

Cover Page

Order ID : Q1872

Project ID : NJ Soil PT

Client : Alliance Technical Group, LLC - Newark

Lab Sample Number

Q1872-01
Q1872-02
Q1872-03
Q1872-04
Q1872-05
Q1872-06
Q1872-07
Q1872-08
Q1872-09
Q1872-10
Q1872-11
Q1872-12
Q1872-13
Q1872-14
Q1872-15
Q1872-16
Q1872-17
Q1872-18
Q1872-19
Q1872-20
Q1872-21
Q1872-22
Q1872-23
Q1872-24
Q1872-25

Client Sample Number

HW0425-PT-AN-SOIL
HW0425-PT-CORR-SOIL
HW0425-PT-CN-SOIL
HW0425-PT-CN-SOIL
HW0425-PT-FP-SOIL
HW0425-PT-CR6-SOIL
HW0425-PT-NUT-SOIL
HW0425-PT-NUT-SOIL
HW0425-PT-OGR-SOIL
HW0425-PT-MET-SOIL
HW0425-PT-BNA-SOIL
HW0425-PT-TRIAZINE-SOIL
HW0425-PT-PAH-SOIL
HW0425-PT-DIES-SOIL
HW0425-PT-GAS-SOIL
HW0425-PT-NJEPH-SOIL
HW0425-PT-HERB-SOIL
HW0425-PT-PCB-SOIL
HW0425-PT-PCBO-SOIL
HW0425-PT-PEST-SOIL
HW0425-PT-CHLR-SOIL
HW0425-PT-TXP-SOIL
HW0425-PT-VOA-SOIL
HW0425-PT-SOL-SOIL
HW0425-PT-NO2-SOIL

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: 5/28/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012



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

CASE NARRATIVE

Alliance Technical Group, LLC - Newark

Project Name: NJ Soil PT

Project # N/A

Order ID # Q1872

Test Name: SVOCMS Group3

A. Number of Samples and Date of Receipt:

24 Solid samples were received on 04/24/2025.

1 Solid sample was received on 04/28/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, Anions Group2, Corrosivity, Cyanide, Diesel Range Organics, EPH, Flash Point, Gasoline Range Organics, Herbicide Group1, Hexavalent Chromium, Mercury, Metals Group3, Metals ICP-Group1, Oil and Grease, PCB, PESTICIDE Group1, PESTICIDE Group2, PESTICIDE Group3, Phosphorus, Total, SVOCMS Group1, SVOCMS Group2, SVOCMS Group3, SVOCMS Group4, SVOCMS Group5, TKN, TOC, TS and VOCMS Group1. This data package contains results for SVOCMS Group3.

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 Group3 was based on method 8270-Modified and extraction was done based on method 3541.

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 recoveries met the requirements for all compounds.

The MSD recoveries met the acceptable requirements.

The RPD met criteria.

The Blank Spike met requirements for all samples.

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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

Sample HW0425-PT-PAH-SOIL was diluted due to high concentration.



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E. Additional Comments:

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

The soil samples results are based on a dry weight basis.

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

F. Manual Integration Comments:

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

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

Signature_____

DATA REPORTING QUALIFIERS- ORGANIC

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

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

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

ORDER ID: Q1872

MATRIX: Solid

METHOD: 8270-Modified/3541

		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 Blank Spike 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:			

ADDITIONAL COMMENTS:

Sample HW0425-PT-PAH-SOIL 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.

The soil samples results are based on a dry weight basis.

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 #: Q1872

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 05/28/2025

LAB CHRONICLE

OrderID:	Q1872	OrderDate:	4/24/2025 1:26:50 PM
Client:	Alliance Technical Group, LLC - Newark	Project:	NJ Soil PT
Contact:	Mohammad Ahmed	Location:	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1872-11	HW0425-PT-BNA-SOIL	SOIL			04/21/25			04/24/25
	L		SVOCMS Group1	8270E		05/08/25	05/14/25	
			SVOCMS Group2	8270-Modified		05/08/25	05/13/25	
Q1872-11DL	HW0425-PT-BNA-SOIL	SOIL			04/21/25			04/24/25
	LDL		SVOCMS Group1	8270E		05/08/25	05/14/25	
			SVOCMS Group2	8270-Modified		05/08/25	05/13/25	
Q1872-12	HW0425-PT-TRIAZIN	SOIL			04/21/25			04/24/25
	E-SOIL		SVOCMS Group4	8270E		05/08/25	05/14/25	
			SVOCMS Group5	8270-Modified		05/08/25	05/13/25	
Q1872-13	HW0425-PT-PAH-SOIL	SOIL			04/21/25			04/24/25
	L		SVOCMS Group3	8270-Modified		05/08/25	05/14/25	
Q1872-13DL	HW0425-PT-PAH-SOIL	SOIL			04/21/25			04/24/25
	LDL		SVOCMS Group3	8270-Modified		05/08/25	05/14/25	

Hit Summary Sheet SW-846

SDG No.: Q1872

Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : HW0425-PT-PAH-SOIL								
Q1872-13	HW0425-PT-PAH-SOIL	SOIL	Naphthalene	90.700		1.2	3.3	ug/Kg
Q1872-13	HW0425-PT-PAH-SOIL	SOIL	2-Methylnaphthalene	220.000	E	1.2	3.3	ug/Kg
Q1872-13	HW0425-PT-PAH-SOIL	SOIL	Acenaphthylene	480.000	E	1.1	3.3	ug/Kg
Q1872-13	HW0425-PT-PAH-SOIL	SOIL	Acenaphthene	320.000	E	1.1	3.3	ug/Kg
Q1872-13	HW0425-PT-PAH-SOIL	SOIL	Fluorene	190.000	E	1.1	3.3	ug/Kg
Q1872-13	HW0425-PT-PAH-SOIL	SOIL	Phenanthrene	91.400		1.2	3.3	ug/Kg
Q1872-13	HW0425-PT-PAH-SOIL	SOIL	Anthracene	96.100		1.2	3.3	ug/Kg
Q1872-13	HW0425-PT-PAH-SOIL	SOIL	Fluoranthene	160.000		1.2	3.3	ug/Kg
Q1872-13	HW0425-PT-PAH-SOIL	SOIL	Pyrene	240.000	E	1.1	3.3	ug/Kg
Q1872-13	HW0425-PT-PAH-SOIL	SOIL	Benzo(a)anthracene	42.700		1.3	3.3	ug/Kg
Q1872-13	HW0425-PT-PAH-SOIL	SOIL	Chrysene	250.000	E	1.4	3.3	ug/Kg
Q1872-13	HW0425-PT-PAH-SOIL	SOIL	Benzo(b)fluoranthene	170.000	E	1.6	3.3	ug/Kg
Q1872-13	HW0425-PT-PAH-SOIL	SOIL	Benzo(k)fluoranthene	160.000		1.8	3.3	ug/Kg
Q1872-13	HW0425-PT-PAH-SOIL	SOIL	Benzo(a)pyrene	190.000	E	1.4	3.3	ug/Kg
Q1872-13	HW0425-PT-PAH-SOIL	SOIL	Indeno(1,2,3-cd)pyrene	120.000		1.8	3.3	ug/Kg
Q1872-13	HW0425-PT-PAH-SOIL	SOIL	Dibenzo(a,h)anthracene	220.000	E	1.8	3.3	ug/Kg
Q1872-13	HW0425-PT-PAH-SOIL	SOIL	Benzo(g,h,i)perylene	67.200		1.7	3.3	ug/Kg

Total Svoc : 3,108.10

Total Concentration: 3,108.10

Client ID : HW0425-PT-PAH-SOILDL

Q1872-13DL	HW0425-PT-PAH-SOILI	SOIL	Naphthalene	91.900	D	11.5	32.8	ug/Kg
Q1872-13DL	HW0425-PT-PAH-SOILI	SOIL	2-Methylnaphthalene	210.000	D	11.8	32.8	ug/Kg
Q1872-13DL	HW0425-PT-PAH-SOILI	SOIL	Acenaphthylene	450.000	D	10.7	32.8	ug/Kg
Q1872-13DL	HW0425-PT-PAH-SOILI	SOIL	Acenaphthene	320.000	D	11.1	32.8	ug/Kg
Q1872-13DL	HW0425-PT-PAH-SOILI	SOIL	Fluorene	180.000	D	11.2	32.8	ug/Kg
Q1872-13DL	HW0425-PT-PAH-SOILI	SOIL	Phenanthrene	90.200	D	11.5	32.8	ug/Kg
Q1872-13DL	HW0425-PT-PAH-SOILI	SOIL	Anthracene	85.900	D	12.1	32.8	ug/Kg
Q1872-13DL	HW0425-PT-PAH-SOILI	SOIL	Fluoranthene	140.000	D	11.8	32.8	ug/Kg
Q1872-13DL	HW0425-PT-PAH-SOILI	SOIL	Pyrene	250.000	D	10.7	32.8	ug/Kg
Q1872-13DL	HW0425-PT-PAH-SOILI	SOIL	Benzo(a)anthracene	41.100	D	12.8	32.8	ug/Kg
Q1872-13DL	HW0425-PT-PAH-SOILI	SOIL	Chrysene	250.000	D	13.6	32.8	ug/Kg
Q1872-13DL	HW0425-PT-PAH-SOILI	SOIL	Benzo(b)fluoranthene	170.000	D	15.7	32.8	ug/Kg
Q1872-13DL	HW0425-PT-PAH-SOILI	SOIL	Benzo(k)fluoranthene	170.000	D	18.3	32.8	ug/Kg
Q1872-13DL	HW0425-PT-PAH-SOILI	SOIL	Benzo(a)pyrene	200.000	D	14.2	32.8	ug/Kg
Q1872-13DL	HW0425-PT-PAH-SOILI	SOIL	Indeno(1,2,3-cd)pyrene	120.000	D	17.7	32.8	ug/Kg
Q1872-13DL	HW0425-PT-PAH-SOILI	SOIL	Dibenzo(a,h)anthracene	220.000	D	17.9	32.8	ug/Kg
Q1872-13DL	HW0425-PT-PAH-SOILI	SOIL	Benzo(g,h,i)perylene	68.700	D	16.8	32.8	ug/Kg



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

Hit Summary Sheet
SW-846

SDG No.: Q1872
Client: Alliance Technical Group, LLC - Newark

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
			Total Svoc :		3,057.80			
			Total Concentration:		3,057.80			



QC SUMMARY

Surrogate Summary

SW-846

SDG No.: Q1872

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
PB167915BL	PB167915BL	2-Methylnaphthalene-d10	0.4	0.32	79		17	161
		Fluoranthene-d10	0.4	0.37	91		23	138
		Nitrobenzene-d5	0.4	0.32	79		33	121
		2-Fluorobiphenyl	0.4	0.31	78		32	121
		Terphenyl-d14	0.4	0.32	80		21	130
PB167915BS	PB167915BS	2-Methylnaphthalene-d10	0.4	0.51	127		17	161
		Fluoranthene-d10	0.4	0.36	90		23	138
		Nitrobenzene-d5	0.4	0.35	88		33	121
		2-Fluorobiphenyl	0.4	0.35	88		32	121
		Terphenyl-d14	0.4	0.36	90		21	130
Q1872-13	HW0425-PT-PAH-SOIL	2-Methylnaphthalene-d10	0.4	0.29	72		17	161
		Fluoranthene-d10	0.4	0.34	86		23	138
		Nitrobenzene-d5	0.4	0.25	63		33	121
		2-Fluorobiphenyl	0.4	0.25	61		32	121
		Terphenyl-d14	0.4	0.31	77		21	130
Q1872-13DL	HW0425-PT-PAH-SOILDL	2-Methylnaphthalene-d10	0.4	0.30	75		17	161
		Fluoranthene-d10	0.4	0.31	77		23	138
		Nitrobenzene-d5	0.4	0.24	60		33	121
		2-Fluorobiphenyl	0.4	0.25	63		32	121
		Terphenyl-d14	0.4	0.34	85		21	130
Q1939-04MS	GB2BMS	2-Methylnaphthalene-d10	0.4	0.22	55		17	161
		Fluoranthene-d10	0.4	0.23	57		23	138
		Nitrobenzene-d5	0.4	0.22	55		33	121
		2-Fluorobiphenyl	0.4	0.19	49		32	121
		Terphenyl-d14	0.4	0.20	50		21	130
Q1939-04MSD	GB2BMSD	2-Methylnaphthalene-d10	0.4	0.23	56		17	161
		Fluoranthene-d10	0.4	0.23	58		23	138
		Nitrobenzene-d5	0.4	0.22	55		33	121
		2-Fluorobiphenyl	0.4	0.19	49		32	121
		Terphenyl-d14	0.4	0.20	50		21	130

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1872

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:	Q1939-04MS	Client Sample ID:	GB2BMS					DataFile:	BN036975.D		
Naphthalene	15.6	0	14.6	ug/Kg	94				37	129	
2-Methylnaphthalene	15.6	2.40	16.4	ug/Kg	90				37	139	
Acenaphthylene	15.6	0	15.3	ug/Kg	98				21	147	
Acenaphthene	15.6	0	15.1	ug/Kg	97				19	141	
Fluorene	15.6	1.60	15.8	ug/Kg	91				10	167	
Phenanthrene	15.6	3.20	17.1	ug/Kg	89				27	146	
Anthracene	15.6	0	15.1	ug/Kg	97				12	166	
Fluoranthene	15.6	0	15.1	ug/Kg	97				20	150	
Pyrene	15.6	0	13.9	ug/Kg	89				10	163	
Benzo(a)anthracene	15.6	0	15.3	ug/Kg	98				10	175	
Chrysene	15.6	0	15.5	ug/Kg	99				32	143	
Benzo(b)fluoranthene	15.6	0	14.1	ug/Kg	90				10	188	
Benzo(k)fluoranthene	15.6	0	14.5	ug/Kg	93				42	122	
Benzo(a)pyrene	15.6	0	15.3	ug/Kg	98				10	175	
Indeno(1,2,3-cd)pyrene	15.6	0	15.1	ug/Kg	97				10	175	
Dibenz(a,h)anthracene	15.6	0	14.5	ug/Kg	93				10	170	
Benzo(g,h,i)perylene	15.6	0	13.6	ug/Kg	87				10	168	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1872

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:	Q1939-04MSD	Client Sample ID:	GB2BMSD					DataFile:	BN036976.D		
Naphthalene	15.6	0	14.5	ug/Kg	93	1			37	129	20
2-Methylnaphthalene	15.6	2.40	16.3	ug/Kg	89	1			37	139	20
Acenaphthylene	15.6	0	15.2	ug/Kg	97	1			21	147	20
Acenaphthene	15.6	0	15.1	ug/Kg	97	0			19	141	20
Fluorene	15.6	1.60	15.6	ug/Kg	90	1			10	167	20
Phenanthrene	15.6	3.20	17.5	ug/Kg	92	3			27	146	20
Anthracene	15.6	0	14.9	ug/Kg	96	1			12	166	20
Fluoranthene	15.6	0	15.2	ug/Kg	97	0			20	150	20
Pyrene	15.6	0	14.0	ug/Kg	90	1			10	163	20
Benzo(a)anthracene	15.6	0	15.4	ug/Kg	99	1			10	175	20
Chrysene	15.6	0	15.5	ug/Kg	99	0			32	143	20
Benzo(b)fluoranthene	15.6	0	14.2	ug/Kg	91	1			10	188	20
Benzo(k)fluoranthene	15.6	0	14.4	ug/Kg	92	1			42	122	20
Benzo(a)pyrene	15.6	0	15.3	ug/Kg	98	0			10	175	20
Indeno(1,2,3-cd)pyrene	15.6	0	14.8	ug/Kg	95	2			10	175	20
Dibenz(a,h)anthracene	15.6	0	14.8	ug/Kg	95	2			10	170	20
Benzo(g,h,i)perylene	15.6	0	13.5	ug/Kg	87	0			10	168	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1872

Client: Alliance Technical Group, LLC - Newark

Analytical Method: 8270-Modified DataFile: BN036979.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits	
								Qual	Low	High	RPD
PB167915BS	Naphthalene	13.3	12.7	ug/Kg	95				63	120	
	2-Methylnaphthalene	13.3	13.0	ug/Kg	98				54	111	
	Acenaphthylene	13.3	12.7	ug/Kg	95				61	110	
	Acenaphthene	13.3	12.3	ug/Kg	92				65	112	
	Fluorene	13.3	12.3	ug/Kg	92				61	115	
	Phenanthrene	13.3	12.3	ug/Kg	92				61	120	
	Anthracene	13.3	12.3	ug/Kg	92				60	115	
	Fluoranthene	13.3	12.3	ug/Kg	92				56	124	
	Pyrene	13.3	12.0	ug/Kg	90				58	125	
	Benzo(a)anthracene	13.3	13.0	ug/Kg	98				45	129	
	Chrysene	13.3	13.0	ug/Kg	98				62	123	
	Benzo(b)fluoranthene	13.3	12.0	ug/Kg	90				47	123	
	Benzo(k)fluoranthene	13.3	12.7	ug/Kg	95				69	123	
	Benzo(a)pyrene	13.3	13.0	ug/Kg	98				53	123	
	Indeno(1,2,3-cd)pyrene	13.3	11.7	ug/Kg	88				62	131	
	Dibenz(a,h)anthracene	13.3	11.7	ug/Kg	88				57	120	
	Benzo(g,h,i)perylene	13.3	10.3	ug/Kg	77				66	121	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167915BL

Lab Name: CHEMTECH

Contract: ALLI03

Lab Code: CHEM Case No.: Q1872

SAS No.: Q1872 SDG NO.: Q1872

Lab File ID: BN036973.D

Lab Sample ID: PB167915BL

Instrument ID: BNA_N

Date Extracted: 05/08/2025

Matrix: (soil/water) SOIL

Date Analyzed: 05/08/2025

Level: (low/med) LOW

Time Analyzed: 15:04

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167915BS	PB167915BS	BN036979.D	05/08/2025
GB2BMS	Q1939-04MS	BN036975.D	05/08/2025
GB2BMDS	Q1939-04MSD	BN036976.D	05/08/2025
HW0425-PT-PAH-SOIL	Q1872-13	BN037013.D	05/14/2025

COMMENTS: _____



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: ALLI03Lab Code: CHEMSAS No.: Q1872 SDG NO.: Q1872Lab File ID: BN036922.DDFTPP Injection Date: 04/28/2025Instrument ID: BNA_NDFTPP Injection Time: 10:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	67.4
68	Less than 2.0% of mass 69	0.8 (1.4) 1
69	Mass 69 relative abundance	58.8
70	Less than 2.0% of mass 69	0.2 (0.4) 1
127	10.0 - 80.0% of mass 198	54.3
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	23.7
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	8.4
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	9.3 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN036923.D	04/28/2025	11:35
SSTDICC0.2	SSTDICC0.2	BN036924.D	04/28/2025	12:11
SSTDICCC0.4	SSTDICCC0.4	BN036925.D	04/28/2025	12:47
SSTDICC0.8	SSTDICC0.8	BN036926.D	04/28/2025	13:24
SSTDICC1.6	SSTDICC1.6	BN036927.D	04/28/2025	14:00
SSTDICC3.2	SSTDICC3.2	BN036928.D	04/28/2025	14:36
SSTDICC5.0	SSTDICC5.0	BN036929.D	04/28/2025	15:12



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: ALLI03Lab Code: CHEMSAS No.: Q1872 SDG NO.: Q1872Lab File ID: BN036971.DDFTPP Injection Date: 05/08/2025Instrument ID: BNA_NDFTPP Injection Time: 13:49

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	71.6
68	Less than 2.0% of mass 69	0.3 (0.4) 1
69	Mass 69 relative abundance	58.3
70	Less than 2.0% of mass 69	0.4 (0.6) 1
127	10.0 - 80.0% of mass 198	52.9
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	6.8
275	10.0 - 60.0% of mass 198	24.9
365	Greater than 1% of mass 198	4.3
441	Present, but less than mass 443	9.2
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	10.7 (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	BN036972.D	05/08/2025	14:28
PB167915BL	PB167915BL	BN036973.D	05/08/2025	15:04
GB2BMS	Q1939-04MS	BN036975.D	05/08/2025	16:16
GB2BMSD	Q1939-04MSD	BN036976.D	05/08/2025	16:53
PB167915BS	PB167915BS	BN036979.D	05/08/2025	18:41



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: ALLI03Lab Code: CHEMSAS No.: Q1872 SDG NO.: Q1872Lab File ID: BN036998.DDFTPP Injection Date: 05/13/2025Instrument ID: BNA_NDFTPP Injection Time: 17:02

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	62.8
68	Less than 2.0% of mass 69	0.8 (1.4) 1
69	Mass 69 relative abundance	55.6
70	Less than 2.0% of mass 69	0.3 (0.6) 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	23.8
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	8.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.4 (19) 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	BN036999.D	05/13/2025	17:41
SSTDICC0.2	SSTDICC0.2	BN037000.D	05/13/2025	18:17
SSTDICCC0.4	SSTDICCC0.4	BN037001.D	05/13/2025	18:53
SSTDICC0.8	SSTDICC0.8	BN037002.D	05/13/2025	19:29
SSTDICC1.6	SSTDICC1.6	BN037003.D	05/13/2025	20:05
SSTDICC3.2	SSTDICC3.2	BN037004.D	05/13/2025	20:41
SSTDICC5.0	SSTDICC5.0	BN037005.D	05/13/2025	21:17



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: ALLI03Lab Code: CHEMSAS No.: Q1872 SDG NO.: Q1872Lab File ID: BN037008.DDFTPP Injection Date: 05/14/2025Instrument ID: BNA_NDFTPP Injection Time: 09:37

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	71.5
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	59.2
70	Less than 2.0% of mass 69	0.4 (0.6) 1
127	10.0 - 80.0% of mass 198	55.7
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	7
275	10.0 - 60.0% of mass 198	24.4
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	8.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	10.2 (18.3) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN037009.D	05/14/2025	10:31
HW0425-PT-PAH-SOIL	Q1872-13	BN037013.D	05/14/2025	14:46
HW0425-PT-PAH-SOILDL	Q1872-13DL	BN037014.D	05/14/2025	15:48

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG NO.: Q1872

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/08/2025

Lab File ID: BN036972.D Time Analyzed: 14:28

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	1755	7.626	4397	10.40	2406	14.28
UPPER LIMIT	3510	8.126	8794	10.904	4812	14.777
LOWER LIMIT	877.5	7.126	2198.5	9.904	1203	13.777
EPA SAMPLE NO.						
01 PB167915BL	1580	7.63	3771	10.42	2026	14.28
02 PB167915BS	2493	7.63	6667	10.40	3772	14.28
03 GB2BMS	1704	7.63	4360	10.40	2385	14.28
04 GB2BMSD	1746	7.63	4442	10.40	2456	14.28

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.: Q1872 SAS No.: Q1872 SDG NO.: Q1872

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/08/2025

Lab File ID: BN036972.D Time Analyzed: 14:28

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	4760	17.021	4148	21.215	3956	23.424
UPPER LIMIT	9520	17.521	8296	21.715	7912	23.924
LOWER LIMIT	2380	16.521	2074	20.715	1978	22.924
EPA SAMPLE NO.						
01 PB167915BL	4065	17.02	3603	21.22	3531	23.42
02 PB167915BS	7644	17.02	6261	21.22	5504	23.42
03 GB2BMS	5063	17.02	4471	21.22	4298	23.42
04 GB2BMSD	5135	17.02	4532	21.22	4358	23.42

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.: Q1872 SAS No.: Q1872 SDG NO.: Q1872

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/14/2025

Lab File ID: BN037009.D Time Analyzed: 10:31

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	1633	7.618	4300	10.39	2444	14.27
UPPER LIMIT	3266	8.118	8600	10.894	4888	14.767
LOWER LIMIT	816.5	7.118	2150	9.894	1222	13.767
EPA SAMPLE NO.						
01 HW0425-PT-PAH-SOIL	2096	7.61	6097	10.39	3702	14.26
02 HW0425-PT-PAH-SOILDL	2217	7.61	6524	10.39	3844	14.27

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.: Q1872 SAS No.: Q1872 SDG NO.: Q1872

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 05/14/2025

Lab File ID: BN037009.D Time Analyzed: 10:31

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	4780	17.009	4137	21.215	4043	23.421
UPPER LIMIT	9560	17.509	8274	21.715	8086	23.921
LOWER LIMIT	2390	16.509	2068.5	20.715	2021.5	22.921
EPA SAMPLE NO.						
01 HW0425-PT-PAH-SOIL	7619	17.01	7847	21.21	7344	23.41
02 HW0425-PT-PAH-SOILDL	7555	17.01	6828	21.21	6318	23.42

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	04/21/25
Project:	NJ Soil PT		Date Received:	04/24/25
Client Sample ID:	HW0425-PT-PAH-SOIL		SDG No.:	Q1872
Lab Sample ID:	Q1872-13		Matrix:	SOIL
Analytical Method:	SW8270ESIM		% Solid:	100
Sample Wt/Vol:	30.15	Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group3
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037013.D	1	05/08/25 10:03	05/14/25 14:46	PB167915

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	90.7		1.20	3.30	ug/Kg
91-57-6	2-Methylnaphthalene	220	E	1.20	3.30	ug/Kg
208-96-8	Acenaphthylene	480	E	1.10	3.30	ug/Kg
83-32-9	Acenaphthene	320	E	1.10	3.30	ug/Kg
86-73-7	Fluorene	190	E	1.10	3.30	ug/Kg
85-01-8	Phenanthrene	91.4		1.20	3.30	ug/Kg
120-12-7	Anthracene	96.1		1.20	3.30	ug/Kg
206-44-0	Fluoranthene	160		1.20	3.30	ug/Kg
129-00-0	Pyrene	240	E	1.10	3.30	ug/Kg
56-55-3	Benzo(a)anthracene	42.7		1.30	3.30	ug/Kg
218-01-9	Chrysene	250	E	1.40	3.30	ug/Kg
205-99-2	Benzo(b)fluoranthene	170	E	1.60	3.30	ug/Kg
207-08-9	Benzo(k)fluoranthene	160		1.80	3.30	ug/Kg
50-32-8	Benzo(a)pyrene	190	E	1.40	3.30	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	120		1.80	3.30	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	220	E	1.80	3.30	ug/Kg
191-24-2	Benzo(g,h,i)perylene	67.2		1.70	3.30	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.29		17 - 161	72%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.34		23 - 138	86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.25		33 - 121	63%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.25		32 - 121	61%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.31		21 - 130	77%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2100		7.611		
1146-65-2	Naphthalene-d8	6100		10.393		
15067-26-2	Acenaphthene-d10	3700		14.256		
1517-22-2	Phenanthrene-d10	7620		17.009		
1719-03-5	Chrysene-d12	7850		21.206		



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Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	04/21/25
Project:	NJ Soil PT		Date Received:	04/24/25
Client Sample ID:	HW0425-PT-PAH-SOIL		SDG No.:	Q1872
Lab Sample ID:	Q1872-13		Matrix:	SOIL
Analytical Method:	SW8270ESIM		% Solid:	100
Sample Wt/Vol:	30.15	Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group3
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037013.D	1	05/08/25 10:03	05/14/25 14:46	PB167915

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1520-96-3	Perylene-d12	7340	23.412			

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\BN051425\
 Data File : BN037013.D
 Acq On : 14 May 2025 14:46
 Operator : RC/JU
 Sample : Q1872-13
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 HW0425-PT-PAH-SOIL

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/15/2025
 Supervised By :Jagrut Upadhyay 05/15/2025

Quant Time: May 14 15:18:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 11:26:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	2096	0.40	ng	0.00
7) Naphthalene-d8	10.393	136	6097	0.40	ng	#-0.01
13) Acenaphthene-d10	14.256	164	3702	0.40	ng	-0.01
19) Phenanthrene-d10	17.009	188	7619	0.40	ng	# 0.00
29) Chrysene-d12	21.206	240	7847	0.40	ng	0.00
35) Perylene-d12	23.412	264	7344	0.40	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	1363	0.25	ng	0.00
5) Phenol-d6	6.788	99	1874	0.27	ng	0.00
8) Nitrobenzene-d5	8.760	82	1682	0.25	ng	-0.01
11) 2-Methylnaphthalene-d10	11.986	152	2460	0.29	ng	-0.01
14) 2,4,6-Tribromophenol	15.755	330	409	0.25	ng	-0.01
15) 2-Fluorobiphenyl	12.878	172	4150	0.24	ng	-0.01
27) Fluoranthene-d10	19.049	212	7139	0.34	ng	0.00
31) Terphenyl-d14	19.653	244	5177	0.31	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.436	128	49280	2.74	ng	97
12) 2-Methylnaphthalene	12.062	142	76389	6.59	ng	99
16) Acenaphthylene	13.978	152	262125	14.55	ng	100
17) Acenaphthene	14.320	154	115342	9.80	ng	98
18) Fluorene	15.314	166	88886	5.75	ng	99
25) Phenanthrene	17.046	178	68599	2.75	ng	100
26) Anthracene	17.145	178	65623	2.90	ng	100
28) Fluoranthene	19.077	202	142969	4.81	ng	99
30) Pyrene	19.440	202	245073	7.30	ng	100
32) Benzo(a)anthracene	21.188	228	38038	1.29	ng	99
33) Chrysene	21.242	228	233087	7.46	ng	98
34) Bis(2-ethylhexyl)phtha...	21.135	149	10564	0.58	ng	99
36) Indeno(1,2,3-cd)pyrene	25.625	276	111106	3.70	ng	# 88
37) Benzo(b)fluoranthene	22.752	252	158909m	5.22	ng	
38) Benzo(k)fluoranthene	22.795	252	147983	4.92	ng	92
39) Benzo(a)pyrene	23.316	252	151426	5.86	ng	# 81
40) Dibenzo(a,h)anthracene	25.637	278	155978	6.68	ng	# 92
41) Benzo(g,h,i)perylene	26.298	276	51432	2.03	ng	98

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

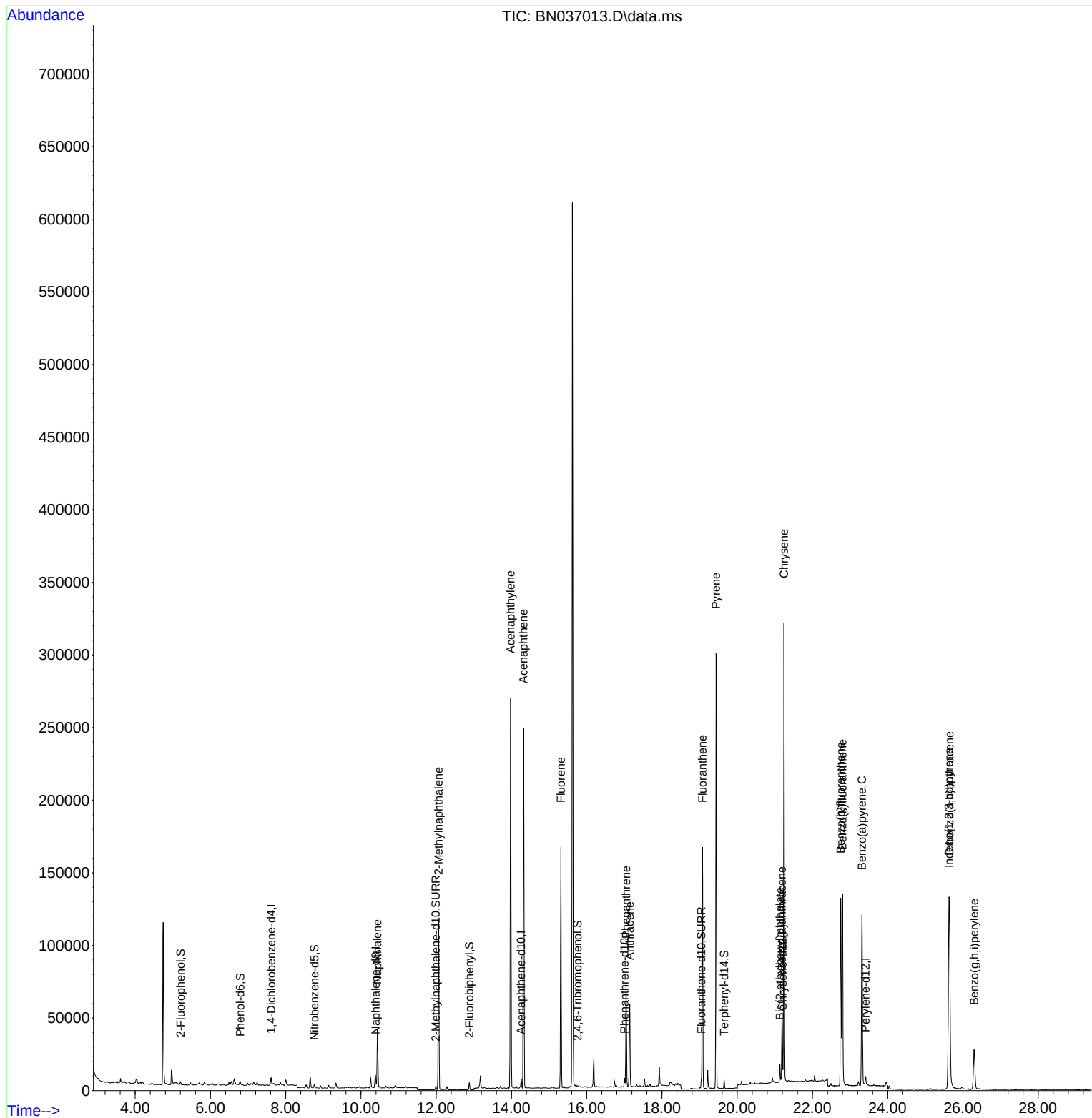
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037013.D
Acq On : 14 May 2025 14:46
Operator : RC/JU
Sample : Q1872-13
Misc :
ALS Vial : 6 Sample Multiplier: 1

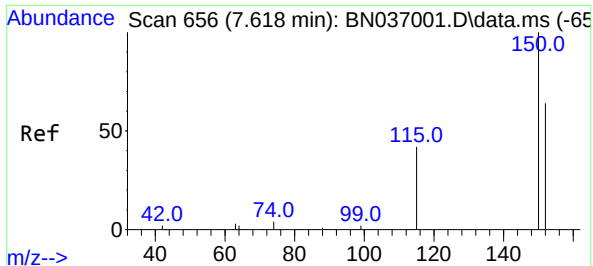
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOIL

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Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

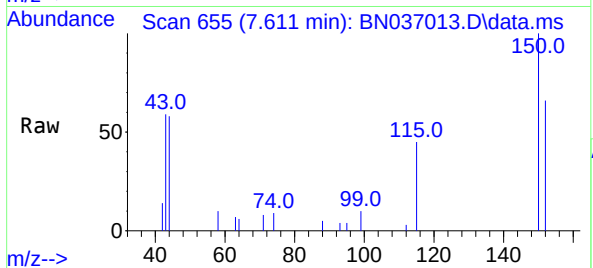
Quant Time: May 14 15:18:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.40 ng
RT: 7.611 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

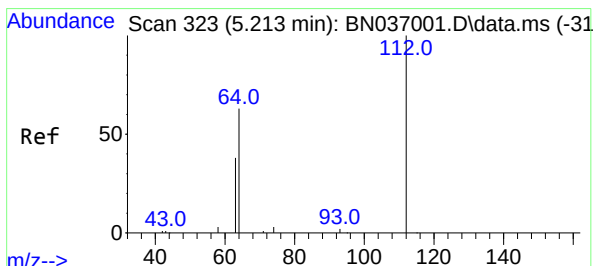
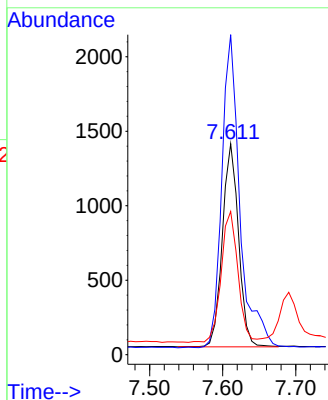
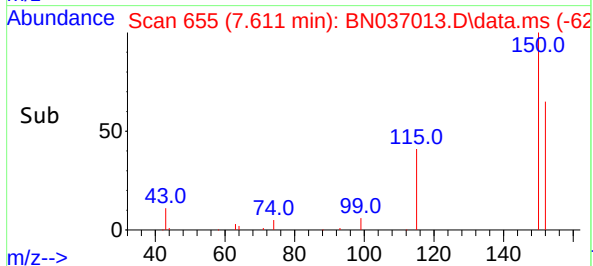
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOIL



Tgt Ion:152 Resp: 2090
Ion Ratio Lower Upper
152 100
150 151.7 123.9 185.9
115 67.9 55.8 83.8

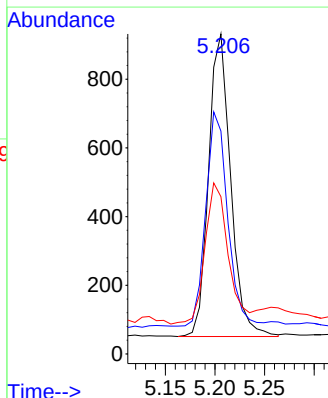
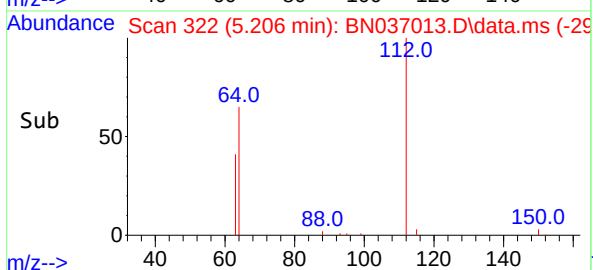
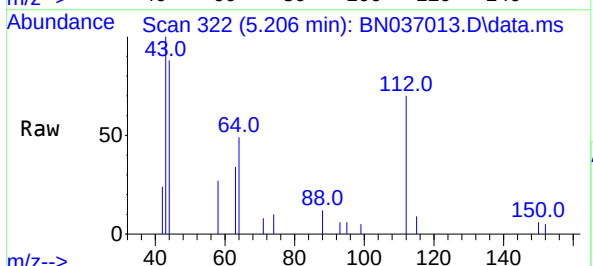
Manual Integrations
APPROVED

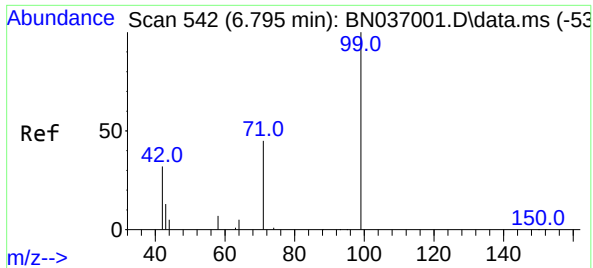
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#4
2-Fluorophenol
Concen: 0.25 ng
RT: 5.206 min Scan# 322
Delta R.T. -0.007 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

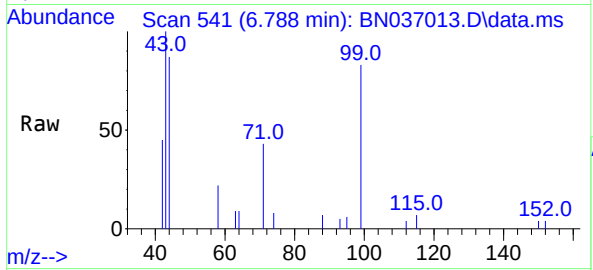
Tgt Ion:112 Resp: 1363
Ion Ratio Lower Upper
112 100
64 70.0 55.7 83.5
63 48.9 34.6 51.8





#5
Phenol-d6
Concen: 0.27 ng
RT: 6.788 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

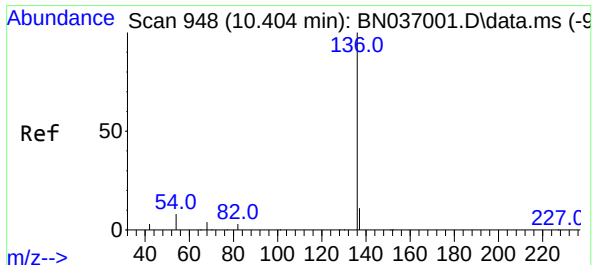
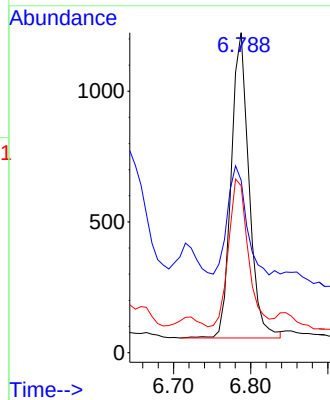
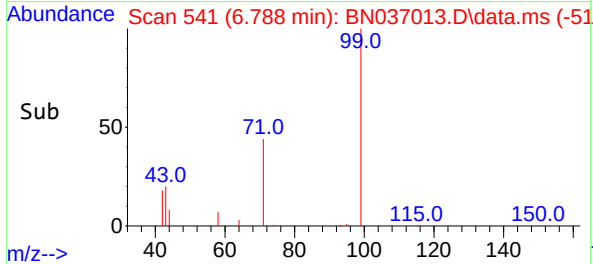
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOIL



Tgt Ion: 99 Resp: 1874
Ion Ratio Lower Upper
99 100
42 37.1 29.3 43.9
71 54.4 35.7 53.5

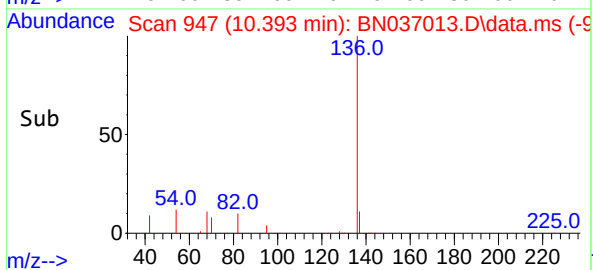
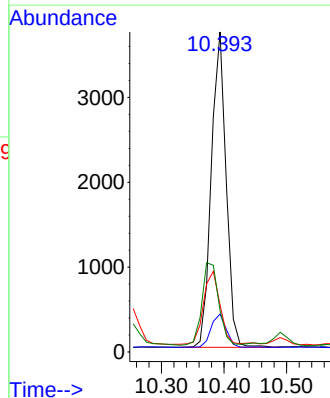
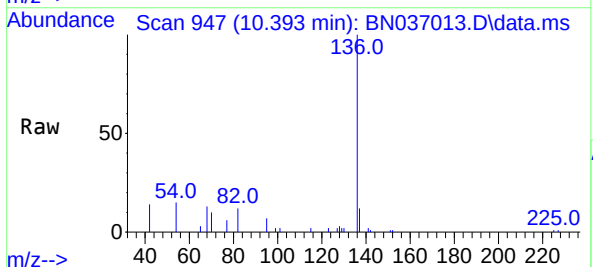
Manual Integrations
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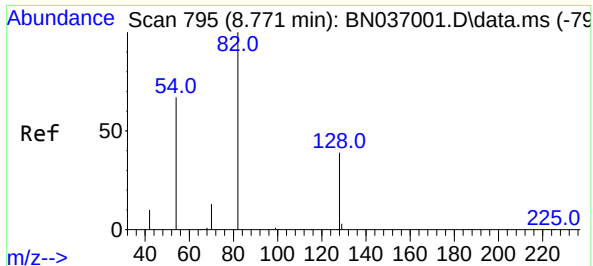
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#7
Naphthalene-d8
Concen: 0.40 ng
RT: 10.393 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

Tgt Ion:136 Resp: 6097
Ion Ratio Lower Upper
136 100
137 11.9 10.4 15.6
54 14.7 8.5 12.7#
68 13.0 5.1 7.7#





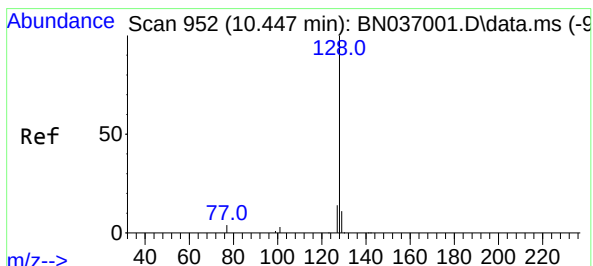
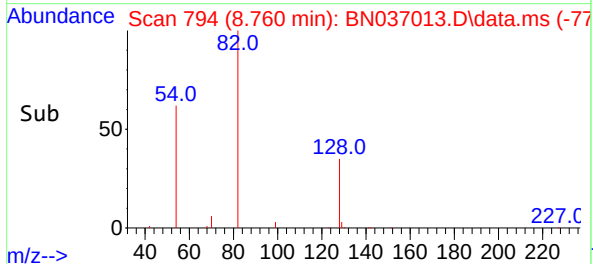
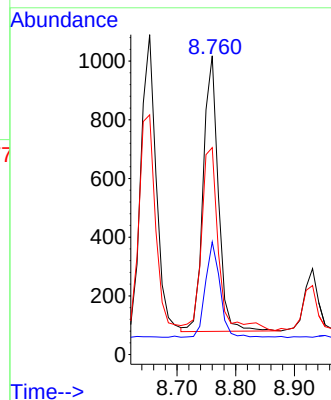
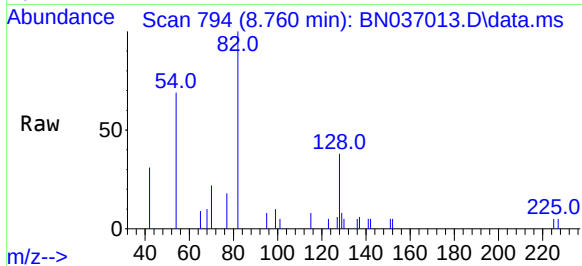
#8
Nitrobenzene-d5
Concen: 0.25 ng
RT: 8.760 min Scan# 795
Delta R.T. -0.011 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOIL

Tgt Ion: 82 Resp: 168
Ion Ratio Lower Upper
82 100
128 37.7 34.0 51.0
54 69.3 55.0 82.4

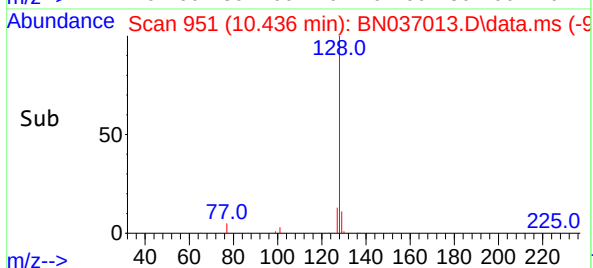
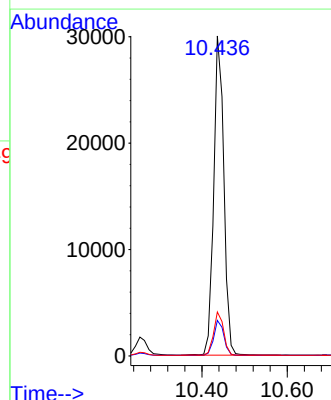
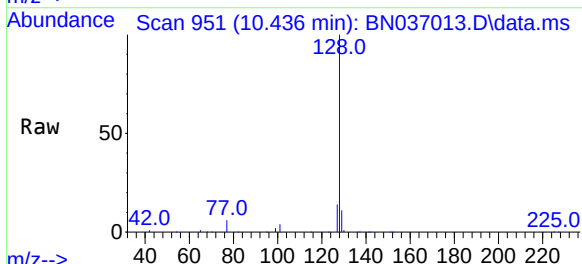
Manual Integrations
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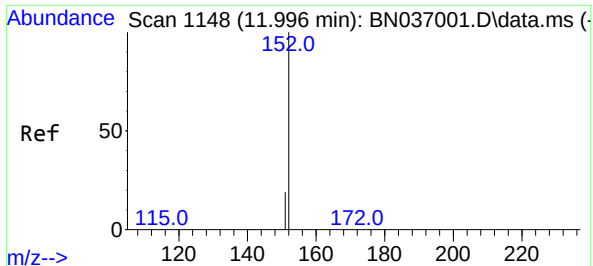
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#9
Naphthalene
Concen: 2.74 ng
RT: 10.436 min Scan# 951
Delta R.T. -0.011 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

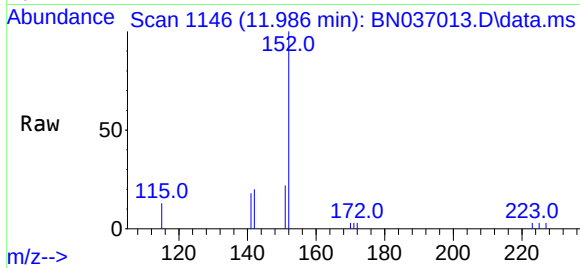
Tgt Ion:128 Resp: 49280
Ion Ratio Lower Upper
128 100
129 11.1 9.7 14.5
127 13.7 12.4 18.6





#11
2-Methylnaphthalene-d10
Concen: 0.29 ng
RT: 11.986 min Scan# 1146
Delta R.T. -0.010 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

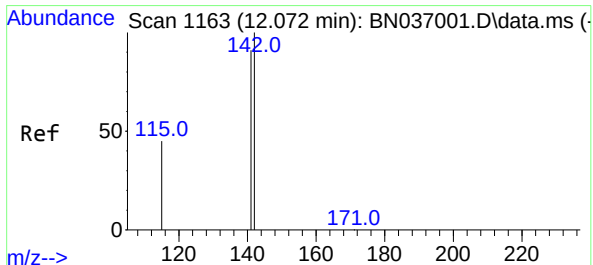
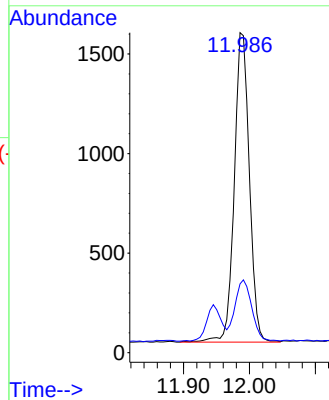
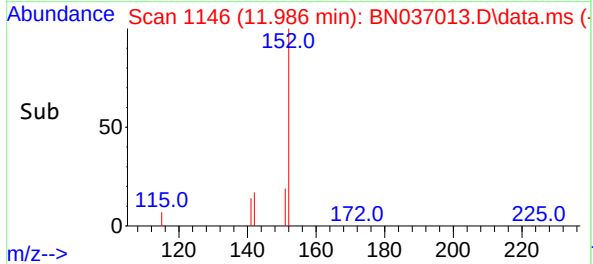
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOIL



Tgt Ion:152 Resp: 2460
Ion Ratio Lower Upper
152 100
151 21.9 17.5 26.3

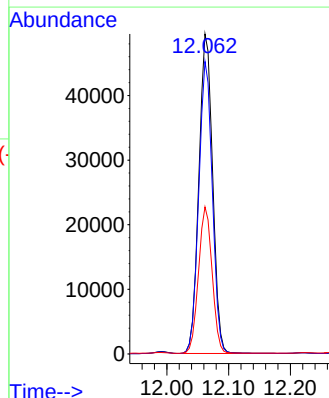
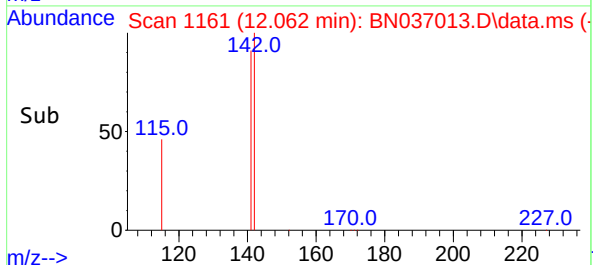
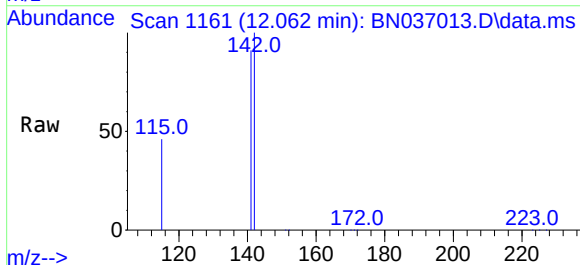
Manual Integrations
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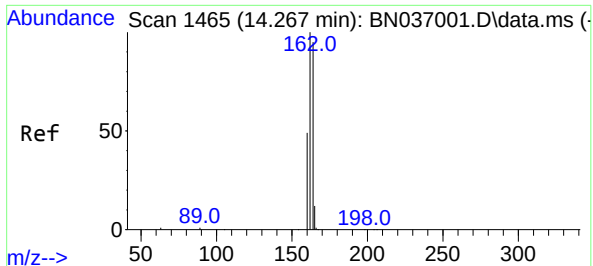
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#12
2-Methylnaphthalene
Concen: 6.59 ng
RT: 12.062 min Scan# 1161
Delta R.T. -0.010 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

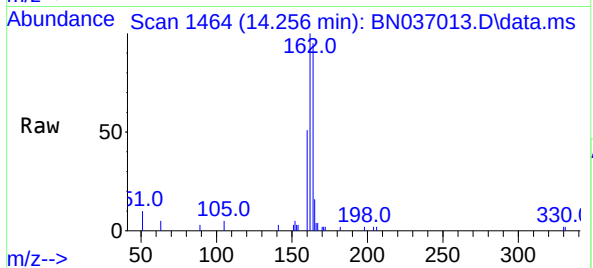
Tgt Ion:142 Resp: 76389
Ion Ratio Lower Upper
142 100
141 91.4 73.3 109.9
115 45.9 38.4 57.6





#13
Acenaphthene-d10
Concen: 0.40 ng
RT: 14.256 min Scan# 1465
Delta R.T. -0.011 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

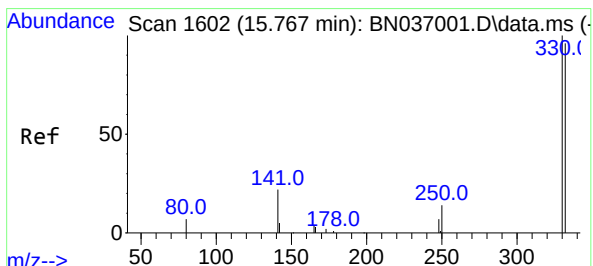
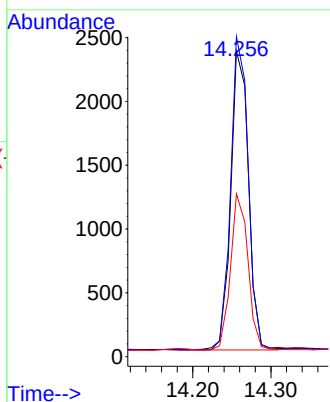
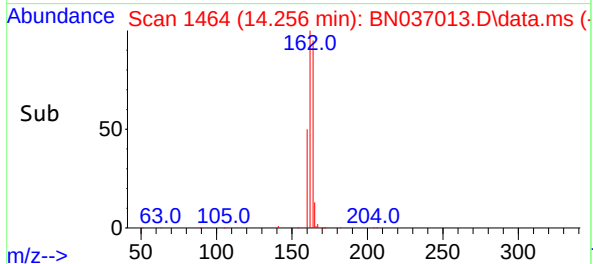
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOIL



Tgt Ion:164 Resp: 370
Ion Ratio Lower Upper
164 100
162 104.7 84.2 126.4
160 53.3 42.6 63.8

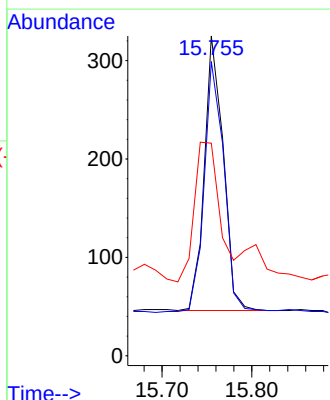
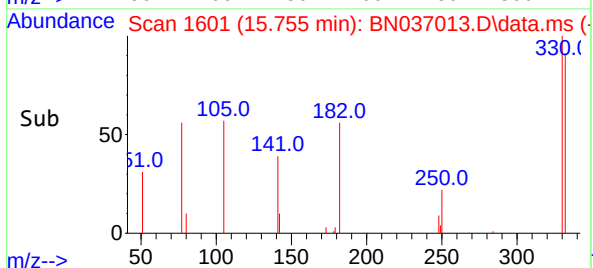
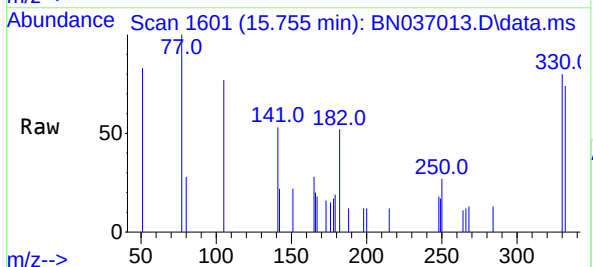
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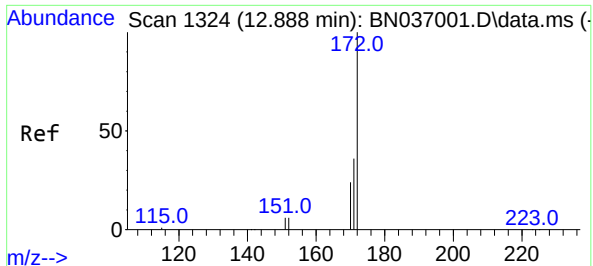
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#14
2,4,6-Tribromophenol
Concen: 0.25 ng
RT: 15.755 min Scan# 1601
Delta R.T. -0.012 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

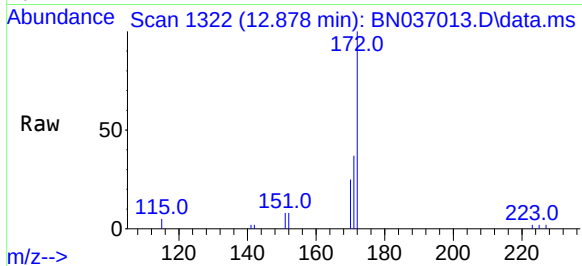
Tgt Ion:330 Resp: 409
Ion Ratio Lower Upper
330 100
332 96.3 73.8 110.8
141 87.5 43.9 65.9#





#15
2-Fluorobiphenyl
Concen: 0.24 ng
RT: 12.878 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

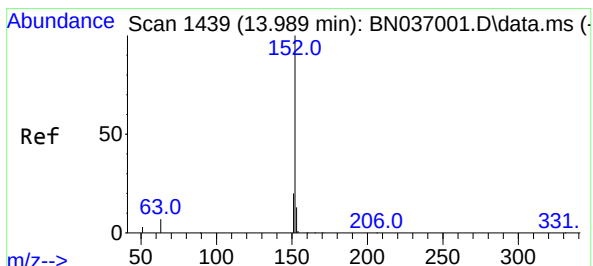
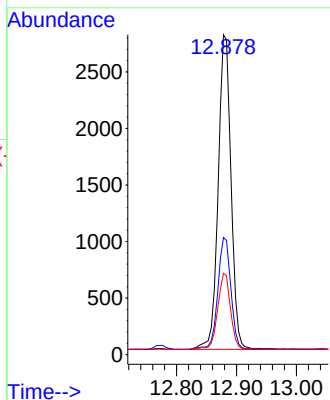
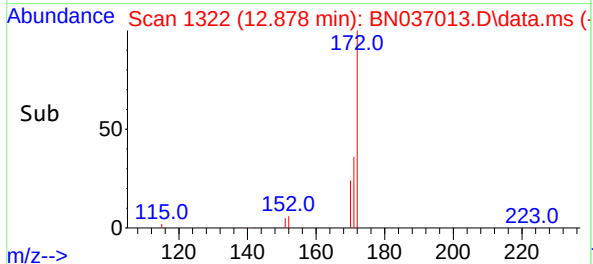
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOIL



Tgt Ion:172 Resp: 4150
Ion Ratio Lower Upper
172 100
171 36.6 29.2 43.8
170 25.5 20.5 30.7

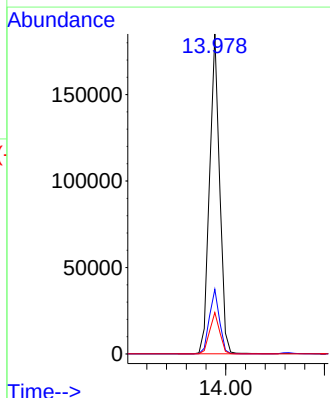
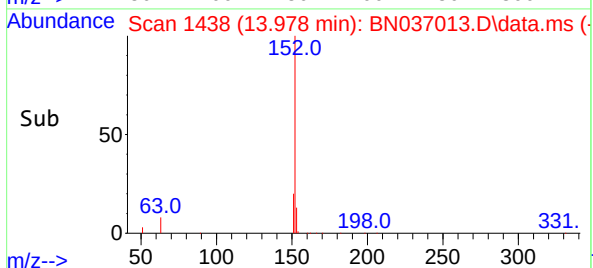
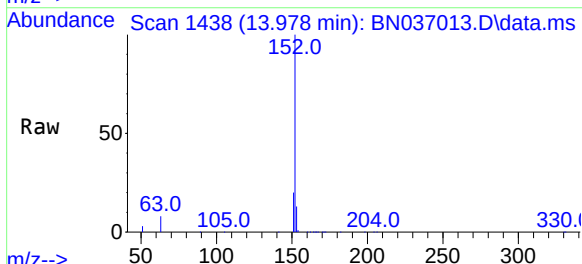
Manual Integrations
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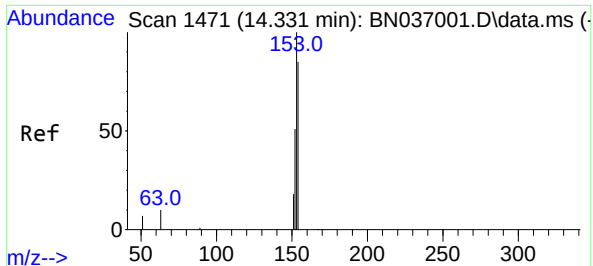
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#16
Acenaphthylene
Concen: 14.55 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.011 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

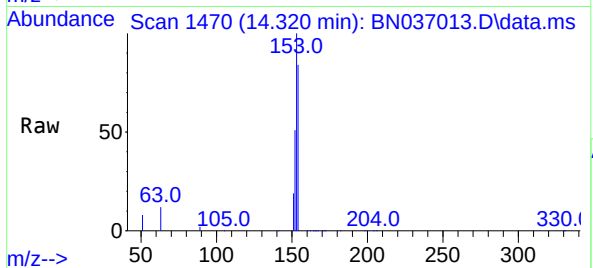
Tgt Ion:152 Resp: 262125
Ion Ratio Lower Upper
152 100
151 20.3 16.1 24.1
153 13.0 10.5 15.7





#17
Acenaphthene
Concen: 9.80 ng
RT: 14.320 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

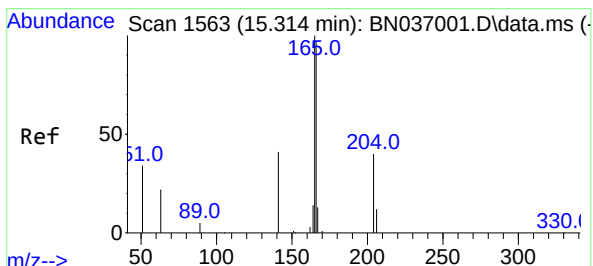
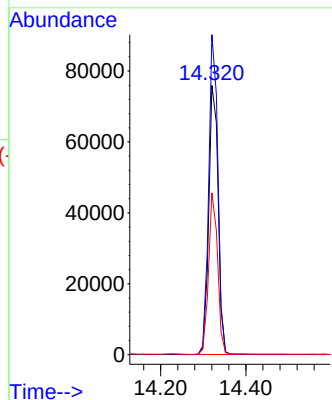
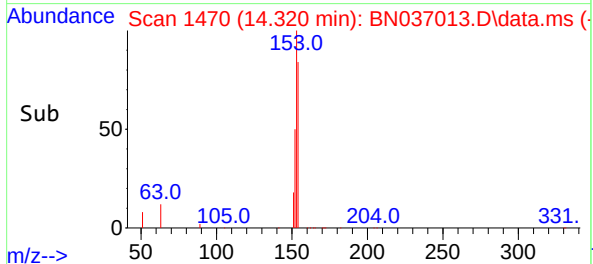
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOIL



Tgt Ion:154 Resp: 11534
Ion Ratio Lower Upper
154 100
153 116.6 94.2 141.4
152 58.1 49.4 74.0

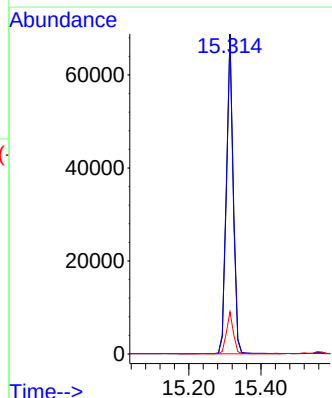
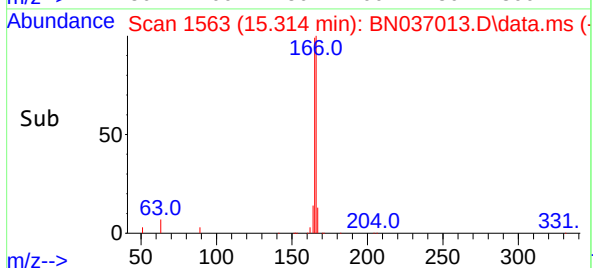
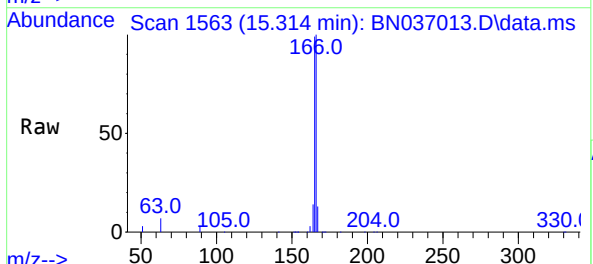
Manual Integrations
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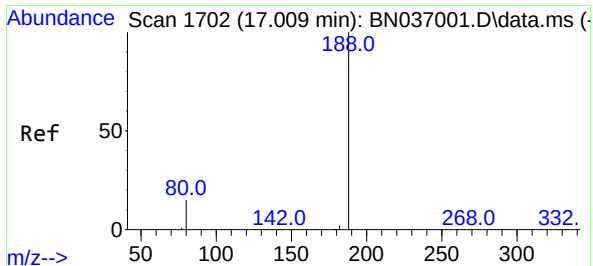
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#18
Fluorene
Concen: 5.75 ng
RT: 15.314 min Scan# 1563
Delta R.T. -0.000 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

Tgt Ion:166 Resp: 88886
Ion Ratio Lower Upper
166 100
165 99.2 80.6 120.8
167 13.2 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.40 ng

RT: 17.009 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037013.D

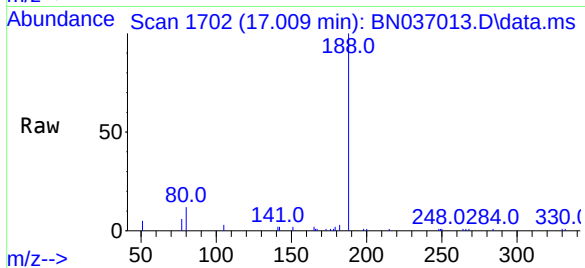
Acq: 14 May 2025 14:46

Instrument :

BNA_N

ClientSampleId :

HW0425-PT-PAH-SOIL



Tgt Ion:188 Resp: 7619

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

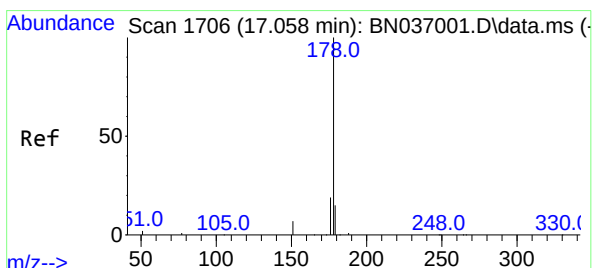
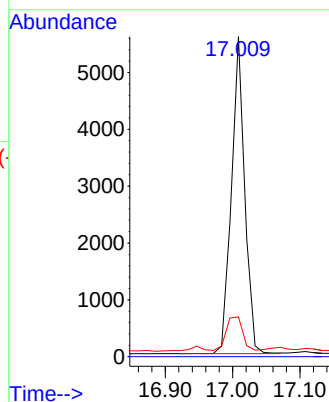
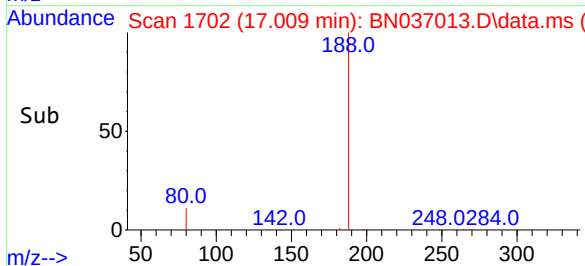
80 12.5 13.4 20.0

Manual Integrations

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Supervised By :Jagrut Upadhyay 05/15/2025



#25

Phenanthrene

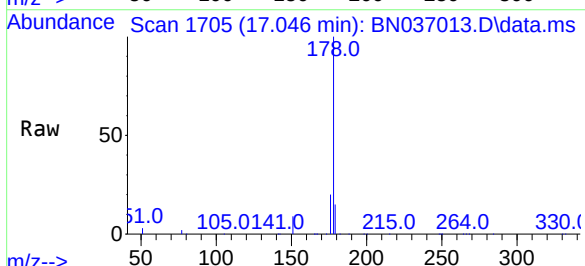
Concen: 2.75 ng

RT: 17.046 min Scan# 1705

Delta R.T. -0.012 min

Lab File: BN037013.D

Acq: 14 May 2025 14:46



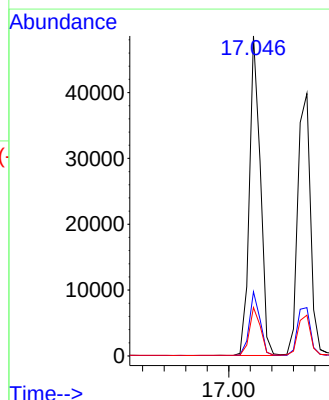
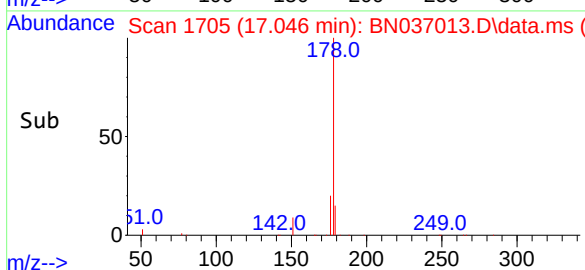
Tgt Ion:178 Resp: 68599

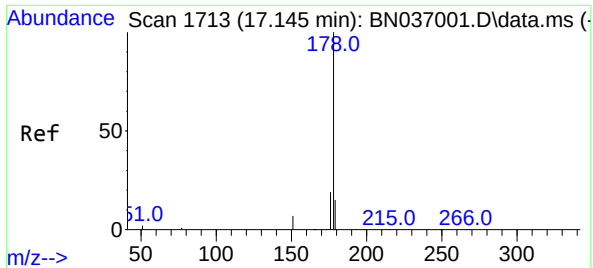
Ion Ratio Lower Upper

178 100

176 19.6 15.7 23.5

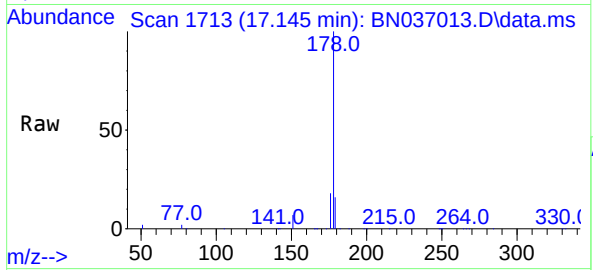
179 15.2 12.2 18.2





#26
Anthracene
Concen: 2.90 ng
RT: 17.145 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

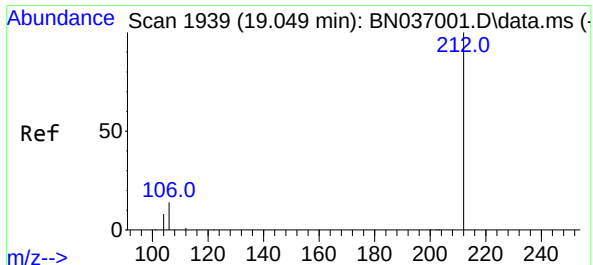
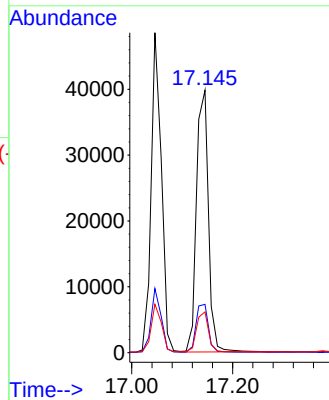
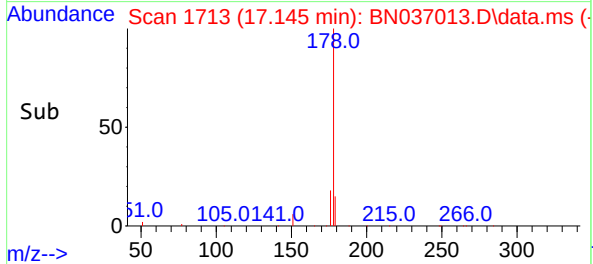
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOIL



Tgt Ion:178 Resp: 6562
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.3 12.3 18.5

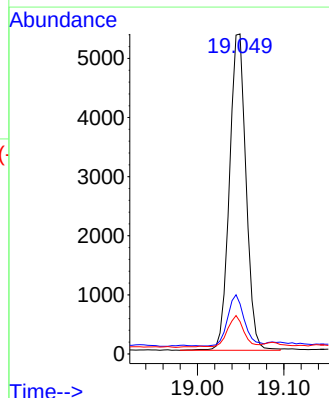
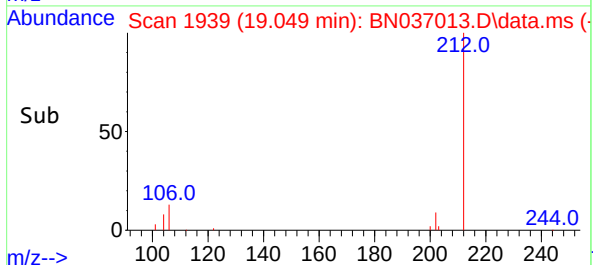
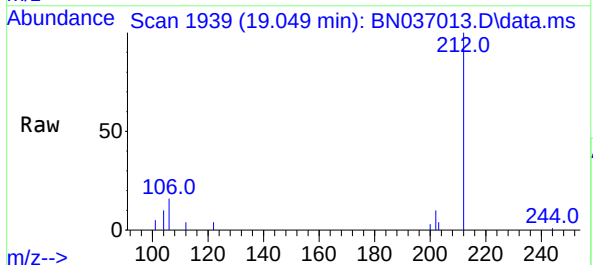
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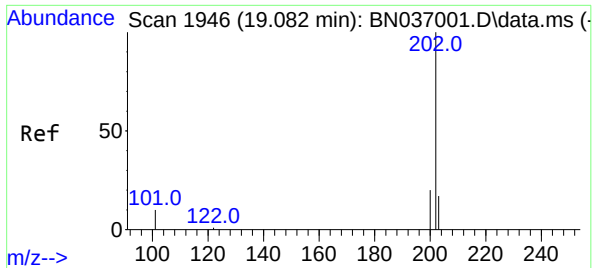
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#27
Fluoranthene-d10
Concen: 0.34 ng
RT: 19.049 min Scan# 1939
Delta R.T. -0.000 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

Tgt Ion:212 Resp: 7139
Ion Ratio Lower Upper
212 100
106 16.3 11.3 16.9
104 9.5 6.7 10.1





#28

Fluoranthene

Concen: 4.81 ng

RT: 19.077 min Scan# 1945

Delta R.T. -0.005 min

Lab File: BN037013.D

Acq: 14 May 2025 14:46

Instrument :

BNA_N

ClientSampleId :

HW0425-PT-PAH-SOIL

Tgt Ion:202 Resp: 142969

Ion Ratio Lower Upper

202 100

101 12.0 8.9 13.3

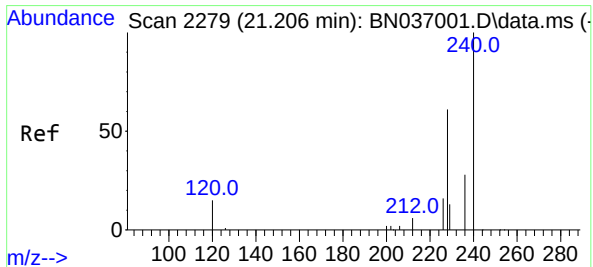
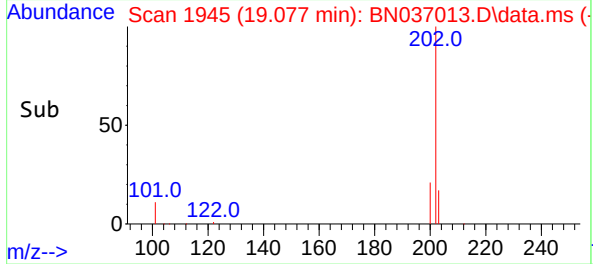
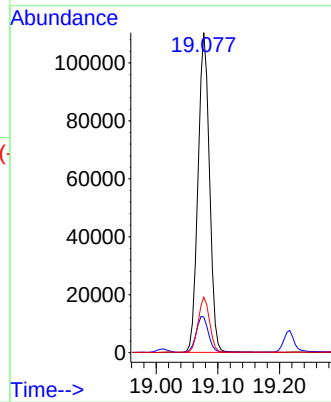
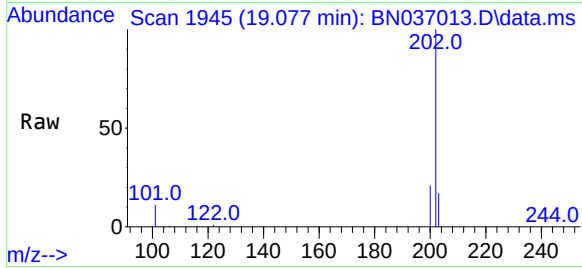
203 17.1 13.8 20.8

Manual Integrations

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Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#29

Chrysene-d12

Concen: 0.40 ng

RT: 21.206 min Scan# 2279

Delta R.T. -0.000 min

Lab File: BN037013.D

Acq: 14 May 2025 14:46

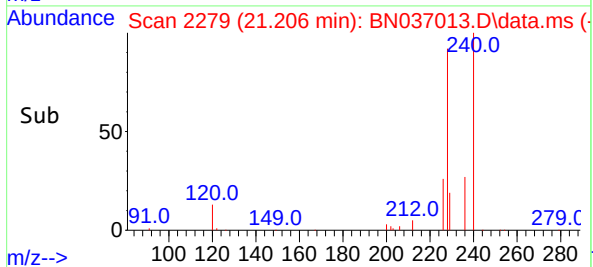
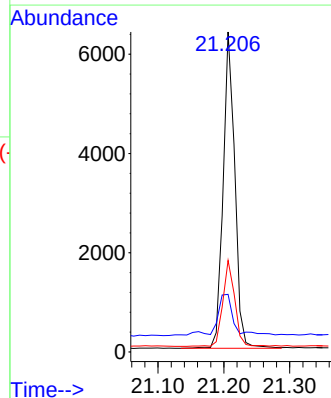
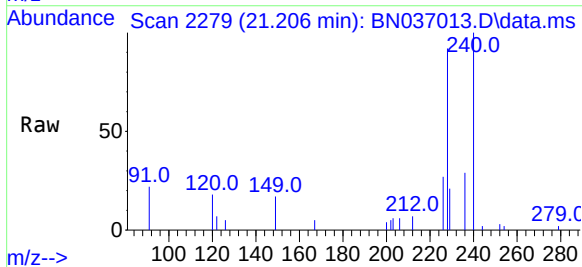
Tgt Ion:240 Resp: 7847

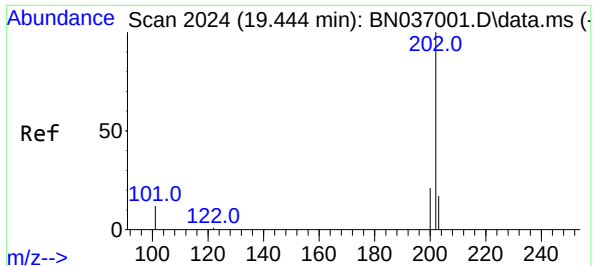
Ion Ratio Lower Upper

240 100

120 18.0 15.1 22.7

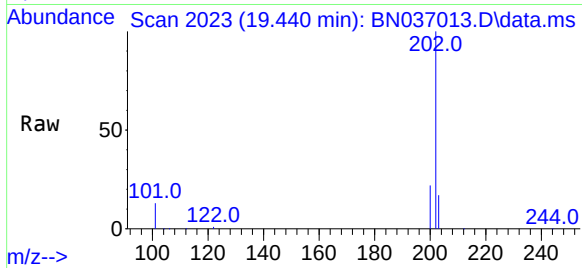
236 28.6 24.0 36.0





#30
Pyrene
Concen: 7.30 ng
RT: 19.440 min Scan# 2024
Delta R.T. -0.005 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

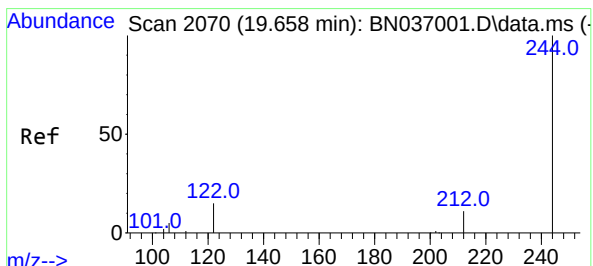
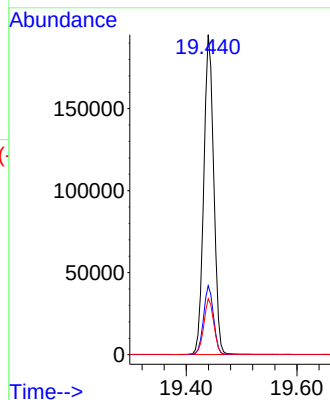
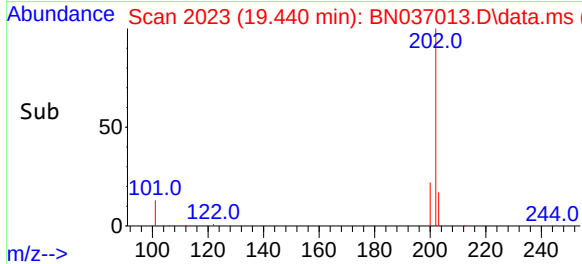
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOIL



Tgt Ion:202 Resp: 24507
Ion Ratio Lower Upper
202 100
200 21.5 17.1 25.7
203 17.5 14.2 21.4

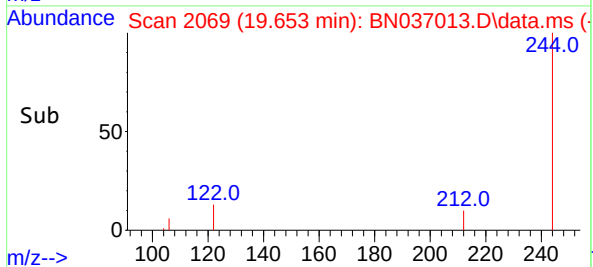
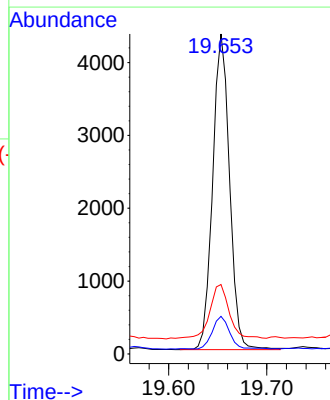
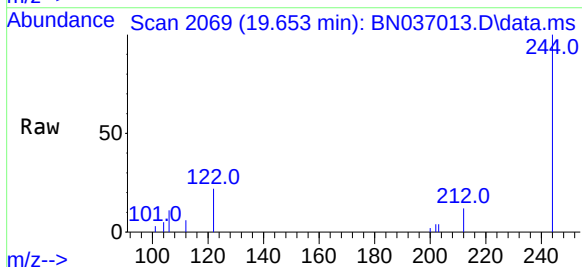
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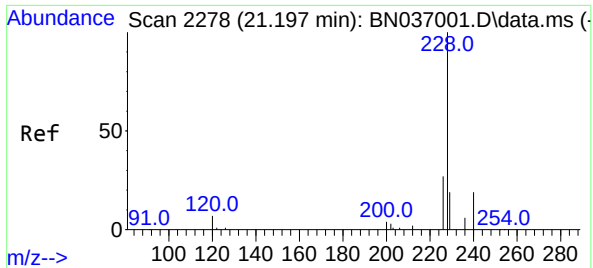
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#31
Terphenyl-d14
Concen: 0.31 ng
RT: 19.653 min Scan# 2069
Delta R.T. -0.005 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

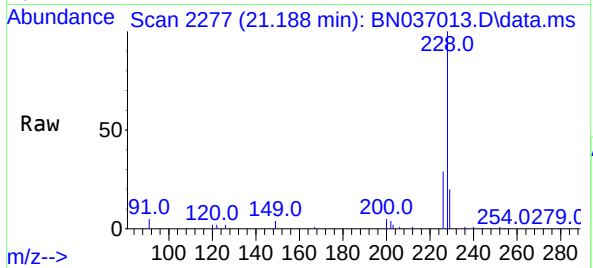
Tgt Ion:244 Resp: 5177
Ion Ratio Lower Upper
244 100
212 11.7 9.7 14.5
122 21.7 13.4 20.0#





#32
Benzo(a)anthracene
Concen: 1.29 ng
RT: 21.188 min Scan# 21188
Delta R.T. -0.009 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

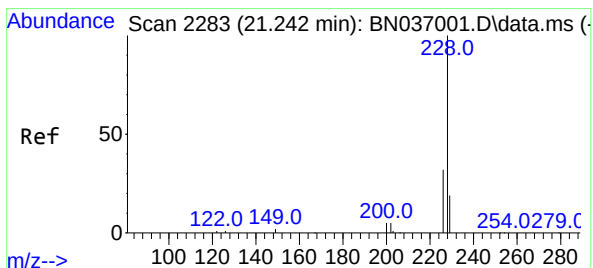
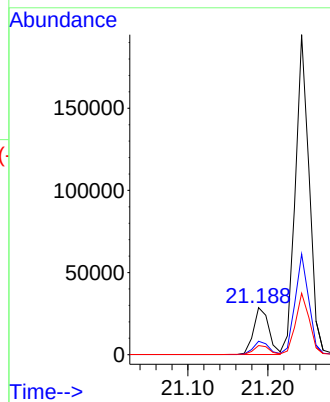
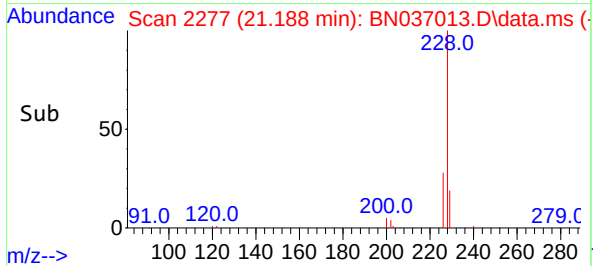
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOIL



Tgt Ion:228 Resp: 38038
Ion Ratio Lower Upper
228 100
226 28.7 22.2 33.4
229 19.6 16.0 24.0

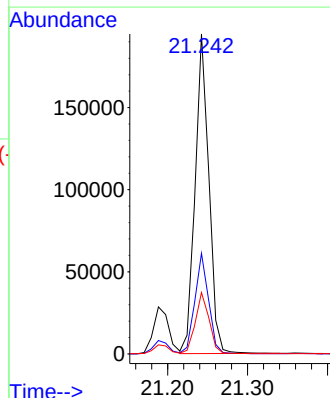
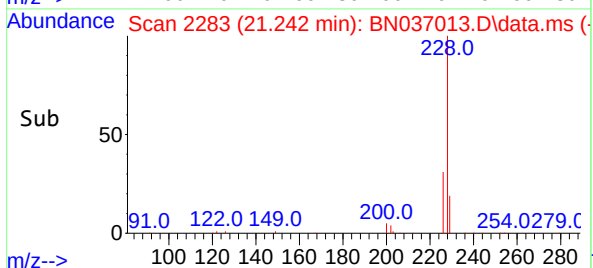
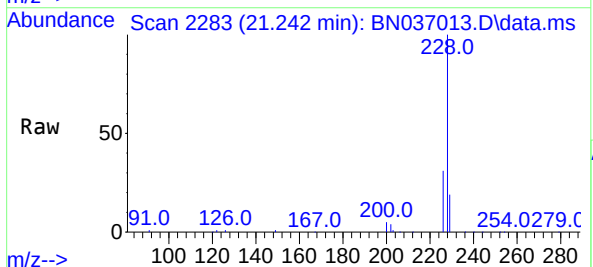
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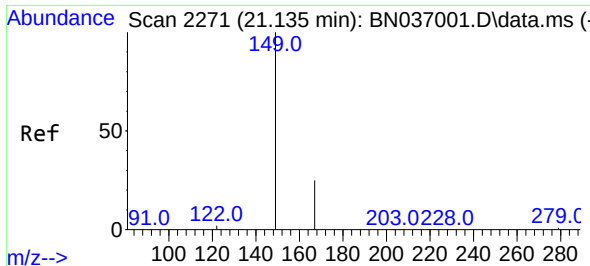
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#33
Chrysene
Concen: 7.46 ng
RT: 21.242 min Scan# 2283
Delta R.T. -0.000 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

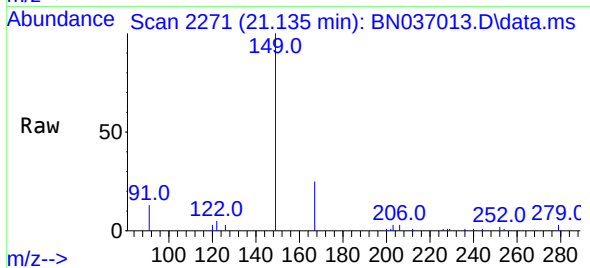
Tgt Ion:228 Resp: 233087
Ion Ratio Lower Upper
228 100
226 31.4 26.3 39.5
229 19.2 16.2 24.2





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.58 ng
RT: 21.135 min Scan# 211
Delta R.T. -0.000 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

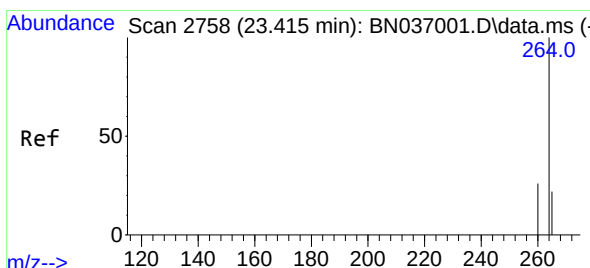
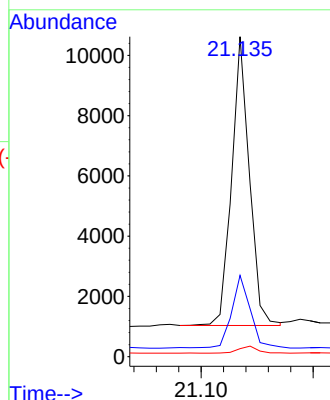
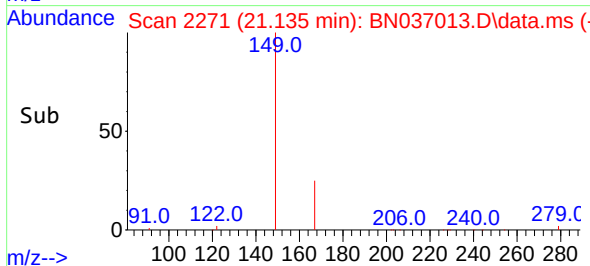
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOIL



Tgt Ion:149 Resp: 10564
Ion Ratio Lower Upper
149 100
167 26.2 20.6 30.8
279 2.6 2.6 3.8

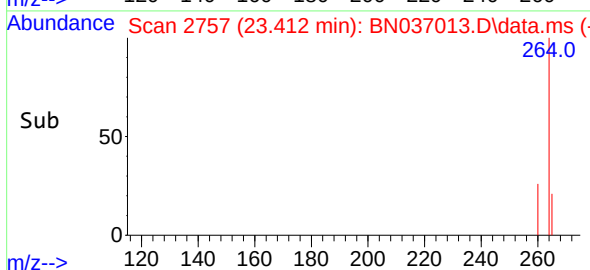
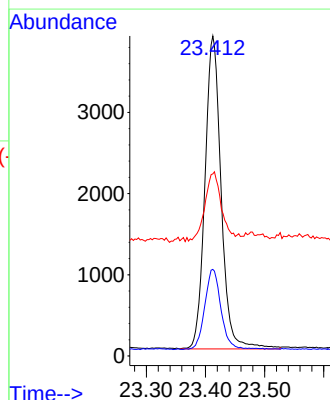
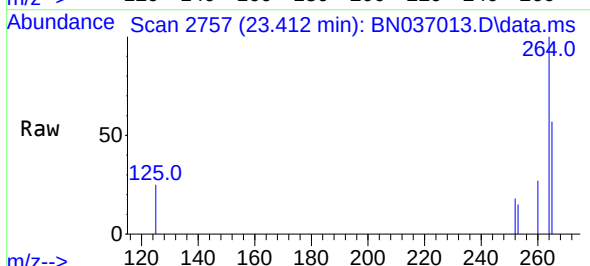
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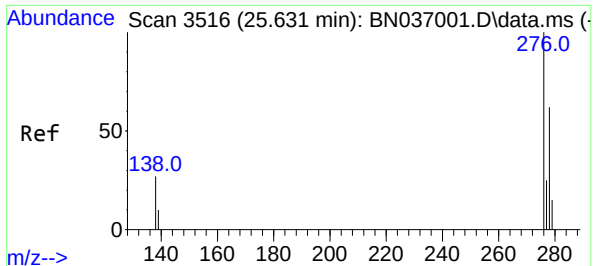
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#35
Perylene-d12
Concen: 0.40 ng
RT: 23.412 min Scan# 2757
Delta R.T. -0.003 min
Lab File: BN037013.D
Acq: 14 May 2025 14:46

Tgt Ion:264 Resp: 7344
Ion Ratio Lower Upper
264 100
260 27.0 21.9 32.9
265 56.9 51.6 77.4





#36

Indeno(1,2,3-cd)pyrene

Concen: 3.70 ng

RT: 25.625 min Scan# 3514

Delta R.T. -0.006 min

Lab File: BN037013.D

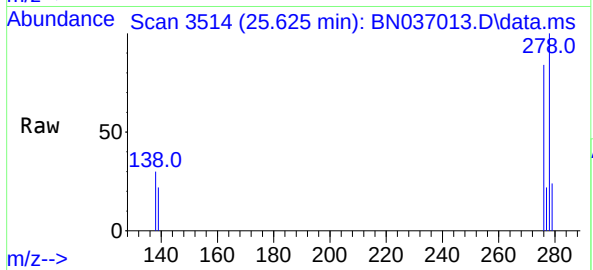
Acq: 14 May 2025 14:46

Instrument :

BNA_N

ClientSampleId :

HW0425-PT-PAH-SOIL



Tgt Ion:276 Resp: 111100

Ion Ratio Lower Upper

276 100

138 38.8 22.7 34.1

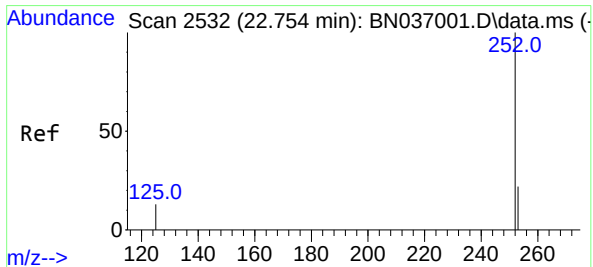
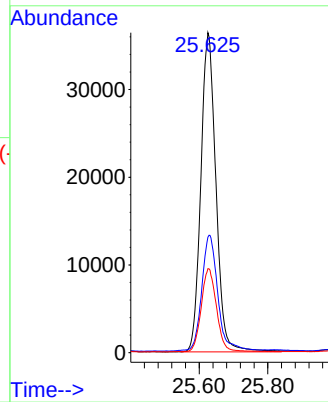
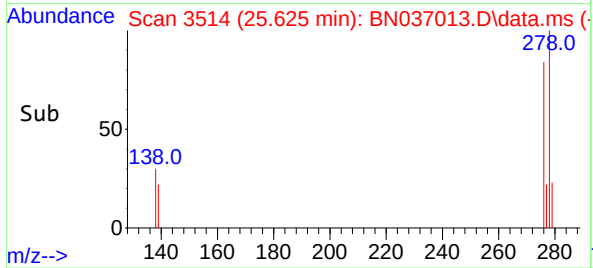
277 26.2 20.0 30.0

Manual Integrations

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Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#37

Benzo(b)fluoranthene

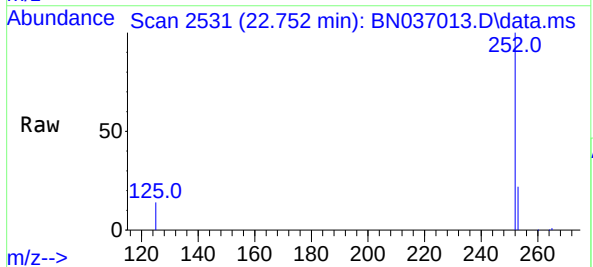
Concen: 5.22 ng m

RT: 22.752 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037013.D

Acq: 14 May 2025 14:46



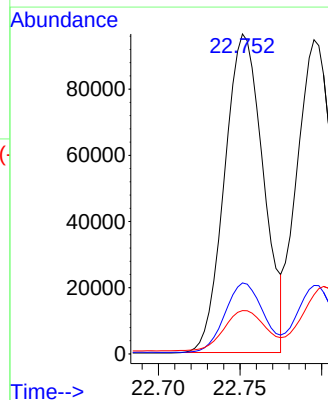
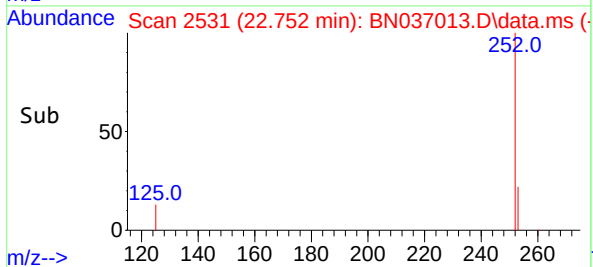
Tgt Ion:252 Resp: 158909

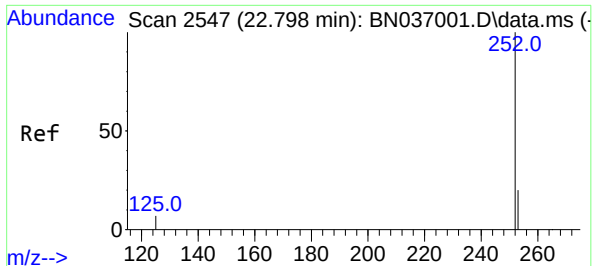
Ion Ratio Lower Upper

252 100

253 22.2 21.8 32.6

125 13.6 14.6 21.8





#38

Benzo(k)fluoranthene

Concen: 4.92 ng

RT: 22.795 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037013.D

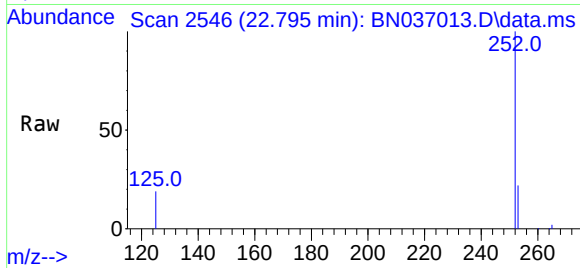
Acq: 14 May 2025 14:46

Instrument :

BNA_N

ClientSampleId :

HW0425-PT-PAH-SOIL



Tgt Ion:252 Resp: 14798

Ion Ratio Lower Upper

252 100

253 21.8 21.4 32.2

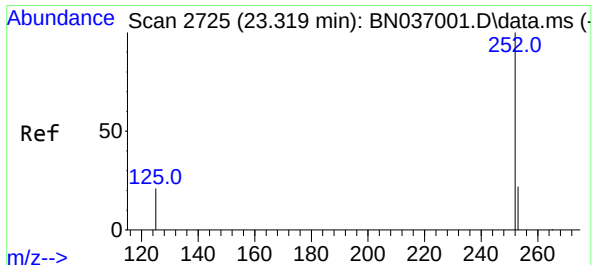
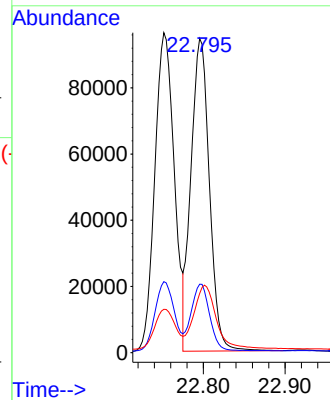
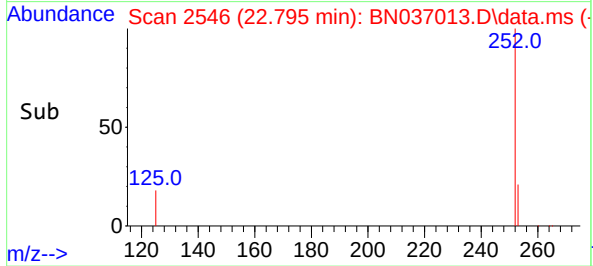
125 18.8 13.0 19.4

Manual Integrations

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Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#39

Benzo(a)pyrene

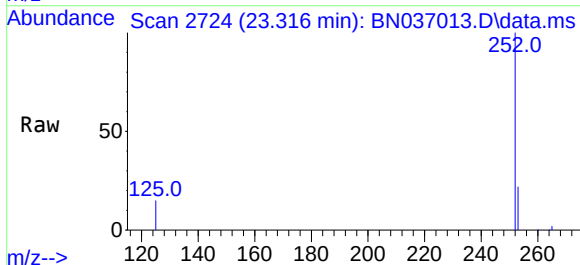
Concen: 5.86 ng

RT: 23.316 min Scan# 2724

Delta R.T. -0.003 min

Lab File: BN037013.D

Acq: 14 May 2025 14:46



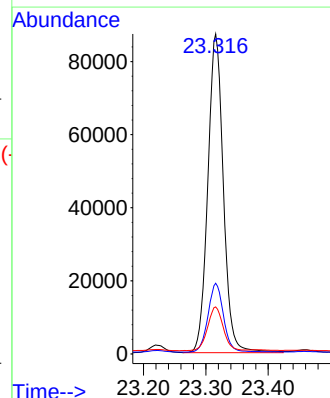
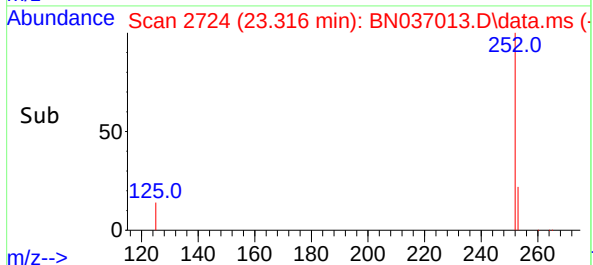
Tgt Ion:252 Resp: 151426

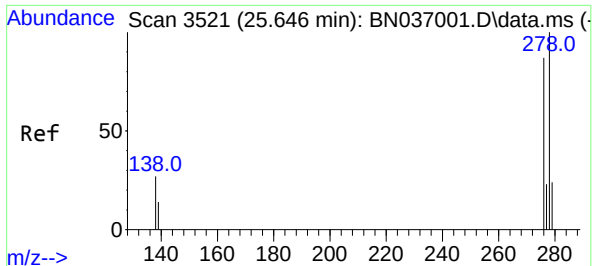
Ion Ratio Lower Upper

252 100

253 22.1 23.8 35.6#

125 14.7 21.8 32.6#





#40

Dibenzo(a,h)anthracene

Concen: 6.68 ng

RT: 25.637 min Scan# 3518

Delta R.T. -0.009 min

Lab File: BN037013.D

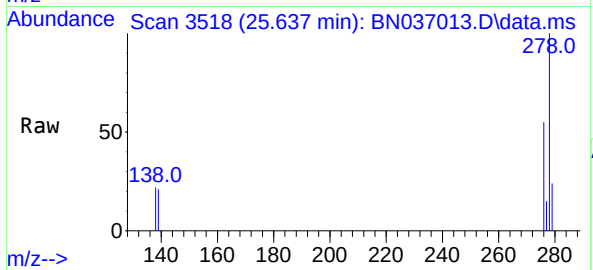
Acq: 14 May 2025 14:46

Instrument :

BNA_N

ClientSampleId :

HW0425-PT-PAH-SOIL



Tgt Ion:278 Resp: 155978

Ion Ratio Lower Upper

278 100

139 21.1 17.4 26.0

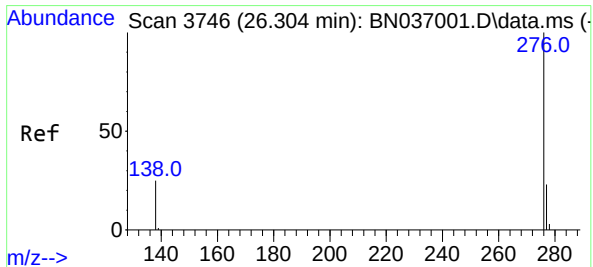
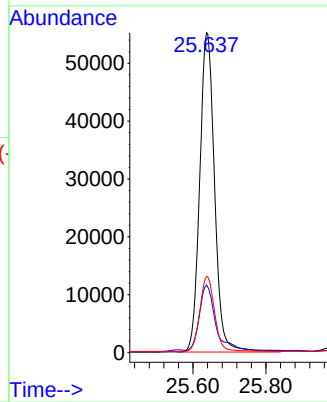
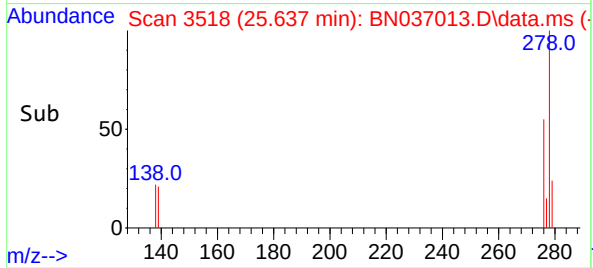
279 23.9 24.6 37.0

Manual Integrations

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Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#41

Benzo(g,h,i)perylene

Concen: 2.03 ng

RT: 26.298 min Scan# 3744

Delta R.T. -0.006 min

Lab File: BN037013.D

Acq: 14 May 2025 14:46

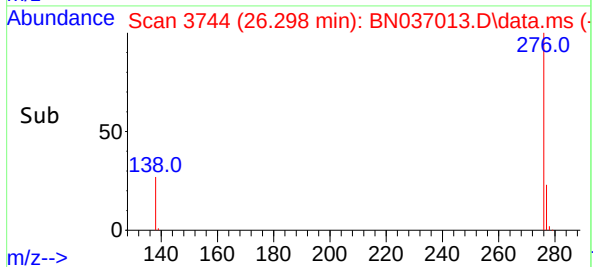
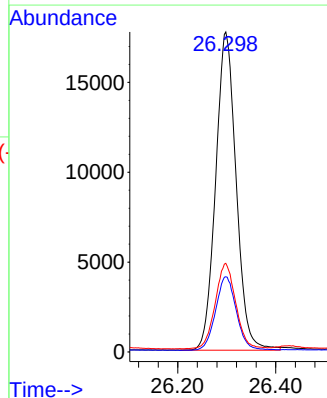
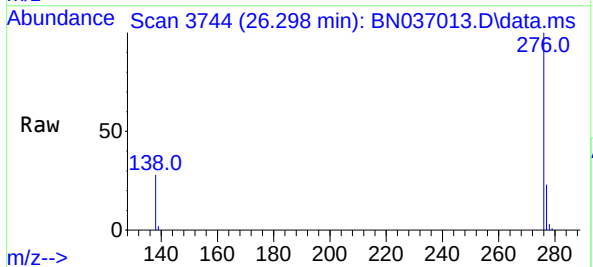
Tgt Ion:276 Resp: 51432

Ion Ratio Lower Upper

276 100

277 23.5 20.2 30.4

138 27.7 22.0 33.0



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	04/21/25
Project:	NJ Soil PT	Date Received:	04/24/25
Client Sample ID:	HW0425-PT-PAH-SOILDL	SDG No.:	Q1872
Lab Sample ID:	Q1872-13DL	Matrix:	SOIL
Analytical Method:	SW8270ESIM	% Solid:	100
Sample Wt/Vol:	30.15 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037014.D	10	05/08/25 10:03	05/14/25 15:48	PB167915

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	91.9	D	11.5	32.8	ug/Kg
91-57-6	2-Methylnaphthalene	210	D	11.8	32.8	ug/Kg
208-96-8	Acenaphthylene	450	D	10.7	32.8	ug/Kg
83-32-9	Acenaphthene	320	D	11.1	32.8	ug/Kg
86-73-7	Fluorene	180	D	11.2	32.8	ug/Kg
85-01-8	Phenanthrene	90.2	D	11.5	32.8	ug/Kg
120-12-7	Anthracene	85.9	D	12.1	32.8	ug/Kg
206-44-0	Fluoranthene	140	D	11.8	32.8	ug/Kg
129-00-0	Pyrene	250	D	10.7	32.8	ug/Kg
56-55-3	Benzo(a)anthracene	41.1	D	12.8	32.8	ug/Kg
218-01-9	Chrysene	250	D	13.6	32.8	ug/Kg
205-99-2	Benzo(b)fluoranthene	170	D	15.7	32.8	ug/Kg
207-08-9	Benzo(k)fluoranthene	170	D	18.3	32.8	ug/Kg
50-32-8	Benzo(a)pyrene	200	D	14.2	32.8	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	120	D	17.7	32.8	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	220	D	17.9	32.8	ug/Kg
191-24-2	Benzo(g,h,i)perylene	68.7	D	16.8	32.8	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.30		17 - 161	75%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.31		23 - 138	77%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.24		33 - 121	60%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.25		32 - 121	63%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.34		21 - 130	85%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2220		7.611		
1146-65-2	Naphthalene-d8	6520		10.394		
15067-26-2	Acenaphthene-d10	3840		14.267		
1517-22-2	Phenanthrene-d10	7560		17.009		
1719-03-5	Chrysene-d12	6830		21.206		



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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	04/21/25
Project:	NJ Soil PT		Date Received:	04/24/25
Client Sample ID:	HW0425-PT-PAH-SOILDL		SDG No.:	Q1872
Lab Sample ID:	Q1872-13DL		Matrix:	SOIL
Analytical Method:	SW8270ESIM		% Solid:	100
Sample Wt/Vol:	30.15	Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group3
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037014.D	10	05/08/25 10:03	05/14/25 15:48	PB167915

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1520-96-3	Perylene-d12	6320	23.415			

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\BN051425\
 Data File : BN037014.D
 Acq On : 14 May 2025 15:48
 Operator : RC/JU
 Sample : Q1872-13DL 10X
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 HW0425-PT-PAH-SOILD

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/15/2025
 Supervised By :Jagrut Upadhyay 05/15/2025

Quant Time: May 14 16:13:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 11:26:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.611	152	2217	0.40	ng	0.00
7) Naphthalene-d8	10.394	136	6524	0.40	ng	#-0.01
13) Acenaphthene-d10	14.267	164	3844	0.40	ng	0.00
19) Phenanthrene-d10	17.009	188	7555	0.40	ng	0.00
29) Chrysene-d12	21.206	240	6828	0.40	ng	0.00
35) Perylene-d12	23.415	264	6318	0.40	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	152	0.03	ng	0.00
5) Phenol-d6	6.788	99	202	0.03	ng	0.00
8) Nitrobenzene-d5	8.771	82	167	0.02	ng	0.00
11) 2-Methylnaphthalene-d10	11.991	152	274	0.03	ng	0.00
14) 2,4,6-Tribromophenol	15.755	330	43	0.03	ng	-0.01
15) 2-Fluorobiphenyl	12.883	172	446	0.03	ng	0.00
27) Fluoranthene-d10	19.049	212	647	0.03	ng	0.00
31) Terphenyl-d14	19.653	244	493	0.03	ng	0.00
Target Compounds						Qvalue
9) Naphthalene	10.447	128	5349	0.28	ng	99
12) 2-Methylnaphthalene	12.067	142	7989	0.64	ng	97
16) Acenaphthylene	13.978	152	25111	1.34	ng	100
17) Acenaphthene	14.320	154	11699	0.96	ng	98
18) Fluorene	15.314	166	8614	0.54	ng	100
25) Phenanthrene	17.046	178	6724	0.27	ng	99
26) Anthracene	17.145	178	5812	0.26	ng	100
28) Fluoranthene	19.077	202	12683	0.43	ng	99
30) Pyrene	19.444	202	21776	0.75	ng	100
32) Benzo(a)anthracene	21.197	228	3185	0.12	ng	95
33) Chrysene	21.242	228	20196	0.74	ng	98
34) Bis(2-ethylhexyl)phtha...	21.135	149	933	0.06	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.628	276	9550	0.37	ng	# 91
37) Benzo(b)fluoranthene	22.754	252	13577	0.52	ng	98
38) Benzo(k)fluoranthene	22.798	252	13383m	0.52	ng	
39) Benzo(a)pyrene	23.319	252	13061	0.59	ng	# 92
40) Dibenzo(a,h)anthracene	25.640	278	13232	0.66	ng	95
41) Benzo(g,h,i)perylene	26.301	276	4514	0.21	ng	96

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

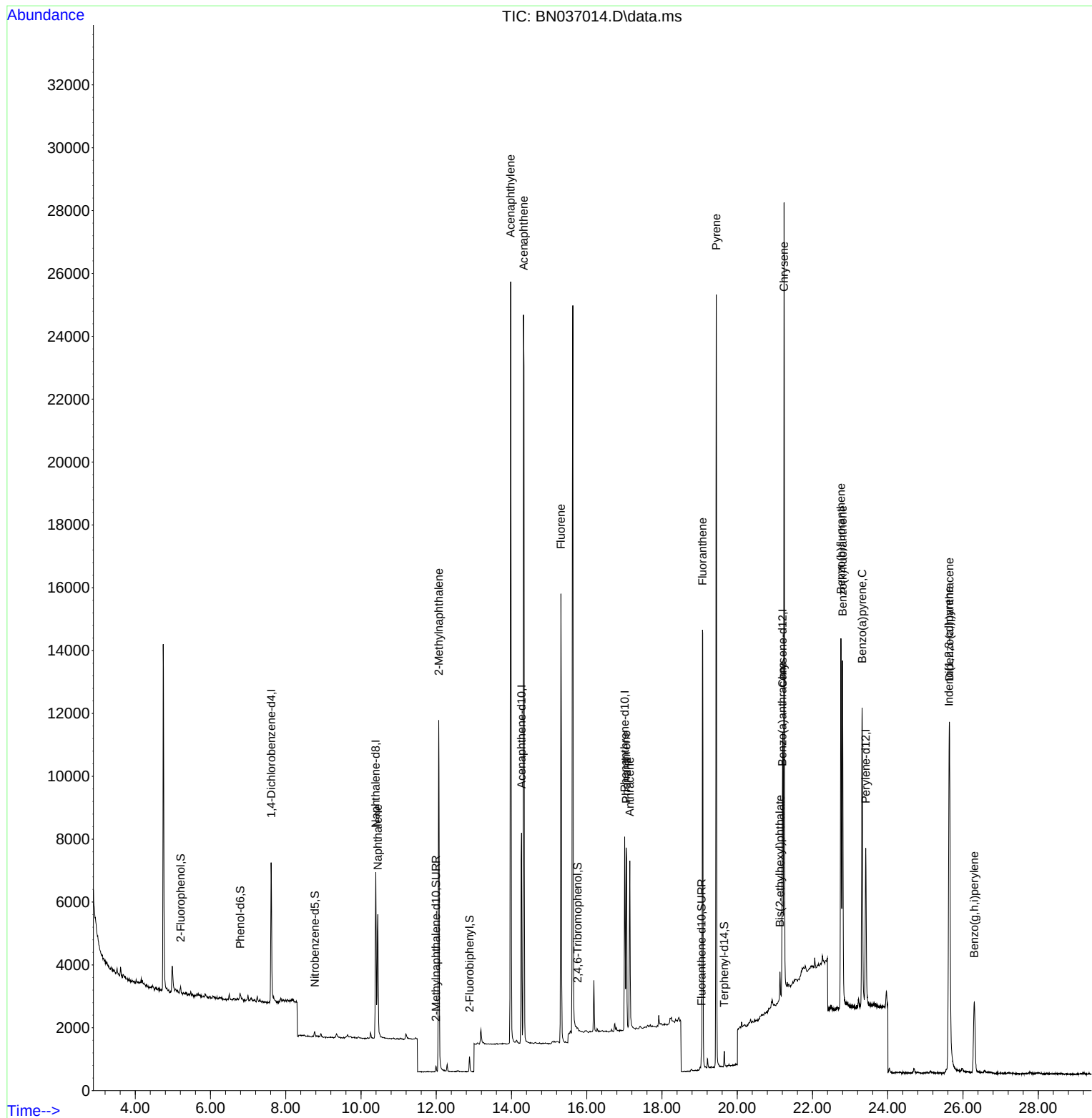
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Data File : BN037014.D
Acq On : 14 May 2025 15:48
Operator : RC/JU
Sample : Q1872-13DL 10X
Misc :
ALS Vial : 7 Sample Multiplier: 1

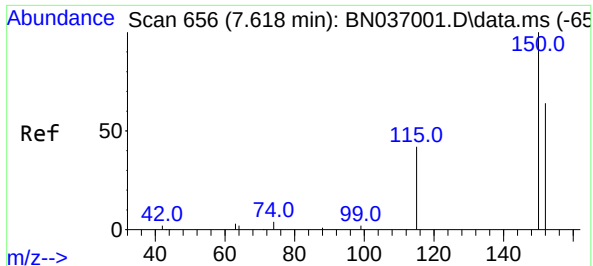
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

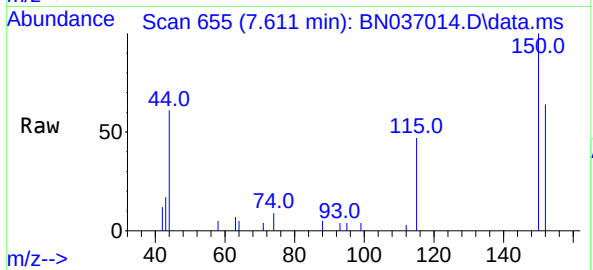
Quant Time: May 14 16:13:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.40 ng
RT: 7.611 min Scan# 611
Delta R.T. -0.007 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

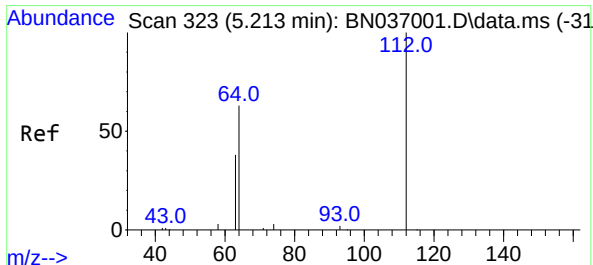
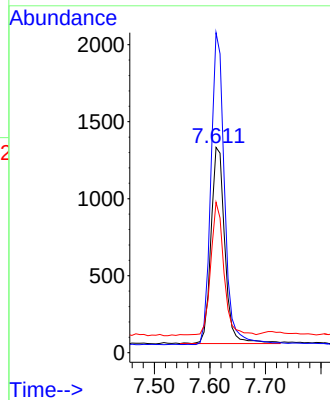
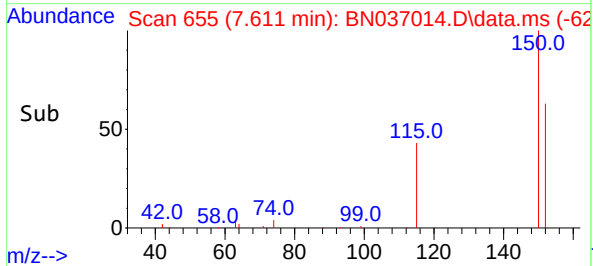
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD



Tgt Ion:152 Resp: 221
Ion Ratio Lower Upper
152 100
150 155.9 123.9 185.9
115 73.3 55.8 83.8

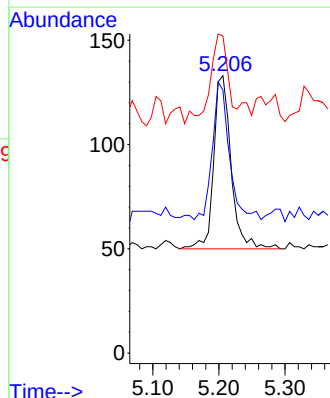
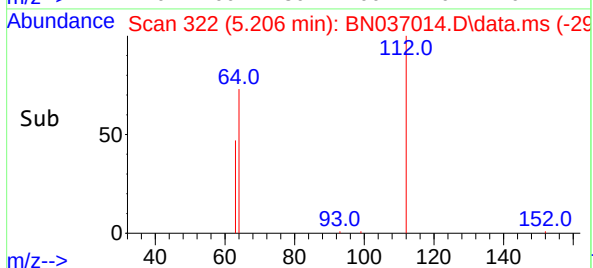
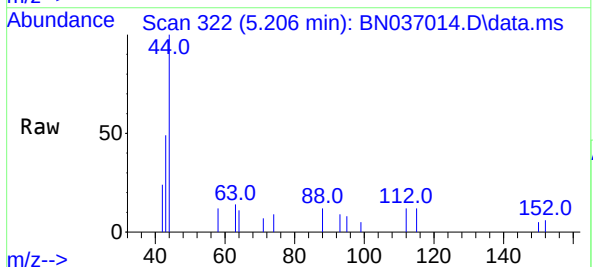
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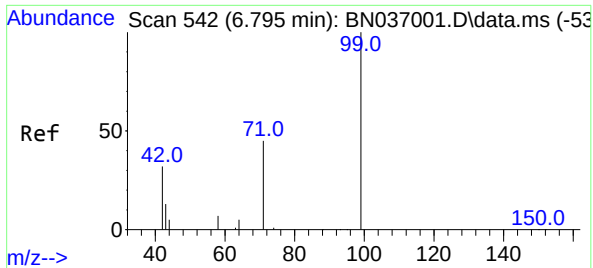
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#4
2-Fluorophenol
Concen: 0.03 ng
RT: 5.206 min Scan# 322
Delta R.T. -0.007 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

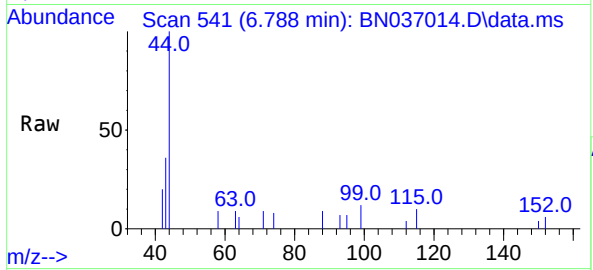
Tgt Ion:112 Resp: 152
Ion Ratio Lower Upper
112 100
64 76.3 55.7 83.5
63 53.9 34.6 51.8#





#5
Phenol-d6
Concen: 0.03 ng
RT: 6.788 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

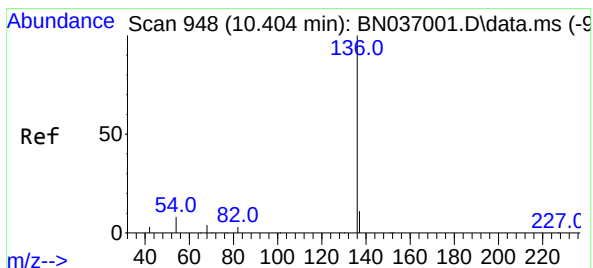
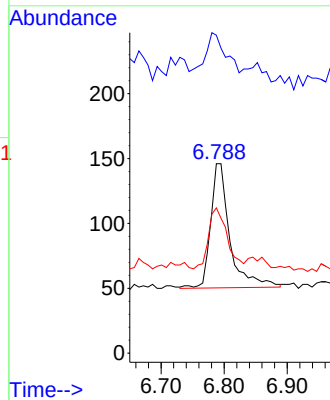
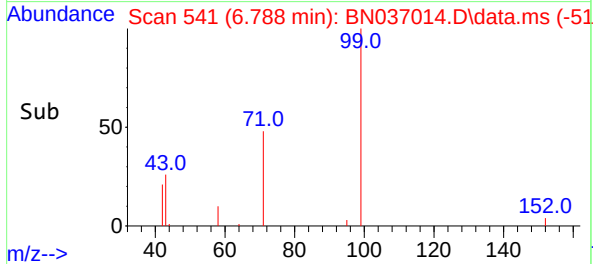
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD



Tgt Ion: 99 Resp: 202
Ion Ratio Lower Upper
99 100
42 38.6 29.3 43.9
71 47.5 35.7 53.5

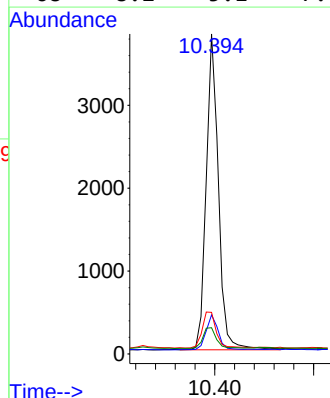
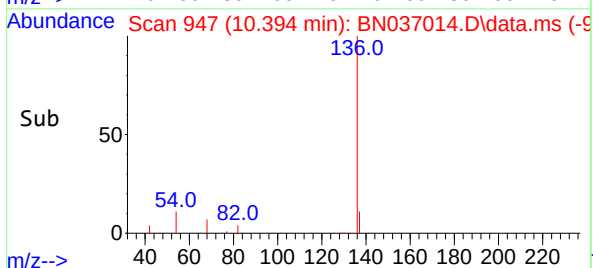
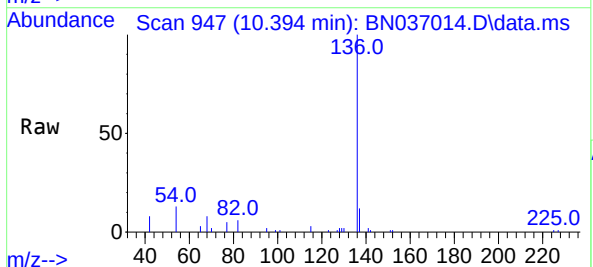
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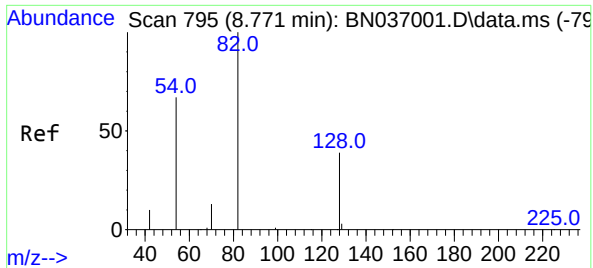
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#7
Naphthalene-d8
Concen: 0.40 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

Tgt Ion:136 Resp: 6524
Ion Ratio Lower Upper
136 100
137 12.2 10.4 15.6
54 13.0 8.5 12.7#
68 8.2 5.1 7.7#





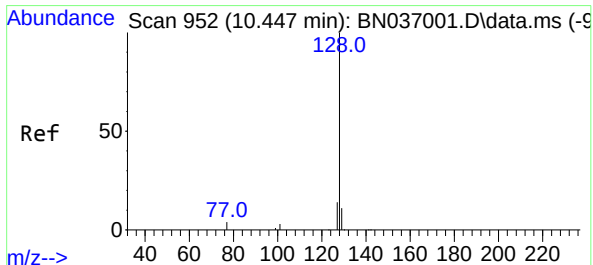
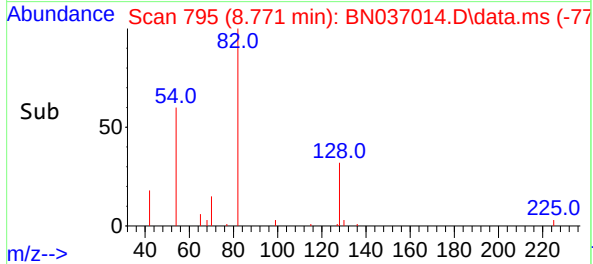
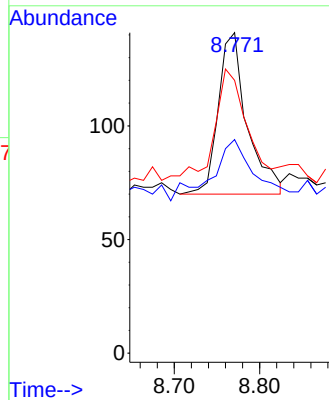
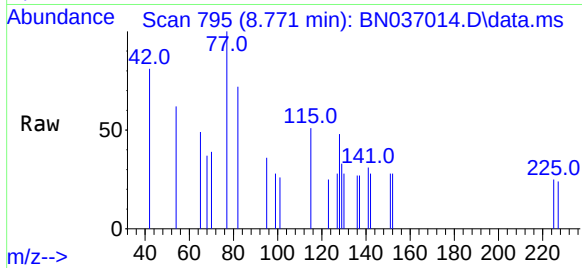
#8
Nitrobenzene-d5
Concen: 0.02 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD

Tgt Ion: 82 Resp: 165
Ion Ratio Lower Upper
82 100
128 66.7 34.0 51.0
54 85.1 55.0 82.4

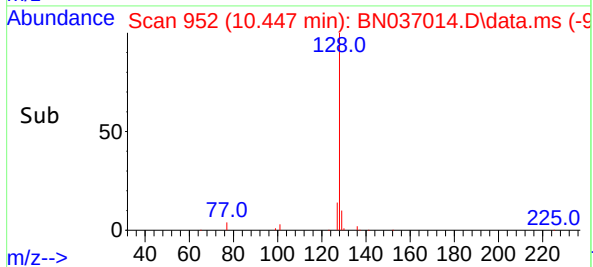
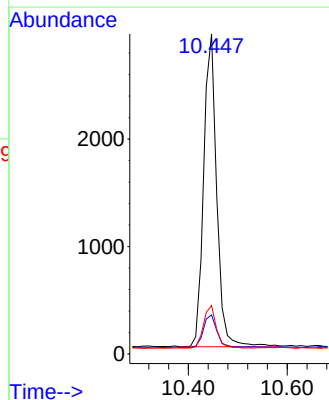
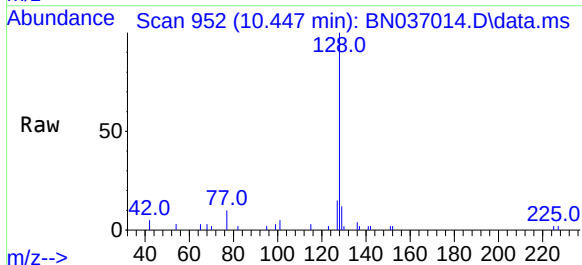
Manual Integrations
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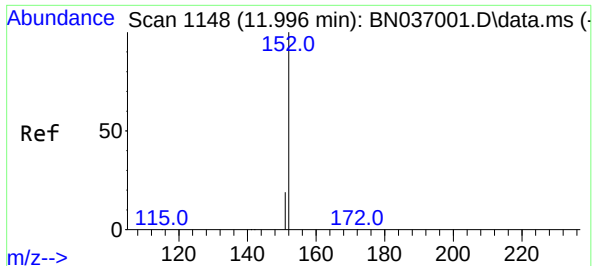
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#9
Naphthalene
Concen: 0.28 ng
RT: 10.447 min Scan# 952
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

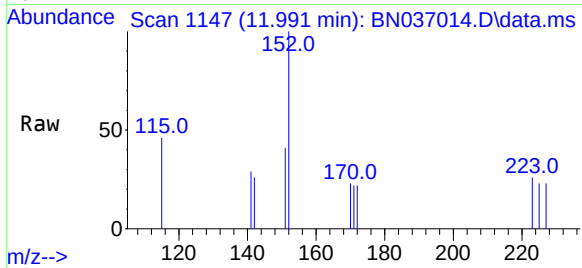
Tgt Ion:128 Resp: 5349
Ion Ratio Lower Upper
128 100
129 12.2 9.7 14.5
127 15.1 12.4 18.6





#11
2-Methylnaphthalene-d10
Concen: 0.03 ng
RT: 11.991 min Scan# 1147
Delta R.T. -0.005 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

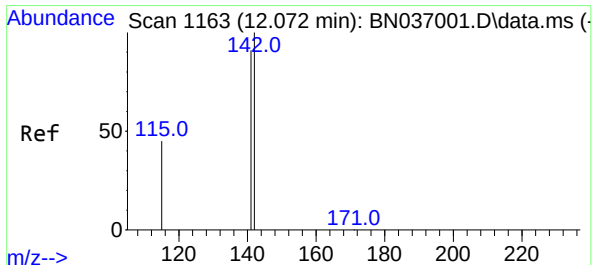
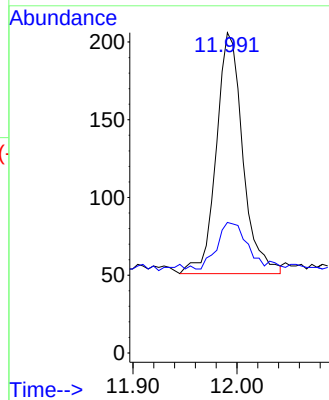
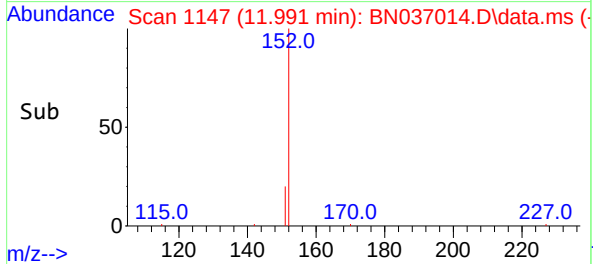
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD



Tgt Ion:152 Resp: 274
Ion Ratio Lower Upper
152 100
151 22.6 17.5 26.3

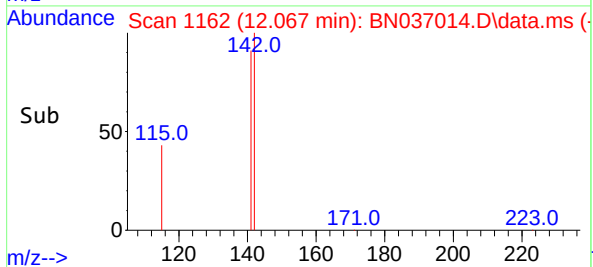
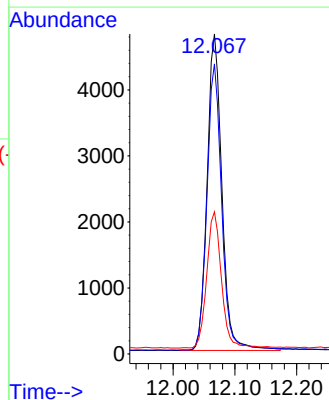
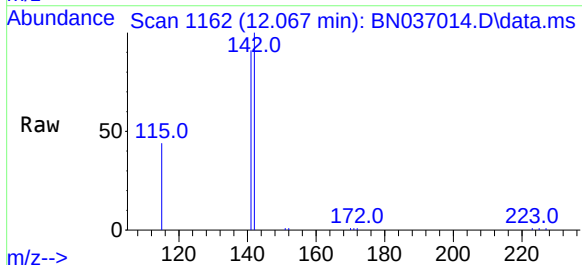
Manual Integrations
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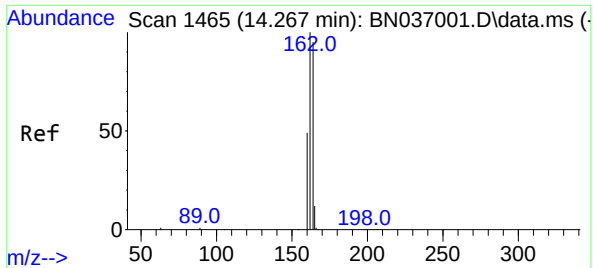
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#12
2-Methylnaphthalene
Concen: 0.64 ng
RT: 12.067 min Scan# 1162
Delta R.T. -0.005 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

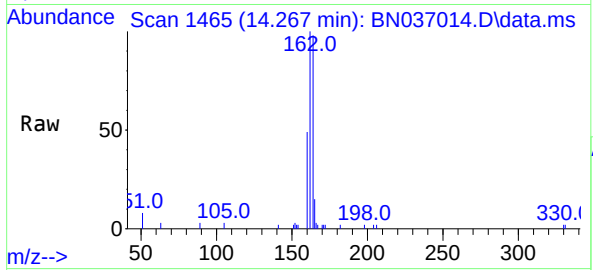
Tgt Ion:142 Resp: 7989
Ion Ratio Lower Upper
142 100
141 90.6 73.3 109.9
115 44.4 38.4 57.6





#13
Acenaphthene-d10
Concen: 0.40 ng
RT: 14.267 min Scan# 1465
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

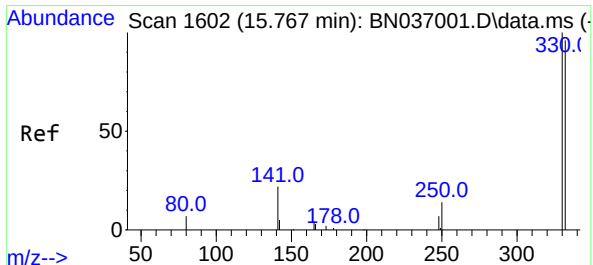
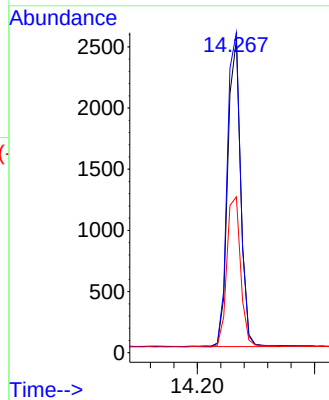
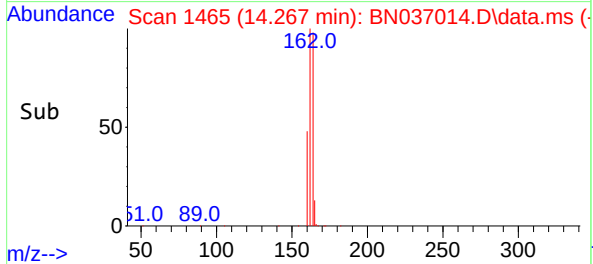
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILDL



Tgt Ion:164 Resp: 3844
Ion Ratio Lower Upper
164 100
162 102.1 84.2 126.4
160 49.7 42.6 63.8

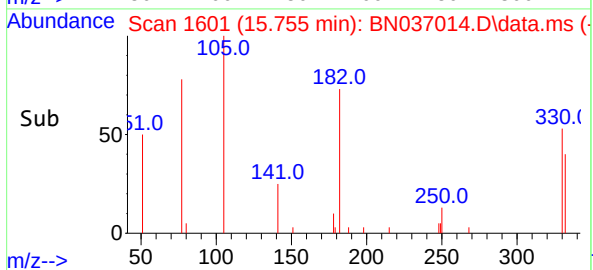
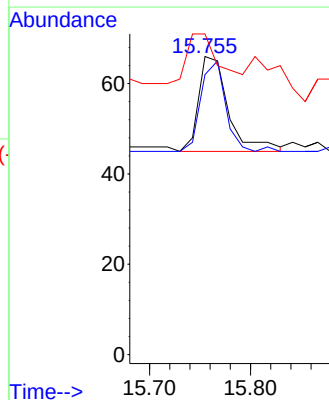
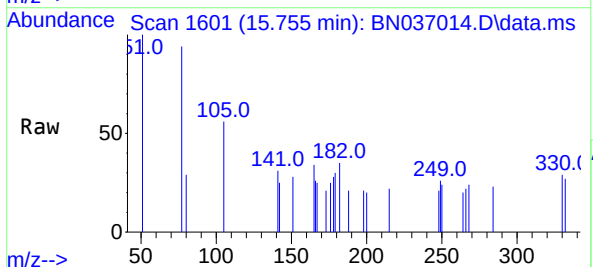
Manual Integrations
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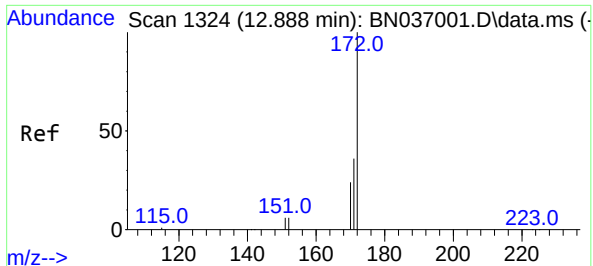
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#14
2,4,6-Tribromophenol
Concen: 0.03 ng
RT: 15.755 min Scan# 1601
Delta R.T. -0.012 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

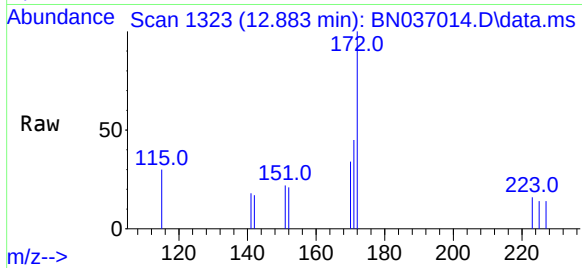
Tgt Ion:330 Resp: 43
Ion Ratio Lower Upper
330 100
332 79.1 73.8 110.8
141 0.0 43.9 65.9#





#15
2-Fluorobiphenyl
Concen: 0.03 ng
RT: 12.883 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

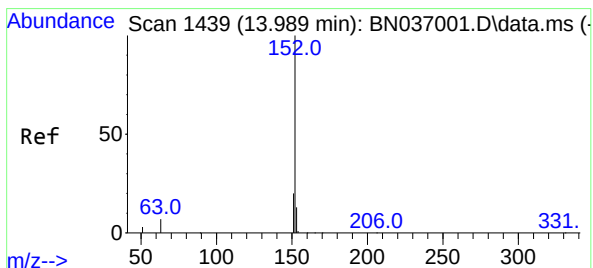
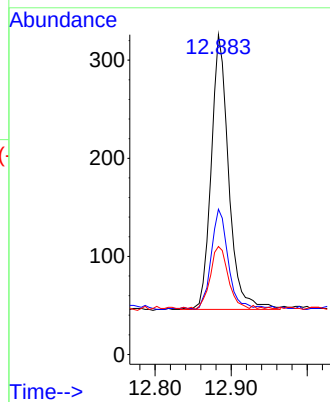
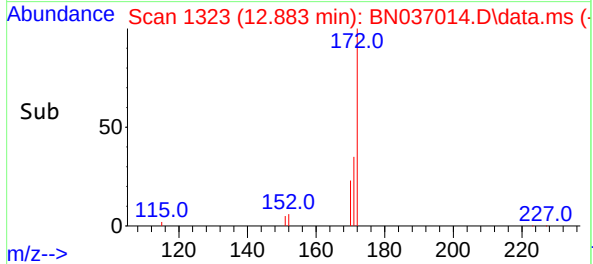
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD



Tgt Ion:172 Resp: 440
Ion Ratio Lower Upper
172 100
171 45.4 29.2 43.8
170 33.7 20.5 30.7

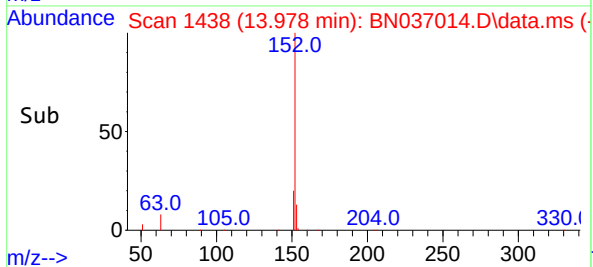
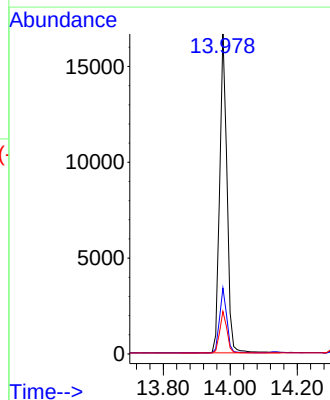
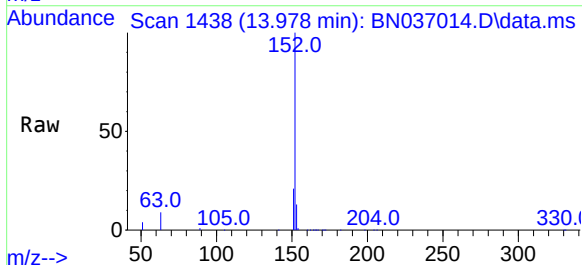
Manual Integrations
APPROVED

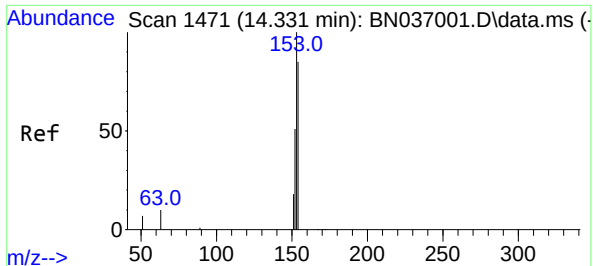
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#16
Acenaphthylene
Concen: 1.34 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.011 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

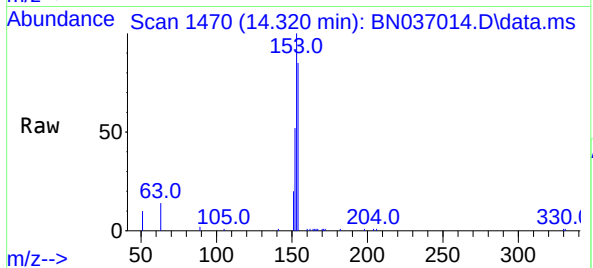
Tgt Ion:152 Resp: 25111
Ion Ratio Lower Upper
152 100
151 20.1 16.1 24.1
153 13.0 10.5 15.7





#17
Acenaphthene
Concen: 0.96 ng
RT: 14.320 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

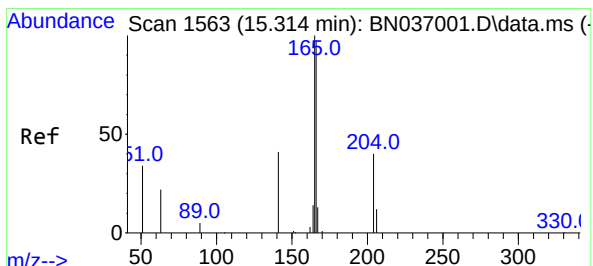
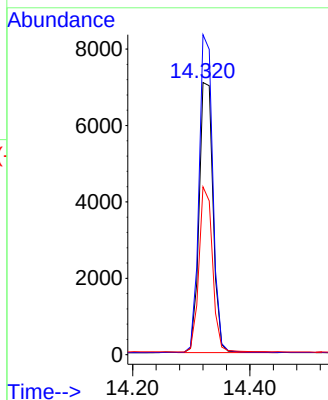
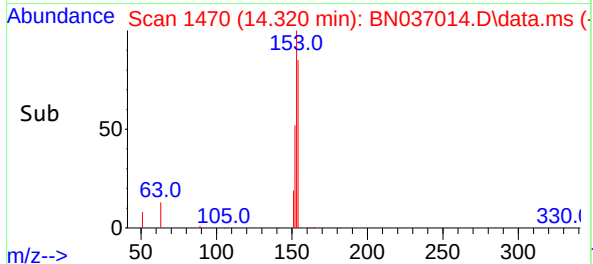
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILDL



Tgt Ion:154 Resp: 1169
Ion Ratio Lower Upper
154 100
153 116.5 94.2 141.4
152 59.7 49.4 74.0

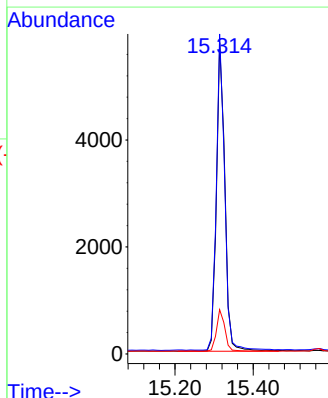
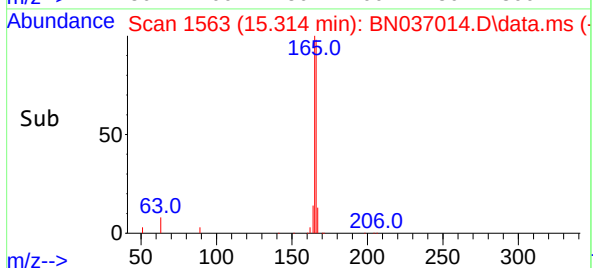
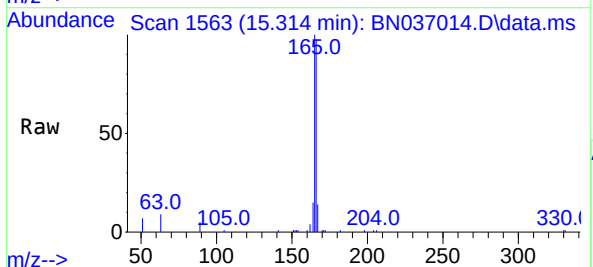
Manual Integrations
APPROVED

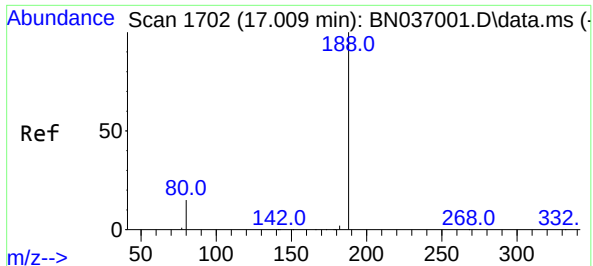
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#18
Fluorene
Concen: 0.54 ng
RT: 15.314 min Scan# 1563
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

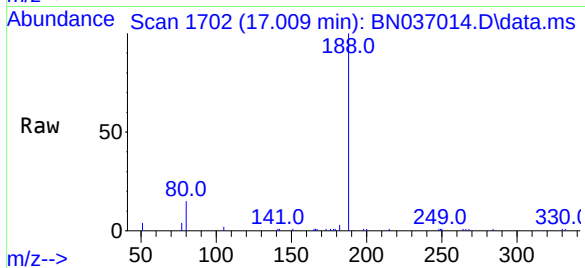
Tgt Ion:166 Resp: 8614
Ion Ratio Lower Upper
166 100
165 100.3 80.6 120.8
167 13.5 10.6 16.0





#19
Phenanthrene-d10
Concen: 0.40 ng
RT: 17.009 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

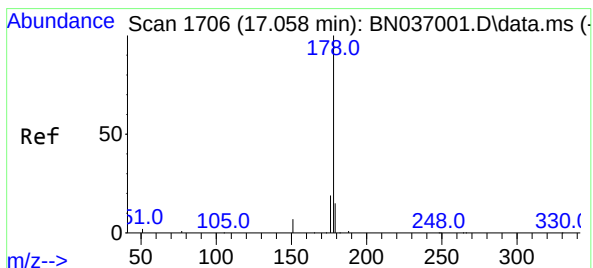
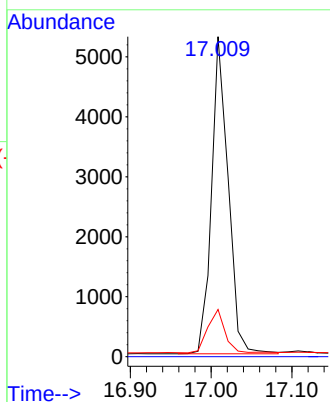
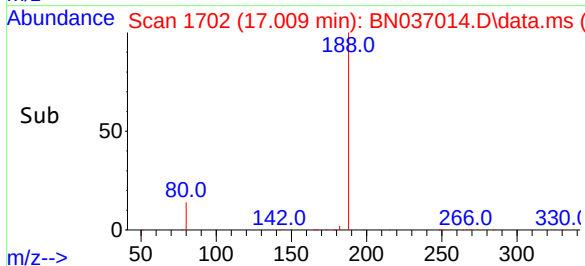
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD



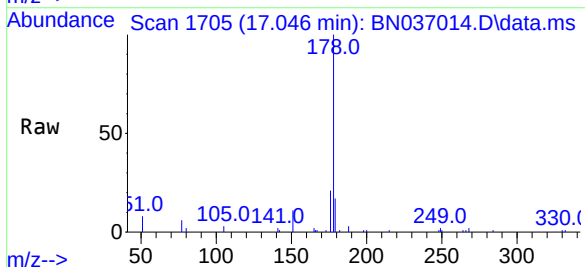
Tgt Ion:188 Resp: 755
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 14.8 13.4 20.0

Manual Integrations
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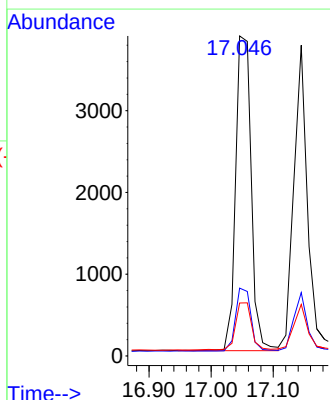
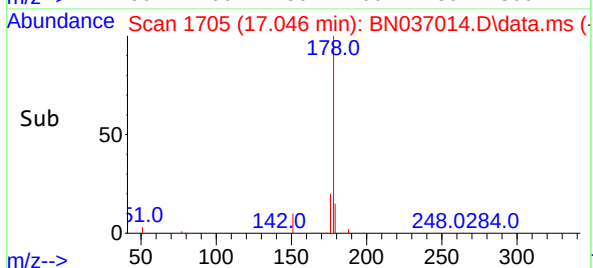
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

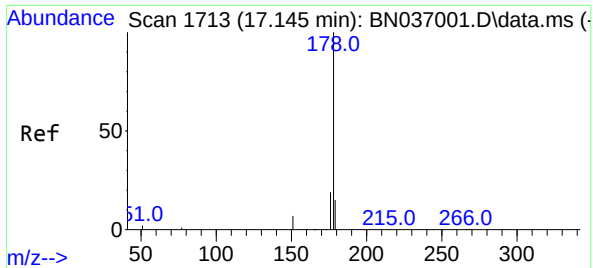


#25
Phenanthrene
Concen: 0.27 ng
RT: 17.046 min Scan# 1705
Delta R.T. -0.012 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48



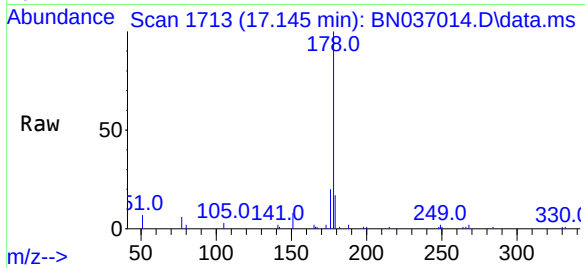
Tgt Ion:178 Resp: 6724
Ion Ratio Lower Upper
178 100
176 19.7 15.7 23.5
179 15.9 12.2 18.2





#26
 Anthracene
 Concen: 0.26 ng
 RT: 17.145 min Scan# 1713
 Delta R.T. -0.000 min
 Lab File: BN037014.D
 Acq: 14 May 2025 15:48

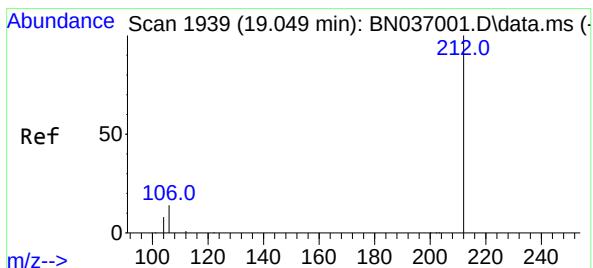
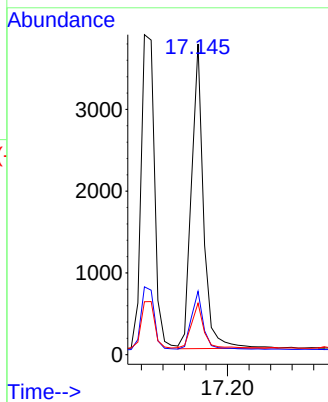
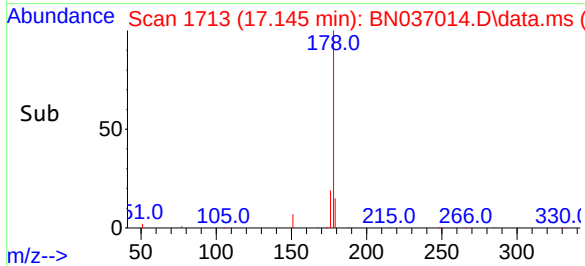
Instrument :
 BNA_N
 ClientSampleId :
 HW0425-PT-PAH-SOILD



Tgt Ion:178 Resp: 5812
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.0 22.6
 179 15.2 12.3 18.5

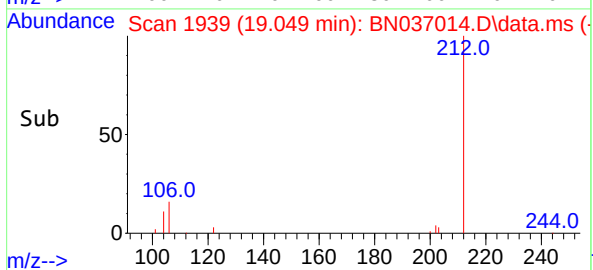
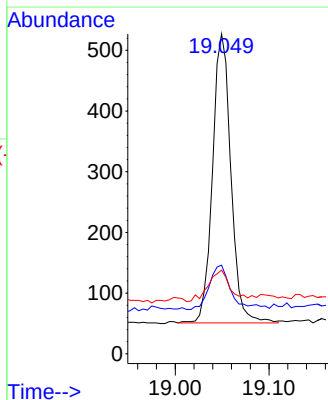
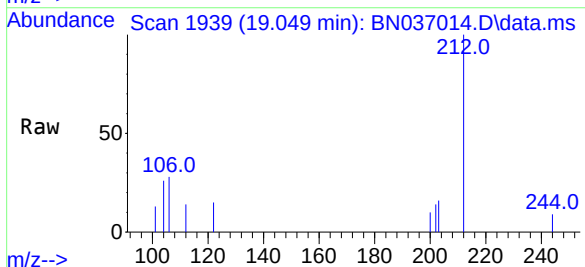
Manual Integrations
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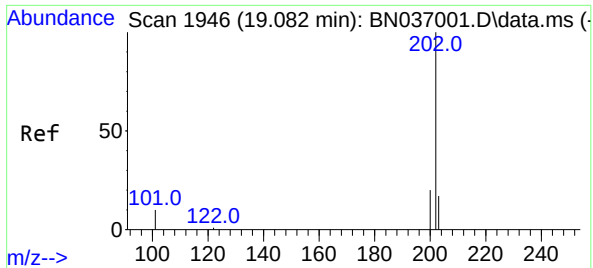
Reviewed By :Rahul Chavli 05/15/2025
 Supervised By :Jagrut Upadhyay 05/15/2025



#27
 Fluoranthene-d10
 Concen: 0.03 ng
 RT: 19.049 min Scan# 1939
 Delta R.T. -0.000 min
 Lab File: BN037014.D
 Acq: 14 May 2025 15:48

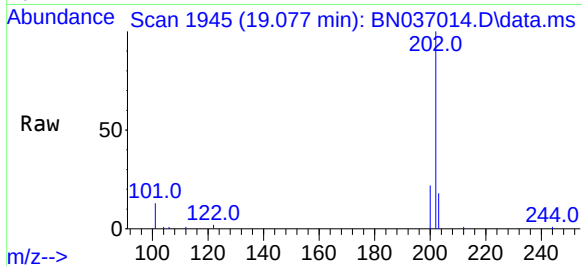
Tgt Ion:212 Resp: 647
 Ion Ratio Lower Upper
 212 100
 106 18.5 11.3 16.9#
 104 12.8 6.7 10.1#





#28
Fluoranthene
Concen: 0.43 ng
RT: 19.077 min Scan# 1946
Delta R.T. -0.005 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

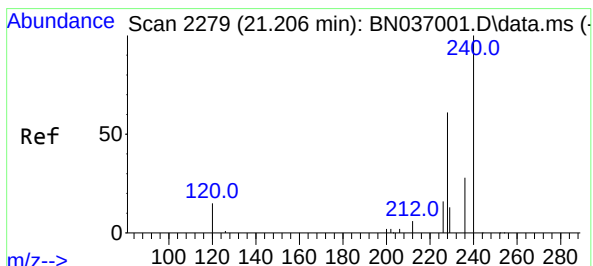
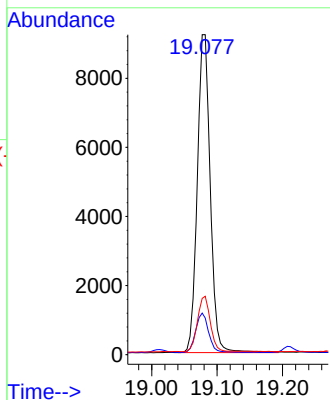
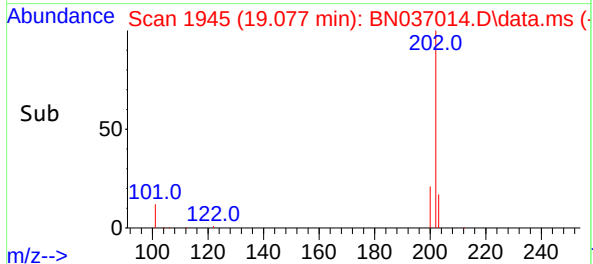
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD



Tgt Ion:202 Resp: 1268
Ion Ratio Lower Upper
202 100
101 12.3 8.9 13.3
203 17.3 13.8 20.8

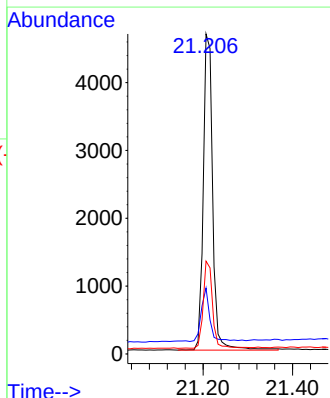
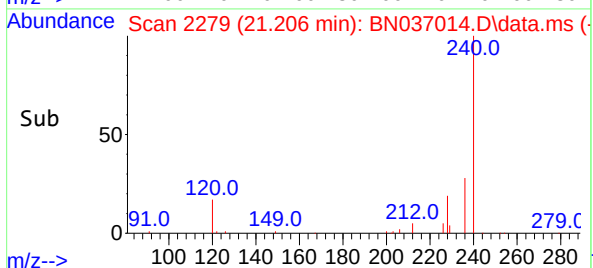
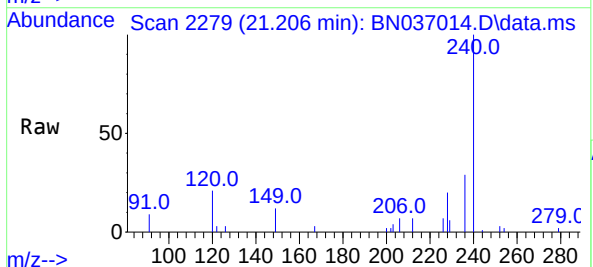
Manual Integrations
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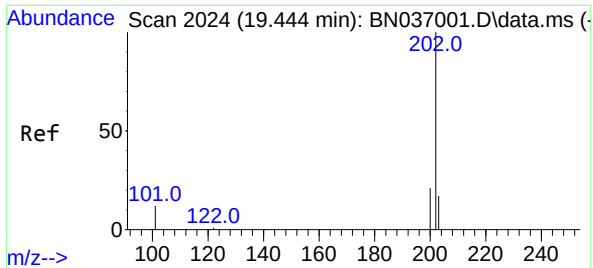
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#29
Chrysene-d12
Concen: 0.40 ng
RT: 21.206 min Scan# 2279
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

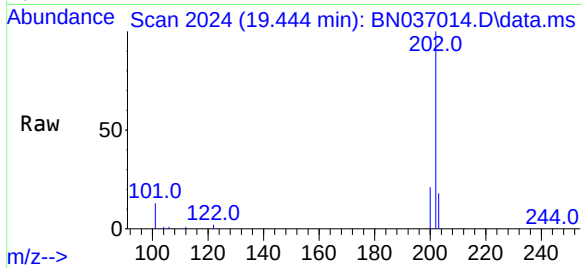
Tgt Ion:240 Resp: 6828
Ion Ratio Lower Upper
240 100
120 20.6 15.1 22.7
236 29.0 24.0 36.0





#30
Pyrene
Concen: 0.75 ng
RT: 19.444 min Scan# 2024
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

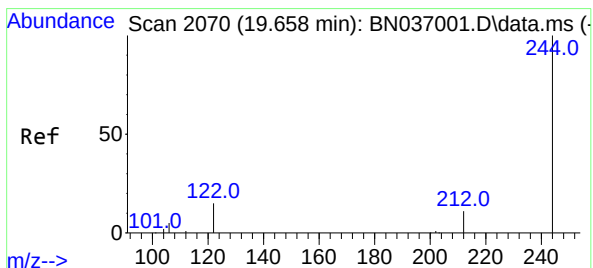
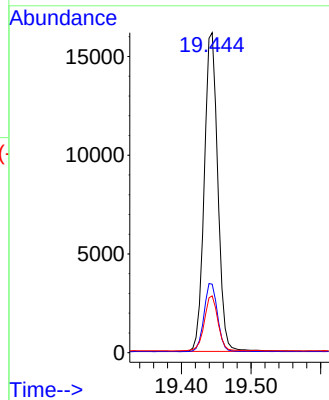
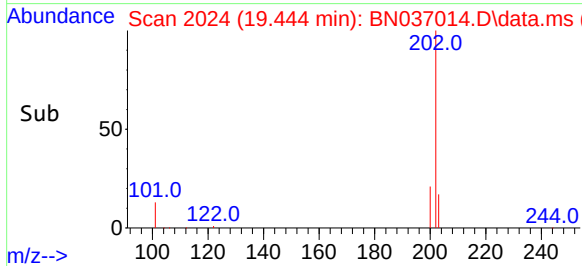
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILDL



Tgt Ion:202 Resp: 21770
Ion Ratio Lower Upper
202 100
200 21.6 17.1 25.7
203 17.5 14.2 21.4

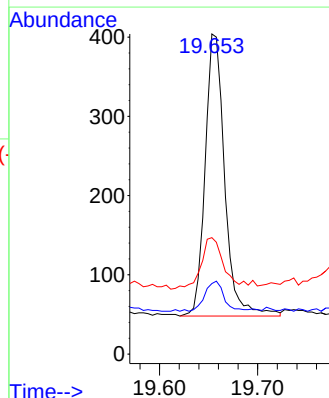
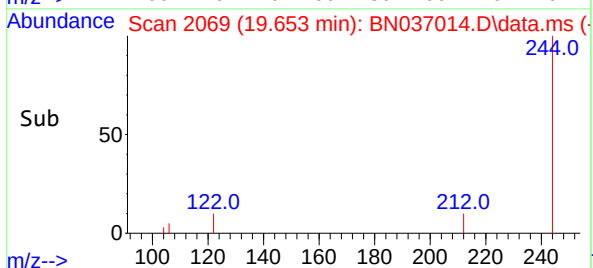
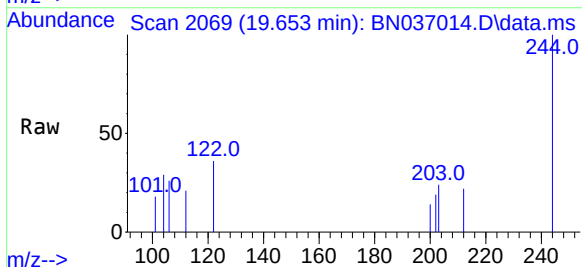
Manual Integrations
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Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

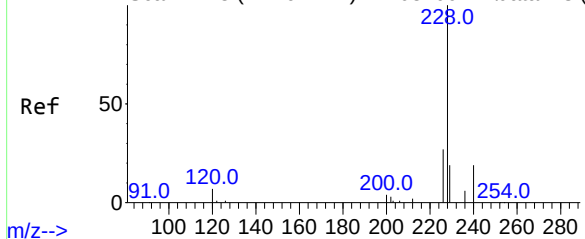


#31
Terphenyl-d14
Concen: 0.03 ng
RT: 19.653 min Scan# 2069
Delta R.T. -0.005 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

Tgt Ion:244 Resp: 493
Ion Ratio Lower Upper
244 100
212 22.0 9.7 14.5#
122 36.4 13.4 20.0#



Abundance Scan 2278 (21.197 min): BN037001.D\data.ms (-



#32

Benzo(a)anthracene

Concen: 0.12 ng

RT: 21.197 min Scan# 2119

Delta R.T. -0.000 min

Lab File: BN037014.D

Acq: 14 May 2025 15:48

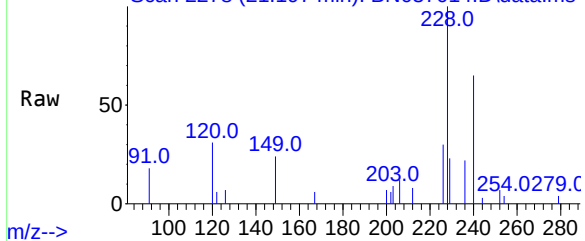
Instrument :

BNA_N

ClientSampleId :

HW0425-PT-PAH-SOILD

Abundance Scan 2278 (21.197 min): BN037014.D\data.ms (-



Tgt Ion:228 Resp: 3185

Ion Ratio Lower Upper

228 100

226 29.9 22.2 33.4

229 22.5 16.0 24.0

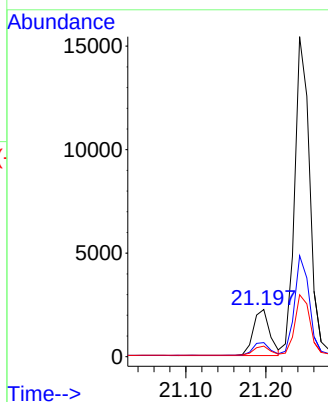
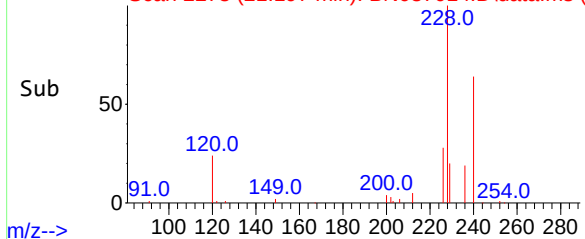
Manual Integrations

APPROVED

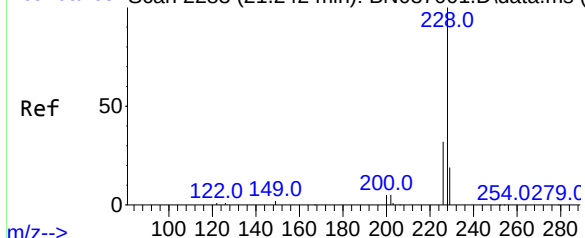
Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025

Abundance Scan 2278 (21.197 min): BN037014.D\data.ms (-



Abundance Scan 2283 (21.242 min): BN037001.D\data.ms (-



#33

Chrysene

Concen: 0.74 ng

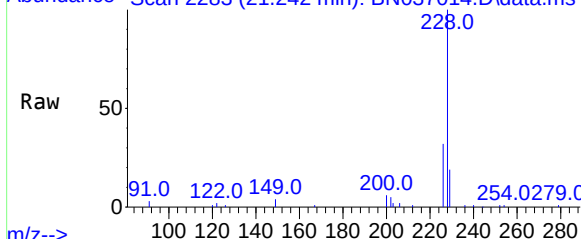
RT: 21.242 min Scan# 2283

Delta R.T. -0.000 min

Lab File: BN037014.D

Acq: 14 May 2025 15:48

Abundance Scan 2283 (21.242 min): BN037014.D\data.ms (-



Tgt Ion:228 Resp: 20196

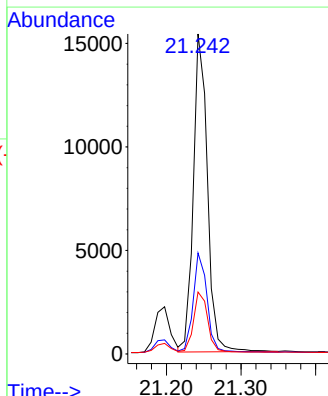
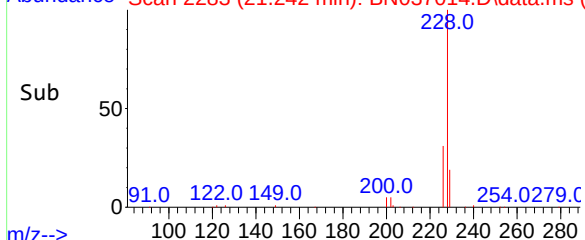
Ion Ratio Lower Upper

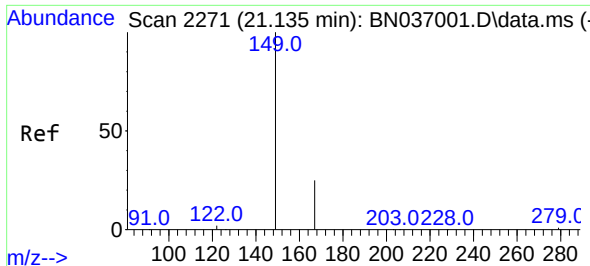
228 100

226 31.6 26.3 39.5

229 19.3 16.2 24.2

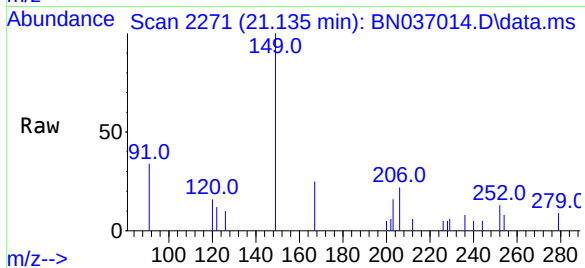
Abundance Scan 2283 (21.242 min): BN037014.D\data.ms (-





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.06 ng
RT: 21.135 min Scan# 2113
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

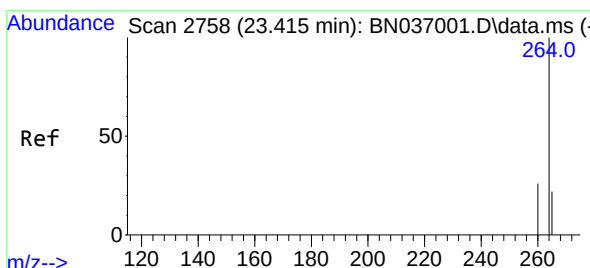
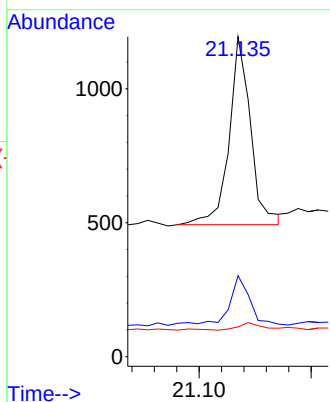
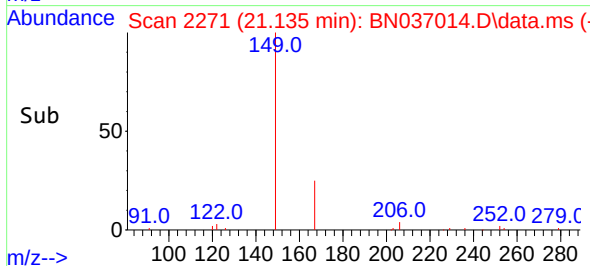
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD



Tgt Ion:149 Resp: 938
Ion Ratio Lower Upper
149 100
167 24.7 20.6 30.8
279 5.5 2.6 3.8

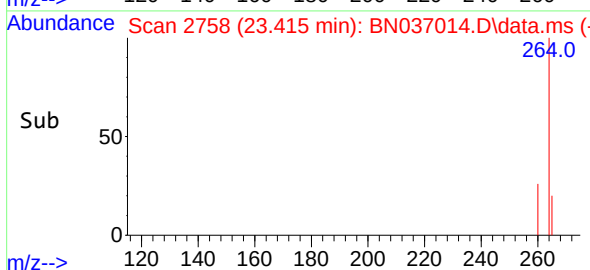
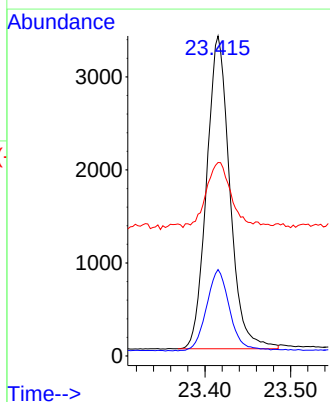
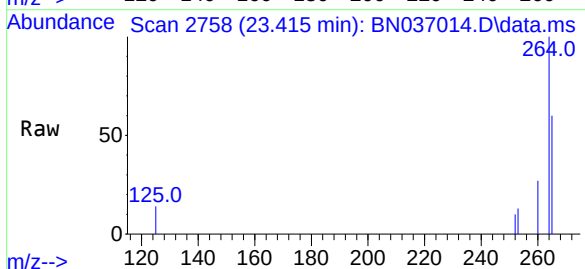
Manual Integrations
APPROVED

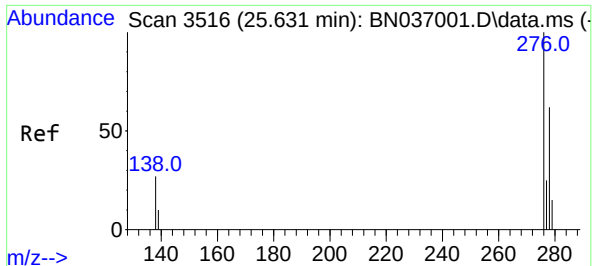
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#35
Perylene-d12
Concen: 0.40 ng
RT: 23.415 min Scan# 2758
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

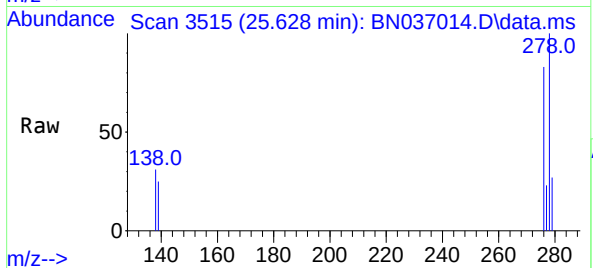
Tgt Ion:264 Resp: 6318
Ion Ratio Lower Upper
264 100
260 27.0 21.9 32.9
265 60.5 51.6 77.4





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.37 ng
RT: 25.628 min Scan# 3515
Delta R.T. -0.003 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

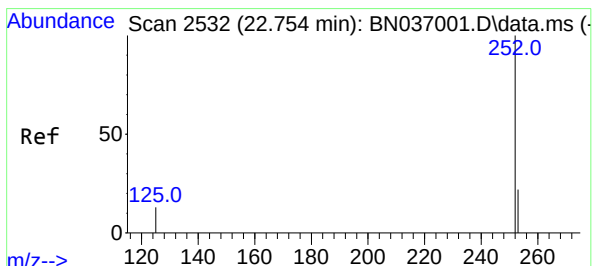
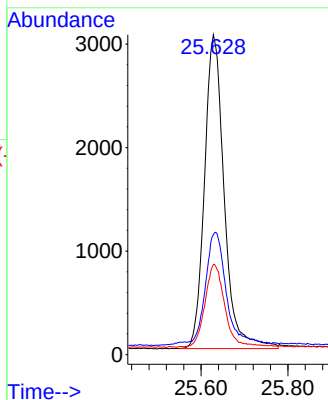
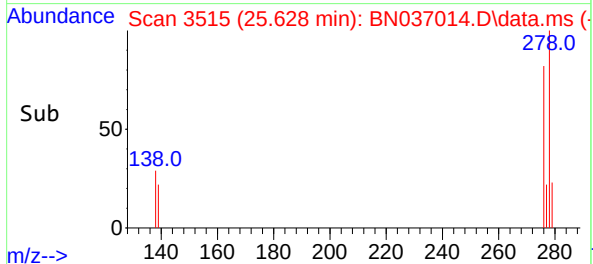
Instrument :
BNA_N
ClientSampleId :
HW0425-PT-PAH-SOILD



Tgt Ion:276 Resp: 9550
Ion Ratio Lower Upper
276 100
138 36.2 22.7 34.1
277 26.0 20.0 30.0

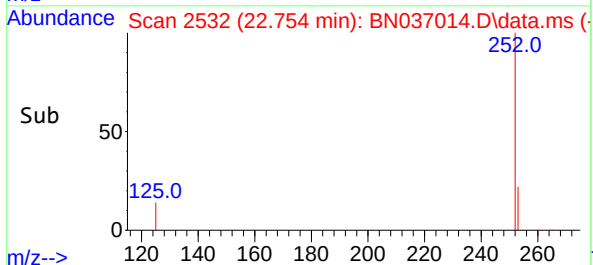
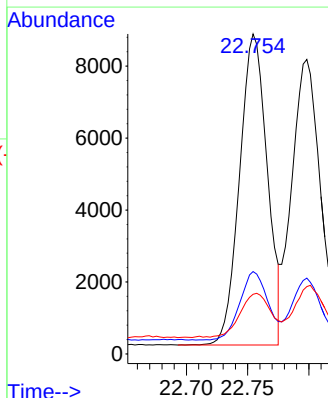
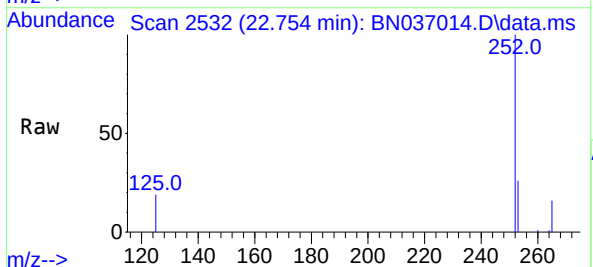
Manual Integrations
APPROVED

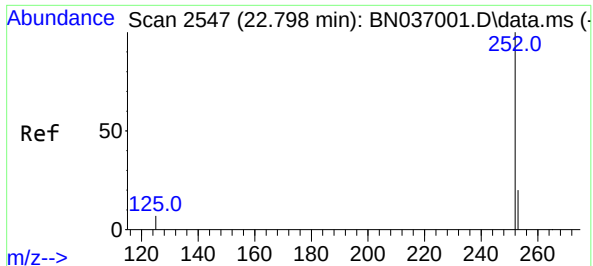
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#37
Benzo(b)fluoranthene
Concen: 0.52 ng
RT: 22.754 min Scan# 2532
Delta R.T. -0.000 min
Lab File: BN037014.D
Acq: 14 May 2025 15:48

Tgt Ion:252 Resp: 13577
Ion Ratio Lower Upper
252 100
253 25.8 21.8 32.6
125 18.7 14.6 21.8





#38

Benzo(k)fluoranthene

Concen: 0.52 ng m

RT: 22.798 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037014.D

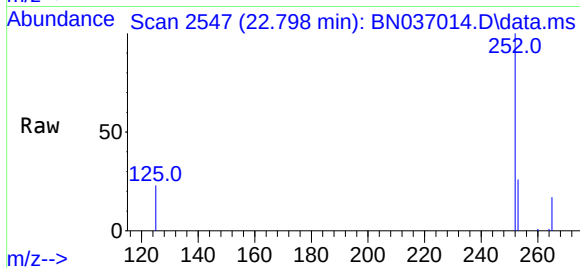
Acq: 14 May 2025 15:48

Instrument :

BNA_N

ClientSampleId :

HW0425-PT-PAH-SOILDL



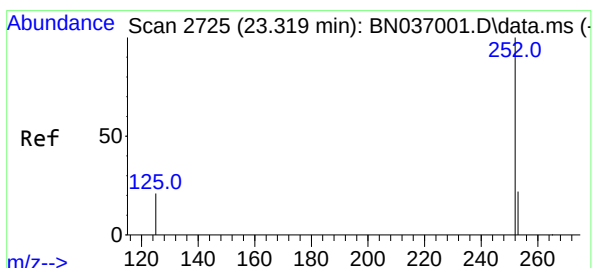
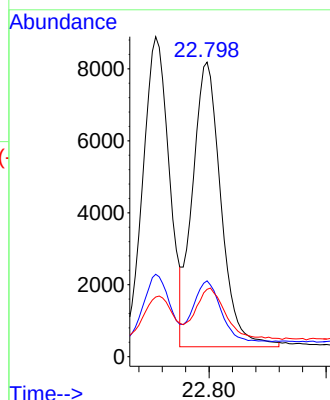
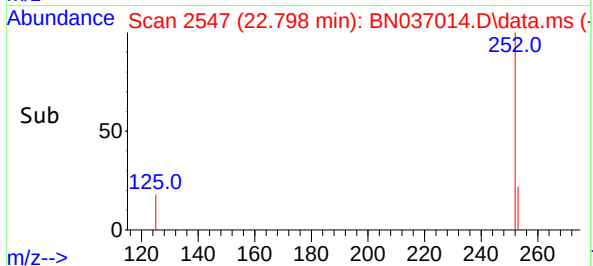
Tgt Ion:	252	Resp:	1338
Ion Ratio	Lower	Upper	
252	100		
253	25.7	21.4	32.2
125	22.9	13.0	19.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#39

Benzo(a)pyrene

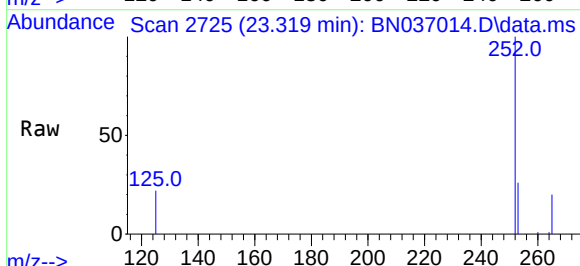
Concen: 0.59 ng

RT: 23.319 min Scan# 2725

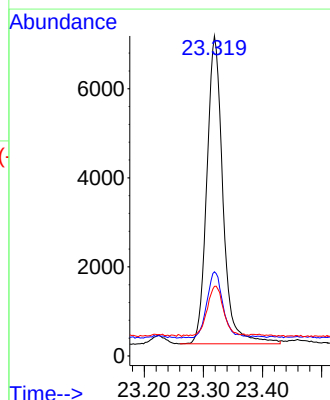
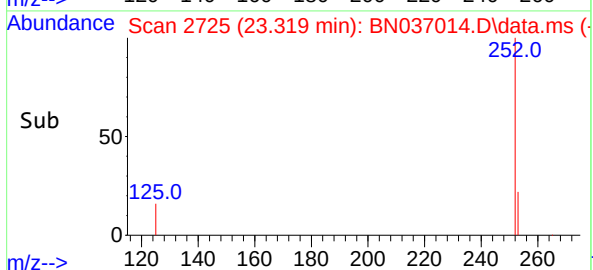
Delta R.T. -0.000 min

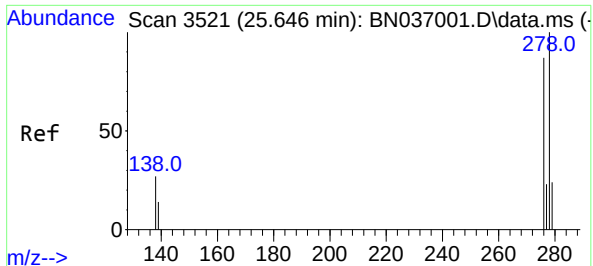
Lab File: BN037014.D

Acq: 14 May 2025 15:48



Tgt Ion:	252	Resp:	13061
Ion Ratio	Lower	Upper	
252	100		
253	26.3	23.8	35.6
125	21.7	21.8	32.6





#40

Dibenzo(a,h)anthracene

Concen: 0.66 ng

RT: 25.640 min Scan# 3521

Delta R.T. -0.006 min

Lab File: BN037014.D

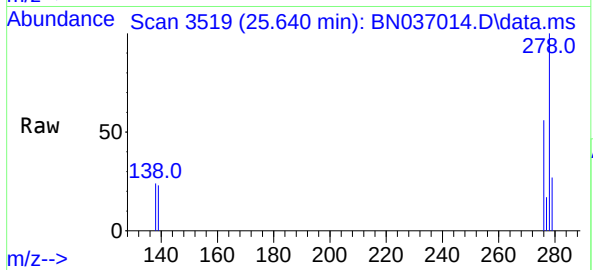
Acq: 14 May 2025 15:48

Instrument :

BNA_N

ClientSampleId :

HW0425-PT-PAH-SOILDL



Tgt Ion:278 Resp: 1323

Ion Ratio Lower Upper

278 100

139 22.7 17.4 26.0

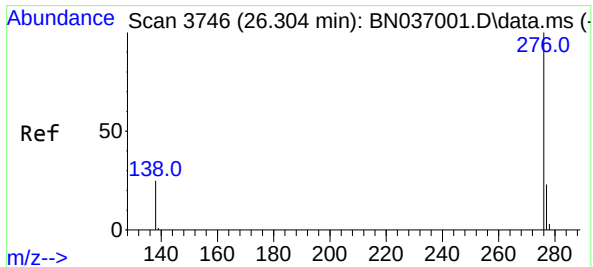
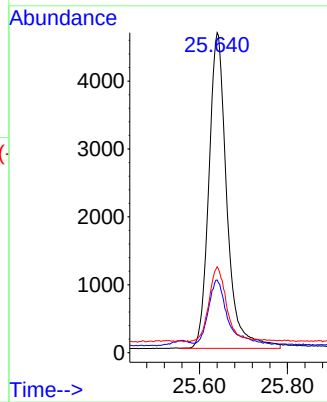
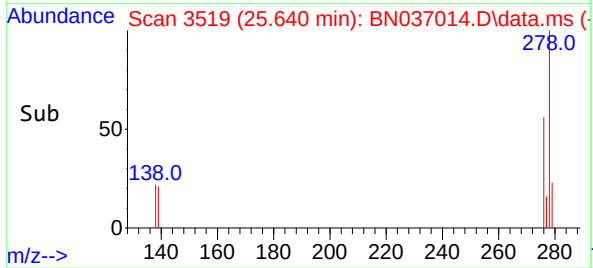
279 26.8 24.6 37.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#41

Benzo(g,h,i)perylene

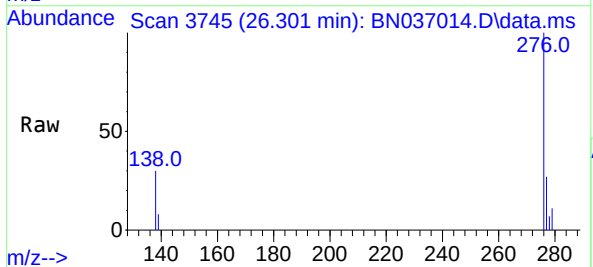
Concen: 0.21 ng

RT: 26.301 min Scan# 3745

Delta R.T. -0.003 min

Lab File: BN037014.D

Acq: 14 May 2025 15:48



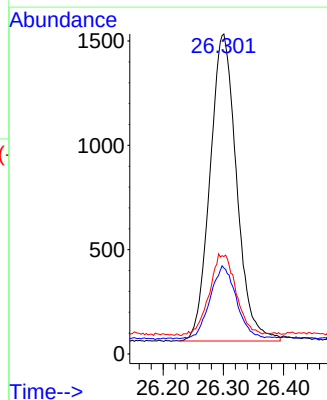
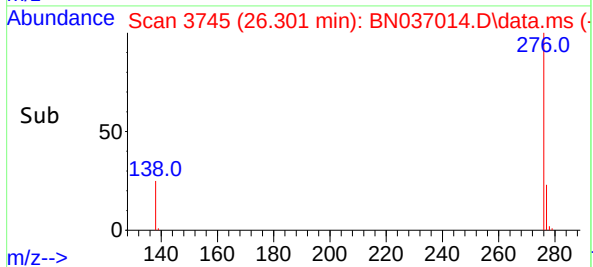
Tgt Ion:276 Resp: 4514

Ion Ratio Lower Upper

276 100

277 26.9 20.2 30.4

138 30.4 22.0 33.0





CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN042825.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Mon Apr 28 15:35:03 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN036923.D 0.2 =BN036924.D 0.4 =BN036925.D 0.8 =BN036926.D 1.6 =BN036927.D 3.2 =BN036928.D 5.0 =BN036929.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	0.452	0.489	0.551	0.506	0.537	0.489	0.465	0.498	7.23
3)	n-Nitrosodimet...	0.903	0.998	1.010	0.957	1.034	0.952	0.918	0.967	5.01
4) S	2-Fluorophenol	1.050	1.056	1.118	0.946	1.040	0.982	0.970	1.023	5.86
5) S	Phenol-d6	1.270	1.237	1.337	1.151	1.294	1.255	1.272	1.259	4.57
6)	bis(2-Chloroet...	1.174	1.123	1.170	1.139	1.240	1.162	1.162	1.167	3.17
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.400	0.401	0.411	0.404	0.446	0.432	0.436	0.418	4.52
9)	Naphthalene	1.155	1.147	1.155	1.132	1.225	1.170	1.165	1.164	2.56
10)	Hexachlorobuta...	0.260	0.250	0.253	0.249	0.262	0.248	0.240	0.252	2.99
11) SURR	2-Methylnaphth...	0.540	0.532	0.541	0.543	0.596	0.575	0.589	0.559	4.75
12)	2-Methylnaphth...	0.716	0.713	0.719	0.735	0.804	0.782	0.798	0.753	5.41
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.156	0.173	0.177	0.175	0.187	0.184	0.196	0.178	7.18
15) S	2-Fluorobiphenyl	1.877	1.975	2.055	1.690	2.023	1.986	1.928	1.933	6.32
16)	Acenaphthylene	1.876	1.850	1.907	1.884	2.067	2.035	2.066	1.955	4.93
17)	Acenaphthene	1.264	1.270	1.275	1.248	1.333	1.295	1.305	1.284	2.22
18)	Fluorene	1.604	1.612	1.624	1.658	1.788	1.720	1.752	1.680	4.39
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.083	0.090	0.096	0.113	0.120	0.134	0.106		18.55
21)	4-Bromophenyl-...	0.260	0.263	0.262	0.260	0.282	0.272	0.270	0.267	3.11
22)	Hexachlorobenzene	0.301	0.289	0.300	0.280	0.303	0.293	0.282	0.293	3.18
23)	Atrazine	0.193	0.198	0.199	0.217	0.227	0.226	0.248	0.215	9.20
24)	Pentachlorophenol	0.160	0.136	0.144	0.145	0.163	0.168	0.181	0.157	10.06
25)	Phenanthrene	1.309	1.274	1.299	1.280	1.387	1.346	1.347	1.320	3.13
26)	Anthracene	1.131	1.108	1.147	1.138	1.275	1.261	1.299	1.194	6.74
27) SURR	Fluoranthene-d10	0.993	1.004	0.991	1.016	1.087	1.053	1.115	1.037	4.74
28)	Fluoranthene	1.387	1.380	1.399	1.471	1.578	1.530	1.613	1.480	6.46
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.919	1.942	1.958	1.802	2.073	1.969	1.823	1.927	4.77
31) S	Terphenyl-d14	0.974	0.942	0.946	0.893	1.005	0.952	0.897	0.944	4.22
32)	Benzo(a)anthra...	1.402	1.407	1.429	1.422	1.583	1.509	1.561	1.473	5.19
33)	Chrysene	1.517	1.576	1.637	1.582	1.700	1.572	1.536	1.589	3.91
34)	Bis(2-ethylhex...	0.949	0.847	0.834	0.784	0.804	0.782	0.866	0.838	6.96
35) I	Perylene-d12	-----ISTD-----								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\

Method File : 8270-SIM-BN042825.M

36)	Indeno(1,2,3-c...	1.595	1.571	1.712	1.503	1.720	1.724	1.609	1.634	5.29
37)	Benzo(b)fluora...	1.580	1.552	1.634	1.628	1.796	1.758	1.825	1.682	6.50
38)	Benzo(k)fluora...	1.601	1.569	1.648	1.641	1.812	1.784	1.785	1.691	5.89
39) C	Benzo(a)pyrene	1.315	1.301	1.361	1.315	1.463	1.447	1.477	1.383	5.57
40)	Dibenzo(a,h)an...	1.229	1.241	1.349	1.176	1.357	1.379	1.268	1.286	5.96
41)	Benzo(g,h,i)pe...	1.459	1.405	1.515	1.305	1.495	1.470	1.339	1.427	5.61

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036923.D
 Acq On : 28 Apr 2025 11:35
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 04/29/2025
 Supervised By :Jagrut Upadhyay 04/29/2025

Quant Time: Apr 28 15:11:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:11:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2671	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	6571	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3486	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6515	0.400	ng	0.00
29) Chrysene-d12	21.215	240	4809	0.400	ng	0.00
35) Perylene-d12	23.427	264	4185	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	701	0.102	ng	0.00
5) Phenol-d6	6.802	99	848	0.101	ng	0.00
8) Nitrobenzene-d5	8.781	82	657	0.096	ng	0.00
11) 2-Methylnaphthalene-d10	12.011	152	887	0.097	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	136	0.089	ng	0.00
15) 2-Fluorobiphenyl	12.898	172	1636	0.097	ng	0.00
27) Fluoranthene-d10	19.059	212	1617	0.097	ng	0.00
31) Terphenyl-d14	19.662	244	1171	0.102	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.155	88	302m	0.090	ng	
3) n-Nitrosodimethylamine	3.473	42	603	0.093	ng	# 92
6) bis(2-Chloroethyl)ether	7.062	93	784	0.101	ng	98
9) Naphthalene	10.458	128	1897	0.099	ng	# 93
10) Hexachlorobutadiene	10.756	225	427	0.102	ng	# 99
12) 2-Methylnaphthalene	12.082	142	1176	0.096	ng	98
16) Acenaphthylene	13.999	152	1635	0.097	ng	100
17) Acenaphthene	14.341	154	1102	0.099	ng	98
18) Fluorene	15.325	166	1398	0.096	ng	99
21) 4-Bromophenyl-phenylether	16.227	248	424	0.098	ng	95
22) Hexachlorobenzene	16.338	284	490	0.102	ng	97
23) Atrazine	16.500	200	314	0.092	ng	# 92
24) Pentachlorophenol	16.686	266	261	0.105	ng	92
25) Phenanthrene	17.058	178	2132	0.099	ng	98
26) Anthracene	17.157	178	1842	0.096	ng	100
28) Fluoranthene	19.091	202	2259	0.095	ng	97
30) Pyrene	19.453	202	2307	0.099	ng	98
32) Benzo(a)anthracene	21.197	228	1685	0.096	ng	96
33) Chrysene	21.251	228	1824	0.095	ng	96
34) Bis(2-ethylhexyl)phtha...	21.144	149	1141	0.114	ng	99
36) Indeno(1,2,3-cd)pyrene	25.646	276	1669	0.097	ng	99
37) Benzo(b)fluoranthene	22.763	252	1653	0.095	ng	# 66
38) Benzo(k)fluoranthene	22.810	252	1675	0.096	ng	# 63
39) Benzo(a)pyrene	23.330	252	1376	0.096	ng	# 61
40) Dibenzo(a,h)anthracene	25.658	278	1286	0.095	ng	# 70
41) Benzo(g,h,i)perylene	26.324	276	1527	0.101	ng	# 86

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

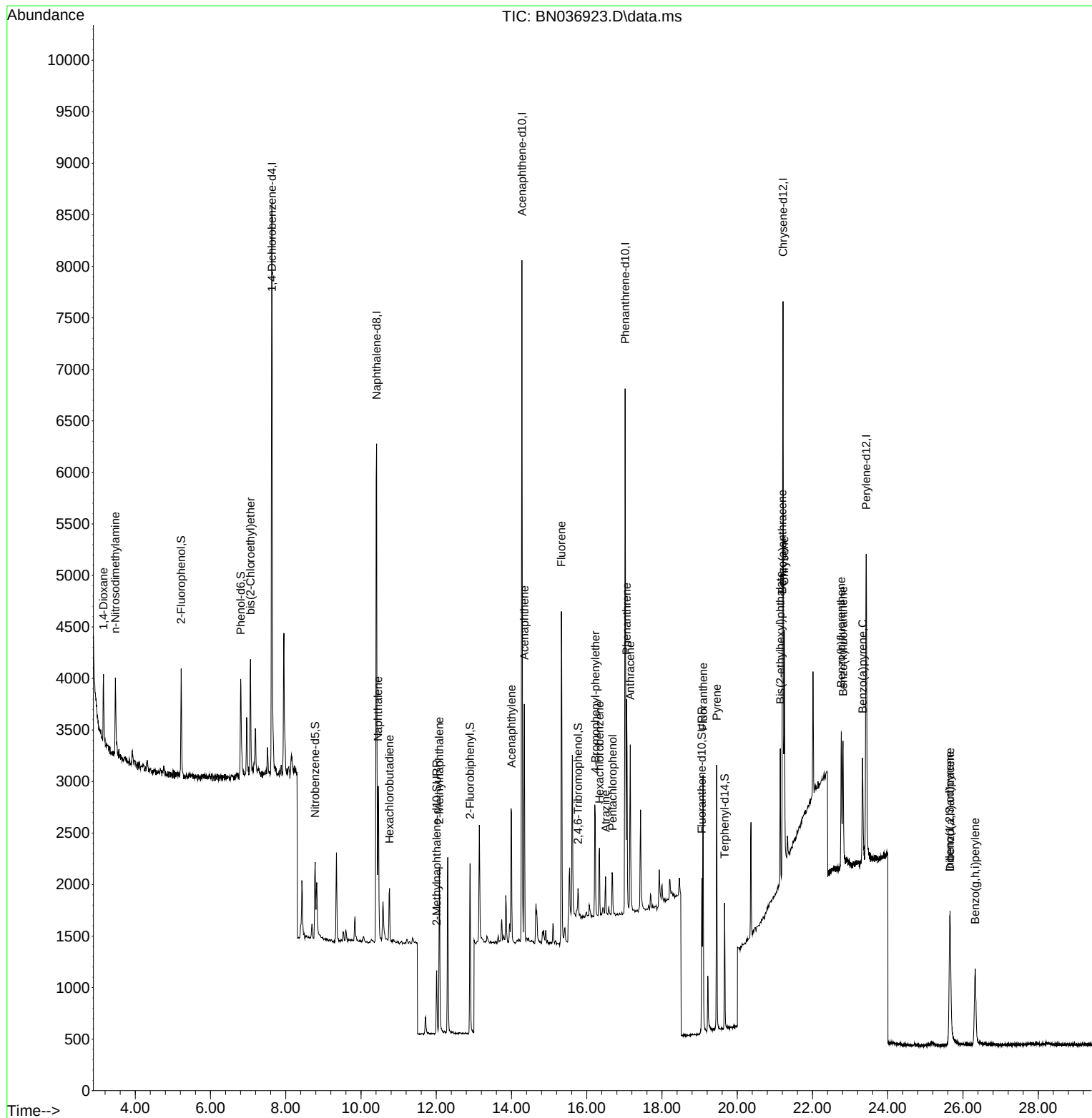
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036923.D
 Acq On : 28 Apr 2025 11:35
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

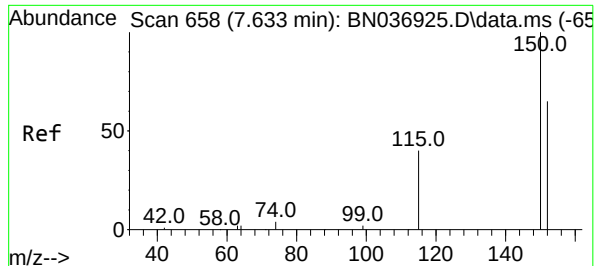
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 04/29/2025
 Supervised By :Jagrut Upadhyay 04/29/2025

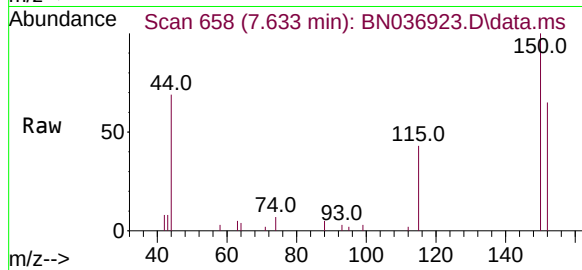
Quant Time: Apr 28 15:11:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:11:09 2025
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

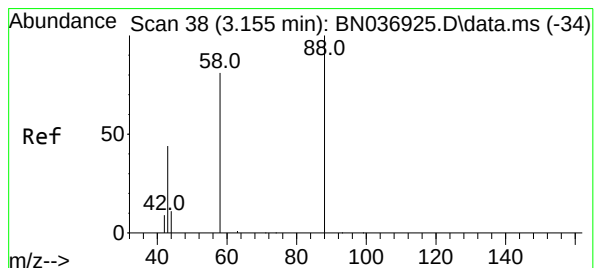
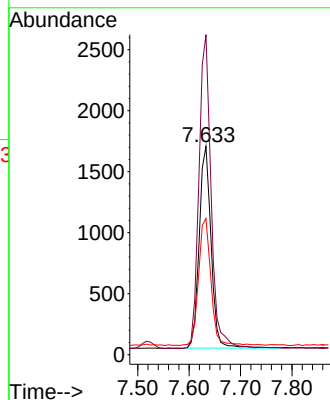
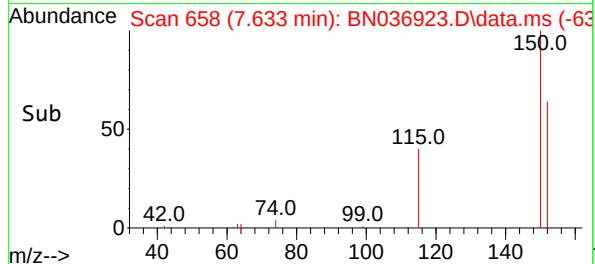
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 152 Resp: 267
Ion Ratio Lower Upper
152 100
150 153.7 121.1 181.7
115 65.4 51.8 77.6

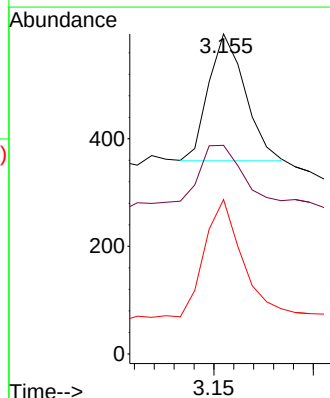
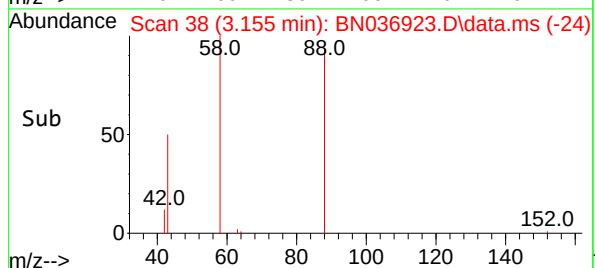
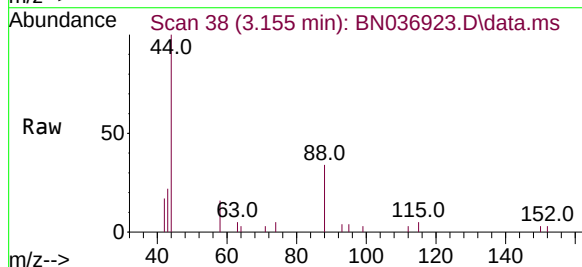
Manual Integrations
APPROVED

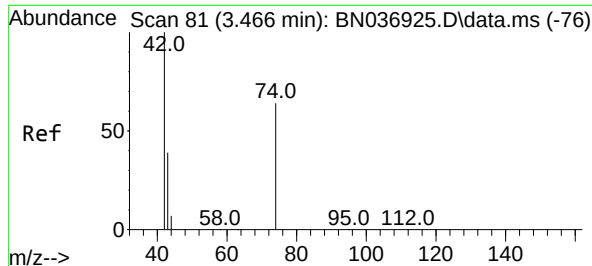
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#2
1,4-Dioxane
Concen: 0.090 ng m
RT: 3.155 min Scan# 38
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

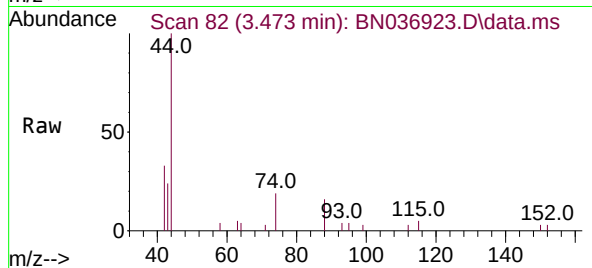
Tgt Ion: 88 Resp: 302
Ion Ratio Lower Upper
88 100
43 74.8 37.9 56.9#
58 106.0 65.8 98.6#





#3
n-Nitrosodimethylamine
Concen: 0.093 ng
RT: 3.473 min Scan# 81
Delta R.T. 0.007 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

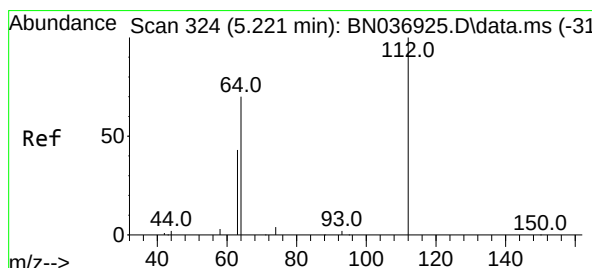
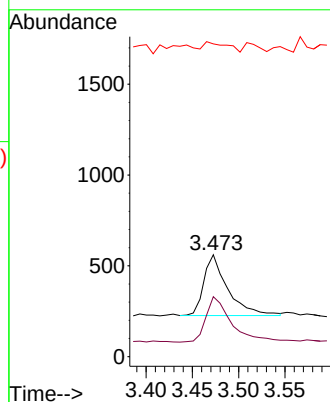
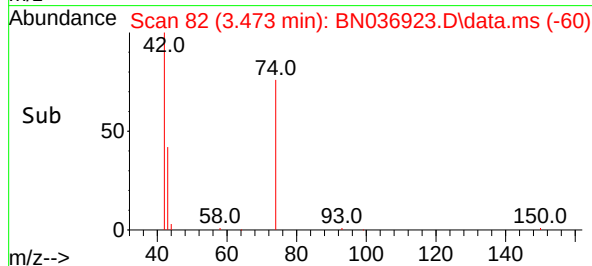
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 42 Resp: 600
Ion Ratio Lower Upper
42 100
74 80.8 59.9 89.9
44 15.4 7.5 11.3

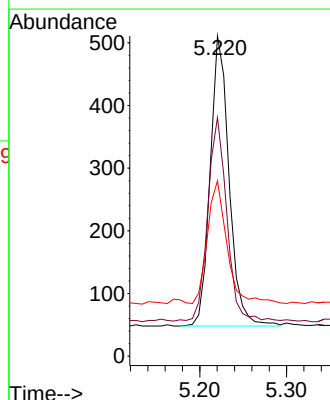
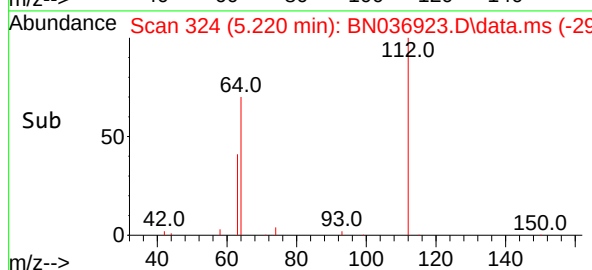
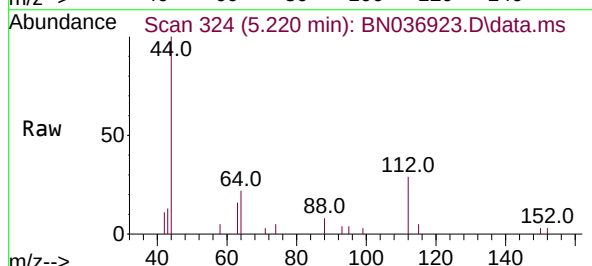
Manual Integrations
APPROVED

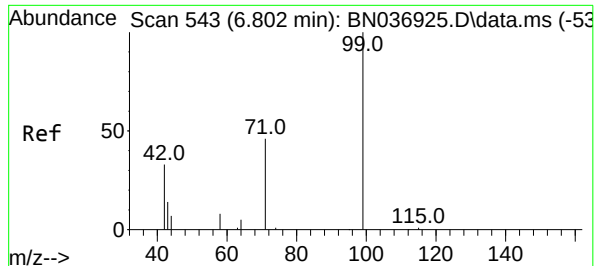
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#4
2-Fluorophenol
Concen: 0.102 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:112 Resp: 701
Ion Ratio Lower Upper
112 100
64 71.9 55.7 83.5
63 43.5 33.9 50.9





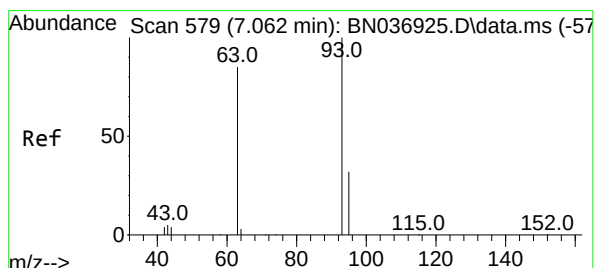
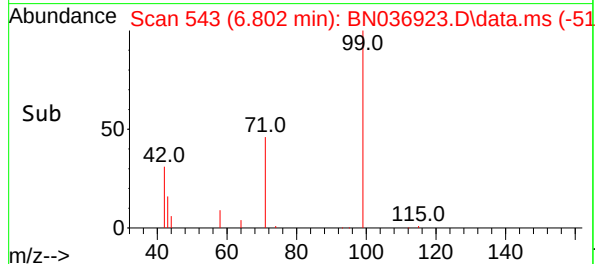
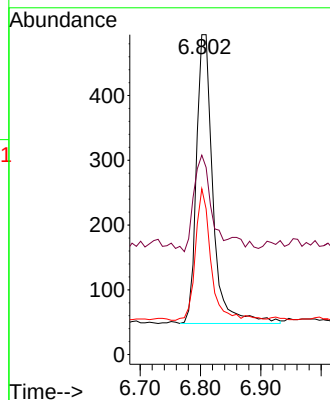
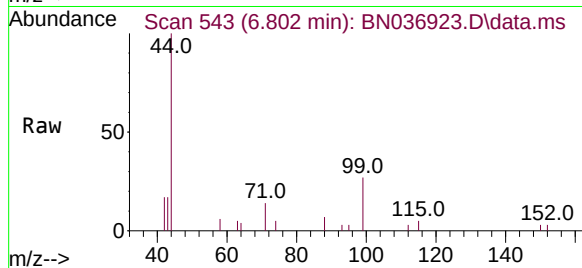
#5
Phenol-d6
Concen: 0.101 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion	Ratio	Lower	Upper
99	100		
42	35.0	29.6	44.4
71	41.5	36.0	54.0

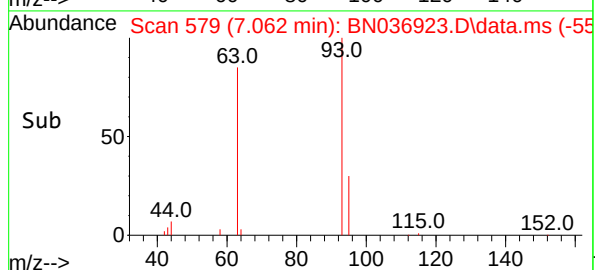
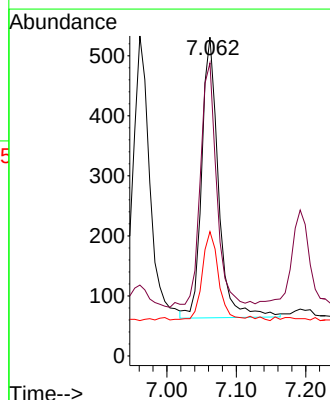
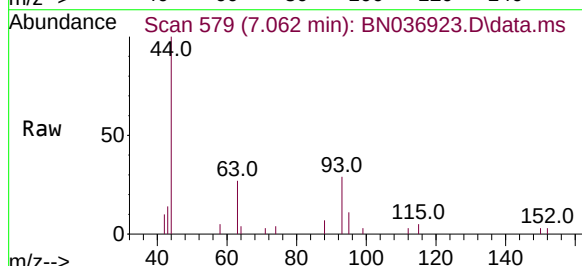
Manual Integrations
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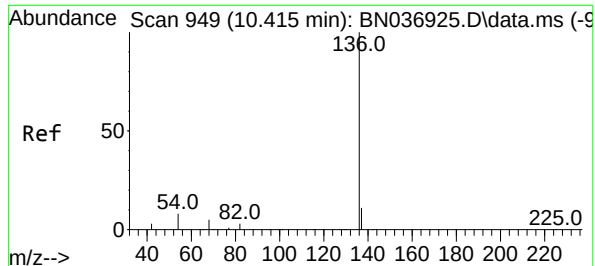
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.101 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

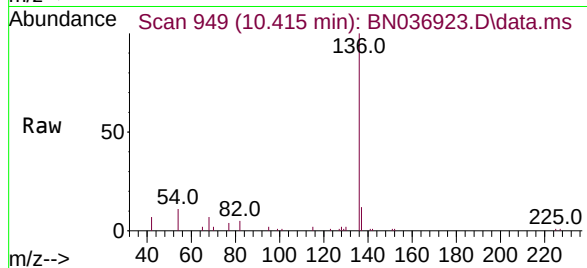
Tgt Ion	Ratio	Lower	Upper
93	100		
63	85.7	69.0	103.6
95	29.5	25.4	38.0





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

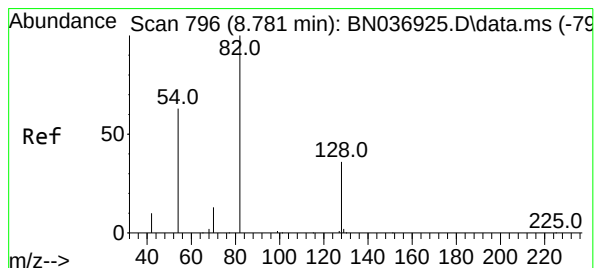
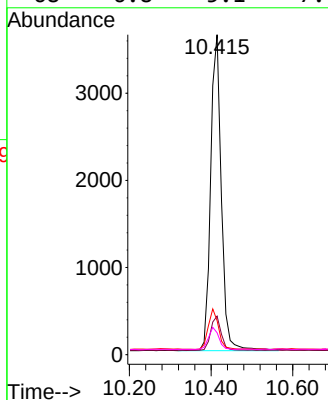
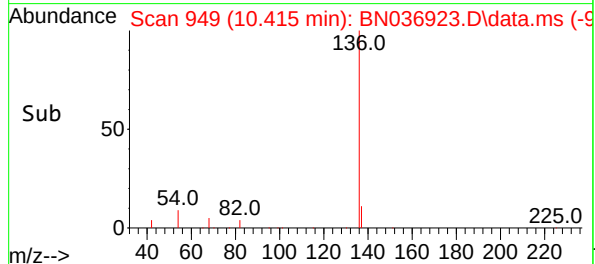
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:136 Resp: 657
Ion Ratio Lower Upper
136 100
137 12.0 9.7 14.5
54 10.6 8.0 12.0
68 6.8 5.1 7.7

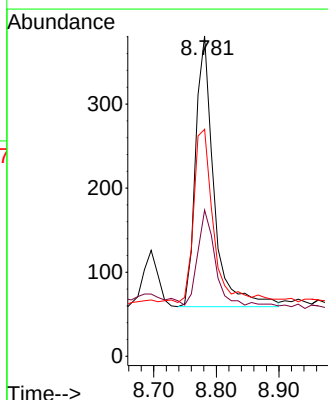
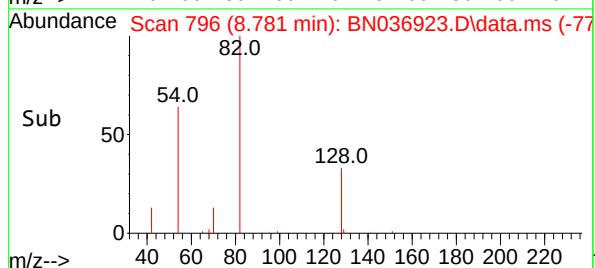
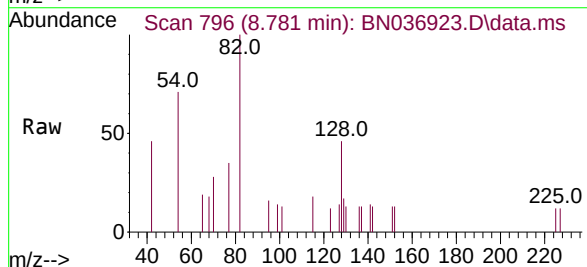
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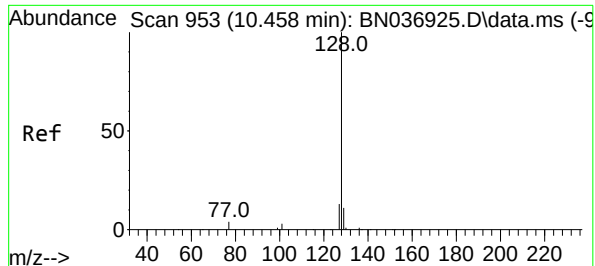
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#8
Nitrobenzene-d5
Concen: 0.096 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion: 82 Resp: 657
Ion Ratio Lower Upper
82 100
128 45.7 30.7 46.1
54 70.9 52.1 78.1





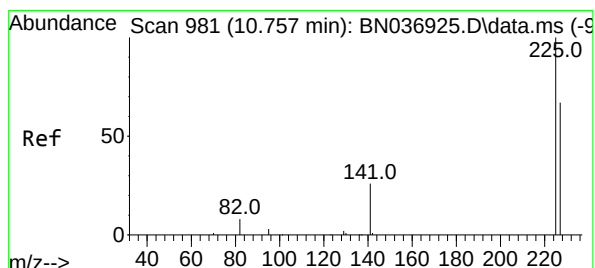
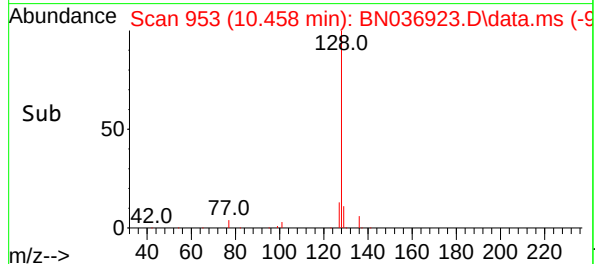
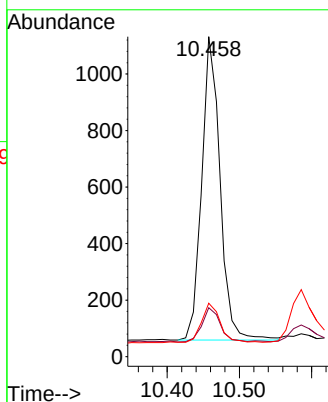
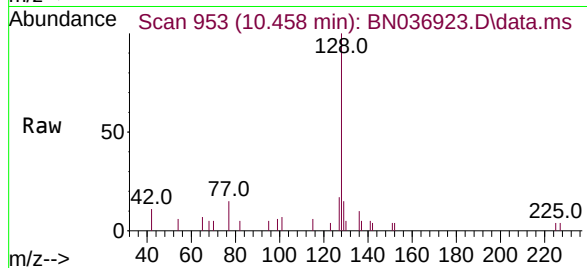
#9
Naphthalene
Concen: 0.099 ng
RT: 10.458 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion	Ratio	Lower	Upper
128	100		
129	15.3	9.8	14.6
127	16.7	11.4	17.2

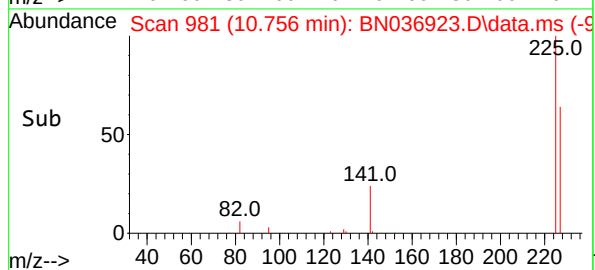
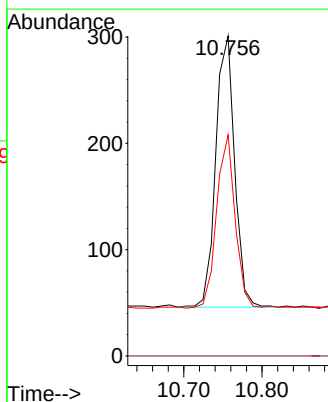
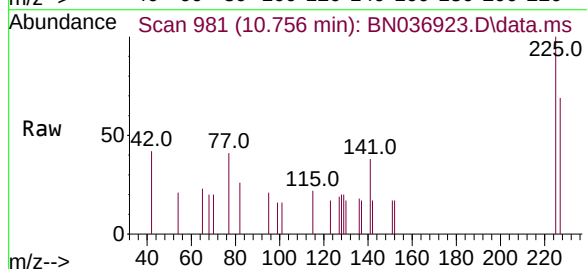
Manual Integrations
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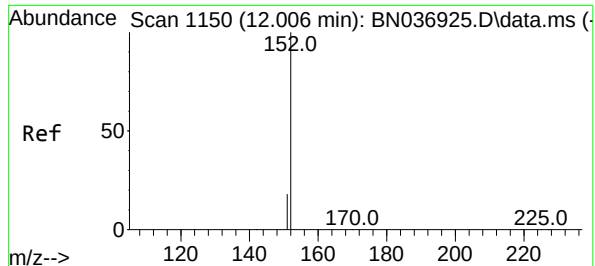
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#10
Hexachlorobutadiene
Concen: 0.102 ng
RT: 10.756 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

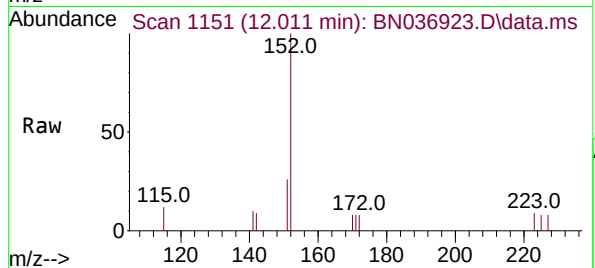
Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.2	52.2	78.4





#11
2-Methylnaphthalene-d10
Concen: 0.097 ng
RT: 12.011 min Scan# 1151
Delta R.T. 0.005 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

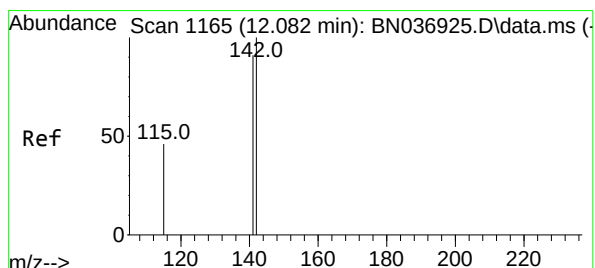
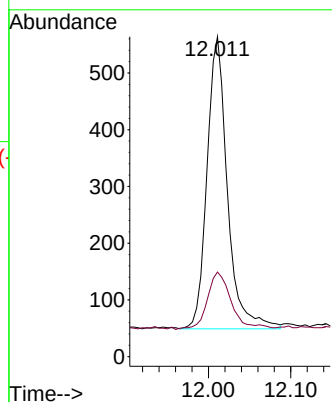
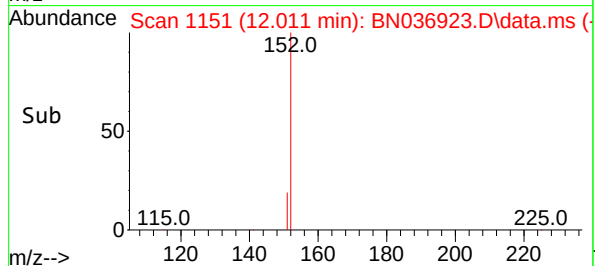
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 88
Ion Ratio Lower Upper
152 100
151 23.2 16.9 25.3

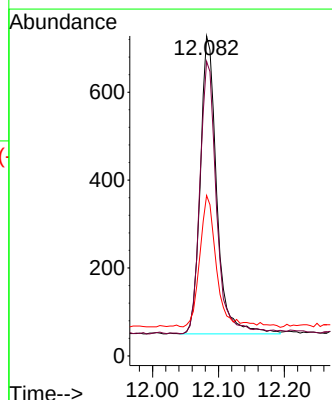
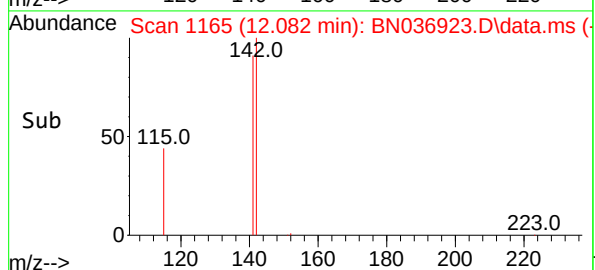
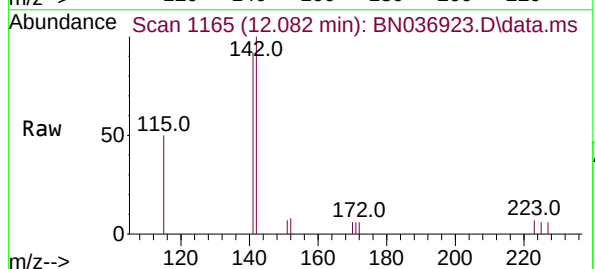
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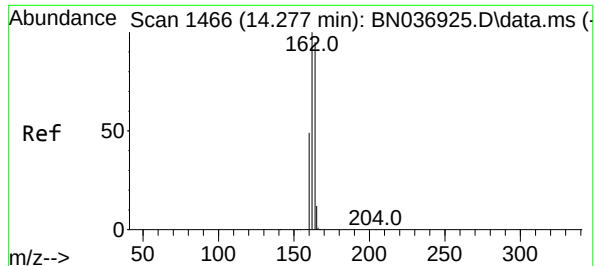
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#12
2-Methylnaphthalene
Concen: 0.096 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

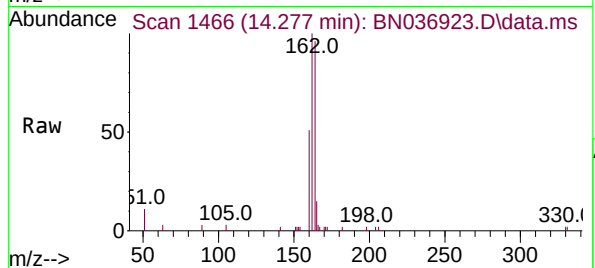
Tgt Ion:142 Resp: 1176
Ion Ratio Lower Upper
142 100
141 92.0 72.8 109.2
115 50.1 38.2 57.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

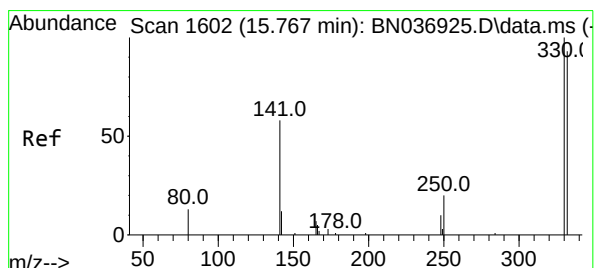
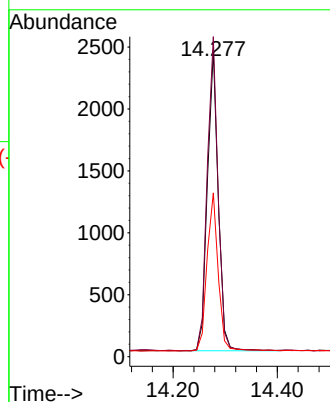
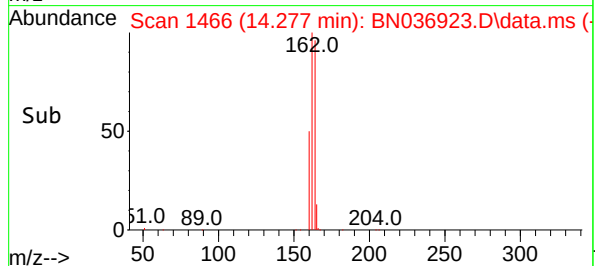
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



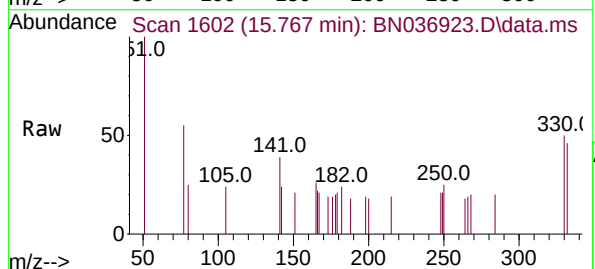
Tgt Ion:164 Resp: 3480
Ion Ratio Lower Upper
164 100
162 104.4 83.8 125.8
160 53.4 42.0 63.0

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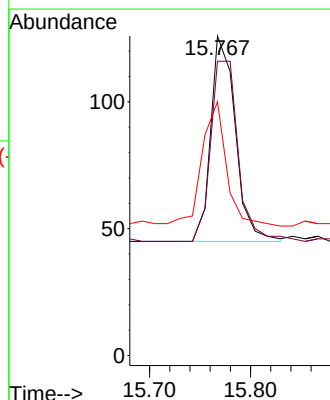
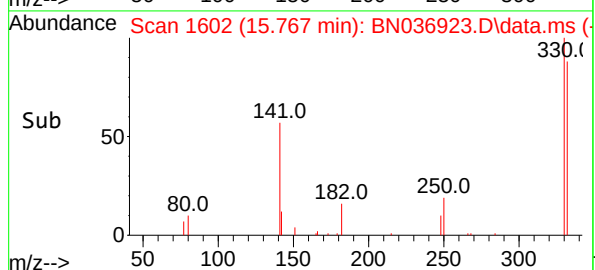
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025

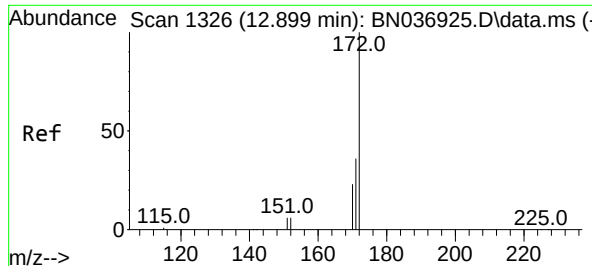


#14
2,4,6-Tribromophenol
Concen: 0.089 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35



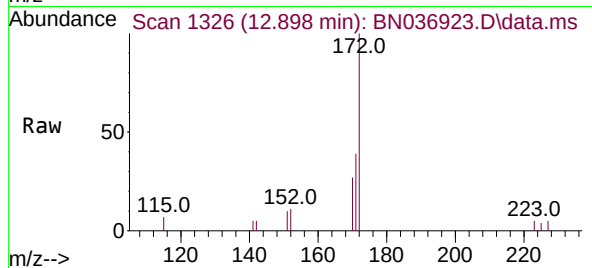
Tgt Ion:330 Resp: 136
Ion Ratio Lower Upper
330 100
332 99.3 76.3 114.5
141 61.0 45.4 68.2





#15
2-Fluorobiphenyl
Concen: 0.097 ng
RT: 12.898 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

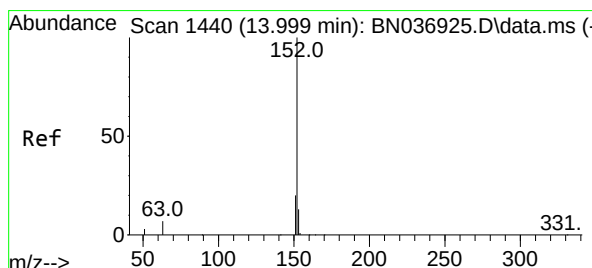
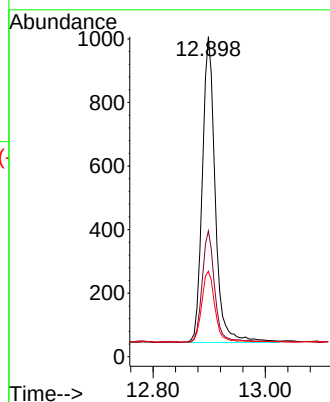
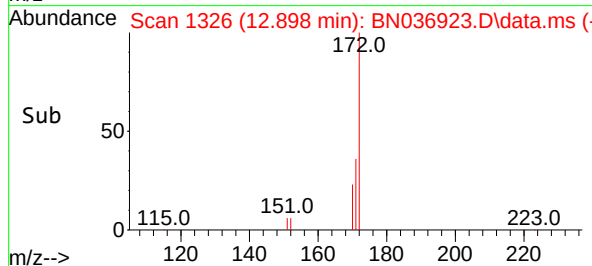
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:172 Resp: 1630
Ion Ratio Lower Upper
172 100
171 39.3 29.4 44.0
170 26.7 19.4 29.0

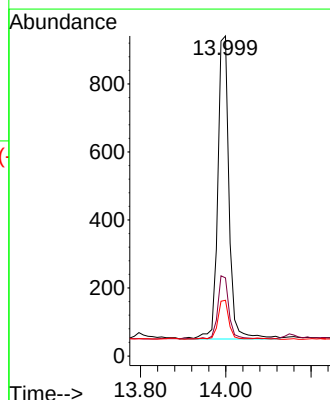
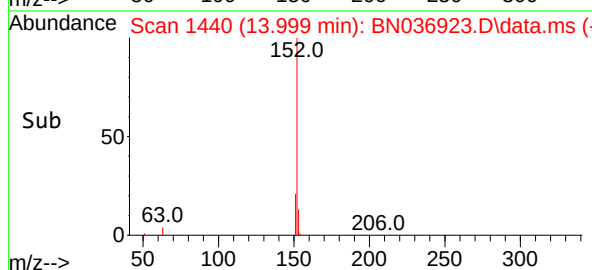
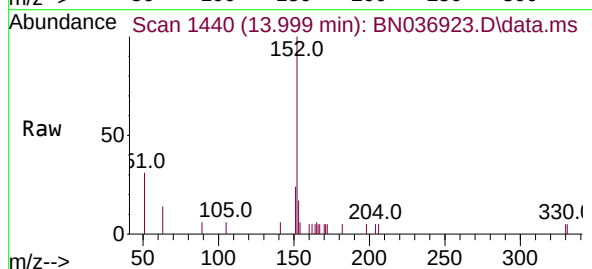
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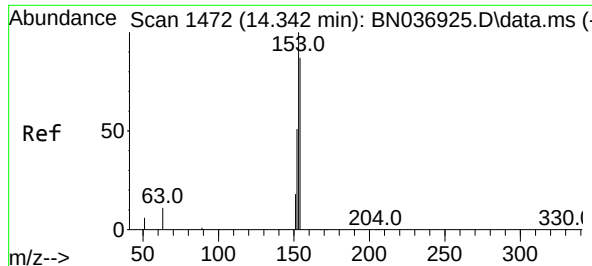
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#16
Acenaphthylene
Concen: 0.097 ng
RT: 13.999 min Scan# 1440
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

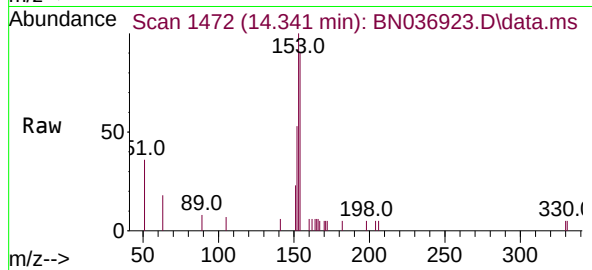
Tgt Ion:152 Resp: 1635
Ion Ratio Lower Upper
152 100
151 20.0 16.0 24.0
153 12.7 10.2 15.2





#17
Acenaphthene
Concen: 0.099 ng
RT: 14.341 min Scan# 1472
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

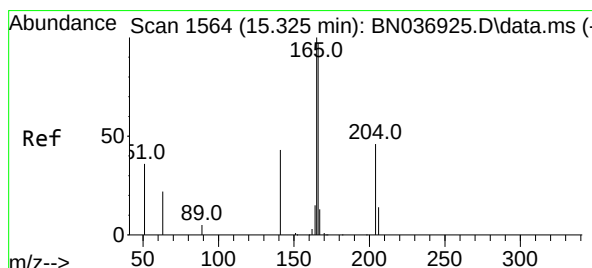
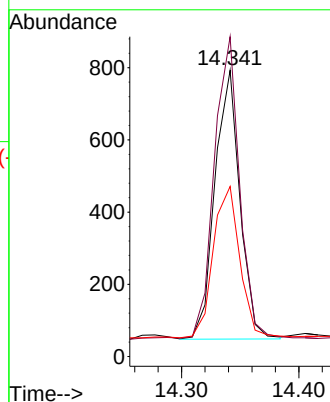
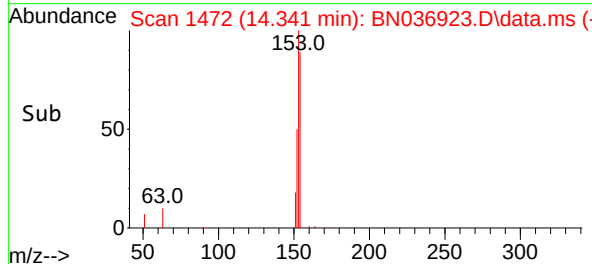
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:154 Resp: 1102
Ion Ratio Lower Upper
154 100
153 115.4 93.4 140.2
152 60.2 49.5 74.3

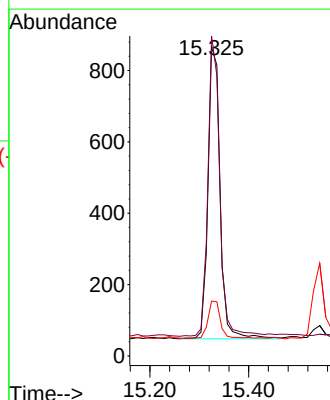
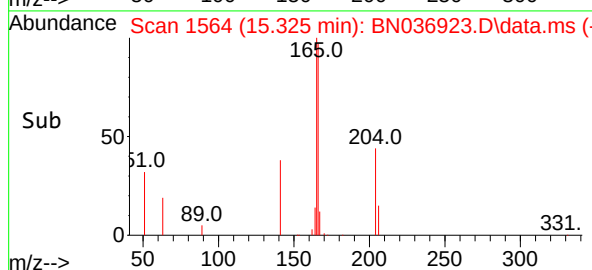
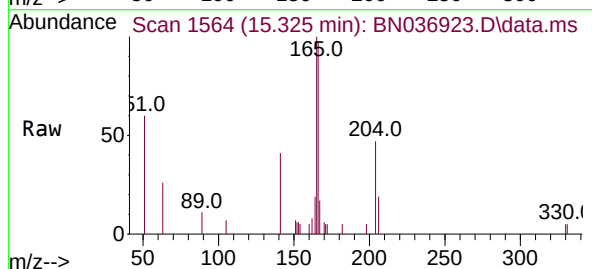
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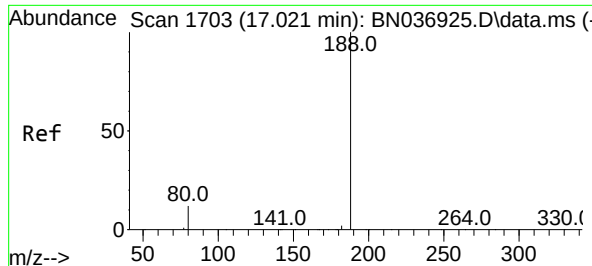
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#18
Fluorene
Concen: 0.096 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:166 Resp: 1398
Ion Ratio Lower Upper
166 100
165 99.7 80.8 121.2
167 13.4 10.8 16.2





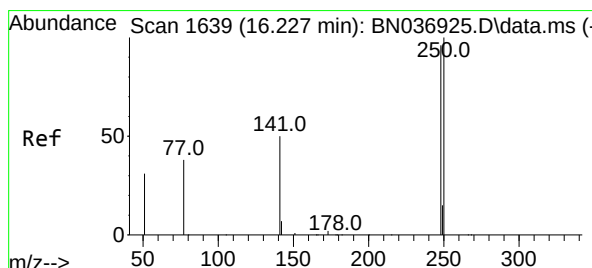
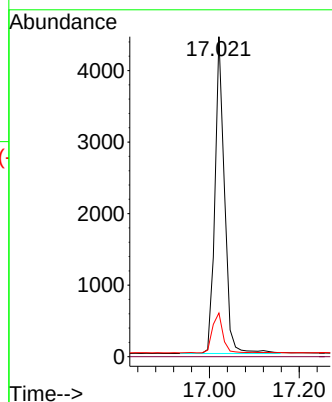
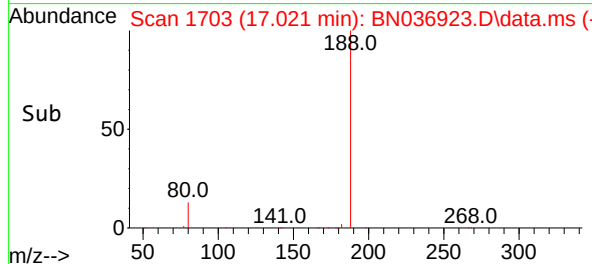
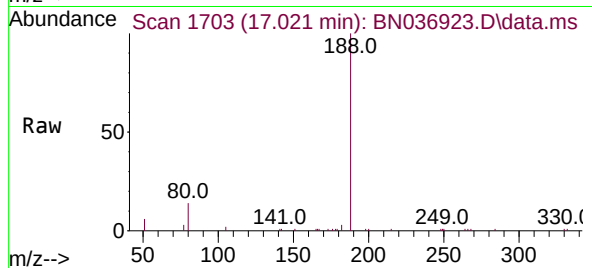
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:188 Resp: 651
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 13.7 10.7 16.1

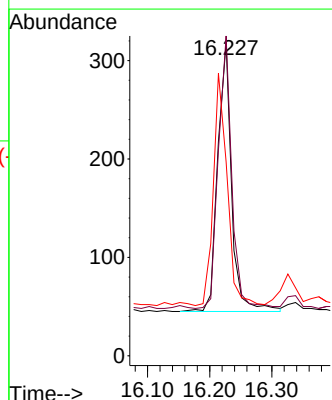
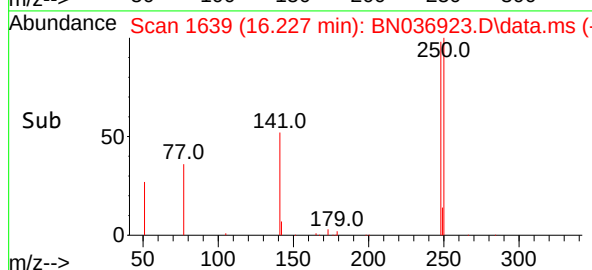
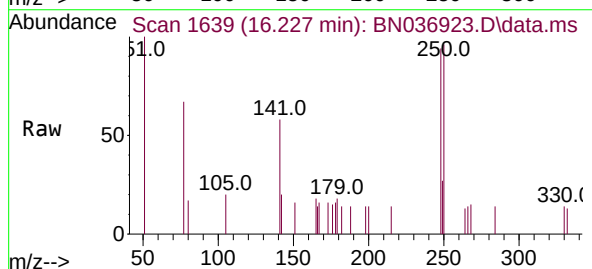
Manual Integrations
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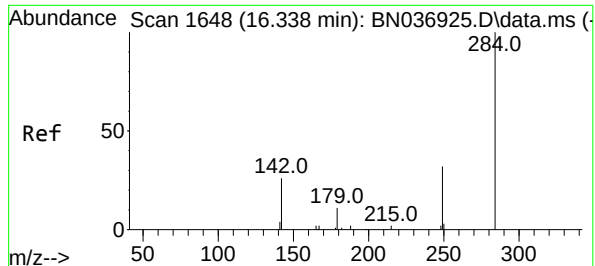
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#21
4-Bromophenyl-phenylether
Concen: 0.098 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:248 Resp: 424
Ion Ratio Lower Upper
248 100
250 102.2 83.7 125.5
141 61.9 43.8 65.8





#22

Hexachlorobenzene

Concen: 0.102 ng

RT: 16.338 min Scan# 1648

Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

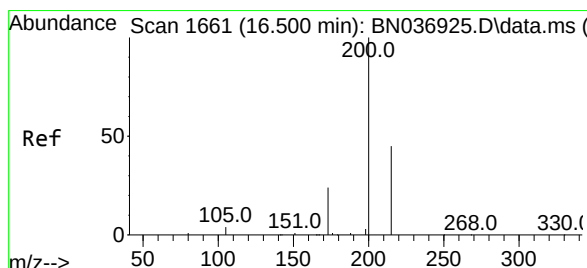
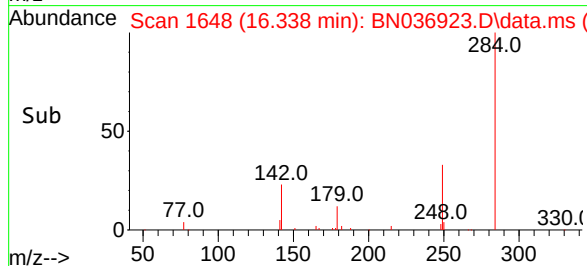
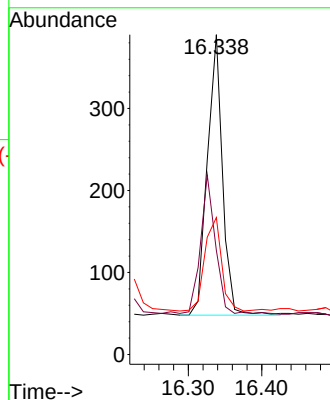
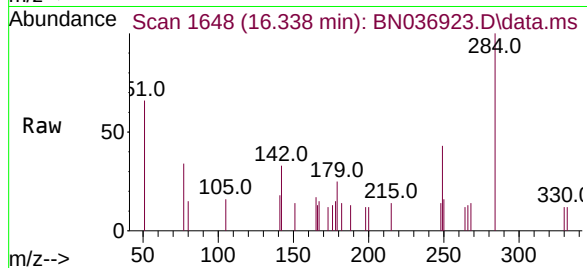
Tgt Ion:284 Resp: 490
Ion Ratio Lower Upper
284 100
142 51.0 40.0 60.0
249 37.8 28.2 42.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#23

Atrazine

Concen: 0.092 ng

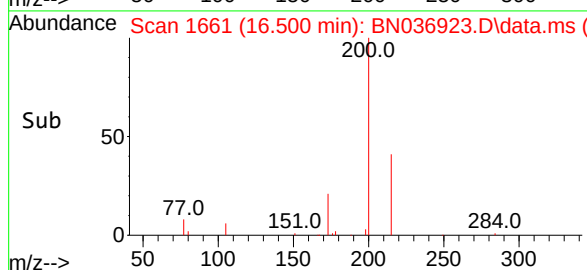
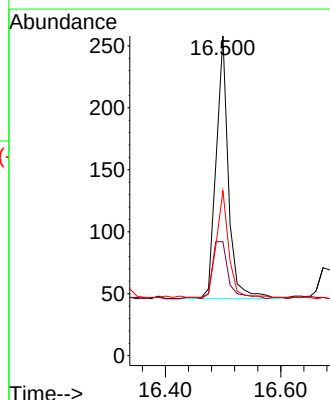
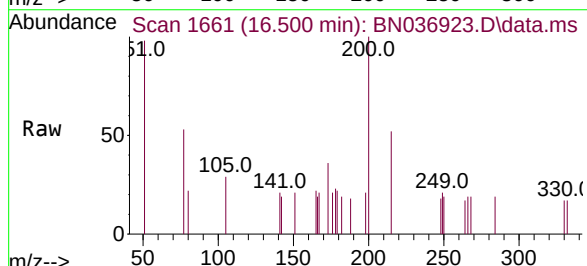
RT: 16.500 min Scan# 1661

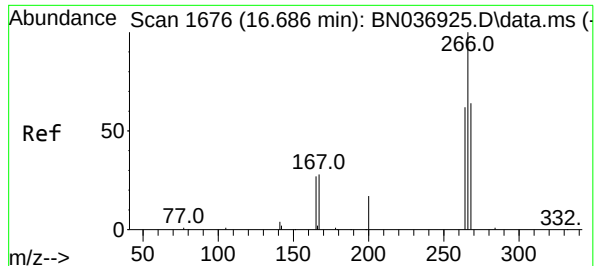
Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

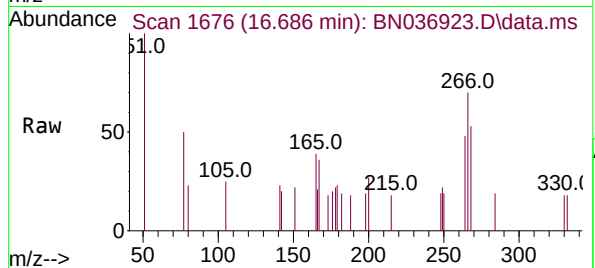
Tgt Ion:200 Resp: 314
Ion Ratio Lower Upper
200 100
173 35.7 22.4 33.6#
215 51.6 38.6 57.8





#24
Pentachlorophenol
Concen: 0.105 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

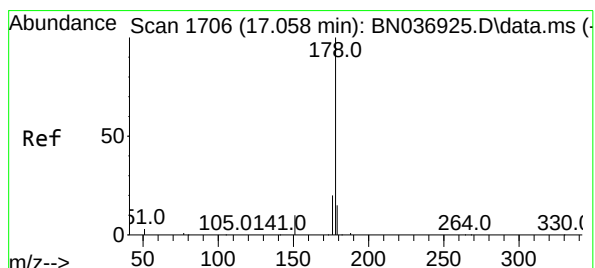
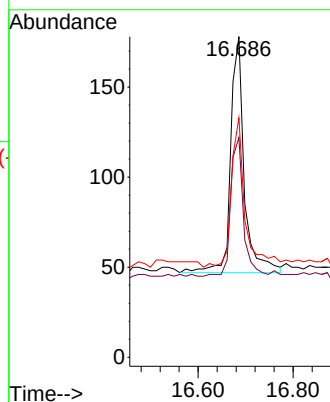
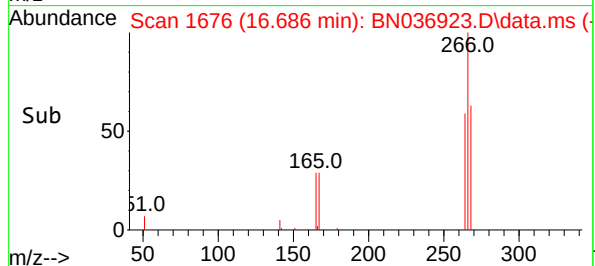
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



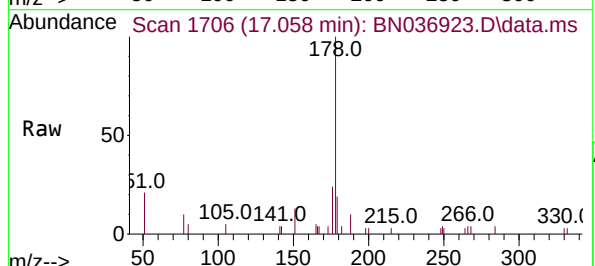
Tgt Ion: 266 Resp: 266
Ion Ratio Lower Upper
266 100
264 54.0 49.9 74.9
268 61.3 52.2 78.4

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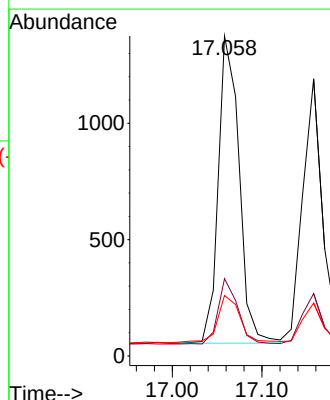
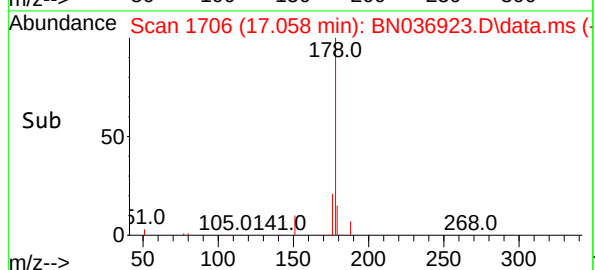
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025

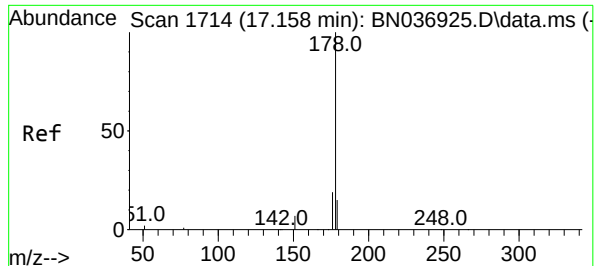


#25
Phenanthrene
Concen: 0.099 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35



Tgt Ion: 178 Resp: 2132
Ion Ratio Lower Upper
178 100
176 19.9 15.7 23.5
179 16.7 12.4 18.6





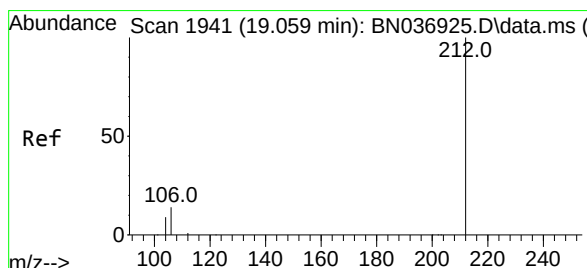
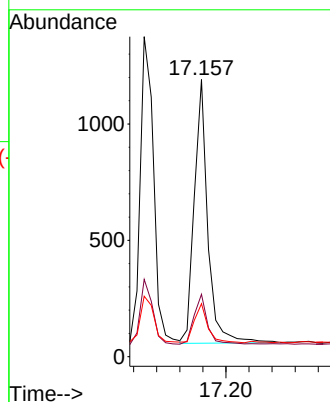
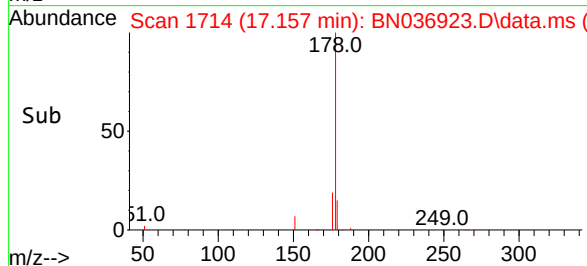
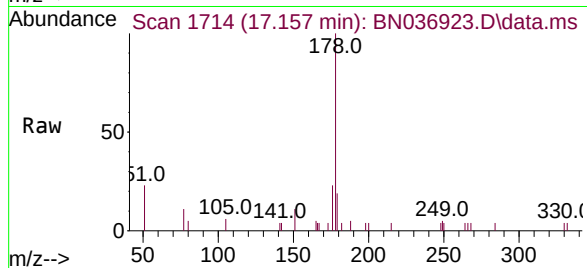
#26
Anthracene
Concen: 0.096 ng
RT: 17.157 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 184
Ion Ratio Lower Upper
178 100
176 18.8 15.3 22.9
179 15.1 12.1 18.1

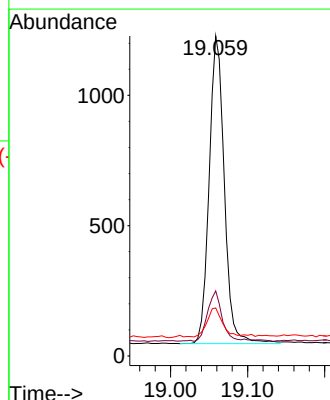
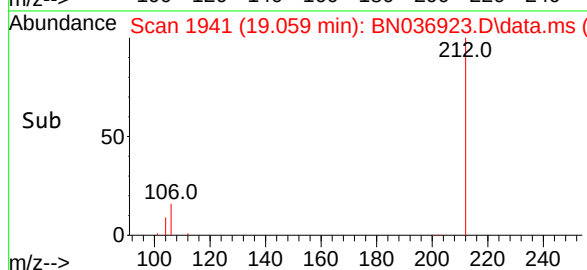
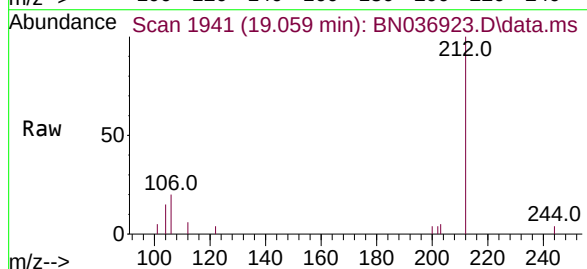
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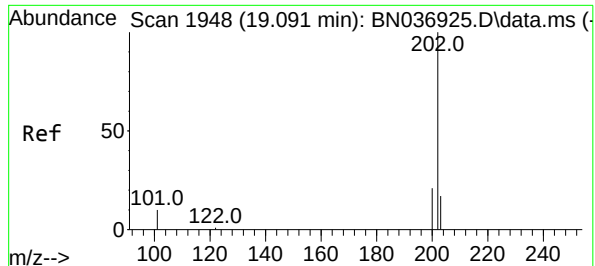
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#27
Fluoranthene-d10
Concen: 0.097 ng
RT: 19.059 min Scan# 1941
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

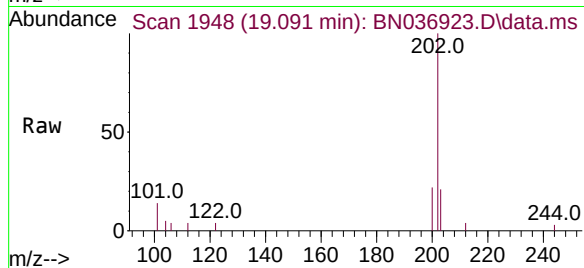
Tgt Ion:212 Resp: 1617
Ion Ratio Lower Upper
212 100
106 16.3 11.6 17.4
104 9.3 7.0 10.4





#28
Fluoranthene
Concen: 0.095 ng
RT: 19.091 min Scan# 1948
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

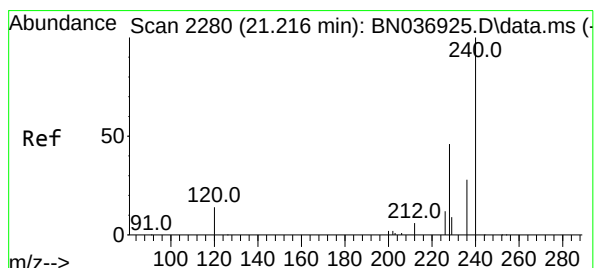
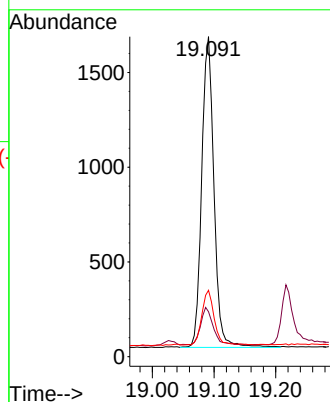
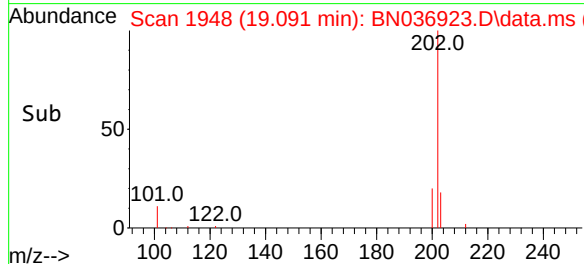
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:202 Resp: 2259
Ion Ratio Lower Upper
202 100
101 12.3 8.5 12.7
203 17.9 13.7 20.5

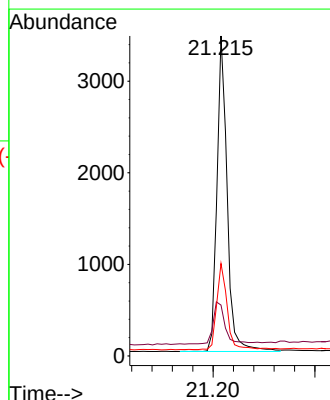
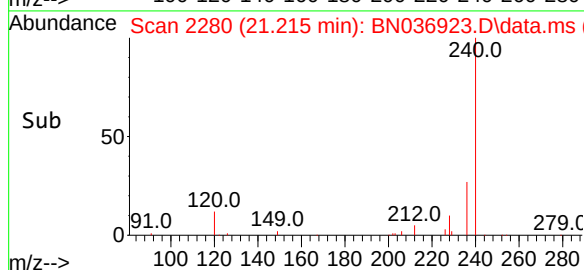
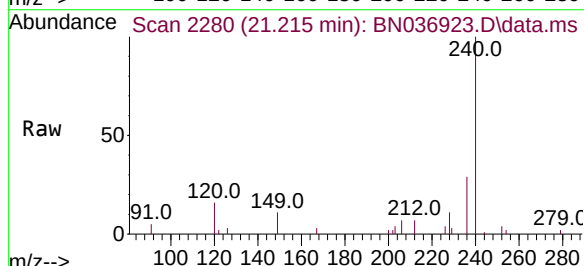
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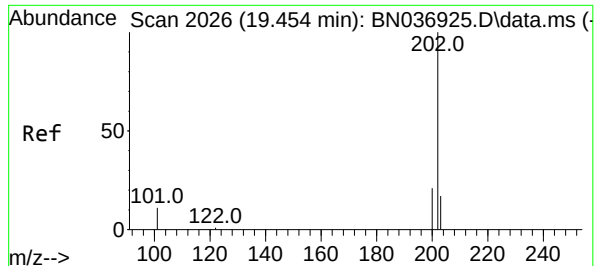
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.215 min Scan# 2280
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

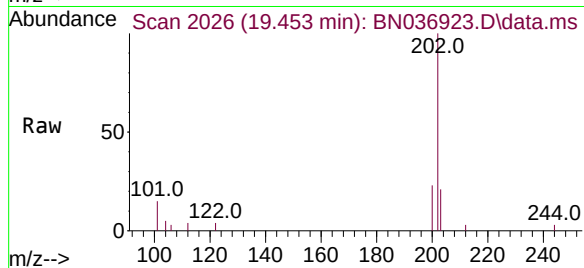
Tgt Ion:240 Resp: 4809
Ion Ratio Lower Upper
240 100
120 15.9 14.1 21.1
236 28.9 23.8 35.8





#30
Pyrene
Concen: 0.099 ng
RT: 19.453 min Scan# 2026
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

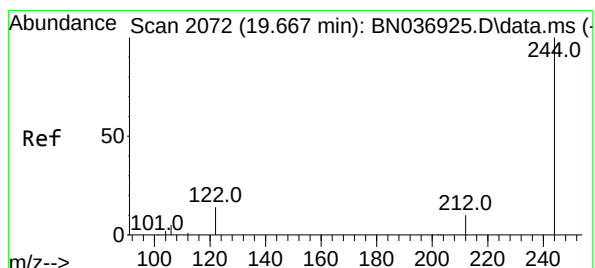
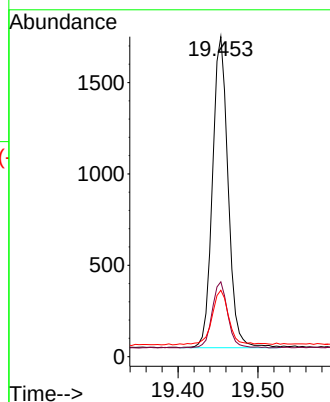
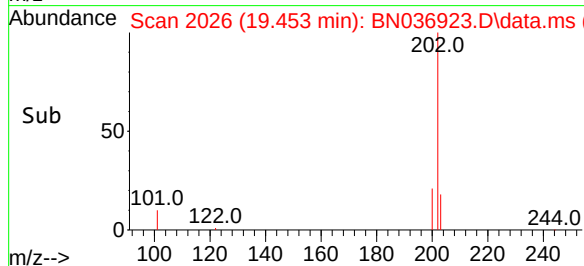
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.6
203	19.4	14.0	21.0

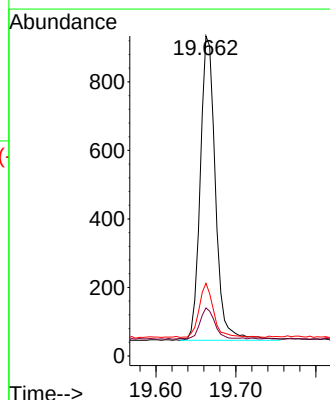
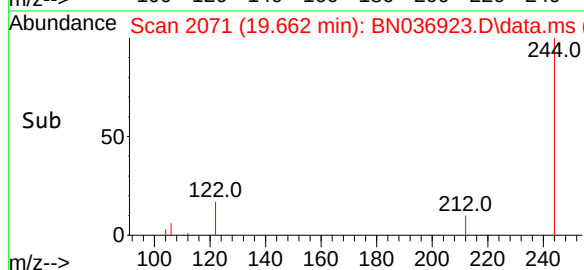
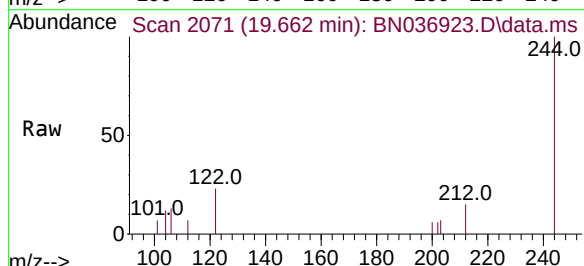
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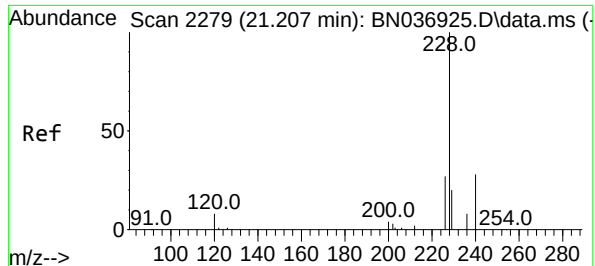
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#31
Terphenyl-d14
Concen: 0.102 ng
RT: 19.662 min Scan# 2071
Delta R.T. -0.005 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

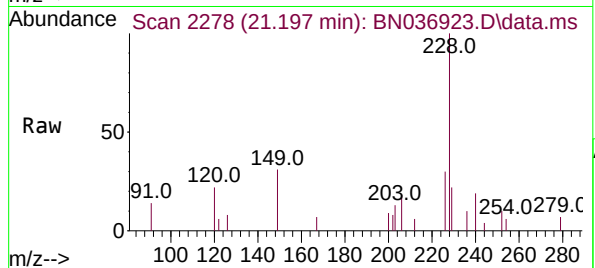
Tgt Ion	Ratio	Lower	Upper
244	100		
212	15.0	9.6	14.4#
122	22.7	12.7	19.1#





#32
Benzo(a)anthracene
Concen: 0.096 ng
RT: 21.197 min Scan# 2119
Delta R.T. -0.009 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

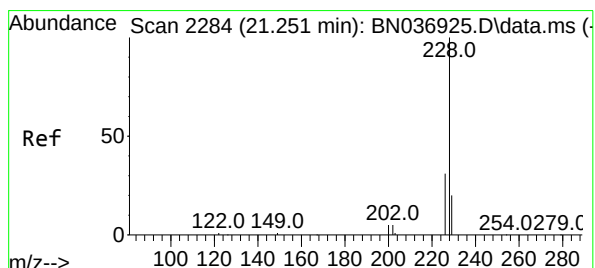
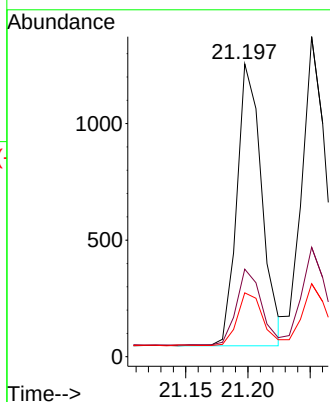
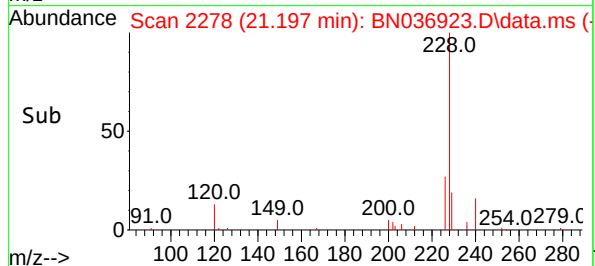
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:228 Resp: 1689
Ion Ratio Lower Upper
228 100
226 29.9 22.2 33.4
229 21.8 16.4 24.6

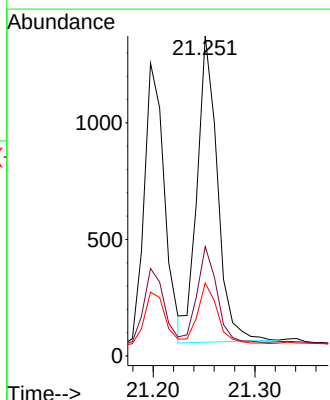
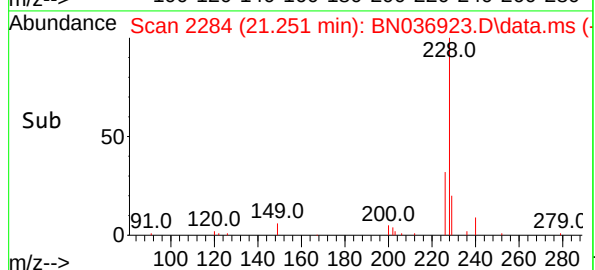
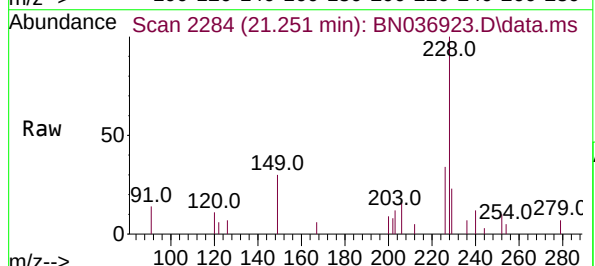
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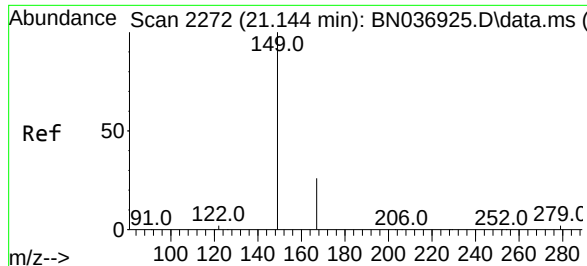
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#33
Chrysene
Concen: 0.095 ng
RT: 21.251 min Scan# 2284
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

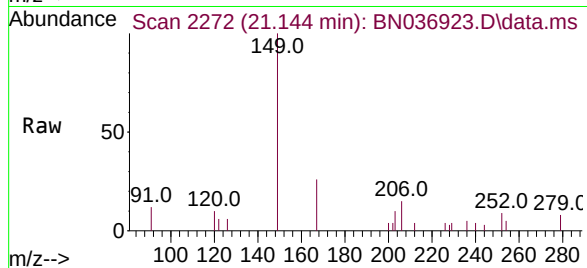
Tgt Ion:228 Resp: 1824
Ion Ratio Lower Upper
228 100
226 34.2 25.5 38.3
229 22.8 16.5 24.7





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.114 ng
RT: 21.144 min Scan# 2114
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

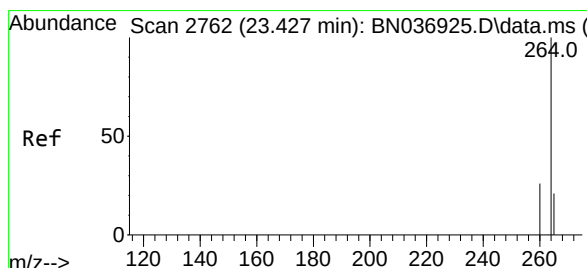
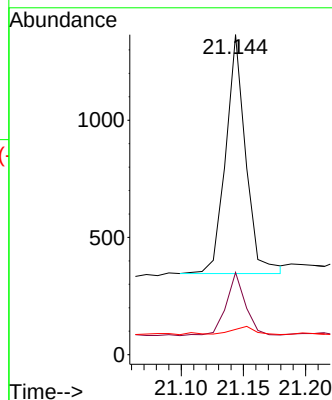
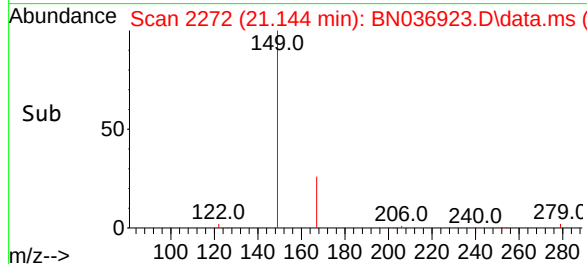
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:149 Resp: 114
Ion Ratio Lower Upper
149 100
167 25.9 21.0 31.6
279 3.7 2.7 4.1

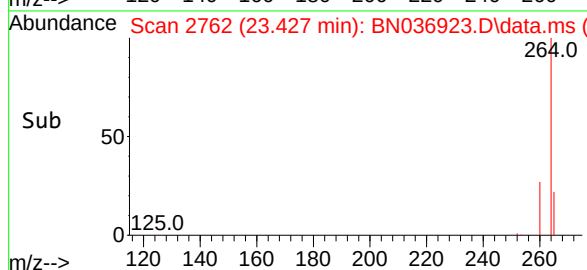
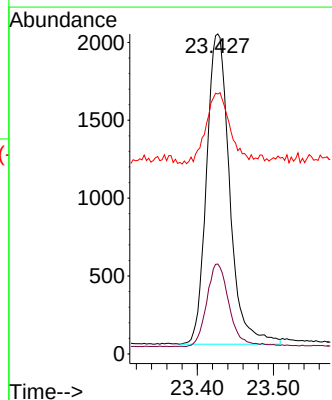
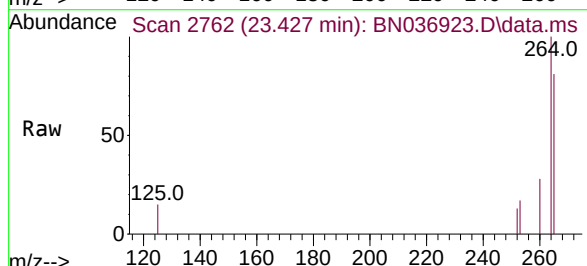
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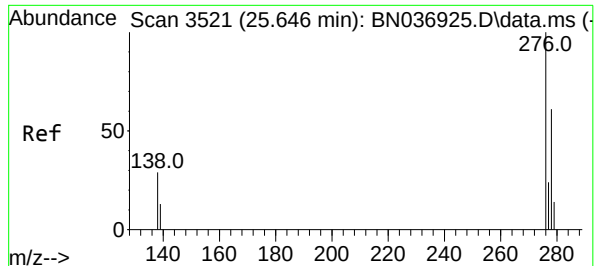
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.427 min Scan# 2762
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

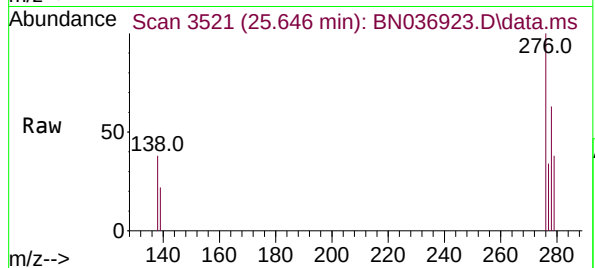
Tgt Ion:264 Resp: 4185
Ion Ratio Lower Upper
264 100
260 28.1 22.2 33.2
265 81.3 65.8 98.6





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.097 ng
RT: 25.646 min Scan# 3521
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

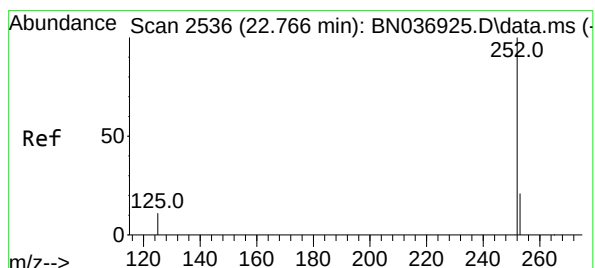
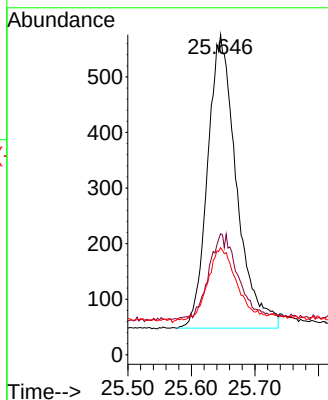
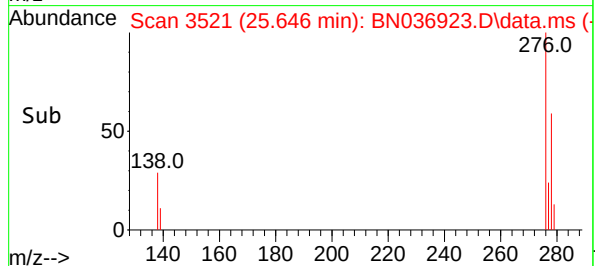
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 276 Resp: 1669
Ion Ratio Lower Upper
276 100
138 29.5 23.0 34.6
277 24.7 20.0 30.0

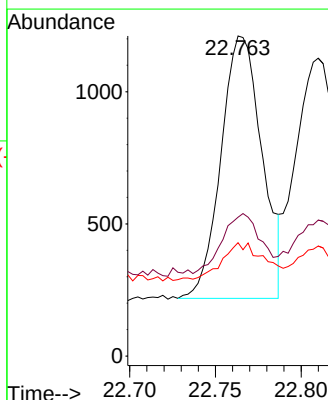
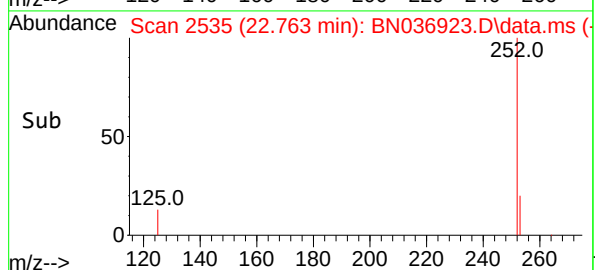
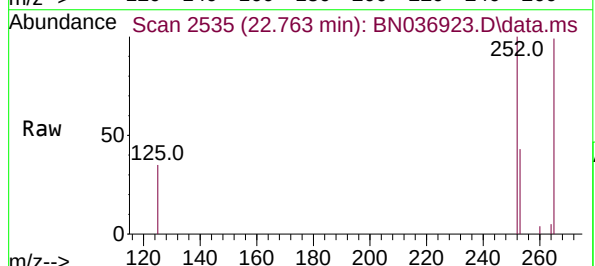
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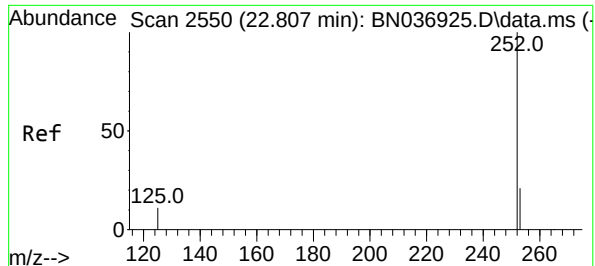
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#37
Benzo(b)fluoranthene
Concen: 0.095 ng
RT: 22.763 min Scan# 2535
Delta R.T. -0.003 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

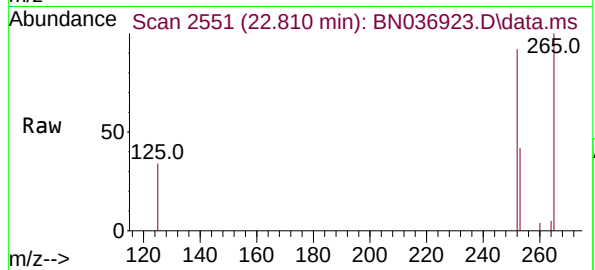
Tgt Ion: 252 Resp: 1653
Ion Ratio Lower Upper
252 100
253 43.4 22.1 33.1#
125 35.4 14.2 21.2#





#38
Benzo(k)fluoranthene
Concen: 0.096 ng
RT: 22.810 min Scan# 2551
Delta R.T. 0.003 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

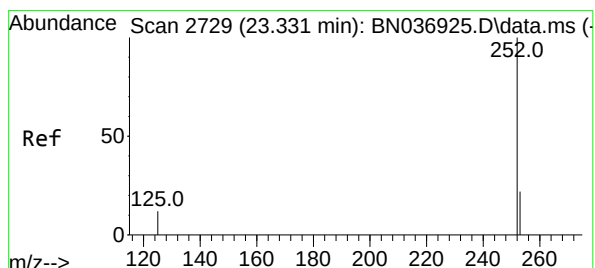
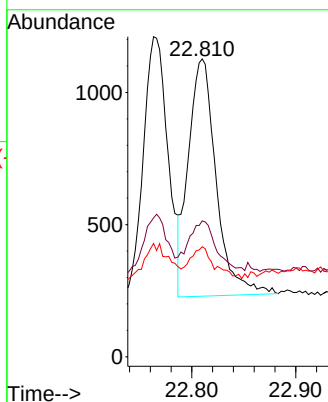
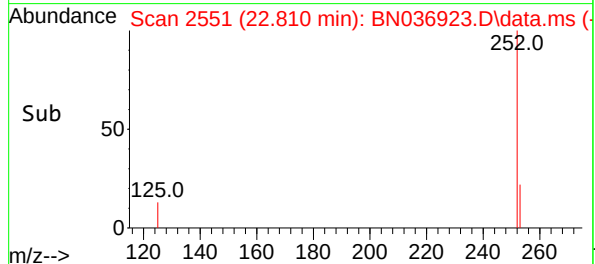
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:252 Resp: 1679
Ion Ratio Lower Upper
252 100
253 45.6 22.8 34.2#
125 36.9 14.2 21.2#

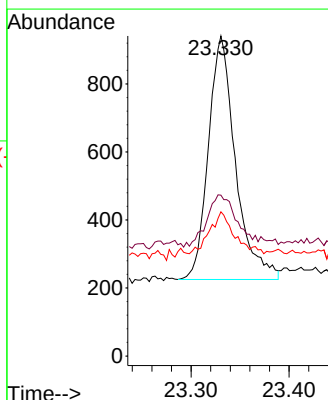
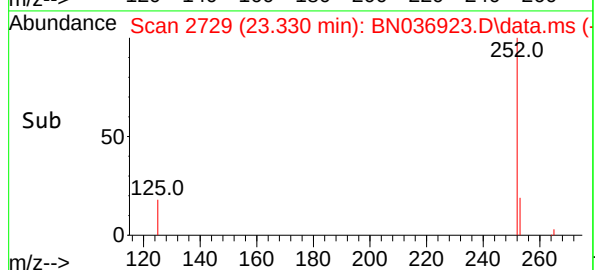
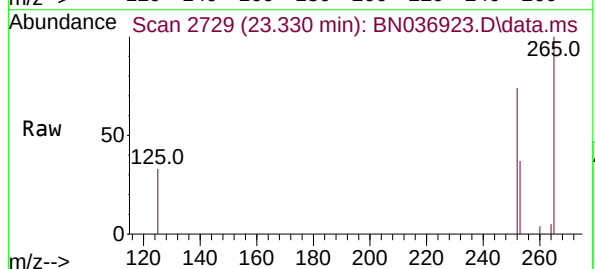
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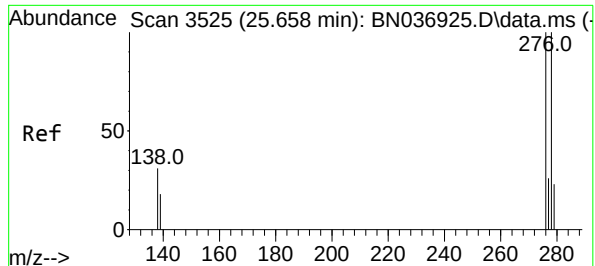
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#39
Benzo(a)pyrene
Concen: 0.096 ng
RT: 23.330 min Scan# 2729
Delta R.T. -0.000 min
Lab File: BN036923.D
Acq: 28 Apr 2025 11:35

Tgt Ion:252 Resp: 1376
Ion Ratio Lower Upper
252 100
253 50.3 25.9 38.9#
125 45.1 17.4 26.0#





#40

Dibenzo(a,h)anthracene

Concen: 0.095 ng

RT: 25.658 min Scan# 3525

Delta R.T. -0.000 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

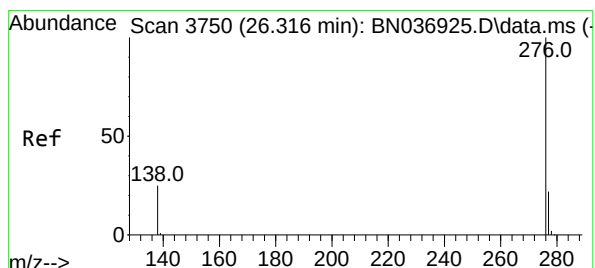
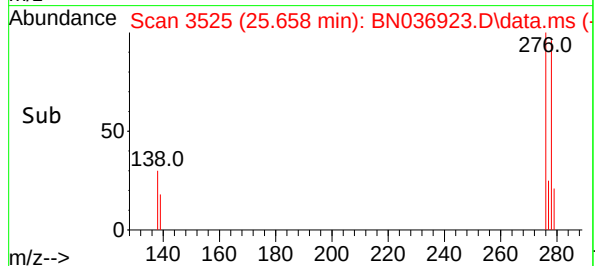
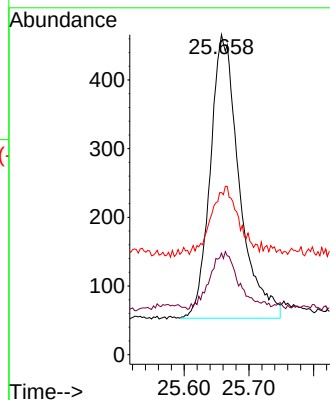
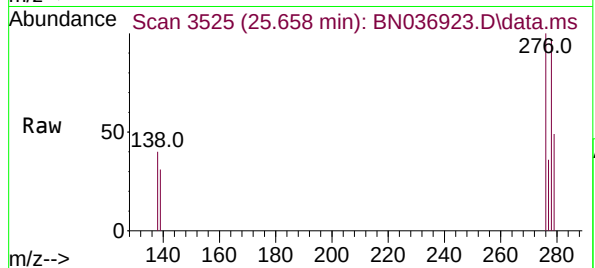
Tgt Ion:	278	Resp:	1280
Ion Ratio	Lower	Upper	
278	100		
139	31.8	17.4	26.2
279	50.6	24.9	37.3

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#41

Benzo(g,h,i)perylene

Concen: 0.101 ng

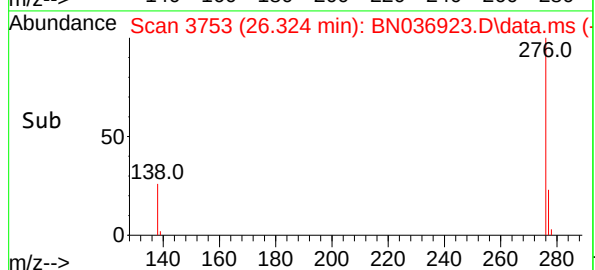
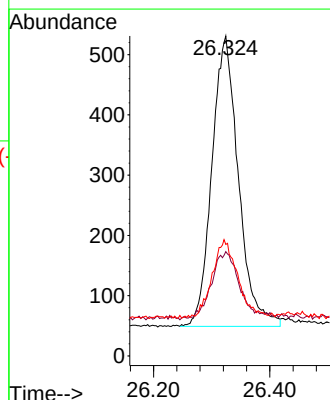
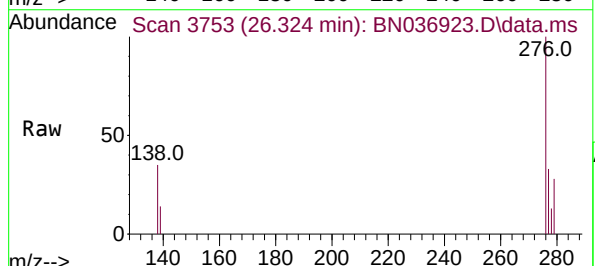
RT: 26.324 min Scan# 3753

Delta R.T. 0.009 min

Lab File: BN036923.D

Acq: 28 Apr 2025 11:35

Tgt Ion:	276	Resp:	1527
Ion Ratio	Lower	Upper	
276	100		
277	32.6	20.2	30.2
138	34.8	21.9	32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036924.D
 Acq On : 28 Apr 2025 12:11
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 04/29/2025
 Supervised By :Jagrut Upadhyay 04/29/2025

Quant Time: Apr 28 15:12:22 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:11:09 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2482	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	6094	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3232	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6237	0.400	ng	0.00
29) Chrysene-d12	21.216	240	4535	0.400	ng	0.00
35) Perylene-d12	23.430	264	4026	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	1310	0.205	ng	0.00
5) Phenol-d6	6.802	99	1535	0.197	ng	0.00
8) Nitrobenzene-d5	8.781	82	1223	0.193	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	1620	0.192	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	279	0.197	ng	0.00
15) 2-Fluorobiphenyl	12.899	172	3191	0.204	ng	0.00
27) Fluoranthene-d10	19.059	212	3130	0.196	ng	0.00
31) Terphenyl-d14	19.667	244	2136	0.198	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.155	88	607m	0.194	ng	
3) n-Nitrosodimethylamine	3.473	42	1238	0.204	ng	# 99
6) bis(2-Chloroethyl)ether	7.062	93	1394	0.192	ng	98
9) Naphthalene	10.458	128	3495	0.197	ng	97
10) Hexachlorobutadiene	10.757	225	763	0.197	ng	# 98
12) 2-Methylnaphthalene	12.082	142	2173	0.191	ng	100
16) Acenaphthylene	13.989	152	2990	0.191	ng	100
17) Acenaphthene	14.341	154	2053	0.198	ng	99
18) Fluorene	15.325	166	2605	0.193	ng	99
20) 4,6-Dinitro-2-methylph...	15.411	198	258	0.165	ng	# 57
21) 4-Bromophenyl-phenylether	16.227	248	819	0.197	ng	99
22) Hexachlorobenzene	16.338	284	900	0.196	ng	99
23) Atrazine	16.500	200	618	0.189	ng	98
24) Pentachlorophenol	16.686	266	425	0.178	ng	98
25) Phenanthrene	17.058	178	3972	0.194	ng	100
26) Anthracene	17.158	178	3454	0.188	ng	100
28) Fluoranthene	19.091	202	4305	0.189	ng	99
30) Pyrene	19.454	202	4403	0.200	ng	100
32) Benzo(a)anthracene	21.198	228	3191	0.193	ng	97
33) Chrysene	21.251	228	3574	0.197	ng	99
34) Bis(2-ethylhexyl)phtha...	21.144	149	1921	0.203	ng	98
36) Indeno(1,2,3-cd)pyrene	25.643	276	3163	0.192	ng	99
37) Benzo(b)fluoranthene	22.766	252	3124	0.187	ng	# 88
38) Benzo(k)fluoranthene	22.810	252	3158	0.187	ng	# 87
39) Benzo(a)pyrene	23.328	252	2619	0.190	ng	# 84
40) Dibenzo(a,h)anthracene	25.661	278	2498	0.193	ng	# 88
41) Benzo(g,h,i)perylene	26.327	276	2828	0.195	ng	96

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

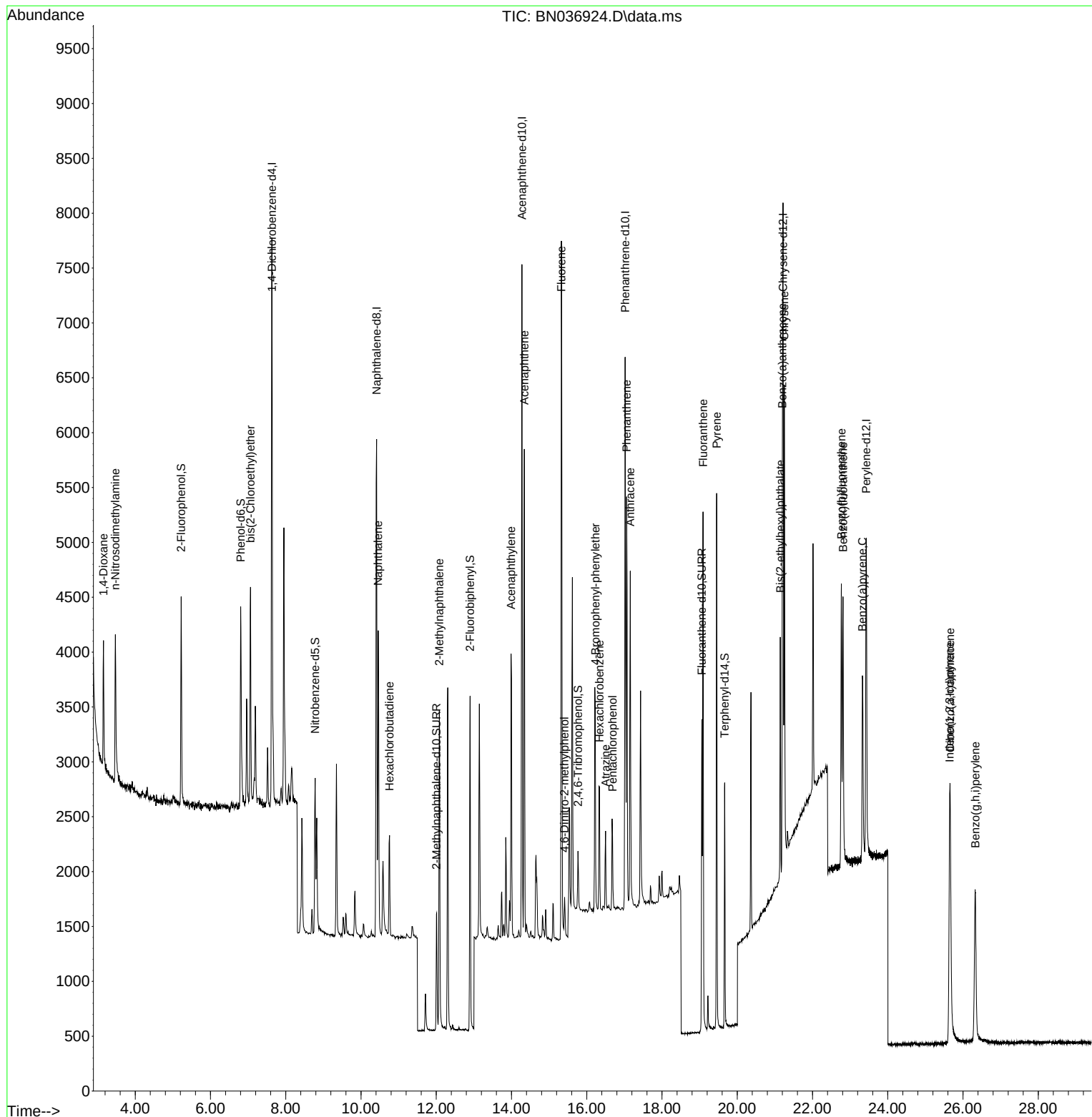
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036924.D
 Acq On : 28 Apr 2025 12:11
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

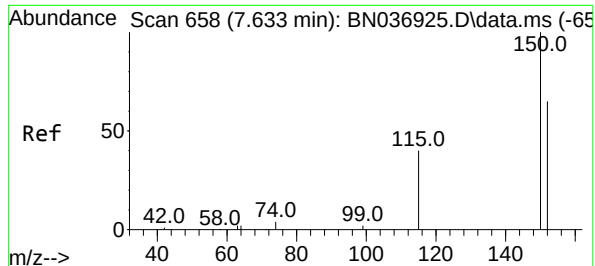
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 04/29/2025
 Supervised By :Jagrut Upadhyay 04/29/2025

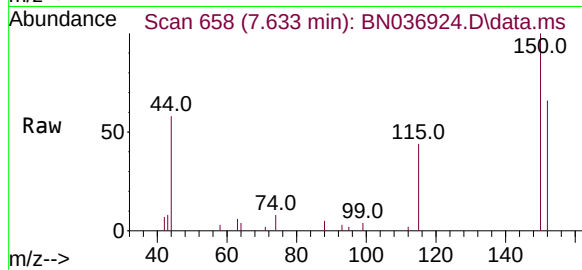
Quant Time: Apr 28 15:12:22 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:11:09 2025
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

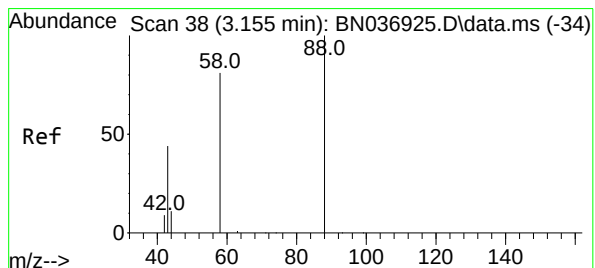
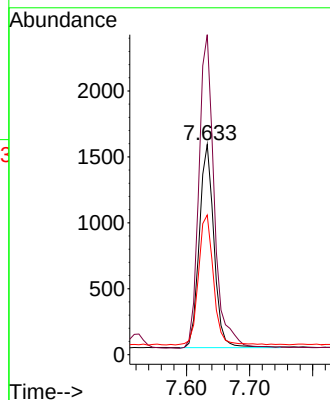
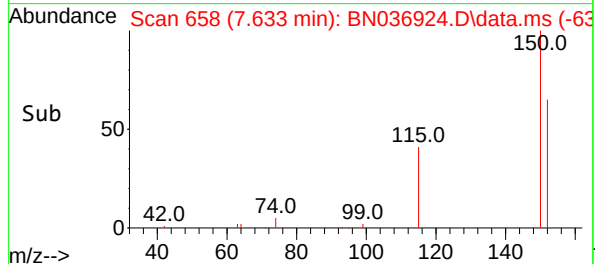
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 152 Resp: 248
Ion Ratio Lower Upper
152 100
150 152.3 121.1 181.7
115 66.4 51.8 77.6

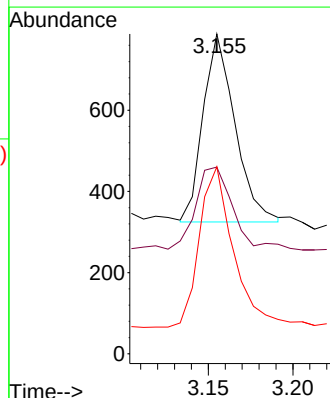
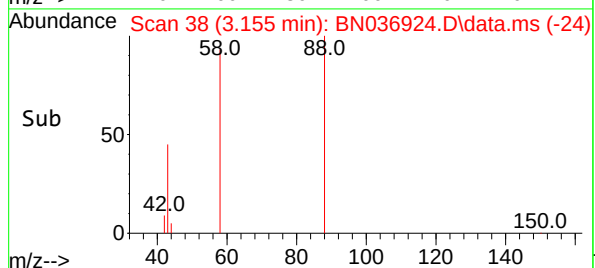
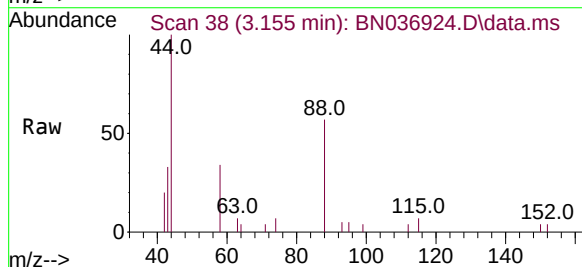
Manual Integrations
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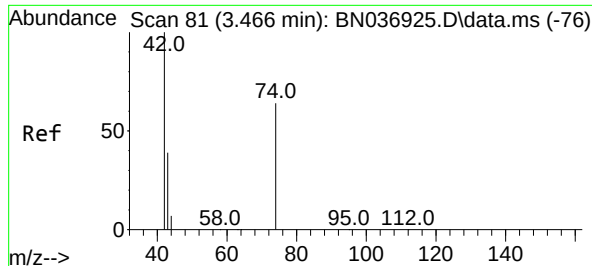
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#2
1,4-Dioxane
Concen: 0.194 ng m
RT: 3.155 min Scan# 38
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

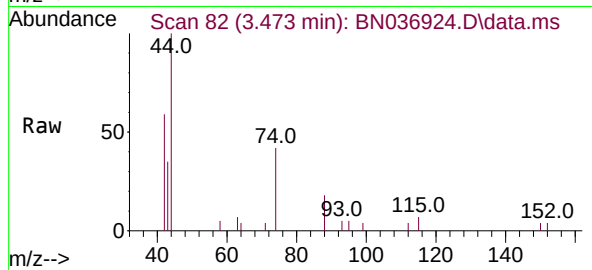
Tgt Ion: 88 Resp: 607
Ion Ratio Lower Upper
88 100
43 66.4 37.9 56.9#
58 94.4 65.8 98.6





#3
n-Nitrosodimethylamine
Concen: 0.204 ng
RT: 3.473 min Scan# 81
Delta R.T. 0.007 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

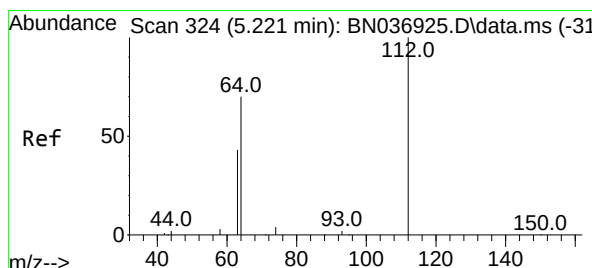
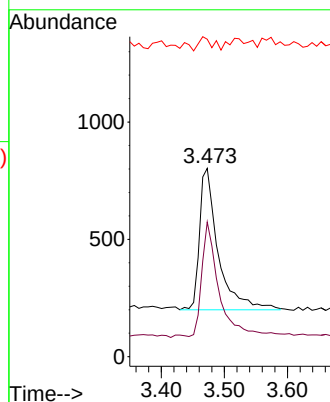
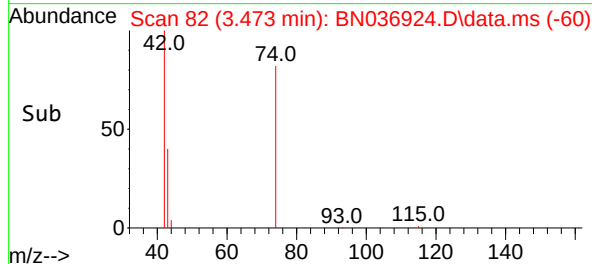
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 42 Resp: 1238
Ion Ratio Lower Upper
42 100
74 74.2 59.9 89.9
44 7.1 7.5 11.3

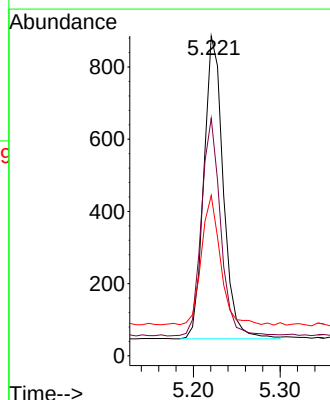
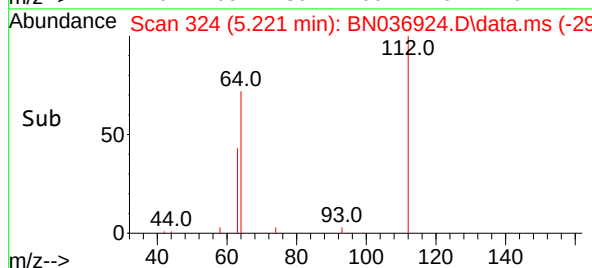
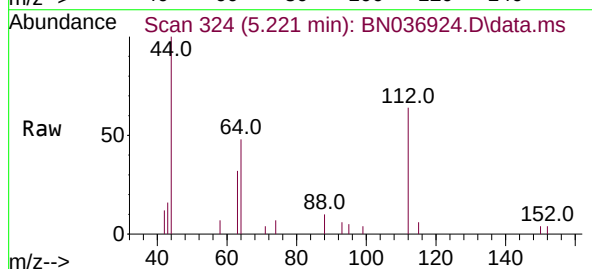
Manual Integrations
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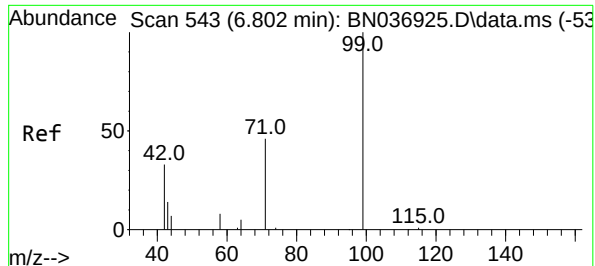
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#4
2-Fluorophenol
Concen: 0.205 ng
RT: 5.221 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:112 Resp: 1310
Ion Ratio Lower Upper
112 100
64 70.8 55.7 83.5
63 42.5 33.9 50.9





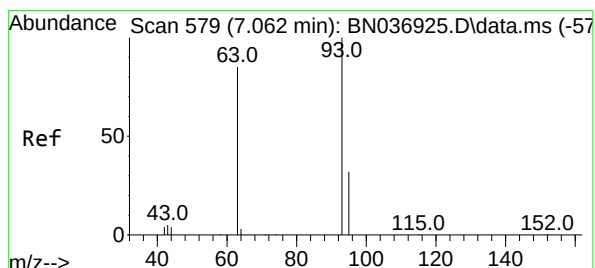
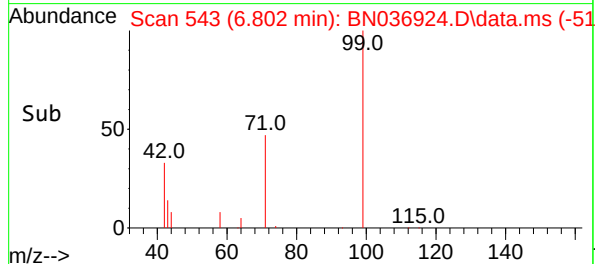
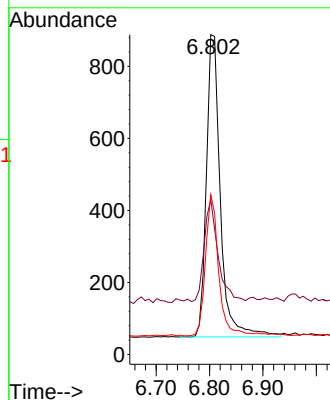
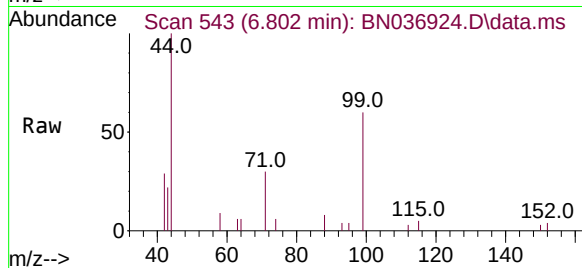
#5
Phenol-d6
Concen: 0.197 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 1538
Ion Ratio Lower Upper
99 100
42 33.2 29.6 44.4
71 43.6 36.0 54.0

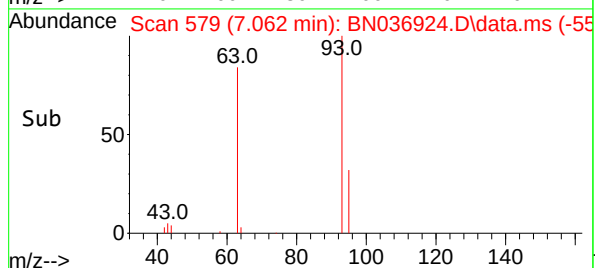
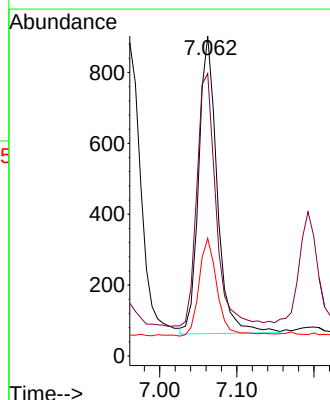
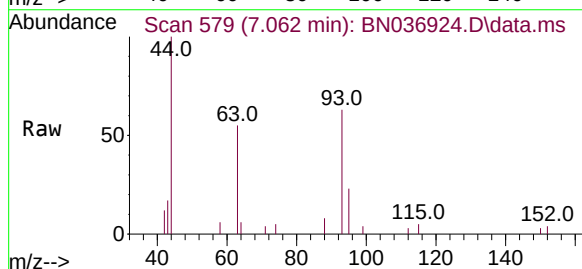
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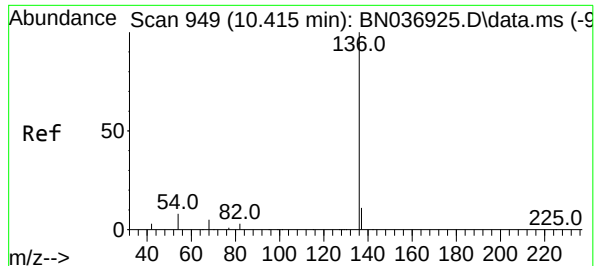
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.192 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

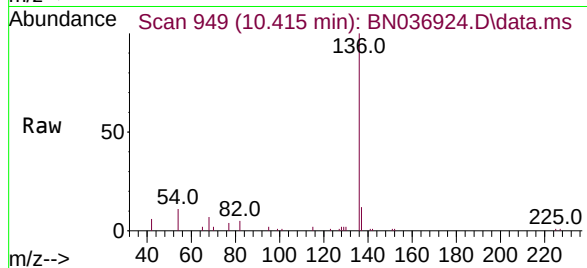
Tgt Ion: 93 Resp: 1394
Ion Ratio Lower Upper
93 100
63 88.4 69.0 103.6
95 33.1 25.4 38.0





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

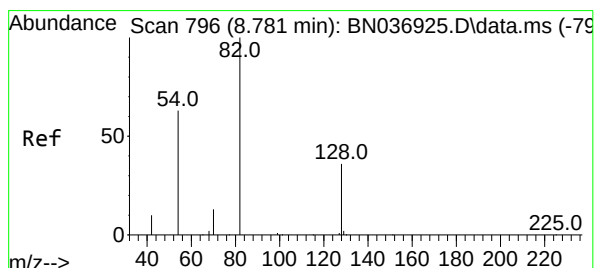
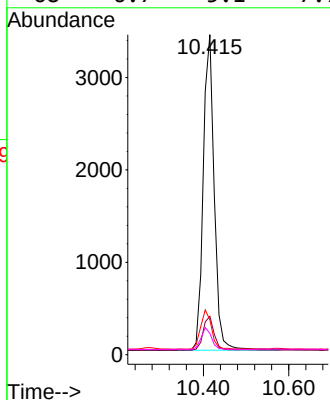
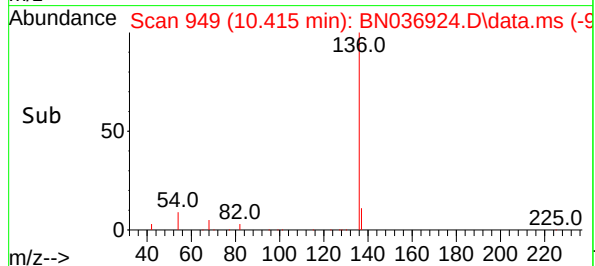
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.0	9.7	14.5
54	10.8	8.0	12.0
68	6.7	5.1	7.7

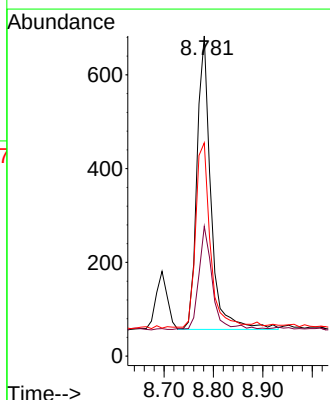
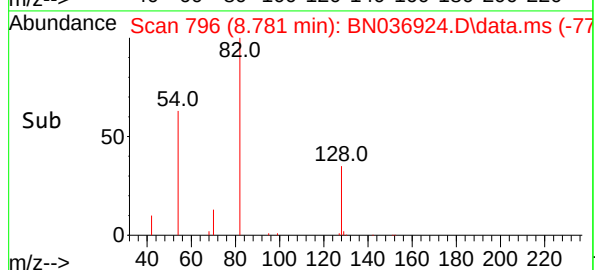
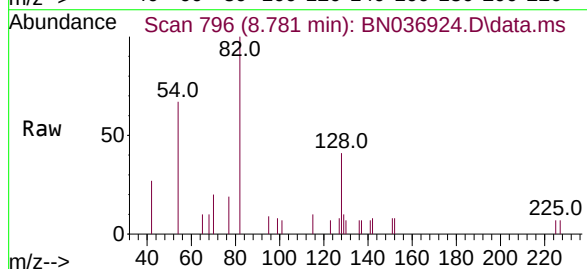
Manual Integrations
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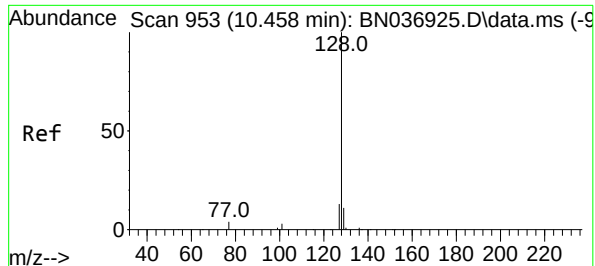
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#8
Nitrobenzene-d5
Concen: 0.193 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion	Ratio	Lower	Upper
82	100		
128	40.6	30.7	46.1
54	66.6	52.1	78.1





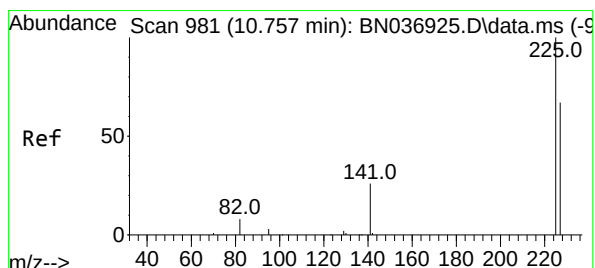
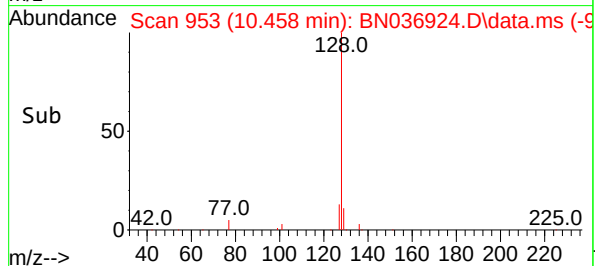
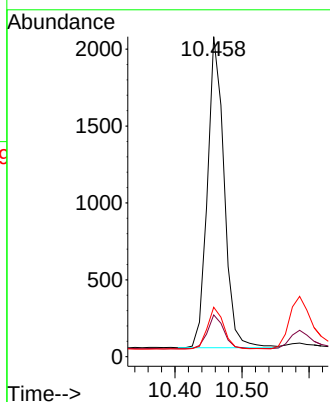
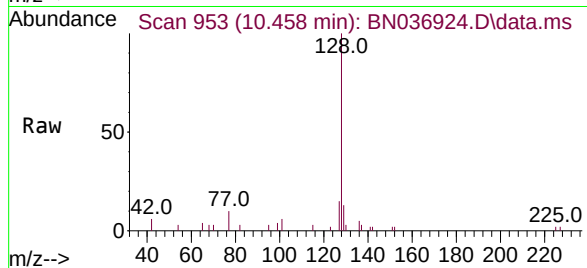
#9
Naphthalene
Concen: 0.197 ng
RT: 10.458 min Scan# 953
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 349
Ion Ratio Lower Upper
128 100
129 13.1 9.8 14.6
127 15.5 11.4 17.2

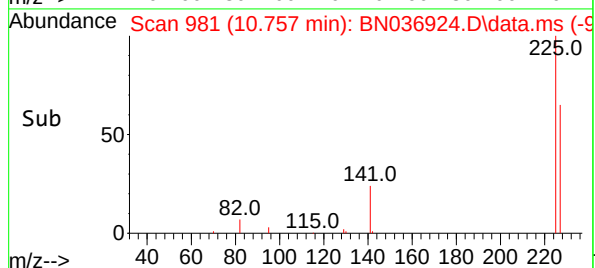
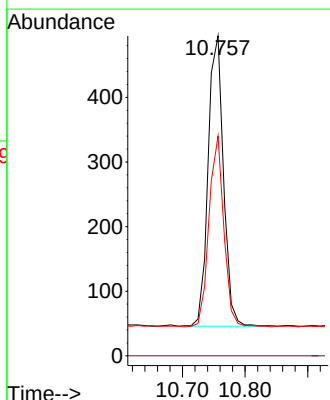
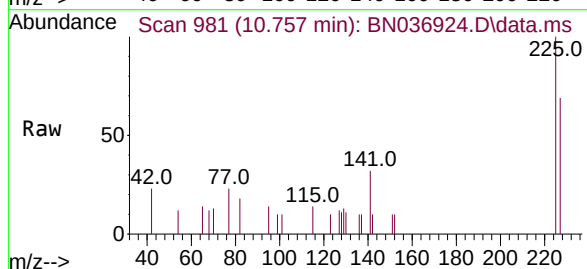
Manual Integrations
APPROVED

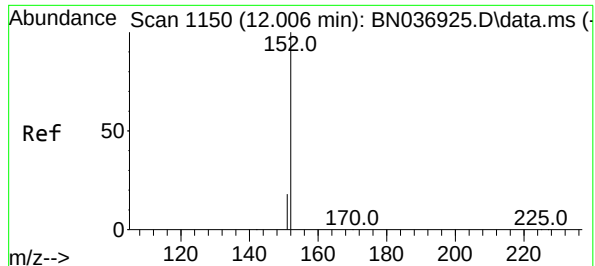
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#10
Hexachlorobutadiene
Concen: 0.197 ng
RT: 10.757 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

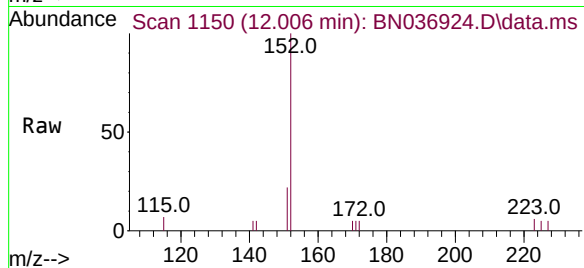
Tgt Ion:225 Resp: 763
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 52.2 78.4





#11
2-Methylnaphthalene-d10
Concen: 0.192 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

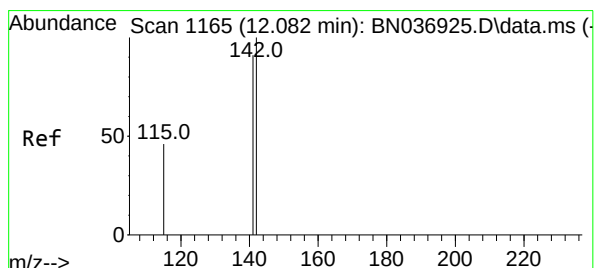
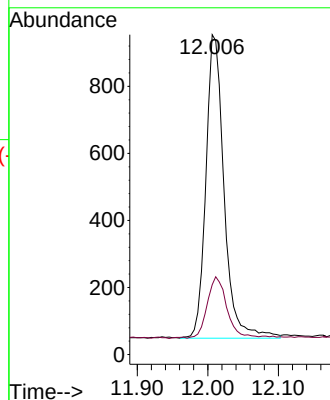
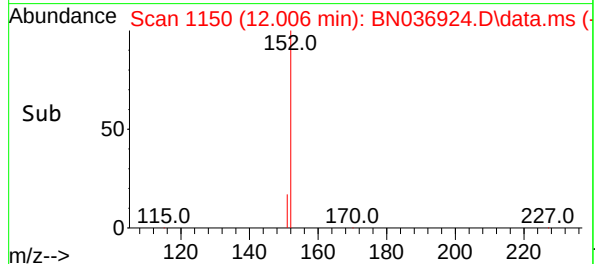
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:152 Resp: 1620
Ion Ratio Lower Upper
152 100
151 21.7 16.9 25.3

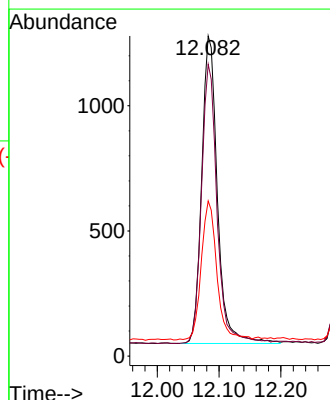
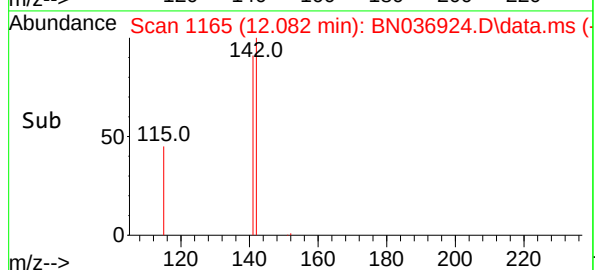
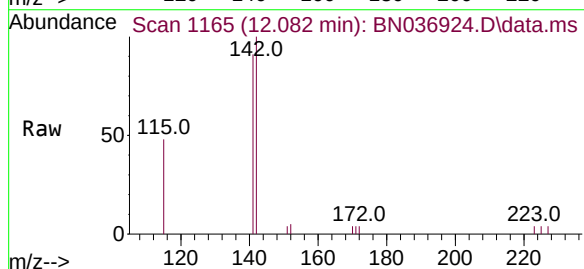
Manual Integrations
APPROVED

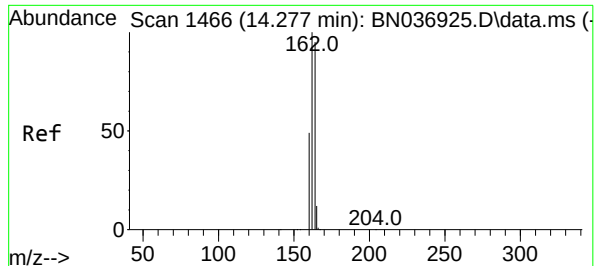
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#12
2-Methylnaphthalene
Concen: 0.191 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

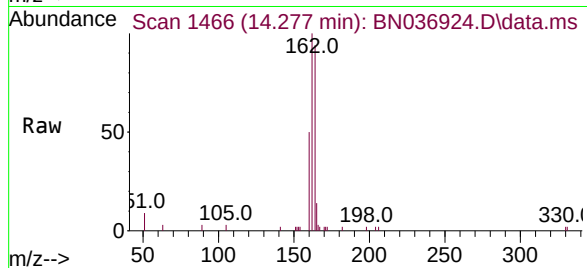
Tgt Ion:142 Resp: 2173
Ion Ratio Lower Upper
142 100
141 91.2 72.8 109.2
115 48.5 38.2 57.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

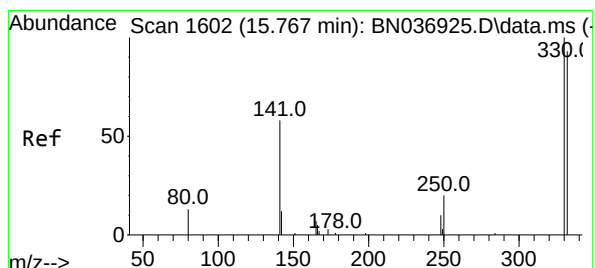
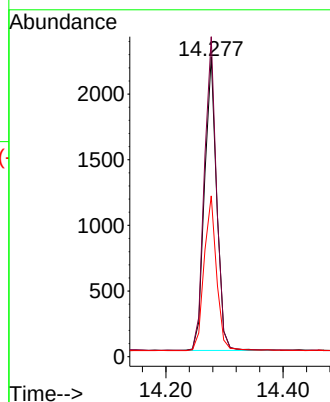
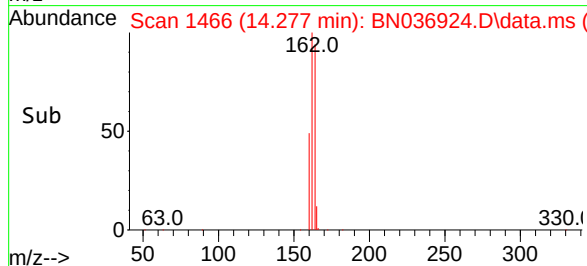
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



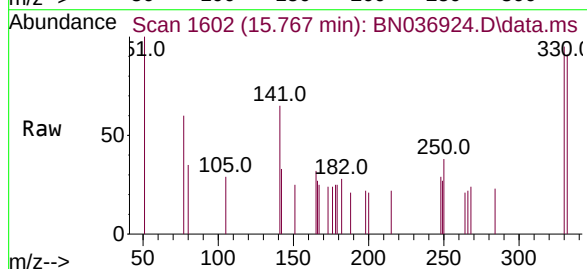
Tgt Ion:164 Resp: 323
Ion Ratio Lower Upper
164 100
162 106.7 83.8 125.8
160 53.6 42.0 63.0

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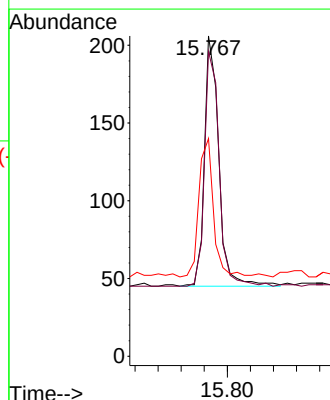
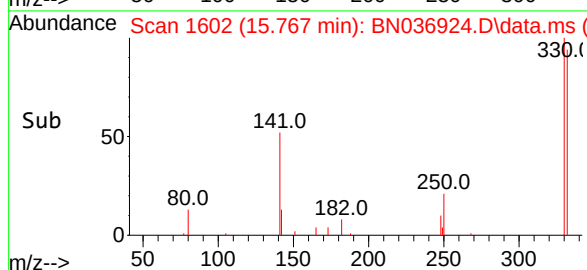
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025

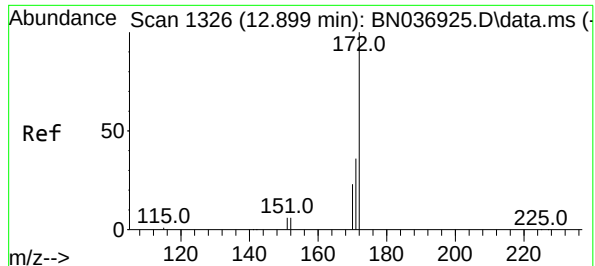


#14
2,4,6-Tribromophenol
Concen: 0.197 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11



Tgt Ion:330 Resp: 279
Ion Ratio Lower Upper
330 100
332 95.7 76.3 114.5
141 55.9 45.4 68.2





#15

2-Fluorobiphenyl

Concen: 0.204 ng

RT: 12.899 min Scan# 1439

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

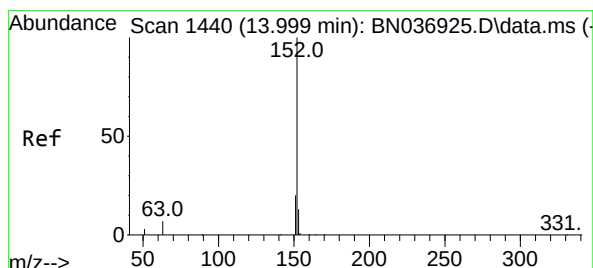
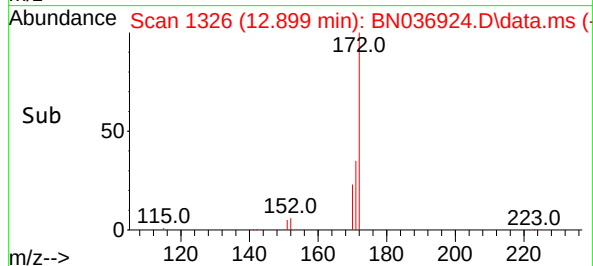
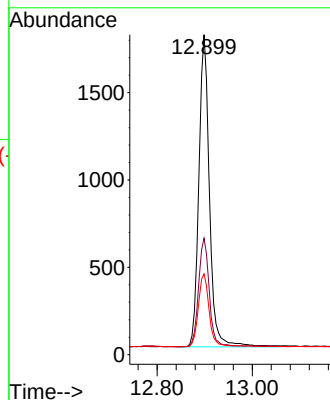
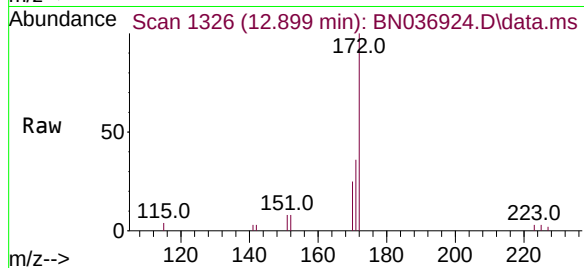
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.4	29.4	44.0
170	25.3	19.4	29.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#16

Acenaphthylene

Concen: 0.191 ng

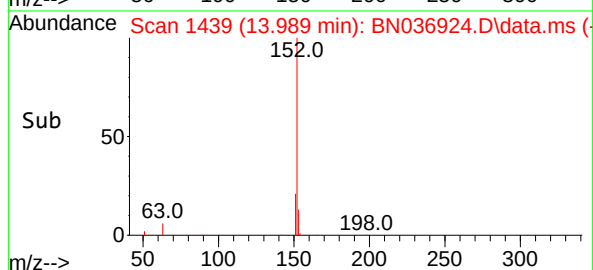
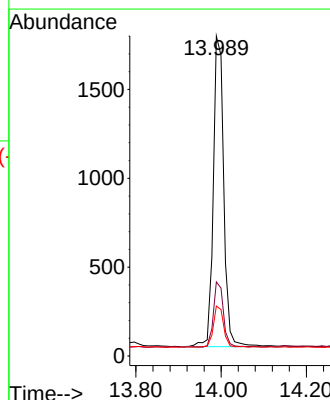
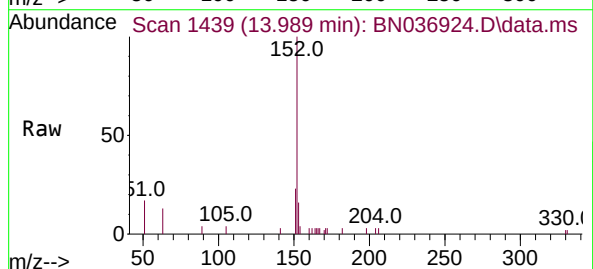
RT: 13.989 min Scan# 1439

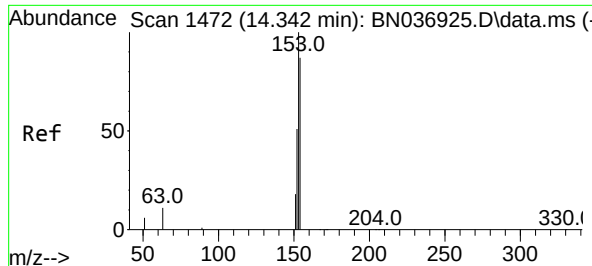
Delta R.T. -0.011 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

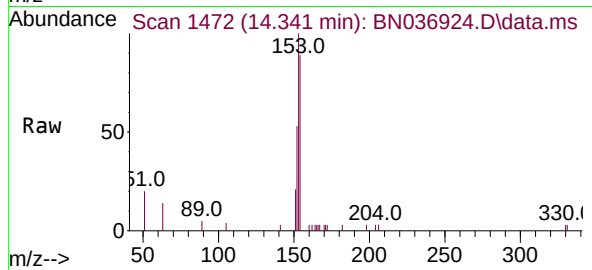
Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.0	24.0
153	12.8	10.2	15.2





#17
Acenaphthene
Concen: 0.198 ng
RT: 14.341 min Scan# 1472
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

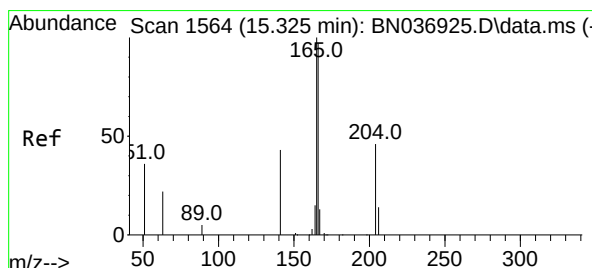
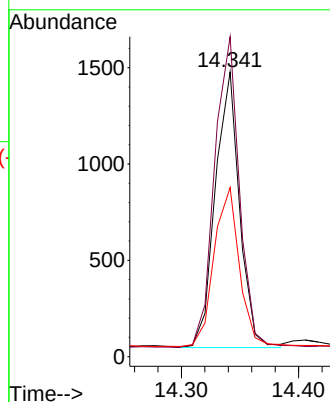
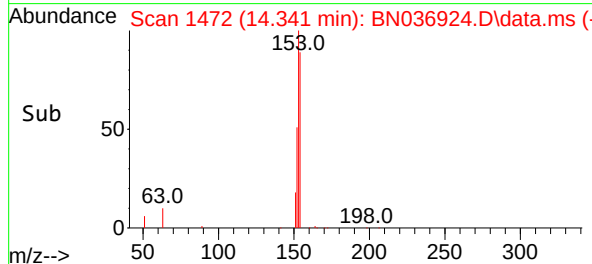
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:154 Resp: 205
Ion Ratio Lower Upper
154 100
153 115.1 93.4 140.2
152 60.9 49.5 74.3

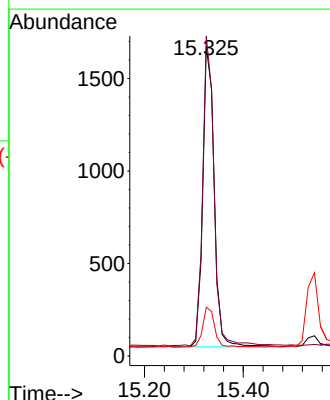
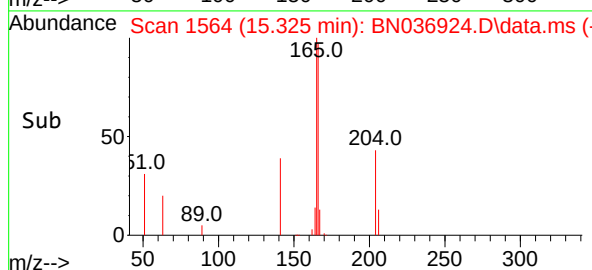
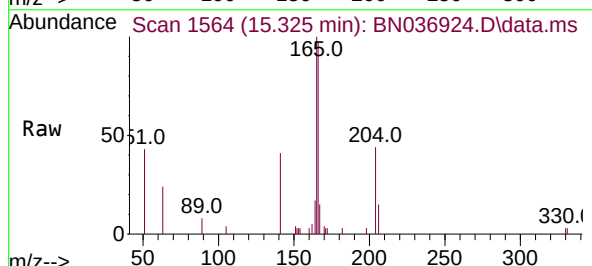
Manual Integrations
APPROVED

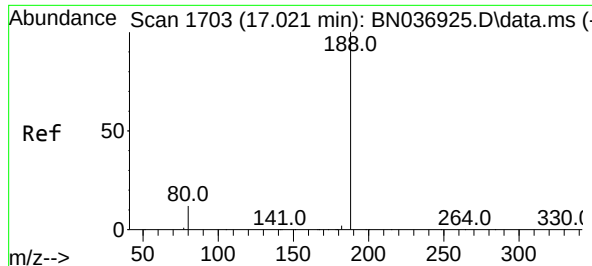
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#18
Fluorene
Concen: 0.193 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:166 Resp: 2605
Ion Ratio Lower Upper
166 100
165 101.9 80.8 121.2
167 14.0 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:188 Resp: 623

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

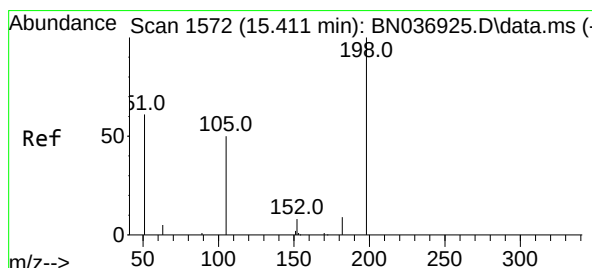
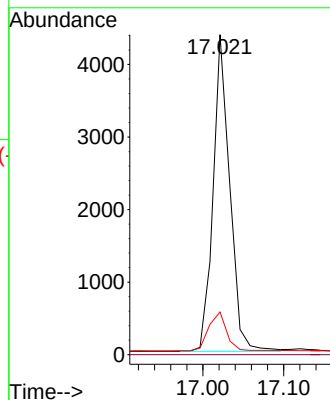
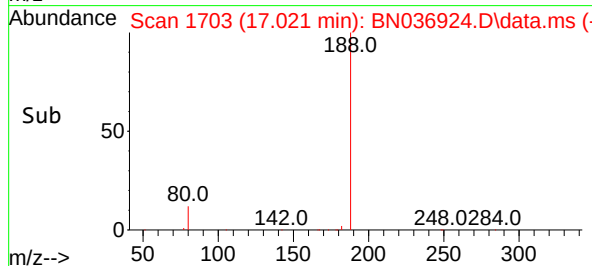
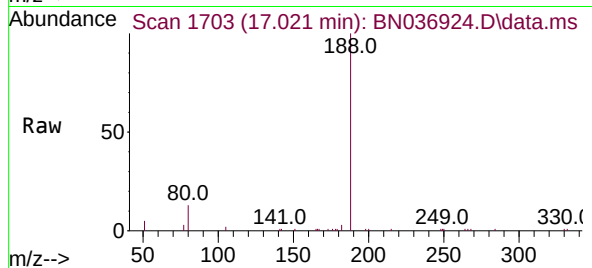
80 13.4 10.7 16.1

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Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.165 ng

RT: 15.411 min Scan# 1572

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

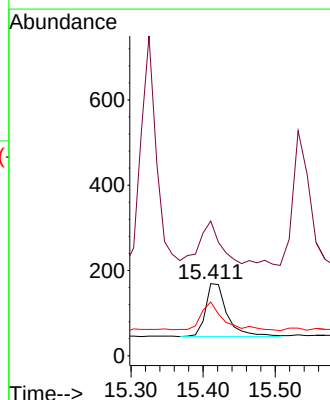
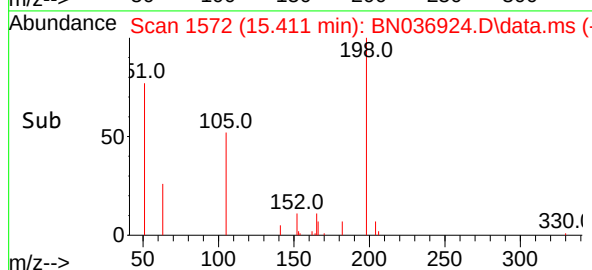
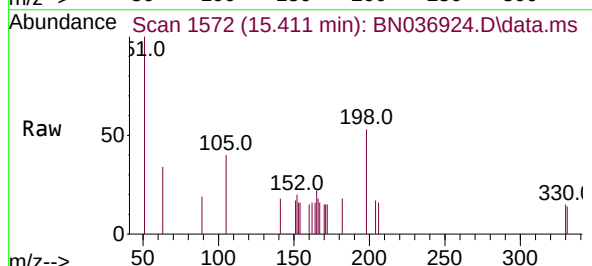
Tgt Ion:198 Resp: 258

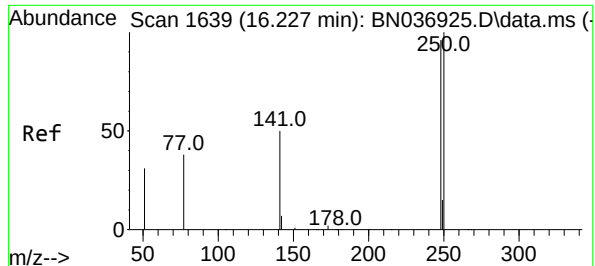
Ion Ratio Lower Upper

198 100

51 187.0 97.9 146.9

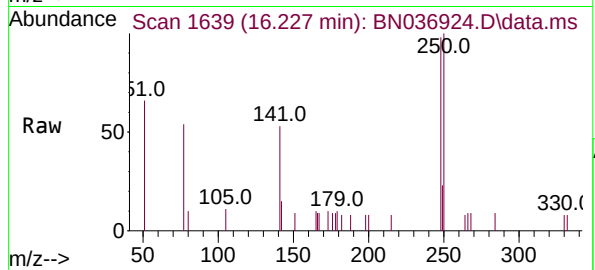
105 74.6 50.0 75.0





#21
4-Bromophenyl-phenylether
Concen: 0.197 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

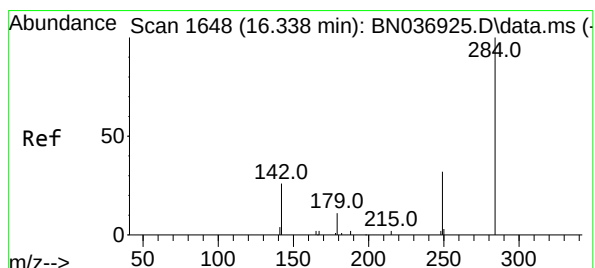
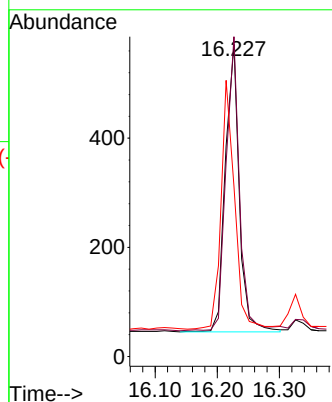
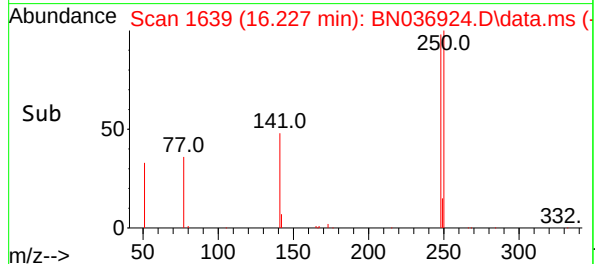
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:248 Resp: 819
Ion Ratio Lower Upper
248 100
250 102.4 83.7 125.5
141 54.5 43.8 65.8

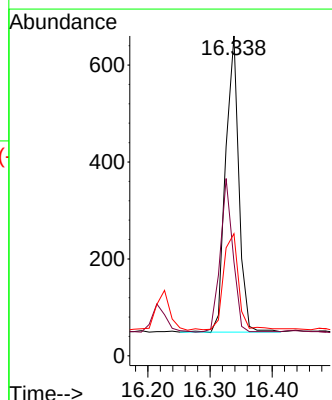
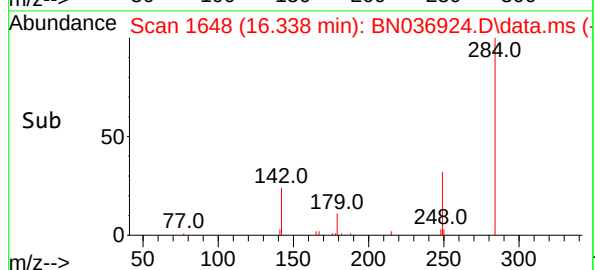
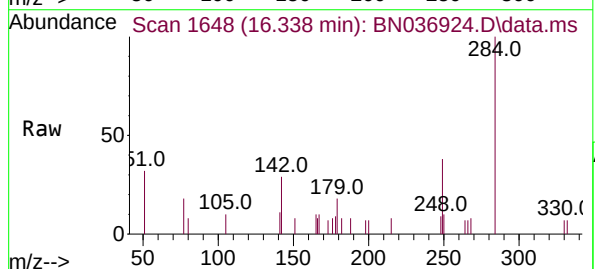
Manual Integrations
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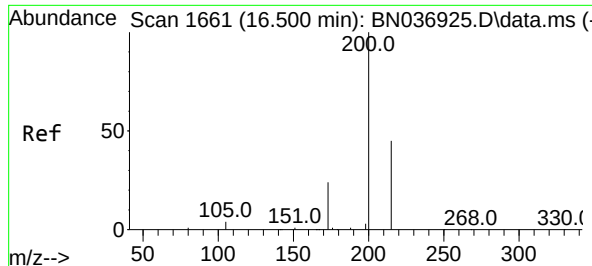
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#22
Hexachlorobenzene
Concen: 0.196 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

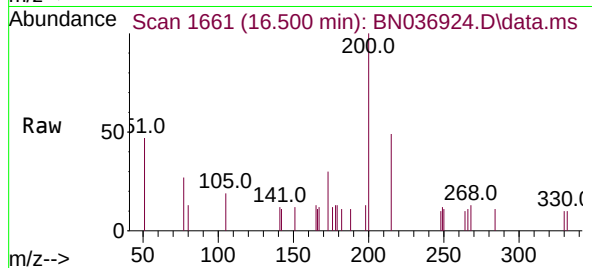
Tgt Ion:284 Resp: 900
Ion Ratio Lower Upper
284 100
142 49.8 40.0 60.0
249 37.0 28.2 42.2





#23
Atrazine
Concen: 0.189 ng
RT: 16.500 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

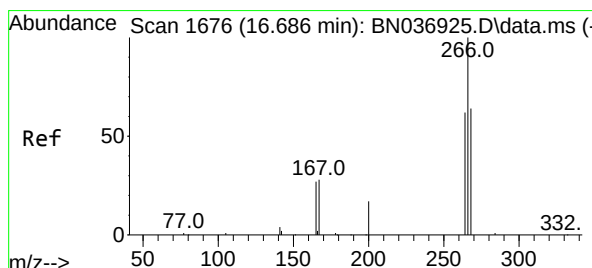
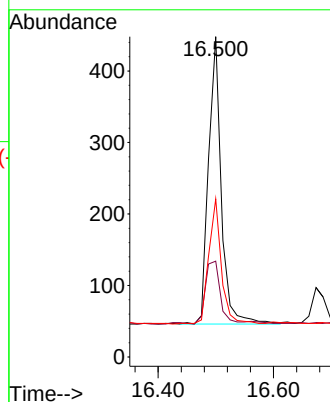
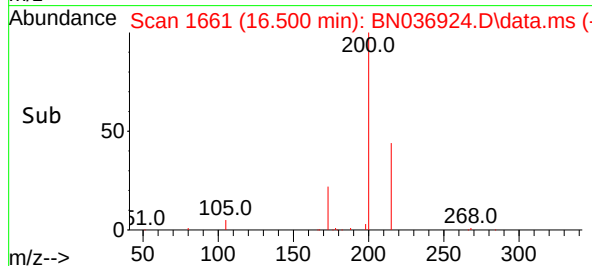
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:200 Resp: 618
Ion Ratio Lower Upper
200 100
173 29.9 22.4 33.6
215 49.3 38.6 57.8

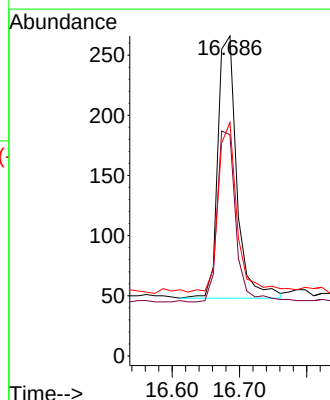
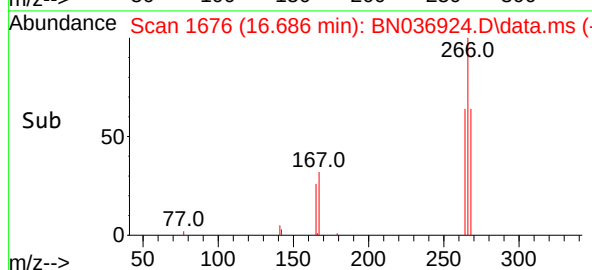
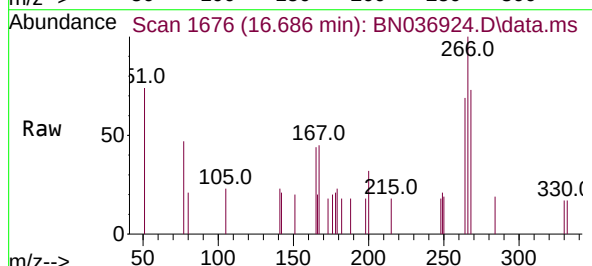
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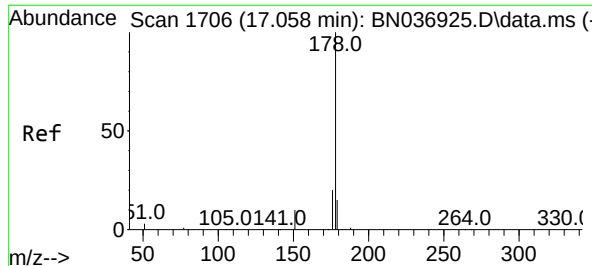
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#24
Pentachlorophenol
Concen: 0.178 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

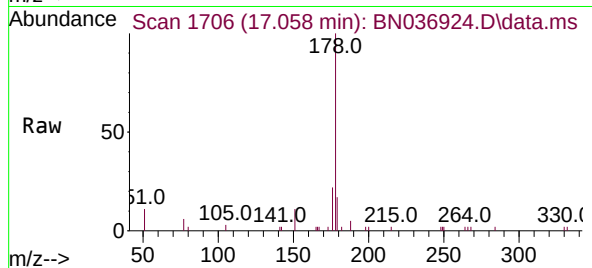
Tgt Ion:266 Resp: 425
Ion Ratio Lower Upper
266 100
264 64.5 49.9 74.9
268 66.8 52.2 78.4





#25
Phenanthrene
Concen: 0.194 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

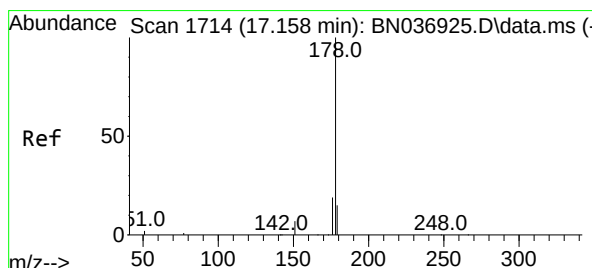
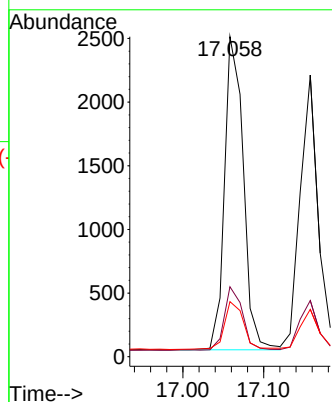
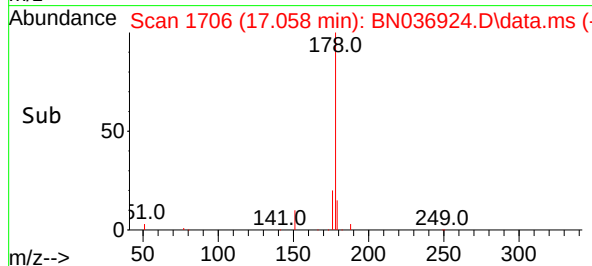
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:178 Resp: 3972
Ion Ratio Lower Upper
178 100
176 19.9 15.7 23.5
179 15.5 12.4 18.6

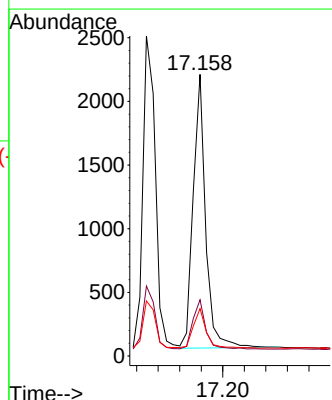
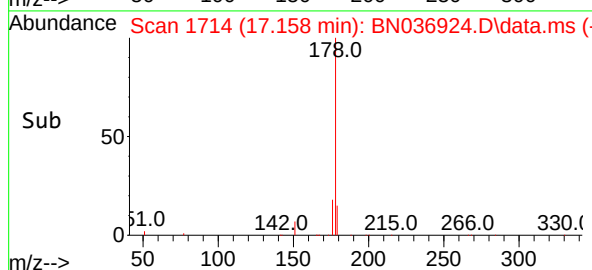
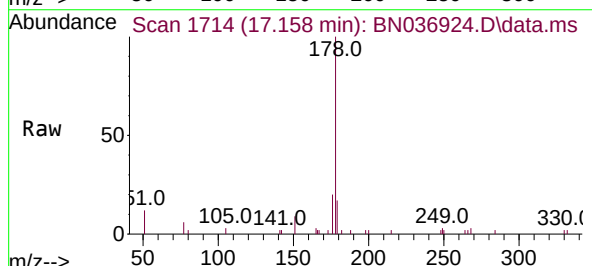
Manual Integrations
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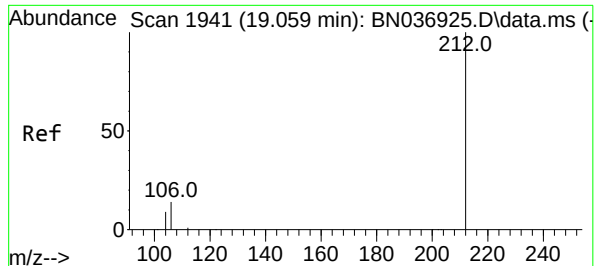
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#26
Anthracene
Concen: 0.188 ng
RT: 17.158 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:178 Resp: 3454
Ion Ratio Lower Upper
178 100
176 18.9 15.3 22.9
179 15.2 12.1 18.1





#27

Fluoranthene-d10

Concen: 0.196 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Instrument :

BNA_N

ClientSampleId :

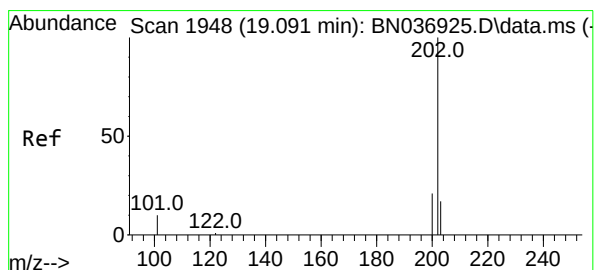
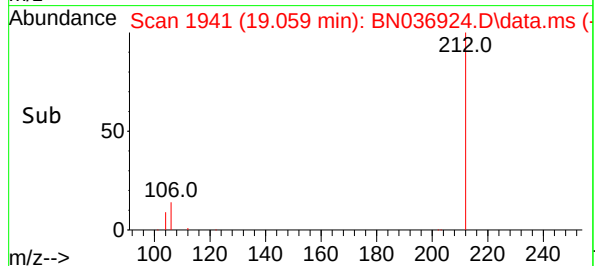
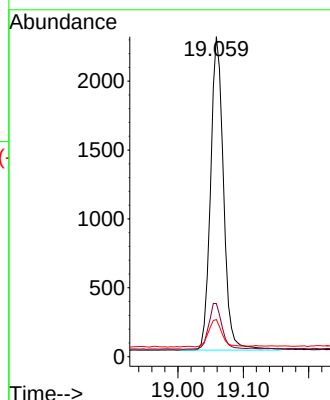
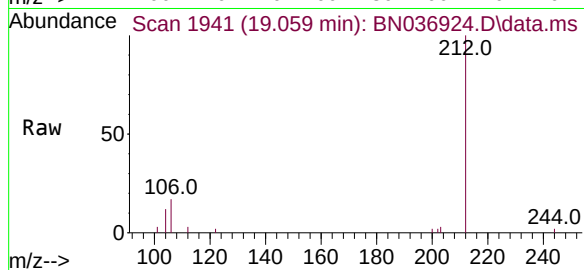
SSTDICC0.2

Tgt Ion:	212	Resp:	3130
Ion	Ratio	Lower	Upper
212	100		
106	15.0	11.6	17.4
104	9.0	7.0	10.4

Manual Integrations

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Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#28

Fluoranthene

Concen: 0.189 ng

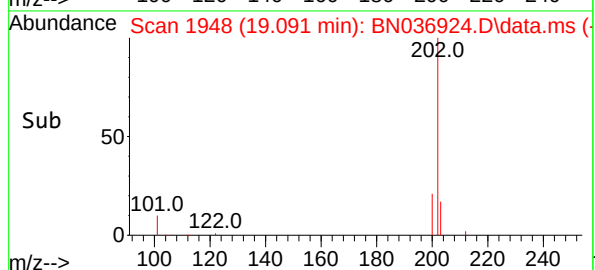
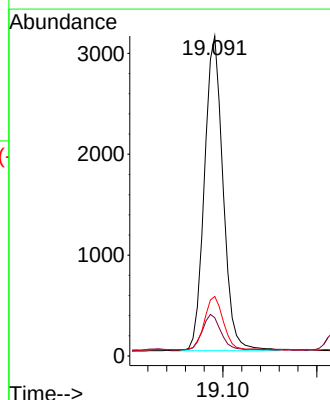
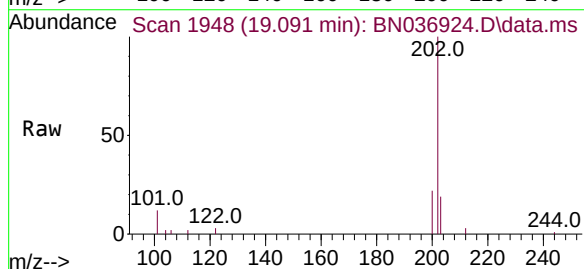
RT: 19.091 min Scan# 1948

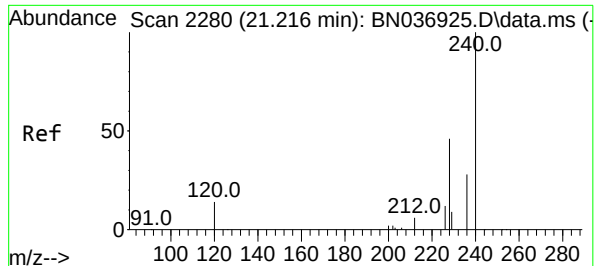
Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Tgt Ion:	202	Resp:	4305
Ion	Ratio	Lower	Upper
202	100		
101	11.2	8.5	12.7
203	17.4	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.216 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:240 Resp: 453

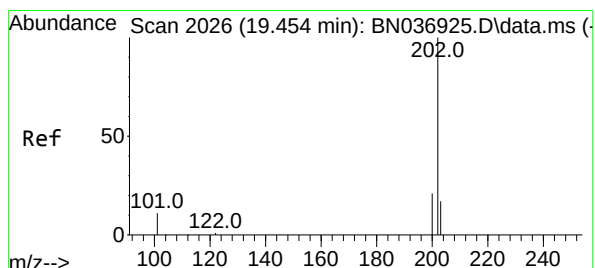
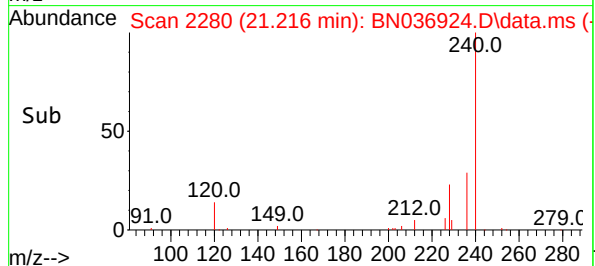
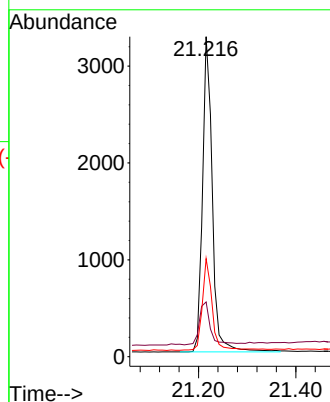
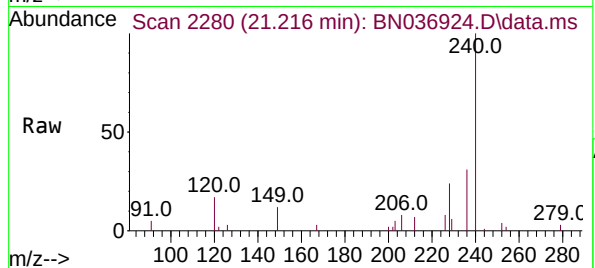
Ion	Ratio	Lower	Upper
240	100		
120	17.1	14.1	21.1
236	30.7	23.8	35.8

Manual Integrations

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Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#30

Pyrene

Concen: 0.200 ng

RT: 19.454 min Scan# 2026

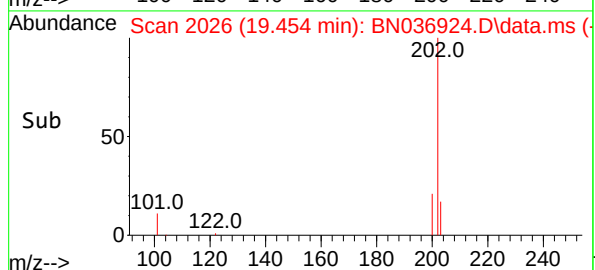
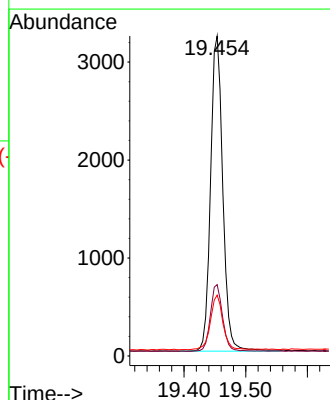
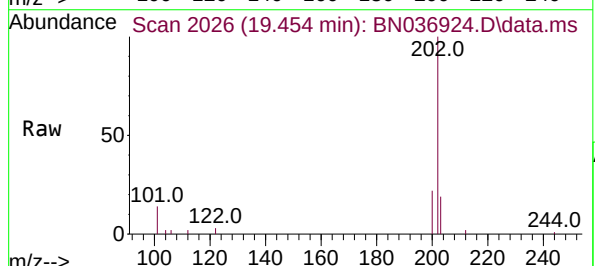
Delta R.T. -0.000 min

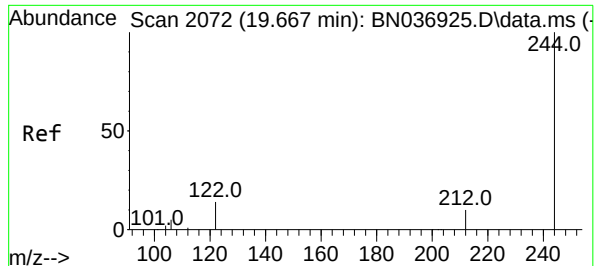
Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Tgt Ion:202 Resp: 4403

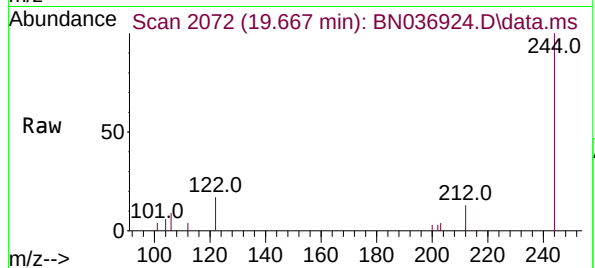
Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.6
203	17.8	14.0	21.0





#31
Terphenyl-d14
Concen: 0.198 ng
RT: 19.667 min Scan# 2072
Delta R.T. -0.000 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

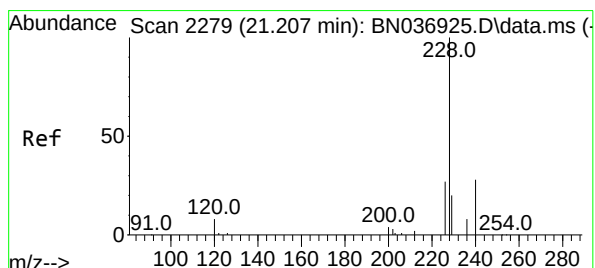
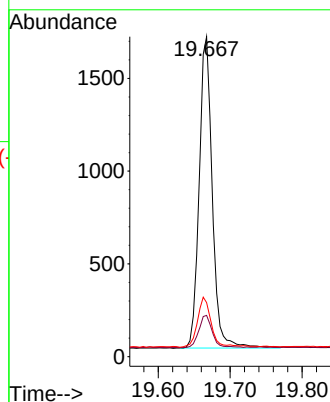
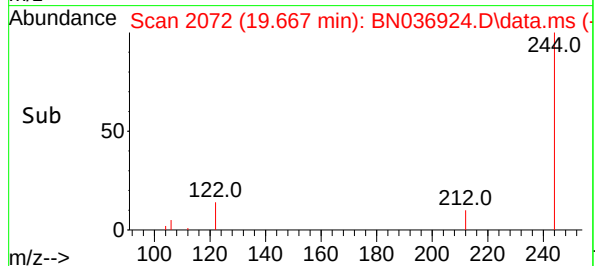
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:244 Resp: 2130
Ion Ratio Lower Upper
244 100
212 12.9 9.6 14.4
122 16.9 12.7 19.1

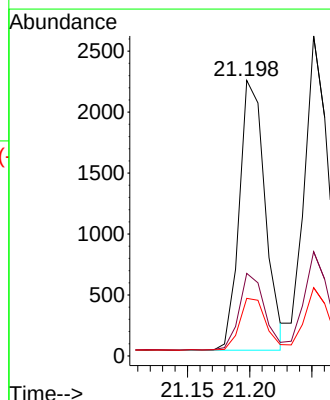
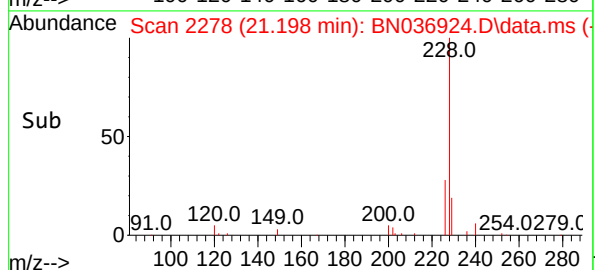
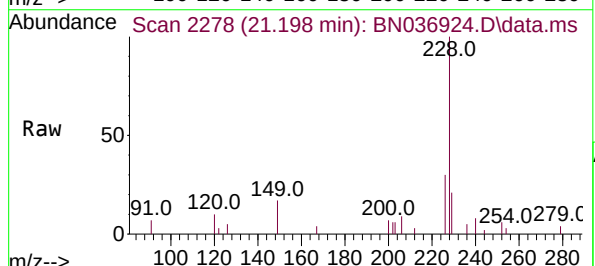
Manual Integrations
APPROVED

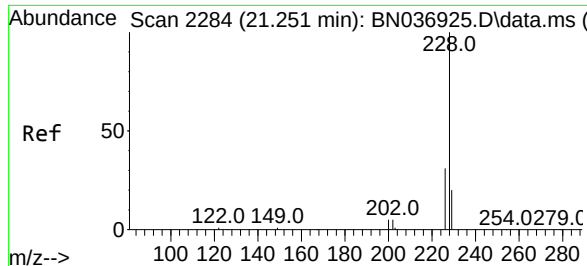
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#32
Benzo(a)anthracene
Concen: 0.193 ng
RT: 21.198 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:228 Resp: 3191
Ion Ratio Lower Upper
228 100
226 30.0 22.2 33.4
229 20.9 16.4 24.6





#33

Chrysene

Concen: 0.197 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:228 Resp: 3574

Ion Ratio Lower Upper

228 100

226 32.6 25.5 38.3

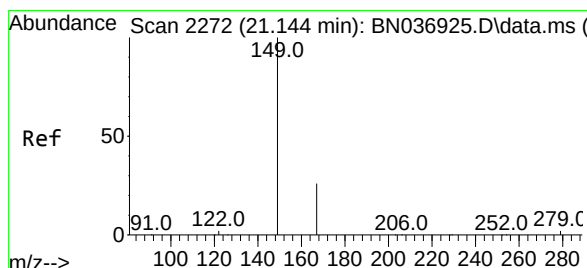
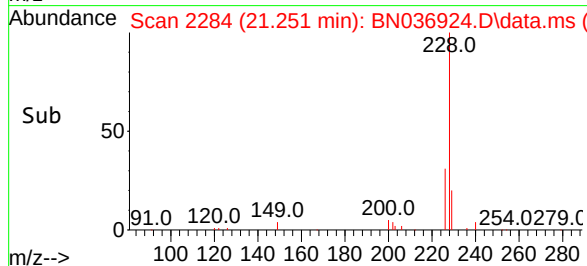
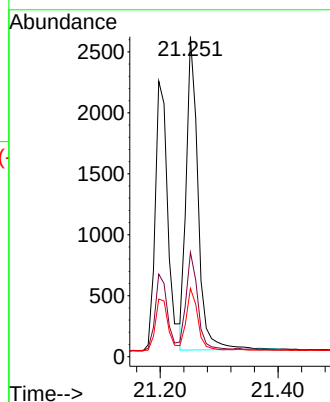
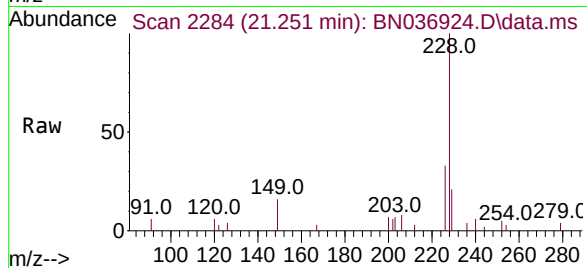
229 21.3 16.5 24.7

Manual Integrations

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Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.203 ng

RT: 21.144 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

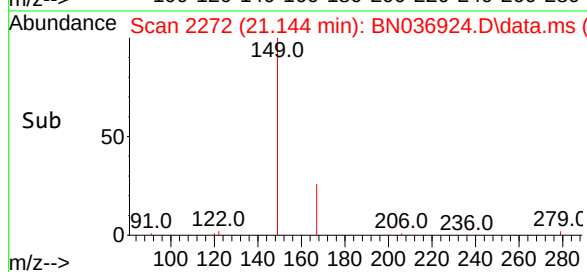
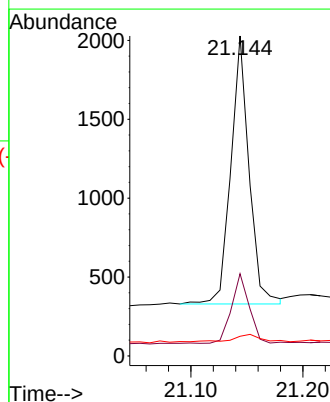
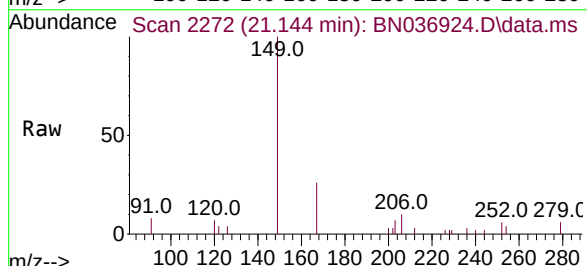
Tgt Ion:149 Resp: 1921

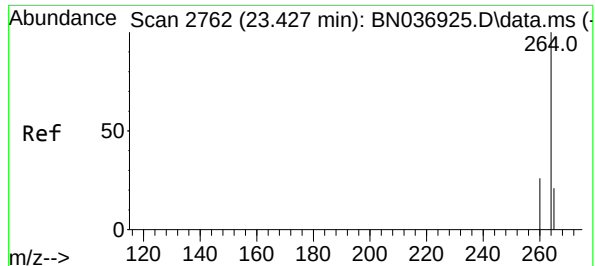
Ion Ratio Lower Upper

149 100

167 25.4 21.0 31.6

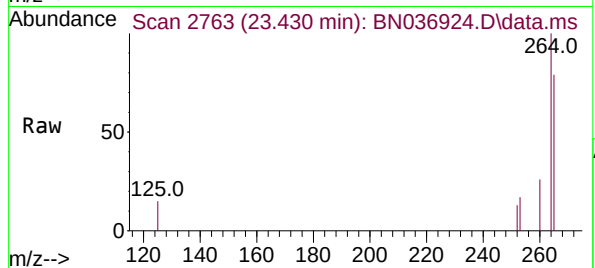
279 3.9 2.7 4.1





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.430 min Scan# 21
Delta R.T. 0.003 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

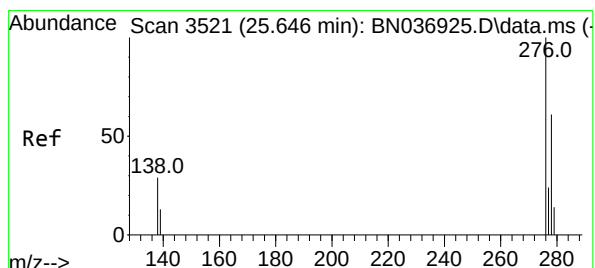
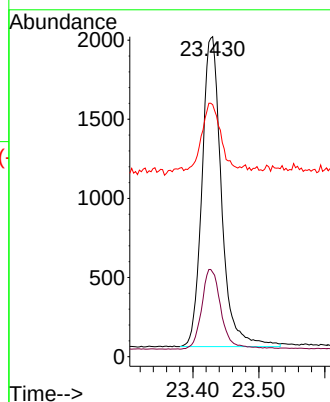
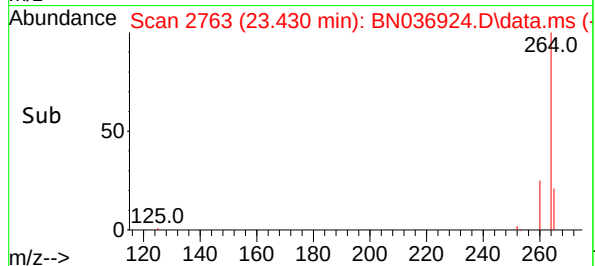
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:264 Resp: 4020
Ion Ratio Lower Upper
264 100
260 26.4 22.2 33.2
265 78.7 65.8 98.6

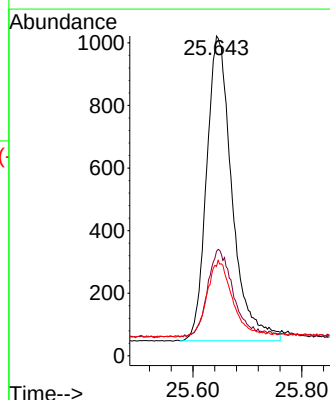
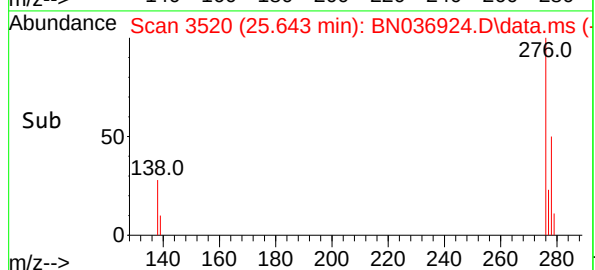
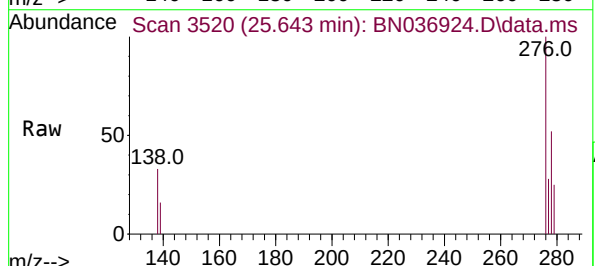
Manual Integrations
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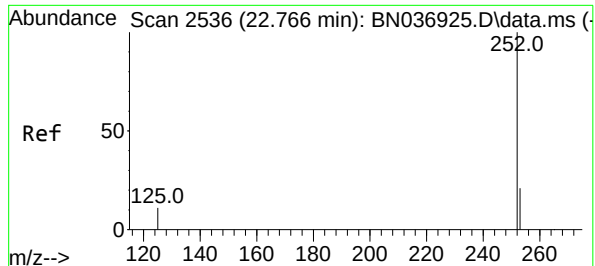
Reviewed By :Rahul Chavli 04/29/2025
Supervised By :Jagrut Upadhyay 04/29/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.192 ng
RT: 25.643 min Scan# 3520
Delta R.T. -0.003 min
Lab File: BN036924.D
Acq: 28 Apr 2025 12:11

Tgt Ion:276 Resp: 3163
Ion Ratio Lower Upper
276 100
138 28.4 23.0 34.6
277 25.2 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.187 ng

RT: 22.766 min Scan# 2536

Delta R.T. -0.000 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

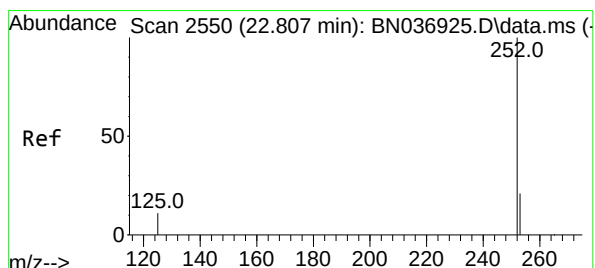
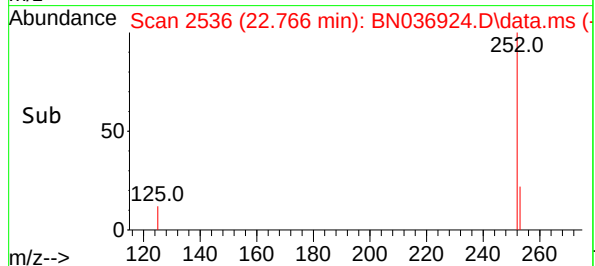
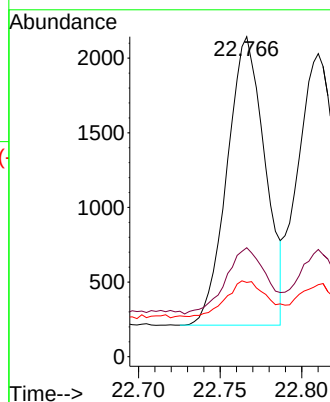
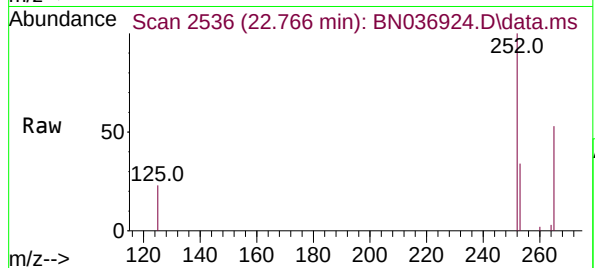
Tgt Ion:252	Resp:	3124
Ion Ratio	Lower	Upper
252	100	
253	34.0	22.1 33.1
125	23.2	14.2 21.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#38

Benzo(k)fluoranthene

Concen: 0.187 ng

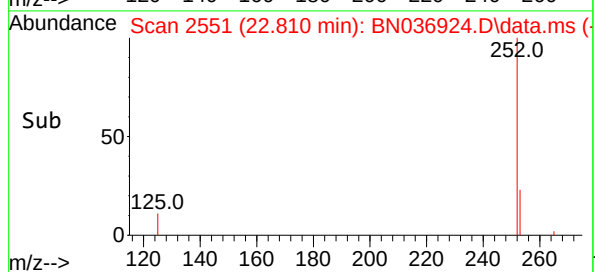
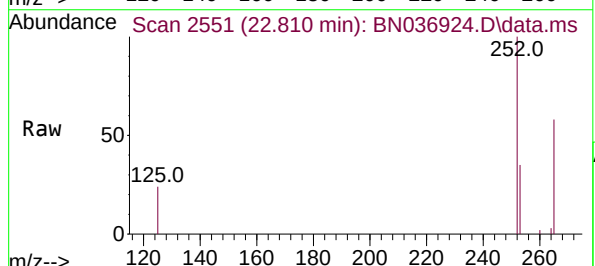
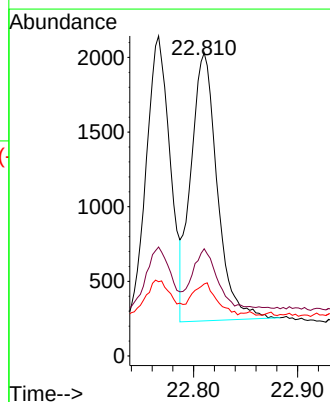
RT: 22.810 min Scan# 2551

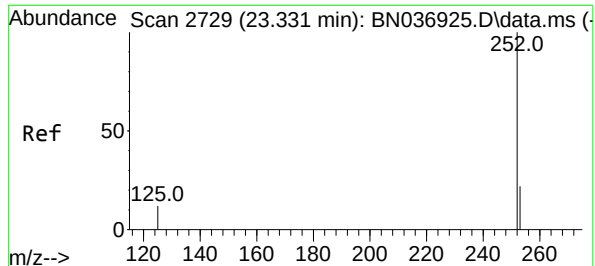
Delta R.T. 0.003 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Tgt Ion:252	Resp:	3158
Ion Ratio	Lower	Upper
252	100	
253	35.4	22.8 34.2
125	23.8	14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.190 ng

RT: 23.328 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

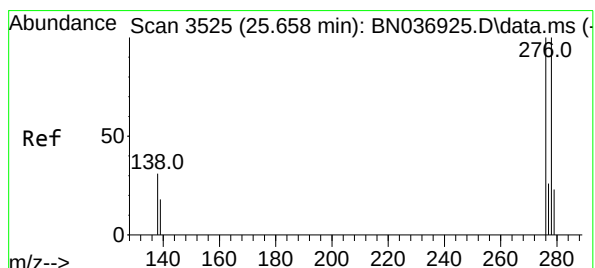
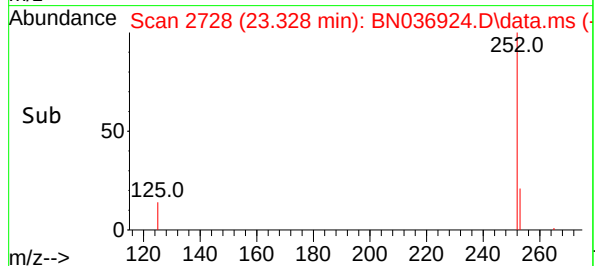
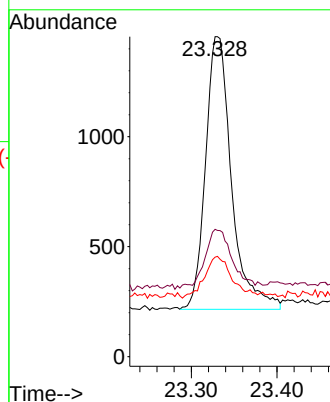
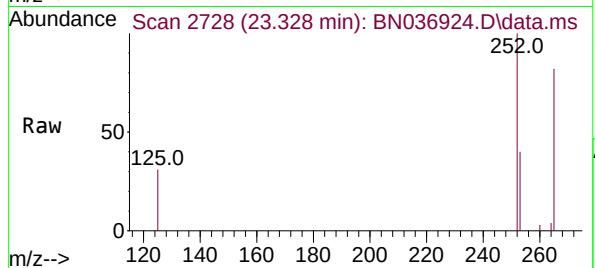
Tgt Ion:252	Resp:	2619
Ion Ratio	Lower	Upper
252	100	
253	39.8	25.9 38.9
125	31.1	17.4 26.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.193 ng

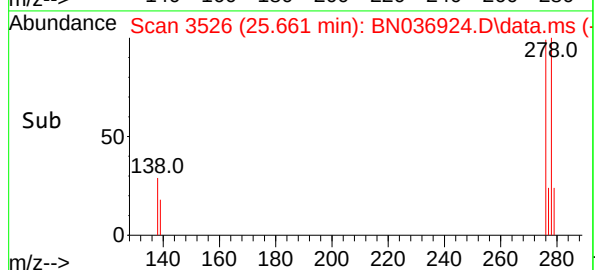
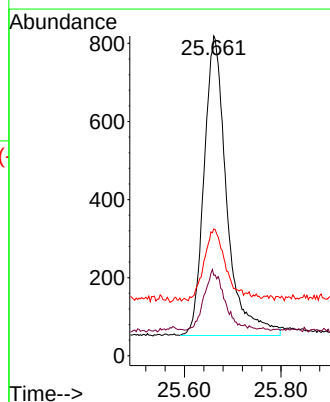
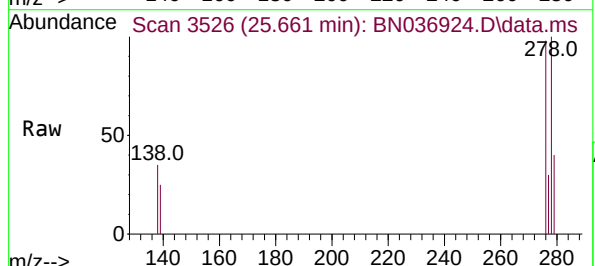
RT: 25.661 min Scan# 3526

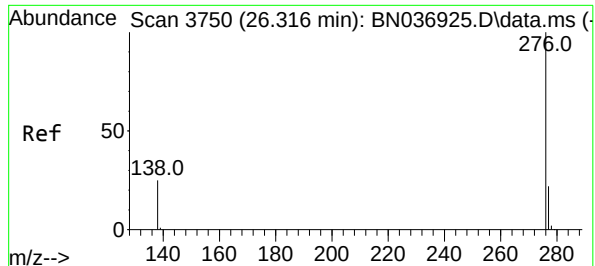
Delta R.T. 0.003 min

Lab File: BN036924.D

Acq: 28 Apr 2025 12:11

Tgt Ion:278	Resp:	2498
Ion Ratio	Lower	Upper
278	100	
139	25.2	17.4 26.2
279	39.7	24.9 37.3





#41

Benzo(g,h,i)perylene

Concen: 0.195 ng

RT: 26.327 min Scan# 31

Delta R.T. 0.012 min

Lab File: BN036924.D

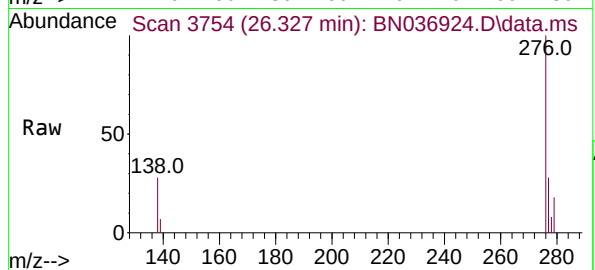
Acq: 28 Apr 2025 12:11

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 2828

Ion Ratio Lower Upper

276 100

277 28.3 20.2 30.2

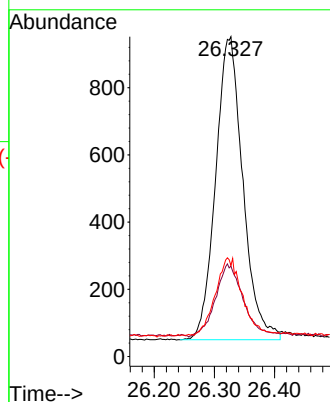
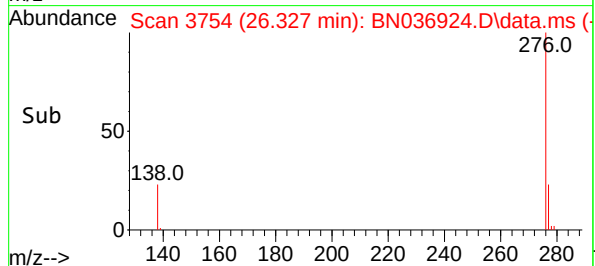
138 28.5 21.9 32.9

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 04/29/2025

Supervised By :Jagrut Upadhyay 04/29/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036925.D
 Acq On : 28 Apr 2025 12:47
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Apr 28 15:12:49 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:11:09 2025
 Response via : Initial Calibration

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

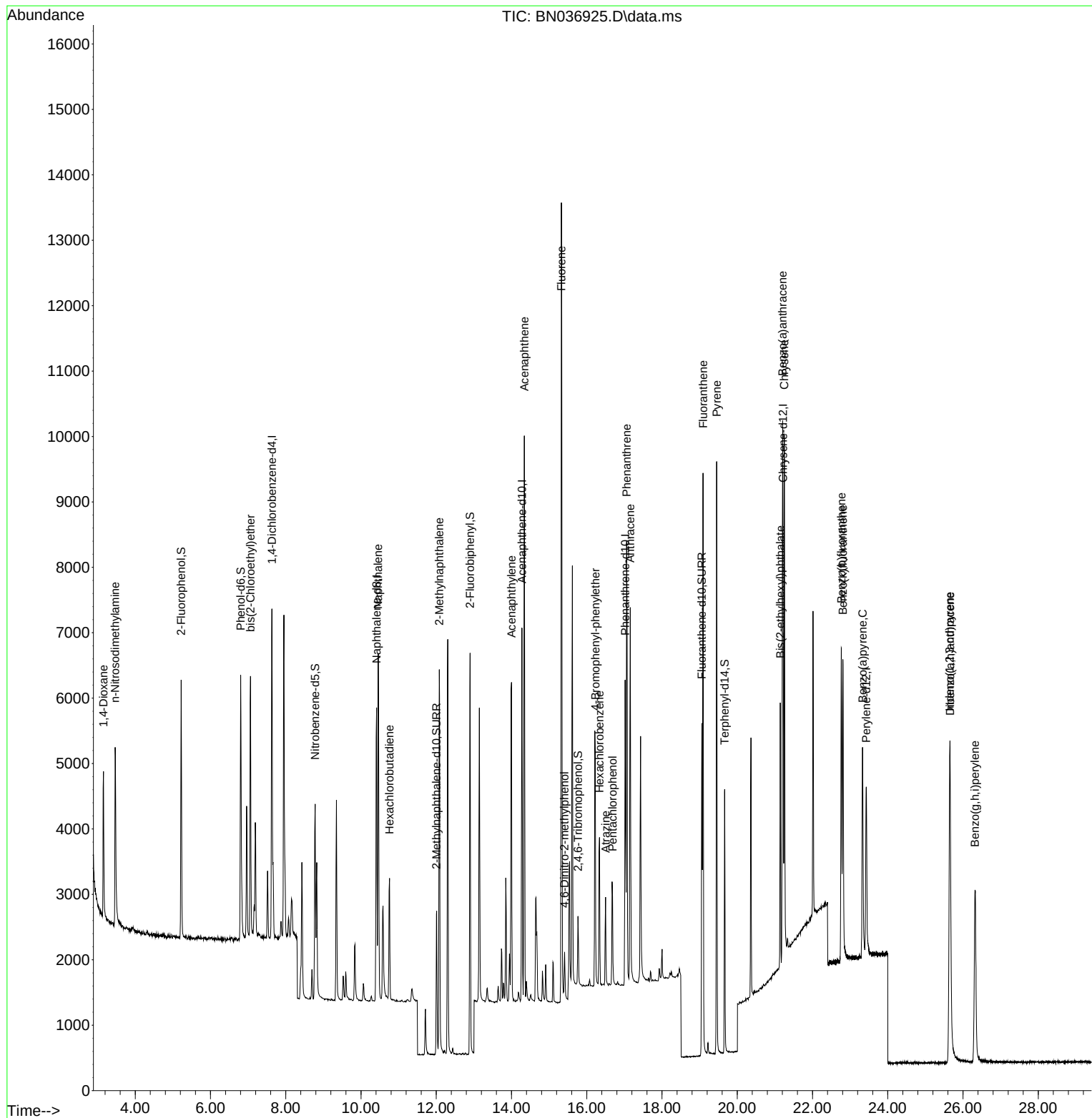
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2374	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	5831	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3051	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	5711	0.400	ng	0.00
29) Chrysene-d12	21.216	240	4119	0.400	ng	0.00
35) Perylene-d12	23.427	264	3630	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	2654	0.433	ng	0.00
5) Phenol-d6	6.802	99	3175	0.425	ng	0.00
8) Nitrobenzene-d5	8.781	82	2394	0.395	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	3153	0.390	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	540	0.404	ng	0.00
15) 2-Fluorobiphenyl	12.899	172	6270	0.425	ng	0.00
27) Fluoranthene-d10	19.059	212	5661	0.387	ng	0.00
31) Terphenyl-d14	19.667	244	3895	0.397	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.155	88	1309	0.437	ng	100
3) n-Nitrosodimethylamine	3.466	42	2398	0.414	ng	100
6) bis(2-Chloroethyl)ether	7.062	93	2778	0.401	ng	100
9) Naphthalene	10.458	128	6735	0.397	ng	100
10) Hexachlorobutadiene	10.757	225	1476	0.399	ng	# 100
12) 2-Methylnaphthalene	12.082	142	4195	0.386	ng	100
16) Acenaphthylene	13.999	152	5817	0.394	ng	100
17) Acenaphthene	14.342	154	3889	0.398	ng	100
18) Fluorene	15.325	166	4955	0.390	ng	100
20) 4,6-Dinitro-2-methylph...	15.411	198	516	0.361	ng	100
21) 4-Bromophenyl-phenylether	16.227	248	1494	0.393	ng	100
22) Hexachlorobenzene	16.338	284	1714	0.408	ng	100
23) Atrazine	16.500	200	1139	0.380	ng	100
24) Pentachlorophenol	16.686	266	824	0.378	ng	100
25) Phenanthrene	17.058	178	7417	0.395	ng	100
26) Anthracene	17.158	178	6553	0.390	ng	100
28) Fluoranthene	19.091	202	7988	0.384	ng	100
30) Pyrene	19.454	202	8067	0.403	ng	100
32) Benzo(a)anthracene	21.207	228	5885	0.392	ng	100
33) Chrysene	21.251	228	6742	0.410	ng	100
34) Bis(2-ethylhexyl)phtha...	21.144	149	3434	0.400	ng	100
36) Indeno(1,2,3-cd)pyrene	25.646	276	6214	0.418	ng	100
37) Benzo(b)fluoranthene	22.766	252	5932	0.394	ng	100
38) Benzo(k)fluoranthene	22.807	252	5983	0.393	ng	100
39) Benzo(a)pyrene	23.331	252	4940	0.398	ng	100
40) Dibenzo(a,h)anthracene	25.658	278	4897	0.419	ng	100
41) Benzo(g,h,i)perylene	26.316	276	5500	0.420	ng	100

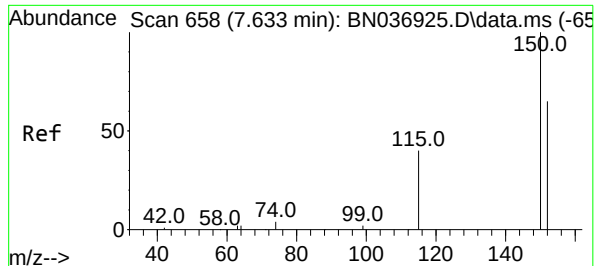
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036925.D
Acq On : 28 Apr 2025 12:47
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Apr 28 15:12:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration

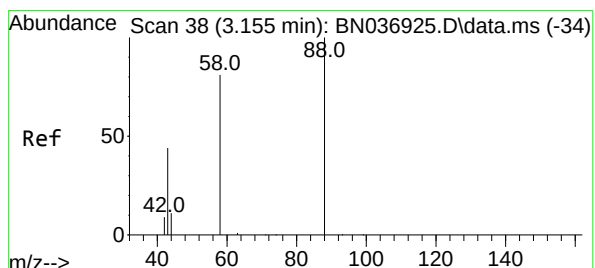
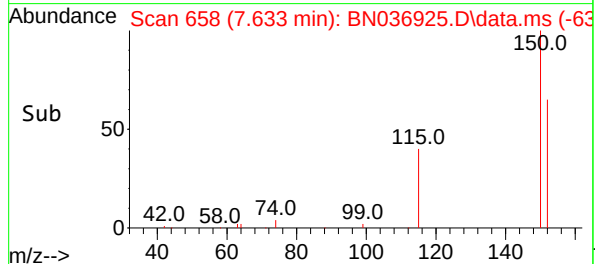
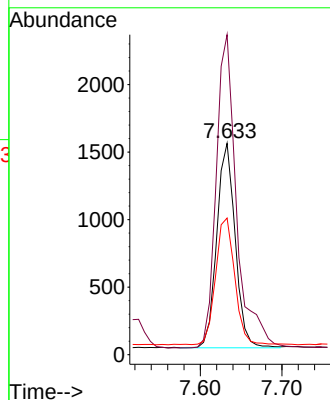
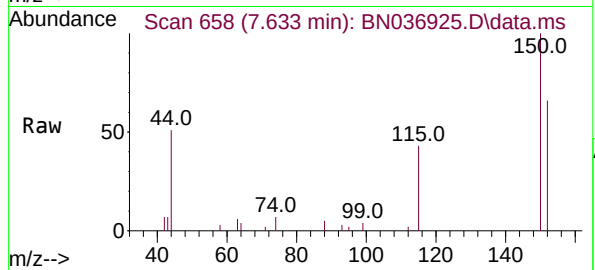




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

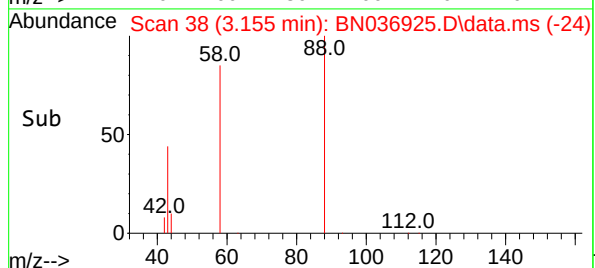
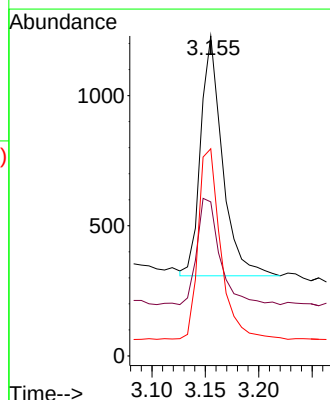
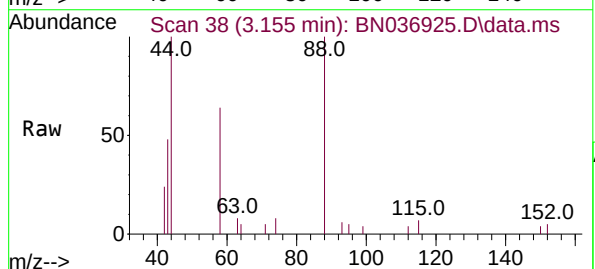
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

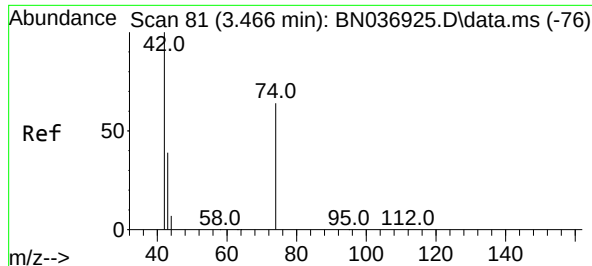
Tgt Ion: 152 Resp: 2374
Ion Ratio Lower Upper
152 100
150 151.4 121.1 181.7
115 64.7 51.8 77.6



#2
1,4-Dioxane
Concen: 0.437 ng
RT: 3.155 min Scan# 38
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion: 88 Resp: 1309
Ion Ratio Lower Upper
88 100
43 47.4 37.9 56.9
58 82.2 65.8 98.6

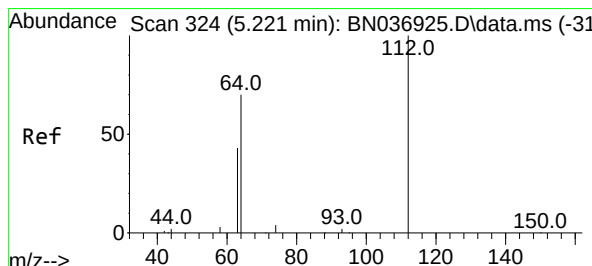
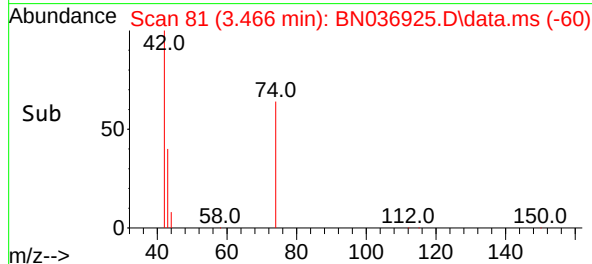
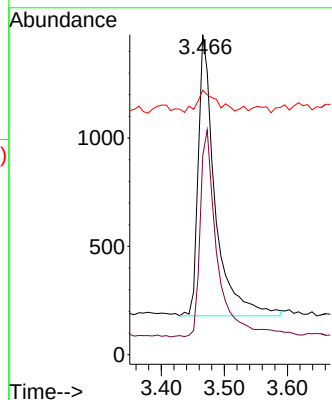
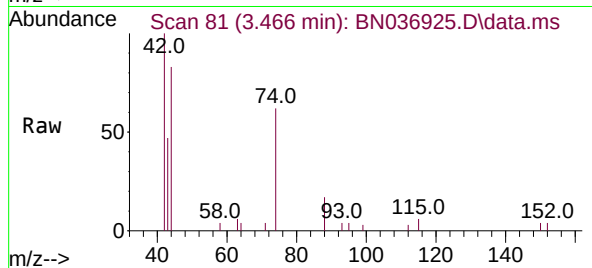




#3
n-Nitrosodimethylamine
Concen: 0.414 ng
RT: 3.466 min Scan# 81
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

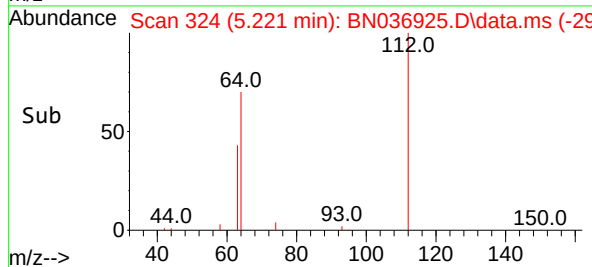
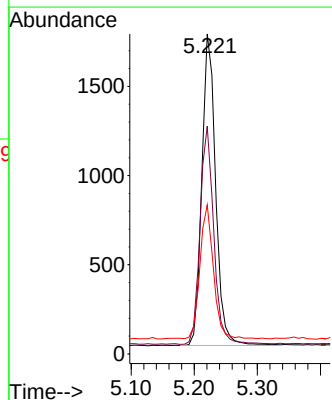
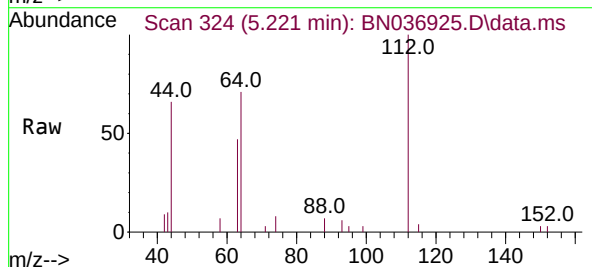
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

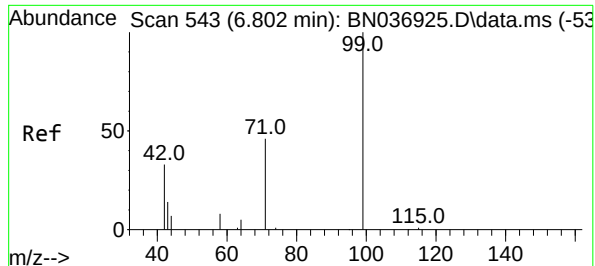
Tgt Ion: 42 Resp: 2398
Ion Ratio Lower Upper
42 100
74 74.9 59.9 89.9
44 9.4 7.5 11.3



#4
2-Fluorophenol
Concen: 0.433 ng
RT: 5.221 min Scan# 324
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion: 112 Resp: 2654
Ion Ratio Lower Upper
112 100
64 69.6 55.7 83.5
63 42.4 33.9 50.9

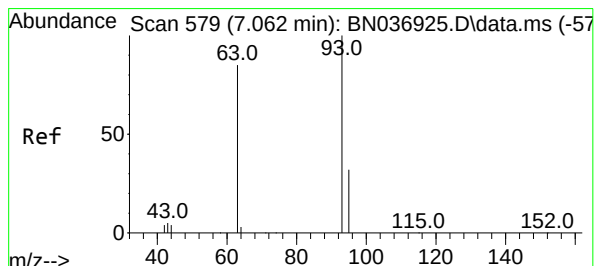
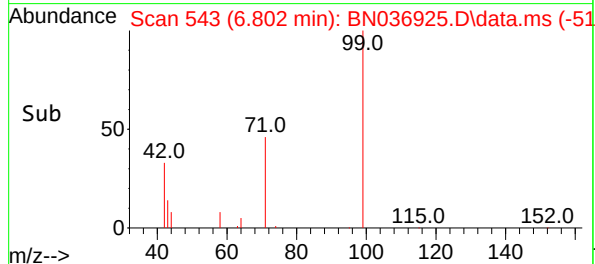
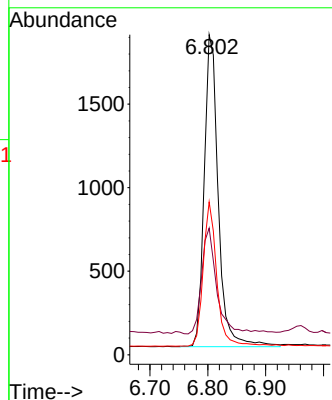
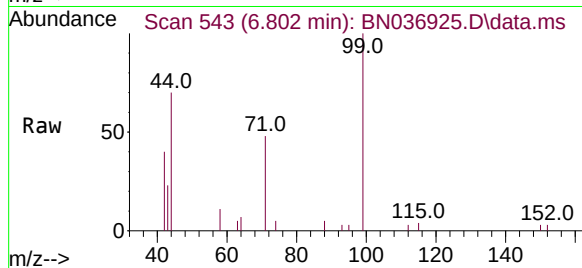




#5
Phenol-d6
Concen: 0.425 ng
RT: 6.802 min Scan# 543
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

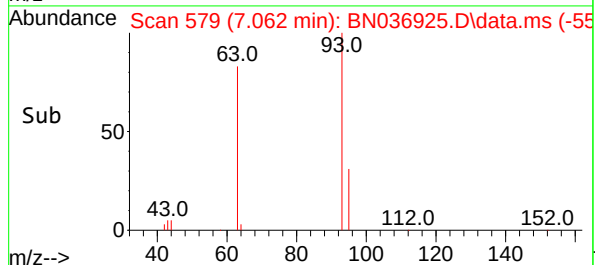
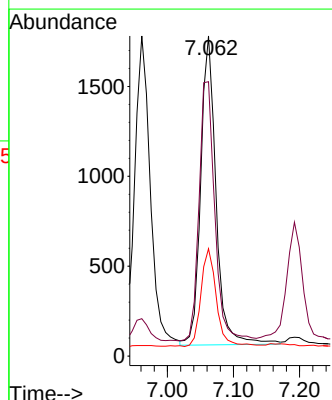
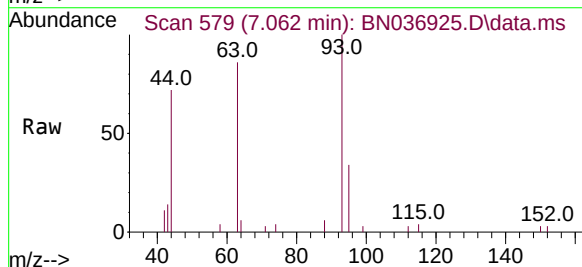
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

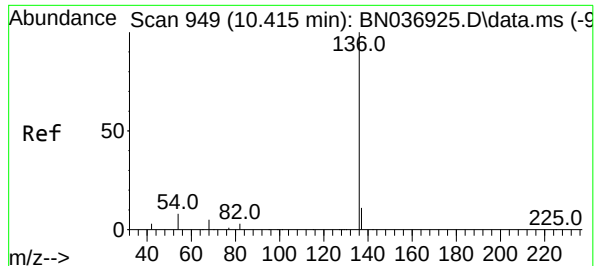
Tgt Ion: 99 Resp: 3175
Ion Ratio Lower Upper
99 100
42 37.0 29.6 44.4
71 45.0 36.0 54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.401 ng
RT: 7.062 min Scan# 579
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion: 93 Resp: 2778
Ion Ratio Lower Upper
93 100
63 86.3 69.0 103.6
95 31.7 25.4 38.0

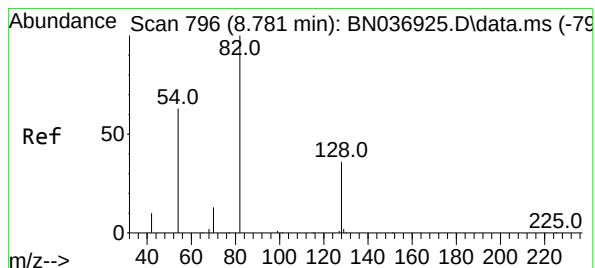
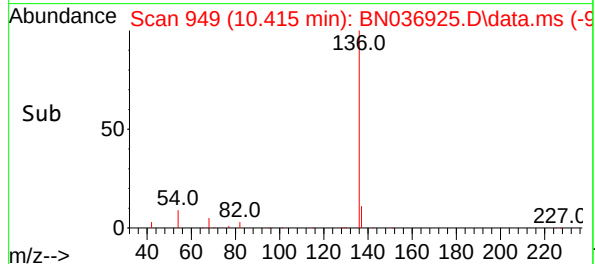
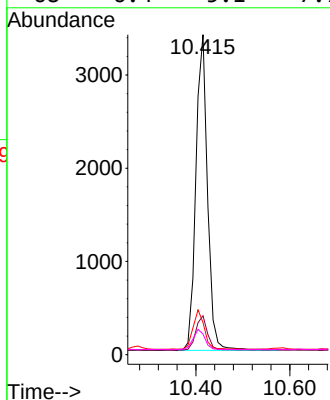
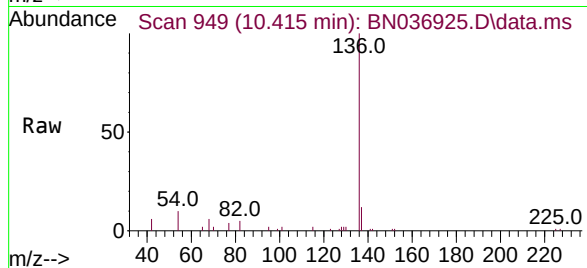




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

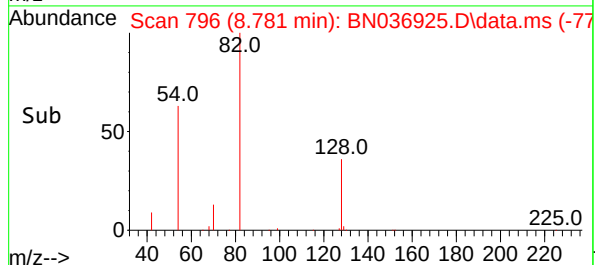
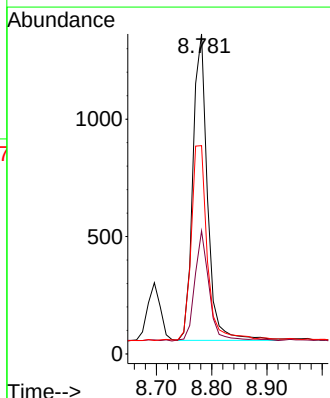
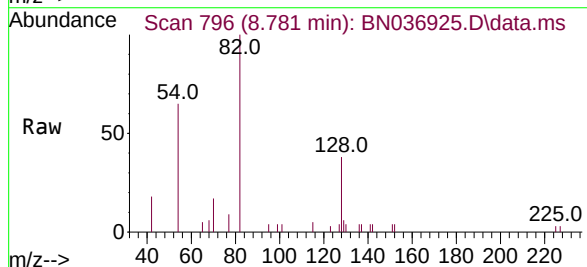
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

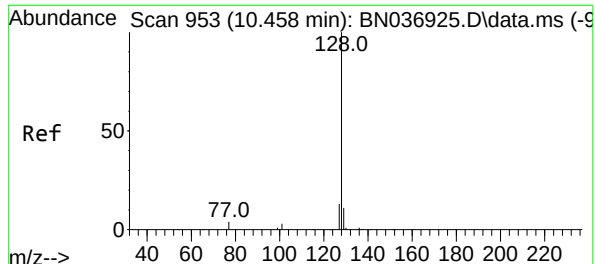
Tgt Ion:	136	Resp:	5831
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.7	14.5
54	10.0	8.0	12.0
68	6.4	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.395 ng
RT: 8.781 min Scan# 796
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:	82	Resp:	2394
Ion	Ratio	Lower	Upper
82	100		
128	38.4	30.7	46.1
54	65.1	52.1	78.1





#9

Naphthalene

Concen: 0.397 ng

RT: 10.458 min Scan# 953

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

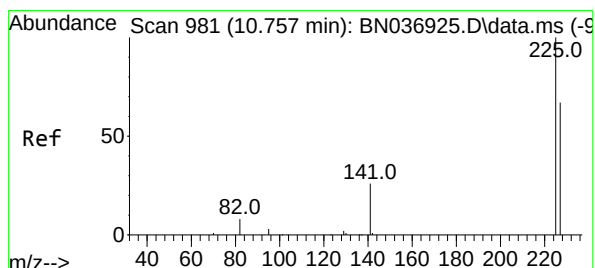
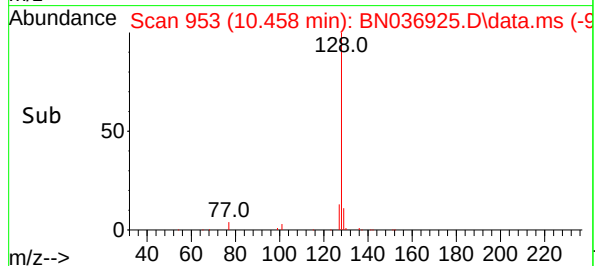
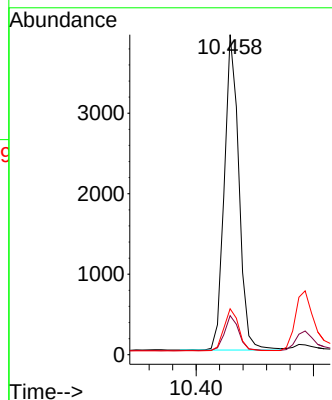
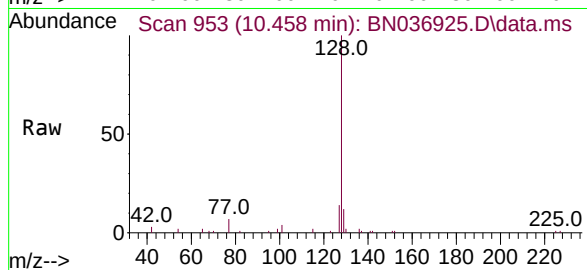
Tgt Ion:128 Resp: 6735

Ion Ratio Lower Upper

128 100

129 12.2 9.8 14.6

127 14.3 11.4 17.2



#10

Hexachlorobutadiene

Concen: 0.399 ng

RT: 10.757 min Scan# 981

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

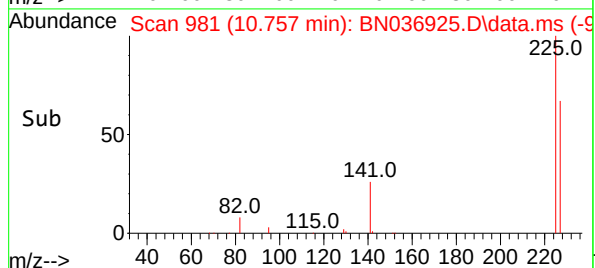
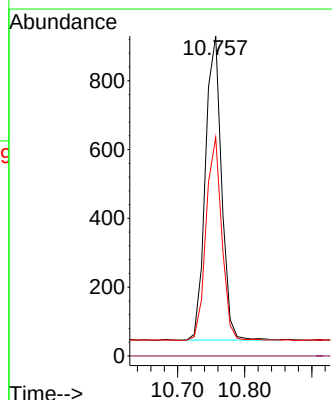
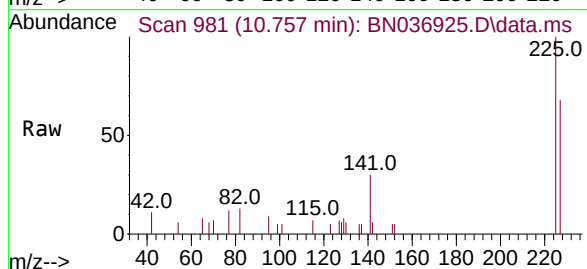
Tgt Ion:225 Resp: 1476

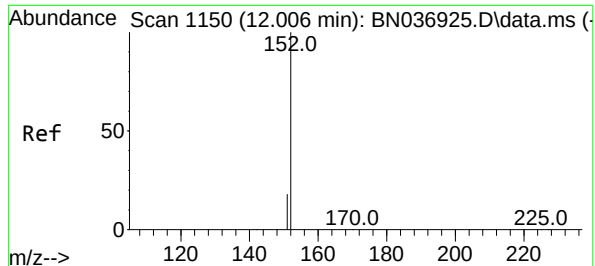
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 65.3 52.2 78.4

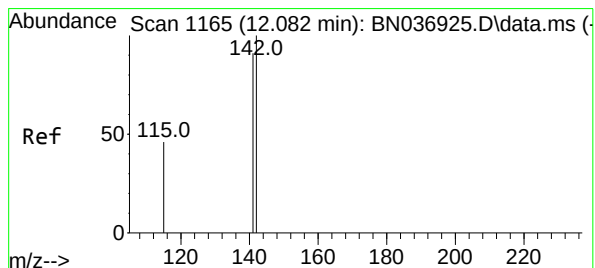
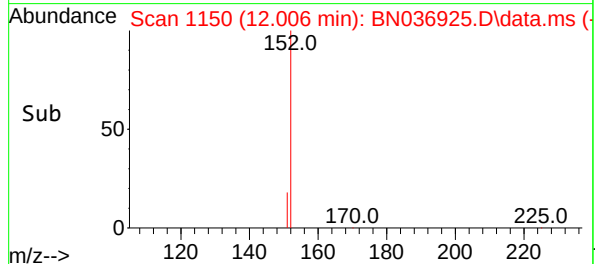
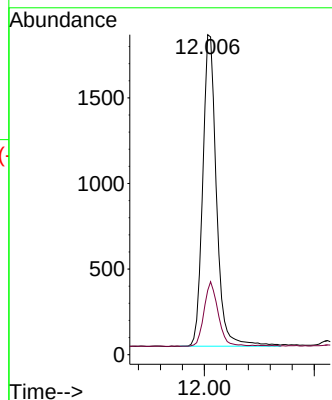
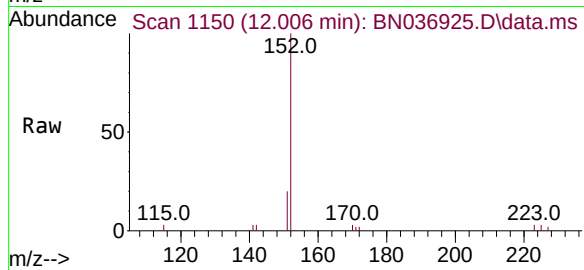




#11
2-Methylnaphthalene-d10
Concen: 0.390 ng
RT: 12.006 min Scan# 1150
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

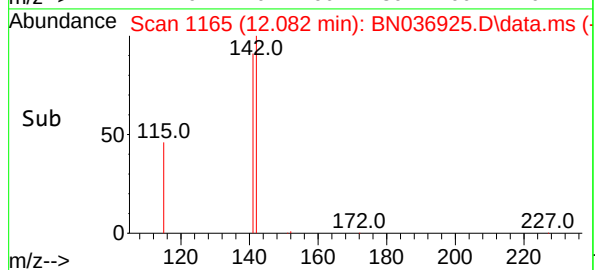
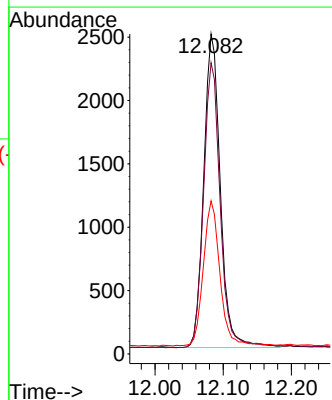
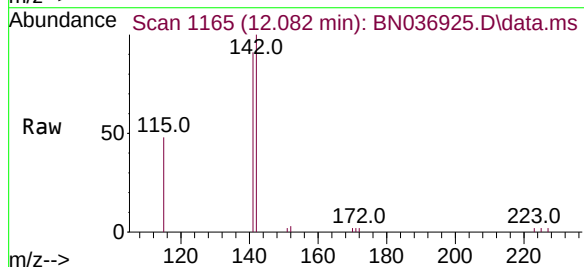
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

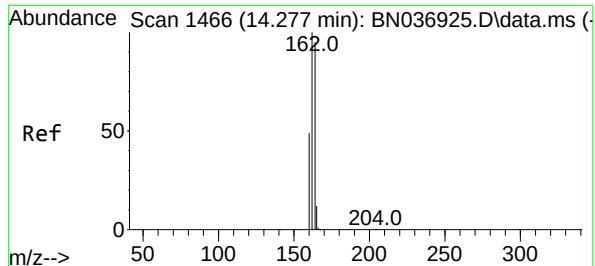
Tgt Ion:152 Resp: 3153
Ion Ratio Lower Upper
152 100
151 21.1 16.9 25.3



#12
2-Methylnaphthalene
Concen: 0.386 ng
RT: 12.082 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:142 Resp: 4195
Ion Ratio Lower Upper
142 100
141 91.0 72.8 109.2
115 47.8 38.2 57.4

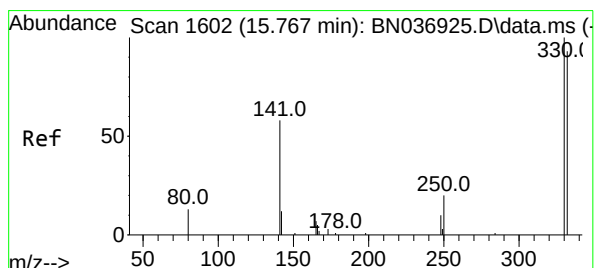
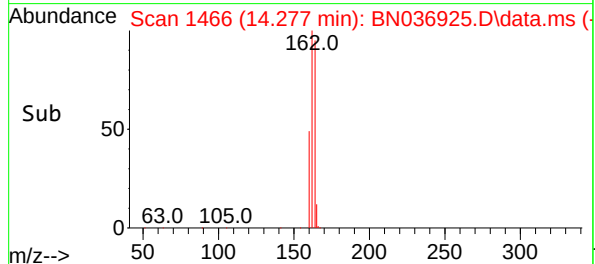
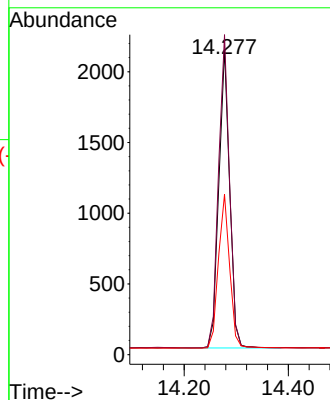
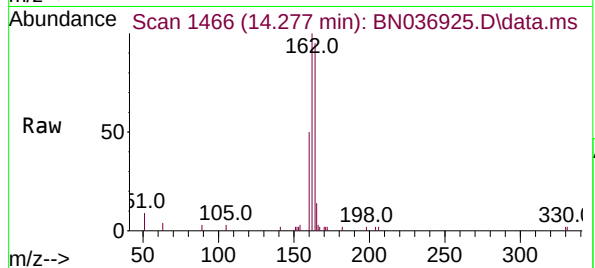




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

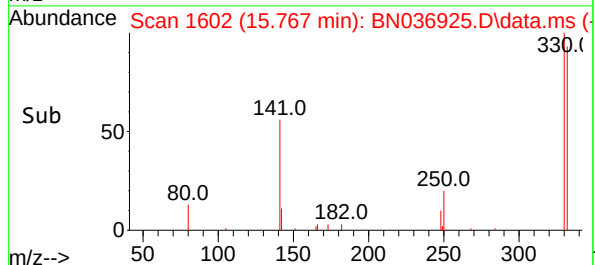
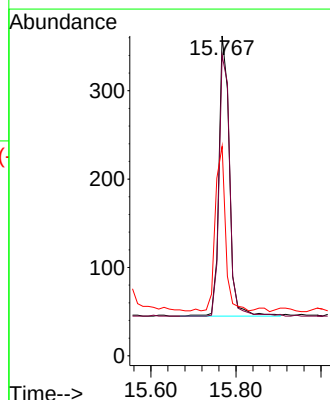
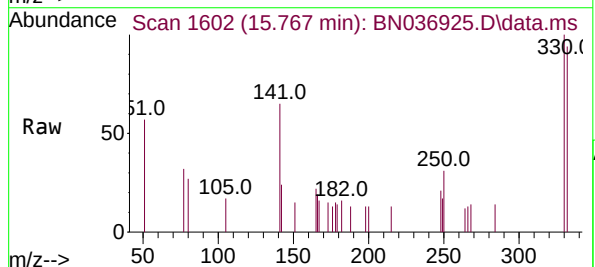
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

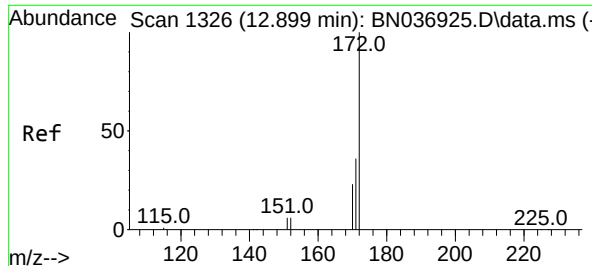
Tgt Ion:164 Resp: 3051
Ion Ratio Lower Upper
164 100
162 104.8 83.8 125.8
160 52.5 42.0 63.0



#14
2,4,6-Tribromophenol
Concen: 0.404 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:330 Resp: 540
Ion Ratio Lower Upper
330 100
332 95.7 76.3 114.5
141 57.8 45.4 68.2

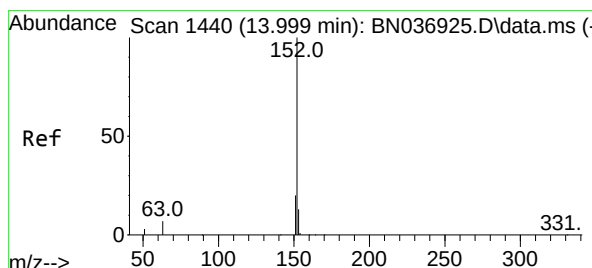
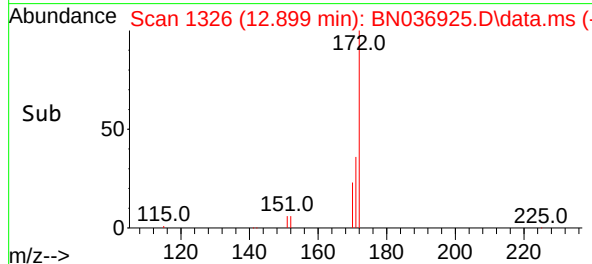
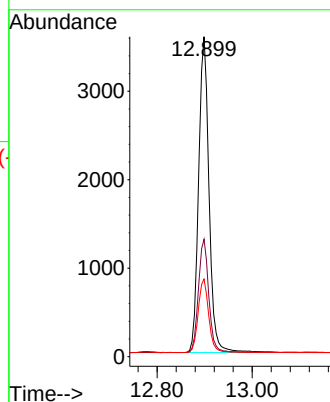
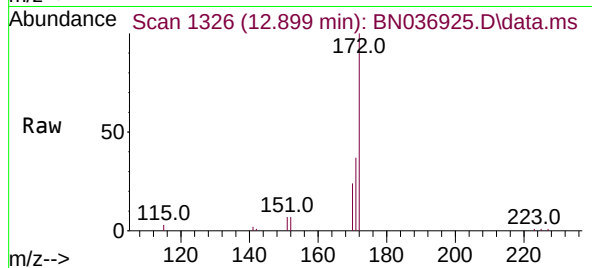




#15
2-Fluorobiphenyl
Concen: 0.425 ng
RT: 12.899 min Scan# 1326
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

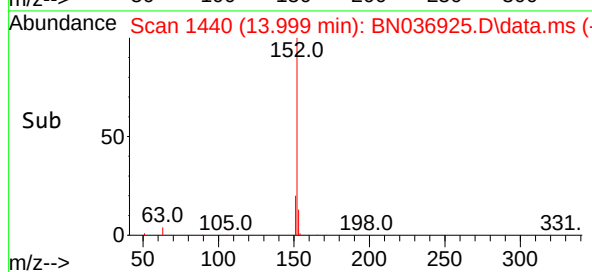
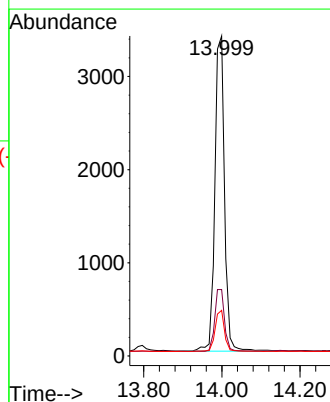
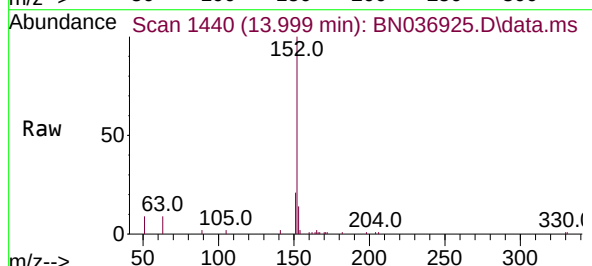
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

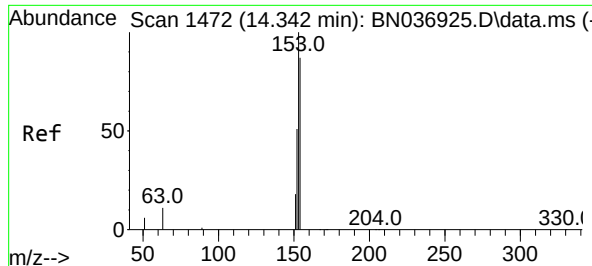
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.7	29.4	44.0
170	24.2	19.4	29.0



#16
Acenaphthylene
Concen: 0.394 ng
RT: 13.999 min Scan# 1440
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0
153	12.7	10.2	15.2

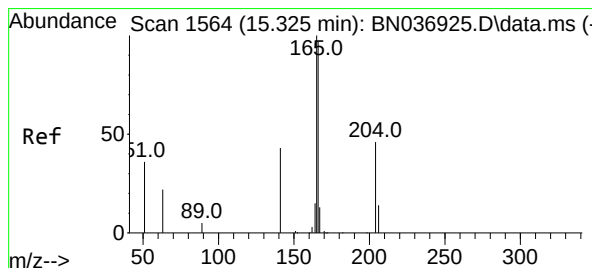
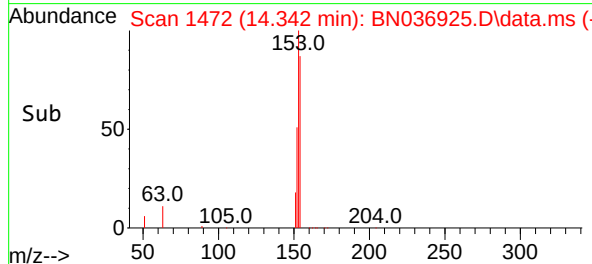
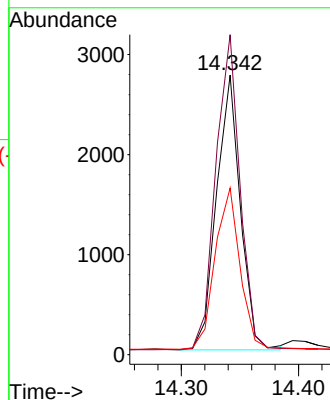
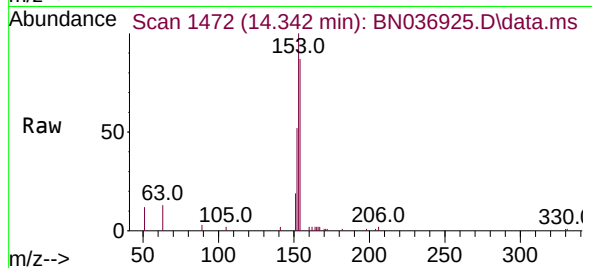




#17
Acenaphthene
Concen: 0.398 ng
RT: 14.342 min Scan# 1472
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

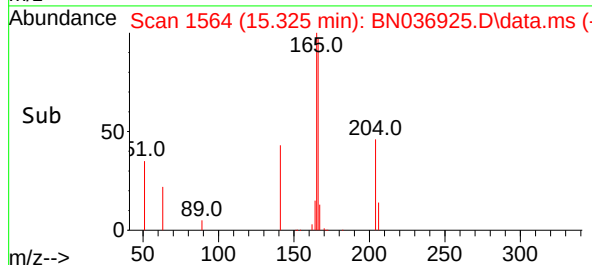
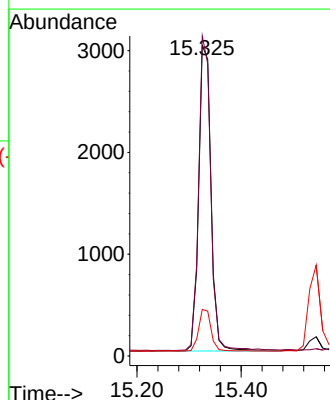
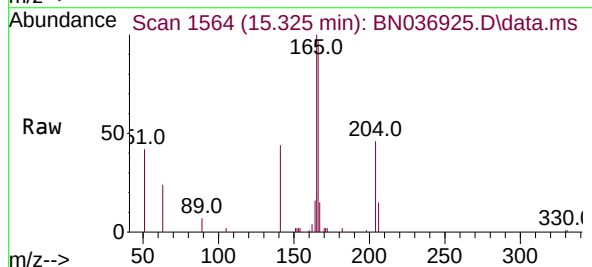
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

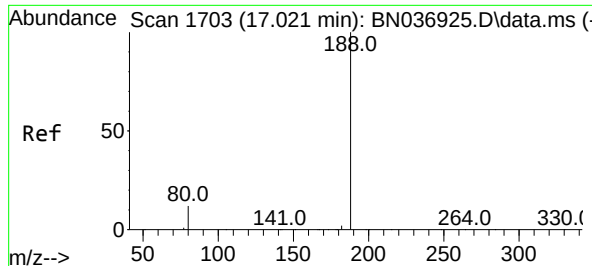
Tgt Ion:154 Resp: 3889
Ion Ratio Lower Upper
154 100
153 116.8 93.4 140.2
152 61.9 49.5 74.3



#18
Fluorene
Concen: 0.390 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion:166 Resp: 4955
Ion Ratio Lower Upper
166 100
165 101.0 80.8 121.2
167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

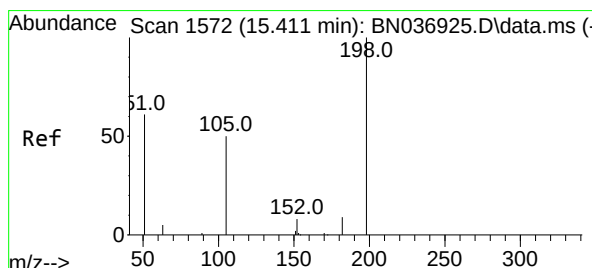
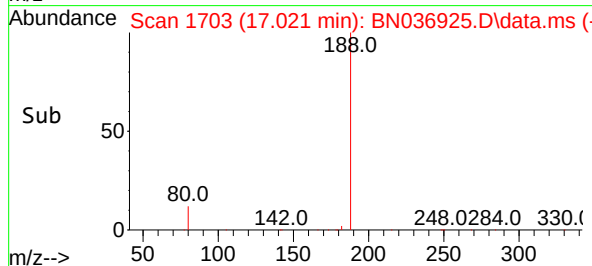
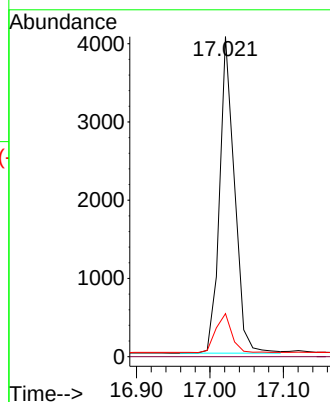
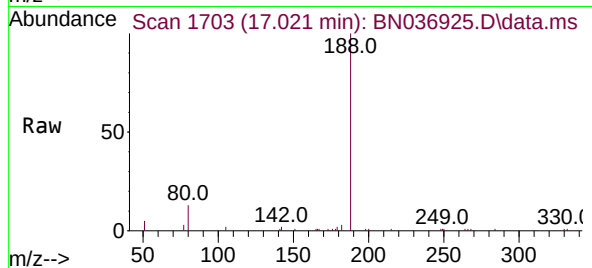
Tgt Ion:188 Resp: 5711

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.4 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 0.361 ng

RT: 15.411 min Scan# 1572

Delta R.T. -0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

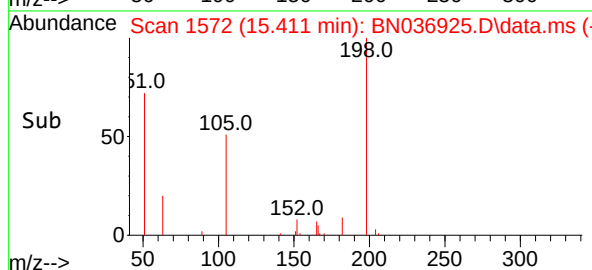
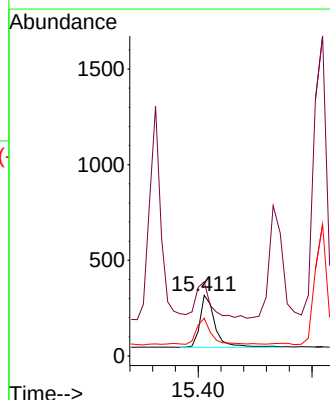
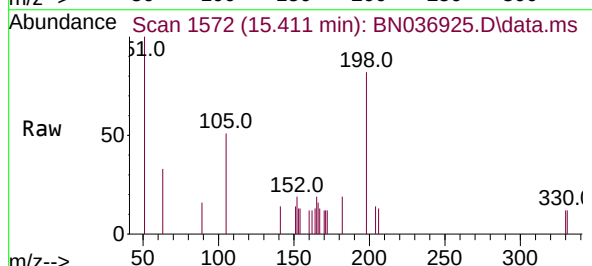
Tgt Ion:198 Resp: 516

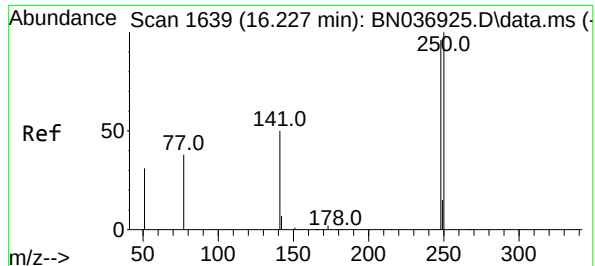
Ion Ratio Lower Upper

198 100

51 122.4 97.9 146.9

105 62.5 50.0 75.0

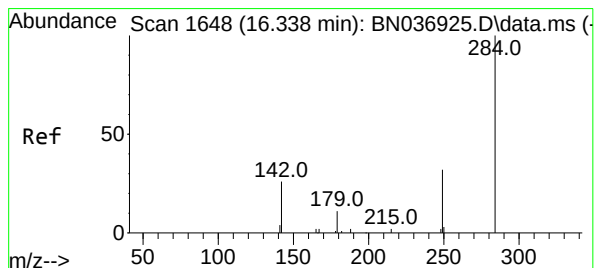
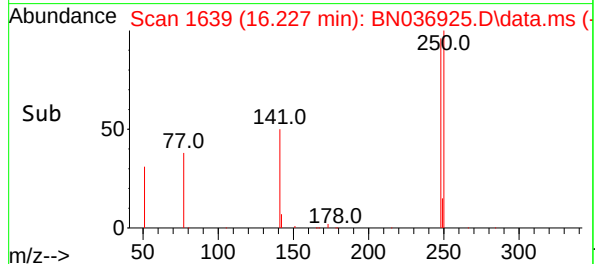
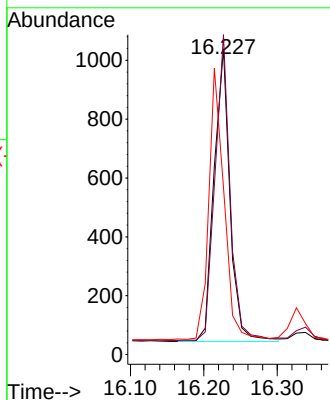
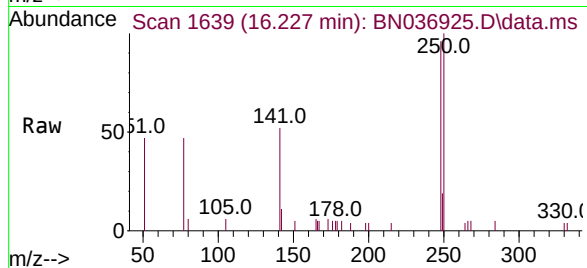




#21
4-Bromophenyl-phenylether
Concen: 0.393 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

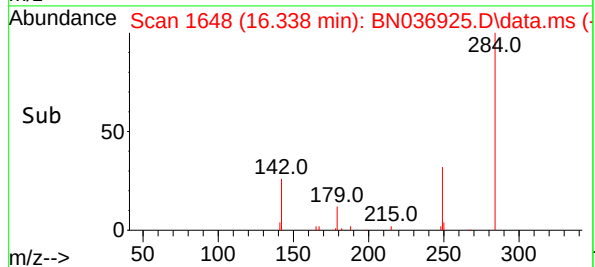
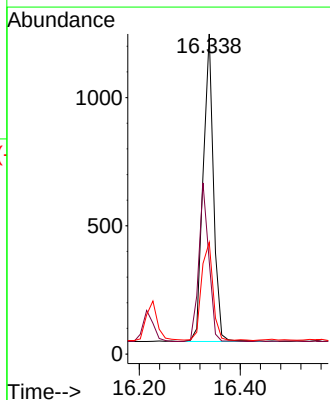
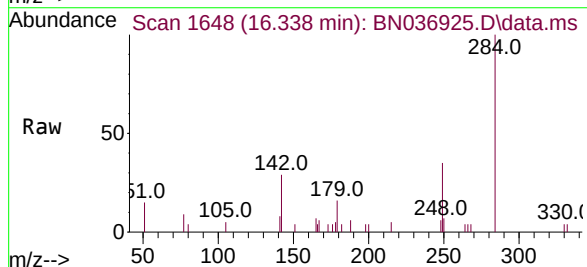
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

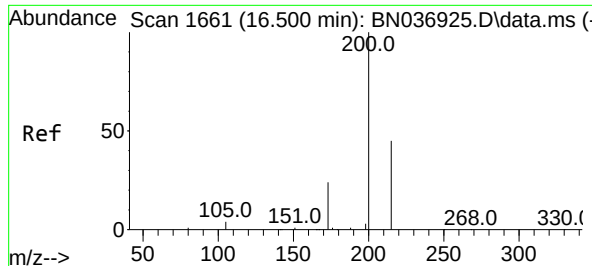
Tgt Ion	Ratio	Lower	Upper
248	100		
250	104.6	83.7	125.5
141	54.8	43.8	65.8



#22
Hexachlorobenzene
Concen: 0.408 ng
RT: 16.338 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion	Ratio	Lower	Upper
284	100		
142	50.0	40.0	60.0
249	35.2	28.2	42.2

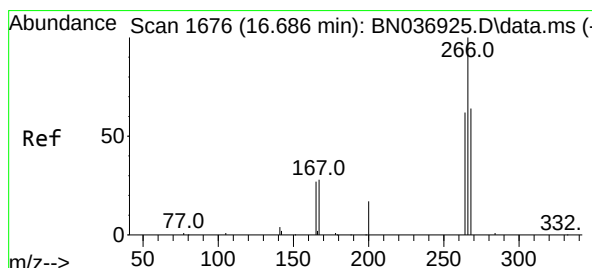
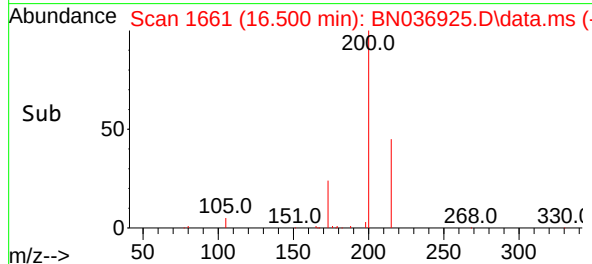
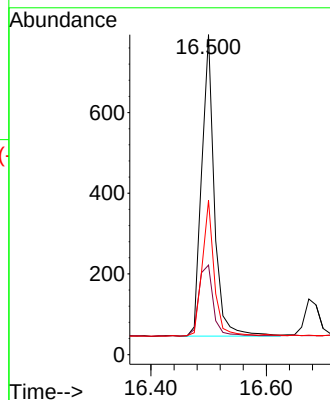
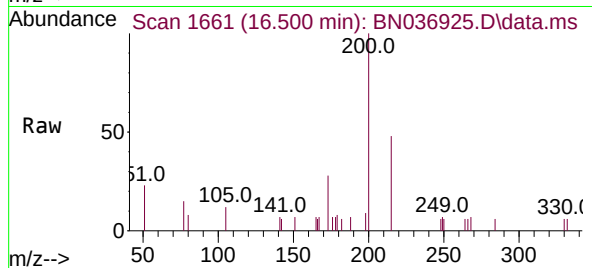




#23
Atrazine
Concen: 0.380 ng
RT: 16.500 min Scan# 1661
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

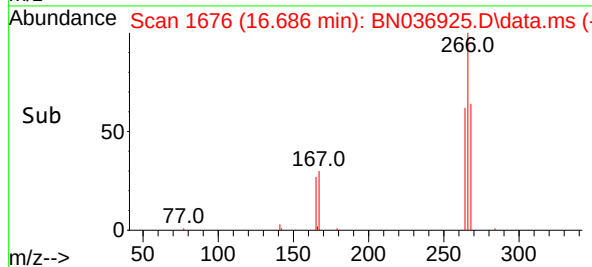
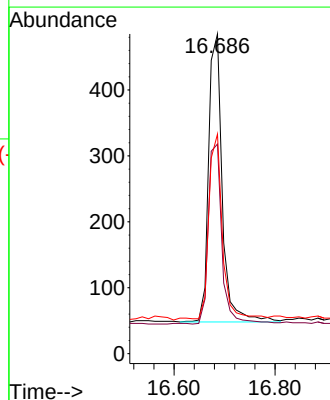
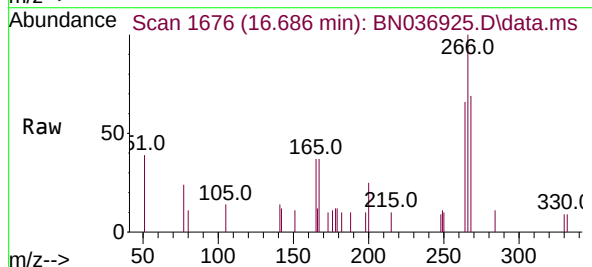
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

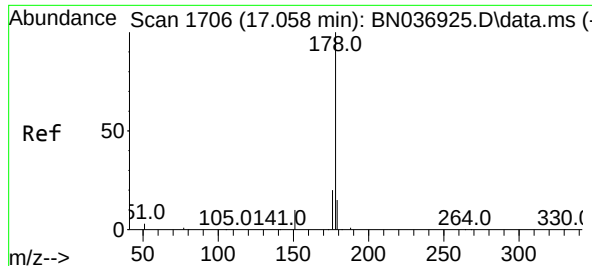
Tgt Ion	Ratio	Lower	Upper
200	100		
173	28.0	22.4	33.6
215	48.2	38.6	57.8



#24
Pentachlorophenol
Concen: 0.378 ng
RT: 16.686 min Scan# 1676
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.4	49.9	74.9
268	65.3	52.2	78.4

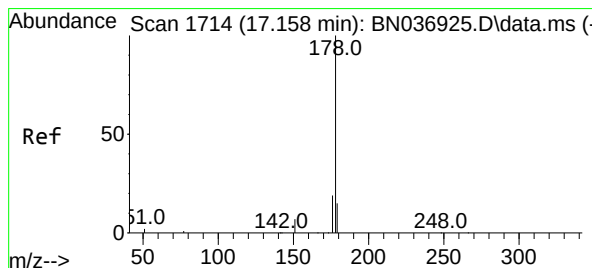
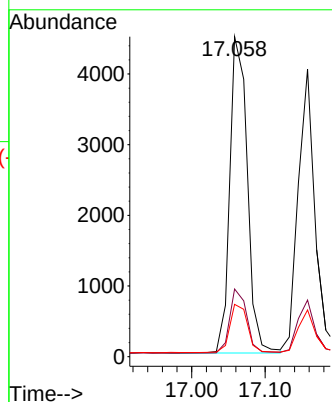
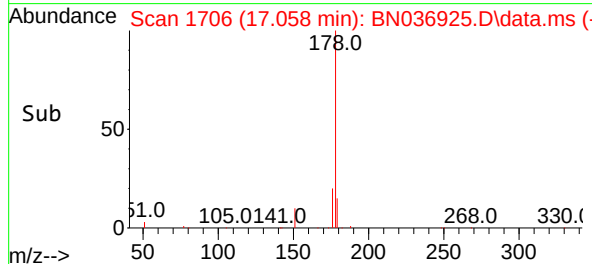
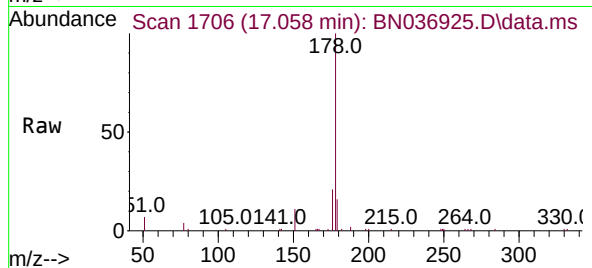




#25
Phenanthrene
Concen: 0.395 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

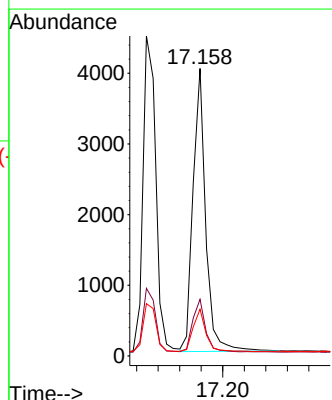
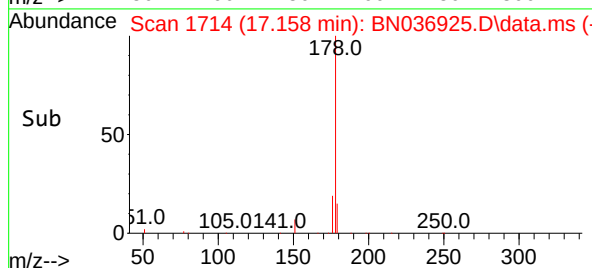
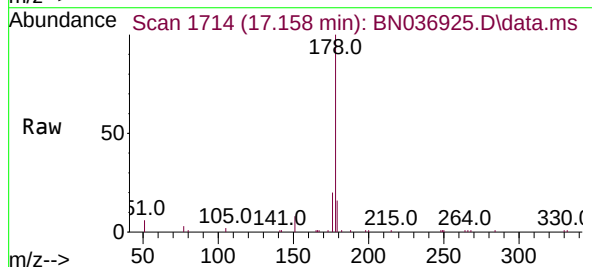
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

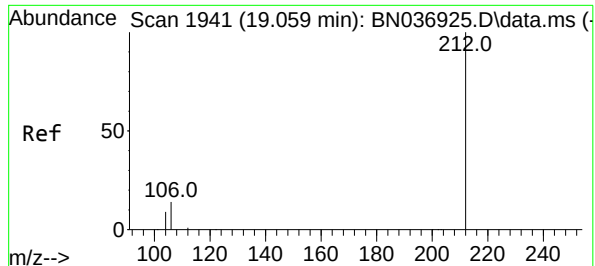
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.7	23.5
179	15.5	12.4	18.6



#26
Anthracene
Concen: 0.390 ng
RT: 17.158 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.0	12.1	18.1





#27

Fluoranthene-d10

Concen: 0.387 ng

RT: 19.059 min Scan# 1941

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

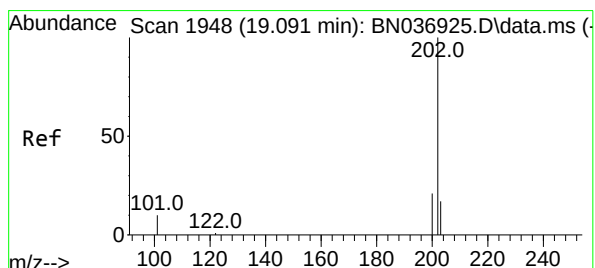
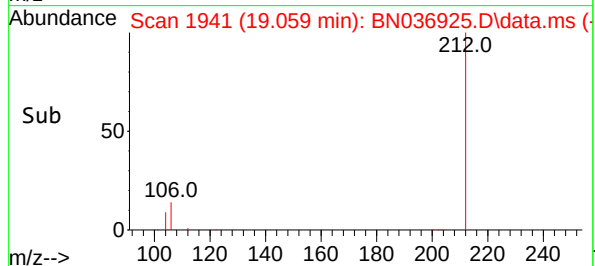
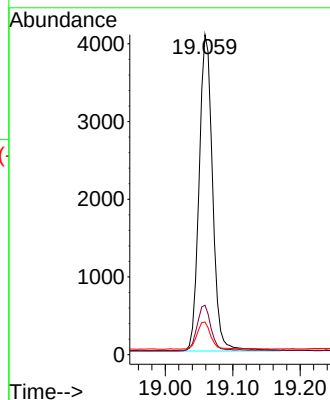
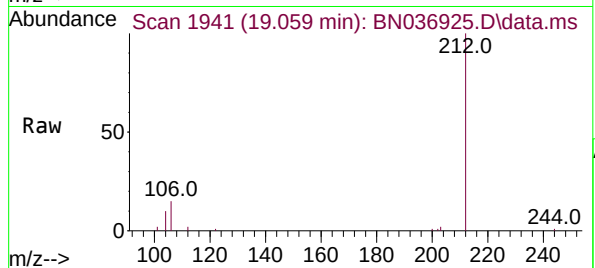
Tgt Ion:212 Resp: 5661

Ion Ratio Lower Upper

212 100

106 14.5 11.6 17.4

104 8.7 7.0 10.4



#28

Fluoranthene

Concen: 0.384 ng

RT: 19.091 min Scan# 1948

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

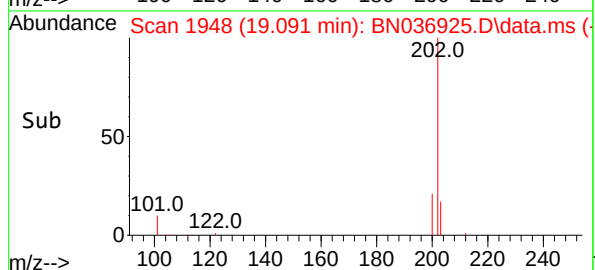
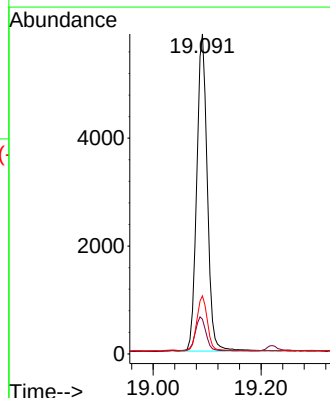
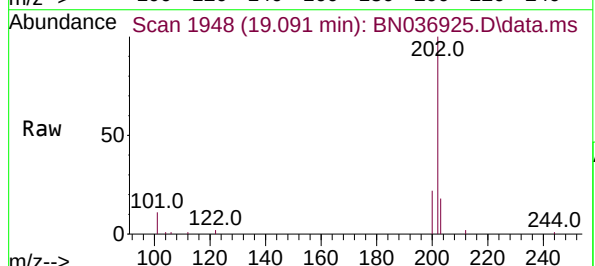
Tgt Ion:202 Resp: 7988

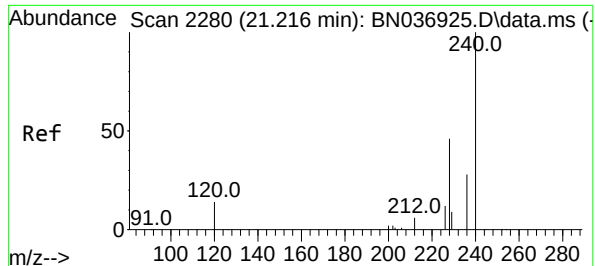
Ion Ratio Lower Upper

202 100

101 10.6 8.5 12.7

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.216 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

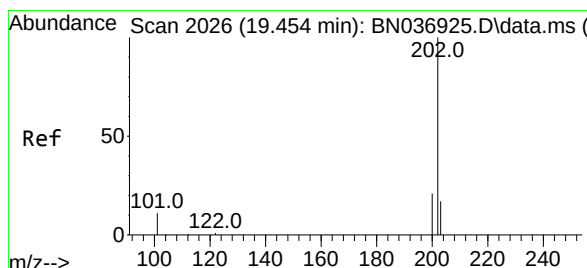
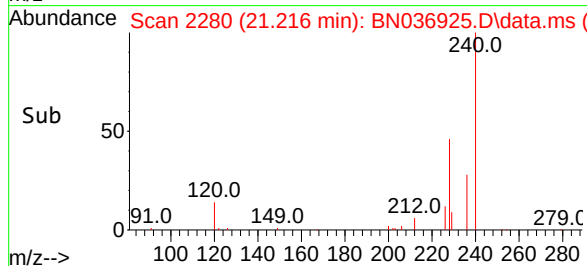
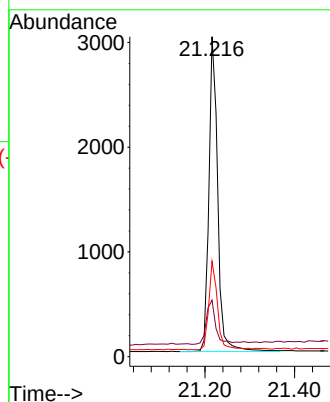
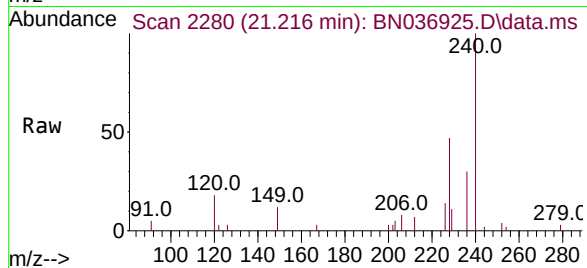
Tgt Ion:240 Resp: 4119

Ion Ratio Lower Upper

240 100

120 17.6 14.1 21.1

236 29.8 23.8 35.8



#30

Pyrene

Concen: 0.403 ng

RT: 19.454 min Scan# 2026

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

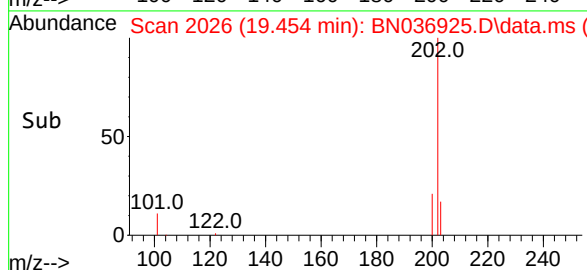
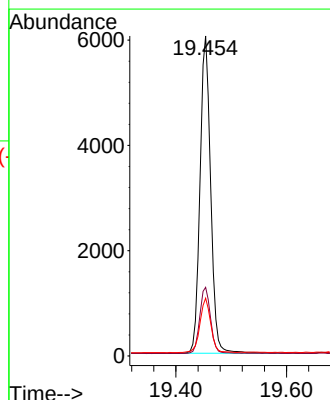
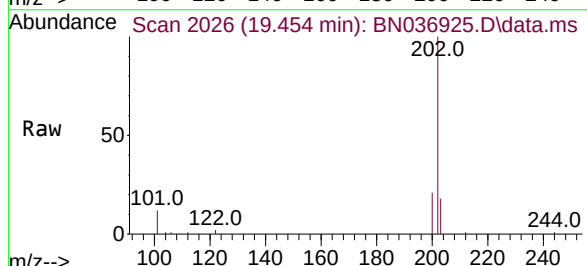
Tgt Ion:202 Resp: 8067

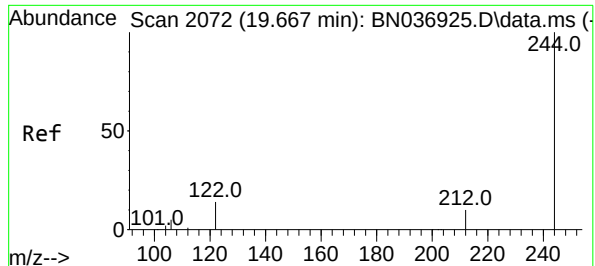
Ion Ratio Lower Upper

202 100

200 21.3 17.0 25.6

203 17.5 14.0 21.0

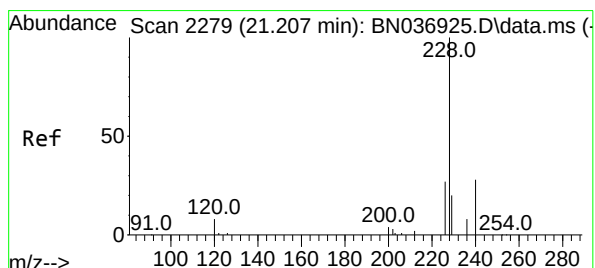
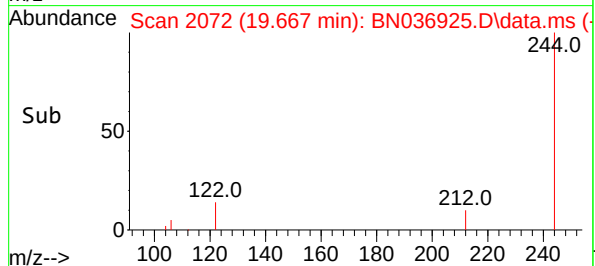
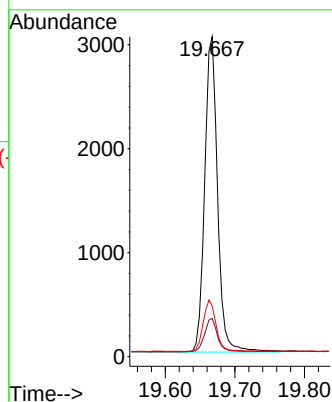
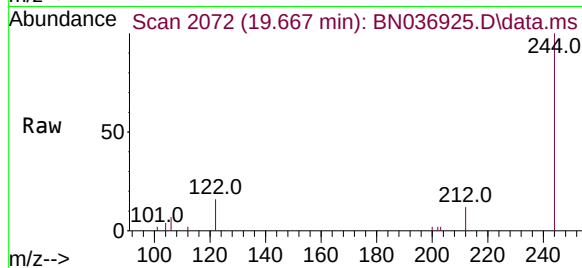




#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.667 min Scan# 2072
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

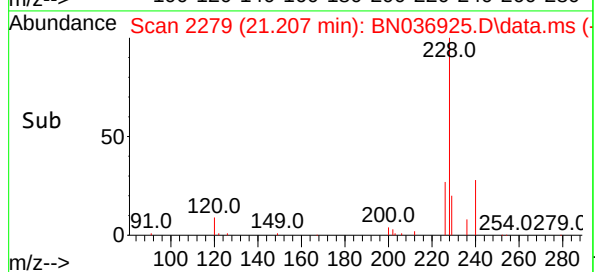
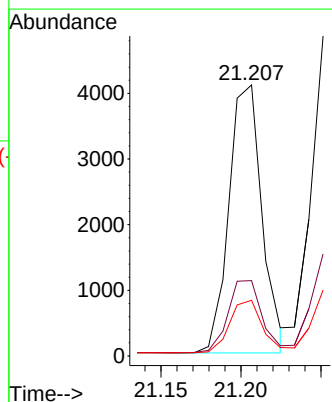
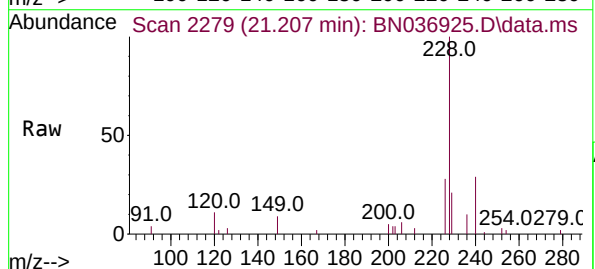
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

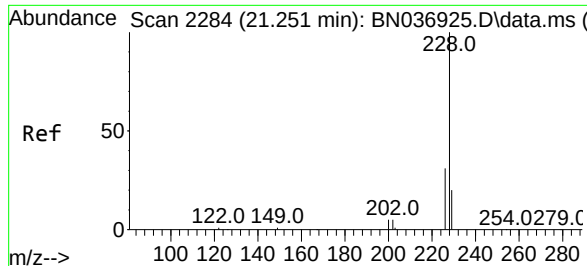
Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.6	14.4
122	15.9	12.7	19.1



#32
Benzo(a)anthracene
Concen: 0.392 ng
RT: 21.207 min Scan# 2279
Delta R.T. 0.000 min
Lab File: BN036925.D
Acq: 28 Apr 2025 12:47

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.2	33.4
229	20.5	16.4	24.6





#33

Chrysene

Concen: 0.410 ng

RT: 21.251 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

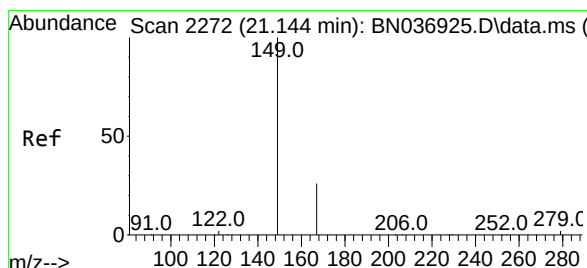
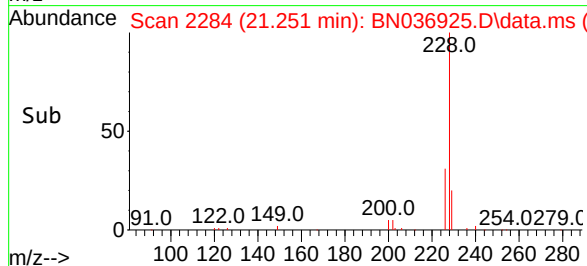
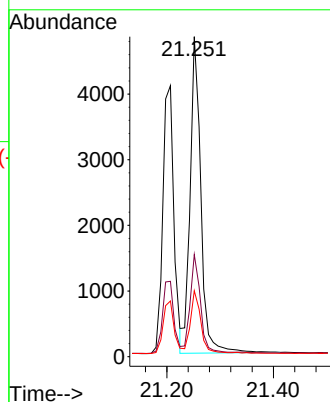
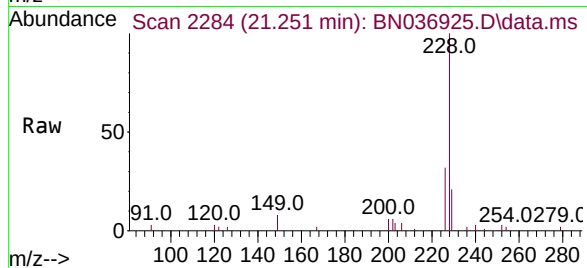
Tgt Ion:228 Resp: 6742

Ion Ratio Lower Upper

228 100

226 31.9 25.5 38.3

229 20.6 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.400 ng

RT: 21.144 min Scan# 2272

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

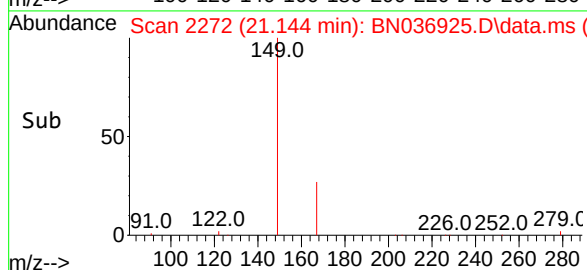
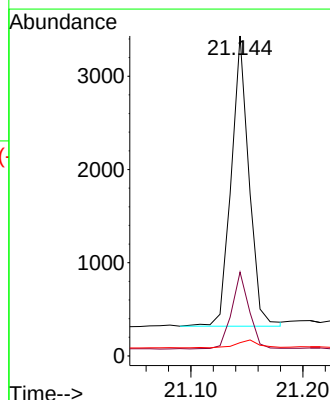
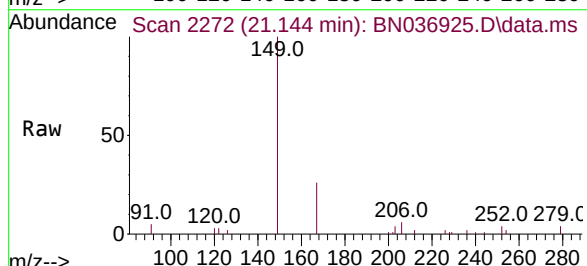
Tgt Ion:149 Resp: 3434

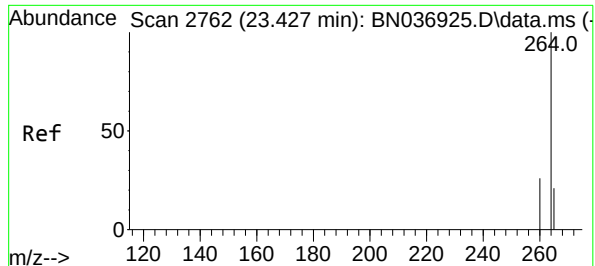
Ion Ratio Lower Upper

149 100

167 26.1 21.0 31.6

279 3.4 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.427 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

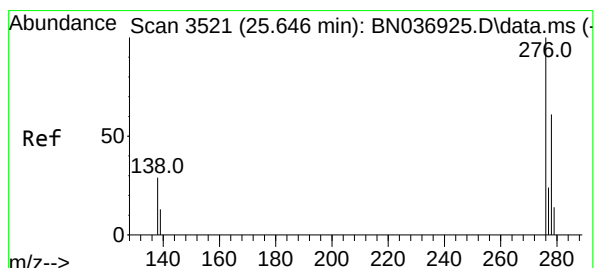
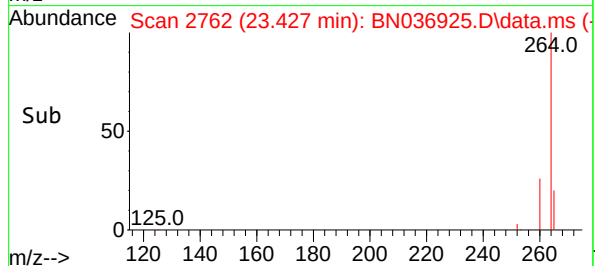
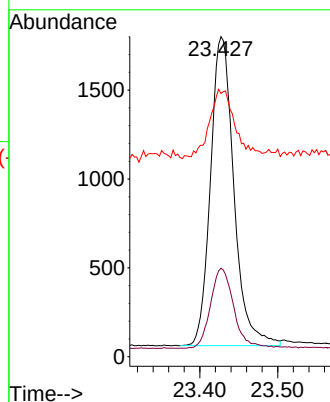
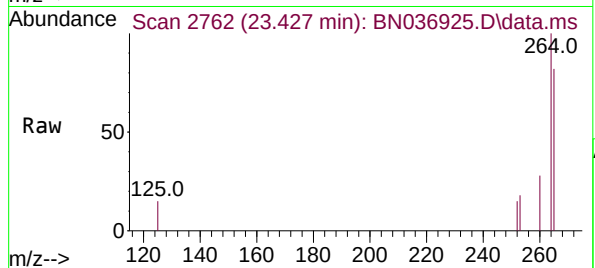
Tgt Ion:264 Resp: 3630

Ion Ratio Lower Upper

264 100

260 27.7 22.2 33.2

265 82.2 65.8 98.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.418 ng

RT: 25.646 min Scan# 3521

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

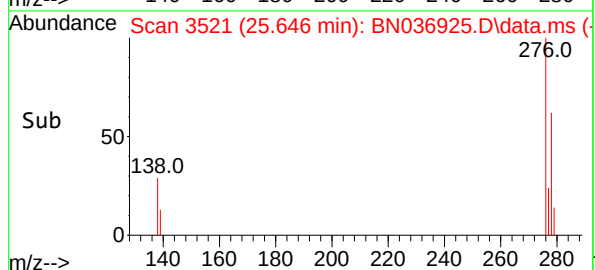
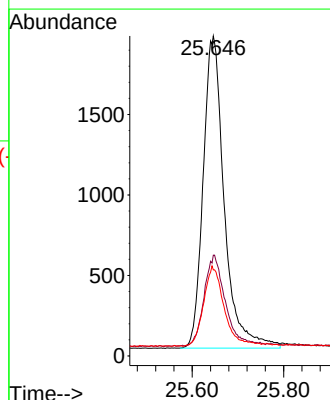
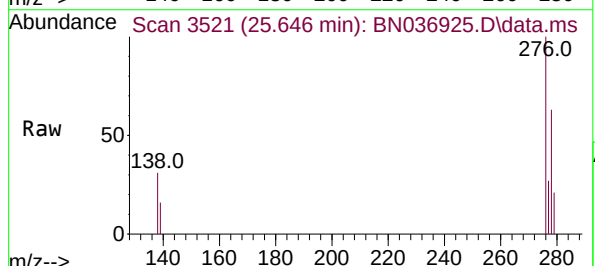
Tgt Ion:276 Resp: 6214

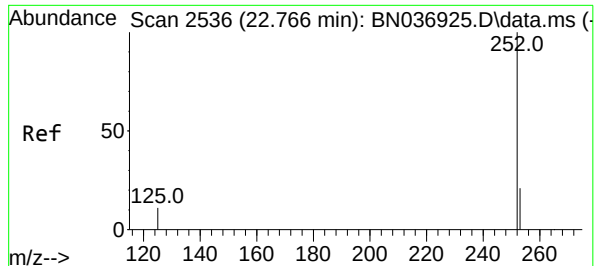
Ion Ratio Lower Upper

276 100

138 28.8 23.0 34.6

277 25.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.394 ng

RT: 22.766 min Scan# 2536

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

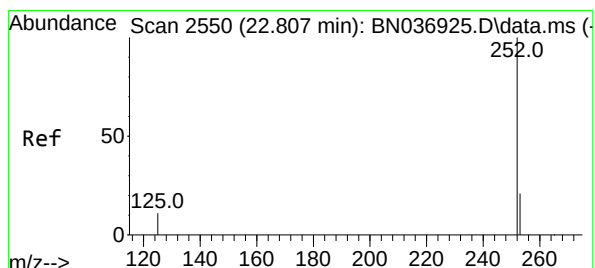
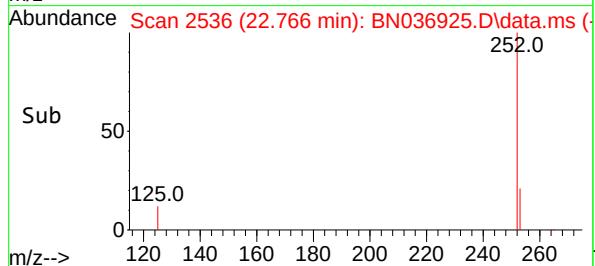
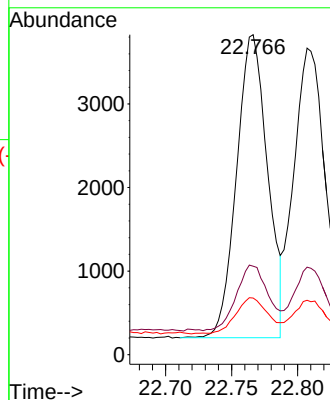
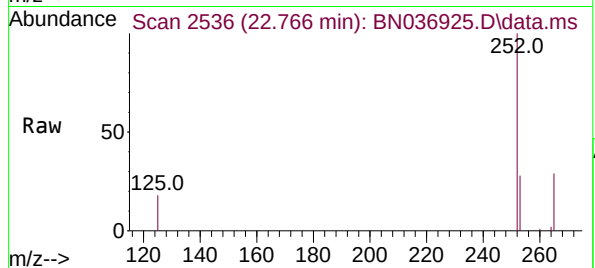
Tgt Ion:252 Resp: 5932

Ion Ratio Lower Upper

252 100

253 27.6 22.1 33.1

125 17.7 14.2 21.2



#38

Benzo(k)fluoranthene

Concen: 0.393 ng

RT: 22.807 min Scan# 2550

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

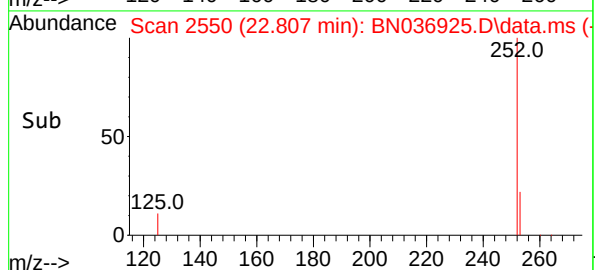
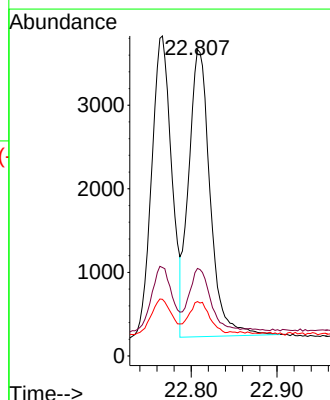
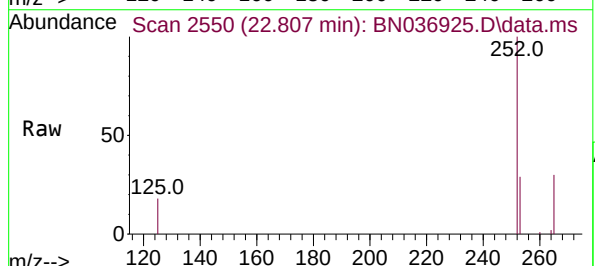
Tgt Ion:252 Resp: 5983

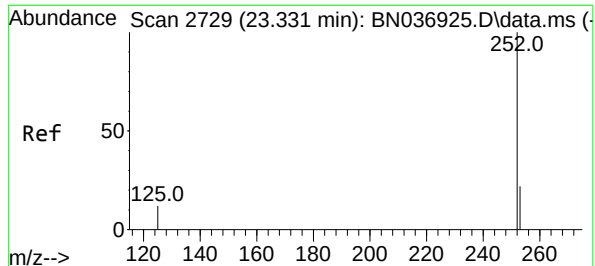
Ion Ratio Lower Upper

252 100

253 28.5 22.8 34.2

125 17.7 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.398 ng

RT: 23.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

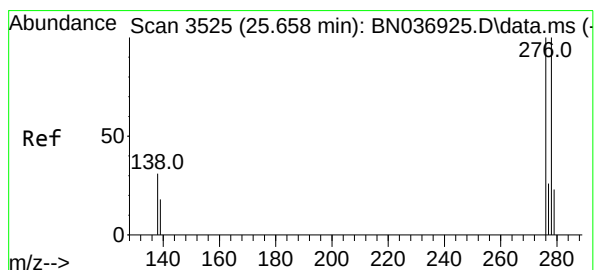
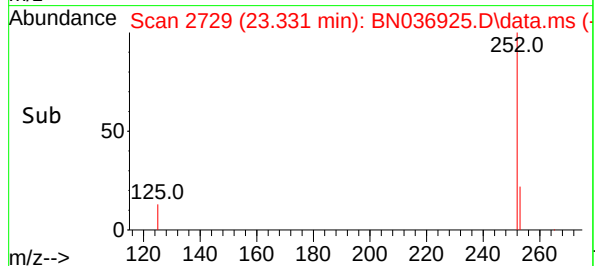
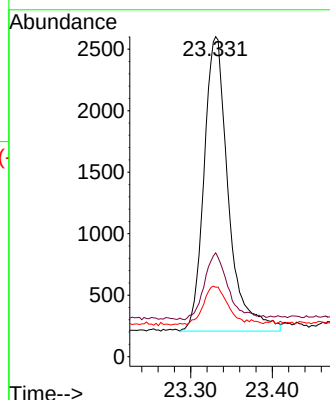
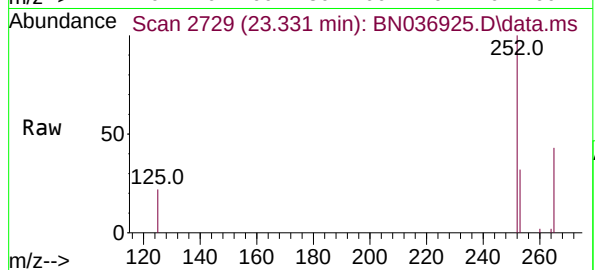
Tgt Ion:252 Resp: 4940

Ion Ratio Lower Upper

252 100

253 32.4 25.9 38.9

125 21.7 17.4 26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.419 ng

RT: 25.658 min Scan# 3525

Delta R.T. 0.000 min

Lab File: BN036925.D

Acq: 28 Apr 2025 12:47

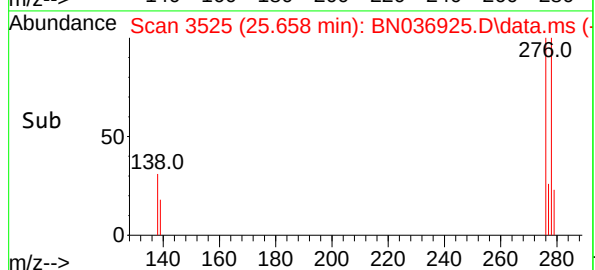
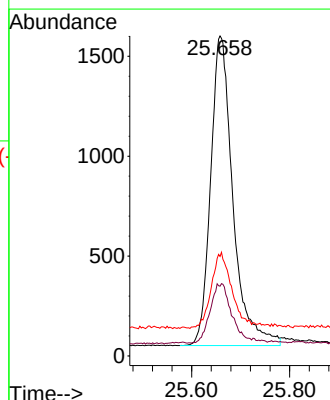
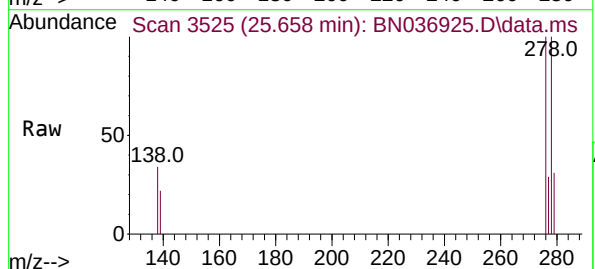
Tgt Ion:278 Resp: 4897

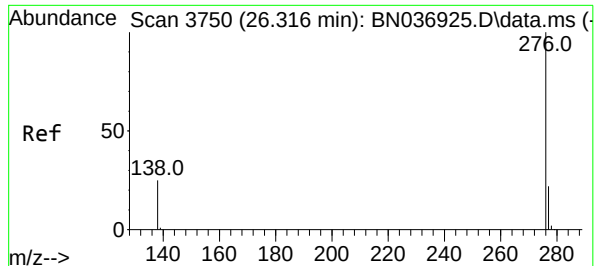
Ion Ratio Lower Upper

278 100

139 21.8 17.4 26.2

279 31.1 24.9 37.3





#41

Benzo(g,h,i)perylene

Concen: 0.420 ng

RT: 26.316 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN036925.D

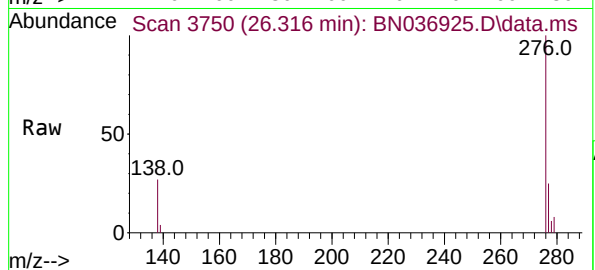
Acq: 28 Apr 2025 12:47

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



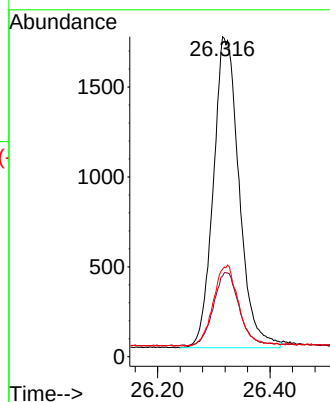
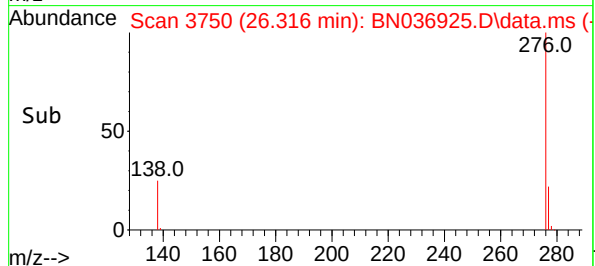
Tgt Ion:276 Resp: 5500

Ion Ratio Lower Upper

276 100

277 25.2 20.2 30.2

138 27.4 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036926.D
 Acq On : 28 Apr 2025 13:24
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Apr 28 15:13:14 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:11:09 2025
 Response via : Initial Calibration

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

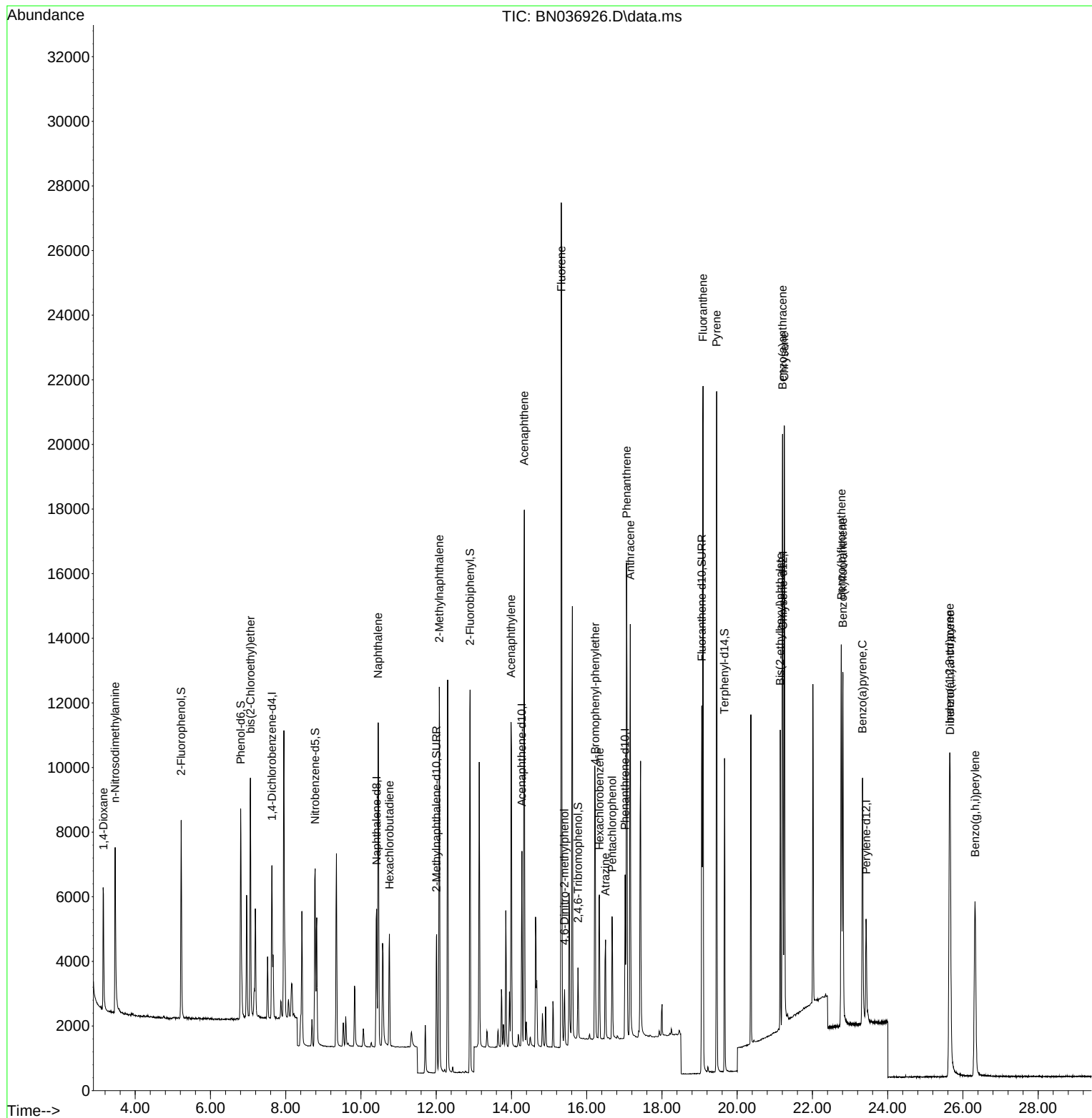
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2230	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	5489	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3040	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6101	0.400	ng	0.00
29) Chrysene-d12	21.215	240	4993	0.400	ng	0.00
35) Perylene-d12	23.427	264	4243	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	4217	0.733	ng	0.00
5) Phenol-d6	6.802	99	5133	0.732	ng	0.00
8) Nitrobenzene-d5	8.781	82	4432	0.777	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	5965	0.784	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	1061	0.796	ng	0.00
15) 2-Fluorobiphenyl	12.899	172	10275	0.699	ng	0.00
27) Fluoranthene-d10	19.059	212	12399	0.794	ng	0.00
31) Terphenyl-d14	19.663	244	8916	0.750	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.155	88	2257	0.801	ng	97
3) n-Nitrosodimethylamine	3.465	42	4269	0.785	ng	# 97
6) bis(2-Chloroethyl)ether	7.062	93	5078	0.780	ng	99
9) Naphthalene	10.458	128	12423	0.778	ng	99
10) Hexachlorobutadiene	10.757	225	2738	0.786	ng	# 98
12) 2-Methylnaphthalene	12.082	142	8066	0.789	ng	100
16) Acenaphthylene	13.989	152	11455	0.778	ng	100
17) Acenaphthene	14.341	154	7590	0.780	ng	99
18) Fluorene	15.325	166	10080	0.795	ng	98
20) 4,6-Dinitro-2-methylph...	15.410	198	1166	0.763	ng	# 65
21) 4-Bromophenyl-phenylether	16.227	248	3169	0.780	ng	94
22) Hexachlorobenzene	16.338	284	3420	0.762	ng	99
23) Atrazine	16.500	200	2644	0.825	ng	94
24) Pentachlorophenol	16.673	266	1767	0.758	ng	99
25) Phenanthrene	17.058	178	15621	0.778	ng	100
26) Anthracene	17.157	178	13888	0.774	ng	100
28) Fluoranthene	19.091	202	17952	0.808	ng	99
30) Pyrene	19.453	202	17990	0.741	ng	100
32) Benzo(a)anthracene	21.206	228	14201	0.780	ng	99
33) Chrysene	21.251	228	15802	0.792	ng	99
34) Bis(2-ethylhexyl)phtha...	21.144	149	7831	0.753	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.643	276	12758	0.734	ng	100
37) Benzo(b)fluoranthene	22.766	252	13818	0.786	ng	93
38) Benzo(k)fluoranthene	22.807	252	13927	0.783	ng	93
39) Benzo(a)pyrene	23.330	252	11160	0.770	ng	# 89
40) Dibenzo(a,h)anthracene	25.661	278	9982	0.730	ng	95
41) Benzo(g,h,i)perylene	26.321	276	11072	0.724	ng	99

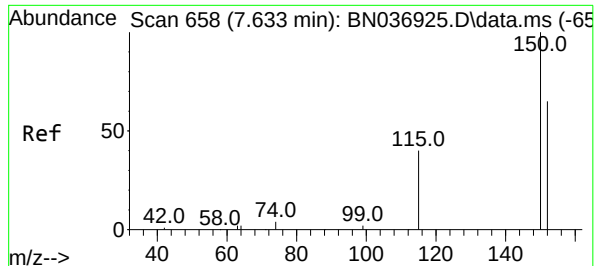
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036926.D
Acq On : 28 Apr 2025 13:24
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

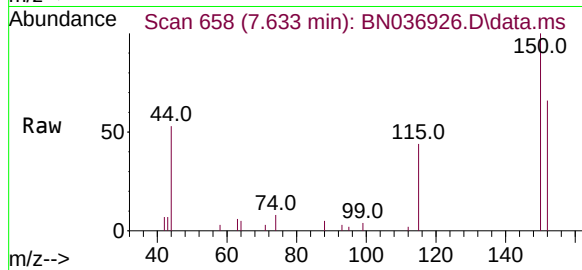
Quant Time: Apr 28 15:13:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration



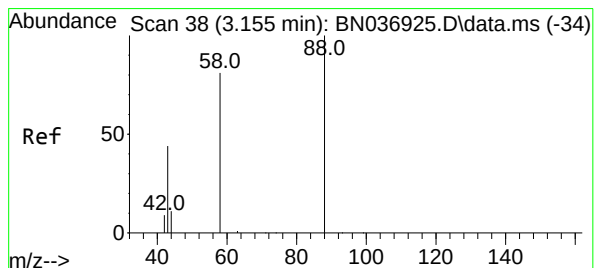
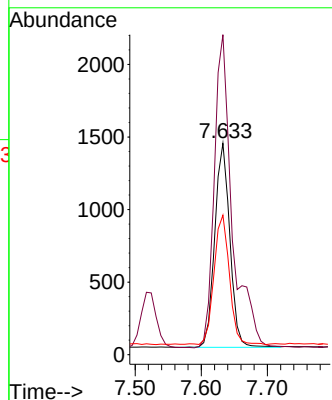
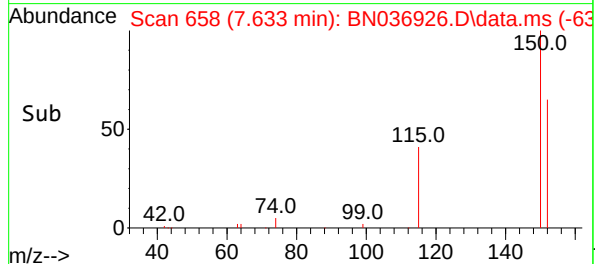


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

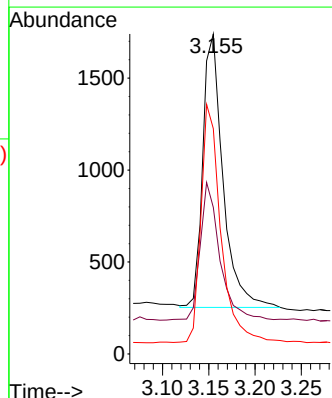
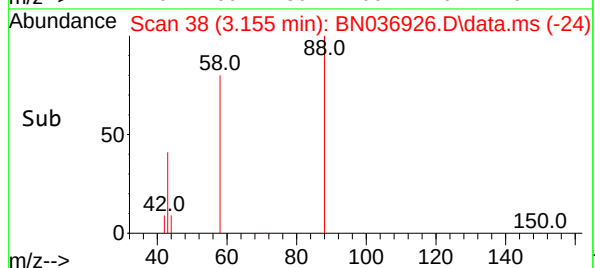
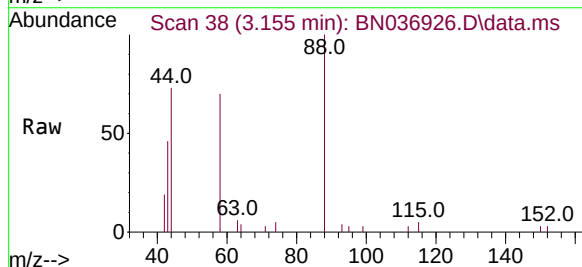


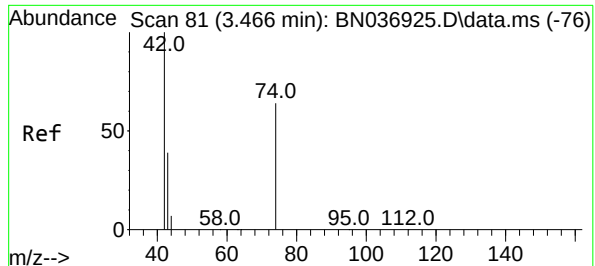
Tgt Ion:152 Resp: 2230
Ion Ratio Lower Upper
152 100
150 151.3 121.1 181.7
115 66.0 51.8 77.6



#2
1,4-Dioxane
Concen: 0.801 ng
RT: 3.155 min Scan# 38
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion: 88 Resp: 2257
Ion Ratio Lower Upper
88 100
43 49.0 37.9 56.9
58 85.8 65.8 98.6

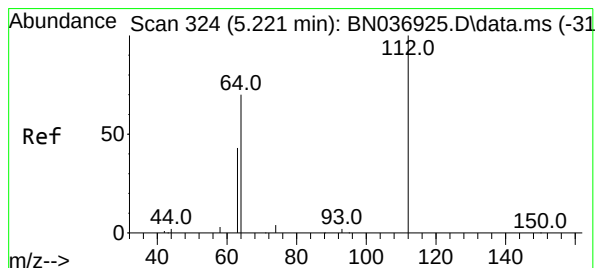
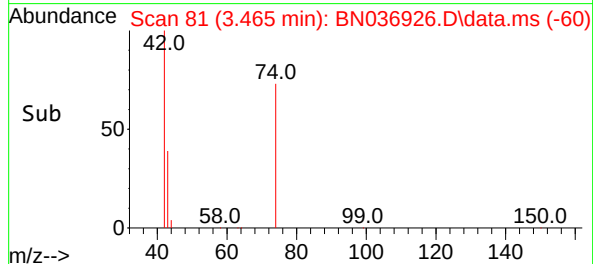
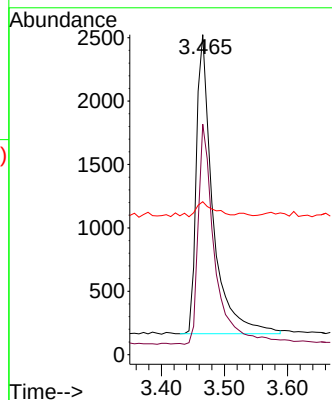
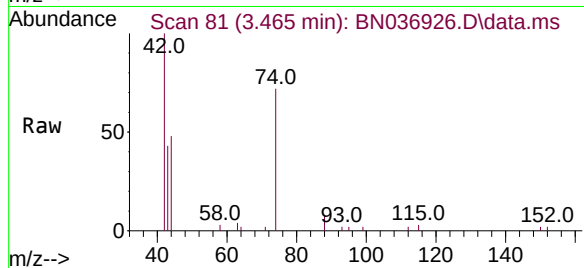




#3
n-Nitrosodimethylamine
Concen: 0.785 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

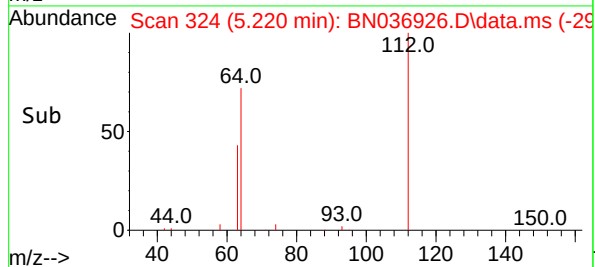
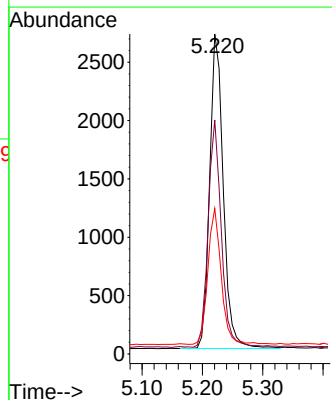
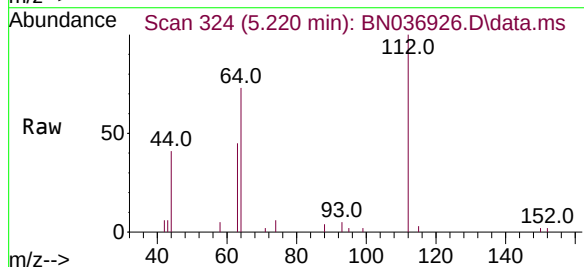
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

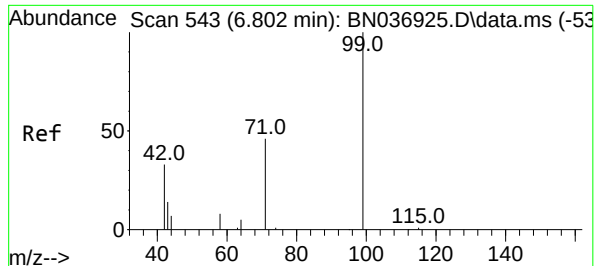
Tgt Ion: 42 Resp: 4269
Ion Ratio Lower Upper
42 100
74 72.8 59.9 89.9
44 5.2 7.5 11.3#



#4
2-Fluorophenol
Concen: 0.733 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion: 112 Resp: 4217
Ion Ratio Lower Upper
112 100
64 69.9 55.7 83.5
63 42.7 33.9 50.9





#5

Phenol-d6

Concen: 0.732 ng

RT: 6.802 min Scan# 543

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

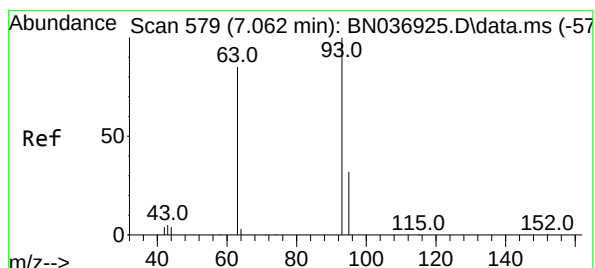
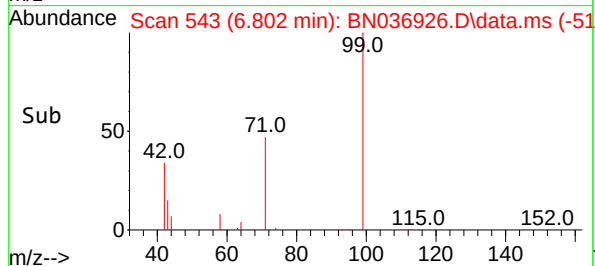
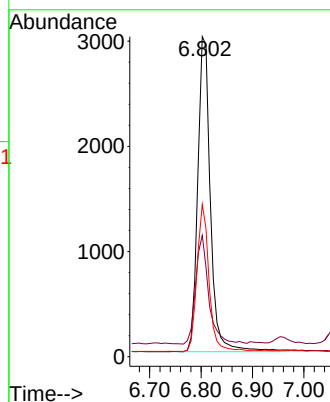
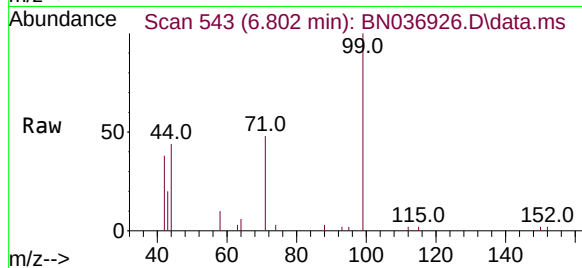
Tgt Ion: 99 Resp: 5133

Ion	Ratio	Lower	Upper

99	100		

42	35.2	29.6	44.4

71	44.7	36.0	54.0



#6

bis(2-Chloroethyl)ether

Concen: 0.780 ng

RT: 7.062 min Scan# 579

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

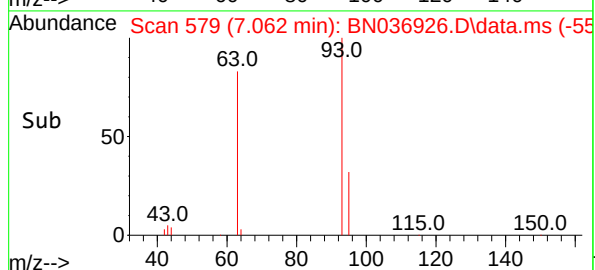
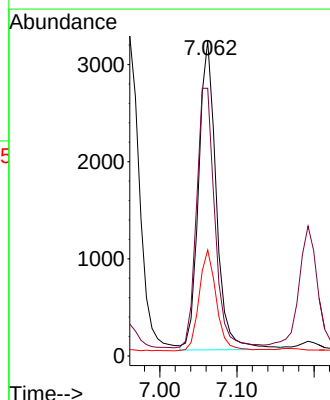
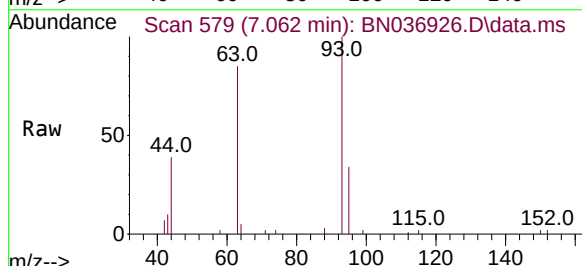
Tgt Ion: 93 Resp: 5078

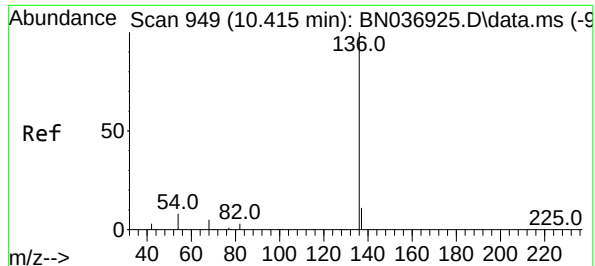
Ion	Ratio	Lower	Upper

93	100		

63	87.5	69.0	103.6

95	31.9	25.4	38.0

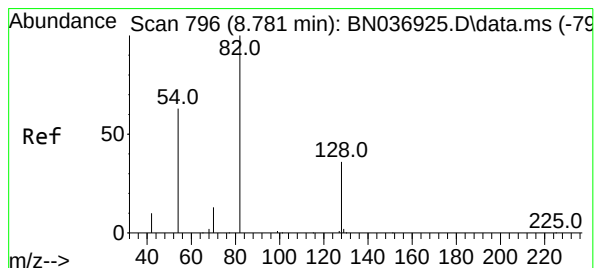
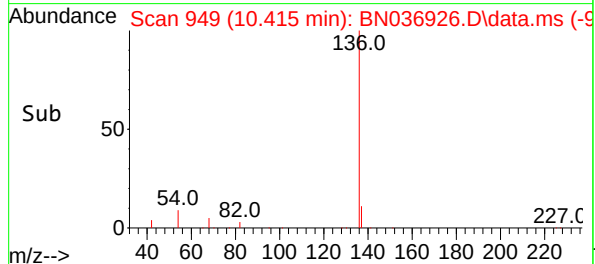
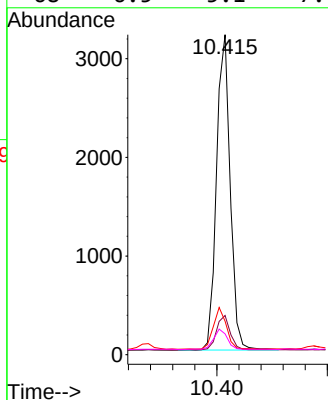
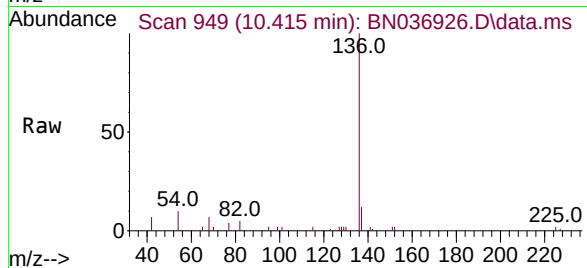




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

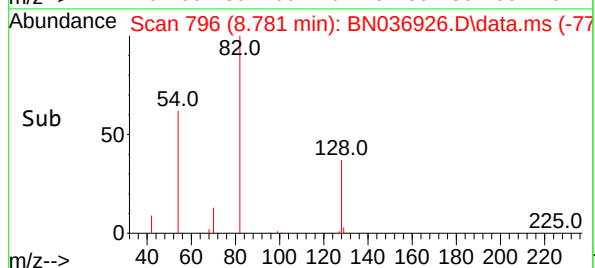
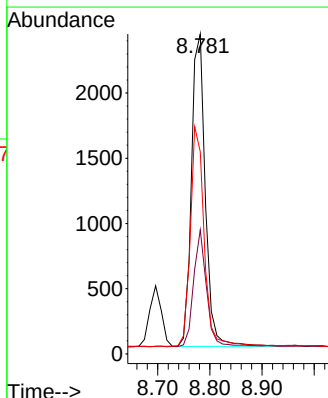
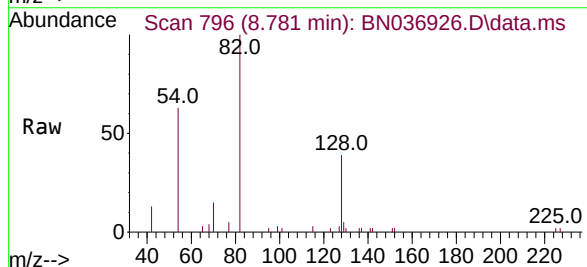
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

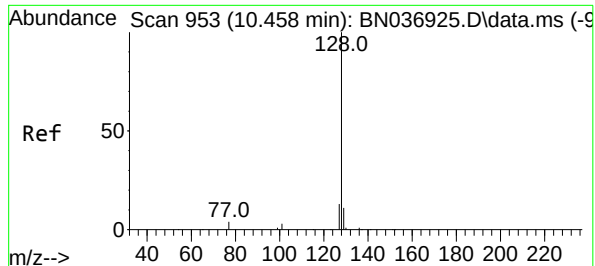
Tgt Ion:	136	Resp:	5489
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.7	14.5
54	10.5	8.0	12.0
68	6.5	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.777 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:	82	Resp:	4432
Ion	Ratio	Lower	Upper
82	100		
128	38.8	30.7	46.1
54	63.2	52.1	78.1

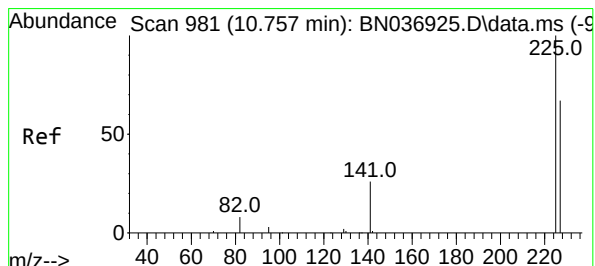
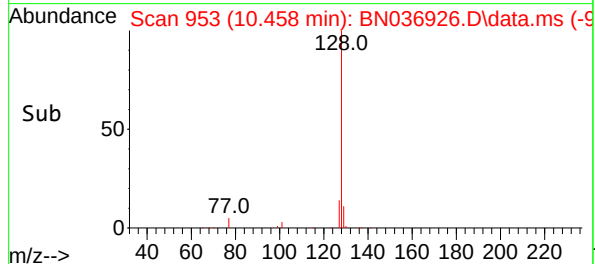
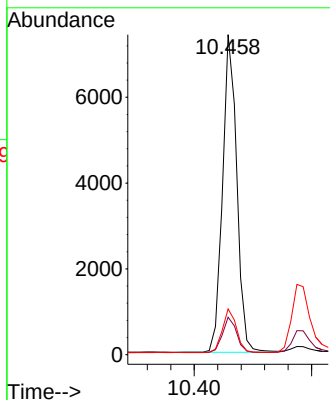
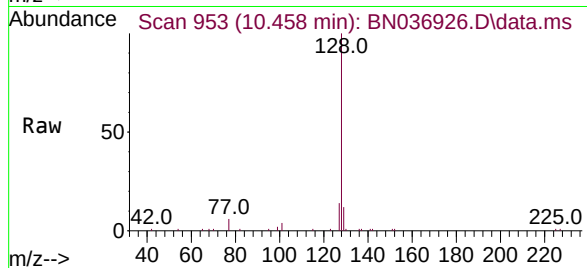




#9
Naphthalene
Concen: 0.778 ng
RT: 10.458 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

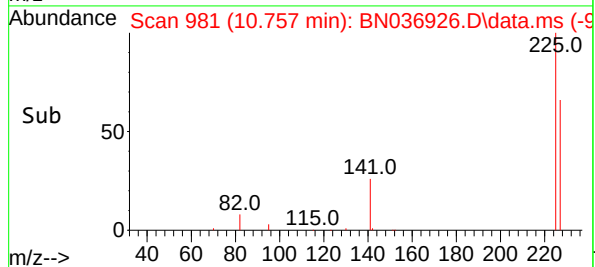
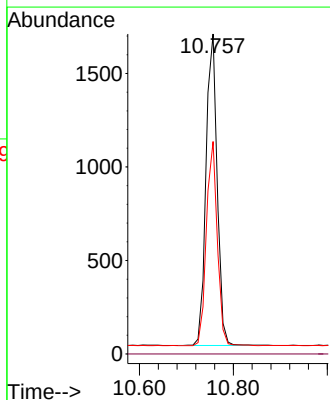
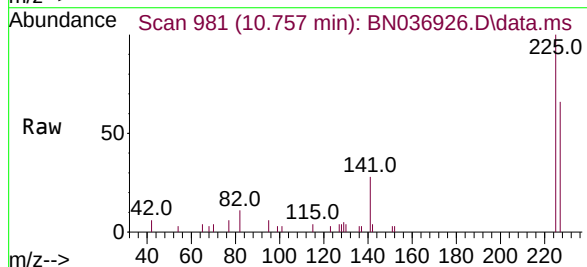
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

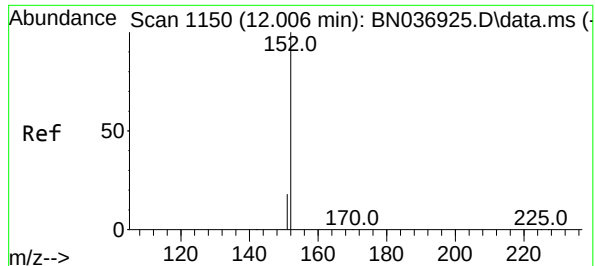
Tgt Ion	128	129	127
Resp:	12423		
Ion Ratio	100	11.7	14.3
Lower		9.8	11.4
Upper		14.6	17.2



#10
Hexachlorobutadiene
Concen: 0.786 ng
RT: 10.757 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion	225	223	227
Resp:	2738		
Ion Ratio	100	0.0	64.0
Lower		0.0	52.2
Upper		0.0	78.4

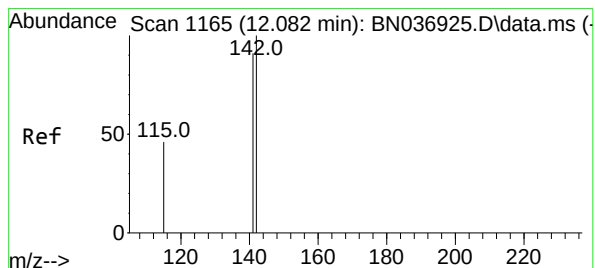
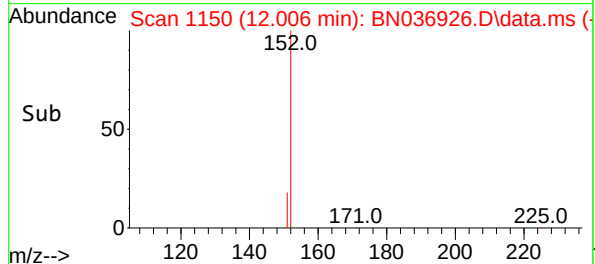
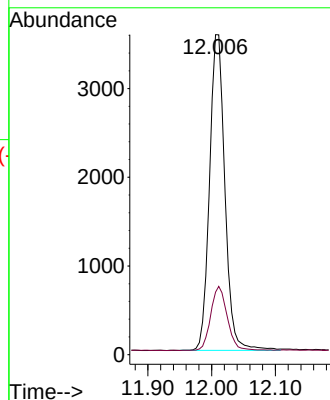
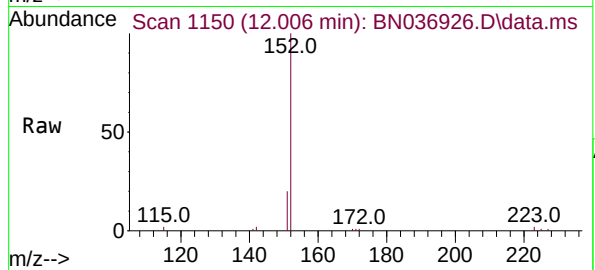




#11
2-Methylnaphthalene-d10
Concen: 0.784 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

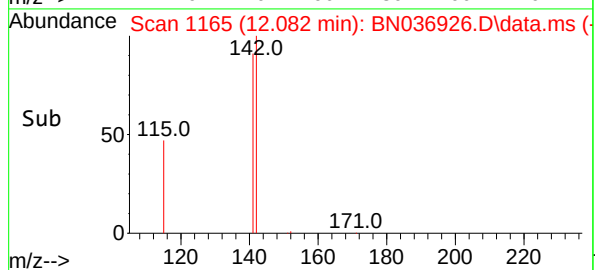
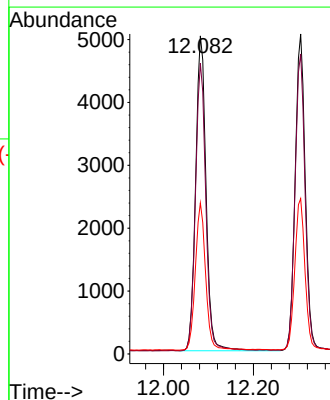
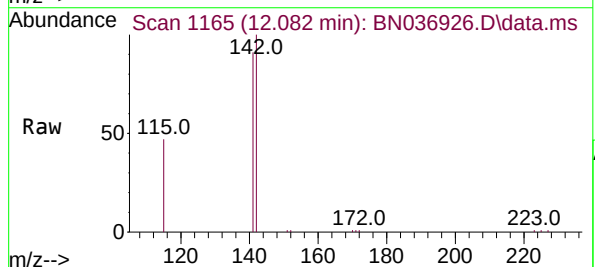
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

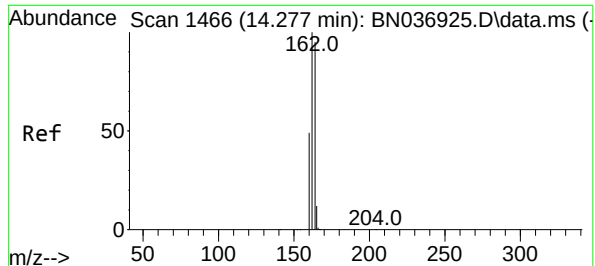
Tgt Ion:152 Resp: 5965
Ion Ratio Lower Upper
152 100
151 21.8 16.9 25.3



#12
2-Methylnaphthalene
Concen: 0.789 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:142 Resp: 8066
Ion Ratio Lower Upper
142 100
141 91.4 72.8 109.2
115 47.5 38.2 57.4

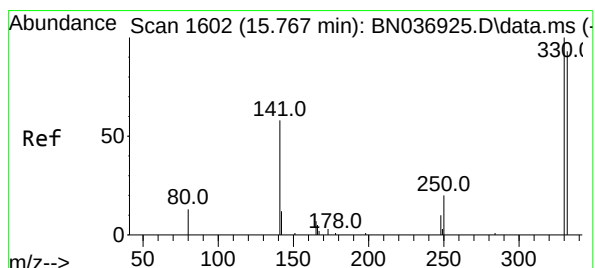
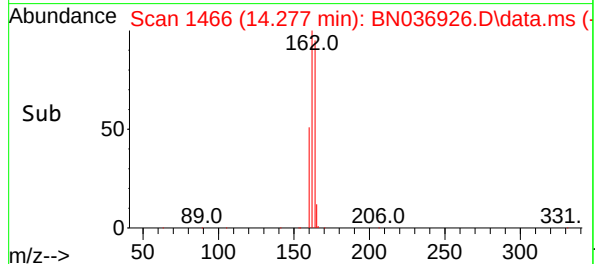
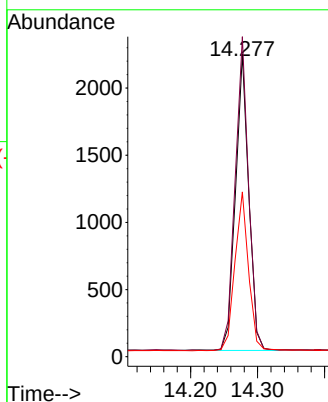
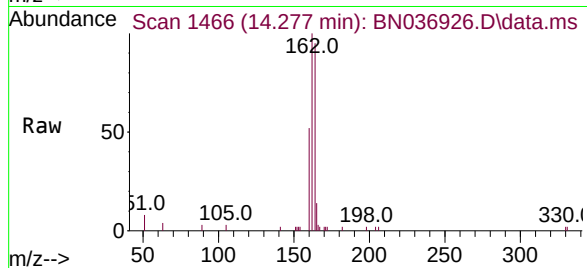




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

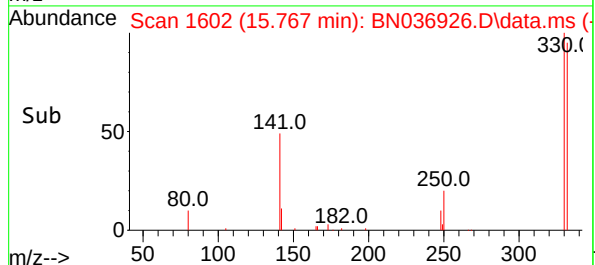
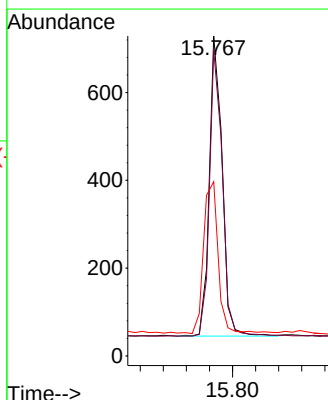
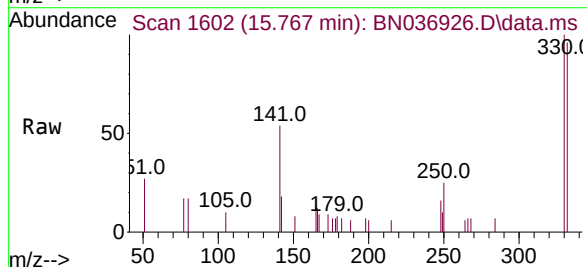
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

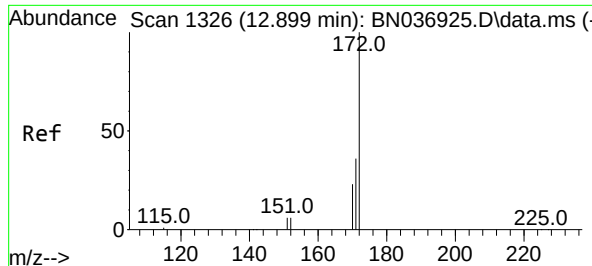
Tgt Ion:164 Resp: 3040
Ion Ratio Lower Upper
164 100
162 105.7 83.8 125.8
160 54.5 42.0 63.0



#14
2,4,6-Tribromophenol
Concen: 0.796 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:330 Resp: 1061
Ion Ratio Lower Upper
330 100
332 95.2 76.3 114.5
141 56.7 45.4 68.2

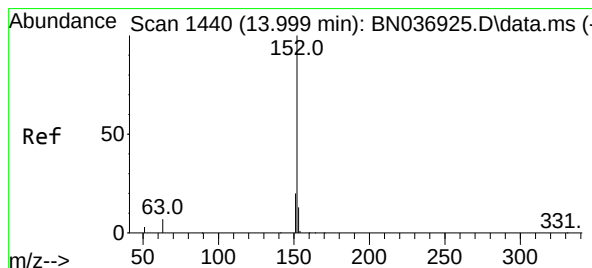
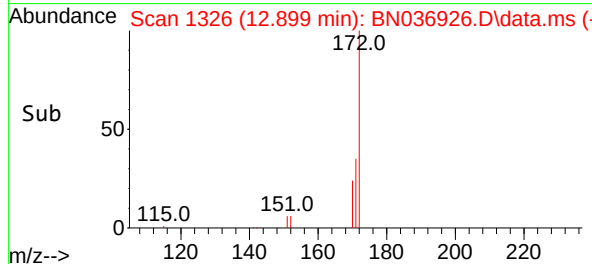
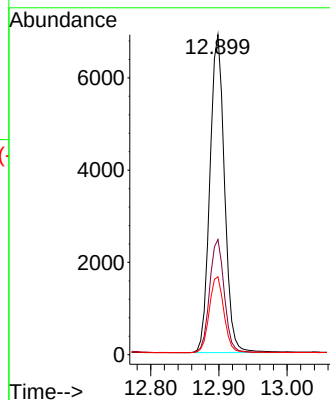
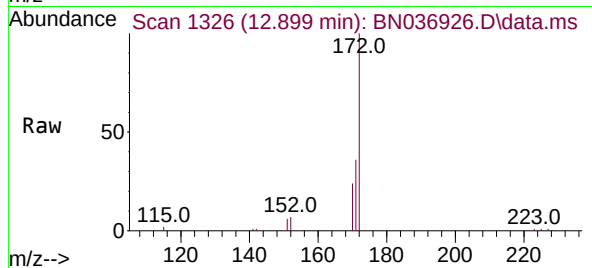




#15
2-Fluorobiphenyl
Concen: 0.699 ng
RT: 12.899 min Scan# 1438
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

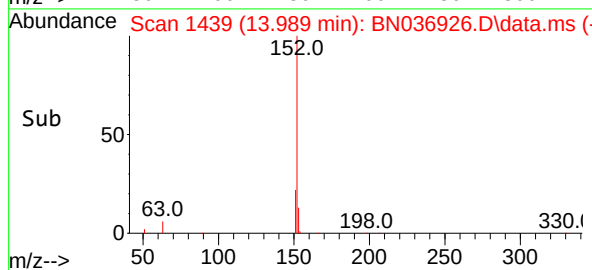
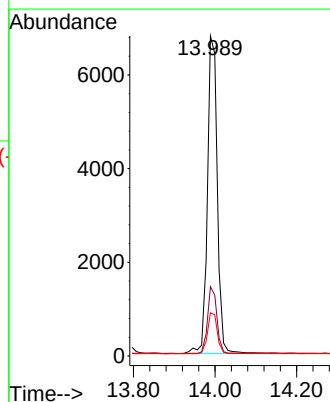
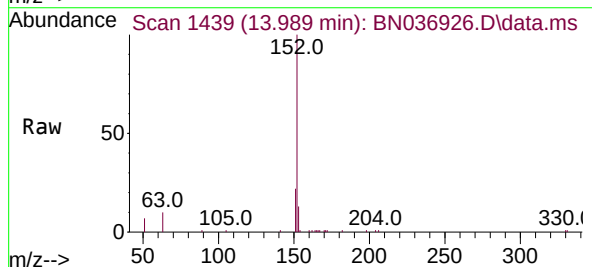
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

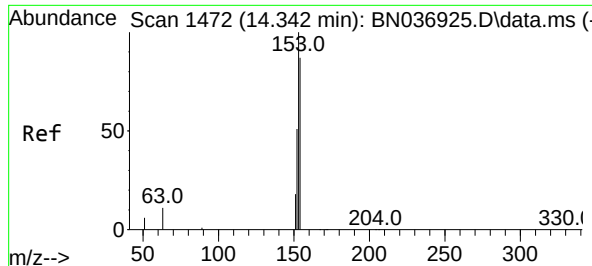
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.4	44.0
170	24.3	19.4	29.0



#16
Acenaphthylene
Concen: 0.778 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0
153	12.9	10.2	15.2

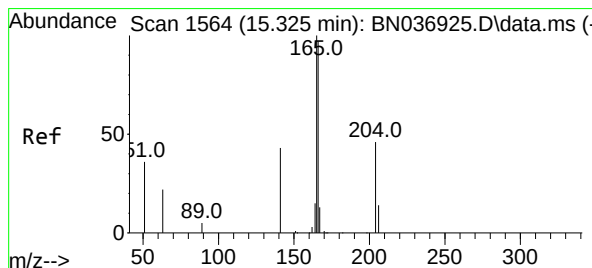
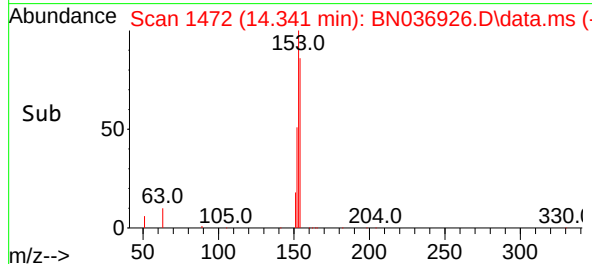
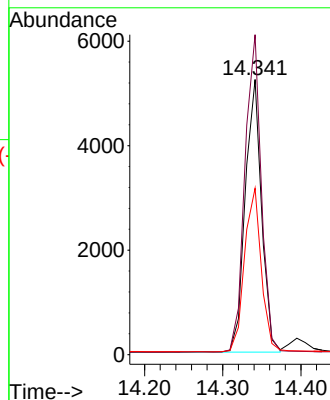
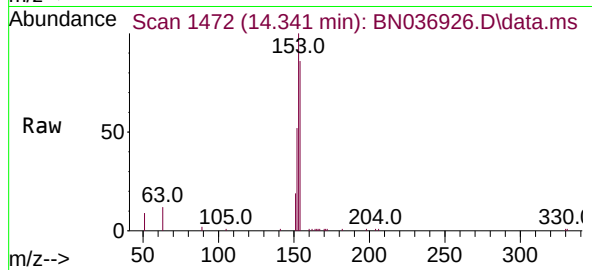




#17
Acenaphthene
Concen: 0.780 ng
RT: 14.341 min Scan# 1472
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

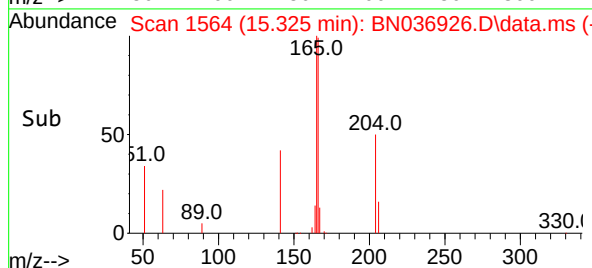
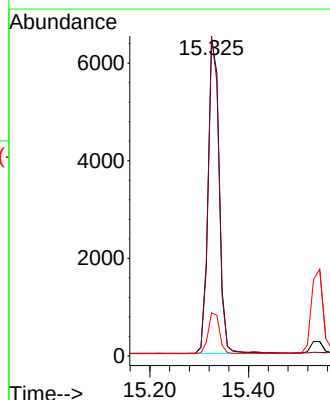
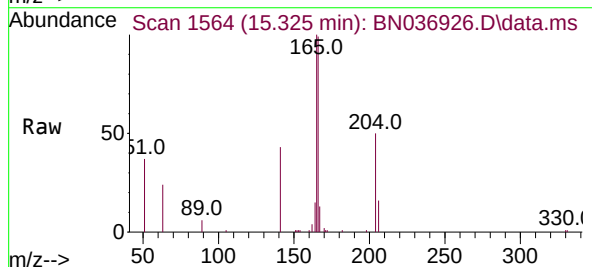
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

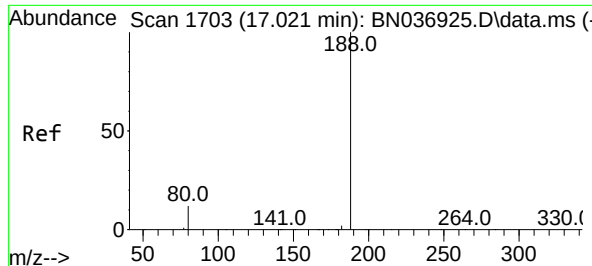
Tgt Ion:154 Resp: 7590
Ion Ratio Lower Upper
154 100
153 117.5 93.4 140.2
152 62.1 49.5 74.3



#18
Fluorene
Concen: 0.795 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:166 Resp: 10080
Ion Ratio Lower Upper
166 100
165 99.0 80.8 121.2
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

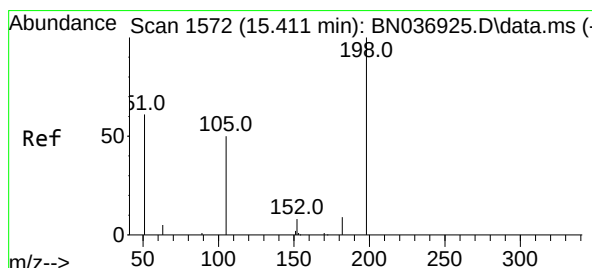
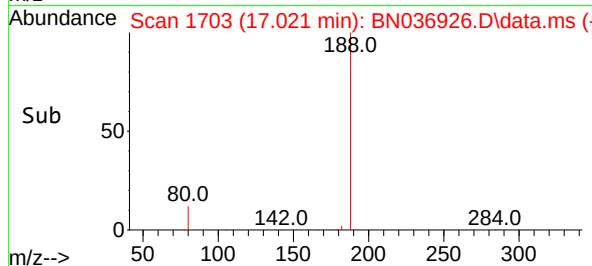
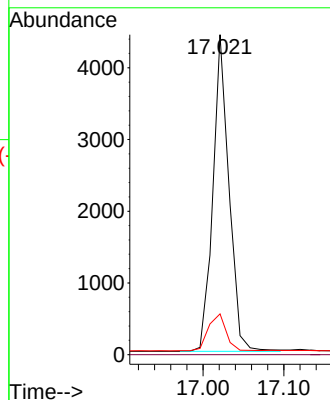
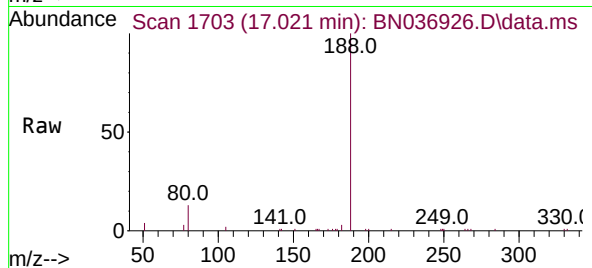
Tgt Ion:188 Resp: 6101

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.8 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 0.763 ng

RT: 15.410 min Scan# 1572

Delta R.T. -0.001 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

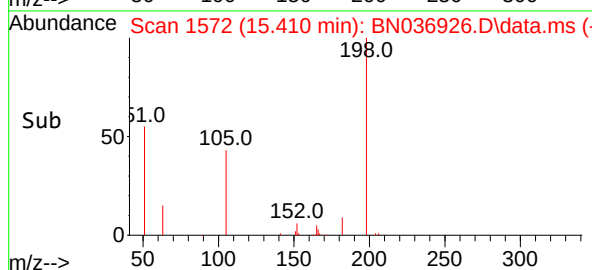
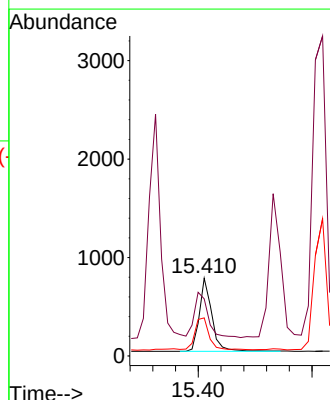
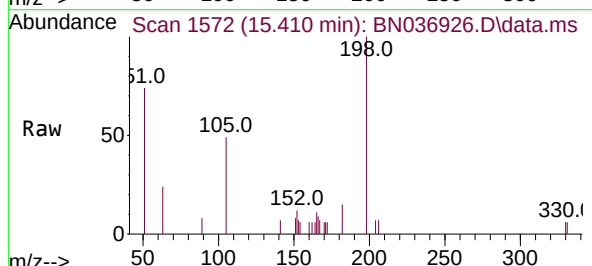
Tgt Ion:198 Resp: 1166

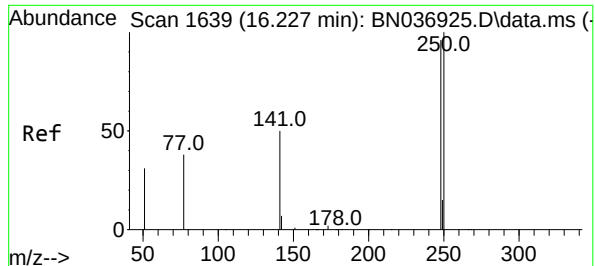
Ion Ratio Lower Upper

198 100

51 73.5 97.9 146.9#

105 48.9 50.0 75.0#

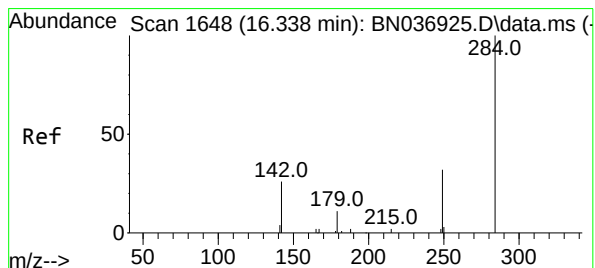
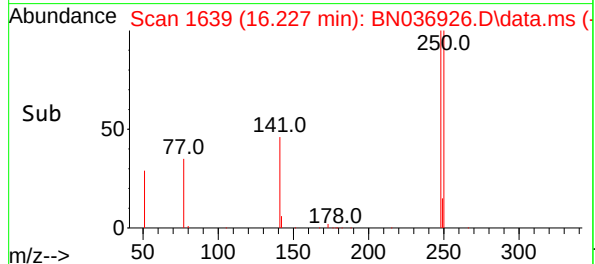
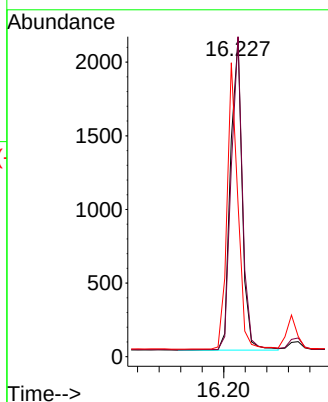
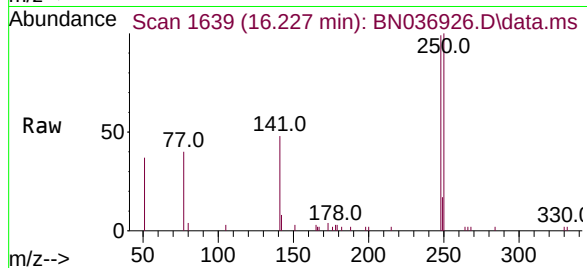




#21
4-Bromophenyl-phenylether
Concen: 0.780 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

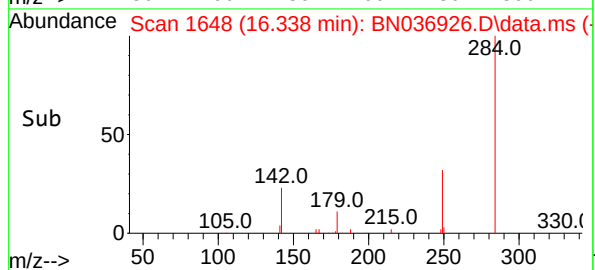
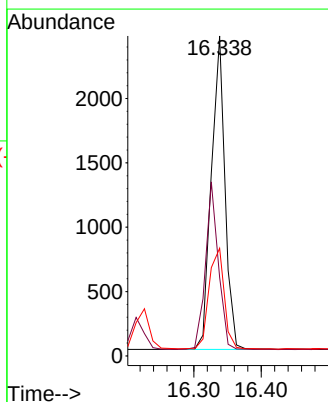
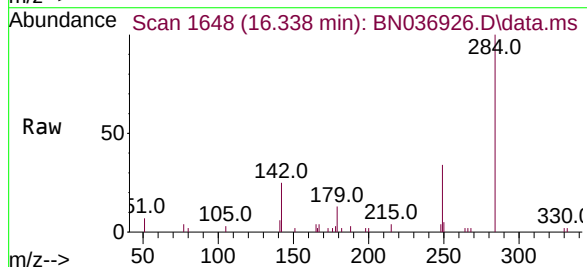
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

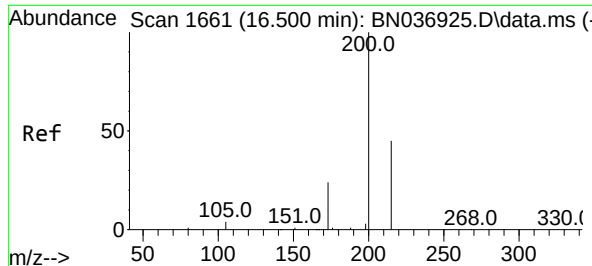
Tgt Ion	Ratio	Lower	Upper
248	100		
250	100.6	83.7	125.5
141	48.1	43.8	65.8



#22
Hexachlorobenzene
Concen: 0.762 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion	Ratio	Lower	Upper
284	100		
142	50.9	40.0	60.0
249	36.1	28.2	42.2

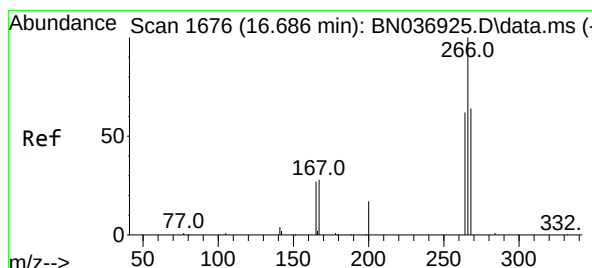
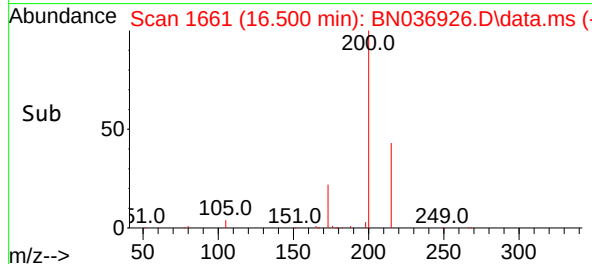
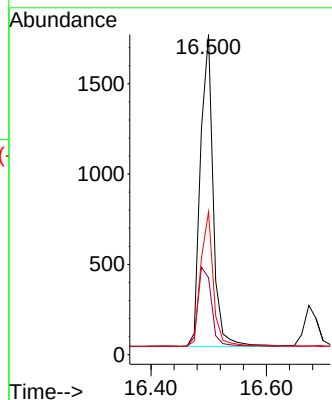
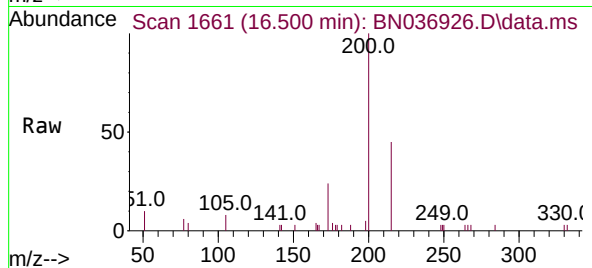




#23
Atrazine
Concen: 0.825 ng
RT: 16.500 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

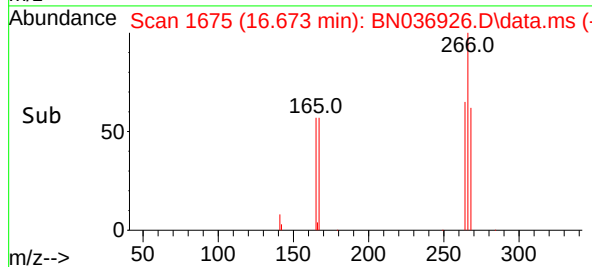
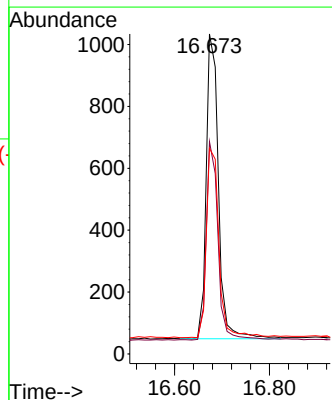
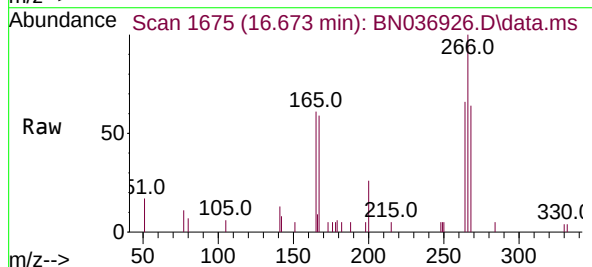
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

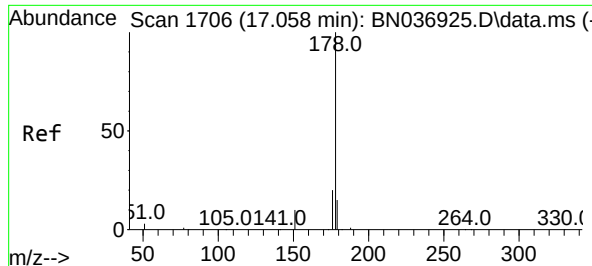
Tgt Ion	200	Resp:	2644
Ion Ratio	Lower	Upper	
200	100		
173	24.0	22.4	33.6
215	44.6	38.6	57.8



#24
Pentachlorophenol
Concen: 0.758 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.013 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion	266	Resp:	1767
Ion Ratio	Lower	Upper	
266	100		
264	62.5	49.9	74.9
268	64.1	52.2	78.4

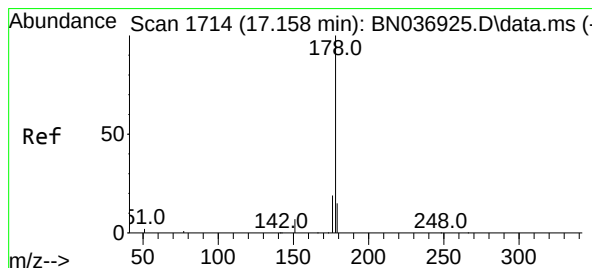
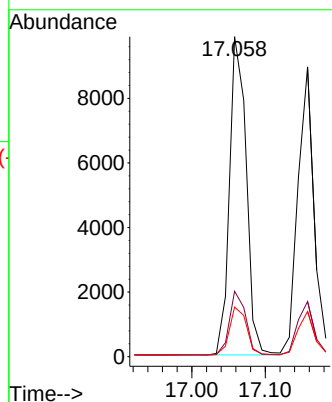
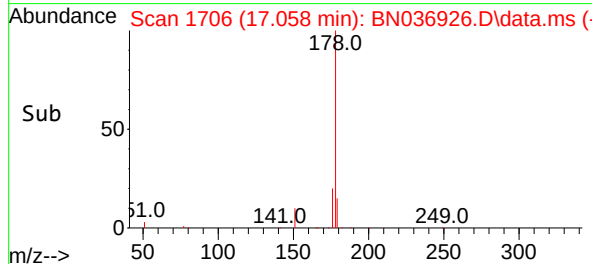
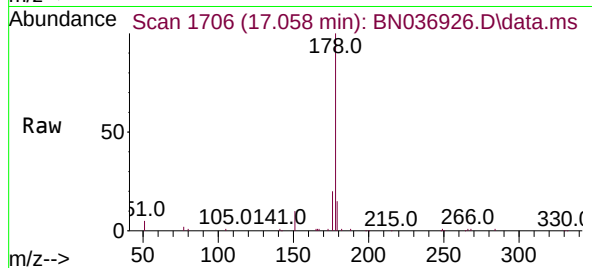




#25
Phenanthrene
Concen: 0.778 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

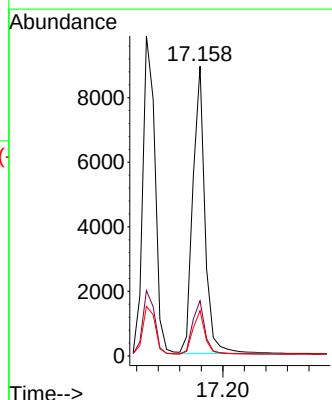
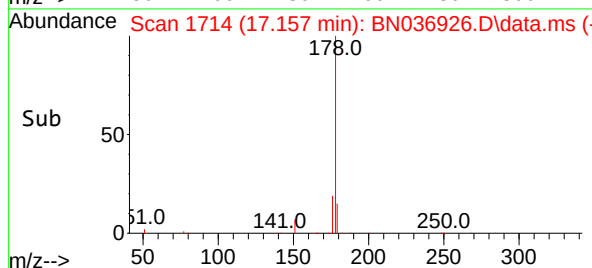
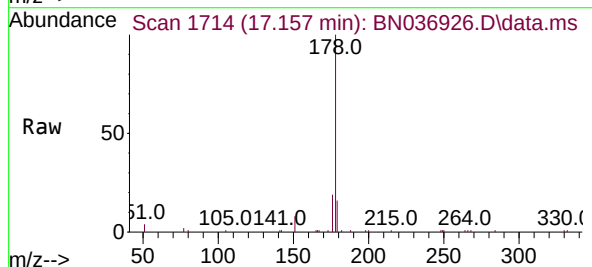
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

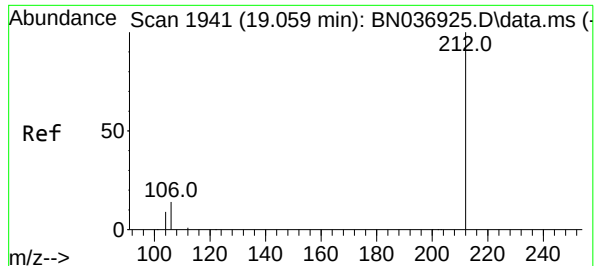
Tgt Ion:178 Resp: 15621
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.2 12.4 18.6



#26
Anthracene
Concen: 0.774 ng
RT: 17.157 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:178 Resp: 13888
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.1 12.1 18.1





#27

Fluoranthene-d10

Concen: 0.794 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

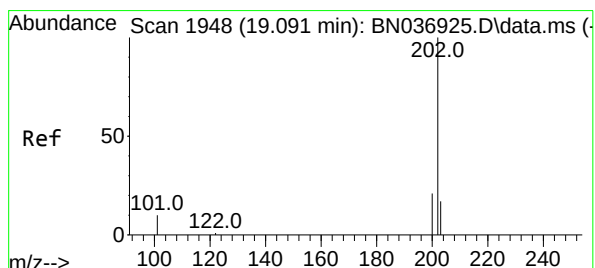
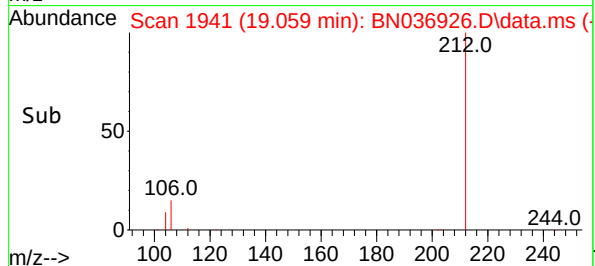
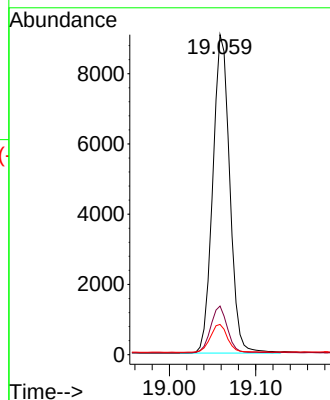
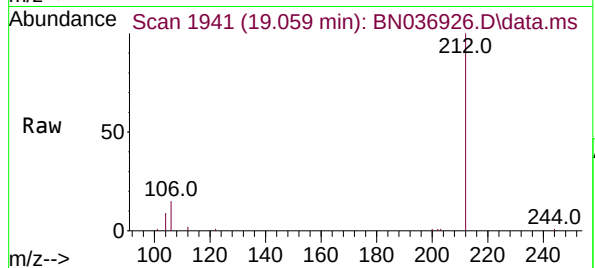
Tgt Ion:212 Resp: 12399

Ion Ratio Lower Upper

212 100

106 14.4 11.6 17.4

104 9.0 7.0 10.4



#28

Fluoranthene

Concen: 0.808 ng

RT: 19.091 min Scan# 1948

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

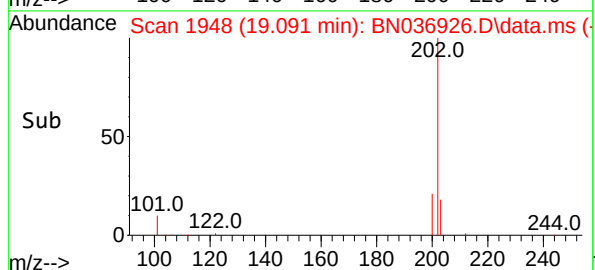
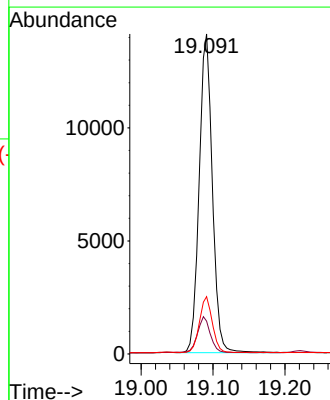
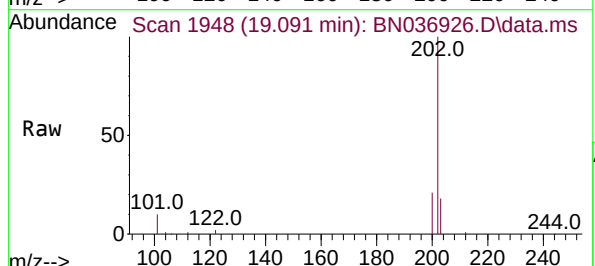
Tgt Ion:202 Resp: 17952

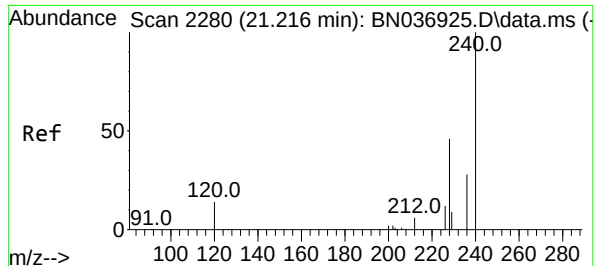
Ion Ratio Lower Upper

202 100

101 11.1 8.5 12.7

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

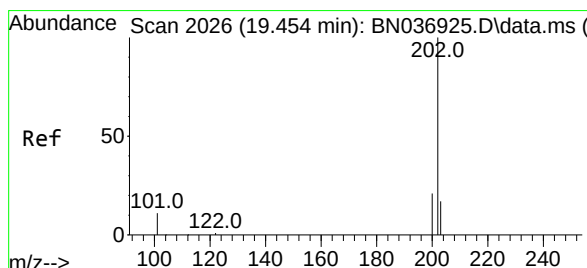
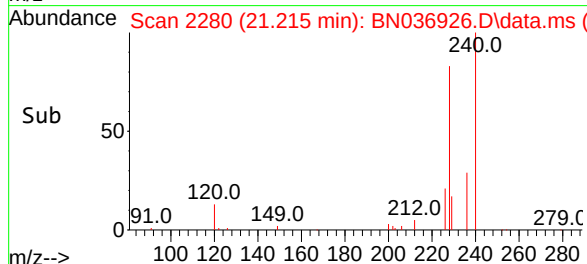
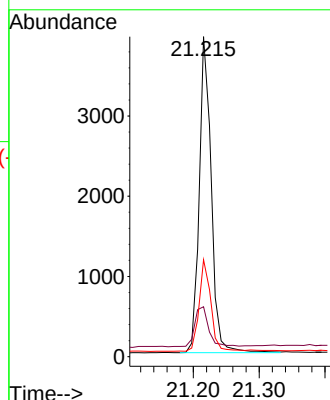
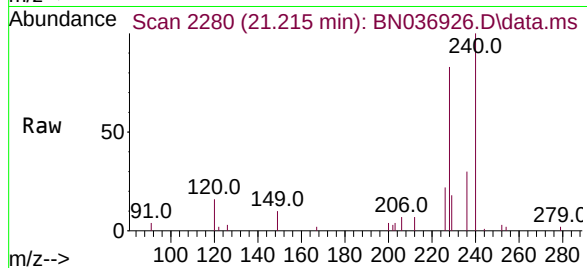
Tgt Ion:240 Resp: 4993

Ion Ratio Lower Upper

240 100

120 15.6 14.1 21.1

236 30.3 23.8 35.8



#30

Pyrene

Concen: 0.741 ng

RT: 19.453 min Scan# 2026

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

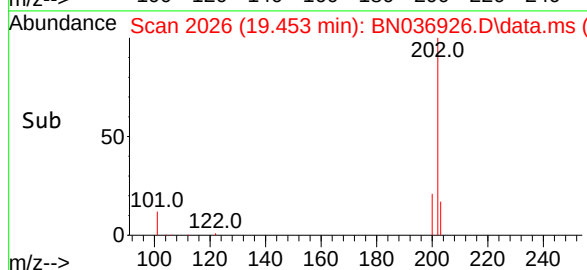
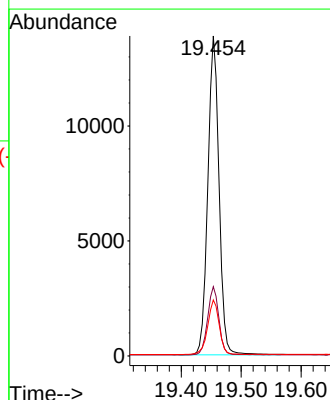
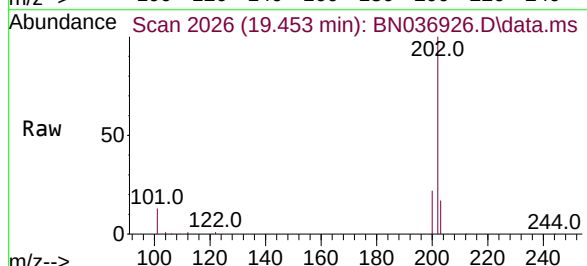
Tgt Ion:202 Resp: 17990

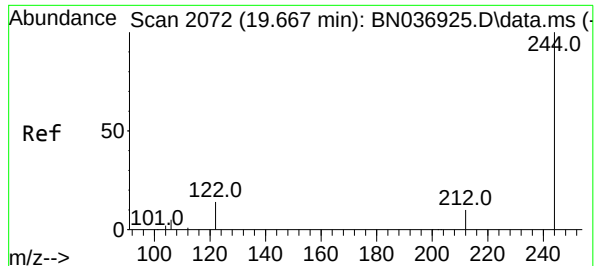
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

203 17.7 14.0 21.0

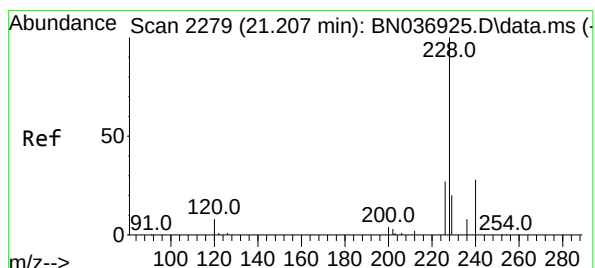
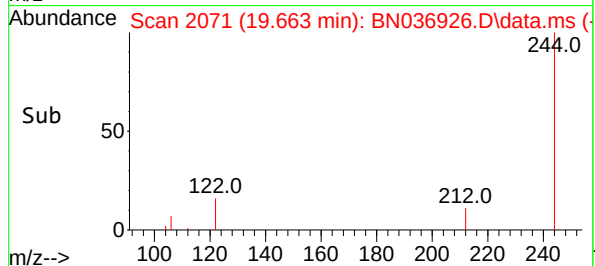
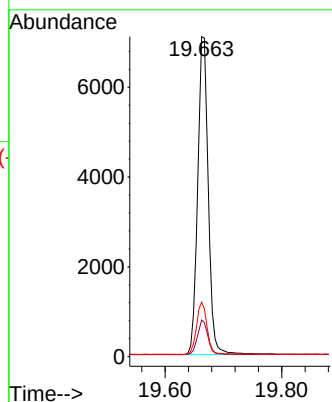
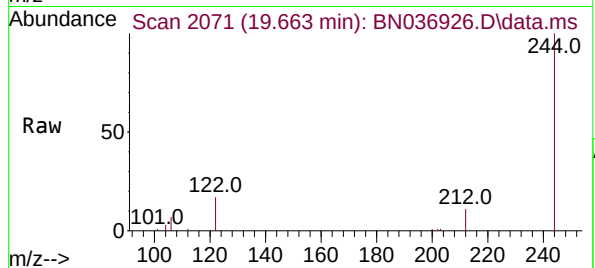




#31
Terphenyl-d14
Concen: 0.750 ng
RT: 19.663 min Scan# 2072
Delta R.T. -0.005 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

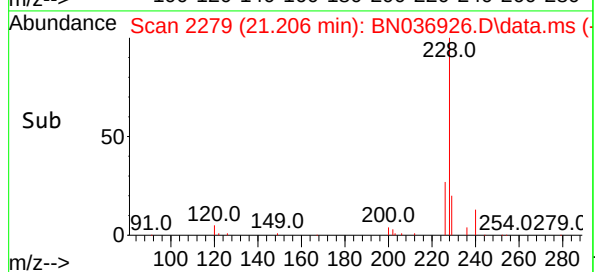
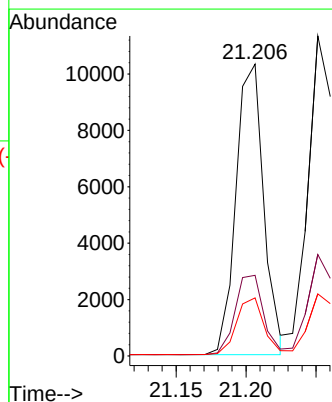
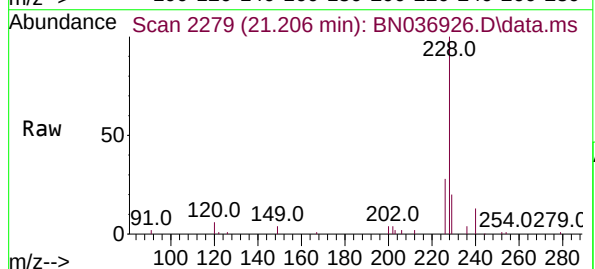
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

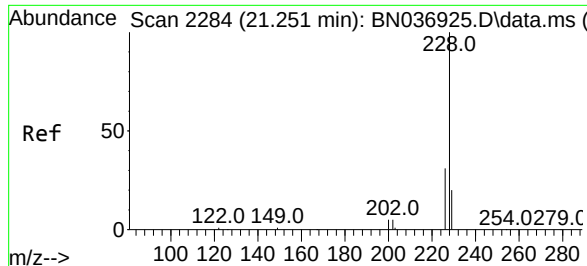
Tgt Ion:244 Resp: 8916
Ion Ratio Lower Upper
244 100
212 11.4 9.6 14.4
122 17.0 12.7 19.1



#32
Benzo(a)anthracene
Concen: 0.780 ng
RT: 21.206 min Scan# 2279
Delta R.T. -0.000 min
Lab File: BN036926.D
Acq: 28 Apr 2025 13:24

Tgt Ion:228 Resp: 14201
Ion Ratio Lower Upper
228 100
226 27.7 22.2 33.4
229 19.9 16.4 24.6





#33

Chrysene

Concen: 0.792 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

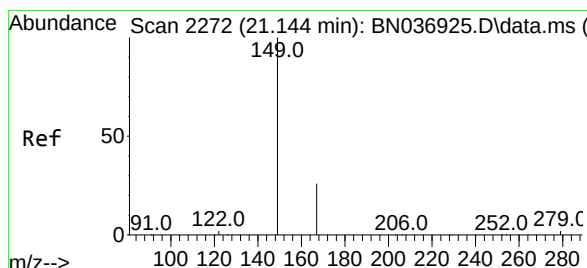
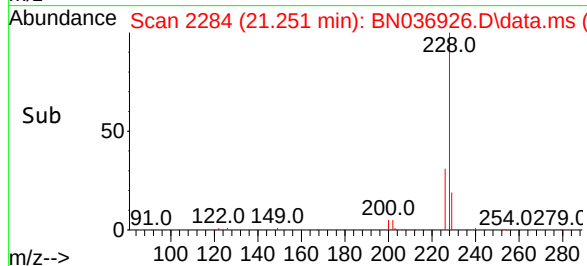
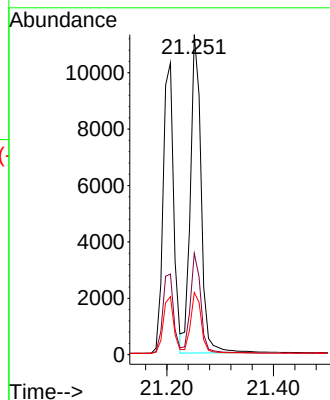
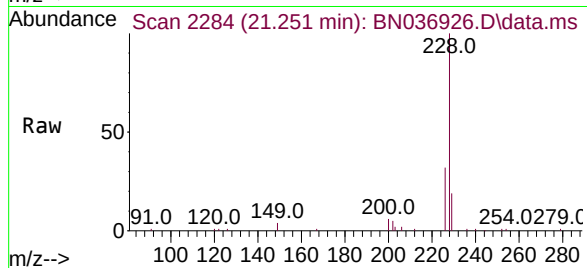
Tgt Ion:228 Resp: 15802

Ion Ratio Lower Upper

228 100

226 31.7 25.5 38.3

229 19.4 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.753 ng

RT: 21.144 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

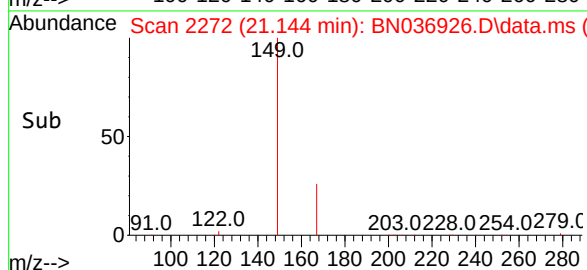
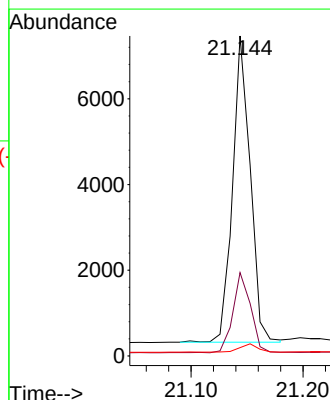
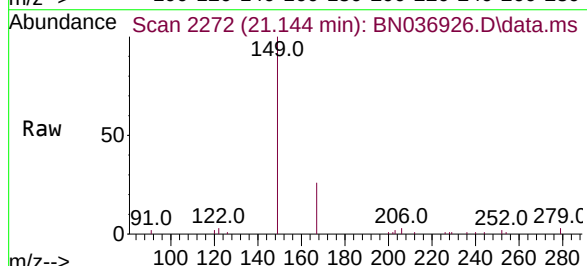
Tgt Ion:149 Resp: 7831

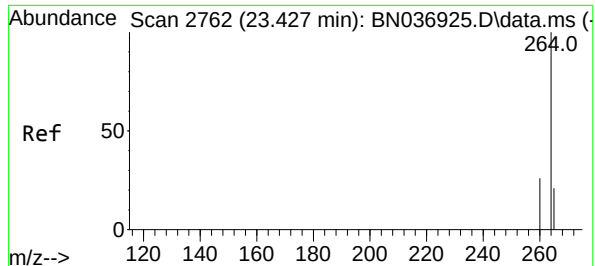
Ion Ratio Lower Upper

149 100

167 26.1 21.0 31.6

279 2.7 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.427 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

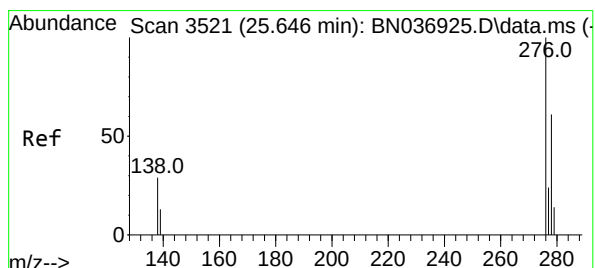
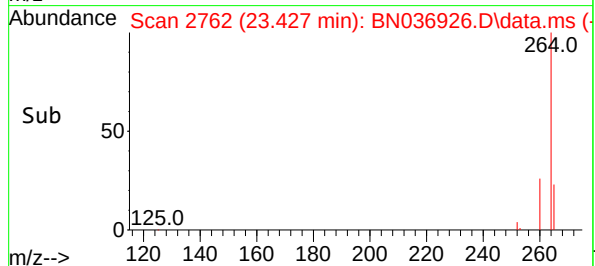
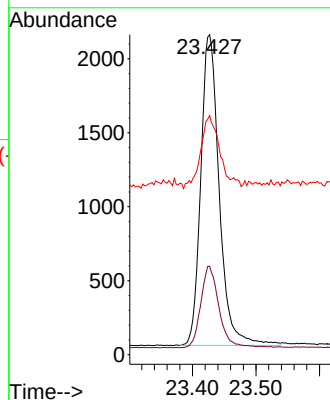
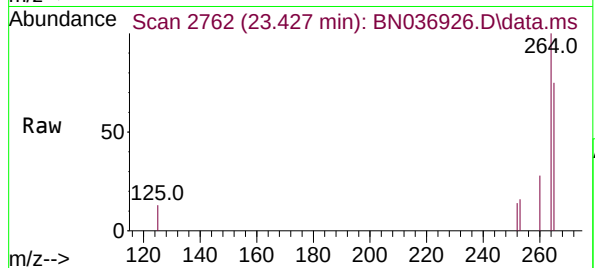
Tgt Ion:264 Resp: 4243

Ion Ratio Lower Upper

264 100

260 27.6 22.2 33.2

265 74.8 65.8 98.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.734 ng

RT: 25.643 min Scan# 3520

Delta R.T. -0.003 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

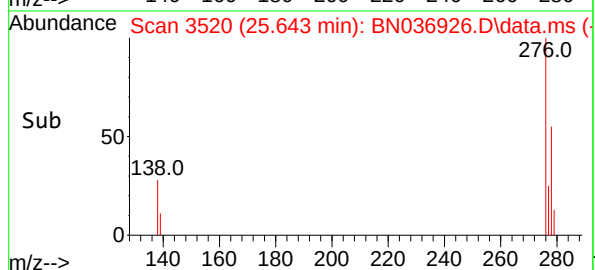
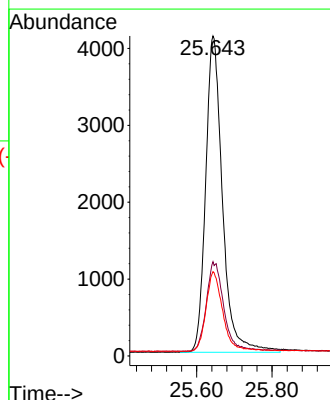
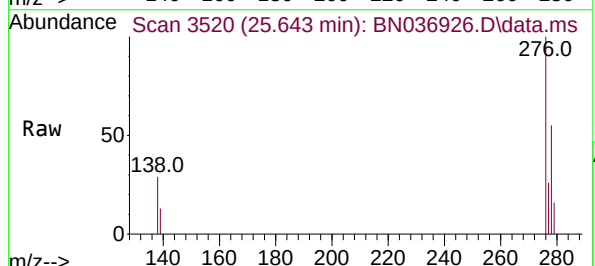
Tgt Ion:276 Resp: 12758

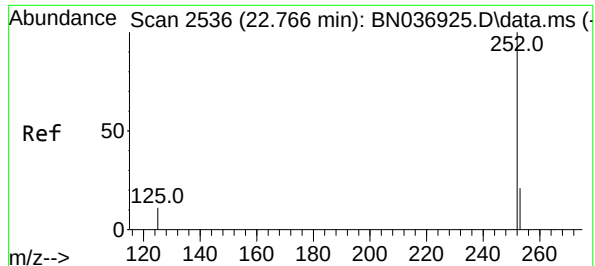
Ion Ratio Lower Upper

276 100

138 28.8 23.0 34.6

277 25.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.786 ng

RT: 22.766 min Scan# 2536

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

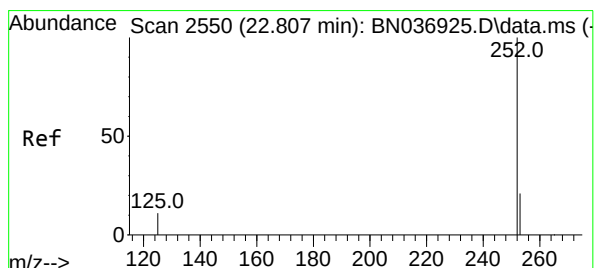
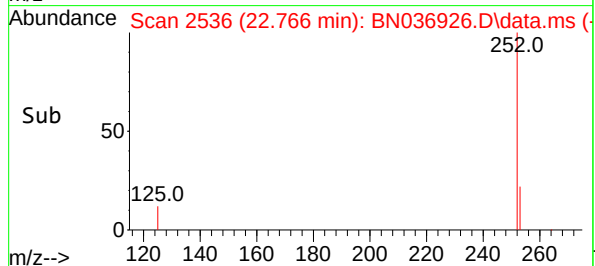
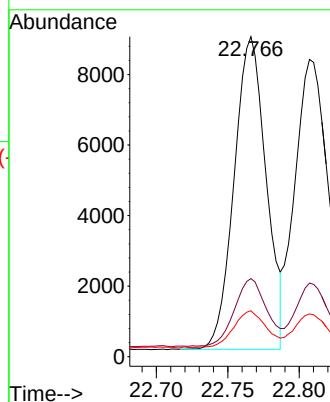
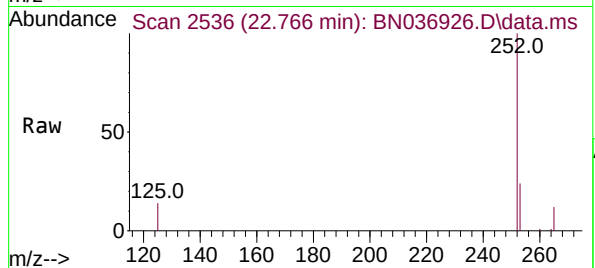
Tgt Ion:252 Resp: 13818

Ion Ratio Lower Upper

252 100

253 24.4 22.1 33.1

125 14.3 14.2 21.2



#38

Benzo(k)fluoranthene

Concen: 0.783 ng

RT: 22.807 min Scan# 2550

Delta R.T. -0.000 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

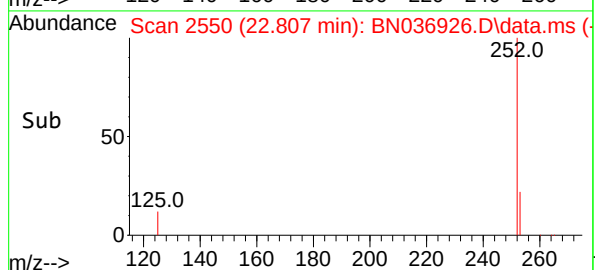
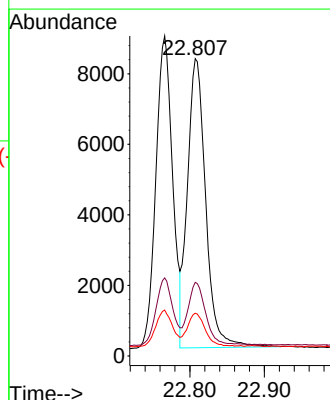
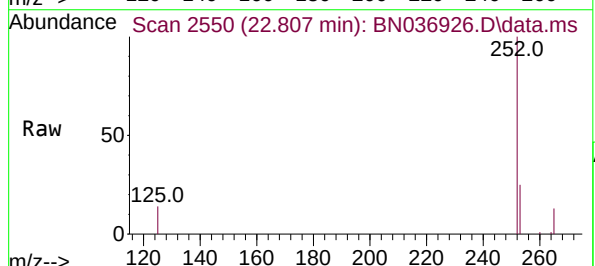
Tgt Ion:252 Resp: 13927

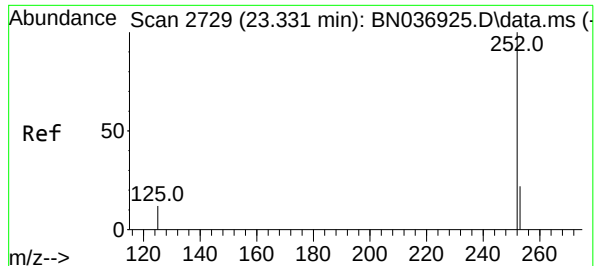
Ion Ratio Lower Upper

252 100

253 24.8 22.8 34.2

125 14.4 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.770 ng

RT: 23.330 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036926.D

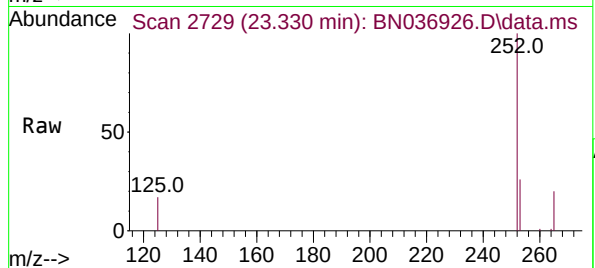
Acq: 28 Apr 2025 13:24

Instrument :

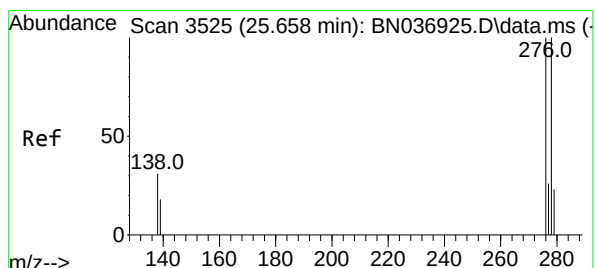
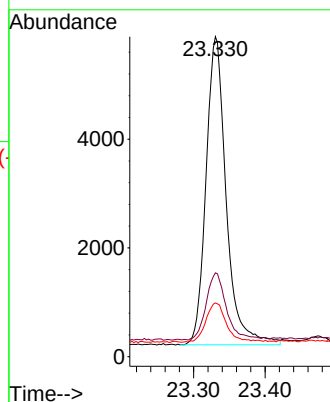
BNA_N

ClientSampleId :

SSTDICC0.8



Tgt Ion:	252	Resp:	11160
Ion Ratio	Lower	Upper	
252	100		
253	26.2	25.9	38.9
125	16.8	17.4	26.0#



#40

Dibenzo(a,h)anthracene

Concen: 0.730 ng

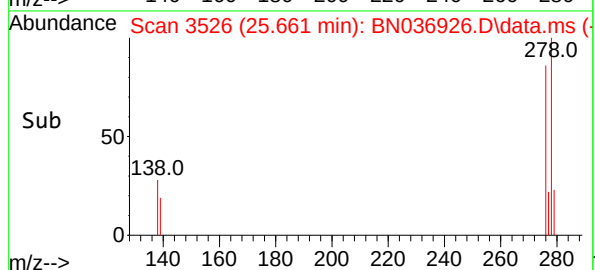
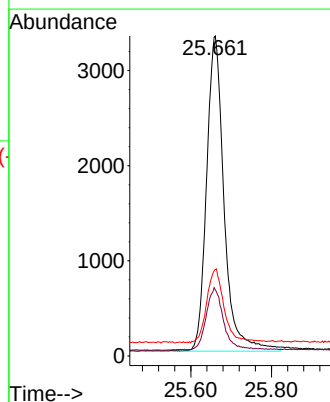
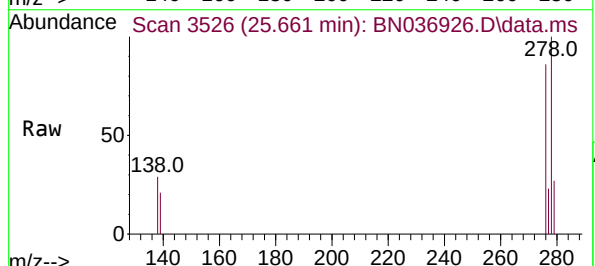
RT: 25.661 min Scan# 3526

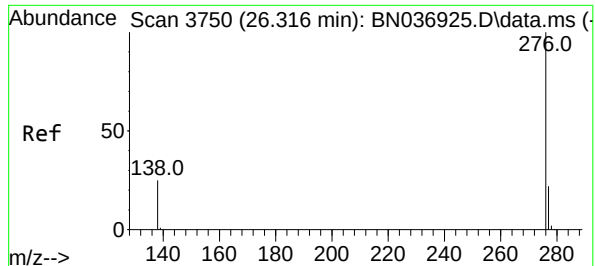
Delta R.T. 0.003 min

Lab File: BN036926.D

Acq: 28 Apr 2025 13:24

Tgt Ion:	278	Resp:	9982
Ion Ratio	Lower	Upper	
278	100		
139	20.7	17.4	26.2
279	27.0	24.9	37.3





#41

Benzo(g,h,i)perylene

Concen: 0.724 ng

RT: 26.321 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN036926.D

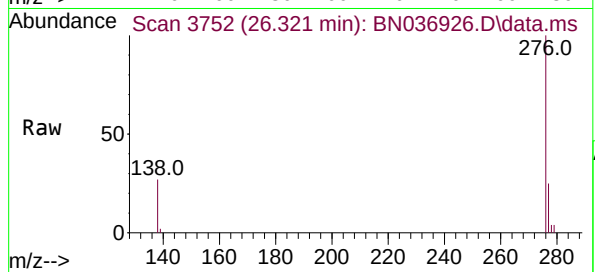
Acq: 28 Apr 2025 13:24

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



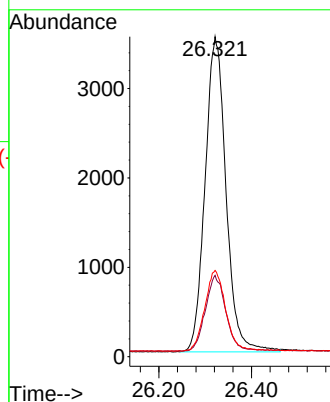
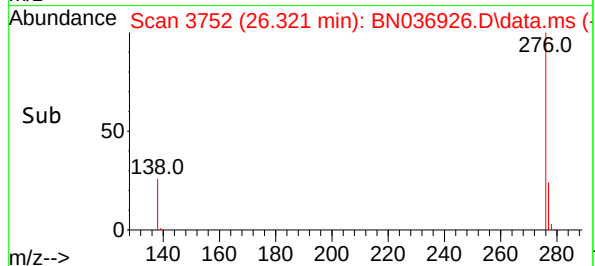
Tgt Ion:276 Resp: 11072

Ion Ratio Lower Upper

276 100

277 25.4 20.2 30.2

138 27.0 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036927.D
 Acq On : 28 Apr 2025 14:00
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Apr 28 15:13:40 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:11:09 2025
 Response via : Initial Calibration

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

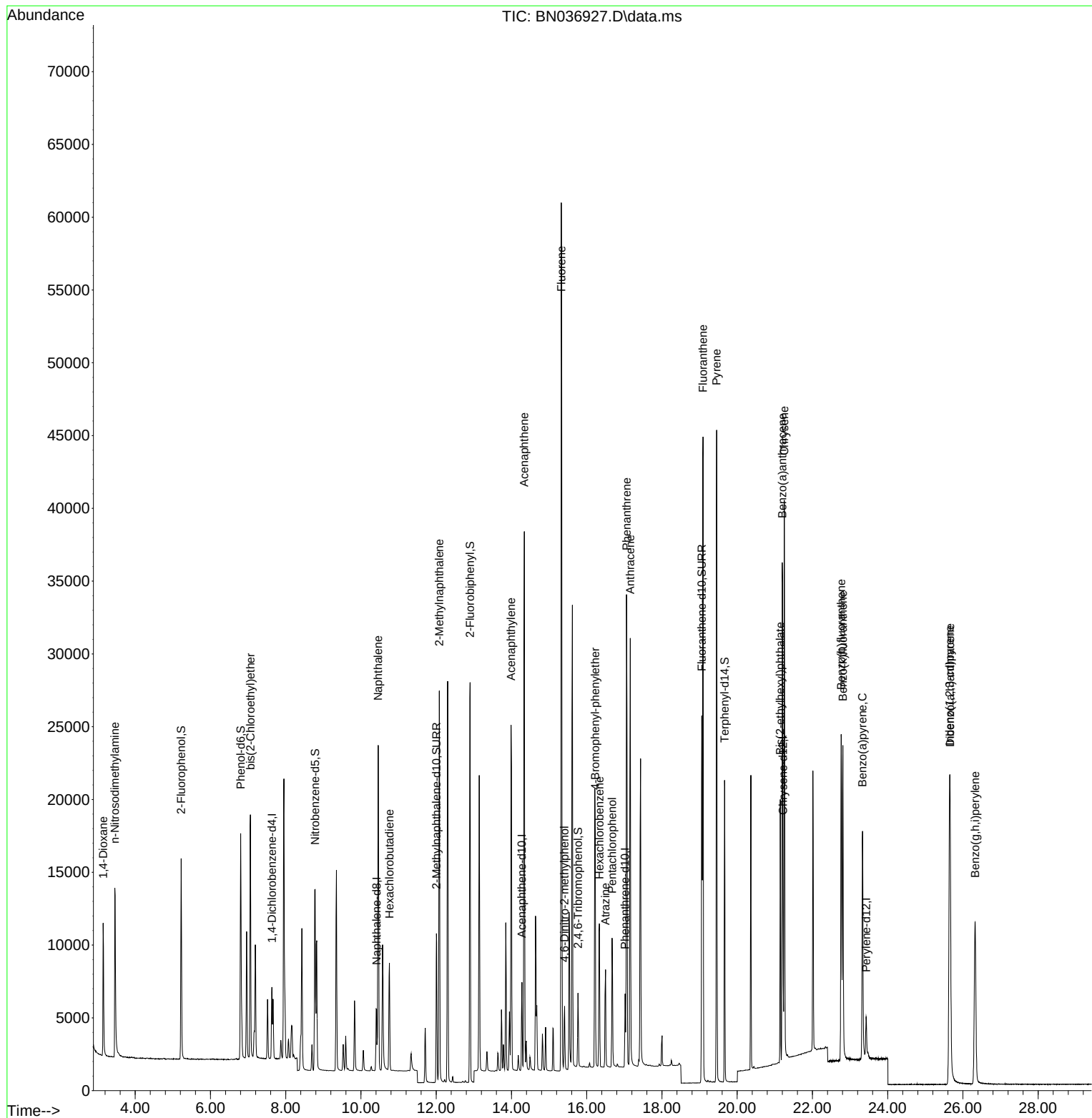
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2241	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	5594	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3185	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6118	0.400	ng	0.00
29) Chrysene-d12	21.215	240	4605	0.400	ng	0.00
35) Perylene-d12	23.427	264	3734	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	9327	1.613	ng	0.00
5) Phenol-d6	6.802	99	11600	1.647	ng	0.00
8) Nitrobenzene-d5	8.781	82	9972	1.716	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	13343	1.720	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	2388	1.711	ng	0.00
15) 2-Fluorobiphenyl	12.898	172	25773	1.673	ng	0.00
27) Fluoranthene-d10	19.059	212	26603	1.699	ng	0.00
31) Terphenyl-d14	19.667	244	18514	1.689	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.148	88	4813	1.701	ng	96
3) n-Nitrosodimethylamine	3.458	42	9269	1.696	ng	# 98
6) bis(2-Chloroethyl)ether	7.062	93	11118	1.699	ng	99
9) Naphthalene	10.458	128	27421	1.684	ng	98
10) Hexachlorobutadiene	10.756	225	5873	1.655	ng	# 98
12) 2-Methylnaphthalene	12.082	142	17991	1.727	ng	99
16) Acenaphthylene	13.988	152	26335	1.708	ng	100
17) Acenaphthene	14.341	154	16981	1.665	ng	99
18) Fluorene	15.325	166	22781	1.715	ng	98
20) 4,6-Dinitro-2-methylph...	15.410	198	2759	1.800	ng	# 58
21) 4-Bromophenyl-phenylether	16.226	248	6907	1.695	ng	95
22) Hexachlorobenzene	16.338	284	7427	1.650	ng	99
23) Atrazine	16.500	200	5555	1.729	ng	93
24) Pentachlorophenol	16.673	266	3995	1.710	ng	98
25) Phenanthrene	17.058	178	33948	1.687	ng	99
26) Anthracene	17.157	178	31205	1.734	ng	100
28) Fluoranthene	19.091	202	38607	1.732	ng	99
30) Pyrene	19.453	202	38176	1.706	ng	100
32) Benzo(a)anthracene	21.197	228	29164	1.737	ng	98
33) Chrysene	21.251	228	31322	1.703	ng	98
34) Bis(2-ethylhexyl)phtha...	21.144	149	14810	1.544	ng	99
36) Indeno(1,2,3-cd)pyrene	25.643	276	25695	1.681	ng	99
37) Benzo(b)fluoranthene	22.763	252	26826	1.733	ng	# 91
38) Benzo(k)fluoranthene	22.807	252	27065	1.730	ng	# 90
39) Benzo(a)pyrene	23.330	252	21844	1.712	ng	# 85
40) Dibenzo(a,h)anthracene	25.658	278	20274	1.685	ng	# 92
41) Benzo(g,h,i)perylene	26.324	276	22323	1.659	ng	97

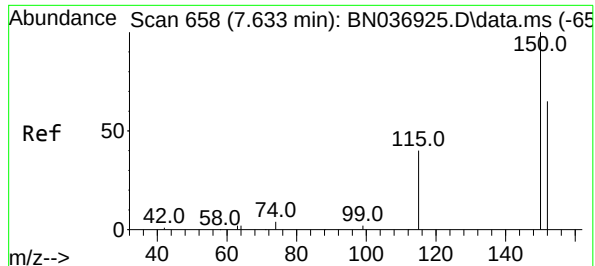
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036927.D
Acq On : 28 Apr 2025 14:00
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Apr 28 15:13:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration

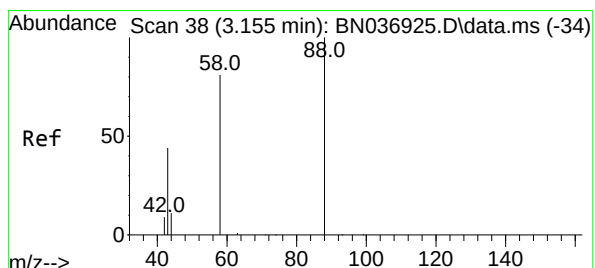
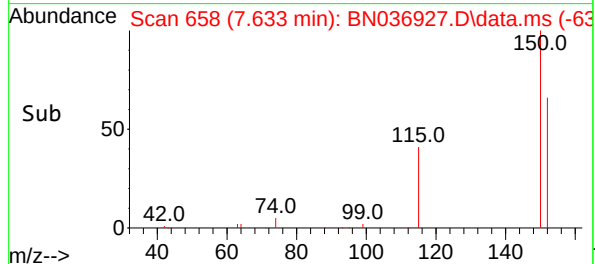
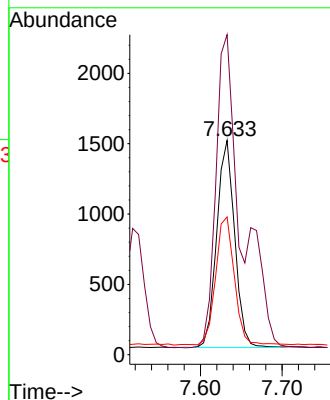
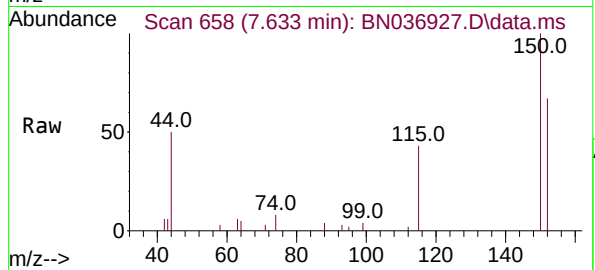




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

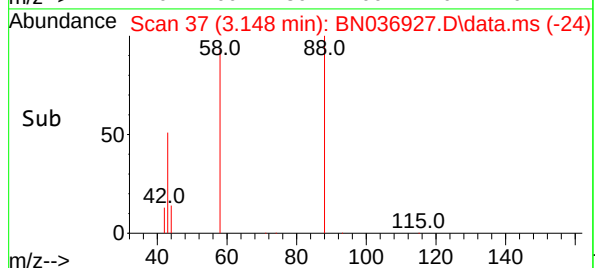
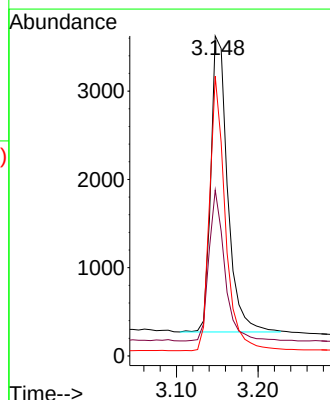
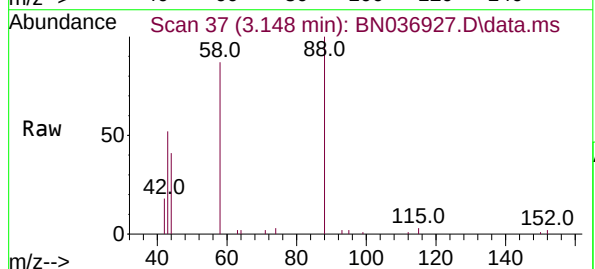
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

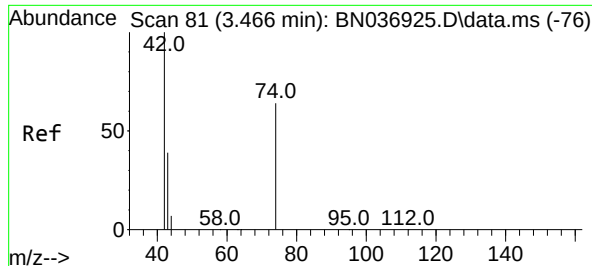
Tgt Ion:152 Resp: 2241
Ion Ratio Lower Upper
152 100
150 149.4 121.1 181.7
115 64.3 51.8 77.6



#2
1,4-Dioxane
Concen: 1.701 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 88 Resp: 4813
Ion Ratio Lower Upper
88 100
43 48.0 37.9 56.9
58 86.9 65.8 98.6

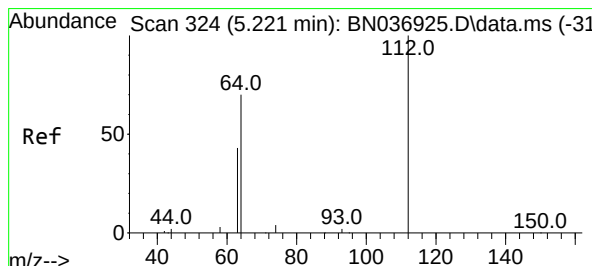
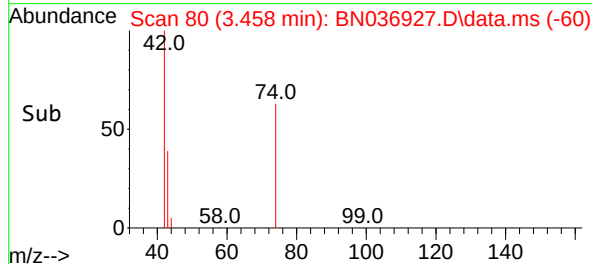
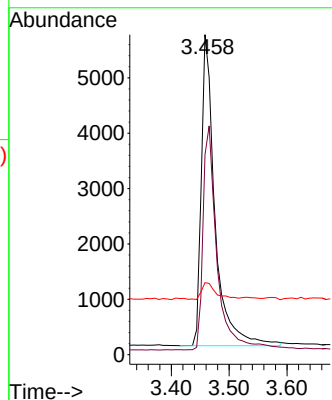
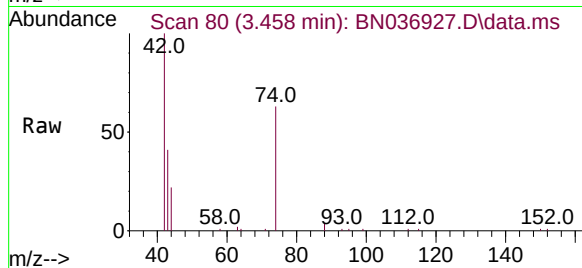




#3
n-Nitrosodimethylamine
Concen: 1.696 ng
RT: 3.458 min Scan# 80
Delta R.T. -0.007 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

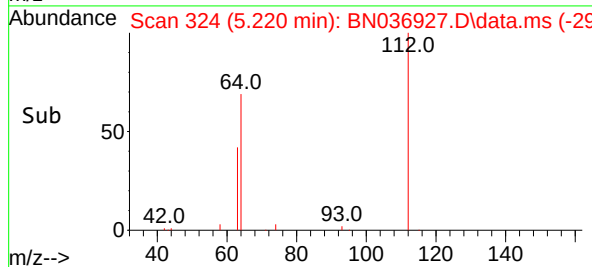
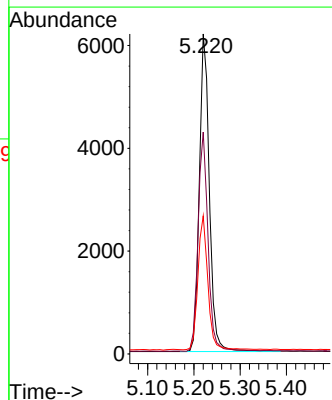
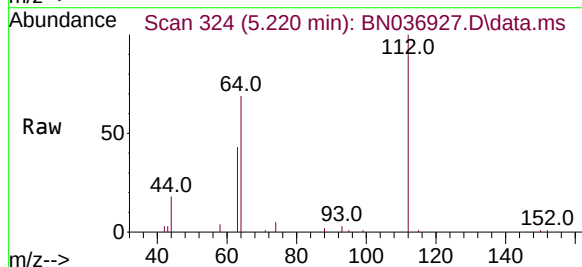
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

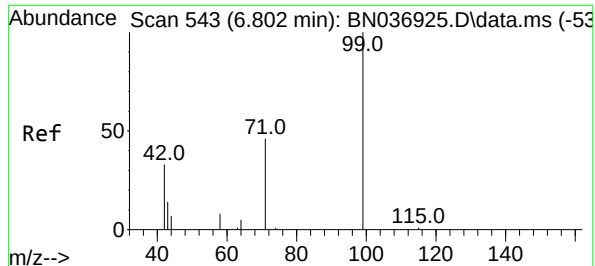
Tgt Ion: 42 Resp: 9269
Ion Ratio Lower Upper
42 100
74 73.6 59.9 89.9
44 5.5 7.5 11.3#



#4
2-Fluorophenol
Concen: 1.613 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 112 Resp: 9327
Ion Ratio Lower Upper
112 100
64 68.9 55.7 83.5
63 42.2 33.9 50.9

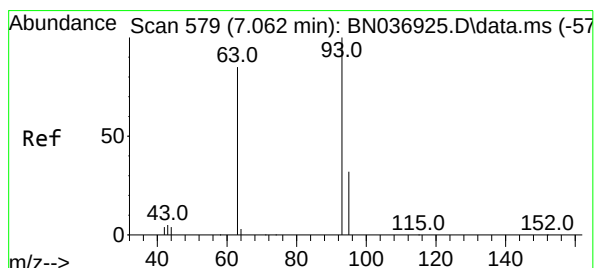
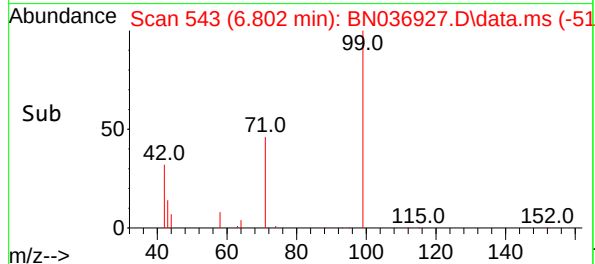
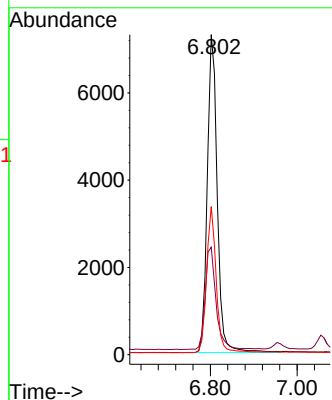
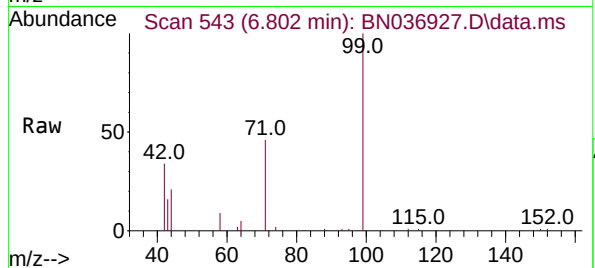




#5
Phenol-d6
Concen: 1.647 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

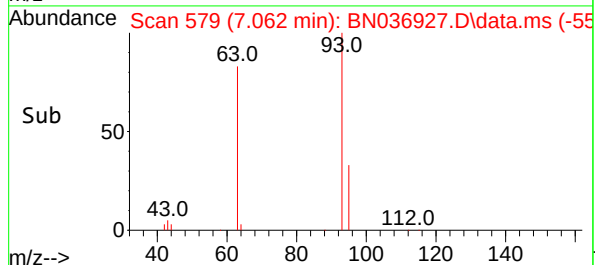
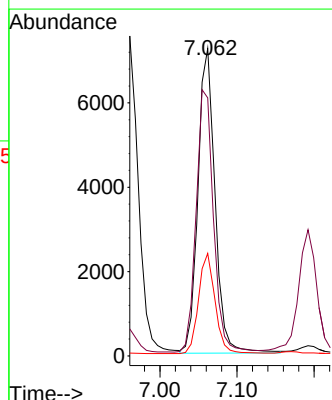
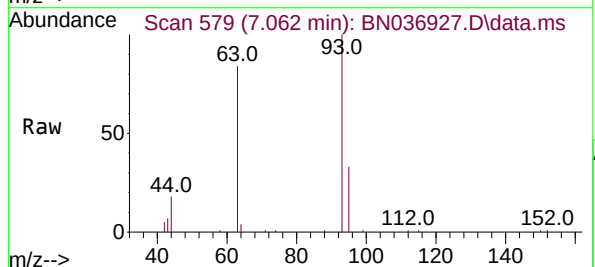
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

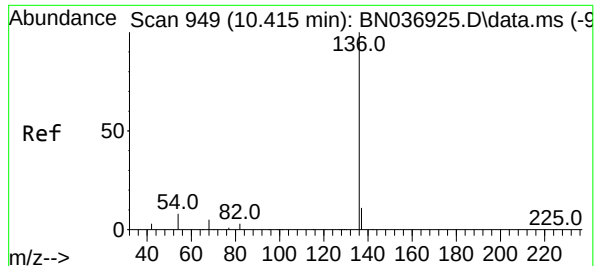
Tgt Ion: 99 Resp: 11600
Ion Ratio Lower Upper
99 100
42 35.3 29.6 44.4
71 44.4 36.0 54.0



#6
bis(2-Chloroethyl)ether
Concen: 1.699 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion: 93 Resp: 11118
Ion Ratio Lower Upper
93 100
63 87.5 69.0 103.6
95 31.9 25.4 38.0

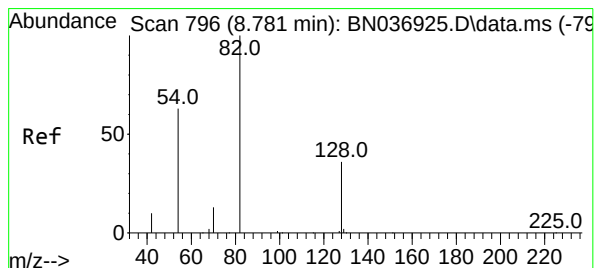
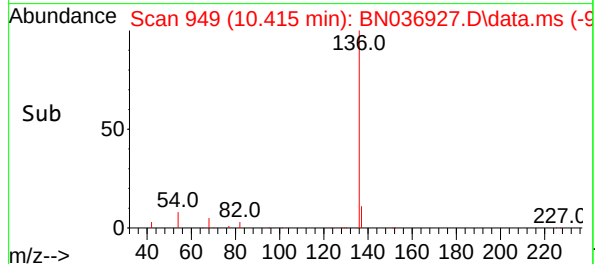
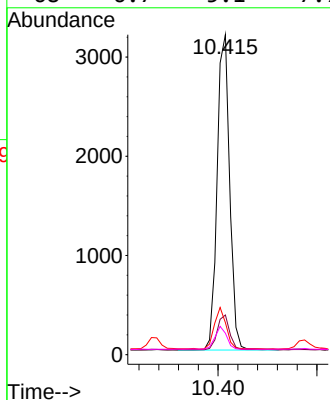
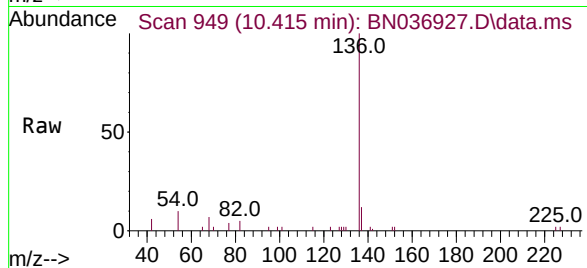




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

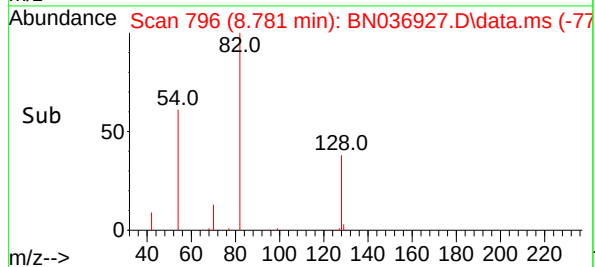
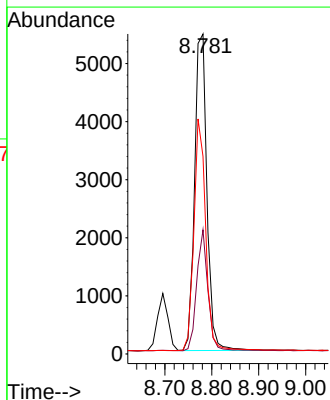
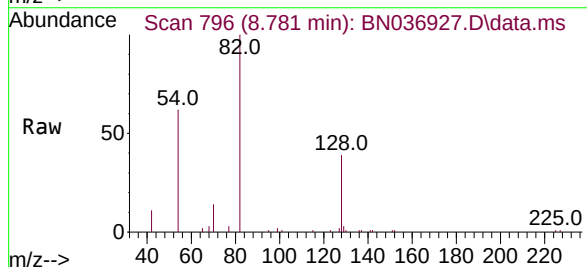
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

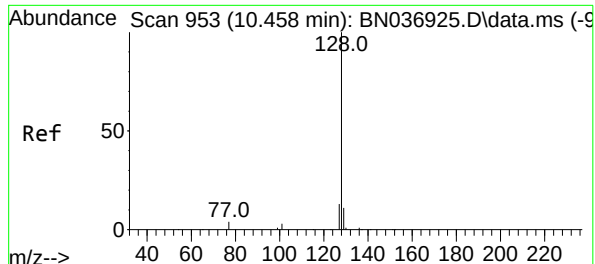
Tgt Ion:	136	Resp:	5594
Ion	Ratio	Lower	Upper
136	100		
137	12.4	9.7	14.5
54	10.0	8.0	12.0
68	6.7	5.1	7.7



#8
Nitrobenzene-d5
Concen: 1.716 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:	82	Resp:	9972
Ion	Ratio	Lower	Upper
82	100		
128	38.8	30.7	46.1
54	61.8	52.1	78.1





#9

Naphthalene

Concen: 1.684 ng

RT: 10.458 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

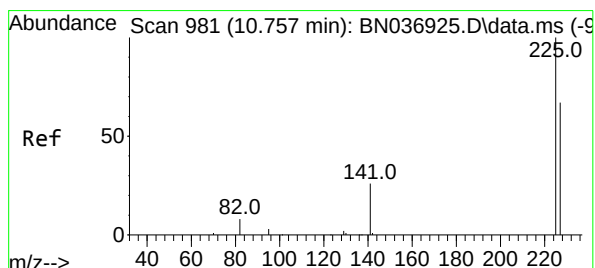
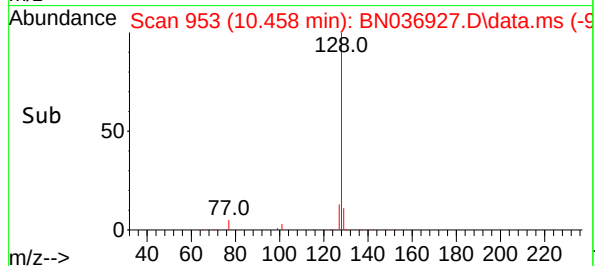
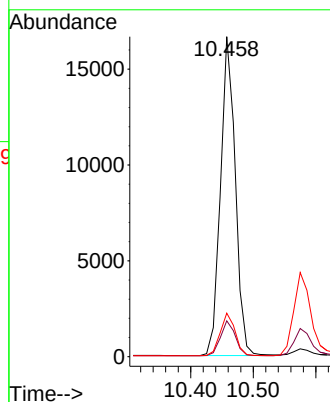
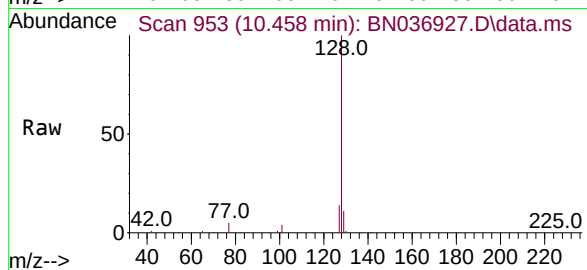
Tgt Ion:128 Resp: 27421

Ion Ratio Lower Upper

128 100

129 11.2 9.8 14.6

127 13.6 11.4 17.2



#10

Hexachlorobutadiene

Concen: 1.655 ng

RT: 10.756 min Scan# 981

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

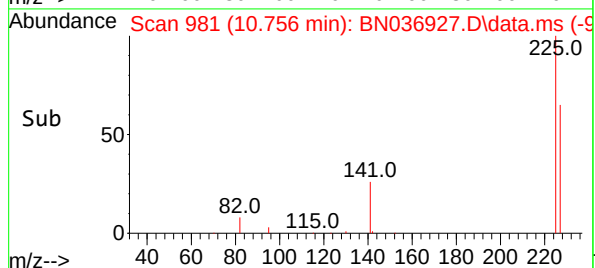
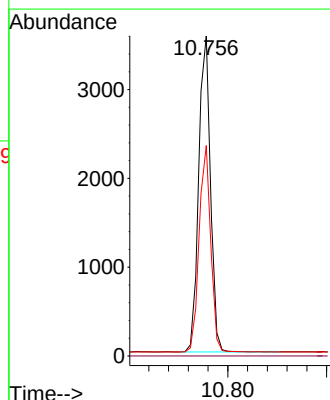
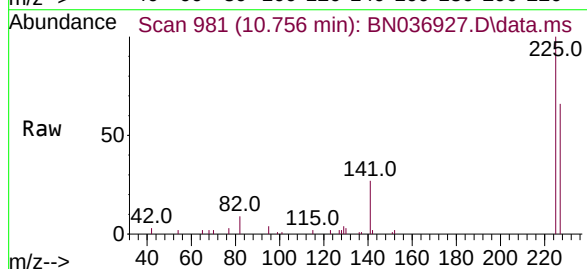
Tgt Ion:225 Resp: 5873

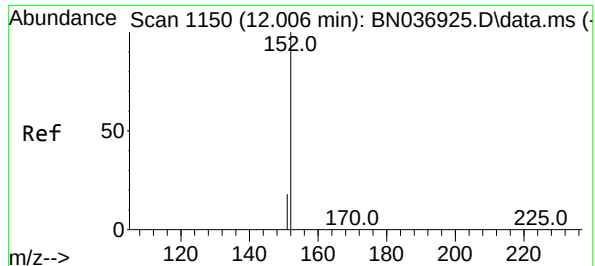
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.1 52.2 78.4

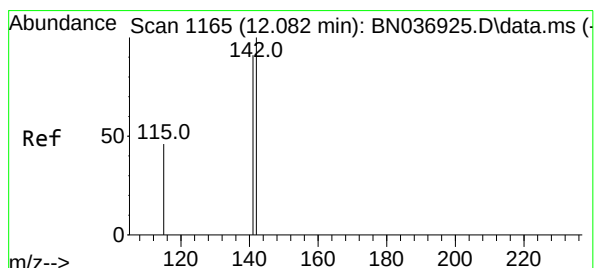
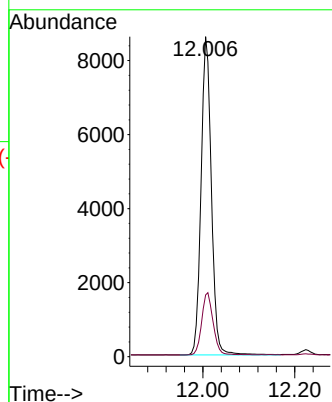
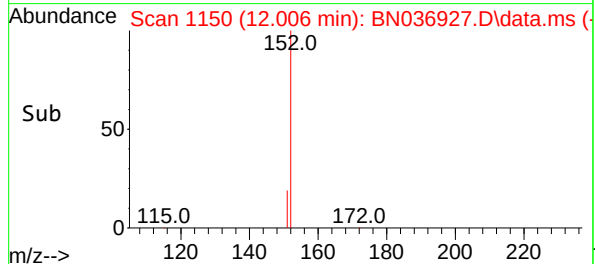
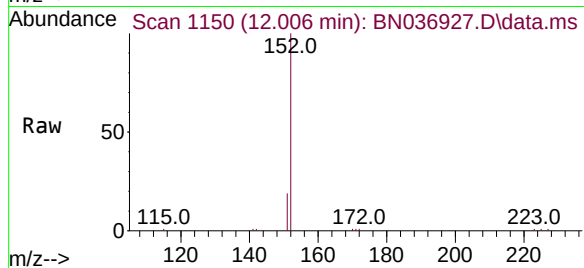




#11
2-Methylnaphthalene-d10
Concen: 1.720 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

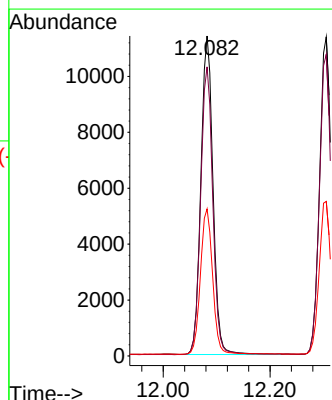
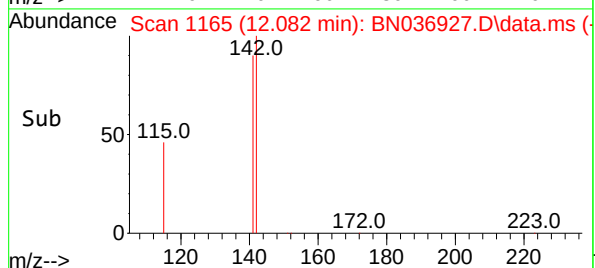
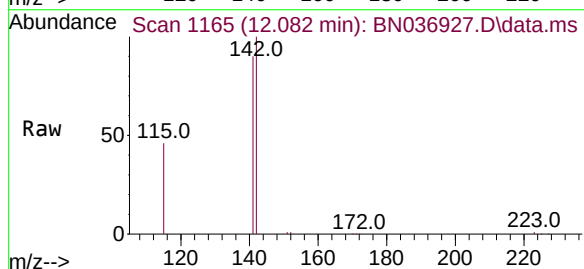
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

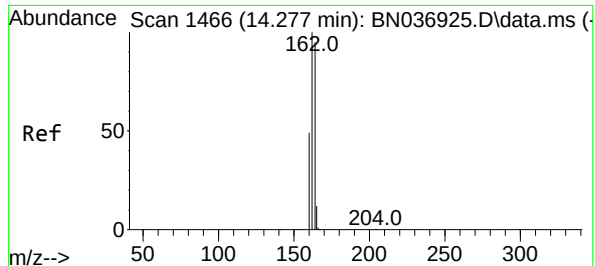
Tgt Ion:152 Resp: 13343
Ion Ratio Lower Upper
152 100
151 21.6 16.9 25.3



#12
2-Methylnaphthalene
Concen: 1.727 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:142 Resp: 17991
Ion Ratio Lower Upper
142 100
141 90.3 72.8 109.2
115 46.0 38.2 57.4

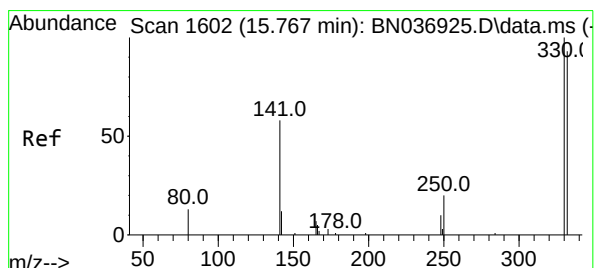
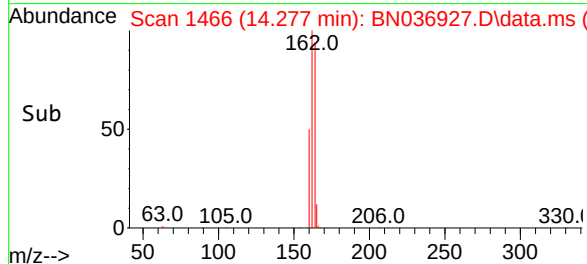
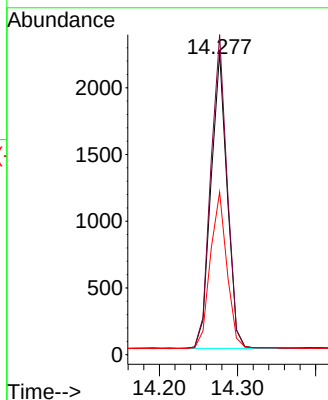
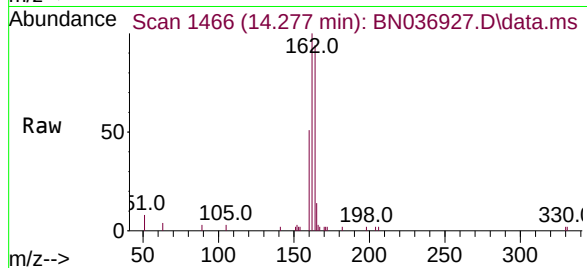




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

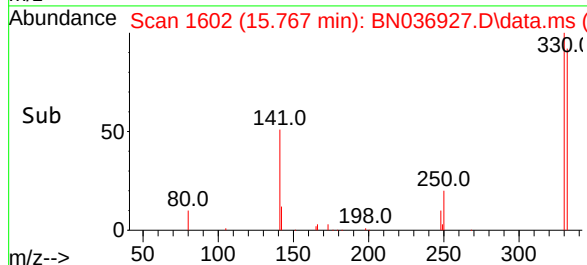
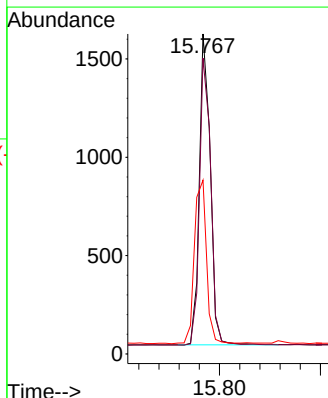
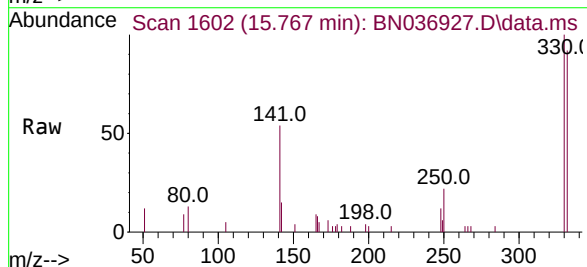
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

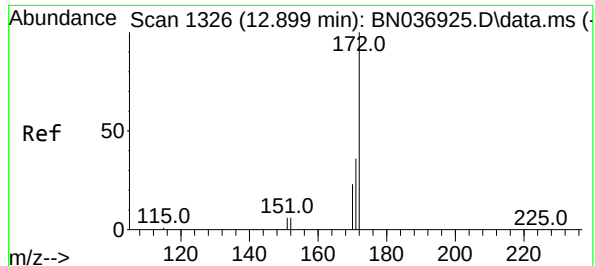
Tgt Ion:164 Resp: 3185
Ion Ratio Lower Upper
164 100
162 105.9 83.8 125.8
160 53.8 42.0 63.0



#14
2,4,6-Tribromophenol
Concen: 1.711 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:330 Resp: 2388
Ion Ratio Lower Upper
330 100
332 95.3 76.3 114.5
141 58.3 45.4 68.2

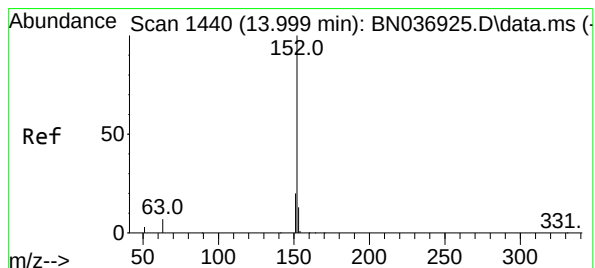
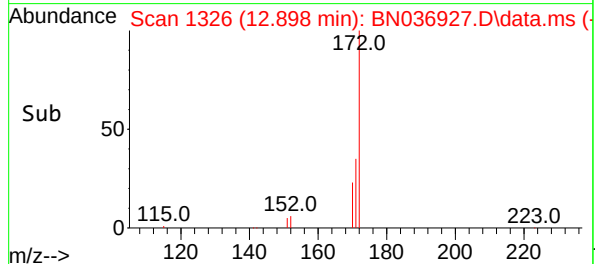
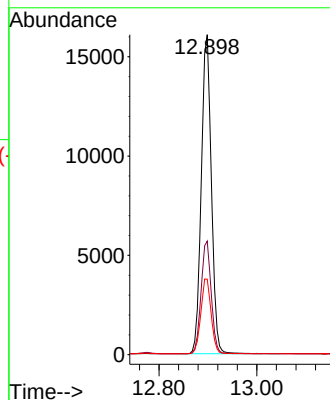
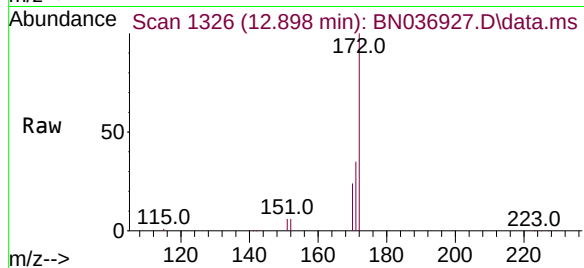




#15
2-Fluorobiphenyl
Concen: 1.673 ng
RT: 12.898 min Scan# 1439
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

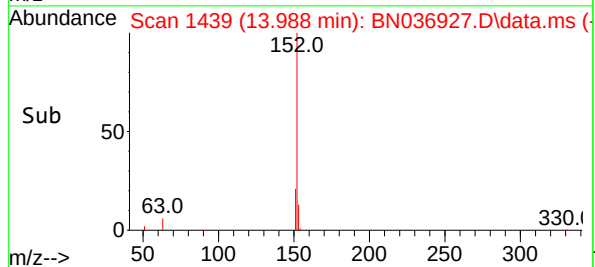
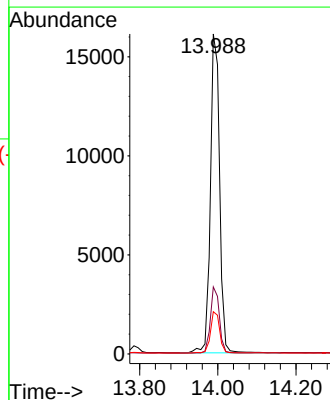
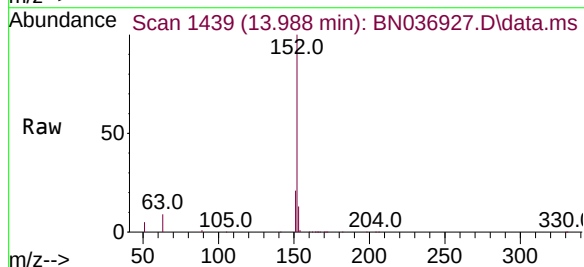
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

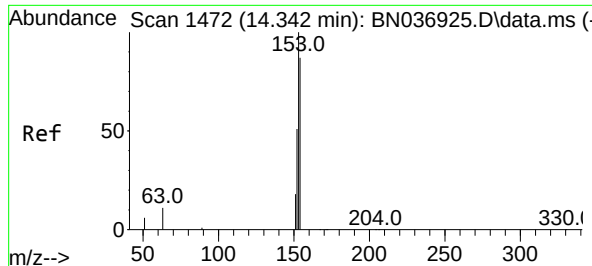
Tgt Ion:172 Resp: 25773
Ion Ratio Lower Upper
172 100
171 35.5 29.4 44.0
170 23.6 19.4 29.0



#16
Acenaphthylene
Concen: 1.708 ng
RT: 13.988 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:152 Resp: 26335
Ion Ratio Lower Upper
152 100
151 20.0 16.0 24.0
153 13.0 10.2 15.2

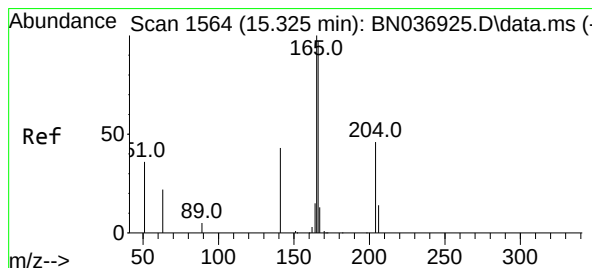
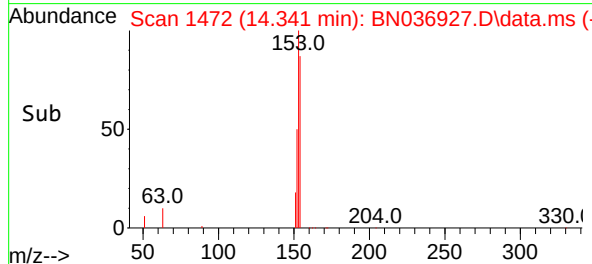
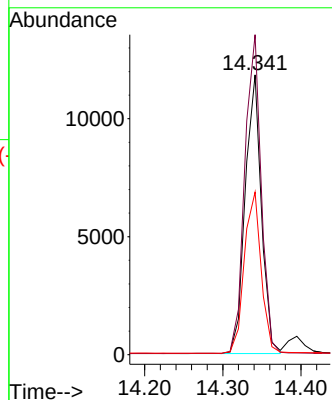
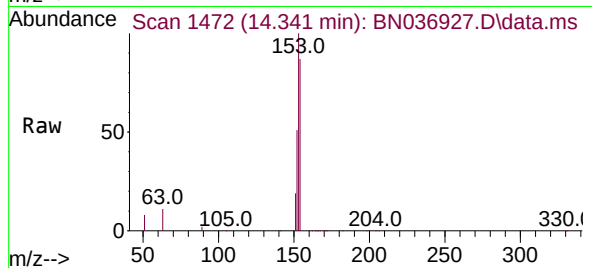




#17
Acenaphthene
Concen: 1.665 ng
RT: 14.341 min Scan# 1472
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

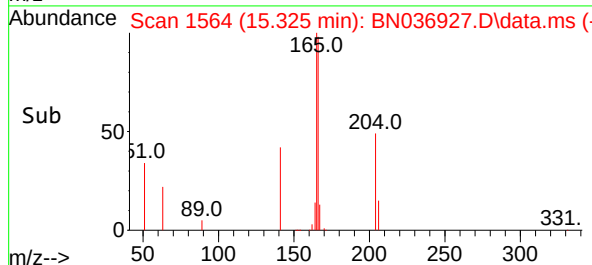
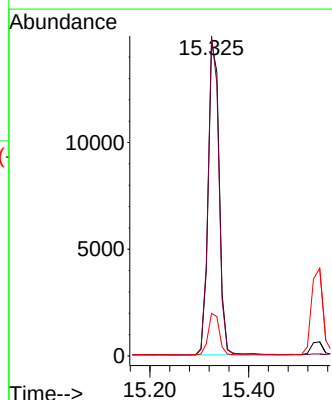
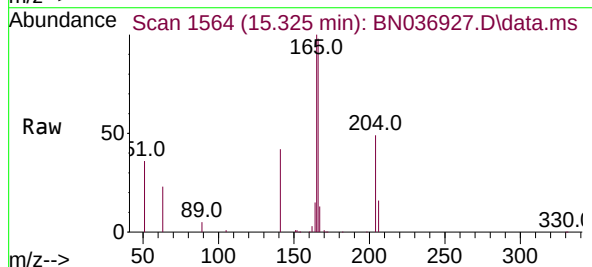
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

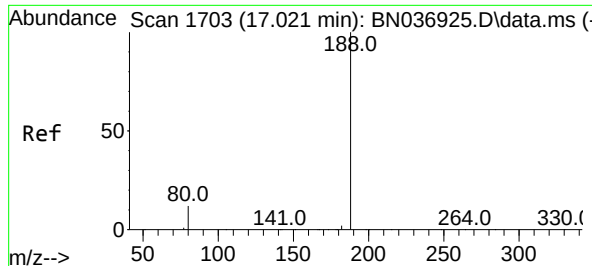
Tgt Ion:154 Resp: 16981
Ion Ratio Lower Upper
154 100
153 116.6 93.4 140.2
152 60.9 49.5 74.3



#18
Fluorene
Concen: 1.715 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:166 Resp: 22781
Ion Ratio Lower Upper
166 100
165 99.0 80.8 121.2
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

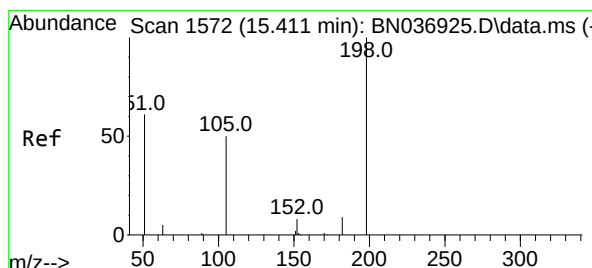
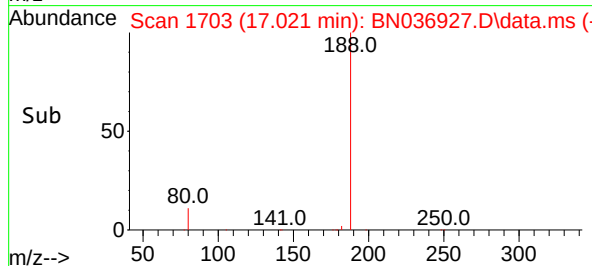
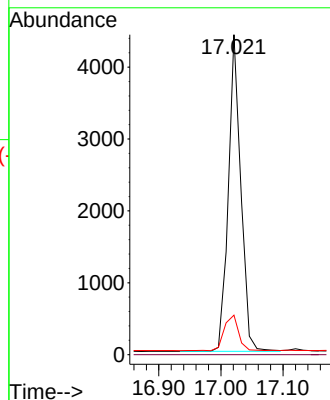
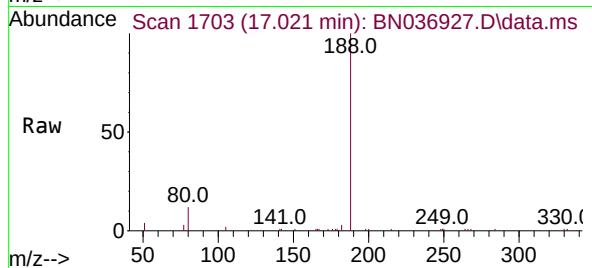
Tgt Ion:188 Resp: 6118

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.3 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 1.800 ng

RT: 15.410 min Scan# 1572

Delta R.T. -0.001 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

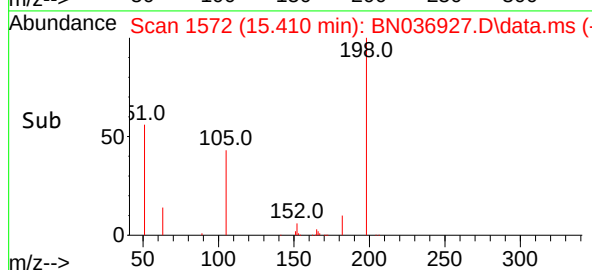
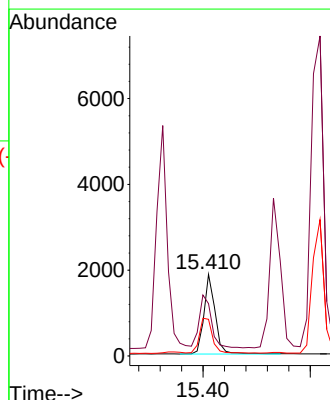
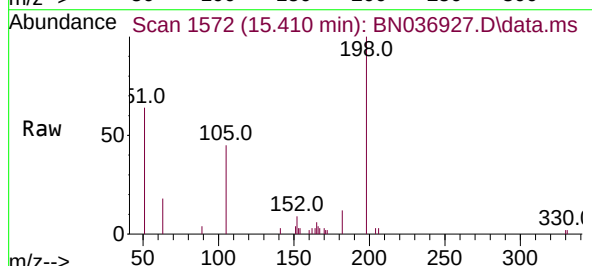
Tgt Ion:198 Resp: 2759

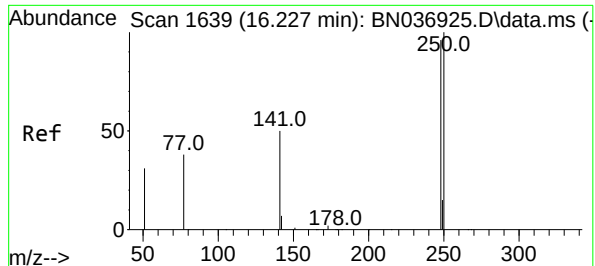
Ion Ratio Lower Upper

198 100

51 64.1 97.9 146.9#

105 44.9 50.0 75.0#

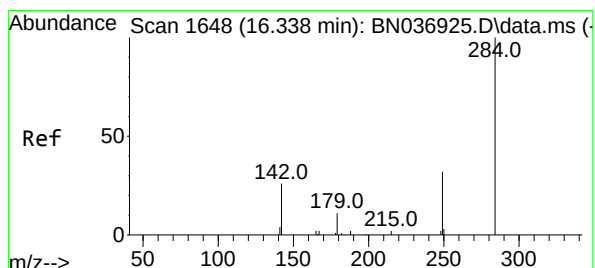
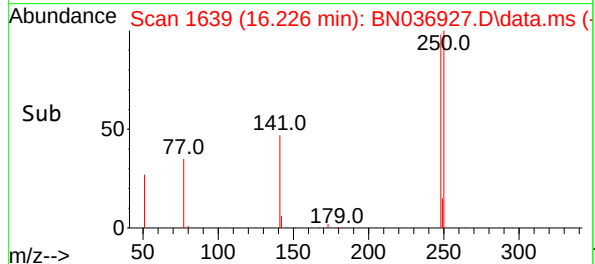
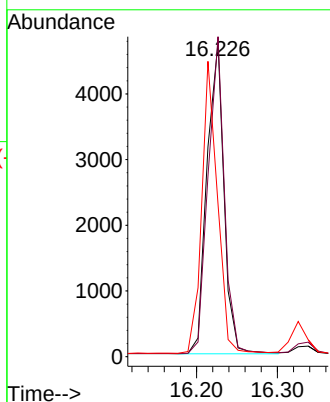
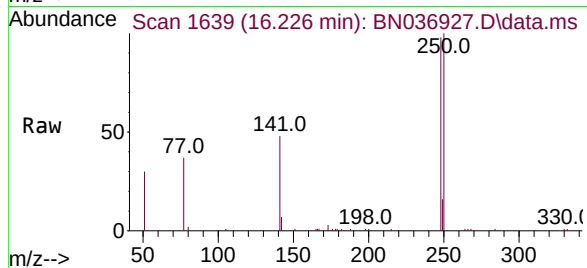




#21
4-Bromophenyl-phenylether
Concen: 1.695 ng
RT: 16.226 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

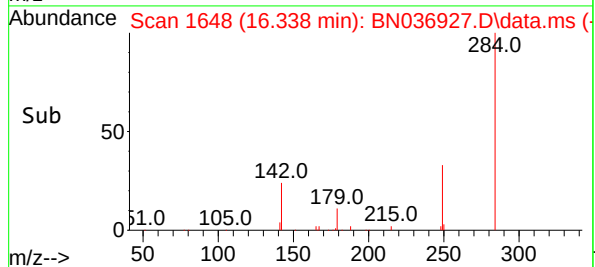
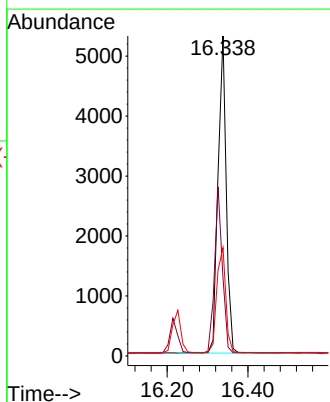
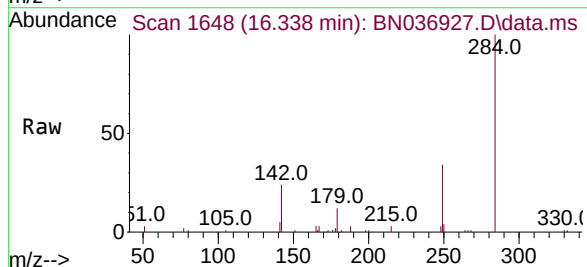
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

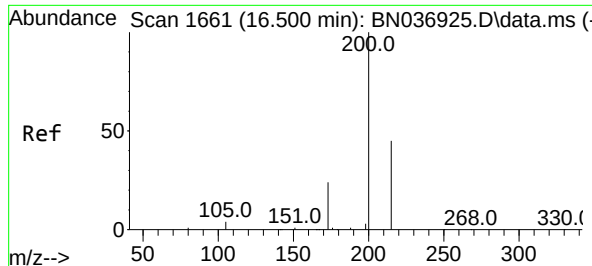
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.8	83.7	125.5
141	48.5	43.8	65.8



#22
Hexachlorobenzene
Concen: 1.650 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion	Ratio	Lower	Upper
284	100		
142	50.5	40.0	60.0
249	36.5	28.2	42.2

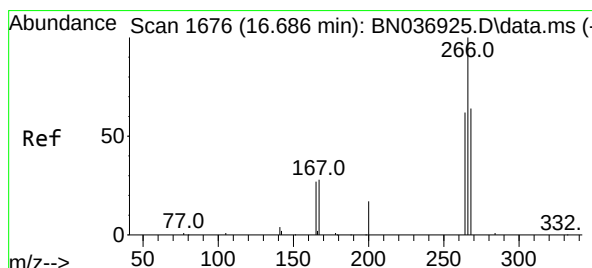
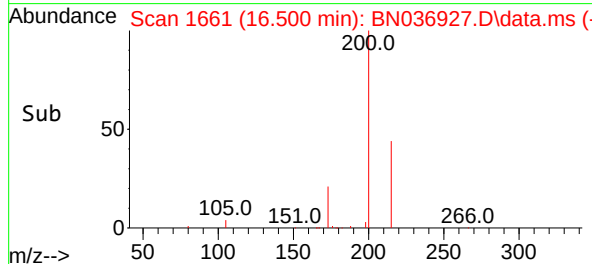
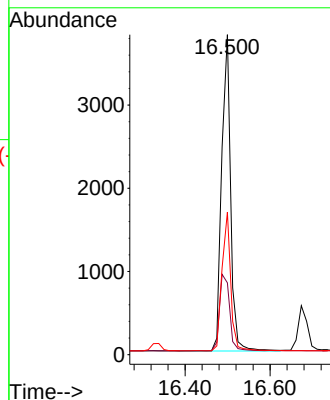
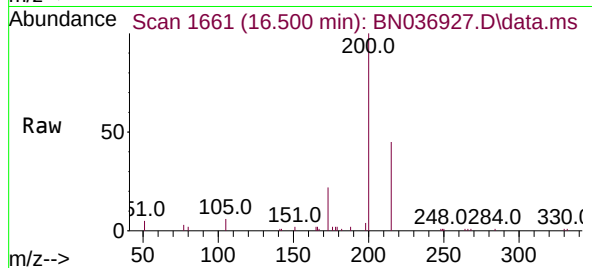




#23
Atrazine
Concen: 1.729 ng
RT: 16.500 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

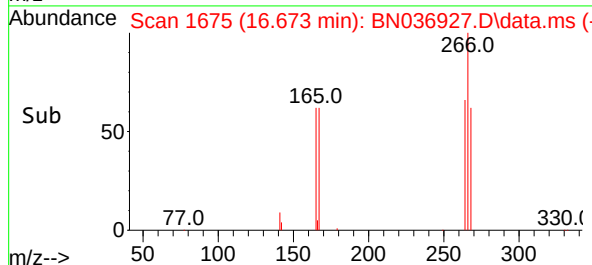
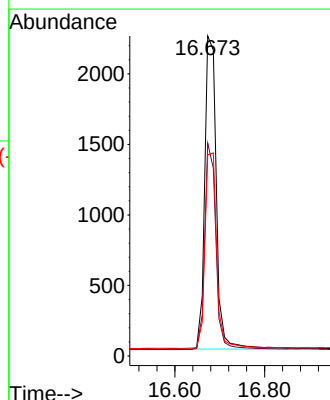
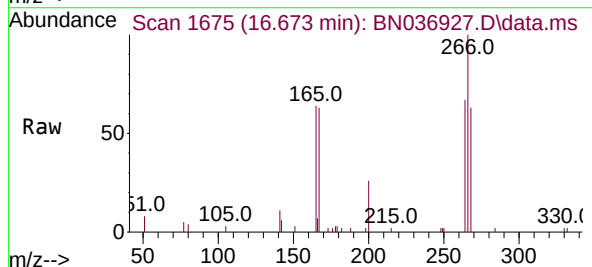
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

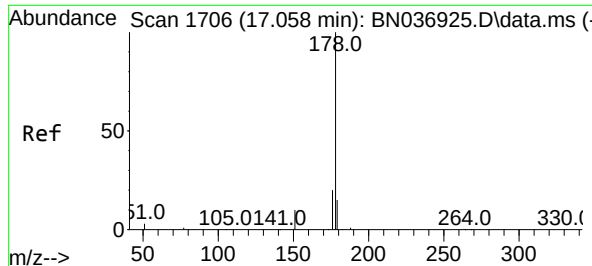
Tgt Ion	Ratio	Lower	Upper
200	100		
173	22.5	22.4	33.6
215	44.6	38.6	57.8



#24
Pentachlorophenol
Concen: 1.710 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.013 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.3	49.9	74.9
268	63.2	52.2	78.4

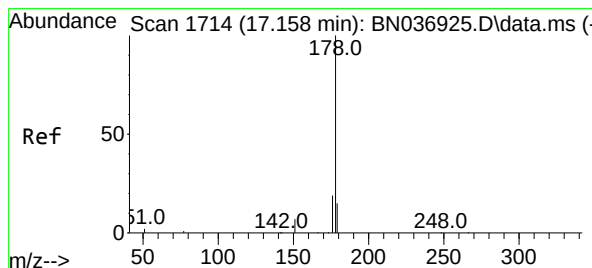
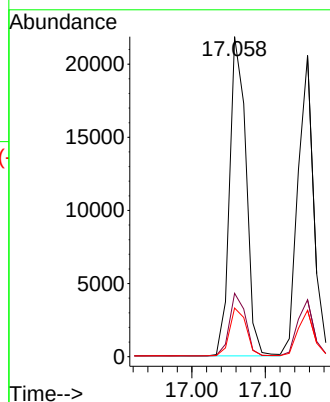
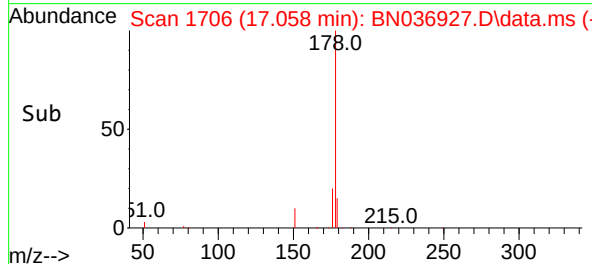
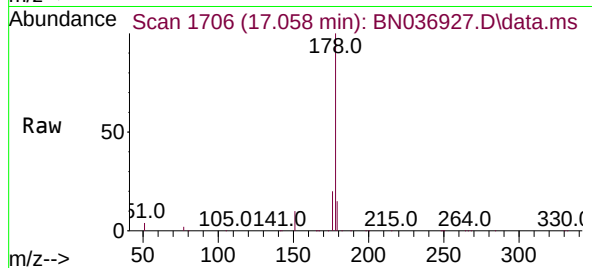




#25
Phenanthrene
Concen: 1.687 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

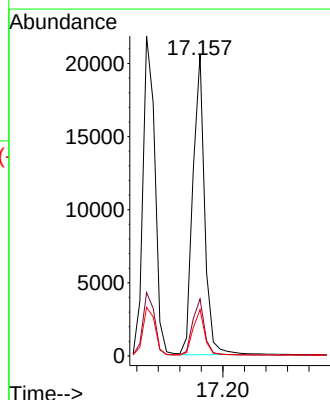
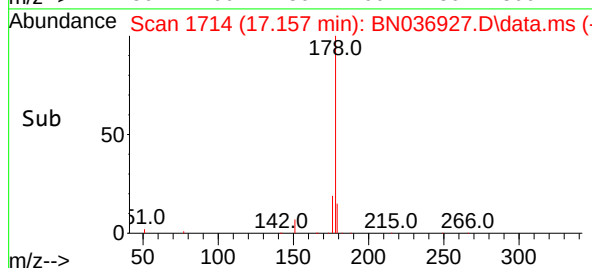
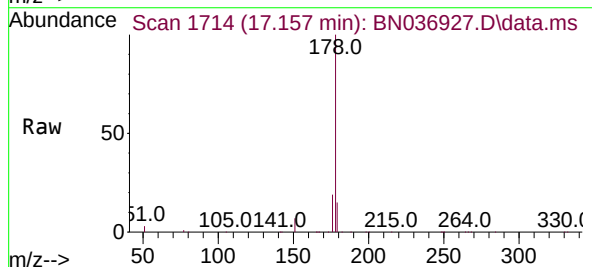
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

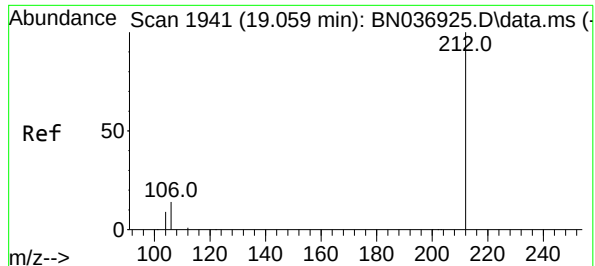
Tgt Ion:178 Resp: 33948
Ion Ratio Lower Upper
178 100
176 19.4 15.7 23.5
179 15.1 12.4 18.6



#26
Anthracene
Concen: 1.734 ng
RT: 17.157 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:178 Resp: 31205
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.2 12.1 18.1





#27

Fluoranthene-d10

Concen: 1.699 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

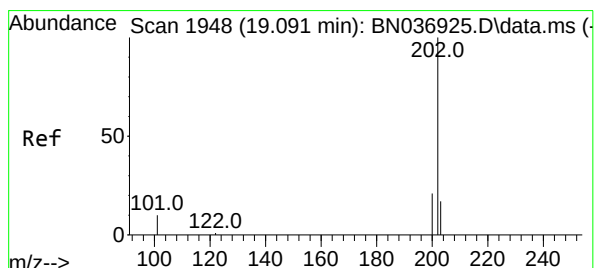
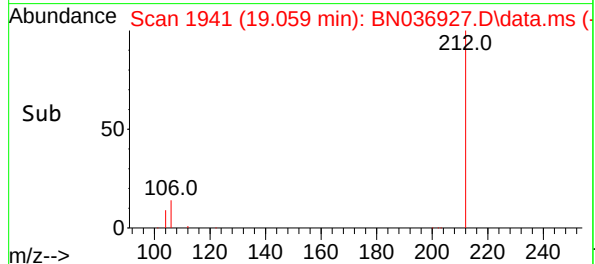
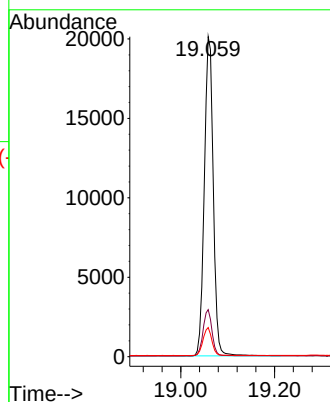
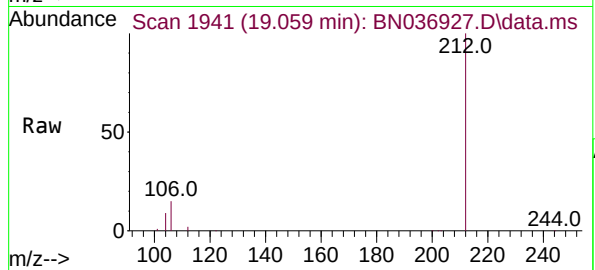
Tgt Ion:212 Resp: 26603

Ion Ratio Lower Upper

212 100

106 14.4 11.6 17.4

104 8.8 7.0 10.4



#28

Fluoranthene

Concen: 1.732 ng

RT: 19.091 min Scan# 1948

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

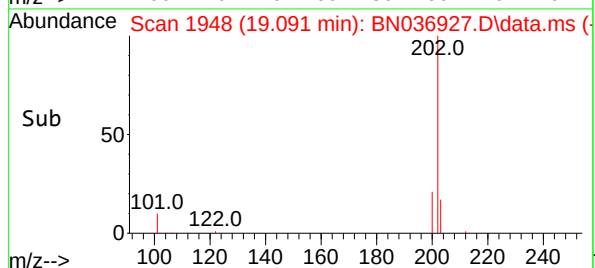
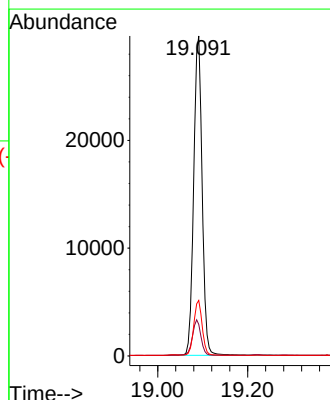
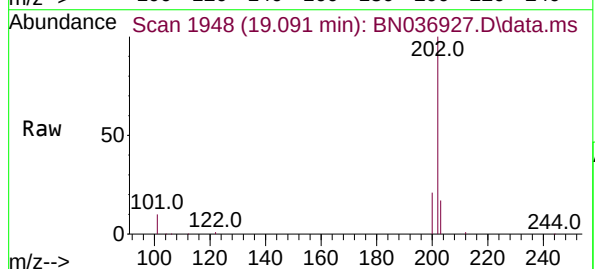
Tgt Ion:202 Resp: 38607

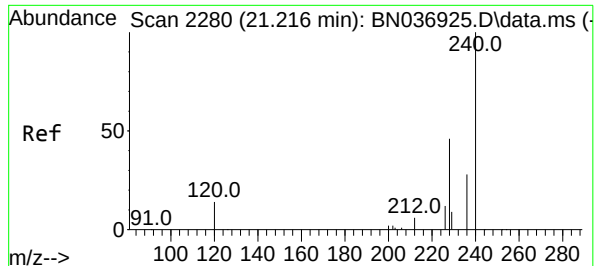
Ion Ratio Lower Upper

202 100

101 11.3 8.5 12.7

203 17.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

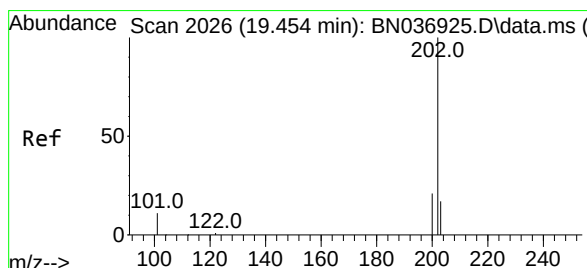
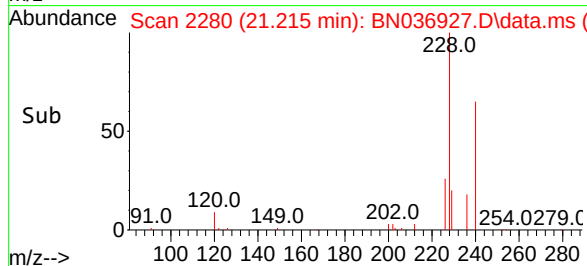
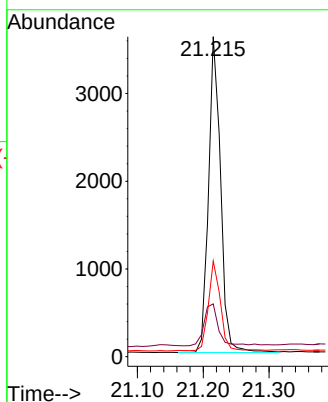
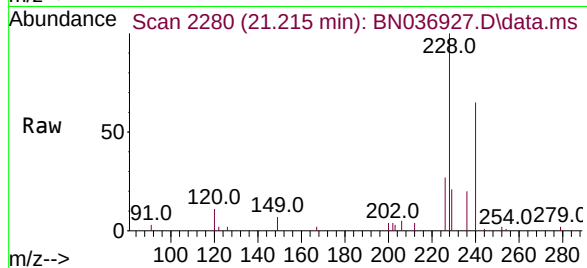
Tgt Ion:240 Resp: 4605

Ion Ratio Lower Upper

240 100

120 16.5 14.1 21.1

236 29.9 23.8 35.8



#30

Pyrene

Concen: 1.706 ng

RT: 19.453 min Scan# 2026

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

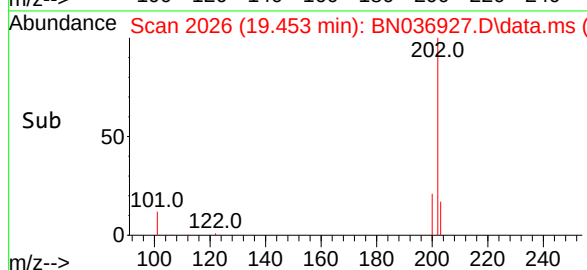
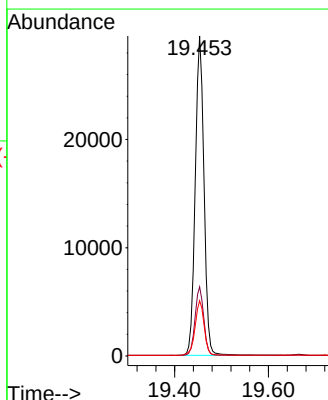
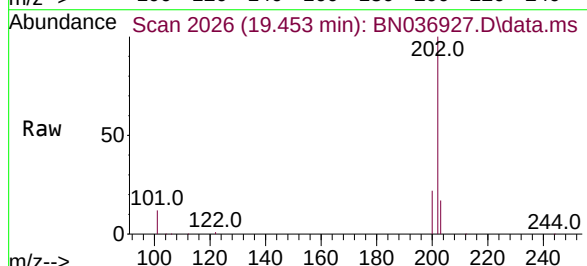
Tgt Ion:202 Resp: 38176

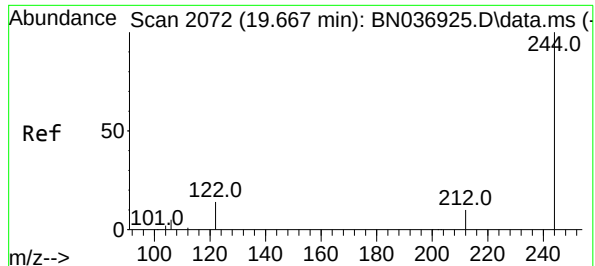
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

203 17.7 14.0 21.0

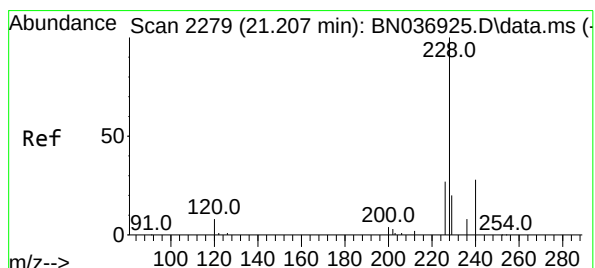
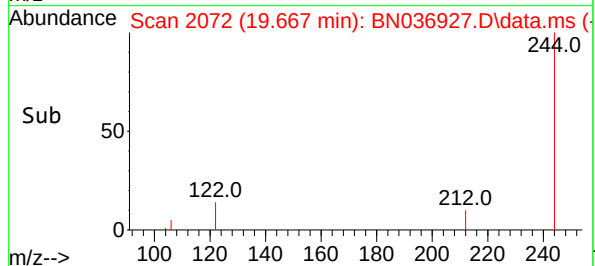
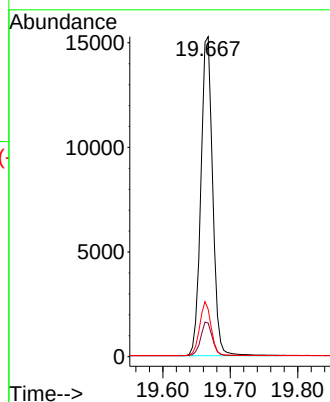
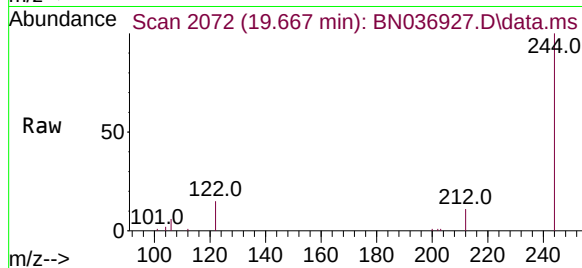




#31
Terphenyl-d14
Concen: 1.689 ng
RT: 19.667 min Scan# 2072
Delta R.T. -0.000 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

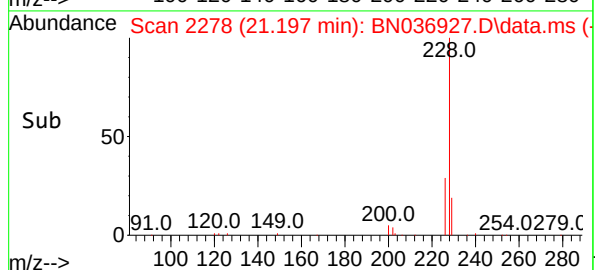
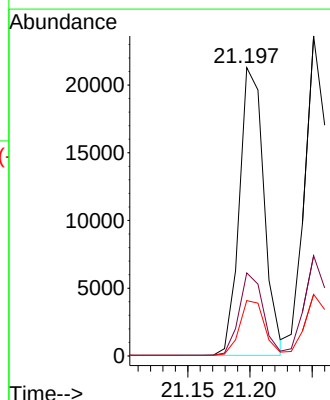
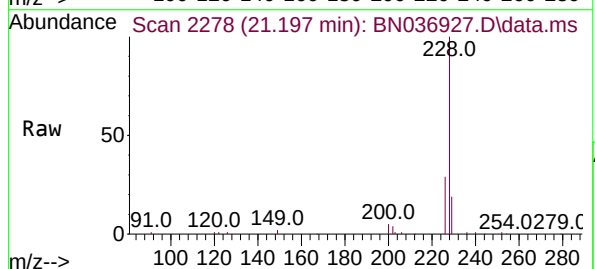
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

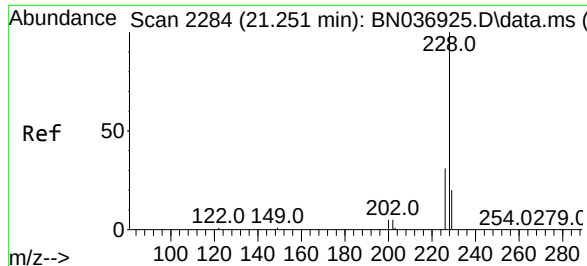
Tgt Ion:244 Resp: 18514
Ion Ratio Lower Upper
244 100
212 10.5 9.6 14.4
122 14.7 12.7 19.1



#32
Benzo(a)anthracene
Concen: 1.737 ng
RT: 21.197 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036927.D
Acq: 28 Apr 2025 14:00

Tgt Ion:228 Resp: 29164
Ion Ratio Lower Upper
228 100
226 28.8 22.2 33.4
229 19.2 16.4 24.6





#33

Chrysene

Concen: 1.703 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

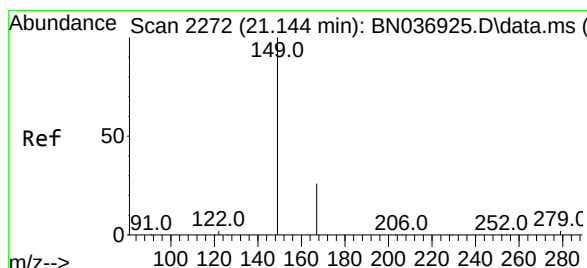
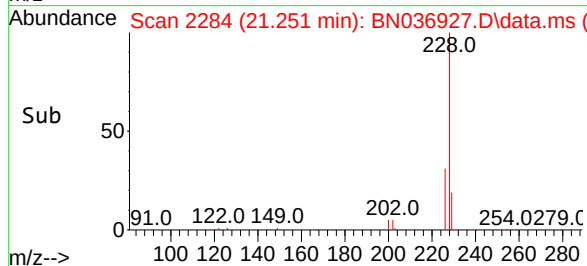
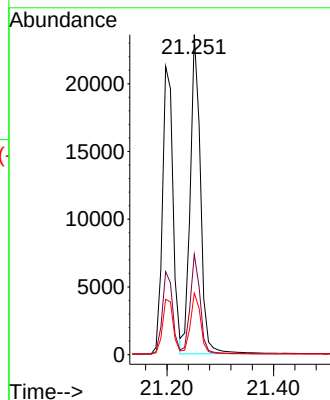
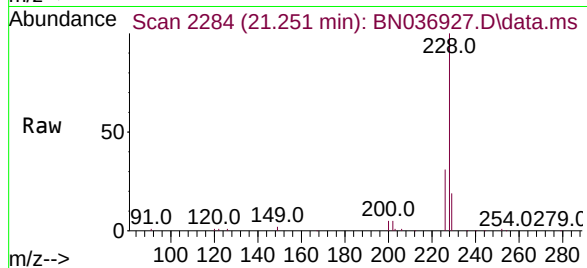
Tgt Ion:228 Resp: 31322

Ion Ratio Lower Upper

228 100

226 31.3 25.5 38.3

229 19.3 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.544 ng

RT: 21.144 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

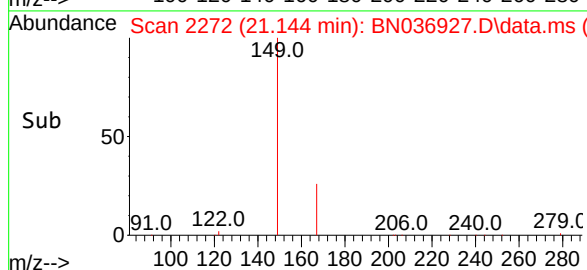
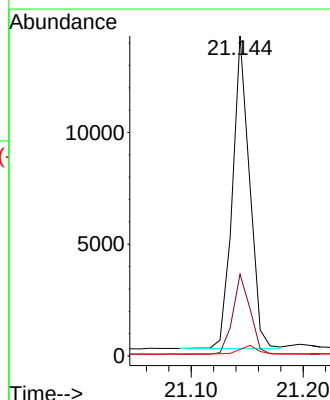
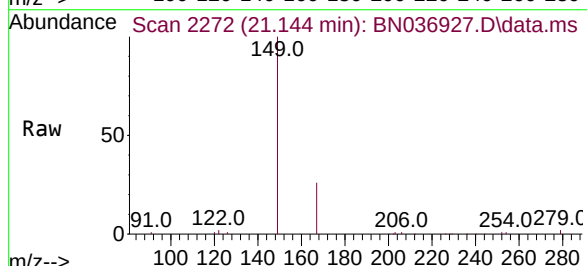
Tgt Ion:149 Resp: 14810

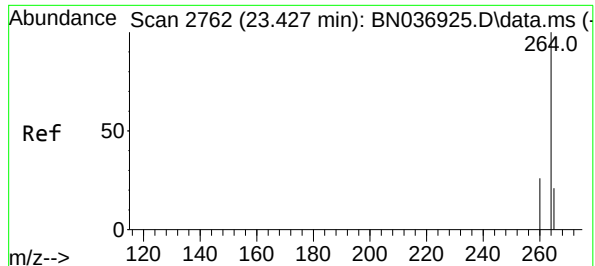
Ion Ratio Lower Upper

149 100

167 25.9 21.0 31.6

279 2.9 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.427 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

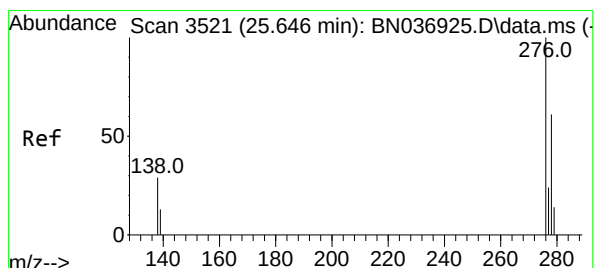
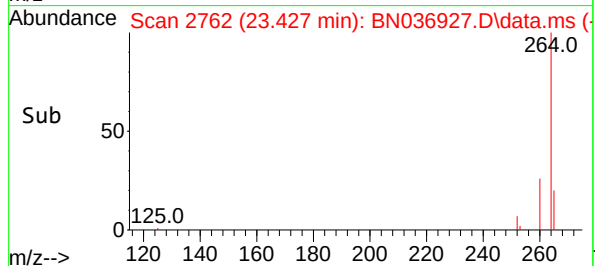
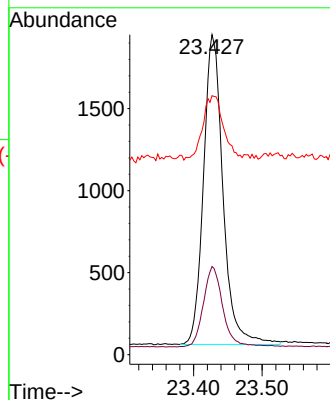
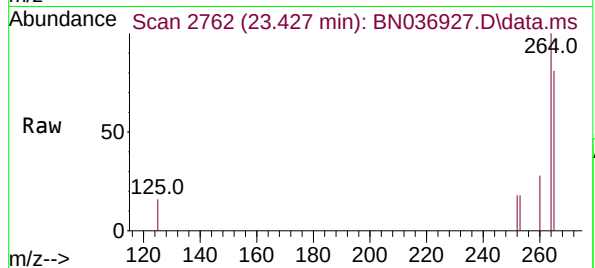
Tgt Ion:264 Resp: 3734

Ion Ratio Lower Upper

264 100

260 27.5 22.2 33.2

265 80.9 65.8 98.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.681 ng

RT: 25.643 min Scan# 3520

Delta R.T. -0.003 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

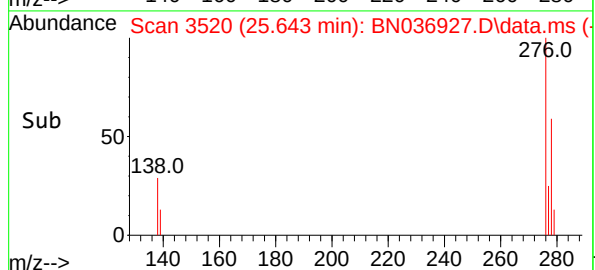
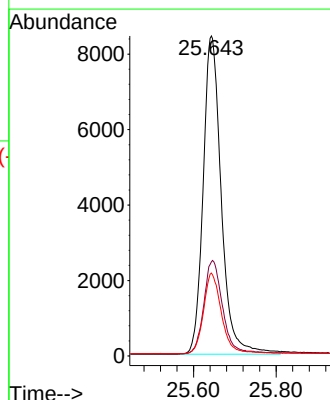
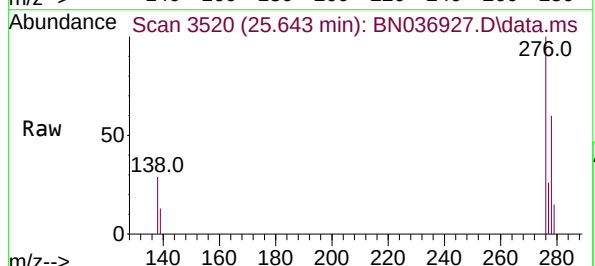
Tgt Ion:276 Resp: 25695

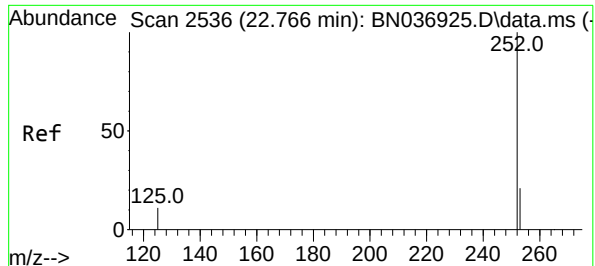
Ion Ratio Lower Upper

276 100

138 30.1 23.0 34.6

277 25.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 1.733 ng

RT: 22.763 min Scan# 2535

Delta R.T. -0.003 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

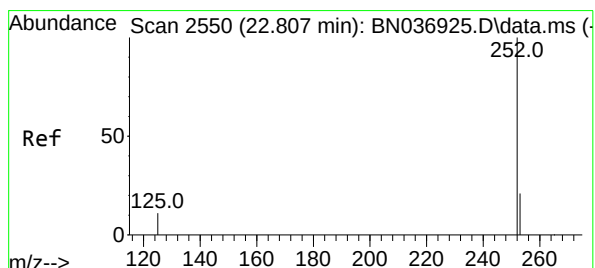
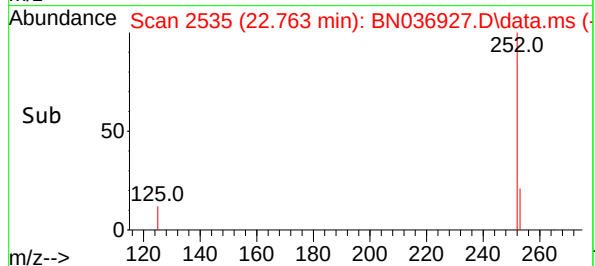
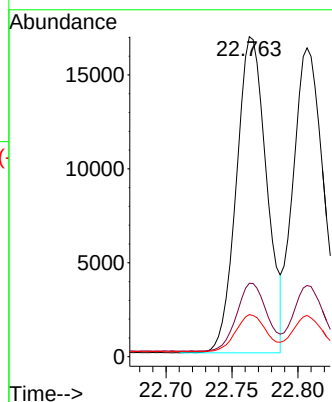
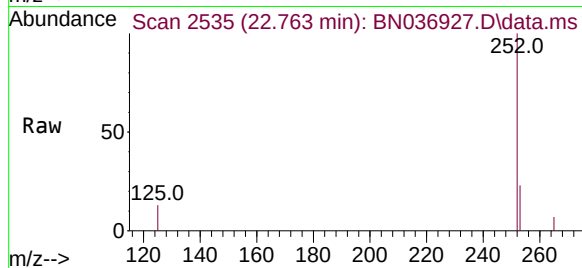
Tgt Ion:252 Resp: 26826

Ion Ratio Lower Upper

252 100

253 23.0 22.1 33.1

125 13.1 14.2 21.2#



#38

Benzo(k)fluoranthene

Concen: 1.730 ng

RT: 22.807 min Scan# 2550

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

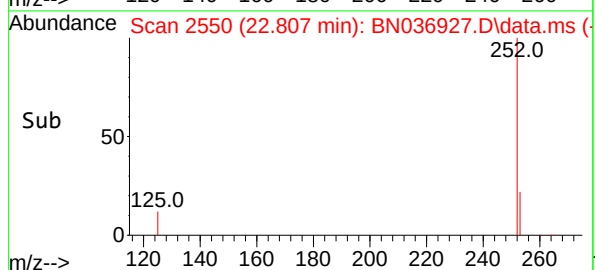
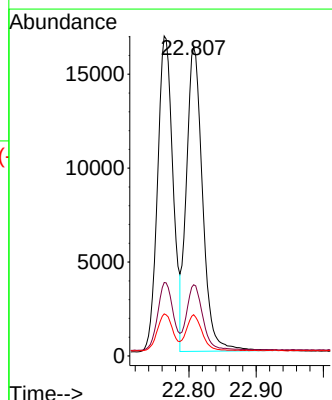
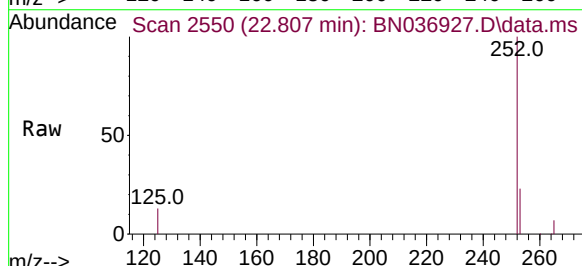
Tgt Ion:252 Resp: 27065

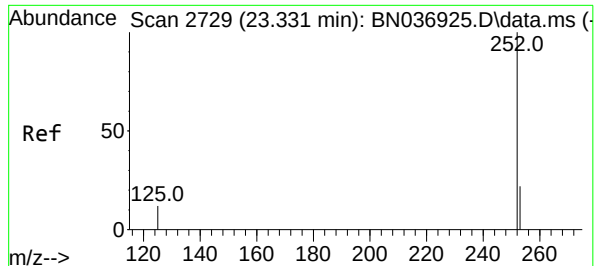
Ion Ratio Lower Upper

252 100

253 23.1 22.8 34.2

125 13.4 14.2 21.2#





#39

Benzo(a)pyrene

Concen: 1.712 ng

RT: 23.330 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

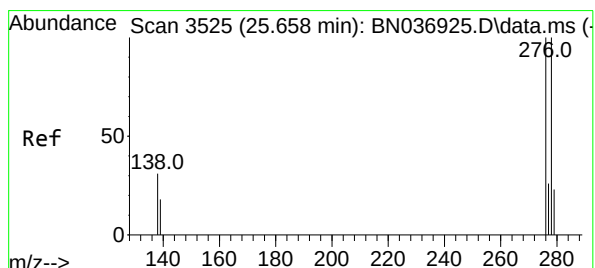
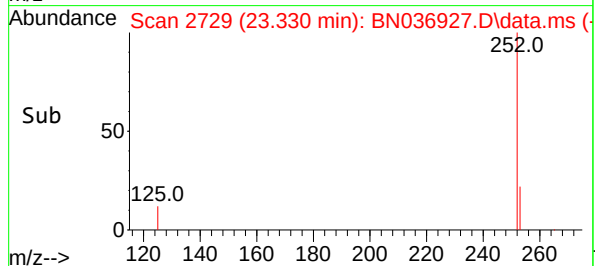
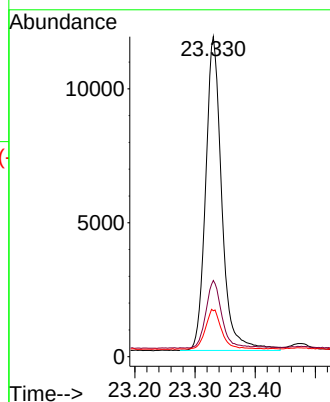
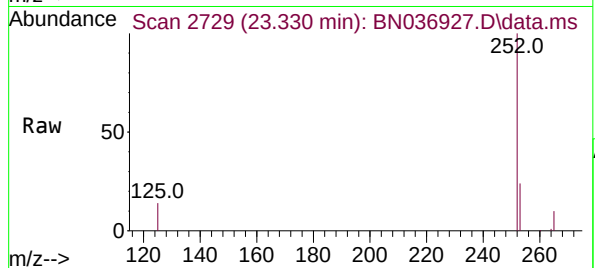
Tgt Ion:252 Resp: 21844

Ion Ratio Lower Upper

252 100

253 23.8 25.9 38.9#

125 14.4 17.4 26.0#



#40

Dibenzo(a,h)anthracene

Concen: 1.685 ng

RT: 25.658 min Scan# 3525

Delta R.T. -0.000 min

Lab File: BN036927.D

Acq: 28 Apr 2025 14:00

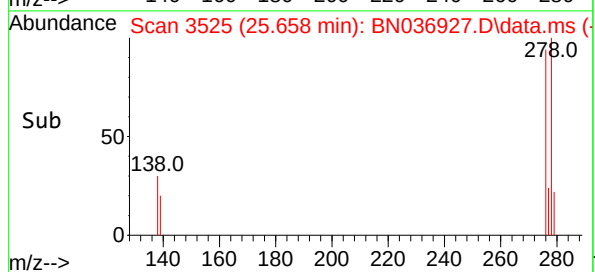
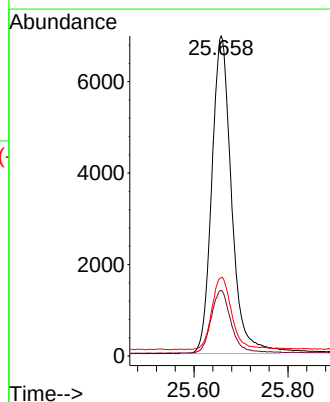
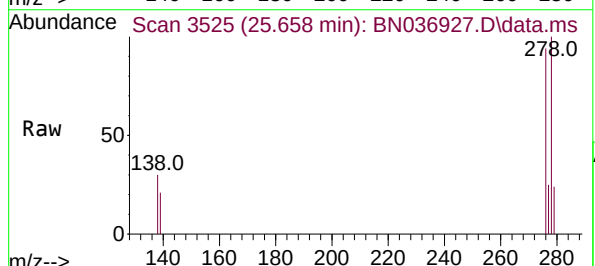
Tgt Ion:278 Resp: 20274

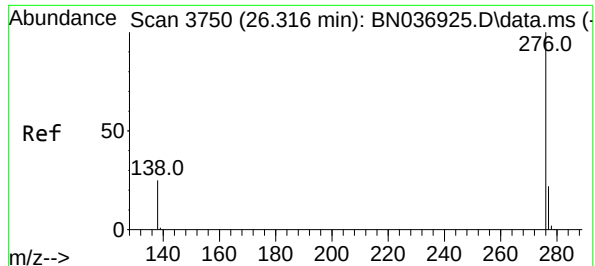
Ion Ratio Lower Upper

278 100

139 20.5 17.4 26.2

279 24.5 24.9 37.3#





#41

Benzo(g,h,i)perylene

Concen: 1.659 ng

RT: 26.324 min Scan# 31

Delta R.T. 0.009 min

Lab File: BN036927.D

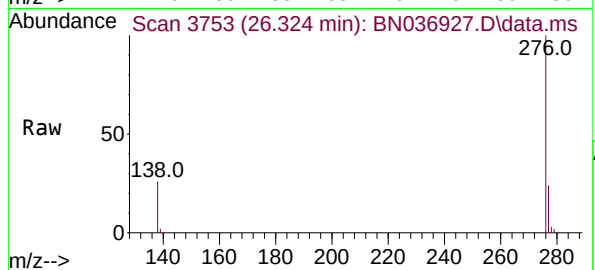
Acq: 28 Apr 2025 14:00

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



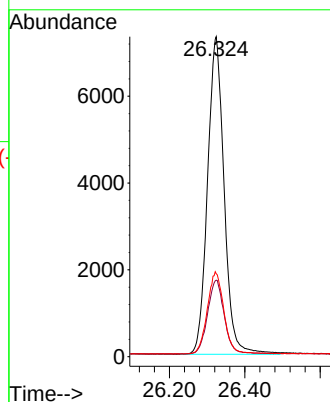
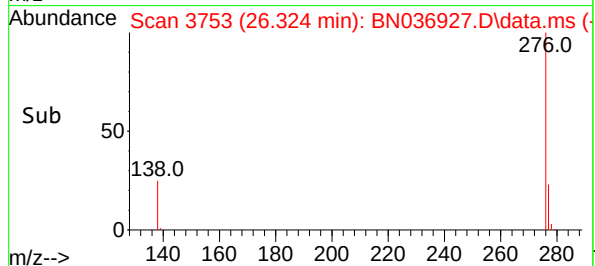
Tgt Ion:276 Resp: 22323

Ion Ratio Lower Upper

276 100

277 23.9 20.2 30.2

138 26.0 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036928.D
 Acq On : 28 Apr 2025 14:36
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Apr 28 15:14:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:11:09 2025
 Response via : Initial Calibration

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

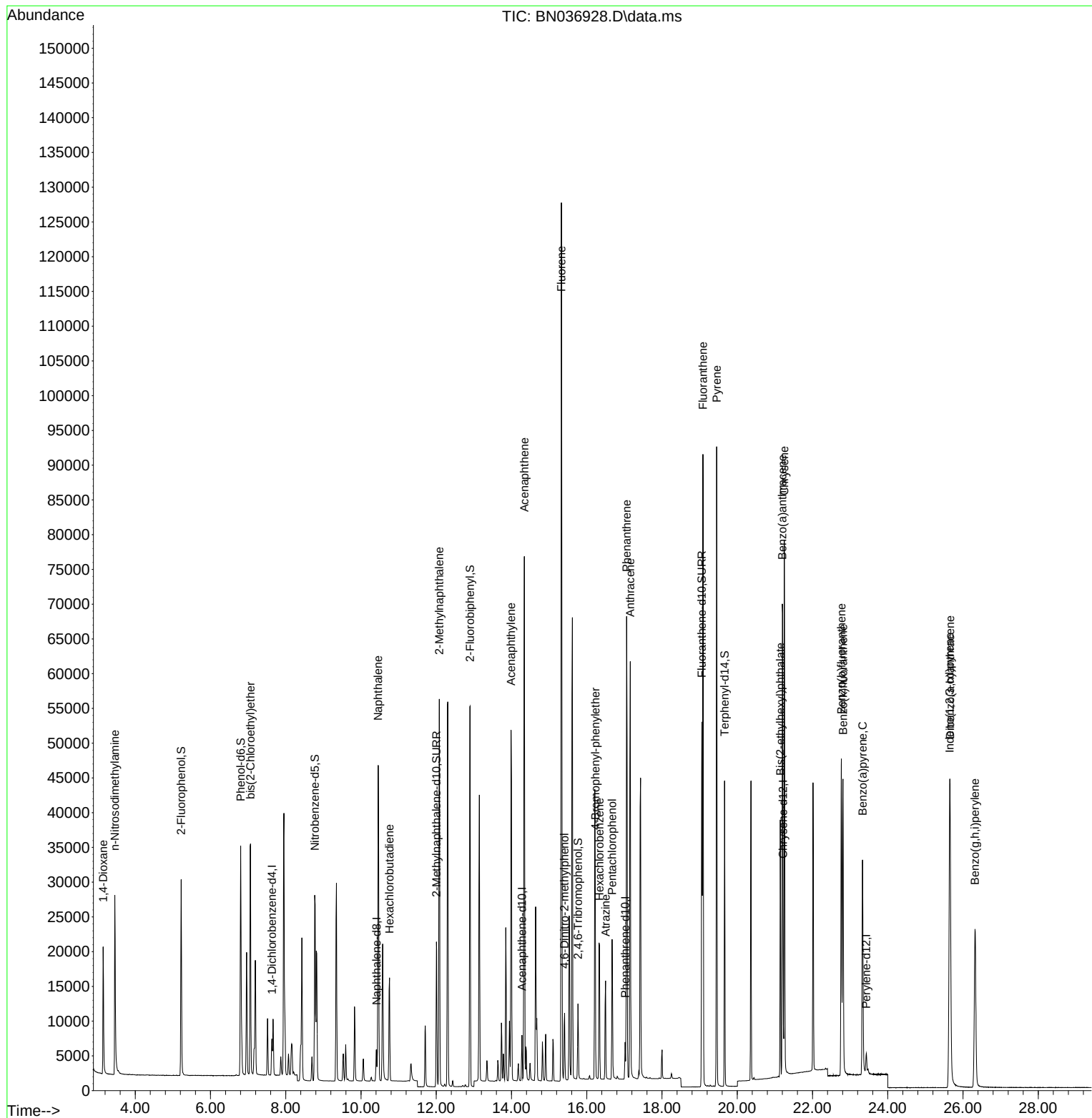
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2400	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	5910	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3394	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	6361	0.400	ng	0.00
29) Chrysene-d12	21.216	240	4896	0.400	ng	0.00
35) Perylene-d12	23.430	264	3763	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	18856	3.045	ng	0.00
5) Phenol-d6	6.802	99	24093	3.194	ng	0.00
8) Nitrobenzene-d5	8.771	82	20418	3.326	ng	-0.01
11) 2-Methylnaphthalene-d10	12.006	152	27198	3.319	ng	0.00
14) 2,4,6-Tribromophenol	15.768	330	4998	3.360	ng	0.00
15) 2-Fluorobiphenyl	12.899	172	53914	3.285	ng	0.00
27) Fluoranthene-d10	19.059	212	53576	3.290	ng	0.00
31) Terphenyl-d14	19.663	244	37287	3.200	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.148	88	9383	3.096	ng	96
3) n-Nitrosodimethylamine	3.458	42	18278	3.122	ng	# 99
6) bis(2-Chloroethyl)ether	7.062	93	22311	3.183	ng	99
9) Naphthalene	10.458	128	55337	3.217	ng	98
10) Hexachlorobutadiene	10.757	225	11705	3.121	ng	# 98
12) 2-Methylnaphthalene	12.082	142	36995	3.361	ng	98
16) Acenaphthylene	13.989	152	55247	3.362	ng	100
17) Acenaphthene	14.342	154	35171	3.236	ng	98
18) Fluorene	15.325	166	46714	3.301	ng	99
20) 4,6-Dinitro-2-methylph...	15.411	198	6093	3.823	ng	# 51
21) 4-Bromophenyl-phenylether	16.227	248	13834	3.266	ng	# 94
22) Hexachlorobenzene	16.338	284	14891	3.181	ng	99
23) Atrazine	16.500	200	11521	3.449	ng	# 91
24) Pentachlorophenol	16.674	266	8528	3.511	ng	99
25) Phenanthrene	17.058	178	68482	3.273	ng	99
26) Anthracene	17.158	178	64181	3.430	ng	100
28) Fluoranthene	19.087	202	77836	3.358	ng	99
30) Pyrene	19.454	202	77117	3.241	ng	100
32) Benzo(a)anthracene	21.198	228	59092	3.310	ng	97
33) Chrysene	21.251	228	61582	3.149	ng	98
34) Bis(2-ethylhexyl)phtha...	21.144	149	30625	3.002	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.643	276	51906	3.369	ng	98
37) Benzo(b)fluoranthene	22.766	252	52921	3.393	ng	# 89
38) Benzo(k)fluoranthene	22.810	252	53706	3.406	ng	# 88
39) Benzo(a)pyrene	23.331	252	43554	3.387	ng	# 83
40) Dibenzo(a,h)anthracene	25.655	278	41500	3.423	ng	# 91
41) Benzo(g,h,i)perylene	26.319	276	44250	3.263	ng	98

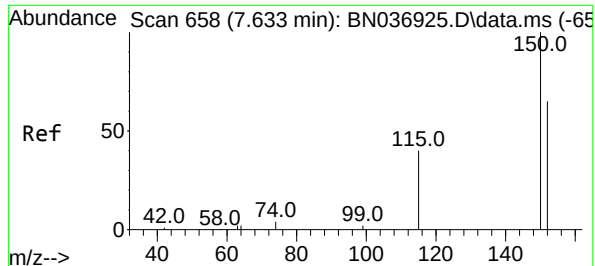
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036928.D
Acq On : 28 Apr 2025 14:36
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Apr 28 15:14:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:11:09 2025
Response via : Initial Calibration

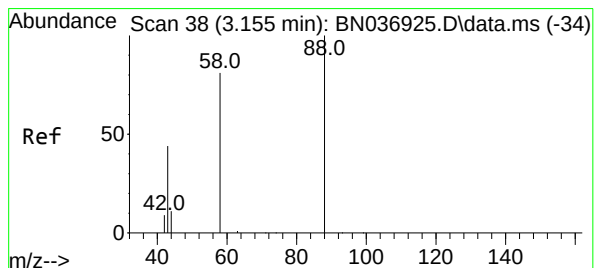
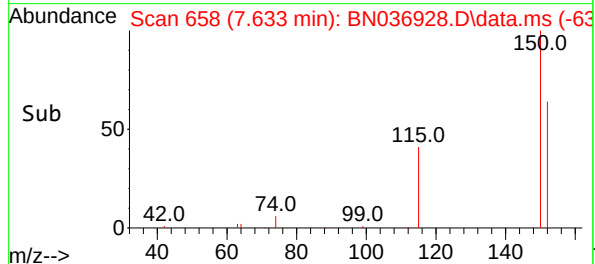
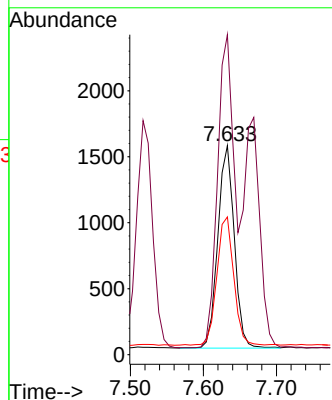
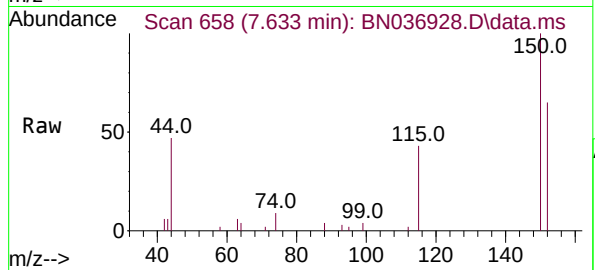




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

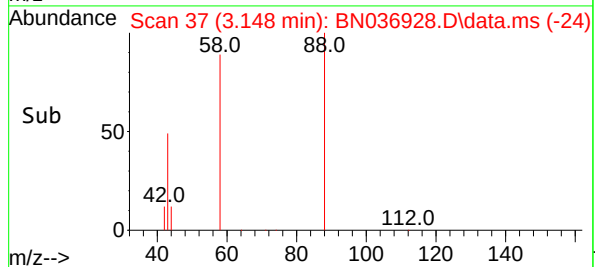
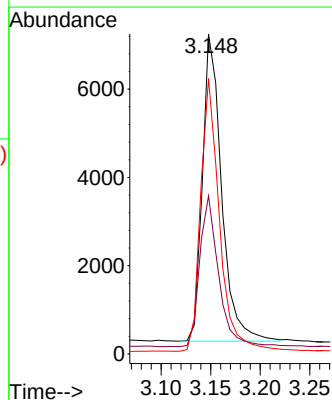
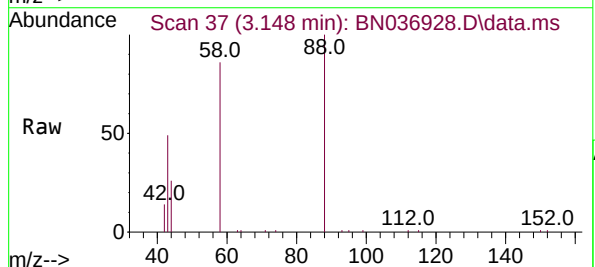
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

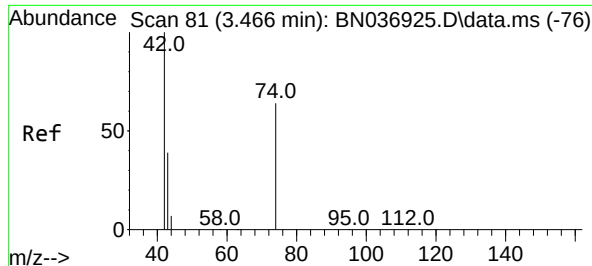
Tgt Ion:152 Resp: 2400
Ion Ratio Lower Upper
152 100
150 153.0 121.1 181.7
115 65.9 51.8 77.6



#2
1,4-Dioxane
Concen: 3.096 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion: 88 Resp: 9383
Ion Ratio Lower Upper
88 100
43 48.3 37.9 56.9
58 87.1 65.8 98.6

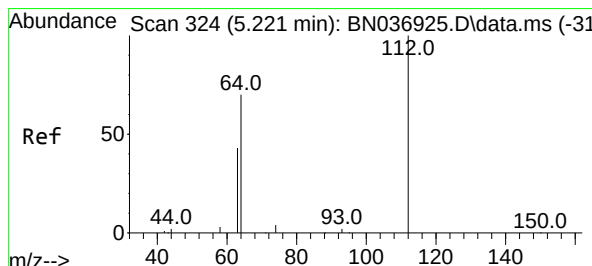
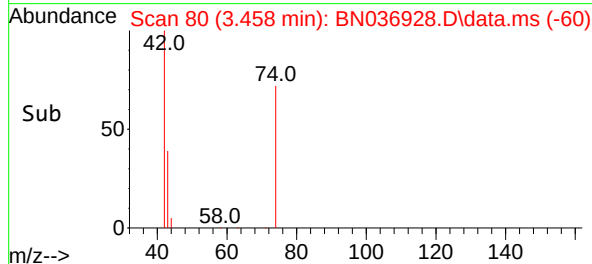
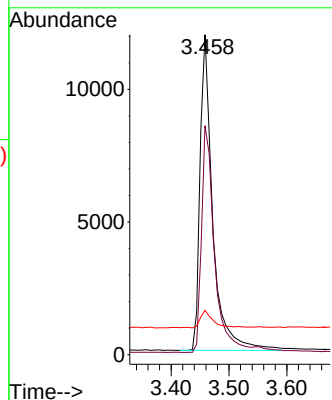
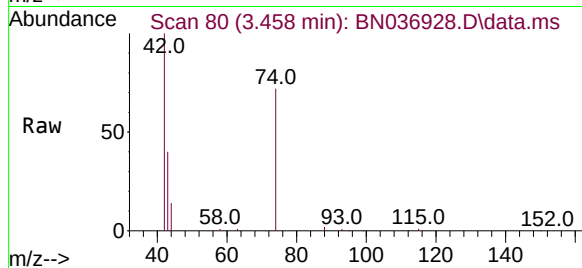




#3
n-Nitrosodimethylamine
Concen: 3.122 ng
RT: 3.458 min Scan# 80
Delta R.T. -0.007 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

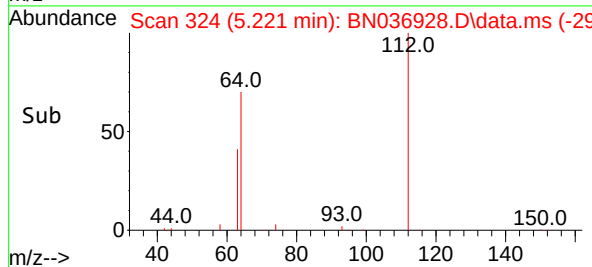
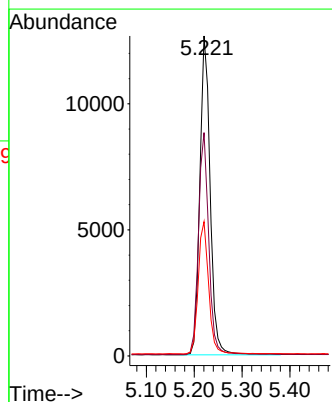
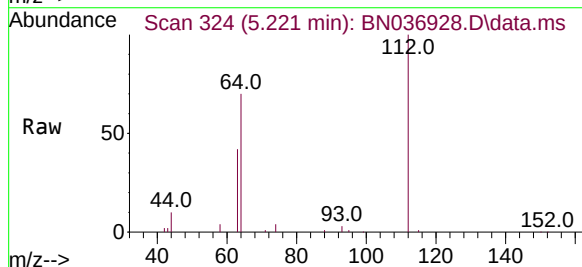
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

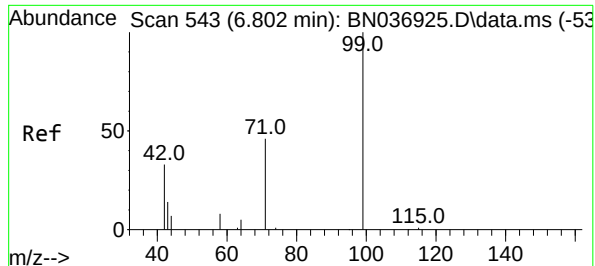
Tgt Ion: 42 Resp: 18278
Ion Ratio Lower Upper
42 100
74 74.8 59.9 89.9
44 5.4 7.5 11.3#



#4
2-Fluorophenol
Concen: 3.045 ng
RT: 5.221 min Scan# 324
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion: 112 Resp: 18856
Ion Ratio Lower Upper
112 100
64 69.6 55.7 83.5
63 42.0 33.9 50.9





#5

Phenol-d6

Concen: 3.194 ng

RT: 6.802 min Scan# 543

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

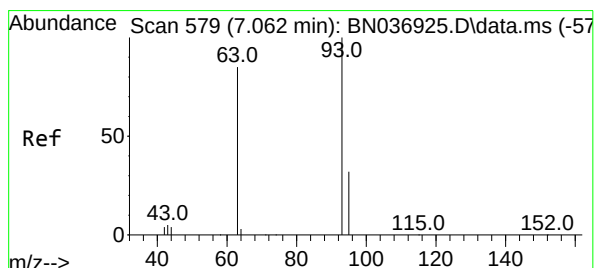
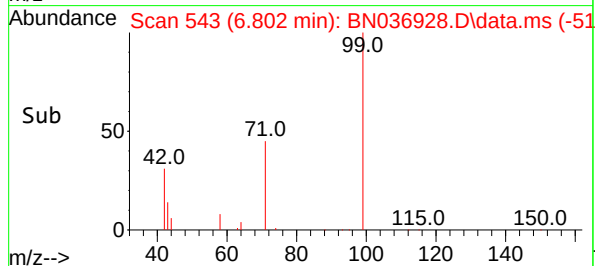
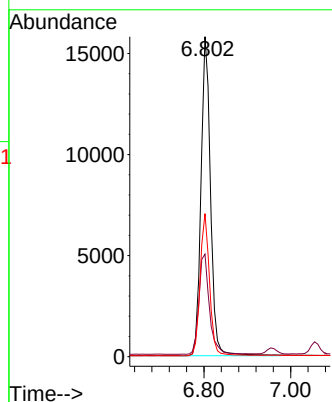
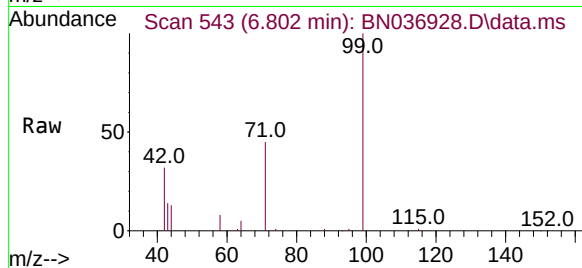
Tgt Ion: 99 Resp: 24093

Ion Ratio Lower Upper

99 100

42 35.0 29.6 44.4

71 44.3 36.0 54.0



#6

bis(2-Chloroethyl)ether

Concen: 3.183 ng

RT: 7.062 min Scan# 579

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

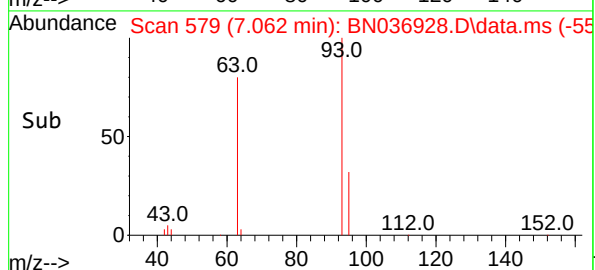
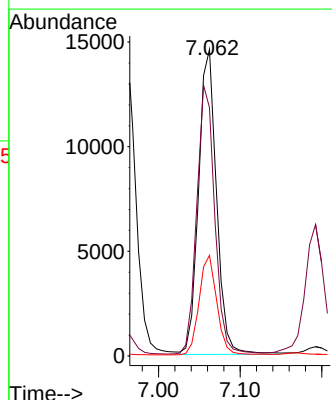
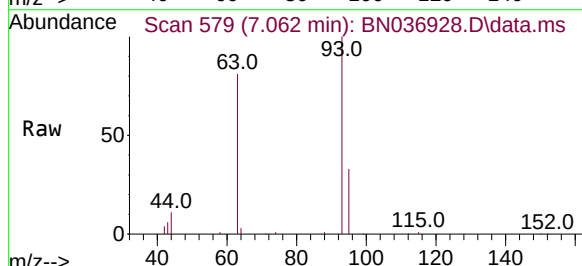
Tgt Ion: 93 Resp: 22311

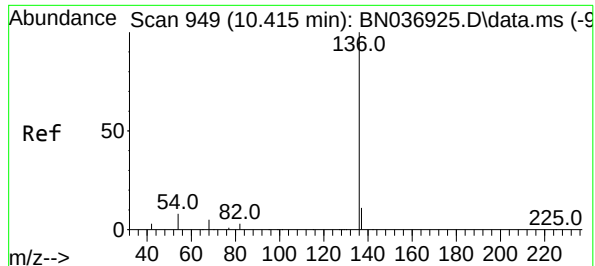
Ion Ratio Lower Upper

93 100

63 87.8 69.0 103.6

95 32.2 25.4 38.0

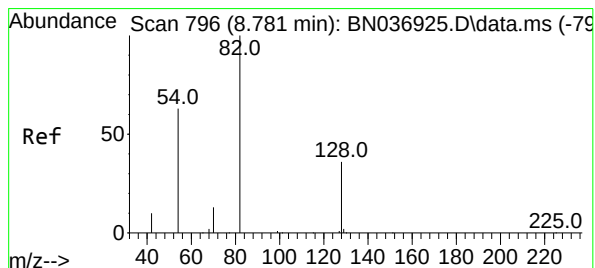
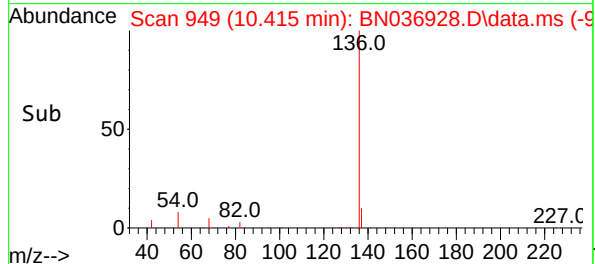
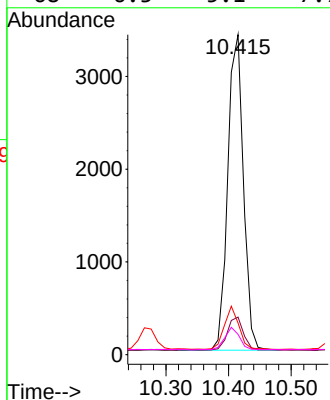
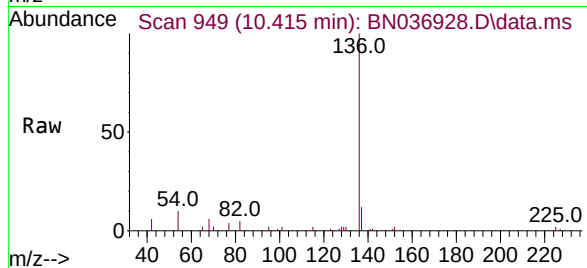




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

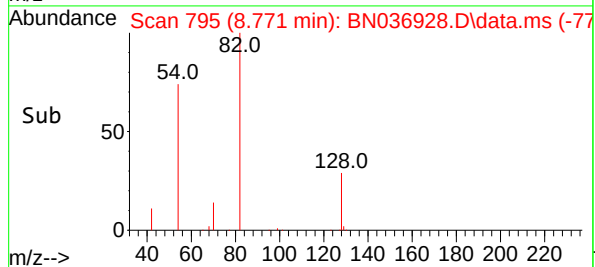
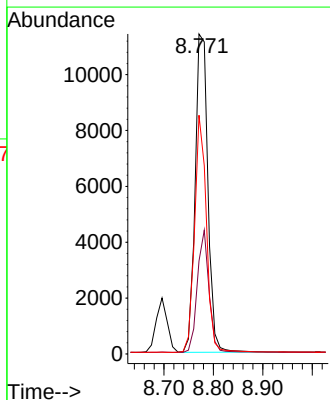
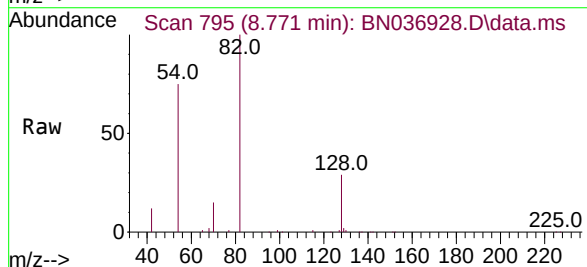
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

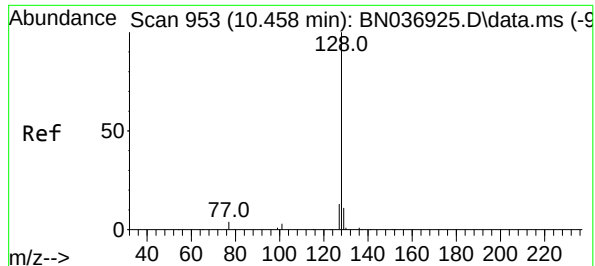
Tgt Ion:136 Resp: 5910
Ion Ratio Lower Upper
136 100
137 11.7 9.7 14.5
54 9.9 8.0 12.0
68 6.3 5.1 7.7



#8
Nitrobenzene-d5
Concen: 3.326 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.011 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion: 82 Resp: 20418
Ion Ratio Lower Upper
82 100
128 29.1 30.7 46.1#
54 74.6 52.1 78.1

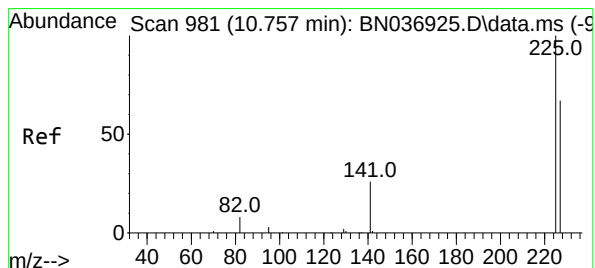
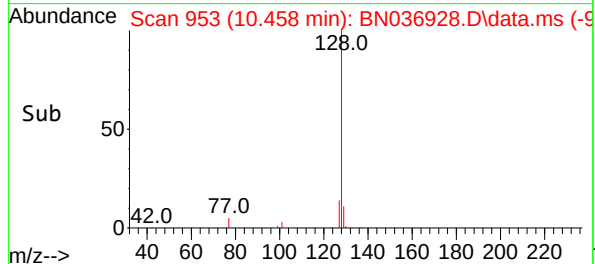
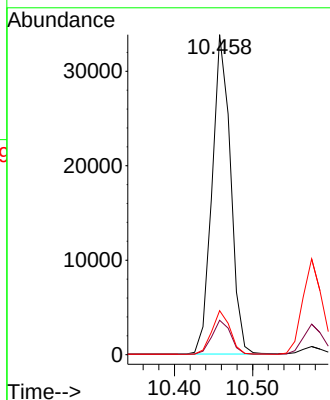
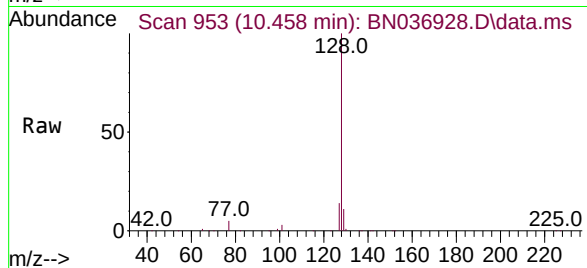




#9
Naphthalene
Concen: 3.217 ng
RT: 10.458 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

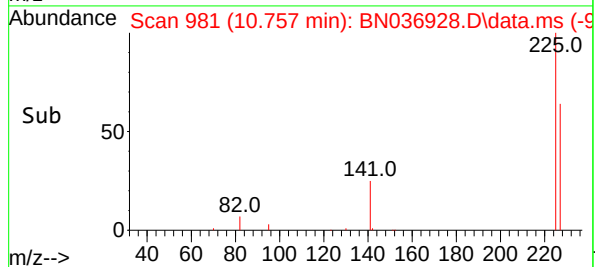
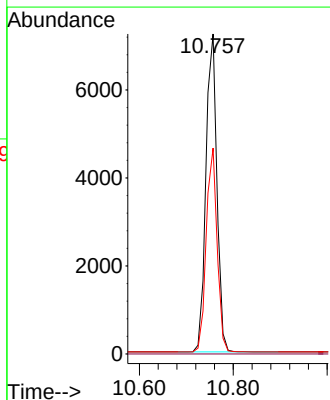
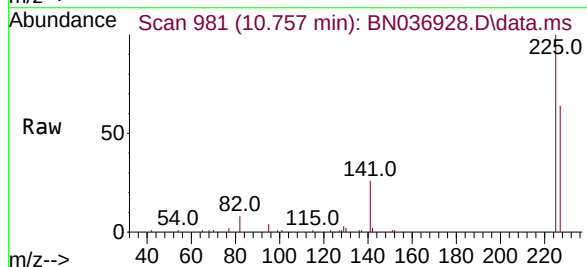
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

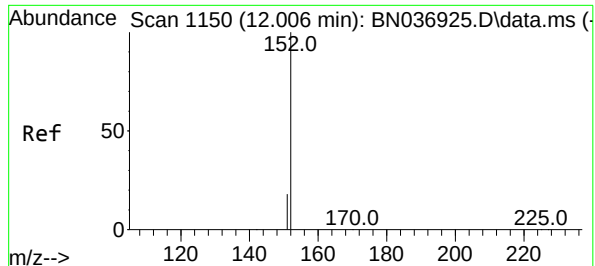
Tgt Ion:128 Resp: 55337
Ion Ratio Lower Upper
128 100
129 10.8 9.8 14.6
127 13.8 11.4 17.2



#10
Hexachlorobutadiene
Concen: 3.121 ng
RT: 10.757 min Scan# 981
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:225 Resp: 11705
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 52.2 78.4

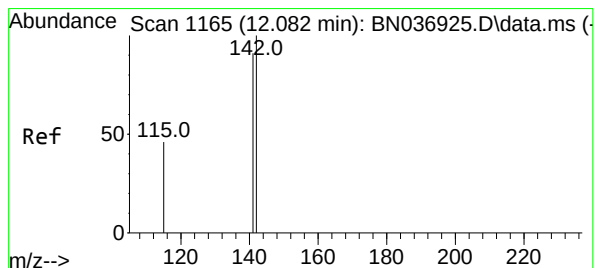
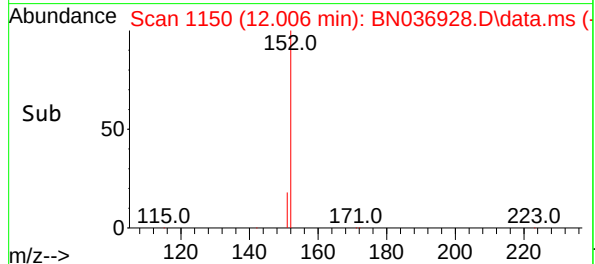
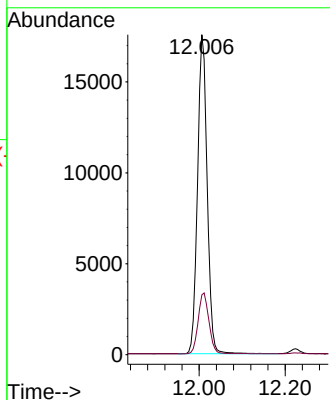
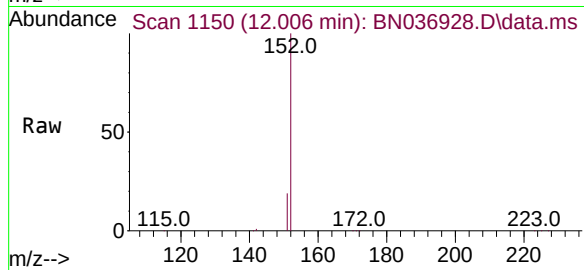




#11
2-Methylnaphthalene-d10
Concen: 3.319 ng
RT: 12.006 min Scan# 1150
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

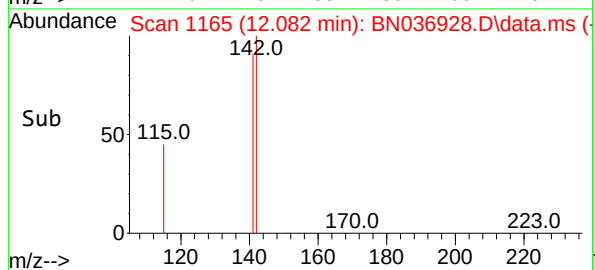
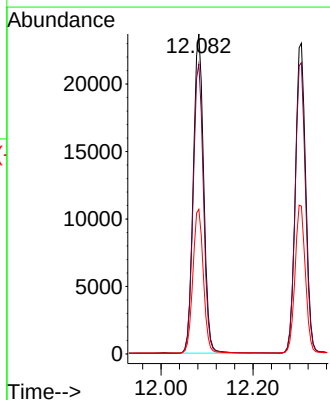
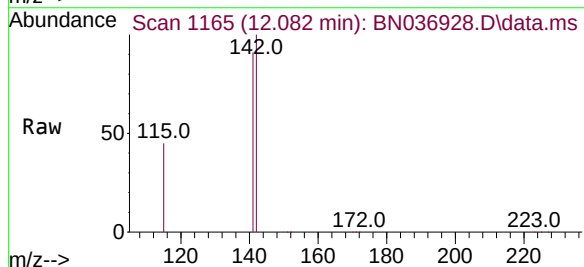
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

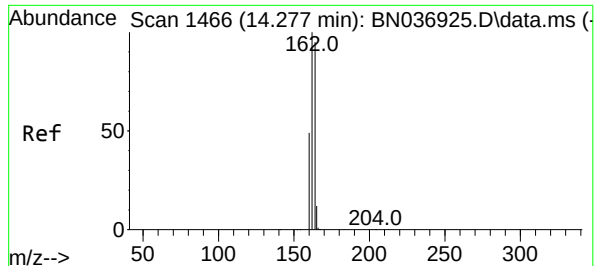
Tgt Ion:152 Resp: 27198
Ion Ratio Lower Upper
152 100
151 21.3 16.9 25.3



#12
2-Methylnaphthalene
Concen: 3.361 ng
RT: 12.082 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:142 Resp: 36995
Ion Ratio Lower Upper
142 100
141 90.6 72.8 109.2
115 45.2 38.2 57.4

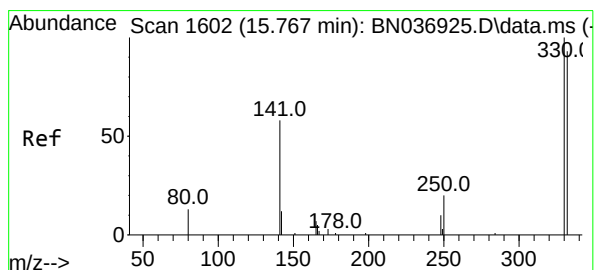
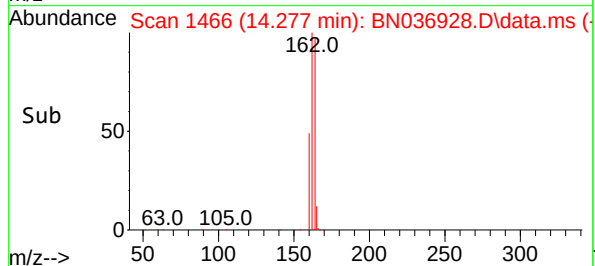
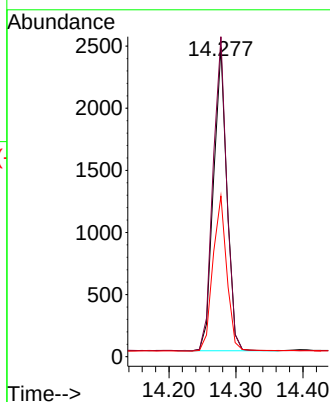
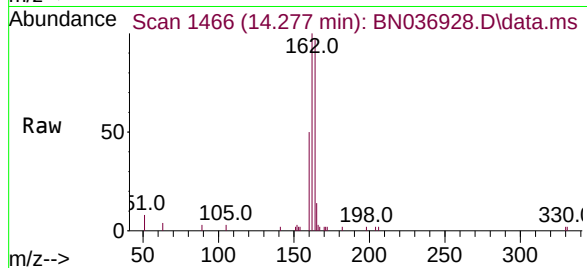




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

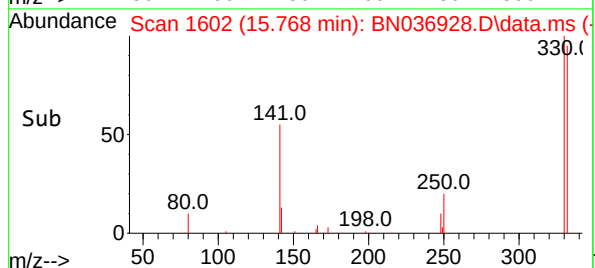
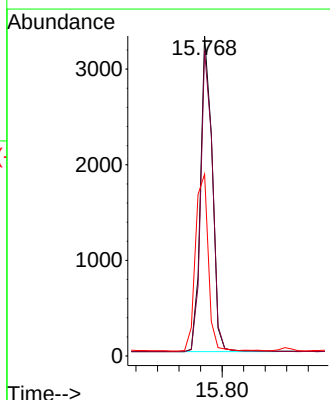
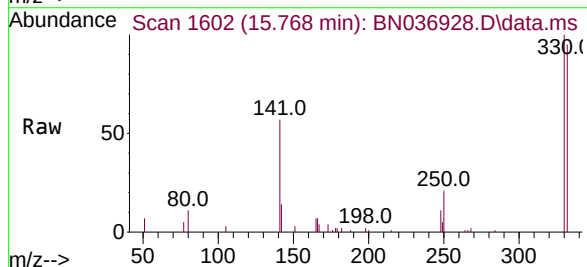
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

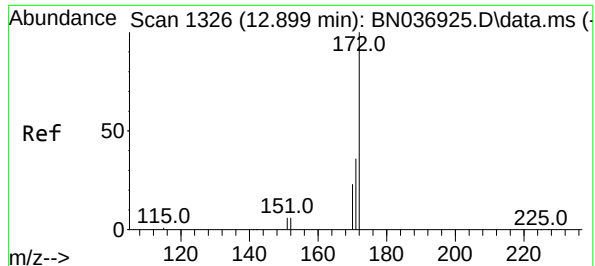
Tgt Ion:164 Resp: 3394
Ion Ratio Lower Upper
164 100
162 103.5 83.8 125.8
160 51.9 42.0 63.0



#14
2,4,6-Tribromophenol
Concen: 3.360 ng
RT: 15.768 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:330 Resp: 4998
Ion Ratio Lower Upper
330 100
332 96.6 76.3 114.5
141 61.6 45.4 68.2

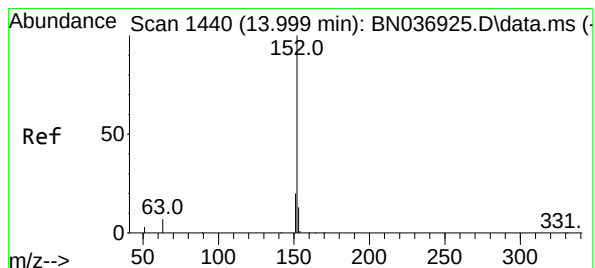
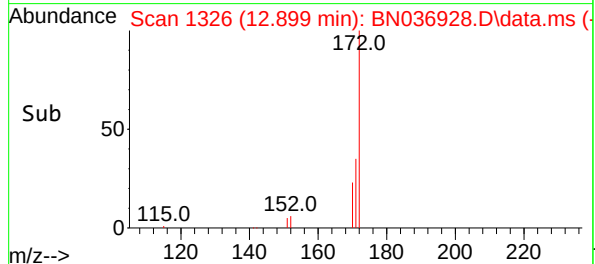
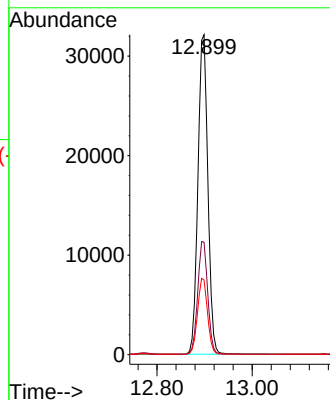
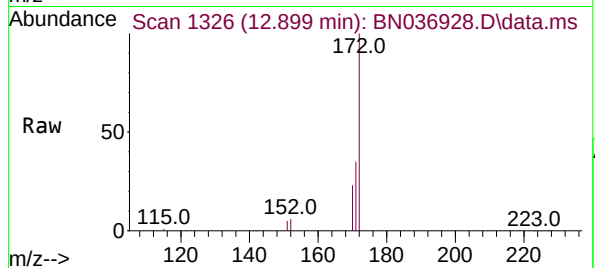




#15
2-Fluorobiphenyl
Concen: 3.285 ng
RT: 12.899 min Scan# 1438
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

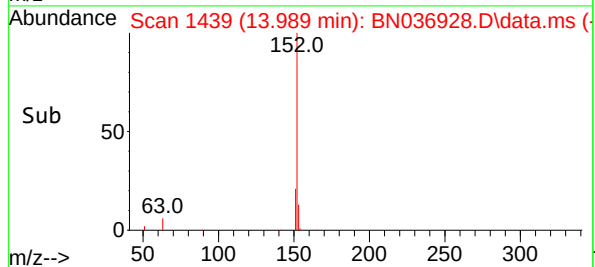
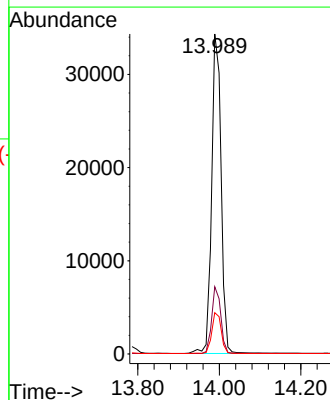
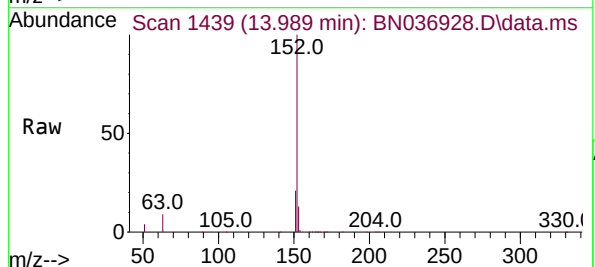
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

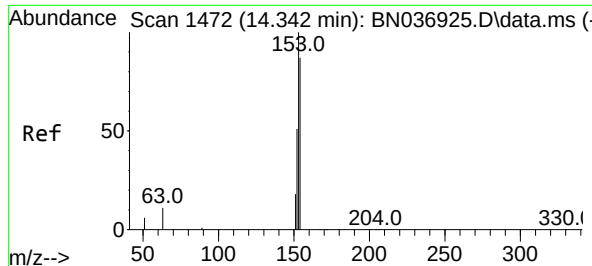
Tgt Ion:172 Resp: 53914
Ion Ratio Lower Upper
172 100
171 35.2 29.4 44.0
170 23.4 19.4 29.0



#16
Acenaphthylene
Concen: 3.362 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:152 Resp: 55247
Ion Ratio Lower Upper
152 100
151 20.1 16.0 24.0
153 12.8 10.2 15.2

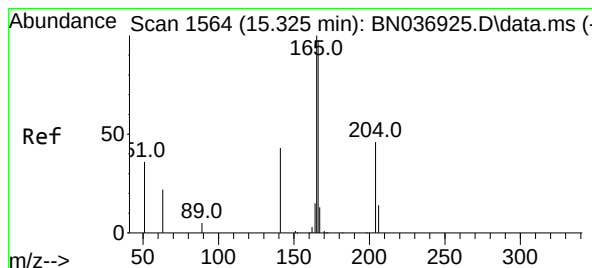
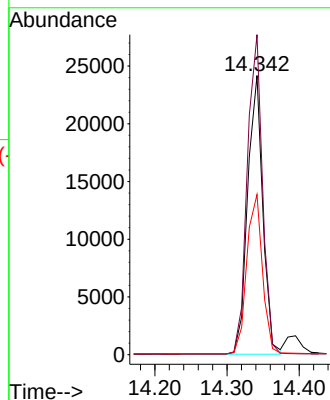
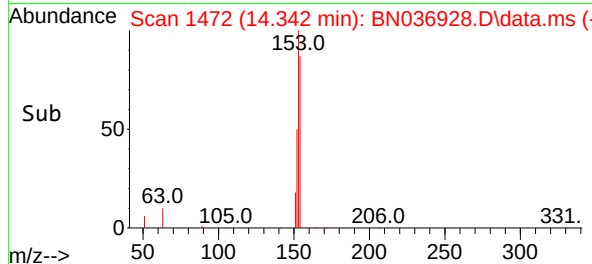
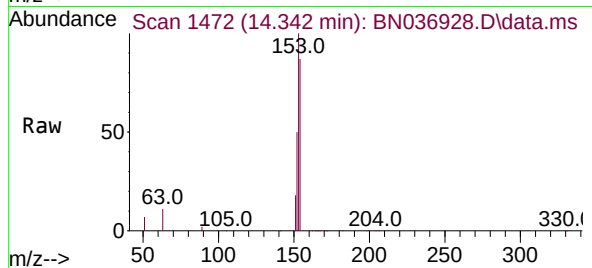




#17
Acenaphthene
Concen: 3.236 ng
RT: 14.342 min Scan# 1472
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

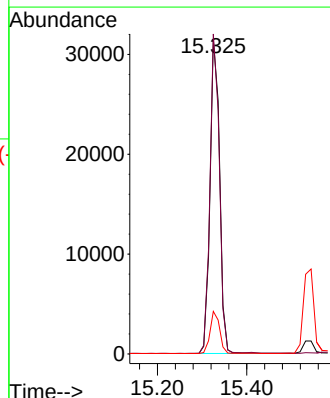
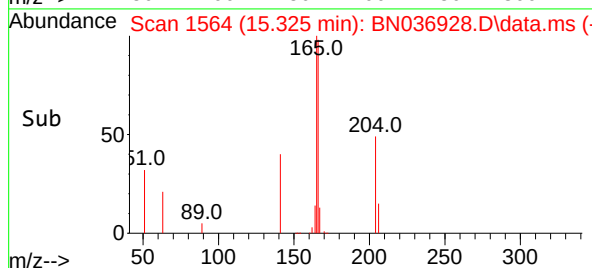
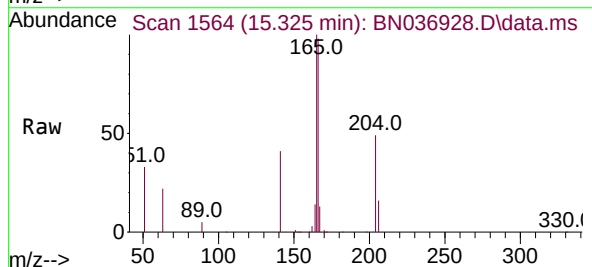
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

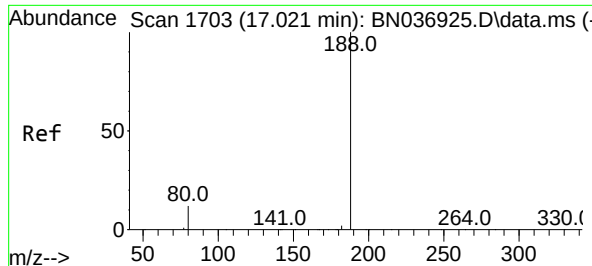
Tgt Ion:154 Resp: 35171
Ion Ratio Lower Upper
154 100
153 115.7 93.4 140.2
152 59.7 49.5 74.3



#18
Fluorene
Concen: 3.301 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:166 Resp: 46714
Ion Ratio Lower Upper
166 100
165 99.7 80.8 121.2
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

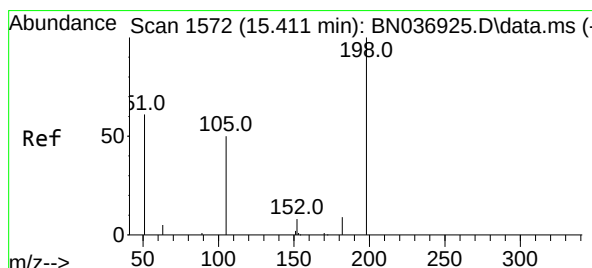
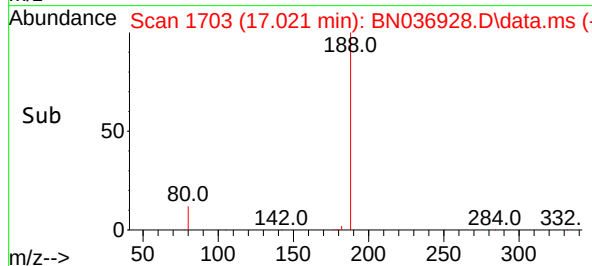
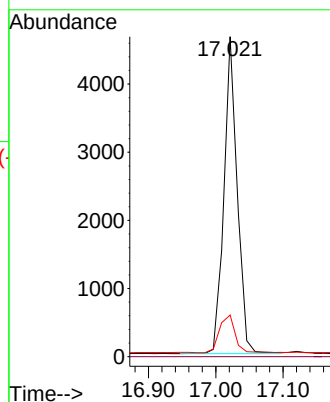
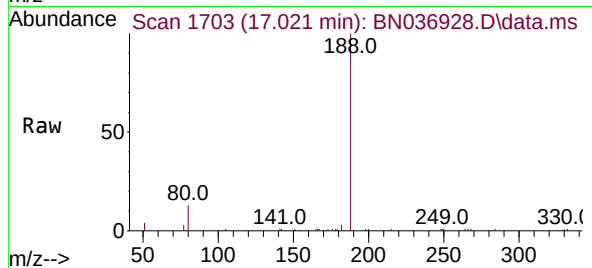
Tgt Ion:188 Resp: 6361

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.0 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 3.823 ng

RT: 15.411 min Scan# 1572

Delta R.T. -0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

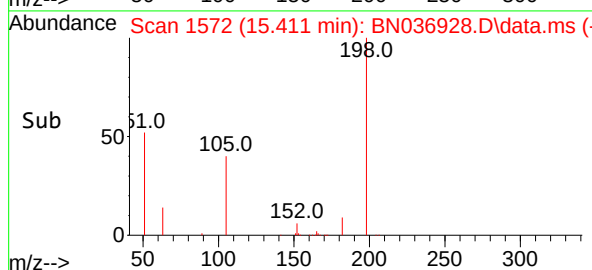
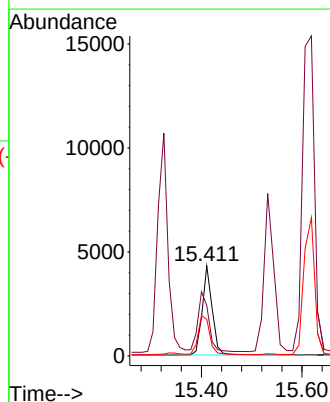
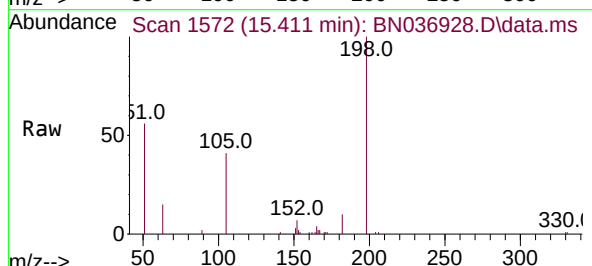
Tgt Ion:198 Resp: 6093

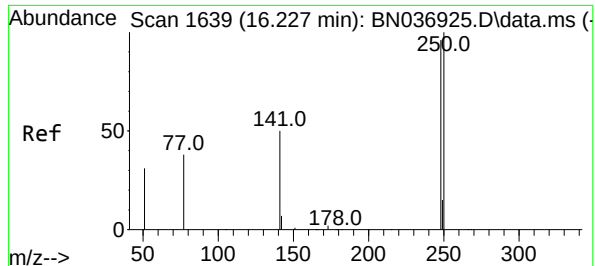
Ion Ratio Lower Upper

198 100

51 56.0 97.9 146.9#

105 40.7 50.0 75.0#

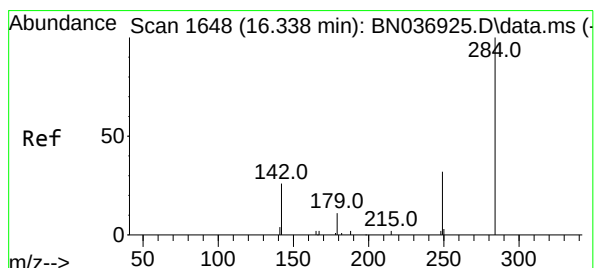
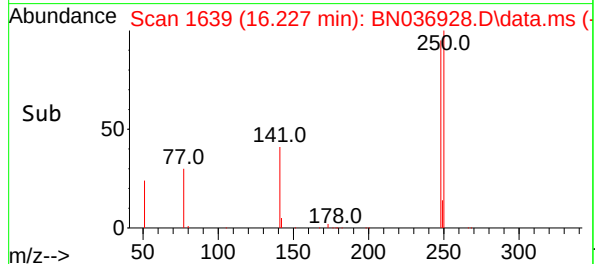
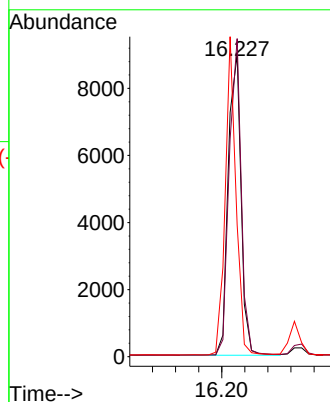
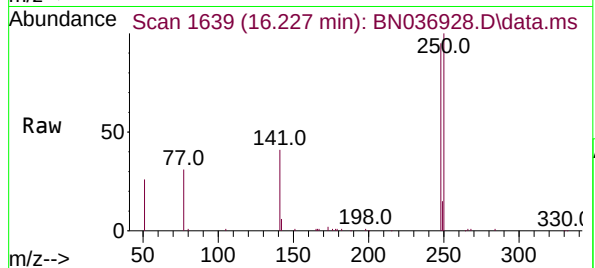




#21
4-Bromophenyl-phenylether
Concen: 3.266 ng
RT: 16.227 min Scan# 1639
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

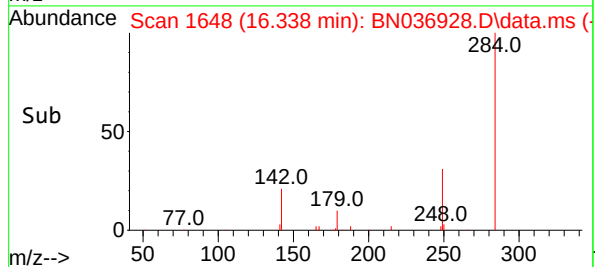
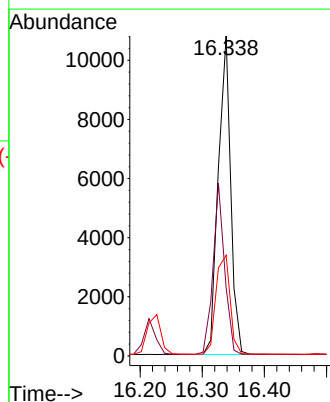
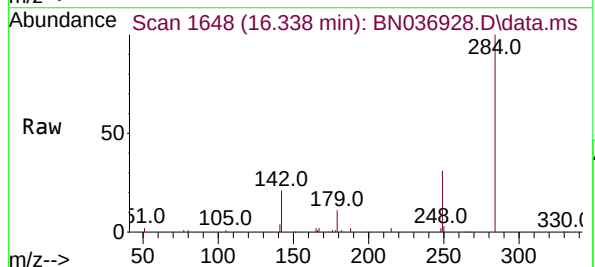
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

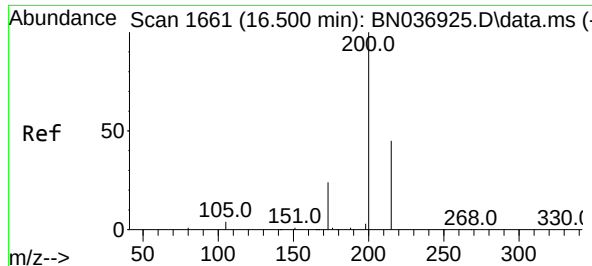
Tgt Ion	Ratio	Lower	Upper
248	100		
250	105.4	83.7	125.5
141	43.6	43.8	65.8



#22
Hexachlorobenzene
Concen: 3.181 ng
RT: 16.338 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion	Ratio	Lower	Upper
284	100		
142	50.5	40.0	60.0
249	35.8	28.2	42.2

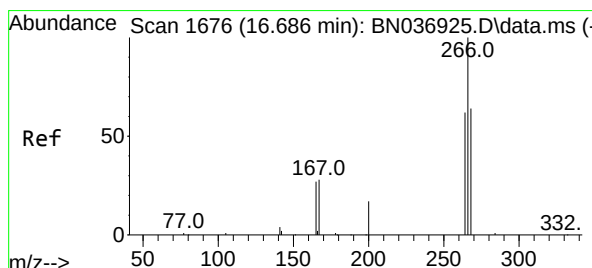
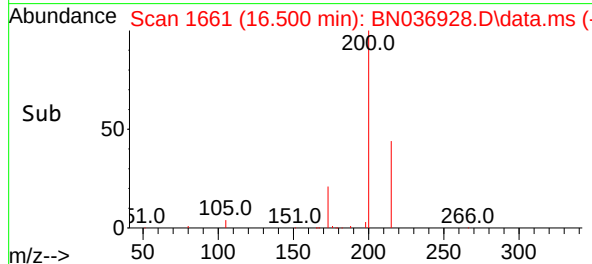
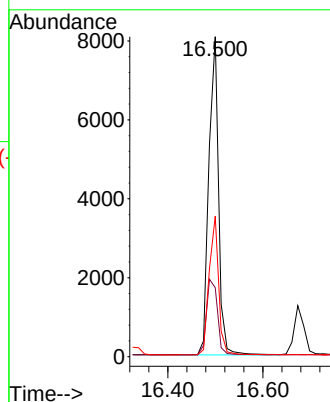
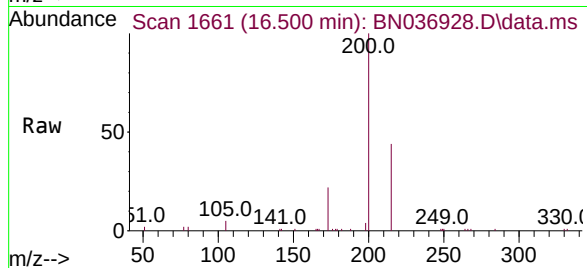




#23
Atrazine
Concen: 3.449 ng
RT: 16.500 min Scan# 1661
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

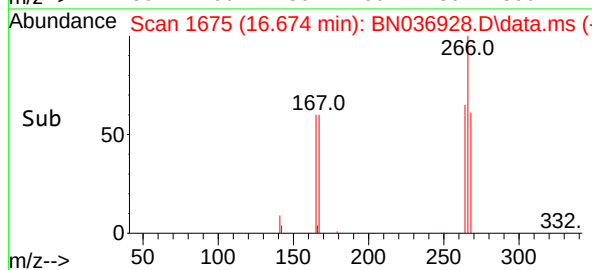
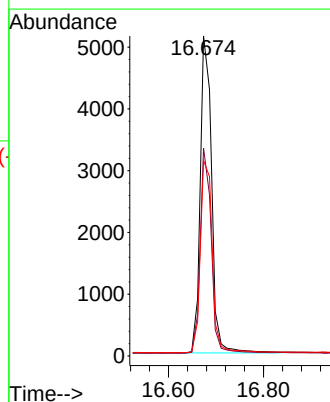
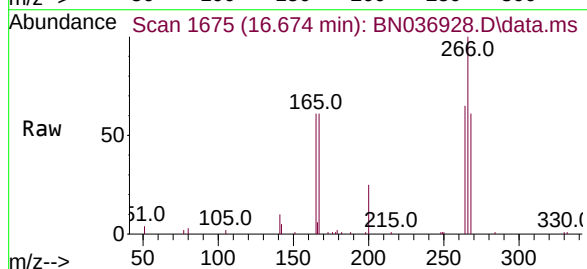
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

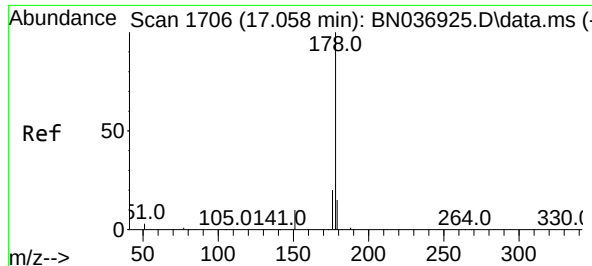
Tgt Ion	Ratio	Lower	Upper
200	100		
173	21.6	22.4	33.6#
215	43.9	38.6	57.8



#24
Pentachlorophenol
Concen: 3.511 ng
RT: 16.674 min Scan# 1675
Delta R.T. -0.012 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.8	49.9	74.9
268	63.7	52.2	78.4

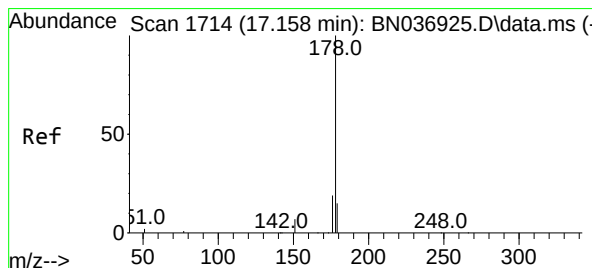
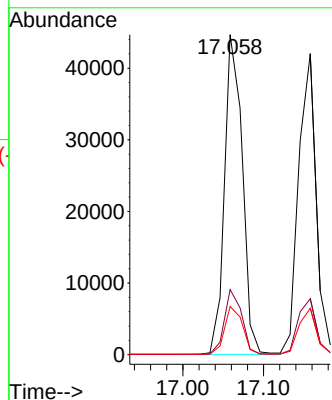
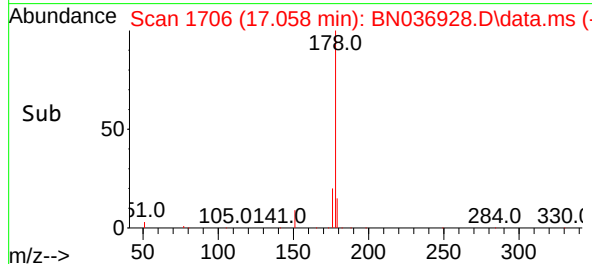
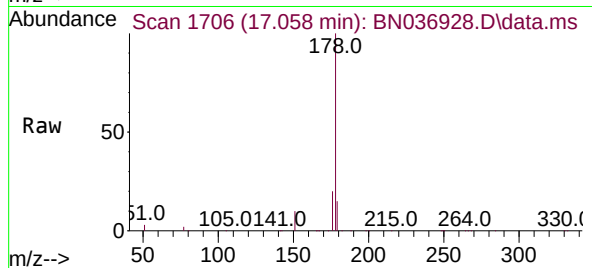




#25
Phenanthrene
Concen: 3.273 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

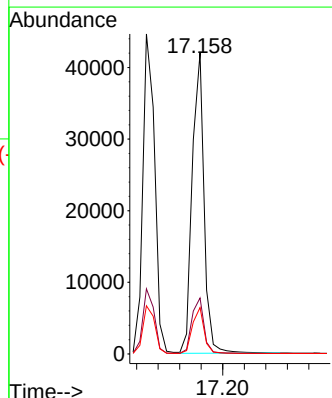
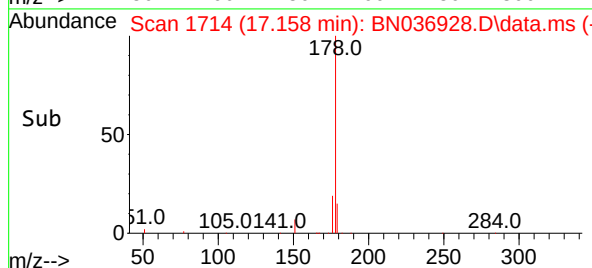
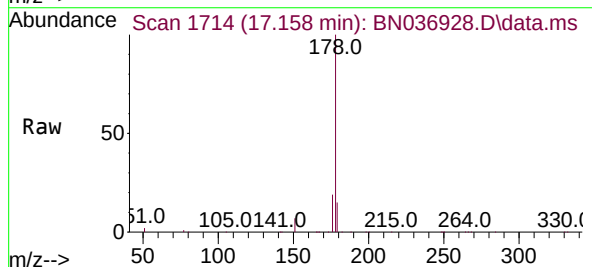
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

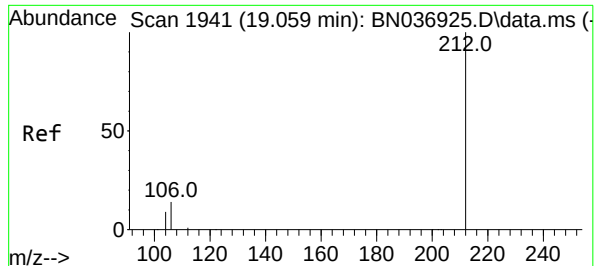
Tgt Ion:178 Resp: 68482
Ion Ratio Lower Upper
178 100
176 19.8 15.7 23.5
179 15.1 12.4 18.6



#26
Anthracene
Concen: 3.430 ng
RT: 17.158 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:178 Resp: 64181
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.2 12.1 18.1





#27

Fluoranthene-d10

Concen: 3.290 ng

RT: 19.059 min Scan# 1941

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

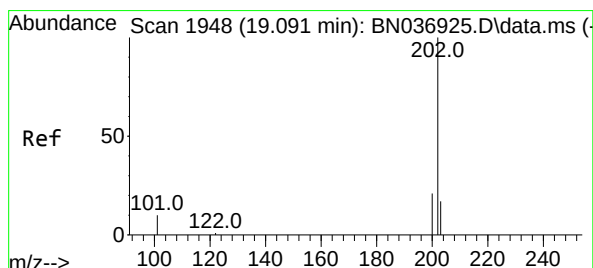
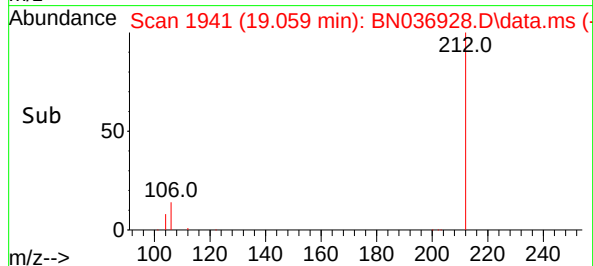
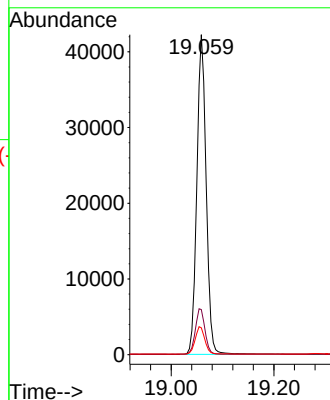
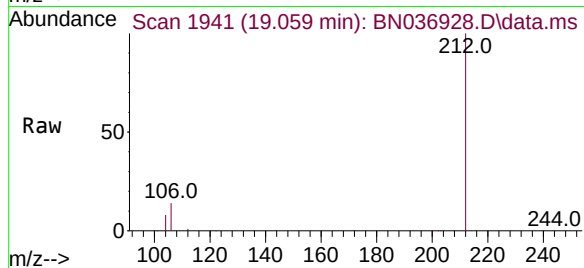
Tgt Ion:212 Resp: 53576

Ion Ratio Lower Upper

212 100

106 14.7 11.6 17.4

104 8.8 7.0 10.4



#28

Fluoranthene

Concen: 3.358 ng

RT: 19.087 min Scan# 1947

Delta R.T. -0.005 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

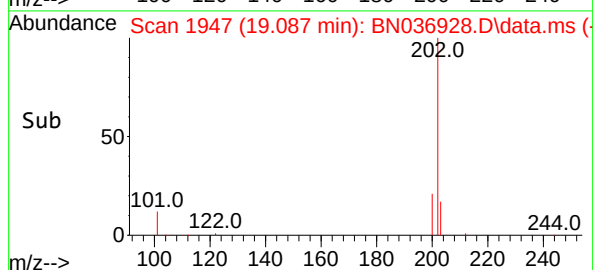
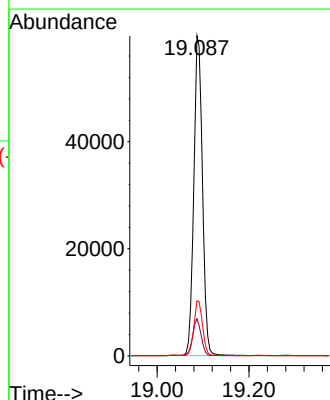
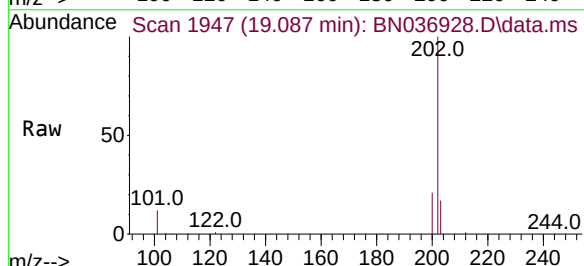
Tgt Ion:202 Resp: 77836

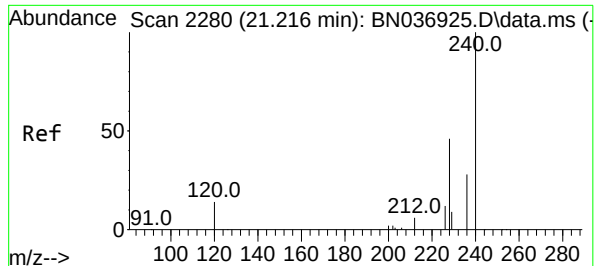
Ion Ratio Lower Upper

202 100

101 11.5 8.5 12.7

203 17.2 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.216 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

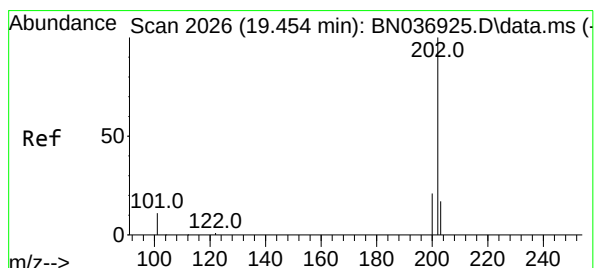
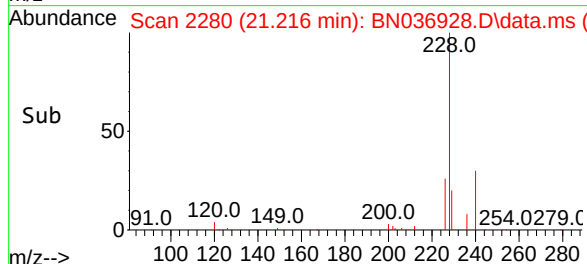
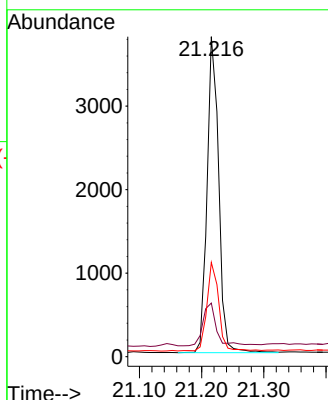
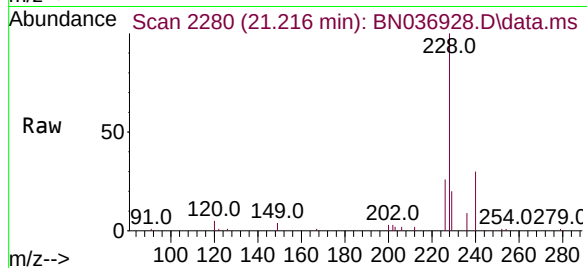
Tgt Ion:240 Resp: 4896

Ion Ratio Lower Upper

240 100

120 16.7 14.1 21.1

236 29.5 23.8 35.8



#30

Pyrene

Concen: 3.241 ng

RT: 19.454 min Scan# 2026

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

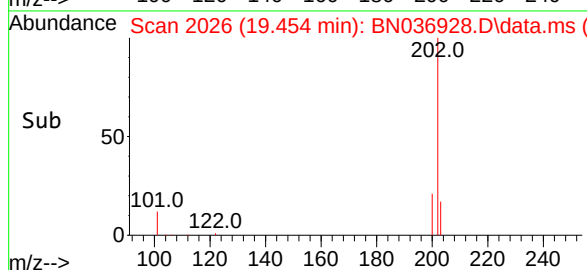
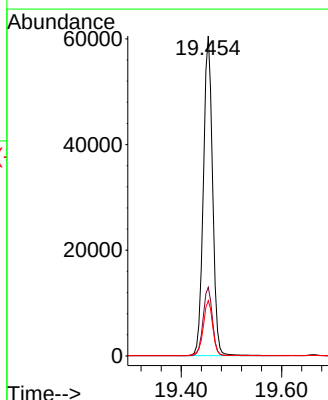
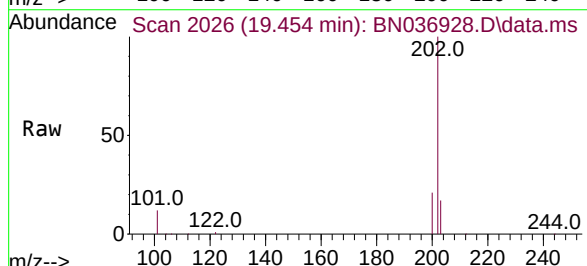
Tgt Ion:202 Resp: 77117

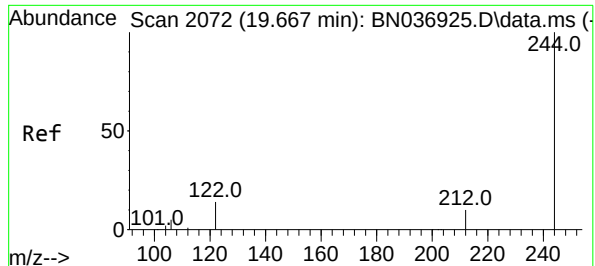
Ion Ratio Lower Upper

202 100

200 21.5 17.0 25.6

203 17.7 14.0 21.0

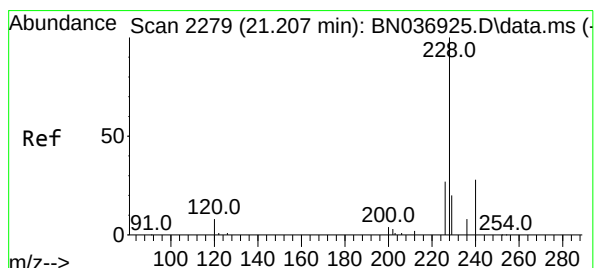
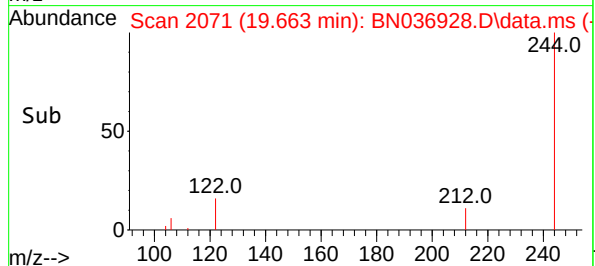
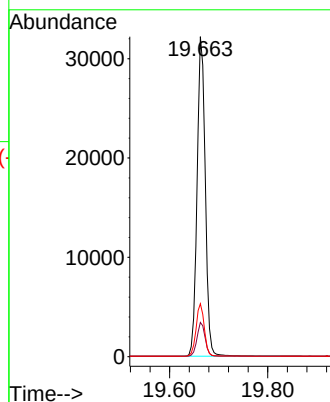
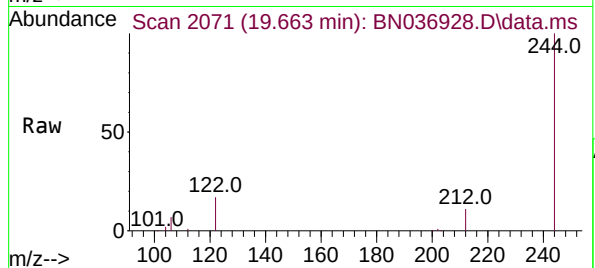




#31
Terphenyl-d14
Concen: 3.200 ng
RT: 19.663 min Scan# 2072
Delta R.T. -0.005 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

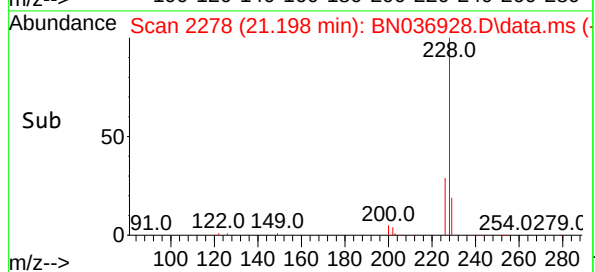
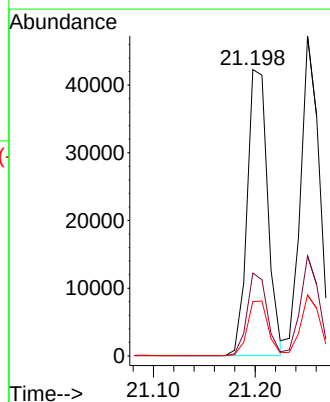
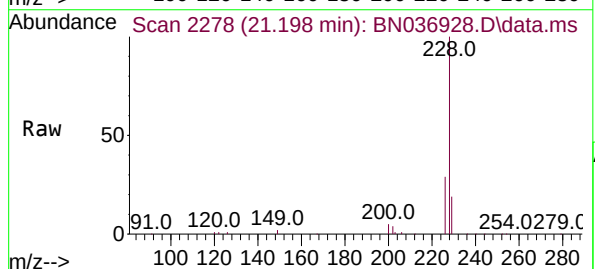
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

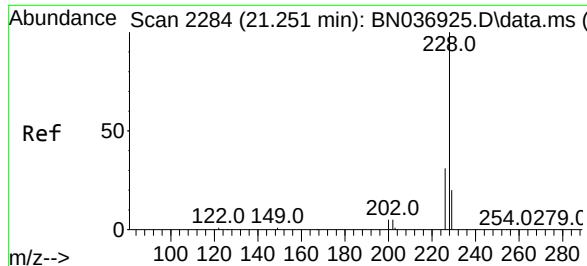
Tgt Ion:244 Resp: 37287
Ion Ratio Lower Upper
244 100
212 10.7 9.6 14.4
122 16.5 12.7 19.1



#32
Benzo(a)anthracene
Concen: 3.310 ng
RT: 21.198 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036928.D
Acq: 28 Apr 2025 14:36

Tgt Ion:228 Resp: 59092
Ion Ratio Lower Upper
228 100
226 29.0 22.2 33.4
229 19.0 16.4 24.6





#33

Chrysene

Concen: 3.149 ng

RT: 21.251 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

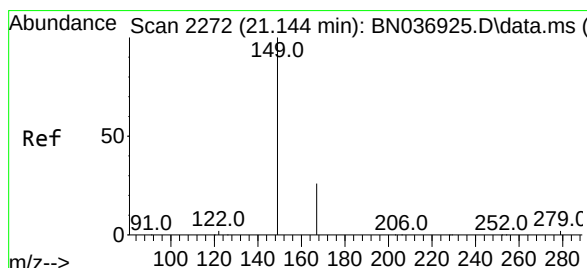
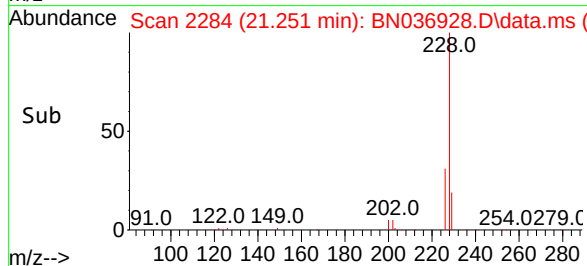
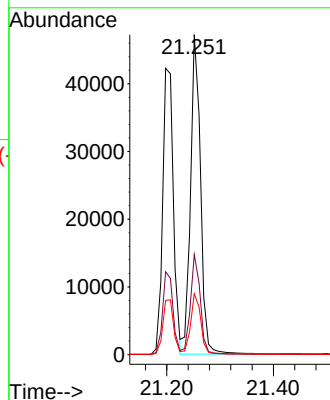
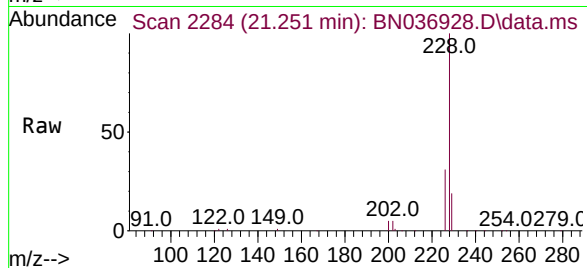
Tgt Ion:228 Resp: 61582

Ion Ratio Lower Upper

228 100

226 31.3 25.5 38.3

229 19.1 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.002 ng

RT: 21.144 min Scan# 2272

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

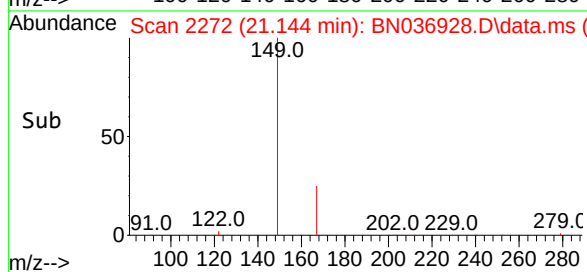
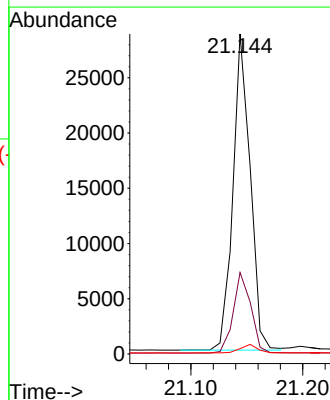
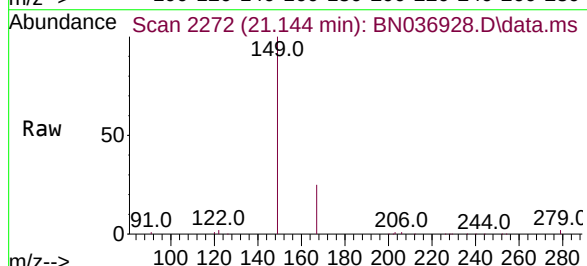
Tgt Ion:149 Resp: 30625

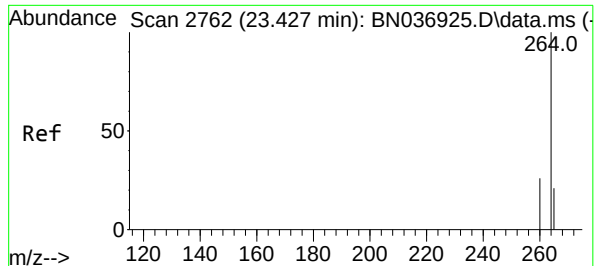
Ion Ratio Lower Upper

149 100

167 26.0 21.0 31.6

279 2.7 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.430 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

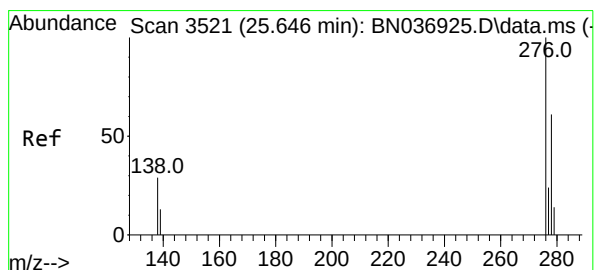
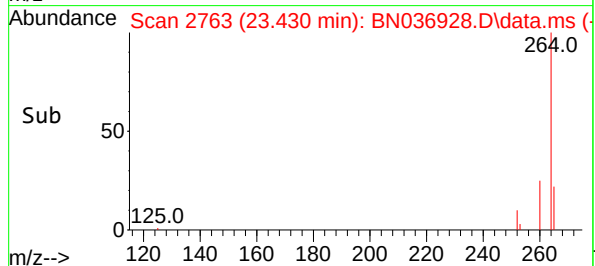
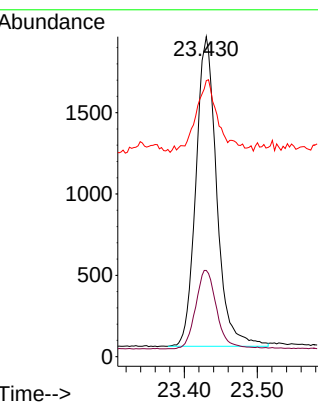
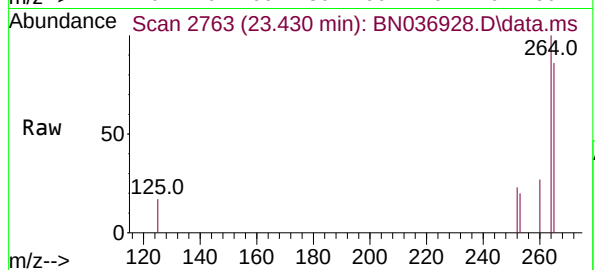
Tgt Ion:264 Resp: 3763

Ion Ratio Lower Upper

264 100

260 26.9 22.2 33.2

265 86.3 65.8 98.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.369 ng

RT: 25.643 min Scan# 3520

Delta R.T. -0.003 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

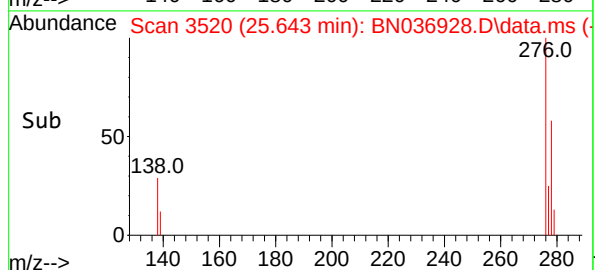
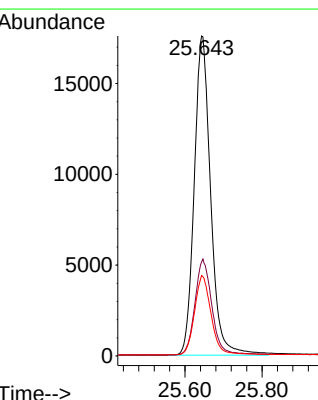
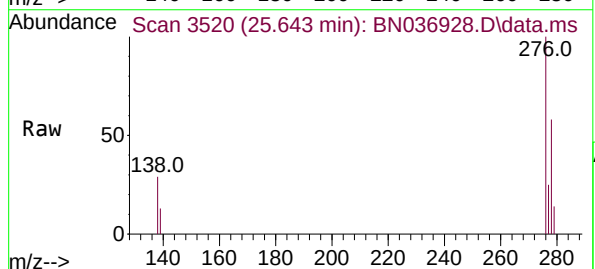
Tgt Ion:276 Resp: 51906

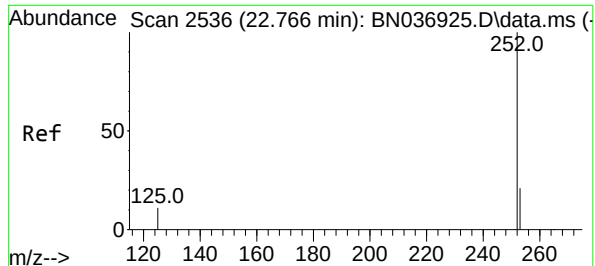
Ion Ratio Lower Upper

276 100

138 30.7 23.0 34.6

277 25.1 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 3.393 ng

RT: 22.766 min Scan# 2536

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

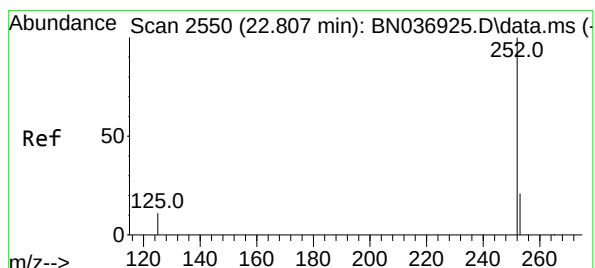
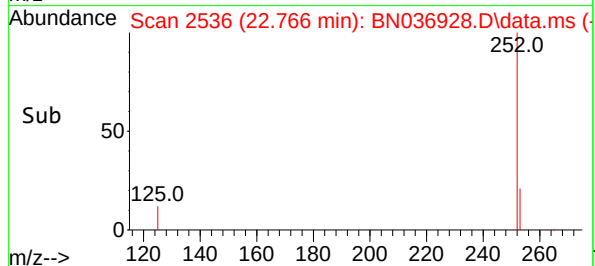
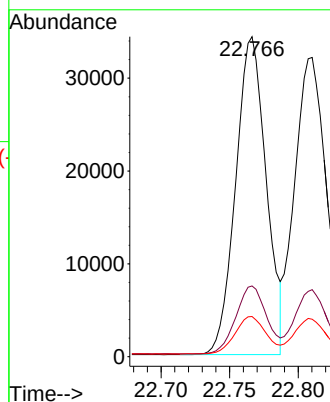
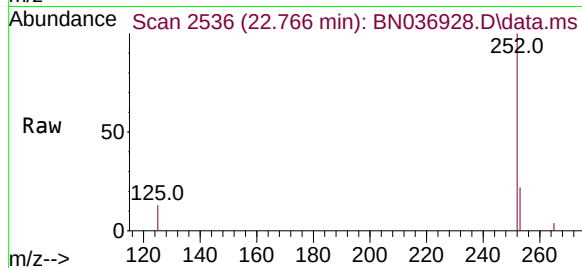
Tgt Ion:252 Resp: 52921

Ion Ratio Lower Upper

252 100

253 22.1 22.1 33.1

125 12.6 14.2 21.2#



#38

Benzo(k)fluoranthene

Concen: 3.406 ng

RT: 22.810 min Scan# 2551

Delta R.T. 0.003 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

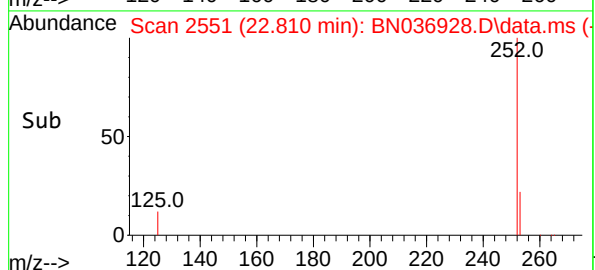
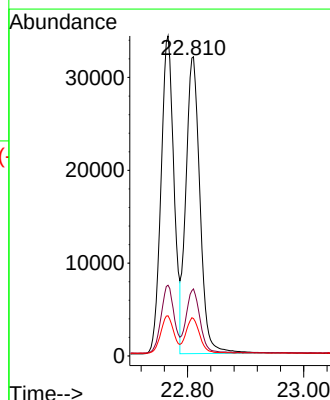
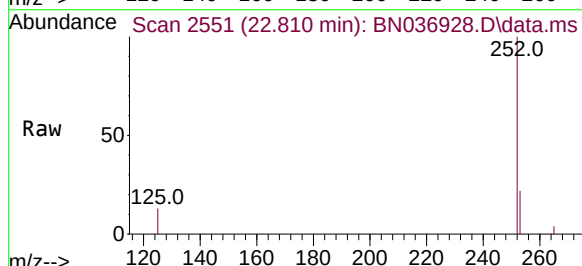
Tgt Ion:252 Resp: 53706

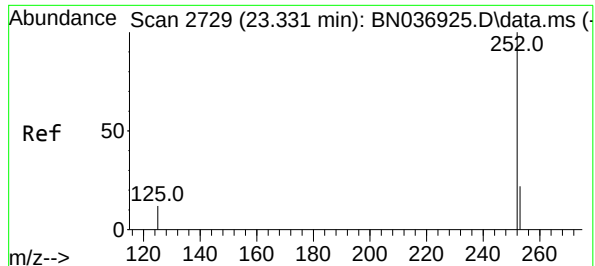
Ion Ratio Lower Upper

252 100

253 22.4 22.8 34.2#

125 12.5 14.2 21.2#





#39

Benzo(a)pyrene

Concen: 3.387 ng

RT: 23.331 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

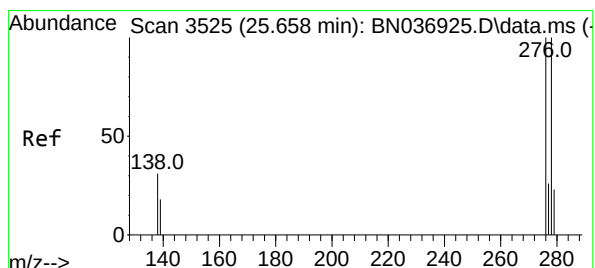
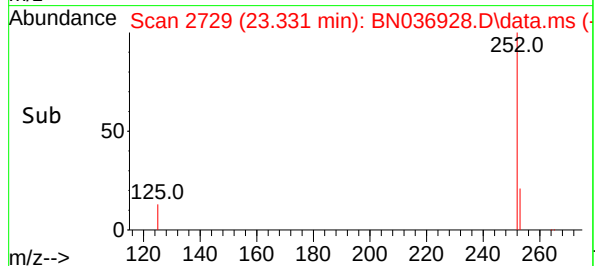
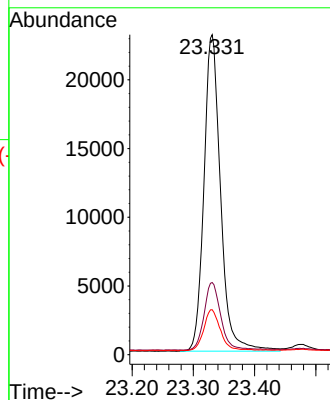
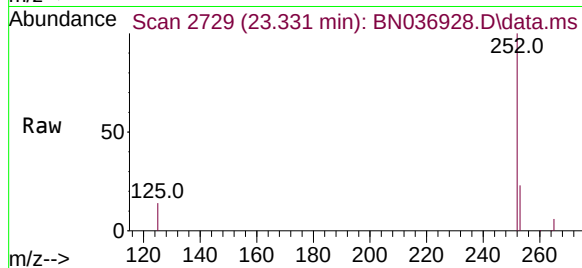
Tgt Ion:252 Resp: 43554

Ion Ratio Lower Upper

252 100

253 22.6 25.9 38.9#

125 14.1 17.4 26.0#



#40

Dibenzo(a,h)anthracene

Concen: 3.423 ng

RT: 25.655 min Scan# 3524

Delta R.T. -0.003 min

Lab File: BN036928.D

Acq: 28 Apr 2025 14:36

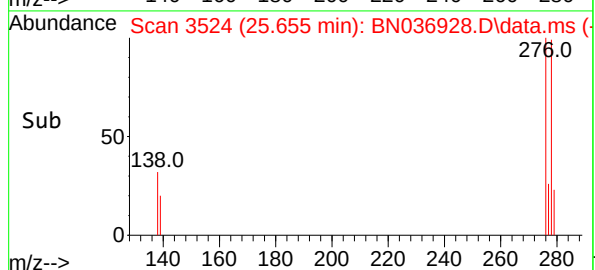
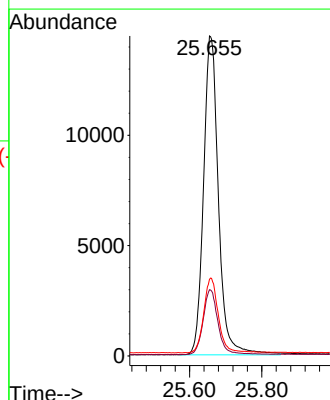
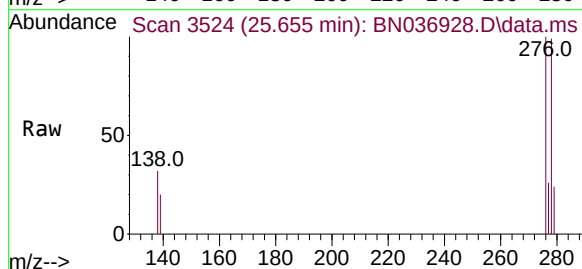
Tgt Ion:278 Resp: 41500

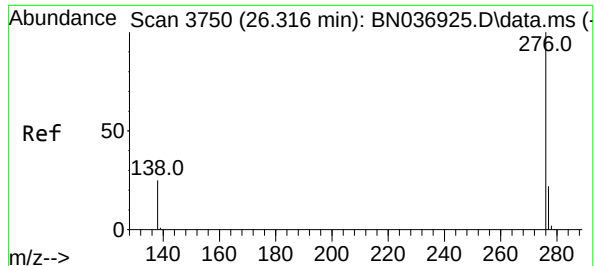
Ion Ratio Lower Upper

278 100

139 20.7 17.4 26.2

279 23.9 24.9 37.3#





#41

Benzo(g,h,i)perylene

Concen: 3.263 ng

RT: 26.319 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN036928.D

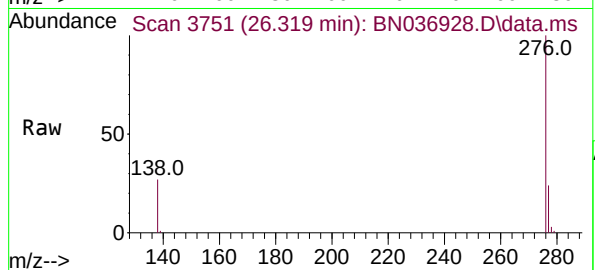
Acq: 28 Apr 2025 14:36

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



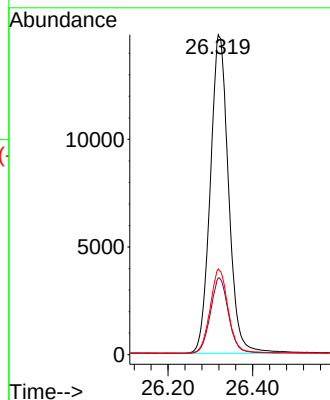
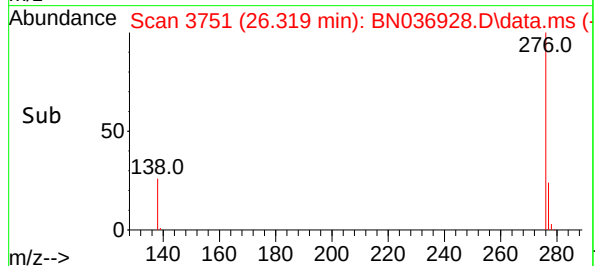
Tgt Ion:276 Resp: 44250

Ion Ratio Lower Upper

276 100

277 24.0 20.2 30.2

138 26.8 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036929.D
 Acq On : 28 Apr 2025 15:12
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Apr 28 15:34:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:18:01 2025
 Response via : Initial Calibration

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

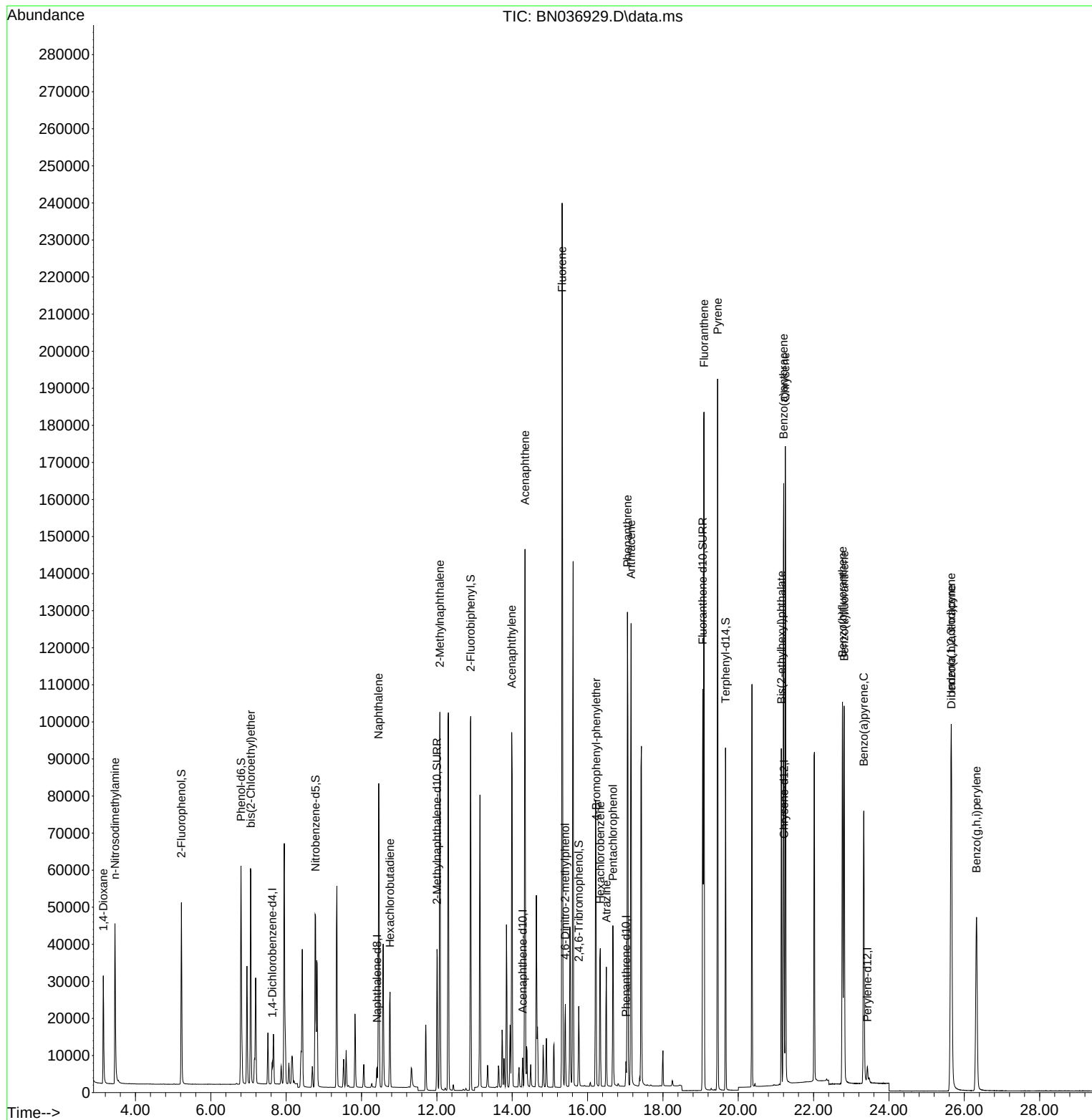
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.632	152	2667	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	6741	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	4034	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	7924	0.400	ng	0.00
29) Chrysene-d12	21.215	240	7034	0.400	ng	0.00
35) Perylene-d12	23.427	264	5350	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	32346	4.701	ng	0.00
5) Phenol-d6	6.802	99	42419	5.060	ng	0.00
8) Nitrobenzene-d5	8.781	82	36759	5.249	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	49610	5.308	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	9898	5.599	ng	0.00
15) 2-Fluorobiphenyl	12.898	172	97228	4.984	ng	0.00
27) Fluoranthene-d10	19.058	212	110482	5.447	ng	0.00
31) Terphenyl-d14	19.662	244	78873	4.712	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.147	88	15494	4.610	ng	96
3) n-Nitrosodimethylamine	3.458	42	30605	4.705	ng	# 98
6) bis(2-Chloroethyl)ether	7.062	93	38731	4.973	ng	99
9) Naphthalene	10.457	128	98160	5.004	ng	98
10) Hexachlorobutadiene	10.756	225	20245	4.733	ng	# 98
12) 2-Methylnaphthalene	12.082	142	67281	5.359	ng	98
16) Acenaphthylene	13.988	152	104172	5.334	ng	100
17) Acenaphthene	14.341	154	65801	5.093	ng	98
18) Fluorene	15.325	166	88362	5.254	ng	99
20) 4,6-Dinitro-2-methylph...	15.410	198	13303	6.700	ng	# 52
21) 4-Bromophenyl-phenylether	16.226	248	26778	5.074	ng	94
22) Hexachlorobenzene	16.338	284	27944	4.793	ng	99
23) Atrazine	16.499	200	24525	5.893	ng	# 91
24) Pentachlorophenol	16.673	266	17963	5.937	ng	99
25) Phenanthrene	17.058	178	133437	5.119	ng	99
26) Anthracene	17.157	178	128680	5.520	ng	100
28) Fluoranthene	19.091	202	159754	5.533	ng	99
30) Pyrene	19.453	202	160324	4.691	ng	100
32) Benzo(a)anthracene	21.206	228	137209	5.349	ng	98
33) Chrysene	21.251	228	135038	4.807	ng	98
34) Bis(2-ethylhexyl)phtha...	21.143	149	76115	5.194	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.649	276	107583	4.911	ng	97
37) Benzo(b)fluoranthene	22.766	252	122058	5.504	ng	# 89
38) Benzo(k)fluoranthene	22.810	252	119359	5.325	ng	# 87
39) Benzo(a)pyrene	23.333	252	98753	5.402	ng	# 82
40) Dibenzo(a,h)anthracene	25.660	278	84789	4.920	ng	# 91
41) Benzo(g,h,i)perylene	26.324	276	89523	4.643	ng	99

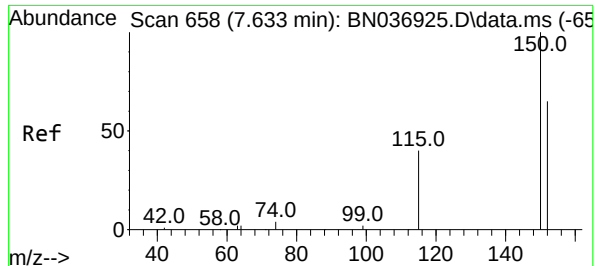
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036929.D
Acq On : 28 Apr 2025 15:12
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

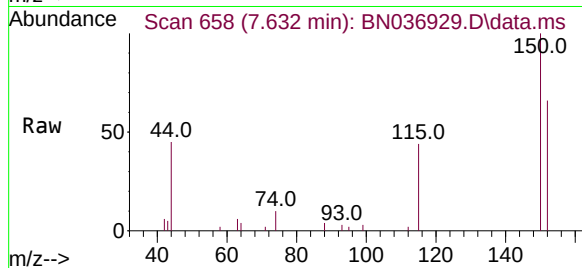
Quant Time: Apr 28 15:34:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:18:01 2025
Response via : Initial Calibration



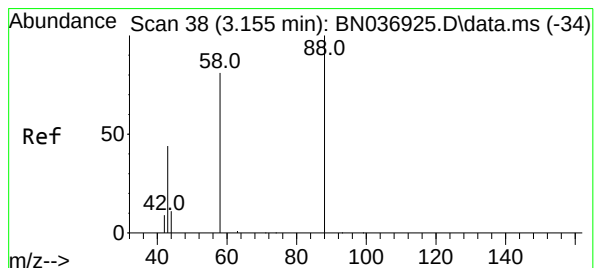
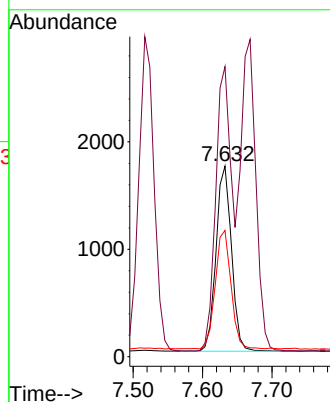


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.632 min Scan# 61
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

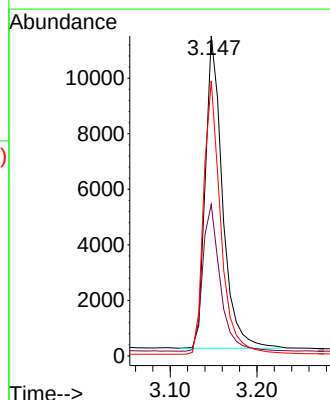
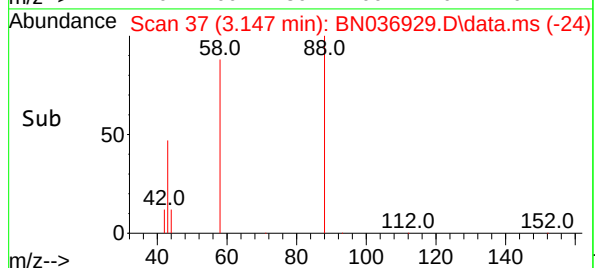
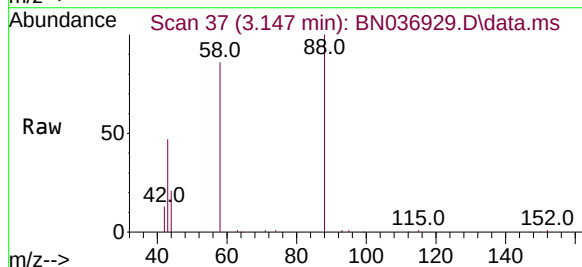


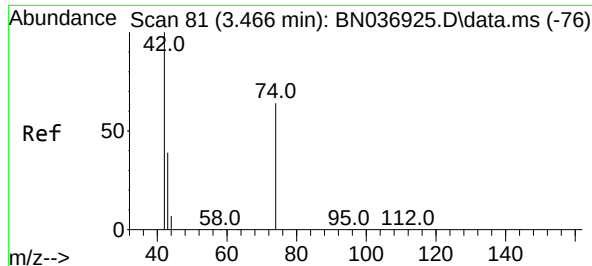
Tgt Ion:152 Resp: 2667
Ion Ratio Lower Upper
152 100
150 152.3 121.1 181.7
115 66.3 51.8 77.6



#2
1,4-Dioxane
Concen: 4.610 ng
RT: 3.147 min Scan# 37
Delta R.T. -0.008 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion: 88 Resp: 15494
Ion Ratio Lower Upper
88 100
43 47.8 37.9 56.9
58 87.2 65.8 98.6

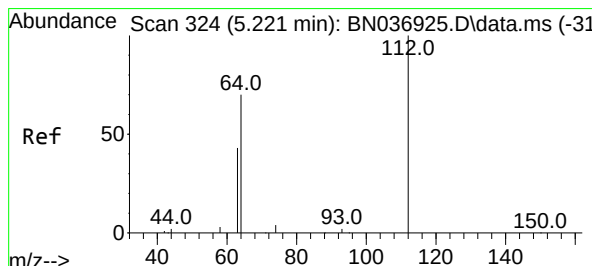
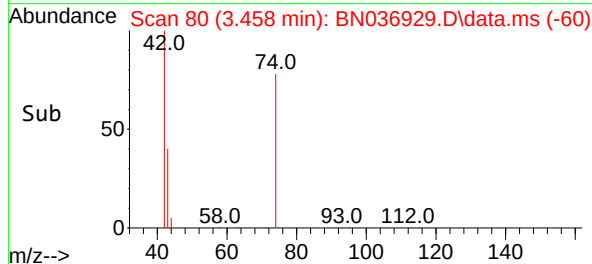
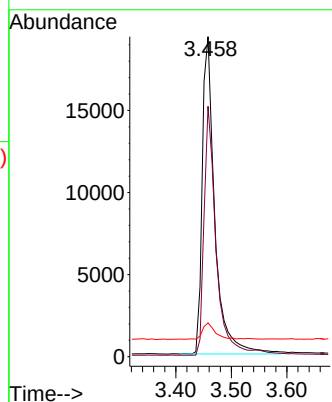
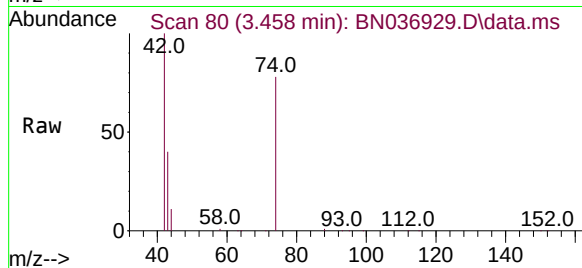




#3
n-Nitrosodimethylamine
Concen: 4.705 ng
RT: 3.458 min Scan# 81
Delta R.T. -0.008 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

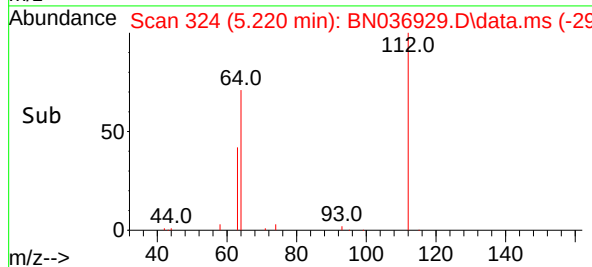
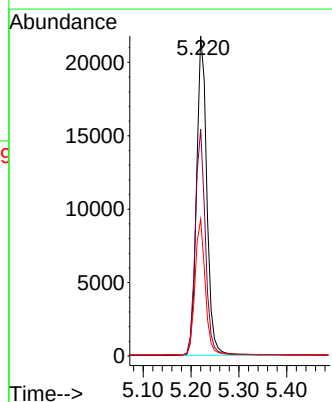
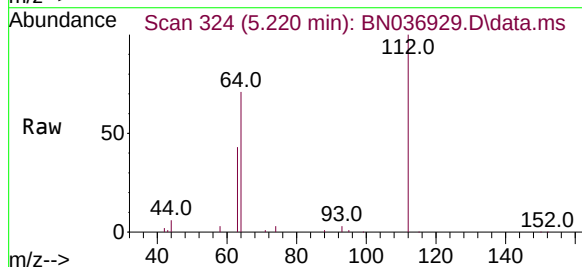
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

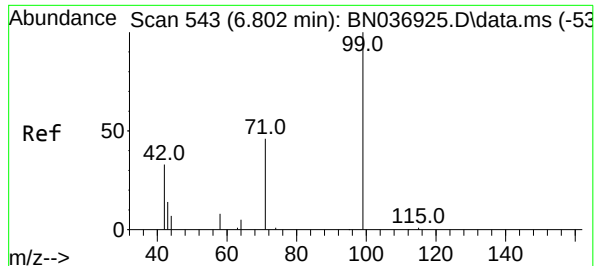
Tgt Ion: 42 Resp: 30605
Ion Ratio Lower Upper
42 100
74 75.7 59.9 89.9
44 5.2 7.5 11.3#



#4
2-Fluorophenol
Concen: 4.701 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion: 112 Resp: 32346
Ion Ratio Lower Upper
112 100
64 69.9 55.7 83.5
63 42.2 33.9 50.9

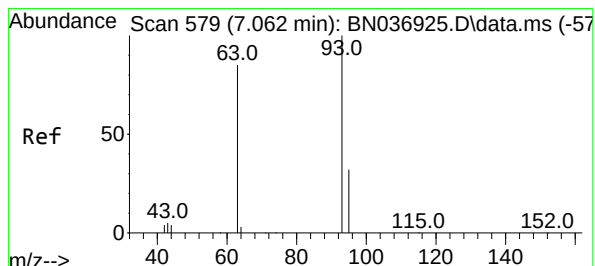
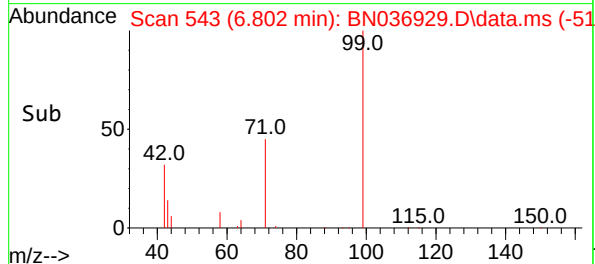
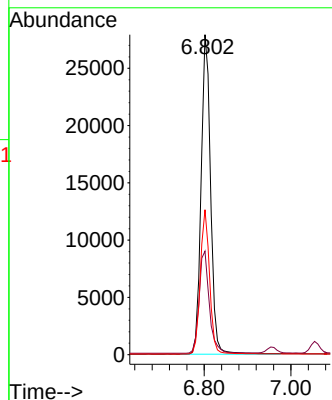
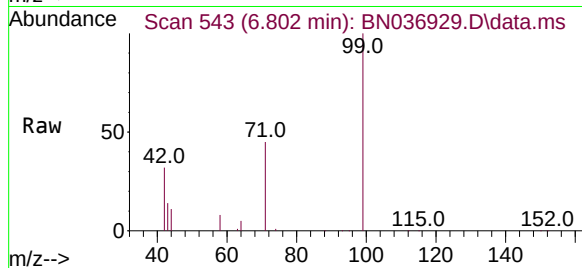




#5
Phenol-d6
Concen: 5.060 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

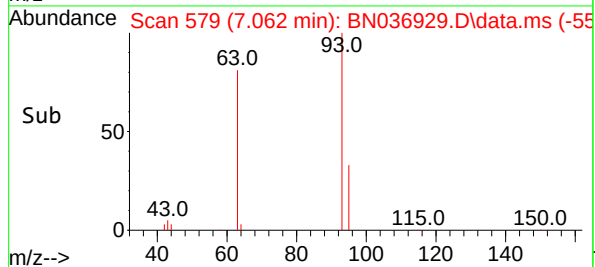
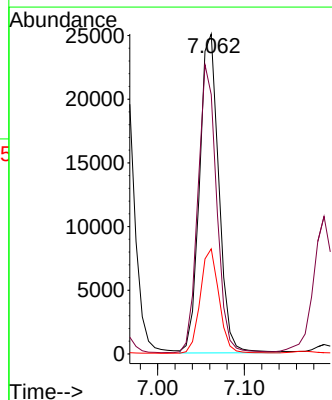
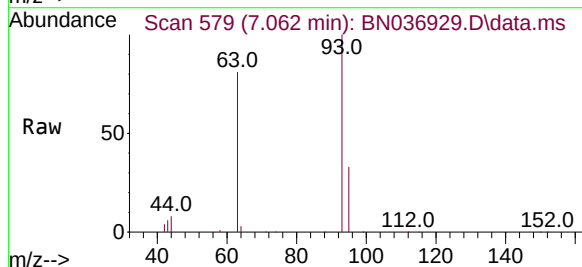
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

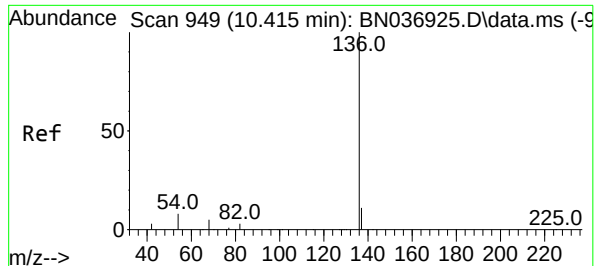
Tgt Ion: 99 Resp: 42419
Ion Ratio Lower Upper
99 100
42 34.6 29.6 44.4
71 44.3 36.0 54.0



#6
bis(2-Chloroethyl)ether
Concen: 4.973 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion: 93 Resp: 38731
Ion Ratio Lower Upper
93 100
63 87.6 69.0 103.6
95 32.0 25.4 38.0

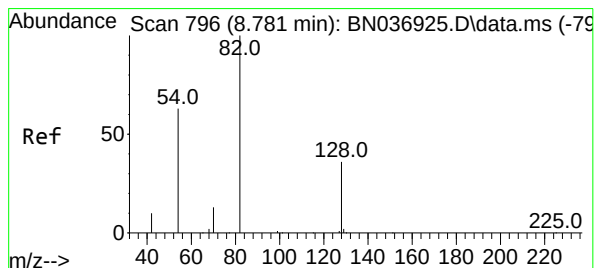
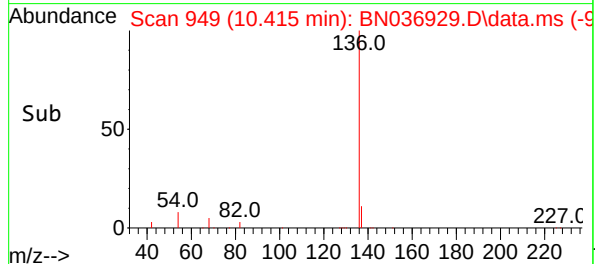
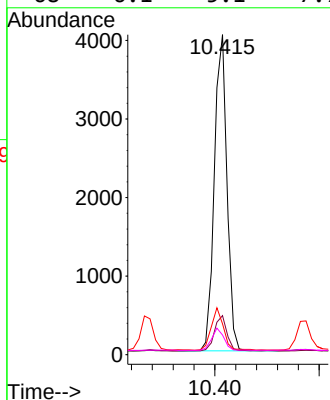
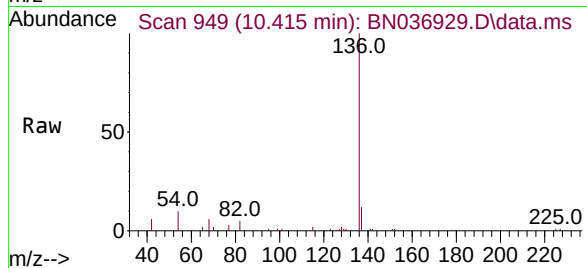




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

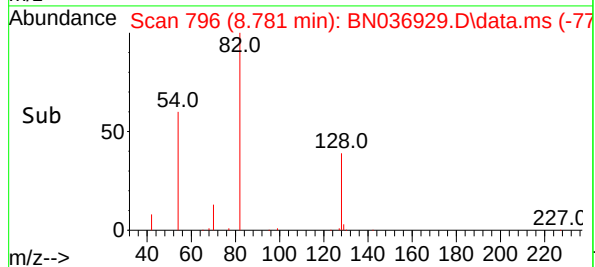
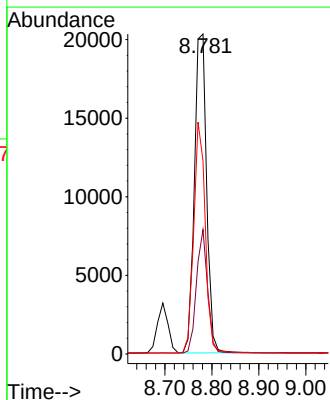
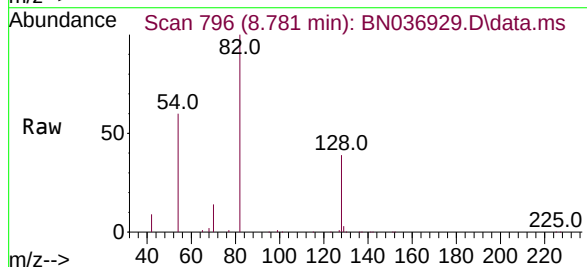
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

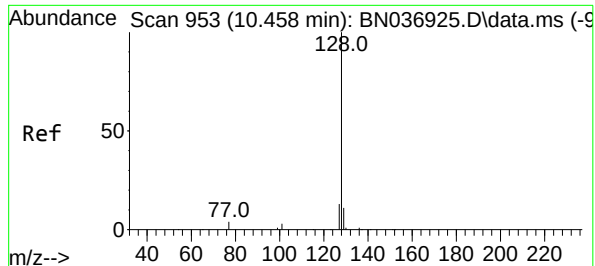
Tgt Ion:136 Resp: 6741
Ion Ratio Lower Upper
136 100
137 12.2 9.7 14.5
54 9.7 8.0 12.0
68 6.1 5.1 7.7



#8
Nitrobenzene-d5
Concen: 5.249 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion: 82 Resp: 36759
Ion Ratio Lower Upper
82 100
128 38.9 30.7 46.1
54 60.4 52.1 78.1

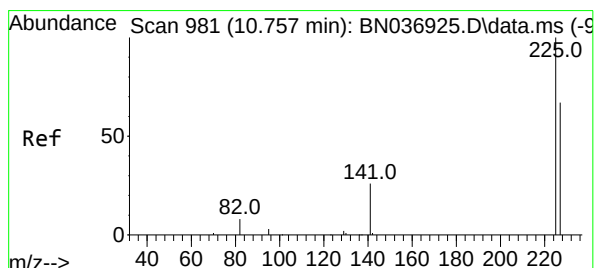
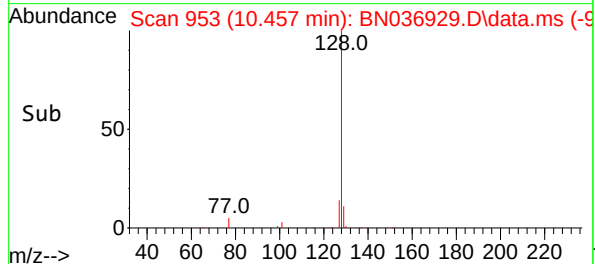
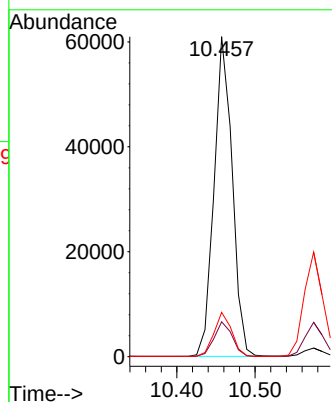
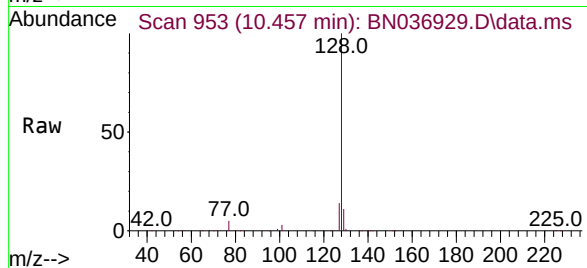




#9
Naphthalene
Concen: 5.004 ng
RT: 10.457 min Scan# 91
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

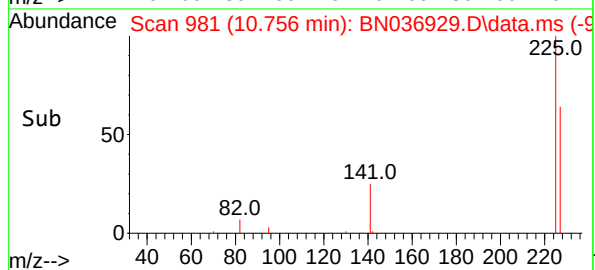
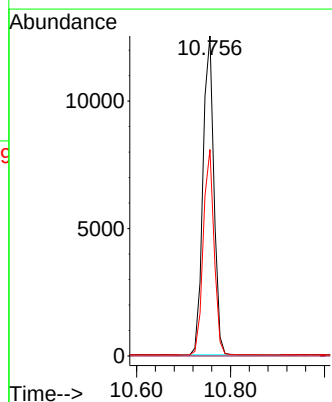
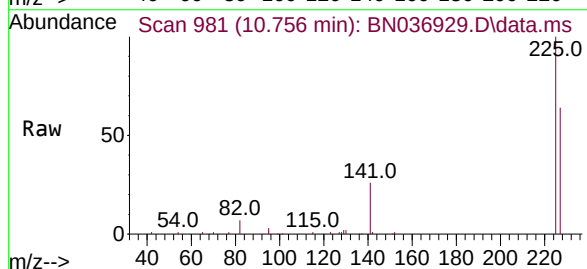
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

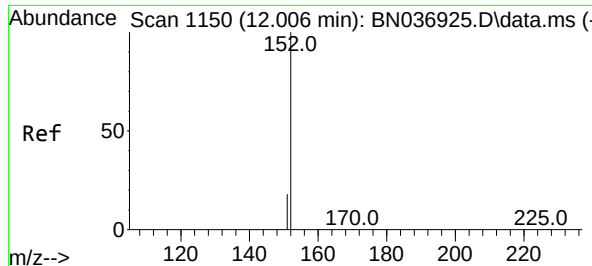
Tgt Ion	128	129	127
Resp:	98160		
Ion Ratio	100	10.9	13.9
Lower		9.8	11.4
Upper		14.6	17.2



#10
Hexachlorobutadiene
Concen: 4.733 ng
RT: 10.756 min Scan# 981
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion	225	223	227
Resp:	20245		
Ion Ratio	100	0.0	63.6
Lower		0.0	52.2
Upper		0.0	78.4

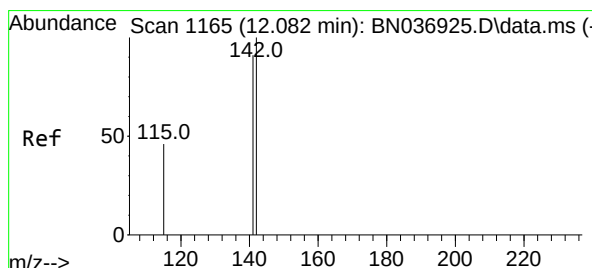
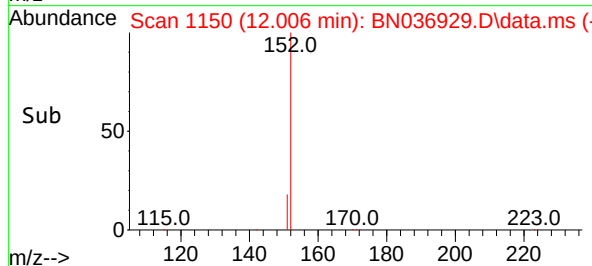
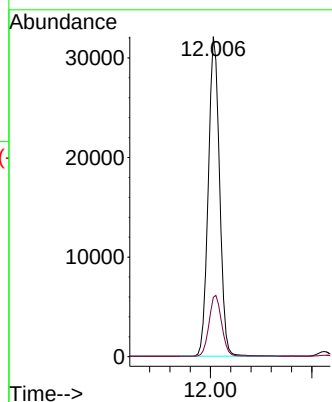
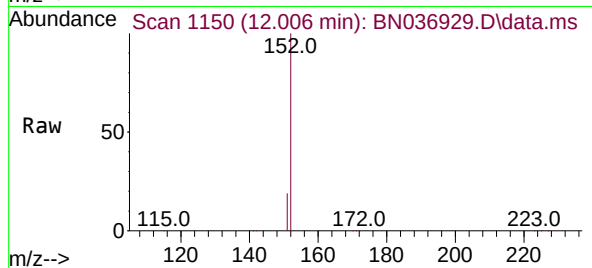




#11
2-Methylnaphthalene-d10
Concen: 5.308 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

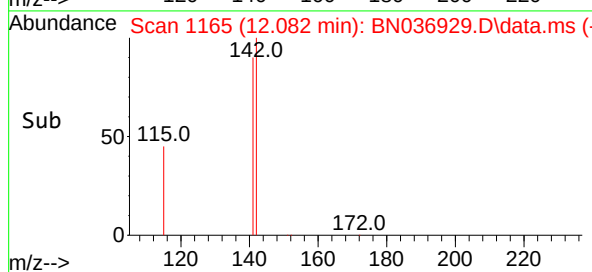
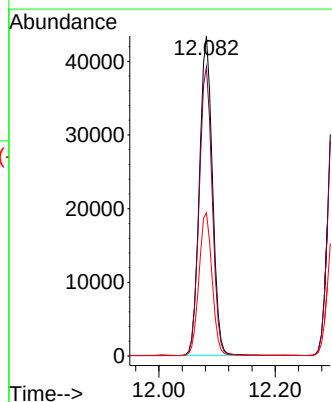
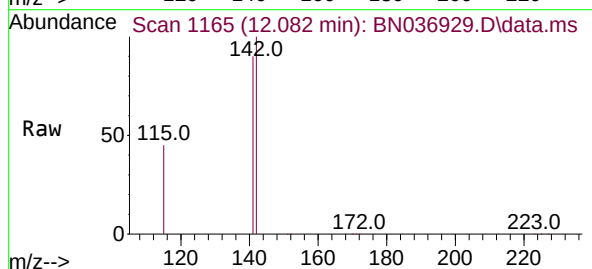
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

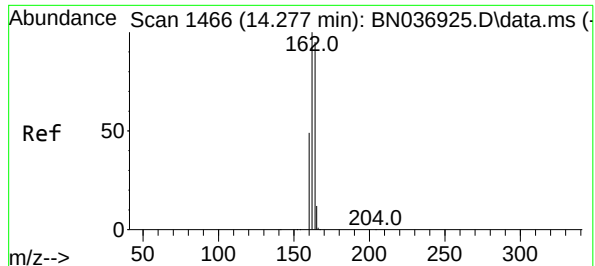
Tgt Ion:152 Resp: 49610
Ion Ratio Lower Upper
152 100
151 21.3 16.9 25.3



#12
2-Methylnaphthalene
Concen: 5.359 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:142 Resp: 67281
Ion Ratio Lower Upper
142 100
141 90.4 72.8 109.2
115 44.7 38.2 57.4

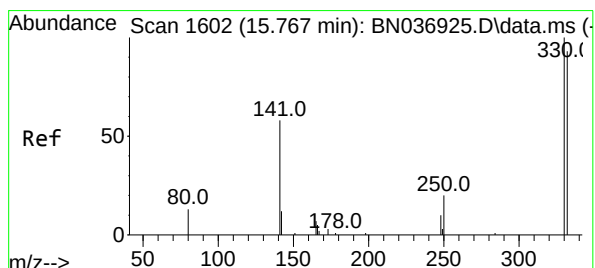
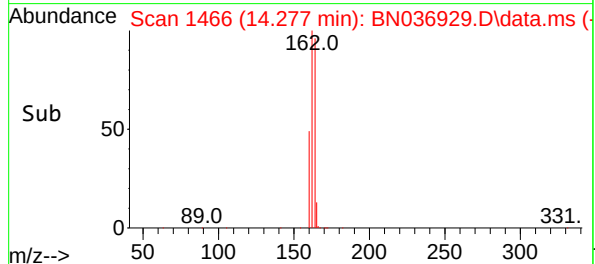
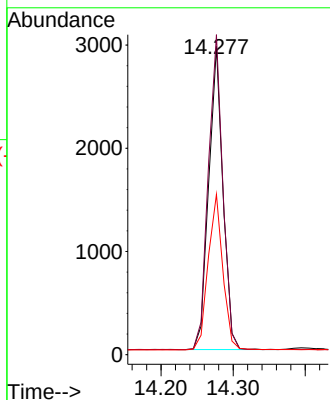
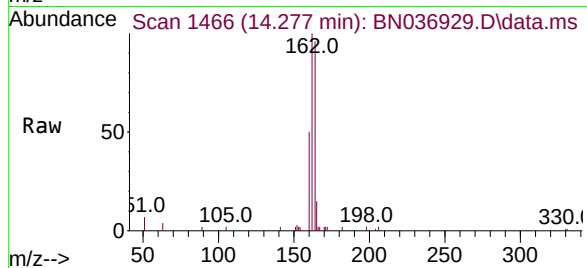




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

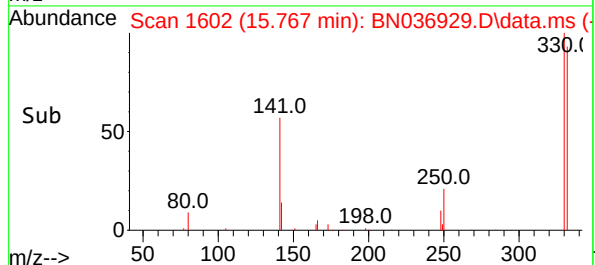
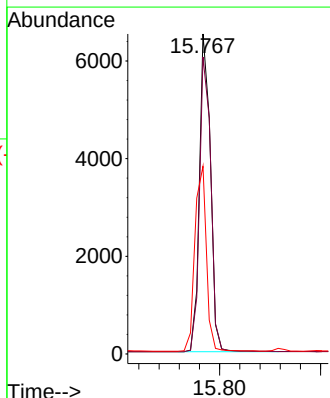
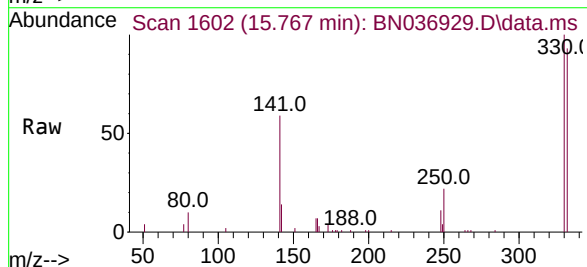
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

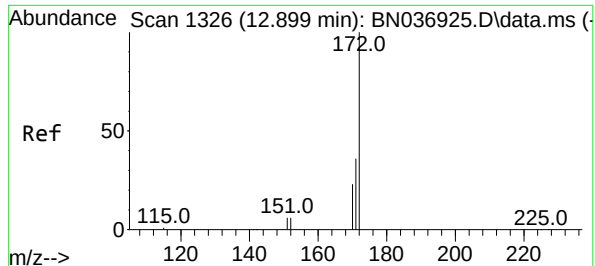
Tgt Ion:164 Resp: 4034
Ion Ratio Lower Upper
164 100
162 103.9 83.8 125.8
160 52.0 42.0 63.0



#14
2,4,6-Tribromophenol
Concen: 5.599 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:330 Resp: 9898
Ion Ratio Lower Upper
330 100
332 95.5 76.3 114.5
141 60.7 45.4 68.2

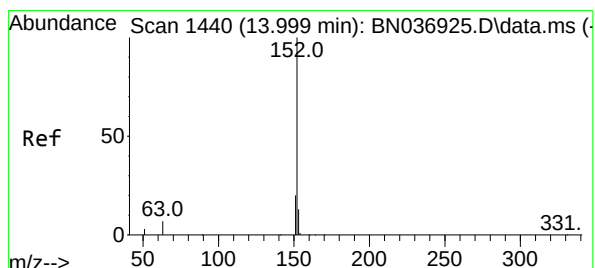
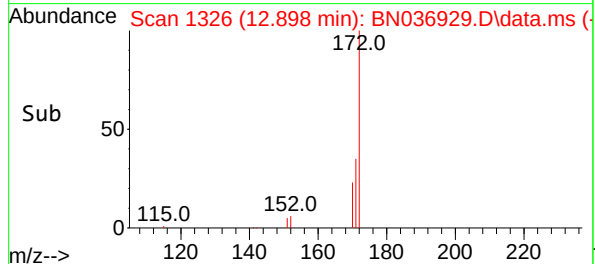
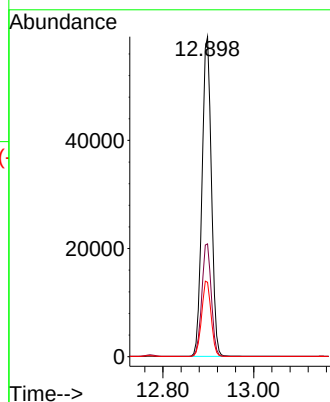
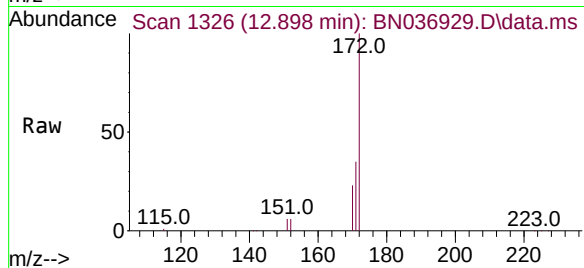




#15
2-Fluorobiphenyl
Concen: 4.984 ng
RT: 12.898 min Scan# 1439
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

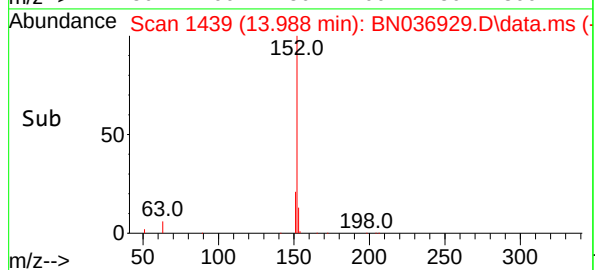
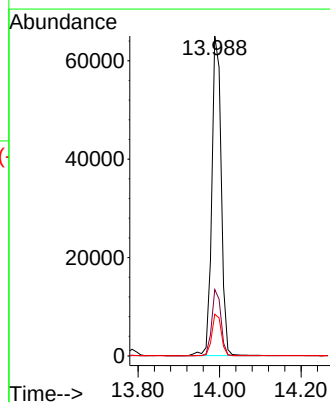
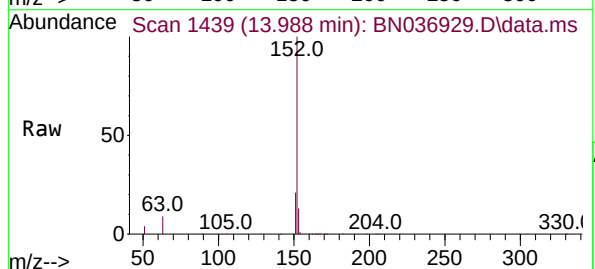
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

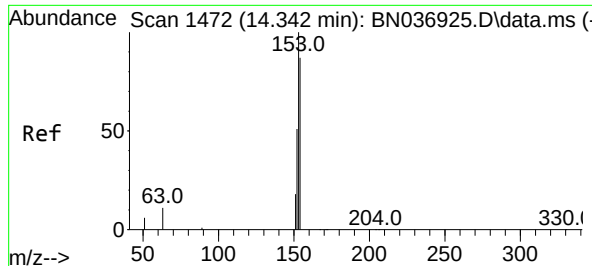
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.2	29.4	44.0
170	23.2	19.4	29.0



#16
Acenaphthylene
Concen: 5.334 ng
RT: 13.988 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.0	24.0
153	13.0	10.2	15.2

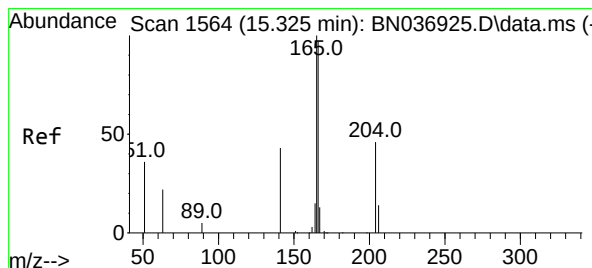
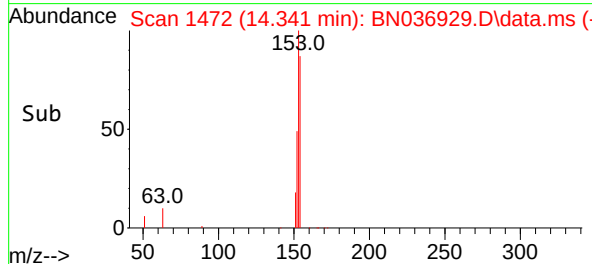
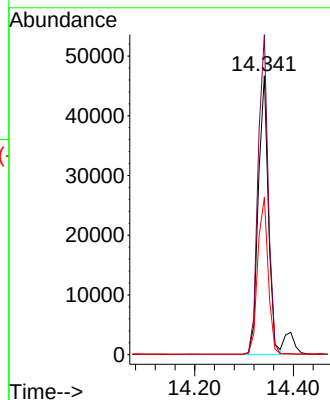
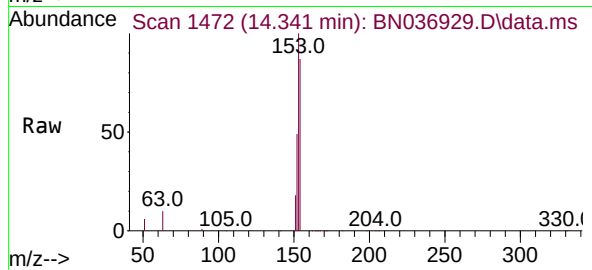




#17
Acenaphthene
Concen: 5.093 ng
RT: 14.341 min Scan# 1472
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

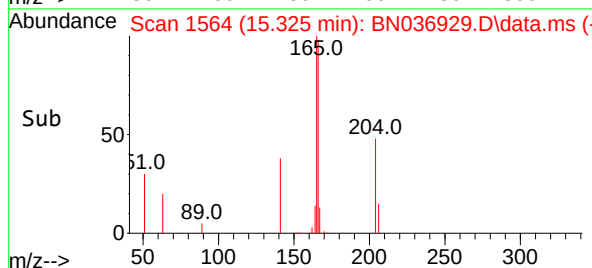
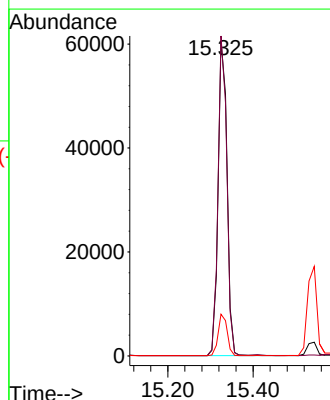
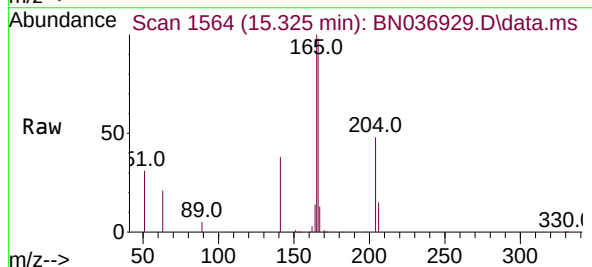
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

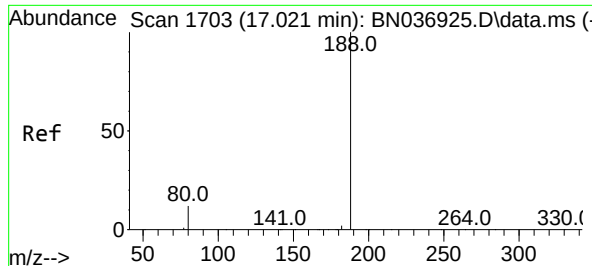
Tgt Ion:154 Resp: 65801
Ion Ratio Lower Upper
154 100
153 115.8 93.4 140.2
152 58.6 49.5 74.3



#18
Fluorene
Concen: 5.254 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:166 Resp: 88362
Ion Ratio Lower Upper
166 100
165 99.7 80.8 121.2
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

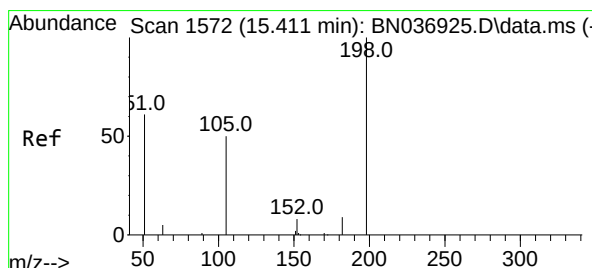
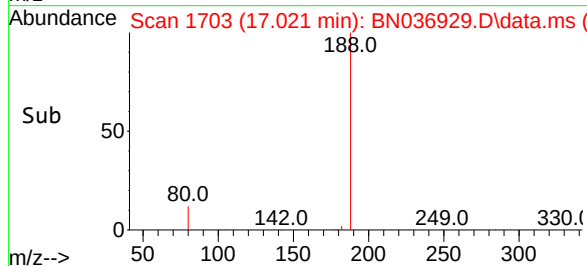
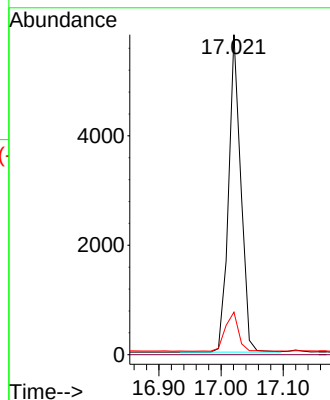
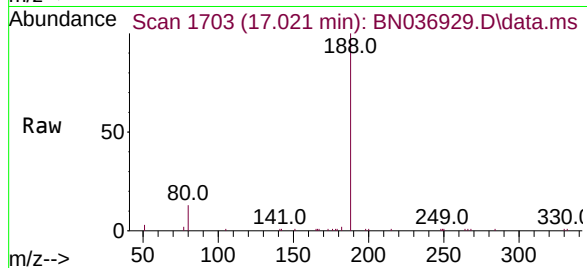
Tgt Ion:188 Resp: 7924

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.3 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 6.700 ng

RT: 15.410 min Scan# 1572

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

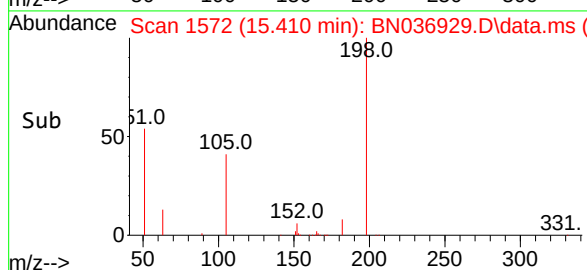
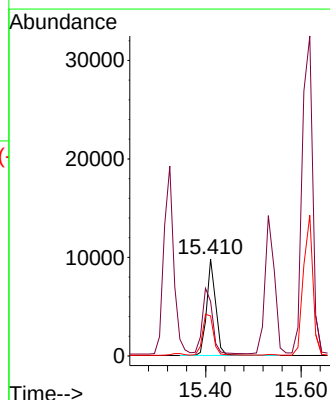
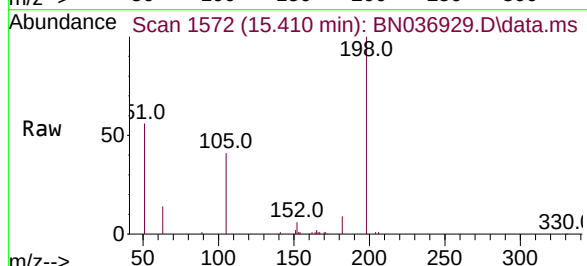
Tgt Ion:198 Resp: 13303

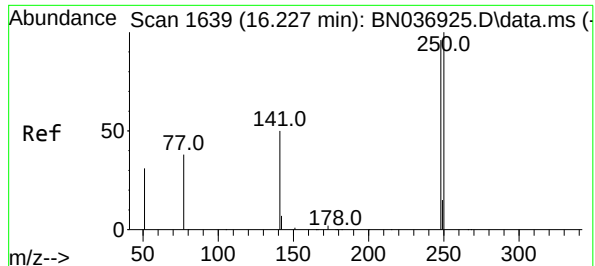
Ion Ratio Lower Upper

198 100

51 56.3 97.9 146.9#

105 41.2 50.0 75.0#

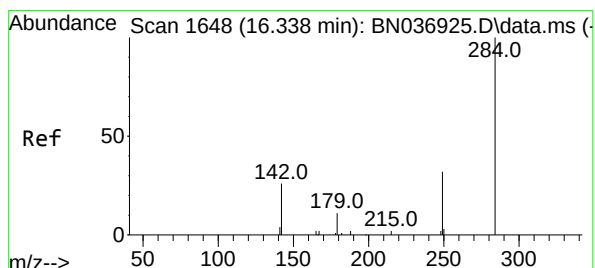
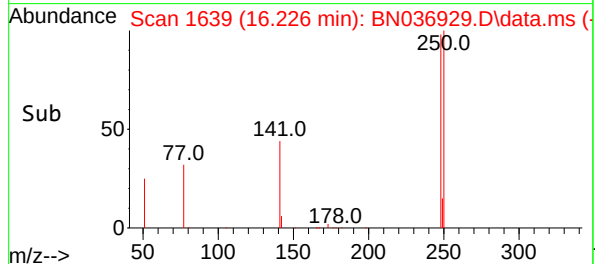
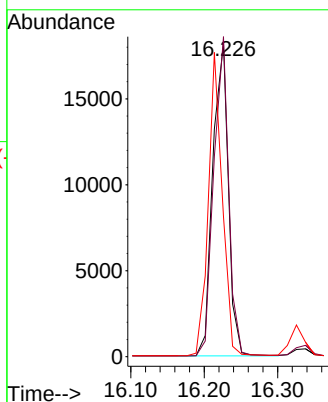
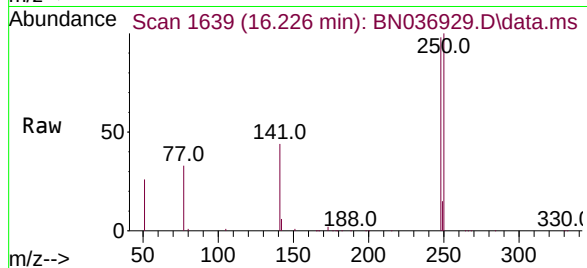




#21
4-Bromophenyl-phenylether
Concen: 5.074 ng
RT: 16.226 min Scan# 1639
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

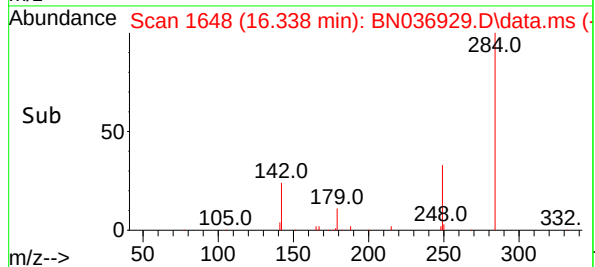
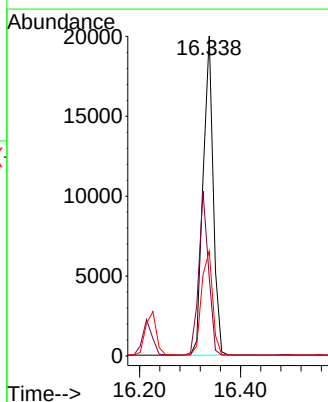
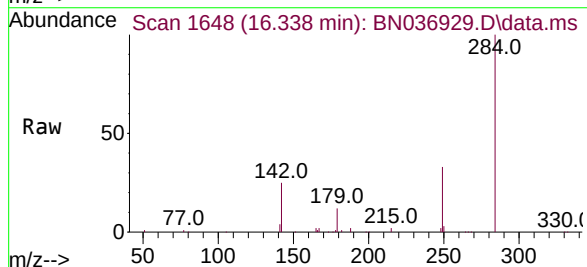
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

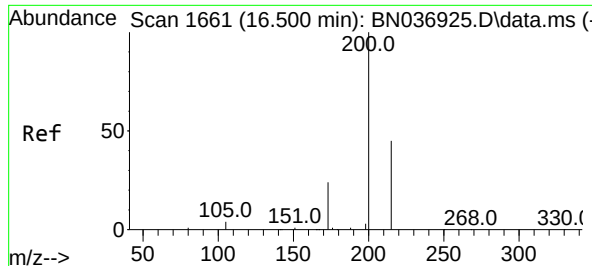
Tgt Ion	Ratio	Lower	Upper
248	100		
250	102.1	83.7	125.5
141	44.7	43.8	65.8



#22
Hexachlorobenzene
Concen: 4.793 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion	Ratio	Lower	Upper
284	100		
142	49.9	40.0	60.0
249	35.8	28.2	42.2

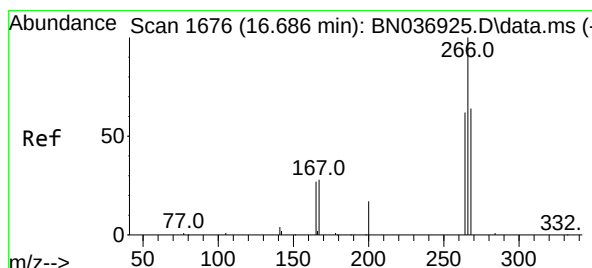
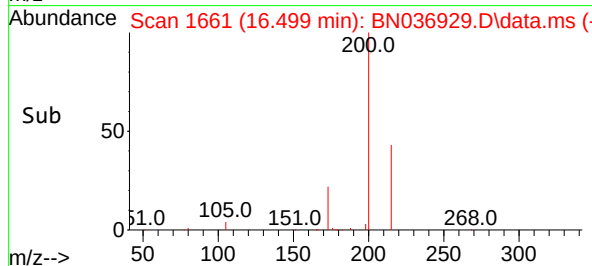
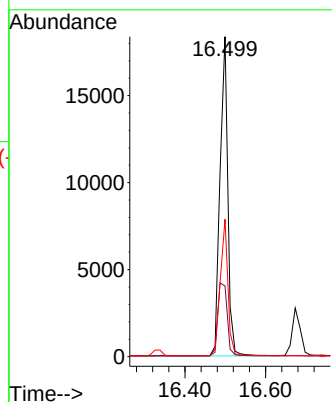
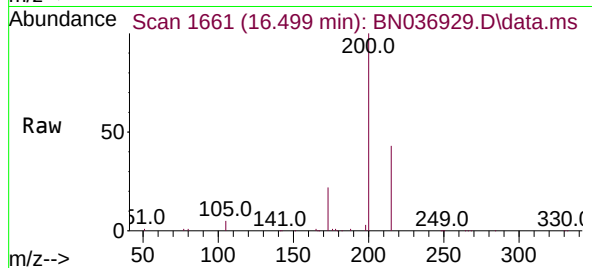




#23
Atrazine
Concen: 5.893 ng
RT: 16.499 min Scan# 1661
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

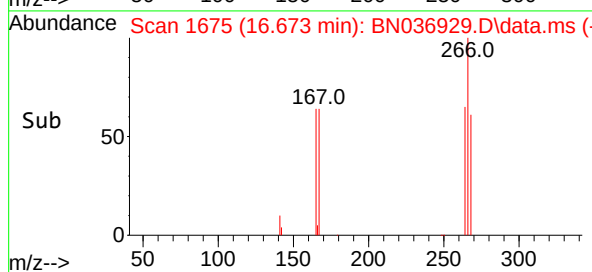
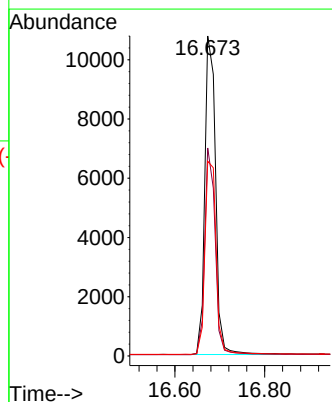
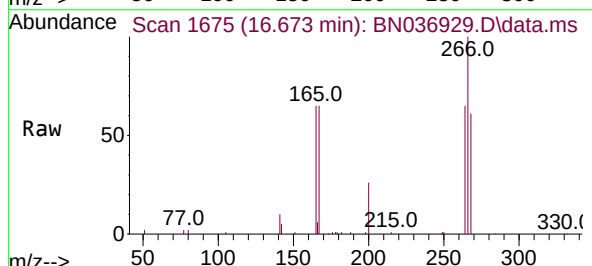
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

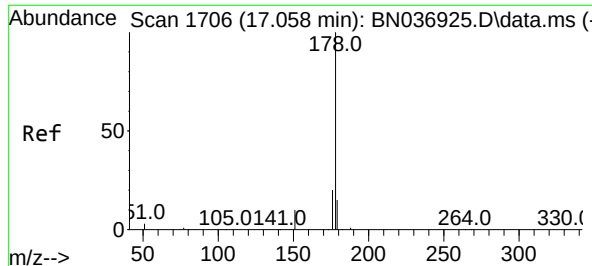
Tgt Ion:200 Resp: 24525
Ion Ratio Lower Upper
200 100
173 22.1 22.4 33.6#
215 42.9 38.6 57.8



#24
Pentachlorophenol
Concen: 5.937 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.013 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:266 Resp: 17963
Ion Ratio Lower Upper
266 100
264 62.6 49.9 74.9
268 63.3 52.2 78.4

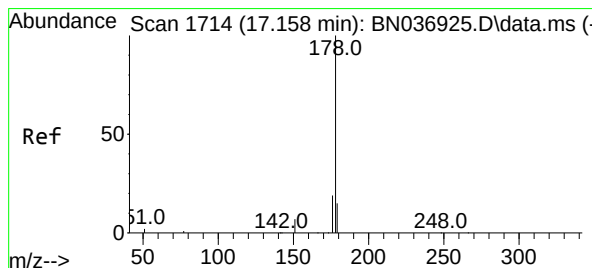
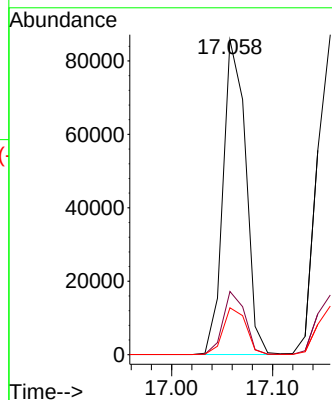
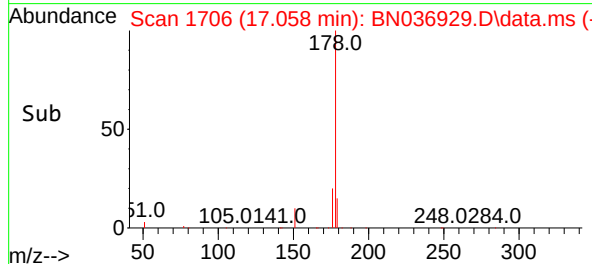
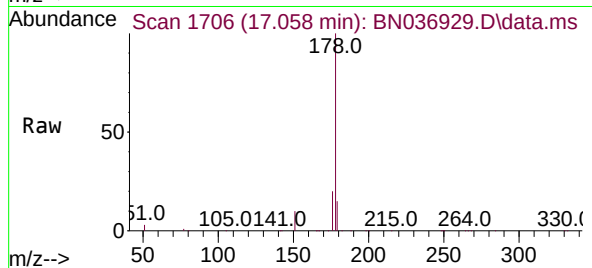




#25
Phenanthrene
Concen: 5.119 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

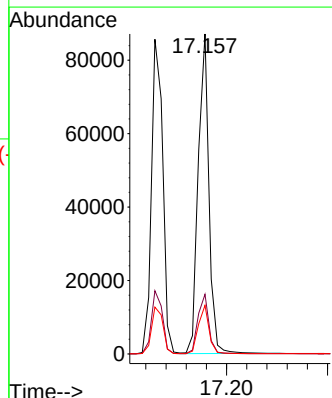
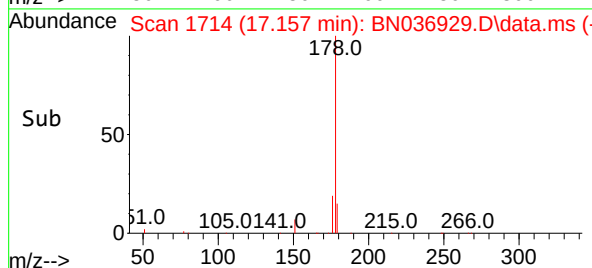
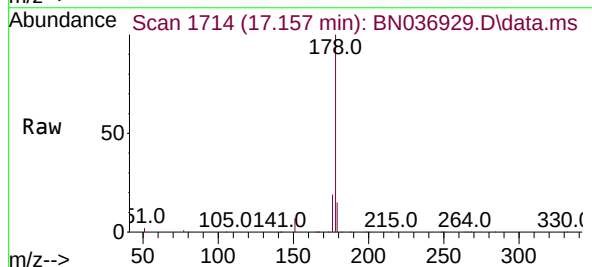
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

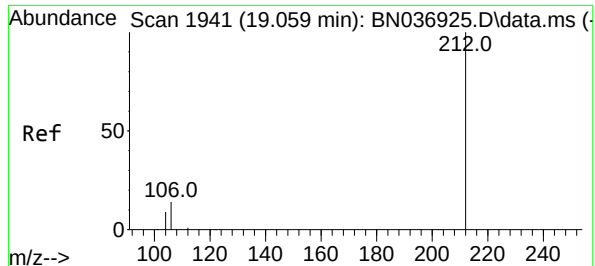
Tgt Ion:178 Resp: 133437
Ion Ratio Lower Upper
178 100
176 19.5 15.7 23.5
179 15.0 12.4 18.6



#26
Anthracene
Concen: 5.520 ng
RT: 17.157 min Scan# 1714
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:178 Resp: 128680
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.0 12.1 18.1





#27

Fluoranthene-d10

Concen: 5.447 ng

RT: 19.058 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

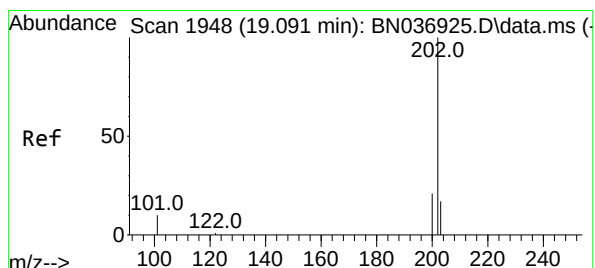
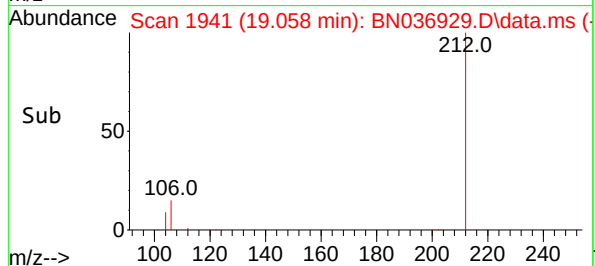
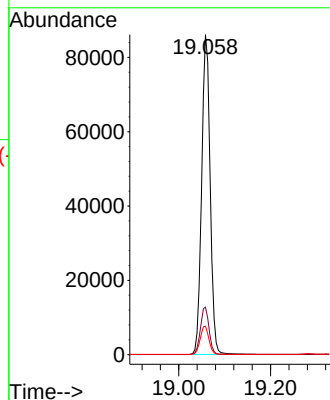
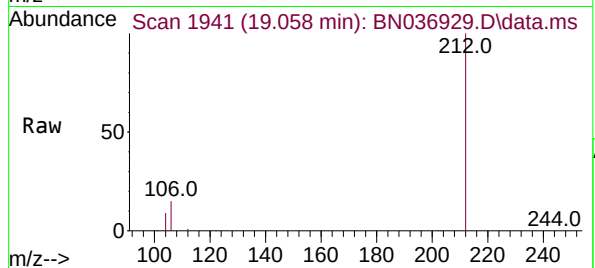
Tgt Ion:212 Resp: 110482

Ion Ratio Lower Upper

212 100

106 15.0 11.6 17.4

104 9.0 7.0 10.4



#28

Fluoranthene

Concen: 5.533 ng

RT: 19.091 min Scan# 1948

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

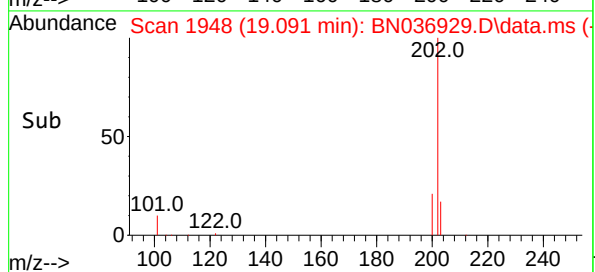
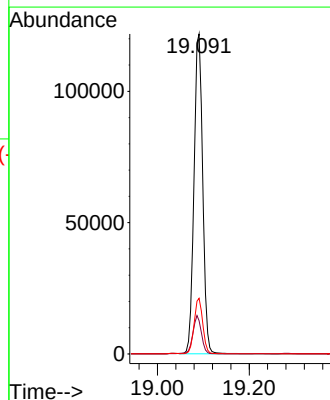
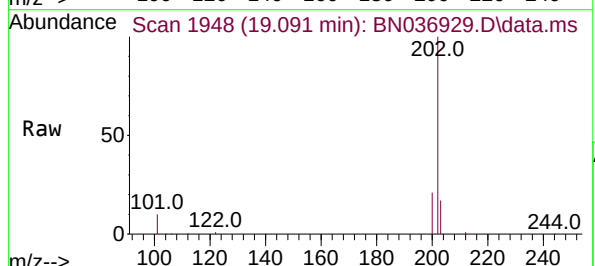
Tgt Ion:202 Resp: 159754

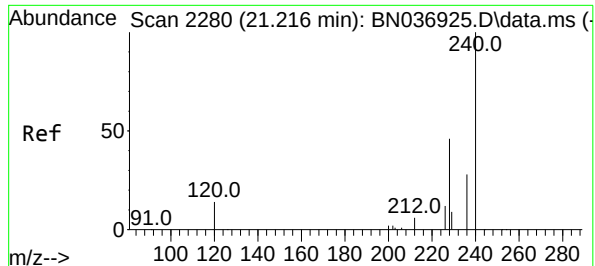
Ion Ratio Lower Upper

202 100

101 11.7 8.5 12.7

203 17.2 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

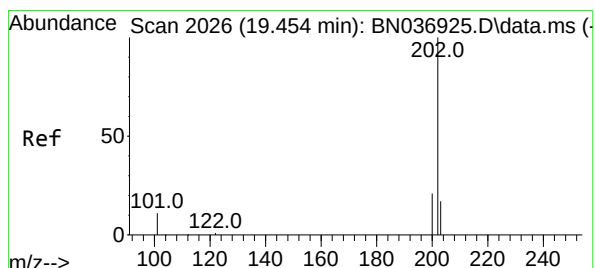
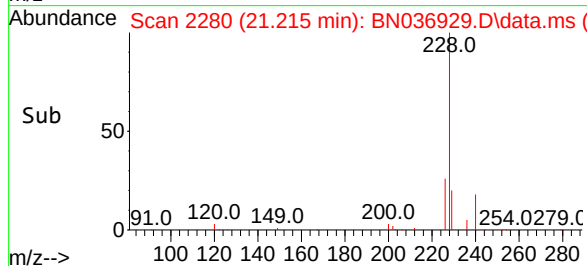
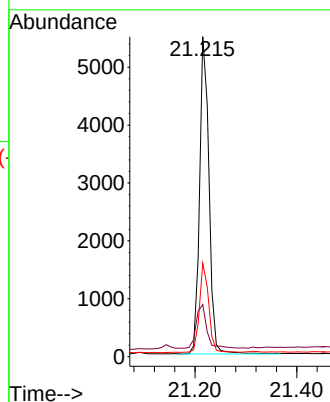
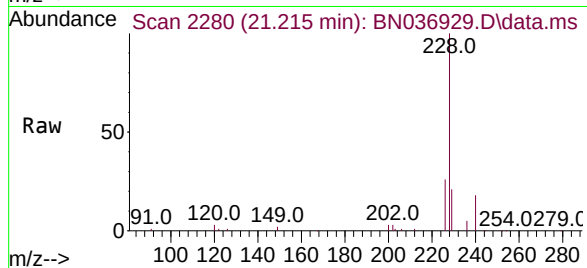
Tgt Ion:240 Resp: 7034

Ion Ratio Lower Upper

240 100

120 16.3 14.1 21.1

236 29.2 23.8 35.8



#30

Pyrene

Concen: 4.691 ng

RT: 19.453 min Scan# 2026

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

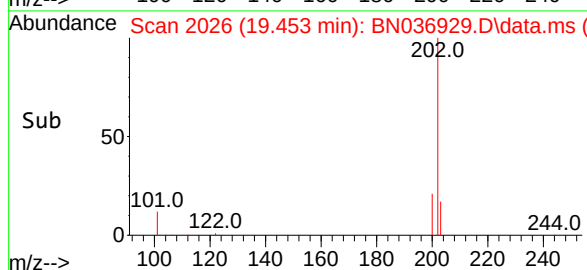
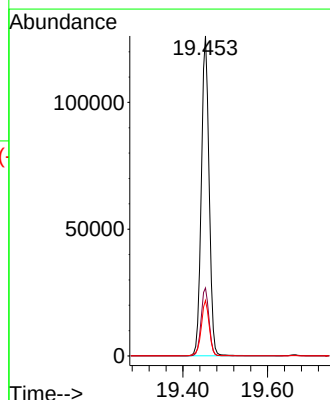
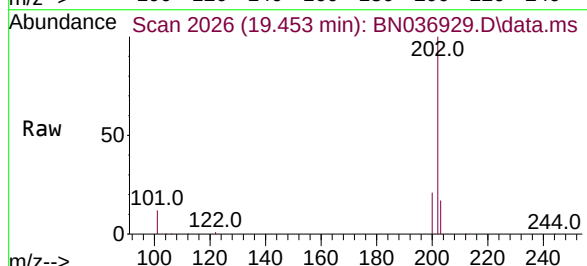
Tgt Ion:202 Resp: 160324

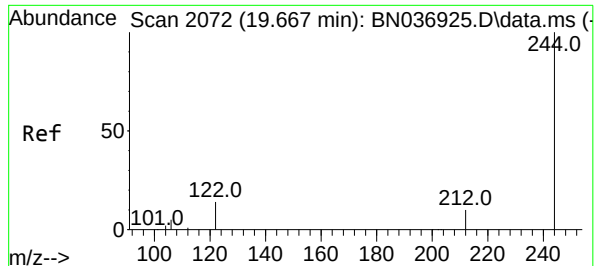
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

203 17.7 14.0 21.0

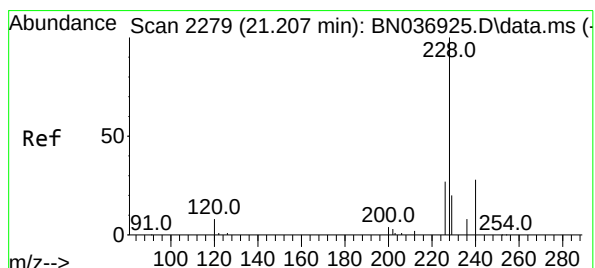
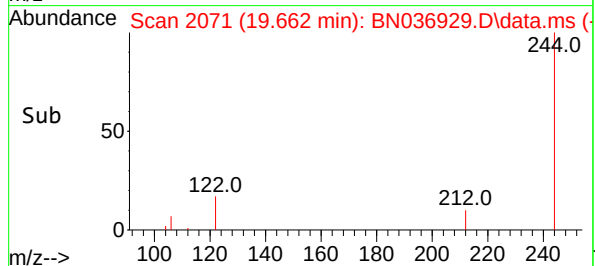
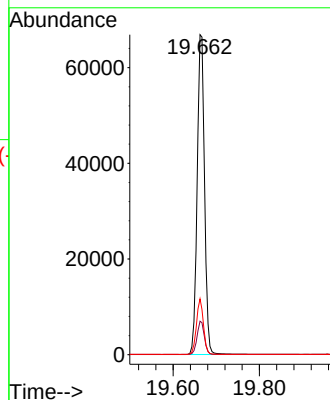
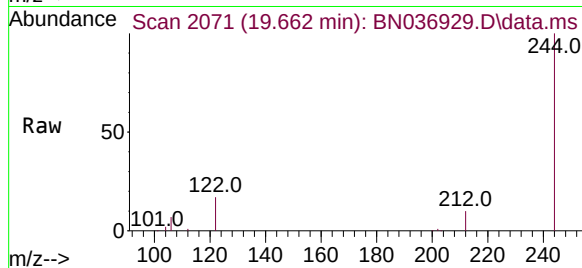




#31
Terphenyl-d14
Concen: 4.712 ng
RT: 19.662 min Scan# 2072
Delta R.T. -0.005 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

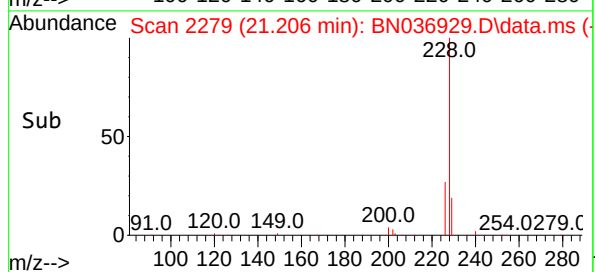
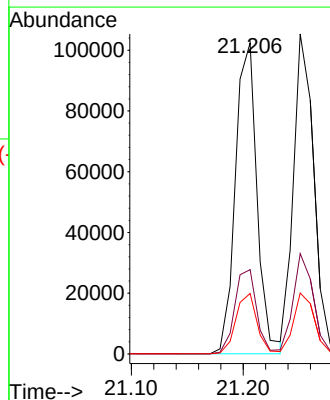
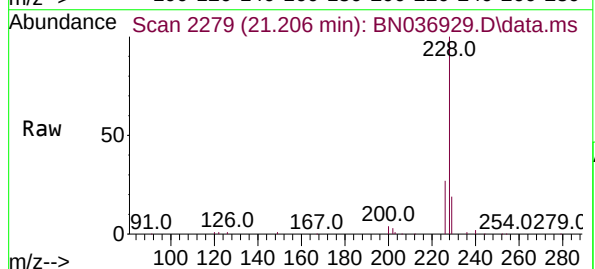
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

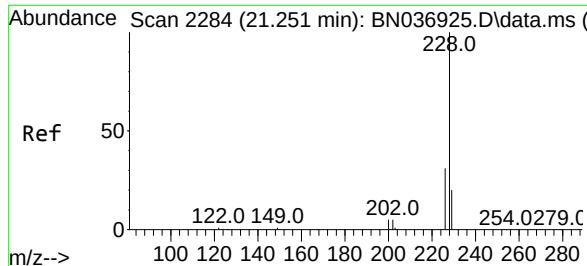
Tgt Ion:244 Resp: 78873
Ion Ratio Lower Upper
244 100
212 10.5 9.6 14.4
122 17.4 12.7 19.1



#32
Benzo(a)anthracene
Concen: 5.349 ng
RT: 21.206 min Scan# 2279
Delta R.T. -0.001 min
Lab File: BN036929.D
Acq: 28 Apr 2025 15:12

Tgt Ion:228 Resp: 137209
Ion Ratio Lower Upper
228 100
226 27.1 22.2 33.4
229 19.4 16.4 24.6





#33

Chrysene

Concen: 4.807 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

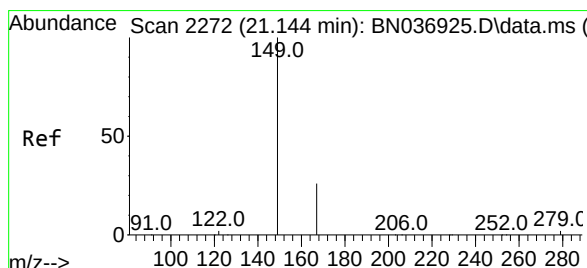
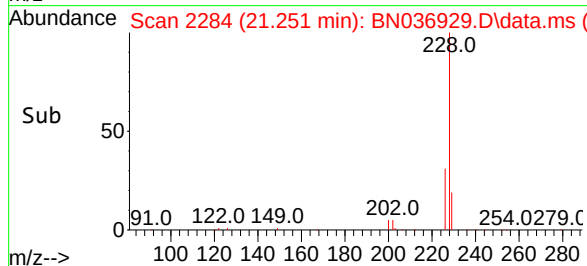
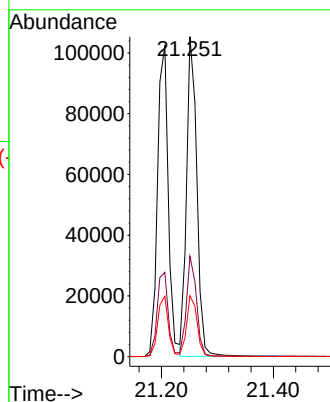
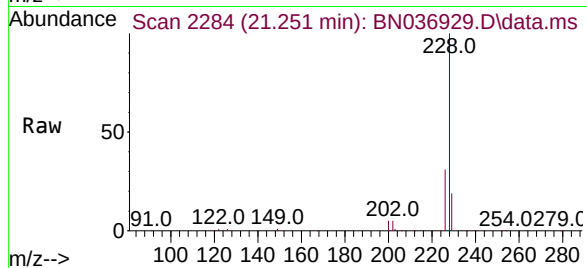
Tgt Ion:228 Resp: 135038

Ion Ratio Lower Upper

228 100

226 31.3 25.5 38.3

229 19.1 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 5.194 ng

RT: 21.143 min Scan# 2272

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

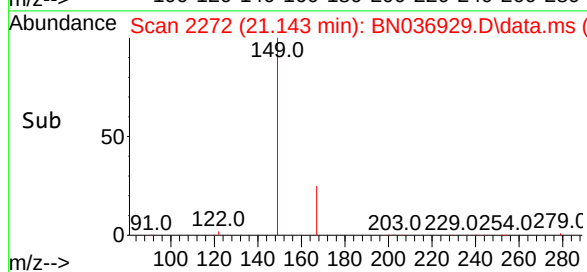
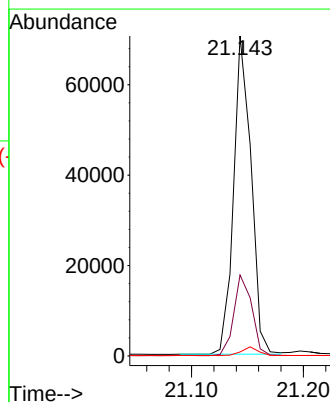
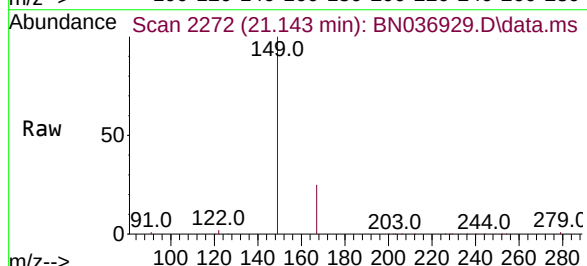
Tgt Ion:149 Resp: 76115

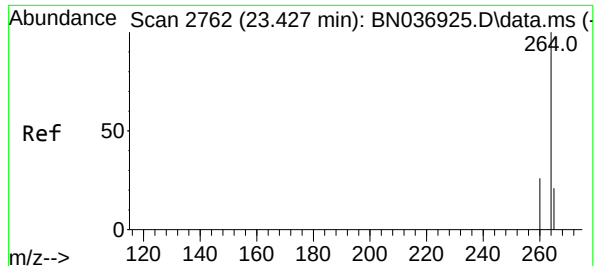
Ion Ratio Lower Upper

149 100

167 26.0 21.0 31.6

279 2.6 2.7 4.1#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.427 min Scan# 21

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

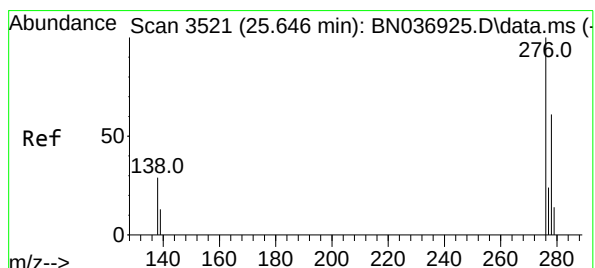
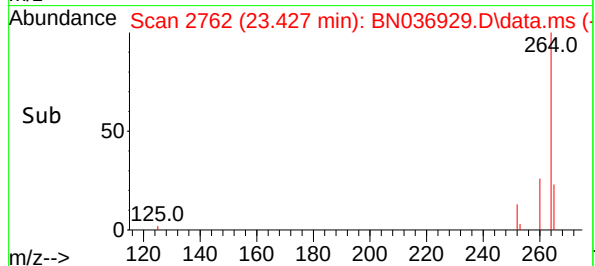
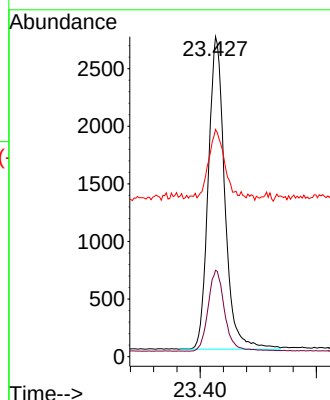
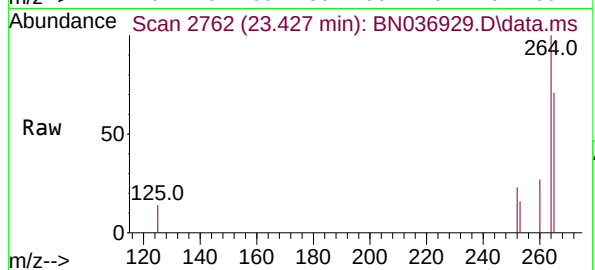
Tgt Ion:264 Resp: 5350

Ion Ratio Lower Upper

264 100

260 27.0 22.2 33.2

265 71.0 65.8 98.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 4.911 ng

RT: 25.649 min Scan# 3522

Delta R.T. 0.002 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

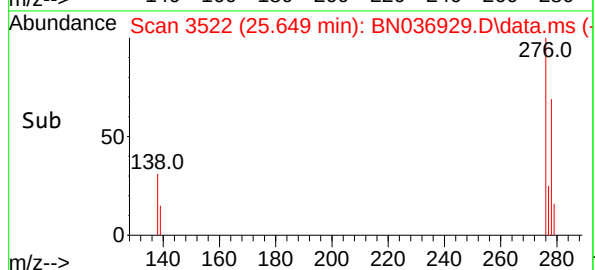
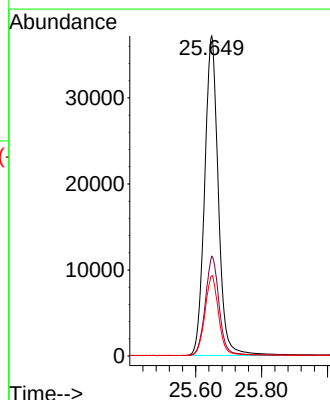
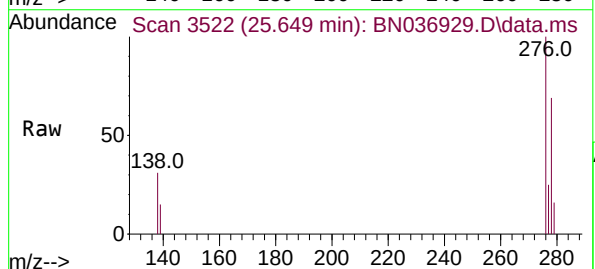
Tgt Ion:276 Resp: 107583

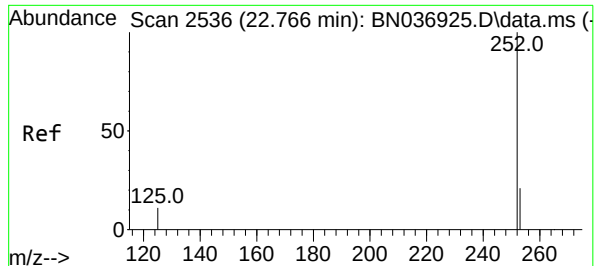
Ion Ratio Lower Upper

276 100

138 31.3 23.0 34.6

277 25.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 5.504 ng

RT: 22.766 min Scan# 2536

Delta R.T. -0.001 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

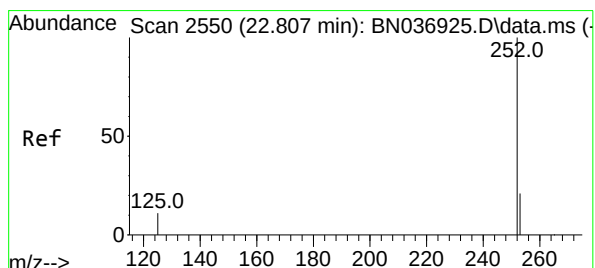
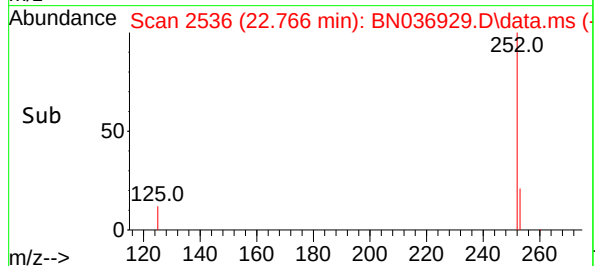
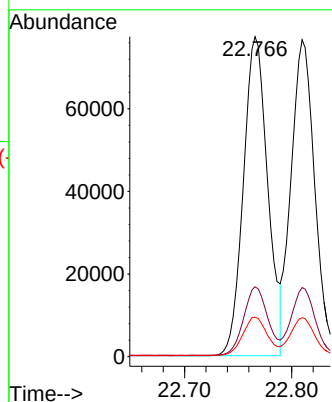
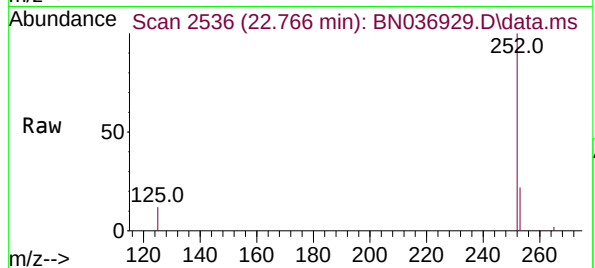
Tgt Ion:252 Resp: 122058

Ion Ratio Lower Upper

252 100

253 21.9 22.1 33.1#

125 12.3 14.2 21.2#



#38

Benzo(k)fluoranthene

Concen: 5.325 ng

RT: 22.810 min Scan# 2551

Delta R.T. 0.002 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

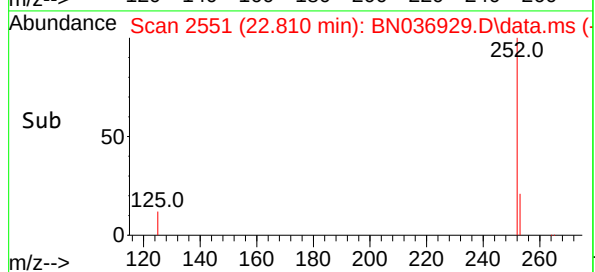
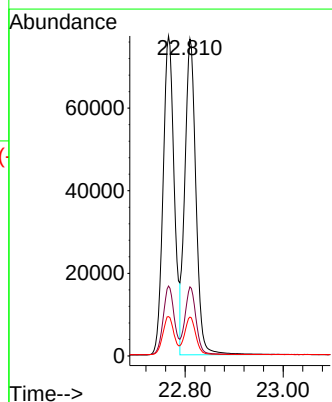
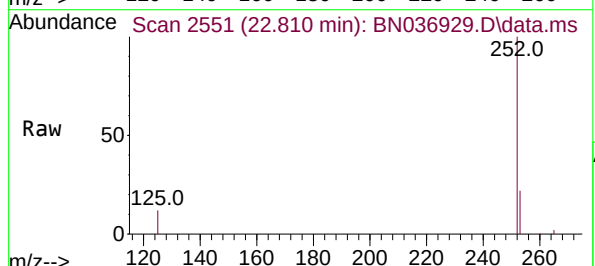
Tgt Ion:252 Resp: 119359

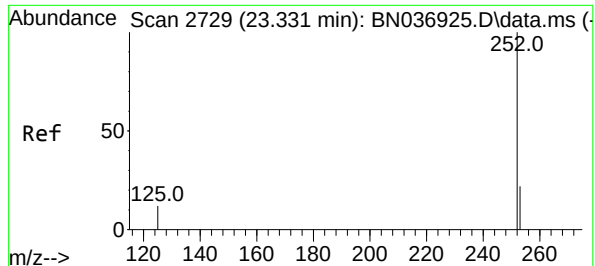
Ion Ratio Lower Upper

252 100

253 21.8 22.8 34.2#

125 12.3 14.2 21.2#





#39

Benzo(a)pyrene

Concen: 5.402 ng

RT: 23.333 min Scan# 21

Delta R.T. 0.002 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

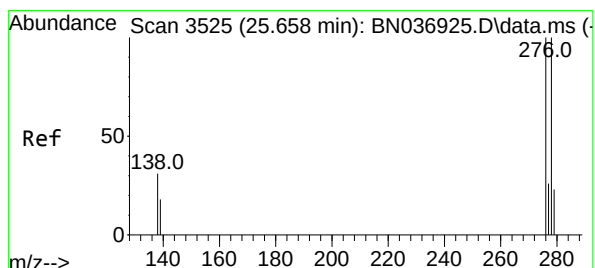
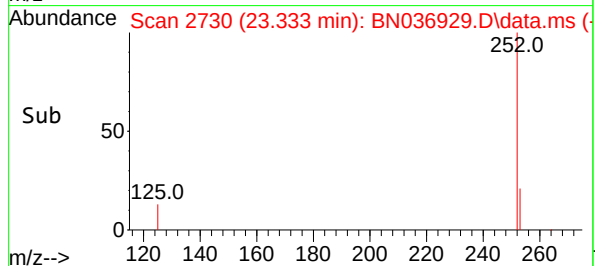
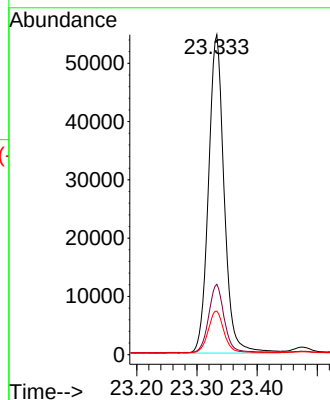
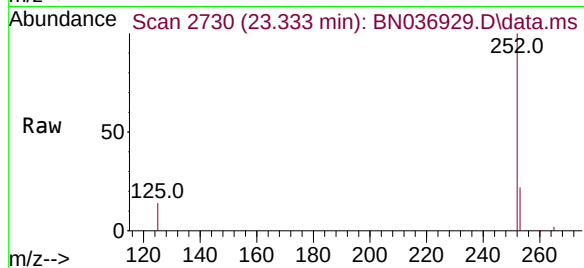
Tgt Ion:252 Resp: 98753

Ion Ratio Lower Upper

252 100

253 22.0 25.9 38.9#

125 13.6 17.4 26.0#



#40

Dibenzo(a,h)anthracene

Concen: 4.920 ng

RT: 25.660 min Scan# 3526

Delta R.T. 0.002 min

Lab File: BN036929.D

Acq: 28 Apr 2025 15:12

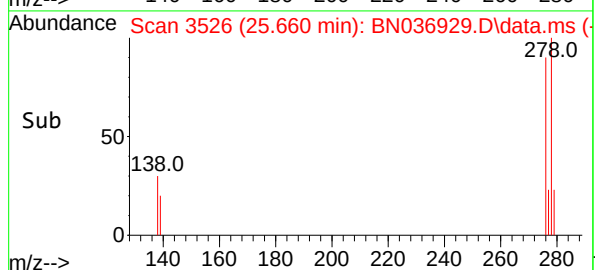
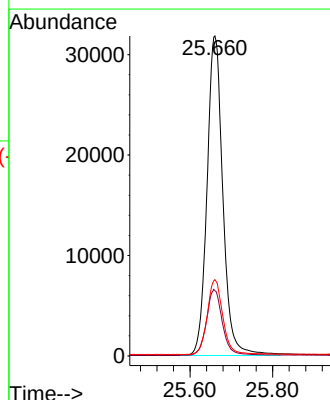
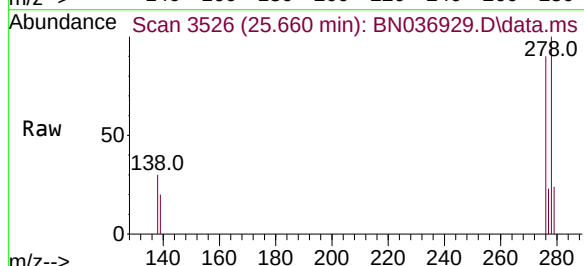
Tgt Ion:278 Resp: 84789

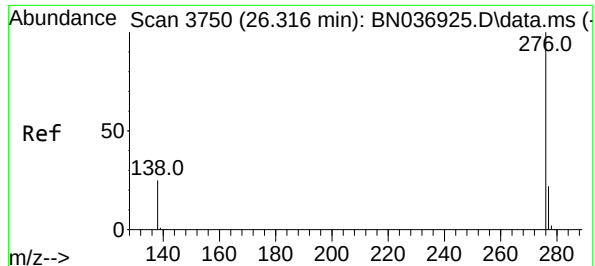
Ion Ratio Lower Upper

278 100

139 20.4 17.4 26.2

279 23.8 24.9 37.3#





#41

Benzo(g,h,i)perylene

Concen: 4.643 ng

RT: 26.324 min Scan# 31

Delta R.T. 0.008 min

Lab File: BN036929.D

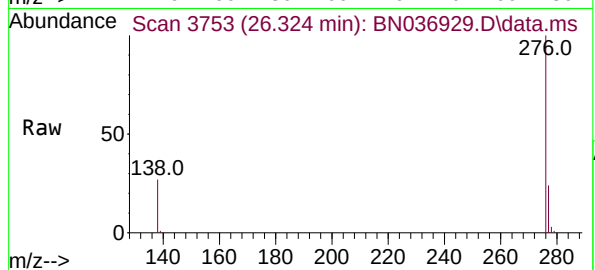
Acq: 28 Apr 2025 15:12

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



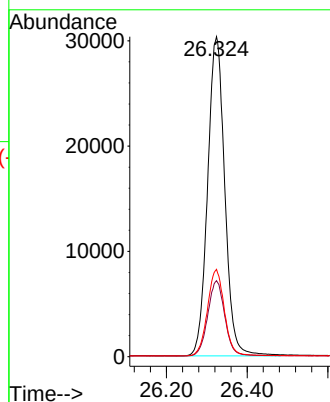
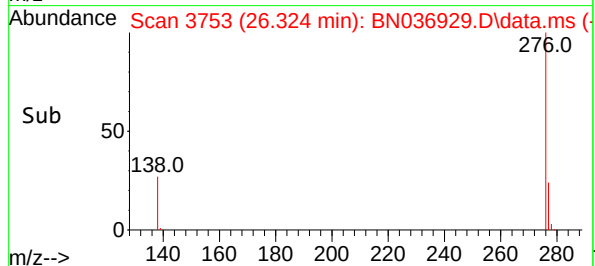
Tgt Ion:276 Resp: 89523

Ion Ratio Lower Upper

276 100

277 23.7 20.2 30.2

138 27.3 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036930.D
 Acq On : 28 Apr 2025 15:51
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN042825

Quant Time: Apr 28 18:00:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

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

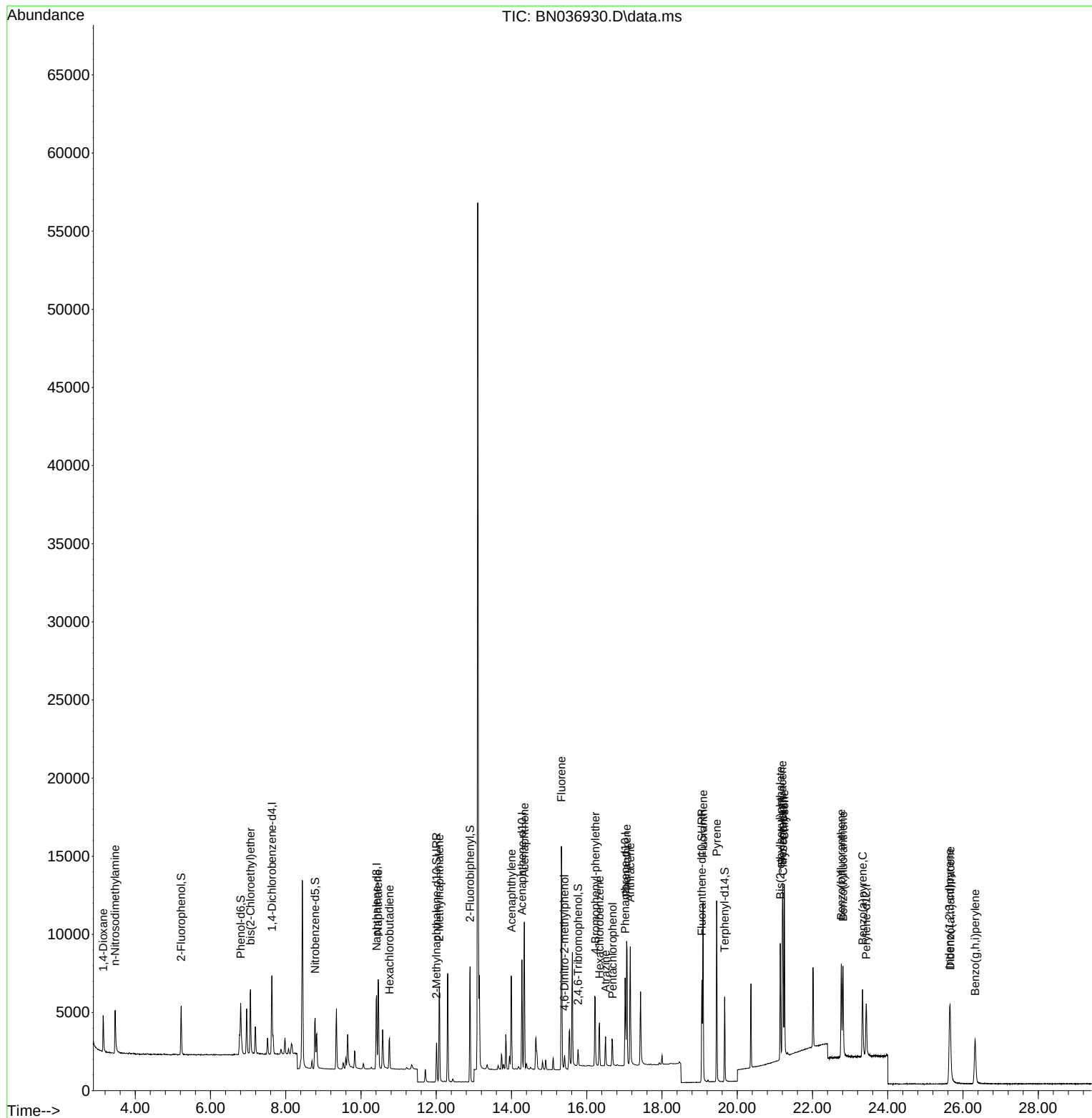
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.633	152	2409	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	6199	0.400	ng	0.00
13) Acenaphthene-d10	14.277	164	3595	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	7165	0.400	ng	0.00
29) Chrysene-d12	21.215	240	5561	0.400	ng	0.00
35) Perylene-d12	23.427	264	4453	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	2200	0.357	ng	0.00
5) Phenol-d6	6.802	99	2639	0.348	ng	0.00
8) Nitrobenzene-d5	8.781	82	2643	0.408	ng	0.00
11) 2-Methylnaphthalene-d10	12.006	152	3565	0.411	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	524	0.327	ng	0.00
15) 2-Fluorobiphenyl	12.898	172	6791	0.391	ng	0.00
27) Fluoranthene-d10	19.059	212	7362	0.396	ng	0.00
31) Terphenyl-d14	19.667	244	5345	0.407	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.148	88	1307	0.435	ng	96
3) n-Nitrosodimethylamine	3.465	42	2382	0.409	ng	# 98
6) bis(2-Chloroethyl)ether	7.062	93	2960	0.421	ng	97
9) Naphthalene	10.458	128	7201	0.399	ng	100
10) Hexachlorobutadiene	10.757	225	1616	0.414	ng	# 98
12) 2-Methylnaphthalene	12.082	142	4278	0.367	ng	100
16) Acenaphthylene	13.999	152	7225	0.411	ng	100
17) Acenaphthene	14.341	154	4406	0.382	ng	100
18) Fluorene	15.325	166	5893	0.390	ng	100
20) 4,6-Dinitro-2-methylph...	15.410	198	612	0.323	ng	91
21) 4-Bromophenyl-phenylether	16.227	248	1798	0.376	ng	96
22) Hexachlorobenzene	16.338	284	2026	0.387	ng	99
23) Atrazine	16.500	200	1554	0.403	ng	99
24) Pentachlorophenol	16.686	266	885	0.315	ng	99
25) Phenanthrene	17.058	178	9212	0.390	ng	100
26) Anthracene	17.157	178	8400	0.393	ng	100
28) Fluoranthene	19.091	202	10081	0.380	ng	99
30) Pyrene	19.453	202	10076	0.376	ng	100
32) Benzo(a)anthracene	21.197	228	8105	0.396	ng	98
33) Chrysene	21.251	228	8947	0.405	ng	99
34) Bis(2-ethylhexyl)phtha...	21.144	149	4190	0.360	ng	99
36) Indeno(1,2,3-cd)pyrene	25.640	276	6626	0.364	ng	99
37) Benzo(b)fluoranthene	22.763	252	7283	0.389	ng	99
38) Benzo(k)fluoranthene	22.810	252	7655	0.407	ng	98
39) Benzo(a)pyrene	23.330	252	6417	0.417	ng	97
40) Dibenzo(a,h)anthracene	25.663	278	5177	0.362	ng	99
41) Benzo(g,h,i)perylene	26.321	276	5705	0.359	ng	98

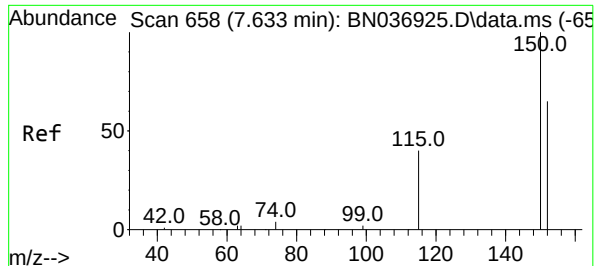
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036930.D
Acq On : 28 Apr 2025 15:51
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN042825

Quant Time: Apr 28 18:00:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

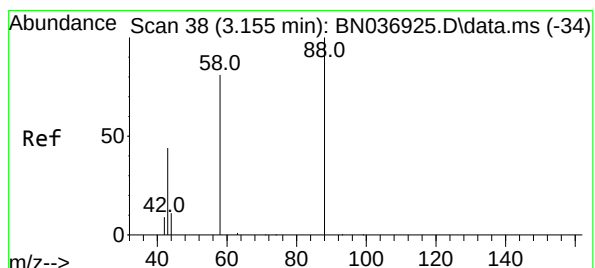
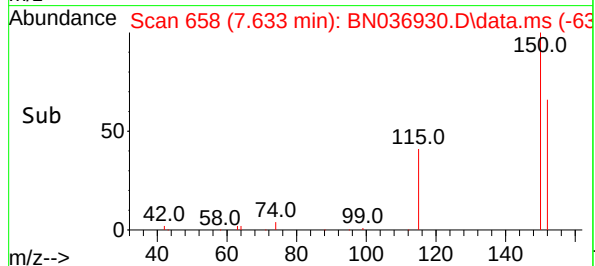
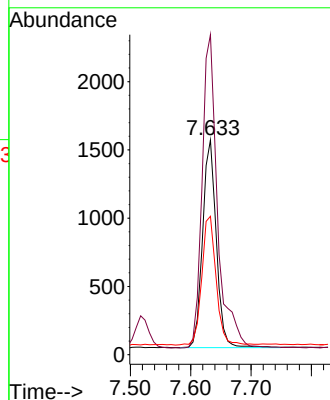
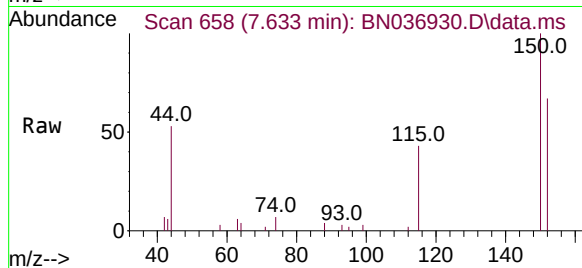




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.633 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

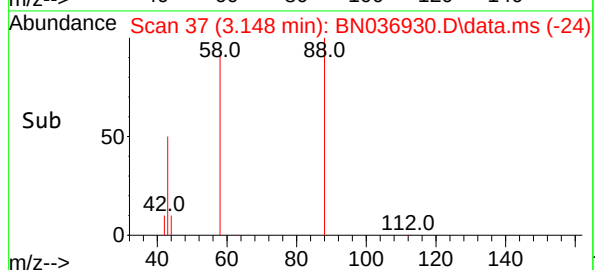
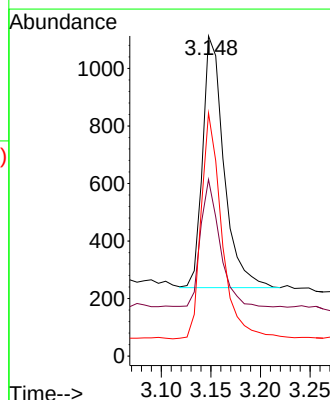
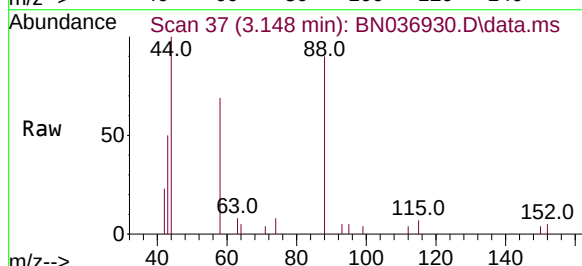
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

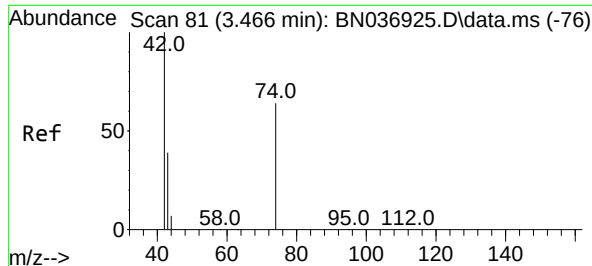
Tgt Ion: 152 Resp: 2409
Ion Ratio Lower Upper
152 100
150 149.0 121.1 181.7
115 64.5 51.8 77.6



#2
1,4-Dioxane
Concen: 0.435 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion: 88 Resp: 1307
Ion Ratio Lower Upper
88 100
43 46.8 37.9 56.9
58 87.2 65.8 98.6

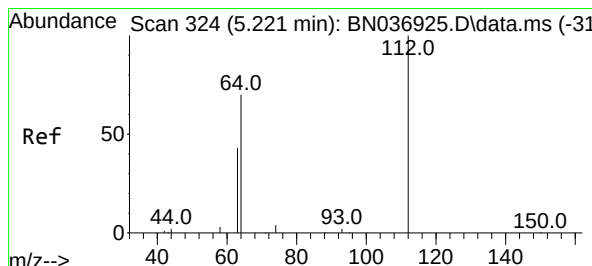
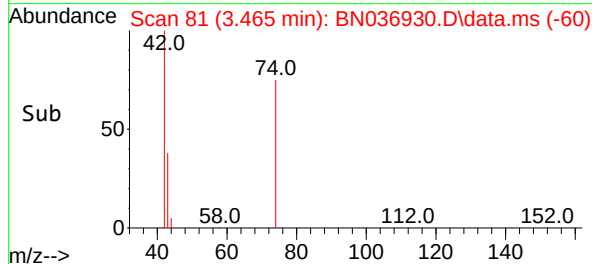
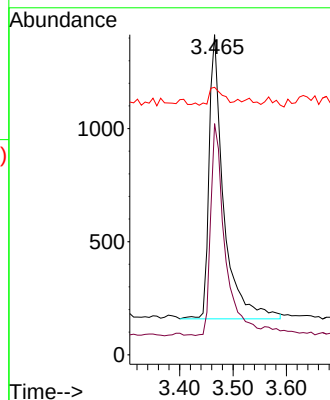
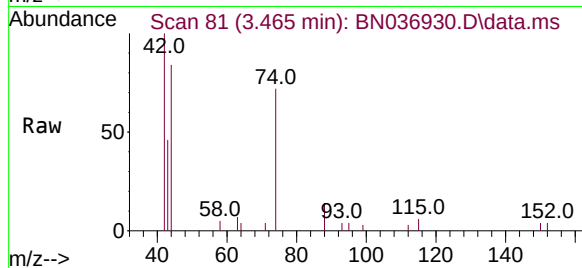




#3
n-Nitrosodimethylamine
Concen: 0.409 ng
RT: 3.465 min Scan# 81
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

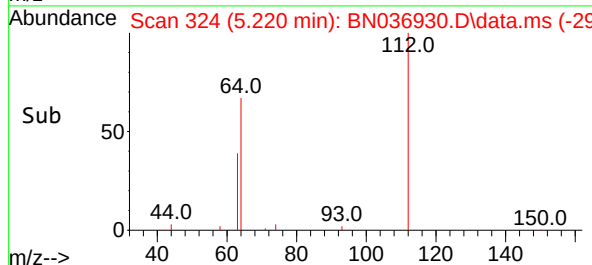
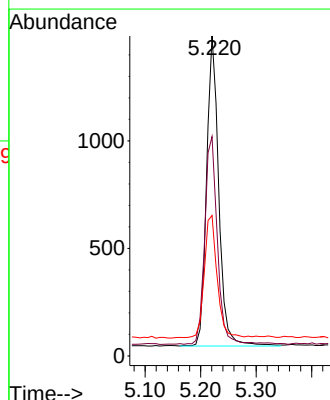
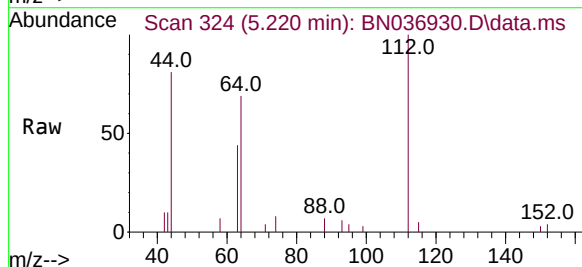
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

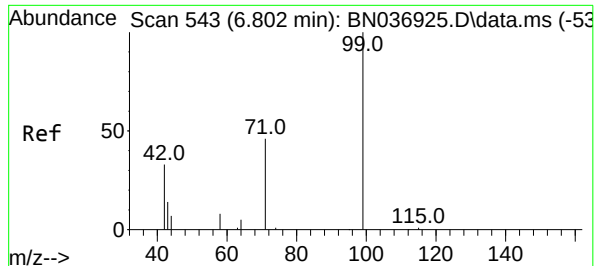
Tgt Ion: 42 Resp: 2382
Ion Ratio Lower Upper
42 100
74 73.5 59.9 89.9
44 6.3 7.5 11.3#



#4
2-Fluorophenol
Concen: 0.357 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion: 112 Resp: 2200
Ion Ratio Lower Upper
112 100
64 69.0 55.7 83.5
63 41.9 33.9 50.9

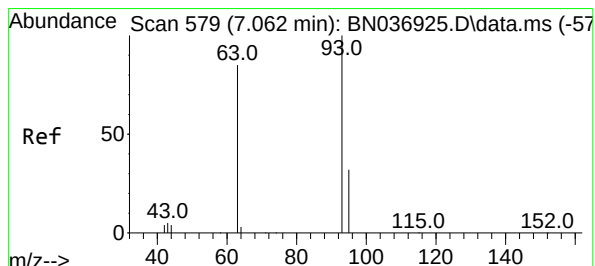
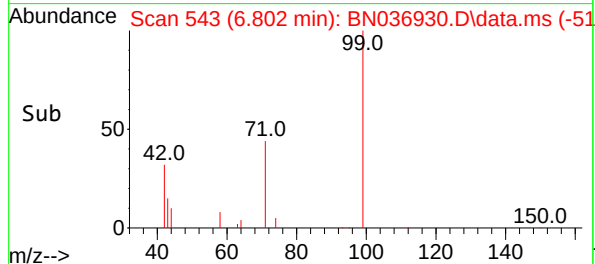
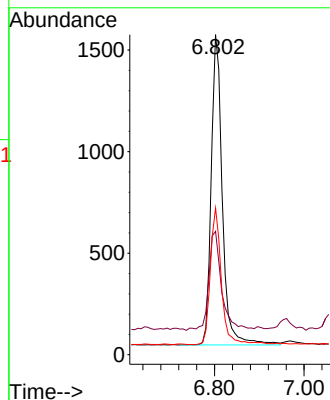
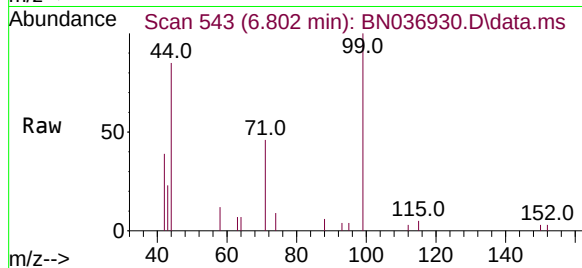




#5
Phenol-d6
Concen: 0.348 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

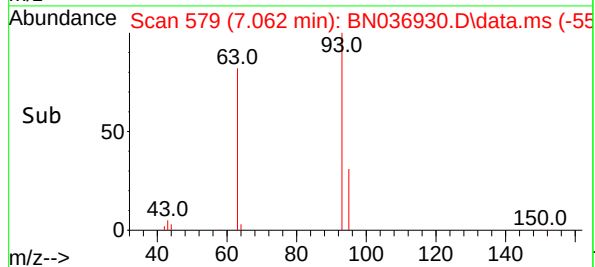
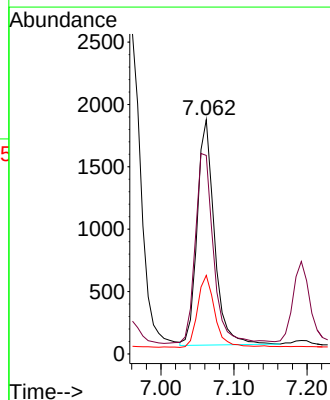
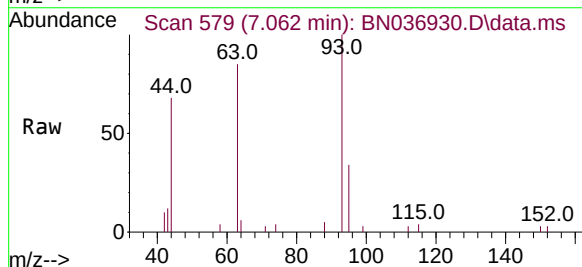
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

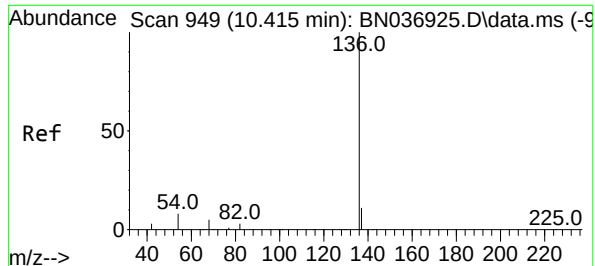
Tgt Ion	Ratio	Lower	Upper
99	100		
42	36.9	29.6	44.4
71	43.1	36.0	54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.421 ng
RT: 7.062 min Scan# 579
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion	Ratio	Lower	Upper
93	100		
63	89.5	69.0	103.6
95	31.8	25.4	38.0

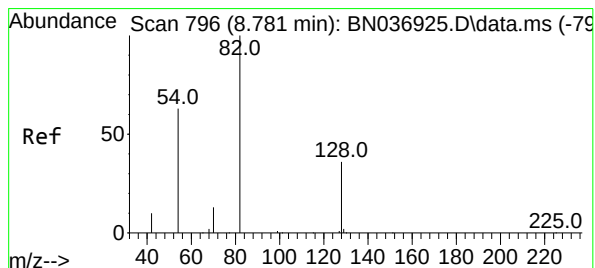
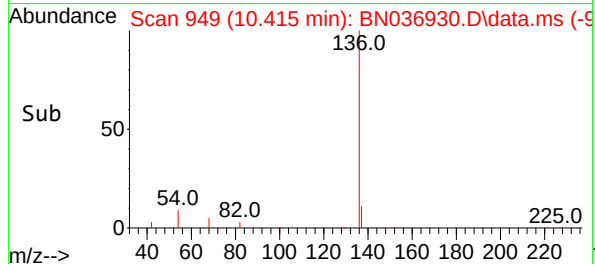
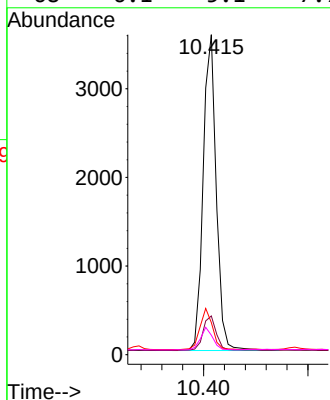
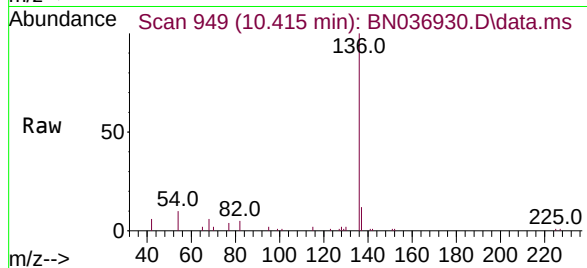




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

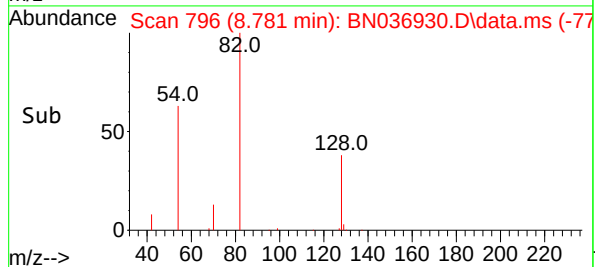
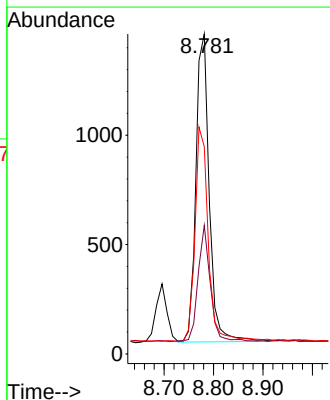
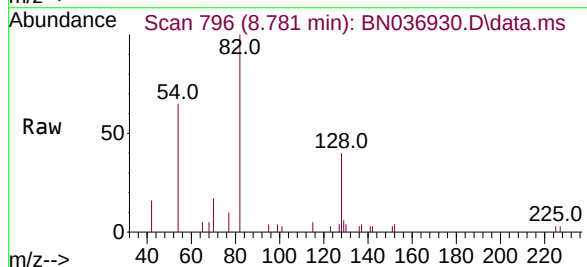
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

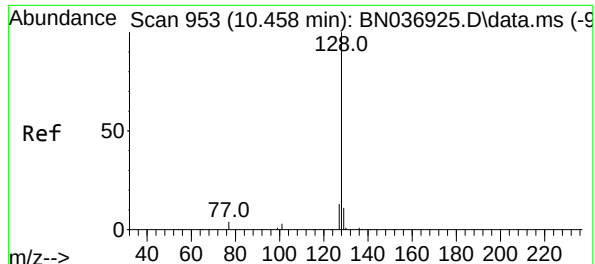
Tgt Ion:	136	Resp:	6199
Ion	Ratio	Lower	Upper
136	100		
137	12.1	9.7	14.5
54	10.1	8.0	12.0
68	6.1	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.408 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:	82	Resp:	2643
Ion	Ratio	Lower	Upper
82	100		
128	40.2	30.7	46.1
54	64.7	52.1	78.1

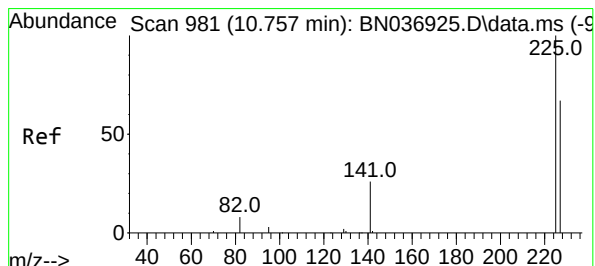
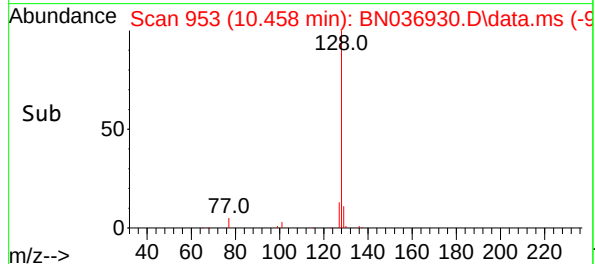
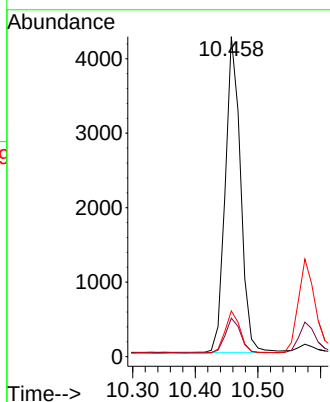
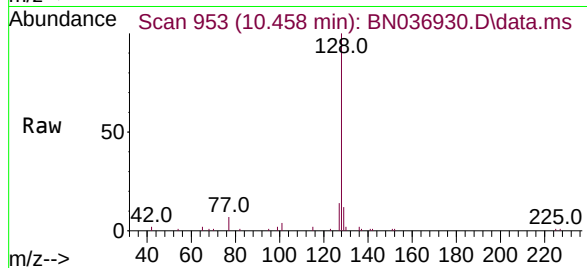




#9
Naphthalene
Concen: 0.399 ng
RT: 10.458 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

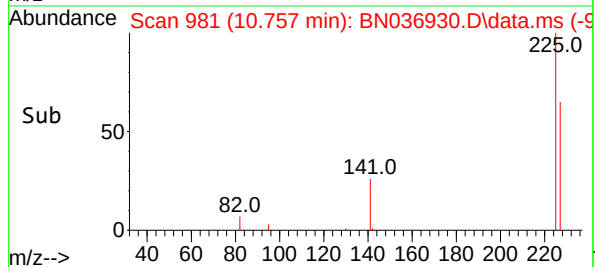
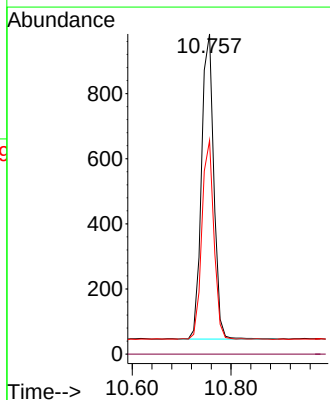
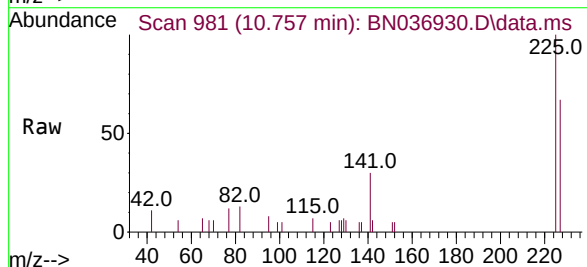
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

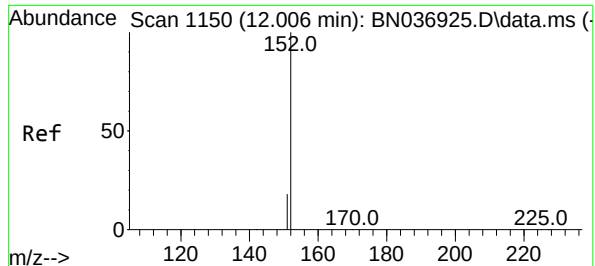
Tgt Ion:128 Resp: 7201
Ion Ratio Lower Upper
128 100
129 12.1 9.8 14.6
127 14.3 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.414 ng
RT: 10.757 min Scan# 981
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:225 Resp: 1616
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 52.2 78.4

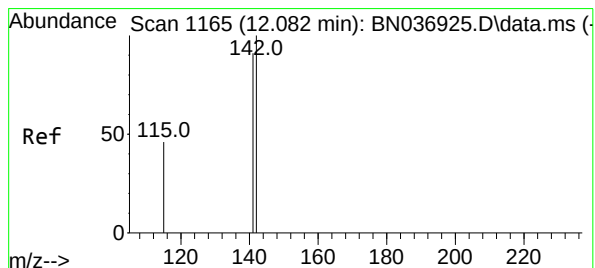
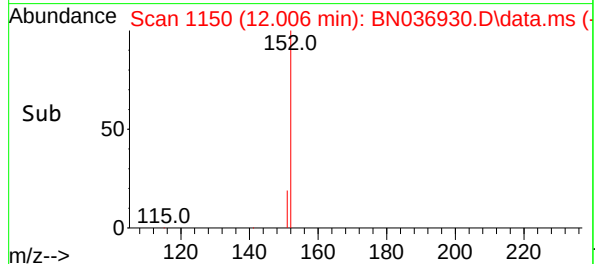
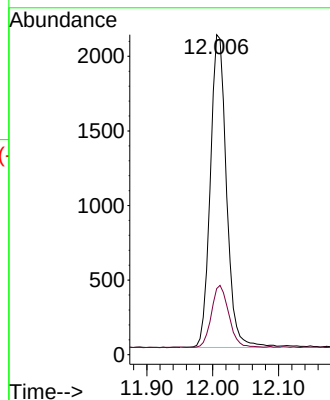
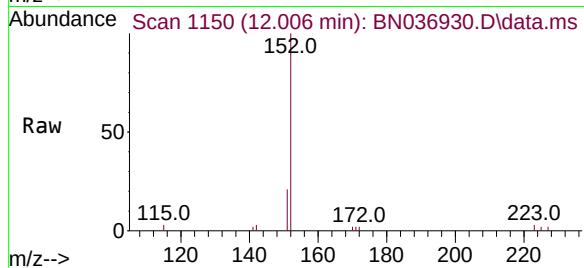




#11
2-Methylnaphthalene-d10
Concen: 0.411 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

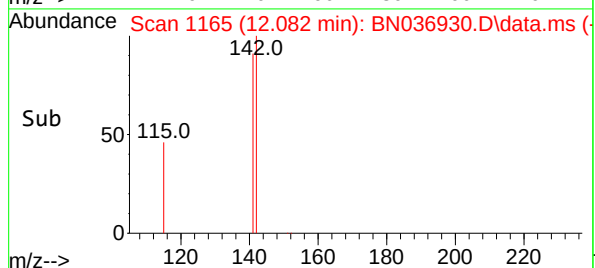
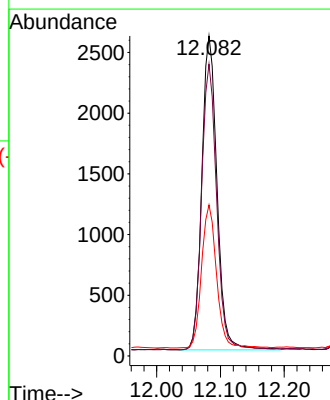
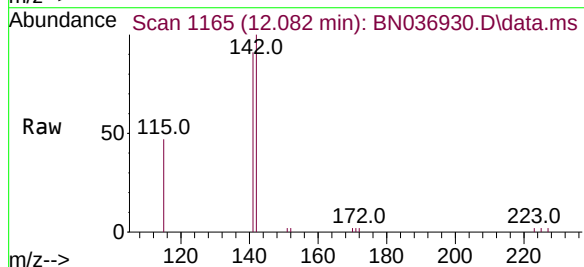
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

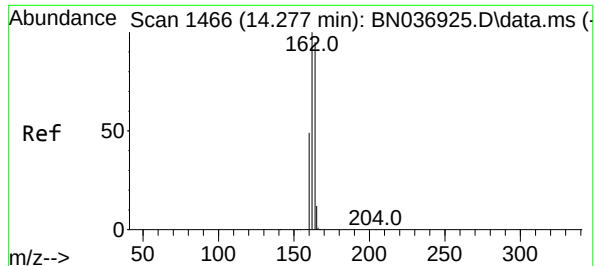
Tgt Ion:152 Resp: 3565
Ion Ratio Lower Upper
152 100
151 21.3 16.9 25.3



#12
2-Methylnaphthalene
Concen: 0.367 ng
RT: 12.082 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:142 Resp: 4278
Ion Ratio Lower Upper
142 100
141 91.2 72.8 109.2
115 47.2 38.2 57.4

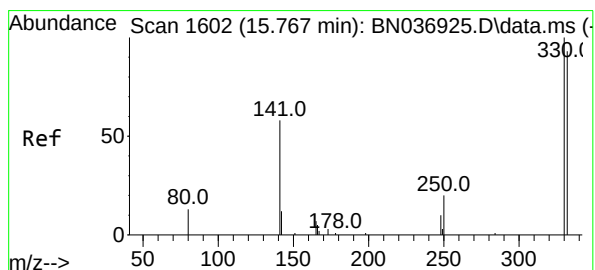
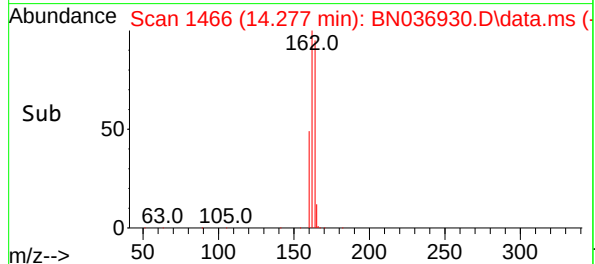
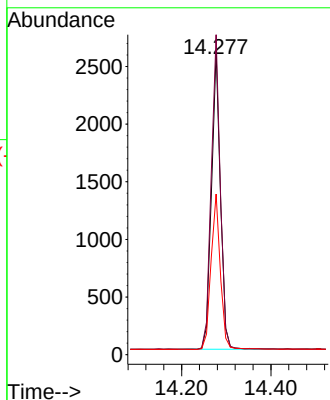
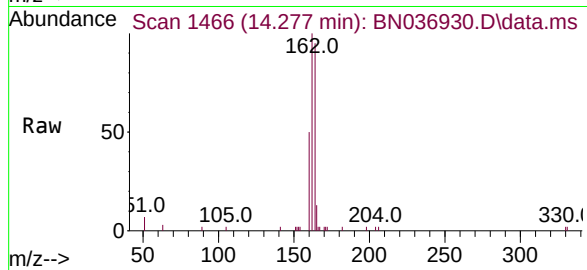




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

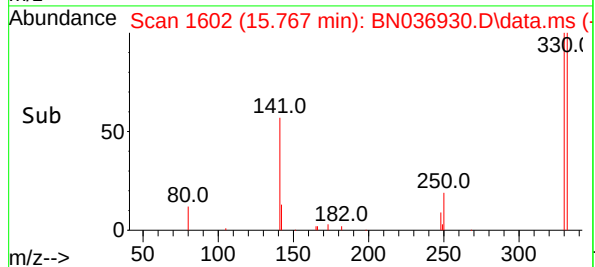
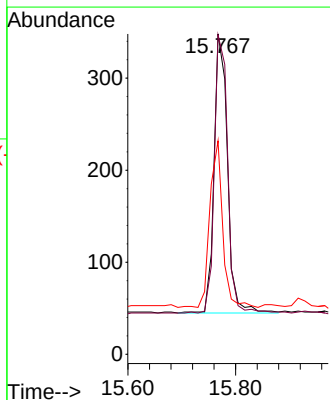
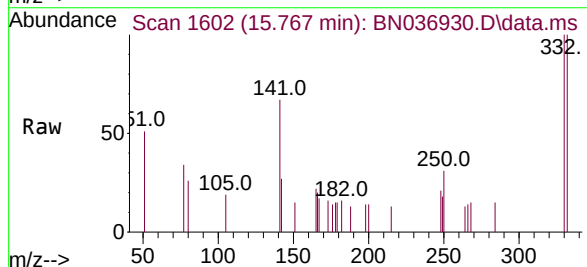
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

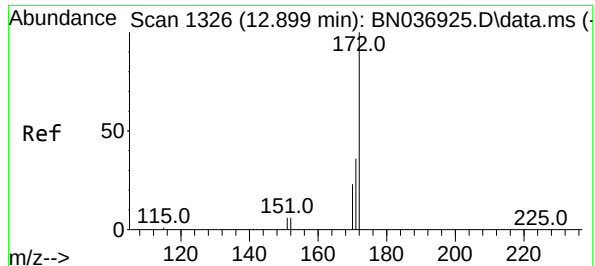
Tgt Ion:164 Resp: 3595
Ion Ratio Lower Upper
164 100
162 105.4 83.8 125.8
160 52.9 42.0 63.0



#14
2,4,6-Tribromophenol
Concen: 0.327 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:330 Resp: 524
Ion Ratio Lower Upper
330 100
332 98.9 76.3 114.5
141 56.5 45.4 68.2

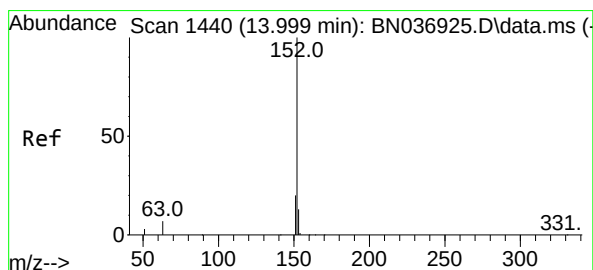
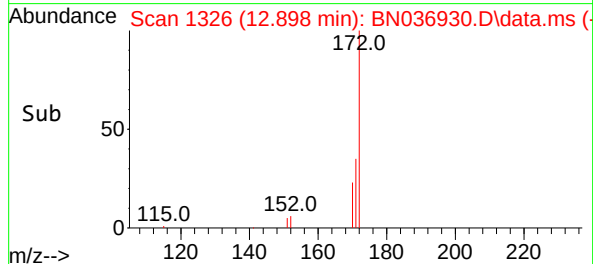
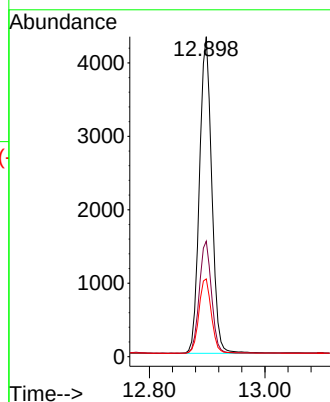
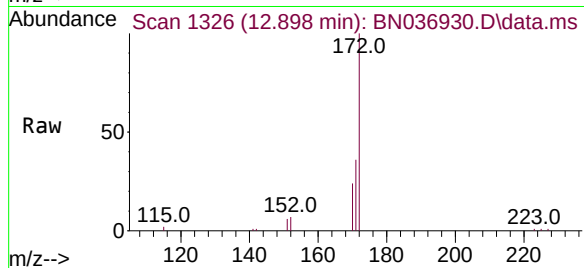




#15
2-Fluorobiphenyl
Concen: 0.391 ng
RT: 12.898 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

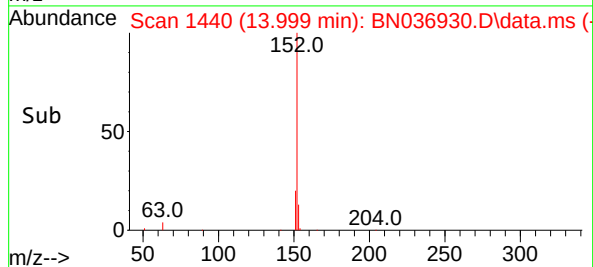
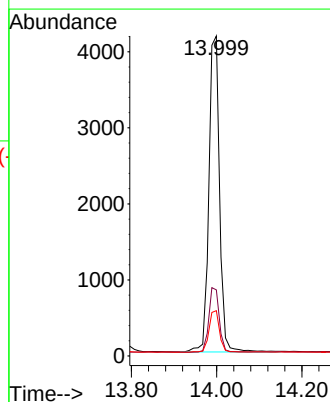
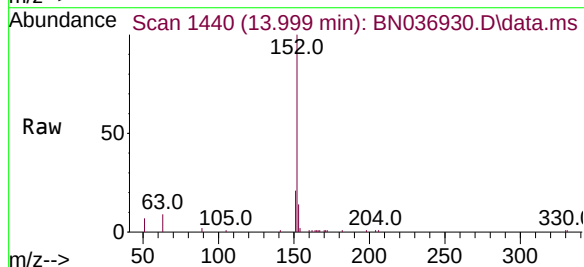
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

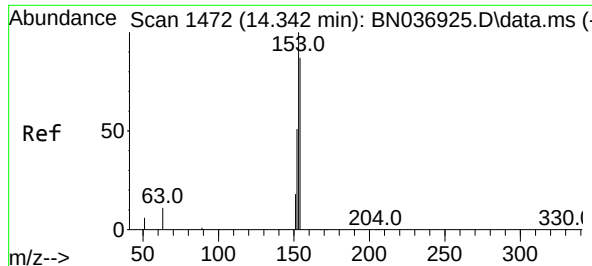
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.4	44.0
170	24.3	19.4	29.0



#16
Acenaphthylene
Concen: 0.411 ng
RT: 13.999 min Scan# 1440
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.0	24.0
153	13.0	10.2	15.2

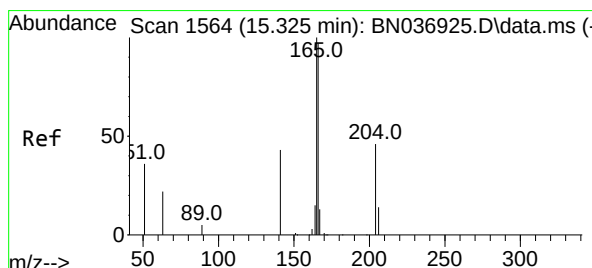
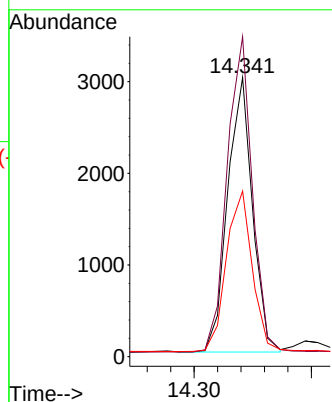
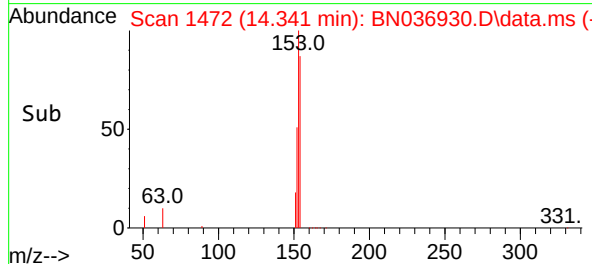
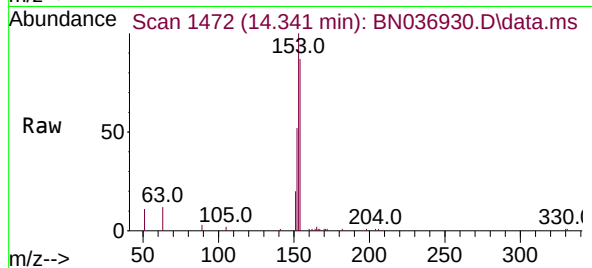




#17
Acenaphthene
Concen: 0.382 ng
RT: 14.341 min Scan# 1472
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

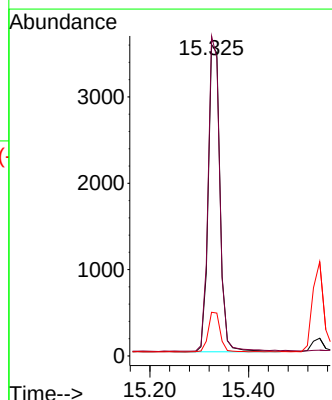
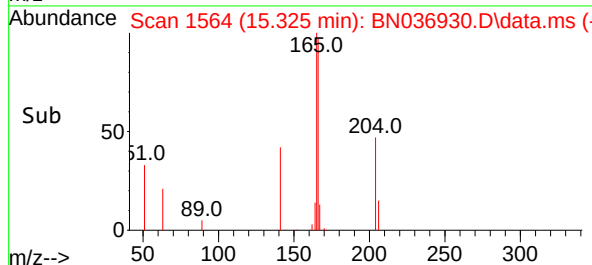
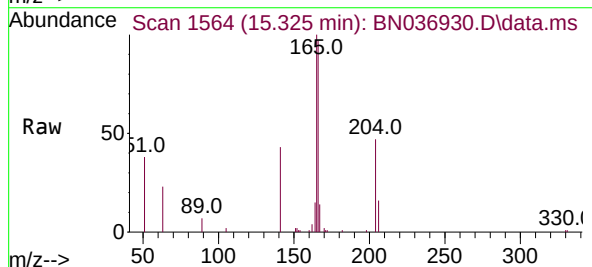
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

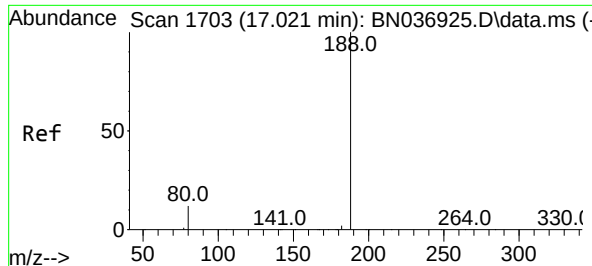
Tgt Ion:154 Resp: 4406
Ion Ratio Lower Upper
154 100
153 116.8 93.4 140.2
152 61.9 49.5 74.3



#18
Fluorene
Concen: 0.390 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion:166 Resp: 5893
Ion Ratio Lower Upper
166 100
165 100.7 80.8 121.2
167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

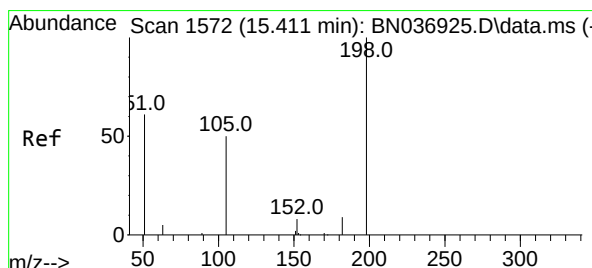
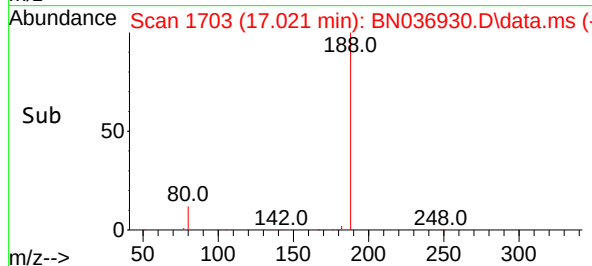
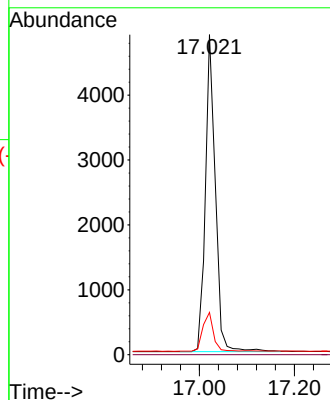
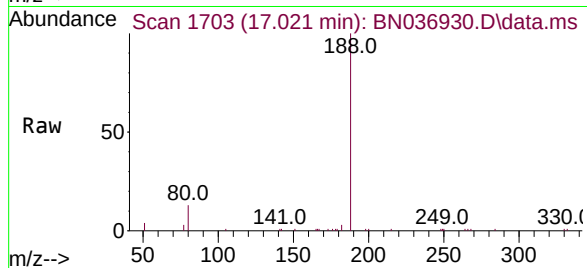
Tgt Ion:188 Resp: 7165

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.2 10.7 16.1



#20

4,6-Dinitro-2-methylphenol

Concen: 0.323 ng

RT: 15.410 min Scan# 1572

Delta R.T. -0.001 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

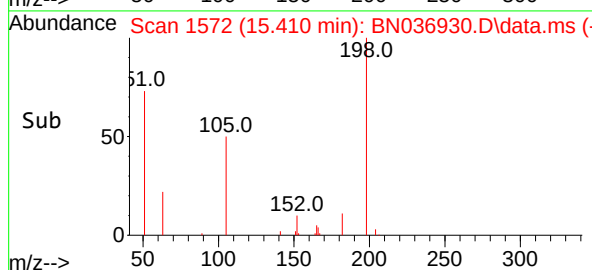
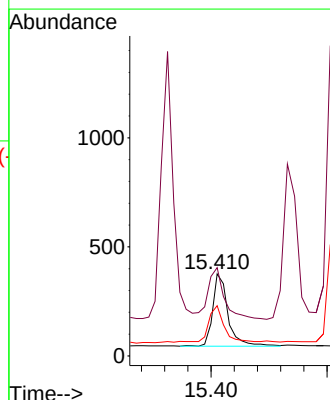
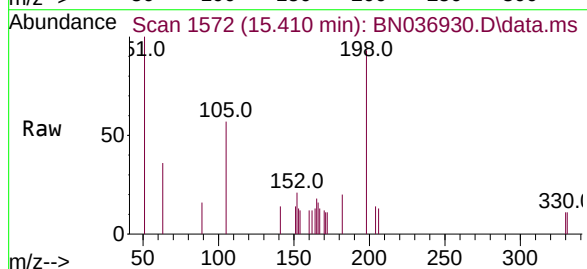
Tgt Ion:198 Resp: 612

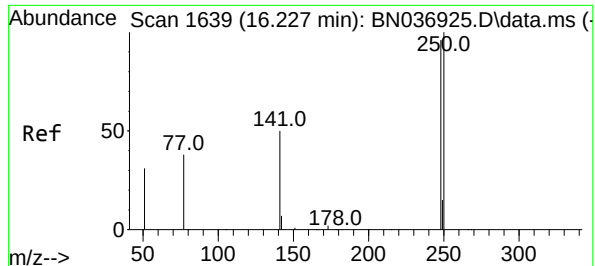
Ion Ratio Lower Upper

198 100

51 107.7 97.9 146.9

105 61.2 50.0 75.0

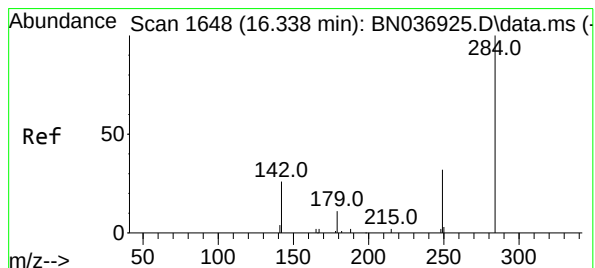
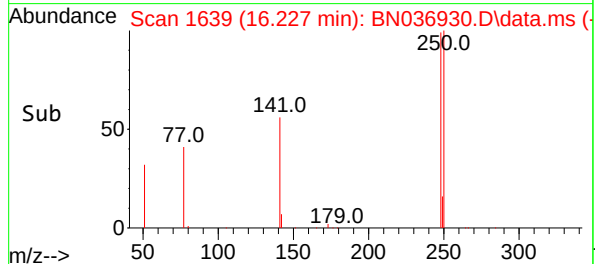
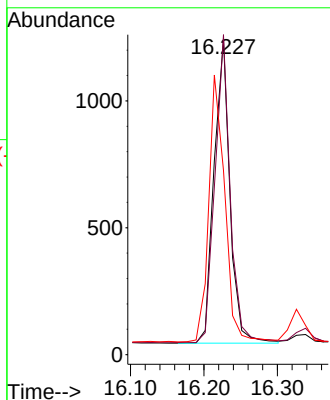
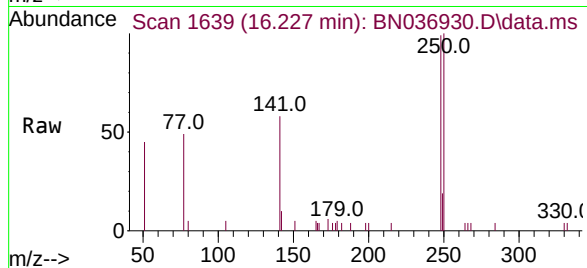




#21
4-Bromophenyl-phenylether
Concen: 0.376 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

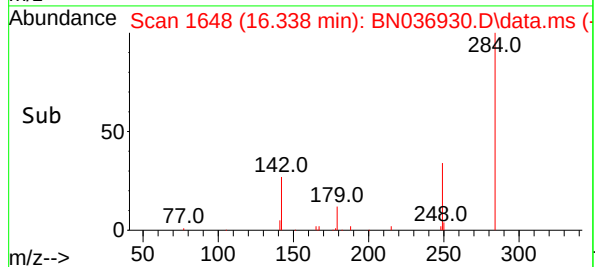
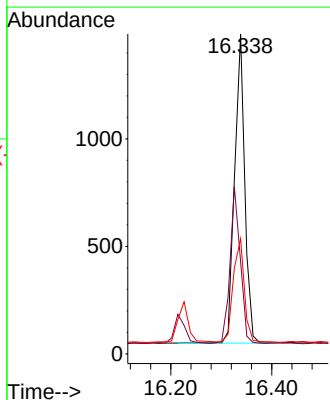
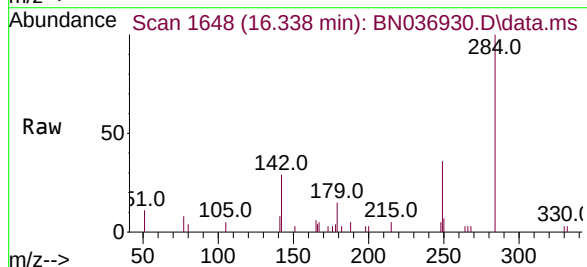
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

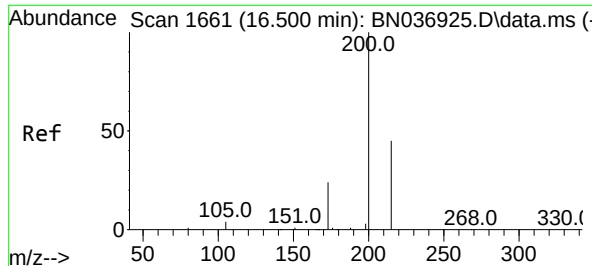
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.3	83.7	125.5
141	58.3	43.8	65.8



#22
Hexachlorobenzene
Concen: 0.387 ng
RT: 16.338 min Scan# 1648
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion	Ratio	Lower	Upper
284	100		
142	50.7	40.0	60.0
249	36.4	28.2	42.2

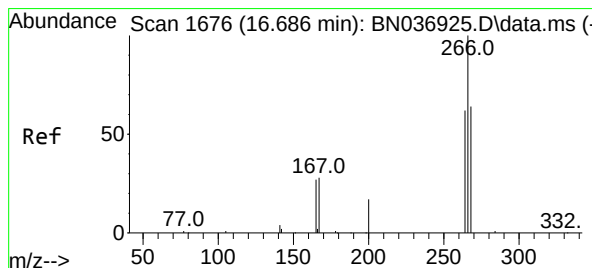
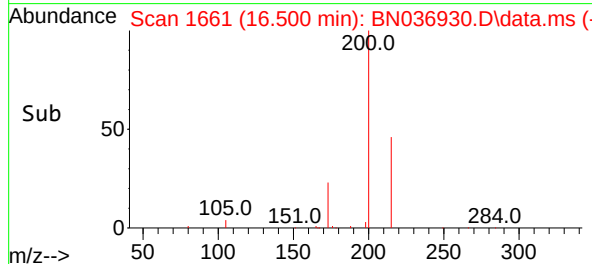
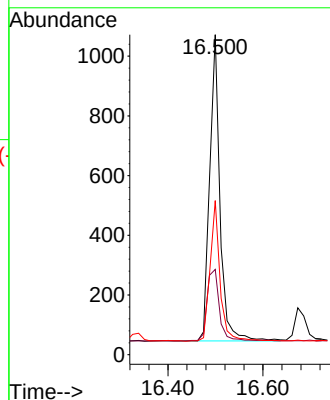
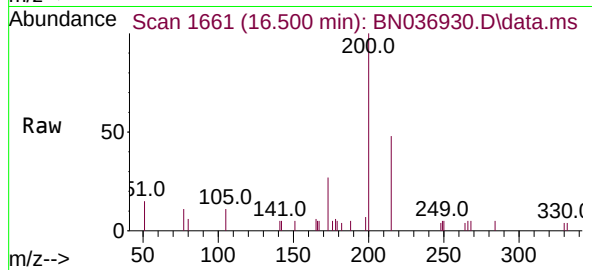




#23
Atrazine
Concen: 0.403 ng
RT: 16.500 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

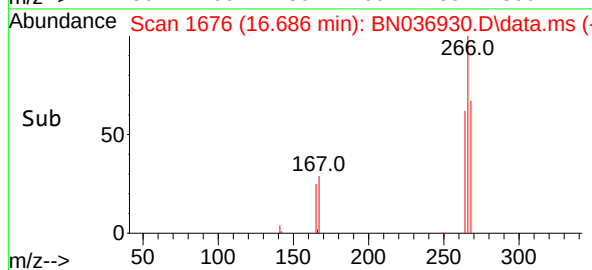
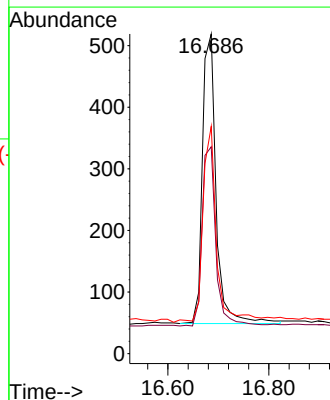
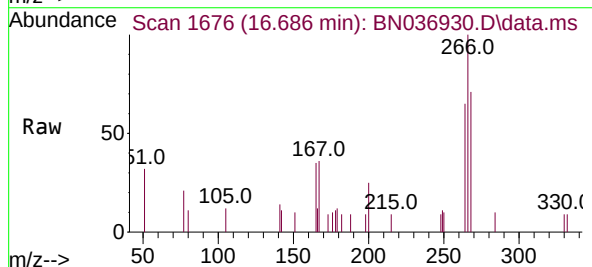
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

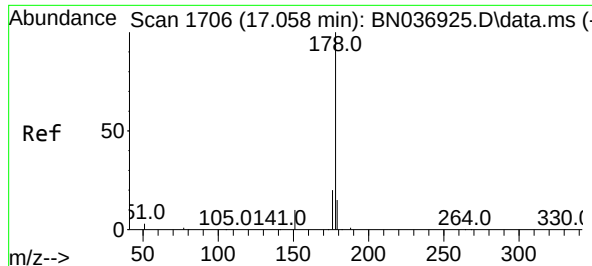
Tgt Ion	200	Resp:	1554
Ion Ratio	Lower	Upper	
200	100		
173	26.7	22.4	33.6
215	48.1	38.6	57.8



#24
Pentachlorophenol
Concen: 0.315 ng
RT: 16.686 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion	266	Resp:	885
Ion Ratio	Lower	Upper	
266	100		
264	62.4	49.9	74.9
268	67.1	52.2	78.4

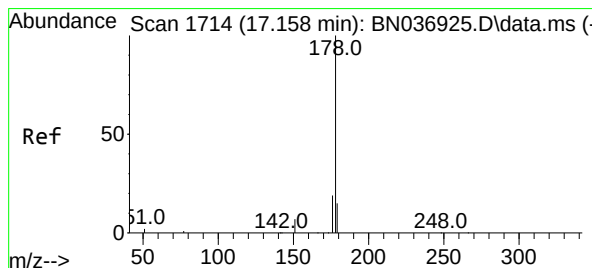
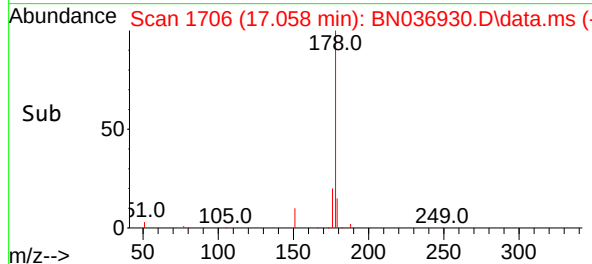
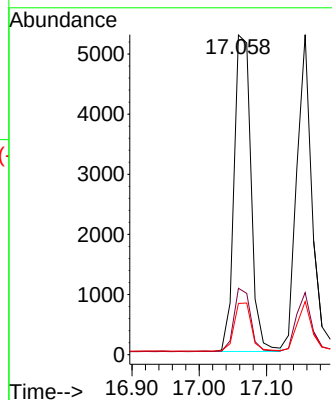
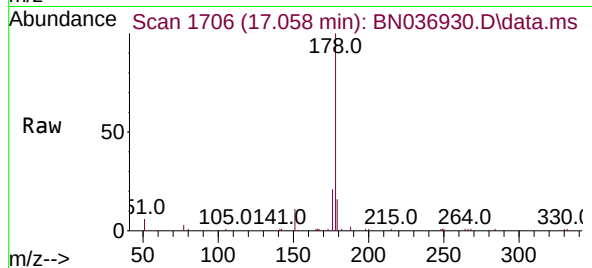




#25
Phenanthrene
Concen: 0.390 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

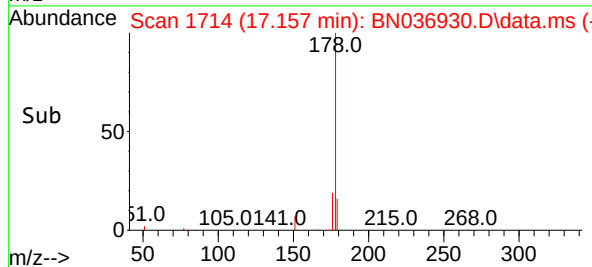
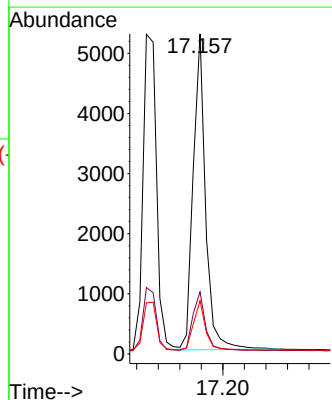
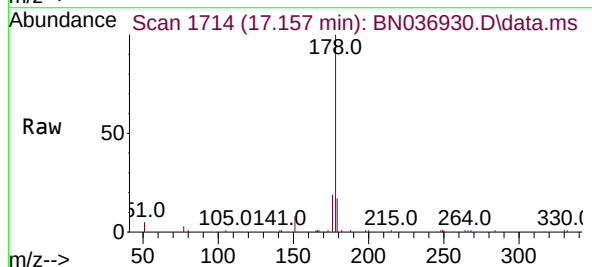
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

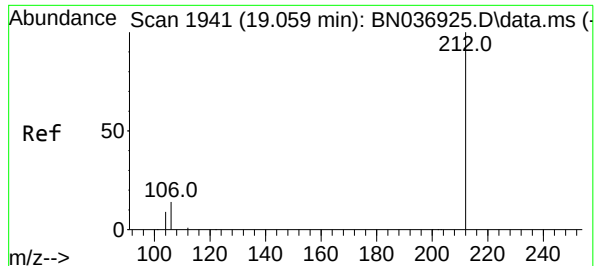
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.7	23.5
179	15.5	12.4	18.6



#26
Anthracene
Concen: 0.393 ng
RT: 17.157 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.1	12.1	18.1

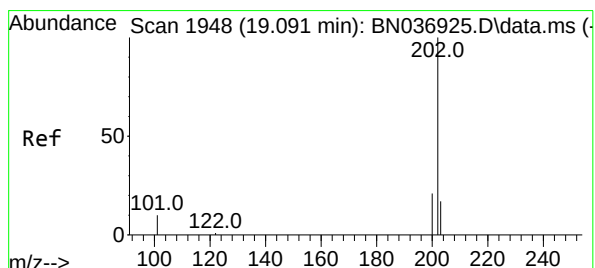
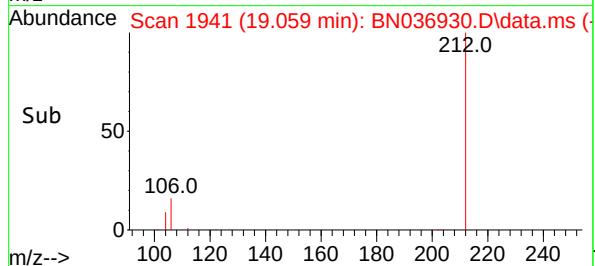
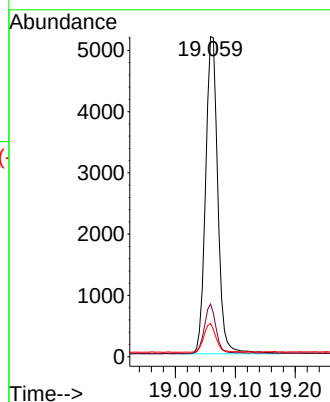
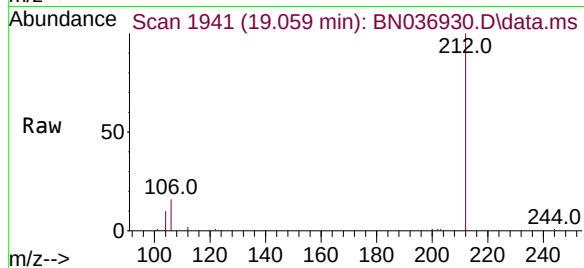




#27
Fluoranthene-d10
Concen: 0.396 ng
RT: 19.059 min Scan# 1941
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

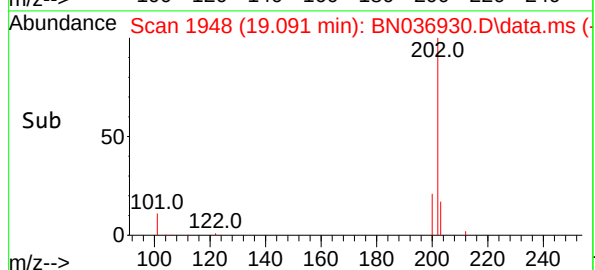
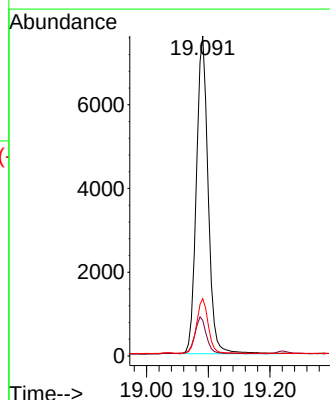
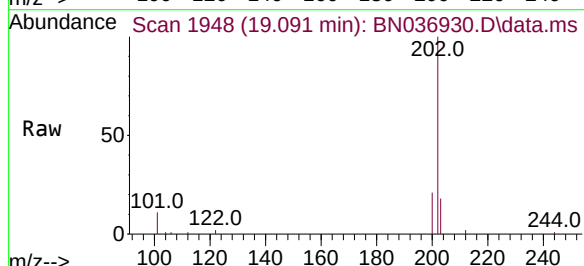
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

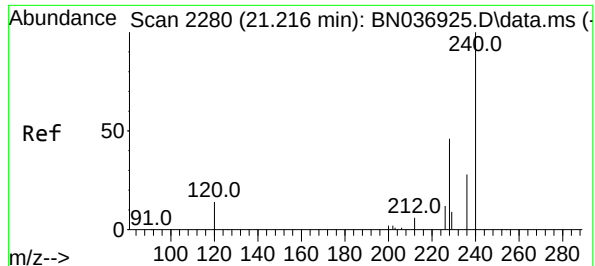
Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.7	11.6	17.4
104	9.0	7.0	10.4



#28
Fluoranthene
Concen: 0.380 ng
RT: 19.091 min Scan# 1948
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.4	8.5	12.7
203	17.0	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

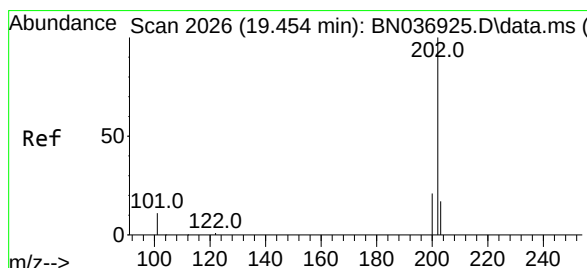
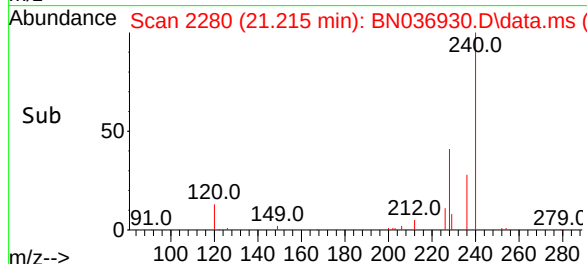
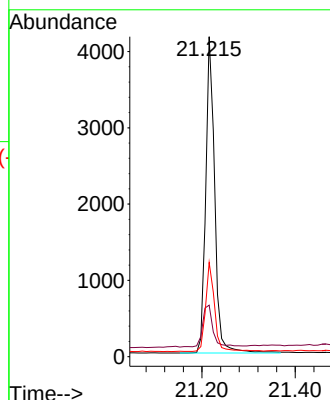
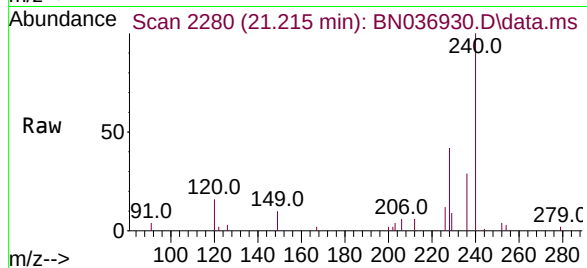
Tgt Ion:240 Resp: 5561

Ion Ratio Lower Upper

240 100

120 16.1 14.1 21.1

236 29.5 23.8 35.8



#30

Pyrene

Concen: 0.376 ng

RT: 19.453 min Scan# 2026

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

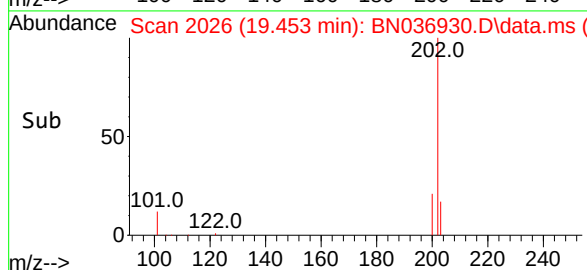
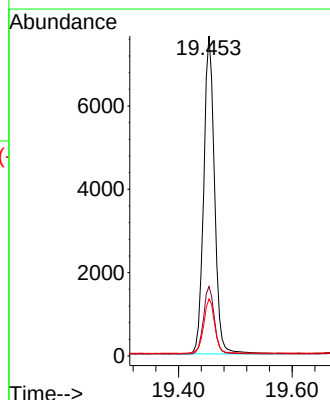
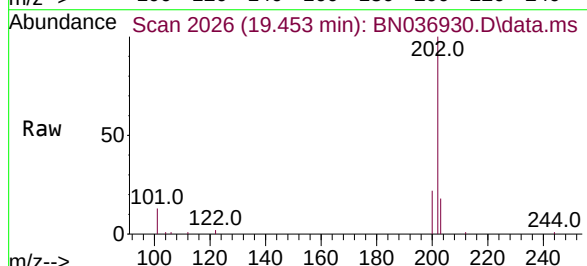
Tgt Ion:202 Resp: 10076

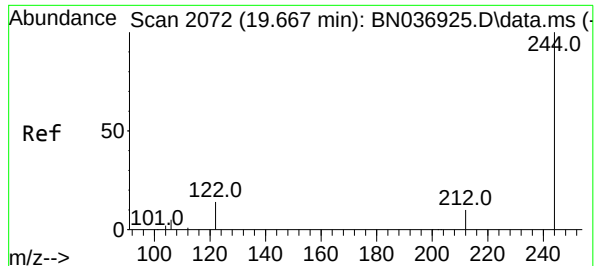
Ion Ratio Lower Upper

202 100

200 21.4 17.0 25.6

203 17.6 14.0 21.0

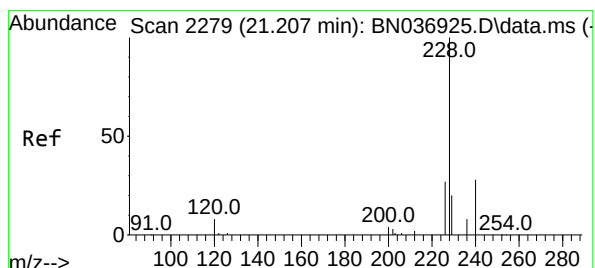
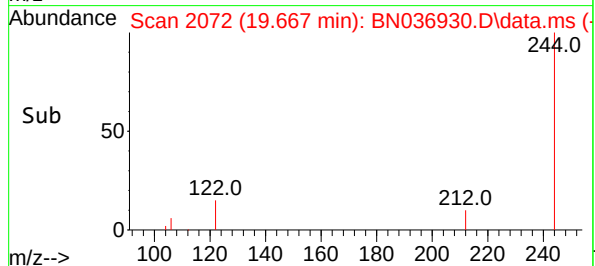
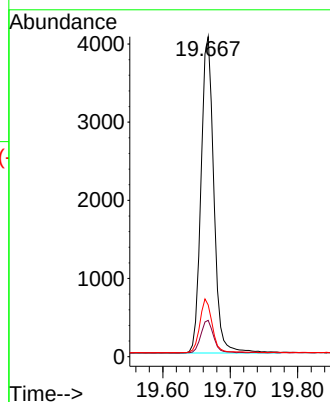
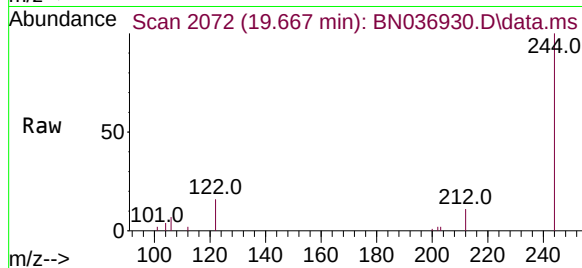




#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.667 min Scan# 2072
Delta R.T. -0.000 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

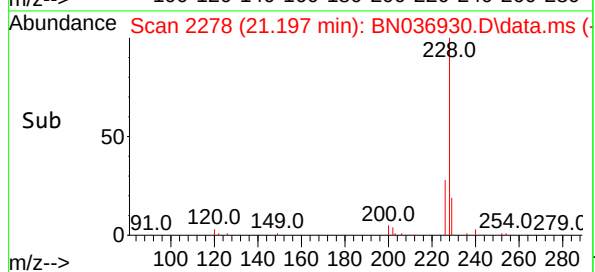
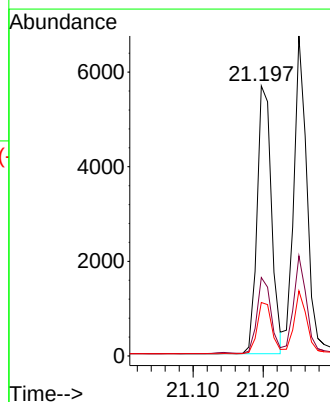
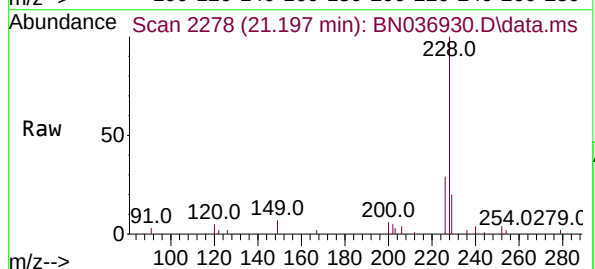
Instrument :
BNA_N
ClientSampleId :
ICVBN042825

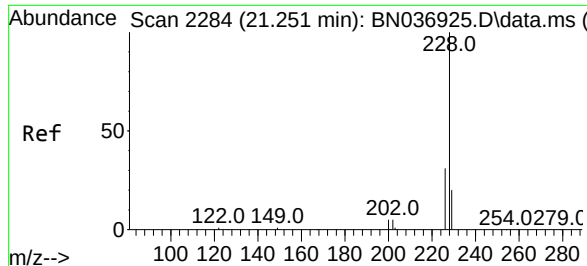
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.3	9.6	14.4
122	16.2	12.7	19.1



#32
Benzo(a)anthracene
Concen: 0.396 ng
RT: 21.197 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036930.D
Acq: 28 Apr 2025 15:51

Tgt Ion	Ratio	Lower	Upper
228	100		
226	29.1	22.2	33.4
229	19.8	16.4	24.6





#33

Chrysene

Concen: 0.405 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

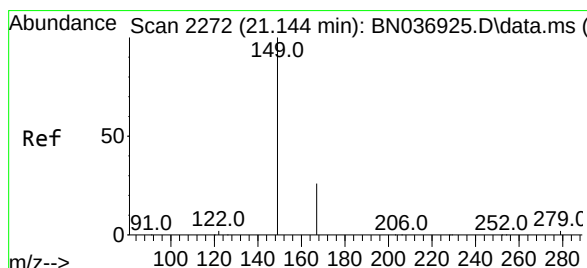
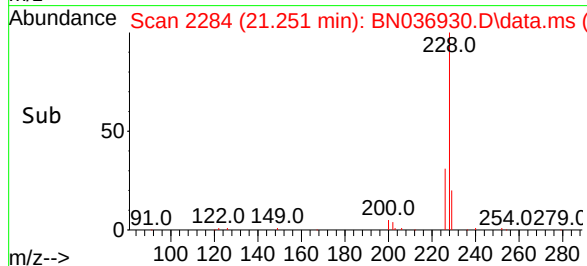
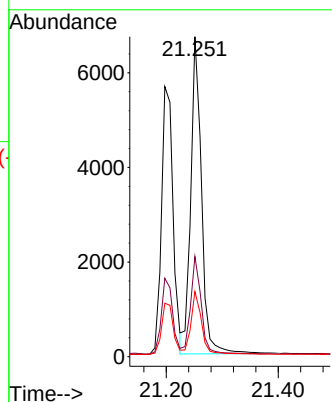
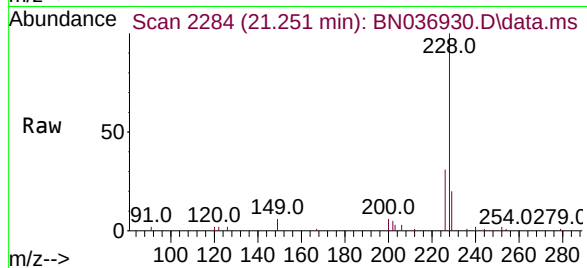
Tgt Ion:228 Resp: 8947

Ion Ratio Lower Upper

228 100

226 31.3 25.5 38.3

229 20.4 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.360 ng

RT: 21.144 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

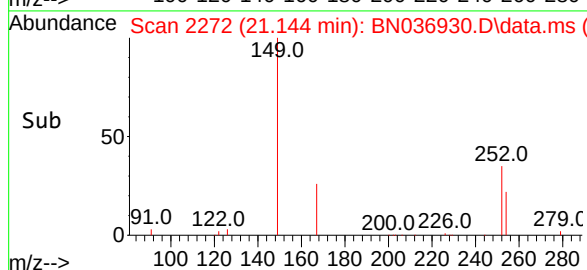
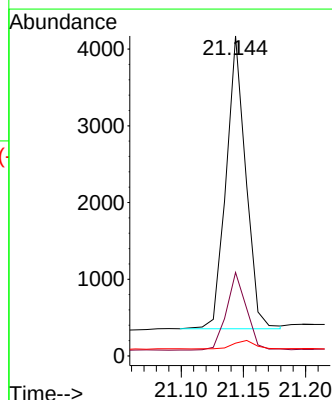
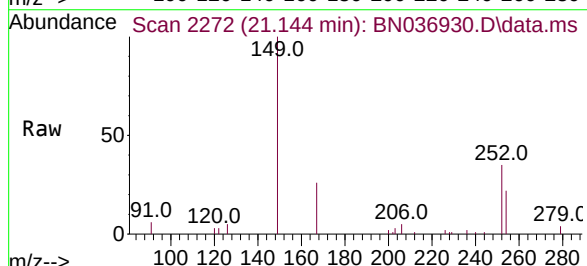
Tgt Ion:149 Resp: 4190

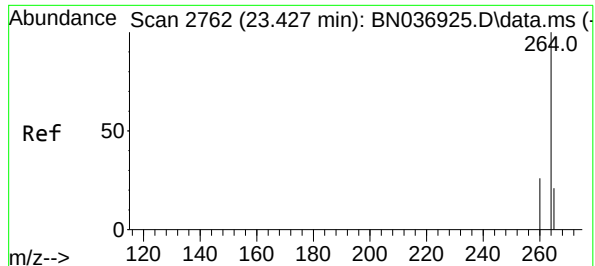
Ion Ratio Lower Upper

149 100

167 27.1 21.0 31.6

279 3.2 2.7 4.1





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.427 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

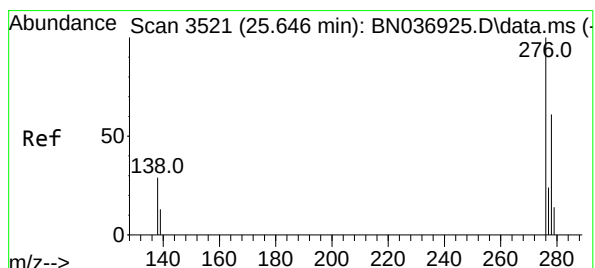
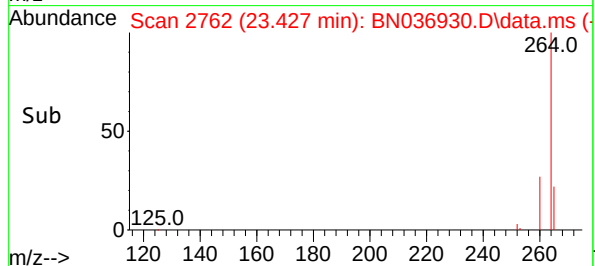
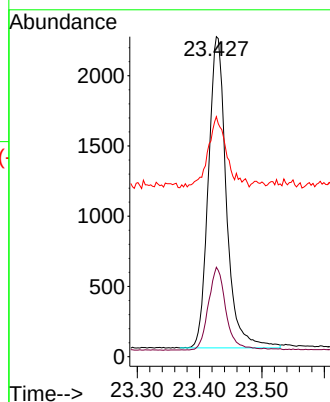
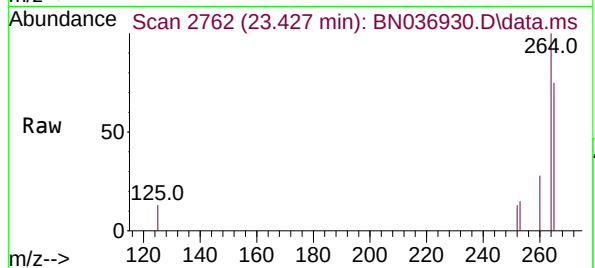
Tgt Ion:264 Resp: 4453

Ion Ratio Lower Upper

264 100

260 28.0 22.2 33.2

265 75.0 65.8 98.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.364 ng

RT: 25.640 min Scan# 3519

Delta R.T. -0.006 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

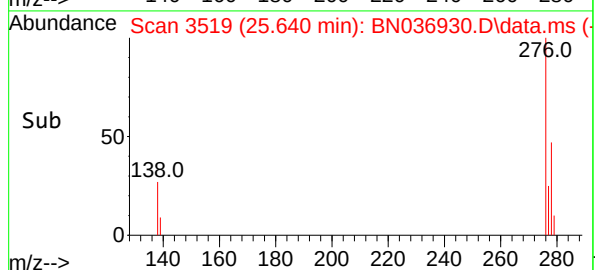
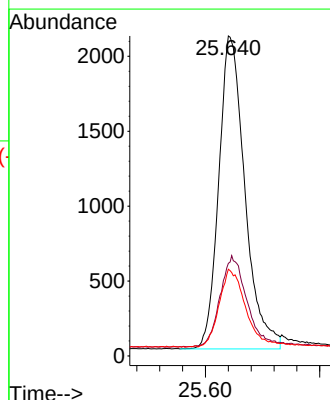
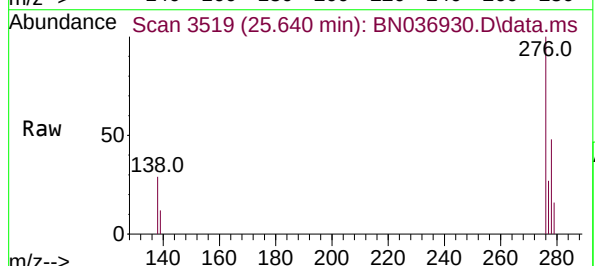
Tgt Ion:276 Resp: 6626

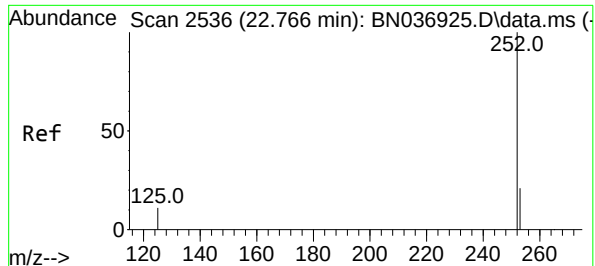
Ion Ratio Lower Upper

276 100

138 29.6 23.0 34.6

277 24.9 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.389 ng

RT: 22.763 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825

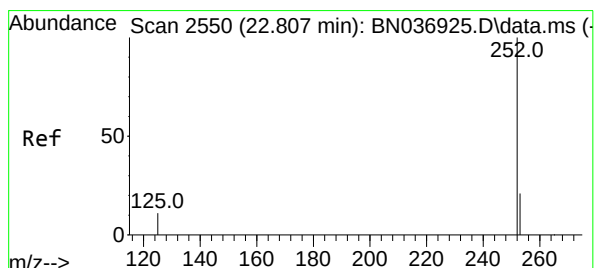
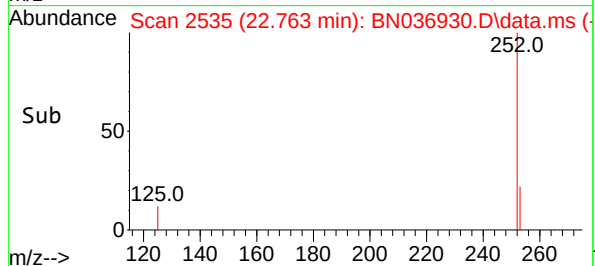
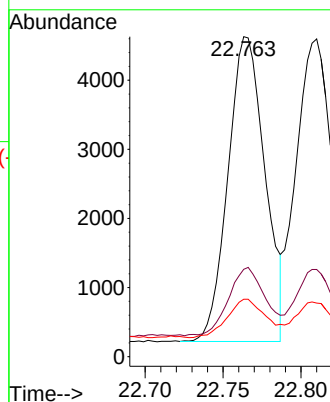
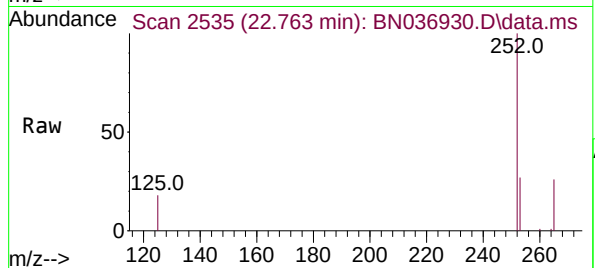
Tgt Ion:252 Resp: 7283

Ion Ratio Lower Upper

252 100

253 27.3 22.1 33.1

125 18.0 14.2 21.2



#38

Benzo(k)fluoranthene

Concen: 0.407 ng

RT: 22.810 min Scan# 2551

Delta R.T. 0.003 min

Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

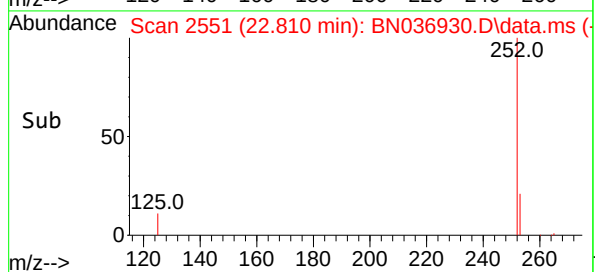
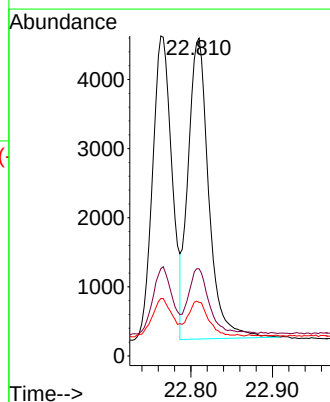
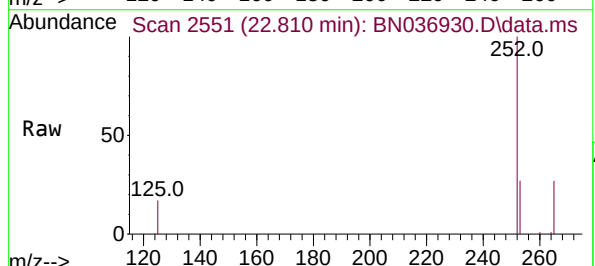
Tgt Ion:252 Resp: 7655

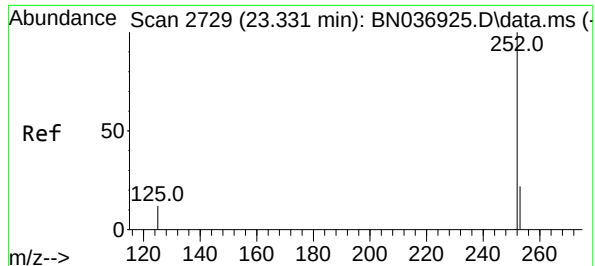
Ion Ratio Lower Upper

252 100

253 27.4 22.8 34.2

125 16.9 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.417 ng

RT: 23.330 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036930.D

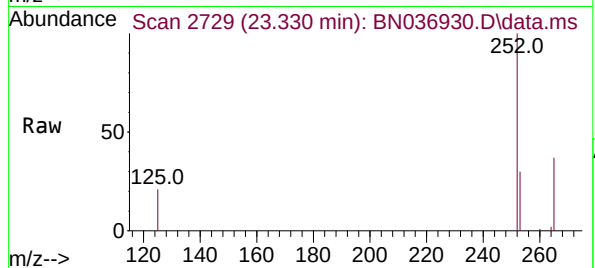
Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

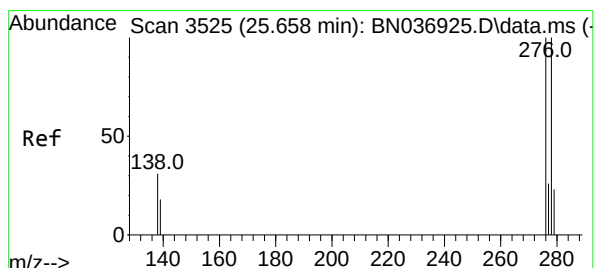
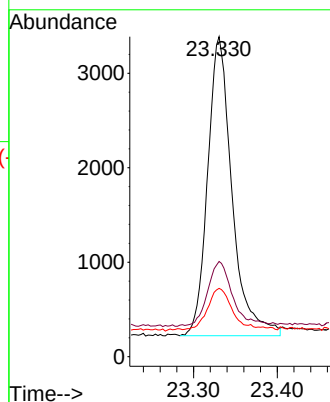
ClientSampleId :

ICVBN042825



Tgt Ion:252 Resp: 6417

Ion	Ratio	Lower	Upper
252	100		
253	29.8	25.9	38.9
125	21.3	17.4	26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.362 ng

RT: 25.663 min Scan# 3527

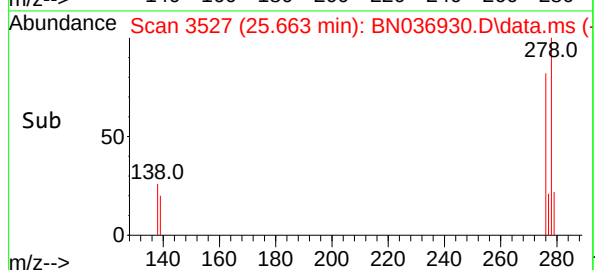
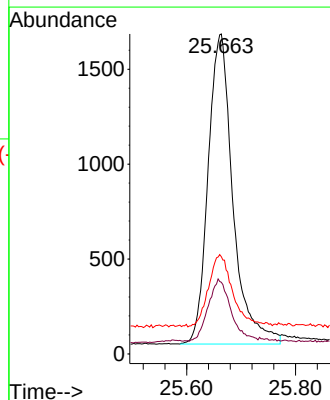
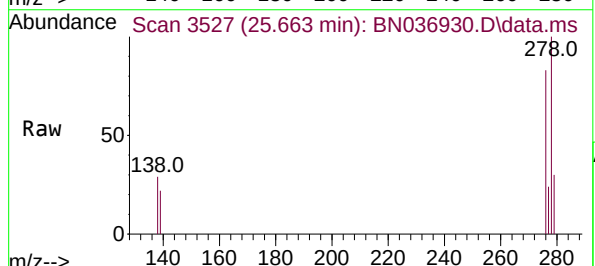
Delta R.T. 0.006 min

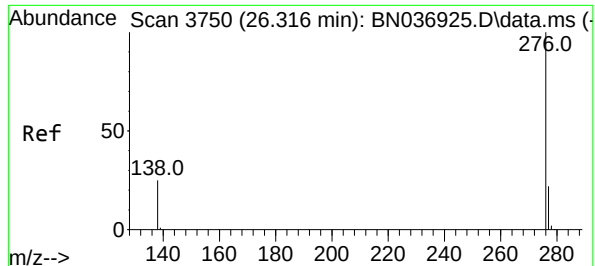
Lab File: BN036930.D

Acq: 28 Apr 2025 15:51

Tgt Ion:278 Resp: 5177

Ion	Ratio	Lower	Upper
278	100		
139	22.4	17.4	26.2
279	30.4	24.9	37.3





#41

Benzo(g,h,i)perylene

Concen: 0.359 ng

RT: 26.321 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN036930.D

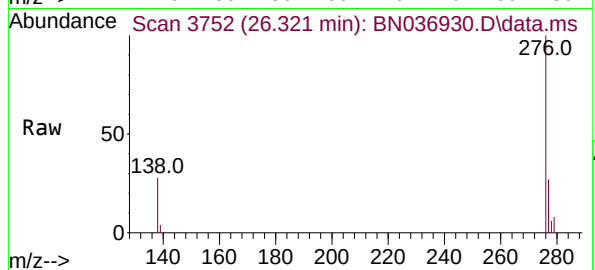
Acq: 28 Apr 2025 15:51

Instrument :

BNA_N

ClientSampleId :

ICVBN042825



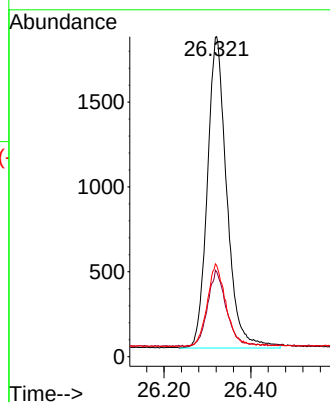
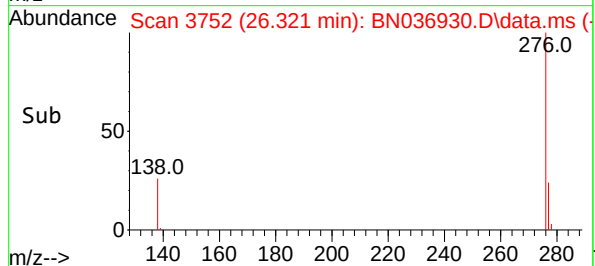
Tgt Ion:276 Resp: 5705

Ion Ratio Lower Upper

276 100

277 26.5 20.2 30.2

138 28.5 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036930.D
 Acq On : 28 Apr 2025 15:51
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICBN042825

Quant Time: Apr 28 18:00:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00
2	1,4-Dioxane	0.498	0.543	-9.0	100	0.00
3	n-Nitrosodimethylamine	0.967	0.989	-2.3	99	0.00
4 S	2-Fluorophenol	1.023	0.913	10.8	83	0.00
5 S	Phenol-d6	1.259	1.095	13.0	83	0.00
6	bis(2-Chloroethyl)ether	1.167	1.229	-5.3	107	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	106	0.00
8 S	Nitrobenzene-d5	0.418	0.426	-1.9	110	0.00
9	Naphthalene	1.164	1.162	0.2	107	0.00
10	Hexachlorobutadiene	0.252	0.261	-3.6	109	0.00
11 SURR	2-Methylnaphthalene-d10	0.559	0.575	-2.9	113	0.00
12	2-Methylnaphthalene	0.753	0.690	8.4	102	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	118	0.00
14 S	2,4,6-Tribromophenol	0.178	0.146	18.0	97	0.00
15 S	2-Fluorobiphenyl	1.933	1.889	2.3	108	0.00
16	Acenaphthylene	1.955	2.010	-2.8	124	0.00
17	Acenaphthene	1.284	1.226	4.5	113	0.00
18	Fluorene	1.680	1.639	2.4	119	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	125	0.00
20	4,6-Dinitro-2-methylphenol	0.106	0.085	19.8	119	0.00
21	4-Bromophenyl-phenylether	0.267	0.251	6.0	120	0.00
22	Hexachlorobenzene	0.293	0.283	3.4	118	0.00
23	Atrazine	0.215	0.217	-0.9	136	0.00
24	Pentachlorophenol	0.157	0.124	21.0	107	0.00
25	Phenanthrene	1.320	1.286	2.6	124	0.00
26	Anthracene	1.194	1.172	1.8	128	0.00
27 SURR	Fluoranthene-d10	1.037	1.027	1.0	130	0.00
28	Fluoranthene	1.480	1.407	4.9	126	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	135	0.00
30	Pyrene	1.927	1.812	6.0	125	0.00
31 S	Terphenyl-d14	0.944	0.961	-1.8	137	0.00
32	Benzo(a)anthracene	1.473	1.457	1.1	138	0.00
33	Chrysene	1.589	1.609	-1.3	133	0.00
34	Bis(2-ethylhexyl)phthalate	0.838	0.753	10.1	122	0.00
35 I	Perylene-d12	1.000	1.000	0.0	123	0.00
36	Indeno(1,2,3-cd)pyrene	1.634	1.488	8.9	107	0.00
37	Benzo(b)fluoranthene	1.682	1.636	2.7	123	0.00
38	Benzo(k)fluoranthene	1.691	1.719	-1.7	128	0.00
39 C	Benzo(a)pyrene	1.383	1.441	-4.2	130	0.00
40	Dibenzo(a,h)anthracene	1.286	1.163	9.6	106	0.00
41	Benzo(g,h,i)perylene	1.427	1.281	10.2	104	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
 Data File : BN036930.D
 Acq On : 28 Apr 2025 15:51
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICBN042825

Quant Time: Apr 28 18:00:30 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	101	0.00
2	1,4-Dioxane	0.400	0.435	-8.7	100	0.00
3	n-Nitrosodimethylamine	0.400	0.409	-2.2	99	0.00
4 S	2-Fluorophenol	0.400	0.357	10.8	83	0.00
5 S	Phenol-d6	0.400	0.348	13.0	83	0.00
6	bis(2-Chloroethyl)ether	0.400	0.421	-5.2	107	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	106	0.00
8 S	Nitrobenzene-d5	0.400	0.408	-2.0	110	0.00
9	Naphthalene	0.400	0.399	0.3	107	0.00
10	Hexachlorobutadiene	0.400	0.414	-3.5	109	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.411	-2.7	113	0.00
12	2-Methylnaphthalene	0.400	0.367	8.3	102	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	118	0.00
14 S	2,4,6-Tribromophenol	0.400	0.327	18.3	97	0.00
15 S	2-Fluorobiphenyl	0.400	0.391	2.3	108	0.00
16	Acenaphthylene	0.400	0.411	-2.7	124	0.00
17	Acenaphthene	0.400	0.382	4.5	113	0.00
18	Fluorene	0.400	0.390	2.5	119	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	125	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.323	19.3	119	0.00
21	4-Bromophenyl-phenylether	0.400	0.376	6.0	120	0.00
22	Hexachlorobenzene	0.400	0.387	3.3	118	0.00
23	Atrazine	0.400	0.403	-0.8	136	0.00
24	Pentachlorophenol	0.400	0.315	21.3	107	0.00
25	Phenanthrene	0.400	0.390	2.5	124	0.00
26	Anthracene	0.400	0.393	1.8	128	0.00
27 SURR	Fluoranthene-d10	0.400	0.396	1.0	130	0.00
28	Fluoranthene	0.400	0.380	5.0	126	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	135	0.00
30	Pyrene	0.400	0.376	6.0	125	0.00
31 S	Terphenyl-d14	0.400	0.407	-1.7	137	0.00
32	Benzo(a)anthracene	0.400	0.396	1.0	138	0.00
33	Chrysene	0.400	0.405	-1.3	133	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.360	10.0	122	0.00
35 I	Perylene-d12	0.400	0.400	0.0	123	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.364	9.0	107	0.00
37	Benzo(b)fluoranthene	0.400	0.389	2.8	123	0.00
38	Benzo(k)fluoranthene	0.400	0.407	-1.7	128	0.00
39 C	Benzo(a)pyrene	0.400	0.417	-4.2	130	0.00
40	Dibenzo(a,h)anthracene	0.400	0.362	9.5	106	0.00
41	Benzo(g,h,i)perylene	0.400	0.359	10.3	104	0.00

(#) = Out of Range

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

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
 Method File : 8270-SIM-BN051425.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Wed May 14 11:26:32 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN036999.D 0.2 =BN037000.D 0.4 =BN037001.D 0.8 =BN037002.D 1.6 =BN037003.D 3.2 =BN037004.D 5.0 =BN037005.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	0.510	0.512	0.487	0.514	0.467	0.454	0.491	5.25	
3)	n-Nitrosodimet...	1.465	0.974	0.980	0.971	1.075	0.967	0.950	1.054	17.59
4) S	2-Fluorophenol	1.101	1.134	1.024	1.093	0.964	0.971	1.048	6.87	
5) S	Phenol-d6	1.304	1.385	1.236	1.392	1.259	1.292	1.311	4.91	
6)	bis(2-Chloroet...	1.441	1.163	1.153	1.135	1.240	1.168	1.148	1.207	9.02
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.546	0.383	0.398	0.400	0.452	0.426	0.442	0.436	12.60
9)	Naphthalene	1.326	1.140	1.144	1.122	1.226	1.152	1.165	1.182	6.05
10)	Hexachlorobuta...	0.286	0.248	0.244	0.235	0.256	0.236	0.233	0.248	7.47
11) SURR	2-Methylnaphth...	0.529	0.547	0.552	0.548	0.603	0.574	0.588	0.563	4.65
12)	2-Methylnaphth...	0.754	0.724	0.736	0.733	0.814	0.770	0.790	0.760	4.34
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.174	0.168	0.178	0.160	0.186	0.175	0.189	0.176	5.77
15) S	2-Fluorobiphenyl	1.912	1.801	1.901	1.802	1.927	1.672	1.807	1.832	4.90
16)	Acenaphthylene	1.906	1.838	1.894	1.849	2.071	1.997	2.075	1.947	5.14
17)	Acenaphthene	1.255	1.229	1.243	1.217	1.350	1.298	1.315	1.272	3.89
18)	Fluorene	1.602	1.581	1.635	1.611	1.779	1.721	1.752	1.669	4.80
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.060	0.073	0.079	0.102	0.103	0.124	0.090	26.02	
21)	4-Bromophenyl-...	0.243	0.246	0.250	0.247	0.262	0.261	0.259	0.253	3.13
22)	Hexachlorobenzene	0.267	0.269	0.281	0.259	0.281	0.270	0.267	0.270	3.03
23)	Atrazine	0.199	0.207	0.211	0.213	0.237	0.234	0.242	0.220	7.64
24)	Pentachlorophenol	0.133	0.134	0.141	0.137	0.159	0.162	0.177	0.149	11.45
25)	Phenanthrene	1.259	1.272	1.292	1.263	1.367	1.337	1.361	1.307	3.56
26)	Anthracene	1.099	1.104	1.166	1.130	1.269	1.259	1.300	1.190	7.13
27) SURR	Fluoranthene-d10	1.033	1.033	1.078	1.042	1.153	1.161	1.178	1.097	5.95
28)	Fluoranthene	1.461	1.439	1.500	1.496	1.670	1.672	1.693	1.562	7.13
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.744	1.708	1.727	1.656	1.790	1.641	1.711	1.711	2.96
31) S	Terphenyl-d14	0.897	0.844	0.871	0.822	0.891	0.816	0.848	0.856	3.73
32)	Benzo(a)anthra...	1.463	1.432	1.485	1.438	1.594	1.521	1.609	1.506	4.77
33)	Chrysene	1.655	1.559	1.616	1.532	1.653	1.560	1.576	1.593	3.05
34)	Bis(2-ethylhex...	0.955	0.919	0.906	0.855	0.941	0.903	1.011	0.927	5.27
35) I	Perylene-d12	-----ISTD-----								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\

Method File : 8270-SIM-BN051425.M

36)	Indeno(1,2,3-c...	1.511	1.613	1.645	1.568	1.687	1.732	1.680	1.634	4.65
37)	Benzo(b)fluora...	1.631	1.570	1.602	1.599	1.749	1.698	1.765	1.659	4.71
38)	Benzo(k)fluora...	1.539	1.538	1.642	1.601	1.770	1.661	1.719	1.639	5.34
39) C	Benzo(a)pyrene	1.380	1.343	1.381	1.331	1.486	1.444	1.486	1.407	4.59
40)	Dibenzo(a,h)an...	1.116	1.232	1.273	1.237	1.340	1.376	1.334	1.272	6.90
41)	Benzo(g,h,i)pe...	1.299	1.407	1.424	1.330	1.403	1.439	1.376	1.383	3.72

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN036999.D
 Acq On : 13 May 2025 17:41
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: May 14 10:59:44 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 10:57:36 2025
 Response via : Initial Calibration

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

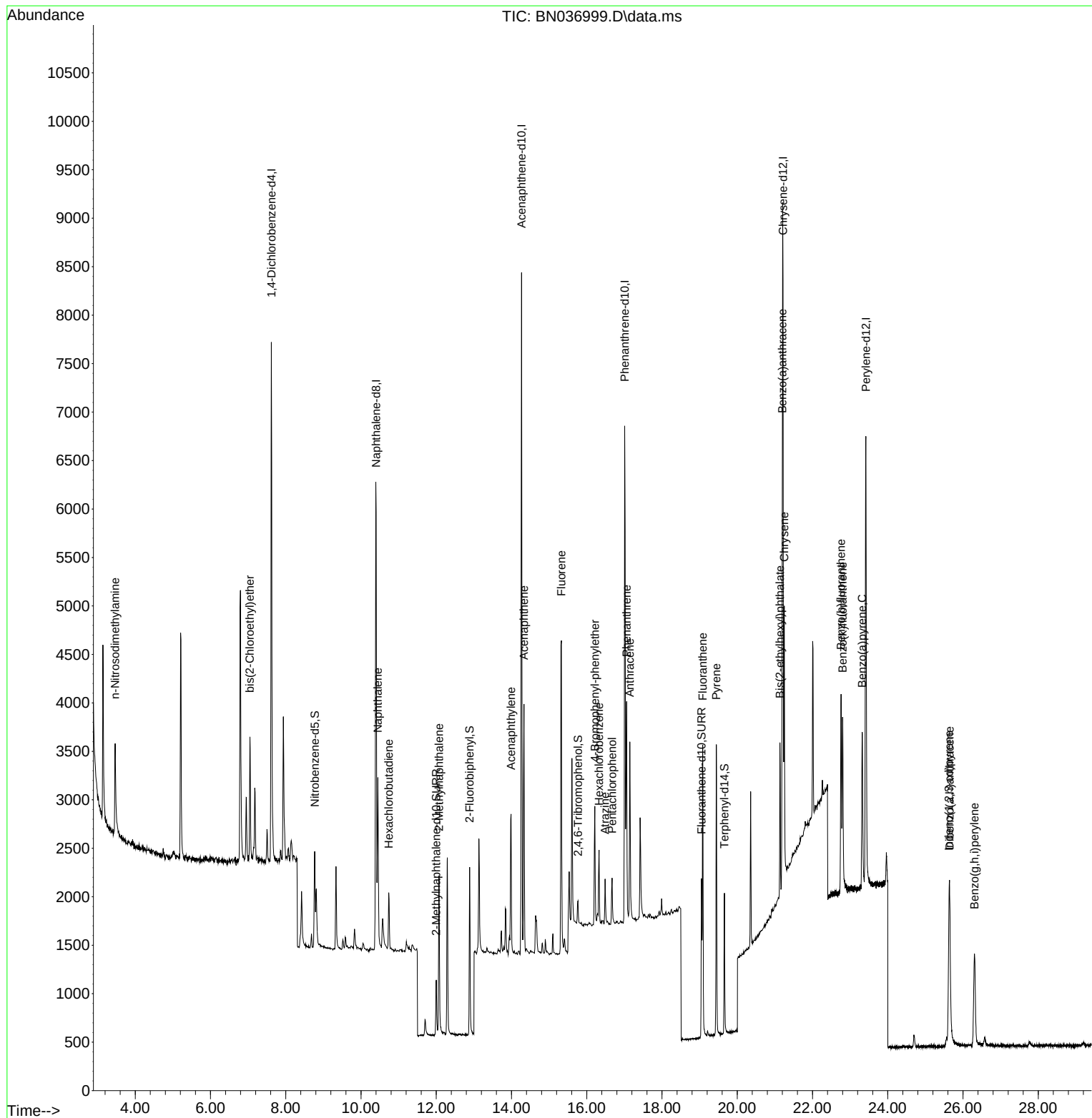
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	2512	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	6713	0.400	ng	0.00
13) Acenaphthene-d10	14.267	164	3705	0.400	ng	0.00
19) Phenanthrene-d10	17.009	188	7492	0.400	ng	0.00
29) Chrysene-d12	21.216	240	6297	0.400	ng	# 0.00
35) Perylene-d12	23.418	264	6037	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	0.000	112	0d	0.000	ng	
5) Phenol-d6	0.000	99	0d	0.000	ng	
8) Nitrobenzene-d5	8.771	82	917	0.125	ng	0.00
11) 2-Methylnaphthalene-d10	12.001	152	888	0.094	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	161	0.099	ng	0.00
15) 2-Fluorobiphenyl	12.889	172	1771	0.104	ng	0.00
27) Fluoranthene-d10	19.049	212	1934	0.094	ng	0.00
31) Terphenyl-d14	19.658	244	1412	0.105	ng	0.00
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.466	42	920	0.139	ng	# 94
6) bis(2-Chloroethyl)ether	7.048	93	905	0.119	ng	98
9) Naphthalene	10.447	128	2225	0.112	ng	97
10) Hexachlorobutadiene	10.735	225	480	0.115	ng	# 100
12) 2-Methylnaphthalene	12.072	142	1266	0.099	ng	98
16) Acenaphthylene	13.989	152	1765	0.098	ng	99
17) Acenaphthene	14.331	154	1162	0.099	ng	99
18) Fluorene	15.325	166	1484	0.096	ng	99
21) 4-Bromophenyl-phenylether	16.214	248	455	0.096	ng	98
22) Hexachlorobenzene	16.326	284	500	0.099	ng	97
23) Atrazine	16.487	200	372	0.090	ng	# 93
24) Pentachlorophenol	16.674	266	249	0.088	ng	97
25) Phenanthrene	17.058	178	2359	0.096	ng	99
26) Anthracene	17.145	178	2059	0.092	ng	99
28) Fluoranthene	19.082	202	2737	0.094	ng	100
30) Pyrene	19.444	202	2745	0.102	ng	100
32) Benzo(a)anthracene	21.198	228	2303	0.097	ng	96
33) Chrysene	21.251	228	2605	0.104	ng	97
34) Bis(2-ethylhexyl)phtha...	21.135	149	1504	0.103	ng	99
36) Indeno(1,2,3-cd)pyrene	25.629	276	2280	0.092	ng	97
37) Benzo(b)fluoranthene	22.758	252	2461	0.098	ng	# 75
38) Benzo(k)fluoranthene	22.801	252	2322	0.094	ng	# 73
39) Benzo(a)pyrene	23.322	252	2083	0.098	ng	# 62
40) Dibenzo(a,h)anthracene	25.646	278	1685	0.088	ng	# 78
41) Benzo(g,h,i)perylene	26.304	276	1960	0.094	ng	# 87

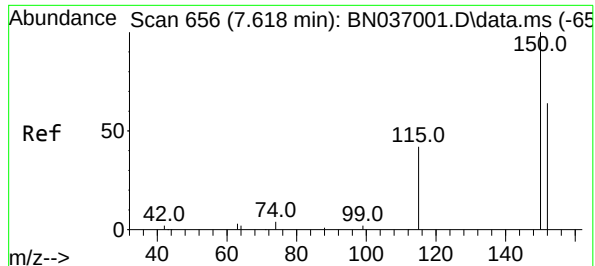
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN036999.D
Acq On : 13 May 2025 17:41
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: May 14 10:59:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration

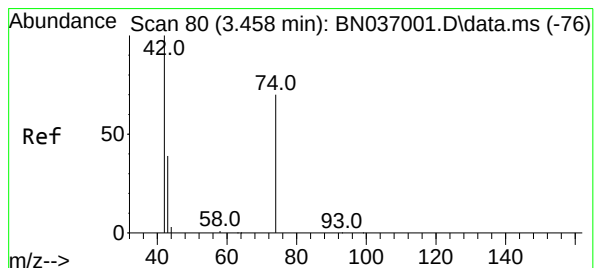
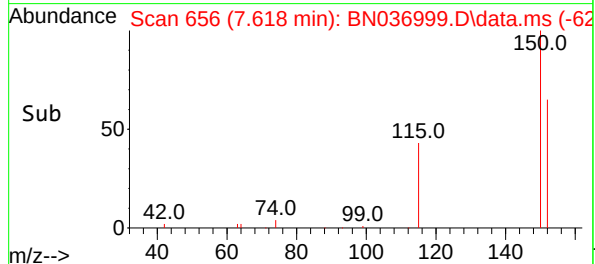
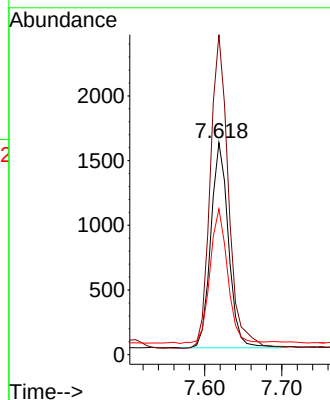
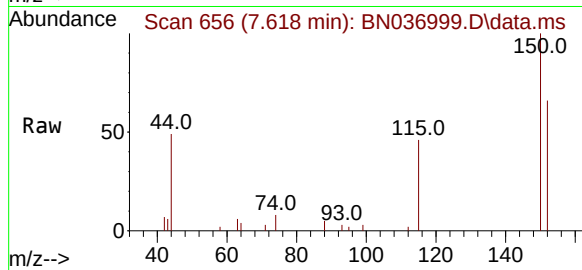




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

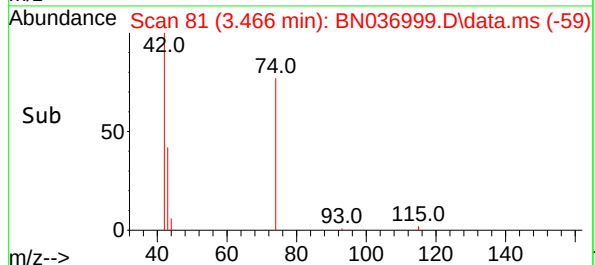
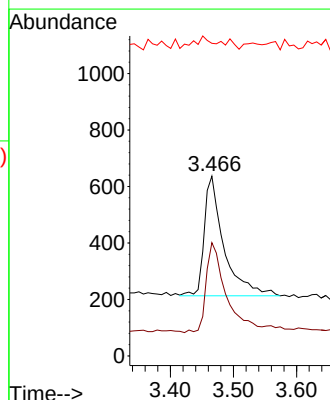
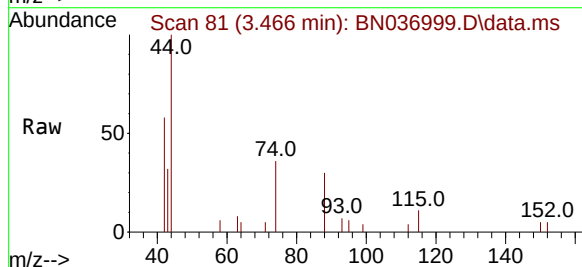
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

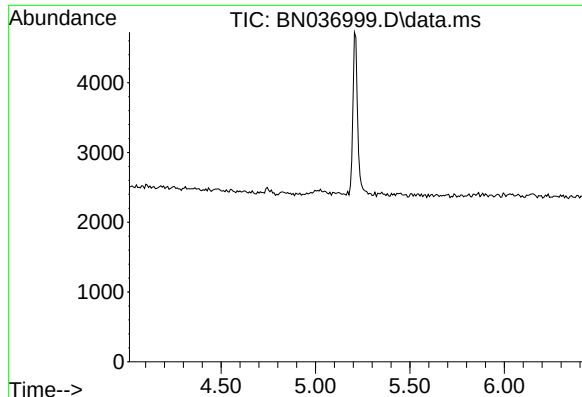
Tgt Ion:152 Resp: 2512
Ion Ratio Lower Upper
152 100
150 150.9 123.9 185.9
115 68.7 55.8 83.8



#3
n-Nitrosodimethylamine
Concen: 0.139 ng
RT: 3.466 min Scan# 81
Delta R.T. 0.007 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion: 42 Resp: 920
Ion Ratio Lower Upper
42 100
74 76.3 59.8 89.6
44 4.1 11.9 17.9#



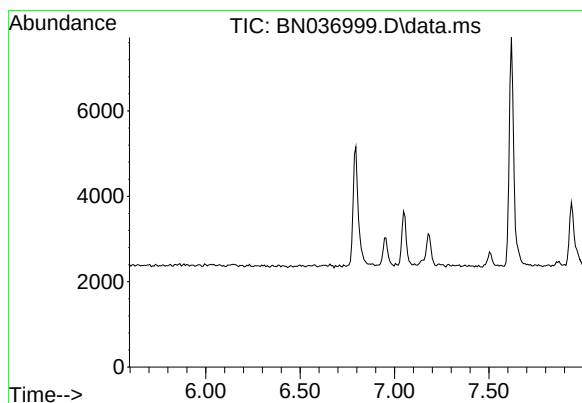
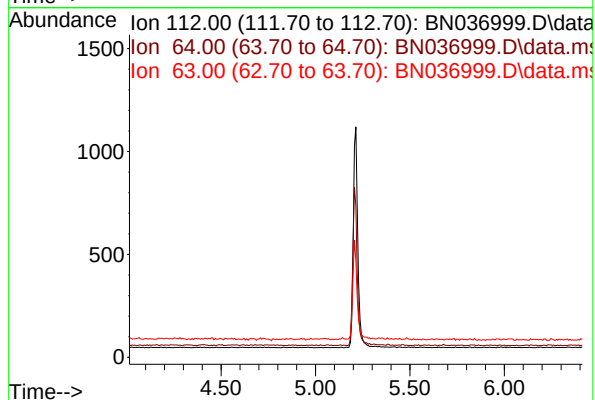


#4
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.21 min

Lab File: BN036999.D
Acq: 13 May 2025 17:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

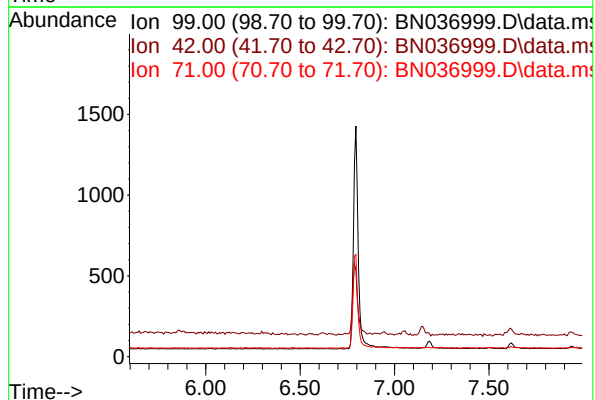
Tgt Ion: 112
Sig Exp Ratio
112 100
64 69.6
63 43.2

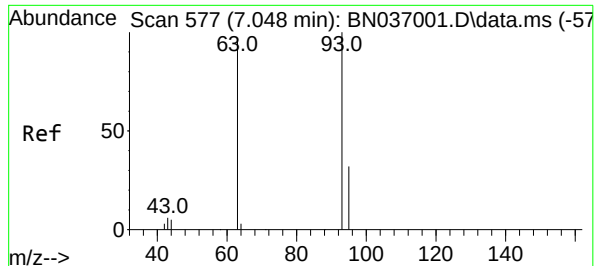


#5
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.79 min

Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion: 99
Sig Exp Ratio
99 100
42 36.6
71 44.6

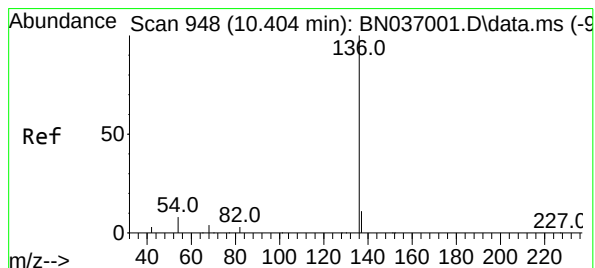
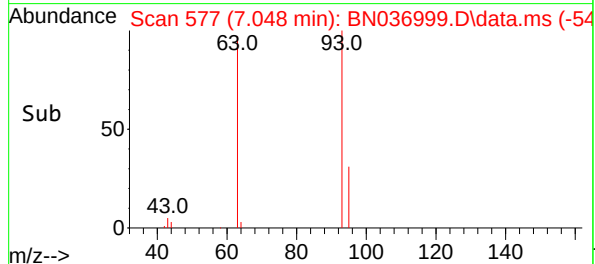
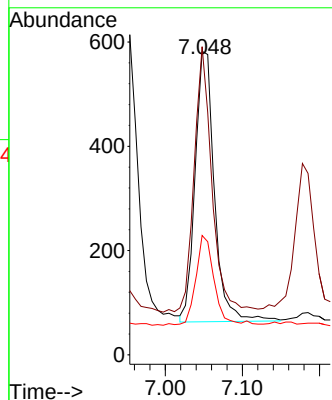
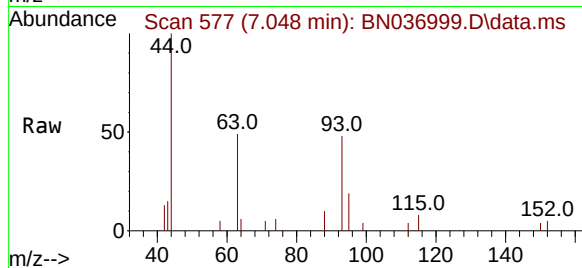




#6
bis(2-chloroethyl)ether
Concen: 0.119 ng
RT: 7.048 min Scan# 577
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

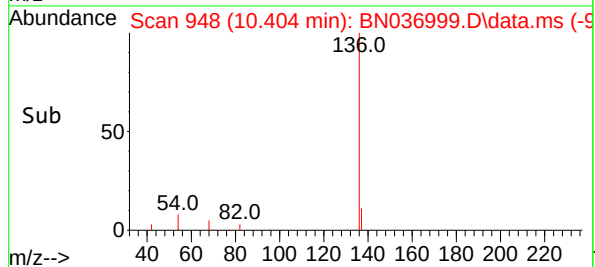
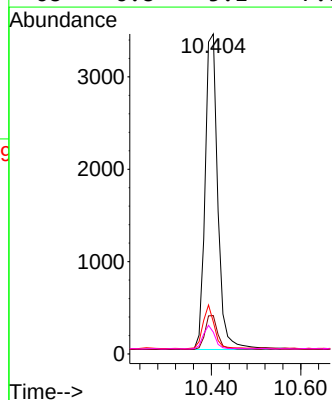
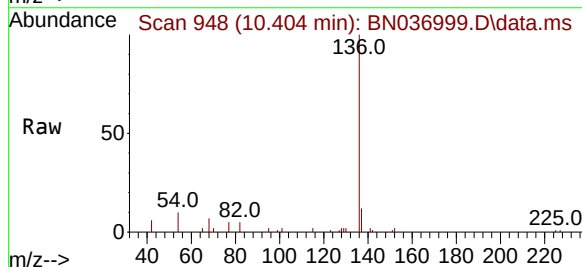
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

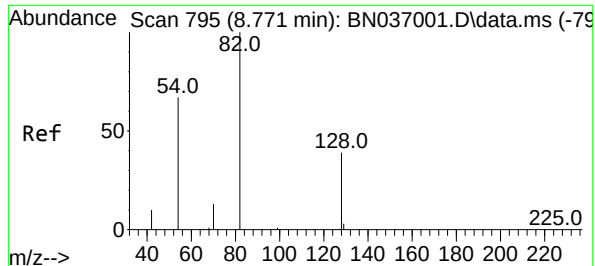
Tgt Ion	Ratio	Lower	Upper
93	100		
63	90.2	70.1	105.1
95	32.2	26.2	39.2



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.4	15.6
54	10.0	8.5	12.7
68	6.8	5.1	7.7

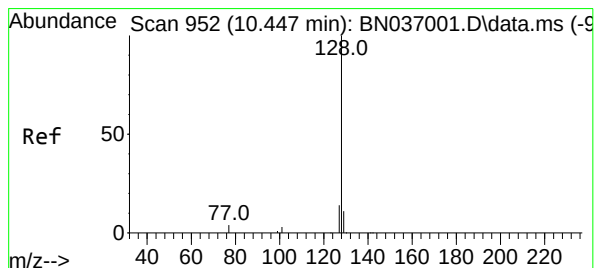
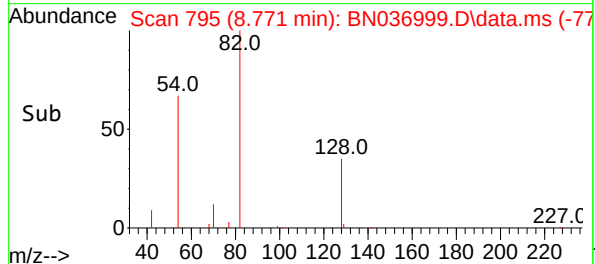
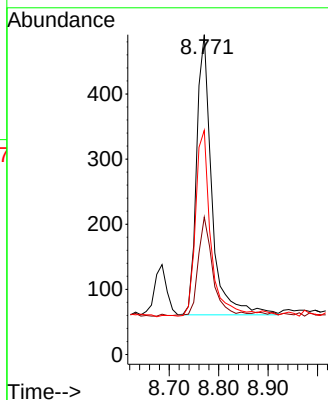
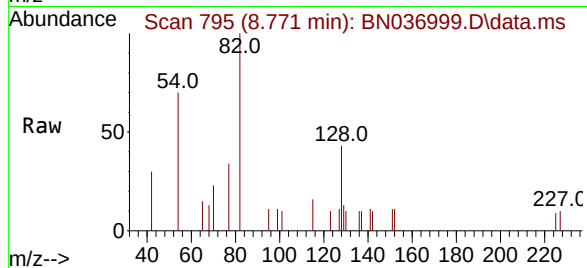




#8
Nitrobenzene-d5
Concen: 0.125 ng
RT: 8.771 min Scan# 795
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

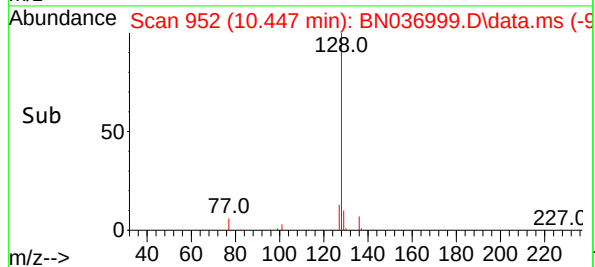
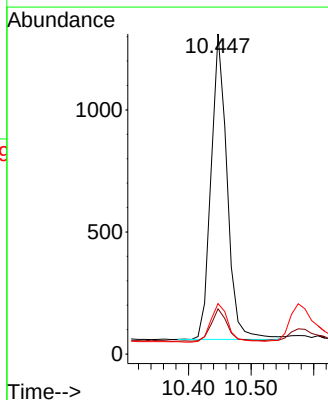
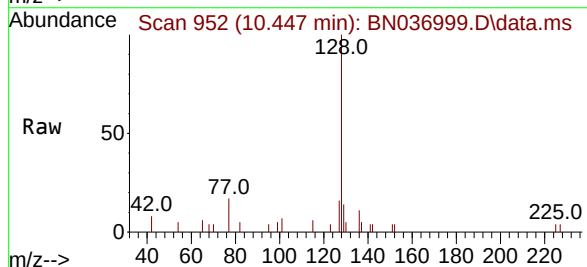
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

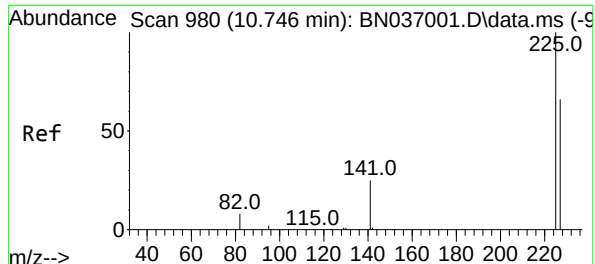
Tgt Ion	82	Resp:	917
Ion	Ratio	Lower	Upper
82	100		
128	43.0	34.0	51.0
54	70.1	55.0	82.4



#9
Naphthalene
Concen: 0.112 ng
RT: 10.447 min Scan# 952
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion	128	Resp:	2225
Ion	Ratio	Lower	Upper
128	100		
129	14.1	9.7	14.5
127	15.8	12.4	18.6

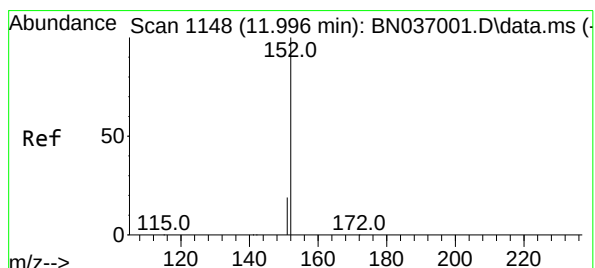
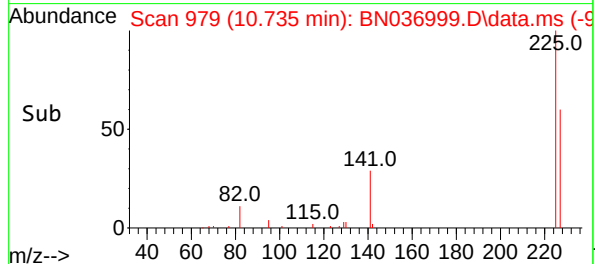
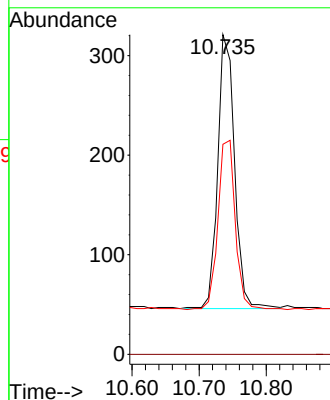
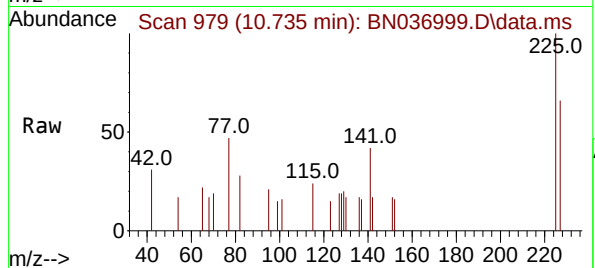




#10
Hexachlorobutadiene
Concen: 0.115 ng
RT: 10.735 min Scan# 91
Delta R.T. -0.011 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

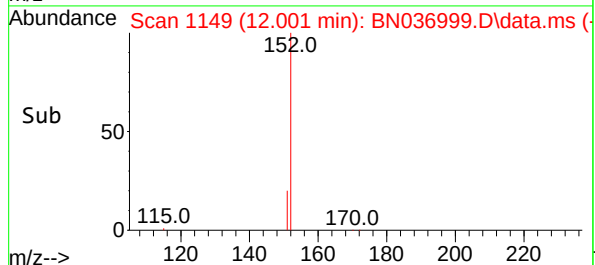
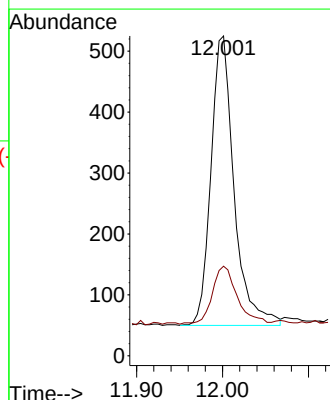
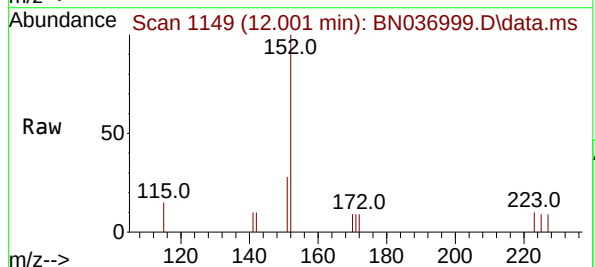
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

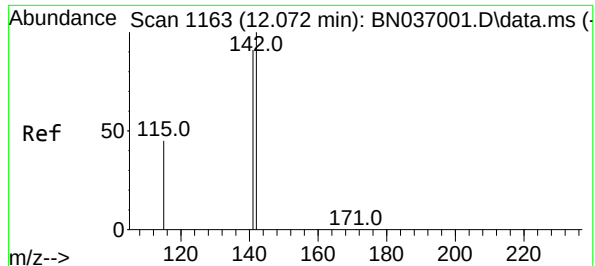
Tgt Ion:225 Resp: 480
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.0 50.9 76.3



#11
2-Methylnaphthalene-d10
Concen: 0.094 ng
RT: 12.001 min Scan# 1149
Delta R.T. 0.005 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:152 Resp: 888
Ion Ratio Lower Upper
152 100
151 21.6 17.5 26.3





#12

2-Methylnaphthalene

Concen: 0.099 ng

RT: 12.072 min Scan# 1163

Delta R.T. 0.000 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

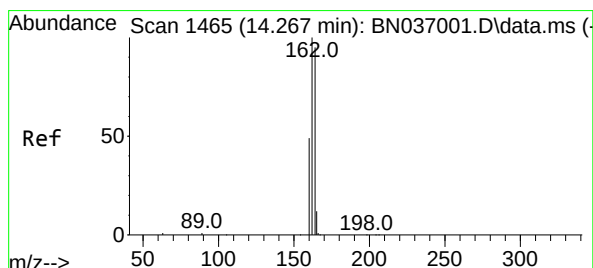
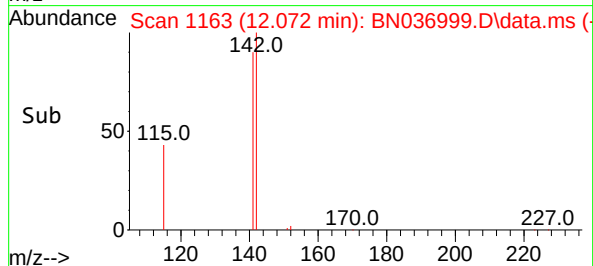
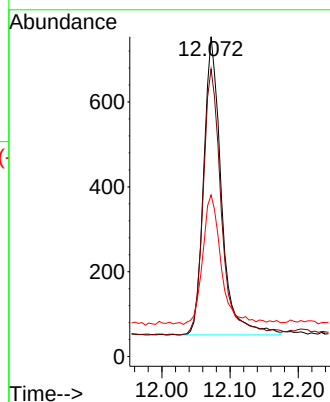
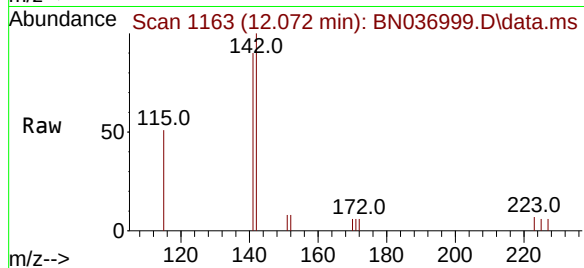
Tgt Ion:142 Resp: 1266

Ion Ratio Lower Upper

142 100

141 89.9 73.3 109.9

115 50.5 38.4 57.6



#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.267 min Scan# 1465

Delta R.T. 0.000 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

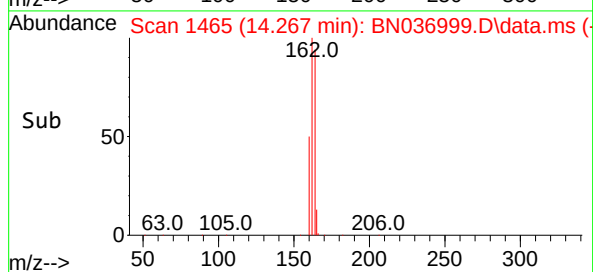
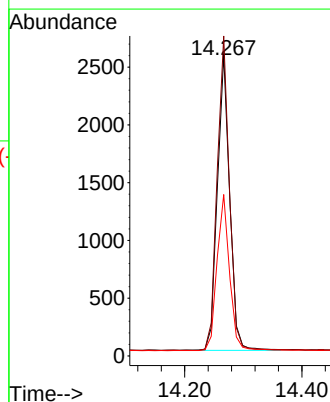
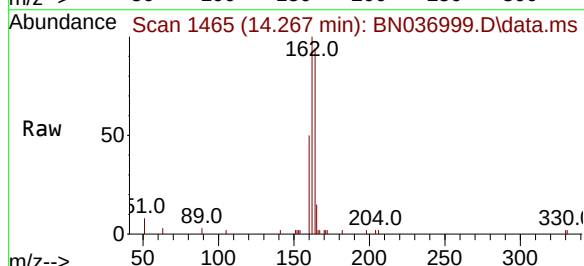
Tgt Ion:164 Resp: 3705

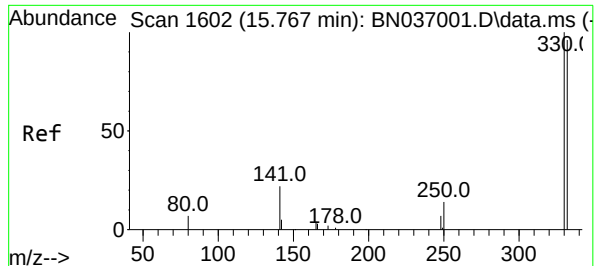
Ion Ratio Lower Upper

164 100

162 106.3 84.2 126.4

160 53.6 42.6 63.8

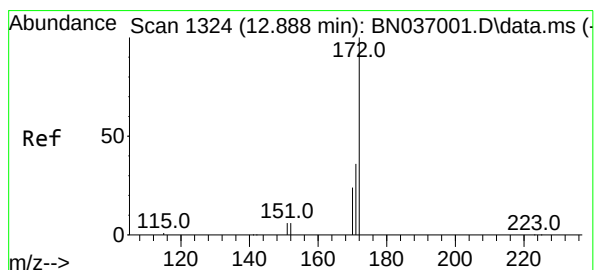
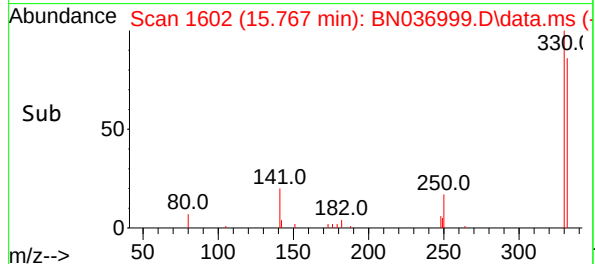
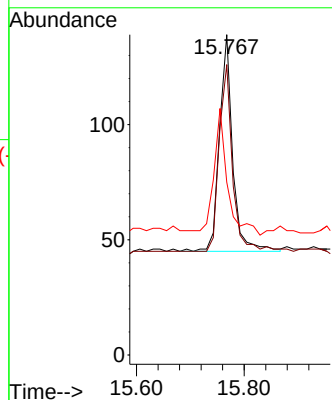
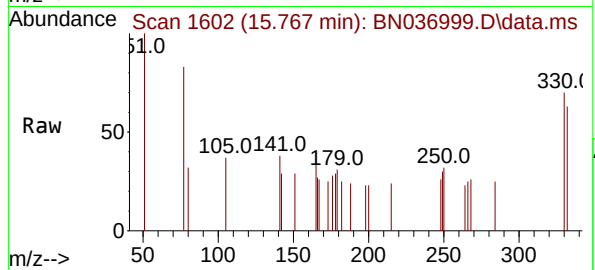




#14
2,4,6-Tribromophenol
Concen: 0.099 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

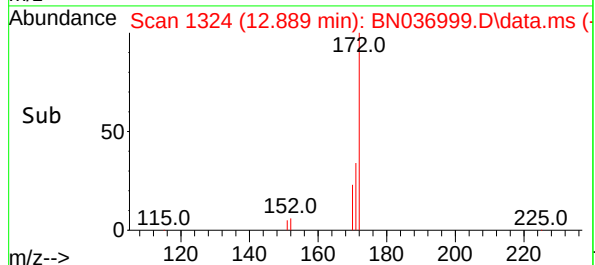
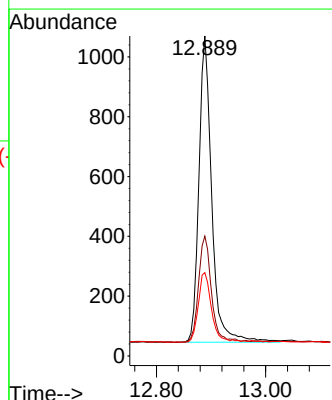
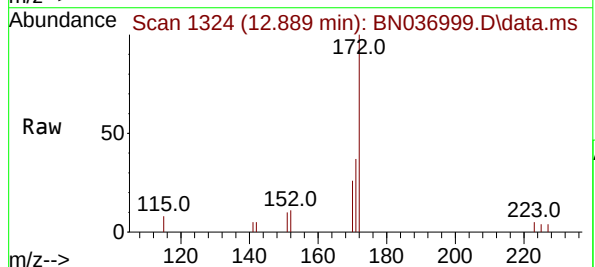
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

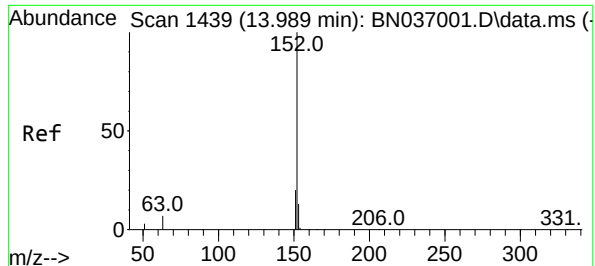
Tgt Ion:330 Resp: 161
Ion Ratio Lower Upper
330 100
332 87.0 73.8 110.8
141 60.2 43.9 65.9



#15
2-Fluorobiphenyl
Concen: 0.104 ng
RT: 12.889 min Scan# 1324
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:172 Resp: 1771
Ion Ratio Lower Upper
172 100
171 37.5 29.2 43.8
170 26.1 20.5 30.7

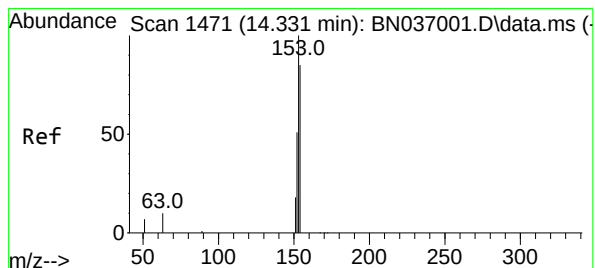
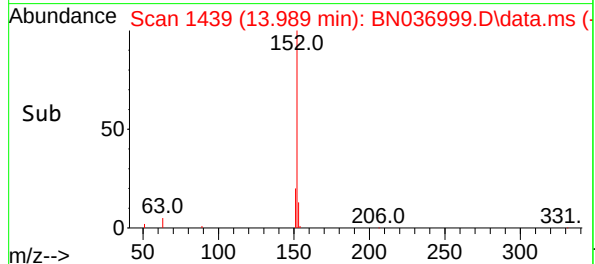
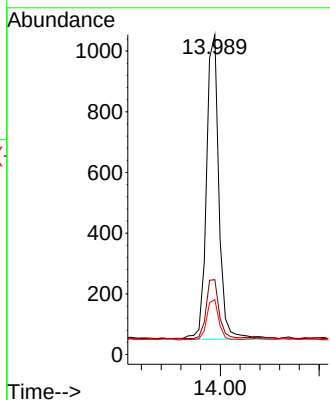
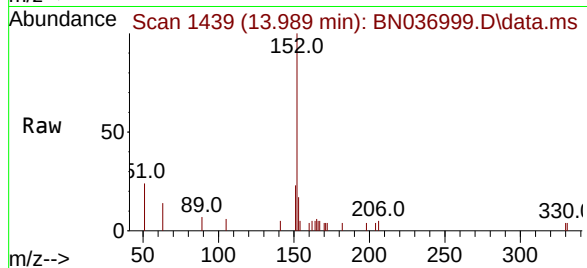




#16
Acenaphthylene
Concen: 0.098 ng
RT: 13.989 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

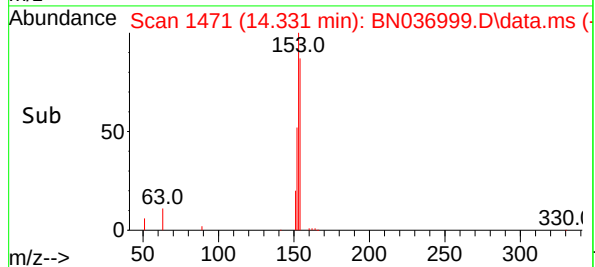
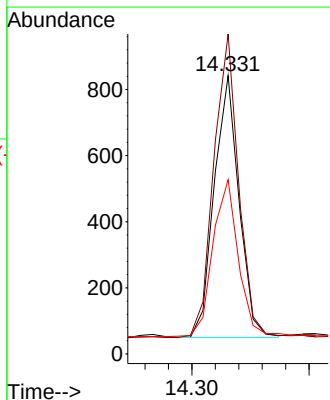
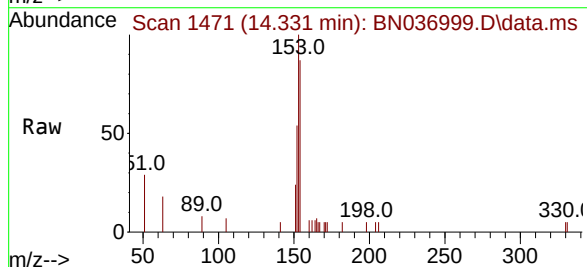
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

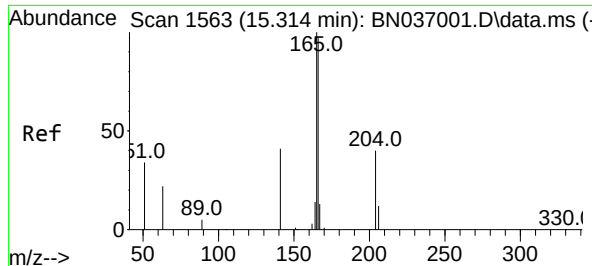
Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.1	24.1
153	12.5	10.5	15.7



#17
Acenaphthene
Concen: 0.099 ng
RT: 14.331 min Scan# 1471
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion	Ratio	Lower	Upper
154	100		
153	117.2	94.2	141.4
152	62.1	49.4	74.0

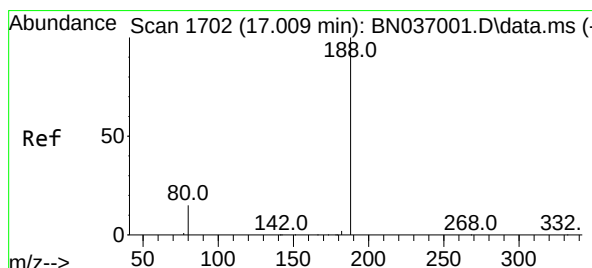
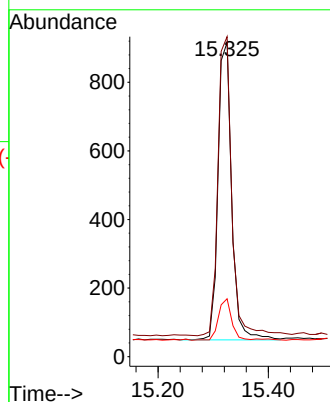
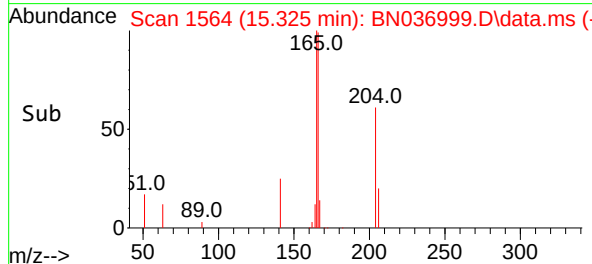
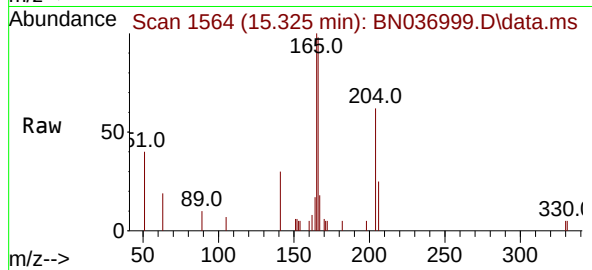




#18
Fluorene
Concen: 0.096 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.011 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

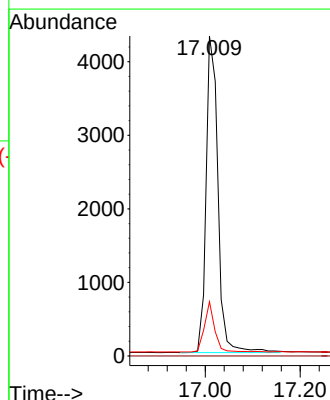
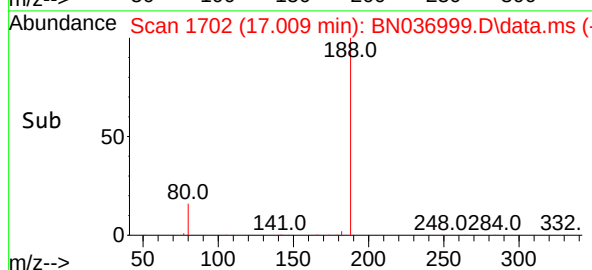
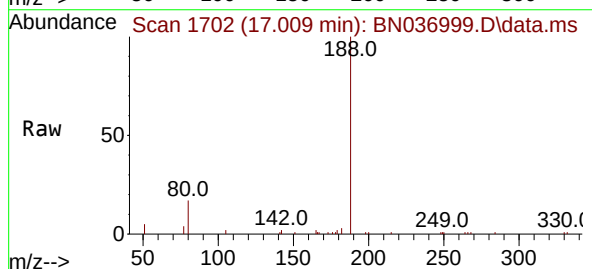
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

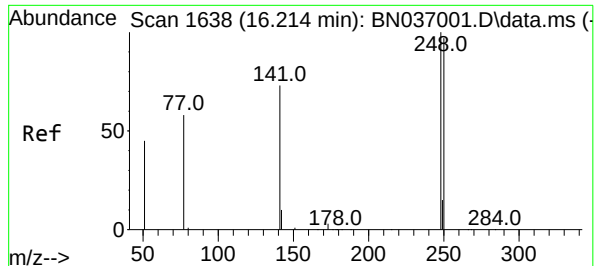
Tgt Ion:166 Resp: 1484
Ion Ratio Lower Upper
166 100
165 102.0 80.6 120.8
167 13.3 10.6 16.0



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:188 Resp: 7492
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 16.9 13.4 20.0

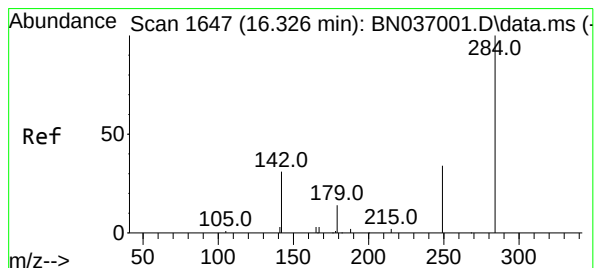
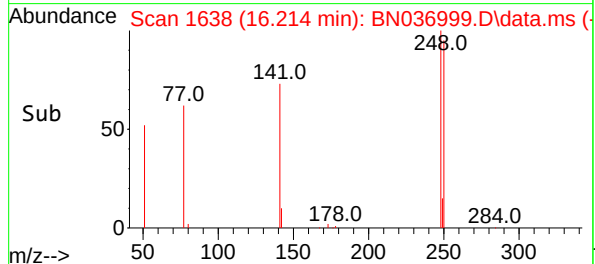
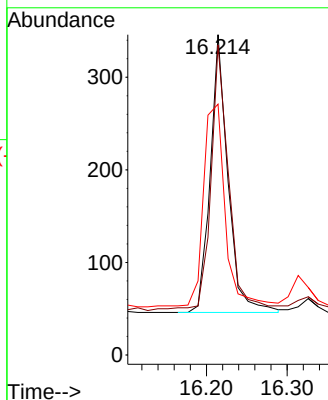
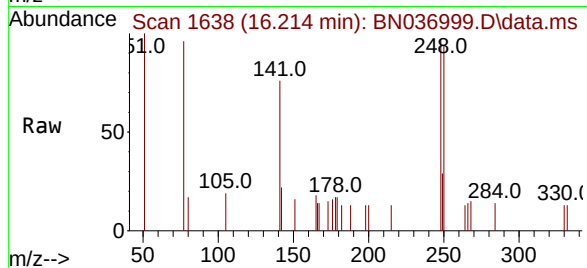




#21
4-Bromophenyl-phenylether
Concen: 0.096 ng
RT: 16.214 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

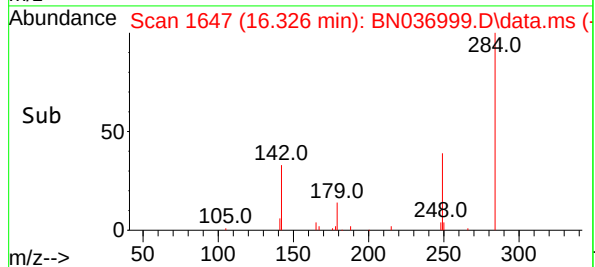
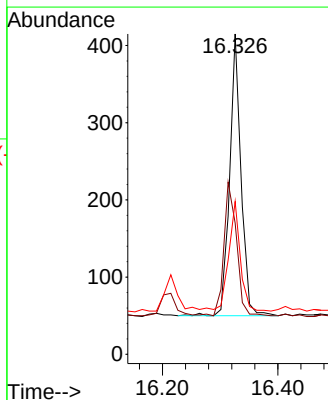
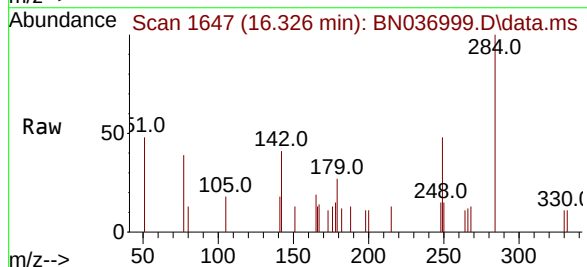
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

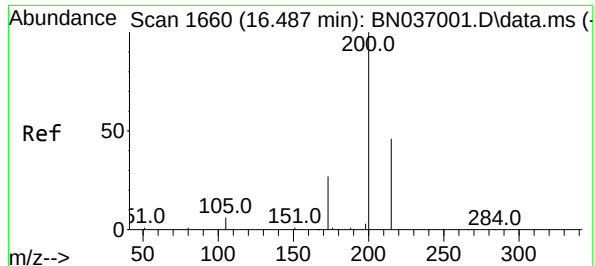
Tgt Ion	Ratio	Lower	Upper
248	100		
250	96.8	78.1	117.1
141	78.3	59.7	89.5



#22
Hexachlorobenzene
Concen: 0.099 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion	Ratio	Lower	Upper
284	100		
142	52.2	41.2	61.8
249	40.0	28.7	43.1

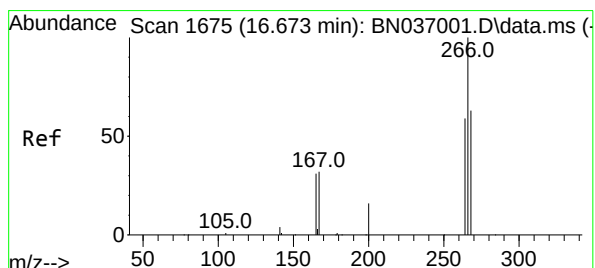
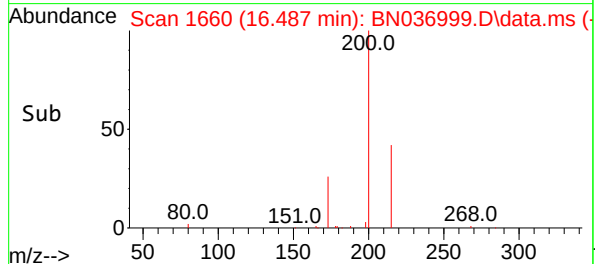
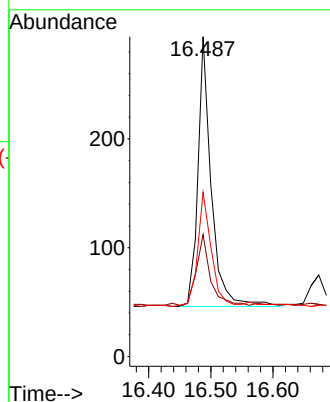
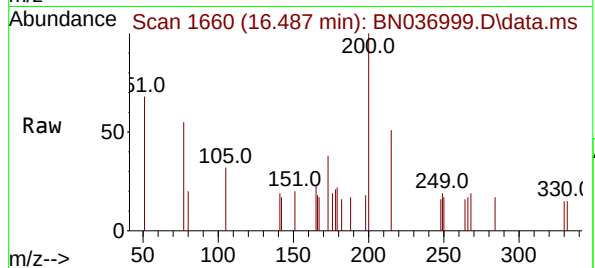




#23
Atrazine
Concen: 0.090 ng
RT: 16.487 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

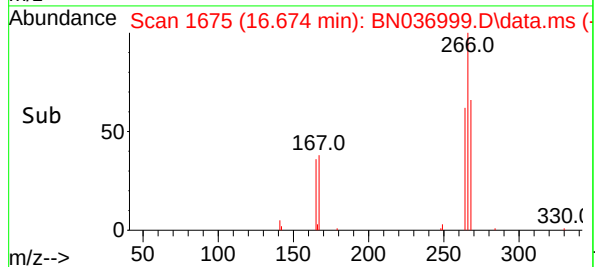
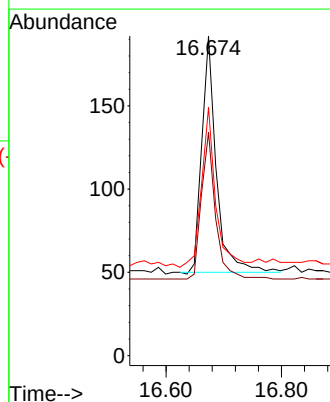
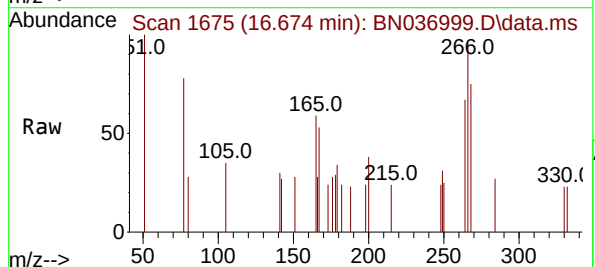
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

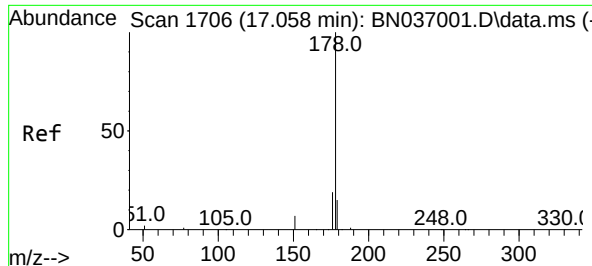
Tgt Ion:200 Resp: 372
Ion Ratio Lower Upper
200 100
173 38.1 25.2 37.8#
215 51.4 39.3 58.9



#24
Pentachlorophenol
Concen: 0.088 ng
RT: 16.674 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:266 Resp: 249
Ion Ratio Lower Upper
266 100
264 59.8 47.9 71.9
268 66.7 50.0 75.0

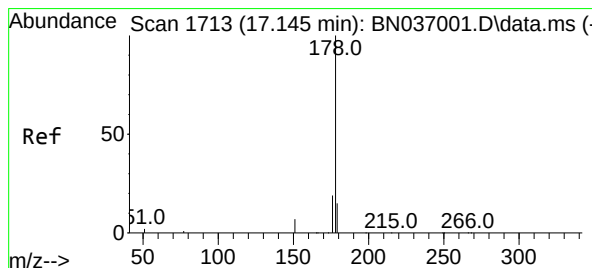
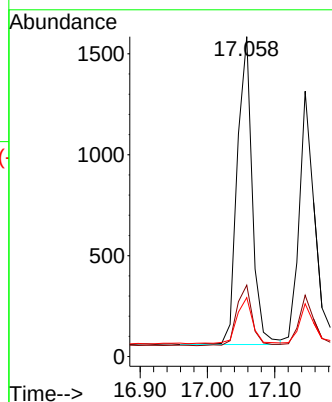
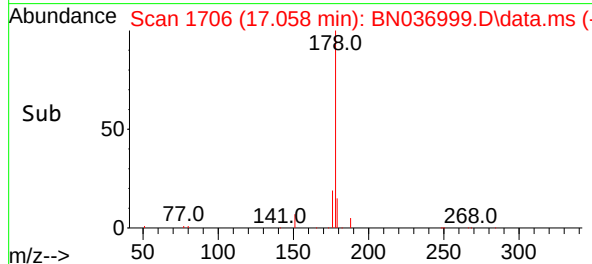
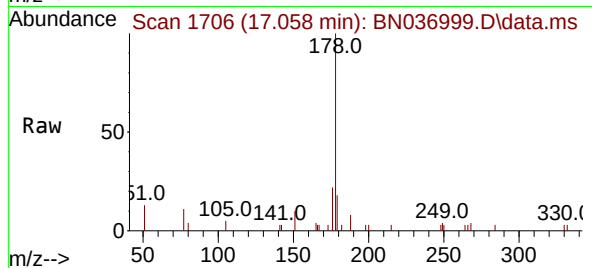




#25
Phenanthrene
Concen: 0.096 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

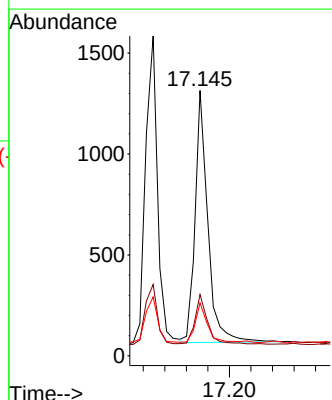
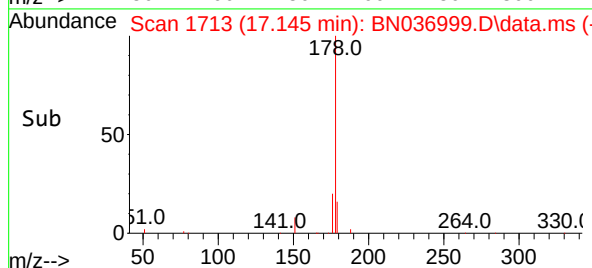
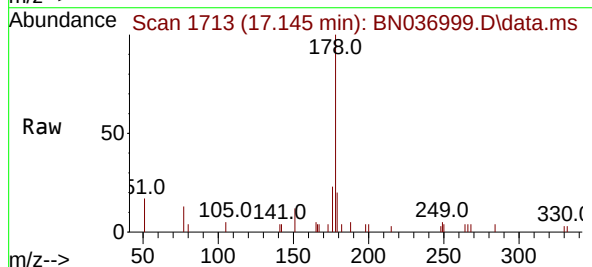
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

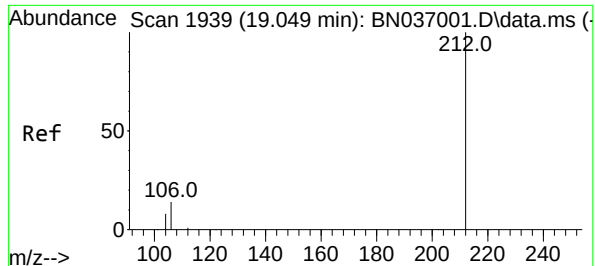
Tgt Ion	Ratio	Lower	Upper
178	100		
176	20.3	15.7	23.5
179	15.7	12.2	18.2



#26
Anthracene
Concen: 0.092 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.0	22.6
179	15.3	12.3	18.5





#27

Fluoranthene-d10

Concen: 0.094 ng

RT: 19.049 min Scan# 1939

Delta R.T. 0.000 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

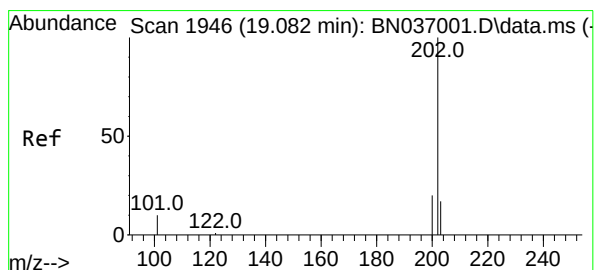
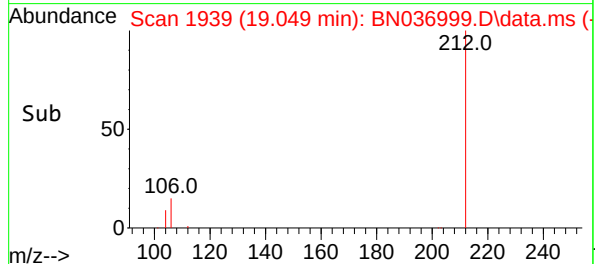
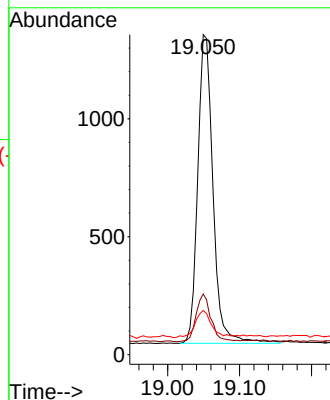
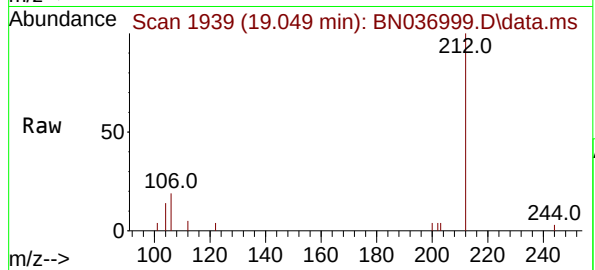
Tgt Ion:212 Resp: 1934

Ion Ratio Lower Upper

212 100

106 15.0 11.3 16.9

104 9.6 6.7 10.1



#28

Fluoranthene

Concen: 0.094 ng

RT: 19.082 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

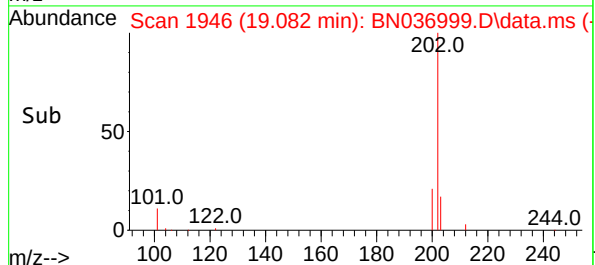
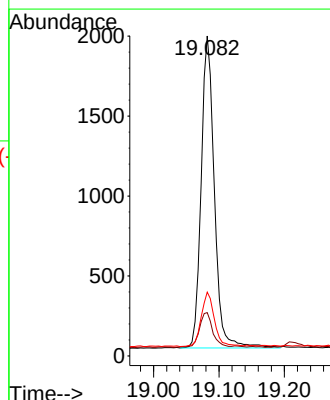
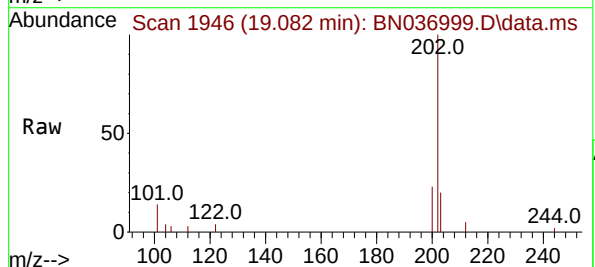
Tgt Ion:202 Resp: 2737

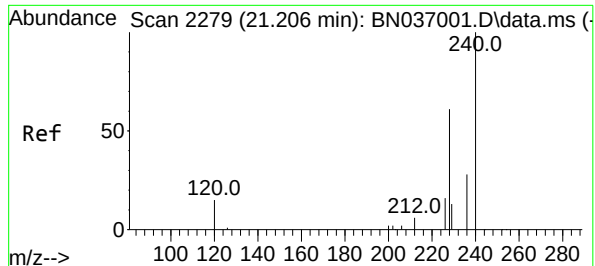
Ion Ratio Lower Upper

202 100

101 11.4 8.9 13.3

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.216 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

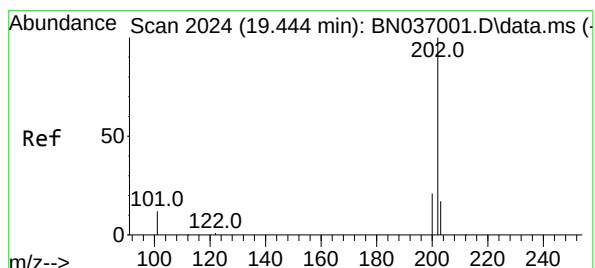
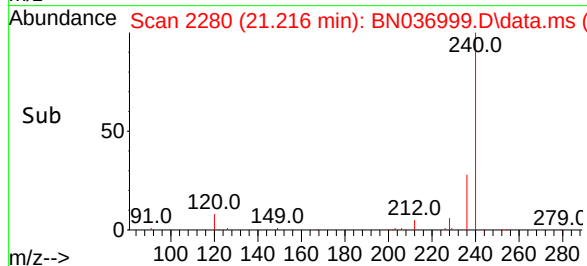
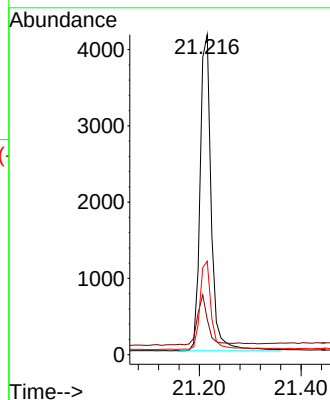
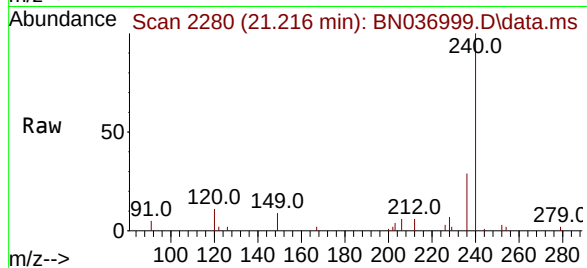
Tgt Ion:240 Resp: 6297

Ion Ratio Lower Upper

240 100

120 11.0 15.1 22.7#

236 29.2 24.0 36.0



#30

Pyrene

Concen: 0.102 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

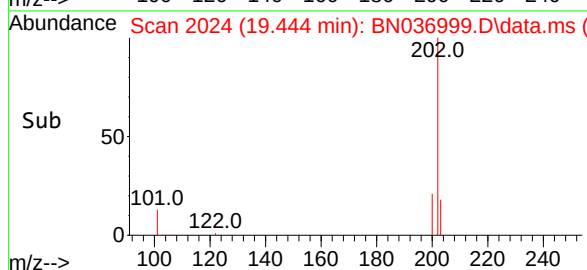
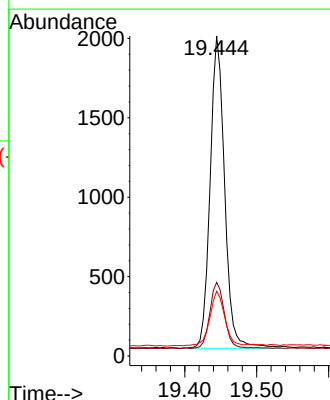
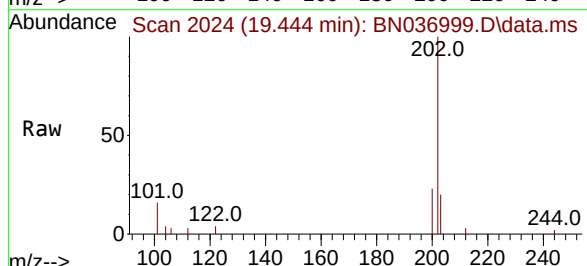
Tgt Ion:202 Resp: 2745

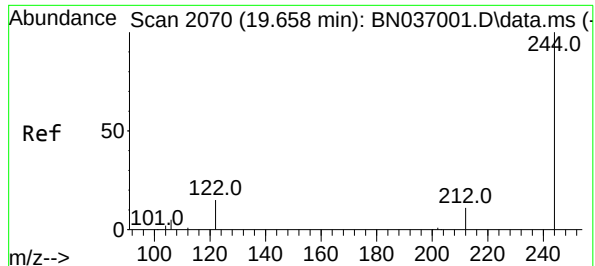
Ion Ratio Lower Upper

202 100

200 21.3 17.1 25.7

203 18.1 14.2 21.4

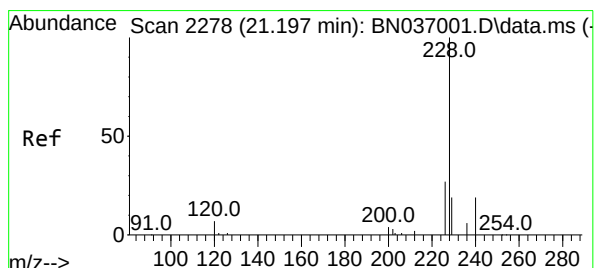
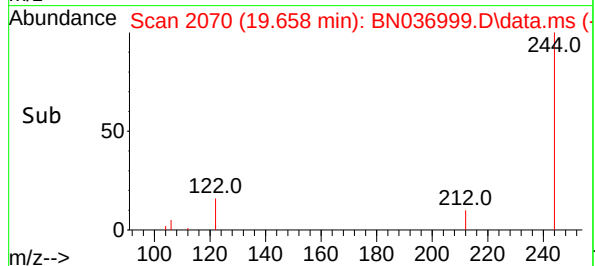
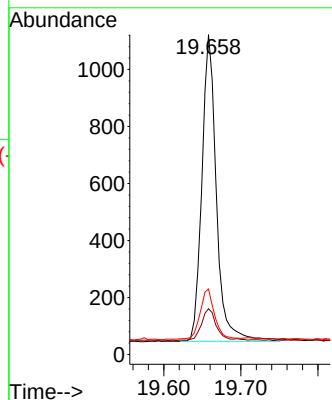
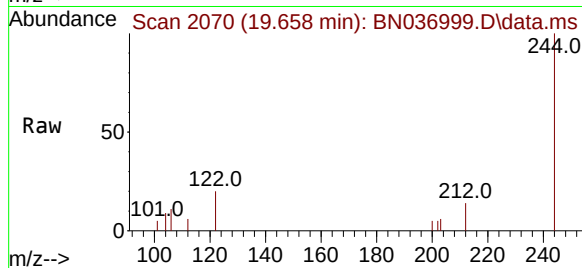




#31
Terphenyl-d14
Concen: 0.105 ng
RT: 19.658 min Scan# 2070
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

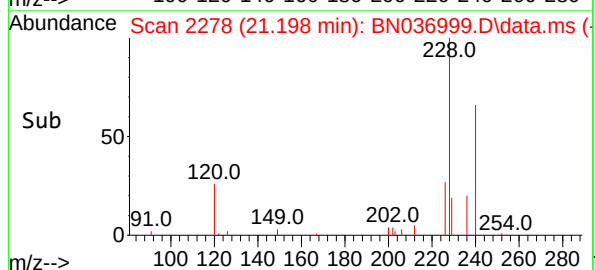
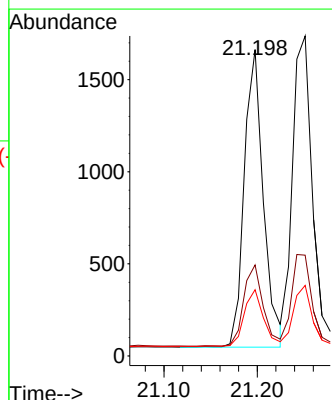
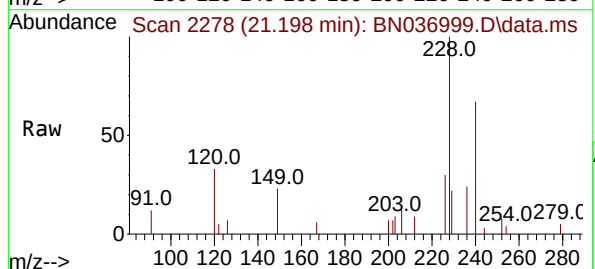
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

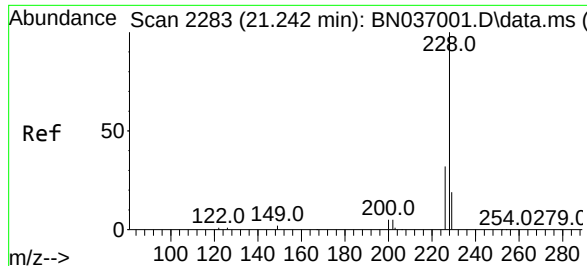
Tgt Ion:244 Resp: 1412
Ion Ratio Lower Upper
244 100
212 14.3 9.7 14.5
122 20.5 13.4 20.0#



#32
Benzo(a)anthracene
Concen: 0.097 ng
RT: 21.198 min Scan# 2278
Delta R.T. 0.000 min
Lab File: BN036999.D
Acq: 13 May 2025 17:41

Tgt Ion:228 Resp: 2303
Ion Ratio Lower Upper
228 100
226 29.7 22.2 33.4
229 21.6 16.0 24.0





#33

Chrysene

Concen: 0.104 ng

RT: 21.251 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

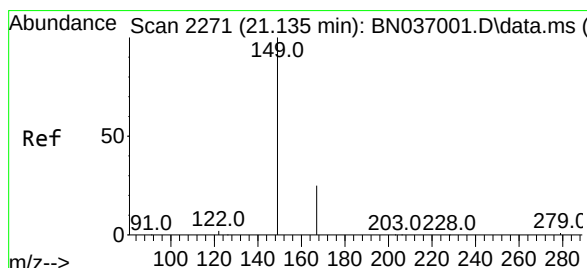
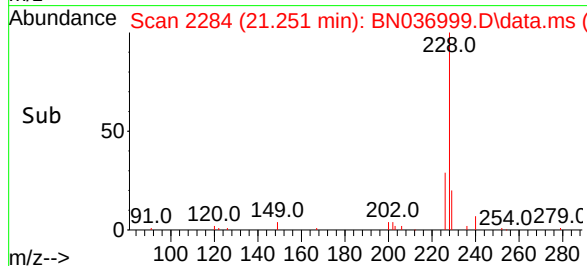
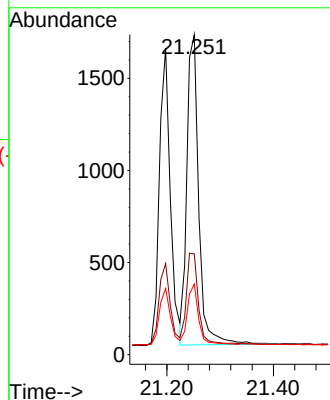
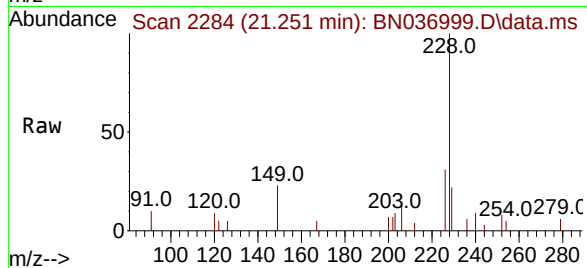
Tgt Ion:228 Resp: 2605

Ion Ratio Lower Upper

228 100

226 31.5 26.3 39.5

229 22.0 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.103 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

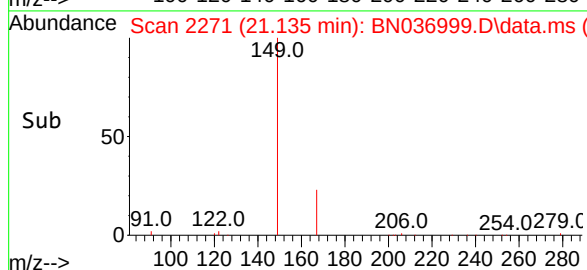
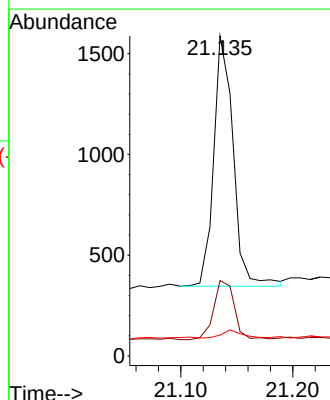
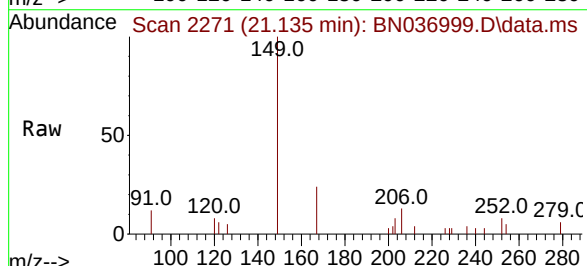
Tgt Ion:149 Resp: 1504

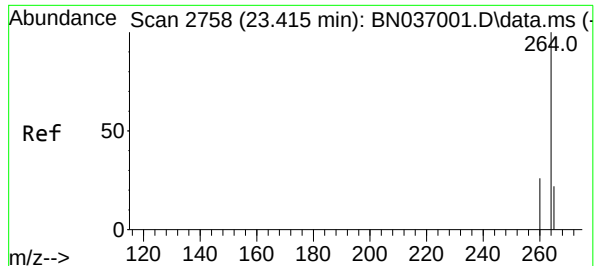
Ion Ratio Lower Upper

149 100

167 25.1 20.6 30.8

279 3.1 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.418 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036999.D

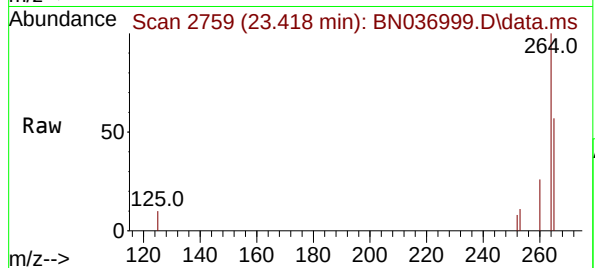
Acq: 13 May 2025 17:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



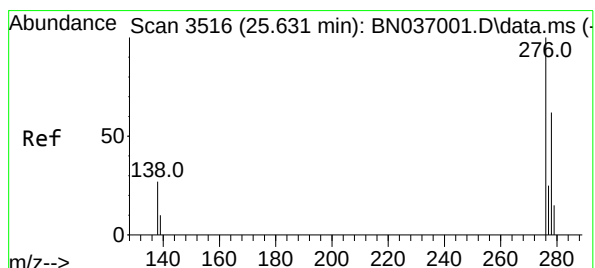
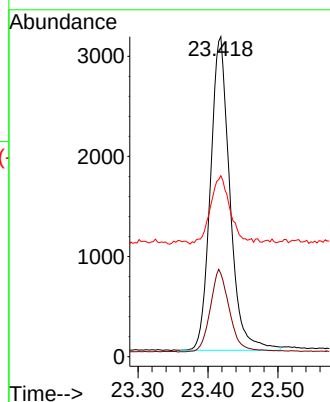
Tgt Ion:264 Resp: 6037

Ion Ratio Lower Upper

264 100

260 25.9 21.9 32.9

265 56.5 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.092 ng

RT: 25.629 min Scan# 3515

Delta R.T. -0.003 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

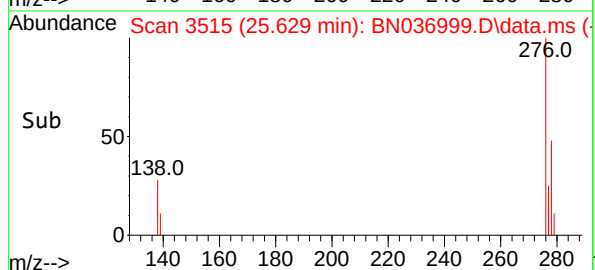
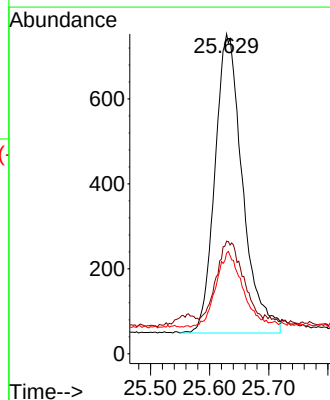
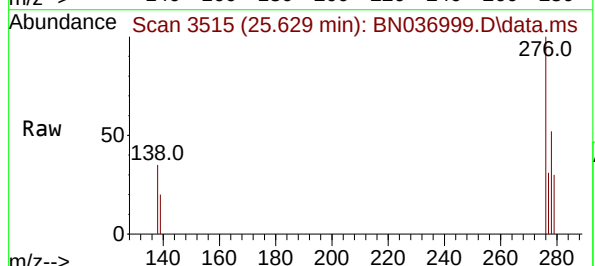
Tgt Ion:276 Resp: 2280

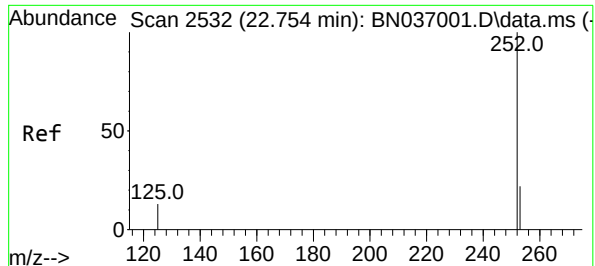
Ion Ratio Lower Upper

276 100

138 25.8 22.7 34.1

277 24.3 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.098 ng

RT: 22.758 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

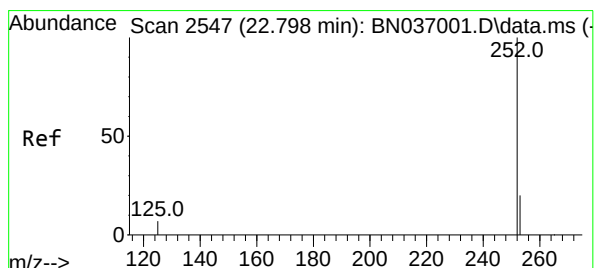
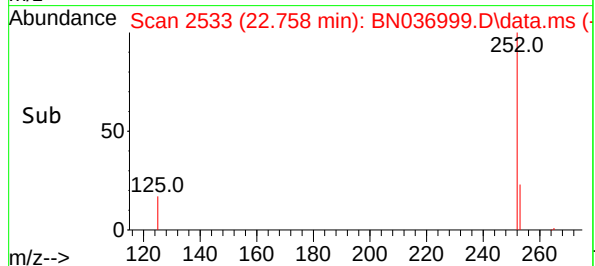
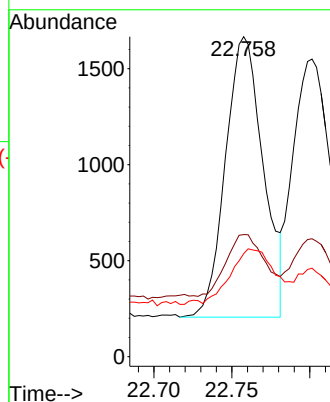
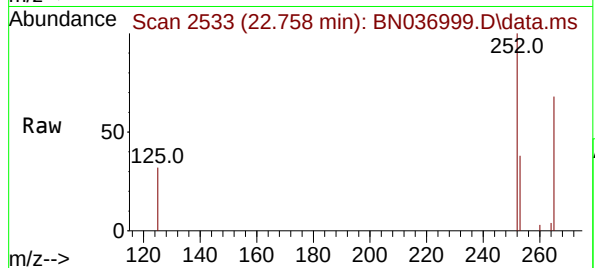
Tgt Ion:252 Resp: 2461

Ion Ratio Lower Upper

252 100

253 38.2 21.8 32.6#

125 32.2 14.6 21.8#



#38

Benzo(k)fluoranthene

Concen: 0.094 ng

RT: 22.801 min Scan# 2548

Delta R.T. 0.003 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

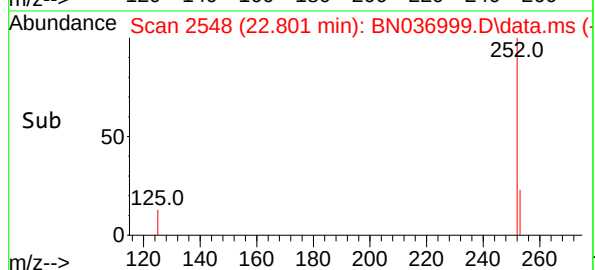
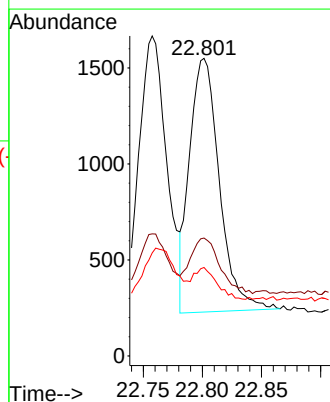
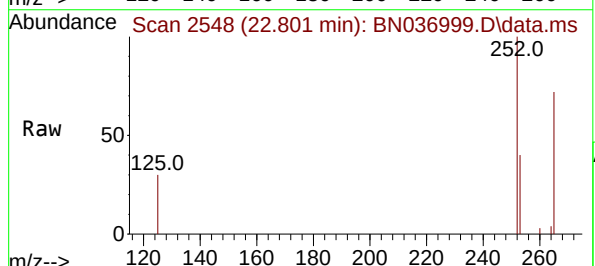
Tgt Ion:252 Resp: 2322

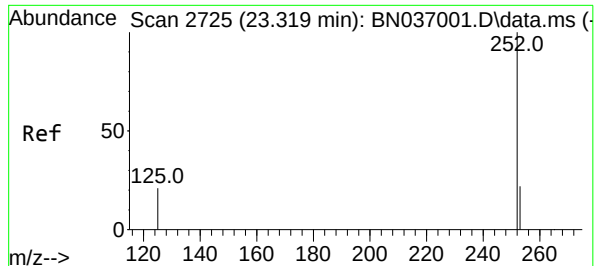
Ion Ratio Lower Upper

252 100

253 39.6 21.4 32.2#

125 29.7 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 0.098 ng

RT: 23.322 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

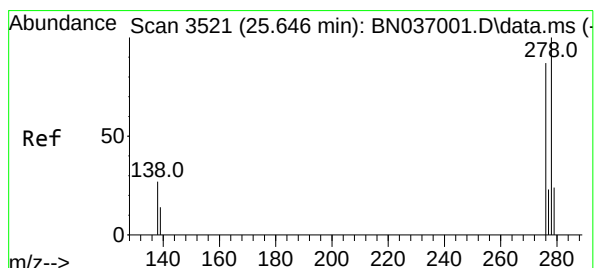
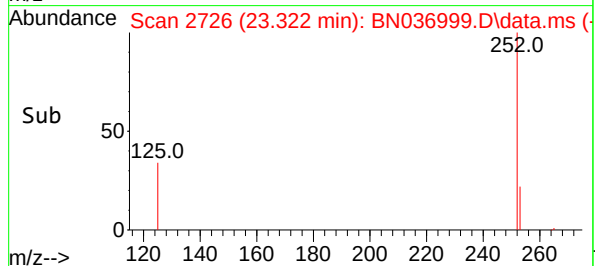
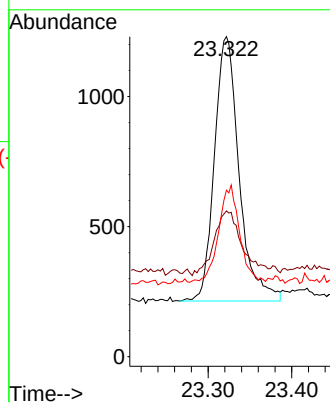
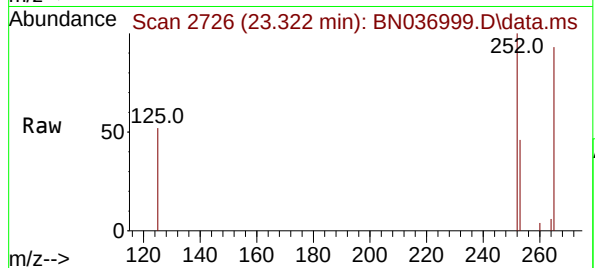
Tgt Ion:252 Resp: 2083

Ion Ratio Lower Upper

252 100

253 45.5 23.8 35.6#

125 52.0 21.8 32.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.088 ng

RT: 25.646 min Scan# 3521

Delta R.T. 0.000 min

Lab File: BN036999.D

Acq: 13 May 2025 17:41

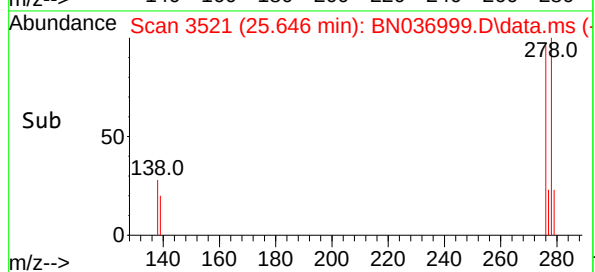
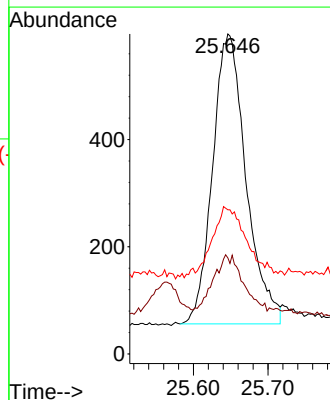
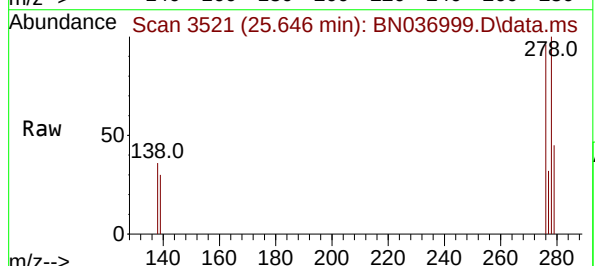
Tgt Ion:278 Resp: 1685

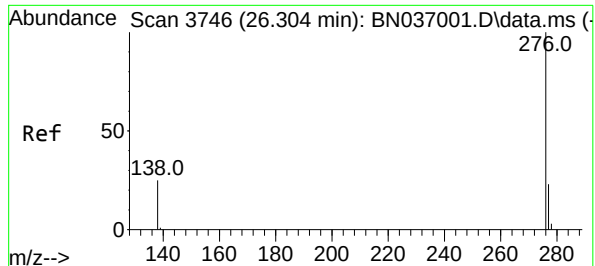
Ion Ratio Lower Upper

278 100

139 30.0 17.4 26.0#

279 45.1 24.6 37.0#





#41

Benzo(g,h,i)perylene

Concen: 0.094 ng

RT: 26.304 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN036999.D

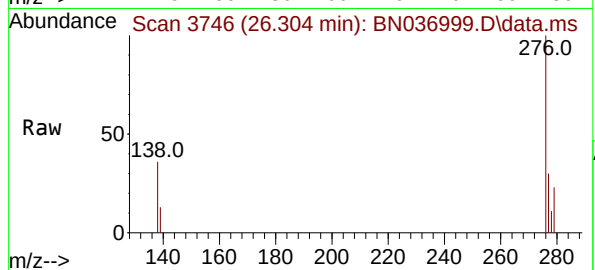
Acq: 13 May 2025 17:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



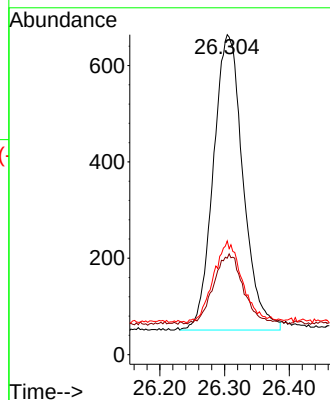
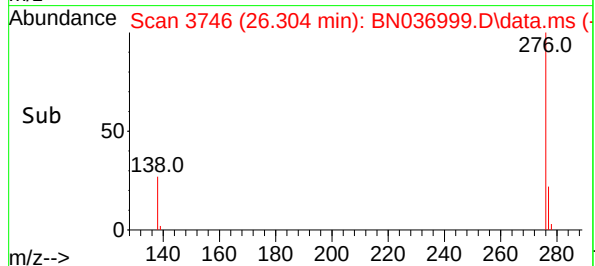
Tgt Ion:276 Resp: 1960

Ion Ratio Lower Upper

276 100

277 30.1 20.2 30.4

138 35.5 22.0 33.0#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037000.D
 Acq On : 13 May 2025 18:17
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/15/2025
 Supervised By :Jagrut Upadhyay 05/15/2025

Quant Time: May 14 11:00:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 10:57:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	2140	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	5637	0.400	ng	0.00
13) Acenaphthene-d10	14.266	164	3174	0.400	ng	0.00
19) Phenanthrene-d10	17.009	188	6255	0.400	ng	0.00
29) Chrysene-d12	21.206	240	5420	0.400	ng	0.00
35) Perylene-d12	23.415	264	5487	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	1178	0.210	ng	0.00
5) Phenol-d6	6.795	99	1395	0.199	ng	0.00
8) Nitrobenzene-d5	8.771	82	1080	0.176	ng	0.00
11) 2-Methylnaphthalene-d10	11.996	152	1543	0.194	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	267	0.192	ng	0.00
15) 2-Fluorobiphenyl	12.888	172	2858	0.197	ng	0.00
27) Fluoranthene-d10	19.049	212	3232	0.188	ng	0.00
31) Terphenyl-d14	19.658	244	2287	0.197	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.140	88	546	0.208	ng	97
3) n-Nitrosodimethylamine	3.458	42	1042	0.185	ng	# 95
6) bis(2-Chloroethyl)ether	7.048	93	1244	0.193	ng	99
9) Naphthalene	10.447	128	3213	0.193	ng	99
10) Hexachlorobutadiene	10.746	225	698	0.200	ng	# 99
12) 2-Methylnaphthalene	12.072	142	2041	0.191	ng	99
16) Acenaphthylene	13.978	152	2917	0.189	ng	99
17) Acenaphthene	14.331	154	1950	0.193	ng	99
18) Fluorene	15.325	166	2509	0.189	ng	99
20) 4,6-Dinitro-2-methylph...	15.410	198	187	0.167	ng	# 48
21) 4-Bromophenyl-phenylether	16.214	248	770	0.195	ng	99
22) Hexachlorobenzene	16.326	284	840	0.199	ng	98
23) Atrazine	16.487	200	647	0.188	ng	98
24) Pentachlorophenol	16.673	266	419	0.178	ng	98
25) Phenanthrene	17.058	178	3977	0.195	ng	100
26) Anthracene	17.145	178	3452	0.186	ng	99
28) Fluoranthene	19.082	202	4499	0.184	ng	99
30) Pyrene	19.444	202	4629	0.200	ng	100
32) Benzo(a)anthracene	21.197	228	3882	0.190	ng	98
33) Chrysene	21.251	228	4226	0.196	ng	98
34) Bis(2-ethylhexyl)phtha...	21.135	149	2490	0.198	ng	99
36) Indeno(1,2,3-cd)pyrene	25.628	276	4426	0.198	ng	99
37) Benzo(b)fluoranthene	22.757	252	4306m	0.189	ng	
38) Benzo(k)fluoranthene	22.798	252	4219	0.188	ng	# 91
39) Benzo(a)pyrene	23.322	252	3685	0.191	ng	# 88
40) Dibenzo(a,h)anthracene	25.646	278	3380	0.194	ng	94
41) Benzo(g,h,i)perylene	26.301	276	3861	0.204	ng	96

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

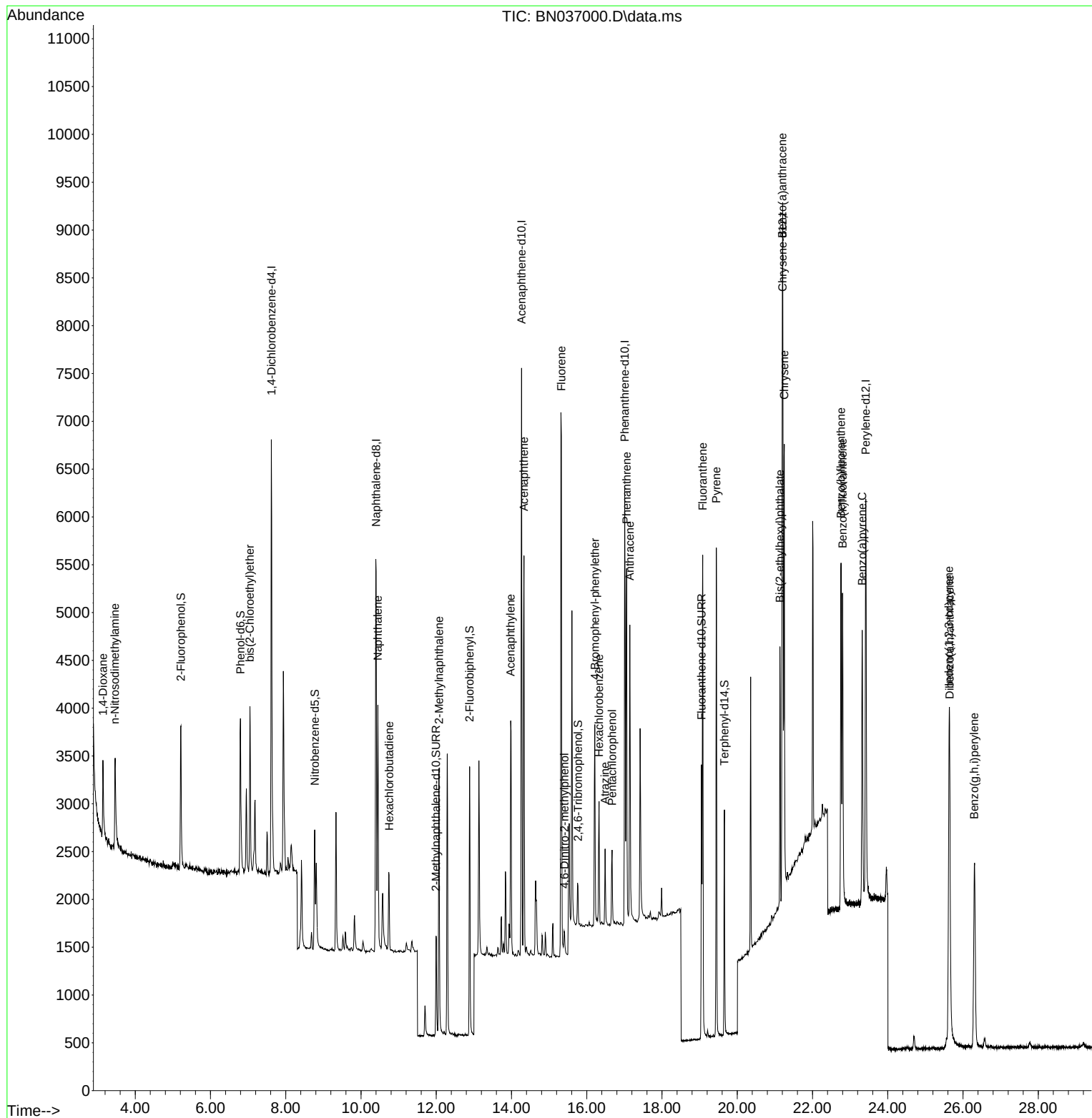
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037000.D
 Acq On : 13 May 2025 18:17
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

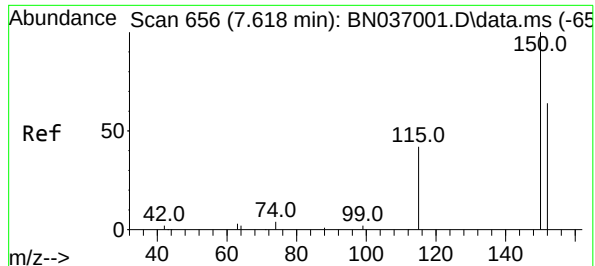
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

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Reviewed By :Rahul Chavli 05/15/2025
 Supervised By :Jagrut Upadhyay 05/15/2025

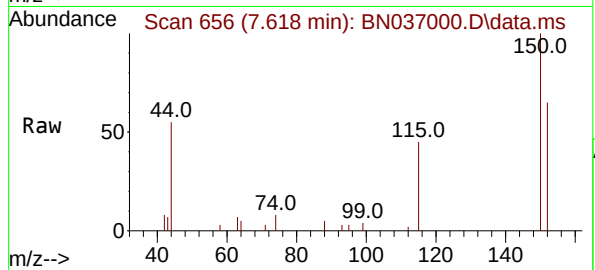
Quant Time: May 14 11:00:10 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 10:57:36 2025
 Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 656
Delta R.T. 0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

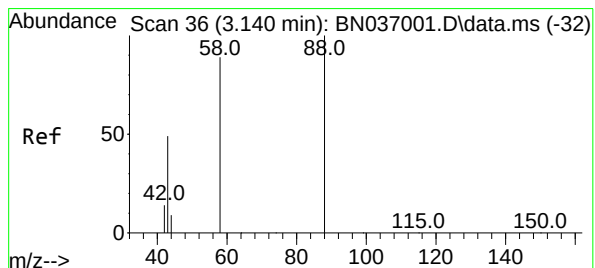
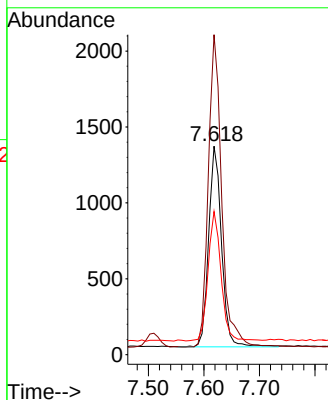
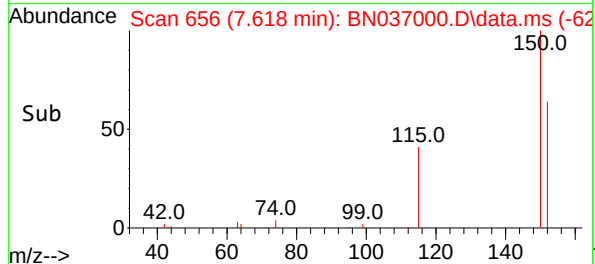
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 152 Resp: 2140
Ion Ratio Lower Upper
152 100
150 153.5 123.9 185.9
115 68.7 55.8 83.8

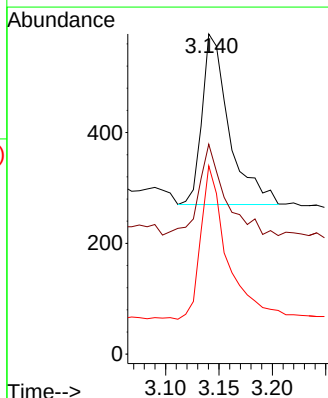
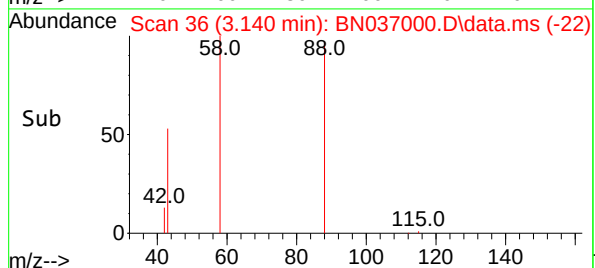
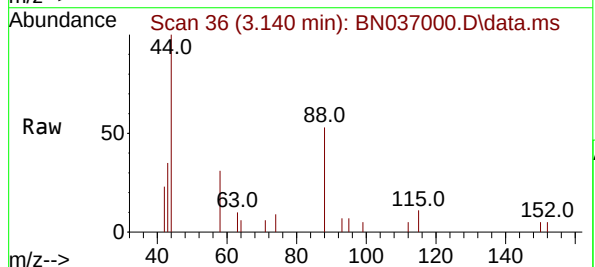
Manual Integrations
APPROVED

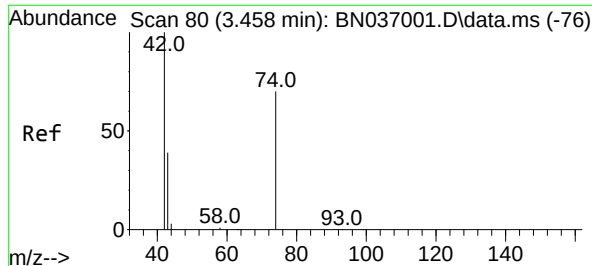
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#2
1,4-Dioxane
Concen: 0.208 ng
RT: 3.140 min Scan# 36
Delta R.T. 0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

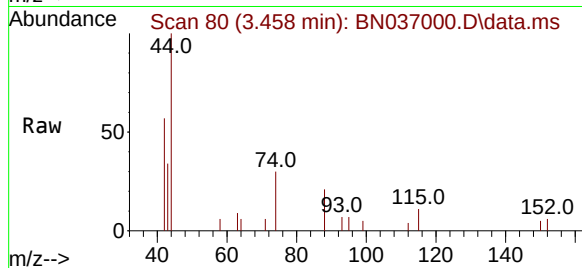
Tgt Ion: 88 Resp: 546
Ion Ratio Lower Upper
88 100
43 52.4 37.4 56.0
58 85.7 68.8 103.2





#3
n-Nitrosodimethylamine
Concen: 0.185 ng
RT: 3.458 min Scan# 80
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

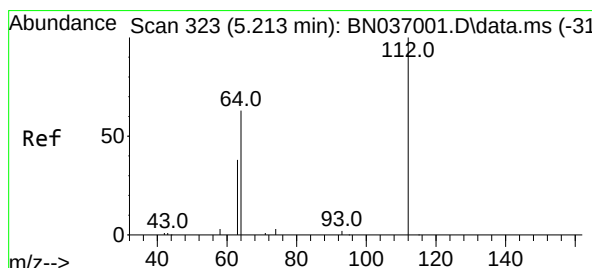
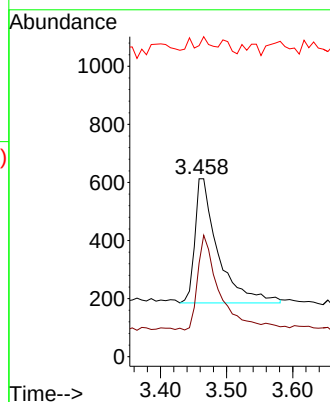
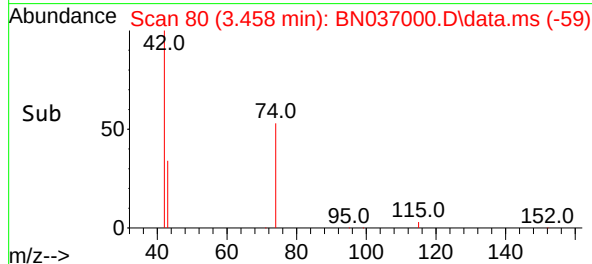
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 42 Resp: 104
Ion Ratio Lower Upper
42 100
74 72.6 59.8 89.6
44 7.5 11.9 17.9

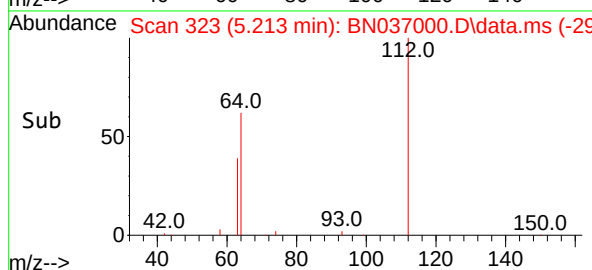
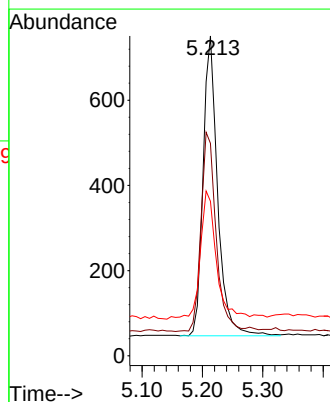
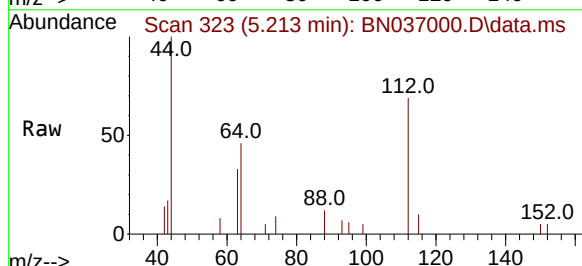
Manual Integrations
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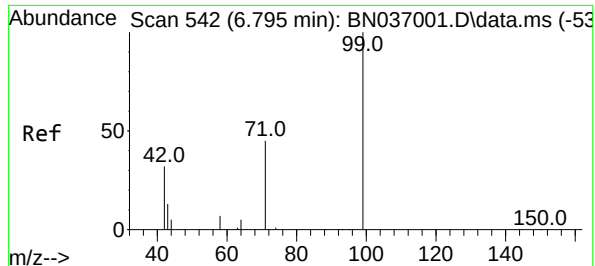
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#4
2-Fluorophenol
Concen: 0.210 ng
RT: 5.213 min Scan# 323
Delta R.T. 0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

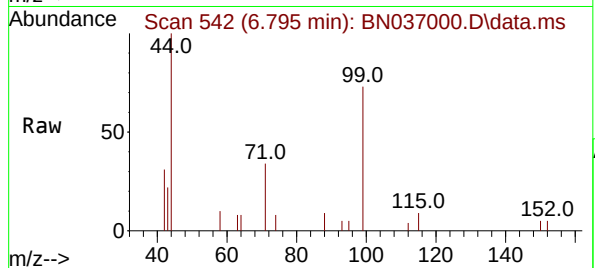
Tgt Ion:112 Resp: 1178
Ion Ratio Lower Upper
112 100
64 68.7 55.7 83.5
63 47.2 34.6 51.8





#5
Phenol-d6
Concen: 0.199 ng
RT: 6.795 min Scan# 542
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

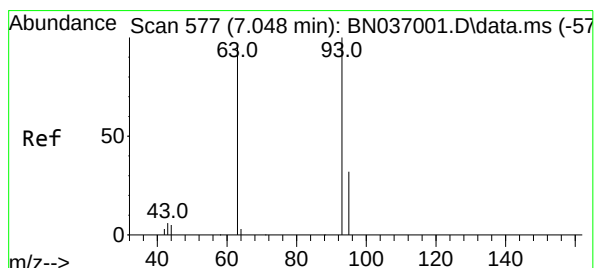
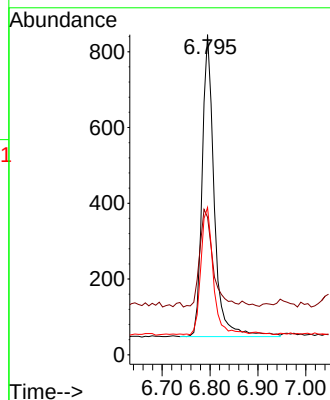
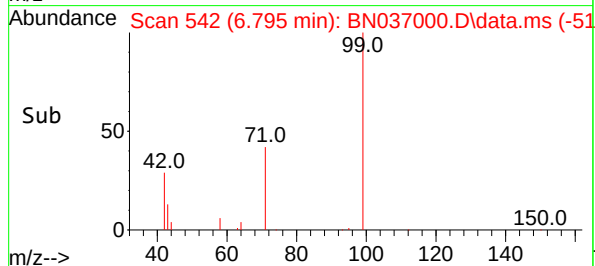
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion: 99 Resp: 139
Ion Ratio Lower Upper
99 100
42 34.2 29.3 43.9
71 42.7 35.7 53.5

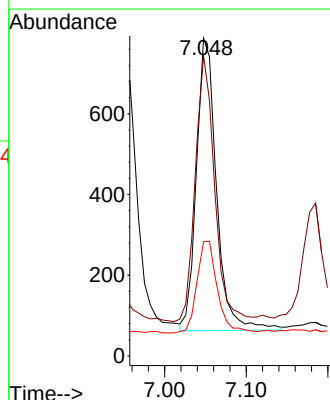
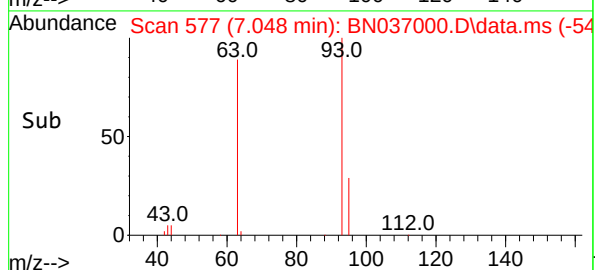
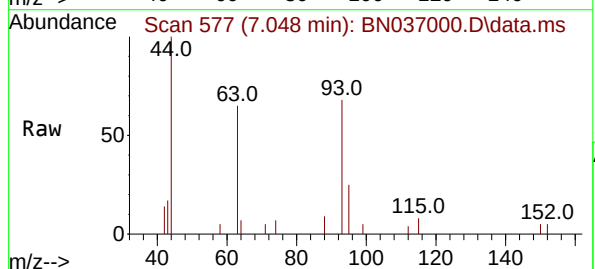
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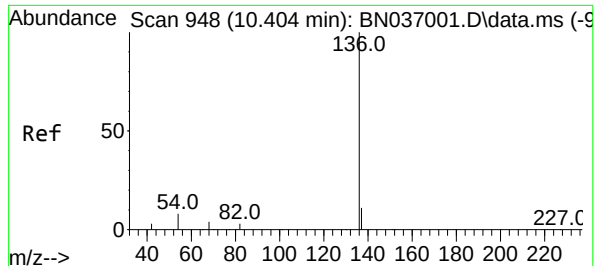
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.193 ng
RT: 7.048 min Scan# 577
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion: 93 Resp: 1244
Ion Ratio Lower Upper
93 100
63 86.9 70.1 105.1
95 31.8 26.2 39.2





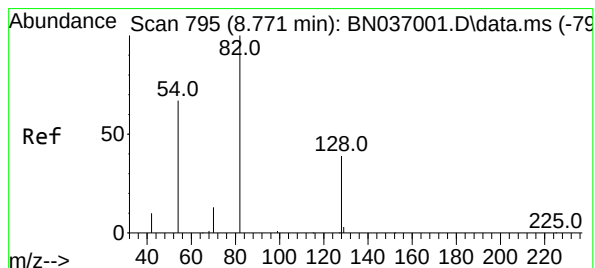
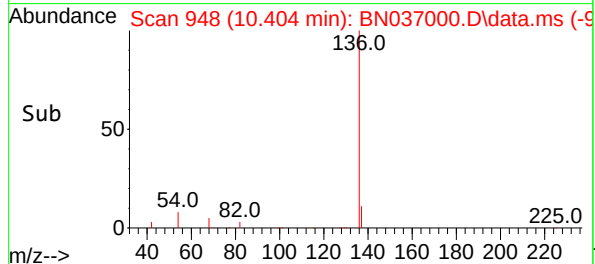
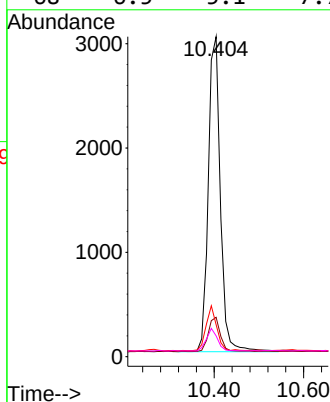
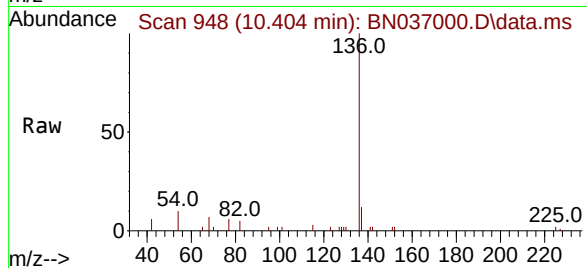
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
136	100		
137	12.3	10.4	15.6
54	10.0	8.5	12.7
68	6.5	5.1	7.7

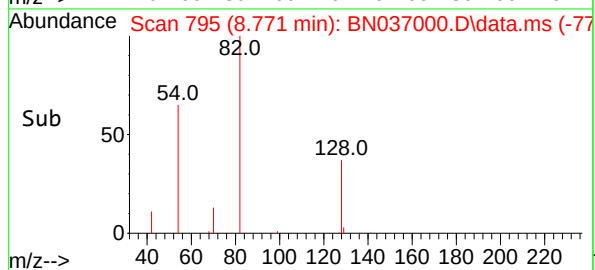
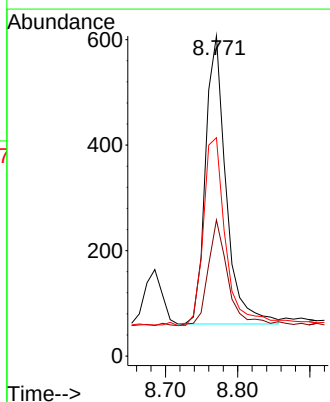
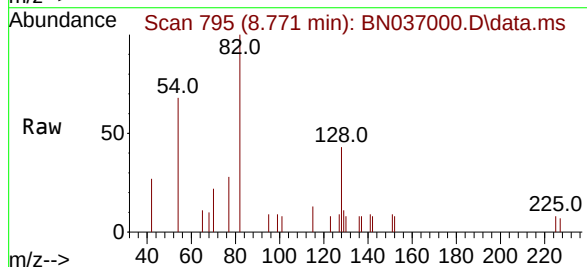
Manual Integrations
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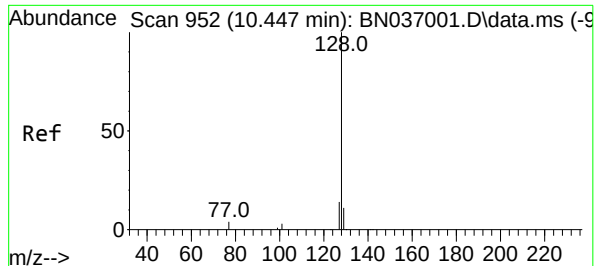
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#8
Nitrobenzene-d5
Concen: 0.176 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion	Ratio	Lower	Upper
82	100		
128	42.5	34.0	51.0
54	68.2	55.0	82.4





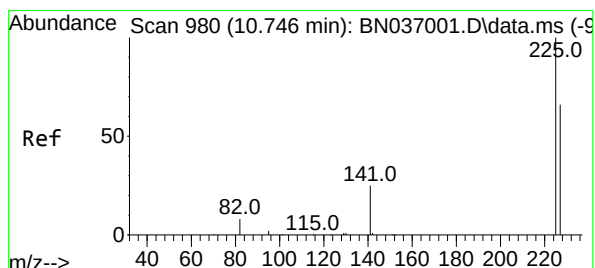
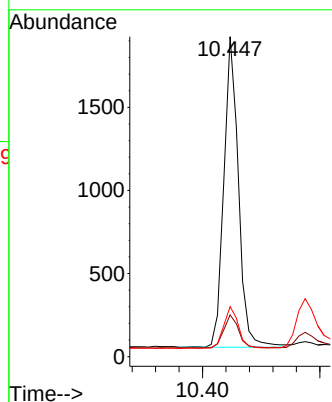
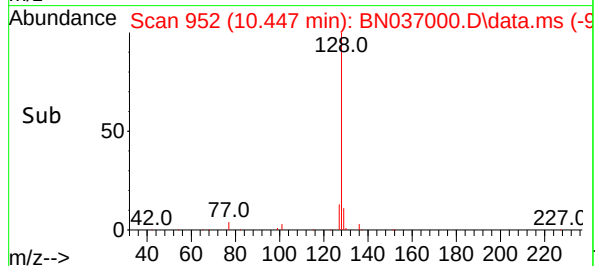
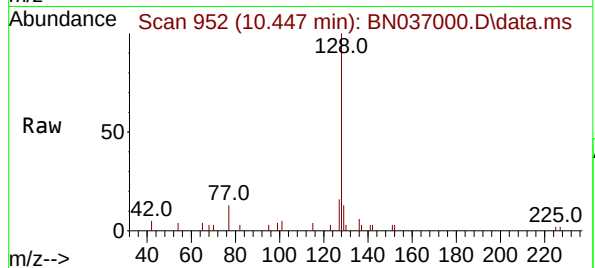
#9
Naphthalene
Concen: 0.193 ng
RT: 10.447 min Scan# 952
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion	Ratio	Lower	Upper
128	100		
129	13.0	9.7	14.5
127	15.6	12.4	18.6

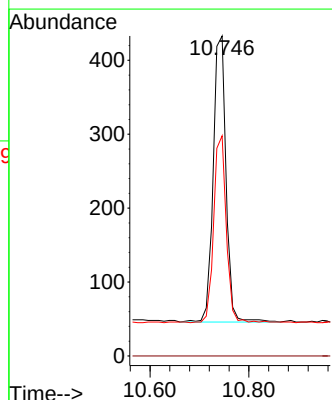
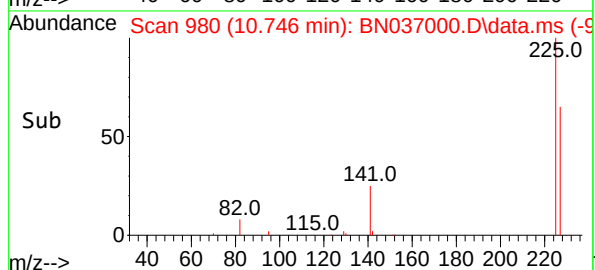
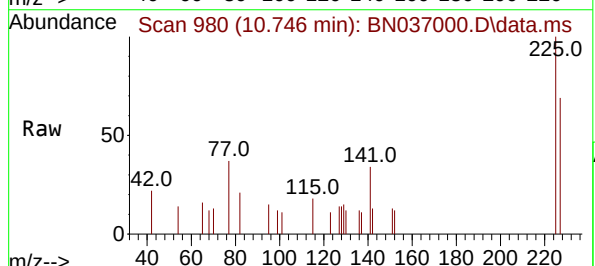
Manual Integrations
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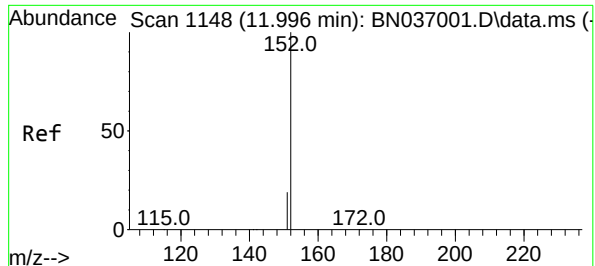
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#10
Hexachlorobutadiene
Concen: 0.200 ng
RT: 10.746 min Scan# 980
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

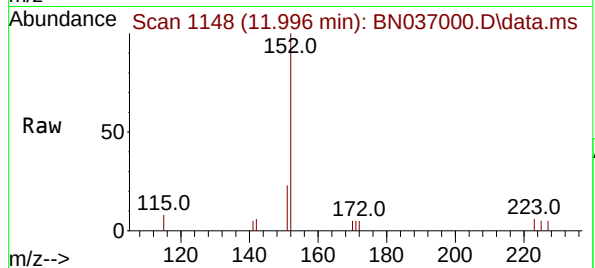
Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.6	50.9	76.3





#11
2-Methylnaphthalene-d10
Concen: 0.194 ng
RT: 11.996 min Scan# 1148
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

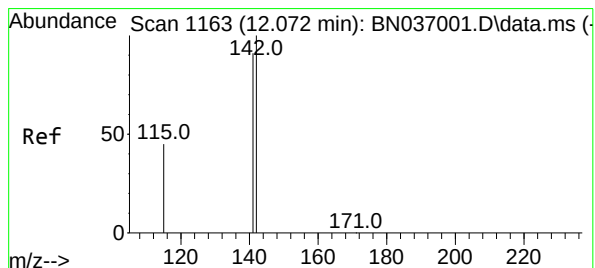
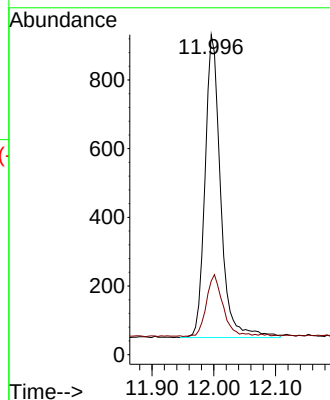
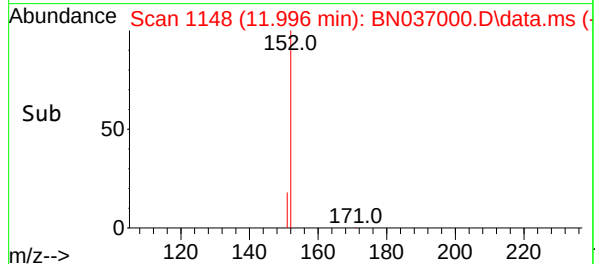
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:152 Resp: 154
Ion Ratio Lower Upper
152 100
151 22.0 17.5 26.3

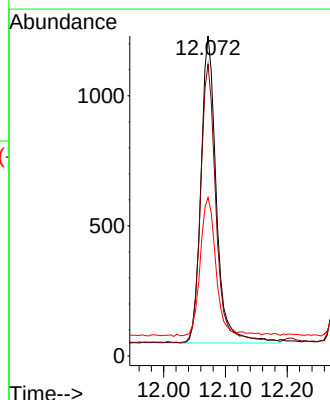
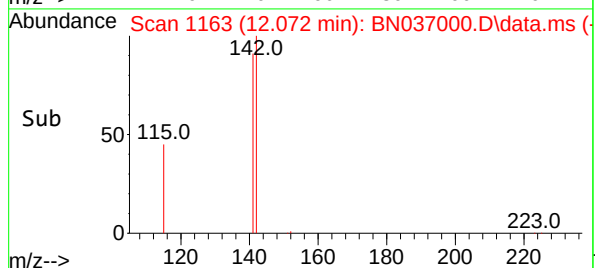
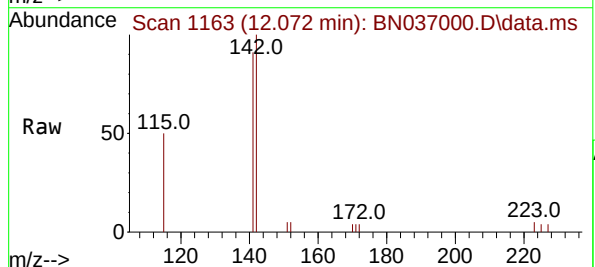
Manual Integrations
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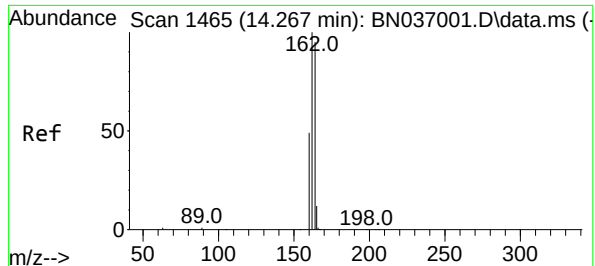
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#12
2-Methylnaphthalene
Concen: 0.191 ng
RT: 12.072 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

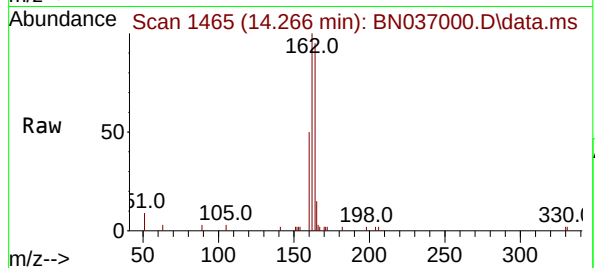
Tgt Ion:142 Resp: 2041
Ion Ratio Lower Upper
142 100
141 91.1 73.3 109.9
115 49.5 38.4 57.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.266 min Scan# 1465
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

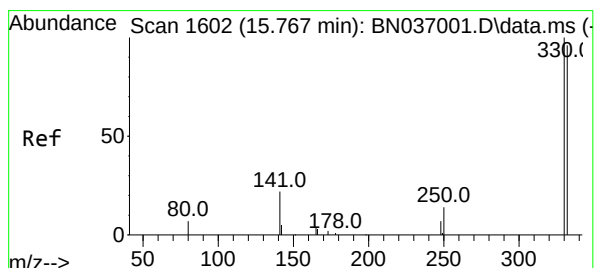
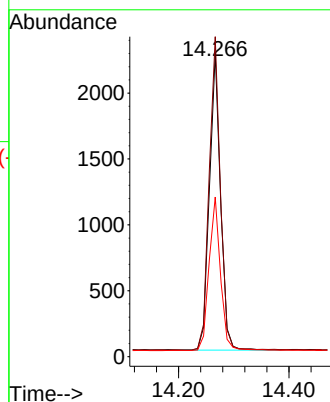
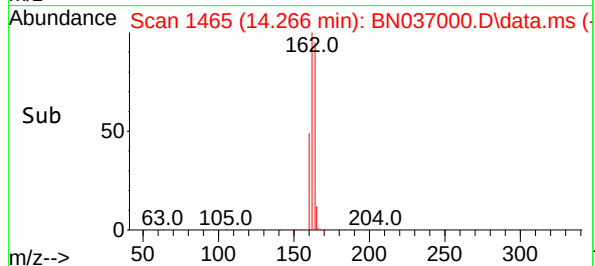
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



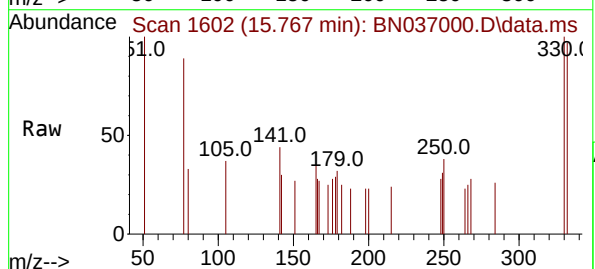
Tgt Ion:164 Resp: 3174
Ion Ratio Lower Upper
164 100
162 105.4 84.2 126.4
160 52.6 42.6 63.8

Manual Integrations
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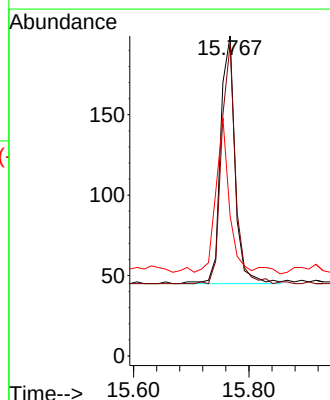
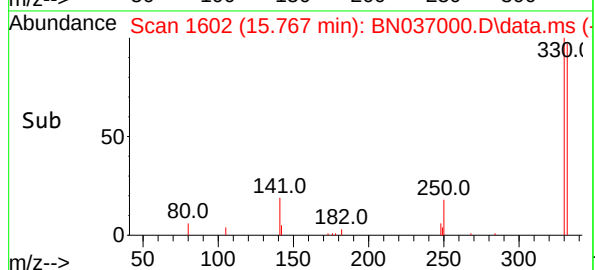
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

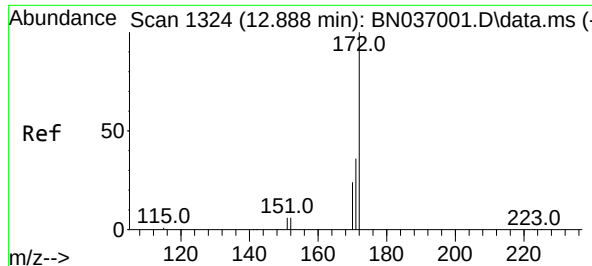


#14
2,4,6-Tribromophenol
Concen: 0.192 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17



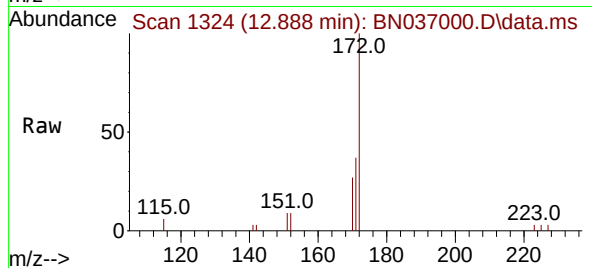
Tgt Ion:330 Resp: 267
Ion Ratio Lower Upper
330 100
332 93.3 73.8 110.8
141 58.1 43.9 65.9





#15
2-Fluorobiphenyl
Concen: 0.197 ng
RT: 12.888 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

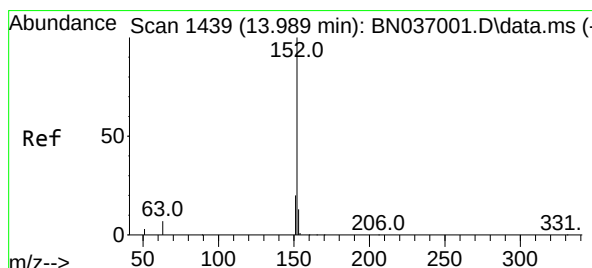
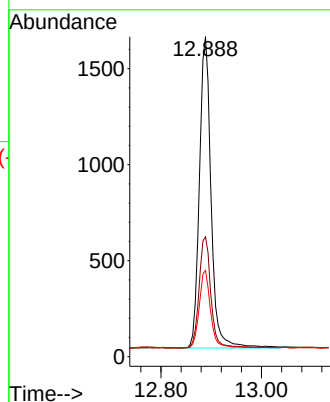
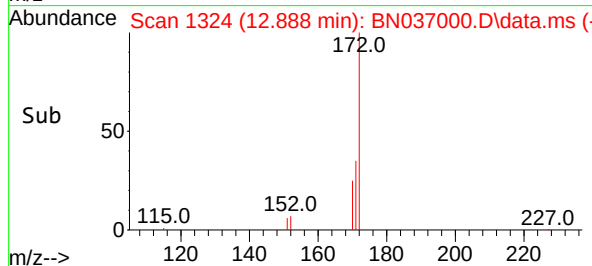
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:172 Resp: 285
Ion Ratio Lower Upper
172 100
171 37.4 29.2 43.8
170 26.9 20.5 30.7

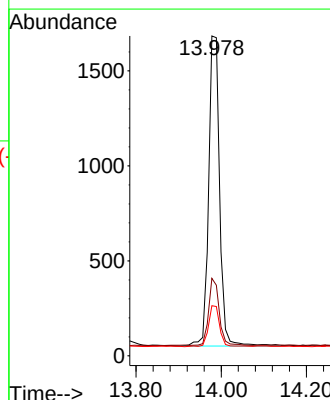
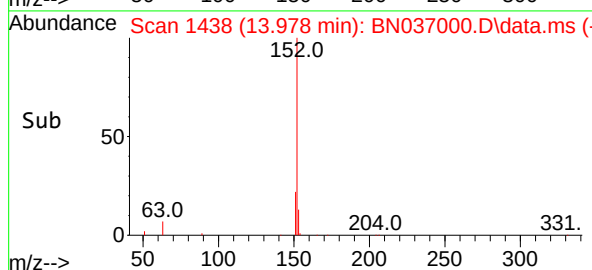
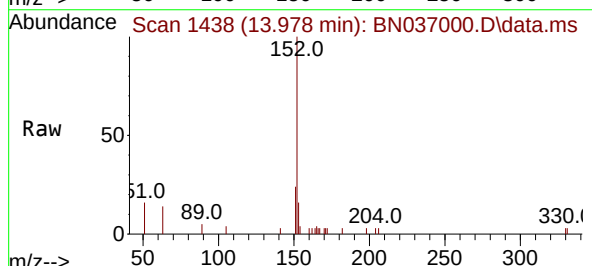
Manual Integrations
APPROVED

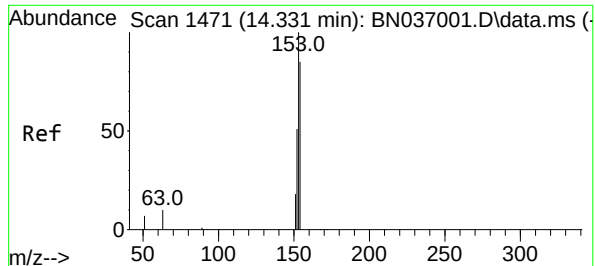
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#16
Acenaphthylene
Concen: 0.189 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.011 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

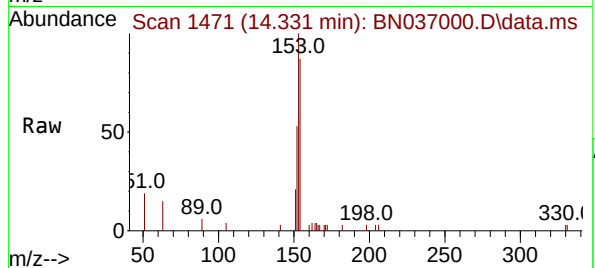
Tgt Ion:152 Resp: 2917
Ion Ratio Lower Upper
152 100
151 20.6 16.1 24.1
153 13.7 10.5 15.7





#17
Acenaphthene
Concen: 0.193 ng
RT: 14.331 min Scan# 1471
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

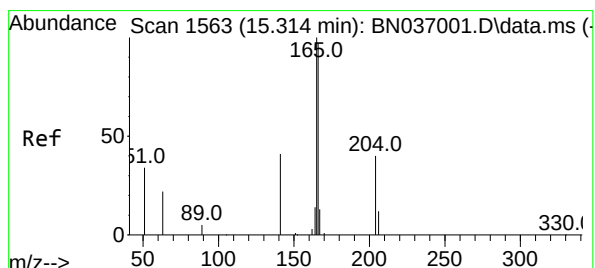
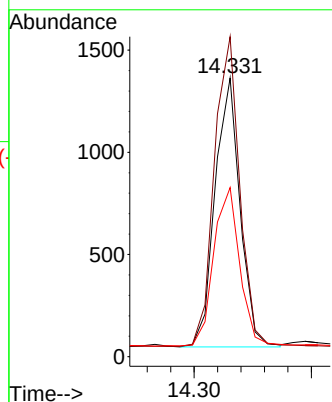
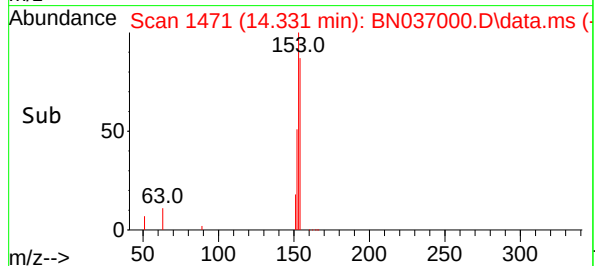
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:154 Resp: 1950
Ion Ratio Lower Upper
154 100
153 117.0 94.2 141.4
152 62.3 49.4 74.0

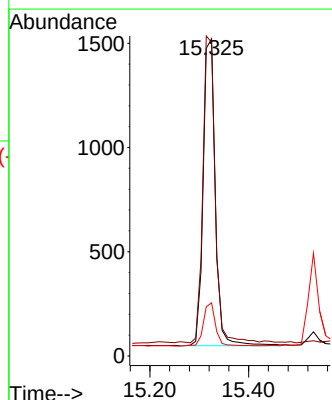
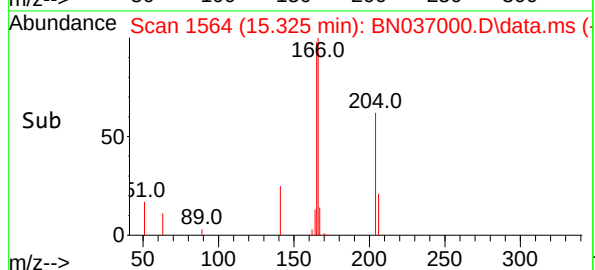
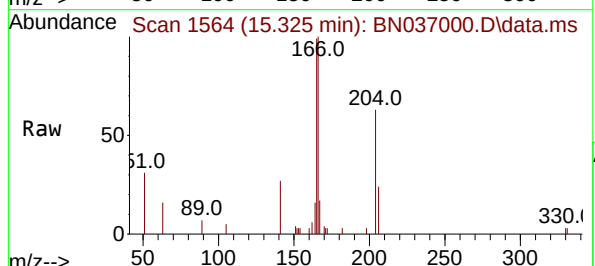
Manual Integrations
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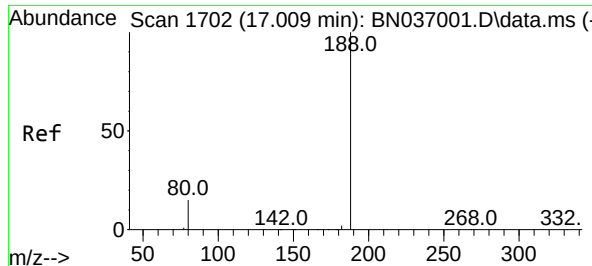
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#18
Fluorene
Concen: 0.189 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.011 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:166 Resp: 2509
Ion Ratio Lower Upper
166 100
165 99.9 80.6 120.8
167 14.1 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:188 Resp: 625

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

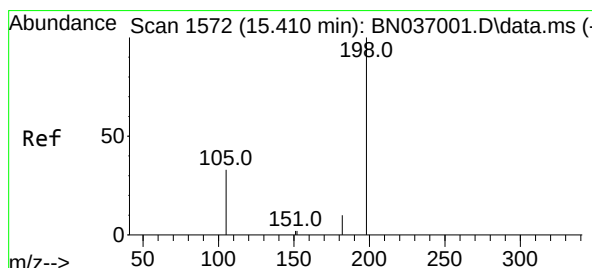
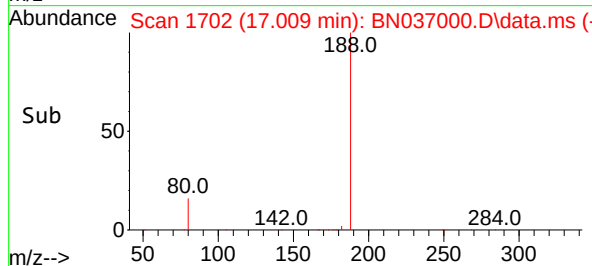
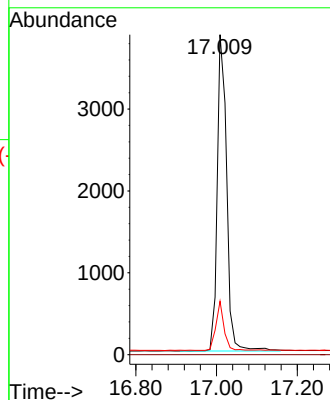
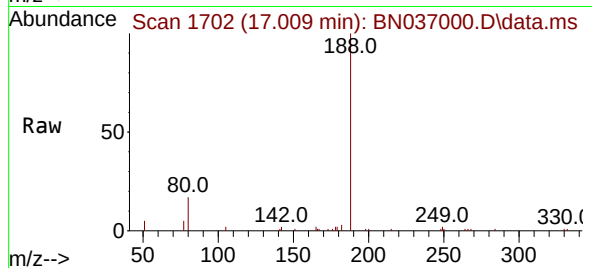
80 16.7 13.4 20.0

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Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.167 ng

RT: 15.410 min Scan# 1572

Delta R.T. 0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

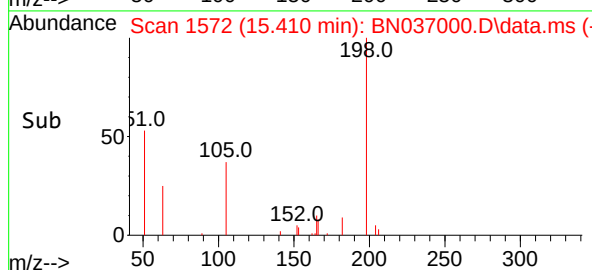
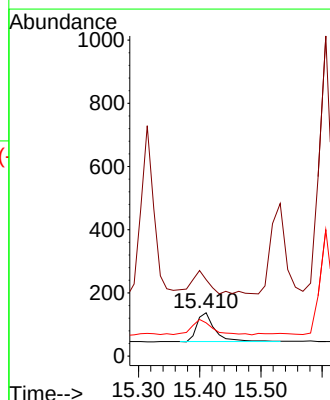
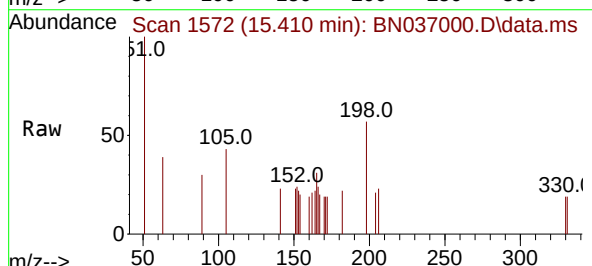
Tgt Ion:198 Resp: 187

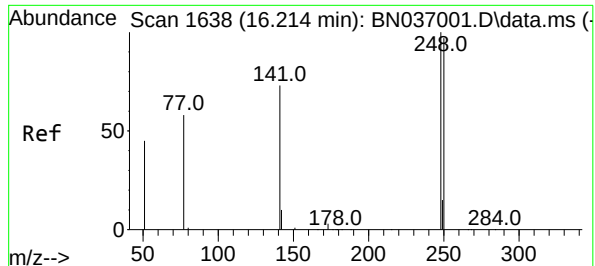
Ion Ratio Lower Upper

198 100

51 176.6 87.8 131.6#

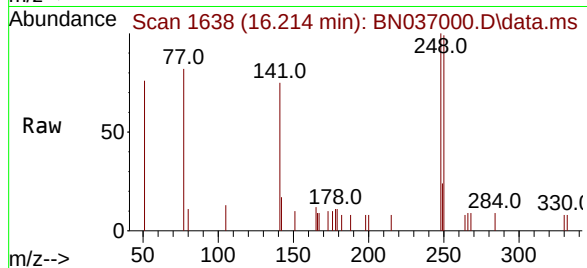
105 76.6 44.2 66.4#





#21
4-Bromophenyl-phenylether
Concen: 0.195 ng
RT: 16.214 min Scan# 1638
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

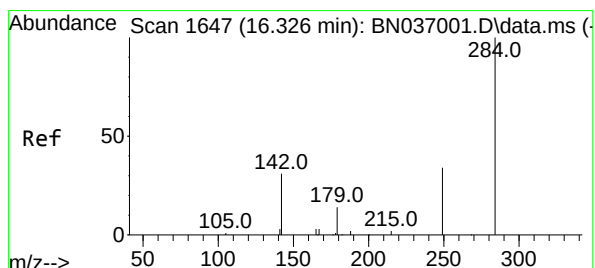
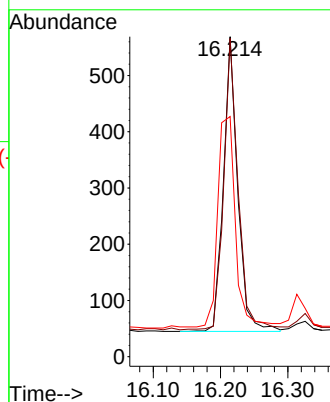
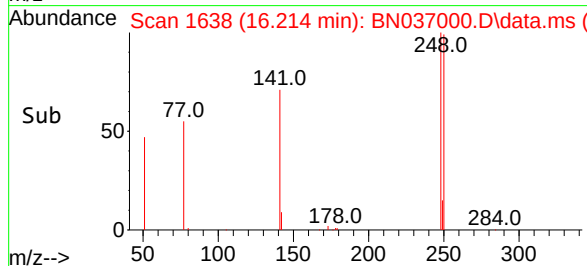
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:248 Resp: 770
Ion Ratio Lower Upper
248 100
250 99.5 78.1 117.1
141 75.0 59.7 89.5

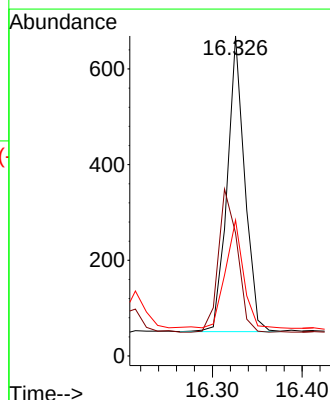
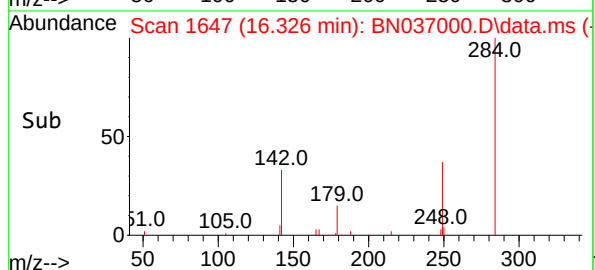
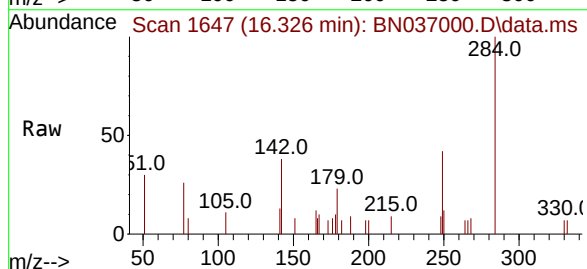
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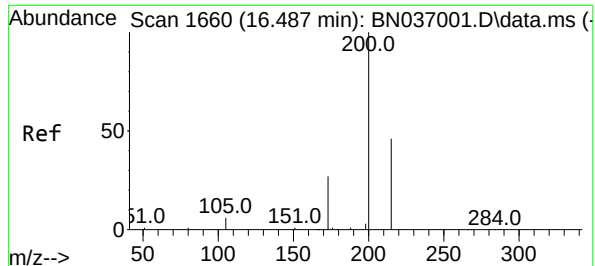
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#22
Hexachlorobenzene
Concen: 0.199 ng
RT: 16.326 min Scan# 1647
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

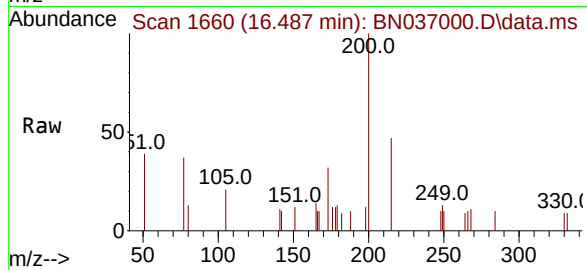
Tgt Ion:284 Resp: 840
Ion Ratio Lower Upper
284 100
142 52.3 41.2 61.8
249 37.9 28.7 43.1





#23
Atrazine
Concen: 0.188 ng
RT: 16.487 min Scan# 1660
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

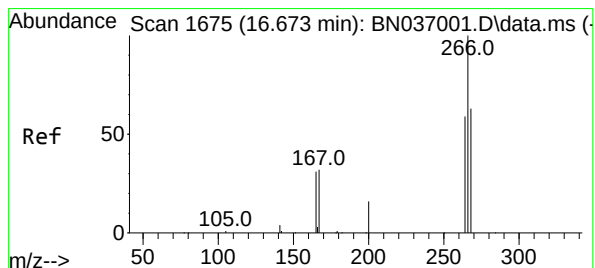
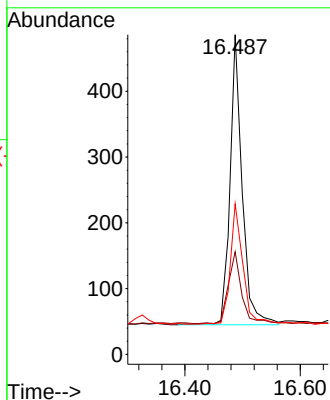
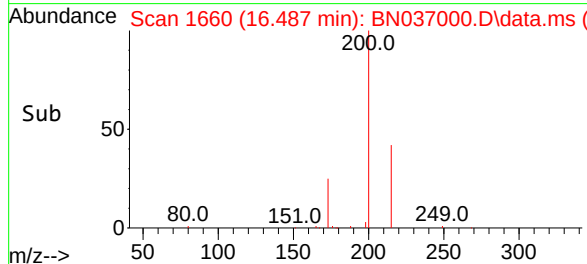
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:200 Resp: 64
Ion Ratio Lower Upper
200 100
173 32.1 25.2 37.8
215 47.1 39.3 58.9

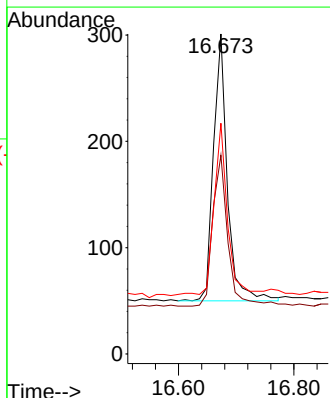
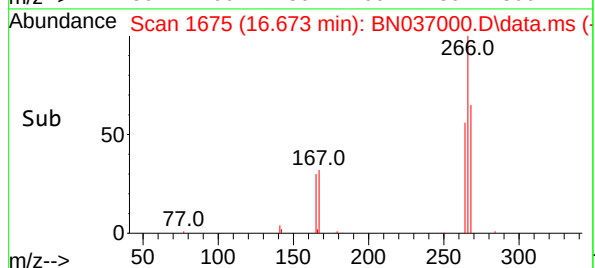
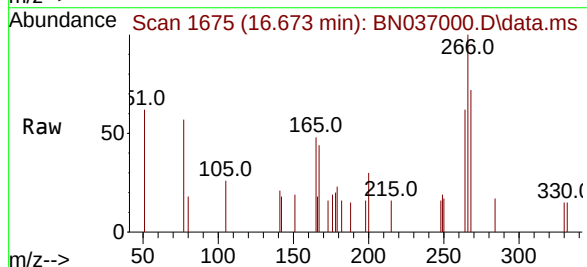
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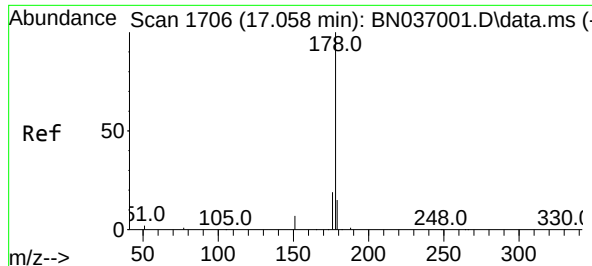
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#24
Pentachlorophenol
Concen: 0.178 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

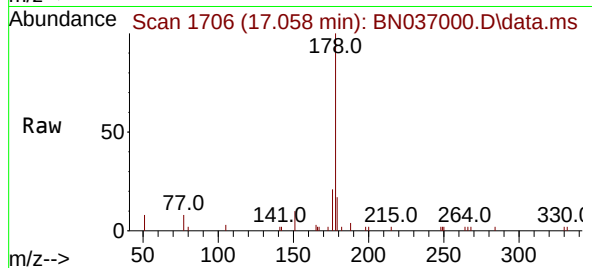
Tgt Ion:266 Resp: 419
Ion Ratio Lower Upper
266 100
264 62.8 47.9 71.9
268 62.8 50.0 75.0





#25
Phenanthrene
Concen: 0.195 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

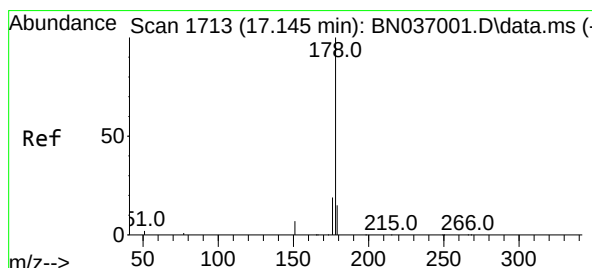
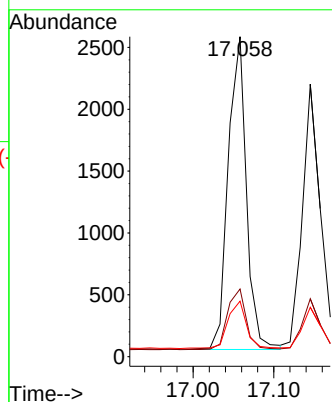
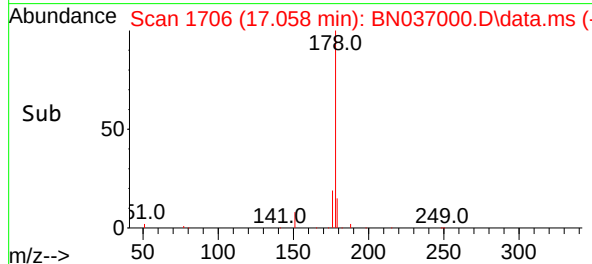
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2



Tgt Ion:178 Resp: 397
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.6 12.2 18.2

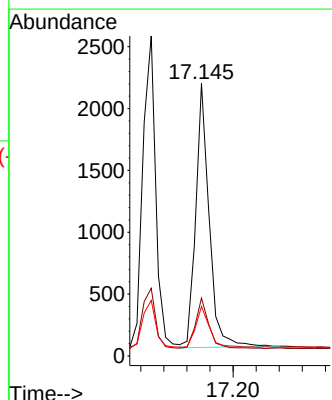
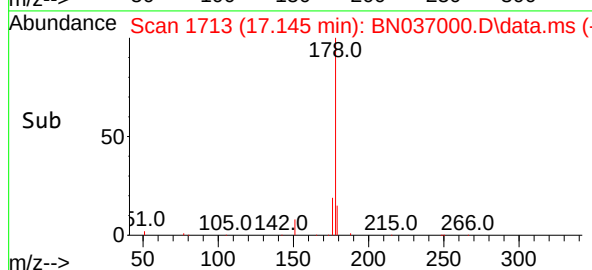
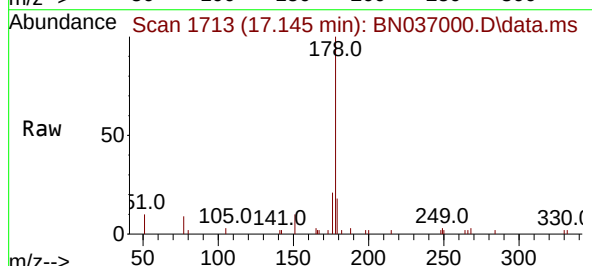
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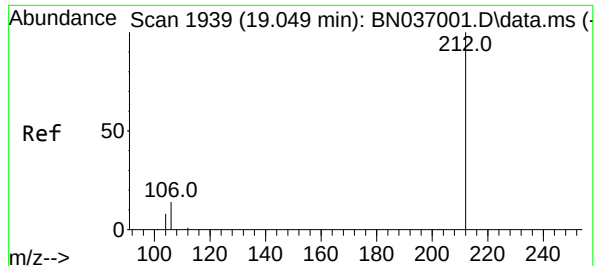
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#26
Anthracene
Concen: 0.186 ng
RT: 17.145 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:178 Resp: 3452
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.9 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.188 ng

RT: 19.049 min Scan# 1939

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Instrument :

BNA_N

ClientSampleId :

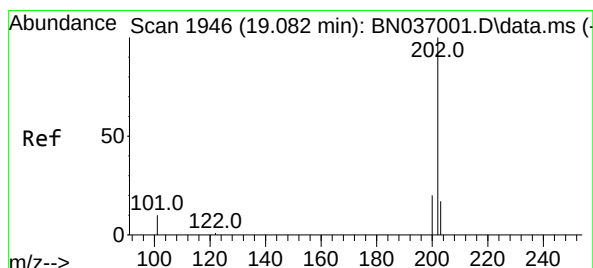
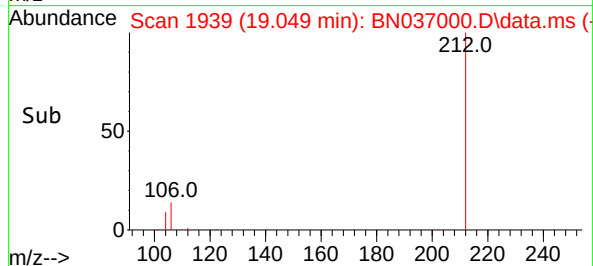
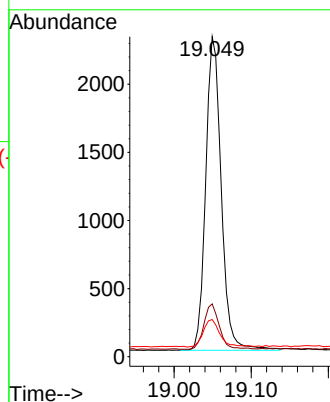
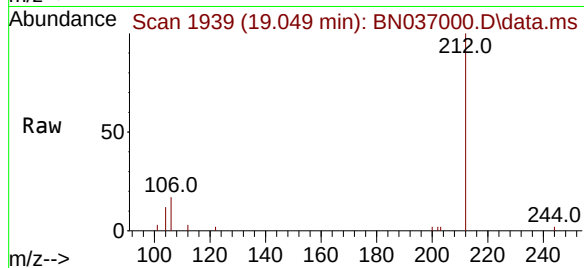
SSTDICC0.2

Tgt Ion:	212	Resp:	323
Ion	Ratio	Lower	Upper
212	100		
106	14.3	11.3	16.9
104	9.5	6.7	10.1

Manual Integrations

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Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#28

Fluoranthene

Concen: 0.184 ng

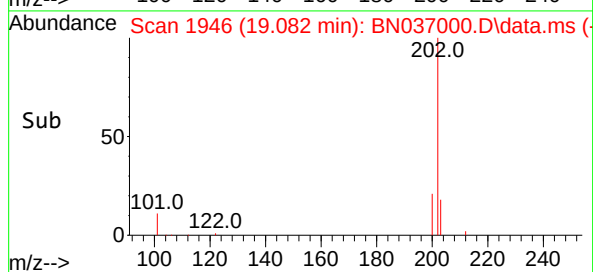
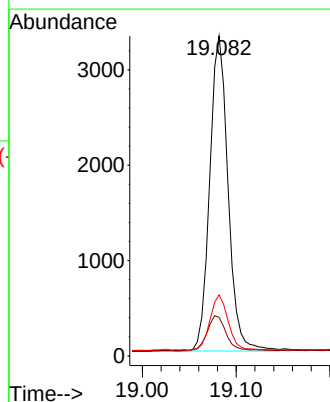
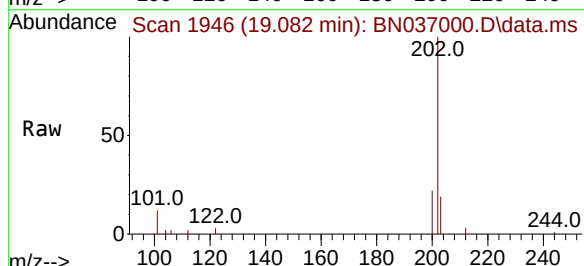
RT: 19.082 min Scan# 1946

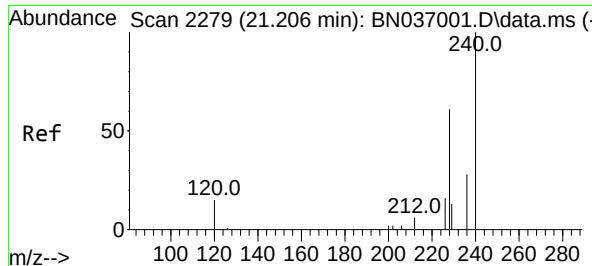
Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Tgt Ion:	202	Resp:	4499
Ion	Ratio	Lower	Upper
202	100		
101	11.5	8.9	13.3
203	17.6	13.8	20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

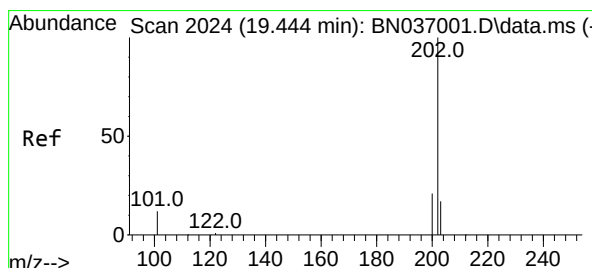
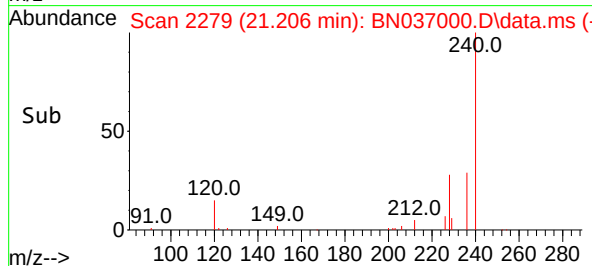
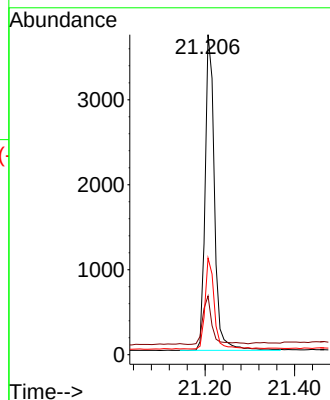
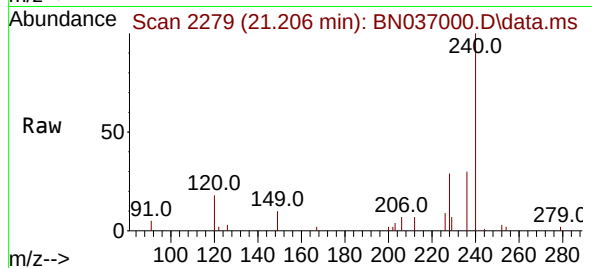
Tgt Ion	Ratio	Lower	Upper
240	100		
120	18.3	15.1	22.7
236	30.2	24.0	36.0

Manual Integrations

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Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#30

Pyrene

Concen: 0.200 ng

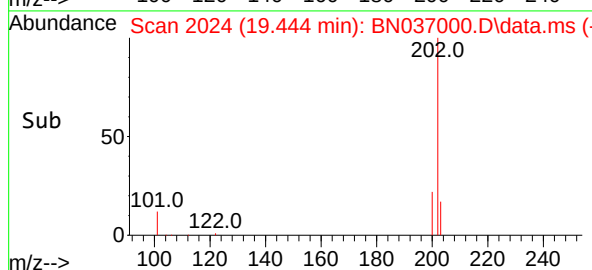
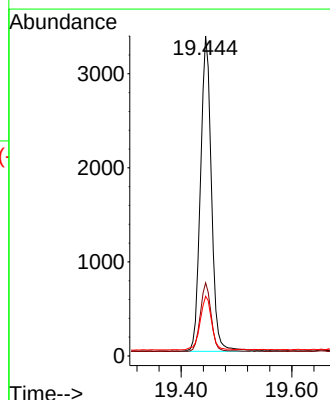
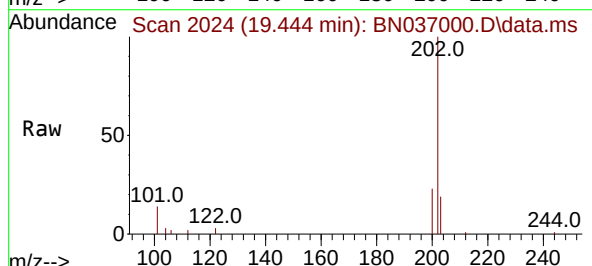
RT: 19.444 min Scan# 2024

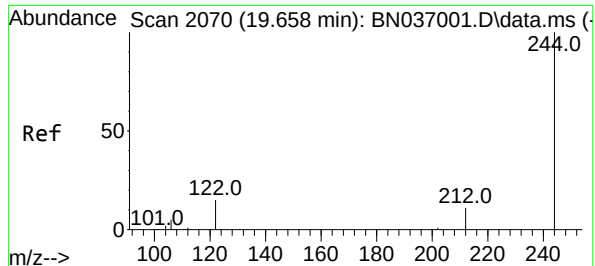
Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.7	14.2	21.4





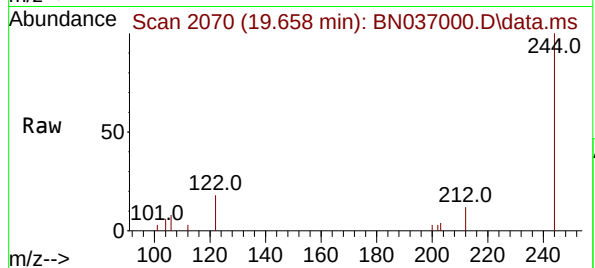
#31
Terphenyl-d14
Concen: 0.197 ng
RT: 19.658 min Scan# 2070
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

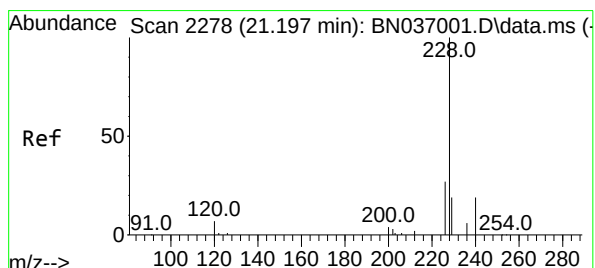
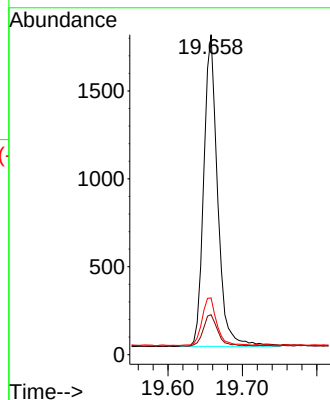
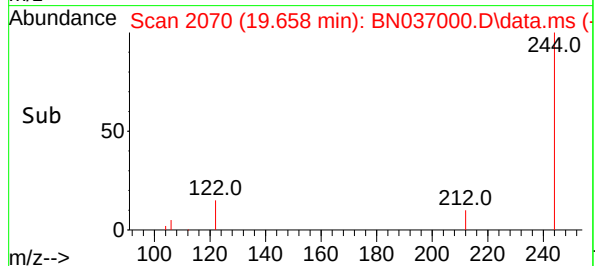


Tgt Ion:244 Resp: 228
Ion Ratio Lower Upper
244 100
212 12.5 9.7 14.5
122 17.7 13.4 20.0

Manual Integrations

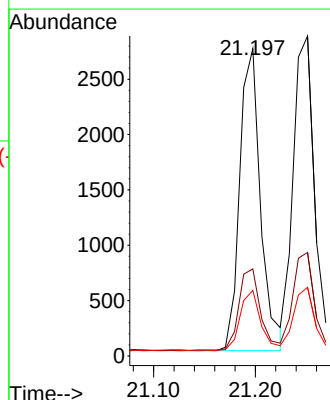
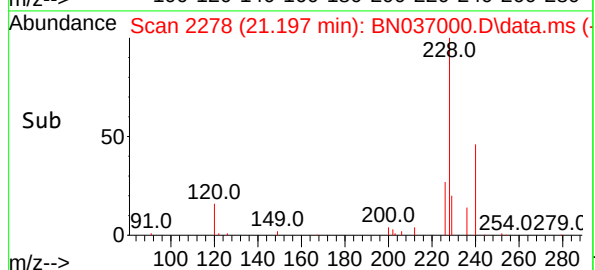
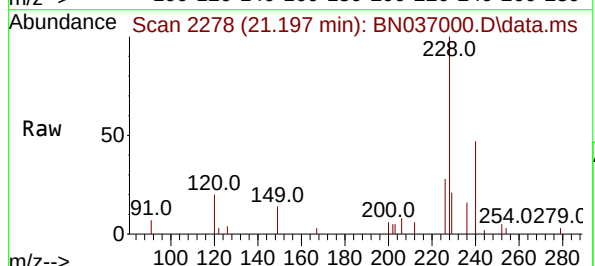
APPROVED

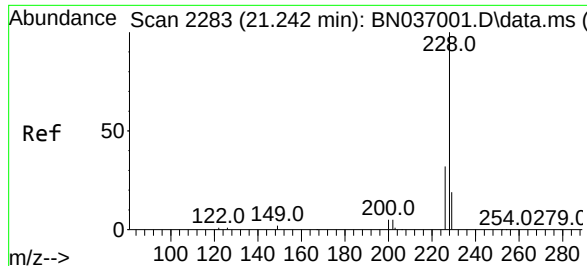
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#32
Benzo(a)anthracene
Concen: 0.190 ng
RT: 21.197 min Scan# 2278
Delta R.T. -0.000 min
Lab File: BN037000.D
Acq: 13 May 2025 18:17

Tgt Ion:228 Resp: 3882
Ion Ratio Lower Upper
228 100
226 28.3 22.2 33.4
229 21.4 16.0 24.0





#33

Chrysene

Concen: 0.196 ng

RT: 21.251 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion:228 Resp: 4220

Ion Ratio Lower Upper

228 100

226 32.3 26.3 39.5

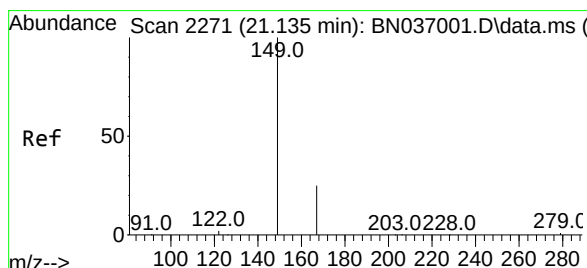
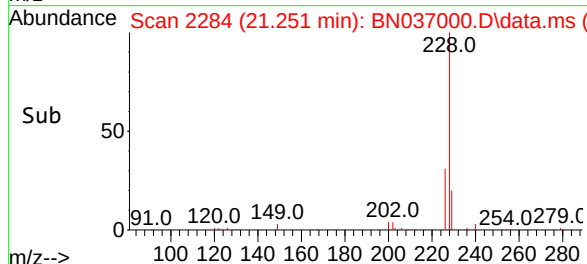
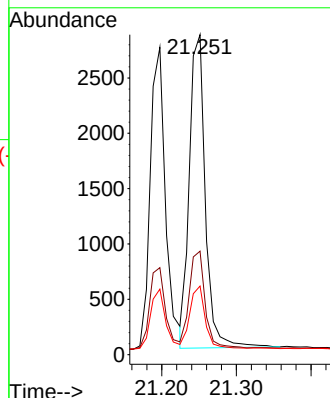
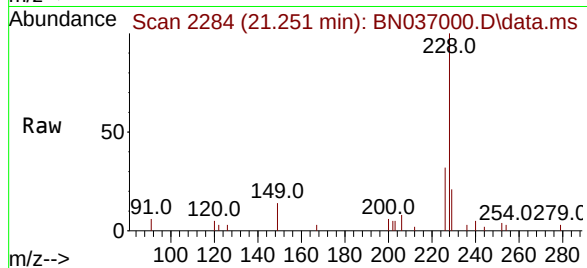
229 21.4 16.2 24.2

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.198 ng

RT: 21.135 min Scan# 2271

Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

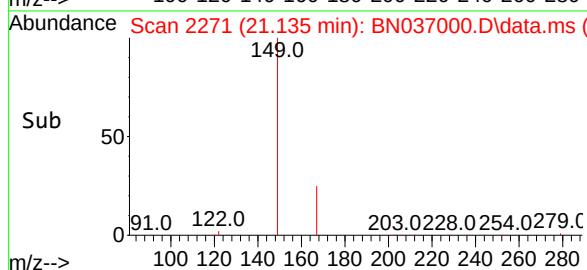
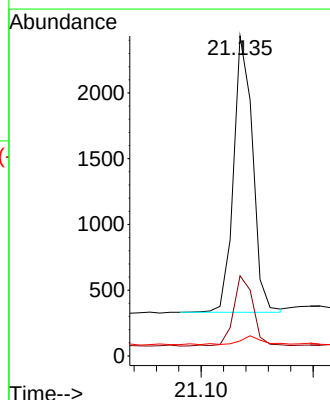
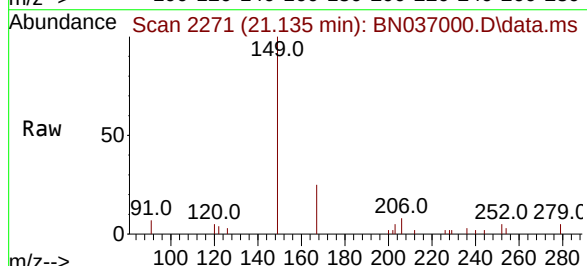
Tgt Ion:149 Resp: 2490

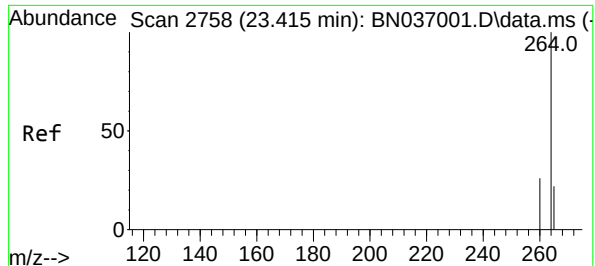
Ion Ratio Lower Upper

149 100

167 26.4 20.6 30.8

279 3.8 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.415 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037000.D

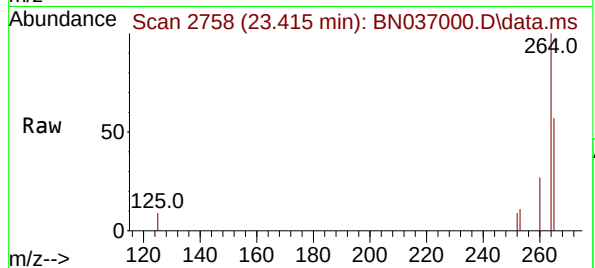
Acq: 13 May 2025 18:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:264 Resp: 548

Ion Ratio Lower Upper

264 100

260 26.6 21.9 32.9

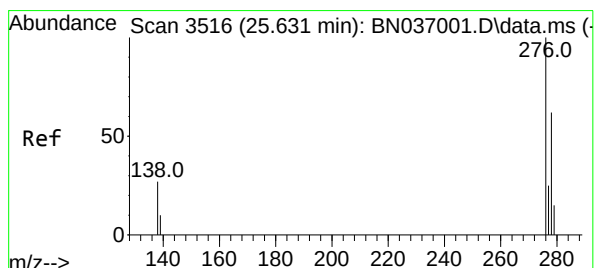
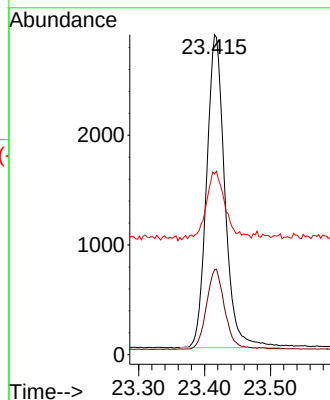
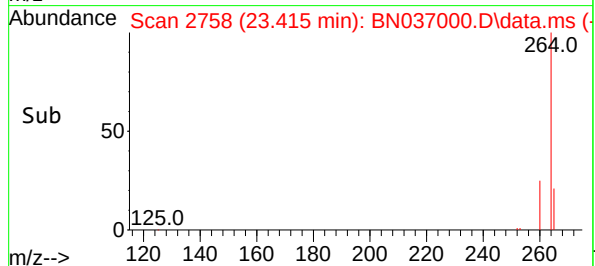
265 56.5 51.6 77.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.198 ng

RT: 25.628 min Scan# 3515

Delta R.T. -0.003 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

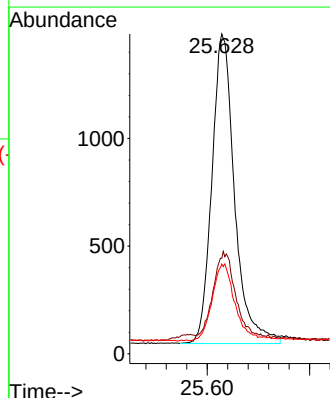
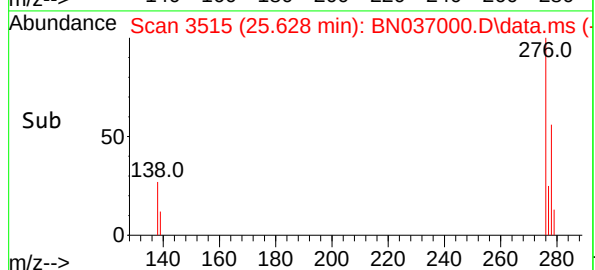
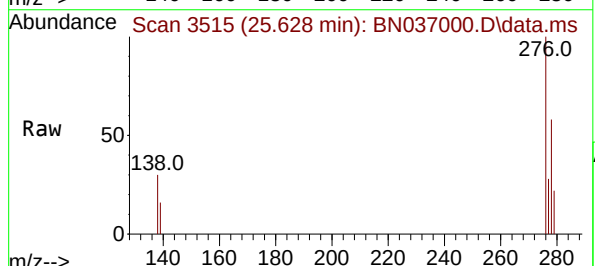
Tgt Ion:276 Resp: 4426

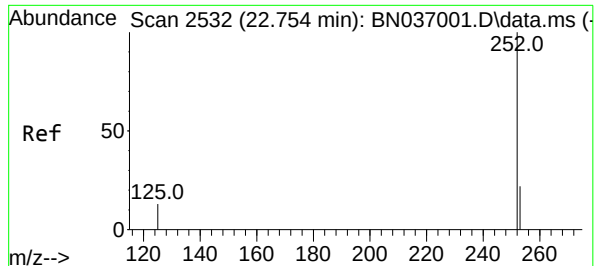
Ion Ratio Lower Upper

276 100

138 27.9 22.7 34.1

277 24.6 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.189 ng m

RT: 22.757 min Scan# 2533

Delta R.T. 0.003 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

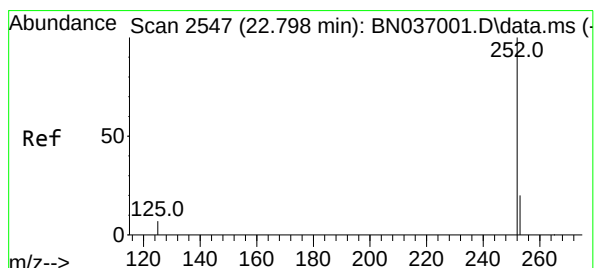
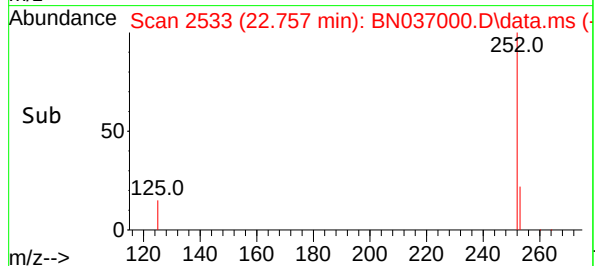
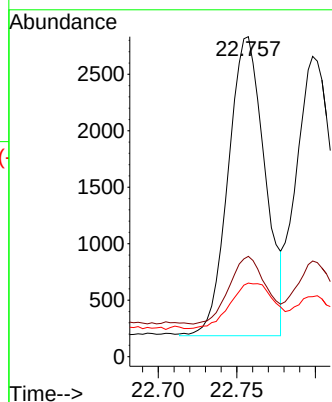
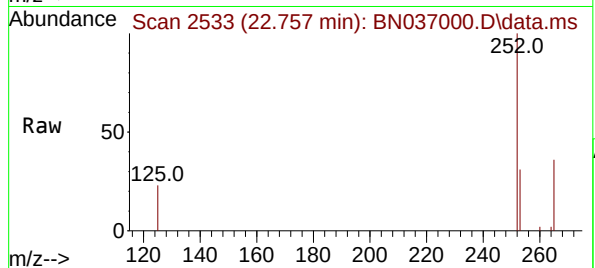
Tgt Ion:252	Resp:	4300
Ion Ratio	Lower	Upper
252	100	
253	31.3	21.8 32.6
125	23.0	14.6 21.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#38

Benzo(k)fluoranthene

Concen: 0.188 ng

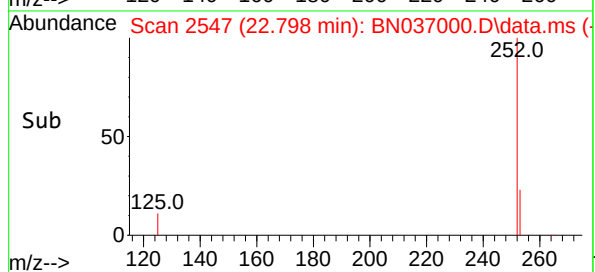
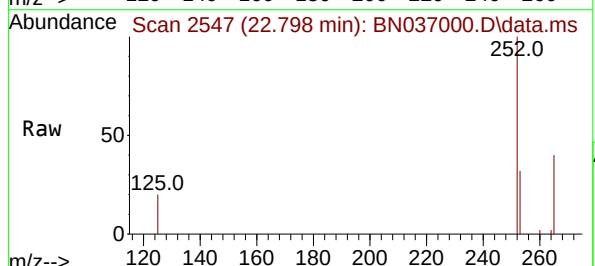
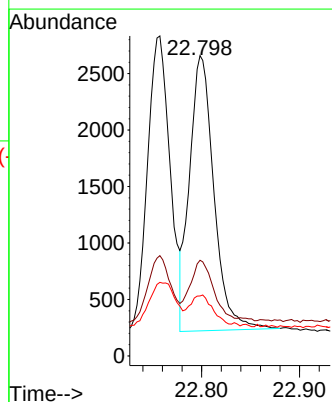
RT: 22.798 min Scan# 2547

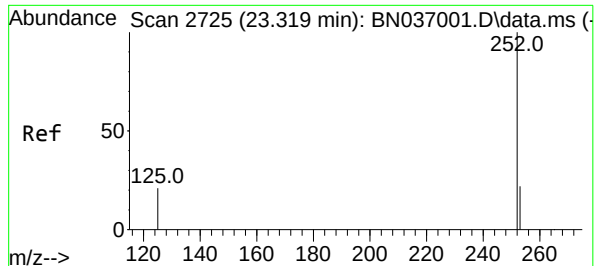
Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Tgt Ion:252	Resp:	4219
Ion Ratio	Lower	Upper
252	100	
253	31.9	21.4 32.2
125	20.0	13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.191 ng

RT: 23.322 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

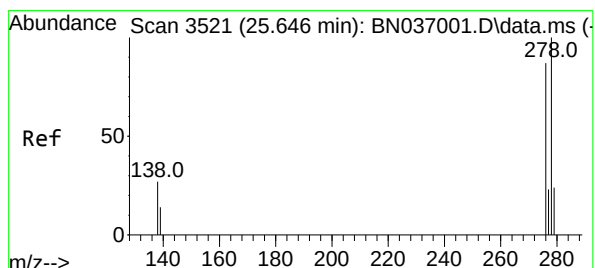
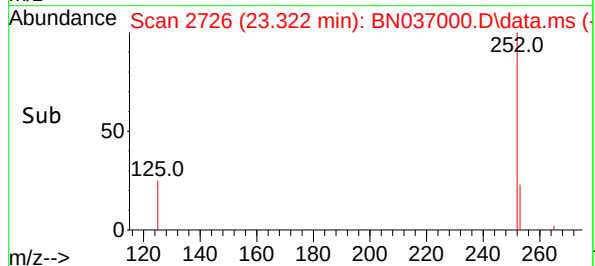
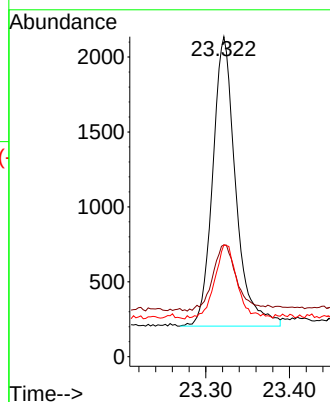
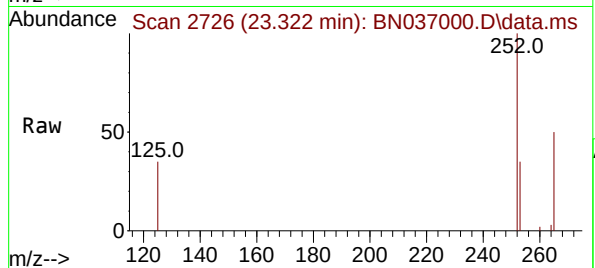
Tgt Ion:	252	Resp:	368
Ion Ratio	Lower	Upper	
252	100		
253	34.9	23.8	35.6
125	35.0	21.8	32.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.194 ng

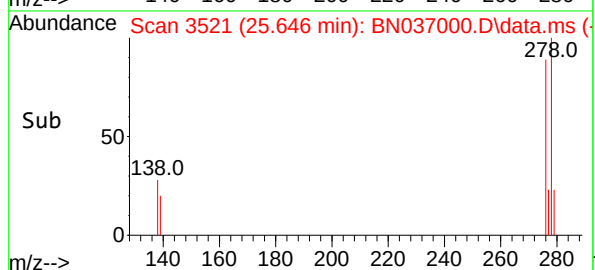
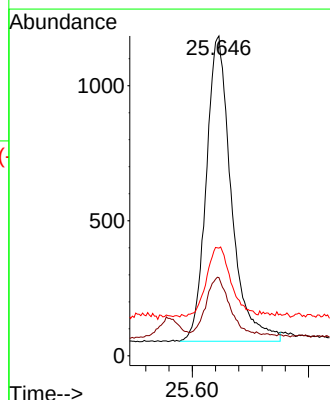
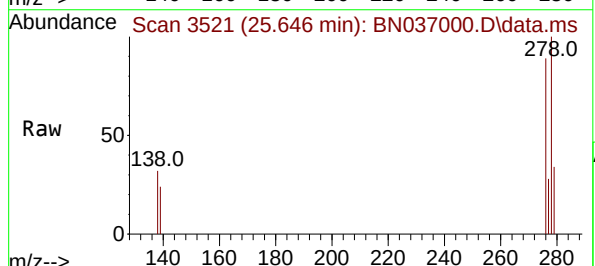
RT: 25.646 min Scan# 3521

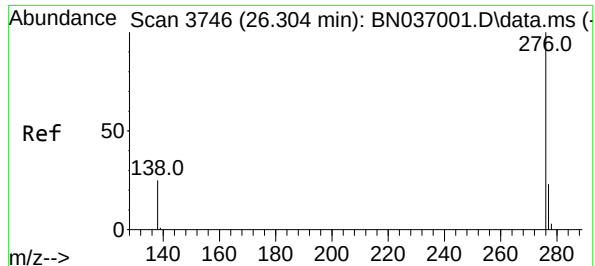
Delta R.T. -0.000 min

Lab File: BN037000.D

Acq: 13 May 2025 18:17

Tgt Ion:	278	Resp:	3380
Ion Ratio	Lower	Upper	
278	100		
139	24.5	17.4	26.0
279	33.7	24.6	37.0





#41

Benzo(g,h,i)perylene

Concen: 0.204 ng

RT: 26.301 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037000.D

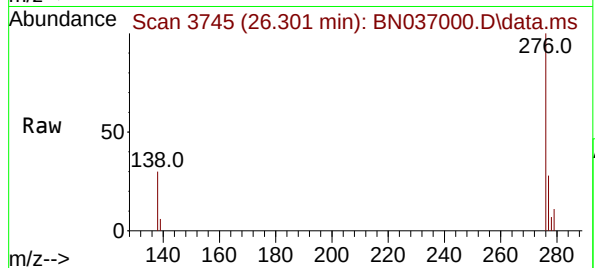
Acq: 13 May 2025 18:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



Tgt Ion:276 Resp: 386

Ion Ratio Lower Upper

276 100

277 27.6 20.2 30.4

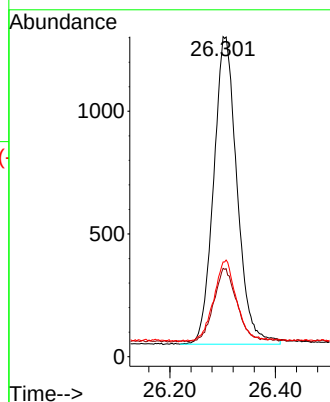
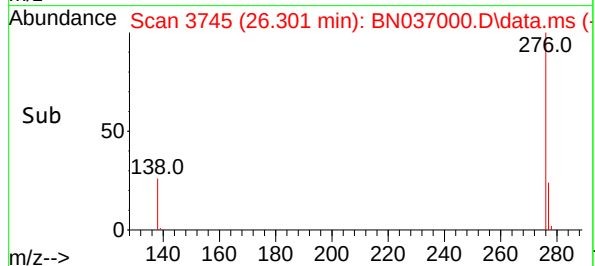
138 29.6 22.0 33.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037001.D
 Acq On : 13 May 2025 18:53
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: May 14 11:00:35 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 10:57:36 2025
 Response via : Initial Calibration

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

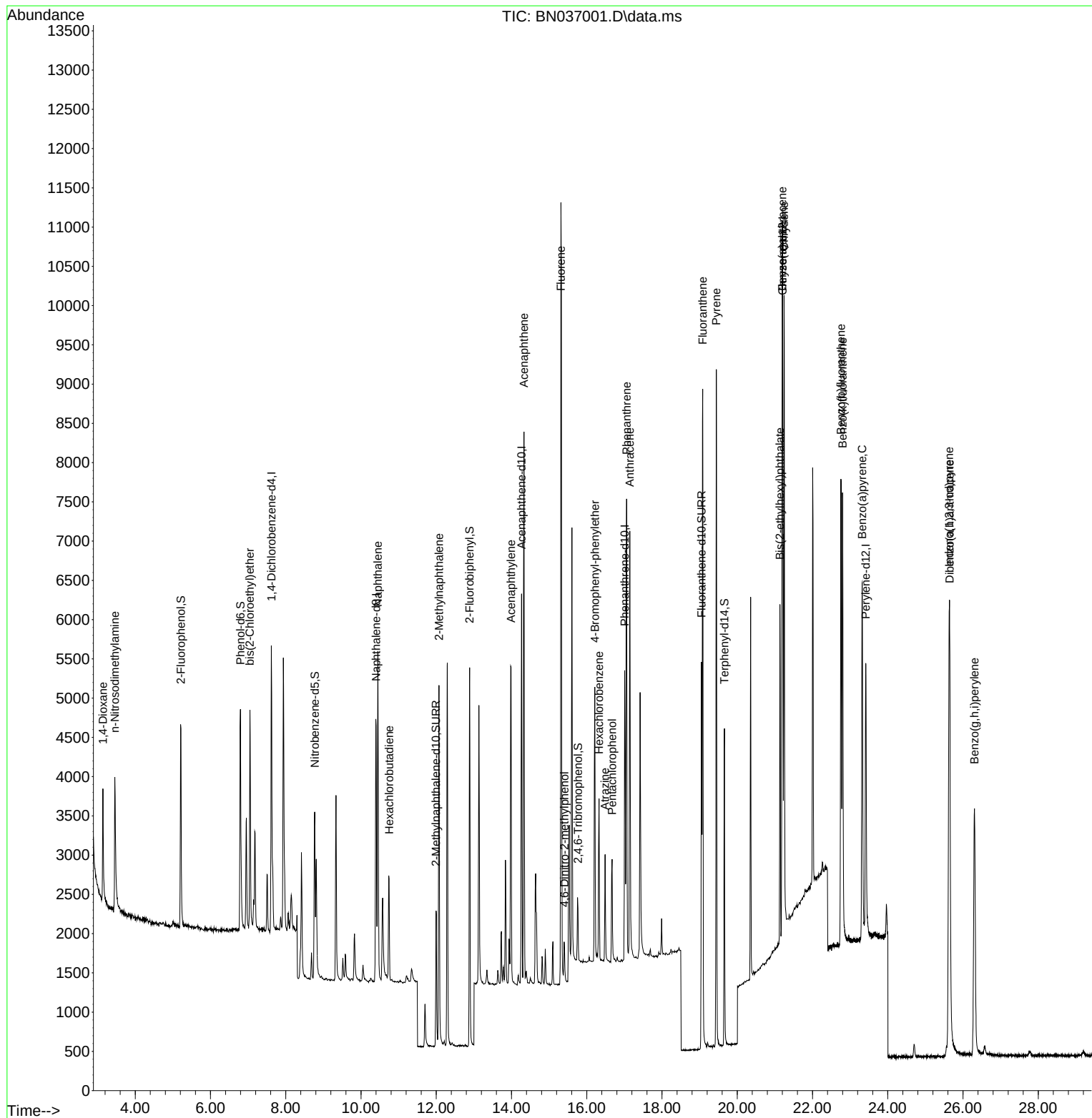
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	1733	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	4592	0.400	ng	0.00
13) Acenaphthene-d10	14.267	164	2562	0.400	ng	0.00
19) Phenanthrene-d10	17.009	188	5005	0.400	ng	0.00
29) Chrysene-d12	21.206	240	4458	0.400	ng	0.00
35) Perylene-d12	23.415	264	4521	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	1966	0.433	ng	0.00
5) Phenol-d6	6.795	99	2400	0.422	ng	0.00
8) Nitrobenzene-d5	8.771	82	1828	0.366	ng	0.00
11) 2-Methylnaphthalene-d10	11.996	152	2535	0.392	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	455	0.404	ng	0.00
15) 2-Fluorobiphenyl	12.888	172	4870	0.415	ng	0.00
27) Fluoranthene-d10	19.049	212	5393	0.393	ng	0.00
31) Terphenyl-d14	19.658	244	3883	0.407	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.140	88	888	0.418	ng	100
3) n-Nitrosodimethylamine	3.458	42	1699	0.372	ng	99
6) bis(2-Chloroethyl)ether	7.048	93	1999	0.382	ng	100
9) Naphthalene	10.447	128	5251	0.387	ng	100
10) Hexachlorobutadiene	10.746	225	1119	0.393	ng	# 100
12) 2-Methylnaphthalene	12.072	142	3380	0.387	ng	100
16) Acenaphthylene	13.989	152	4852	0.389	ng	100
17) Acenaphthene	14.331	154	3184	0.391	ng	100
18) Fluorene	15.314	166	4190	0.392	ng	100
20) 4,6-Dinitro-2-methylph...	15.410	198	367	0.377	ng	100
21) 4-Bromophenyl-phenylether	16.214	248	1252	0.396	ng	100
22) Hexachlorobenzene	16.326	284	1408	0.416	ng	100
23) Atrazine	16.487	200	1056	0.383	ng	100
24) Pentachlorophenol	16.673	266	706	0.376	ng	100
25) Phenanthrene	17.058	178	6468	0.395	ng	100
26) Anthracene	17.145	178	5835	0.392	ng	100
28) Fluoranthene	19.082	202	7510	0.384	ng	100
30) Pyrene	19.444	202	7697	0.404	ng	100
32) Benzo(a)anthracene	21.197	228	6620	0.394	ng	100
33) Chrysene	21.242	228	7204	0.406	ng	100
34) Bis(2-ethylhexyl)phtha...	21.135	149	4039	0.390	ng	100
36) Indeno(1,2,3-cd)pyrene	25.631	276	7438	0.403	ng	100
37) Benzo(b)fluoranthene	22.754	252	7242	0.386	ng	100
38) Benzo(k)fluoranthene	22.798	252	7424	0.401	ng	100
39) Benzo(a)pyrene	23.319	252	6245	0.393	ng	100
40) Dibenzo(a,h)anthracene	25.646	278	5753	0.400	ng	100
41) Benzo(g,h,i)perylene	26.304	276	6438	0.412	ng	100

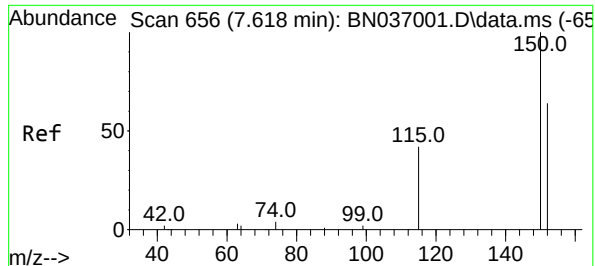
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037001.D
 Acq On : 13 May 2025 18:53
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

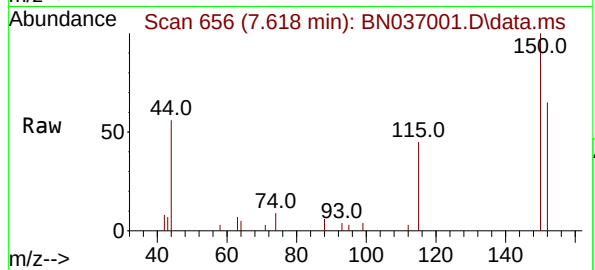
Quant Time: May 14 11:00:35 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 10:57:36 2025
 Response via : Initial Calibration



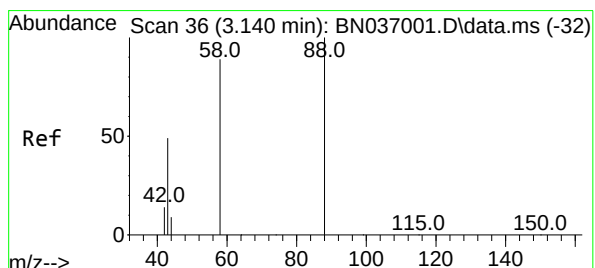
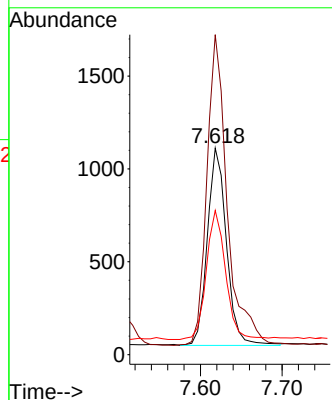
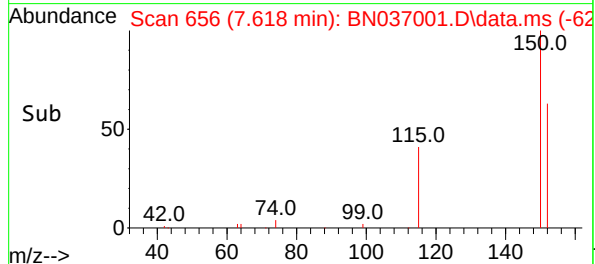


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

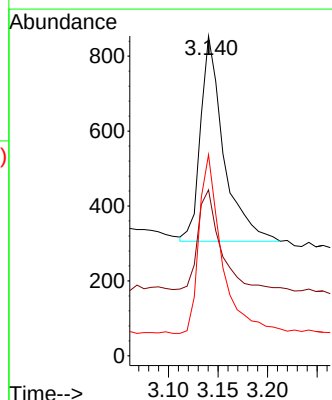
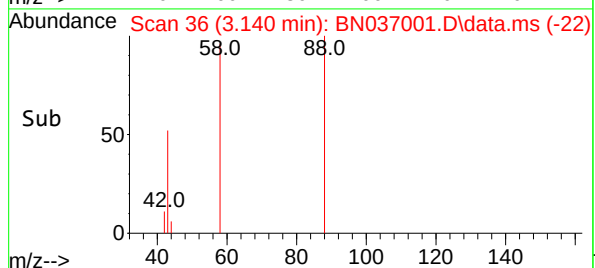
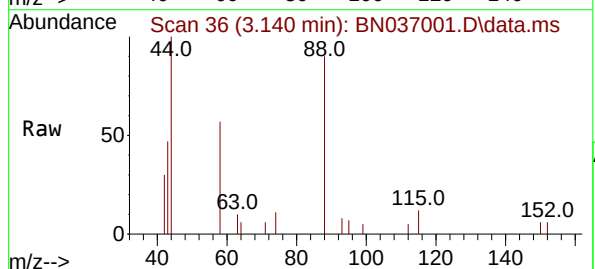


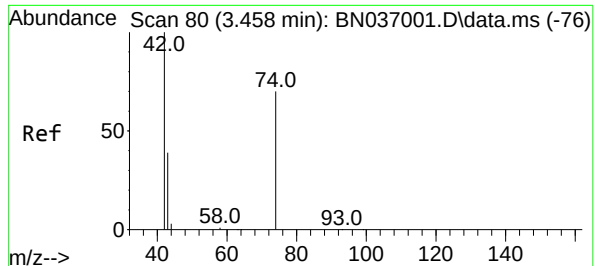
Tgt Ion:152 Resp: 1733
Ion Ratio Lower Upper
152 100
150 154.9 123.9 185.9
115 69.8 55.8 83.8



#2
1,4-Dioxane
Concen: 0.418 ng
RT: 3.140 min Scan# 36
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion: 88 Resp: 888
Ion Ratio Lower Upper
88 100
43 46.7 37.4 56.0
58 86.0 68.8 103.2

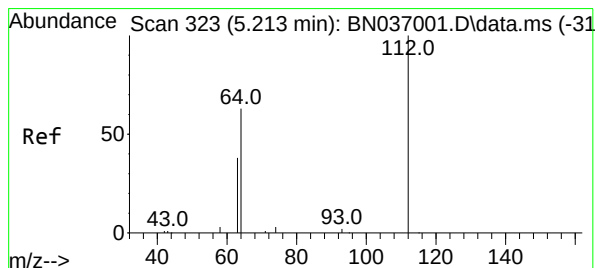
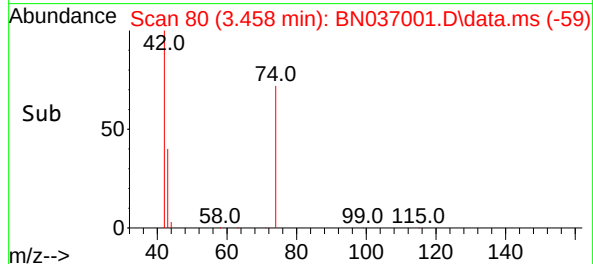
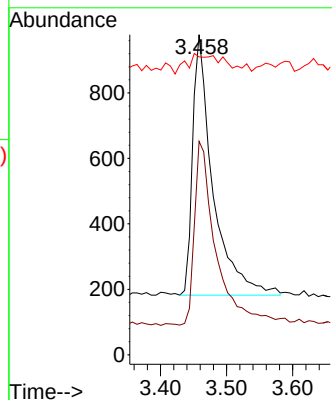
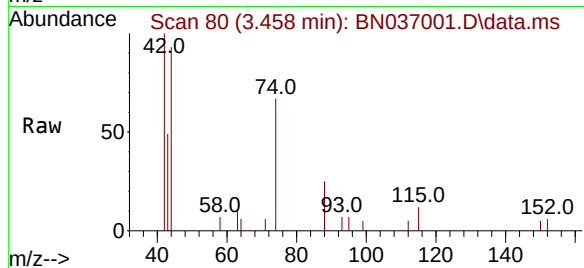




#3
n-Nitrosodimethylamine
Concen: 0.372 ng
RT: 3.458 min Scan# 80
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

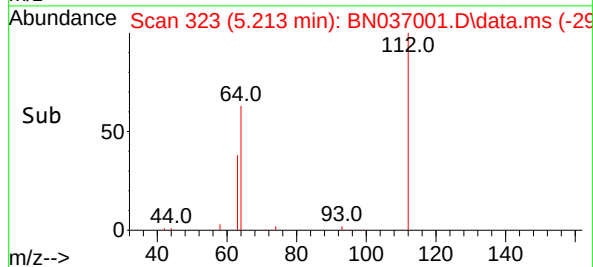
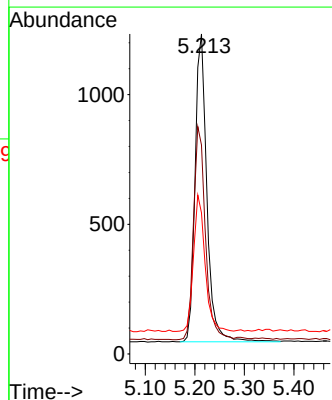
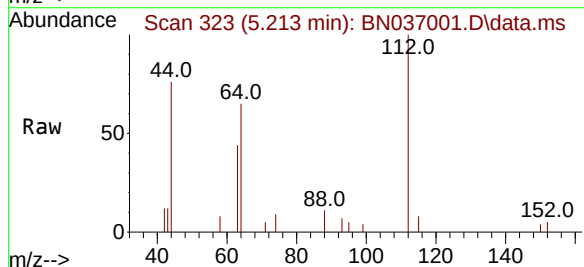
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

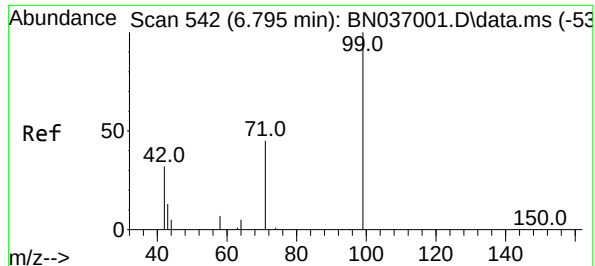
Tgt Ion: 42 Resp: 1699
Ion Ratio Lower Upper
42 100
74 74.2 59.8 89.6
44 14.8 11.9 17.9



#4
2-Fluorophenol
Concen: 0.433 ng
RT: 5.213 min Scan# 323
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion: 112 Resp: 1966
Ion Ratio Lower Upper
112 100
64 69.6 55.7 83.5
63 43.2 34.6 51.8

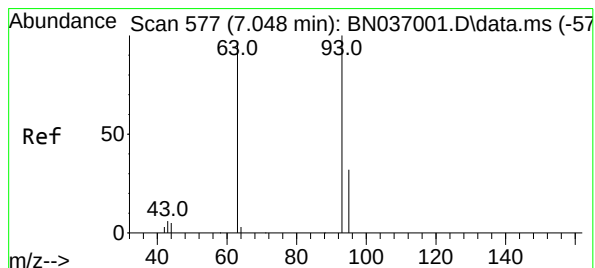
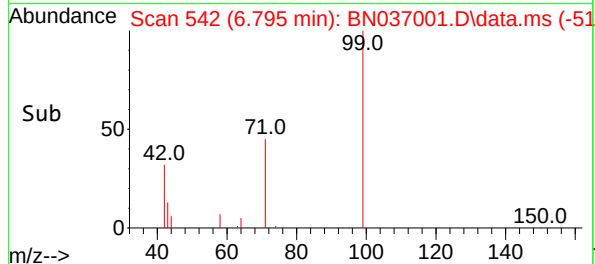
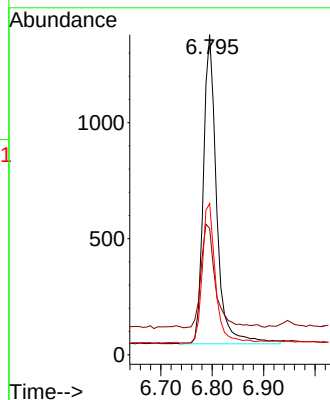
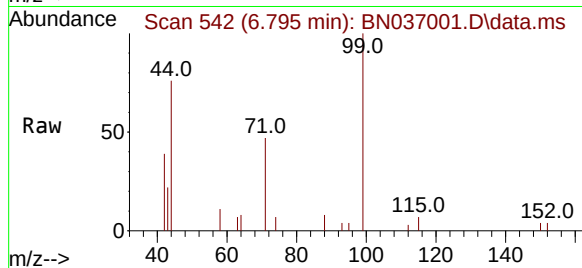




#5
Phenol-d6
Concen: 0.422 ng
RT: 6.795 min Scan# 542
Delta R.T. -0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

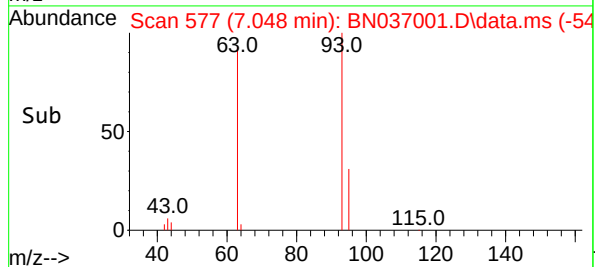
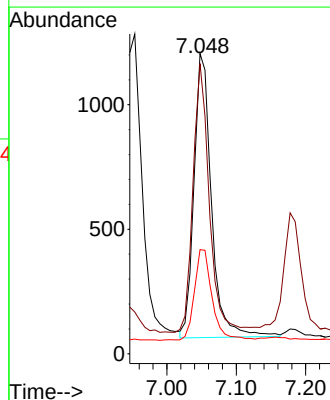
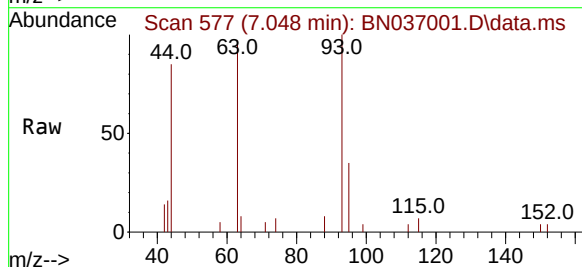
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

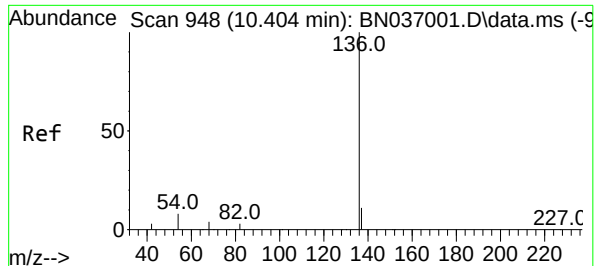
Tgt Ion: 99 Resp: 2400
Ion Ratio Lower Upper
99 100
42 36.6 29.3 43.9
71 44.6 35.7 53.5



#6
bis(2-Chloroethyl)ether
Concen: 0.382 ng
RT: 7.048 min Scan# 577
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion: 93 Resp: 1999
Ion Ratio Lower Upper
93 100
63 87.6 70.1 105.1
95 32.7 26.2 39.2

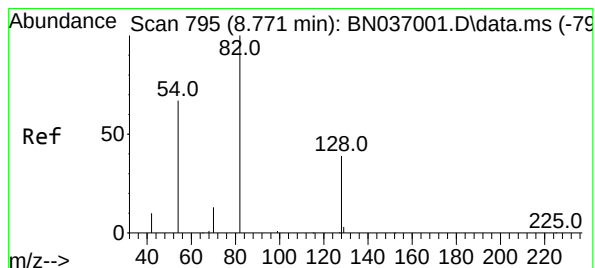
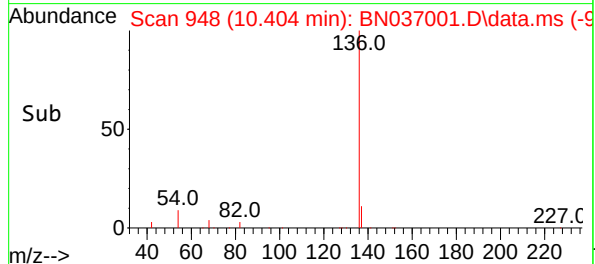
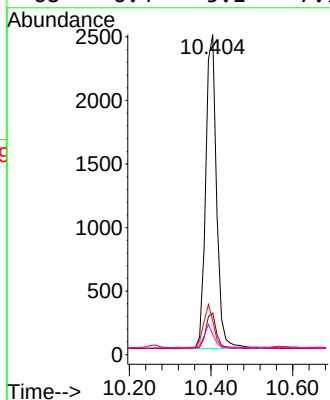
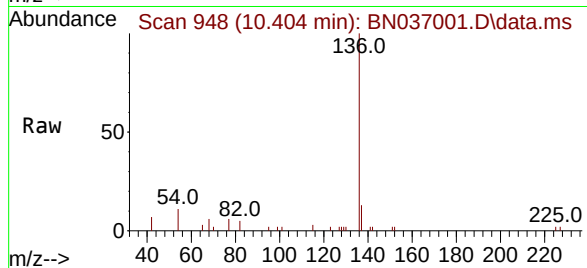




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

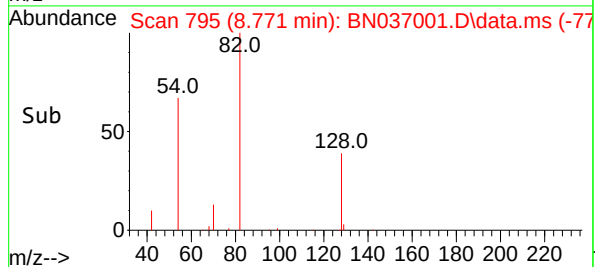
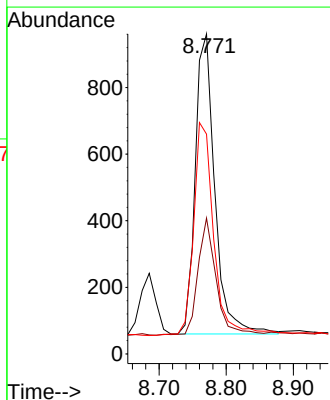
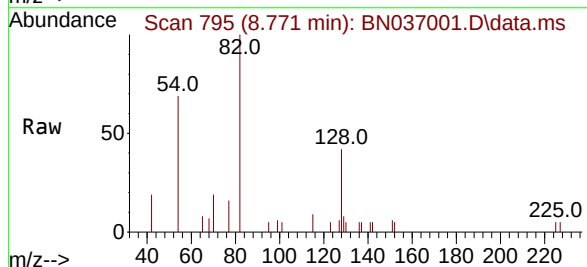
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

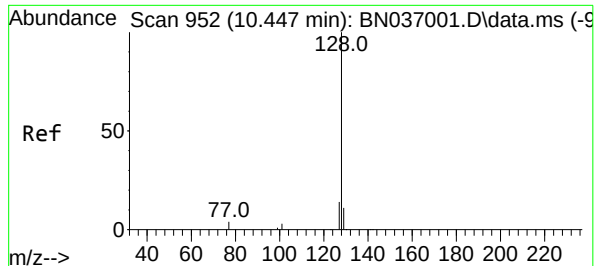
Tgt Ion:	136	Resp:	4592
Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.4	15.6
54	10.6	8.5	12.7
68	6.4	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.366 ng
RT: 8.771 min Scan# 795
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:	82	Resp:	1828
Ion	Ratio	Lower	Upper
82	100		
128	42.5	34.0	51.0
54	68.7	55.0	82.4





#9

Naphthalene

Concen: 0.387 ng

RT: 10.447 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

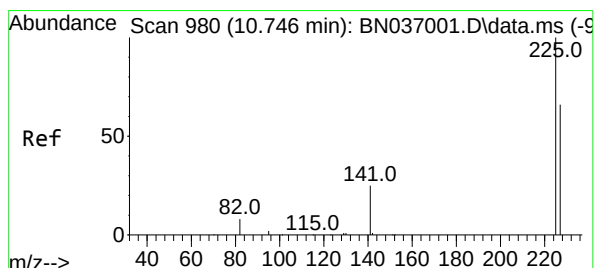
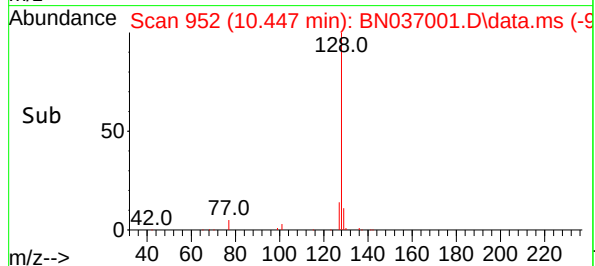
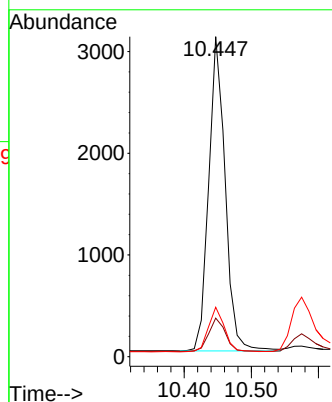
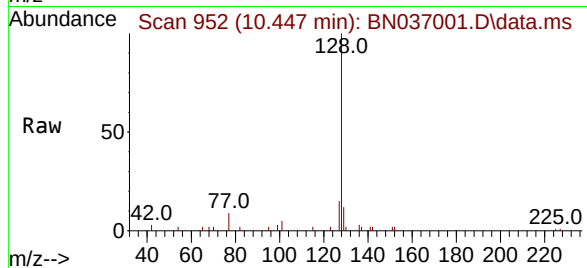
Tgt Ion:128 Resp: 5251

Ion Ratio Lower Upper

128 100

129 12.1 9.7 14.5

127 15.5 12.4 18.6



#10

Hexachlorobutadiene

Concen: 0.393 ng

RT: 10.746 min Scan# 980

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

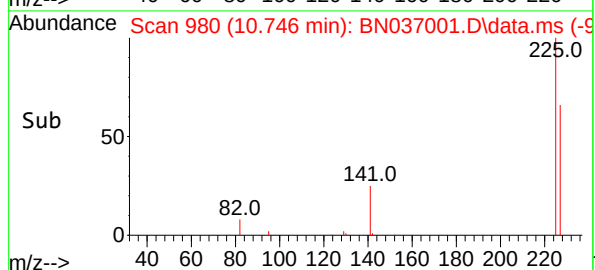
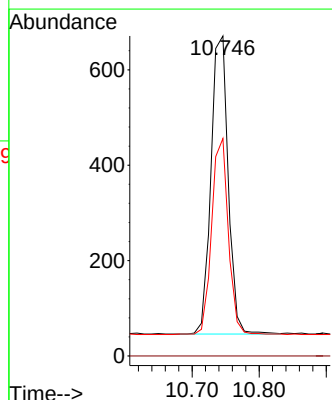
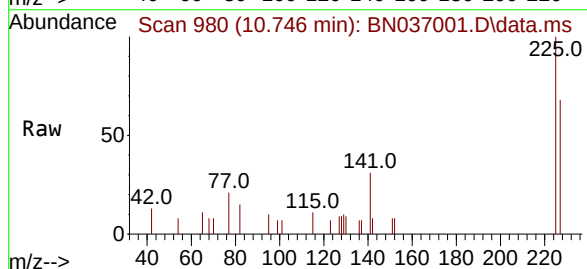
Tgt Ion:225 Resp: 1119

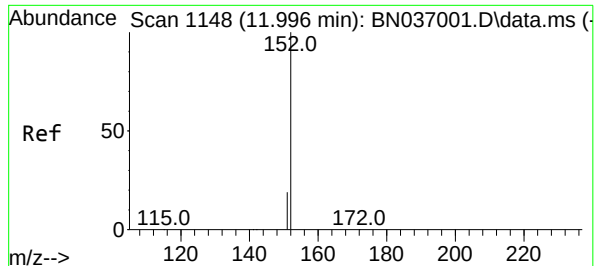
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.6 50.9 76.3

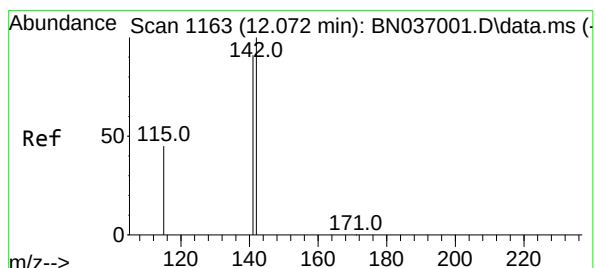
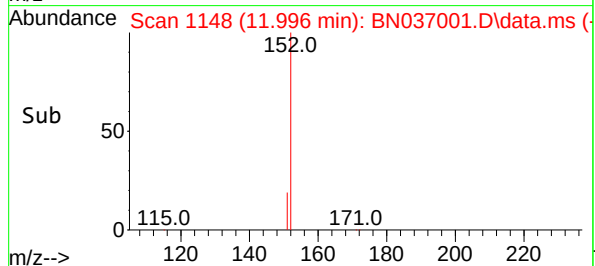
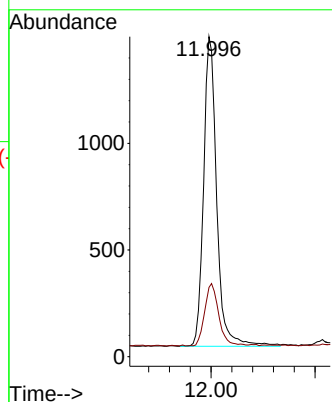
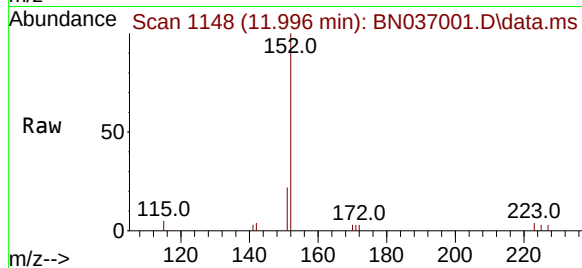




#11
2-Methylnaphthalene-d10
Concen: 0.392 ng
RT: 11.996 min Scan# 1148
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

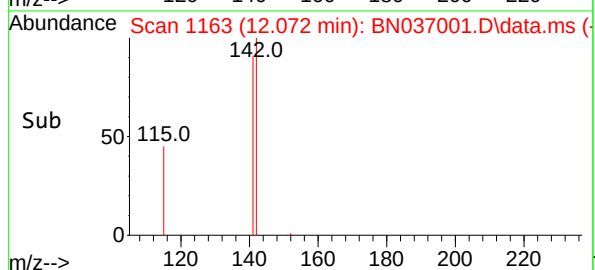
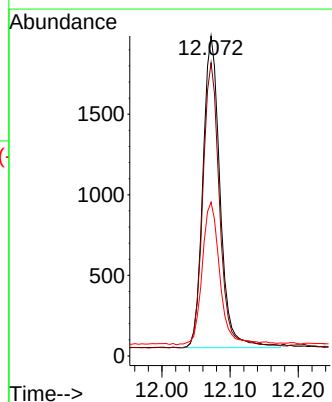
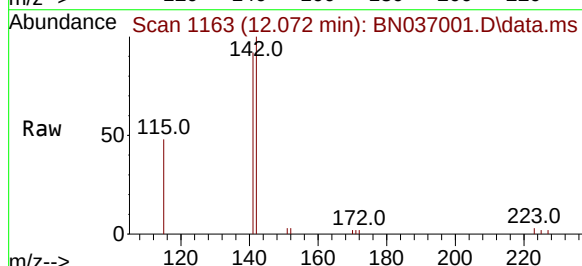
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

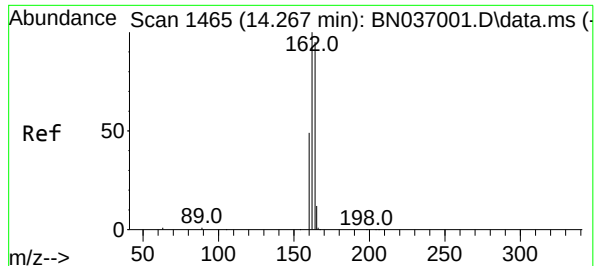
Tgt Ion:152 Resp: 2535
Ion Ratio Lower Upper
152 100
151 21.9 17.5 26.3



#12
2-Methylnaphthalene
Concen: 0.387 ng
RT: 12.072 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:142 Resp: 3380
Ion Ratio Lower Upper
142 100
141 91.6 73.3 109.9
115 48.0 38.4 57.6

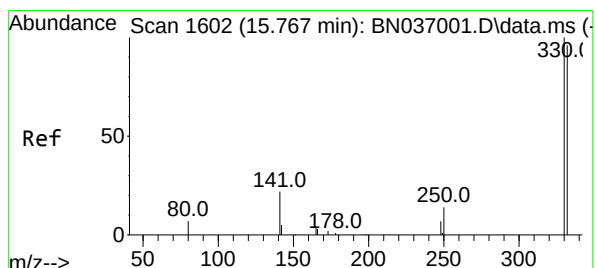
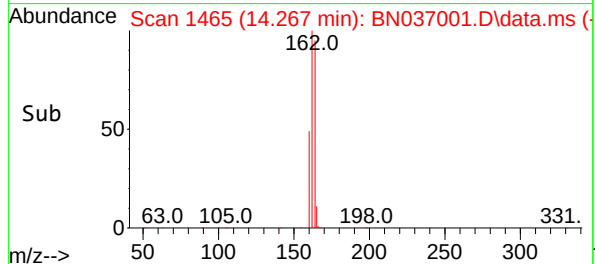
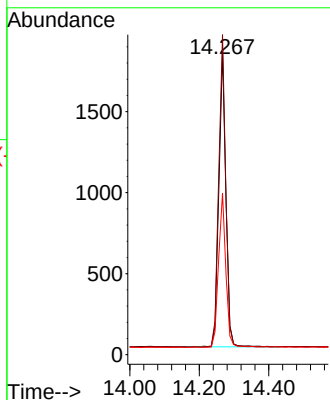
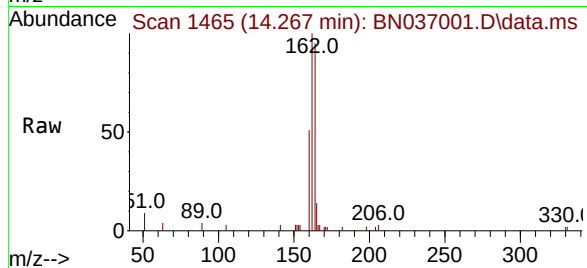




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.267 min Scan# 1465
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

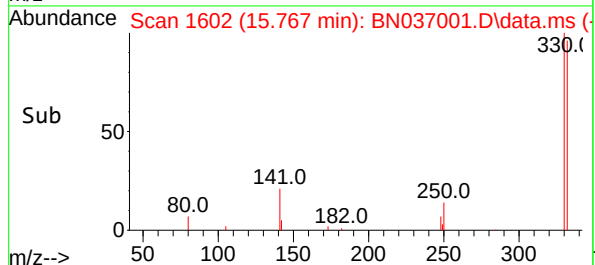
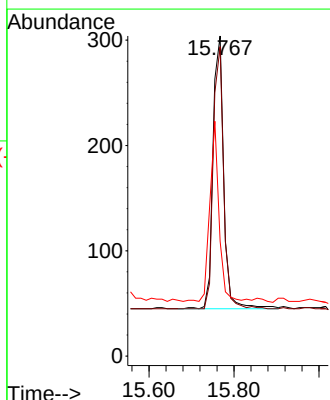
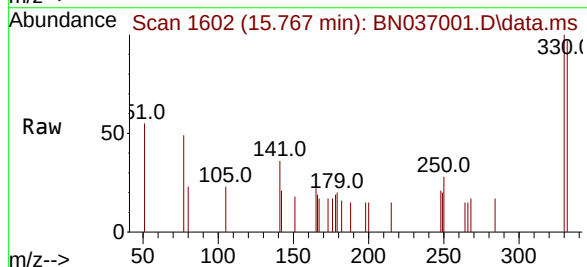
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

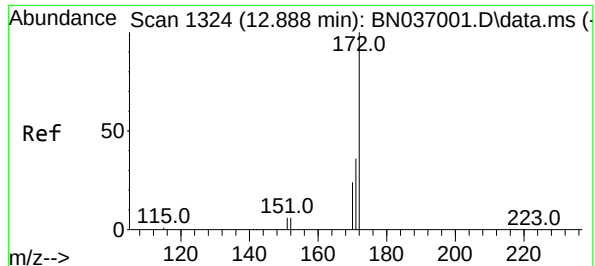
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.3	84.2	126.4
160	53.2	42.6	63.8



#14
2,4,6-Tribromophenol
Concen: 0.404 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion	Ratio	Lower	Upper
330	100		
332	92.3	73.8	110.8
141	54.9	43.9	65.9





#15

2-Fluorobiphenyl

Concen: 0.415 ng

RT: 12.888 min Scan# 1324

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

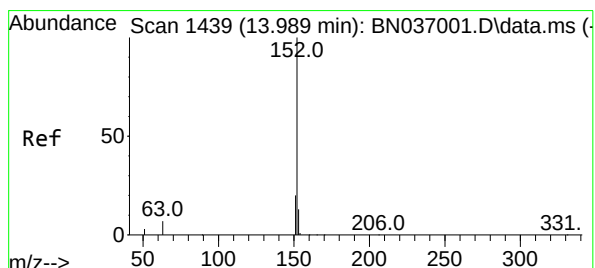
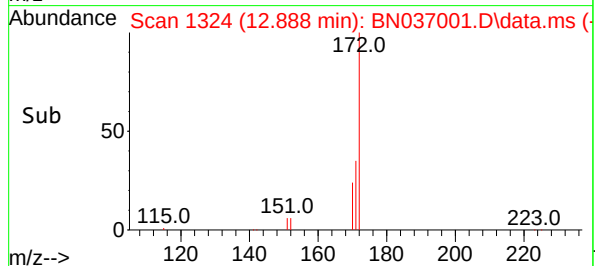
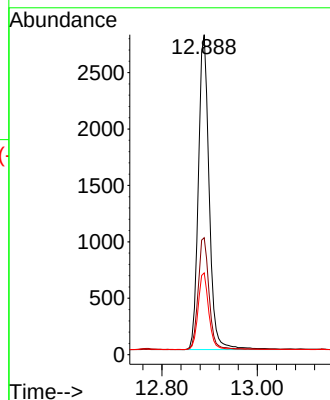
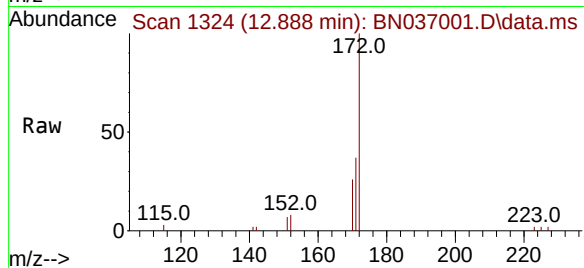
Tgt Ion:172 Resp: 4870

Ion Ratio Lower Upper

172 100

171 36.5 29.2 43.8

170 25.6 20.5 30.7



#16

Acenaphthylene

Concen: 0.389 ng

RT: 13.989 min Scan# 1439

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

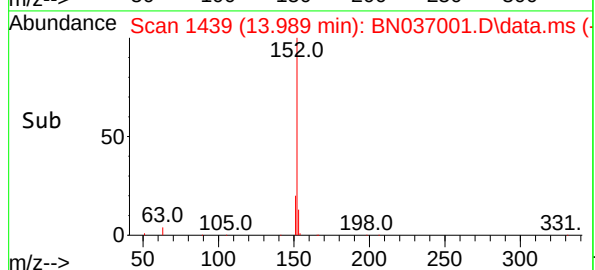
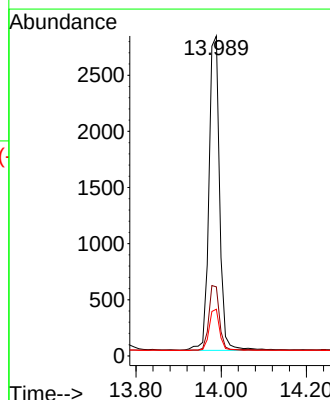
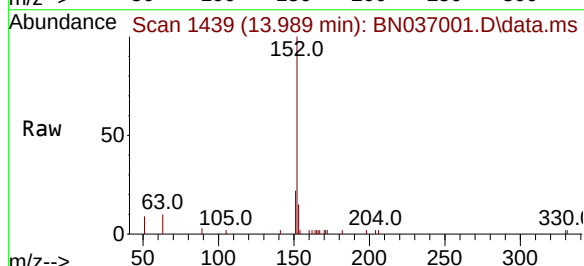
Tgt Ion:152 Resp: 4852

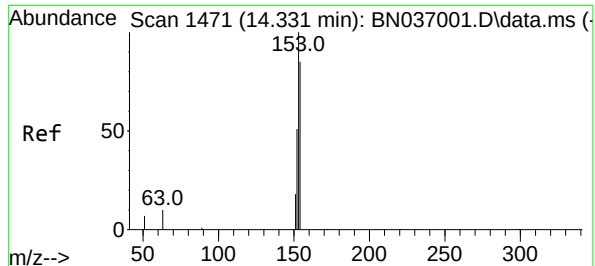
Ion Ratio Lower Upper

152 100

151 20.1 16.1 24.1

153 13.1 10.5 15.7





#17

Acenaphthene

Concen: 0.391 ng

RT: 14.331 min Scan# 1471

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

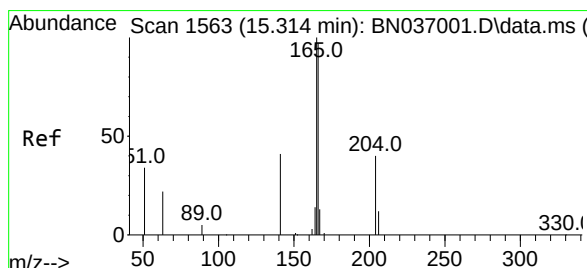
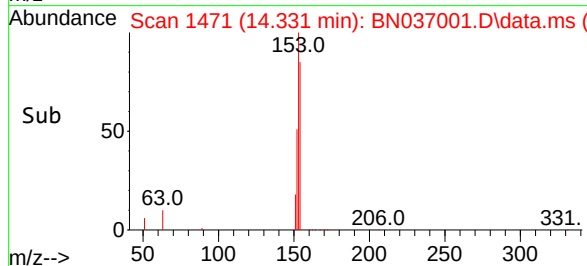
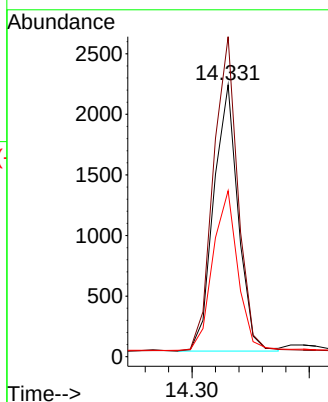
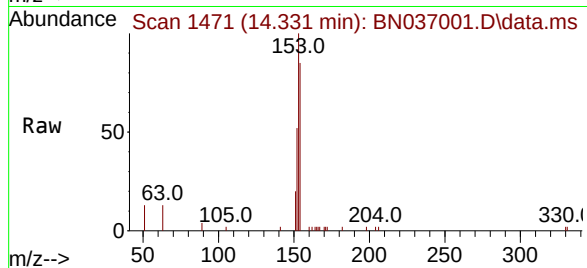
Tgt Ion:154 Resp: 3184

Ion Ratio Lower Upper

154 100

153 117.8 94.2 141.4

152 61.7 49.4 74.0



#18

Fluorene

Concen: 0.392 ng

RT: 15.314 min Scan# 1563

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

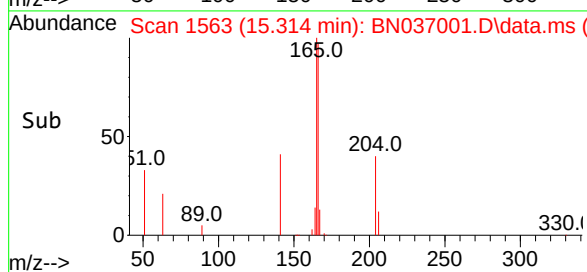
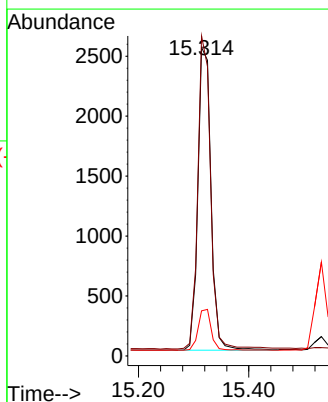
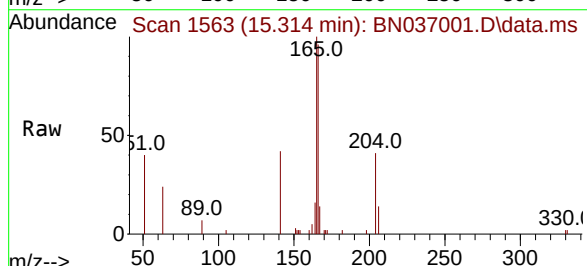
Tgt Ion:166 Resp: 4190

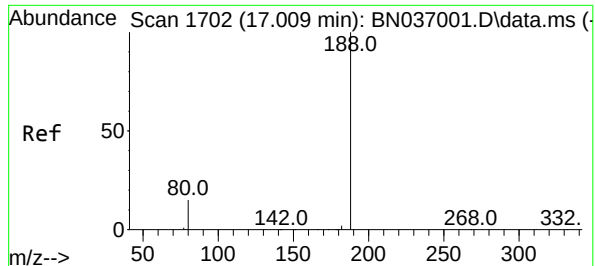
Ion Ratio Lower Upper

166 100

165 100.7 80.6 120.8

167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

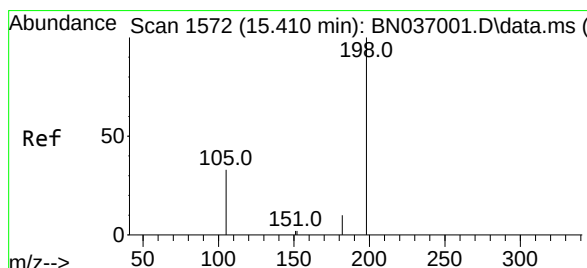
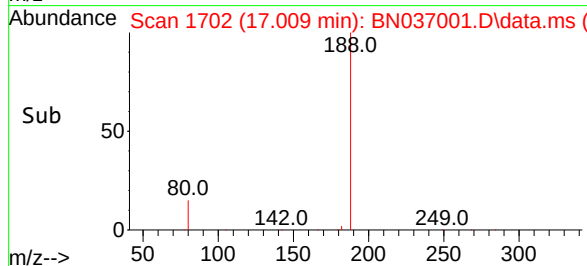
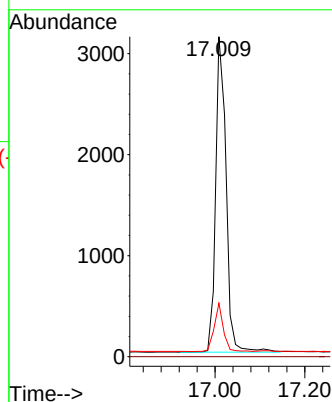
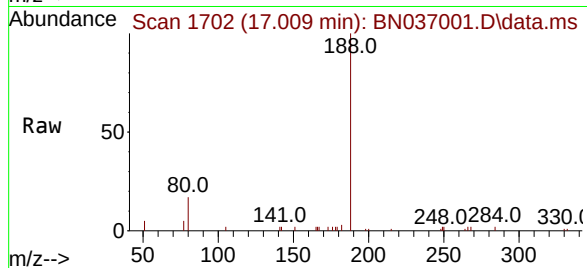
Tgt Ion:188 Resp: 5005

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.7 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.377 ng

RT: 15.410 min Scan# 1572

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

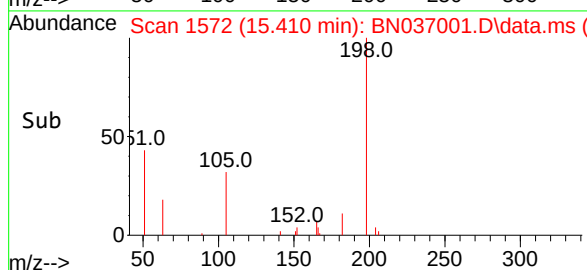
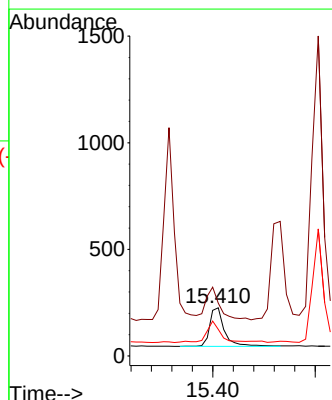
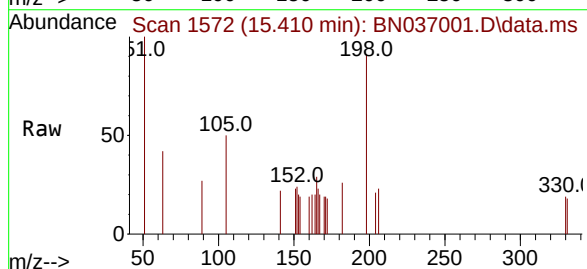
Tgt Ion:198 Resp: 367

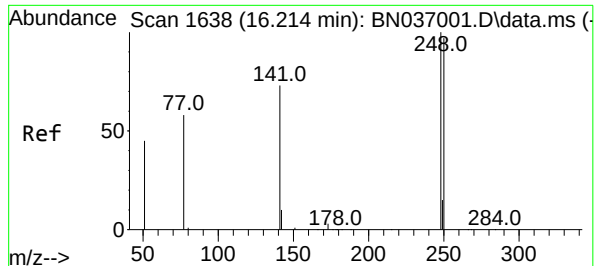
Ion Ratio Lower Upper

198 100

51 109.7 87.8 131.6

105 55.3 44.2 66.4

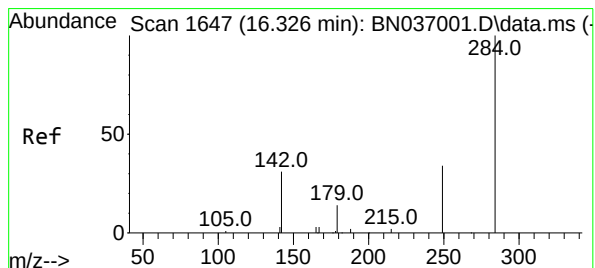
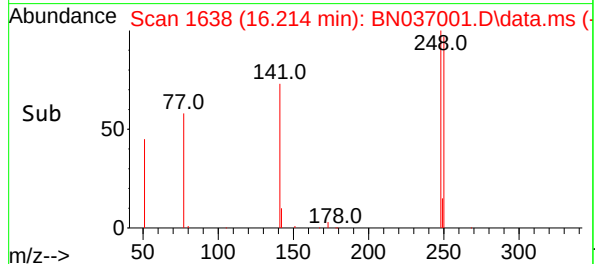
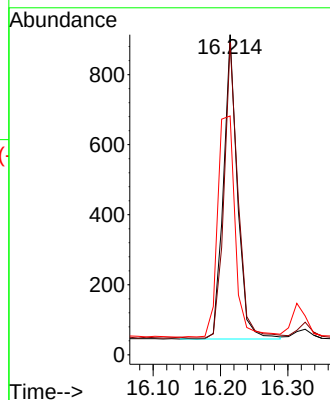
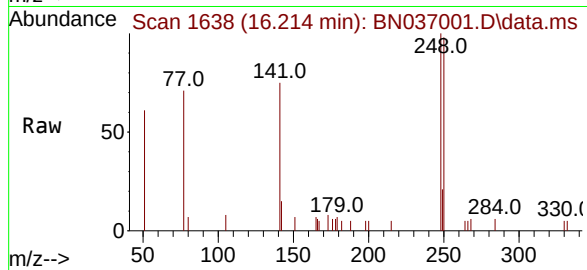




#21
4-Bromophenyl-phenylether
Concen: 0.396 ng
RT: 16.214 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

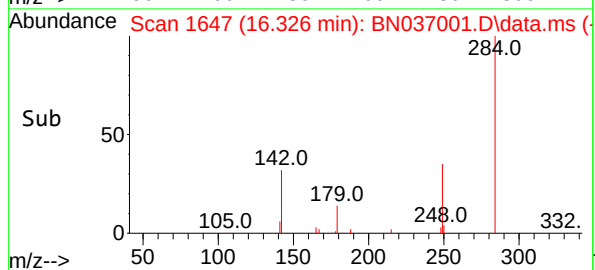
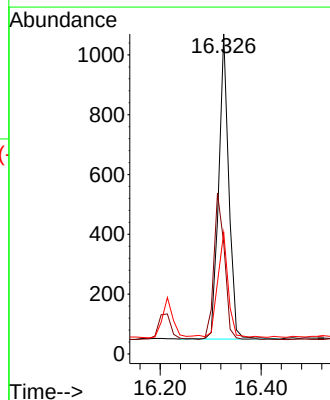
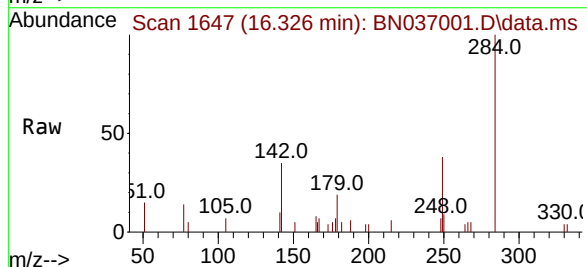
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

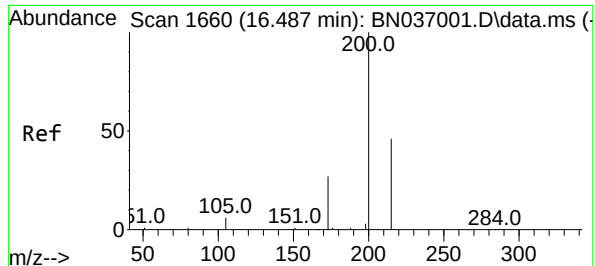
Tgt Ion	Ratio	Lower	Upper
248	100		
250	97.6	78.1	117.1
141	74.6	59.7	89.5



#22
Hexachlorobenzene
Concen: 0.416 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion	Ratio	Lower	Upper
284	100		
142	51.5	41.2	61.8
249	35.9	28.7	43.1

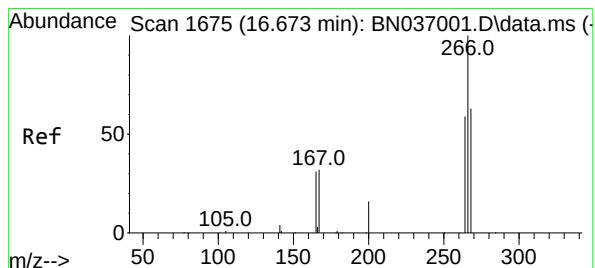
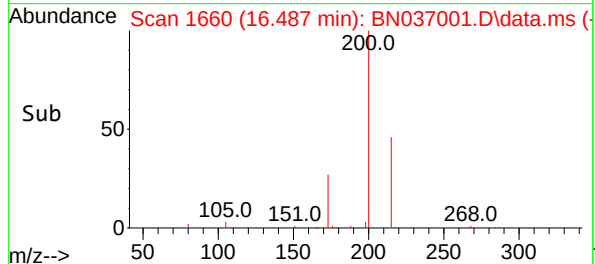
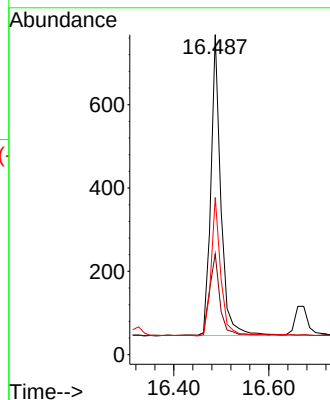
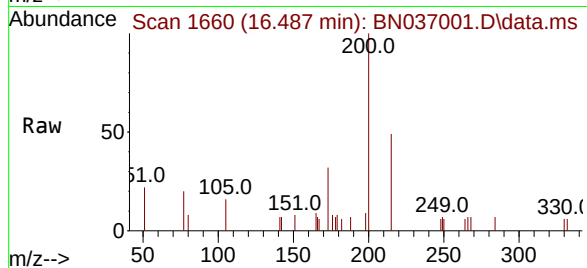




#23
Atrazine
Concen: 0.383 ng
RT: 16.487 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

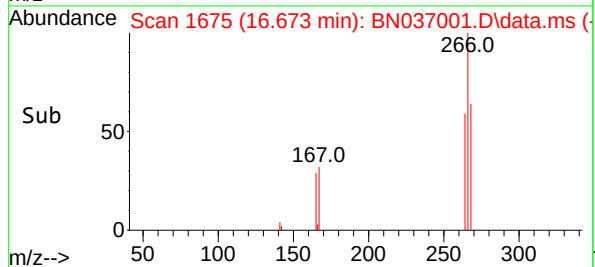
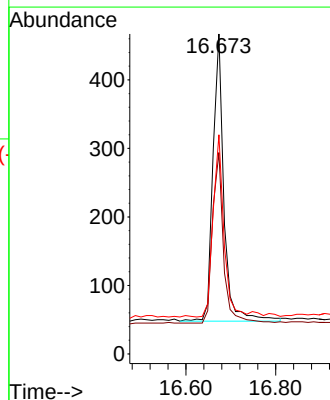
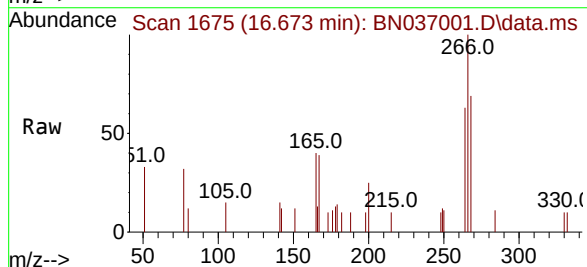
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

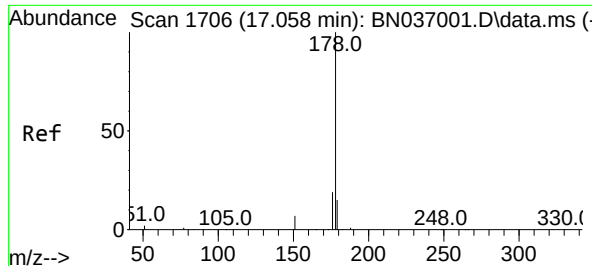
Tgt Ion	Ratio	Lower	Upper
200	100		
173	31.5	25.2	37.8
215	49.1	39.3	58.9



#24
Pentachlorophenol
Concen: 0.376 ng
RT: 16.673 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion	Ratio	Lower	Upper
266	100		
264	59.9	47.9	71.9
268	62.5	50.0	75.0

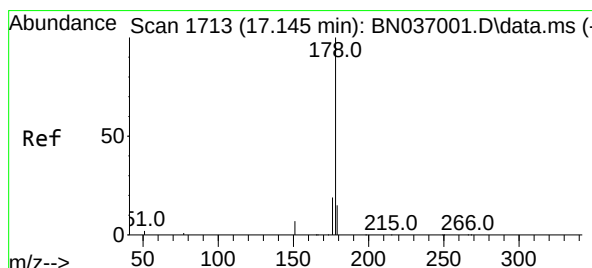
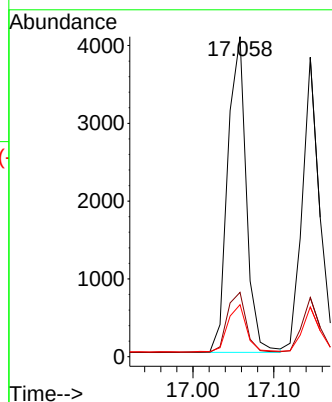
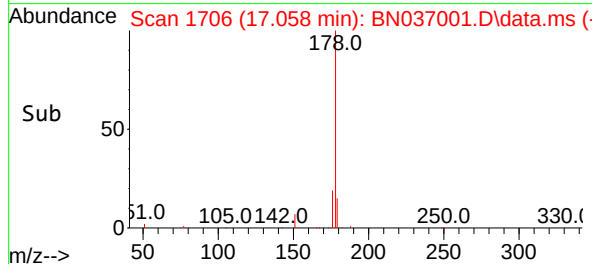
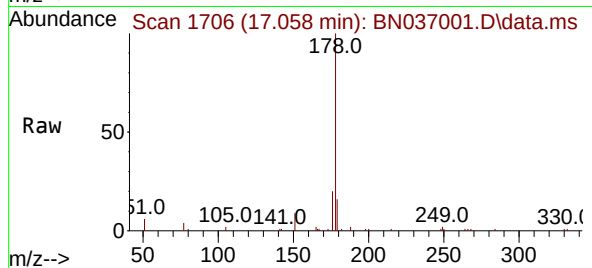




#25
Phenanthrene
Concen: 0.395 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

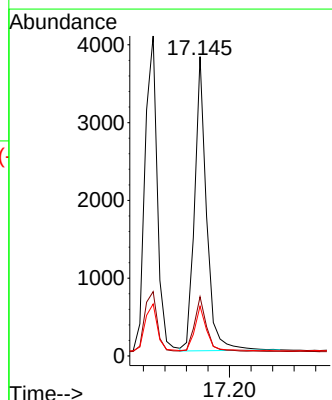
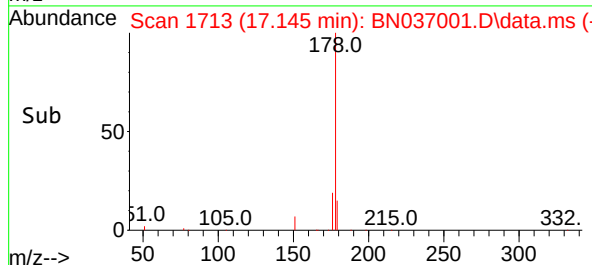
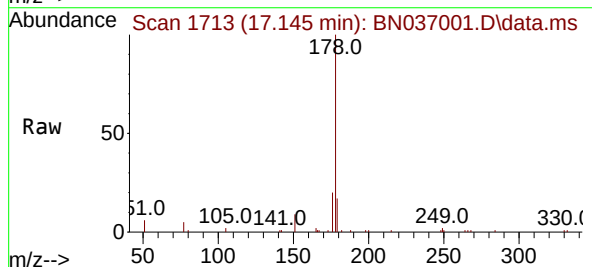
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

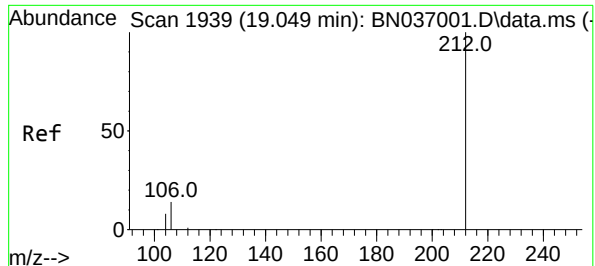
Tgt Ion:178 Resp: 6468
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.2 12.2 18.2



#26
Anthracene
Concen: 0.392 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion:178 Resp: 5835
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.393 ng

RT: 19.049 min Scan# 1939

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

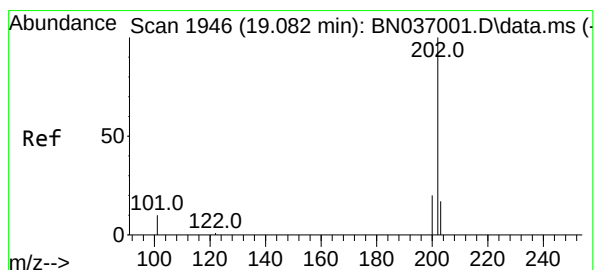
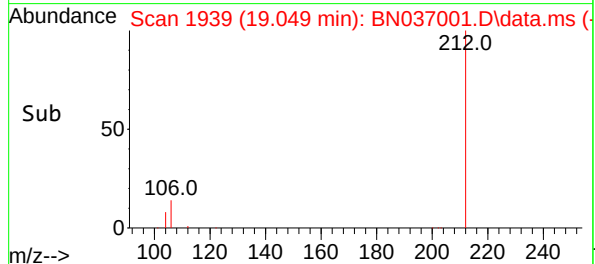
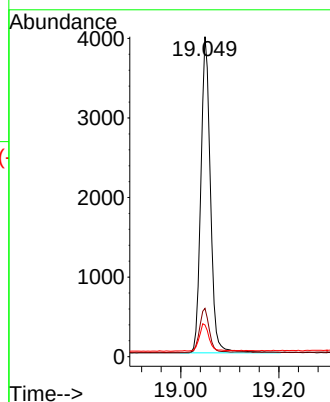
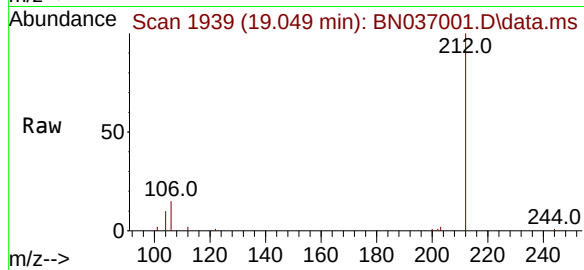
Tgt Ion:212 Resp: 5393

Ion Ratio Lower Upper

212 100

106 14.1 11.3 16.9

104 8.4 6.7 10.1



#28

Fluoranthene

Concen: 0.384 ng

RT: 19.082 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

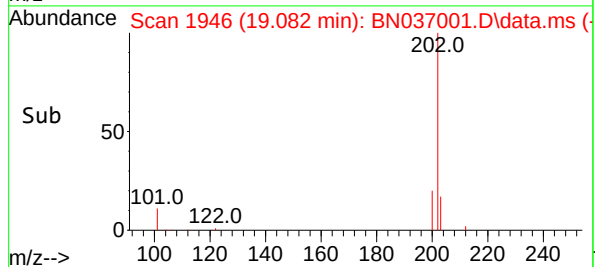
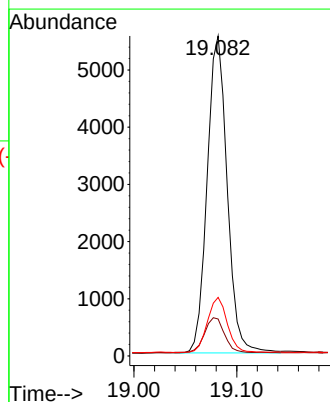
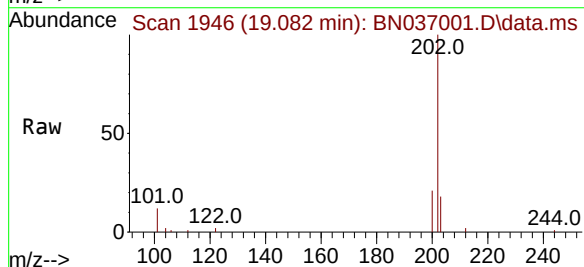
Tgt Ion:202 Resp: 7510

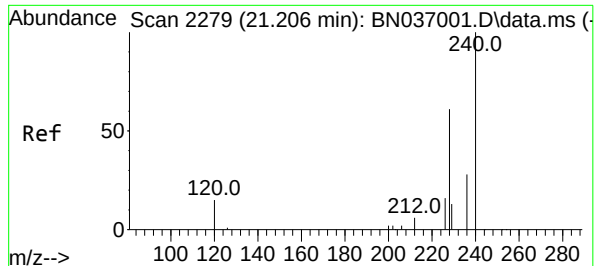
Ion Ratio Lower Upper

202 100

101 11.1 8.9 13.3

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.206 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

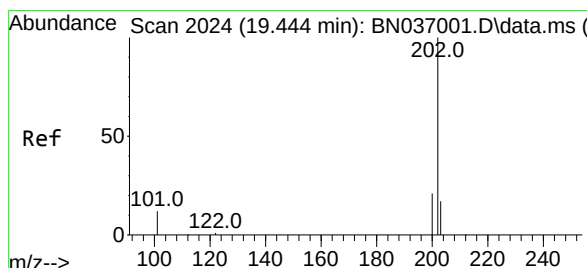
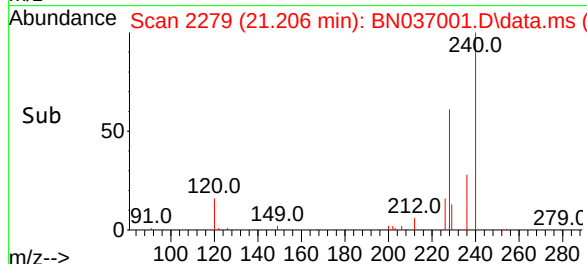
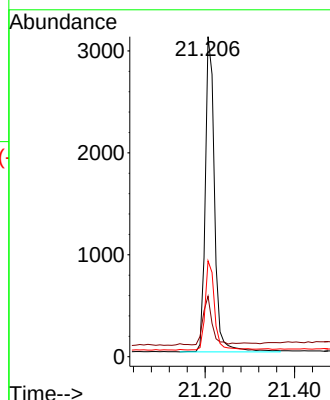
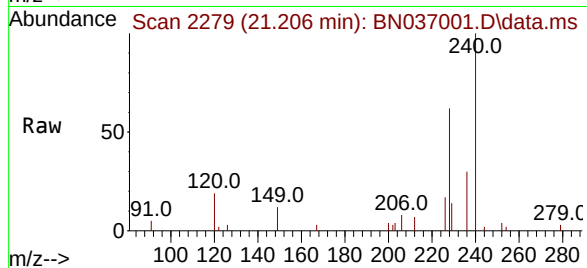
Tgt Ion:240 Resp: 4458

Ion Ratio Lower Upper

240 100

120 18.9 15.1 22.7

236 30.0 24.0 36.0



#30

Pyrene

Concen: 0.404 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

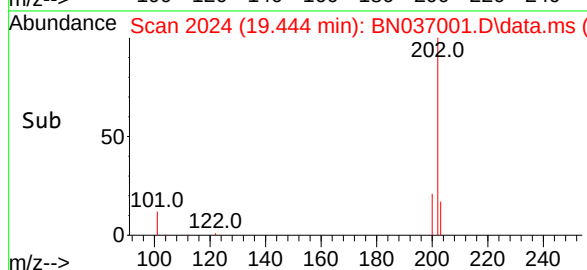
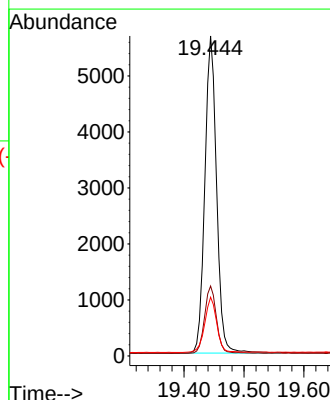
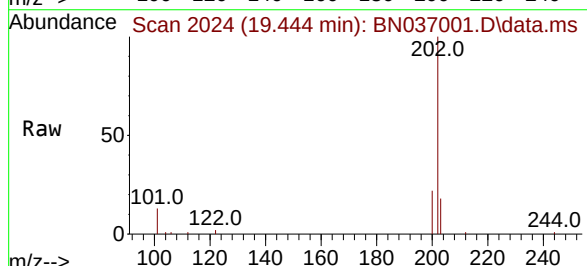
Tgt Ion:202 Resp: 7697

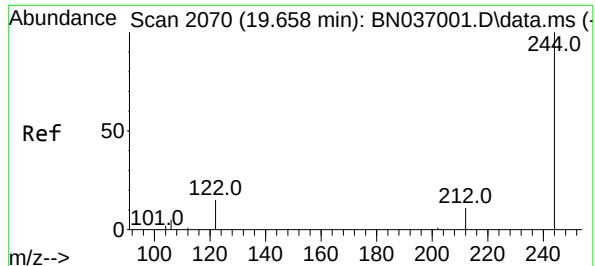
Ion Ratio Lower Upper

202 100

200 21.4 17.1 25.7

203 17.8 14.2 21.4

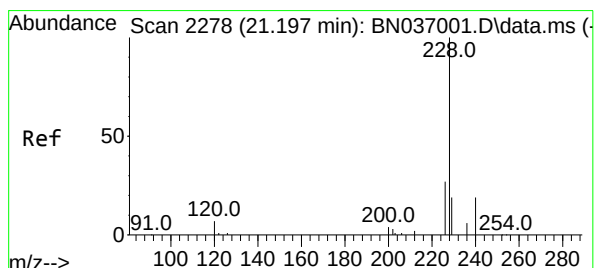
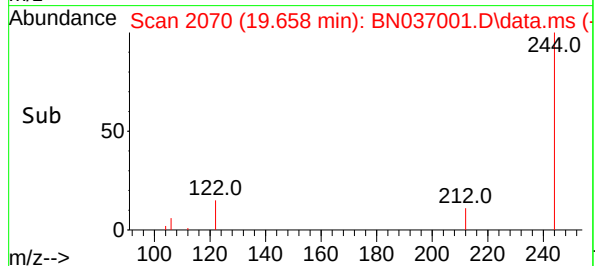
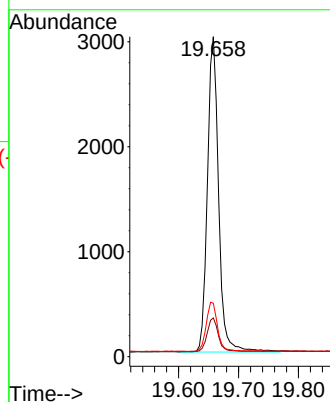
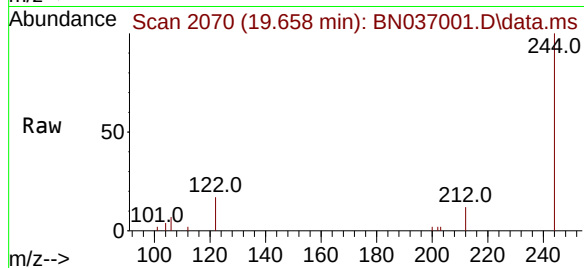




#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.658 min Scan# 2070
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

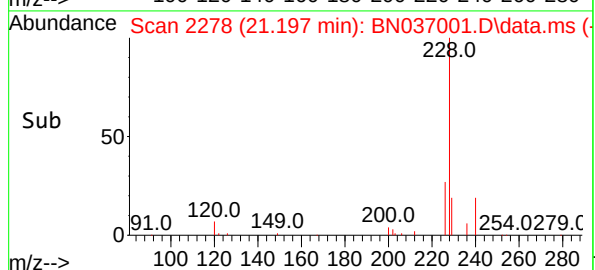
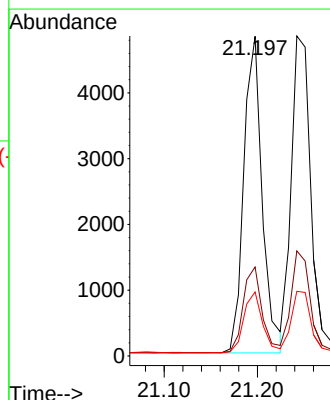
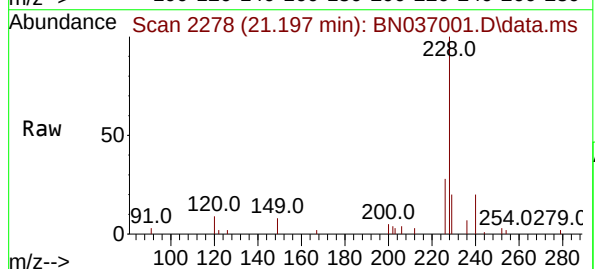
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

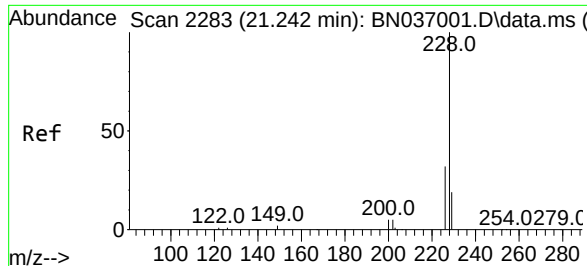
Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.1	9.7	14.5
122	16.7	13.4	20.0



#32
Benzo(a)anthracene
Concen: 0.394 ng
RT: 21.197 min Scan# 2278
Delta R.T. 0.000 min
Lab File: BN037001.D
Acq: 13 May 2025 18:53

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.2	33.4
229	20.0	16.0	24.0





#33

Chrysene

Concen: 0.406 ng

RT: 21.242 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

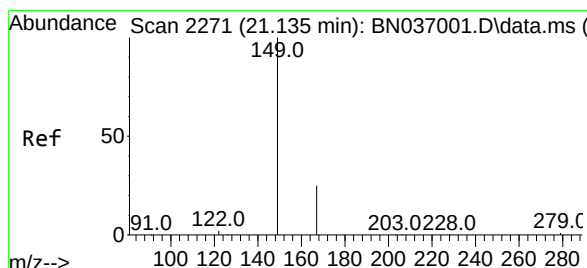
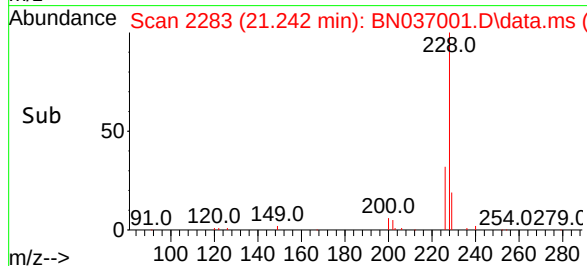
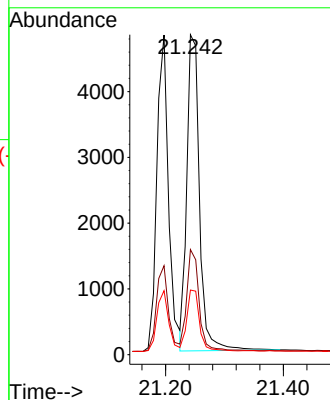
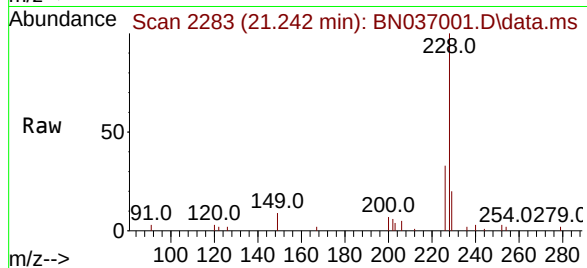
Tgt Ion:228 Resp: 7204

Ion Ratio Lower Upper

228 100

226 32.9 26.3 39.5

229 20.2 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.390 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

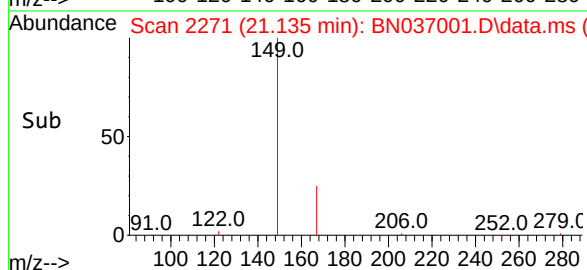
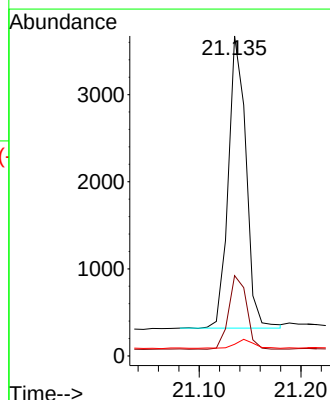
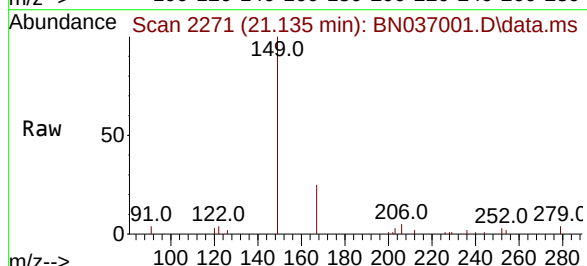
Tgt Ion:149 Resp: 4039

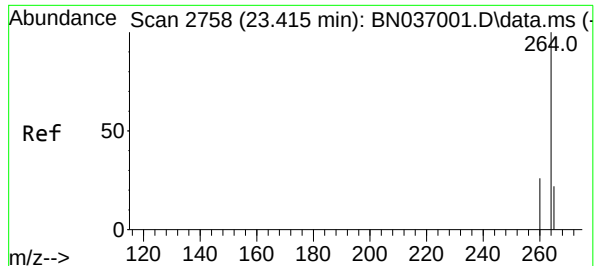
Ion Ratio Lower Upper

149 100

167 25.7 20.6 30.8

279 3.2 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.415 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

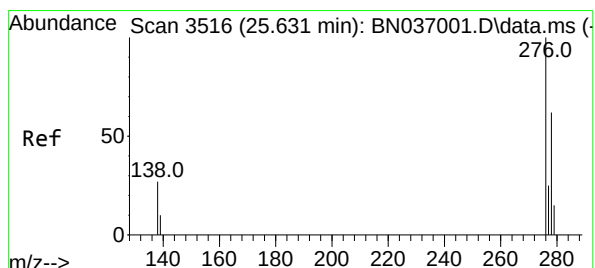
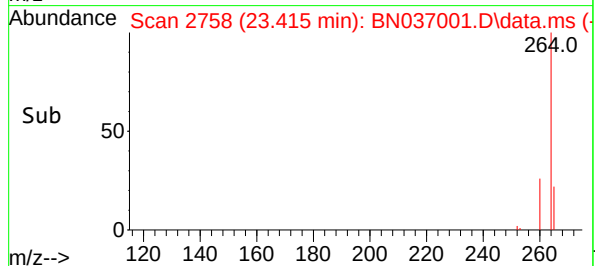
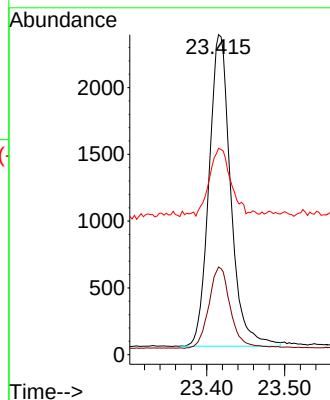
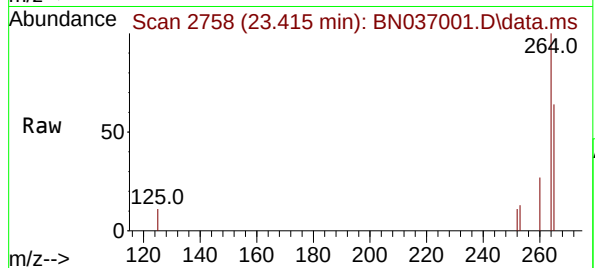
Tgt Ion:264 Resp: 4521

Ion Ratio Lower Upper

264 100

260 27.4 21.9 32.9

265 64.5 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.403 ng

RT: 25.631 min Scan# 3516

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

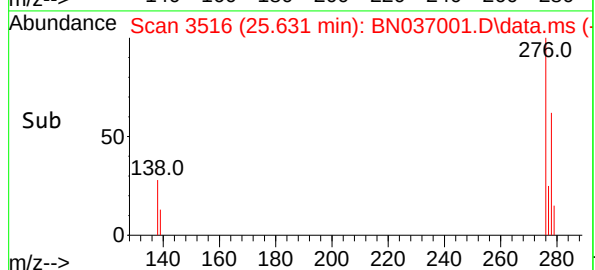
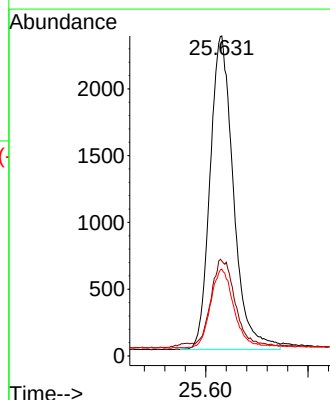
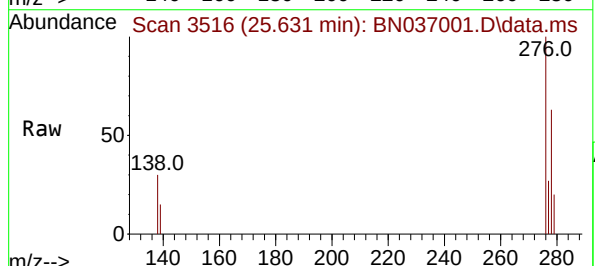
Tgt Ion:276 Resp: 7438

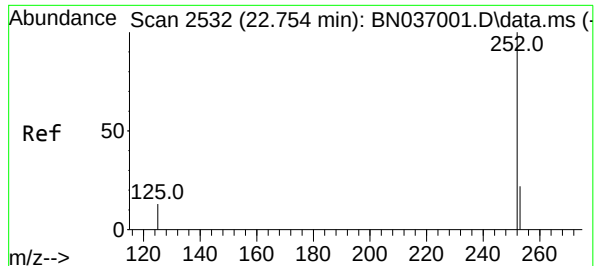
Ion Ratio Lower Upper

276 100

138 28.4 22.7 34.1

277 25.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.386 ng

RT: 22.754 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

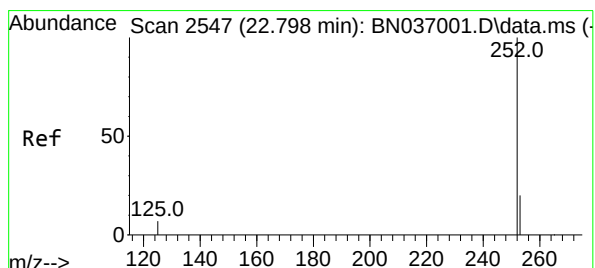
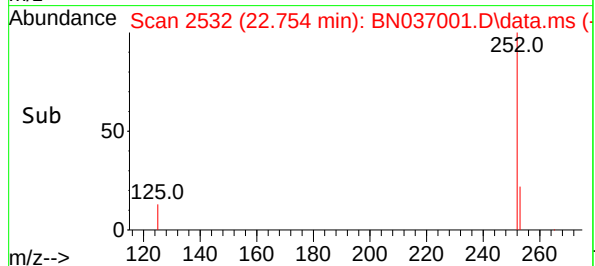
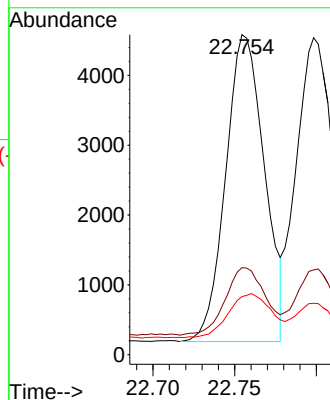
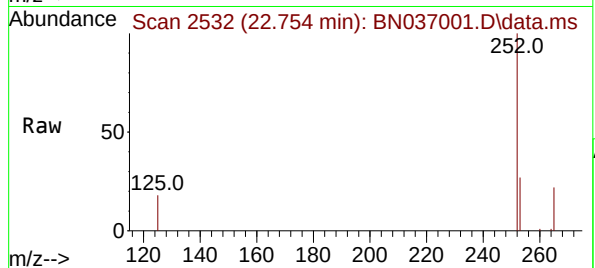
Tgt Ion:252 Resp: 7242

Ion Ratio Lower Upper

252 100

253 27.2 21.8 32.6

125 18.2 14.6 21.8



#38

Benzo(k)fluoranthene

Concen: 0.401 ng

RT: 22.798 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

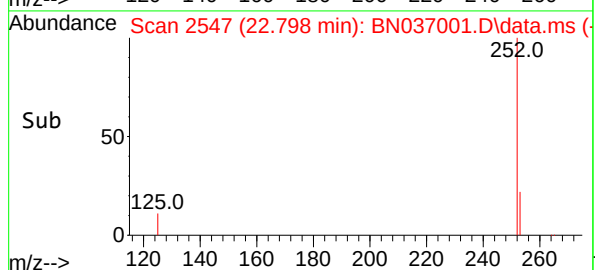
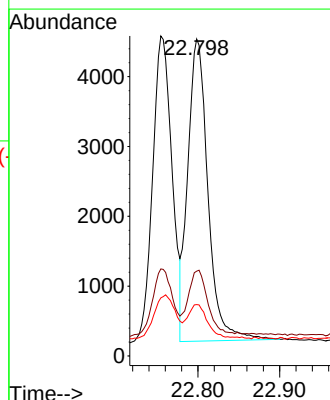
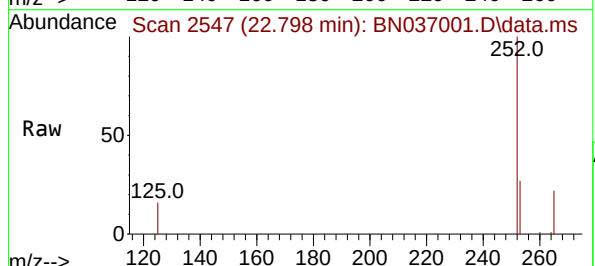
Tgt Ion:252 Resp: 7424

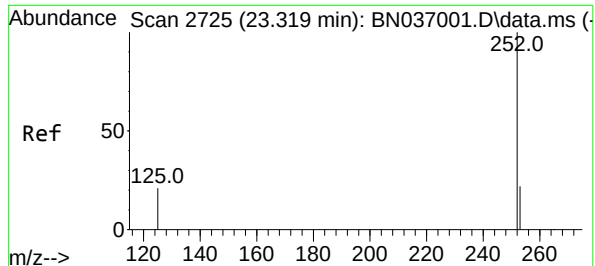
Ion Ratio Lower Upper

252 100

253 26.8 21.4 32.2

125 16.2 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.393 ng

RT: 23.319 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

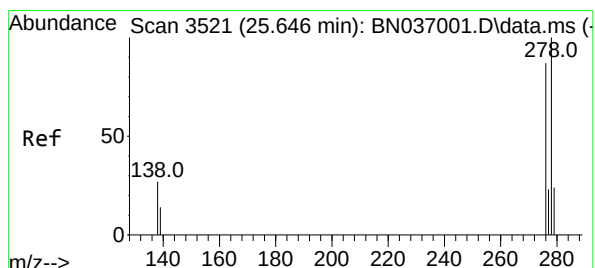
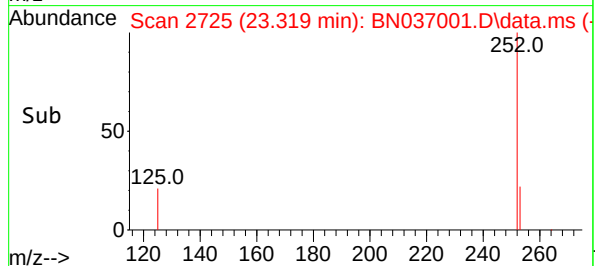
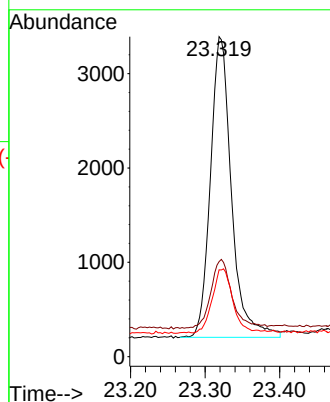
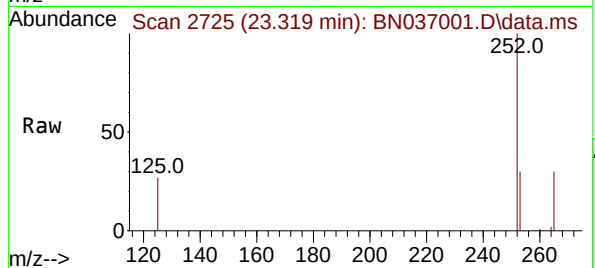
Tgt Ion:252 Resp: 6245

Ion Ratio Lower Upper

252 100

253 29.7 23.8 35.6

125 27.2 21.8 32.6



#40

Dibenzo(a,h)anthracene

Concen: 0.400 ng

RT: 25.646 min Scan# 3521

Delta R.T. 0.000 min

Lab File: BN037001.D

Acq: 13 May 2025 18:53

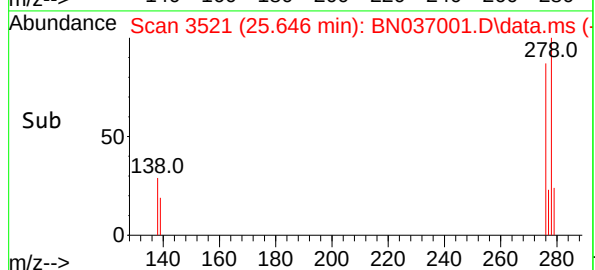
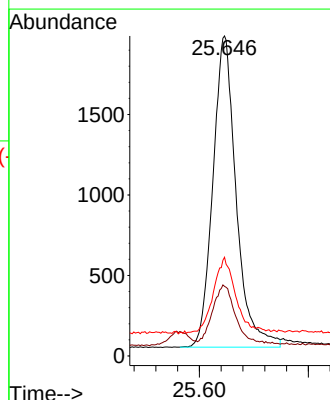
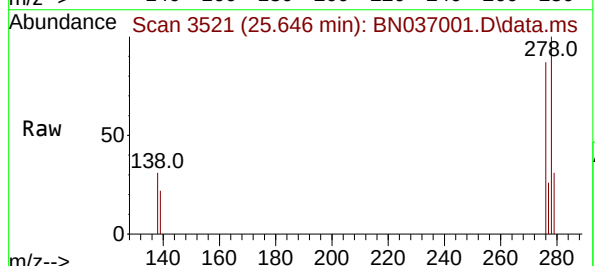
Tgt Ion:278 Resp: 5753

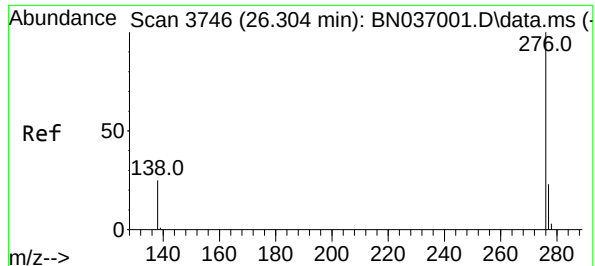
Ion Ratio Lower Upper

278 100

139 21.7 17.4 26.0

279 30.8 24.6 37.0





#41

Benzo(g,h,i)perylene

Concen: 0.412 ng

RT: 26.304 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037001.D

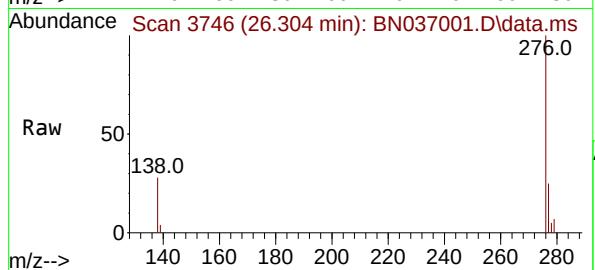
Acq: 13 May 2025 18:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



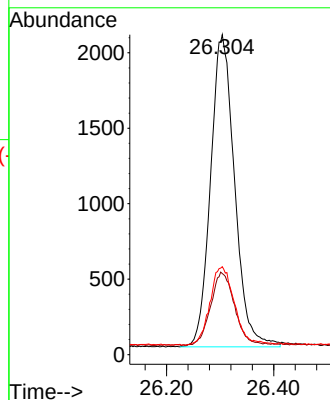
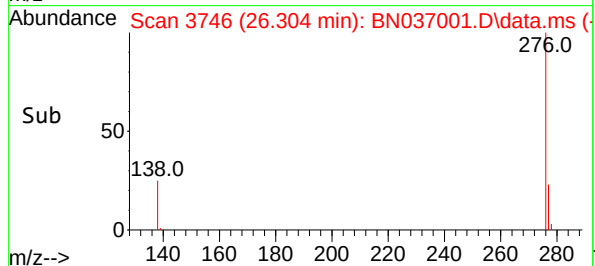
Tgt Ion:276 Resp: 6438

Ion Ratio Lower Upper

276 100

277 25.3 20.2 30.4

138 27.5 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037002.D
 Acq On : 13 May 2025 19:29
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: May 14 11:01:02 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 10:57:36 2025
 Response via : Initial Calibration

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

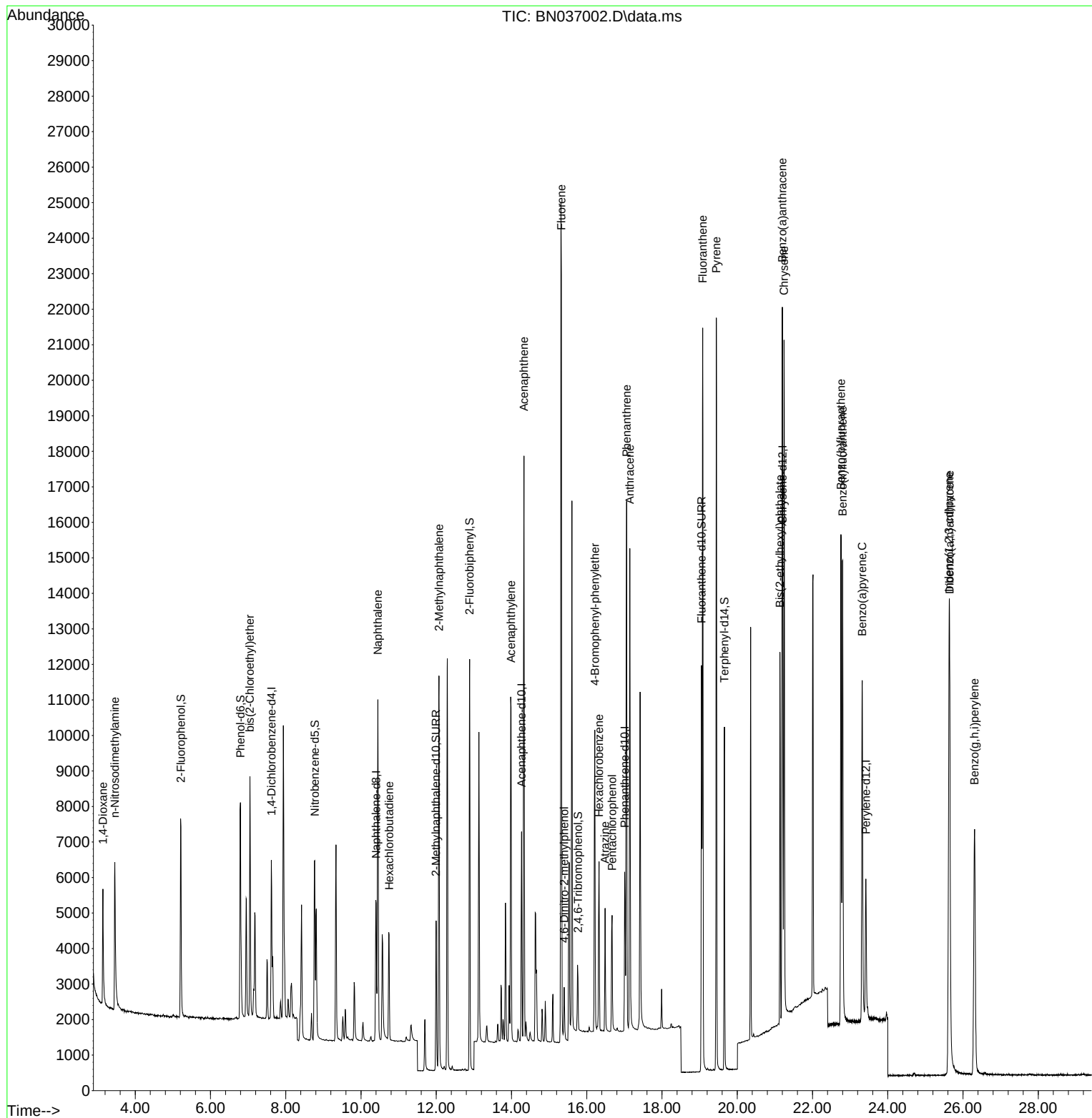
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	2018	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	5326	0.400	ng	0.00
13) Acenaphthene-d10	14.267	164	3047	0.400	ng	0.00
19) Phenanthrene-d10	17.009	188	5996	0.400	ng	0.00
29) Chrysene-d12	21.207	240	5456	0.400	ng	0.00
35) Perylene-d12	23.418	264	5077	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	4133	0.782	ng	0.00
5) Phenol-d6	6.795	99	4989	0.754	ng	0.00
8) Nitrobenzene-d5	8.771	82	4266	0.736	ng	0.00
11) 2-Methylnaphthalene-d10	11.996	152	5833	0.778	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	972	0.726	ng	0.00
15) 2-Fluorobiphenyl	12.889	172	10981	0.787	ng	0.00
27) Fluoranthene-d10	19.054	212	12492	0.760	ng	0.00
31) Terphenyl-d14	19.658	244	8975	0.769	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.141	88	1965	0.794	ng	97
3) n-Nitrosodimethylamine	3.458	42	3920	0.737	ng	# 94
6) bis(2-Chloroethyl)ether	7.048	93	4579	0.752	ng	99
9) Naphthalene	10.447	128	11949	0.759	ng	97
10) Hexachlorobutadiene	10.746	225	2502	0.757	ng	# 100
12) 2-Methylnaphthalene	12.072	142	7803	0.771	ng	98
16) Acenaphthylene	13.989	152	11268	0.760	ng	100
17) Acenaphthene	14.331	154	7416	0.765	ng	99
18) Fluorene	15.325	166	9818	0.772	ng	99
20) 4,6-Dinitro-2-methylph...	15.400	198	946	0.760	ng	90
21) 4-Bromophenyl-phenylether	16.214	248	2963	0.782	ng	95
22) Hexachlorobenzene	16.326	284	3104	0.766	ng	97
23) Atrazine	16.487	200	2560	0.775	ng	92
24) Pentachlorophenol	16.674	266	1644	0.730	ng	97
25) Phenanthrene	17.058	178	15146	0.773	ng	100
26) Anthracene	17.145	178	13548	0.760	ng	99
28) Fluoranthene	19.082	202	17938	0.766	ng	100
30) Pyrene	19.444	202	18075	0.774	ng	100
32) Benzo(a)anthracene	21.198	228	15689	0.764	ng	99
33) Chrysene	21.242	228	16717	0.769	ng	98
34) Bis(2-ethylhexyl)phtha...	21.135	149	9326	0.737	ng	99
36) Indeno(1,2,3-cd)pyrene	25.629	276	15921	0.768	ng	99
37) Benzo(b)fluoranthene	22.755	252	16240	0.772	ng	# 93
38) Benzo(k)fluoranthene	22.798	252	16259	0.782	ng	94
39) Benzo(a)pyrene	23.322	252	13516	0.757	ng	# 87
40) Dibenzo(a,h)anthracene	25.643	278	12556	0.777	ng	94
41) Benzo(g,h,i)perylene	26.307	276	13503	0.769	ng	98

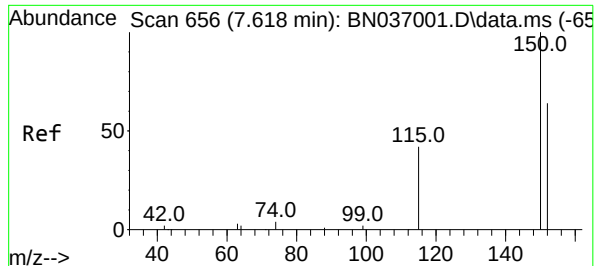
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037002.D
Acq On : 13 May 2025 19:29
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

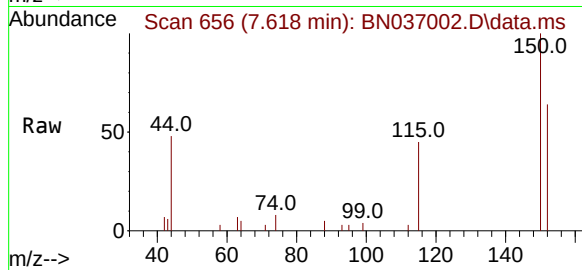
Quant Time: May 14 11:01:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration



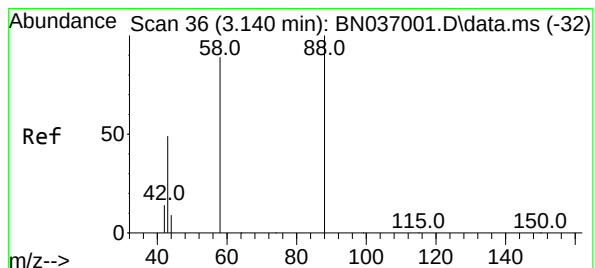
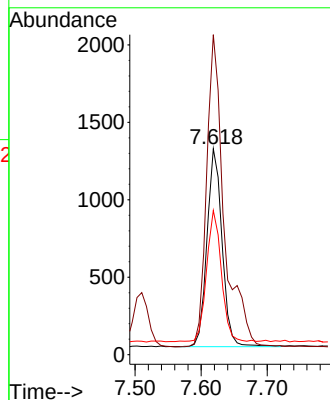
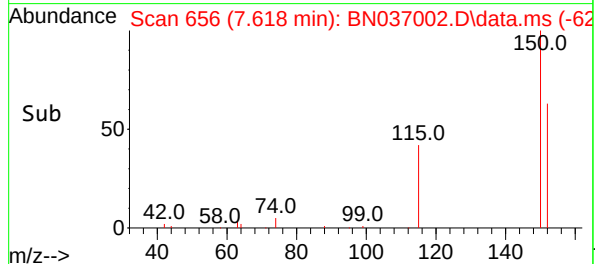


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

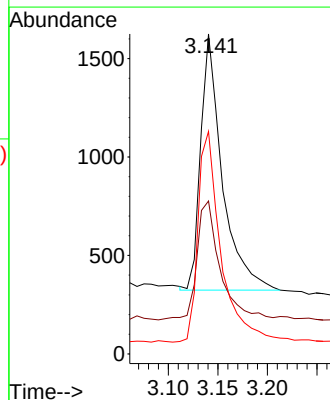
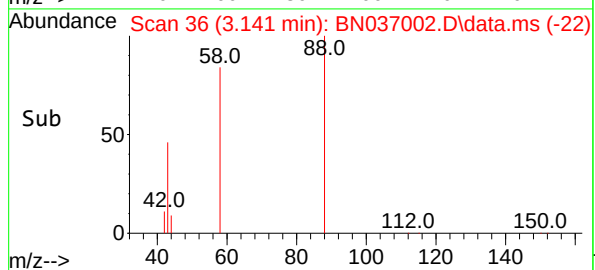
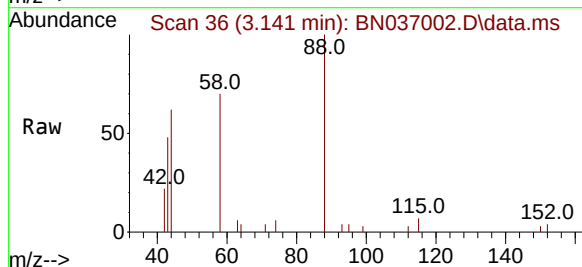


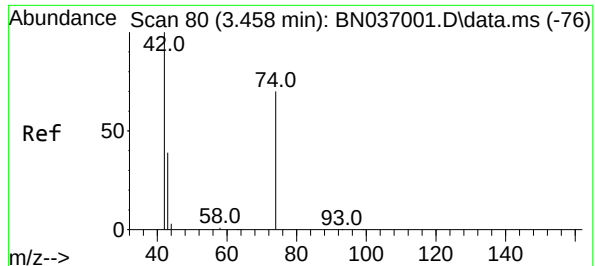
Tgt Ion:152 Resp: 2018
Ion Ratio Lower Upper
152 100
150 155.3 123.9 185.9
115 70.0 55.8 83.8



#2
1,4-Dioxane
Concen: 0.794 ng
RT: 3.141 min Scan# 36
Delta R.T. 0.001 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion: 88 Resp: 1965
Ion Ratio Lower Upper
88 100
43 50.3 37.4 56.0
58 87.7 68.8 103.2

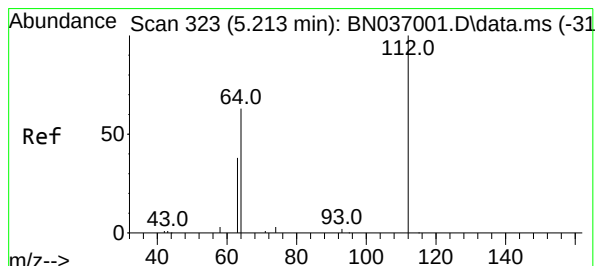
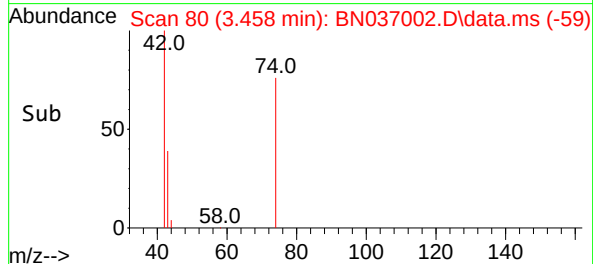
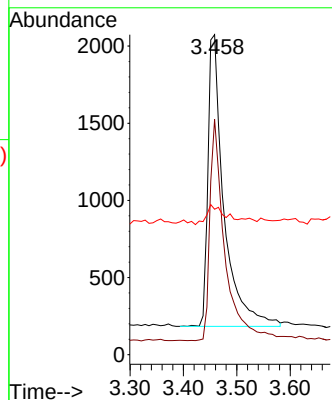
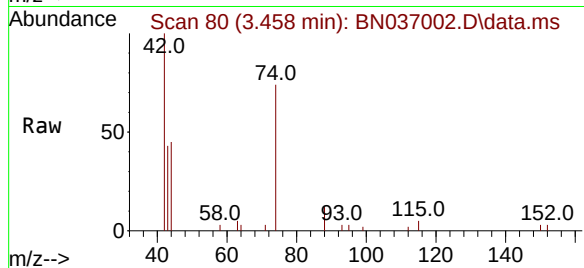




#3
n-Nitrosodimethylamine
Concen: 0.737 ng
RT: 3.458 min Scan# 80
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

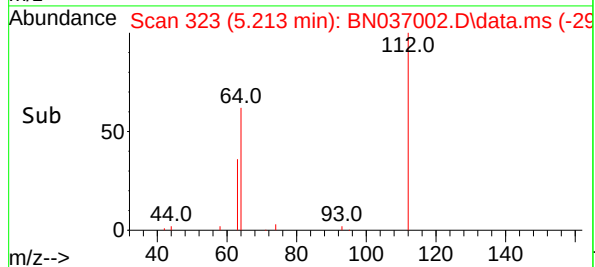
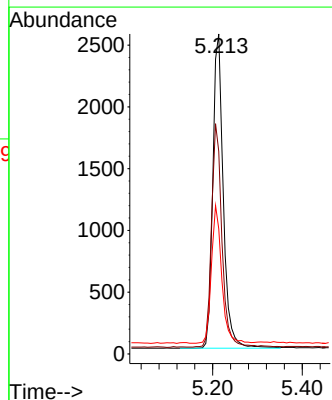
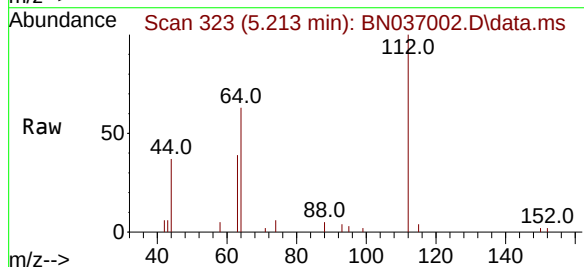
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

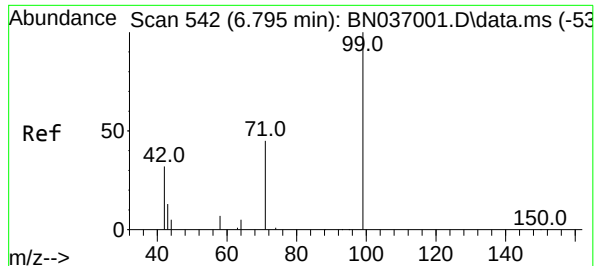
Tgt Ion: 42 Resp: 3920
Ion Ratio Lower Upper
42 100
74 71.0 59.8 89.6
44 7.7 11.9 17.9#



#4
2-Fluorophenol
Concen: 0.782 ng
RT: 5.213 min Scan# 323
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion: 112 Resp: 4133
Ion Ratio Lower Upper
112 100
64 70.4 55.7 83.5
63 42.7 34.6 51.8

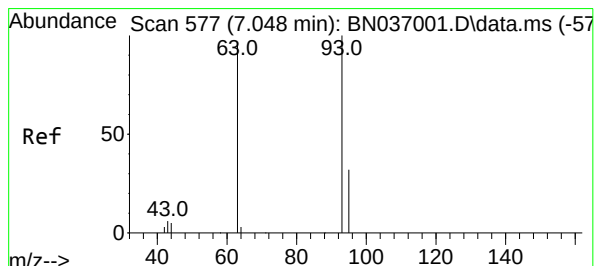
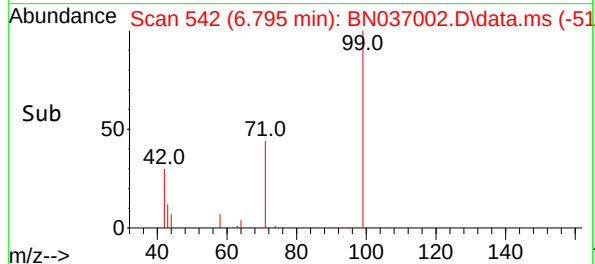
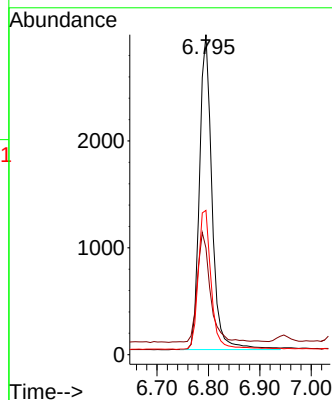
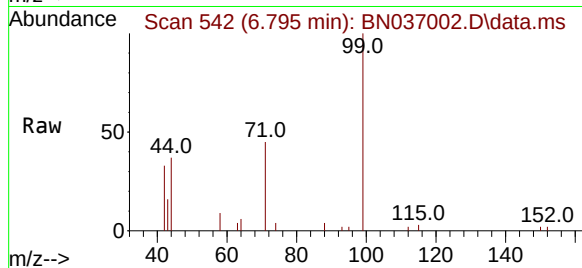




#5
Phenol-d6
Concen: 0.754 ng
RT: 6.795 min Scan# 542
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

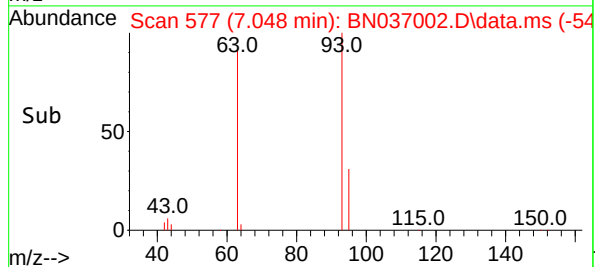
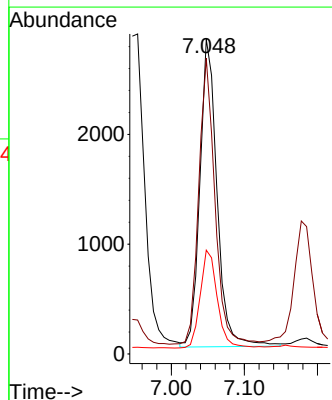
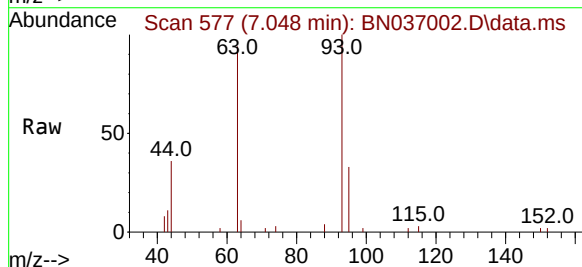
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

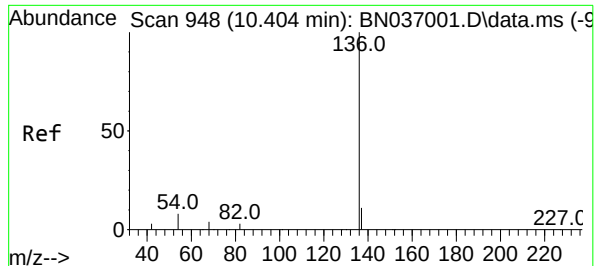
Tgt Ion: 99 Resp: 4989
Ion Ratio Lower Upper
99 100
42 36.4 29.3 43.9
71 46.4 35.7 53.5



#6
bis(2-Chloroethyl)ether
Concen: 0.752 ng
RT: 7.048 min Scan# 577
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion: 93 Resp: 4579
Ion Ratio Lower Upper
93 100
63 87.2 70.1 105.1
95 32.0 26.2 39.2

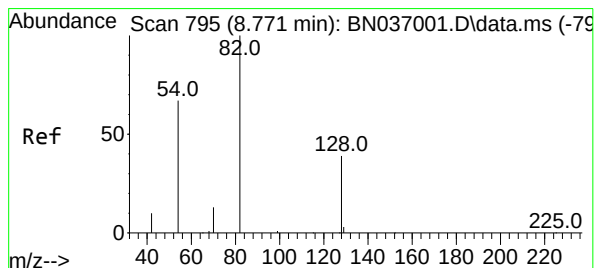
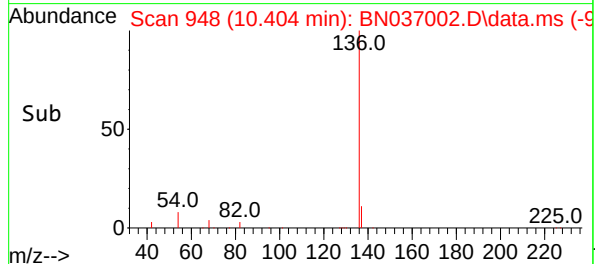
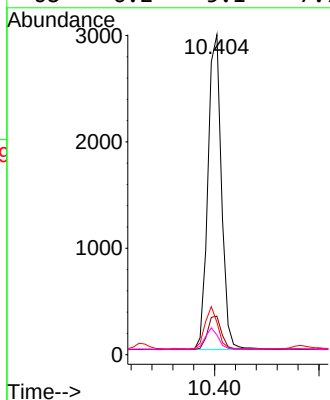
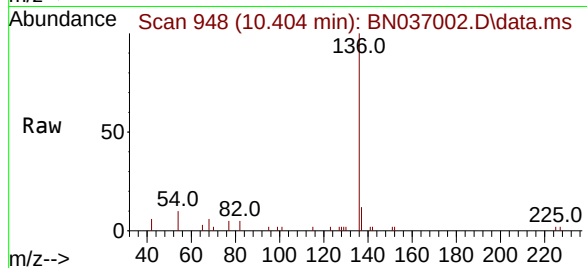




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

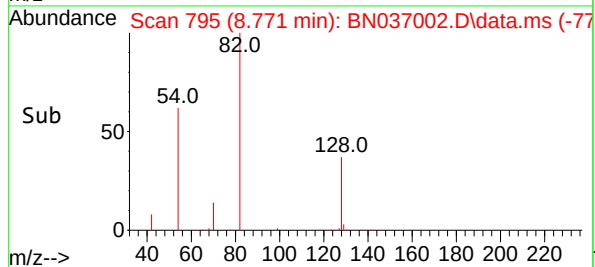
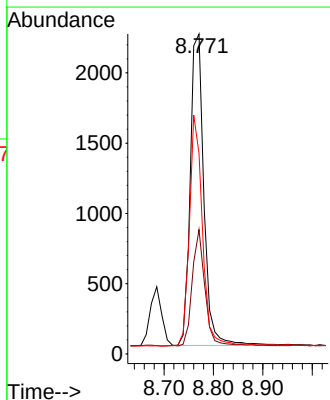
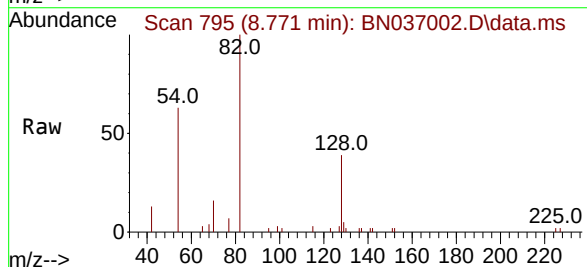
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BNA_N
ClientSampleId :
SSTDICC0.8

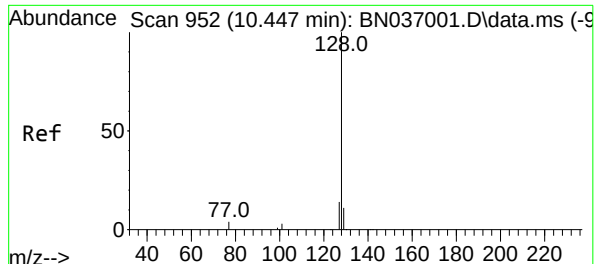
Tgt Ion:	136	Resp:	5326
Ion	Ratio	Lower	Upper
136	100		
137	12.0	10.4	15.6
54	10.1	8.5	12.7
68	6.2	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.736 ng
RT: 8.771 min Scan# 795
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion:	82	Resp:	4266
Ion	Ratio	Lower	Upper
82	100		
128	38.9	34.0	51.0
54	62.7	55.0	82.4





#9

Naphthalene

Concen: 0.759 ng

RT: 10.447 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

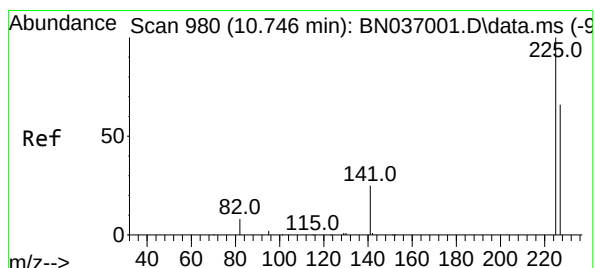
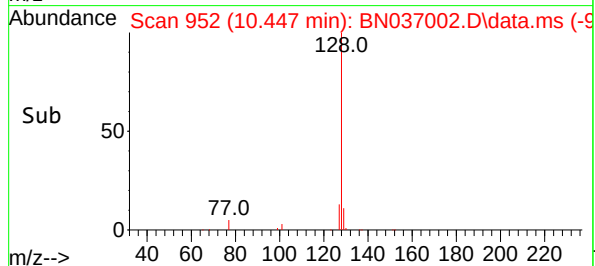
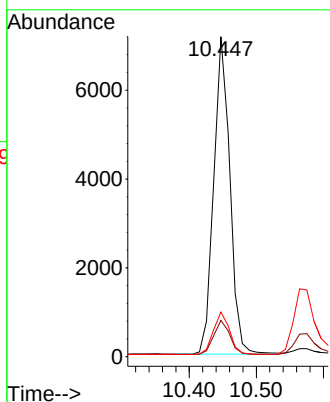
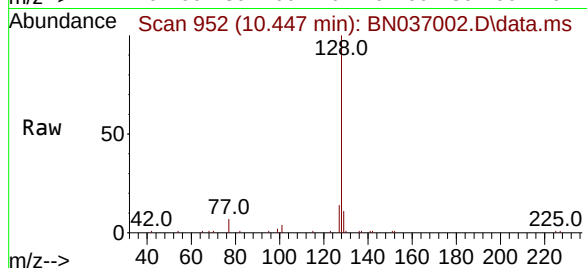
Tgt Ion:128 Resp: 11949

Ion Ratio Lower Upper

128 100

129 11.3 9.7 14.5

127 14.0 12.4 18.6



#10

Hexachlorobutadiene

Concen: 0.757 ng

RT: 10.746 min Scan# 980

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

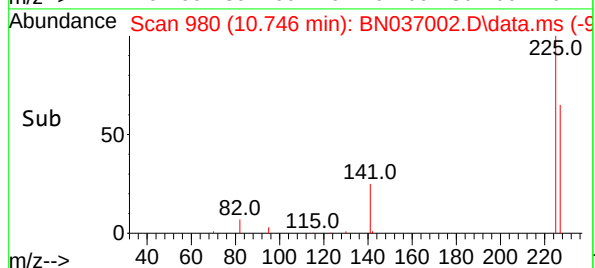
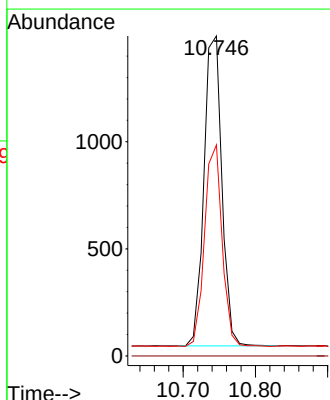
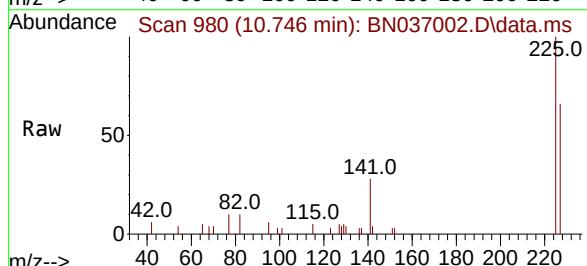
Tgt Ion:225 Resp: 2502

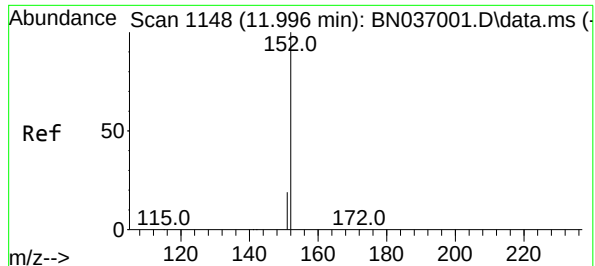
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.5 50.9 76.3

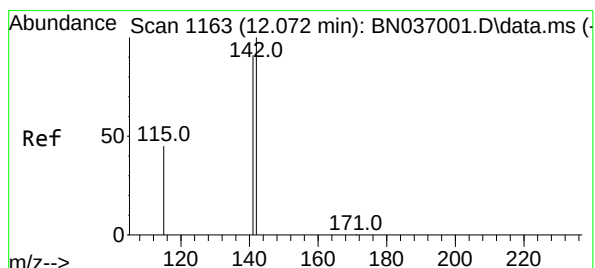
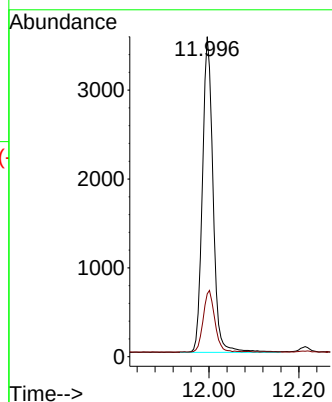
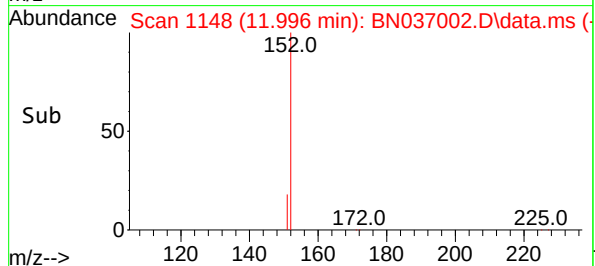
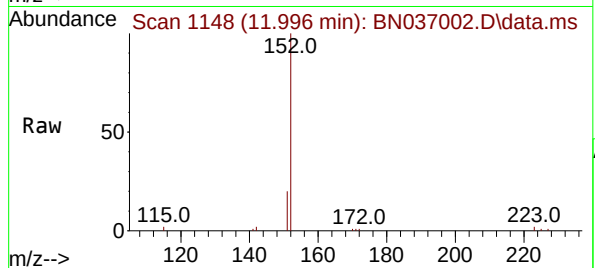




#11
2-Methylnaphthalene-d10
Concen: 0.778 ng
RT: 11.996 min Scan# 1148
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

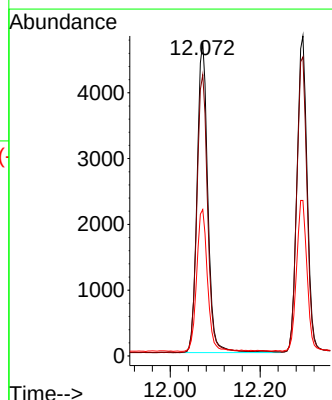
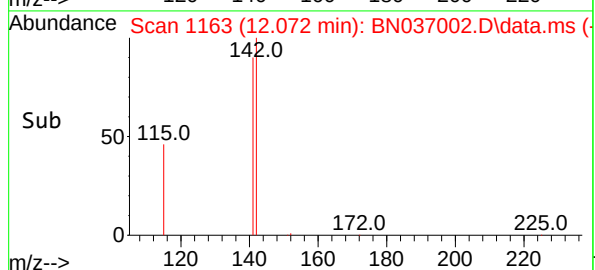
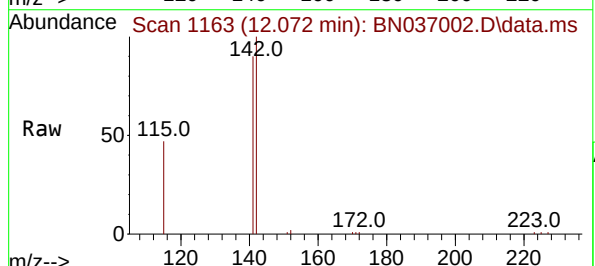
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

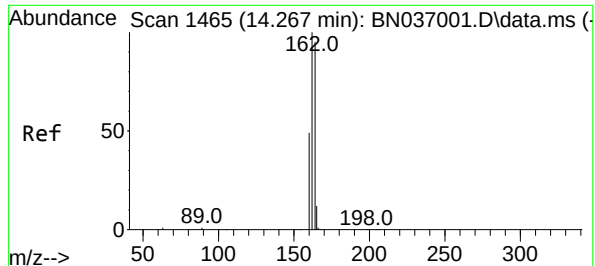
Tgt Ion:152 Resp: 5833
Ion Ratio Lower Upper
152 100
151 21.2 17.5 26.3



#12
2-Methylnaphthalene
Concen: 0.771 ng
RT: 12.072 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion:142 Resp: 7803
Ion Ratio Lower Upper
142 100
141 89.7 73.3 109.9
115 46.7 38.4 57.6

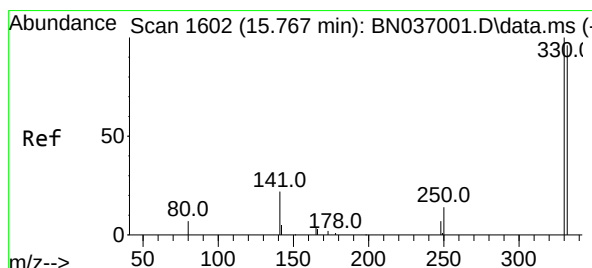
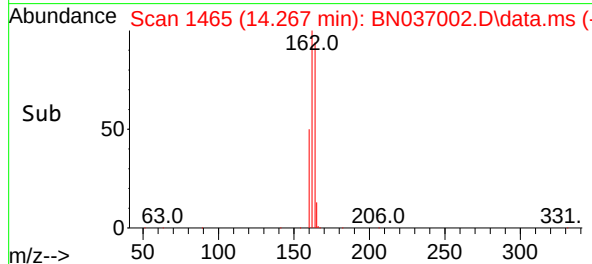
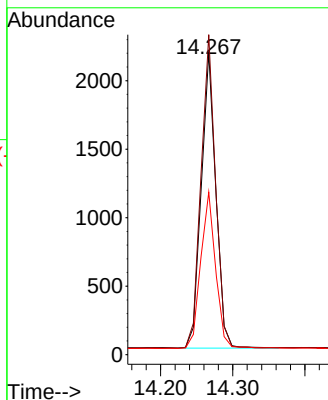
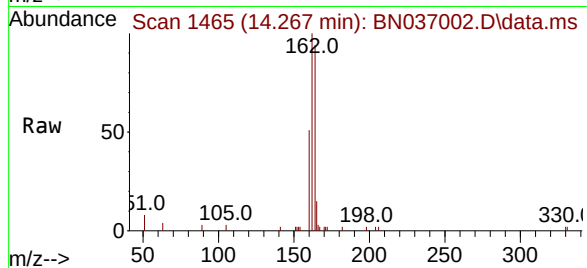




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.267 min Scan# 1465
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

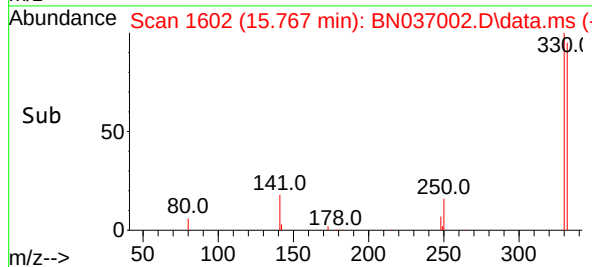
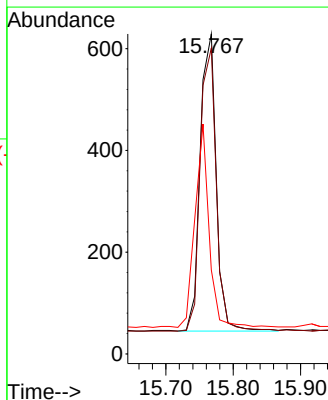
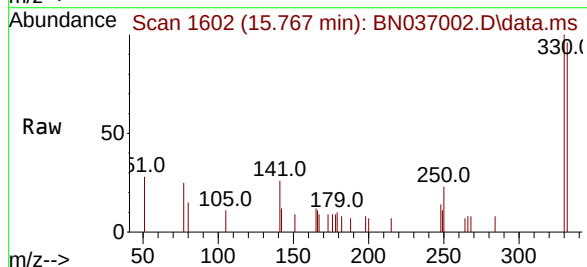
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

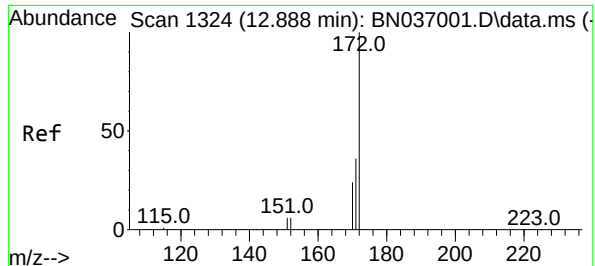
Tgt Ion	164	Resp	3047
Ion	Ratio	Lower	Upper
164	100		
162	105.9	84.2	126.4
160	53.8	42.6	63.8



#14
2,4,6-Tribromophenol
Concen: 0.726 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion	330	Resp	972
Ion	Ratio	Lower	Upper
330	100		
332	96.1	73.8	110.8
141	60.8	43.9	65.9

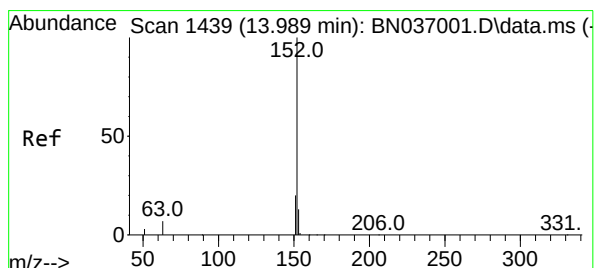
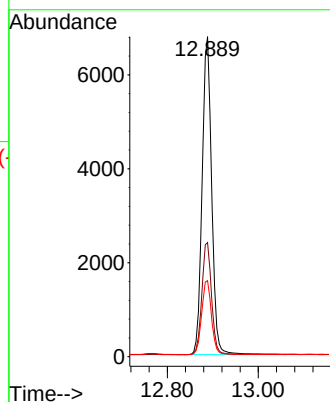
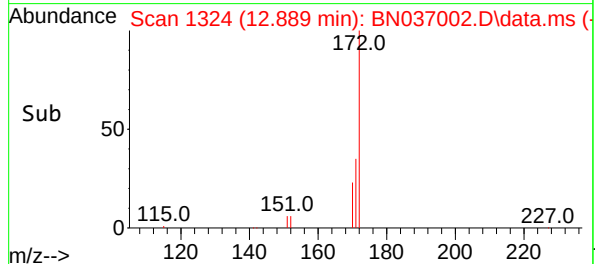
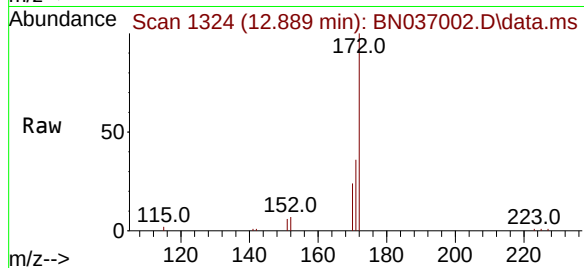




#15
2-Fluorobiphenyl
Concen: 0.787 ng
RT: 12.889 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

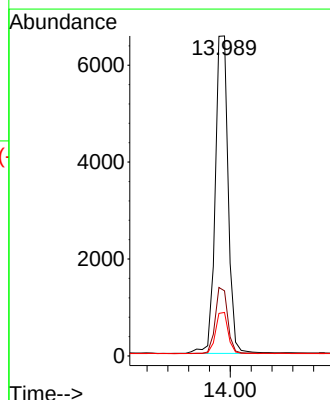
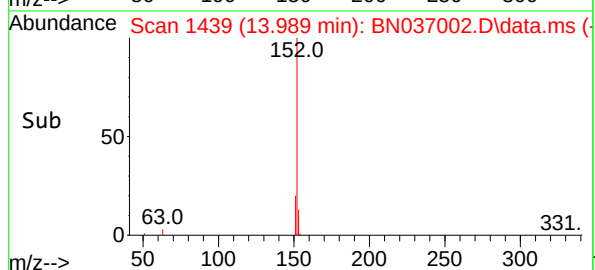
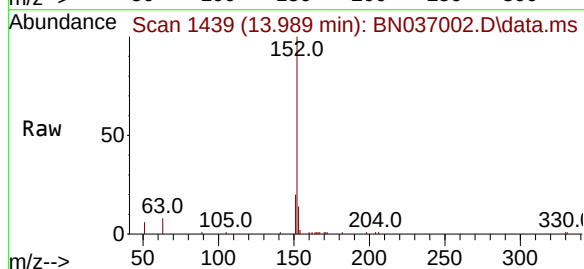
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

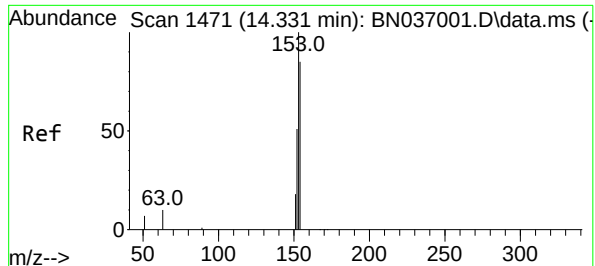
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.2	43.8
170	23.8	20.5	30.7



#16
Acenaphthylene
Concen: 0.760 ng
RT: 13.989 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.1	24.1
153	12.8	10.5	15.7





#17

Acenaphthene

Concen: 0.765 ng

RT: 14.331 min Scan# 1471

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

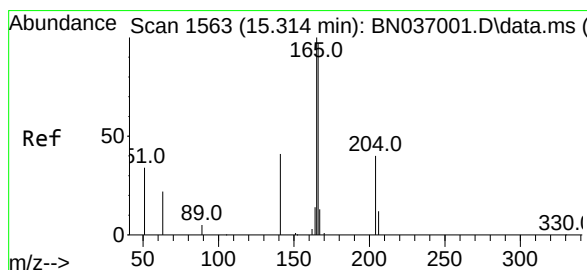
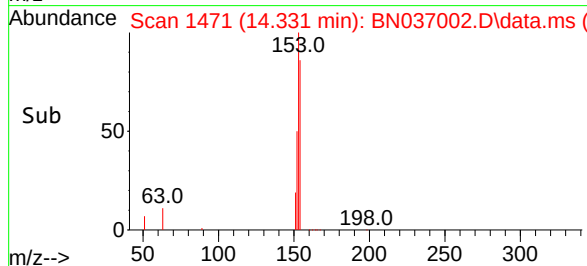
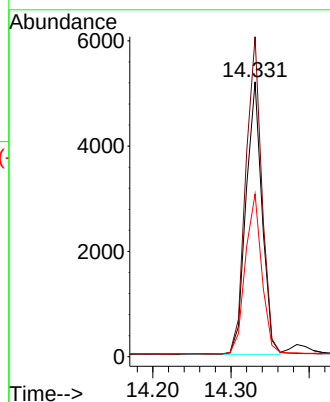
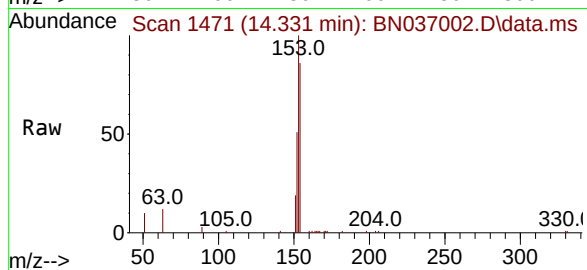
Tgt Ion:154 Resp: 7416

Ion Ratio Lower Upper

154 100

153 116.5 94.2 141.4

152 60.4 49.4 74.0



#18

Fluorene

Concen: 0.772 ng

RT: 15.325 min Scan# 1564

Delta R.T. 0.011 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

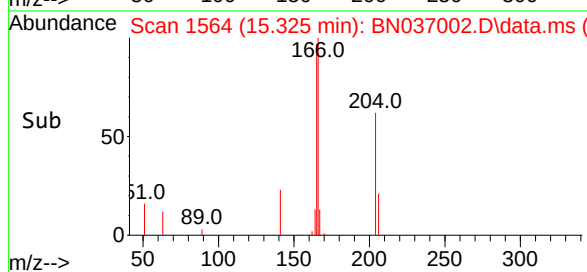
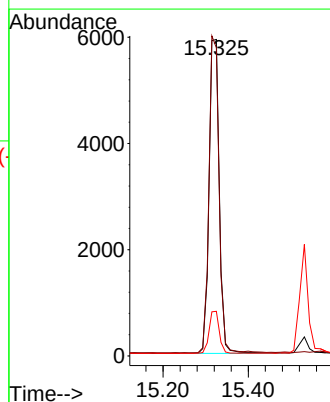
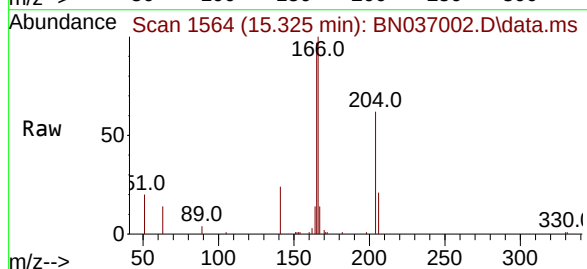
Tgt Ion:166 Resp: 9818

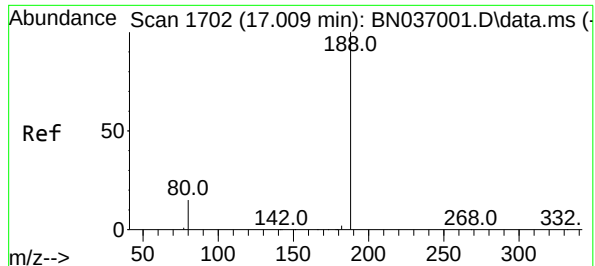
Ion Ratio Lower Upper

166 100

165 99.4 80.6 120.8

167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

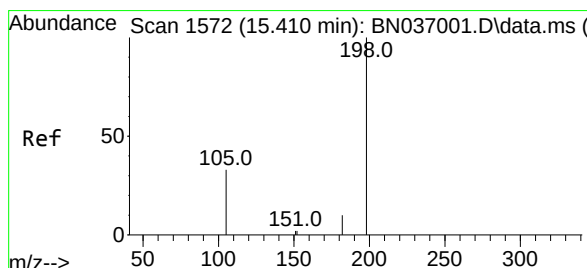
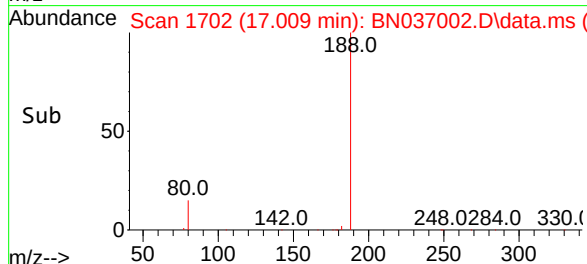
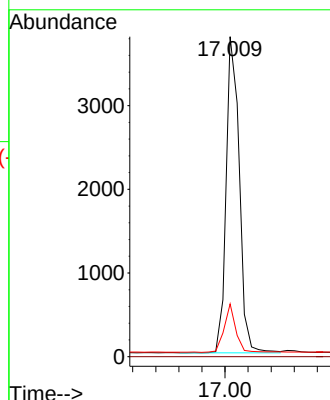
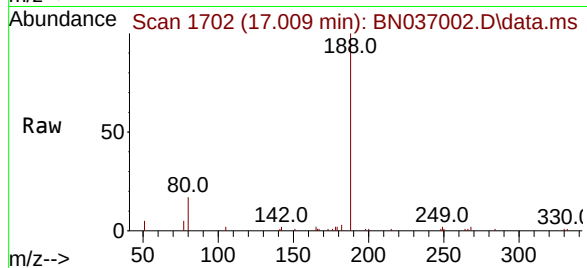
Tgt Ion:188 Resp: 5996

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.5 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 0.760 ng

RT: 15.400 min Scan# 1571

Delta R.T. -0.010 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

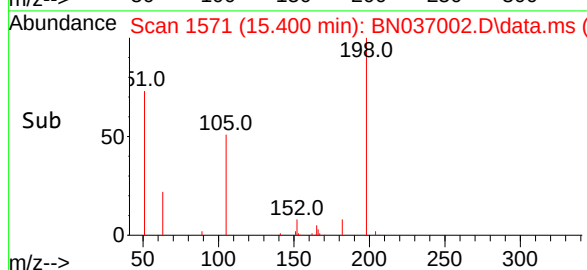
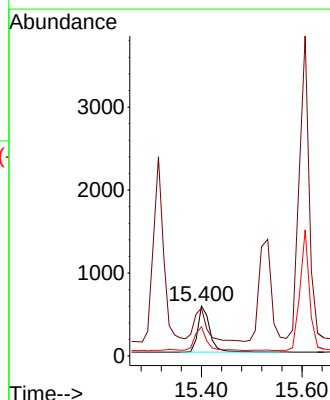
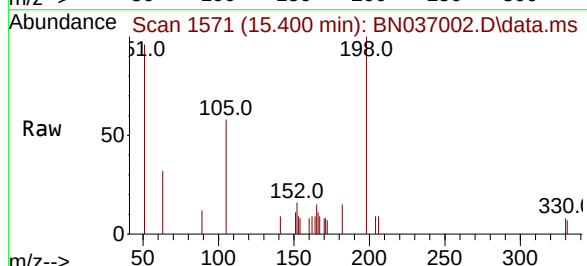
Tgt Ion:198 Resp: 946

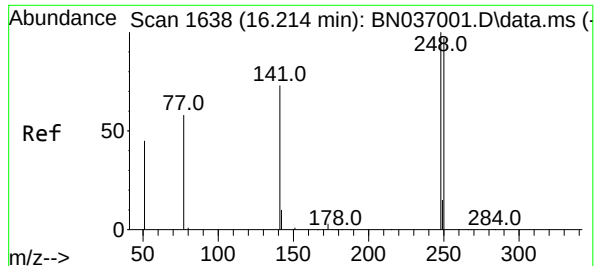
Ion Ratio Lower Upper

198 100

51 95.8 87.8 131.6

105 58.4 44.2 66.4

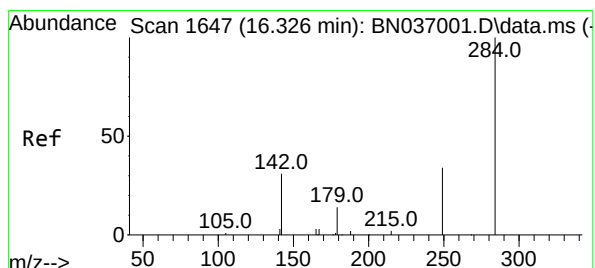
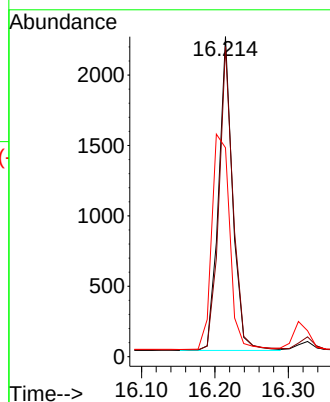
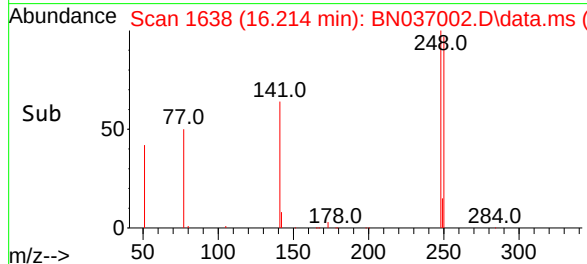
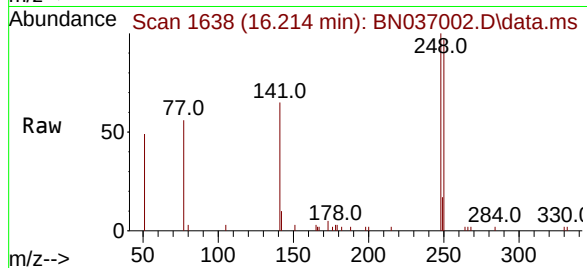




#21
4-Bromophenyl-phenylether
Concen: 0.782 ng
RT: 16.214 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

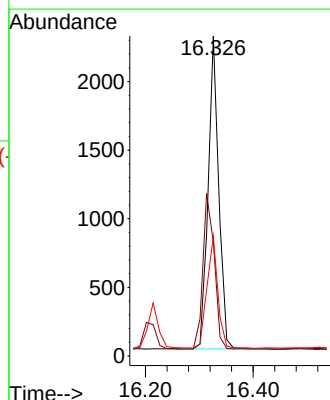
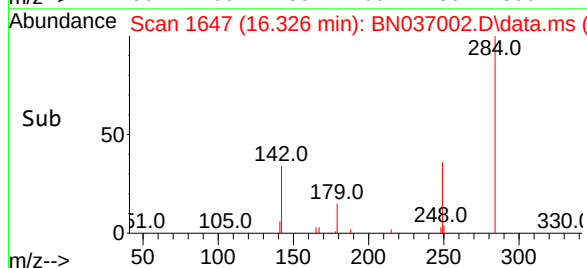
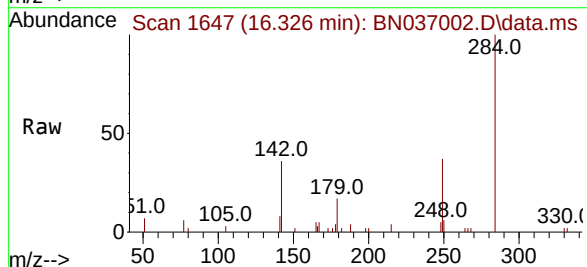
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

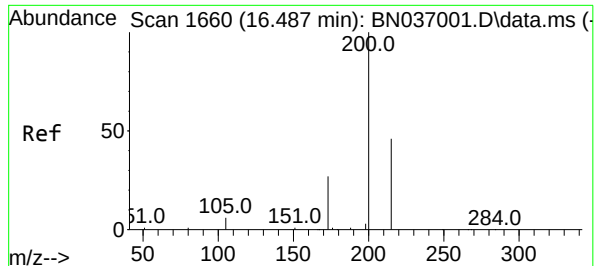
Tgt Ion	Ratio	Lower	Upper
248	100		
250	96.8	78.1	117.1
141	65.3	59.7	89.5



#22
Hexachlorobenzene
Concen: 0.766 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion	Ratio	Lower	Upper
284	100		
142	54.2	41.2	61.8
249	36.8	28.7	43.1

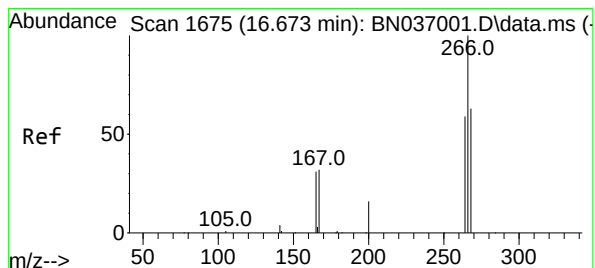
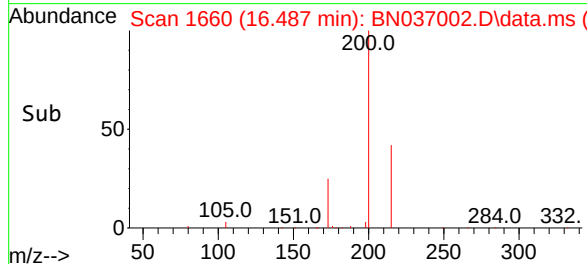
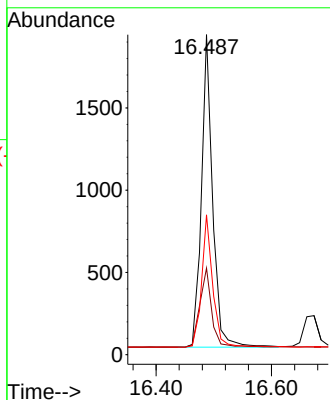
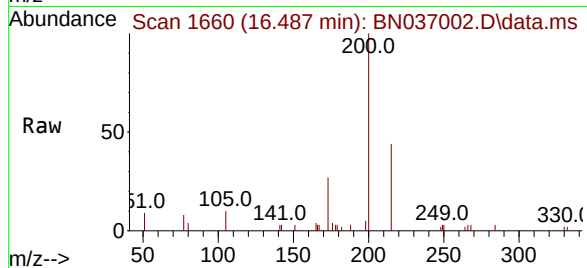




#23
Atrazine
Concen: 0.775 ng
RT: 16.487 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

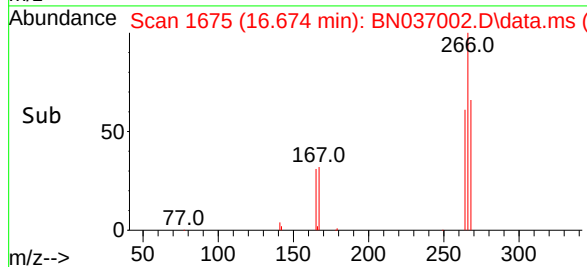
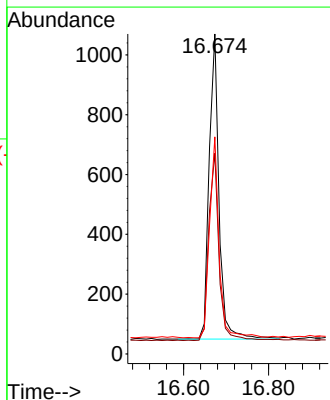
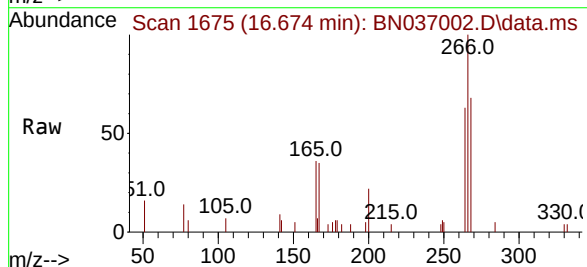
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

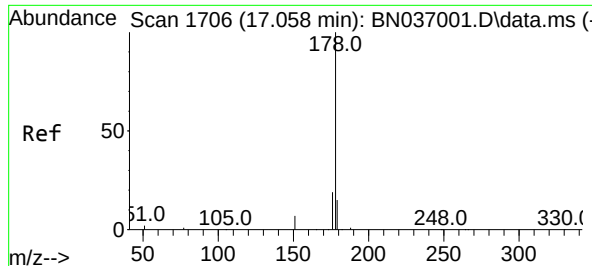
Tgt Ion	Ratio	Lower	Upper
200	100		
173	27.0	25.2	37.8
215	43.7	39.3	58.9



#24
Pentachlorophenol
Concen: 0.730 ng
RT: 16.674 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion	Ratio	Lower	Upper
266	100		
264	63.6	47.9	71.9
268	63.6	50.0	75.0

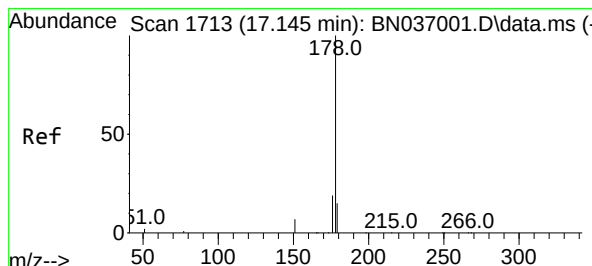
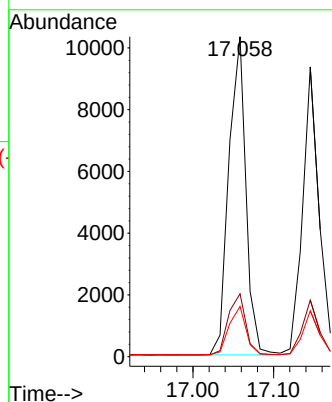
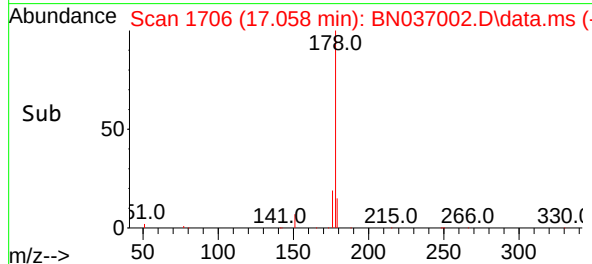
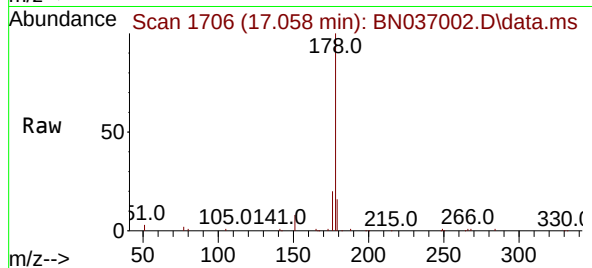




#25
Phenanthrene
Concen: 0.773 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

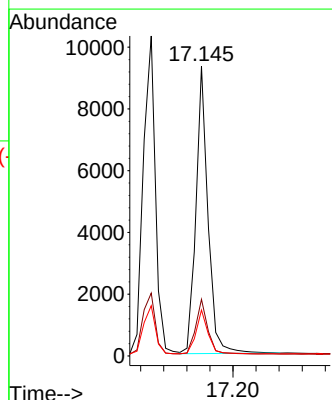
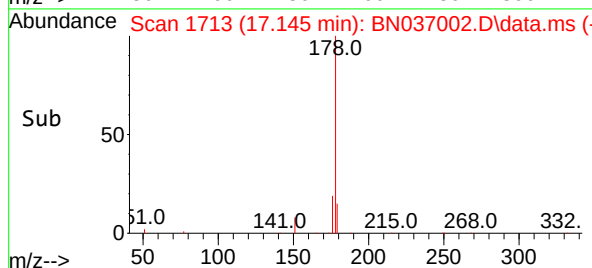
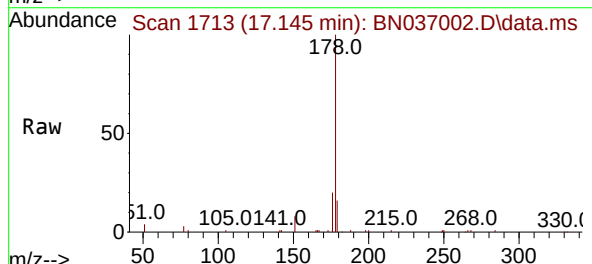
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

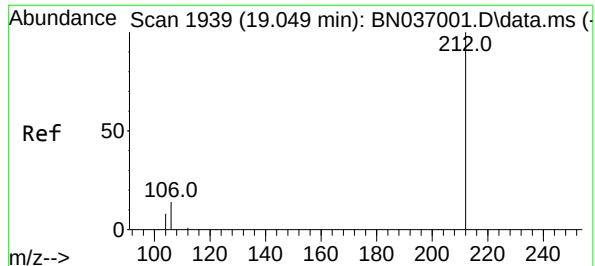
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.7	23.5
179	15.2	12.2	18.2



#26
Anthracene
Concen: 0.760 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.0	22.6
179	15.1	12.3	18.5





#27

Fluoranthene-d10

Concen: 0.760 ng

RT: 19.054 min Scan# 1940

Delta R.T. 0.005 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

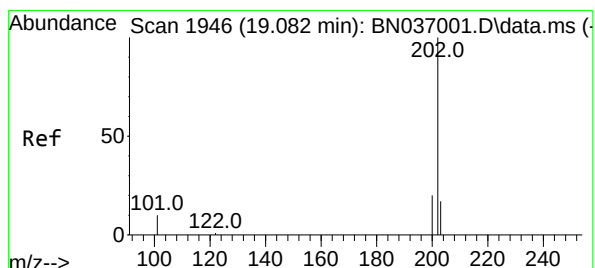
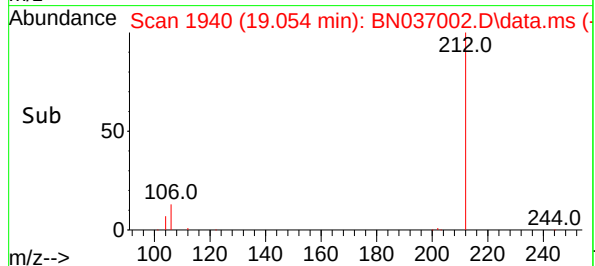
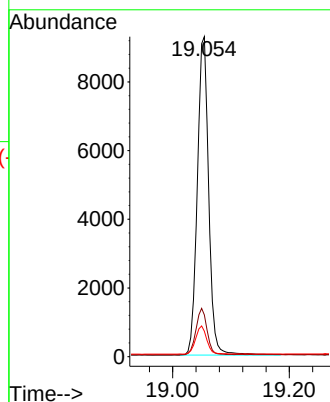
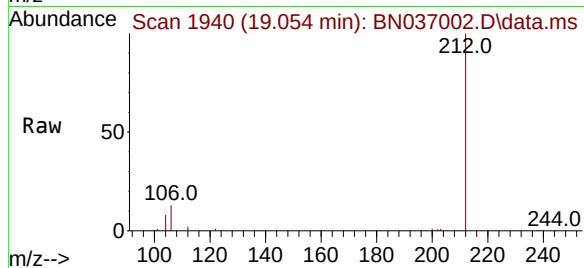
Tgt Ion:212 Resp: 12492

Ion Ratio Lower Upper

212 100

106 14.4 11.3 16.9

104 8.7 6.7 10.1



#28

Fluoranthene

Concen: 0.766 ng

RT: 19.082 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

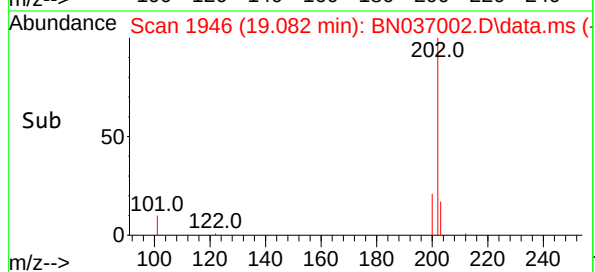
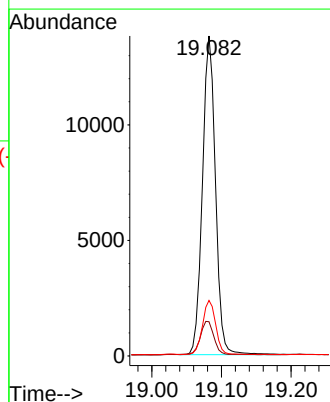
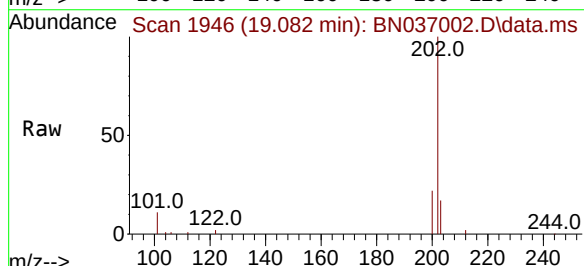
Tgt Ion:202 Resp: 17938

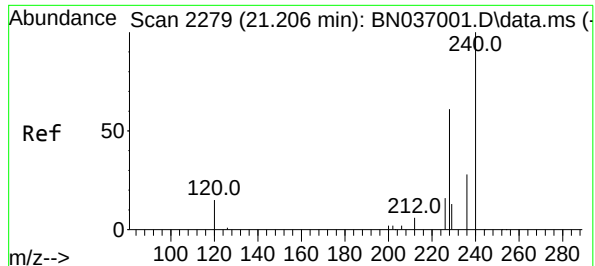
Ion Ratio Lower Upper

202 100

101 11.3 8.9 13.3

203 17.2 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.207 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

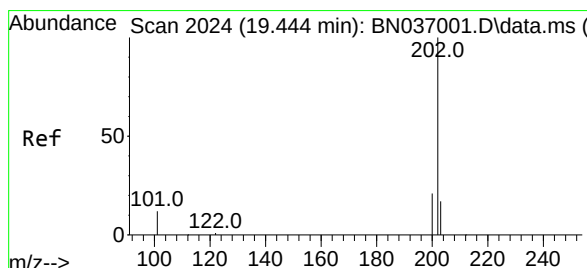
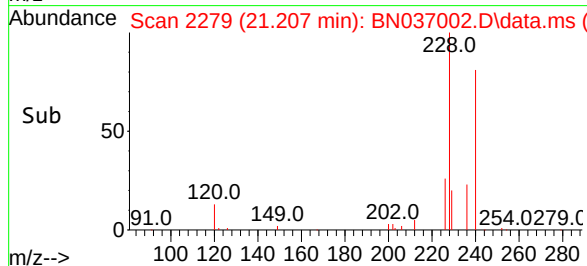
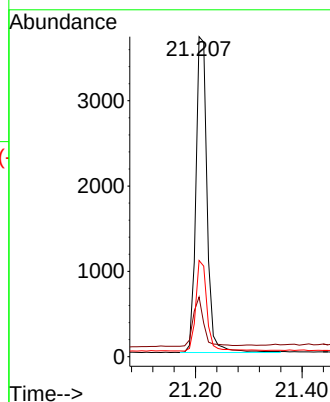
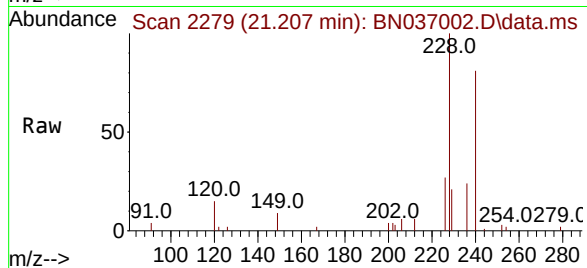
Tgt Ion:240 Resp: 5456

Ion Ratio Lower Upper

240 100

120 18.6 15.1 22.7

236 30.0 24.0 36.0



#30

Pyrene

Concen: 0.774 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

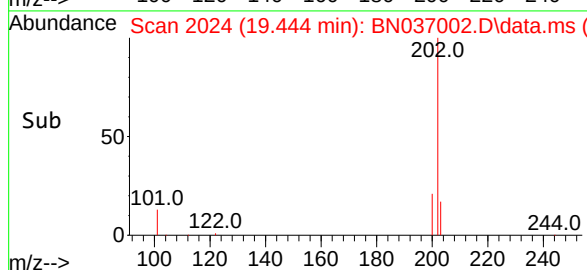
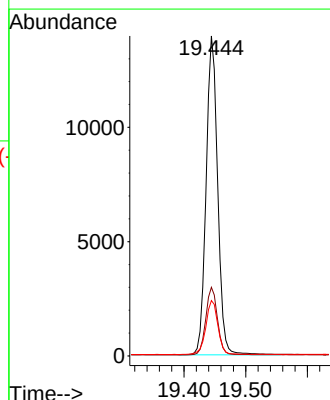
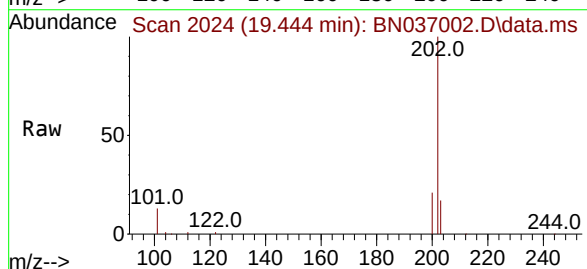
Tgt Ion:202 Resp: 18075

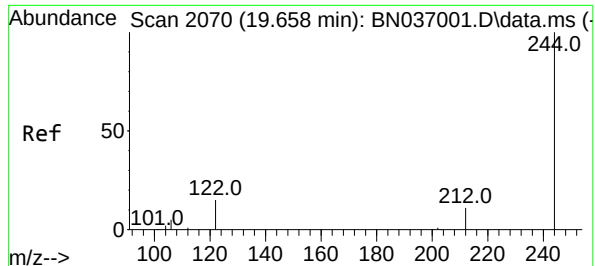
Ion Ratio Lower Upper

202 100

200 21.3 17.1 25.7

203 17.6 14.2 21.4

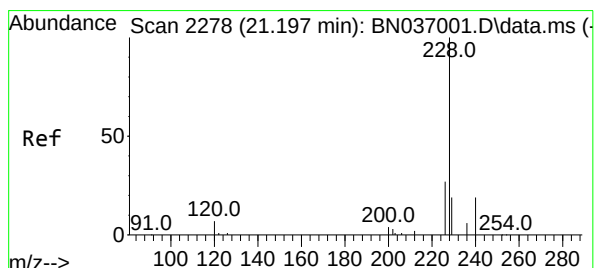
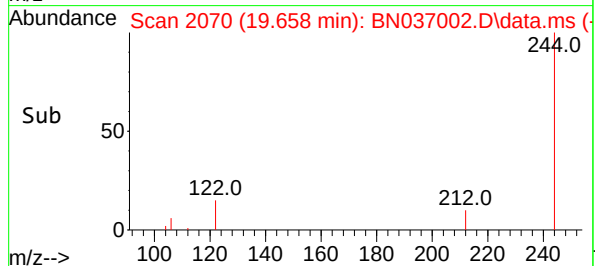
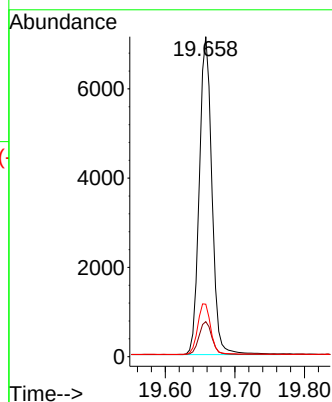
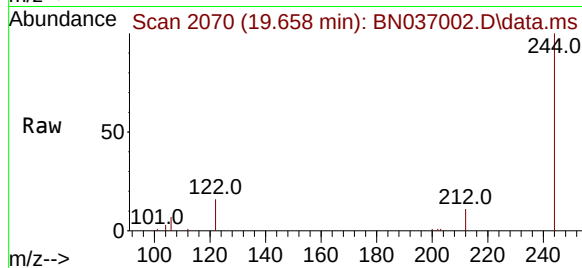




#31
Terphenyl-d14
Concen: 0.769 ng
RT: 19.658 min Scan# 2070
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

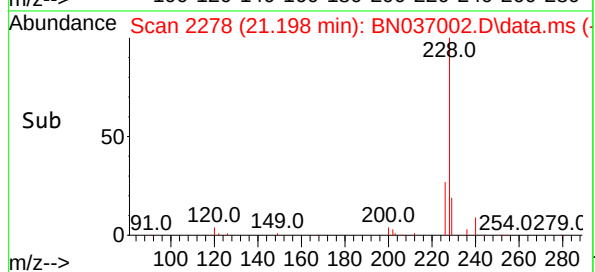
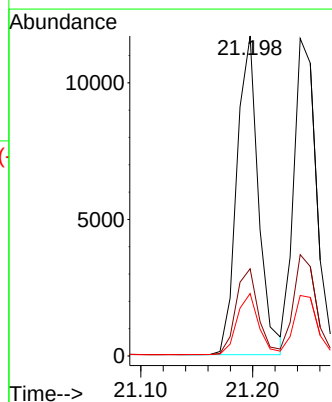
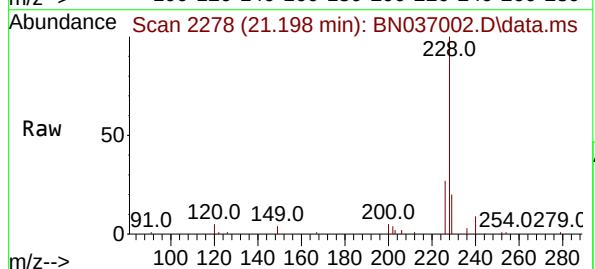
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

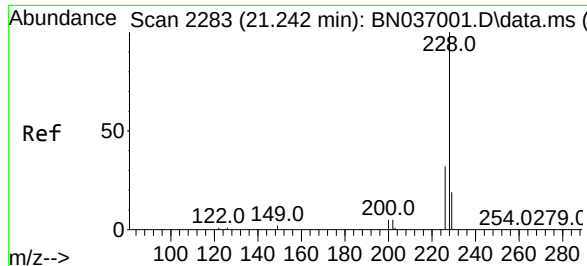
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.0	9.7	14.5
122	16.4	13.4	20.0



#32
Benzo(a)anthracene
Concen: 0.764 ng
RT: 21.198 min Scan# 2278
Delta R.T. 0.000 min
Lab File: BN037002.D
Acq: 13 May 2025 19:29

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.2	33.4
229	19.5	16.0	24.0





#33

Chrysene

Concen: 0.769 ng

RT: 21.242 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

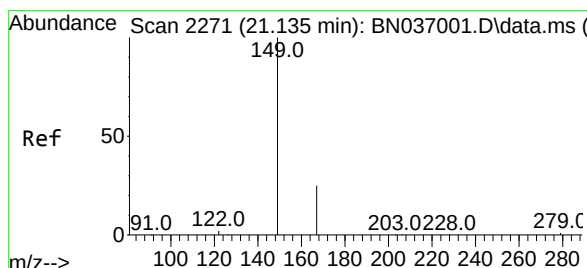
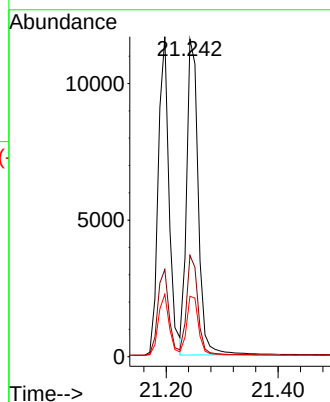
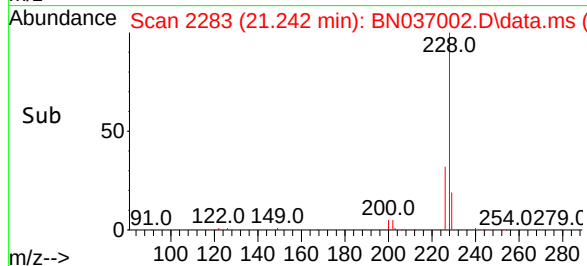
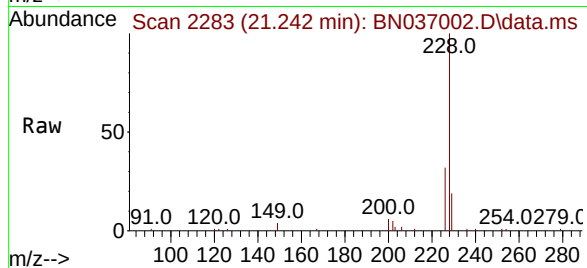
Tgt Ion:228 Resp: 16717

Ion Ratio Lower Upper

228 100

226 31.9 26.3 39.5

229 19.1 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.737 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

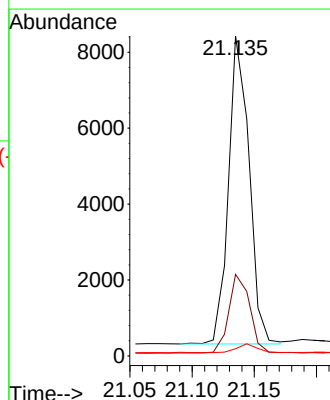
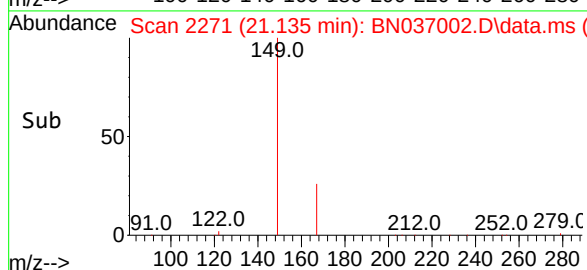
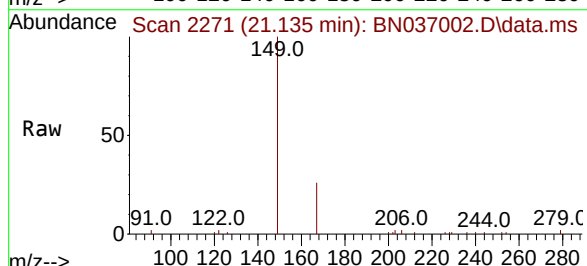
Tgt Ion:149 Resp: 9326

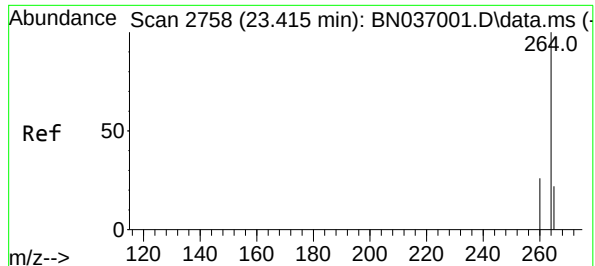
Ion Ratio Lower Upper

149 100

167 26.3 20.6 30.8

279 2.8 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.418 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

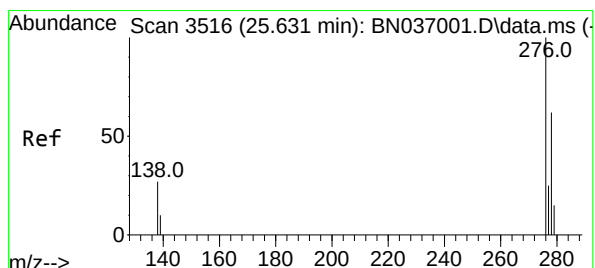
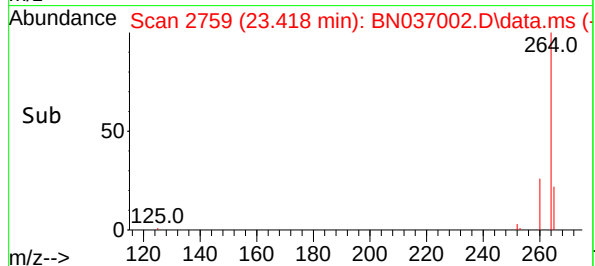
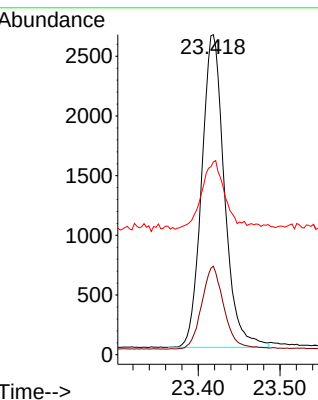
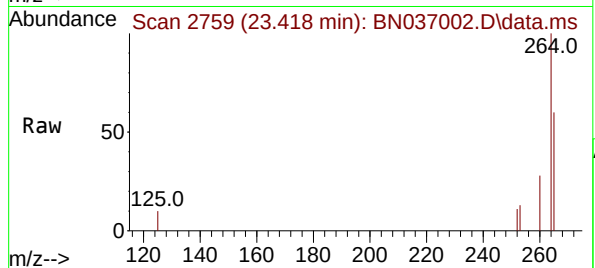
Tgt Ion:264 Resp: 5077

Ion Ratio Lower Upper

264 100

260 27.6 21.9 32.9

265 60.3 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.768 ng

RT: 25.629 min Scan# 3515

Delta R.T. -0.003 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

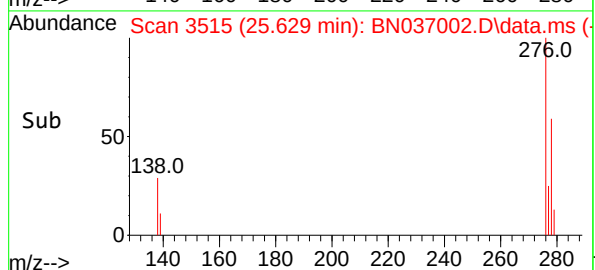
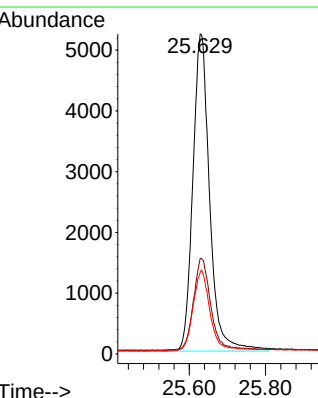
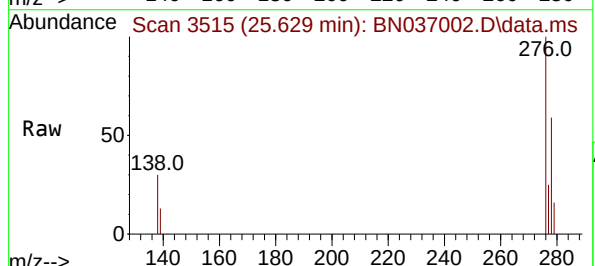
Tgt Ion:276 Resp: 15921

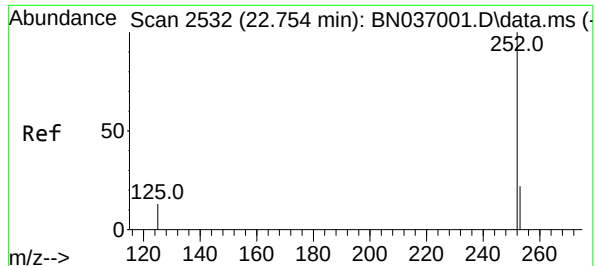
Ion Ratio Lower Upper

276 100

138 29.0 22.7 34.1

277 24.9 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.772 ng

RT: 22.755 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

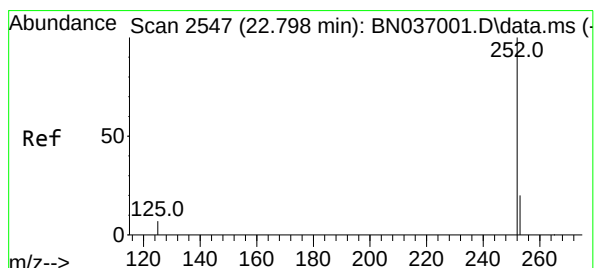
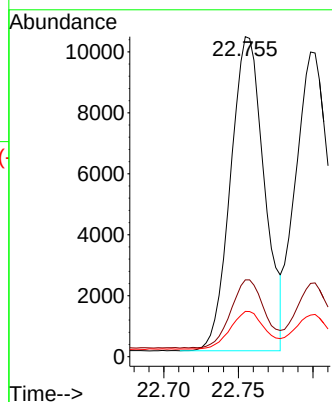
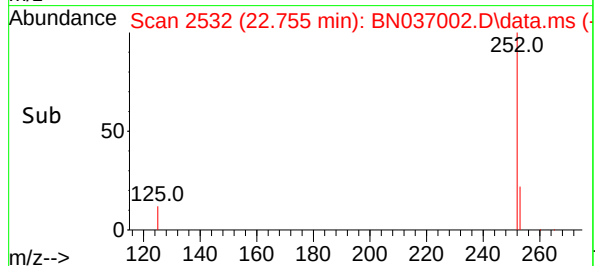
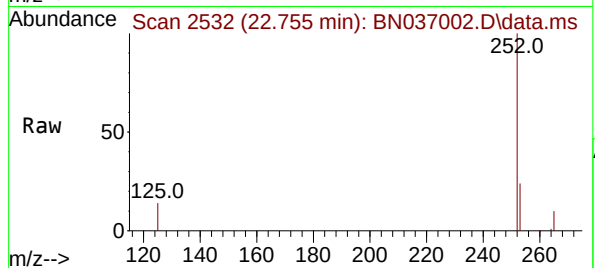
Tgt Ion:252 Resp: 16240

Ion Ratio Lower Upper

252 100

253 24.0 21.8 32.6

125 14.2 14.6 21.8#



#38

Benzo(k)fluoranthene

Concen: 0.782 ng

RT: 22.798 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

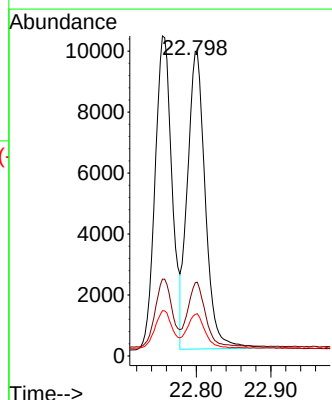
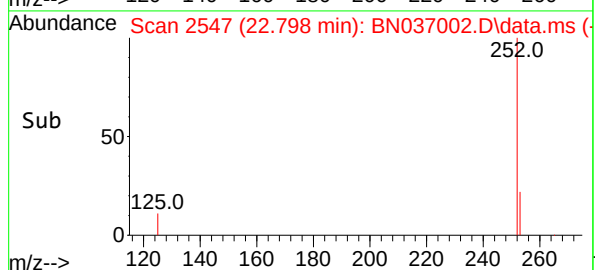
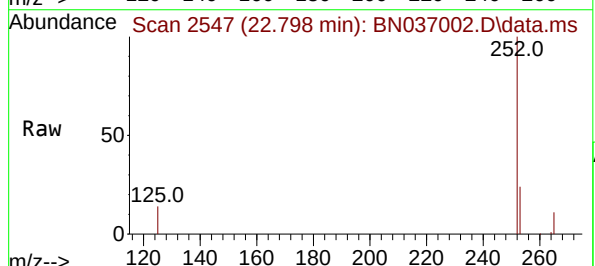
Tgt Ion:252 Resp: 16259

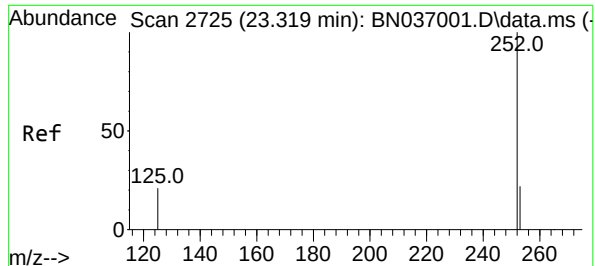
Ion Ratio Lower Upper

252 100

253 24.0 21.4 32.2

125 13.7 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.757 ng

RT: 23.322 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

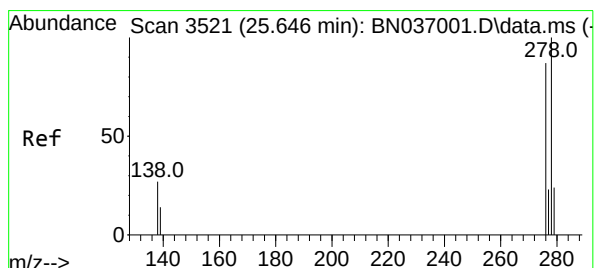
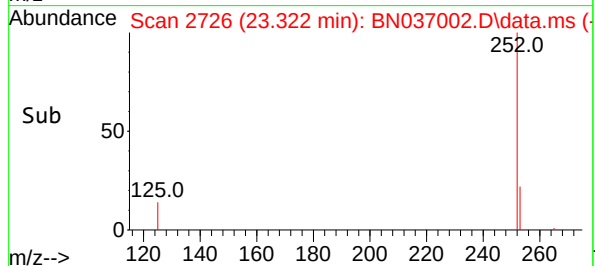
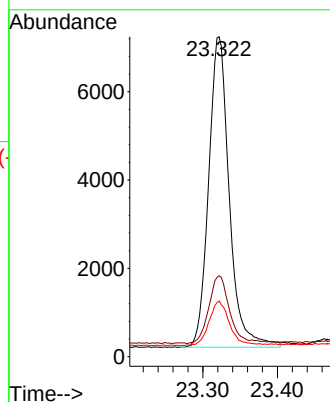
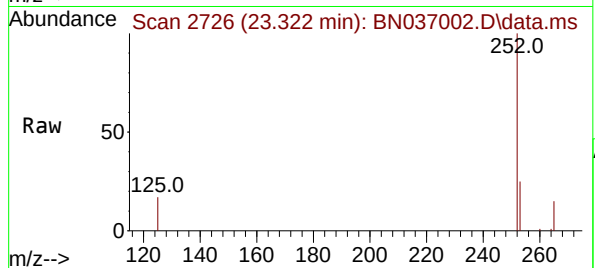
Tgt Ion:252 Resp: 13516

Ion Ratio Lower Upper

252 100

253 25.3 23.8 35.6

125 17.4 21.8 32.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.777 ng

RT: 25.643 min Scan# 3520

Delta R.T. -0.003 min

Lab File: BN037002.D

Acq: 13 May 2025 19:29

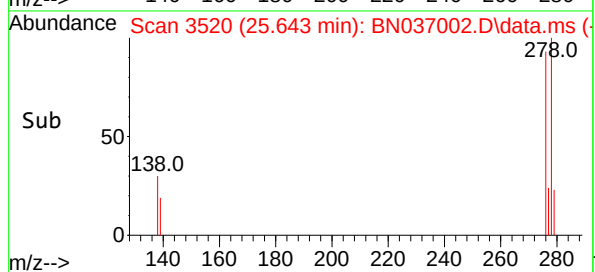
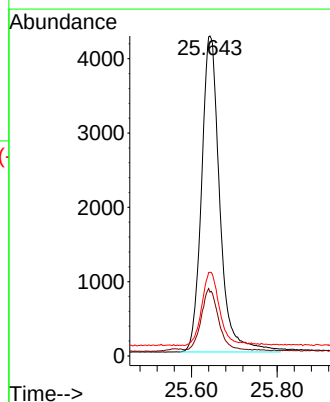
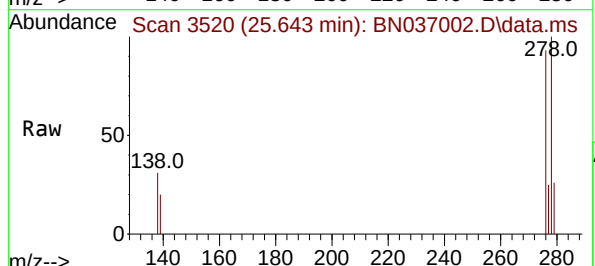
Tgt Ion:278 Resp: 12556

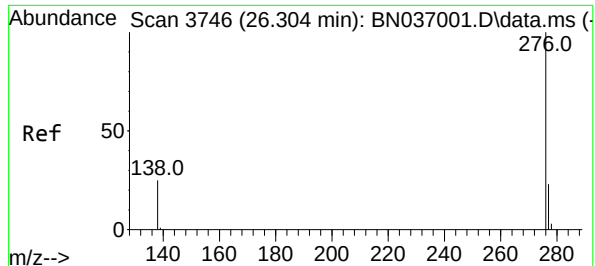
Ion Ratio Lower Upper

278 100

139 20.0 17.4 26.0

279 26.2 24.6 37.0





#41

Benzo(g,h,i)perylene

Concen: 0.769 ng

RT: 26.307 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037002.D

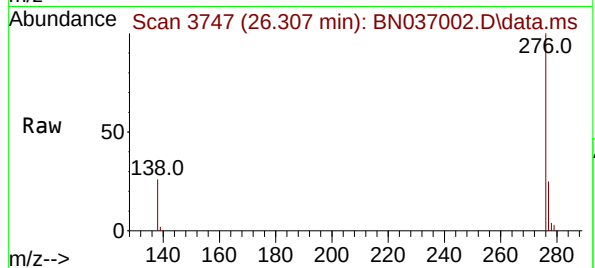
Acq: 13 May 2025 19:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



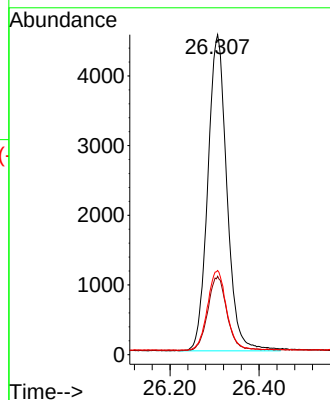
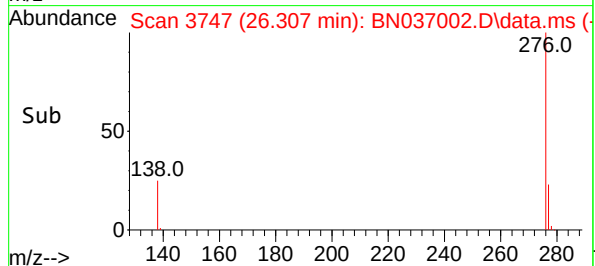
Tgt Ion:276 Resp: 13503

Ion Ratio Lower Upper

276 100

277 24.5 20.2 30.4

138 26.3 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037003.D
 Acq On : 13 May 2025 20:05
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: May 14 11:01:27 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 10:57:36 2025
 Response via : Initial Calibration

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

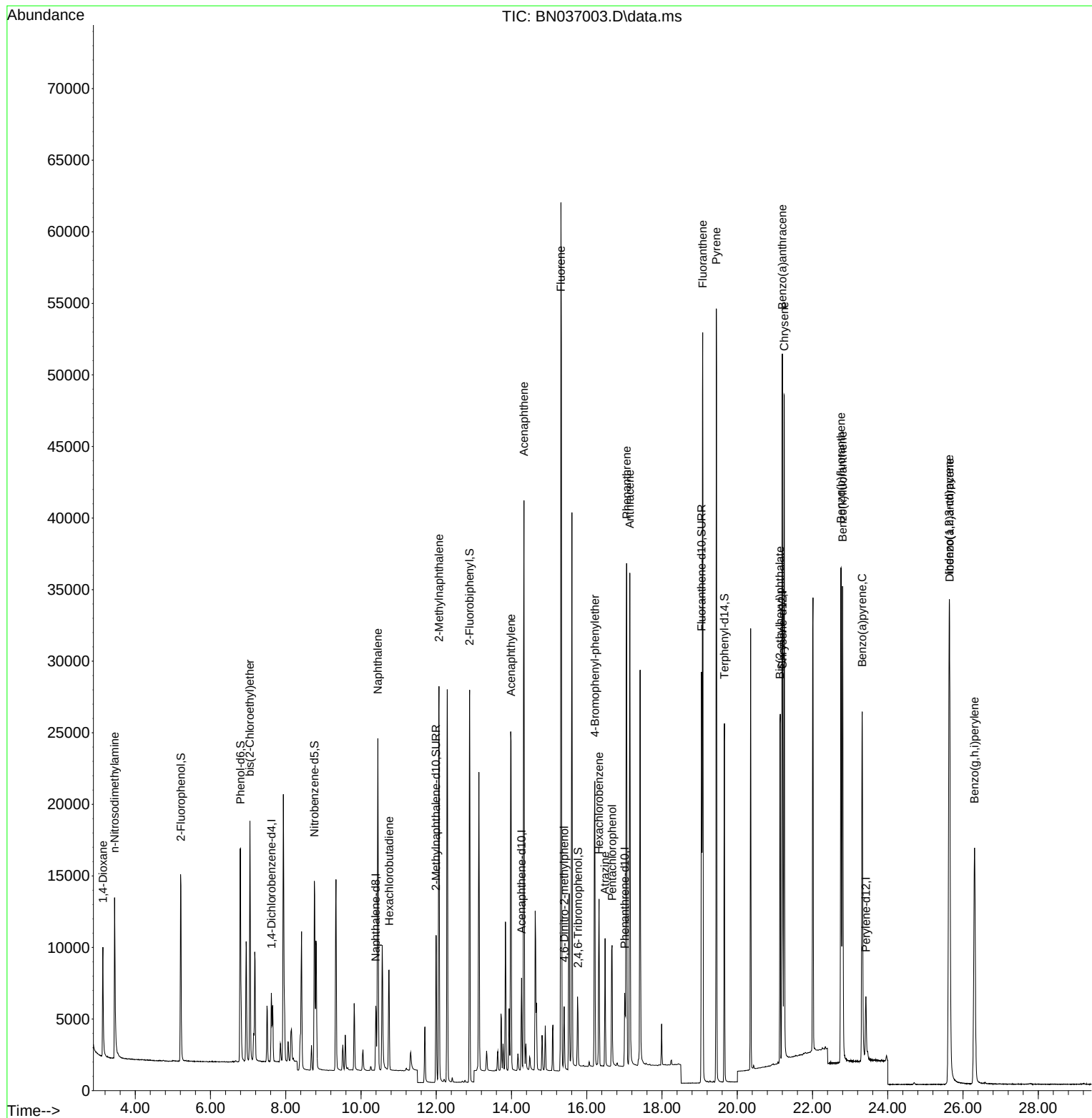
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	2134	0.400	ng	0.00
7) Naphthalene-d8	10.394	136	5654	0.400	ng	#-0.01
13) Acenaphthene-d10	14.267	164	3305	0.400	ng	0.00
19) Phenanthrene-d10	17.009	188	6678	0.400	ng	0.00
29) Chrysene-d12	21.207	240	6288	0.400	ng	0.00
35) Perylene-d12	23.418	264	5747	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	9332	1.669	ng	0.00
5) Phenol-d6	6.795	99	11879	1.698	ng	0.00
8) Nitrobenzene-d5	8.760	82	10231	1.662	ng	-0.01
11) 2-Methylnaphthalene-d10	11.996	152	13642	1.714	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	2461	1.695	ng	0.00
15) 2-Fluorobiphenyl	12.888	172	25480	1.684	ng	0.00
27) Fluoranthene-d10	19.054	212	30804	1.682	ng	0.00
31) Terphenyl-d14	19.658	244	22417	1.667	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.141	88	4389	1.676	ng	96
3) n-Nitrosodimethylamine	3.451	42	9172	1.630	ng	# 92
6) bis(2-Chloroethyl)ether	7.048	93	10588	1.645	ng	99
9) Naphthalene	10.447	128	27723	1.659	ng	97
10) Hexachlorobutadiene	10.746	225	5780	1.648	ng	# 99
12) 2-Methylnaphthalene	12.072	142	18399	1.712	ng	99
16) Acenaphthylene	13.989	152	27375	1.702	ng	100
17) Acenaphthene	14.331	154	17846	1.698	ng	98
18) Fluorene	15.314	166	23515	1.705	ng	100
20) 4,6-Dinitro-2-methylph...	15.400	198	2713	1.748	ng	# 73
21) 4-Bromophenyl-phenylether	16.214	248	7008	1.661	ng	94
22) Hexachlorobenzene	16.326	284	7515	1.664	ng	99
23) Atrazine	16.487	200	6336	1.722	ng	92
24) Pentachlorophenol	16.674	266	4256	1.697	ng	98
25) Phenanthrene	17.058	178	36506	1.673	ng	100
26) Anthracene	17.145	178	33908	1.707	ng	99
28) Fluoranthene	19.082	202	44613	1.711	ng	100
30) Pyrene	19.444	202	45015	1.674	ng	100
32) Benzo(a)anthracene	21.198	228	40103	1.694	ng	99
33) Chrysene	21.251	228	41576	1.660	ng	96
34) Bis(2-ethylhexyl)phtha...	21.135	149	23656	1.621	ng	99
36) Indeno(1,2,3-cd)pyrene	25.631	276	38771	1.652	ng	98
37) Benzo(b)fluoranthene	22.757	252	40209	1.688	ng	# 90
38) Benzo(k)fluoranthene	22.798	252	40699	1.729	ng	# 91
39) Benzo(a)pyrene	23.322	252	34149	1.689	ng	# 82
40) Dibenzo(a,h)anthracene	25.643	278	30810	1.685	ng	# 91
41) Benzo(g,h,i)perylene	26.307	276	32256	1.624	ng	97

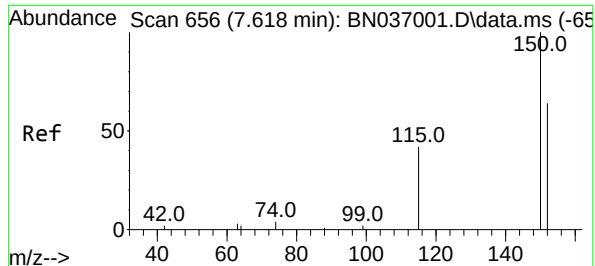
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037003.D
Acq On : 13 May 2025 20:05
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

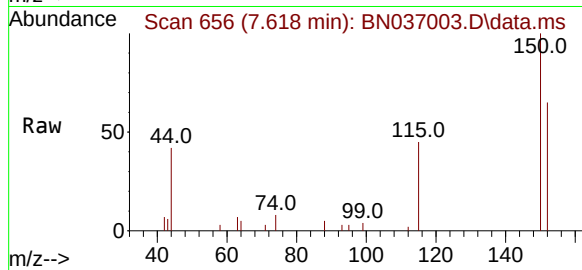
Quant Time: May 14 11:01:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration



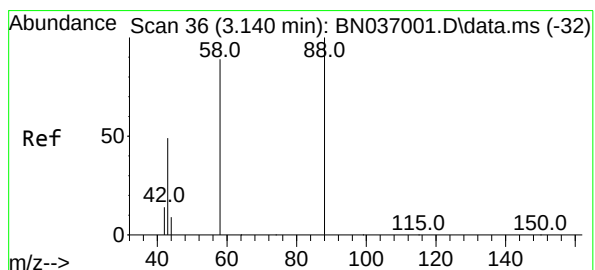
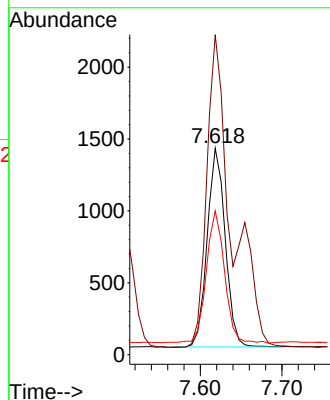
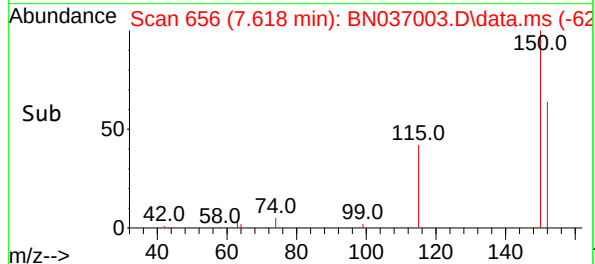


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

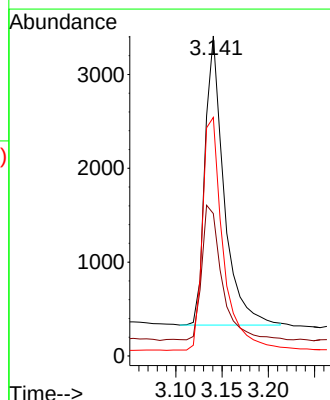
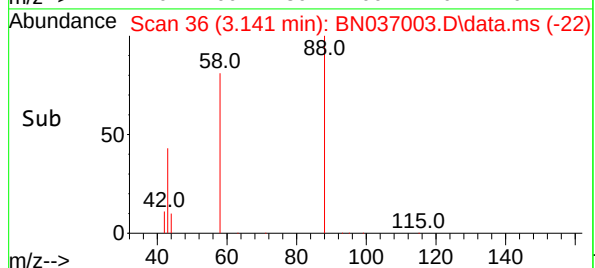
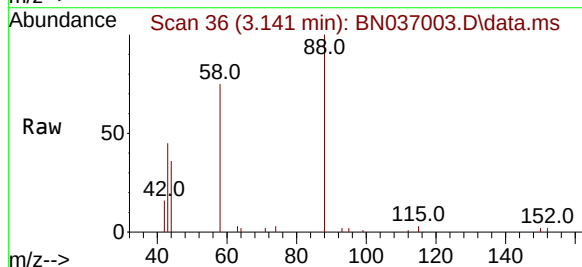


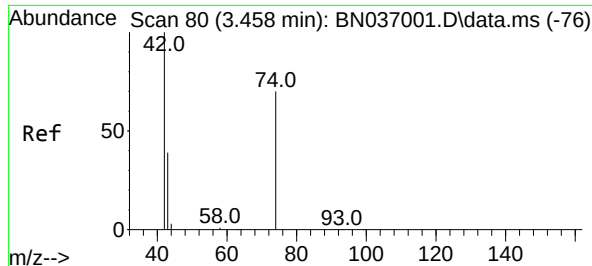
Tgt Ion:152 Resp: 2134
Ion Ratio Lower Upper
152 100
150 155.0 123.9 185.9
115 69.6 55.8 83.8



#2
1,4-Dioxane
Concen: 1.676 ng
RT: 3.141 min Scan# 36
Delta R.T. 0.001 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion: 88 Resp: 4389
Ion Ratio Lower Upper
88 100
43 51.0 37.4 56.0
58 87.9 68.8 103.2

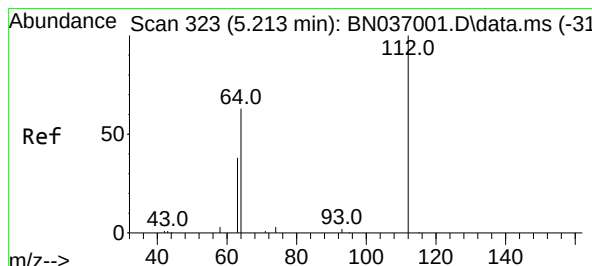
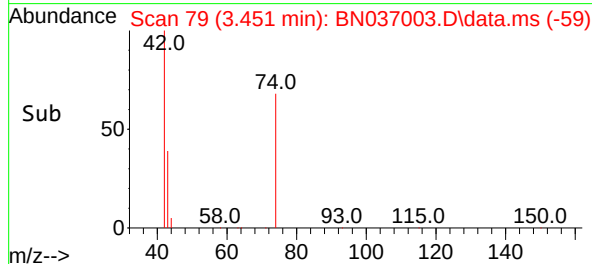
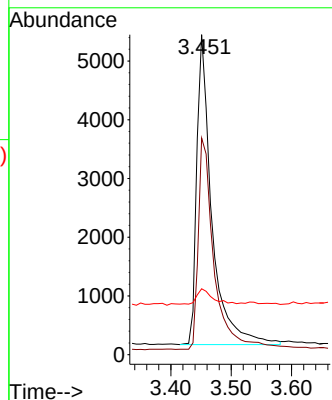
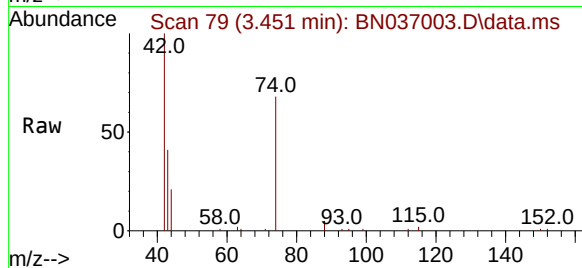




#3
n-Nitrosodimethylamine
Concen: 1.630 ng
RT: 3.451 min Scan# 79
Delta R.T. -0.007 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

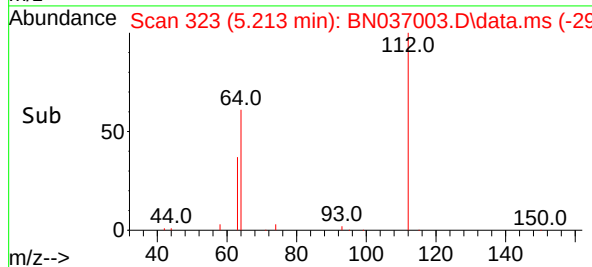
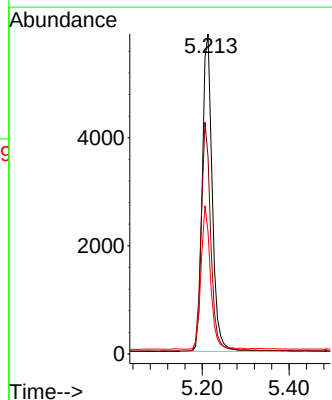
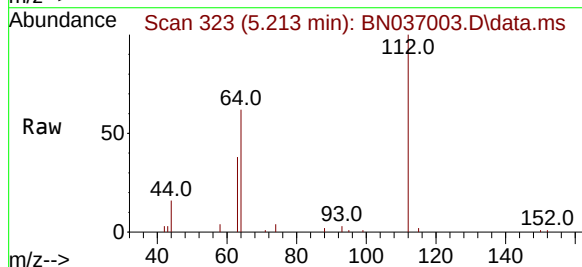
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

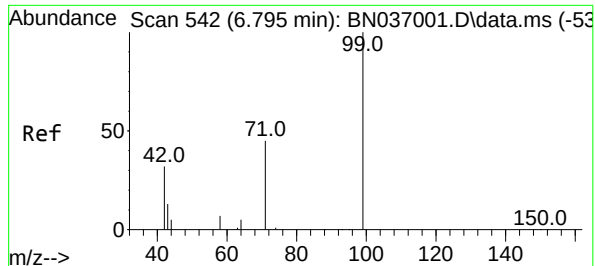
Tgt Ion: 42 Resp: 9172
Ion Ratio Lower Upper
42 100
74 71.1 59.8 89.6
44 5.1 11.9 17.9#



#4
2-Fluorophenol
Concen: 1.669 ng
RT: 5.213 min Scan# 323
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion: 112 Resp: 9332
Ion Ratio Lower Upper
112 100
64 69.9 55.7 83.5
63 43.4 34.6 51.8

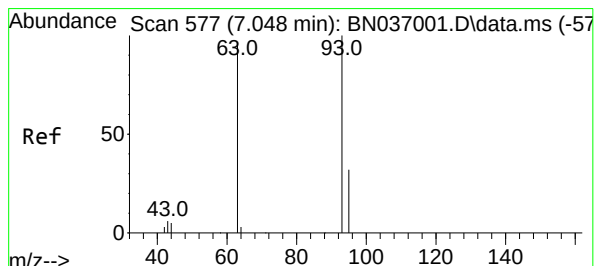
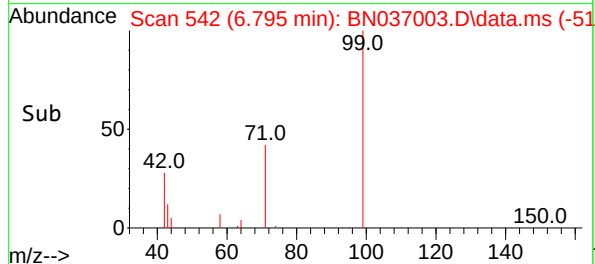
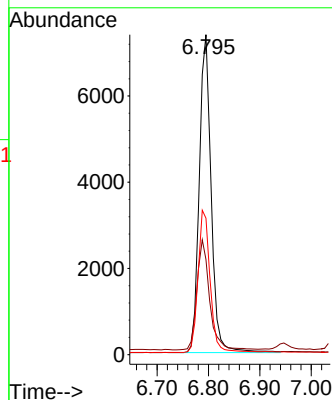
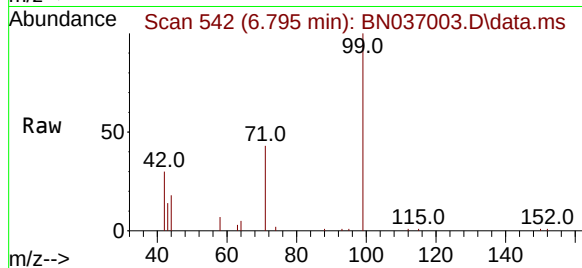




#5
Phenol-d6
Concen: 1.698 ng
RT: 6.795 min Scan# 542
Delta R.T. -0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

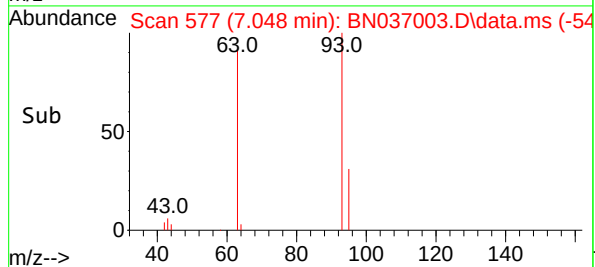
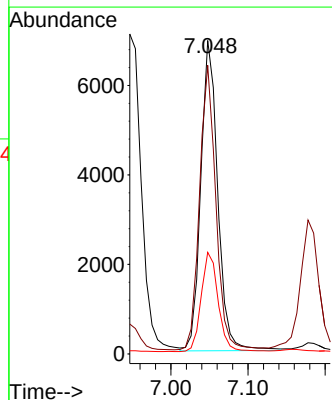
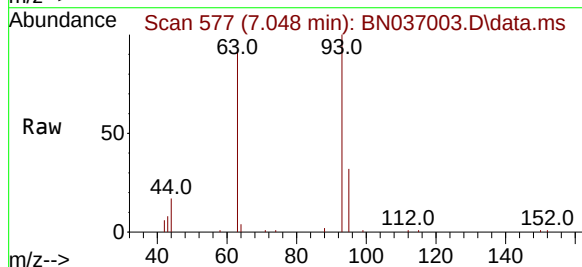
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

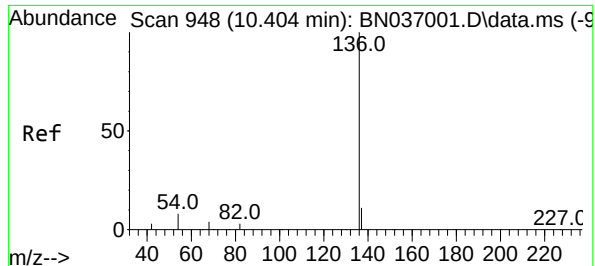
Tgt Ion: 99 Resp: 11879
Ion Ratio Lower Upper
99 100
42 36.8 29.3 43.9
71 45.6 35.7 53.5



#6
bis(2-Chloroethyl)ether
Concen: 1.645 ng
RT: 7.048 min Scan# 577
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion: 93 Resp: 10588
Ion Ratio Lower Upper
93 100
63 87.8 70.1 105.1
95 32.0 26.2 39.2

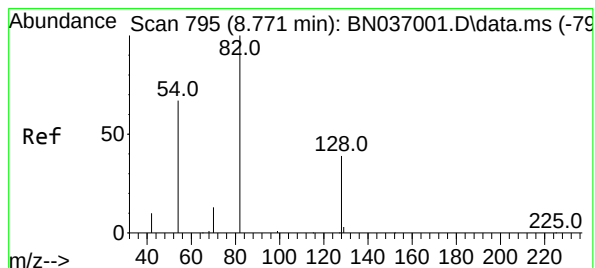
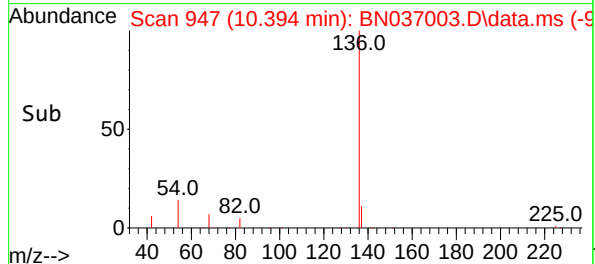
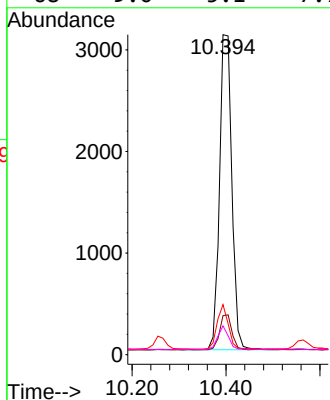
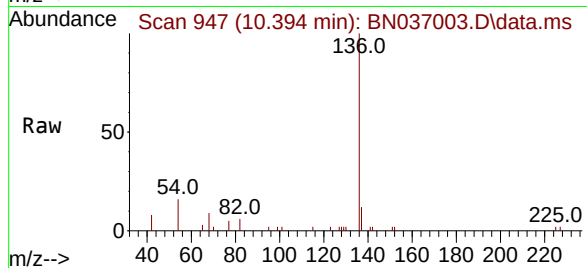




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.394 min Scan# 94
Delta R.T. -0.011 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

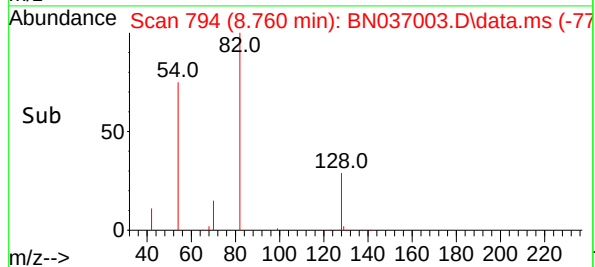
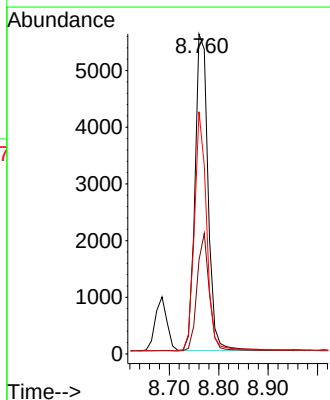
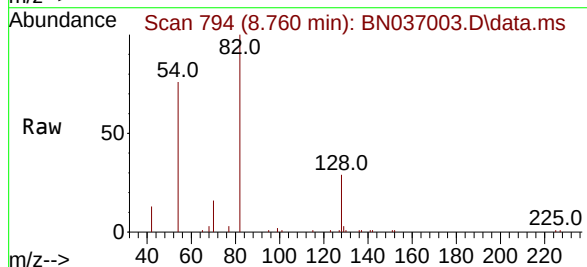
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

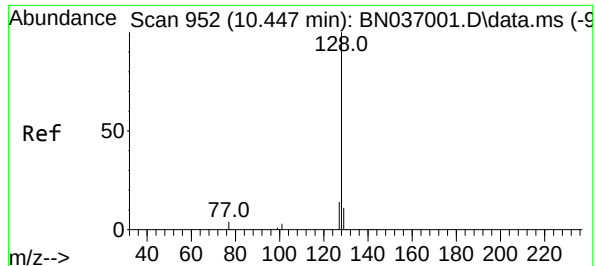
Tgt Ion:	136	Resp:	5654
Ion	Ratio	Lower	Upper
136	100		
137	12.2	10.4	15.6
54	15.7	8.5	12.7#
68	9.0	5.1	7.7#



#8
Nitrobenzene-d5
Concen: 1.662 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:	82	Resp:	10231
Ion	Ratio	Lower	Upper
82	100		
128	29.3	34.0	51.0#
54	75.7	55.0	82.4

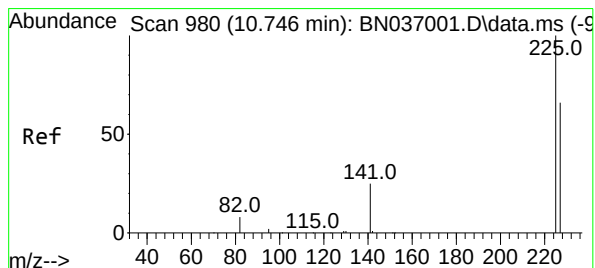
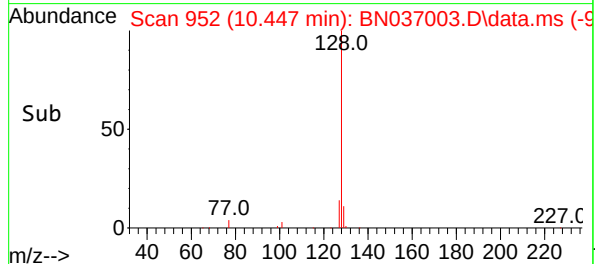
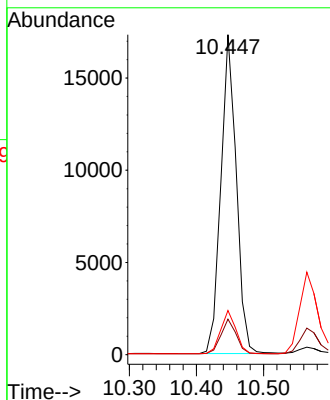
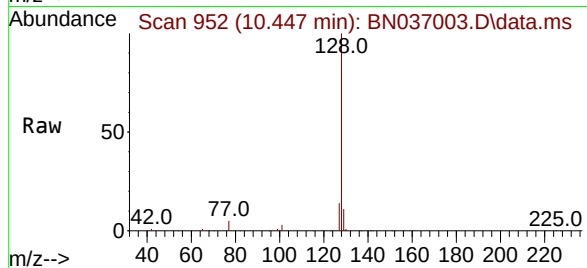




#9
Naphthalene
Concen: 1.659 ng
RT: 10.447 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

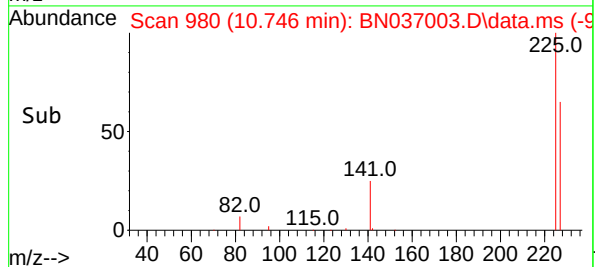
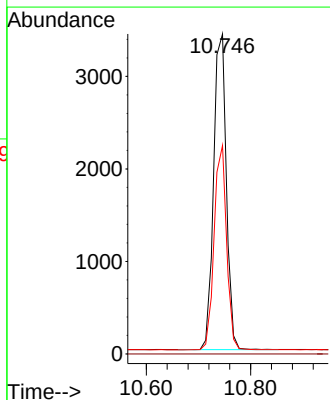
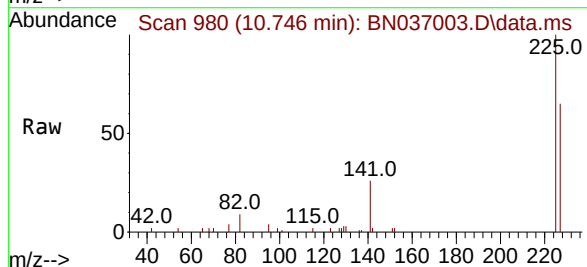
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

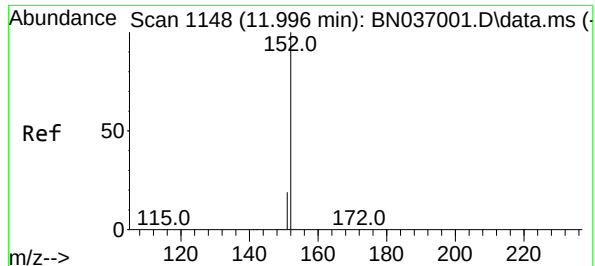
Tgt Ion:128 Resp: 27723
Ion Ratio Lower Upper
128 100
129 11.1 9.7 14.5
127 13.8 12.4 18.6



#10
Hexachlorobutadiene
Concen: 1.648 ng
RT: 10.746 min Scan# 980
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:225 Resp: 5780
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.1 50.9 76.3

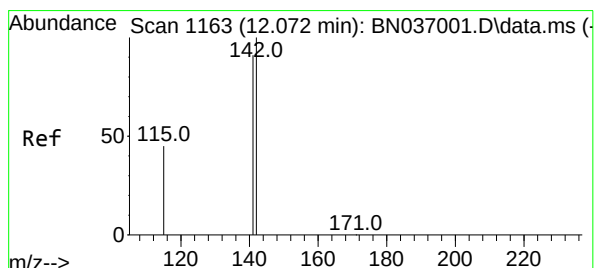
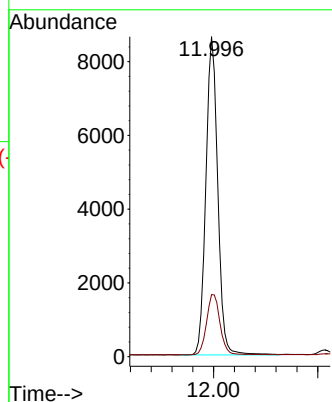
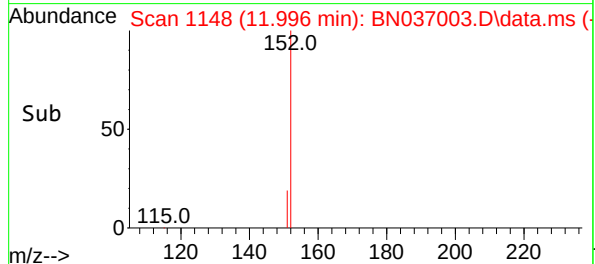
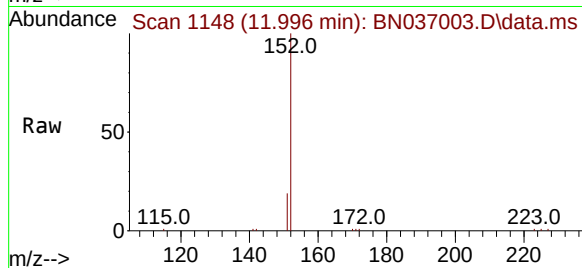




#11
2-Methylnaphthalene-d10
Concen: 1.714 ng
RT: 11.996 min Scan# 1148
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

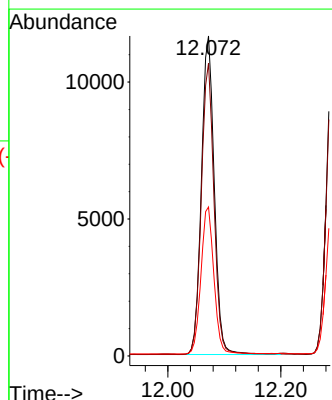
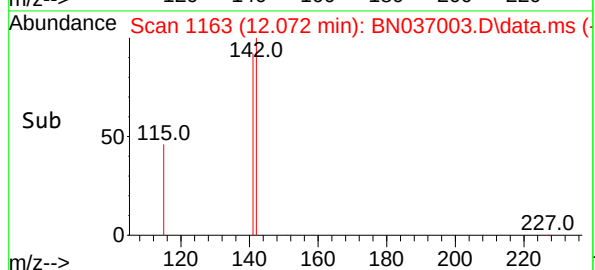
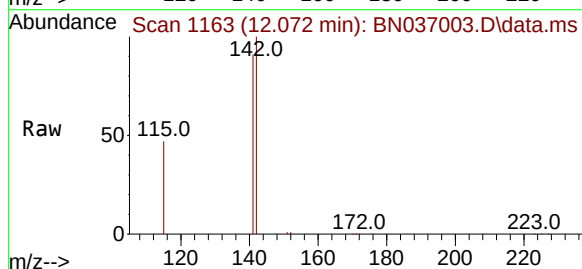
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

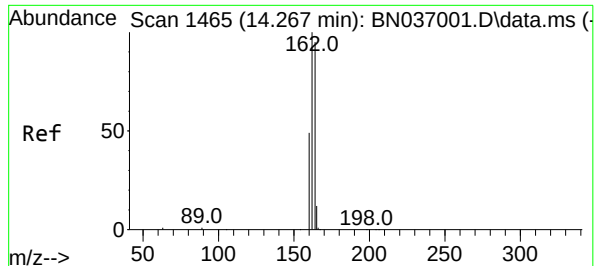
Tgt Ion:152 Resp: 13642
Ion Ratio Lower Upper
152 100
151 21.4 17.5 26.3



#12
2-Methylnaphthalene
Concen: 1.712 ng
RT: 12.072 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:142 Resp: 18399
Ion Ratio Lower Upper
142 100
141 91.5 73.3 109.9
115 46.6 38.4 57.6

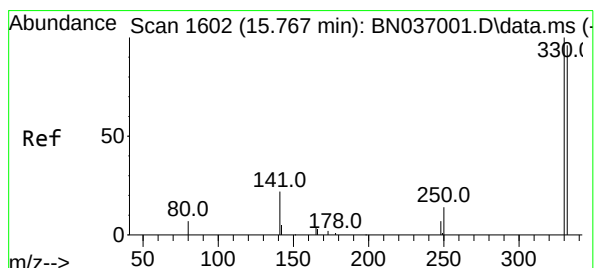
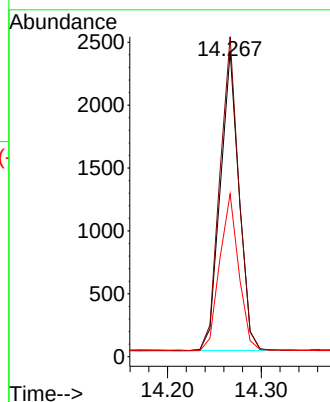
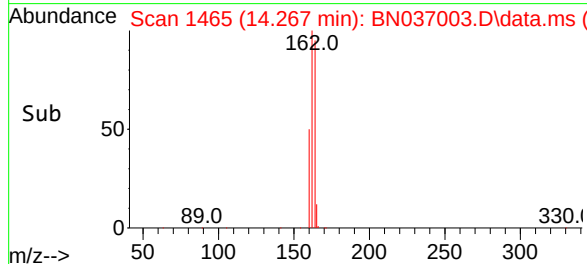
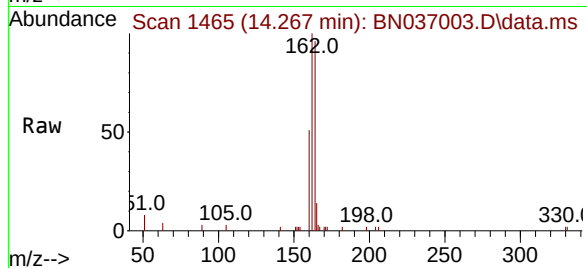




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.267 min Scan# 1465
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

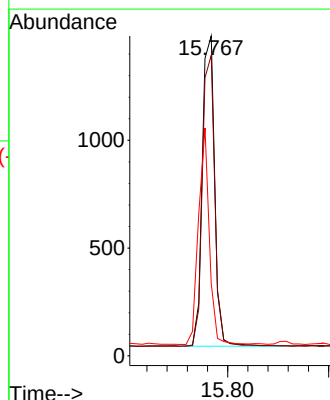
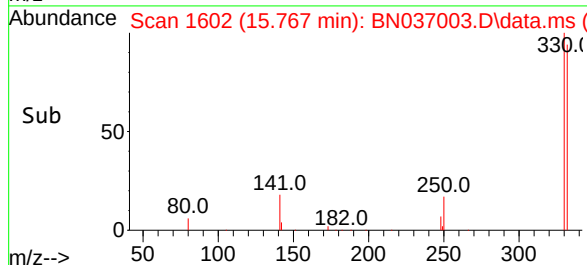
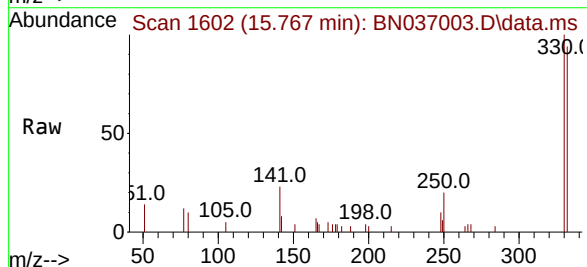
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

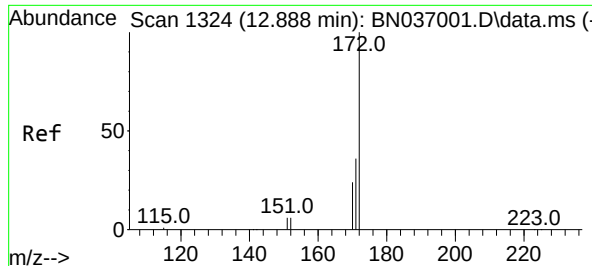
Tgt Ion	164	Resp	3305
Ion	Ratio	Lower	Upper
164	100		
162	104.7	84.2	126.4
160	53.3	42.6	63.8



#14
2,4,6-Tribromophenol
Concen: 1.695 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion	330	Resp	2461
Ion	Ratio	Lower	Upper
330	100		
332	93.9	73.8	110.8
141	60.9	43.9	65.9

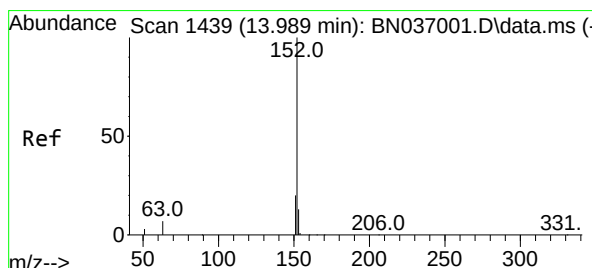
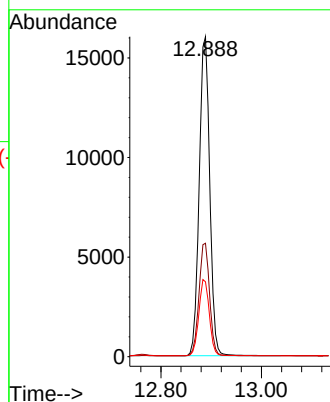
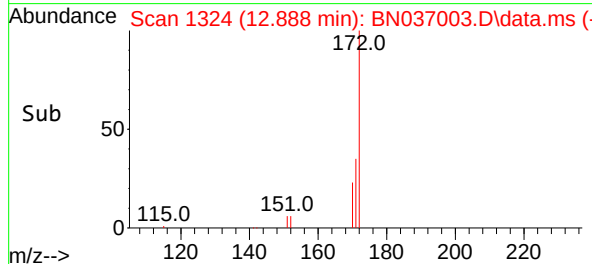
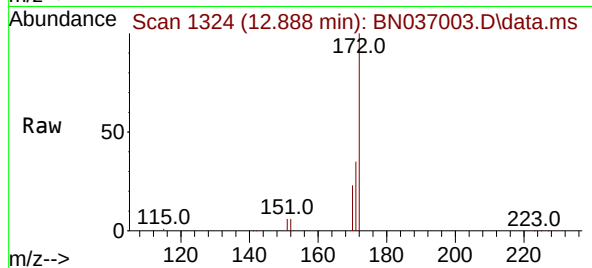




#15
2-Fluorobiphenyl
Concen: 1.684 ng
RT: 12.888 min Scan# 1324
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

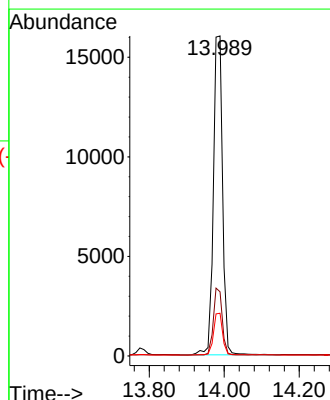
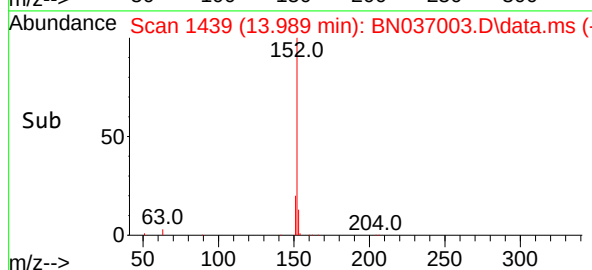
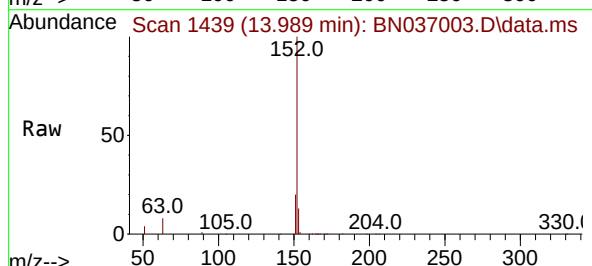
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

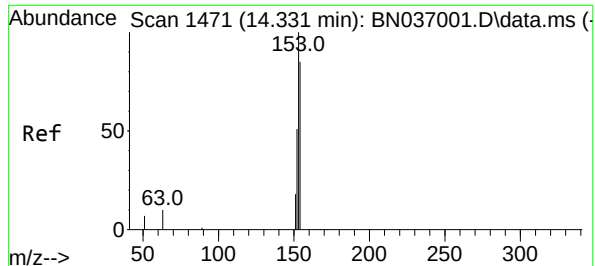
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.4	29.2	43.8
170	23.4	20.5	30.7



#16
Acenaphthylene
Concen: 1.702 ng
RT: 13.989 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.1	24.1
153	12.9	10.5	15.7

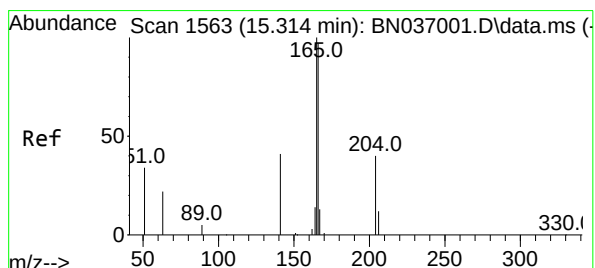
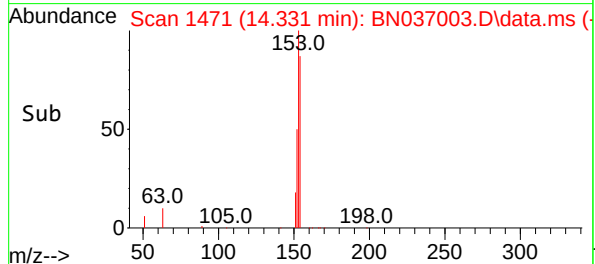
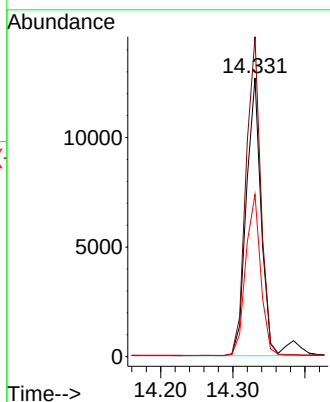
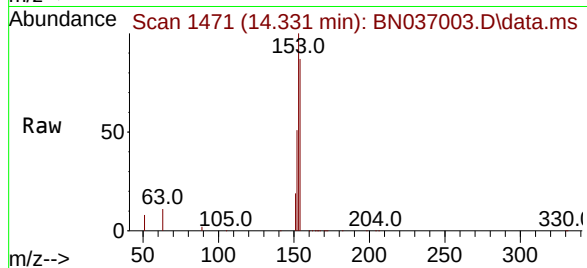




#17
Acenaphthene
Concen: 1.698 ng
RT: 14.331 min Scan# 1471
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

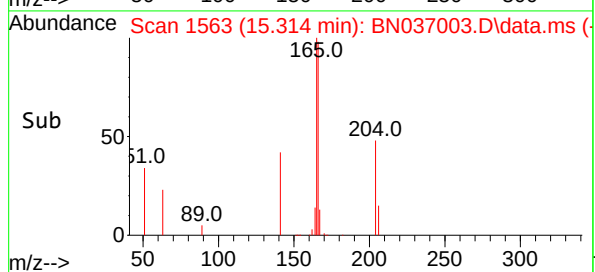
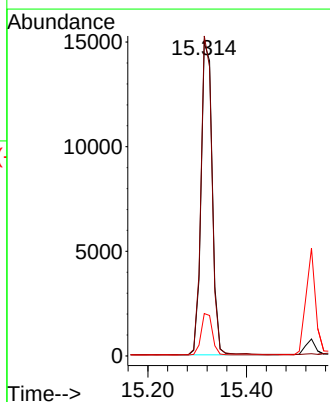
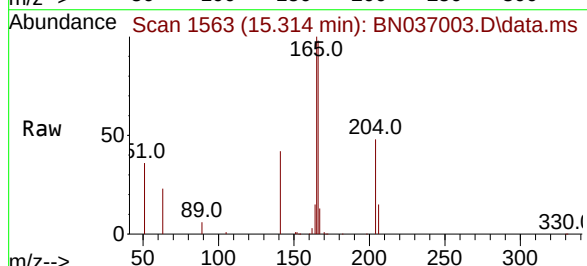
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

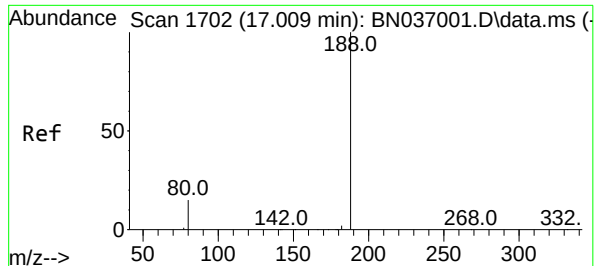
Tgt Ion:154 Resp: 17846
Ion Ratio Lower Upper
154 100
153 115.9 94.2 141.4
152 59.8 49.4 74.0



#18
Fluorene
Concen: 1.705 ng
RT: 15.314 min Scan# 1563
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:166 Resp: 23515
Ion Ratio Lower Upper
166 100
165 100.2 80.6 120.8
167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

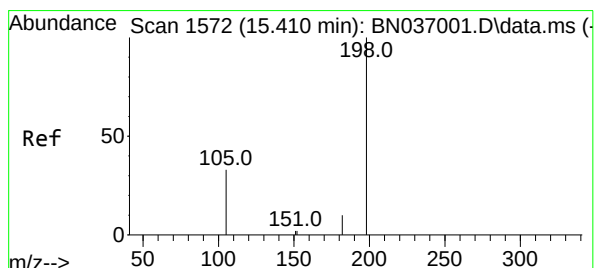
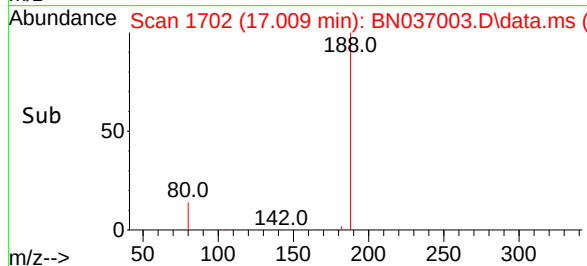
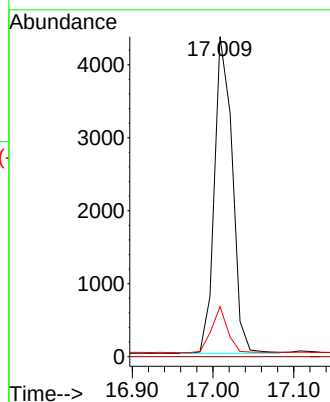
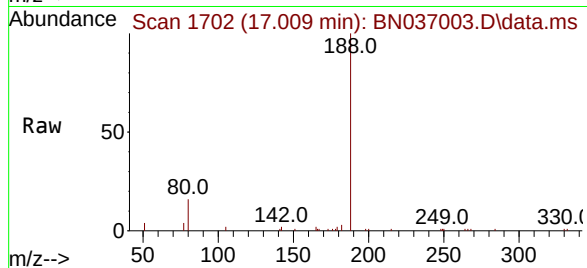
Tgt Ion:188 Resp: 6678

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.7 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 1.748 ng

RT: 15.400 min Scan# 1571

Delta R.T. -0.010 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

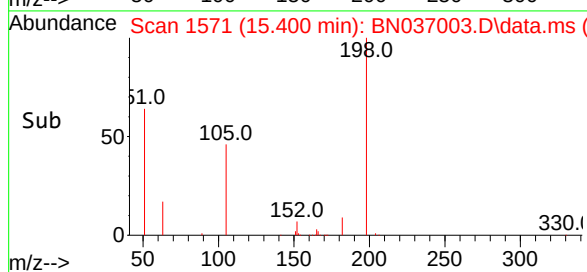
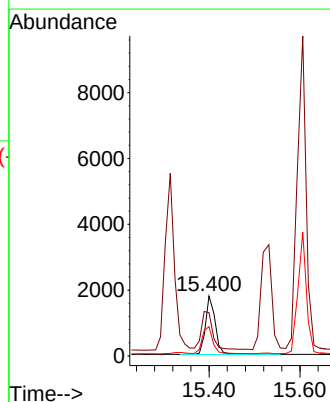
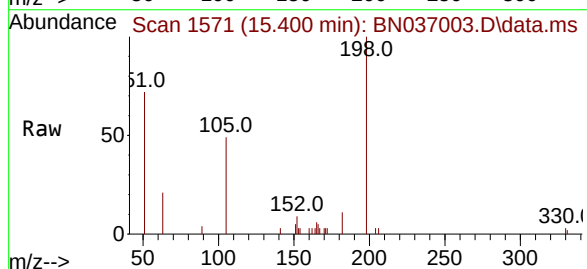
Tgt Ion:198 Resp: 2713

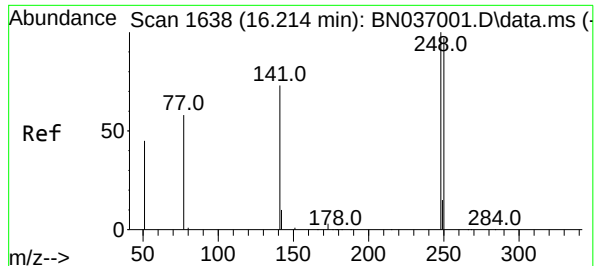
Ion Ratio Lower Upper

198 100

51 72.3 87.8 131.6#

105 48.8 44.2 66.4

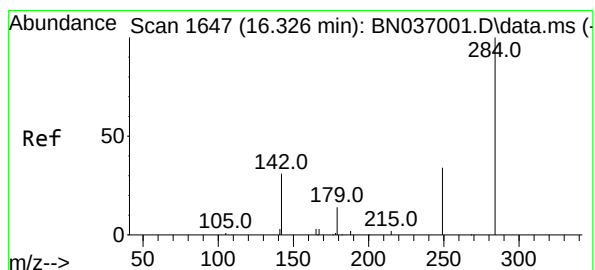
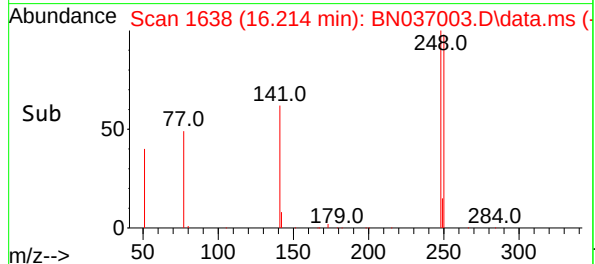
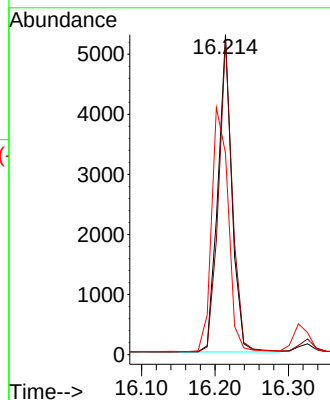
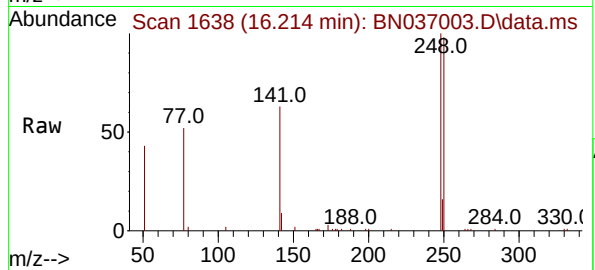




#21
4-Bromophenyl-phenylether
Concen: 1.661 ng
RT: 16.214 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

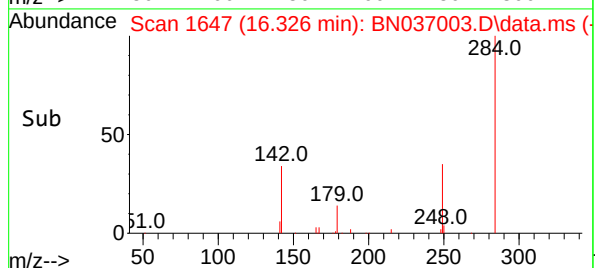
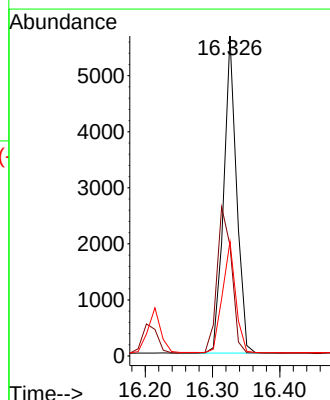
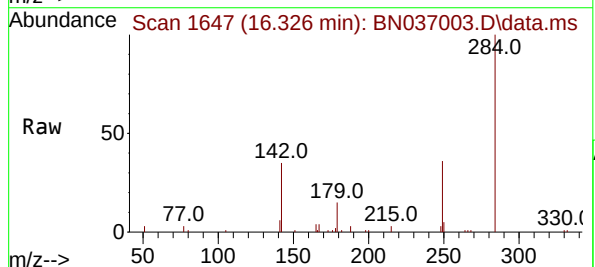
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

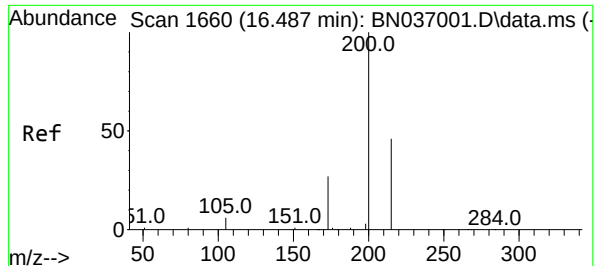
Tgt Ion:248 Resp: 7008
Ion Ratio Lower Upper
248 100
250 98.4 78.1 117.1
141 62.9 59.7 89.5



#22
Hexachlorobenzene
Concen: 1.664 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:284 Resp: 7515
Ion Ratio Lower Upper
284 100
142 52.3 41.2 61.8
249 35.9 28.7 43.1





#23

Atrazine

Concen: 1.722 ng

RT: 16.487 min Scan# 1660

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

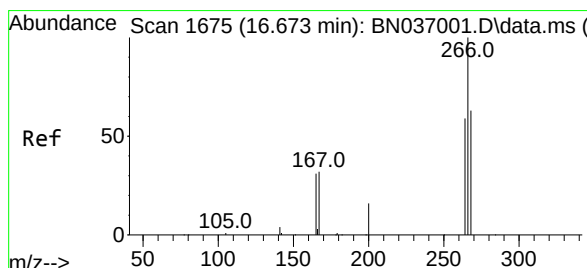
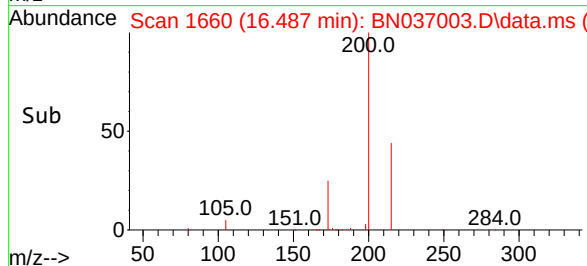
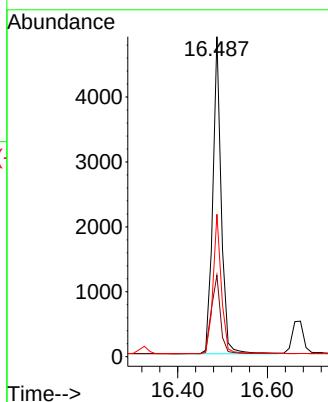
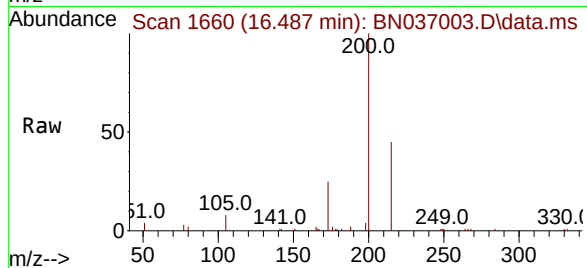
Tgt Ion:200 Resp: 6336

Ion Ratio Lower Upper

200 100

173 25.5 25.2 37.8

215 44.5 39.3 58.9



#24

Pentachlorophenol

Concen: 1.697 ng

RT: 16.674 min Scan# 1675

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

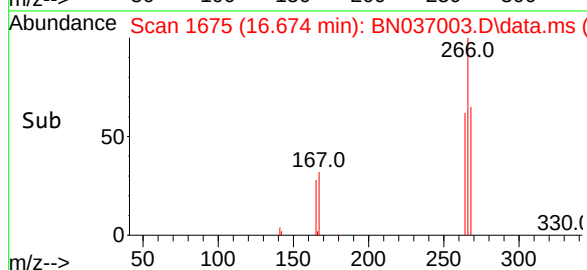
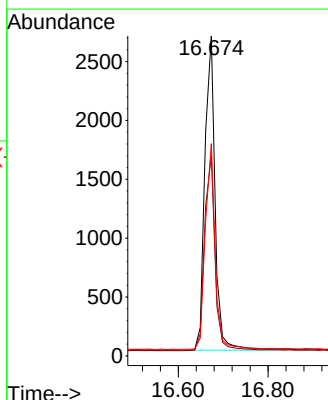
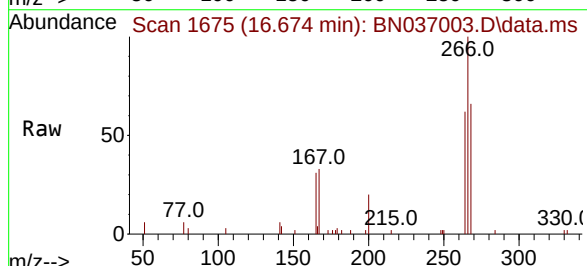
Tgt Ion:266 Resp: 4256

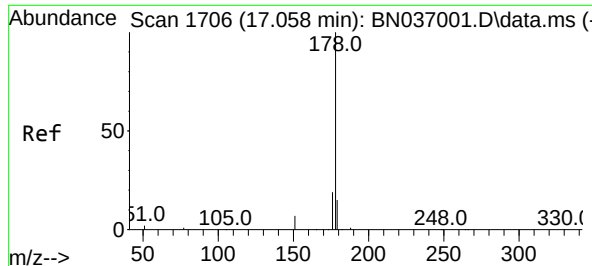
Ion Ratio Lower Upper

266 100

264 62.9 47.9 71.9

268 62.9 50.0 75.0

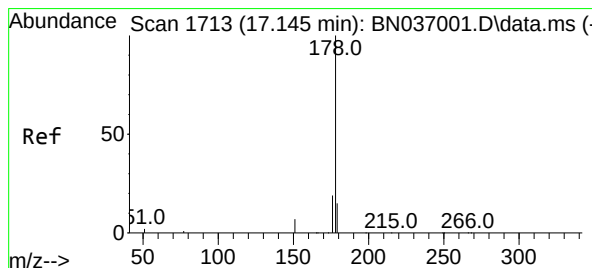
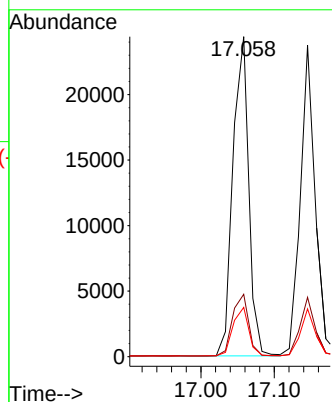
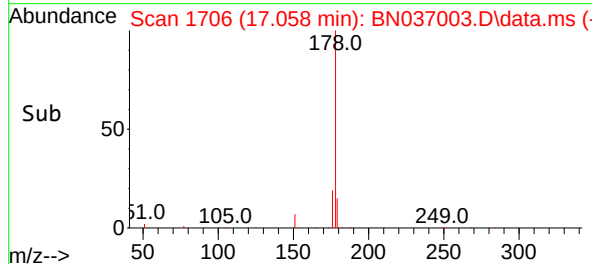
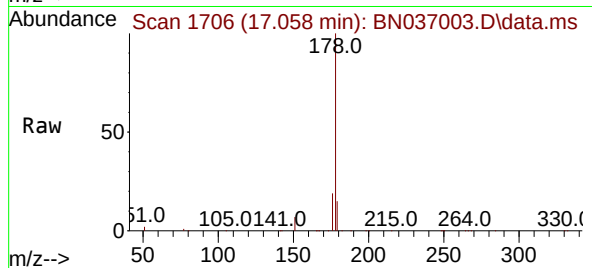




#25
Phenanthrene
Concen: 1.673 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

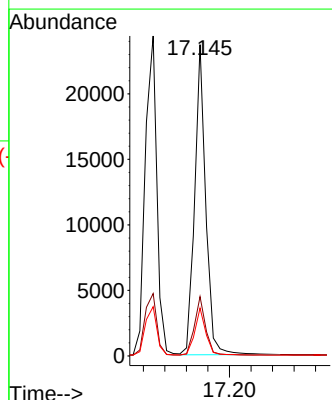
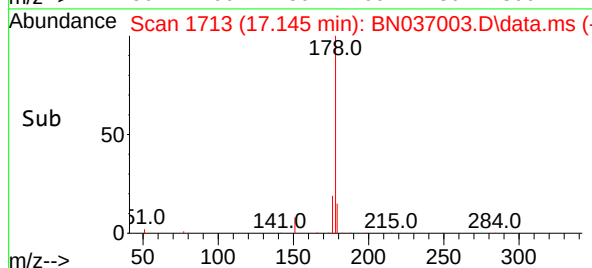
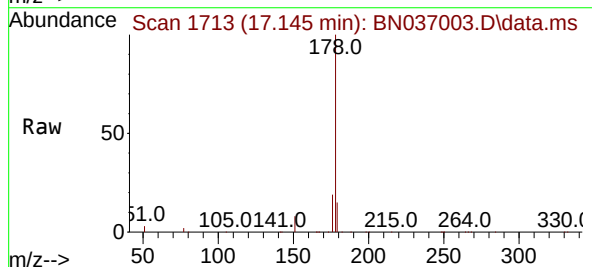
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

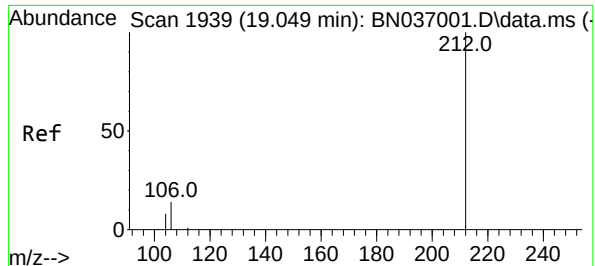
Tgt Ion:178 Resp: 36506
Ion Ratio Lower Upper
178 100
176 19.8 15.7 23.5
179 15.3 12.2 18.2



#26
Anthracene
Concen: 1.707 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:178 Resp: 33908
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.1 12.3 18.5





#27

Fluoranthene-d10

Concen: 1.682 ng

RT: 19.054 min Scan# 1940

Delta R.T. 0.005 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

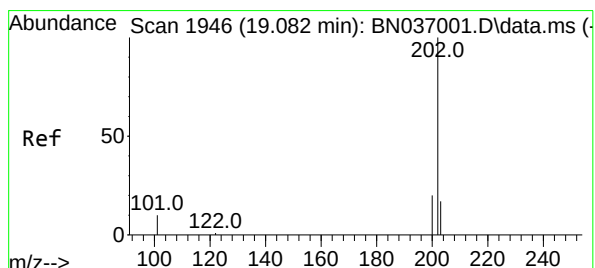
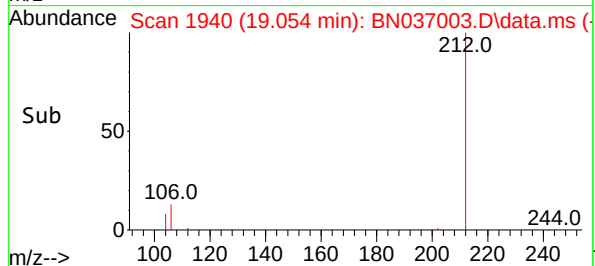
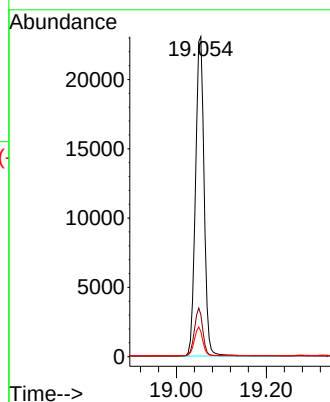
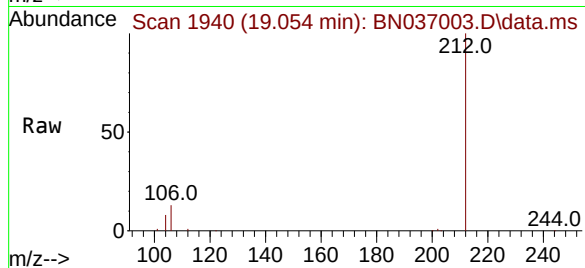
Tgt Ion:212 Resp: 30804

Ion Ratio Lower Upper

212 100

106 14.5 11.3 16.9

104 8.6 6.7 10.1



#28

Fluoranthene

Concen: 1.711 ng

RT: 19.082 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

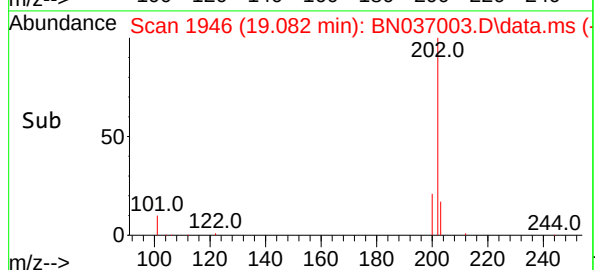
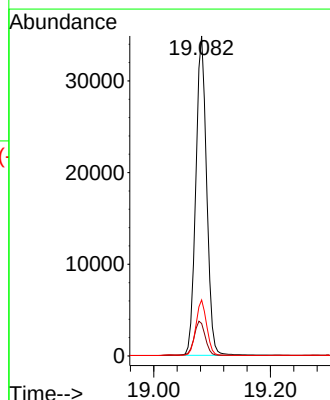
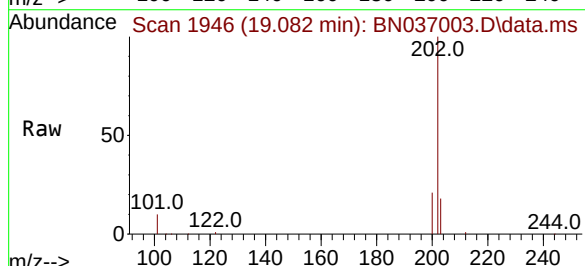
Tgt Ion:202 Resp: 44613

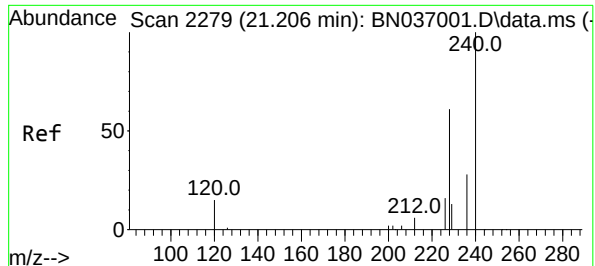
Ion Ratio Lower Upper

202 100

101 11.3 8.9 13.3

203 17.1 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.207 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

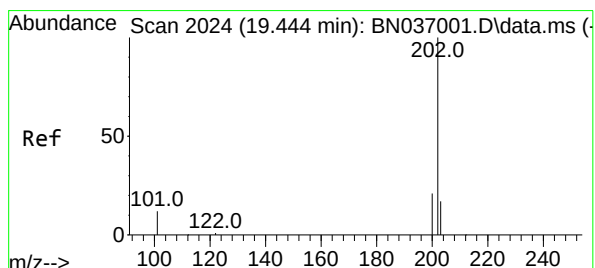
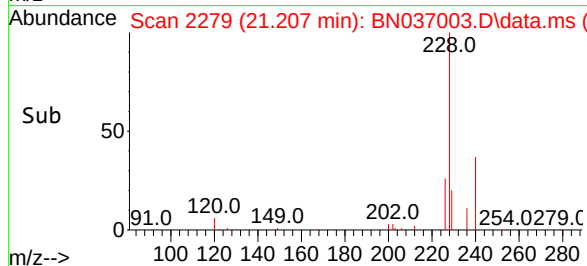
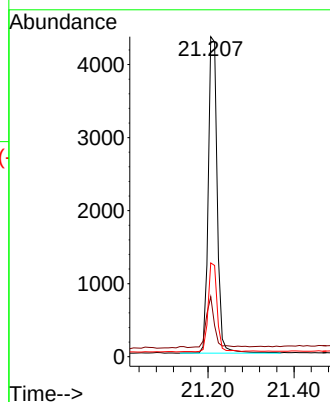
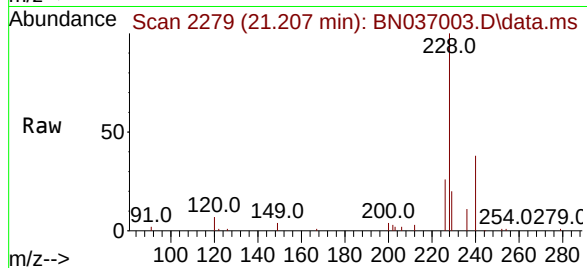
Tgt Ion:240 Resp: 6288

Ion Ratio Lower Upper

240 100

120 18.7 15.1 22.7

236 29.3 24.0 36.0



#30

Pyrene

Concen: 1.674 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

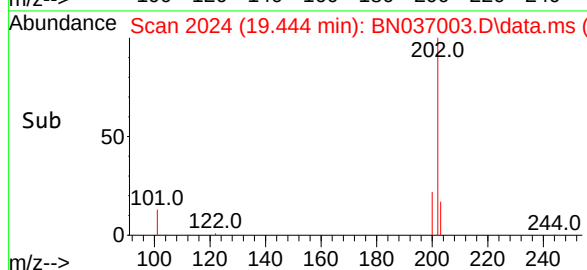
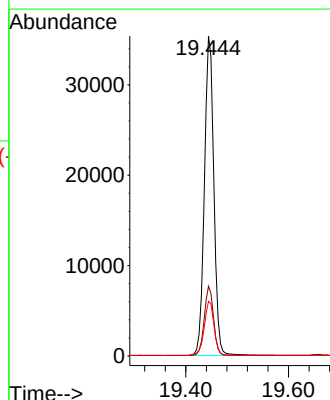
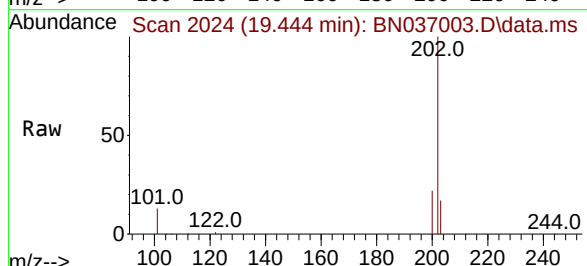
Tgt Ion:202 Resp: 45015

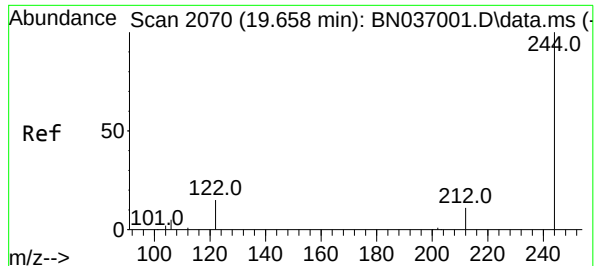
Ion Ratio Lower Upper

202 100

200 21.5 17.1 25.7

203 17.7 14.2 21.4

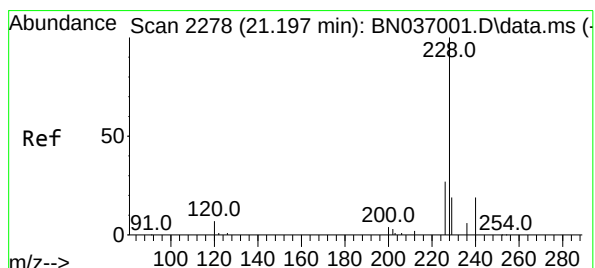
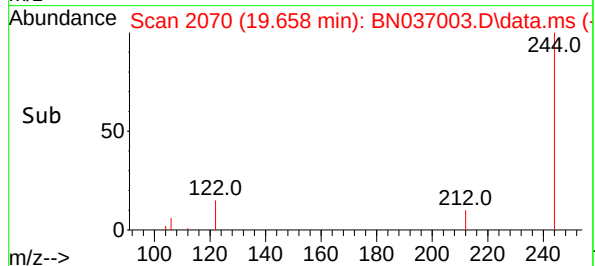
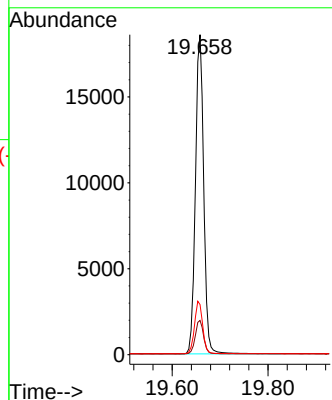
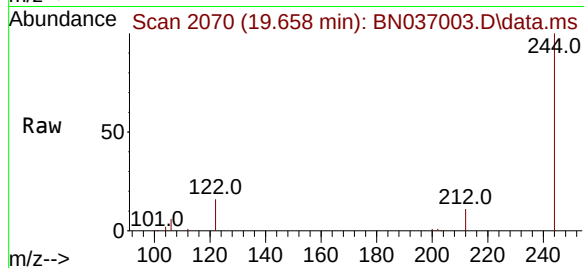




#31
Terphenyl-d14
Concen: 1.667 ng
RT: 19.658 min Scan# 2070
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

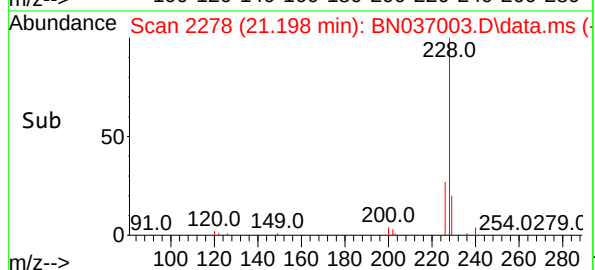
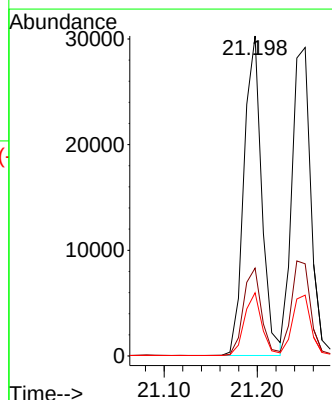
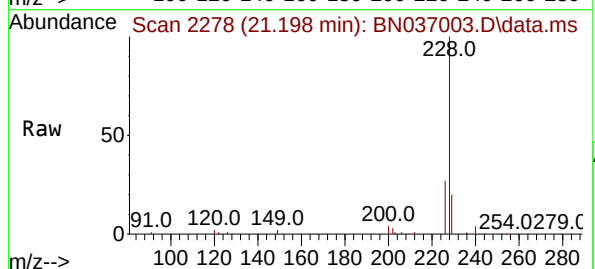
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

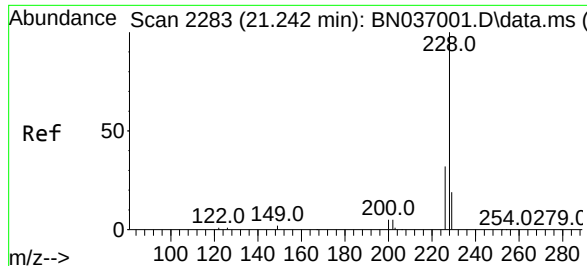
Tgt Ion:244 Resp: 22417
Ion Ratio Lower Upper
244 100
212 10.7 9.7 14.5
122 15.7 13.4 20.0



#32
Benzo(a)anthracene
Concen: 1.694 ng
RT: 21.198 min Scan# 2278
Delta R.T. 0.000 min
Lab File: BN037003.D
Acq: 13 May 2025 20:05

Tgt Ion:228 Resp: 40103
Ion Ratio Lower Upper
228 100
226 27.4 22.2 33.4
229 19.8 16.0 24.0





#33

Chrysene

Concen: 1.660 ng

RT: 21.251 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

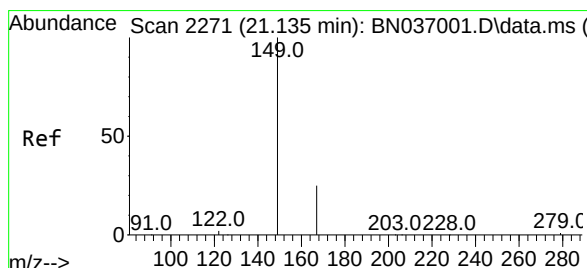
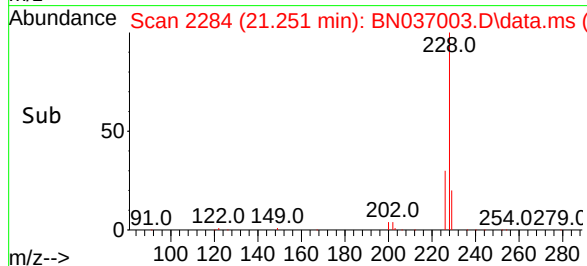
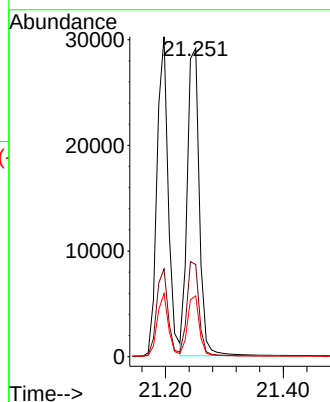
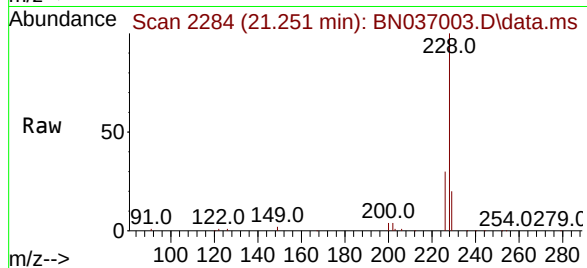
Tgt Ion:228 Resp: 41576

Ion Ratio Lower Upper

228 100

226 29.9 26.3 39.5

229 19.7 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.621 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

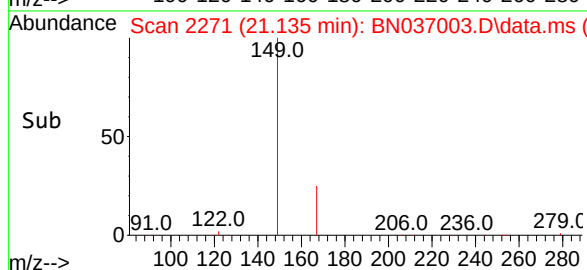
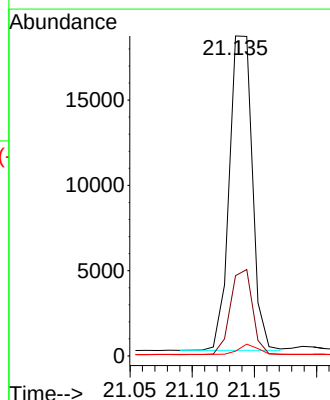
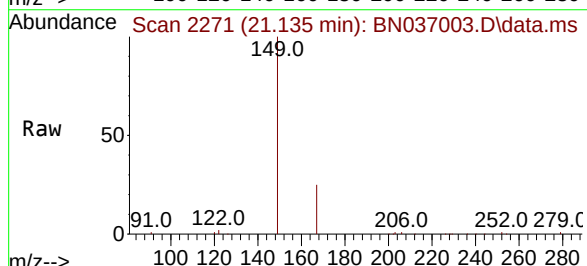
Tgt Ion:149 Resp: 23656

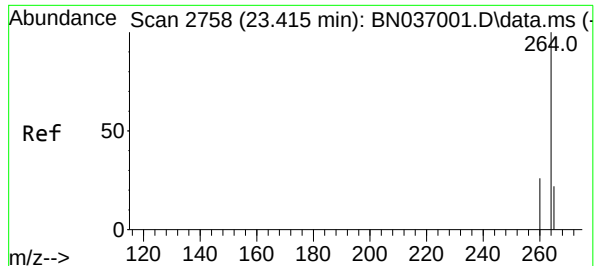
Ion Ratio Lower Upper

149 100

167 26.2 20.6 30.8

279 2.7 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.418 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

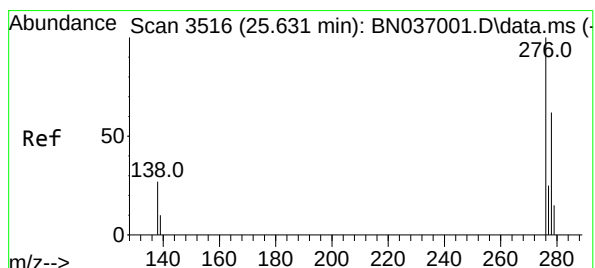
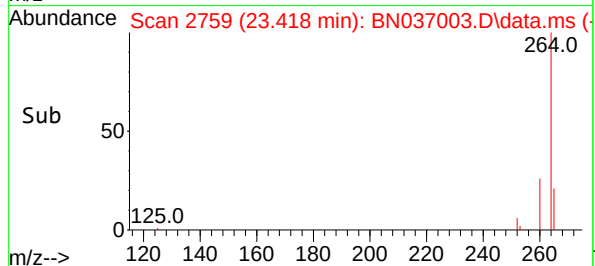
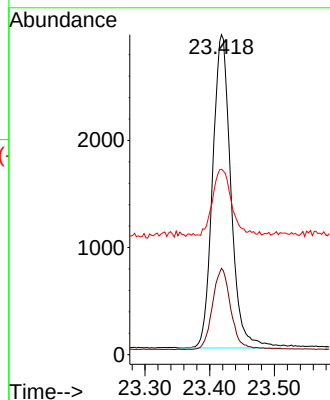
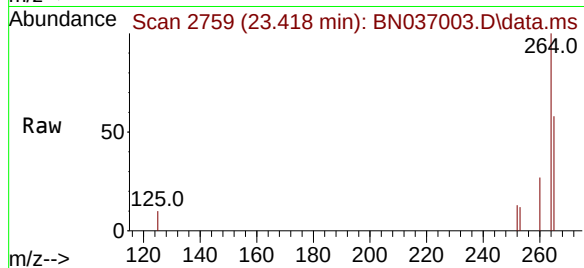
Tgt Ion:264 Resp: 5747

Ion Ratio Lower Upper

264 100

260 27.0 21.9 32.9

265 58.0 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.652 ng

RT: 25.631 min Scan# 3516

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

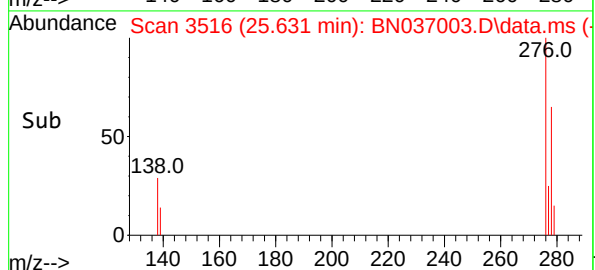
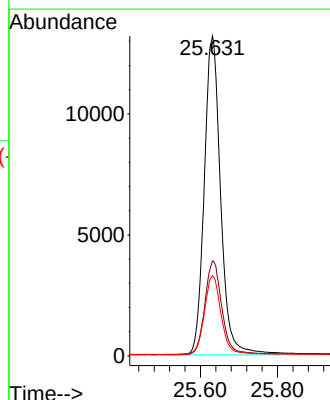
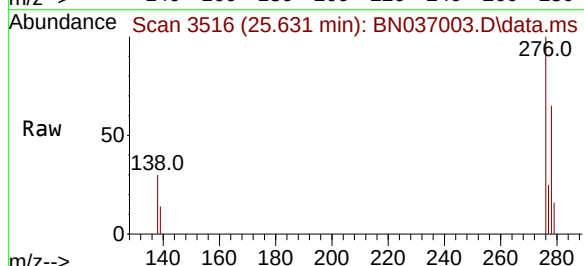
Tgt Ion:276 Resp: 38771

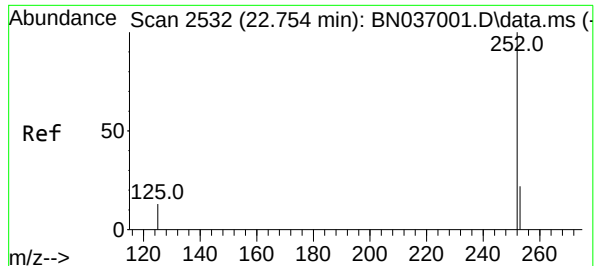
Ion Ratio Lower Upper

276 100

138 30.4 22.7 34.1

277 24.9 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 1.688 ng

RT: 22.757 min Scan# 2533

Delta R.T. 0.003 min

Lab File: BN037003.D

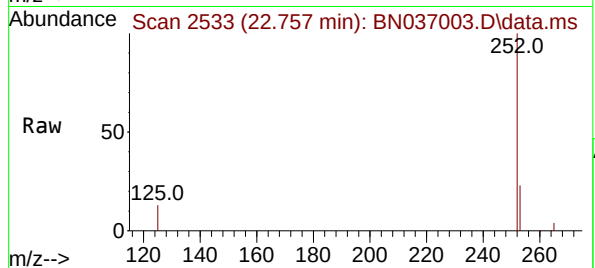
Acq: 13 May 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



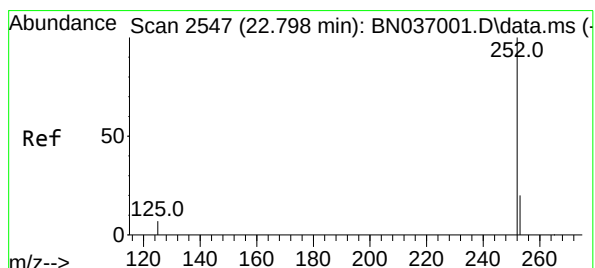
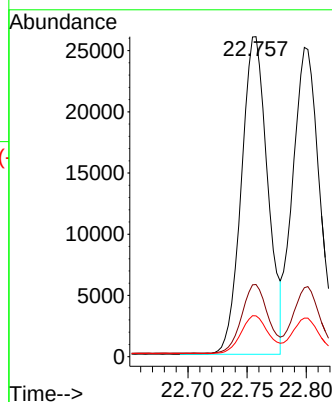
Tgt Ion:252 Resp: 40209

Ion Ratio Lower Upper

252 100

253 22.5 21.8 32.6

125 12.8 14.6 21.8#



#38

Benzo(k)fluoranthene

Concen: 1.729 ng

RT: 22.798 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

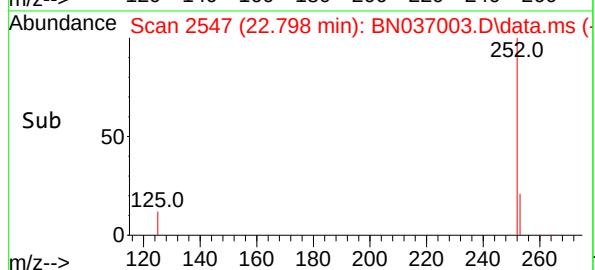
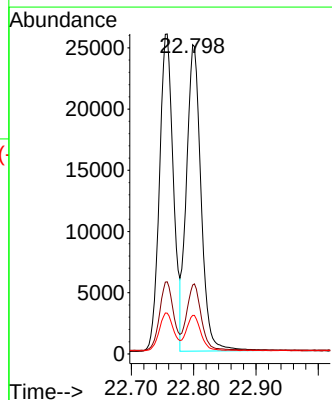
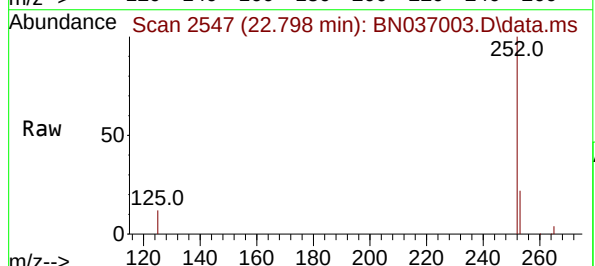
Tgt Ion:252 Resp: 40699

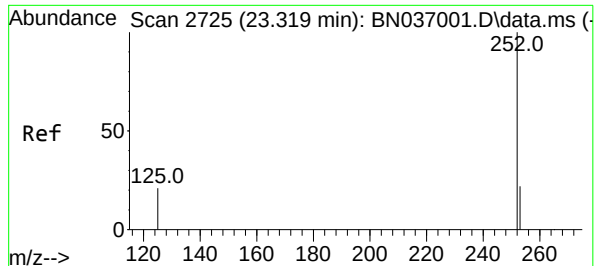
Ion Ratio Lower Upper

252 100

253 22.3 21.4 32.2

125 12.4 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 1.689 ng

RT: 23.322 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037003.D

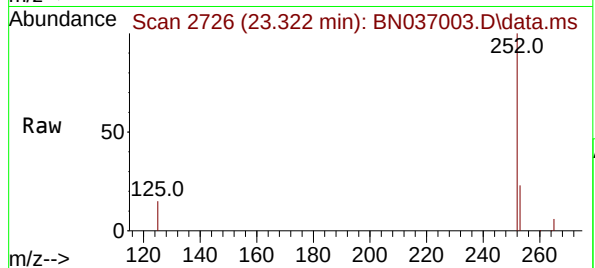
Acq: 13 May 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



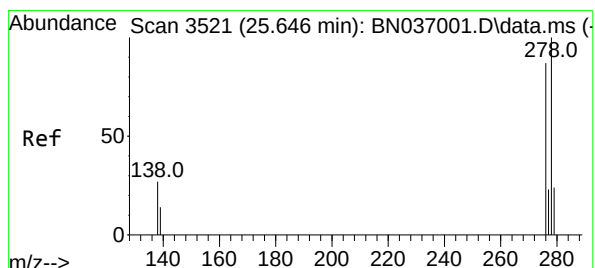
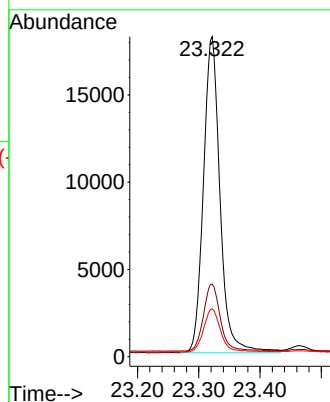
Tgt Ion:252 Resp: 34149

Ion Ratio Lower Upper

252 100

253 22.7 23.8 35.6#

125 15.0 21.8 32.6#



#40

Dibenzo(a,h)anthracene

Concen: 1.685 ng

RT: 25.643 min Scan# 3520

Delta R.T. -0.003 min

Lab File: BN037003.D

Acq: 13 May 2025 20:05

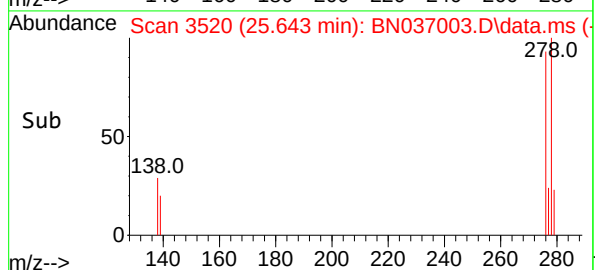
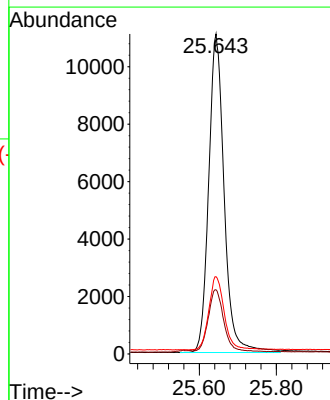
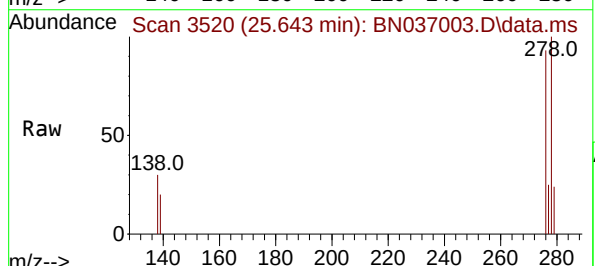
Tgt Ion:278 Resp: 30810

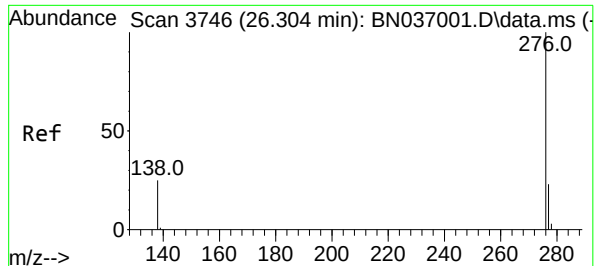
Ion Ratio Lower Upper

278 100

139 20.1 17.4 26.0

279 24.1 24.6 37.0#





#41

Benzo(g,h,i)perylene

Concen: 1.624 ng

RT: 26.307 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037003.D

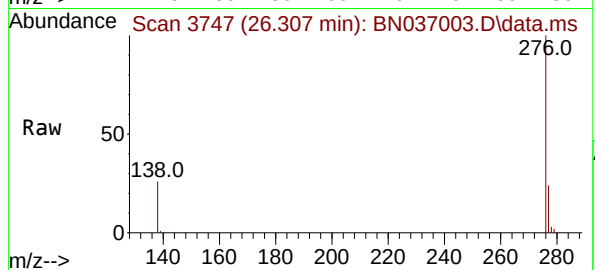
Acq: 13 May 2025 20:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



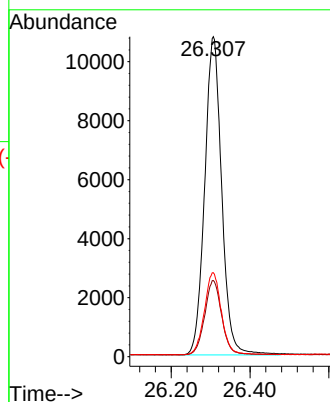
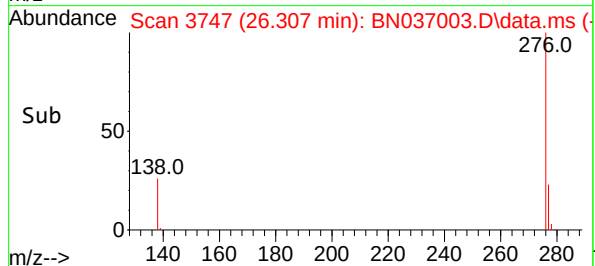
Tgt Ion:276 Resp: 32256

Ion Ratio Lower Upper

276 100

277 23.8 20.2 30.4

138 26.2 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037004.D
 Acq On : 13 May 2025 20:41
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: May 14 11:01:52 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 10:57:36 2025
 Response via : Initial Calibration

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

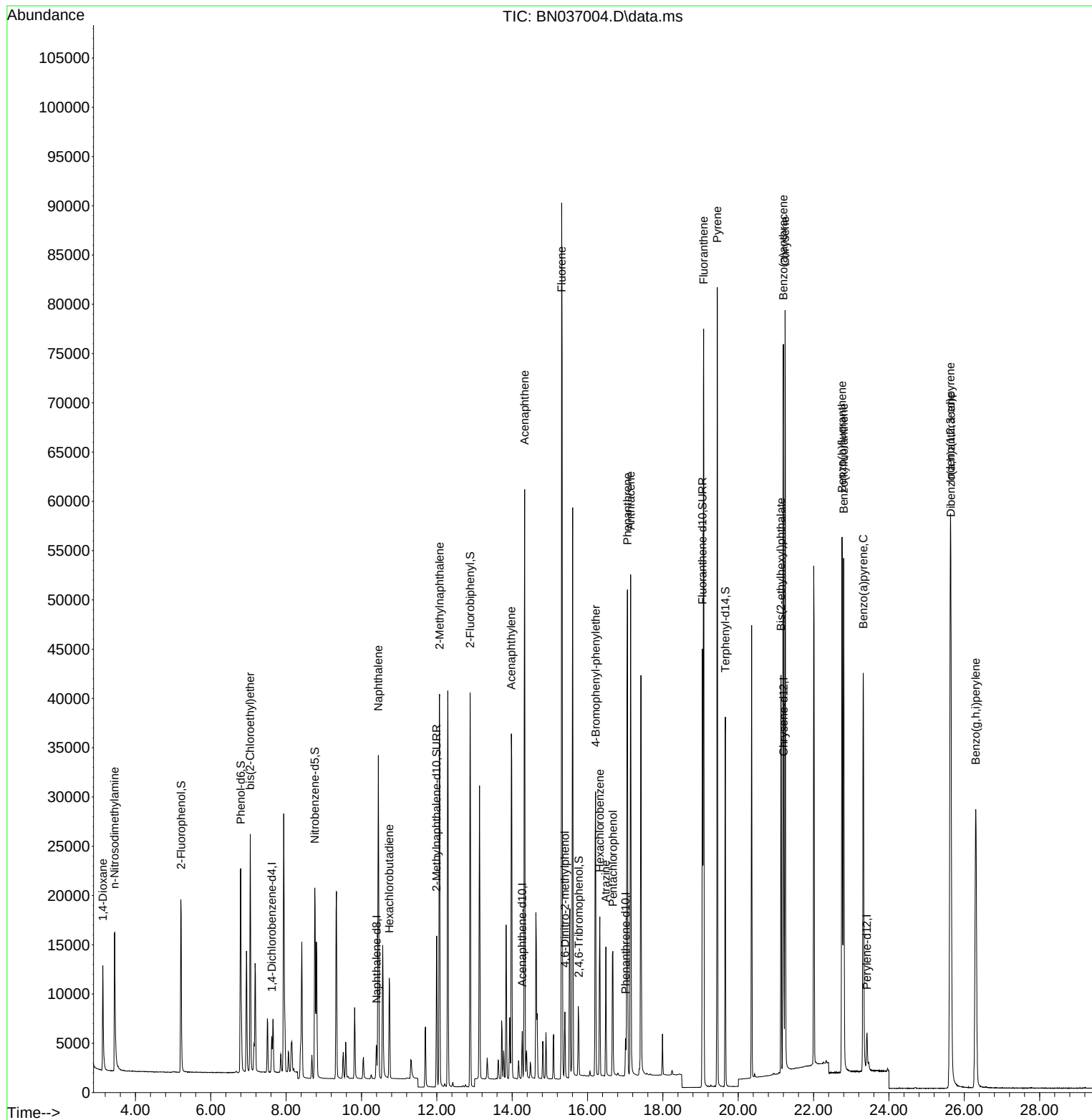
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	1639	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	4315	0.400	ng	0.00
13) Acenaphthene-d10	14.267	164	2482	0.400	ng	0.00
19) Phenanthrene-d10	17.009	188	4870	0.400	ng	0.00
29) Chrysene-d12	21.207	240	5021	0.400	ng	0.00
35) Perylene-d12	23.415	264	4705	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	12639	2.943	ng	0.00
5) Phenol-d6	6.795	99	16506	3.072	ng	0.00
8) Nitrobenzene-d5	8.760	82	14709	3.131	ng	-0.01
11) 2-Methylnaphthalene-d10	11.996	152	19801	3.260	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	3482	3.194	ng	0.00
15) 2-Fluorobiphenyl	12.883	172	33203	2.921	ng	0.00
27) Fluoranthene-d10	19.049	212	45238	3.388	ng	0.00
31) Terphenyl-d14	19.658	244	32768	3.051	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.133	88	6127	3.046	ng	98
3) n-Nitrosodimethylamine	3.444	42	12673	2.933	ng	# 94
6) bis(2-Chloroethyl)ether	7.048	93	15315	3.097	ng	99
9) Naphthalene	10.447	128	39782	3.120	ng	96
10) Hexachlorobutadiene	10.735	225	8153	3.046	ng	# 100
12) 2-Methylnaphthalene	12.072	142	26589	3.242	ng	97
16) Acenaphthylene	13.978	152	39649	3.282	ng	100
17) Acenaphthene	14.331	154	25773	3.265	ng	98
18) Fluorene	15.314	166	34177	3.300	ng	99
20) 4,6-Dinitro-2-methylph...	15.400	198	4002	3.111	ng	# 70
21) 4-Bromophenyl-phenylether	16.214	248	10166	3.305	ng	92
22) Hexachlorobenzene	16.326	284	10501	3.189	ng	98
23) Atrazine	16.487	200	9103	3.393	ng	# 90
24) Pentachlorophenol	16.674	266	6329	3.460	ng	98
25) Phenanthrene	17.058	178	52084	3.272	ng	100
26) Anthracene	17.145	178	49070	3.388	ng	100
28) Fluoranthene	19.082	202	65127	3.426	ng	99
30) Pyrene	19.444	202	65923	3.069	ng	100
32) Benzo(a)anthracene	21.198	228	61105	3.232	ng	99
33) Chrysene	21.242	228	62672	3.134	ng	98
34) Bis(2-ethylhexyl)phtha...	21.135	149	36266	3.113	ng	99
36) Indeno(1,2,3-cd)pyrene	25.631	276	65193	3.393	ng	98
37) Benzo(b)fluoranthene	22.755	252	63928	3.277	ng	# 89
38) Benzo(k)fluoranthene	22.798	252	62537	3.245	ng	# 91
39) Benzo(a)pyrene	23.319	252	54366	3.284	ng	# 81
40) Dibenzo(a,h)anthracene	25.643	278	51783	3.460	ng	# 91
41) Benzo(g,h,i)perylene	26.304	276	54177	3.331	ng	97

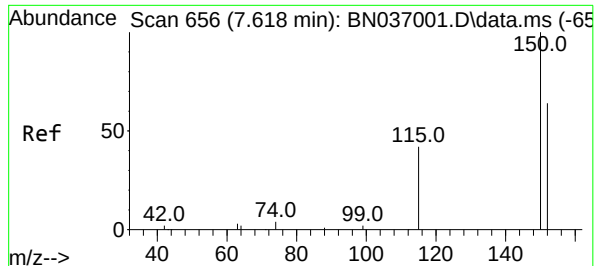
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037004.D
Acq On : 13 May 2025 20:41
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

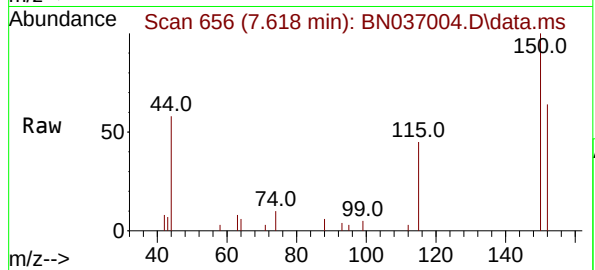
Quant Time: May 14 11:01:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration



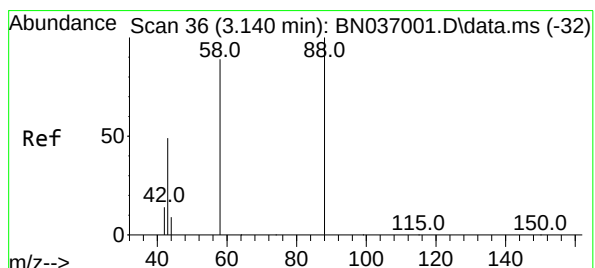
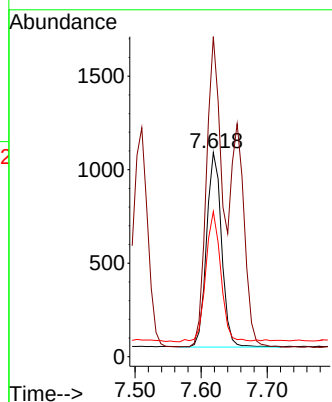
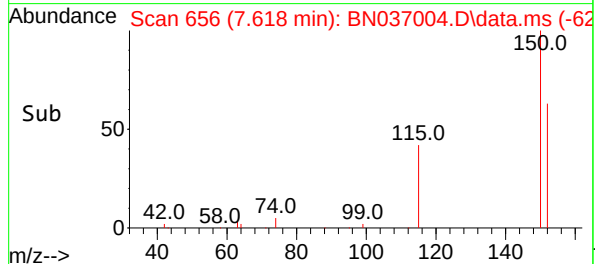


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 61
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

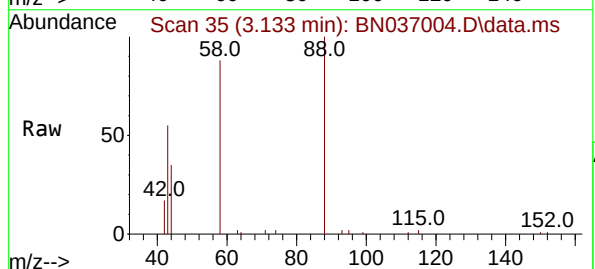
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2



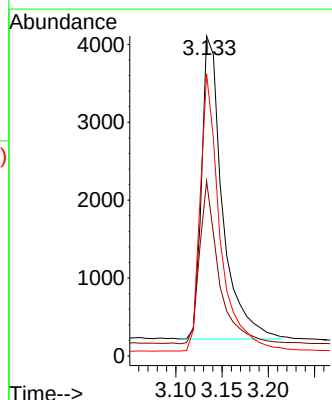
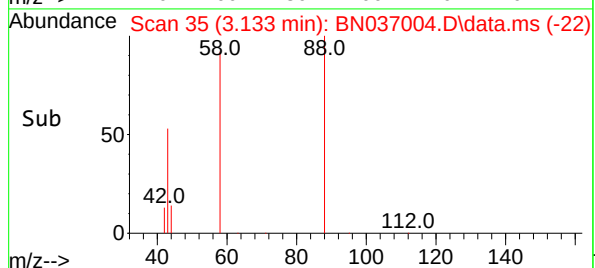
Tgt Ion:152 Resp: 1639
Ion Ratio Lower Upper
152 100
150 156.7 123.9 185.9
115 71.1 55.8 83.8

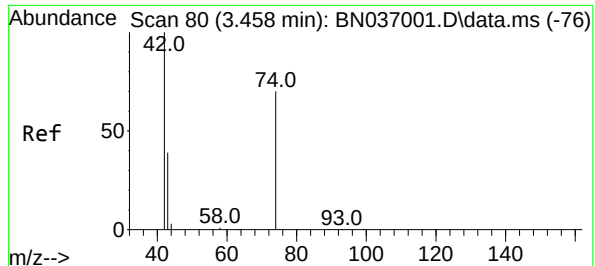


#2
1,4-Dioxane
Concen: 3.046 ng
RT: 3.133 min Scan# 35
Delta R.T. -0.007 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41



Tgt Ion: 88 Resp: 6127
Ion Ratio Lower Upper
88 100
43 49.5 37.4 56.0
58 86.7 68.8 103.2

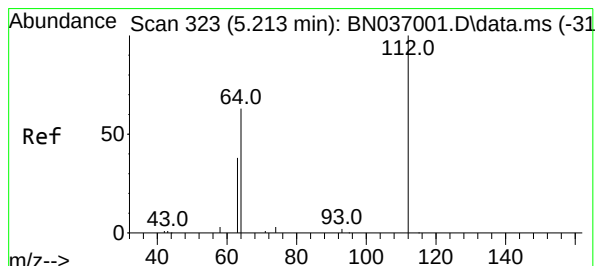
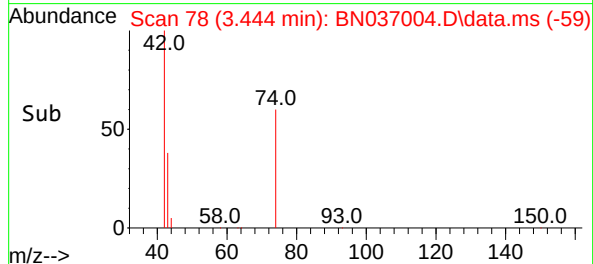
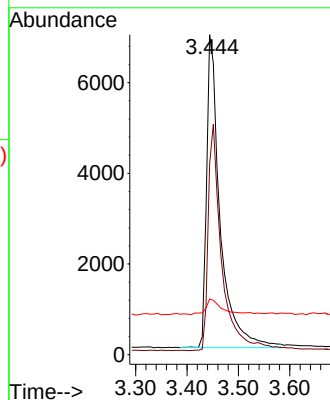
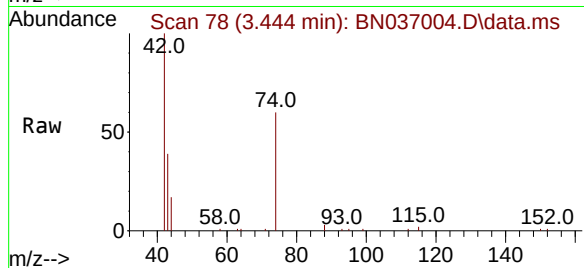




#3
n-Nitrosodimethylamine
Concen: 2.933 ng
RT: 3.444 min Scan# 71
Delta R.T. -0.014 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

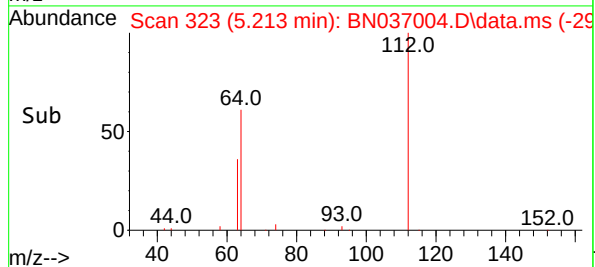
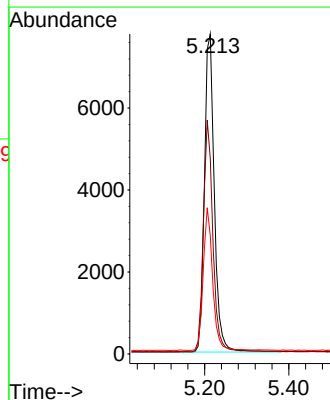
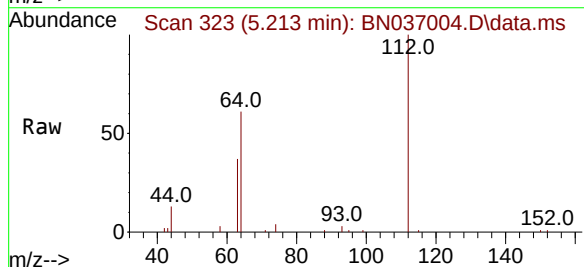
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

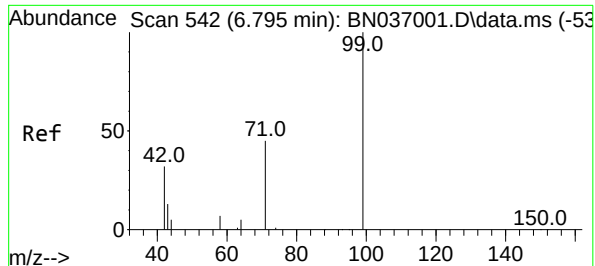
Tgt Ion: 42 Resp: 12673
Ion Ratio Lower Upper
42 100
74 71.8 59.8 89.6
44 6.5 11.9 17.9#



#4
2-Fluorophenol
Concen: 2.943 ng
RT: 5.213 min Scan# 323
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion: 112 Resp: 12639
Ion Ratio Lower Upper
112 100
64 70.2 55.7 83.5
63 42.6 34.6 51.8

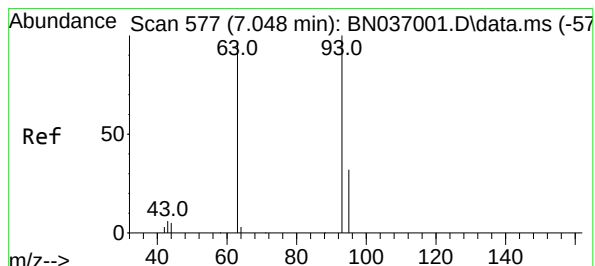
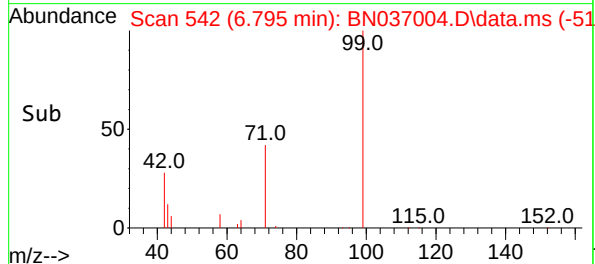
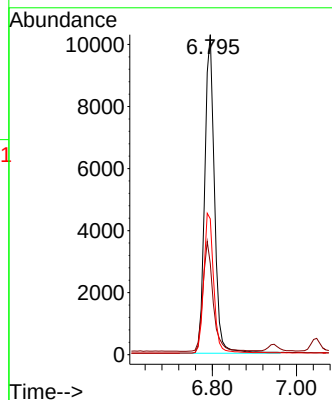
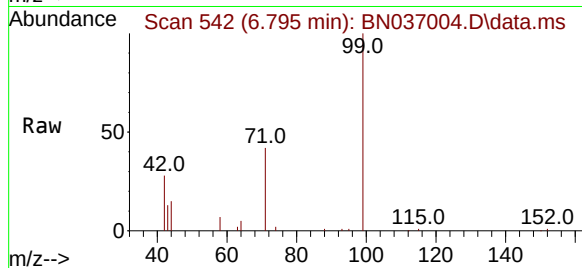




#5
Phenol-d6
Concen: 3.072 ng
RT: 6.795 min Scan# 542
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

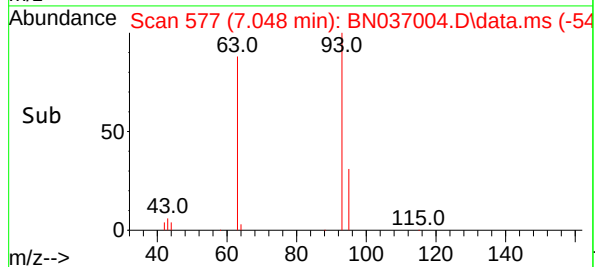
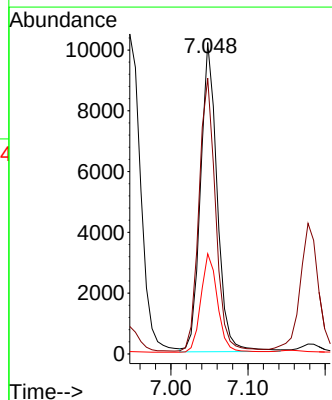
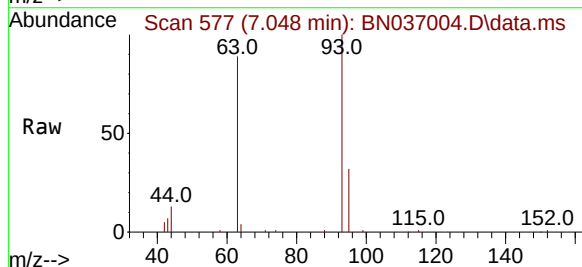
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

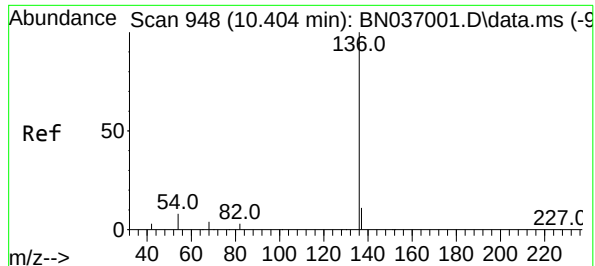
Tgt Ion	Ratio	Lower	Upper
99	100		
42	36.1	29.3	43.9
71	45.3	35.7	53.5



#6
bis(2-Chloroethyl)ether
Concen: 3.097 ng
RT: 7.048 min Scan# 577
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion	Ratio	Lower	Upper
93	100		
63	87.8	70.1	105.1
95	31.8	26.2	39.2

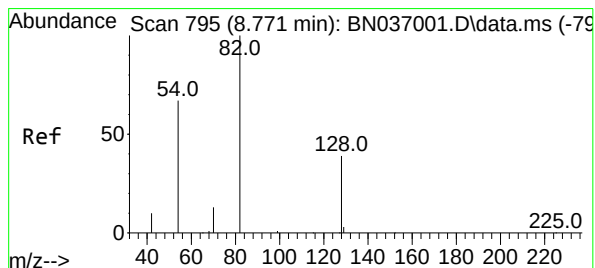
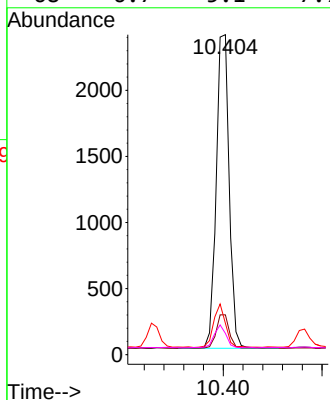
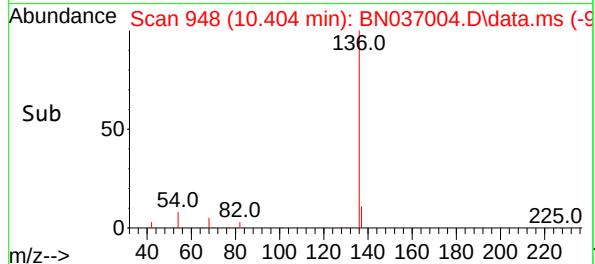
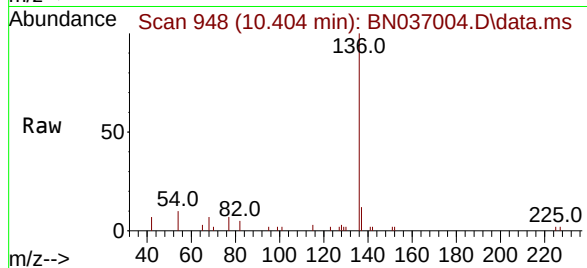




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

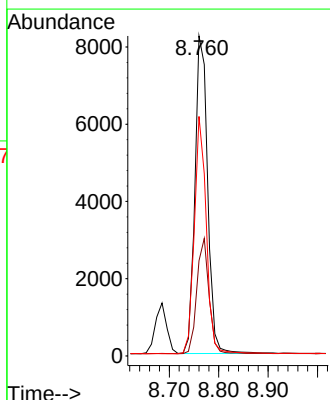
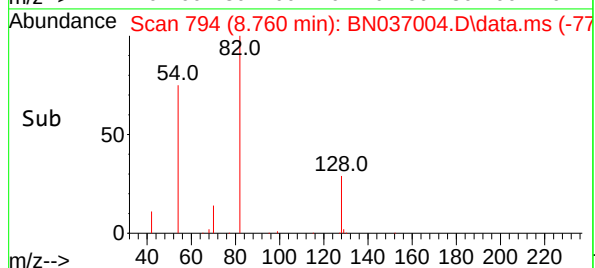
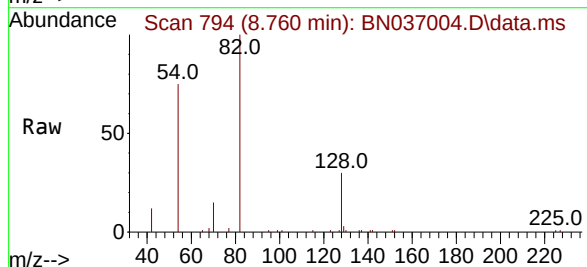
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

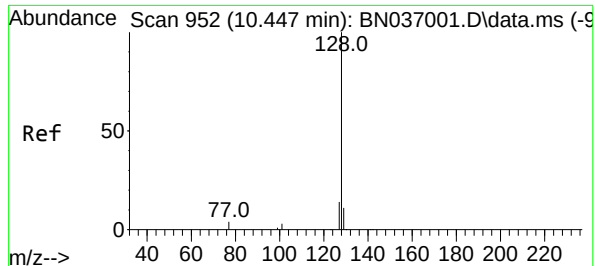
Tgt Ion:	136	Resp:	4315
Ion	Ratio	Lower	Upper
136	100		
137	12.4	10.4	15.6
54	9.8	8.5	12.7
68	6.7	5.1	7.7



#8
Nitrobenzene-d5
Concen: 3.131 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:	82	Resp:	14709
Ion	Ratio	Lower	Upper
82	100		
128	29.7	34.0	51.0#
54	74.8	55.0	82.4





#9

Naphthalene

Concen: 3.120 ng

RT: 10.447 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

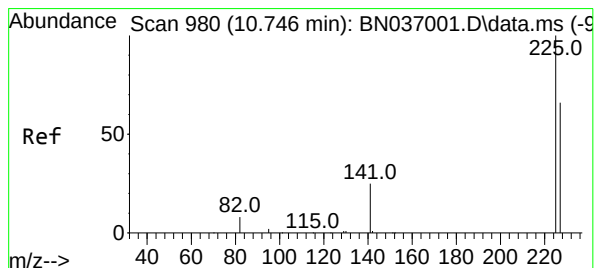
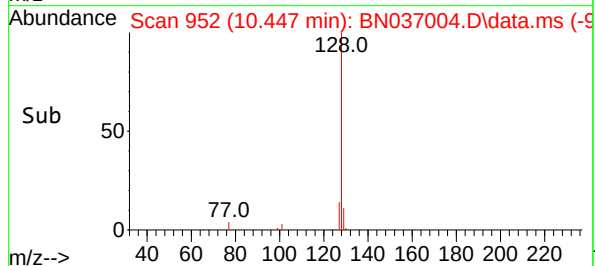
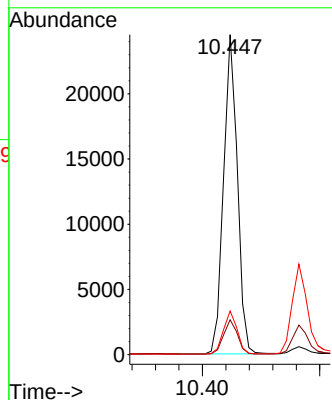
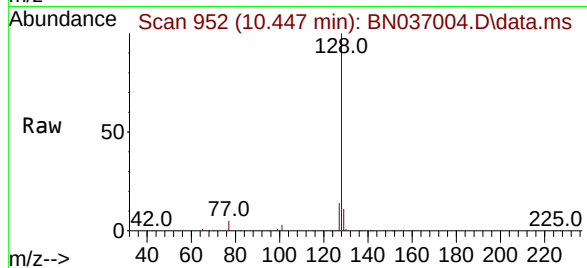
Tgt Ion:128 Resp: 39782

Ion Ratio Lower Upper

128 100

129 10.9 9.7 14.5

127 13.7 12.4 18.6



#10

Hexachlorobutadiene

Concen: 3.046 ng

RT: 10.735 min Scan# 979

Delta R.T. -0.011 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

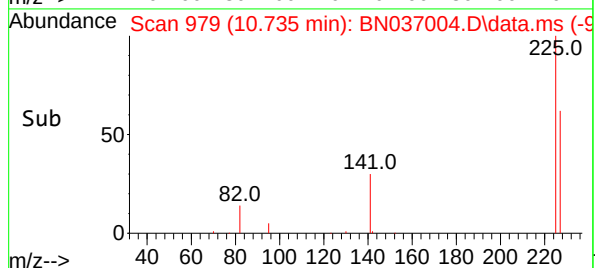
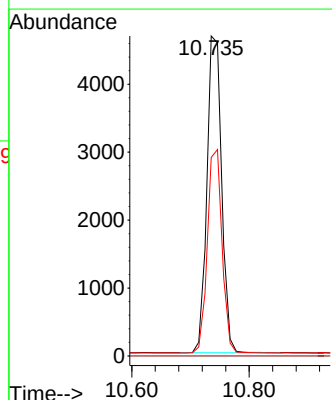
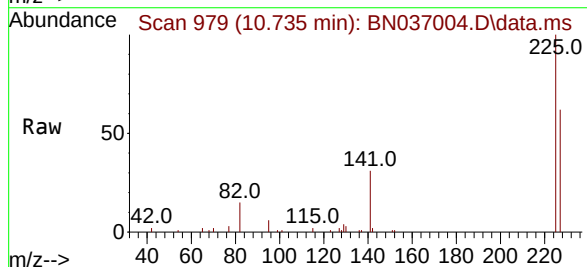
Tgt Ion:225 Resp: 8153

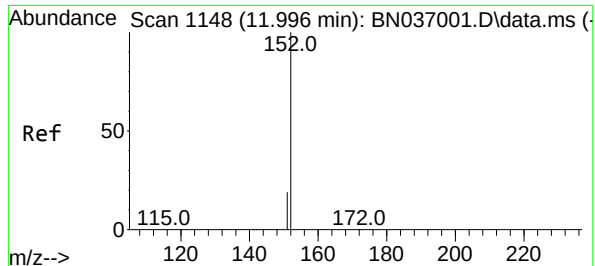
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.7 50.9 76.3

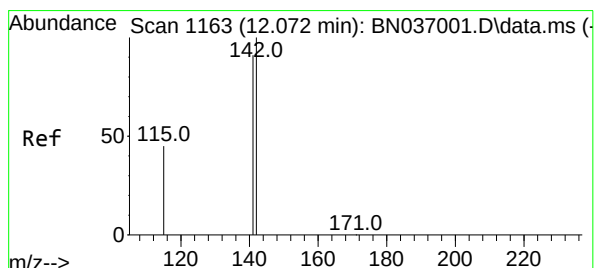
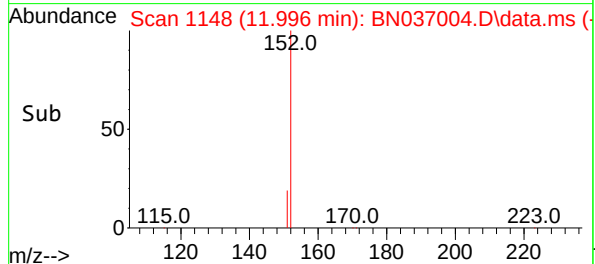
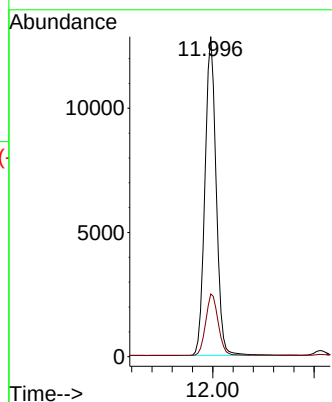
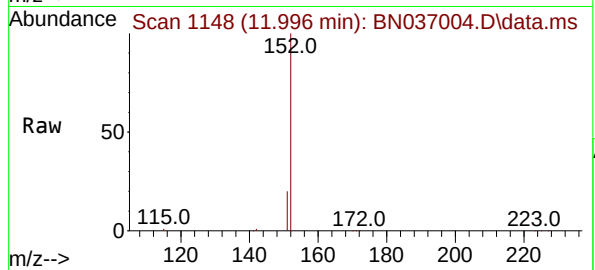




#11
2-Methylnaphthalene-d10
Concen: 3.260 ng
RT: 11.996 min Scan# 1148
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

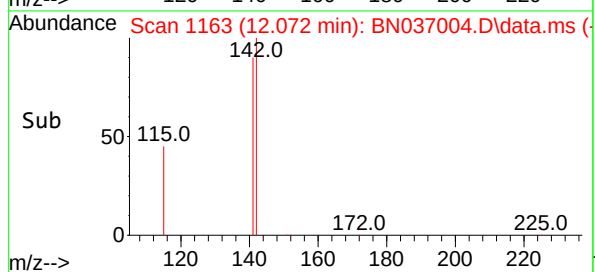
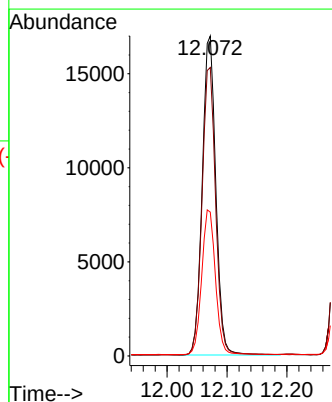
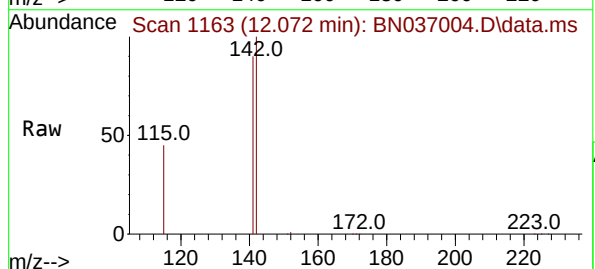
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

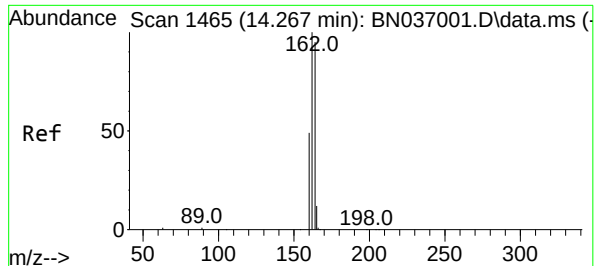
Tgt Ion:152 Resp: 19801
Ion Ratio Lower Upper
152 100
151 21.5 17.5 26.3



#12
2-Methylnaphthalene
Concen: 3.242 ng
RT: 12.072 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:142 Resp: 26589
Ion Ratio Lower Upper
142 100
141 90.2 73.3 109.9
115 45.0 38.4 57.6

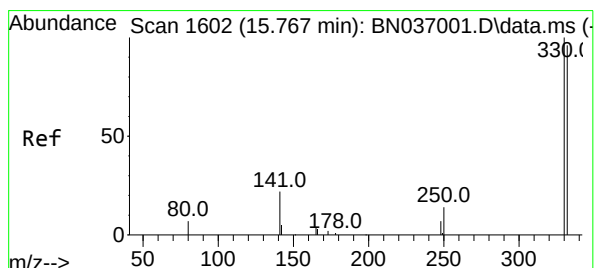
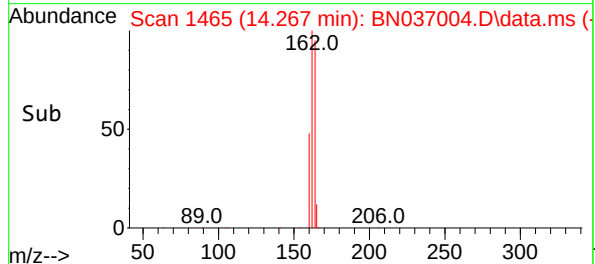
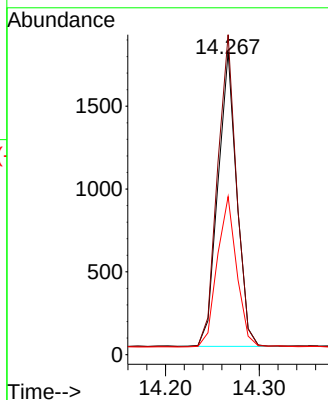
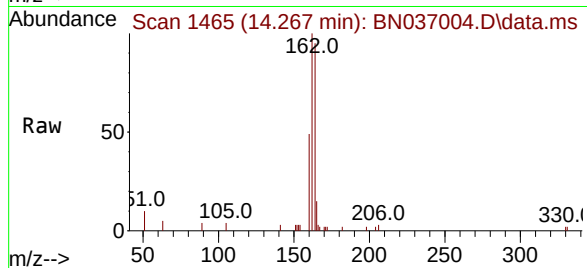




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.267 min Scan# 1465
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

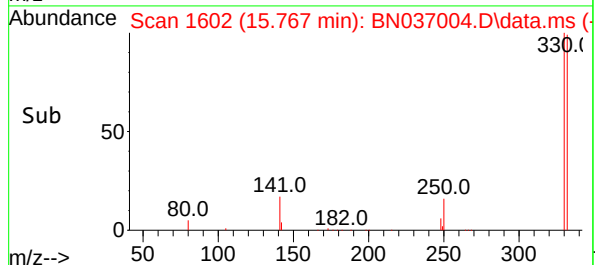
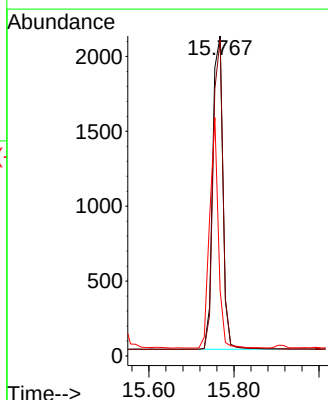
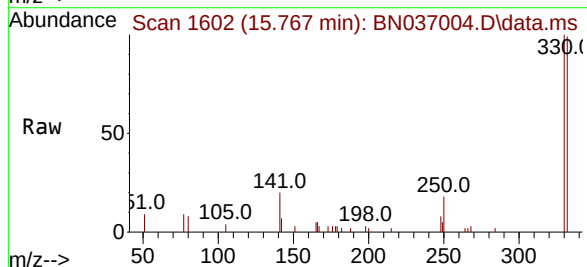
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

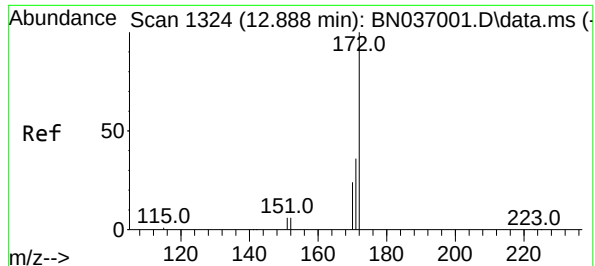
Tgt Ion	164	Resp	2482
Ion	Ratio	Lower	Upper
164	100		
162	105.6	84.2	126.4
160	52.1	42.6	63.8



#14
2,4,6-Tribromophenol
Concen: 3.194 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion	330	Resp	3482
Ion	Ratio	Lower	Upper
330	100		
332	95.6	73.8	110.8
141	63.0	43.9	65.9





#15

2-Fluorobiphenyl

Concen: 2.921 ng

RT: 12.883 min Scan# 11

Delta R.T. -0.005 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

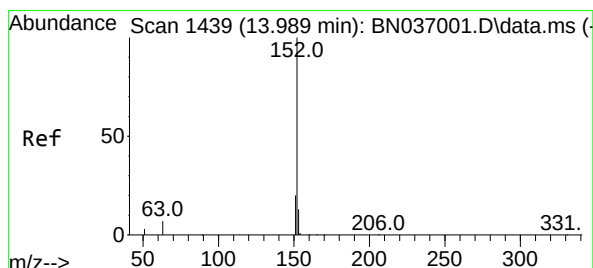
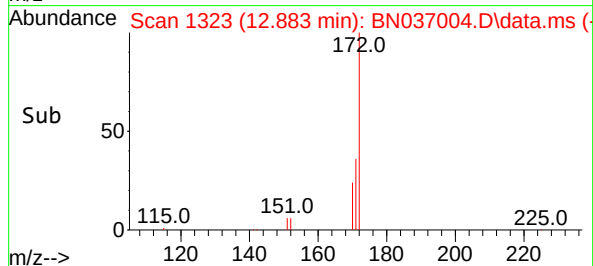
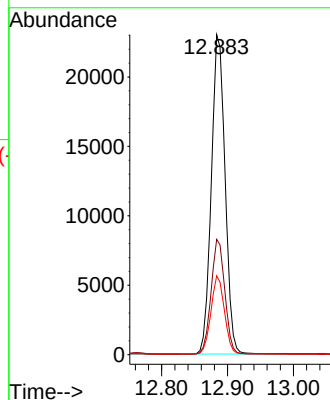
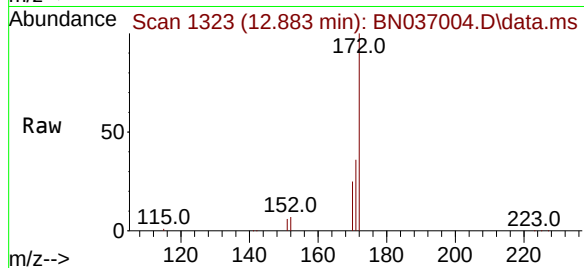
Tgt Ion:172 Resp: 33203

Ion Ratio Lower Upper

172 100

171 36.1 29.2 43.8

170 24.6 20.5 30.7



#16

Acenaphthylene

Concen: 3.282 ng

RT: 13.978 min Scan# 1438

Delta R.T. -0.011 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

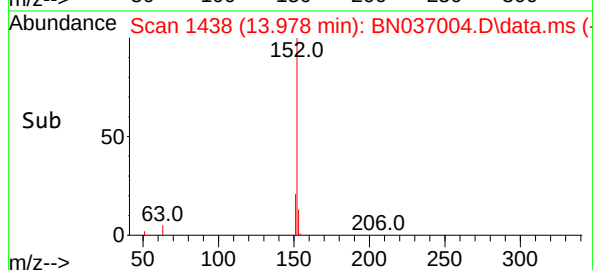
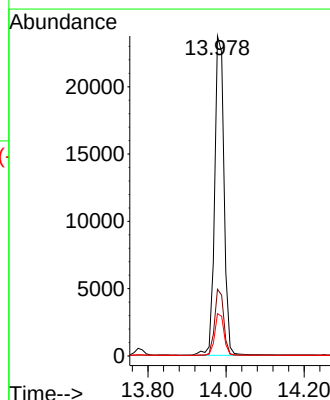
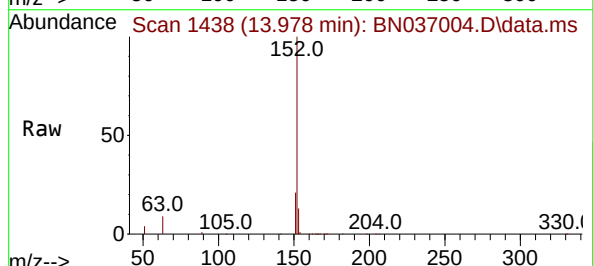
Tgt Ion:152 Resp: 39649

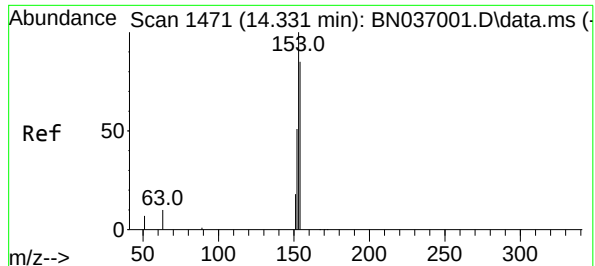
Ion Ratio Lower Upper

152 100

151 20.1 16.1 24.1

153 12.9 10.5 15.7





#17

Acenaphthene

Concen: 3.265 ng

RT: 14.331 min Scan# 1471

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

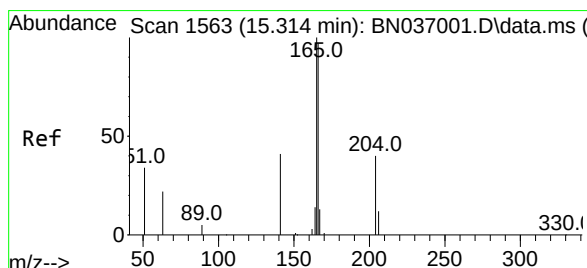
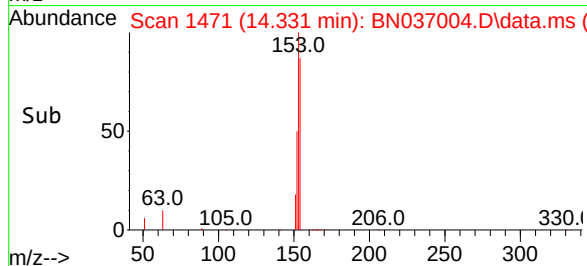
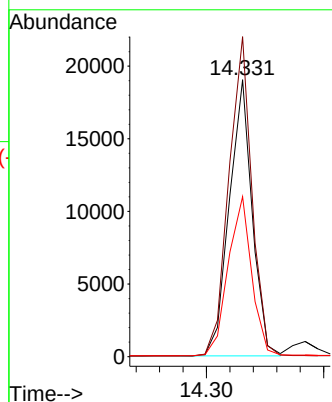
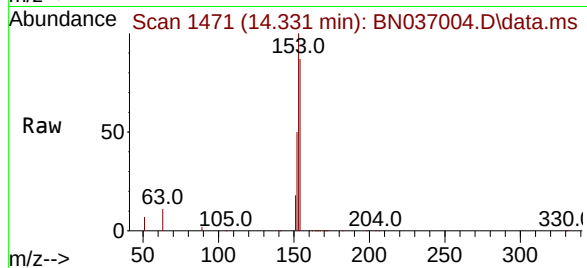
Tgt Ion:154 Resp: 25773

Ion Ratio Lower Upper

154 100

153 116.1 94.2 141.4

152 59.7 49.4 74.0



#18

Fluorene

Concen: 3.300 ng

RT: 15.314 min Scan# 1563

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

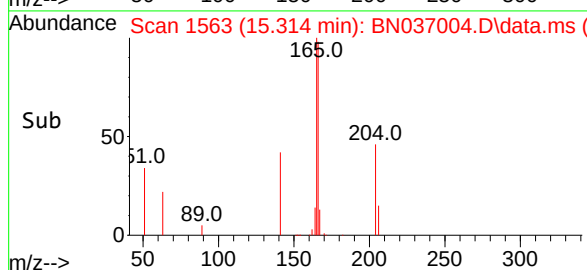
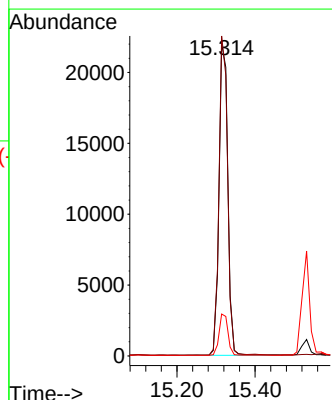
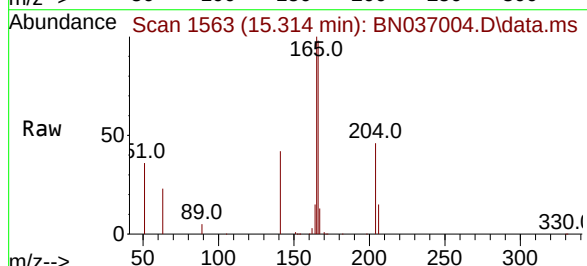
Tgt Ion:166 Resp: 34177

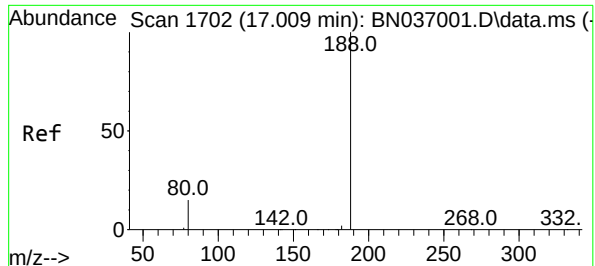
Ion Ratio Lower Upper

166 100

165 100.0 80.6 120.8

167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.009 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

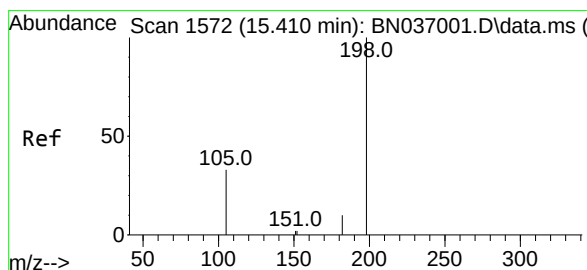
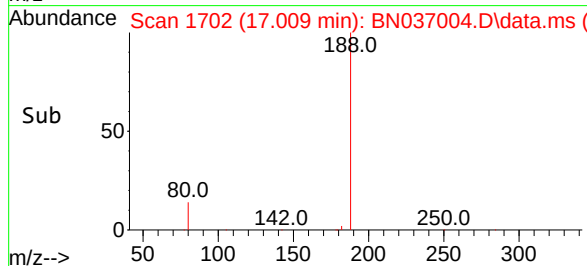
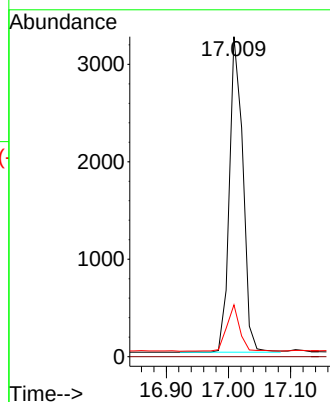
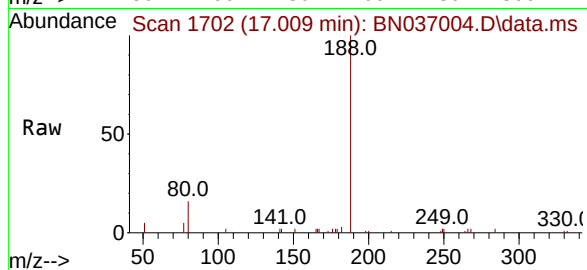
Tgt Ion:188 Resp: 4870

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.2 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 3.111 ng

RT: 15.400 min Scan# 1571

Delta R.T. -0.010 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

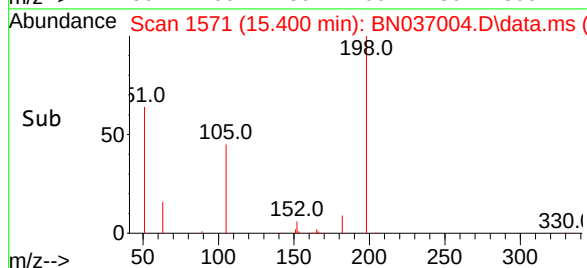
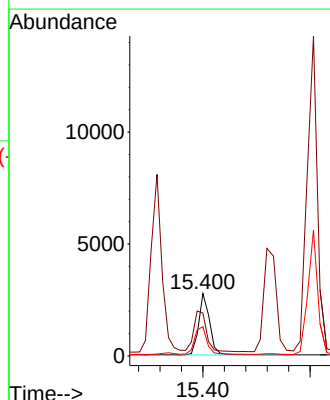
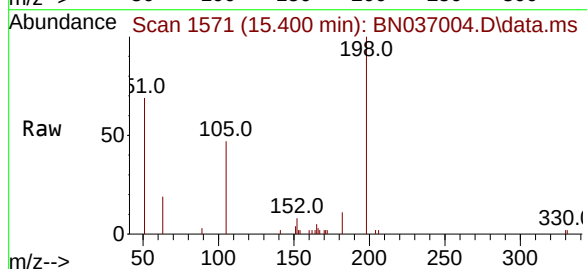
Tgt Ion:198 Resp: 4002

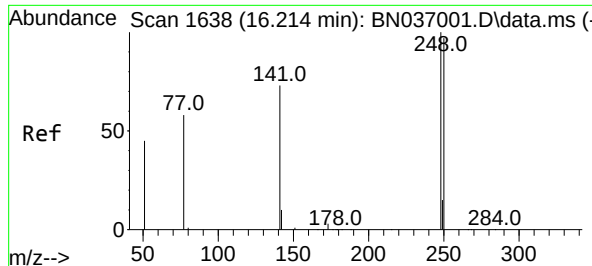
Ion Ratio Lower Upper

198 100

51 68.7 87.8 131.6#

105 47.0 44.2 66.4

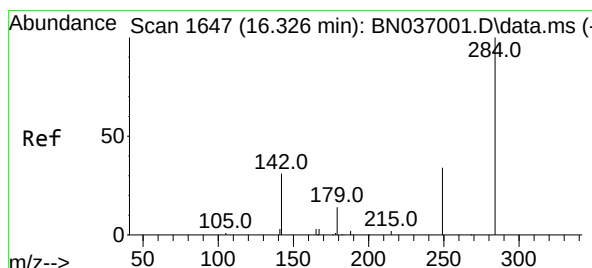
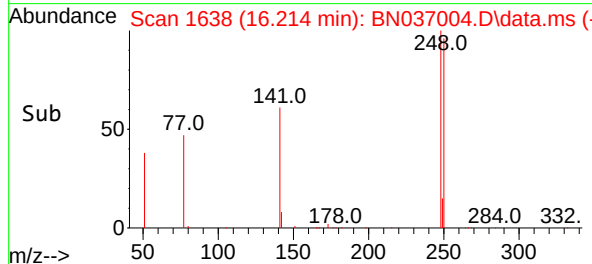
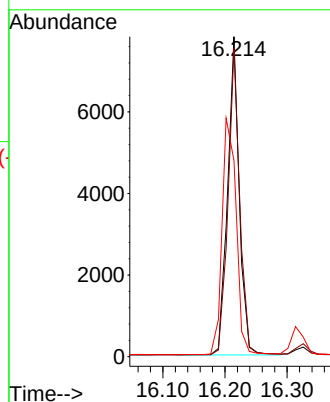
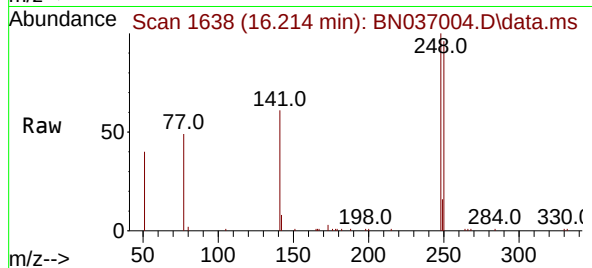




#21
4-Bromophenyl-phenylether
Concen: 3.305 ng
RT: 16.214 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

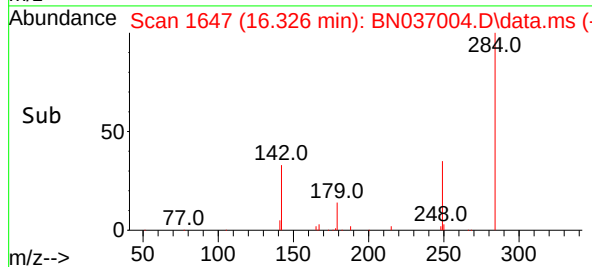
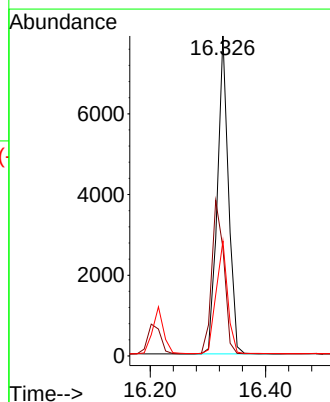
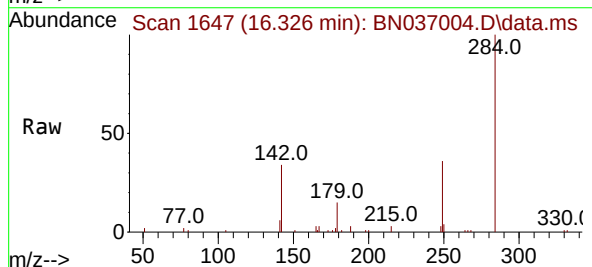
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

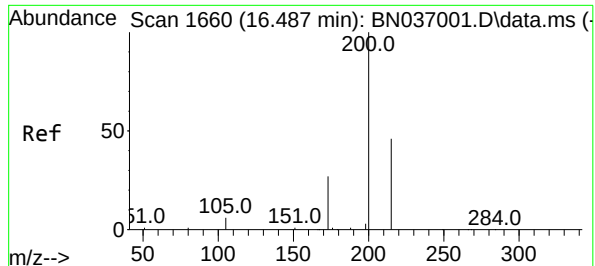
Tgt Ion	Ratio	Lower	Upper
248	100		
250	96.3	78.1	117.1
141	61.3	59.7	89.5



#22
Hexachlorobenzene
Concen: 3.189 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion	Ratio	Lower	Upper
284	100		
142	52.9	41.2	61.8
249	36.7	28.7	43.1

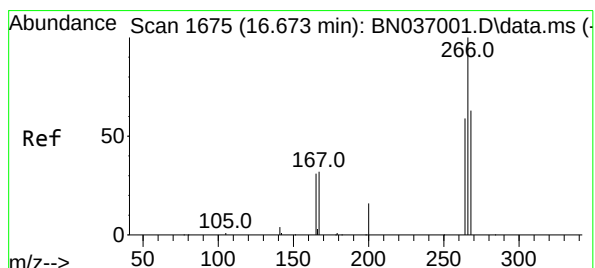
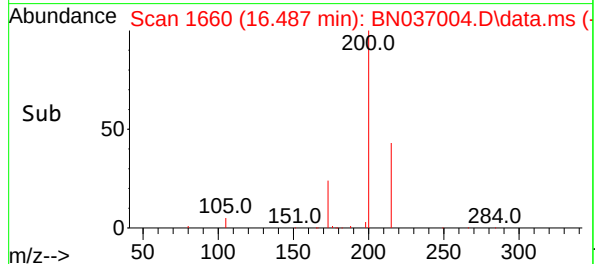
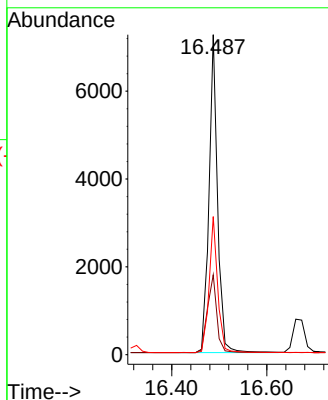
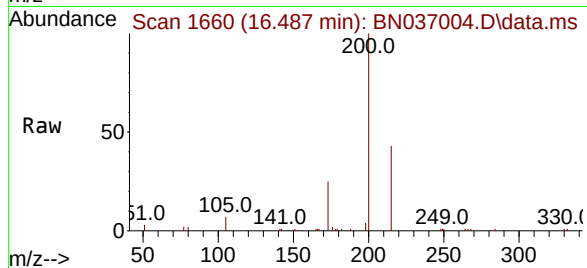




#23
Atrazine
Concen: 3.393 ng
RT: 16.487 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

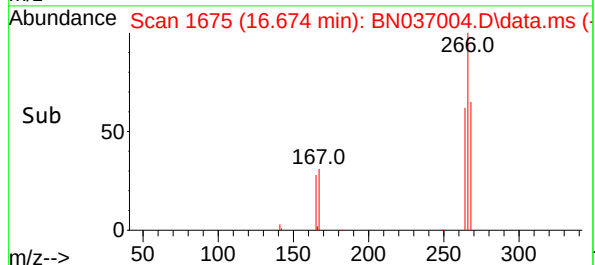
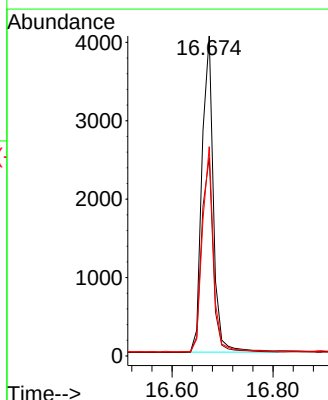
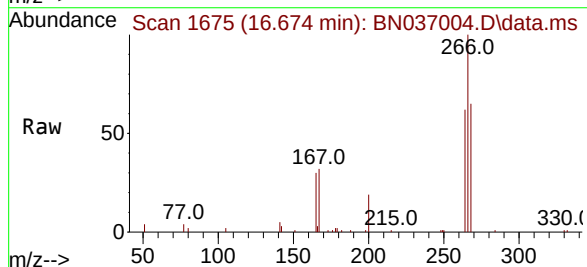
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

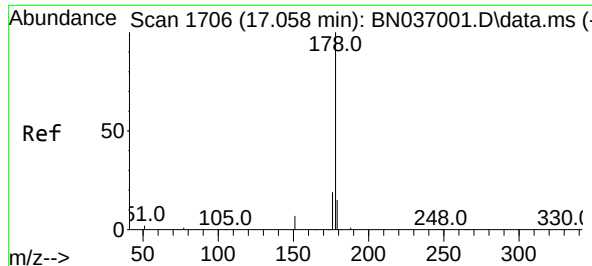
Tgt Ion	200	Resp:	9103
Ion Ratio	Lower	Upper	
200	100		
173	24.9	25.2	37.8#
215	43.2	39.3	58.9



#24
Pentachlorophenol
Concen: 3.460 ng
RT: 16.674 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion	266	Resp:	6329
Ion Ratio	Lower	Upper	
266	100		
264	62.8	47.9	71.9
268	62.9	50.0	75.0

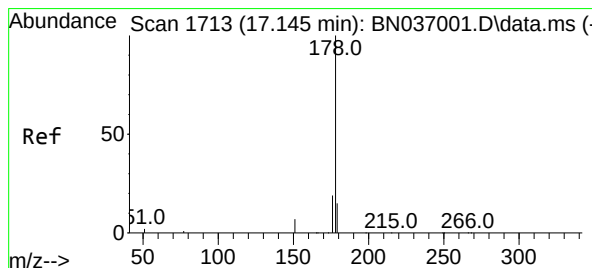
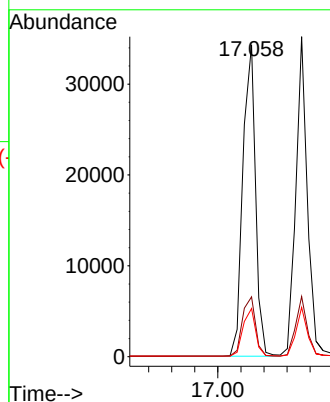
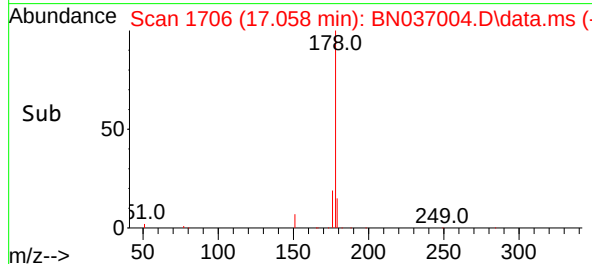
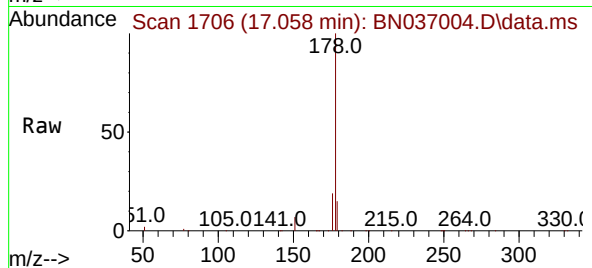




#25
Phenanthrene
Concen: 3.272 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

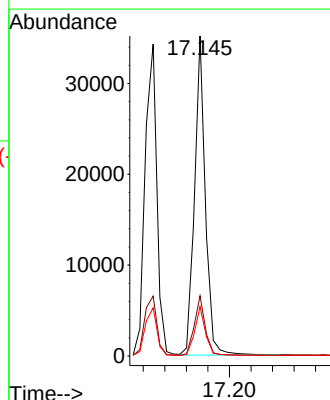
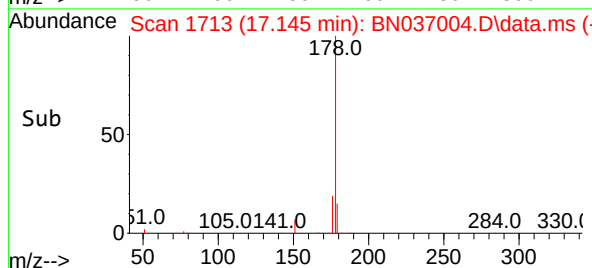
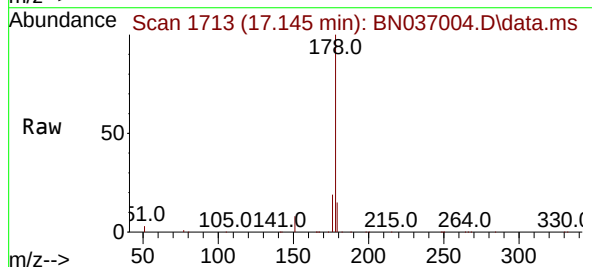
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

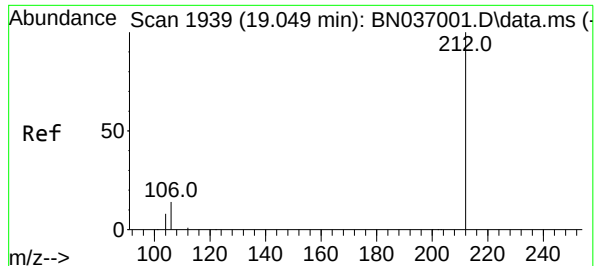
Tgt Ion:178 Resp: 52084
Ion Ratio Lower Upper
178 100
176 19.7 15.7 23.5
179 15.1 12.2 18.2



#26
Anthracene
Concen: 3.388 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:178 Resp: 49070
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.2 12.3 18.5





#27

Fluoranthene-d10

Concen: 3.388 ng

RT: 19.049 min Scan# 1939

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

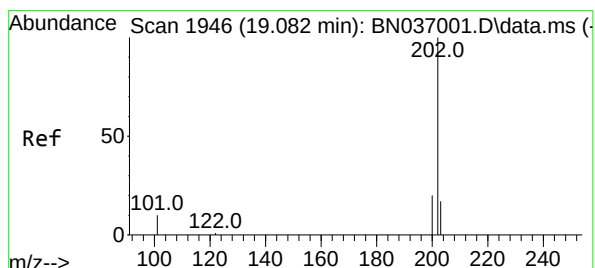
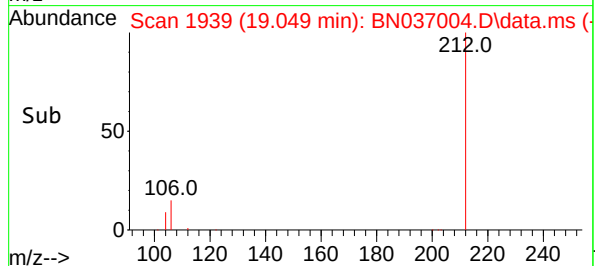
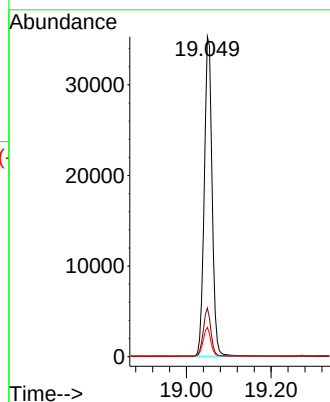
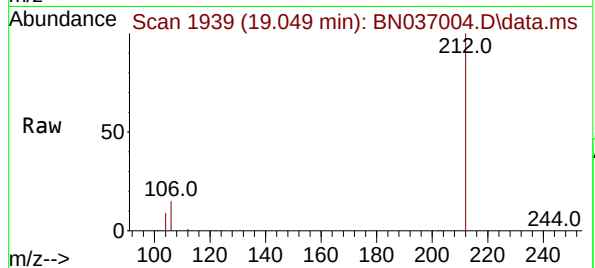
Tgt Ion:212 Resp: 45238

Ion Ratio Lower Upper

212 100

106 14.6 11.3 16.9

104 8.8 6.7 10.1



#28

Fluoranthene

Concen: 3.426 ng

RT: 19.082 min Scan# 1946

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

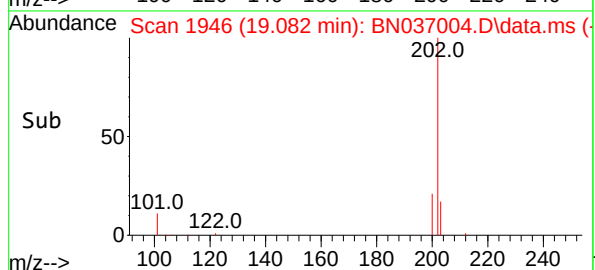
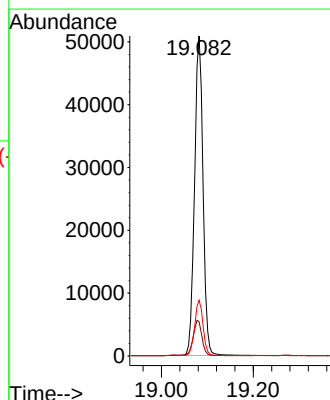
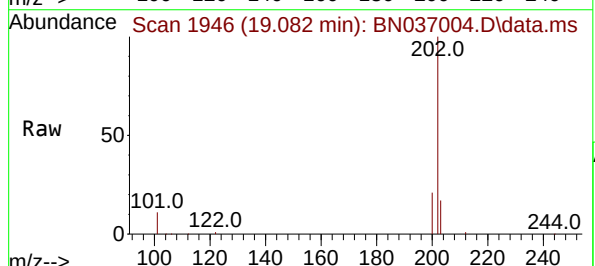
Tgt Ion:202 Resp: 65127

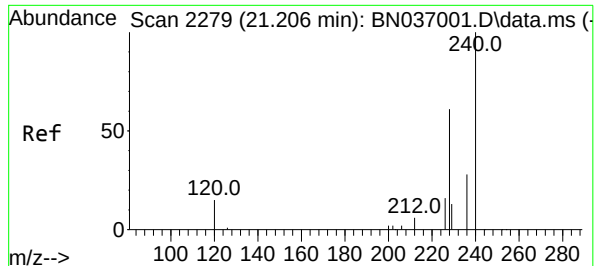
Ion Ratio Lower Upper

202 100

101 11.5 8.9 13.3

203 17.2 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.207 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

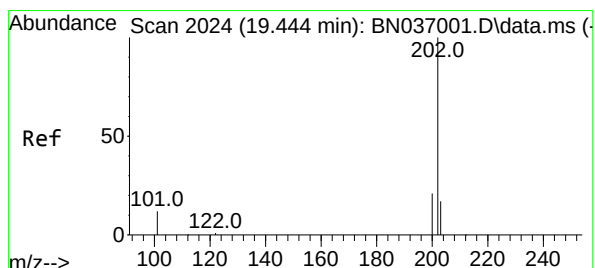
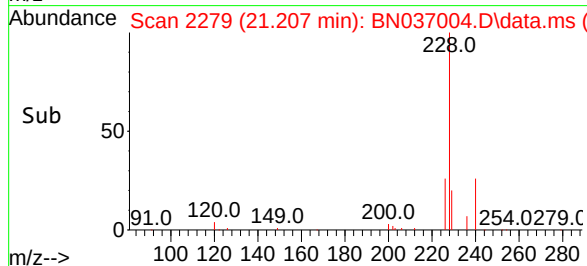
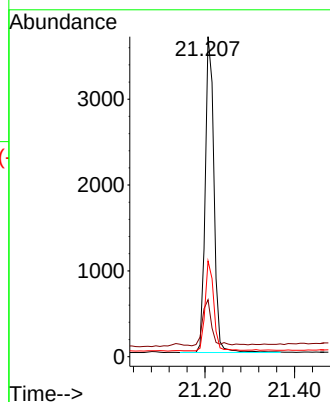
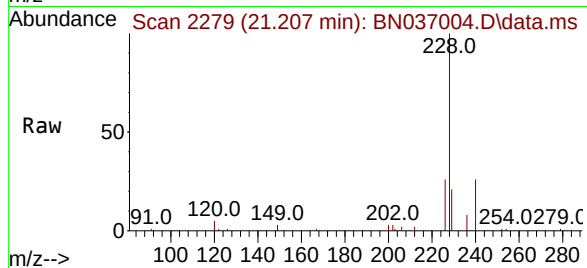
Tgt Ion:240 Resp: 5021

Ion Ratio Lower Upper

240 100

120 17.8 15.1 22.7

236 29.9 24.0 36.0



#30

Pyrene

Concen: 3.069 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

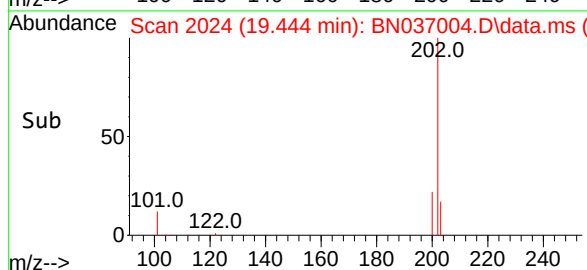
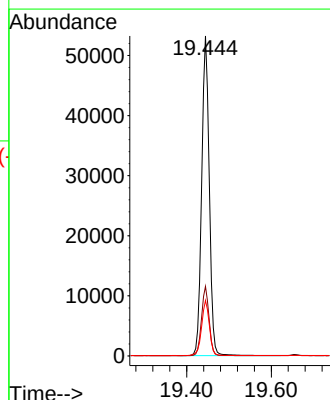
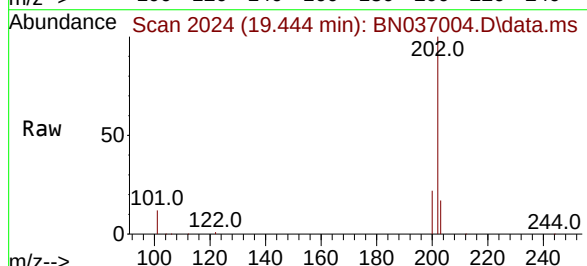
Tgt Ion:202 Resp: 65923

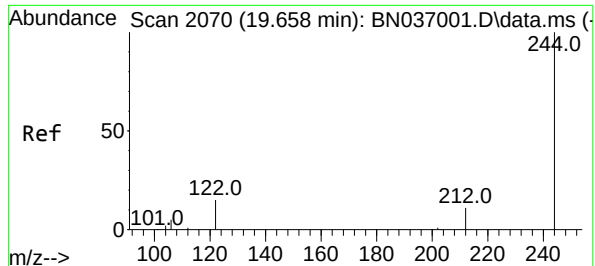
Ion Ratio Lower Upper

202 100

200 21.5 17.1 25.7

203 17.8 14.2 21.4

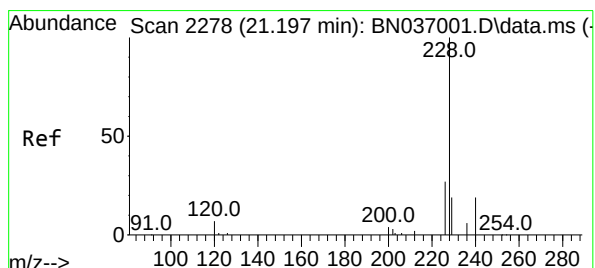
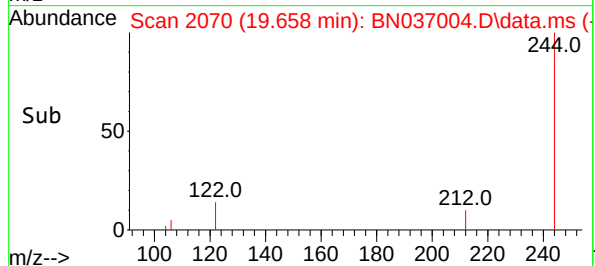
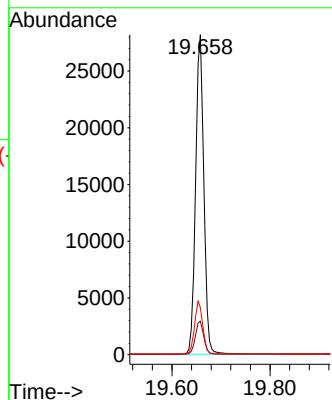
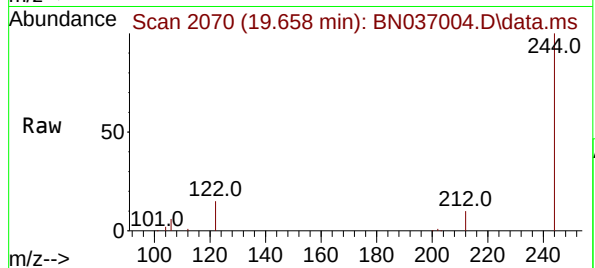




#31
Terphenyl-d14
Concen: 3.051 ng
RT: 19.658 min Scan# 2070
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

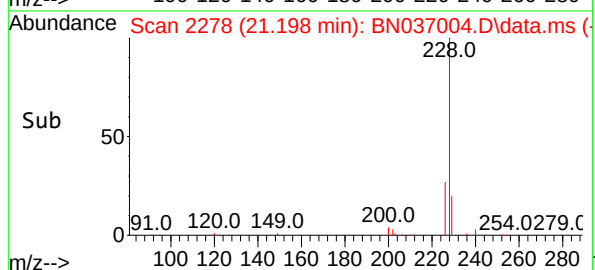
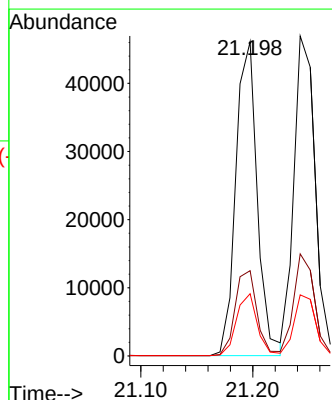
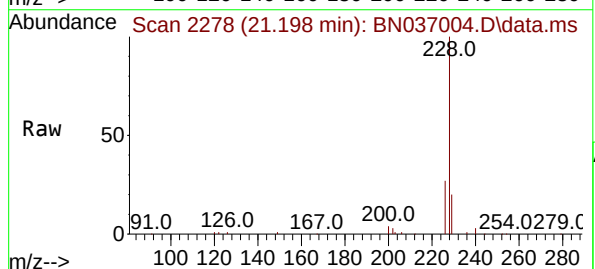
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

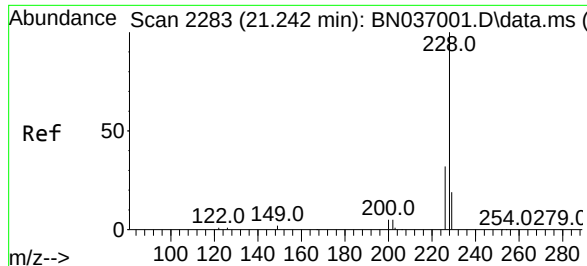
Tgt Ion:244 Resp: 32768
Ion Ratio Lower Upper
244 100
212 10.5 9.7 14.5
122 14.7 13.4 20.0



#32
Benzo(a)anthracene
Concen: 3.232 ng
RT: 21.198 min Scan# 2278
Delta R.T. 0.000 min
Lab File: BN037004.D
Acq: 13 May 2025 20:41

Tgt Ion:228 Resp: 61105
Ion Ratio Lower Upper
228 100
226 27.1 22.2 33.4
229 19.8 16.0 24.0





#33

Chrysene

Concen: 3.134 ng

RT: 21.242 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

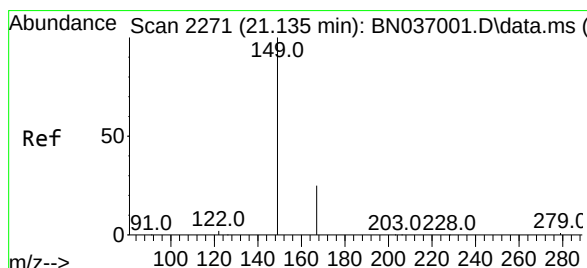
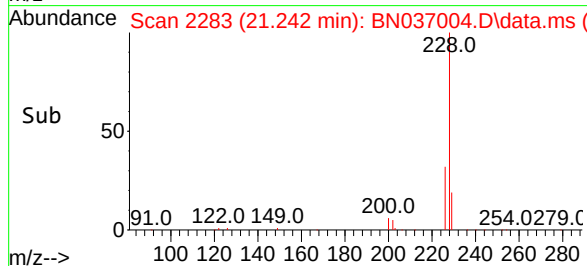
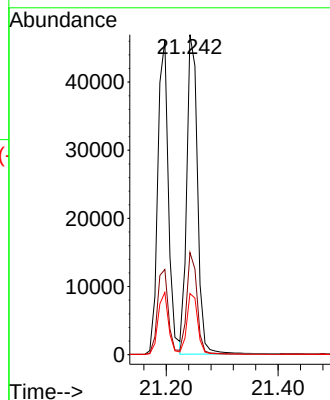
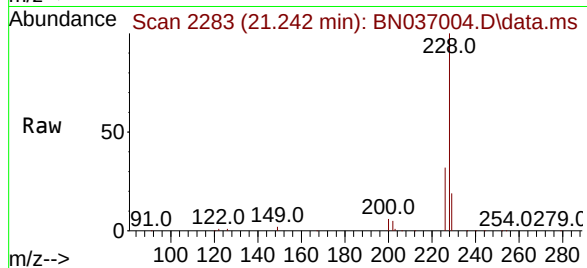
Tgt Ion:228 Resp: 62672

Ion Ratio Lower Upper

228 100

226 31.9 26.3 39.5

229 19.1 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.113 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

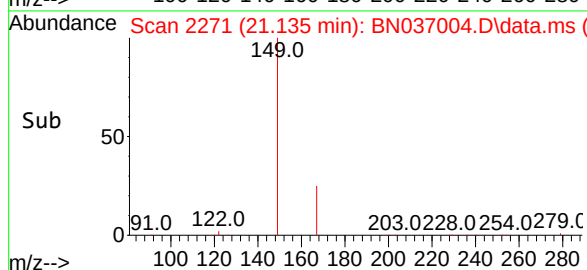
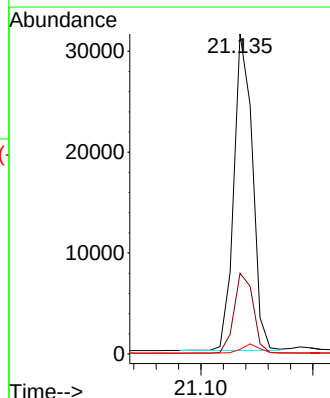
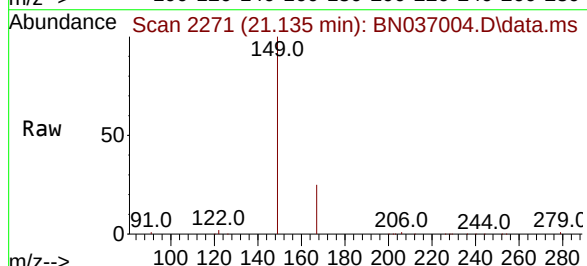
Tgt Ion:149 Resp: 36266

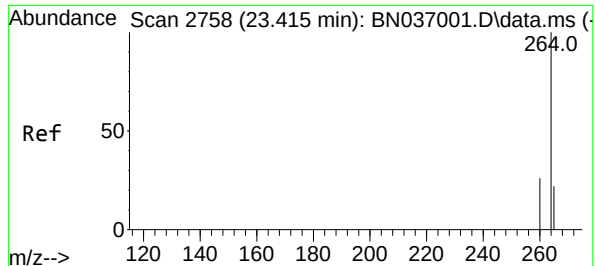
Ion Ratio Lower Upper

149 100

167 26.0 20.6 30.8

279 2.7 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.415 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

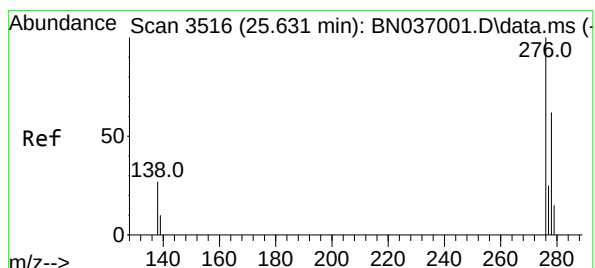
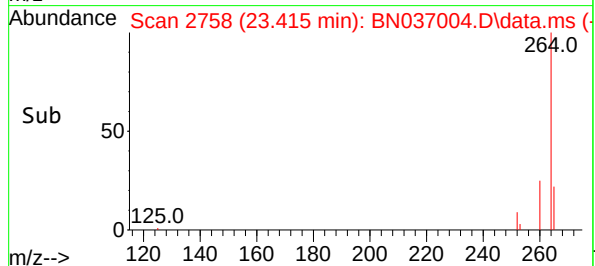
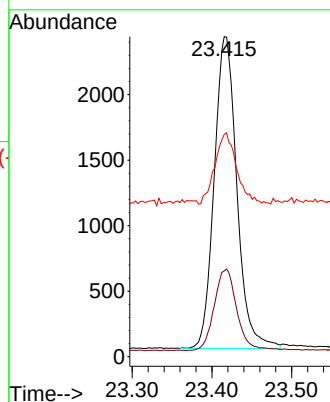
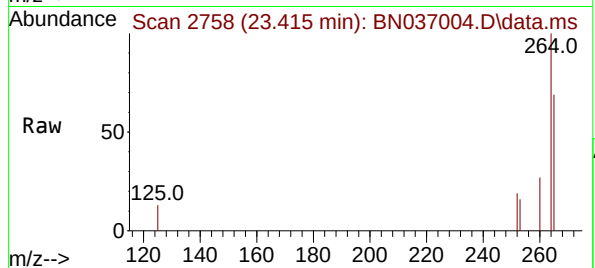
Tgt Ion:264 Resp: 4705

Ion Ratio Lower Upper

264 100

260 26.8 21.9 32.9

265 69.5 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.393 ng

RT: 25.631 min Scan# 3516

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

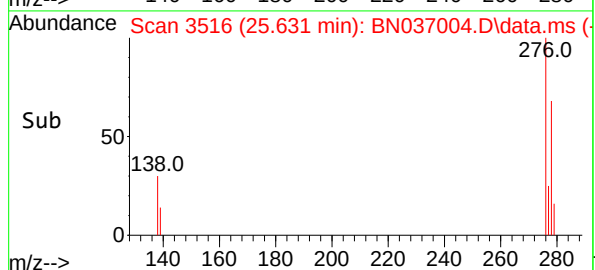
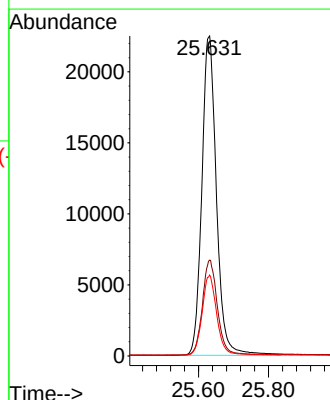
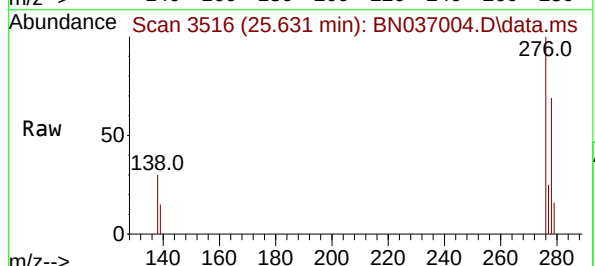
Tgt Ion:276 Resp: 65193

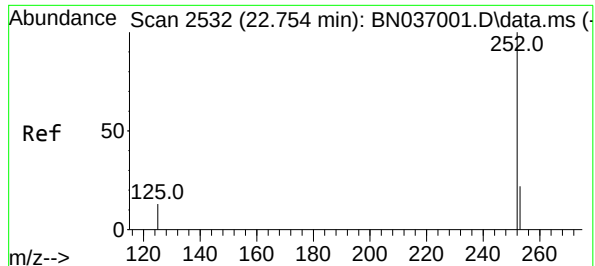
Ion Ratio Lower Upper

276 100

138 30.4 22.7 34.1

277 25.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 3.277 ng

RT: 22.755 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

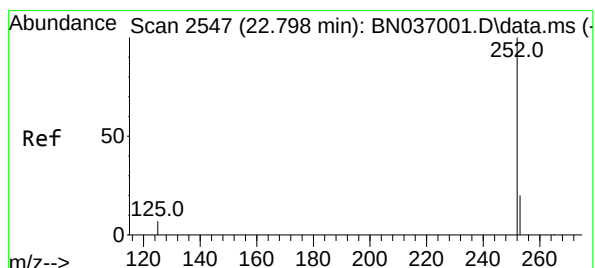
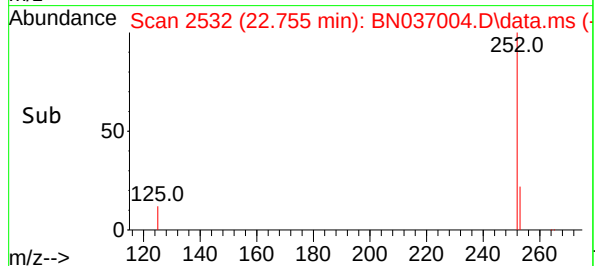
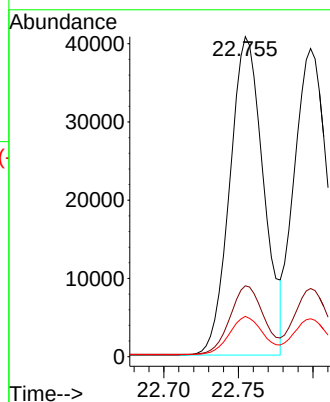
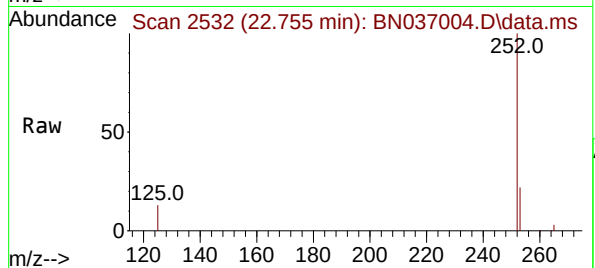
Tgt Ion:252 Resp: 63928

Ion Ratio Lower Upper

252 100

253 22.2 21.8 32.6

125 12.6 14.6 21.8#



#38

Benzo(k)fluoranthene

Concen: 3.245 ng

RT: 22.798 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

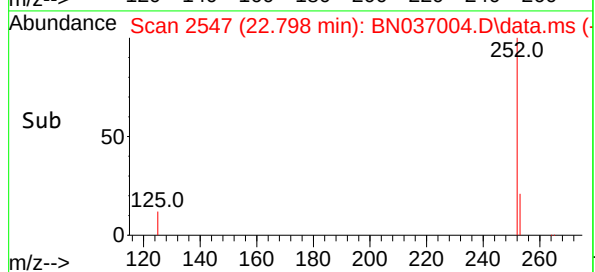
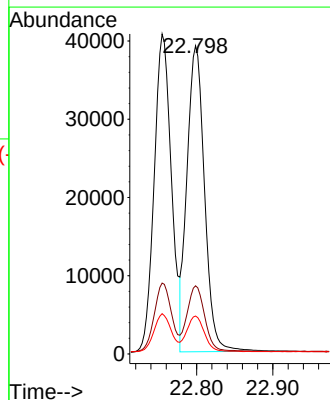
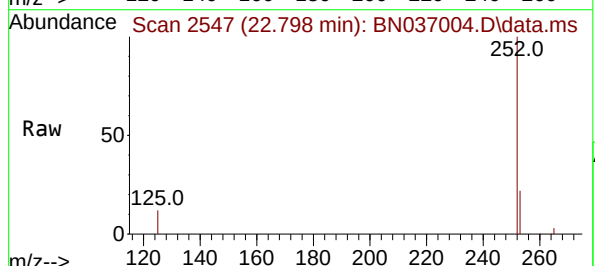
Tgt Ion:252 Resp: 62537

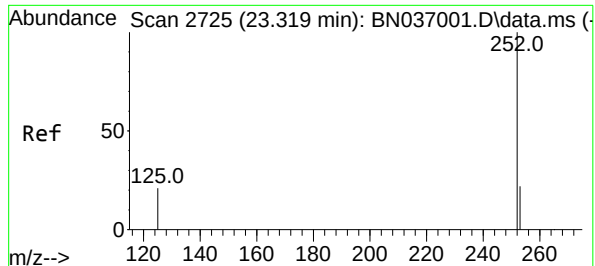
Ion Ratio Lower Upper

252 100

253 22.1 21.4 32.2

125 12.3 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 3.284 ng

RT: 23.319 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037004.D

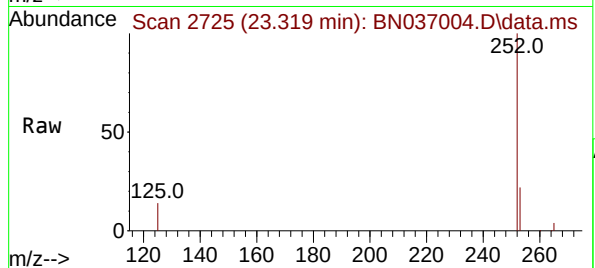
Acq: 13 May 2025 20:41

Instrument :

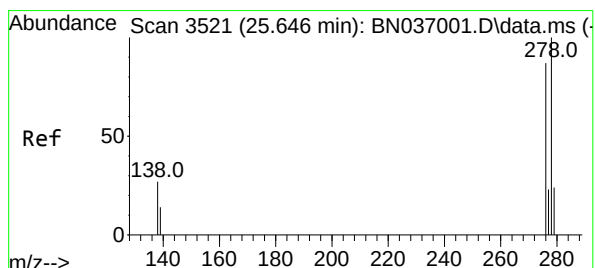
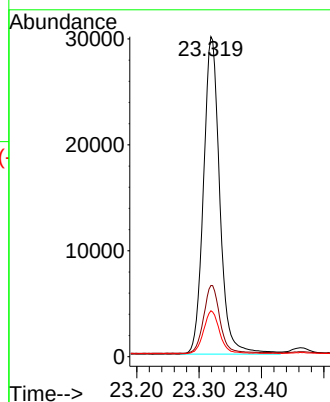
BNA_N

ClientSampleId :

SSTDICC3.2



Tgt Ion:	252	Resp:	54366
Ion Ratio	Lower	Upper	
252	100		
253	22.3	23.8	35.6#
125	14.4	21.8	32.6#



#40

Dibenzo(a,h)anthracene

Concen: 3.460 ng

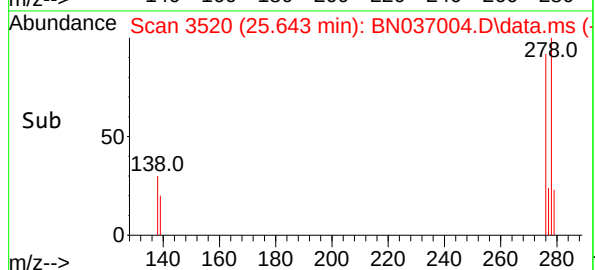
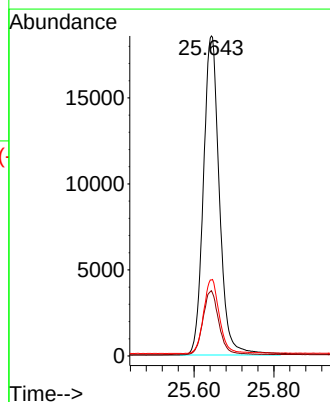
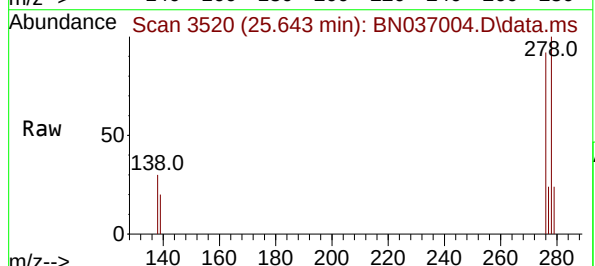
RT: 25.643 min Scan# 3520

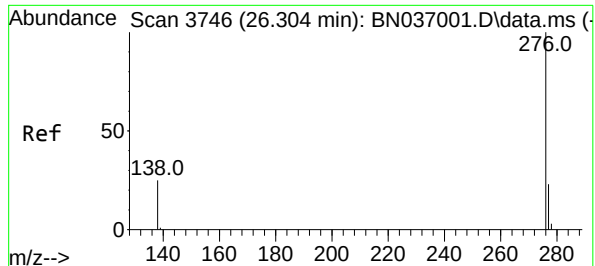
Delta R.T. -0.003 min

Lab File: BN037004.D

Acq: 13 May 2025 20:41

Tgt Ion:	278	Resp:	51783
Ion Ratio	Lower	Upper	
278	100		
139	20.4	17.4	26.0
279	23.7	24.6	37.0#





#41

Benzo(g,h,i)perylene

Concen: 3.331 ng

RT: 26.304 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037004.D

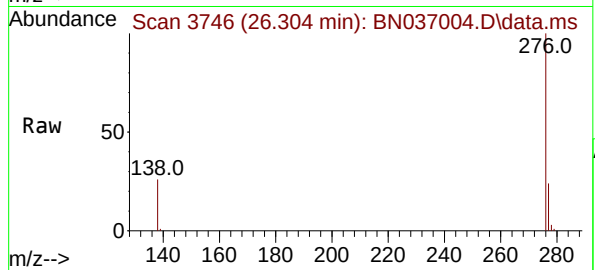
Acq: 13 May 2025 20:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



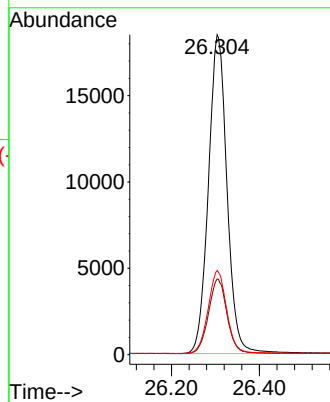
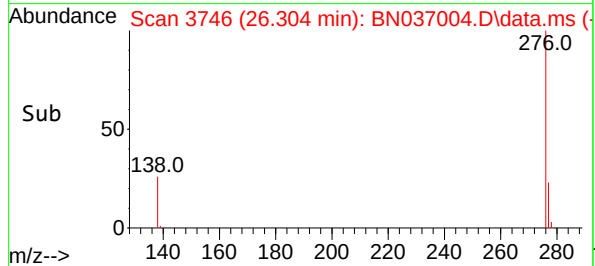
Tgt Ion:276 Resp: 54177

Ion Ratio Lower Upper

276 100

277 23.6 20.2 30.4

138 26.3 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037005.D
 Acq On : 13 May 2025 21:17
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: May 14 11:02:18 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 10:57:36 2025
 Response via : Initial Calibration

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

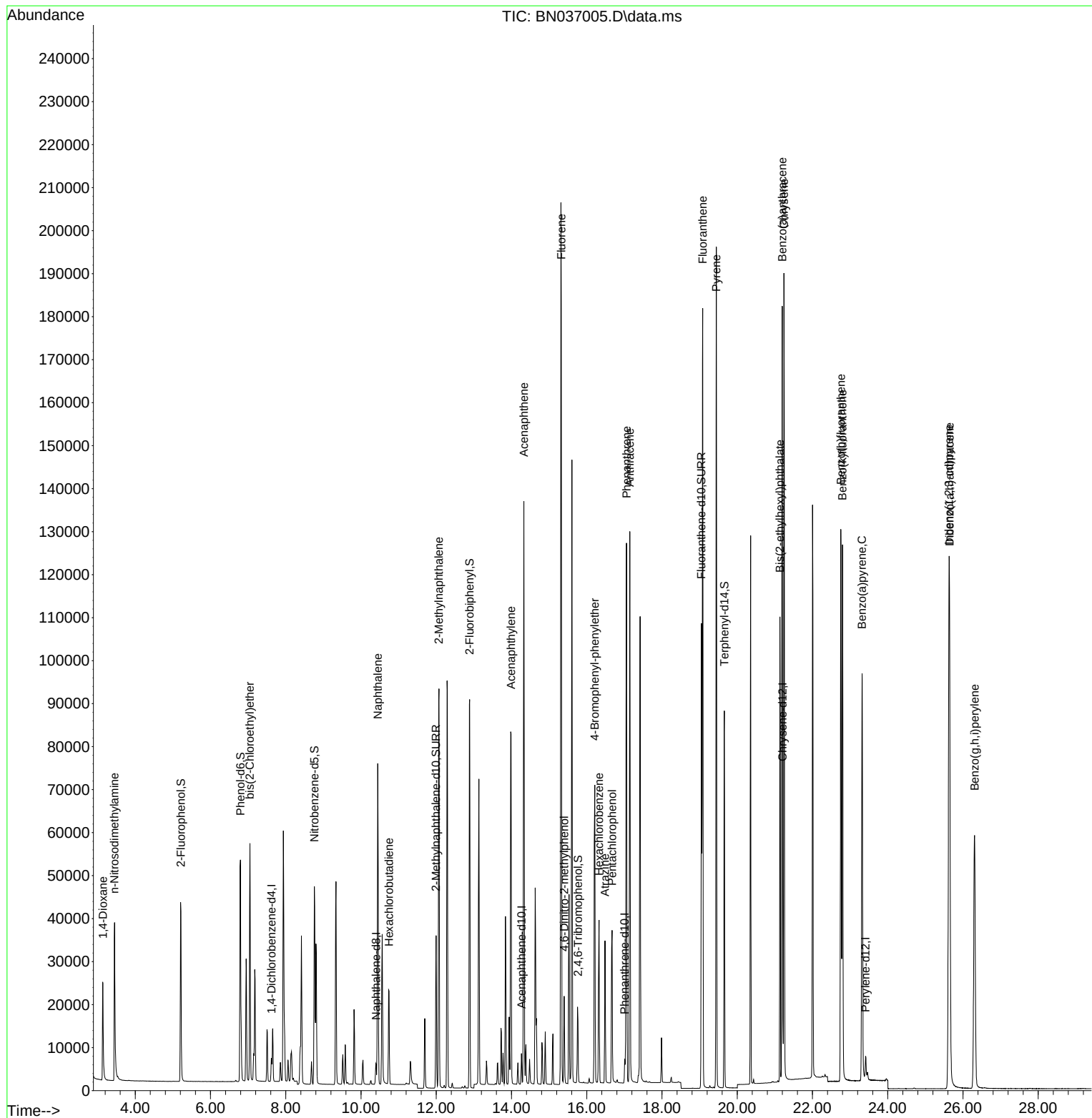
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	2402	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	6211	0.400	ng	0.00
13) Acenaphthene-d10	14.266	164	3660	0.400	ng	0.00
19) Phenanthrene-d10	17.008	188	7377	0.400	ng	0.00
29) Chrysene-d12	21.206	240	7435	0.400	ng	0.00
35) Perylene-d12	23.412	264	6657	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	29155	4.633	ng	0.00
5) Phenol-d6	6.794	99	38800	4.928	ng	0.00
8) Nitrobenzene-d5	8.760	82	34333	5.077	ng	-0.01
11) 2-Methylnaphthalene-d10	11.995	152	45677	5.225	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	8654	5.383	ng	0.00
15) 2-Fluorobiphenyl	12.888	172	82658	4.932	ng	0.00
27) Fluoranthene-d10	19.049	212	108672	5.372	ng	0.00
31) Terphenyl-d14	19.658	244	78766	4.953	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.140	88	13630	4.624	ng	98
3) n-Nitrosodimethylamine	3.443	42	28520	4.504	ng	# 95
6) bis(2-Chloroethyl)ether	7.047	93	34458	4.755	ng	99
9) Naphthalene	10.447	128	90412	4.926	ng	96
10) Hexachlorobutadiene	10.745	225	18076	4.692	ng	# 100
12) 2-Methylnaphthalene	12.072	142	61370	5.199	ng	98
16) Acenaphthylene	13.988	152	94911	5.328	ng	100
17) Acenaphthene	14.330	154	60171	5.169	ng	97
18) Fluorene	15.325	166	80175	5.250	ng	99
20) 4,6-Dinitro-2-methylph...	15.399	198	11401	5.020	ng	# 77
21) 4-Bromophenyl-phenylether	16.214	248	23877	5.124	ng	93
22) Hexachlorobenzene	16.325	284	24597	4.931	ng	100
23) Atrazine	16.487	200	22281	5.483	ng	91
24) Pentachlorophenol	16.673	266	16300	5.883	ng	97
25) Phenanthrene	17.058	178	125493	5.205	ng	100
26) Anthracene	17.145	178	119884	5.464	ng	100
28) Fluoranthene	19.081	202	156131	5.421	ng	99
30) Pyrene	19.444	202	159039	5.001	ng	100
32) Benzo(a)anthracene	21.197	228	149524	5.341	ng	99
33) Chrysene	21.242	228	146457	4.946	ng	98
34) Bis(2-ethylhexyl)phtha...	21.134	149	93938	5.445	ng	99
36) Indeno(1,2,3-cd)pyrene	25.628	276	139772	5.141	ng	97
37) Benzo(b)fluoranthene	22.754	252	146896	5.323	ng	# 89
38) Benzo(k)fluoranthene	22.798	252	143001	5.244	ng	# 90
39) Benzo(a)pyrene	23.318	252	123679	5.280	ng	# 80
40) Dibenzo(a,h)anthracene	25.643	278	111001	5.241	ng	# 91
41) Benzo(g,h,i)perylene	26.309	276	114459	4.975	ng	98

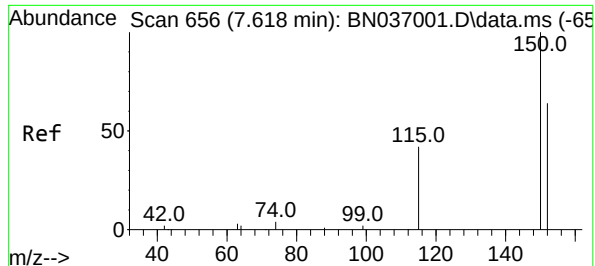
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037005.D
Acq On : 13 May 2025 21:17
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

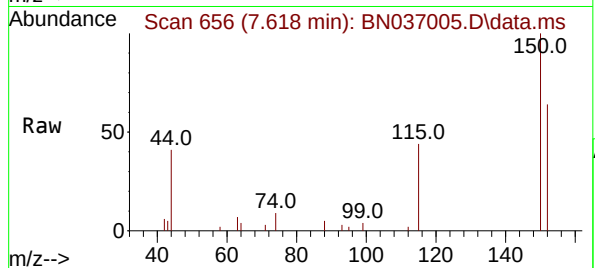
Quant Time: May 14 11:02:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 10:57:36 2025
Response via : Initial Calibration



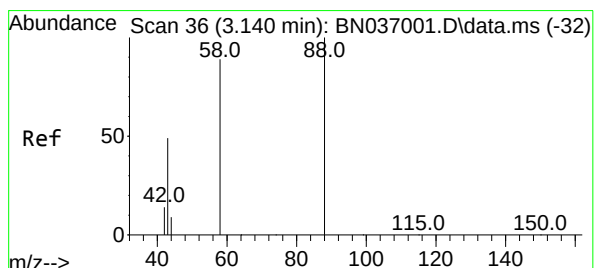
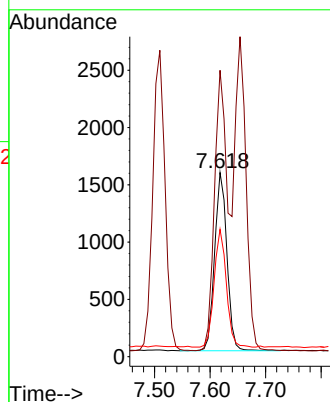
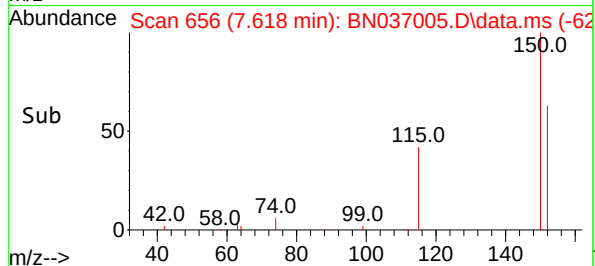


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.618 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

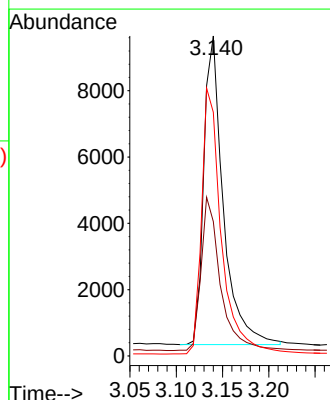
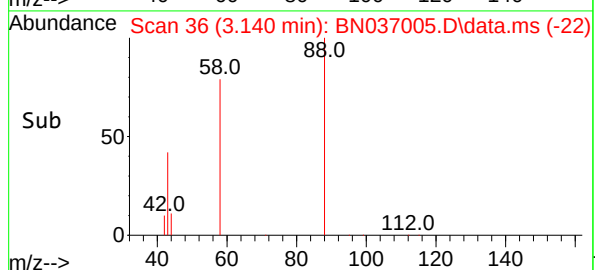
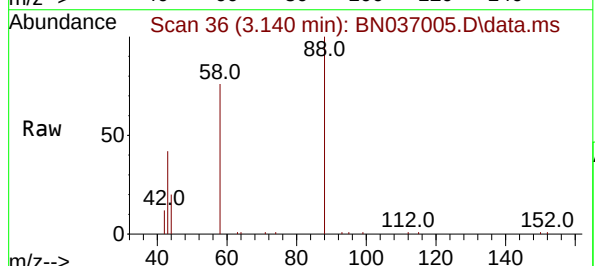


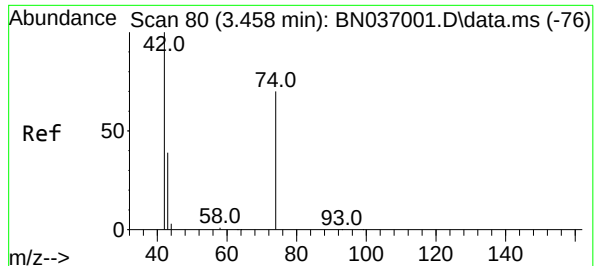
Tgt Ion:152 Resp: 2402
Ion Ratio Lower Upper
152 100
150 155.6 123.9 185.9
115 69.1 55.8 83.8



#2
1,4-Dioxane
Concen: 4.624 ng
RT: 3.140 min Scan# 36
Delta R.T. 0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion: 88 Resp: 13630
Ion Ratio Lower Upper
88 100
43 49.2 37.4 56.0
58 87.5 68.8 103.2

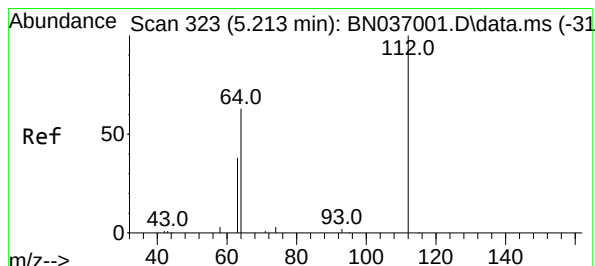
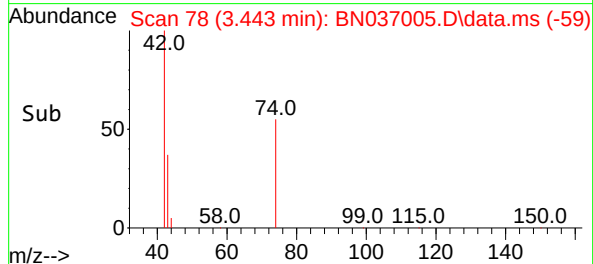
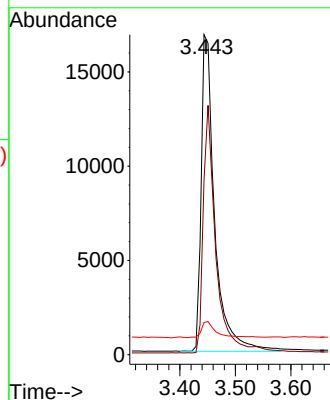
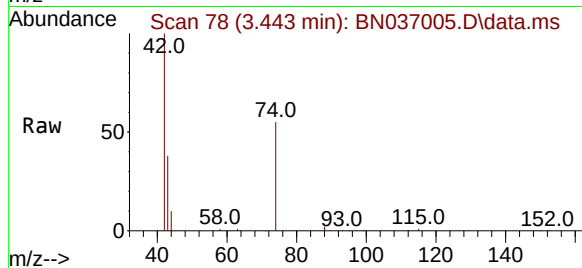




#3
n-Nitrosodimethylamine
Concen: 4.504 ng
RT: 3.443 min Scan# 71
Delta R.T. -0.015 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

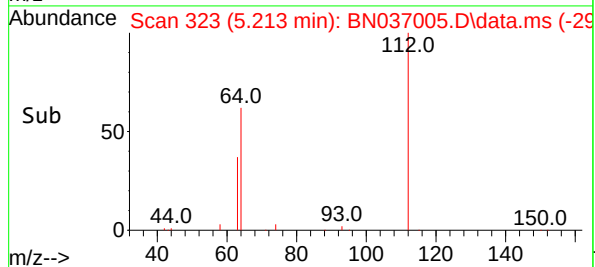
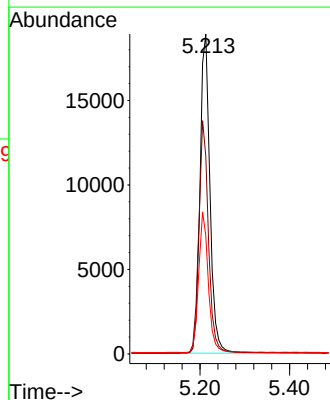
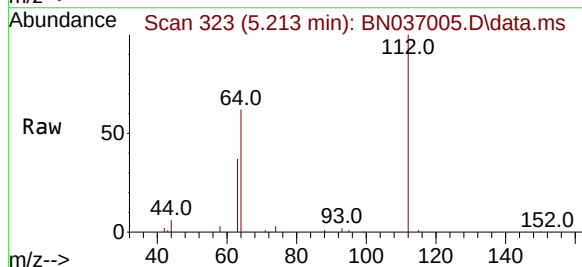
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

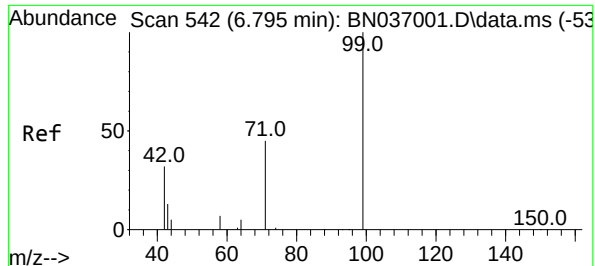
Tgt Ion:	42	Resp:	28520
Ion	Ratio	Lower	Upper
42	100		
74	73.2	59.8	89.6
44	5.5	11.9	17.9



#4
2-Fluorophenol
Concen: 4.633 ng
RT: 5.213 min Scan# 323
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:	112	Resp:	29155
Ion	Ratio	Lower	Upper
112	100		
64	70.8	55.7	83.5
63	42.9	34.6	51.8

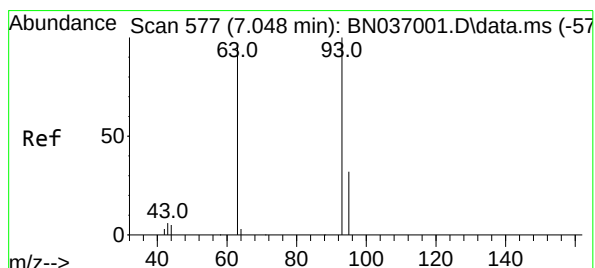
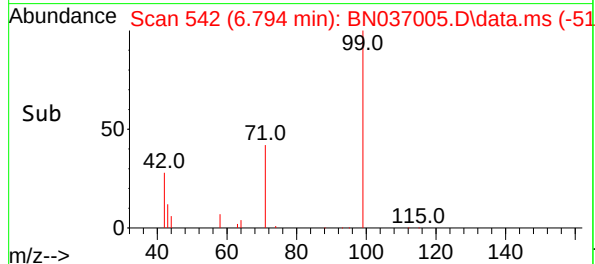
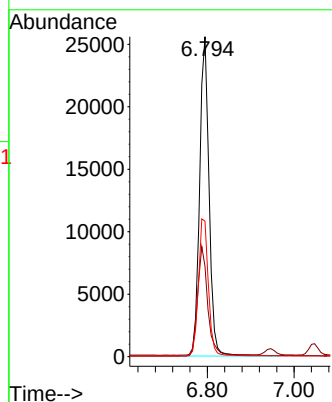
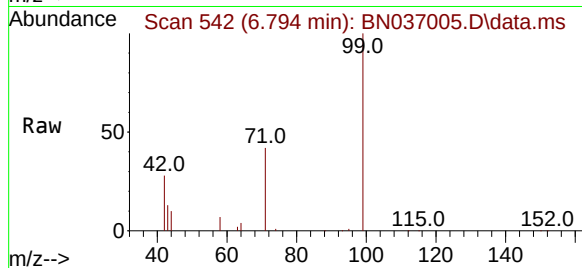




#5
Phenol-d6
Concen: 4.928 ng
RT: 6.794 min Scan# 542
Delta R.T. -0.001 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

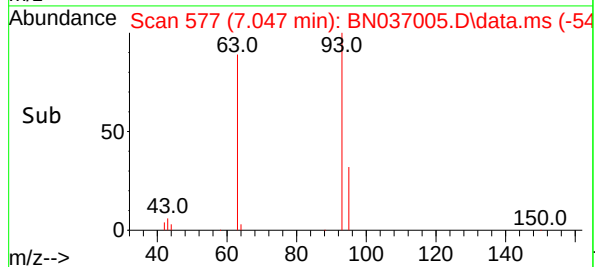
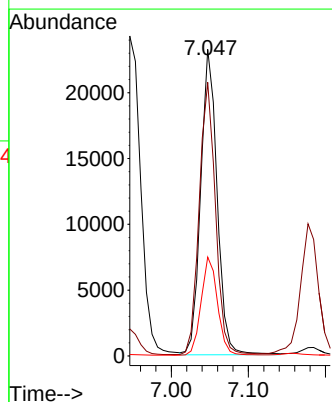
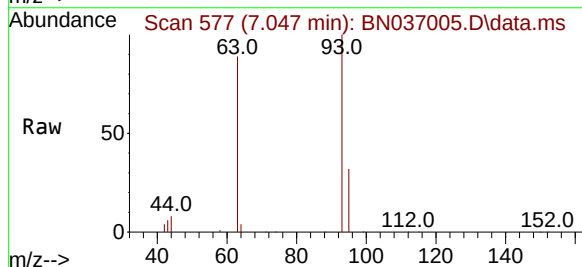
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

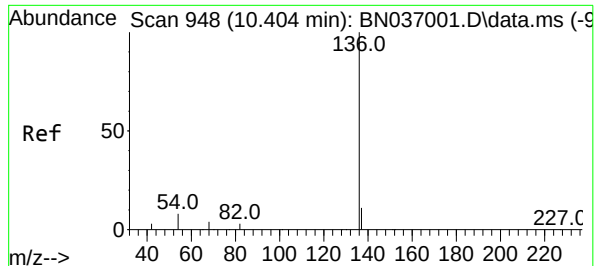
Tgt Ion: 99 Resp: 38800
Ion Ratio Lower Upper
99 100
42 35.9 29.3 43.9
71 45.2 35.7 53.5



#6
bis(2-Chloroethyl)ether
Concen: 4.755 ng
RT: 7.047 min Scan# 577
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion: 93 Resp: 34458
Ion Ratio Lower Upper
93 100
63 88.0 70.1 105.1
95 32.1 26.2 39.2

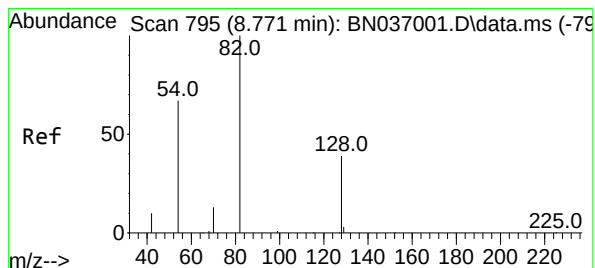
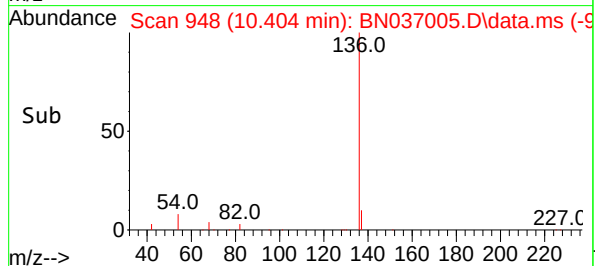
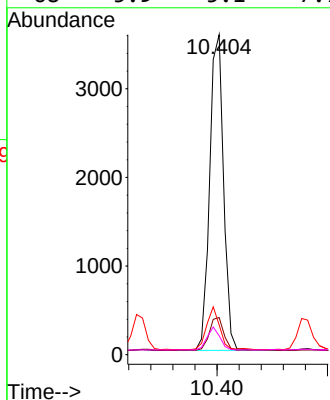
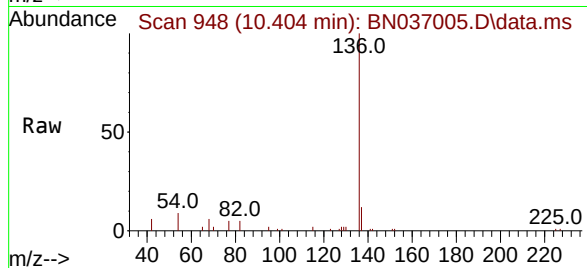




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

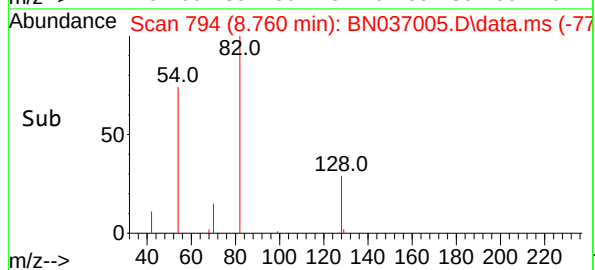
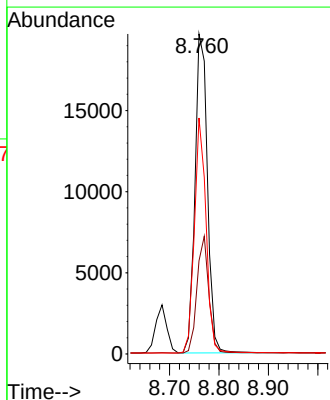
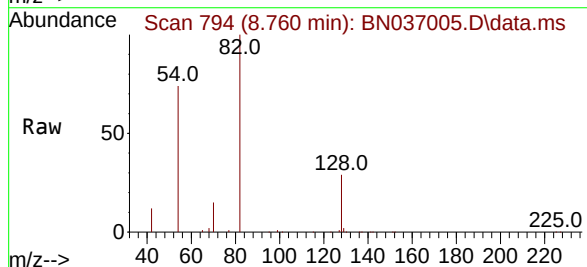
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

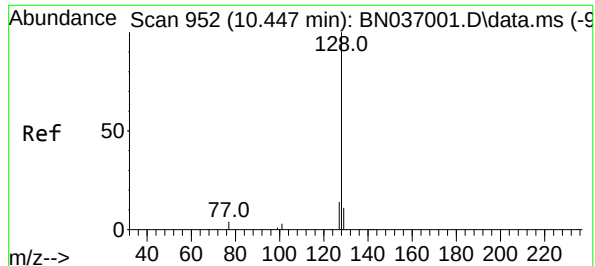
Tgt Ion:	136	Resp:	6211
Ion	Ratio	Lower	Upper
136	100		
137	11.6	10.4	15.6
54	9.3	8.5	12.7
68	5.9	5.1	7.7



#8
Nitrobenzene-d5
Concen: 5.077 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:	82	Resp:	34333
Ion	Ratio	Lower	Upper
82	100		
128	29.1	34.0	51.0#
54	73.7	55.0	82.4

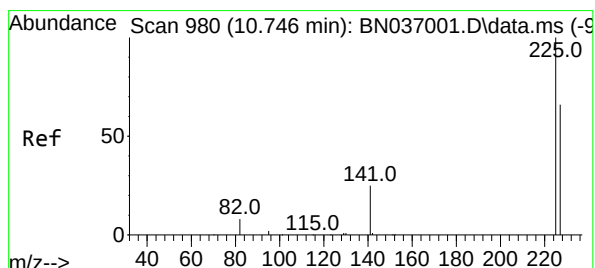
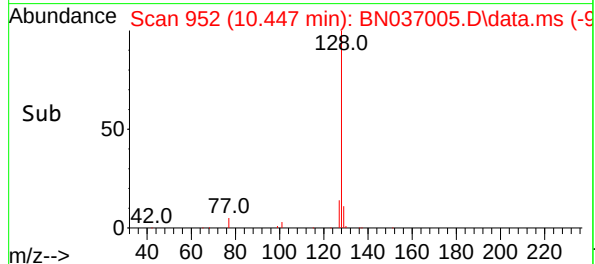
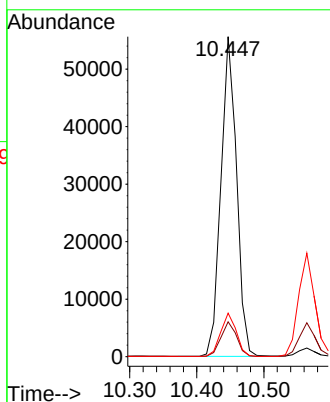
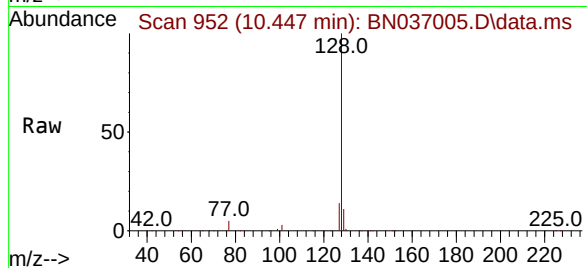




#9
Naphthalene
Concen: 4.926 ng
RT: 10.447 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

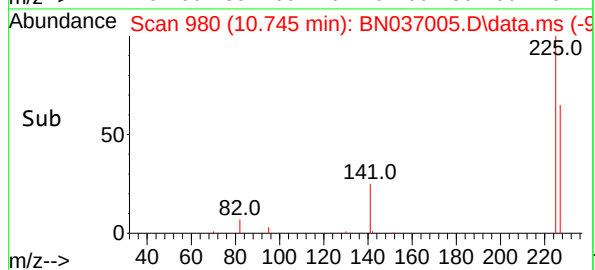
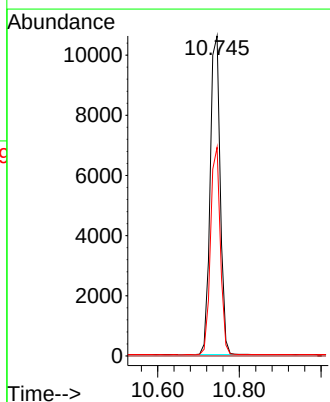
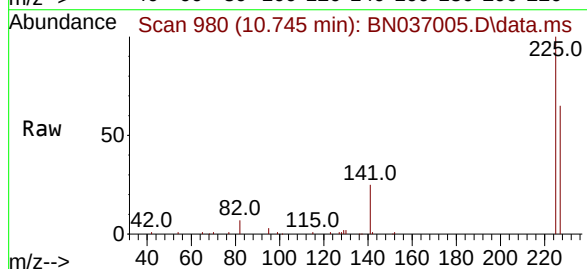
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

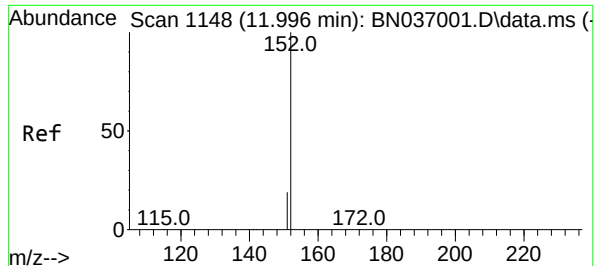
Tgt Ion	128	129	127
Resp:	90412	10.9	13.6
Lower		9.7	12.4
Upper		14.5	18.6



#10
Hexachlorobutadiene
Concen: 4.692 ng
RT: 10.745 min Scan# 980
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion	225	223	227
Resp:	18076	0.0	63.6
Lower		0.0	50.9
Upper		0.0	76.3

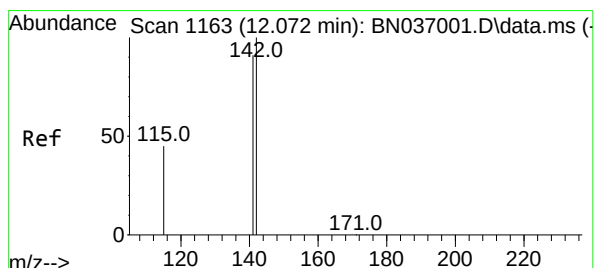
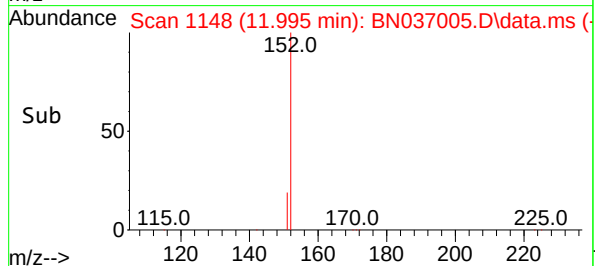
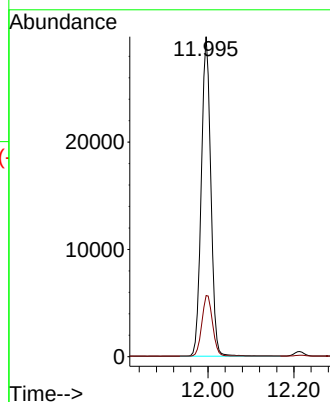
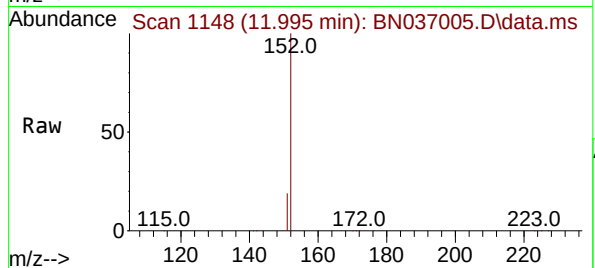




#11
2-Methylnaphthalene-d10
Concen: 5.225 ng
RT: 11.995 min Scan# 1148
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

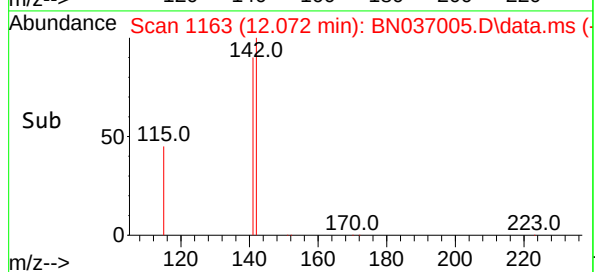
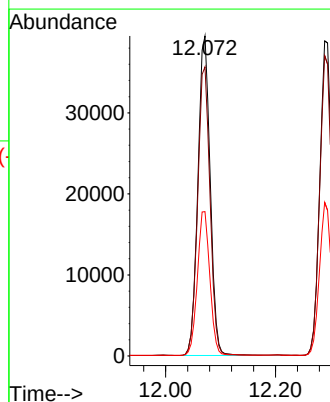
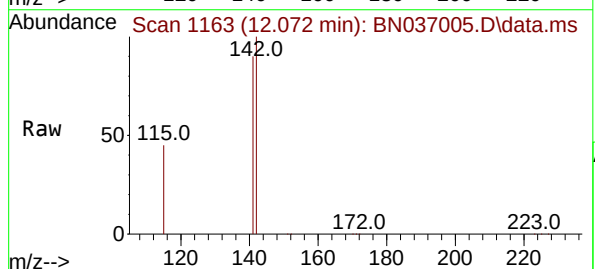
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

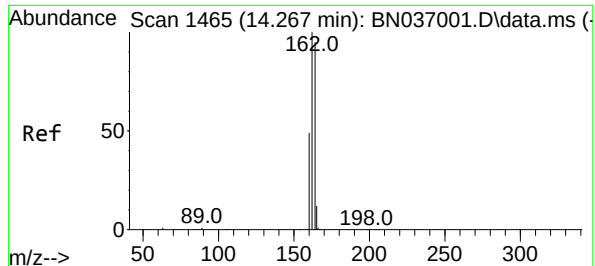
Tgt Ion:152 Resp: 45677
Ion Ratio Lower Upper
152 100
151 21.3 17.5 26.3



#12
2-Methylnaphthalene
Concen: 5.199 ng
RT: 12.072 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:142 Resp: 61370
Ion Ratio Lower Upper
142 100
141 90.3 73.3 109.9
115 45.1 38.4 57.6

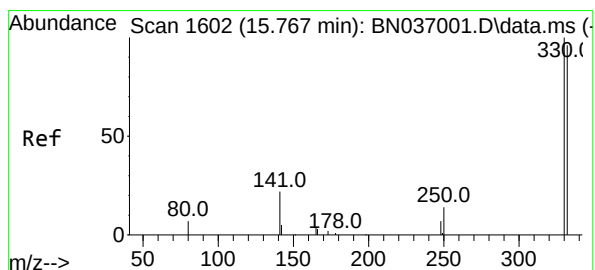
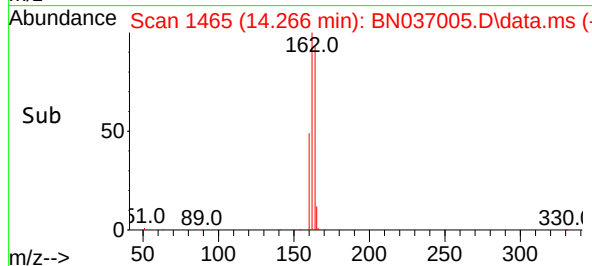
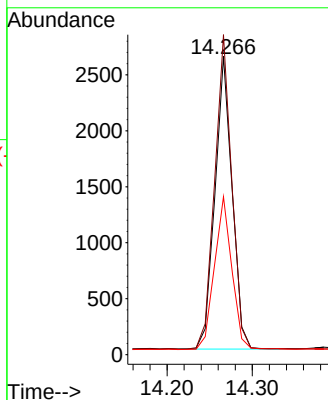
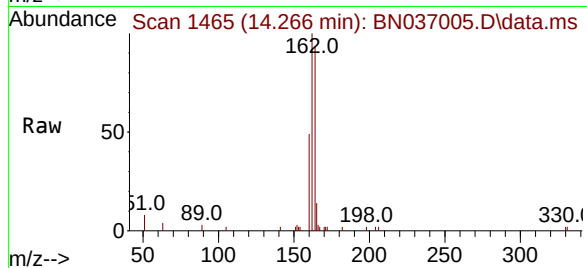




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.266 min Scan# 1465
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

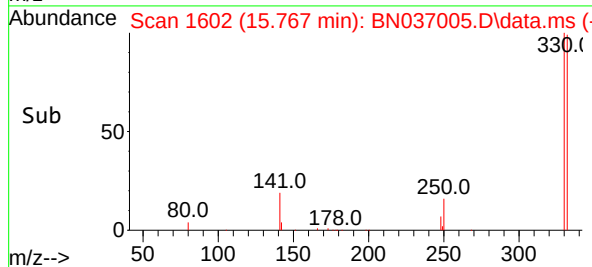
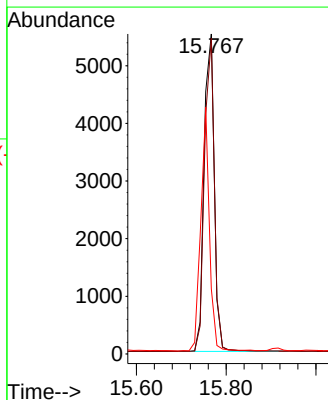
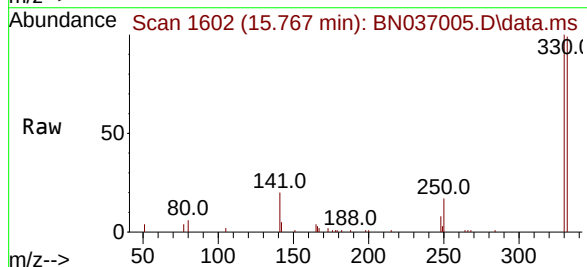
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

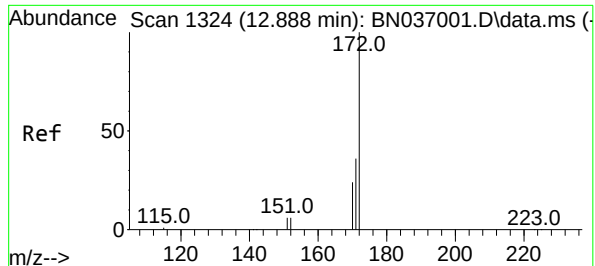
Tgt Ion	164	Resp:	3660
Ion	Ratio	Lower	Upper
164	100		
162	107.2	84.2	126.4
160	52.9	42.6	63.8



#14
2,4,6-Tribromophenol
Concen: 5.383 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion	330	Resp:	8654
Ion	Ratio	Lower	Upper
330	100		
332	95.7	73.8	110.8
141	65.8	43.9	65.9





#15

2-Fluorobiphenyl

Concen: 4.932 ng

RT: 12.888 min Scan# 1324

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

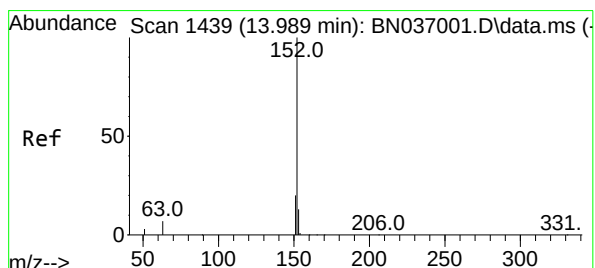
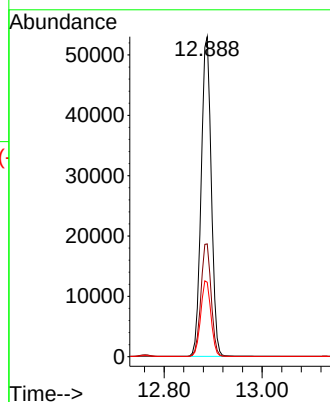
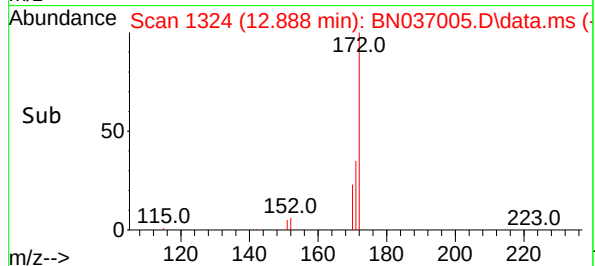
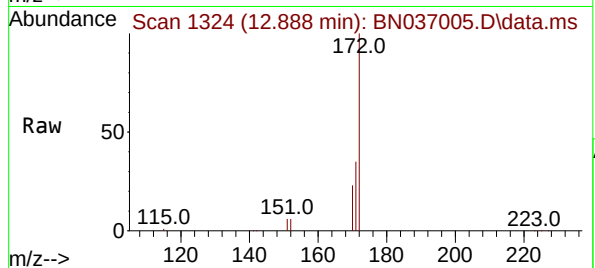
Tgt Ion:172 Resp: 82658

Ion Ratio Lower Upper

172 100

171 35.3 29.2 43.8

170 23.3 20.5 30.7



#16

Acenaphthylene

Concen: 5.328 ng

RT: 13.988 min Scan# 1439

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

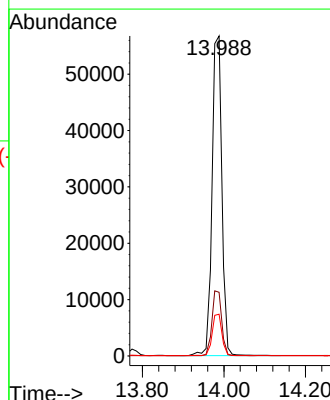
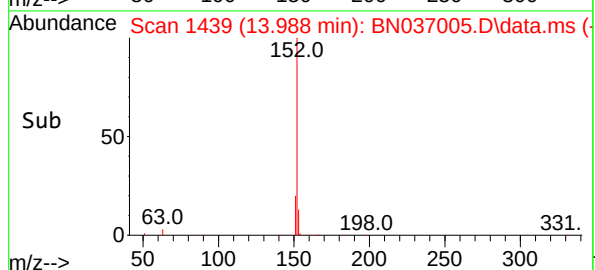
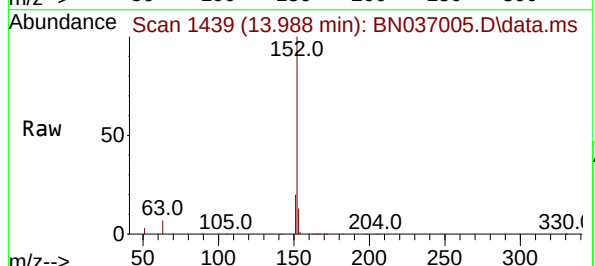
Tgt Ion:152 Resp: 94911

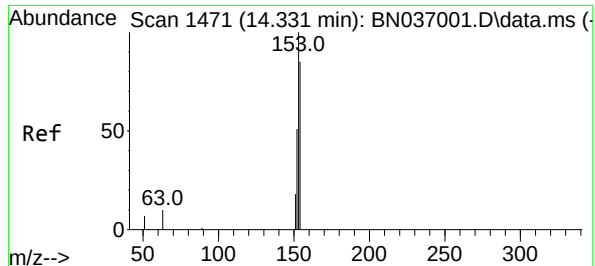
Ion Ratio Lower Upper

152 100

151 20.1 16.1 24.1

153 12.9 10.5 15.7

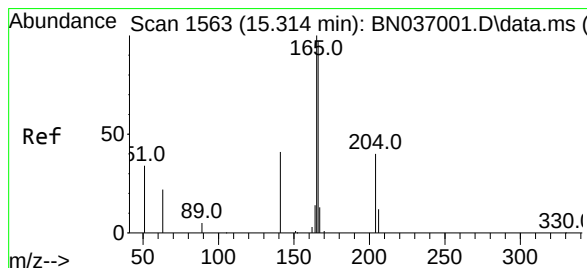
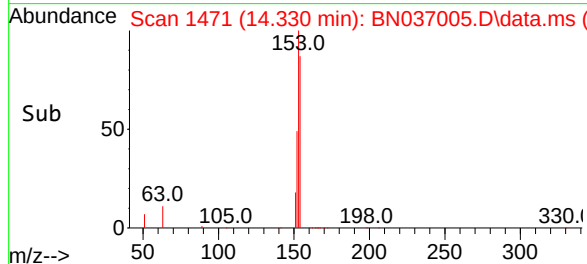
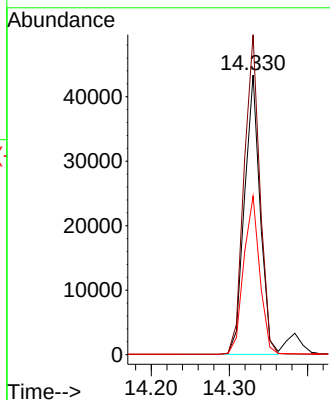
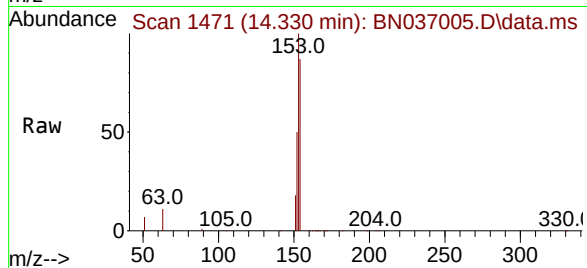




#17
Acenaphthene
Concen: 5.169 ng
RT: 14.330 min Scan# 1471
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

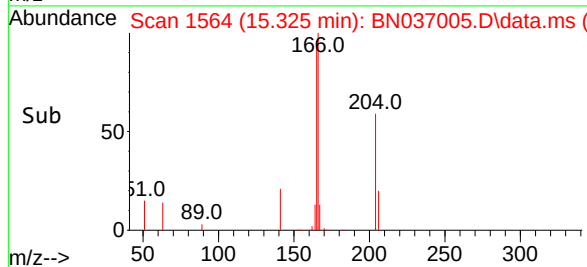
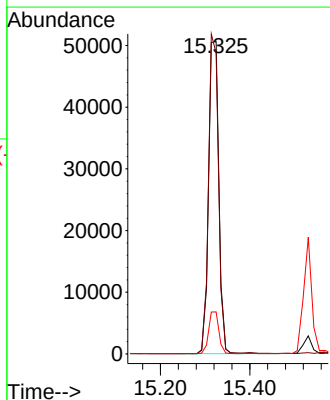
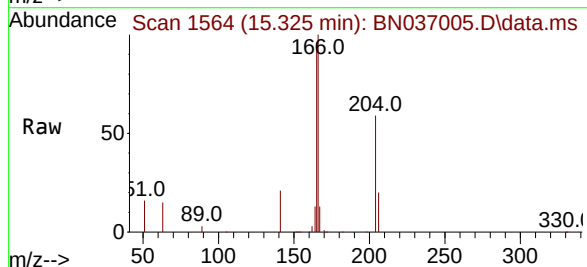
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

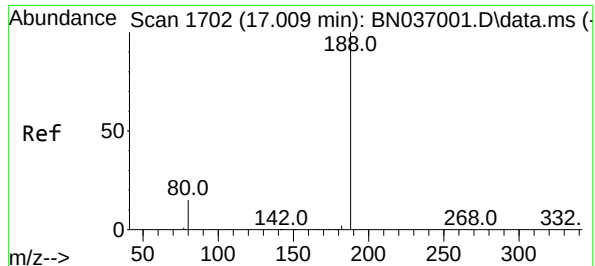
Tgt Ion:154 Resp: 60171
Ion Ratio Lower Upper
154 100
153 115.6 94.2 141.4
152 58.3 49.4 74.0



#18
Fluorene
Concen: 5.250 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.010 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:166 Resp: 80175
Ion Ratio Lower Upper
166 100
165 99.3 80.6 120.8
167 13.3 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.008 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

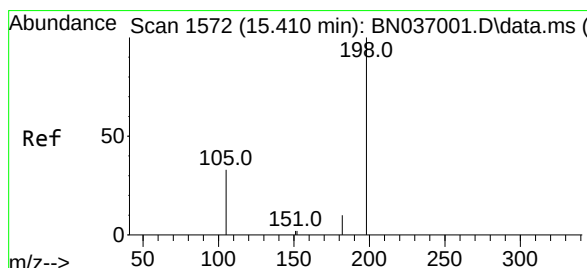
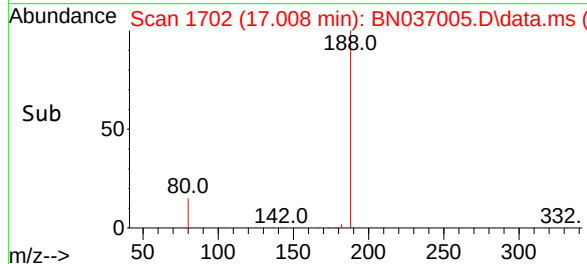
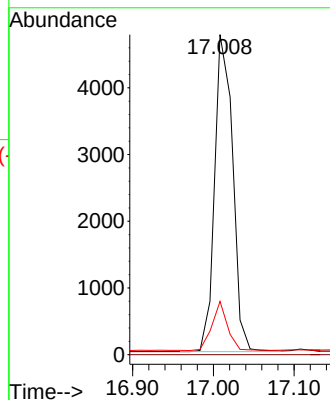
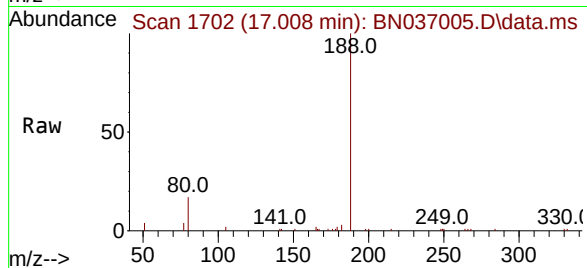
Tgt Ion:188 Resp: 7377

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 16.7 13.4 20.0



#20

4,6-Dinitro-2-methylphenol

Concen: 5.020 ng

RT: 15.399 min Scan# 1571

Delta R.T. -0.011 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

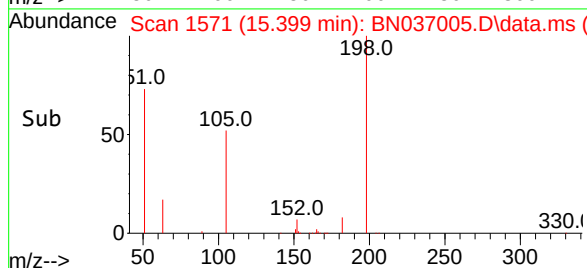
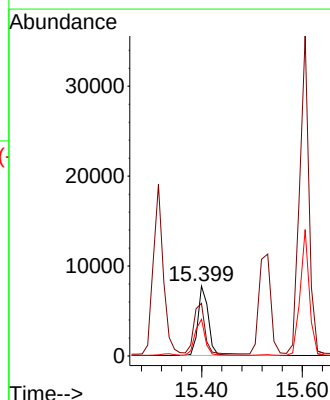
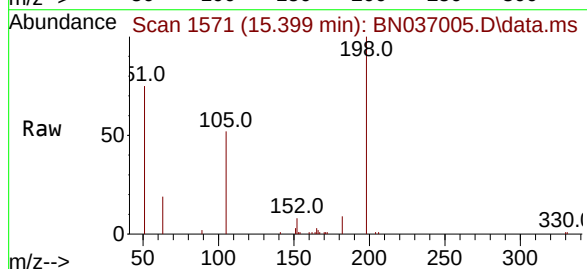
Tgt Ion:198 Resp: 11401

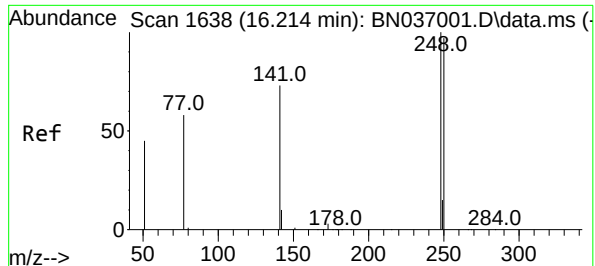
Ion Ratio Lower Upper

198 100

51 75.2 87.8 131.6#

105 52.3 44.2 66.4

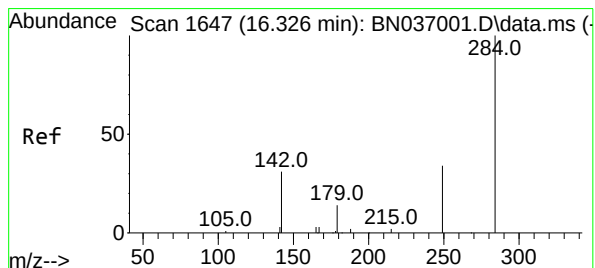
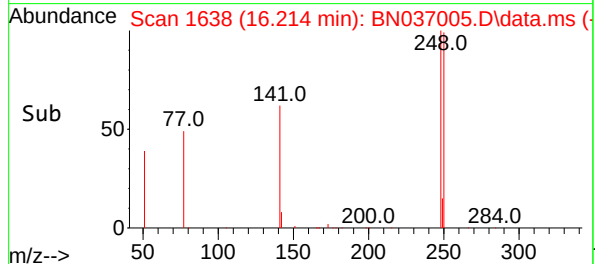
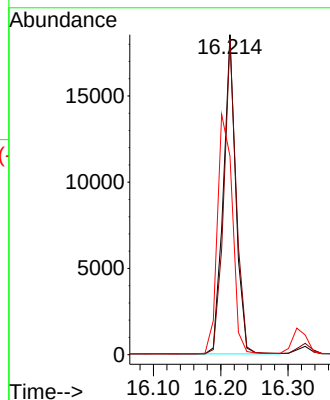
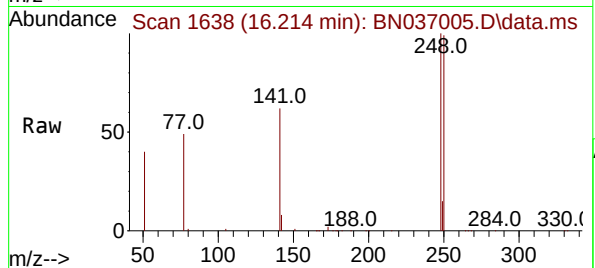




#21
4-Bromophenyl-phenylether
Concen: 5.124 ng
RT: 16.214 min Scan# 1638
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

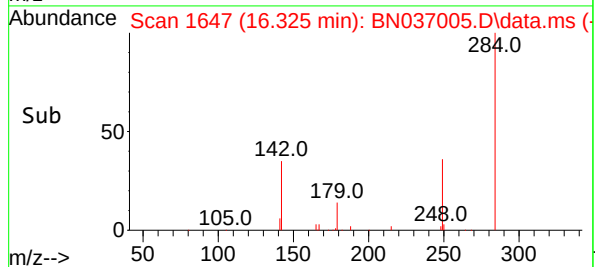
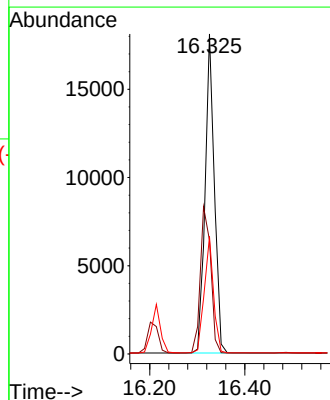
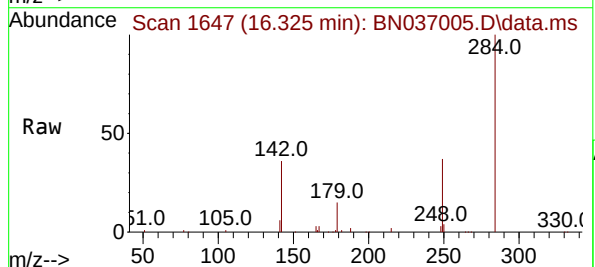
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

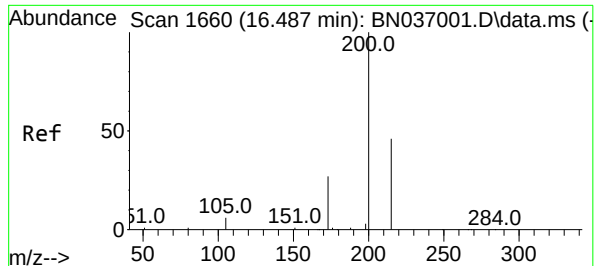
Tgt Ion:248 Resp: 23877
Ion Ratio Lower Upper
248 100
250 98.6 78.1 117.1
141 62.1 59.7 89.5



#22
Hexachlorobenzene
Concen: 4.931 ng
RT: 16.325 min Scan# 1647
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:284 Resp: 24597
Ion Ratio Lower Upper
284 100
142 51.5 41.2 61.8
249 36.6 28.7 43.1

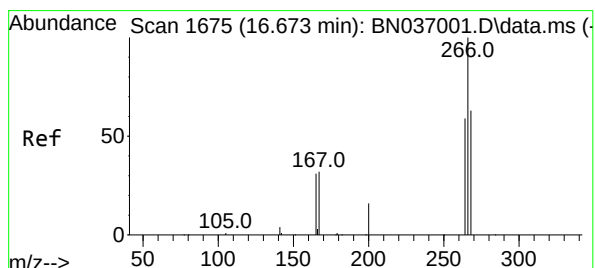
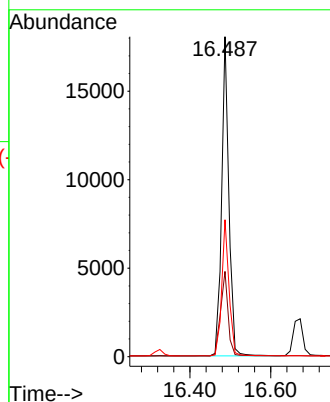
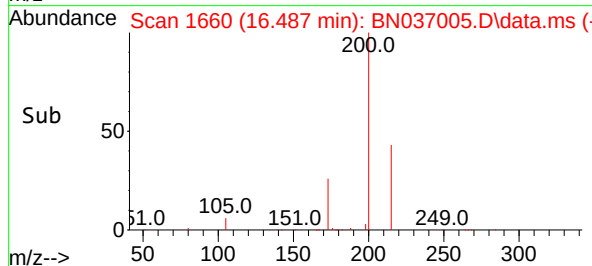
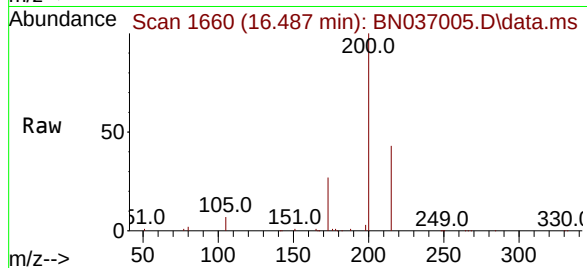




#23
Atrazine
Concen: 5.483 ng
RT: 16.487 min Scan# 1660
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

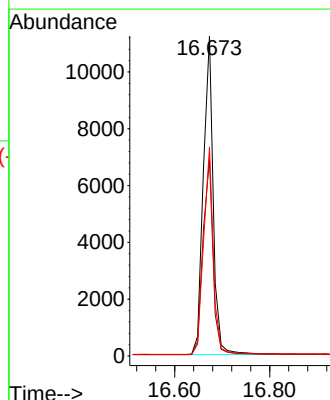
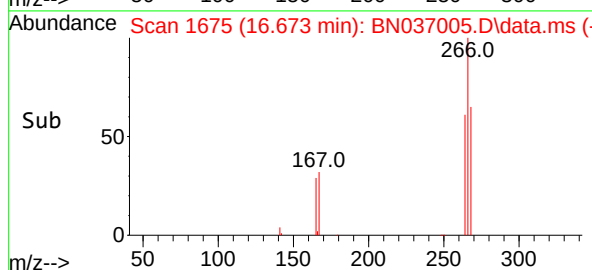
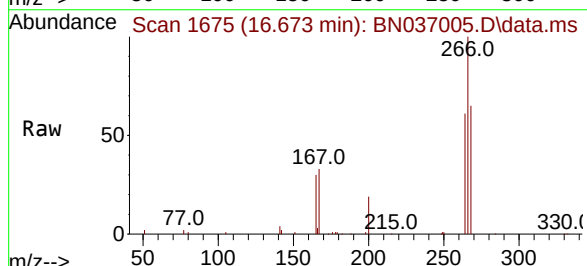
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

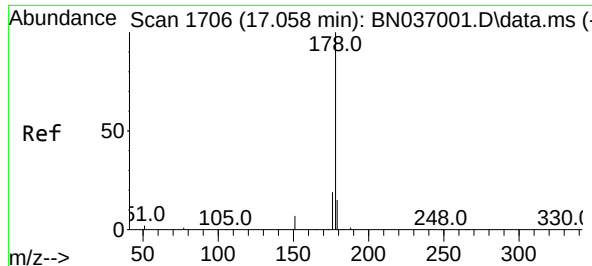
Tgt Ion	Ratio	Lower	Upper
200	100		
173	26.6	25.2	37.8
215	42.8	39.3	58.9



#24
Pentachlorophenol
Concen: 5.883 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion	Ratio	Lower	Upper
266	100		
264	62.8	47.9	71.9
268	64.0	50.0	75.0

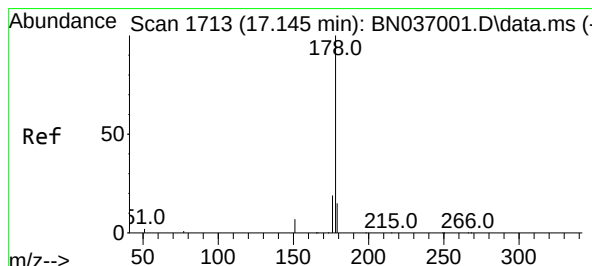
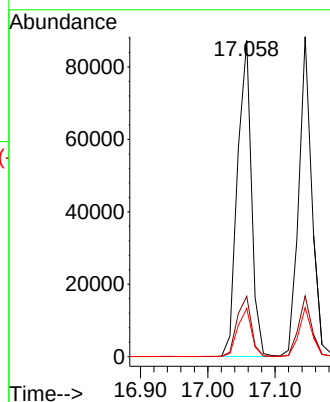
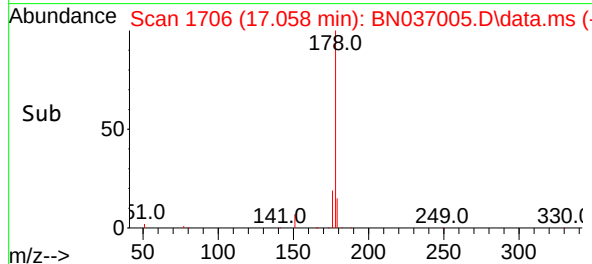
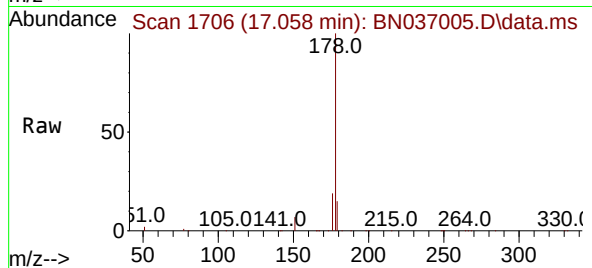




#25
Phenanthrene
Concen: 5.205 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

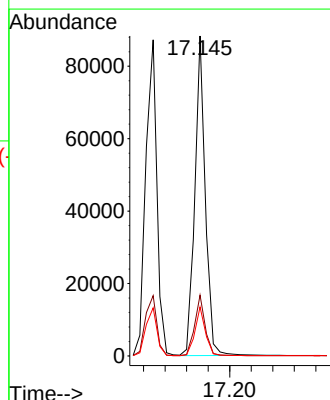
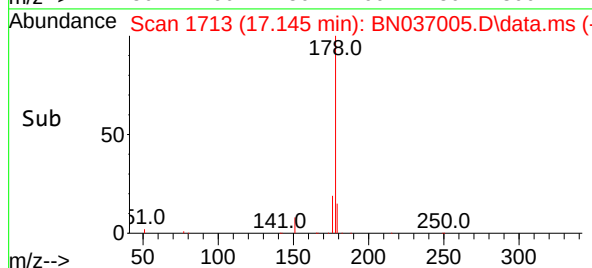
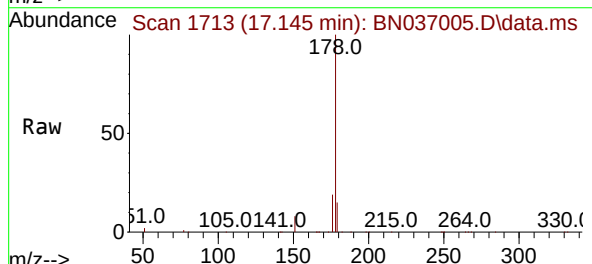
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

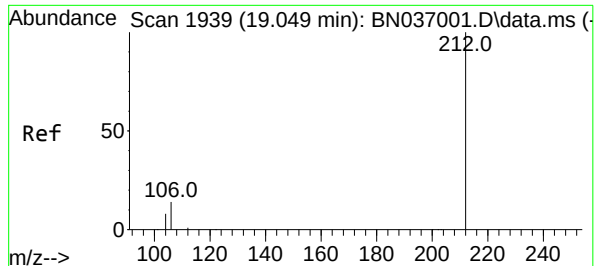
Tgt Ion:178 Resp: 125493
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.2 12.2 18.2



#26
Anthracene
Concen: 5.464 ng
RT: 17.145 min Scan# 1713
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion:178 Resp: 119884
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.2 12.3 18.5





#27

Fluoranthene-d10

Concen: 5.372 ng

RT: 19.049 min Scan# 1939

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

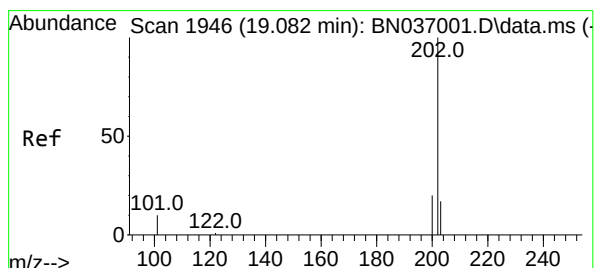
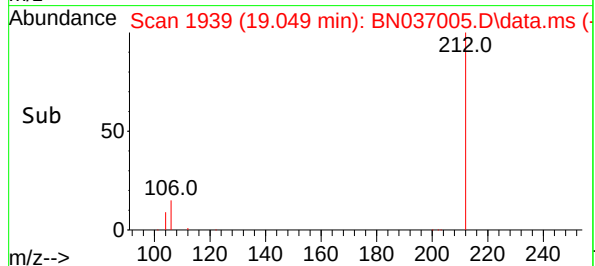
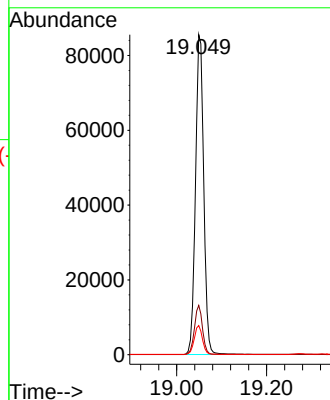
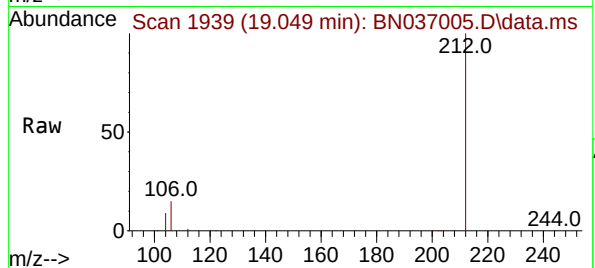
Tgt Ion:212 Resp: 108672

Ion Ratio Lower Upper

212 100

106 15.0 11.3 16.9

104 8.9 6.7 10.1



#28

Fluoranthene

Concen: 5.421 ng

RT: 19.081 min Scan# 1946

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

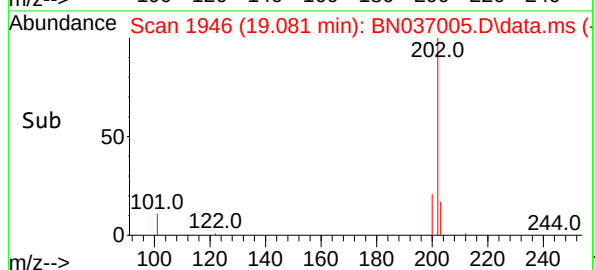
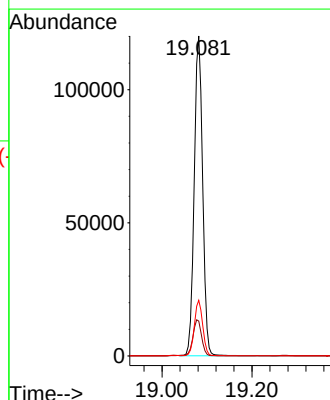
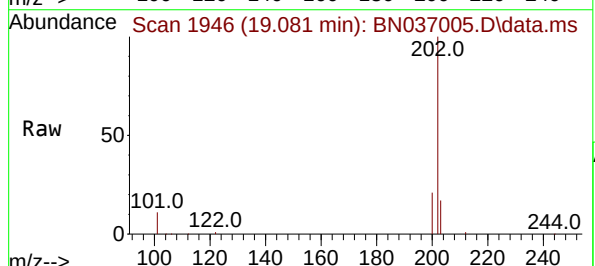
Tgt Ion:202 Resp: 156131

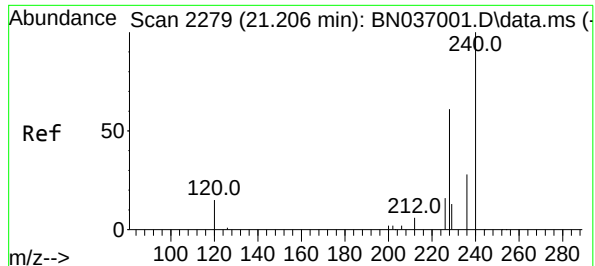
Ion Ratio Lower Upper

202 100

101 11.7 8.9 13.3

203 17.1 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

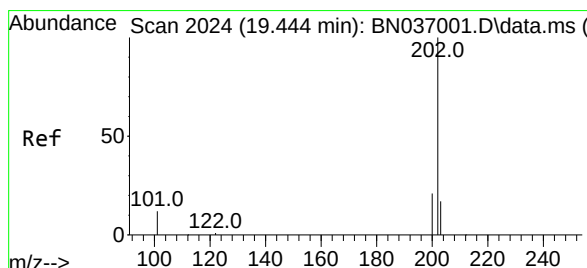
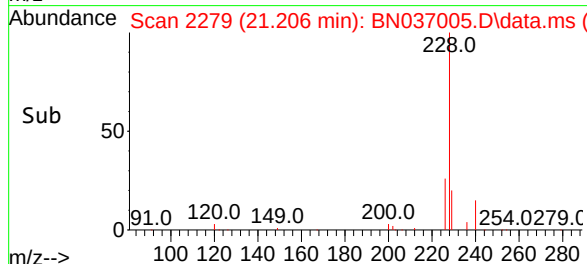
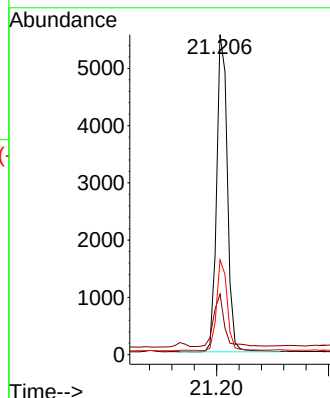
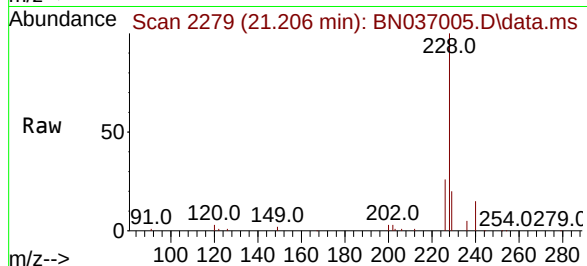
Tgt Ion:240 Resp: 7435

Ion Ratio Lower Upper

240 100

120 19.0 15.1 22.7

236 29.6 24.0 36.0



#30

Pyrene

Concen: 5.001 ng

RT: 19.444 min Scan# 2024

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

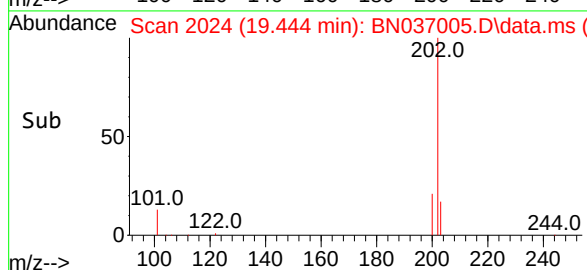
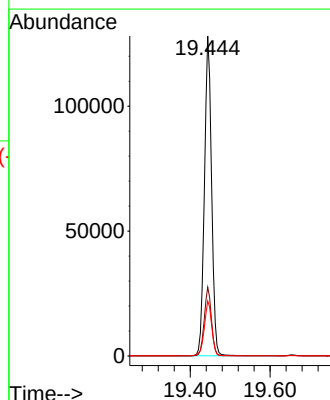
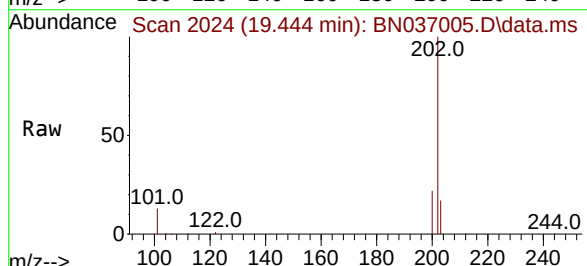
Tgt Ion:202 Resp: 159039

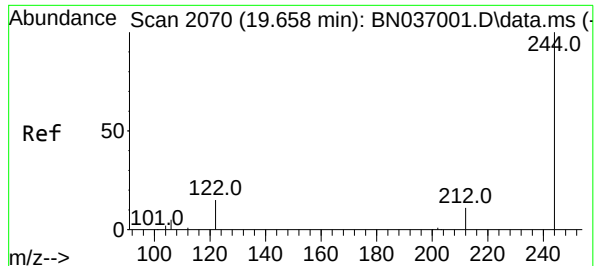
Ion Ratio Lower Upper

202 100

200 21.5 17.1 25.7

203 17.7 14.2 21.4

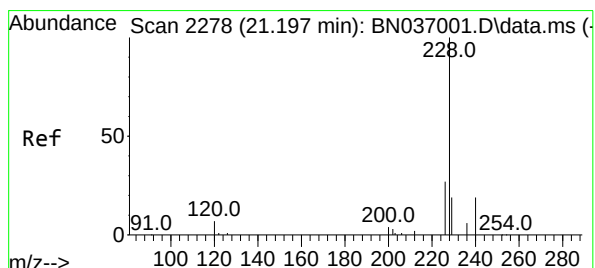
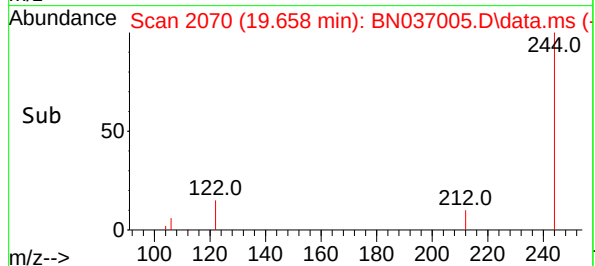
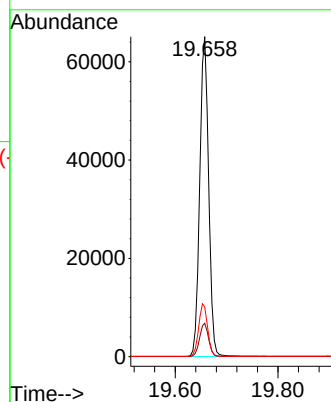
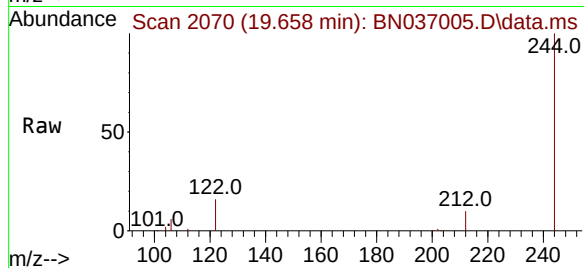




#31
Terphenyl-d14
Concen: 4.953 ng
RT: 19.658 min Scan# 2070
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

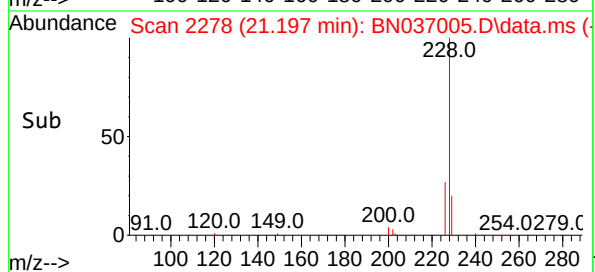
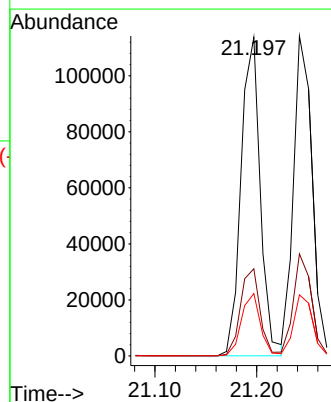
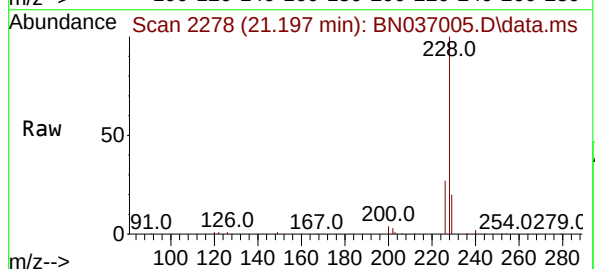
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

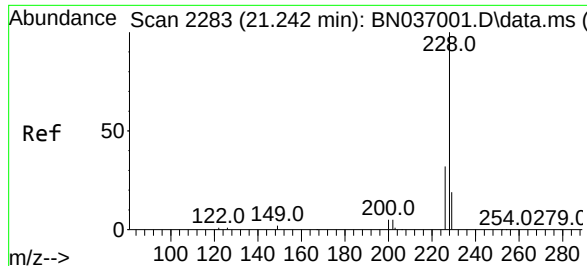
Tgt Ion	Ratio	Lower	Upper
244	100		
212	10.4	9.7	14.5
122	15.6	13.4	20.0



#32
Benzo(a)anthracene
Concen: 5.341 ng
RT: 21.197 min Scan# 2278
Delta R.T. -0.000 min
Lab File: BN037005.D
Acq: 13 May 2025 21:17

Tgt Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.2	33.4
229	19.6	16.0	24.0





#33

Chrysene

Concen: 4.946 ng

RT: 21.242 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

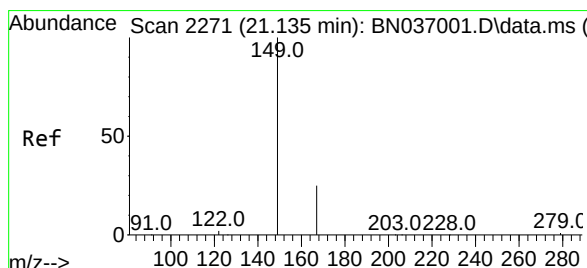
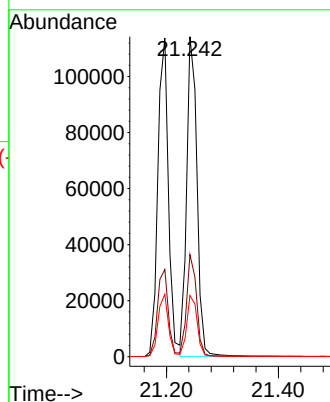
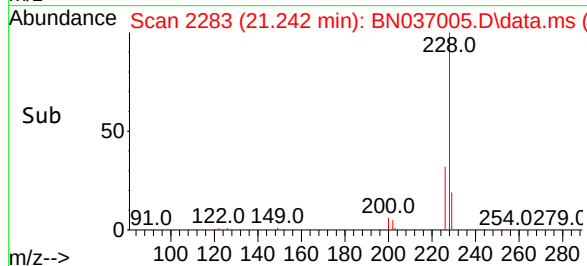
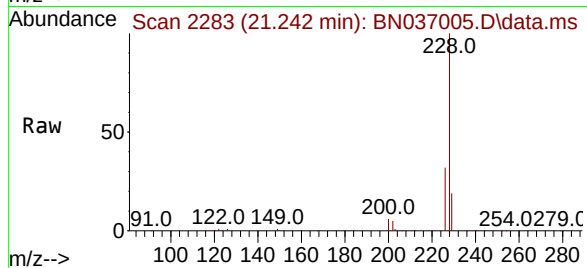
Tgt Ion:228 Resp: 146457

Ion Ratio Lower Upper

228 100

226 31.9 26.3 39.5

229 19.1 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 5.445 ng

RT: 21.134 min Scan# 2271

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

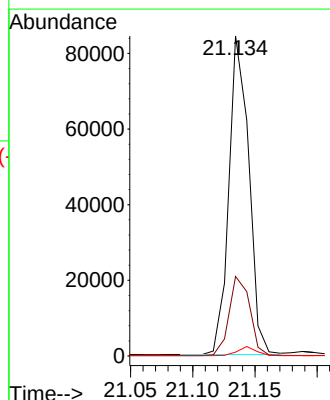
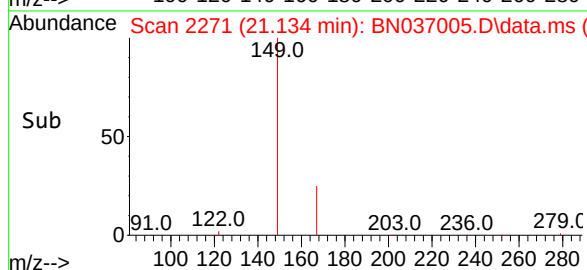
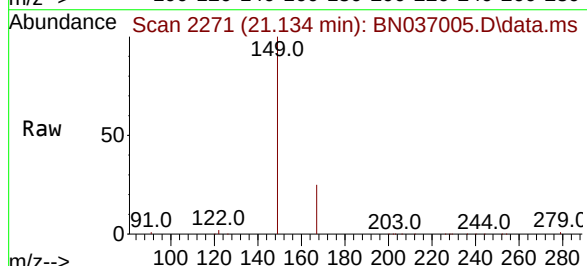
Tgt Ion:149 Resp: 93938

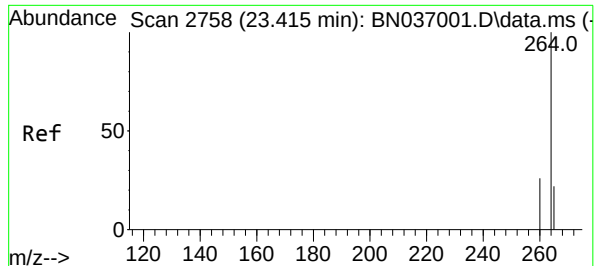
Ion Ratio Lower Upper

149 100

167 25.9 20.6 30.8

279 2.6 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.412 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

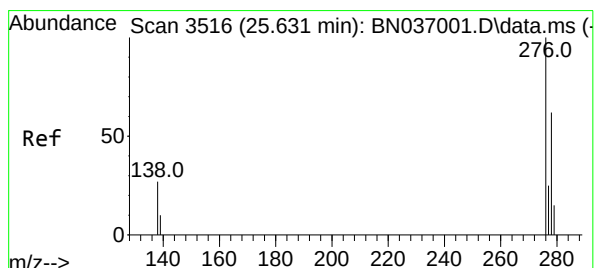
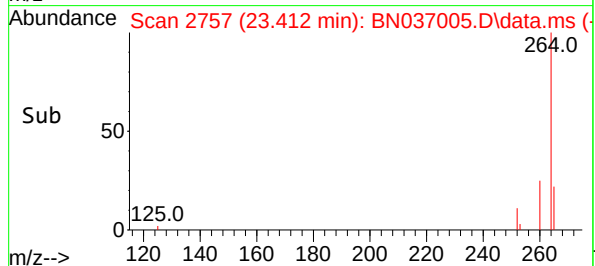
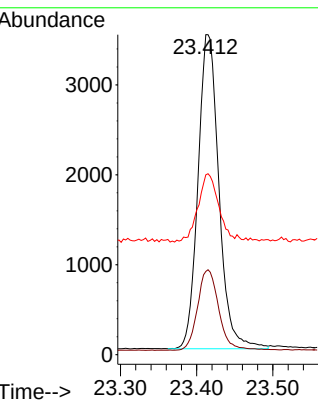
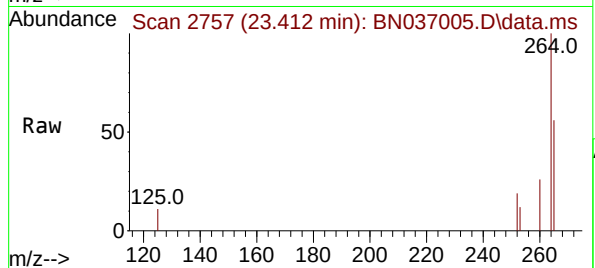
Tgt Ion:264 Resp: 6657

Ion Ratio Lower Upper

264 100

260 26.0 21.9 32.9

265 56.2 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 5.141 ng

RT: 25.628 min Scan# 3515

Delta R.T. -0.003 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

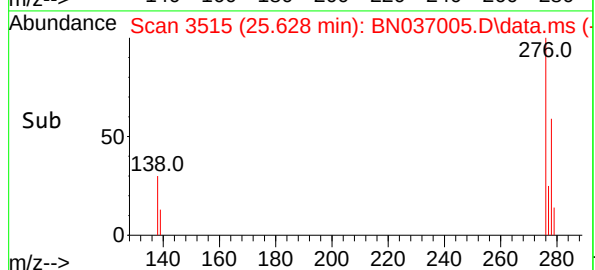
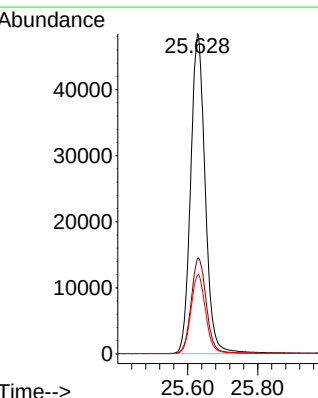
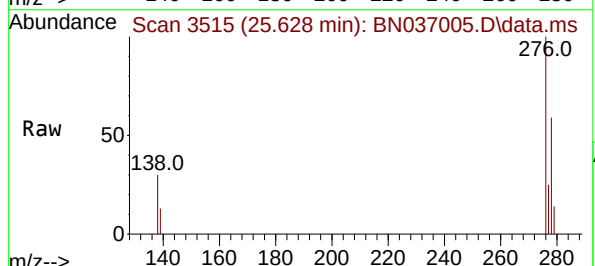
Tgt Ion:276 Resp: 139772

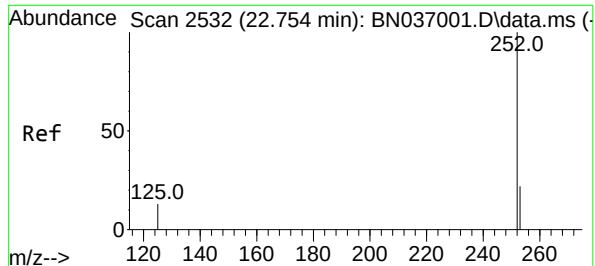
Ion Ratio Lower Upper

276 100

138 31.4 22.7 34.1

277 25.1 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 5.323 ng

RT: 22.754 min Scan# 2532

Delta R.T. -0.000 min

Lab File: BN037005.D

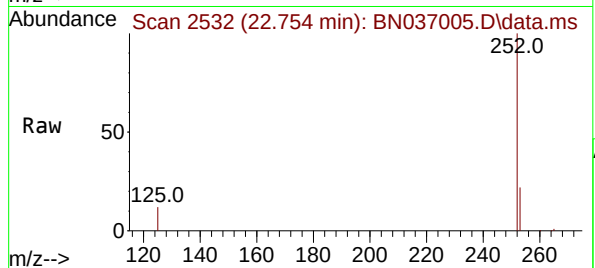
Acq: 13 May 2025 21:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



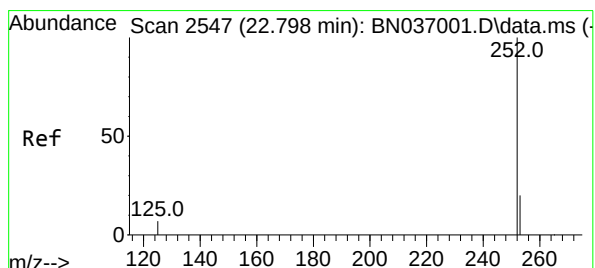
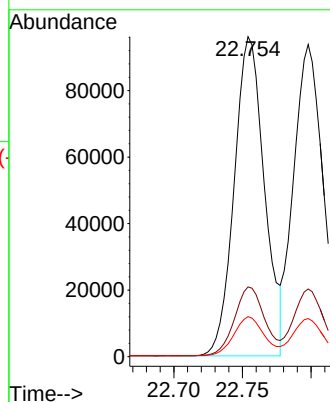
Tgt Ion:252 Resp: 146896

Ion Ratio Lower Upper

252 100

253 21.8 21.8 32.6

125 12.5 14.6 21.8#



#38

Benzo(k)fluoranthene

Concen: 5.244 ng

RT: 22.798 min Scan# 2547

Delta R.T. -0.000 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

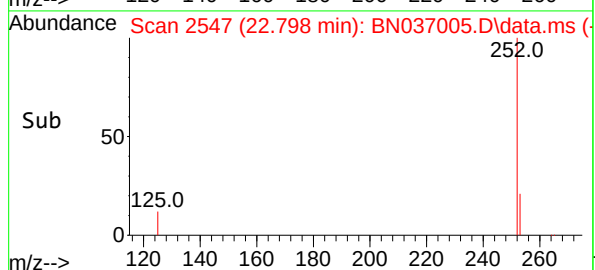
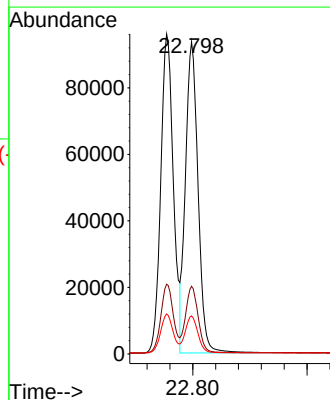
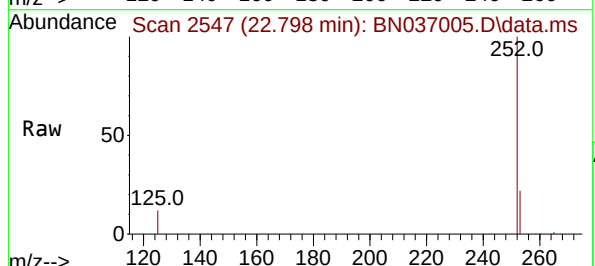
Tgt Ion:252 Resp: 143001

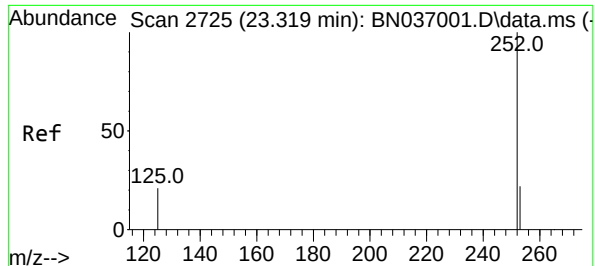
Ion Ratio Lower Upper

252 100

253 21.7 21.4 32.2

125 12.2 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 5.280 ng

RT: 23.318 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037005.D

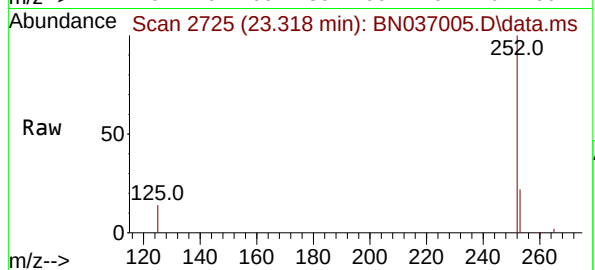
Acq: 13 May 2025 21:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



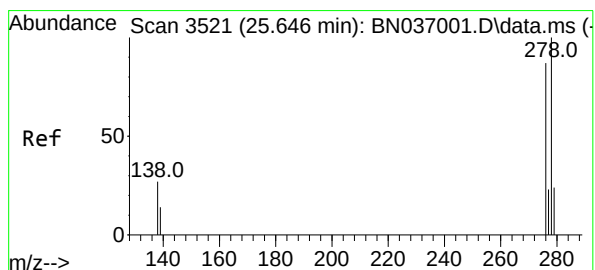
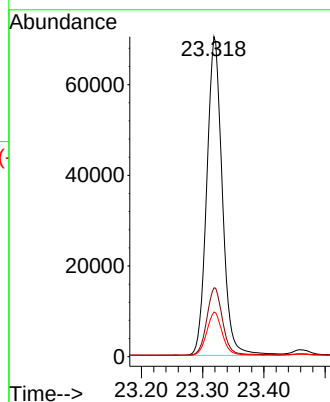
Tgt Ion:252 Resp: 123679

Ion Ratio Lower Upper

252 100

253 21.5 23.8 35.6#

125 13.9 21.8 32.6#



#40

Dibenzo(a,h)anthracene

Concen: 5.241 ng

RT: 25.643 min Scan# 3520

Delta R.T. -0.003 min

Lab File: BN037005.D

Acq: 13 May 2025 21:17

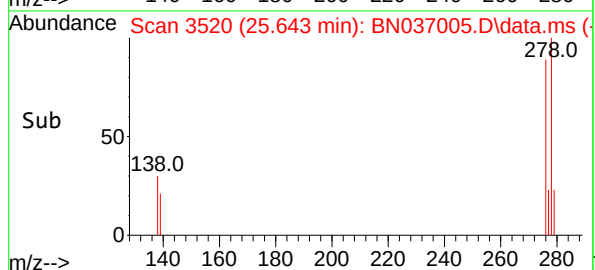
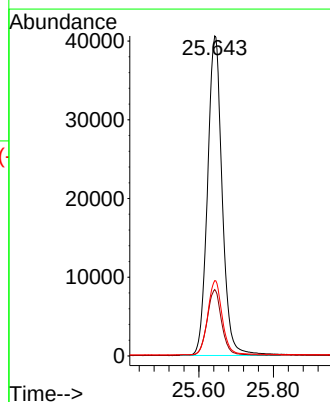
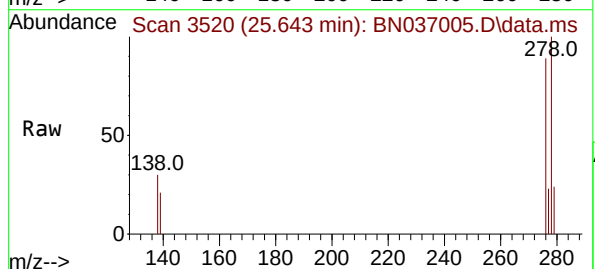
Tgt Ion:278 Resp: 111001

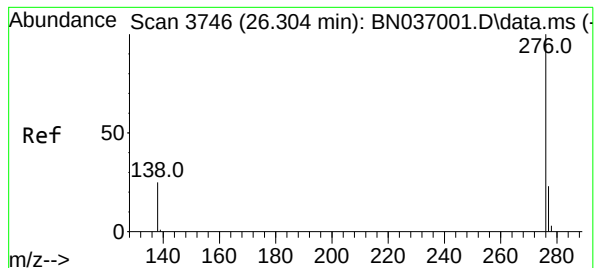
Ion Ratio Lower Upper

278 100

139 20.8 17.4 26.0

279 23.6 24.6 37.0#





#41

Benzo(g,h,i)perylene

Concen: 4.975 ng

RT: 26.309 min Scan# 31

Delta R.T. 0.005 min

Lab File: BN037005.D

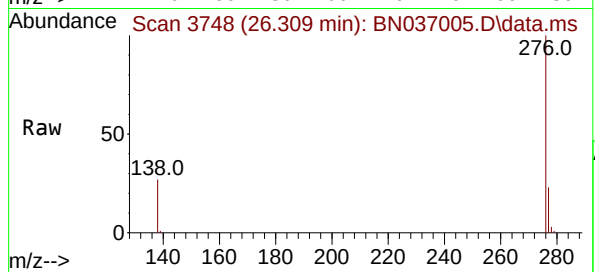
Acq: 13 May 2025 21:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



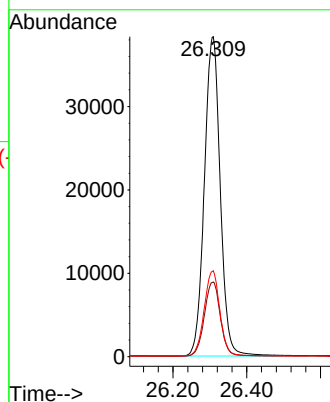
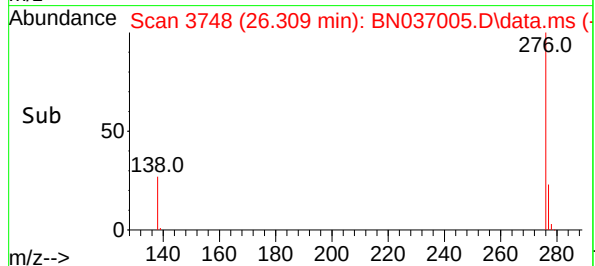
Tgt Ion:276 Resp: 114459

Ion Ratio Lower Upper

276 100

277 23.4 20.2 30.4

138 26.9 22.0 33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037006.D
 Acq On : 13 May 2025 22:29
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN051424

Quant Time: May 14 11:28:08 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 11:26:32 2025
 Response via : Initial Calibration

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

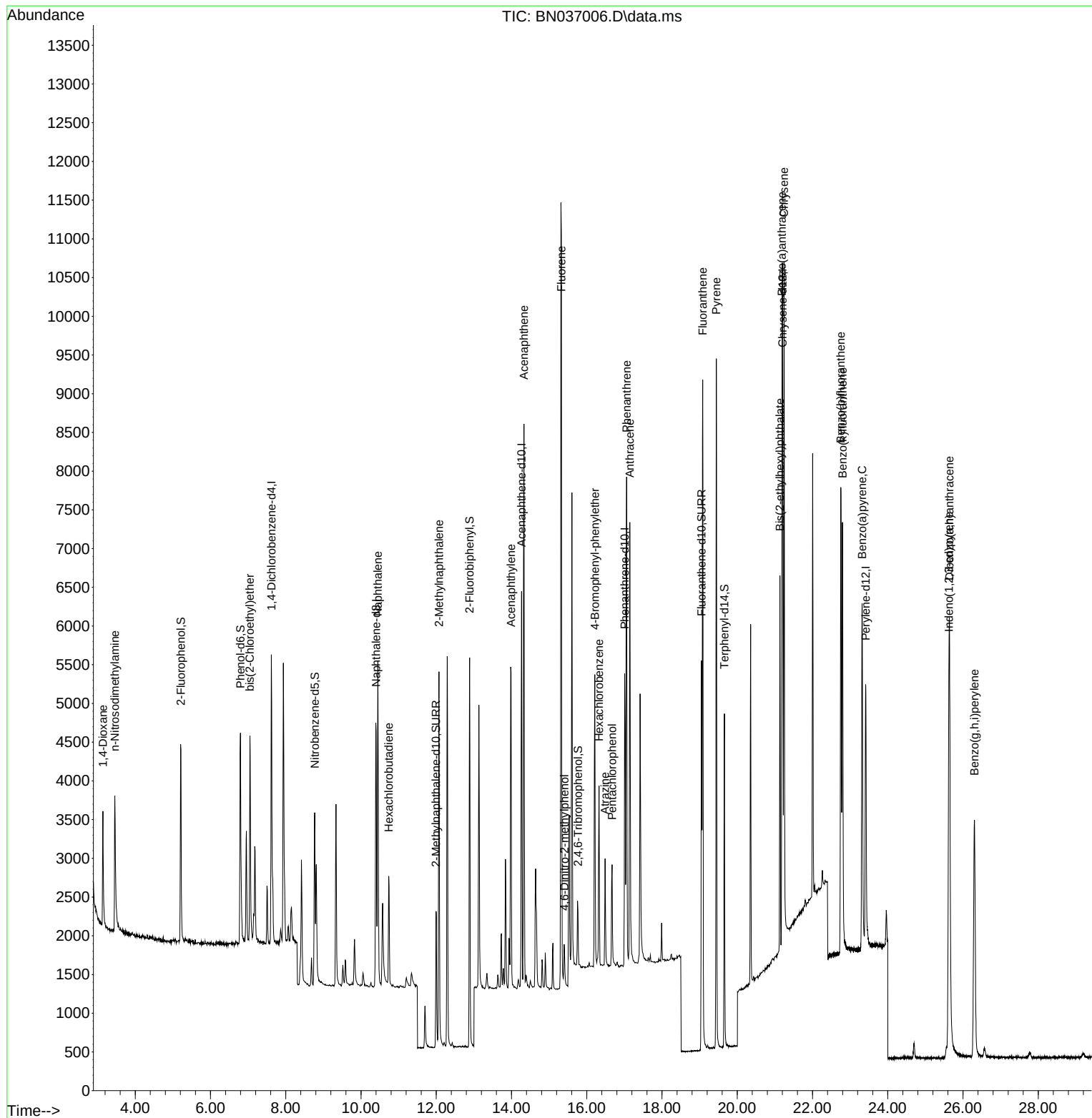
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	1738	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	4666	0.400	ng	0.00
13) Acenaphthene-d10	14.267	164	2720	0.400	ng	0.00
19) Phenanthrene-d10	17.009	188	5359	0.400	ng	0.00
29) Chrysene-d12	21.206	240	4597	0.400	ng	0.00
35) Perylene-d12	23.415	264	4432	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.213	112	1928	0.423	ng	0.00
5) Phenol-d6	6.795	99	2325	0.408	ng	0.00
8) Nitrobenzene-d5	8.771	82	1928	0.379	ng	0.00
11) 2-Methylnaphthalene-d10	11.996	152	2642	0.402	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	474	0.397	ng	0.00
15) 2-Fluorobiphenyl	12.888	172	5054	0.406	ng	0.00
27) Fluoranthene-d10	19.049	212	5648	0.384	ng	0.00
31) Terphenyl-d14	19.658	244	4080	0.415	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.140	88	868	0.407	ng	95
3) n-Nitrosodimethylamine	3.458	42	1788	0.390	ng	# 92
6) bis(2-Chloroethyl)ether	7.048	93	2010	0.383	ng	100
9) Naphthalene	10.447	128	5367	0.389	ng	99
10) Hexachlorobutadiene	10.735	225	1150	0.397	ng	# 99
12) 2-Methylnaphthalene	12.072	142	3513	0.396	ng	98
16) Acenaphthylene	13.989	152	5019	0.379	ng	100
17) Acenaphthene	14.331	154	3352	0.387	ng	100
18) Fluorene	15.325	166	4398	0.388	ng	100
20) 4,6-Dinitro-2-methylph...	15.411	198	410	0.396	ng	88
21) 4-Bromophenyl-phenylether	16.214	248	1326	0.392	ng	98
22) Hexachlorobenzene	16.326	284	1488	0.411	ng	98
23) Atrazine	16.487	200	1120	0.379	ng	98
24) Pentachlorophenol	16.673	266	672	0.336	ng	93
25) Phenanthrene	17.058	178	6852	0.391	ng	99
26) Anthracene	17.145	178	6126	0.384	ng	99
28) Fluoranthene	19.082	202	7940	0.380	ng	99
30) Pyrene	19.444	202	8093	0.412	ng	100
32) Benzo(a)anthracene	21.189	228	6824	0.394	ng	98
33) Chrysene	21.242	228	7298	0.399	ng	98
34) Bis(2-ethylhexyl)phtha...	21.135	149	4120	0.387	ng	99
36) Indeno(1,2,3-cd)pyrene	25.623	276	7358	0.407	ng	98
37) Benzo(b)fluoranthene	22.752	252	7184	0.391	ng	99
38) Benzo(k)fluoranthene	22.798	252	7438	0.410	ng	99
39) Benzo(a)pyrene	23.319	252	6167	0.395	ng	98
40) Dibenzo(a,h)anthracene	25.640	278	5621	0.399	ng	98
41) Benzo(g,h,i)perylene	26.304	276	6268	0.409	ng	99

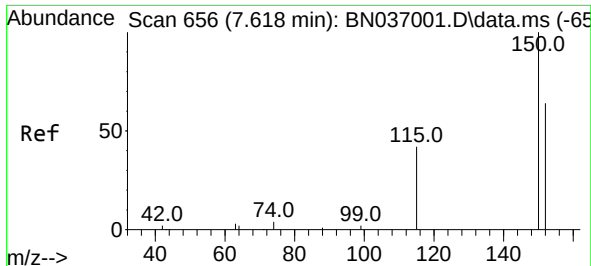
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037006.D
Acq On : 13 May 2025 22:29
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

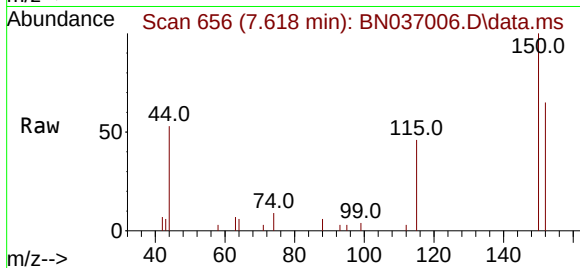
Quant Time: May 14 11:28:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration



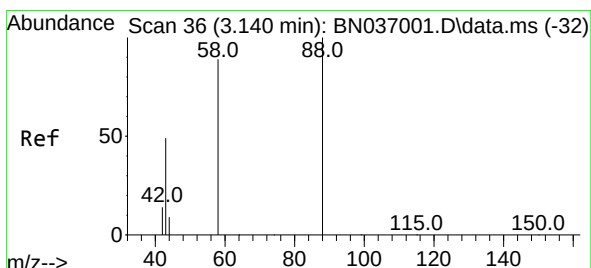
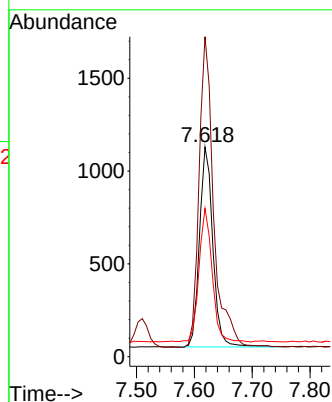
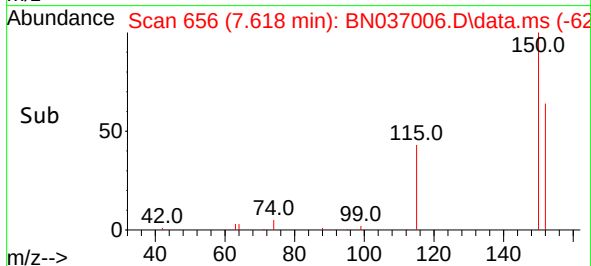


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.618 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: BN037006.D
 Acq: 13 May 2025 22:29

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN051424

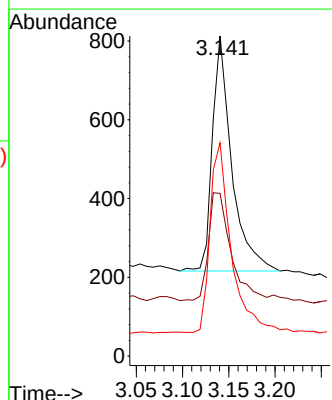
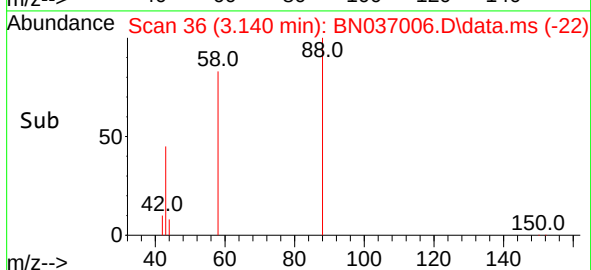
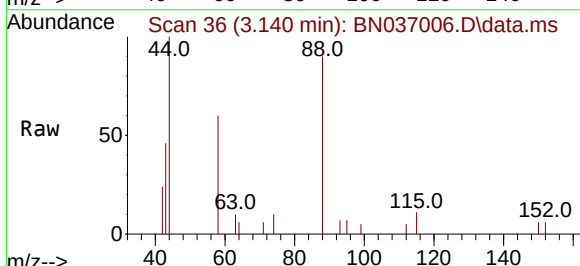


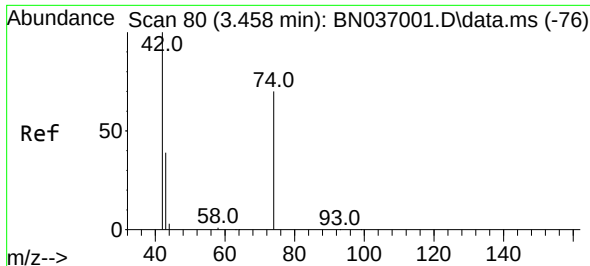
Tgt Ion:152 Resp: 1738
 Ion Ratio Lower Upper
 152 100
 150 152.7 123.9 185.9
 115 70.8 55.8 83.8



#2
 1,4-Dioxane
 Concen: 0.407 ng
 RT: 3.140 min Scan# 36
 Delta R.T. 0.000 min
 Lab File: BN037006.D
 Acq: 13 May 2025 22:29

Tgt Ion: 88 Resp: 868
 Ion Ratio Lower Upper
 88 100
 43 53.6 37.4 56.0
 58 87.7 68.8 103.2

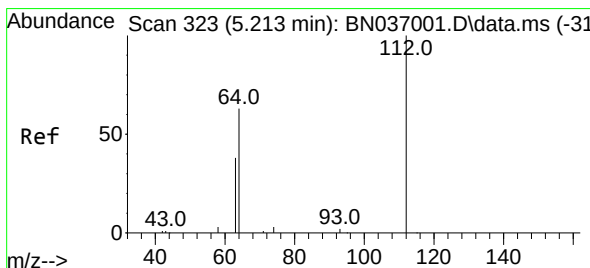
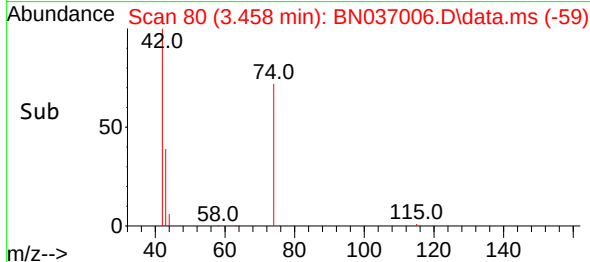
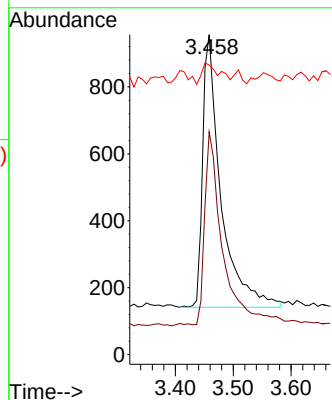
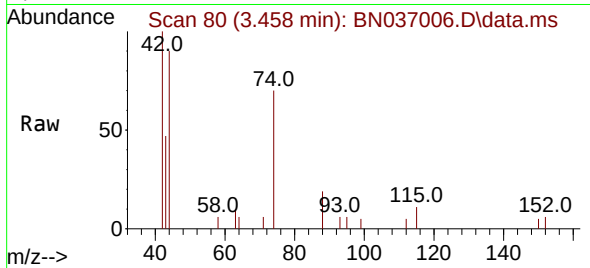




#3
 n-Nitrosodimethylamine
 Concen: 0.390 ng
 RT: 3.458 min Scan# 80
 Delta R.T. 0.000 min
 Lab File: BN037006.D
 Acq: 13 May 2025 22:29

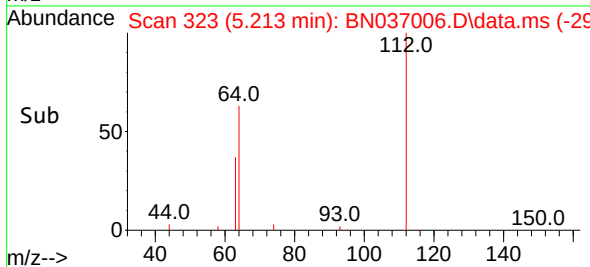
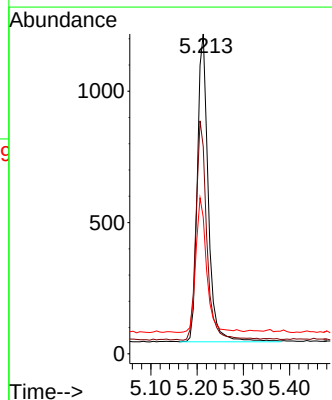
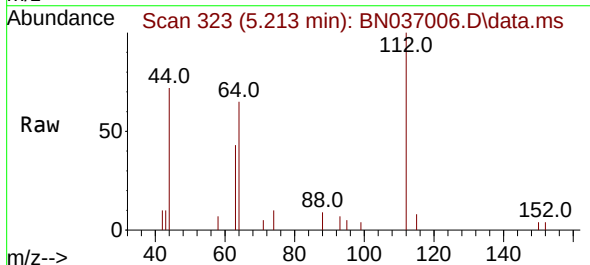
Instrument :
 BNA_N
 ClientSampleId :
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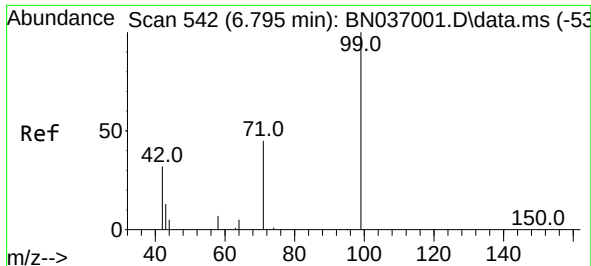
Tgt Ion: 42 Resp: 1788
 Ion Ratio Lower Upper
 42 100
 74 69.1 59.8 89.6
 44 7.4 11.9 17.9#



#4
 2-Fluorophenol
 Concen: 0.423 ng
 RT: 5.213 min Scan# 323
 Delta R.T. 0.000 min
 Lab File: BN037006.D
 Acq: 13 May 2025 22:29

Tgt Ion: 112 Resp: 1928
 Ion Ratio Lower Upper
 112 100
 64 71.3 55.7 83.5
 63 43.4 34.6 51.8

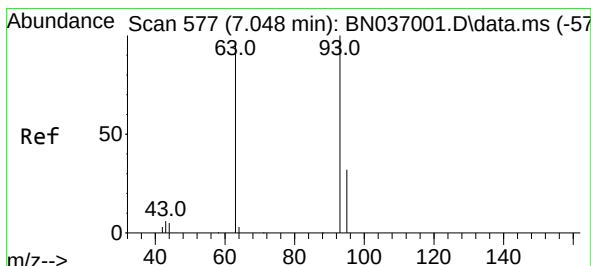
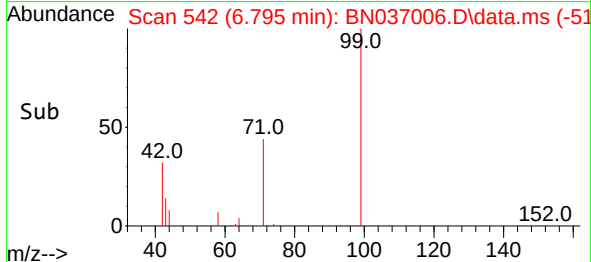
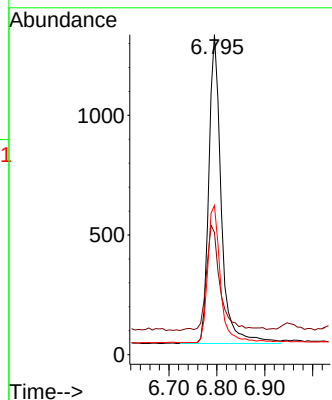
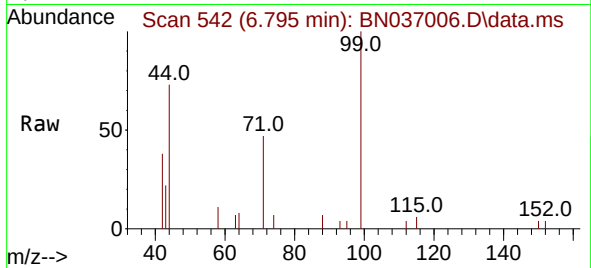




#5
Phenol-d6
Concen: 0.408 ng
RT: 6.795 min Scan# 542
Delta R.T. -0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

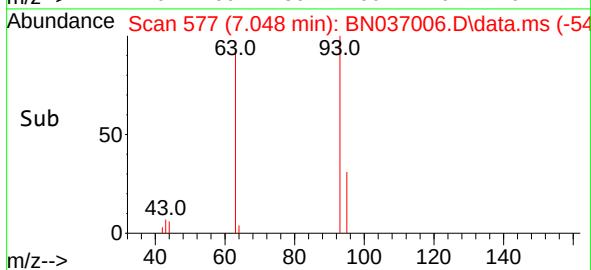
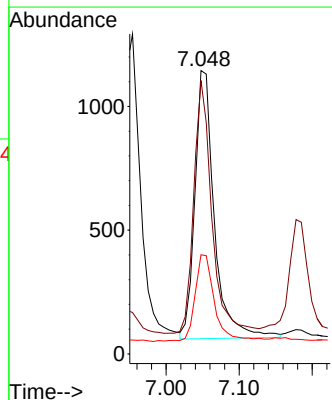
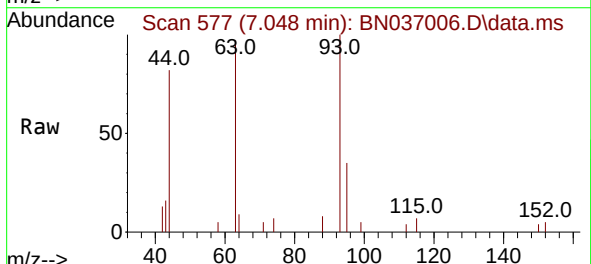
Instrument :
BNA_N
ClientSampleId :
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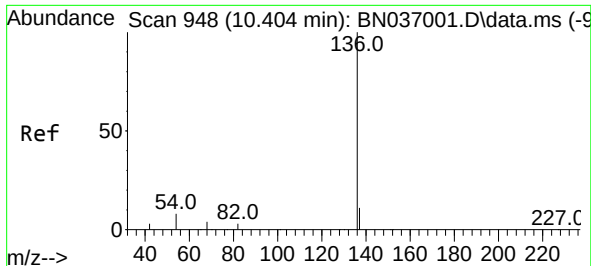
Tgt Ion:	99	Resp:	2325
Ion	Ratio	Lower	Upper
99	100		
42	38.2	29.3	43.9
71	45.8	35.7	53.5



#6
bis(2-Chloroethyl)ether
Concen: 0.383 ng
RT: 7.048 min Scan# 577
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:	93	Resp:	2010
Ion	Ratio	Lower	Upper
93	100		
63	87.3	70.1	105.1
95	32.9	26.2	39.2

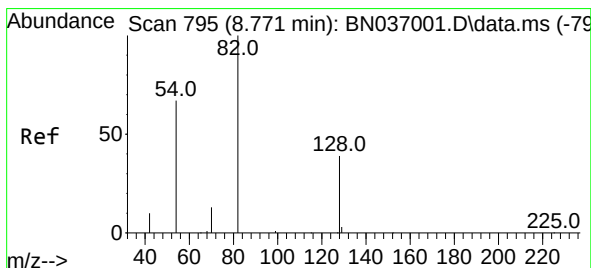
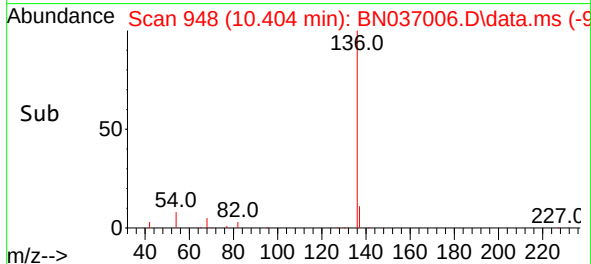
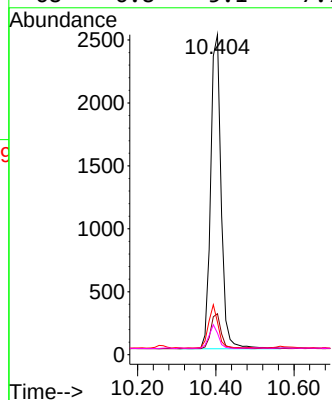
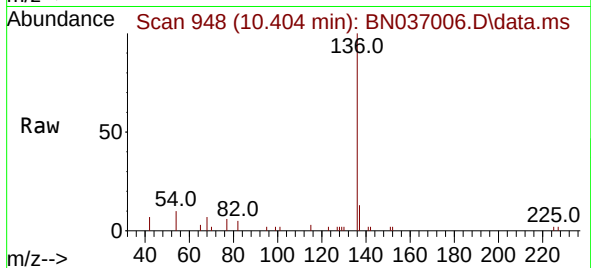




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 948
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

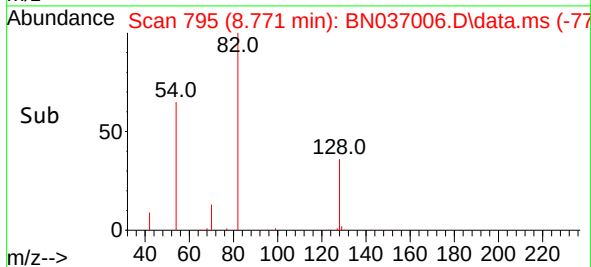
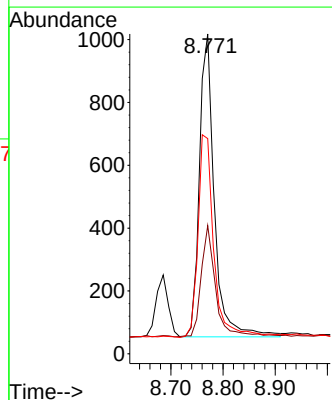
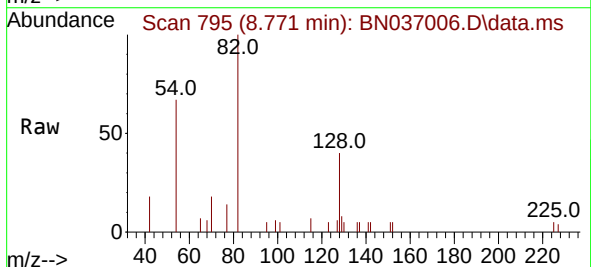
Instrument :
BNA_N
ClientSampleId :
ICVBN051424

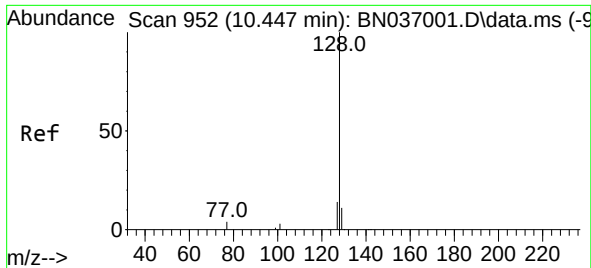
Tgt Ion:	136	Resp:	4666
Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.4	15.6
54	10.1	8.5	12.7
68	6.8	5.1	7.7



#8
Nitrobenzene-d5
Concen: 0.379 ng
RT: 8.771 min Scan# 795
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:	82	Resp:	1928
Ion	Ratio	Lower	Upper
82	100		
128	40.1	34.0	51.0
54	67.3	55.0	82.4

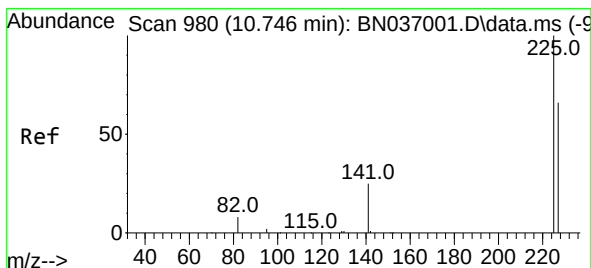
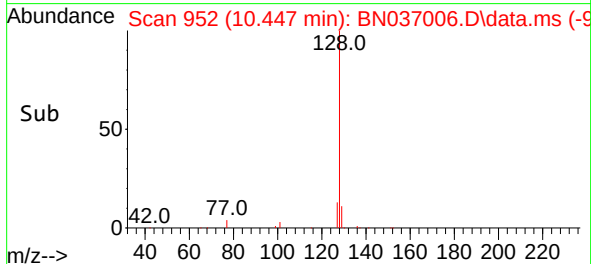
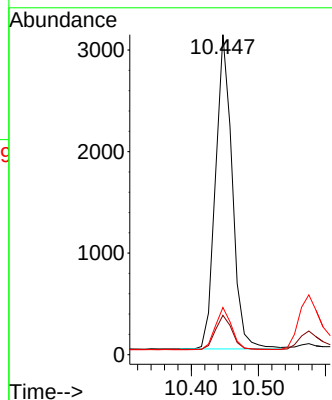
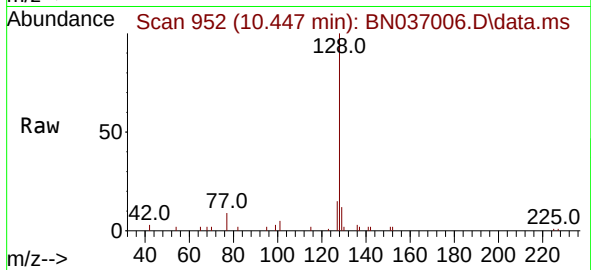




#9
Naphthalene
Concen: 0.389 ng
RT: 10.447 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

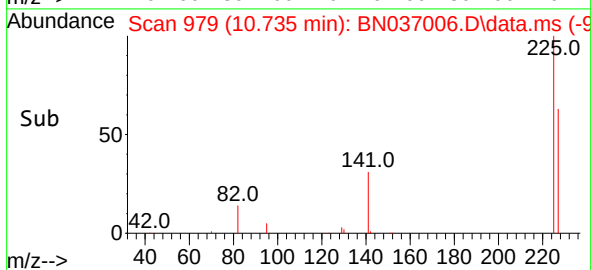
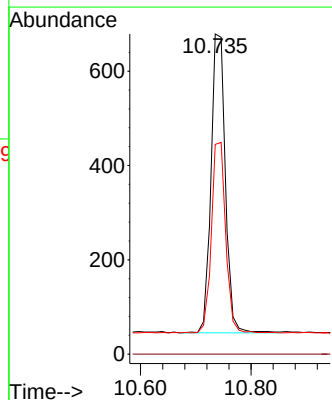
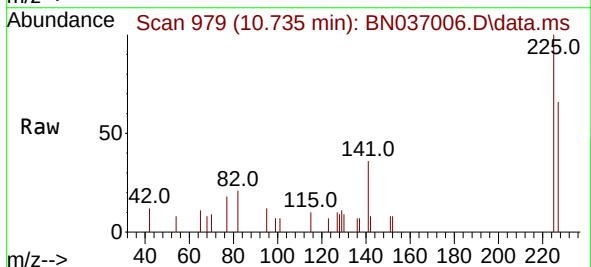
Instrument :
BNA_N
ClientSampleId :
ICVBN051424

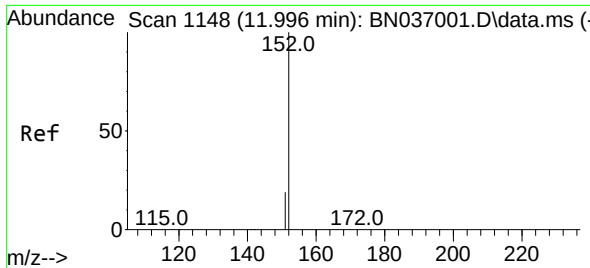
Tgt Ion:	128	Resp:	5367
Ion	Ratio	Lower	Upper
128	100		
129	12.3	9.7	14.5
127	14.8	12.4	18.6



#10
Hexachlorobutadiene
Concen: 0.397 ng
RT: 10.735 min Scan# 979
Delta R.T. -0.011 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:	225	Resp:	1150
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.1	50.9	76.3

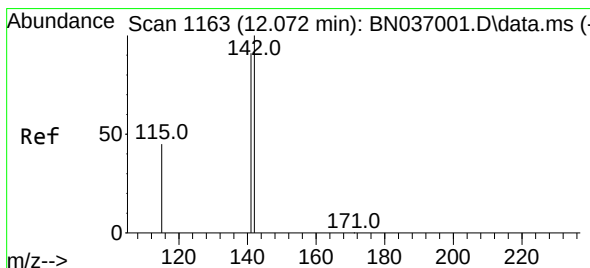
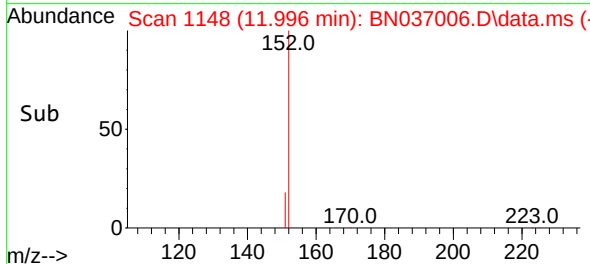
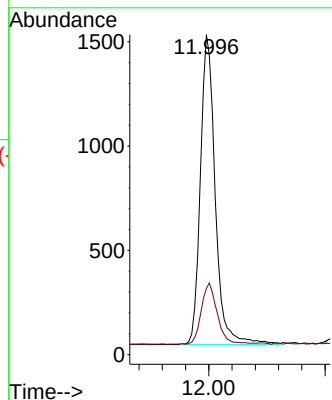
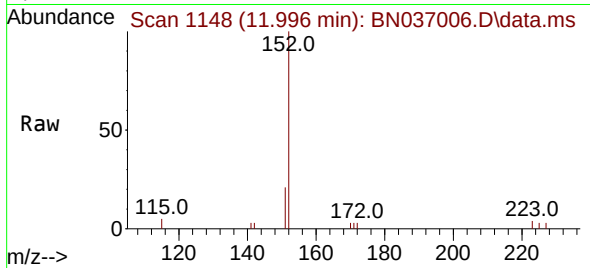




#11
2-Methylnaphthalene-d10
Concen: 0.402 ng
RT: 11.996 min Scan# 1148
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

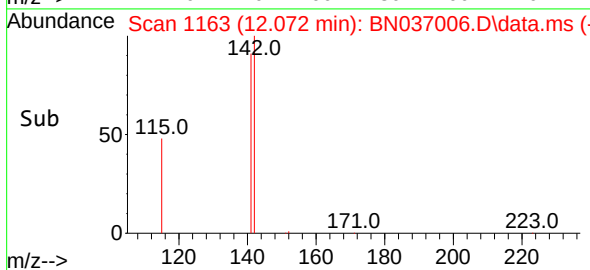
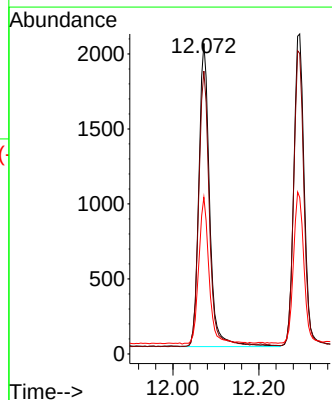
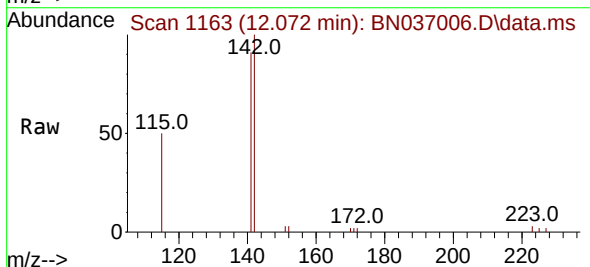
Instrument :
BNA_N
ClientSampleId :
ICVBN051424

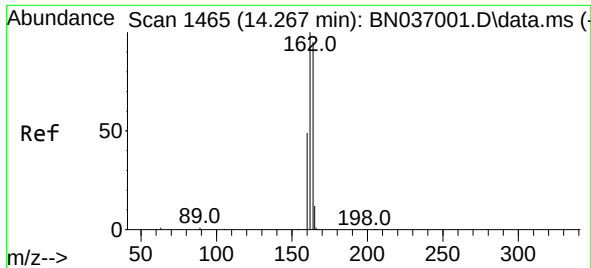
Tgt Ion:152 Resp: 2642
Ion Ratio Lower Upper
152 100
151 21.2 17.5 26.3



#12
2-Methylnaphthalene
Concen: 0.396 ng
RT: 12.072 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:142 Resp: 3513
Ion Ratio Lower Upper
142 100
141 91.1 73.3 109.9
115 50.4 38.4 57.6

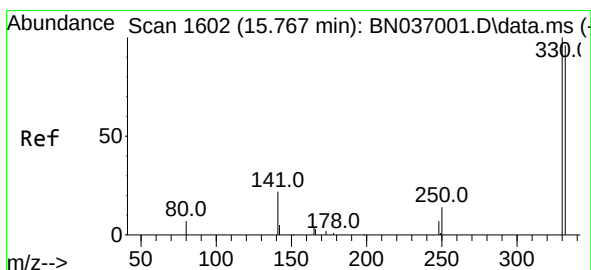
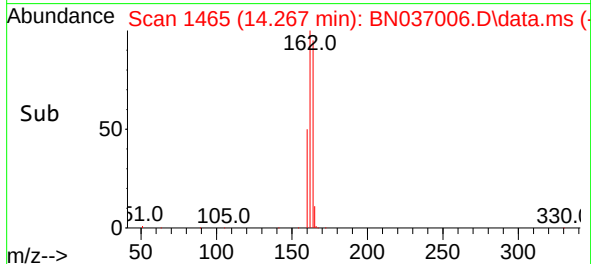
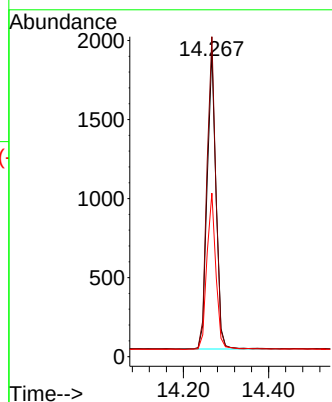
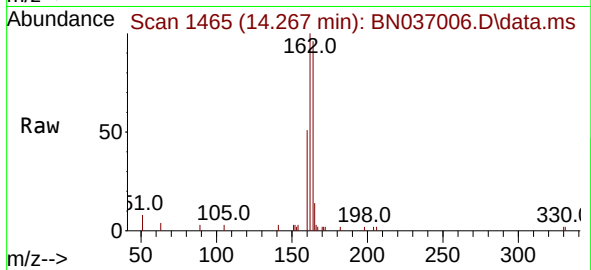




#13
 Acenaphthene-d10
 Concen: 0.400 ng
 RT: 14.267 min Scan# 1465
 Delta R.T. 0.000 min
 Lab File: BN037006.D
 Acq: 13 May 2025 22:29

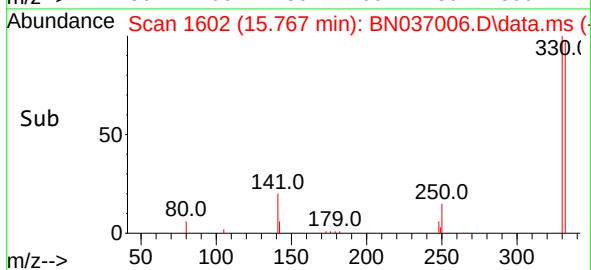
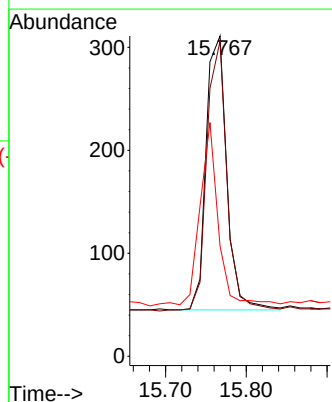
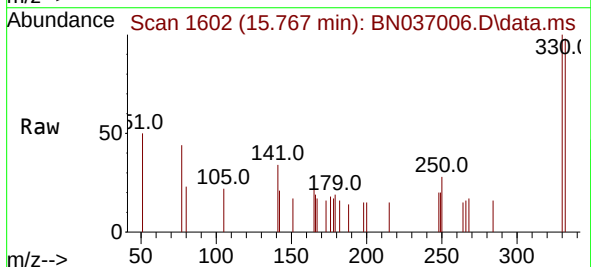
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN051424

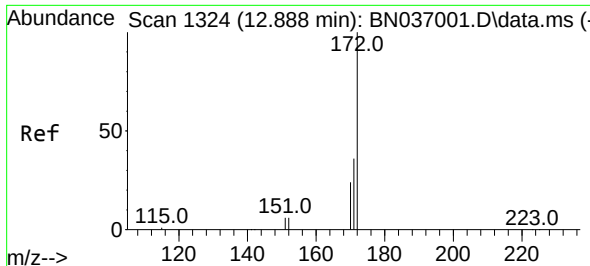
Tgt Ion:164 Resp: 2720
 Ion Ratio Lower Upper
 164 100
 162 104.7 84.2 126.4
 160 53.5 42.6 63.8



#14
 2,4,6-Tribromophenol
 Concen: 0.397 ng
 RT: 15.767 min Scan# 1602
 Delta R.T. 0.000 min
 Lab File: BN037006.D
 Acq: 13 May 2025 22:29

Tgt Ion:330 Resp: 474
 Ion Ratio Lower Upper
 330 100
 332 96.0 73.8 110.8
 141 59.7 43.9 65.9

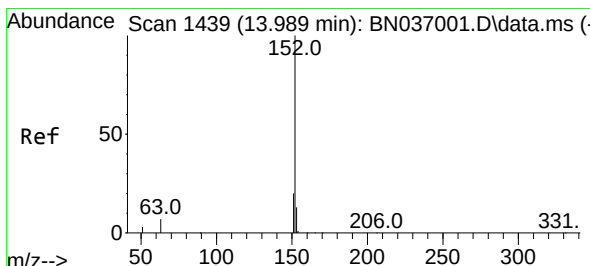
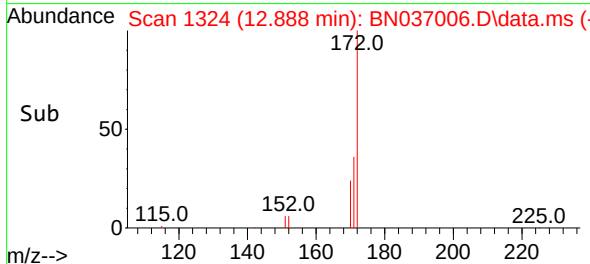
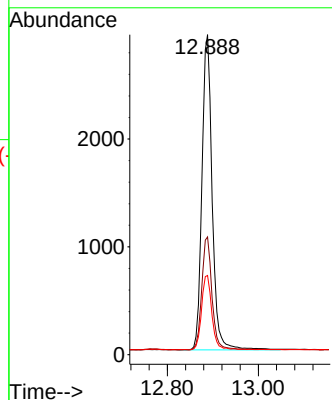
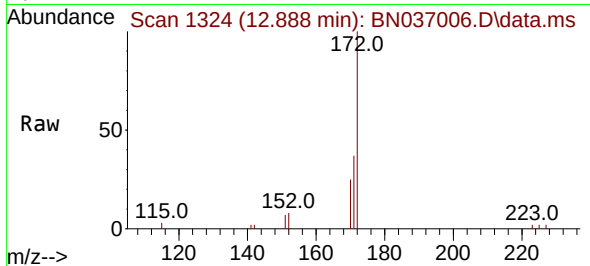




#15
2-Fluorobiphenyl
Concen: 0.406 ng
RT: 12.888 min Scan# 1324
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

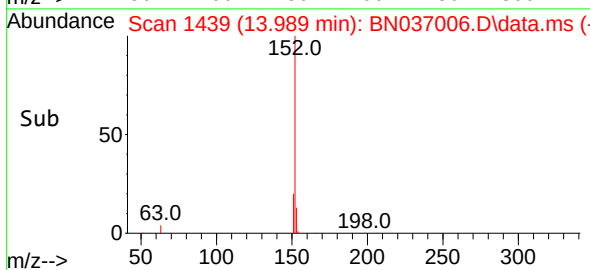
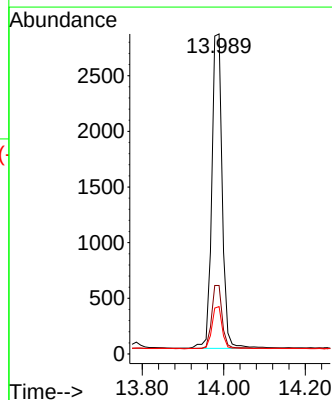
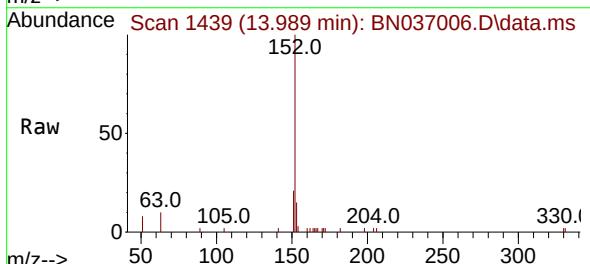
Instrument :
BNA_N
ClientSampleId :
ICVBN051424

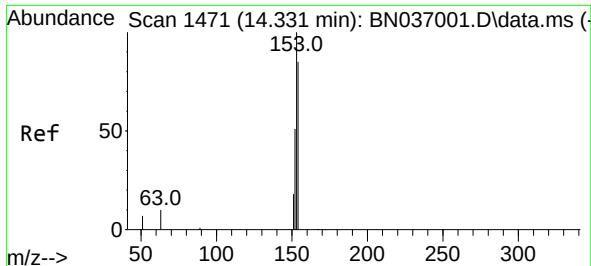
Tgt Ion:	172	Resp:	5054
Ion Ratio	Lower	Upper	
172	100		
171	36.8	29.2	43.8
170	24.8	20.5	30.7



#16
Acenaphthylene
Concen: 0.379 ng
RT: 13.989 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:	152	Resp:	5019
Ion Ratio	Lower	Upper	
152	100		
151	20.1	16.1	24.1
153	13.4	10.5	15.7

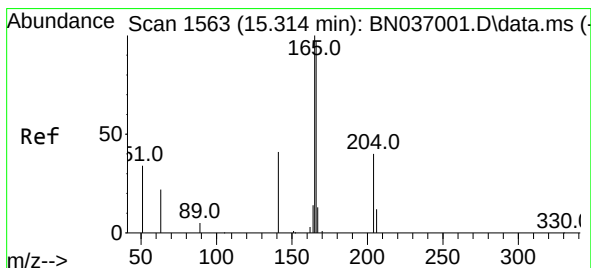
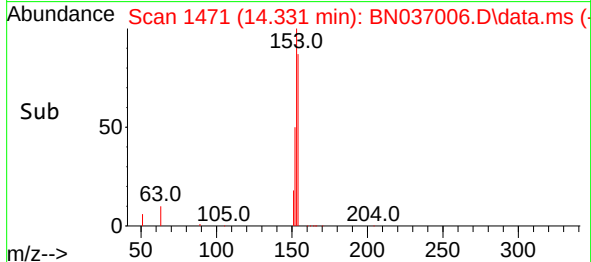
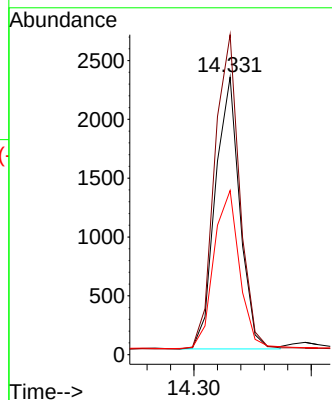
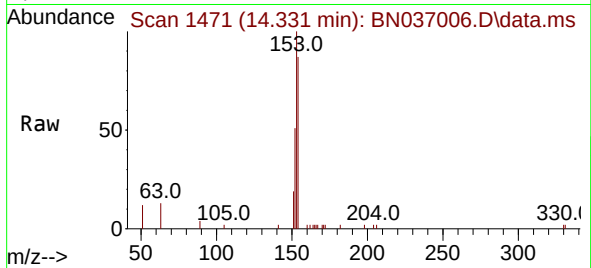




#17
Acenaphthene
Concen: 0.387 ng
RT: 14.331 min Scan# 1471
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

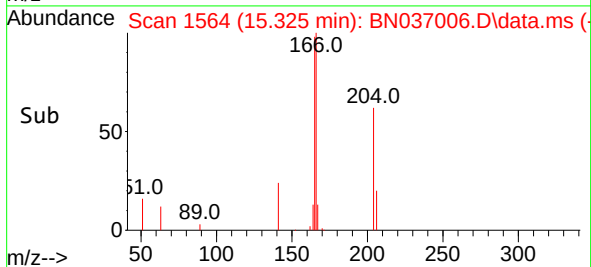
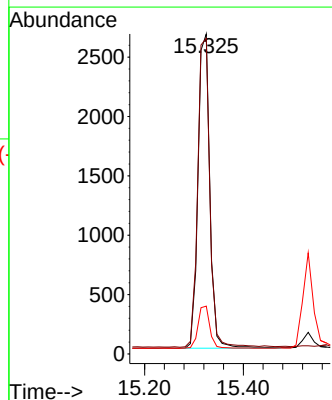
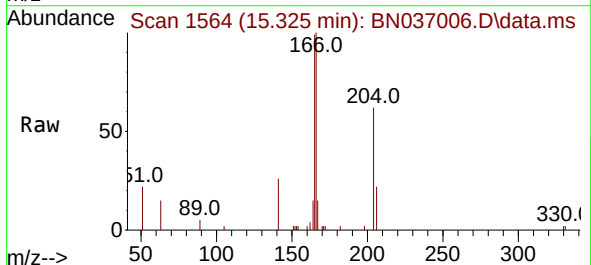
Instrument :
BNA_N
ClientSampleId :
ICVBN051424

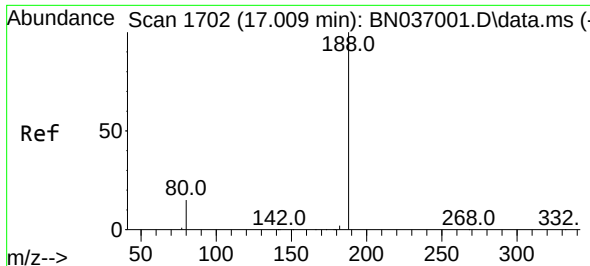
Tgt Ion:154 Resp: 3352
Ion Ratio Lower Upper
154 100
153 118.0 94.2 141.4
152 61.8 49.4 74.0



#18
Fluorene
Concen: 0.388 ng
RT: 15.325 min Scan# 1564
Delta R.T. 0.011 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:166 Resp: 4398
Ion Ratio Lower Upper
166 100
165 100.3 80.6 120.8
167 13.7 10.6 16.0

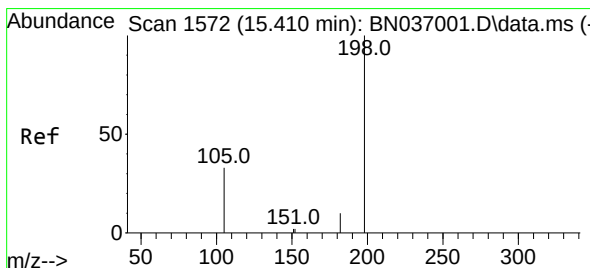
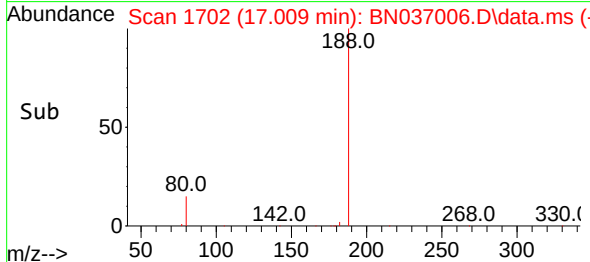
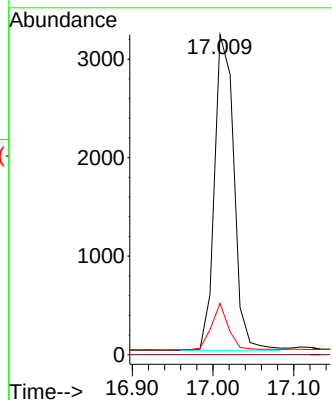
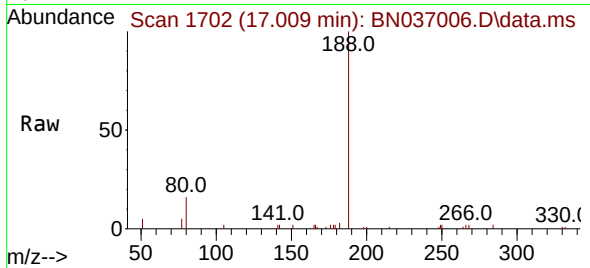




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.009 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

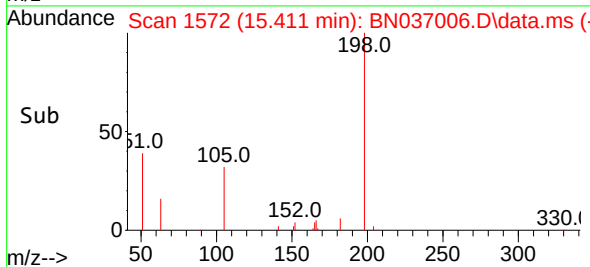
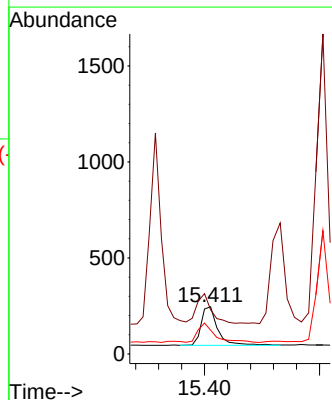
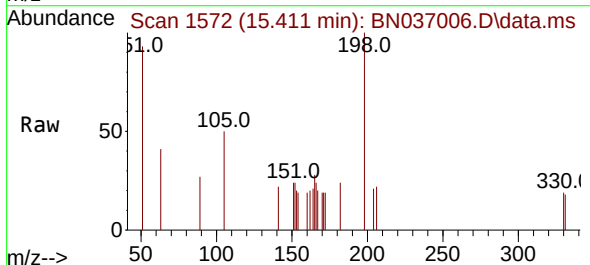
Instrument :
BNA_N
ClientSampleId :
ICVBN051424

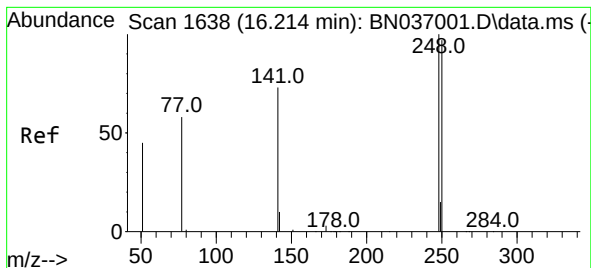
Tgt Ion:188 Resp: 5359
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 16.1 13.4 20.0



#20
4,6-Dinitro-2-methylphenol
Concen: 0.396 ng
RT: 15.411 min Scan# 1572
Delta R.T. 0.001 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:198 Resp: 410
Ion Ratio Lower Upper
198 100
51 93.5 87.8 131.6
105 50.4 44.2 66.4

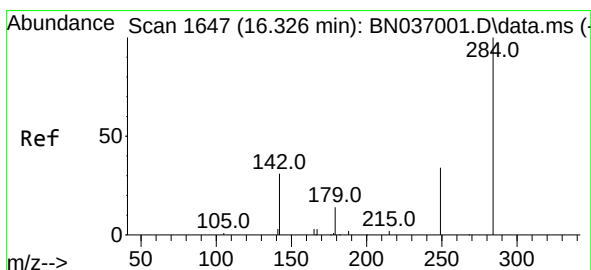
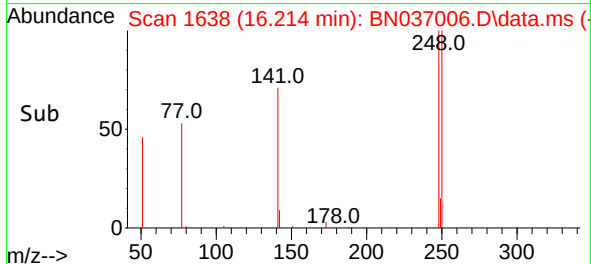
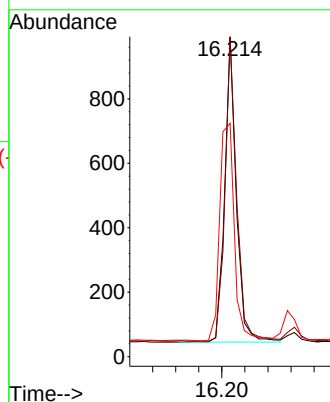
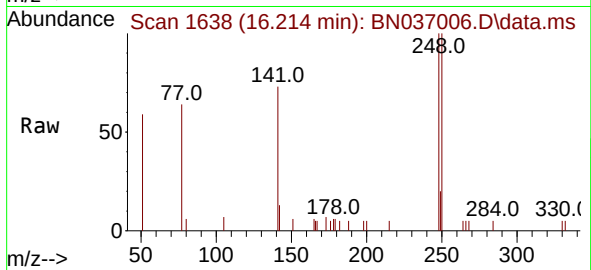




#21
4-Bromophenyl-phenylether
Concen: 0.392 ng
RT: 16.214 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

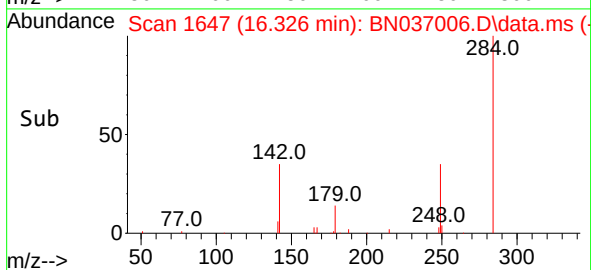
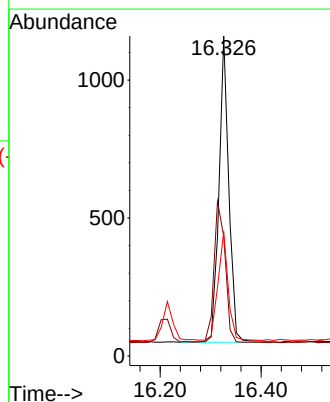
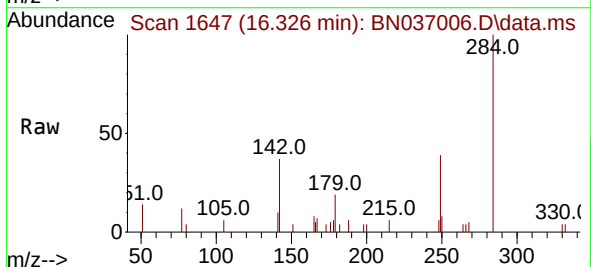
Instrument :
BNA_N
ClientSampleId :
ICVBN051424

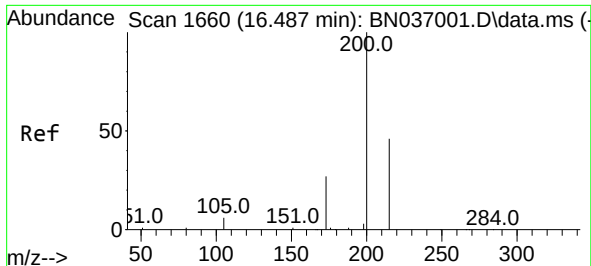
Tgt Ion:248 Resp: 1326
Ion Ratio Lower Upper
248 100
250 100.1 78.1 117.1
141 73.0 59.7 89.5



#22
Hexachlorobenzene
Concen: 0.411 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:284 Resp: 1488
Ion Ratio Lower Upper
284 100
142 53.0 41.2 61.8
249 37.0 28.7 43.1

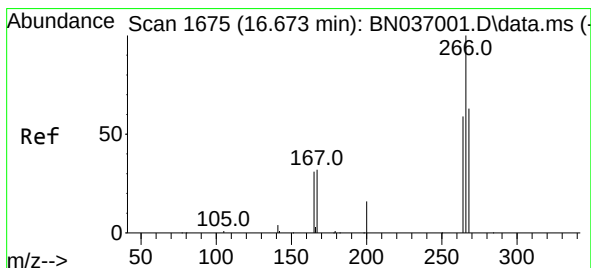
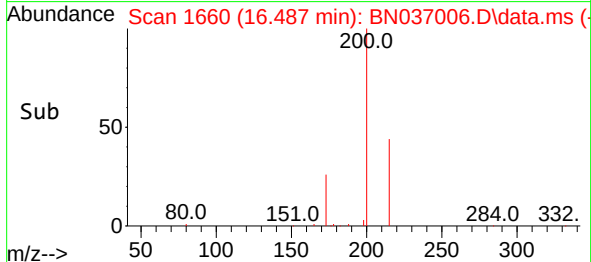
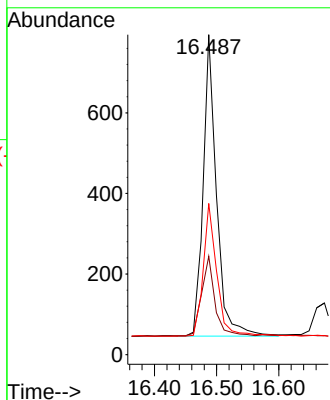
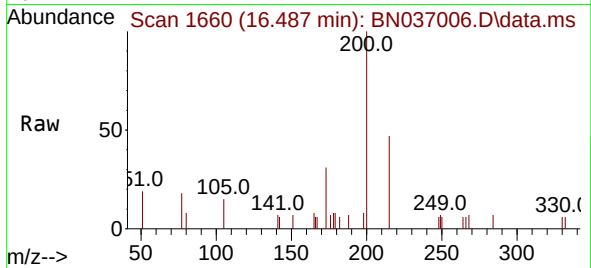




#23
 Atrazine
 Concen: 0.379 ng
 RT: 16.487 min Scan# 1660
 Delta R.T. 0.000 min
 Lab File: BN037006.D
 Acq: 13 May 2025 22:29

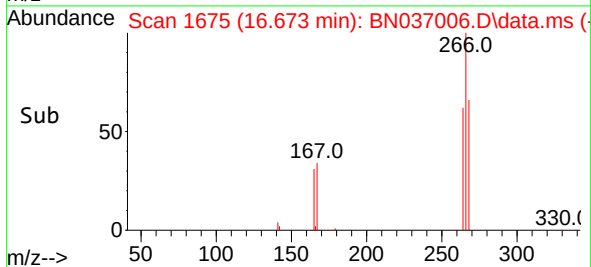
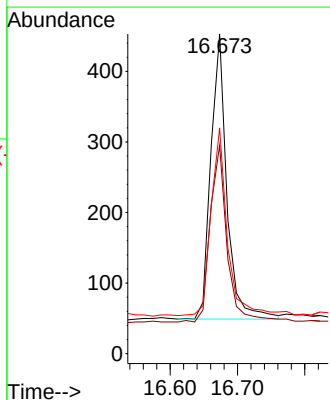
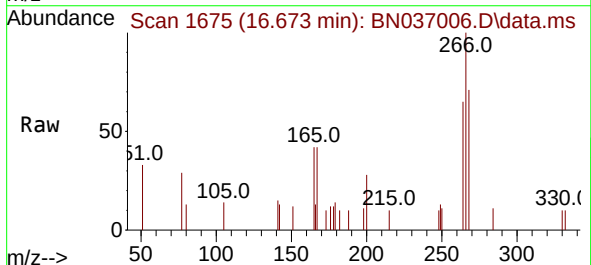
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN051424

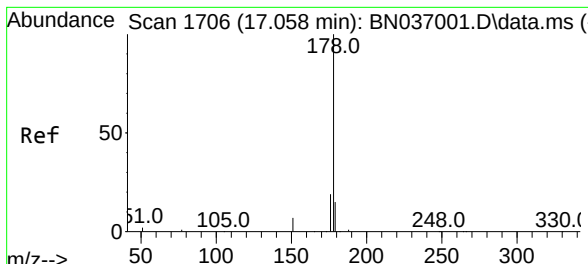
Tgt Ion	Ratio	Lower	Upper
200	100		
173	30.7	25.2	37.8
215	47.2	39.3	58.9



#24
 Pentachlorophenol
 Concen: 0.336 ng
 RT: 16.673 min Scan# 1675
 Delta R.T. 0.000 min
 Lab File: BN037006.D
 Acq: 13 May 2025 22:29

Tgt Ion	Ratio	Lower	Upper
266	100		
264	64.9	47.9	71.9
268	67.7	50.0	75.0



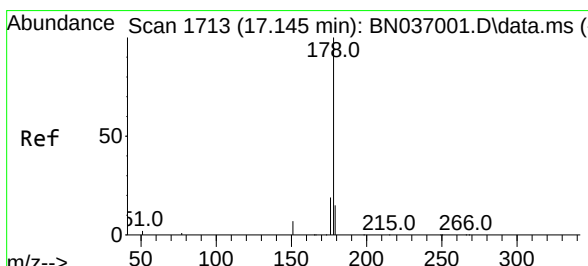
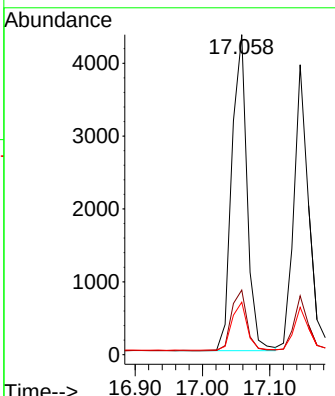
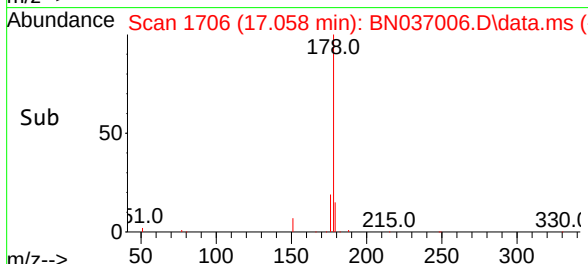
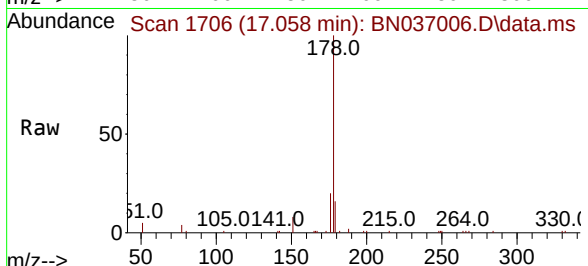


#25
 Phenanthrene
 Concen: 0.391 ng
 RT: 17.058 min Scan# 1706
 Delta R.T. 0.000 min
 Lab File: BN037006.D
 Acq: 13 May 2025 22:29

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN051424

Tgt Ion:178 Resp: 6852

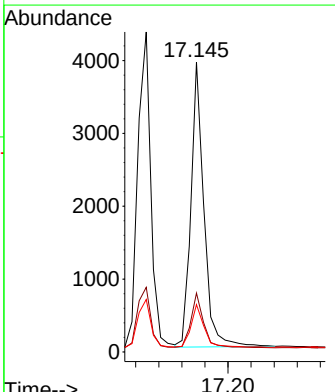
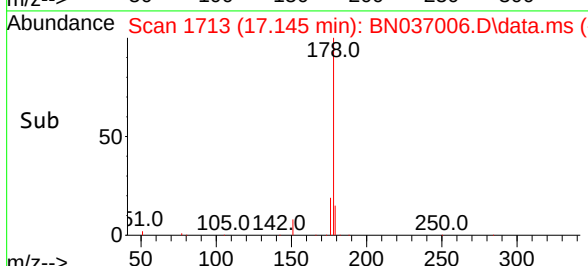
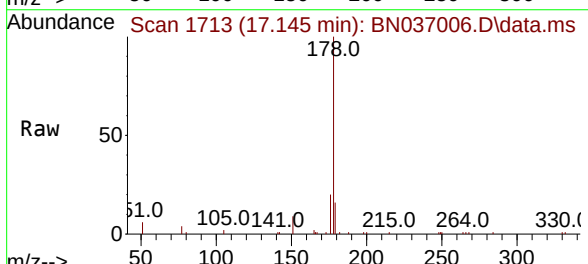
Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.7	23.5
179	15.6	12.2	18.2

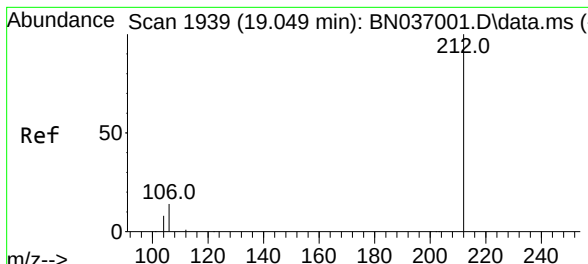


#26
 Anthracene
 Concen: 0.384 ng
 RT: 17.145 min Scan# 1713
 Delta R.T. 0.000 min
 Lab File: BN037006.D
 Acq: 13 May 2025 22:29

Tgt Ion:178 Resp: 6126

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.6
179	15.1	12.3	18.5

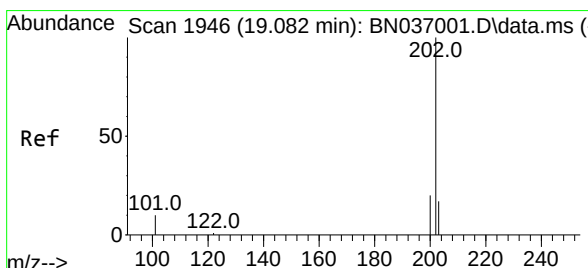
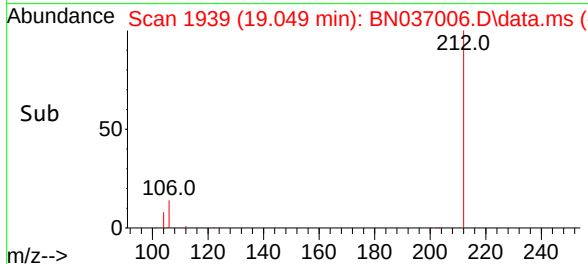
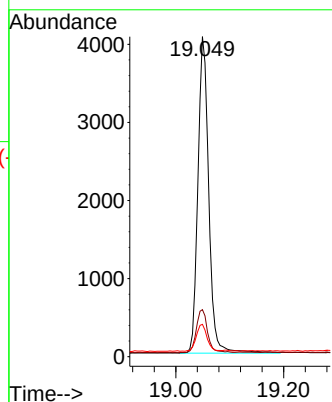
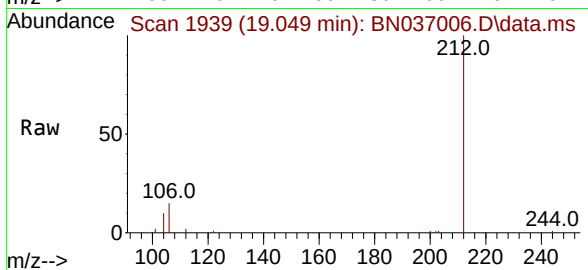




#27
Fluoranthene-d10
Concen: 0.384 ng
RT: 19.049 min Scan# 1939
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

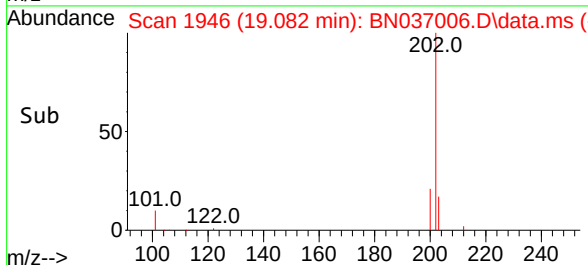
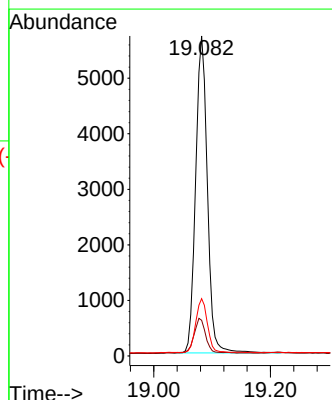
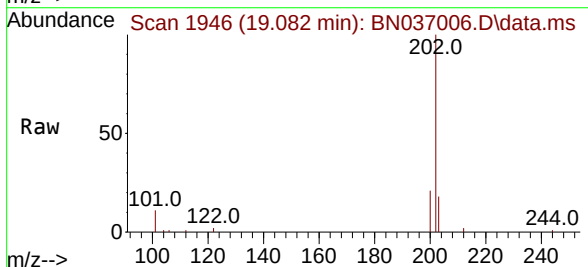
Instrument :
BNA_N
ClientSampleId :
ICVBN051424

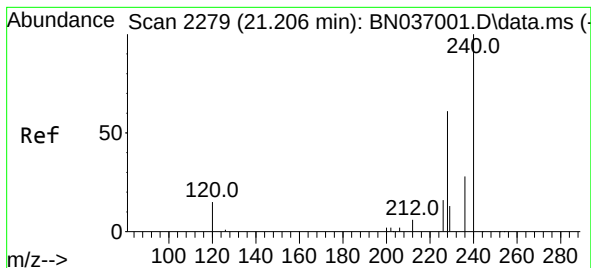
Tgt Ion:212 Resp: 5648
Ion Ratio Lower Upper
212 100
106 13.9 11.3 16.9
104 8.5 6.7 10.1



#28
Fluoranthene
Concen: 0.380 ng
RT: 19.082 min Scan# 1946
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:202 Resp: 7940
Ion Ratio Lower Upper
202 100
101 11.1 8.9 13.3
203 16.9 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.206 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037006.D

Acq: 13 May 2025 22:29

Instrument :

BNA_N

ClientSampleId :

ICVBN051424

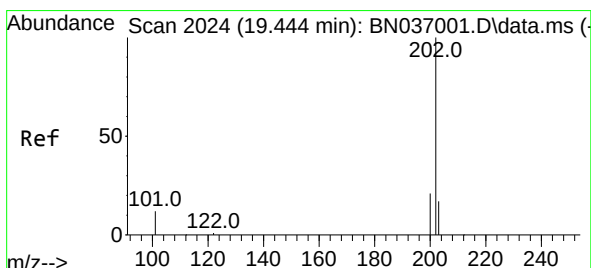
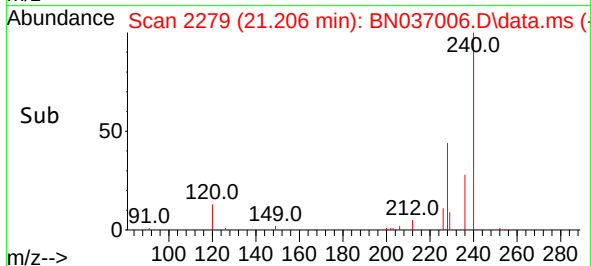
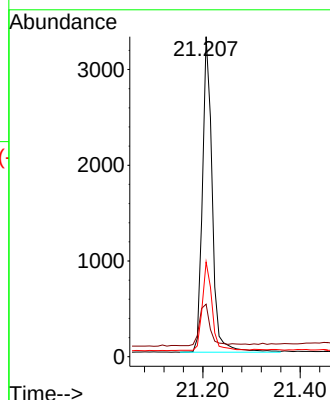
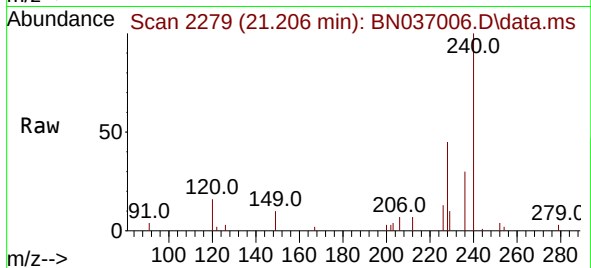
Tgt Ion:240 Resp: 4597

Ion Ratio Lower Upper

240 100

120 16.4 15.1 22.7

236 29.6 24.0 36.0



#30

Pyrene

Concen: 0.412 ng

RT: 19.444 min Scan# 2024

Delta R.T. 0.000 min

Lab File: BN037006.D

Acq: 13 May 2025 22:29

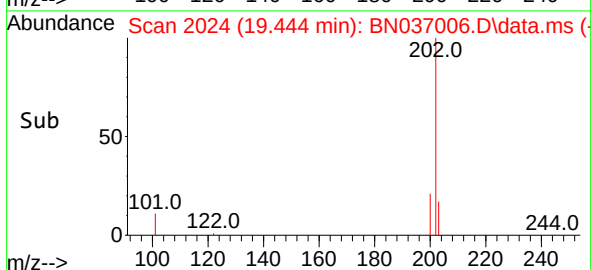
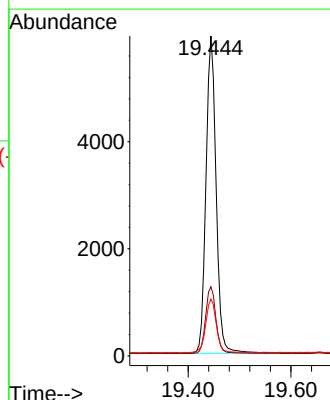
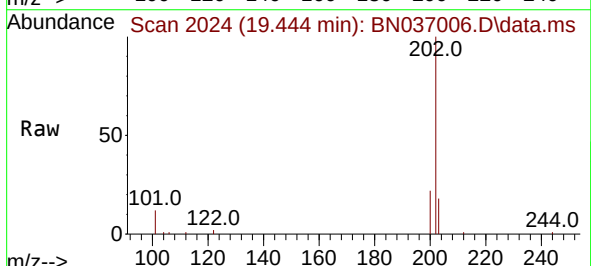
Tgt Ion:202 Resp: 8093

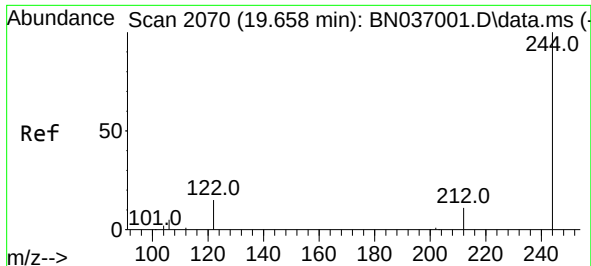
Ion Ratio Lower Upper

202 100

200 21.5 17.1 25.7

203 17.7 14.2 21.4

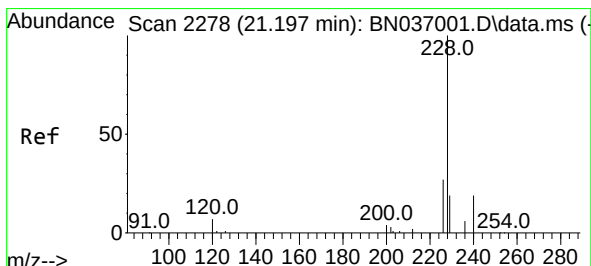
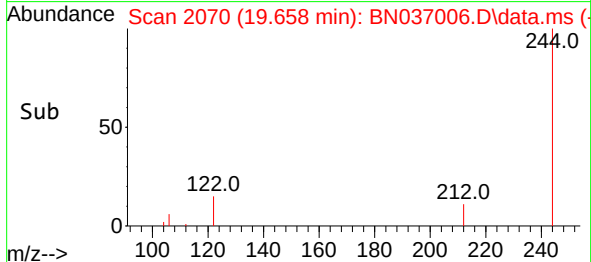
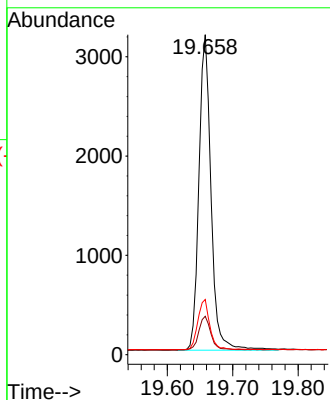
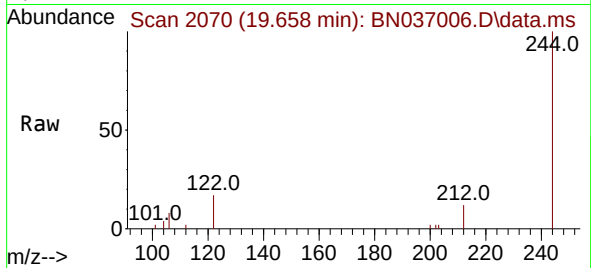




#31
 Terphenyl-d14
 Concen: 0.415 ng
 RT: 19.658 min Scan# 2070
 Delta R.T. 0.000 min
 Lab File: BN037006.D
 Acq: 13 May 2025 22:29

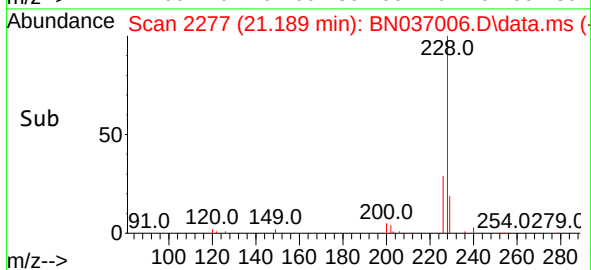
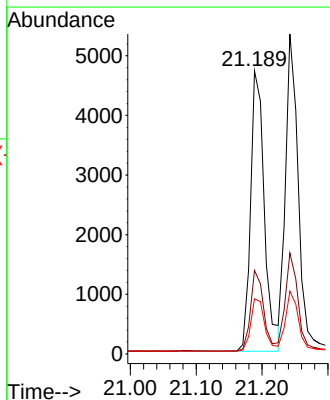
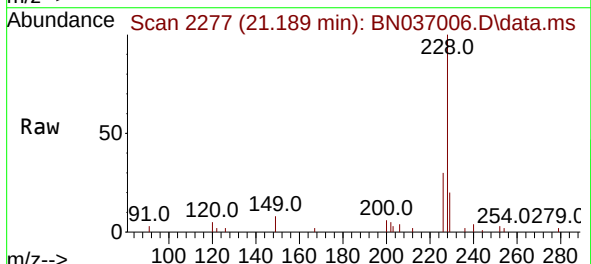
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN051424

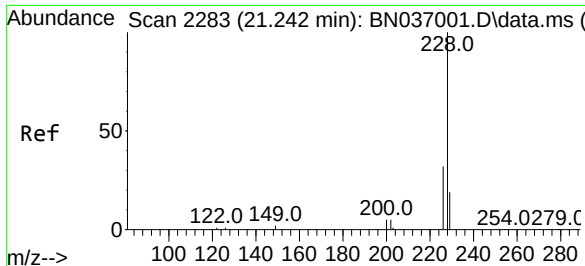
Tgt Ion:	244	Resp:	4080
Ion	Ratio	Lower	Upper
244	100		
212	12.0	9.7	14.5
122	17.2	13.4	20.0



#32
 Benzo(a)anthracene
 Concen: 0.394 ng
 RT: 21.189 min Scan# 2277
 Delta R.T. -0.009 min
 Lab File: BN037006.D
 Acq: 13 May 2025 22:29

Tgt Ion:	228	Resp:	6824
Ion	Ratio	Lower	Upper
228	100		
226	29.5	22.2	33.4
229	19.5	16.0	24.0





#33

Chrysene

Concen: 0.399 ng

RT: 21.242 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037006.D

Acq: 13 May 2025 22:29

Instrument :

BNA_N

ClientSampleId :

ICVBN051424

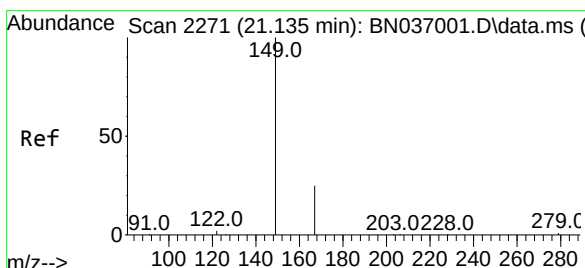
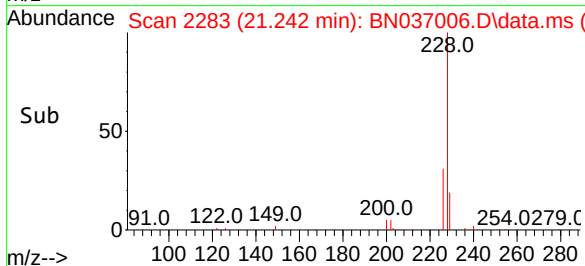
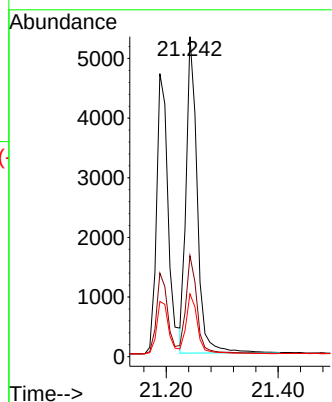
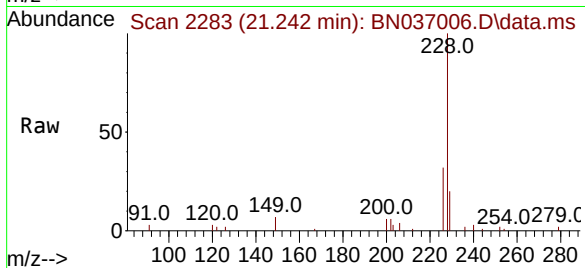
Tgt Ion:228 Resp: 7298

Ion Ratio Lower Upper

228 100

226 31.6 26.3 39.5

229 19.6 16.2 24.2



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.387 ng

RT: 21.135 min Scan# 2271

Delta R.T. 0.000 min

Lab File: BN037006.D

Acq: 13 May 2025 22:29

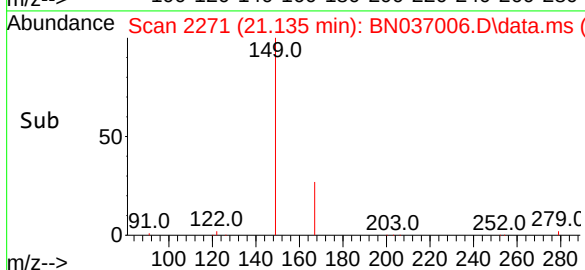
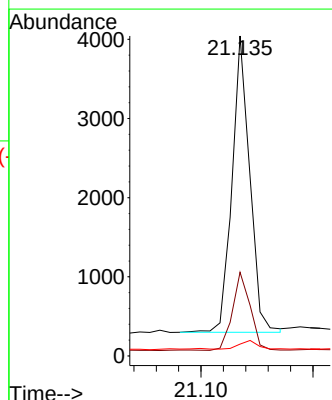
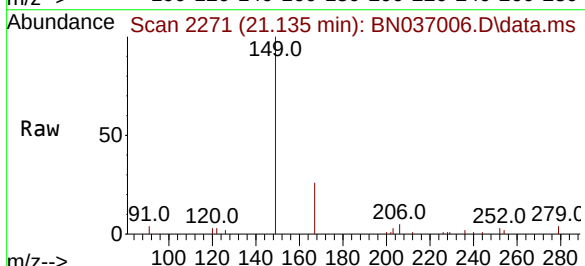
Tgt Ion:149 Resp: 4120

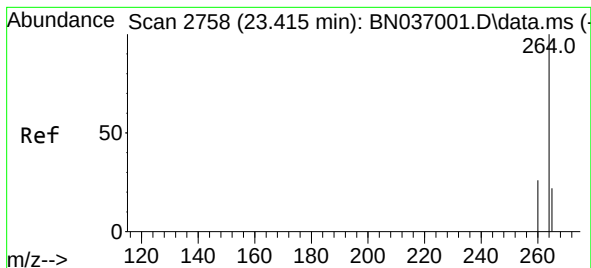
Ion Ratio Lower Upper

149 100

167 26.1 20.6 30.8

279 2.9 2.6 3.8





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.415 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037006.D

Acq: 13 May 2025 22:29

Instrument :

BNA_N

ClientSampleId :

ICVBN051424

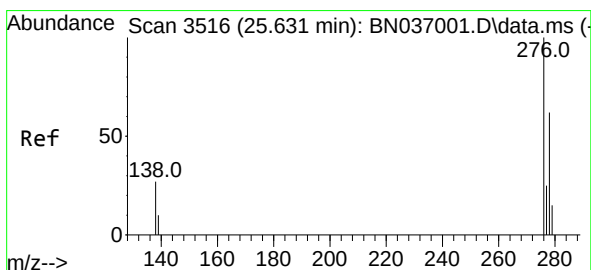
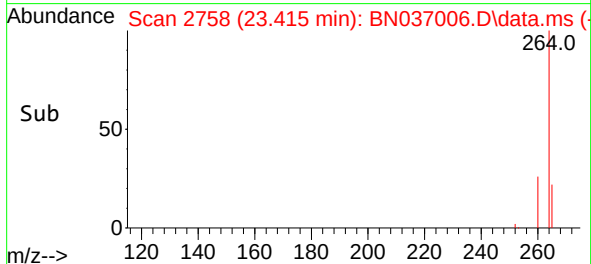
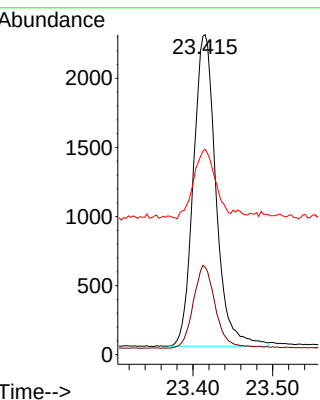
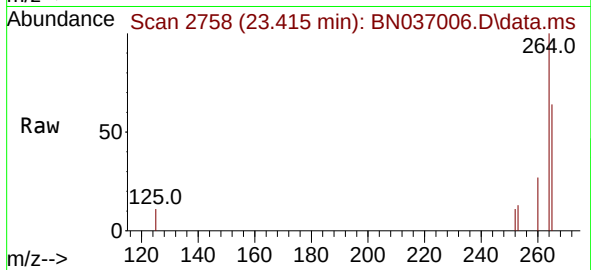
Tgt Ion:264 Resp: 4432

Ion Ratio Lower Upper

264 100

260 27.4 21.9 32.9

265 64.2 51.6 77.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.407 ng

RT: 25.623 min Scan# 3513

Delta R.T. -0.009 min

Lab File: BN037006.D

Acq: 13 May 2025 22:29

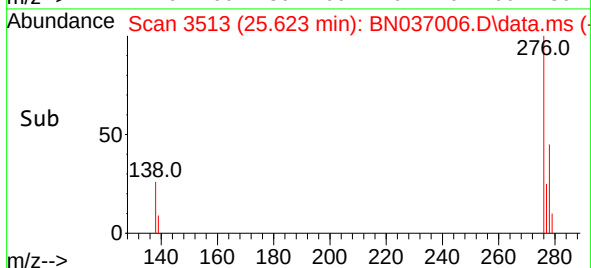
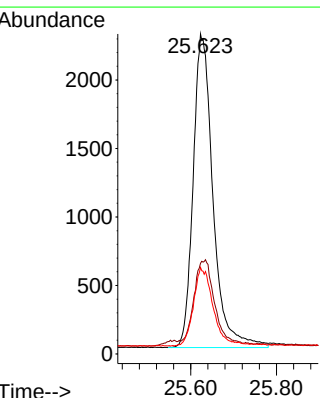
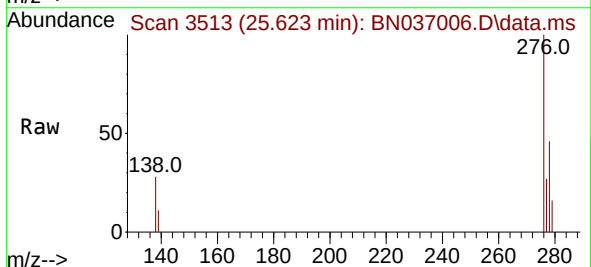
Tgt Ion:276 Resp: 7358

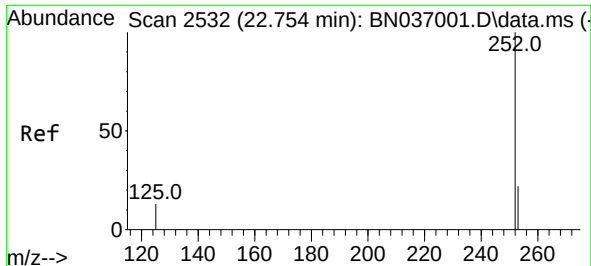
Ion Ratio Lower Upper

276 100

138 26.6 22.7 34.1

277 24.6 20.0 30.0

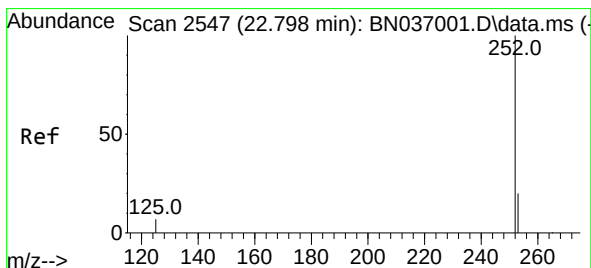
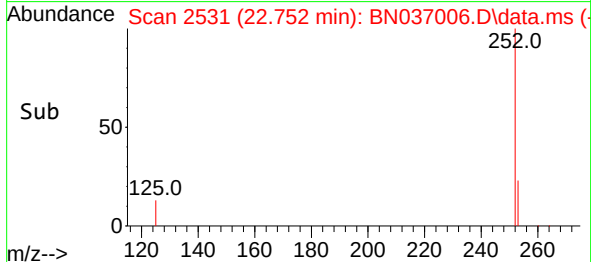
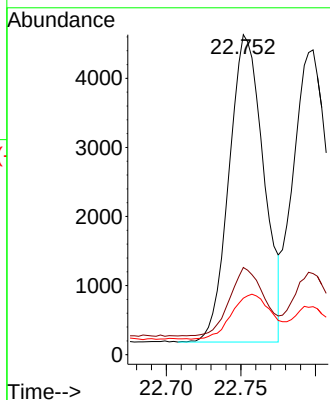
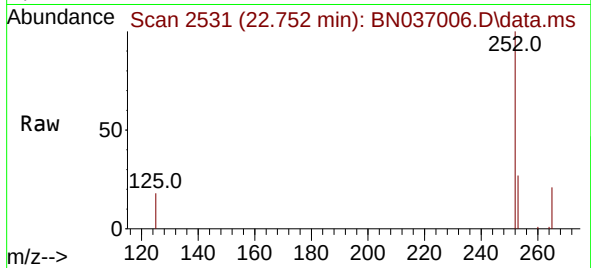




#37
Benzo(b)fluoranthene
Concen: 0.391 ng
RT: 22.752 min Scan# 2532
Delta R.T. -0.003 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

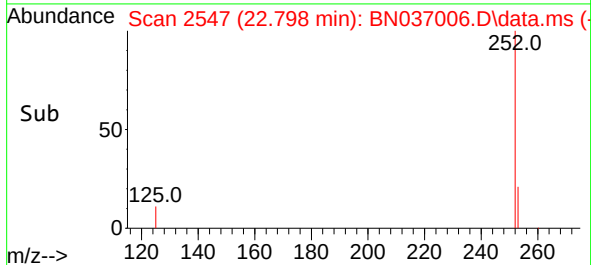
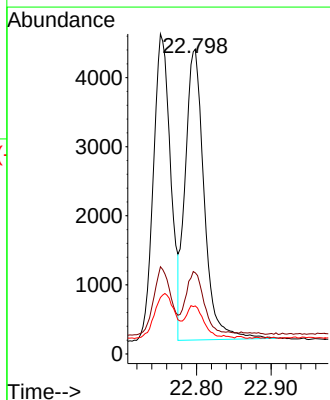
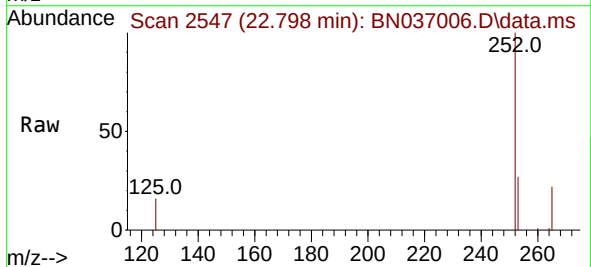
Instrument :
BNA_N
ClientSampleId :
ICVBN051424

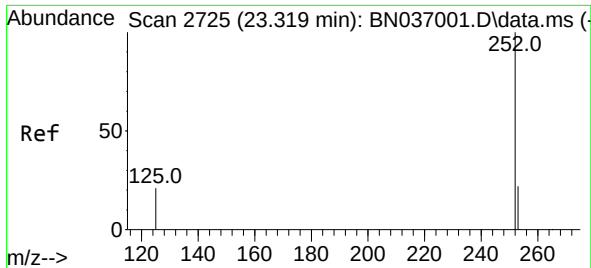
Tgt Ion:252 Resp: 7184
Ion Ratio Lower Upper
252 100
253 27.3 21.8 32.6
125 17.7 14.6 21.8



#38
Benzo(k)fluoranthene
Concen: 0.410 ng
RT: 22.798 min Scan# 2547
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

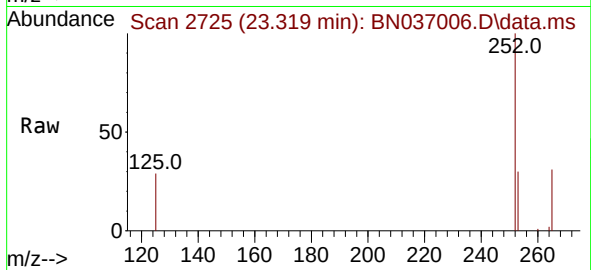
Tgt Ion:252 Resp: 7438
Ion Ratio Lower Upper
252 100
253 26.6 21.4 32.2
125 15.7 13.0 19.4



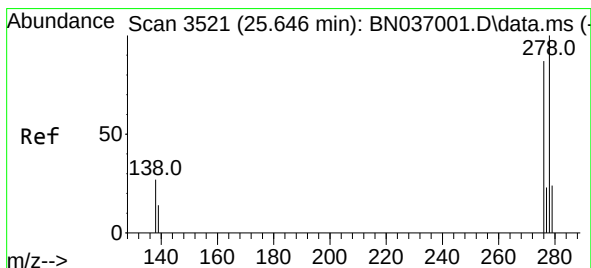
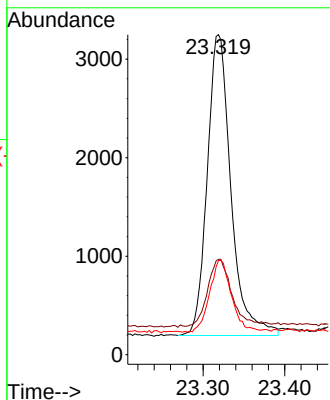
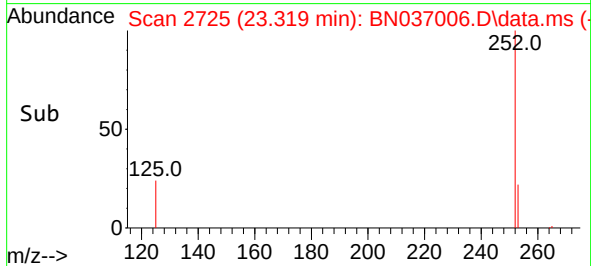


#39
Benzo(a)pyrene
Concen: 0.395 ng
RT: 23.319 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Instrument :
BNA_N
ClientSampleId :
ICVBN051424

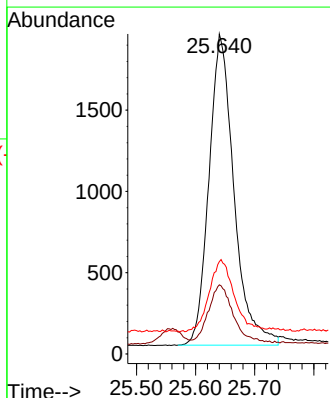
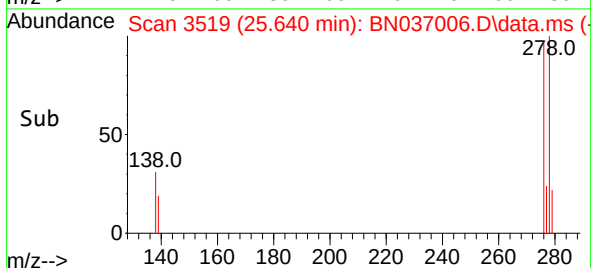
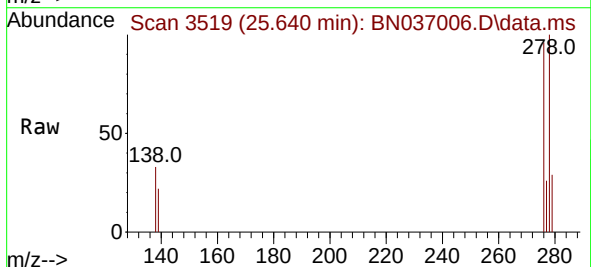


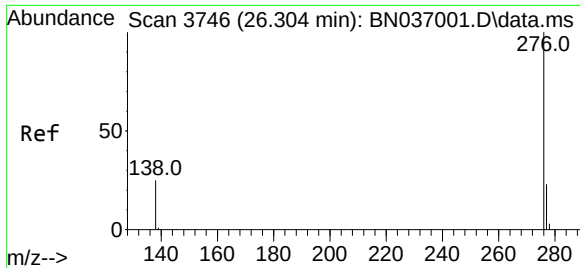
Tgt Ion:252 Resp: 6167
Ion Ratio Lower Upper
252 100
253 29.8 23.8 35.6
125 29.5 21.8 32.6



#40
Dibenzo(a,h)anthracene
Concen: 0.399 ng
RT: 25.640 min Scan# 3519
Delta R.T. -0.006 min
Lab File: BN037006.D
Acq: 13 May 2025 22:29

Tgt Ion:278 Resp: 5621
Ion Ratio Lower Upper
278 100
139 21.6 17.4 26.0
279 28.8 24.6 37.0

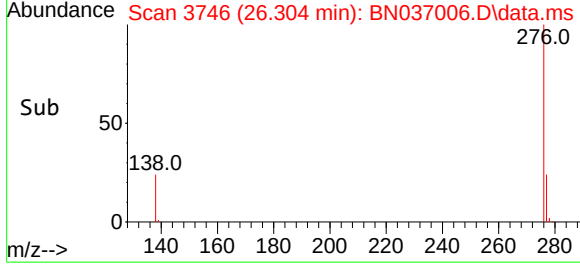
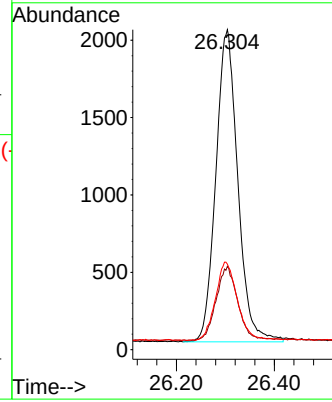
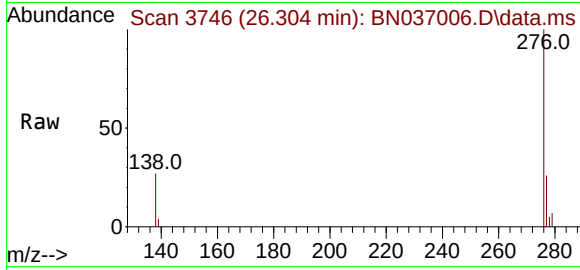




#41
 Benzo(g,h,i)perylene
 Concen: 0.409 ng
 RT: 26.304 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: BN037006.D
 Acq: 13 May 2025 22:29

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN051424

Tgt Ion:	276	Resp:	6268
Ion Ratio	Lower	Upper	
276	100		
277	26.1	20.2	30.4
138	26.7	22.0	33.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037006.D
 Acq On : 13 May 2025 22:29
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN051424

Quant Time: May 14 11:28:08 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 11:26:32 2025
 Response via : Initial Calibration

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

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	100	0.00
2	1,4-Dioxane	0.491	0.499	-1.6	98	0.00
3	n-Nitrosodimethylamine	1.054	1.029	2.4	105	0.00
4 S	2-Fluorophenol	1.048	1.109	-5.8	98	0.00
5 S	Phenol-d6	1.311	1.338	-2.1	97	0.00
6	bis(2-Chloroethyl)ether	1.207	1.157	4.1	101	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	102	0.00
8 S	Nitrobenzene-d5	0.436	0.413	5.3	105	0.00
9	Naphthalene	1.182	1.150	2.7	102	0.00
10	Hexachlorobutadiene	0.248	0.246	0.8	103	-0.01
11 SURR	2-Methylnaphthalene-d10	0.563	0.566	-0.5	104	0.00
12	2-Methylnaphthalene	0.760	0.753	0.9	104	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	106	0.00
14 S	2,4,6-Tribromophenol	0.176	0.174	1.1	104	0.00
15 S	2-Fluorobiphenyl	1.832	1.858	-1.4	104	0.00
16	Acenaphthylene	1.947	1.845	5.2	103	0.00
17	Acenaphthene	1.272	1.232	3.1	105	0.00
18	Fluorene	1.669	1.617	3.1	105	0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	107	0.00
20	4,6-Dinitro-2-methylphenol	0.090	0.077	14.4	112	0.00
21	4-Bromophenyl-phenylether	0.253	0.247	2.4	106	0.00
22	Hexachlorobenzene	0.270	0.278	-3.0	106	0.00
23	Atrazine	0.220	0.209	5.0	106	0.00
24	Pentachlorophenol	0.149	0.125	16.1	95	0.00
25	Phenanthrene	1.307	1.279	2.1	106	0.00
26	Anthracene	1.190	1.143	3.9	105	0.00
27 SURR	Fluoranthene-d10	1.097	1.054	3.9	105	0.00
28	Fluoranthene	1.562	1.482	5.1	106	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	103	0.00
30	Pyrene	1.711	1.760	-2.9	105	0.00
31 S	Terphenyl-d14	0.856	0.888	-3.7	105	0.00
32	Benzo(a)anthracene	1.506	1.484	1.5	103	0.00
33	Chrysene	1.593	1.588	0.3	101	0.00
34	Bis(2-ethylhexyl)phthalate	0.927	0.896	3.3	102	0.00
35 I	Perylene-d12	1.000	1.000	0.0	98	0.00
36	Indeno(1,2,3-cd)pyrene	1.634	1.660	-1.6	99	0.00
37	Benzo(b)fluoranthene	1.659	1.621	2.3	99	0.00
38	Benzo(k)fluoranthene	1.639	1.678	-2.4	100	0.00
39 C	Benzo(a)pyrene	1.407	1.391	1.1	99	0.00
40	Dibenzo(a,h)anthracene	1.272	1.268	0.3	98	0.00
41	Benzo(g,h,i)perylene	1.383	1.414	-2.2	97	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037006.D
 Acq On : 13 May 2025 22:29
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN051424

Quant Time: May 14 11:28:08 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 11:26:32 2025
 Response via : Initial Calibration

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

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1 I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	100	0.00
2	1,4-Dioxane	0.400	0.407	-1.7	98	0.00
3	n-Nitrosodimethylamine	0.400	0.390	2.5	105	0.00
4 S	2-Fluorophenol	0.400	0.423	-5.7	98	0.00
5 S	Phenol-d6	0.400	0.408	-2.0	97	0.00
6	bis(2-Chloroethyl)ether	0.400	0.383	4.3	101	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	102	0.00
8 S	Nitrobenzene-d5	0.400	0.379	5.3	105	0.00
9	Naphthalene	0.400	0.389	2.8	102	0.00
10	Hexachlorobutadiene	0.400	0.397	0.8	103	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.402	-0.5	104	0.00
12	2-Methylnaphthalene	0.400	0.396	1.0	104	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	106	0.00
14 S	2,4,6-Tribromophenol	0.400	0.397	0.8	104	0.00
15 S	2-Fluorobiphenyl	0.400	0.406	-1.5	104	0.00
16	Acenaphthylene	0.400	0.379	5.3	103	0.00
17	Acenaphthene	0.400	0.387	3.3	105	0.00
18	Fluorene	0.400	0.388	3.0	105	0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	107	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.396	1.0	112	0.00
21	4-Bromophenyl-phenylether	0.400	0.392	2.0	106	0.00
22	Hexachlorobenzene	0.400	0.411	-2.7	106	0.00
23	Atrazine	0.400	0.379	5.3	106	0.00
24	Pentachlorophenol	0.400	0.336	16.0	95	0.00
25	Phenanthrene	0.400	0.391	2.3	106	0.00
26	Anthracene	0.400	0.384	4.0	105	0.00
27 SURR	Fluoranthene-d10	0.400	0.384	4.0	105	0.00
28	Fluoranthene	0.400	0.380	5.0	106	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	103	0.00
30	Pyrene	0.400	0.412	-3.0	105	0.00
31 S	Terphenyl-d14	0.400	0.415	-3.7	105	0.00
32	Benzo(a)anthracene	0.400	0.394	1.5	103	0.00
33	Chrysene	0.400	0.399	0.3	101	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.387	3.3	102	0.00
35 I	Perylene-d12	0.400	0.400	0.0	98	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.407	-1.7	99	0.00
37	Benzo(b)fluoranthene	0.400	0.391	2.3	99	0.00
38	Benzo(k)fluoranthene	0.400	0.410	-2.5	100	0.00
39 C	Benzo(a)pyrene	0.400	0.395	1.3	99	0.00
40	Dibenzo(a,h)anthracene	0.400	0.399	0.3	98	0.00
41	Benzo(g,h,i)perylene	0.400	0.409	-2.2	97	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.: Q1872 SAS No.: Q1872 SDG No.: Q1872

Instrument ID: BNA_N Calibration Date/Time: 05/08/2025 14:28

Lab File ID: BN036972.D Init. Calib. Date(s): 04/28/2025 04/28/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:35 15:12

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.559	0.538		-3.8	20.0
Fluoranthene-d10	1.037	1.049		1.2	20.0
2-Fluorophenol	1.023	1.032		0.9	20.0
Phenol-d6	1.259	1.275		1.3	20.0
Nitrobenzene-d5	0.418	0.416		-0.5	20.0
Naphthalene	1.164	1.153		-0.9	20.0
2-Methylnaphthalene	0.753	0.727		-3.5	20.0
2-Fluorobiphenyl	1.933	1.961		1.4	20.0
Acenaphthylene	1.955	1.883		-3.7	20.0
Acenaphthene	1.284	1.257		-2.1	20.0
Fluorene	1.680	1.650		-1.8	20.0
2,4,6-Tribromophenol	0.178	0.170		-4.5	20.0
Phenanthrene	1.320	1.289		-2.3	20.0
Anthracene	1.194	1.137		-4.8	20.0
Fluoranthene	1.480	1.491		0.7	20.0
Pyrene	1.927	1.709		-11.3	20.0
Terphenyl-d14	0.944	0.862		-8.7	20.0
Benzo(a)anthracene	1.473	1.428		-3.1	20.0
Chrysene	1.589	1.647		3.7	20.0
Benzo(b)fluoranthene	1.682	1.614		-4.0	20.0
Benzo(k)fluoranthene	1.691	1.621		-4.1	20.0
Benzo(a)pyrene	1.383	1.364		-1.4	20.0
Indeno(1,2,3-cd)pyrene	1.634	1.641		0.4	20.0
Dibenzo(a,h)anthracene	1.286	1.237		-3.8	20.0
Benzo(g,h,i)perylene	1.427	1.434		0.5	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050825\
 Data File : BN036972.D
 Acq On : 08 May 2025 14:28
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: May 08 15:00:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

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

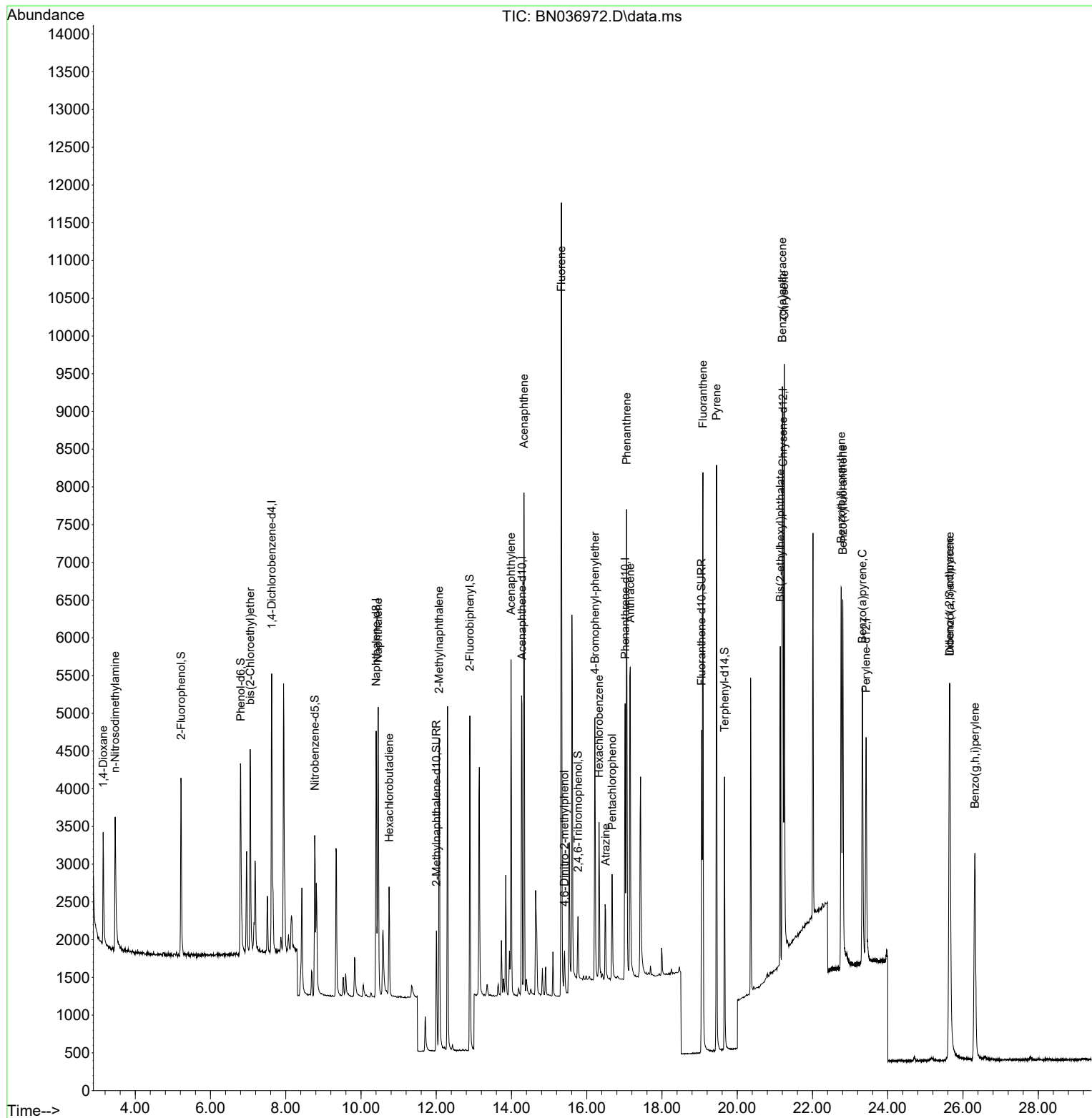
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.626	152	1755	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	4397	0.400	ng	#-0.01
13) Acenaphthene-d10	14.277	164	2406	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	4760	0.400	ng	# 0.00
29) Chrysene-d12	21.215	240	4148	0.400	ng	# 0.00
35) Perylene-d12	23.424	264	3956	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	1811	0.403	ng	0.00
5) Phenol-d6	6.802	99	2238	0.405	ng	0.00
8) Nitrobenzene-d5	8.771	82	1831	0.398	ng	-0.01
11) 2-Methylnaphthalene-d10	12.006	152	2365	0.385	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	409	0.381	ng	0.00
15) 2-Fluorobiphenyl	12.894	172	4719	0.406	ng	0.00
27) Fluoranthene-d10	19.054	212	4991	0.404	ng	0.00
31) Terphenyl-d14	19.663	244	3576	0.365	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.148	88	894	0.409	ng	90
3) n-Nitrosodimethylamine	3.466	42	1815	0.428	ng	# 94
6) bis(2-Chloroethyl)ether	7.055	93	1955	0.382	ng	98
9) Naphthalene	10.458	128	5069	0.396	ng	99
10) Hexachlorobutadiene	10.746	225	1085	0.392	ng	# 98
12) 2-Methylnaphthalene	12.077	142	3196	0.386	ng	98
16) Acenaphthylene	13.989	152	4531	0.385	ng	100
17) Acenaphthene	14.331	154	3025	0.392	ng	100
18) Fluorene	15.325	166	3969	0.393	ng	99
20) 4,6-Dinitro-2-methylph...	15.411	198	466	0.370	ng	# 78
21) 4-Bromophenyl-phenylether	16.214	248	1207	0.380	ng	# 64
22) Hexachlorobenzene	16.326	284	1332	0.383	ng	96
23) Atrazine	16.500	200	1005	0.392	ng	97
24) Pentachlorophenol	16.674	266	700	0.375	ng	97
25) Phenanthrene	17.058	178	6135	0.390	ng	100
26) Anthracene	17.158	178	5413	0.381	ng	100
28) Fluoranthene	19.087	202	7099	0.403	ng	99
30) Pyrene	19.449	202	7087	0.355	ng	99
32) Benzo(a)anthracene	21.198	228	5923	0.388	ng	98
33) Chrysene	21.251	228	6833	0.415	ng	99
34) Bis(2-ethylhexyl)phtha...	21.144	149	3730	0.429	ng	99
36) Indeno(1,2,3-cd)pyrene	25.637	276	6491	0.402	ng	98
37) Benzo(b)fluoranthene	22.760	252	6386	0.384	ng	99
38) Benzo(k)fluoranthene	22.804	252	6411	0.383	ng	97
39) Benzo(a)pyrene	23.328	252	5394	0.394	ng	97
40) Dibenzo(a,h)anthracene	25.652	278	4894	0.385	ng	99
41) Benzo(g,h,i)perylene	26.316	276	5674	0.402	ng	99

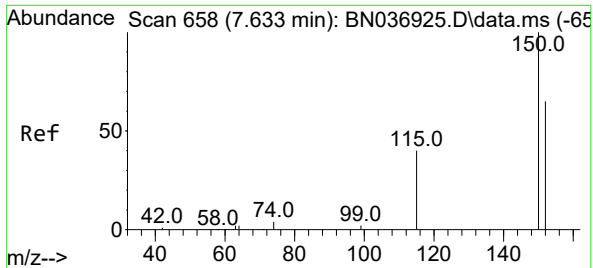
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050825\
Data File : BN036972.D
Acq On : 08 May 2025 14:28
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: May 08 15:00:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

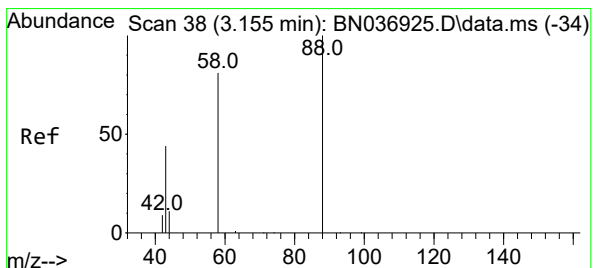
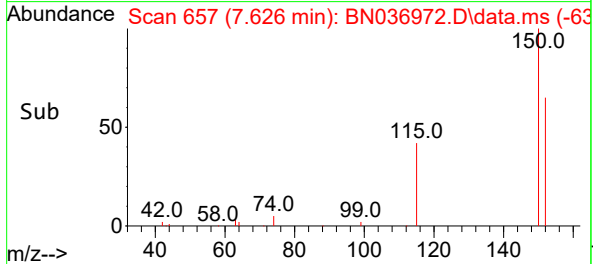
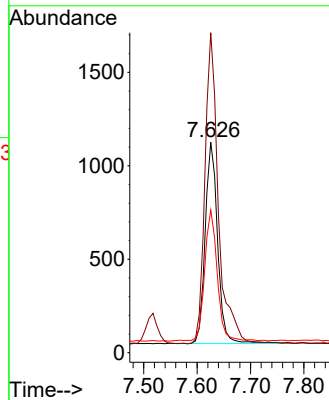
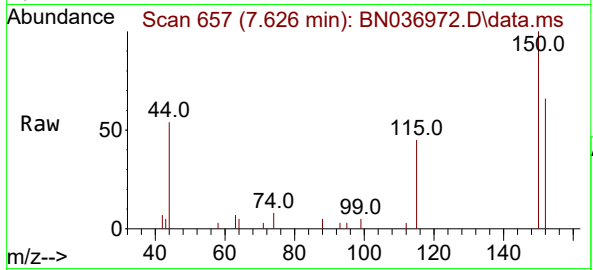




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.626 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

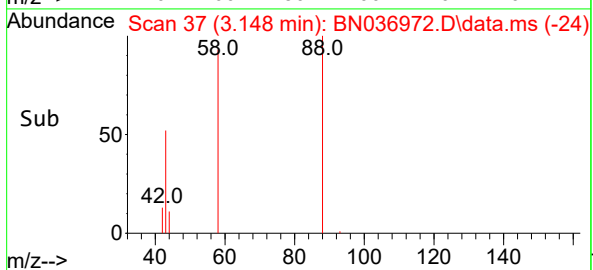
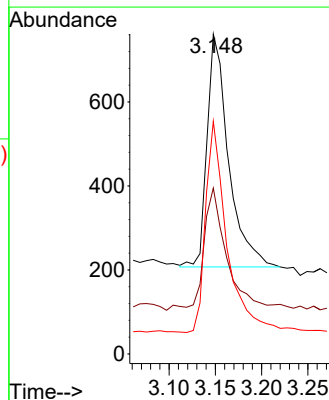
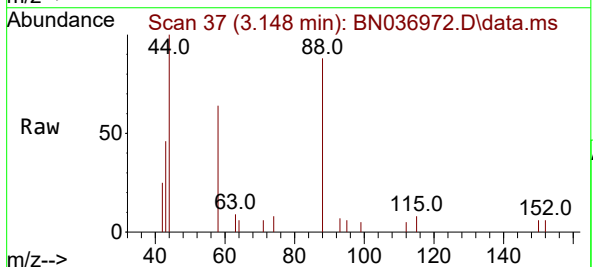
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 1755
Ion Ratio Lower Upper
152 100
150 151.9 121.1 181.7
115 67.8 51.8 77.6

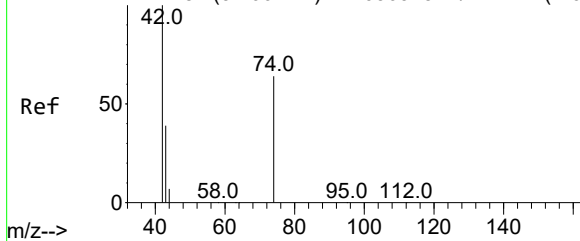


#2
1,4-Dioxane
Concen: 0.409 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion: 88 Resp: 894
Ion Ratio Lower Upper
88 100
43 56.4 37.9 56.9
58 89.9 65.8 98.6



Abundance Scan 81 (3.466 min): BN036925.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.428 ng

RT: 3.466 min Scan# 81

Delta R.T. -0.000 min

Lab File: BN036972.D

Acq: 08 May 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 1815

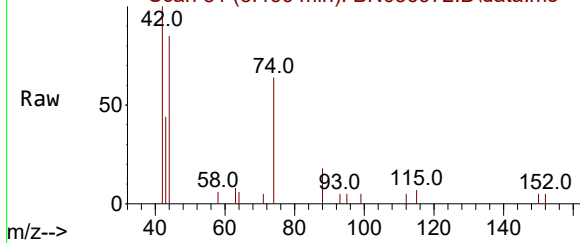
Ion Ratio Lower Upper

42 100

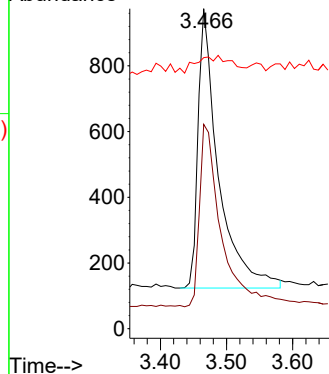
74 70.0 59.9 89.9

44 5.5 7.5 11.3#

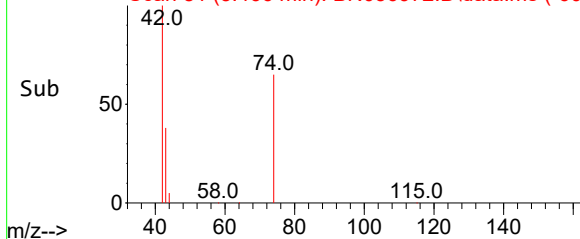
Abundance Scan 81 (3.466 min): BN036972.D\data.ms



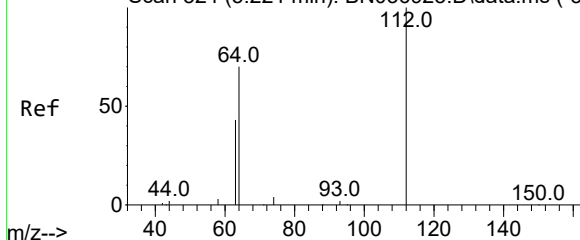
Abundance



Abundance Scan 81 (3.466 min): BN036972.D\data.ms (-60)



Abundance Scan 324 (5.221 min): BN036925.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.403 ng

RT: 5.221 min Scan# 324

Delta R.T. -0.000 min

Lab File: BN036972.D

Acq: 08 May 2025 14:28

Tgt Ion: 112 Resp: 1811

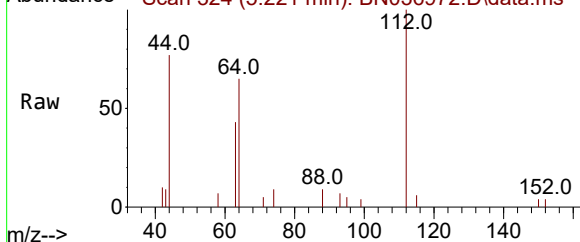
Ion Ratio Lower Upper

112 100

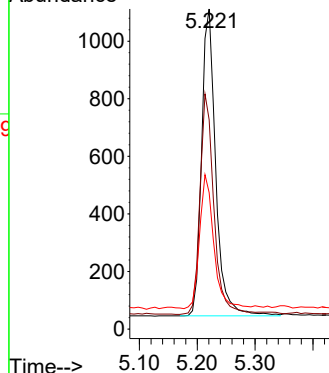
64 70.8 55.7 83.5

63 44.0 33.9 50.9

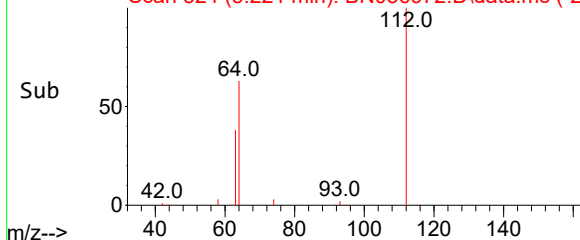
Abundance Scan 324 (5.221 min): BN036972.D\data.ms

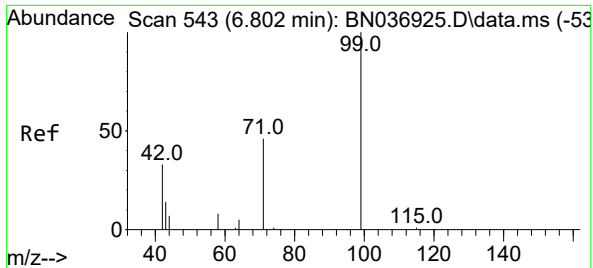


Abundance



Abundance Scan 324 (5.221 min): BN036972.D\data.ms (-29)

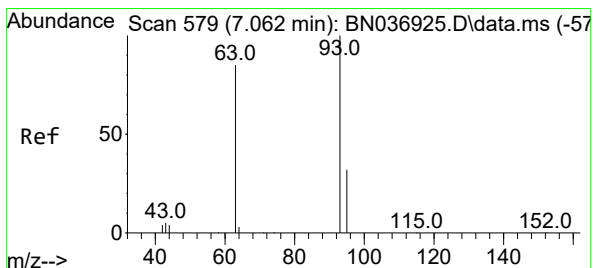
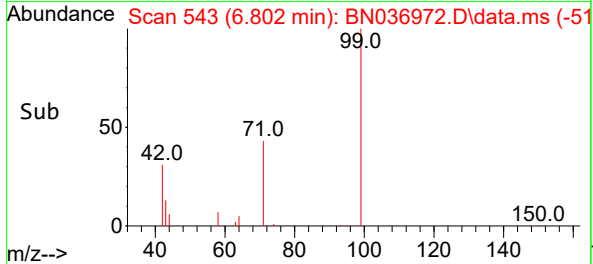
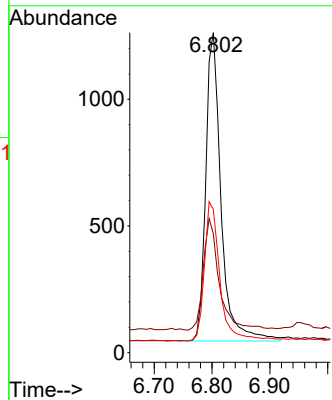
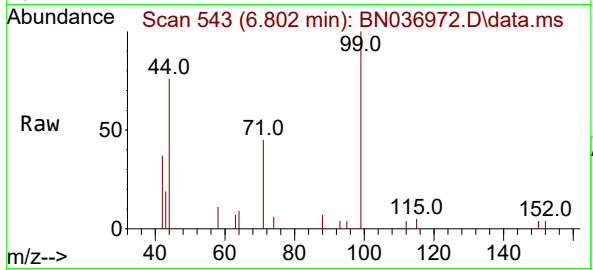




#5
Phenol-d6
Concen: 0.405 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

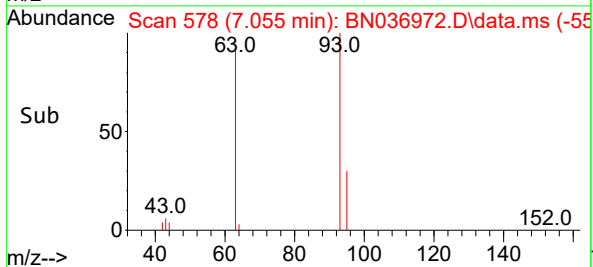
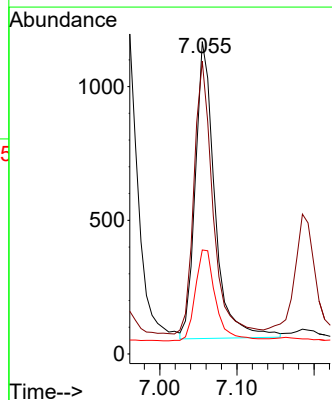
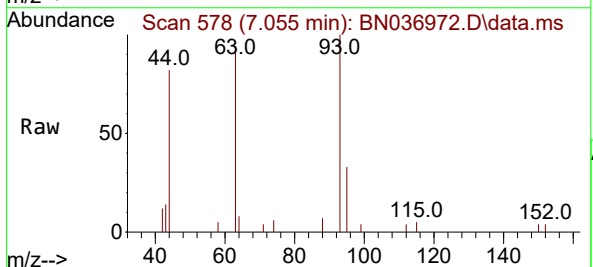
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

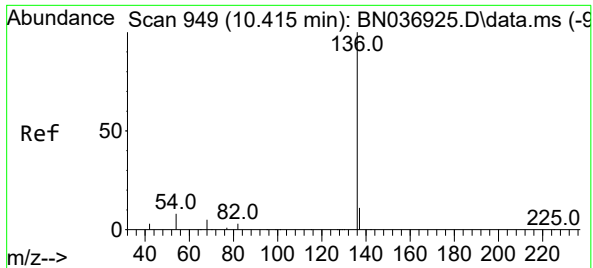
Tgt Ion: 99 Resp: 2238
Ion Ratio Lower Upper
99 100
42 38.1 29.6 44.4
71 46.5 36.0 54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.382 ng
RT: 7.055 min Scan# 578
Delta R.T. -0.007 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion: 93 Resp: 1955
Ion Ratio Lower Upper
93 100
63 88.4 69.0 103.6
95 32.1 25.4 38.0

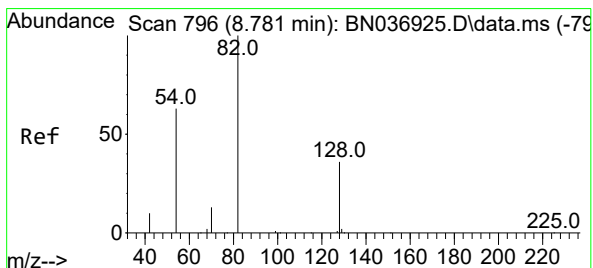
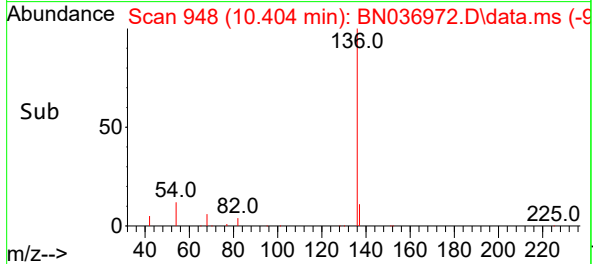
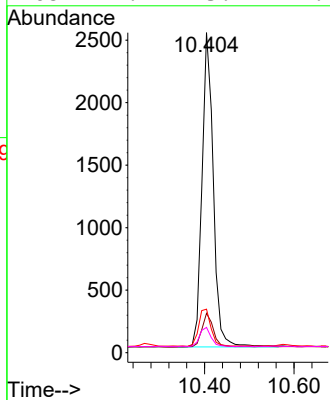
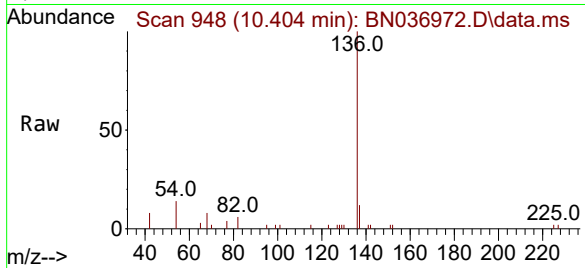




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

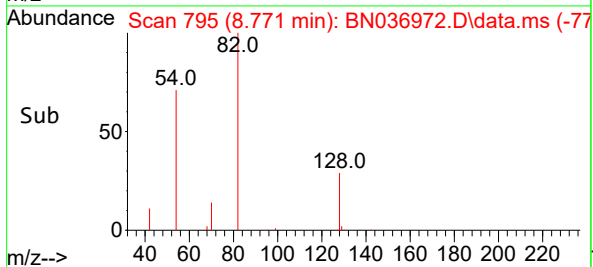
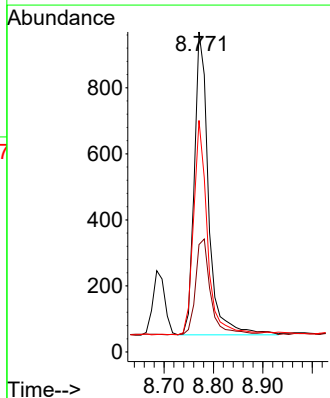
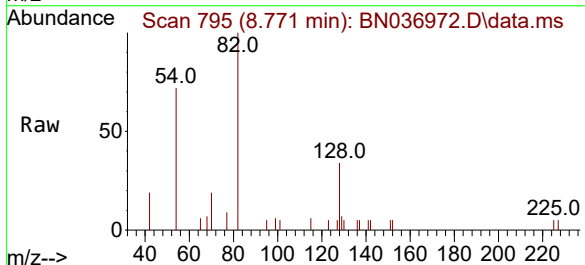
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

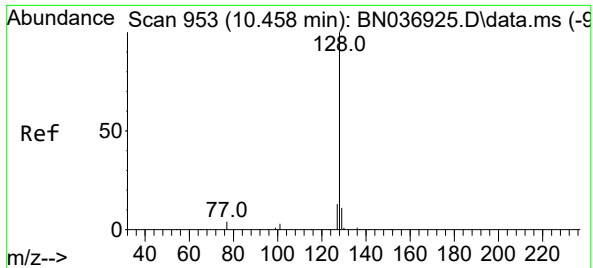
Tgt Ion:	136	Resp:	4397
Ion	Ratio	Lower	Upper
136	100		
137	12.3	9.7	14.5
54	13.6	8.0	12.0#
68	7.9	5.1	7.7#



#8
Nitrobenzene-d5
Concen: 0.398 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.011 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion:	82	Resp:	1831
Ion	Ratio	Lower	Upper
82	100		
128	33.5	30.7	46.1
54	72.3	52.1	78.1

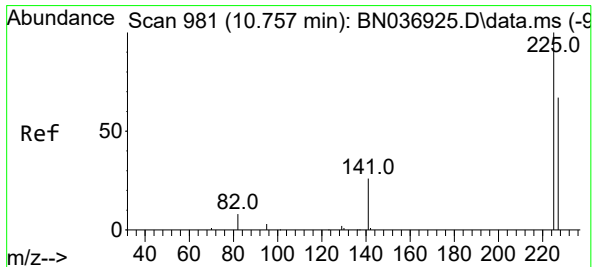
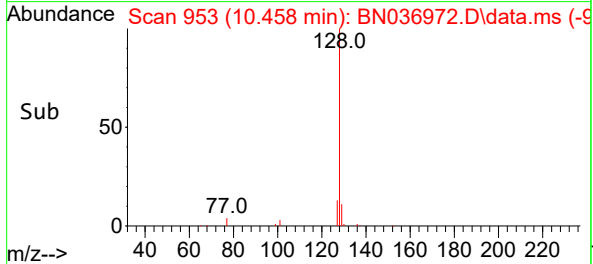
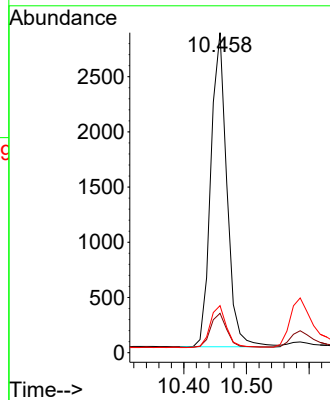
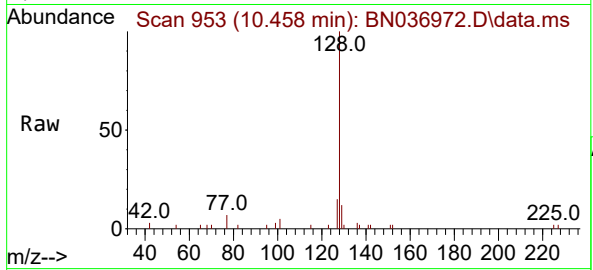




#9
Naphthalene
Concen: 0.396 ng
RT: 10.458 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

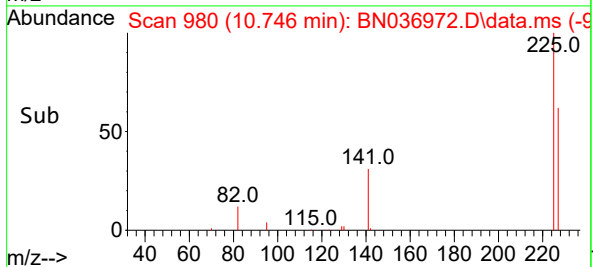
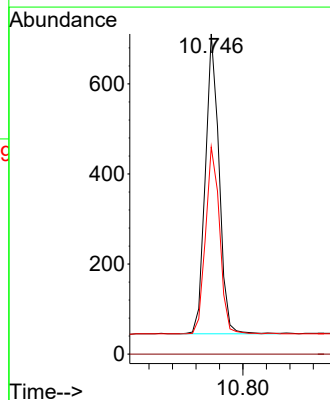
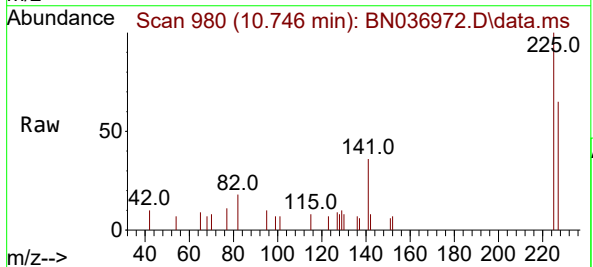
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

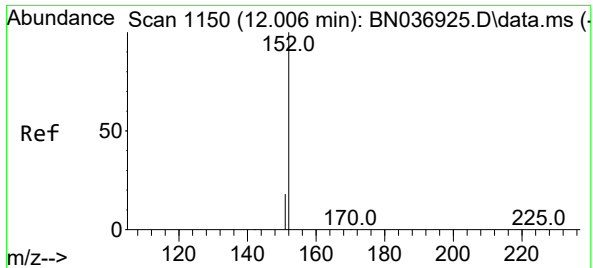
Tgt Ion:	128	Resp:	5069
Ion	Ratio	Lower	Upper
128	100		
129	12.3	9.8	14.6
127	14.7	11.4	17.2



#10
Hexachlorobutadiene
Concen: 0.392 ng
RT: 10.746 min Scan# 980
Delta R.T. -0.011 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion:	225	Resp:	1085
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	52.2	78.4

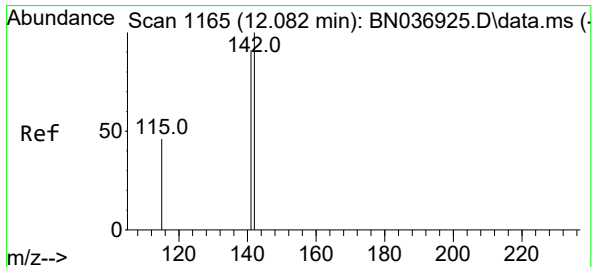
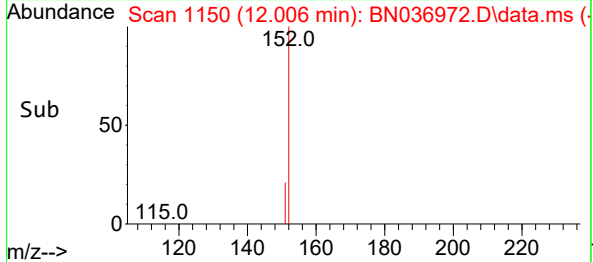
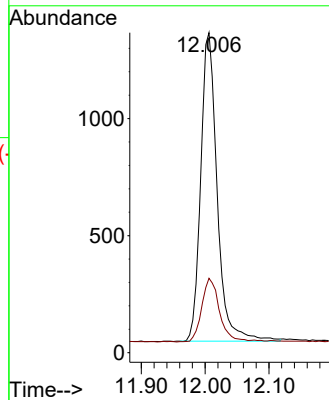
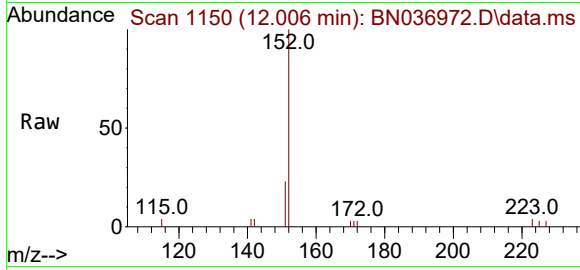




#11
2-Methylnaphthalene-d10
Concen: 0.385 ng
RT: 12.006 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

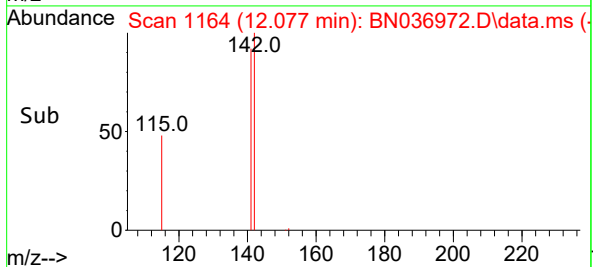
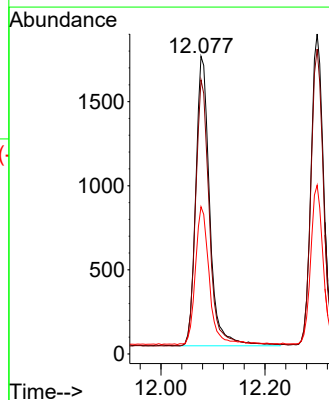
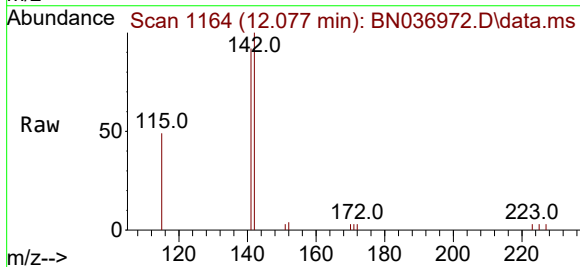
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

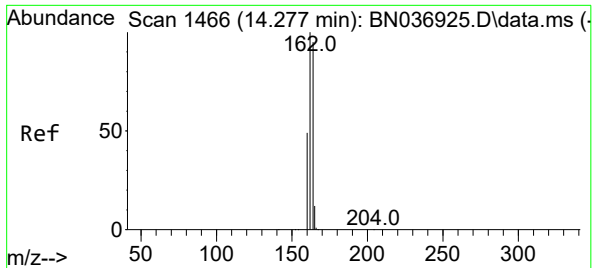
Tgt Ion:152 Resp: 2365
Ion Ratio Lower Upper
152 100
151 22.2 16.9 25.3



#12
2-Methylnaphthalene
Concen: 0.386 ng
RT: 12.077 min Scan# 1164
Delta R.T. -0.005 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion:142 Resp: 3196
Ion Ratio Lower Upper
142 100
141 92.1 72.8 109.2
115 49.5 38.2 57.4

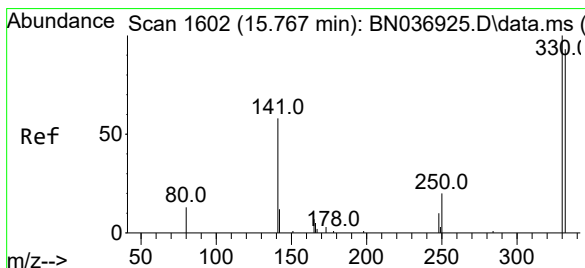
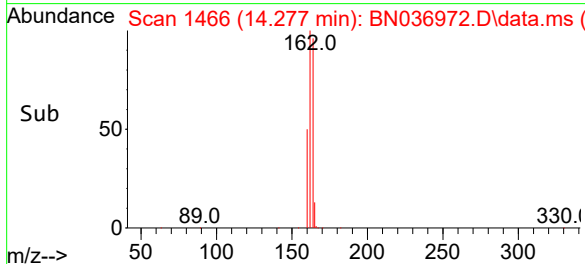
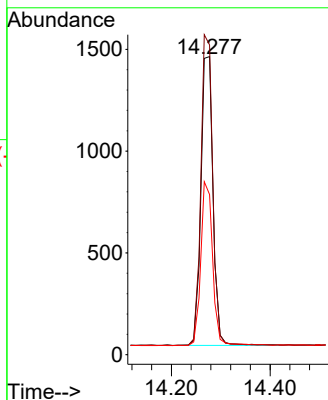
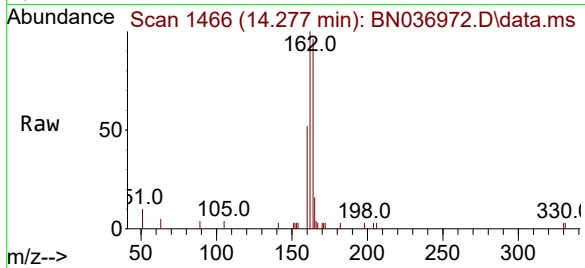




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

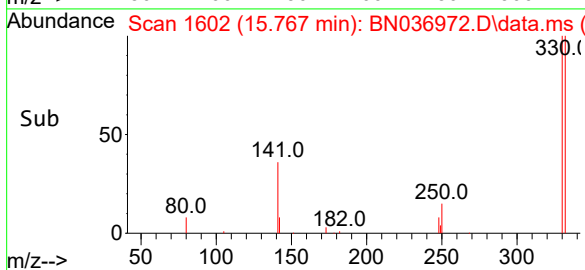
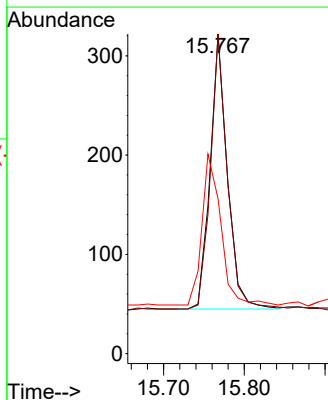
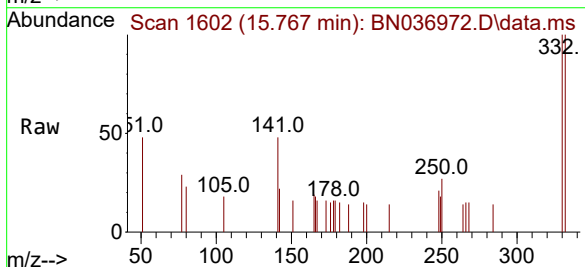
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

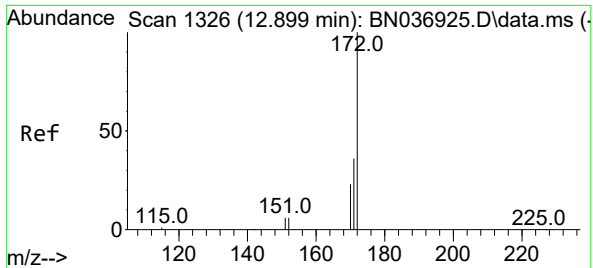
Tgt Ion	164	162	160
Resp:	2406		
Ion Ratio	100	104.0	53.8
Lower		83.8	42.0
Upper		125.8	63.0



#14
2,4,6-Tribromophenol
Concen: 0.381 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion	330	332	141
Resp:	409		
Ion Ratio	100	98.8	60.1
Lower		76.3	45.4
Upper		114.5	68.2

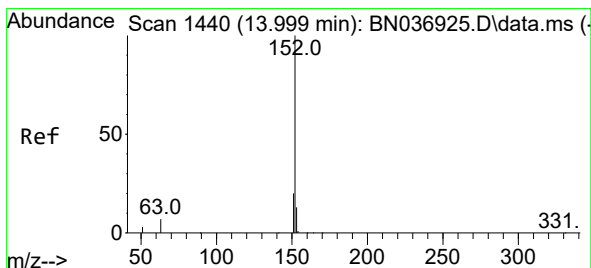
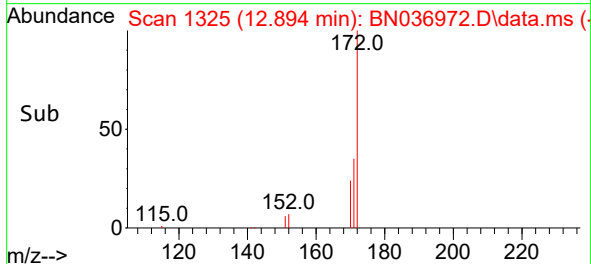
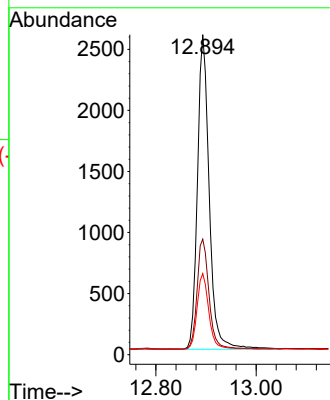
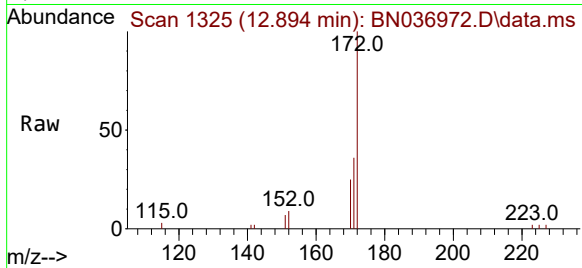




#15
2-Fluorobiphenyl
Concen: 0.406 ng
RT: 12.894 min Scan# 1439
Delta R.T. -0.005 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

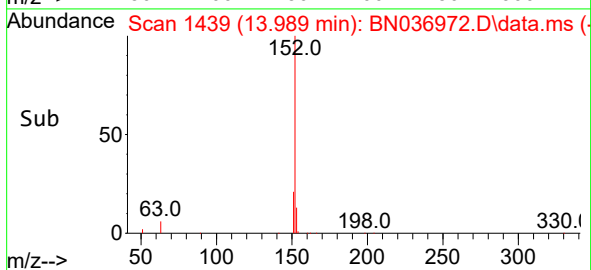
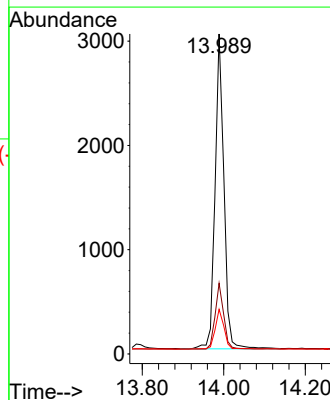
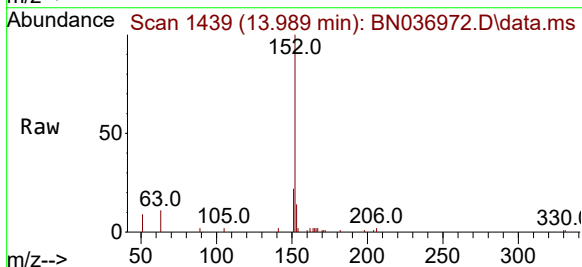
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

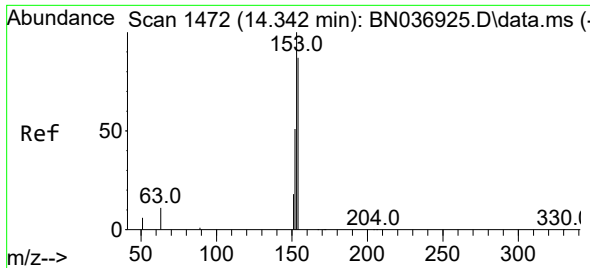
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.1	29.4	44.0
170	25.3	19.4	29.0



#16
Acenaphthylene
Concen: 0.385 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.0	24.0
153	12.8	10.2	15.2

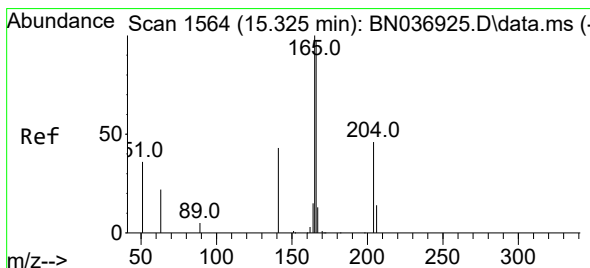
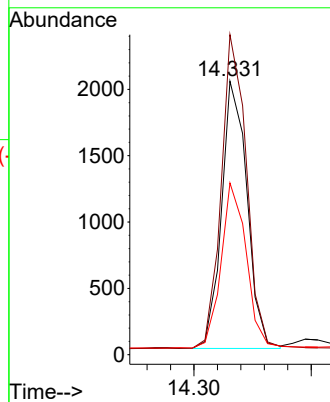
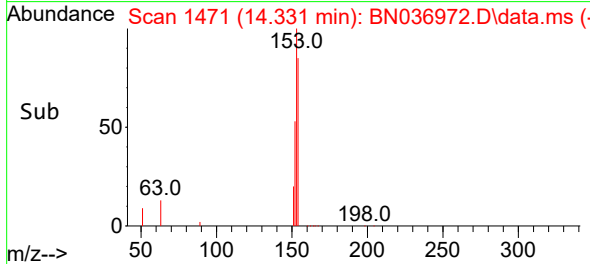
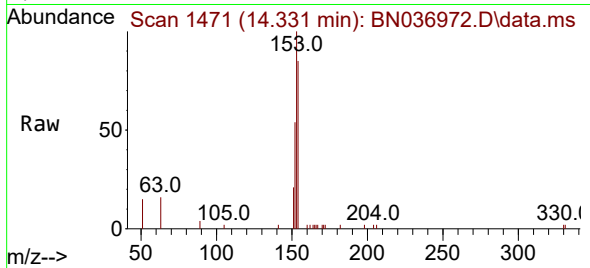




#17
Acenaphthene
Concen: 0.392 ng
RT: 14.331 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

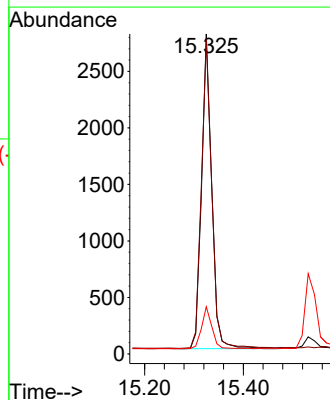
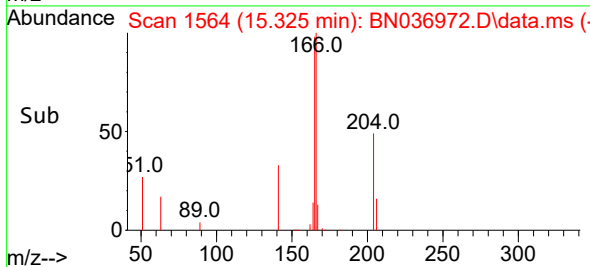
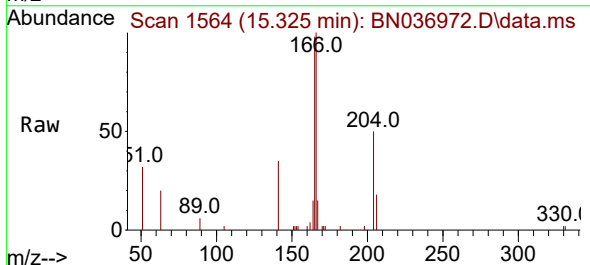
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

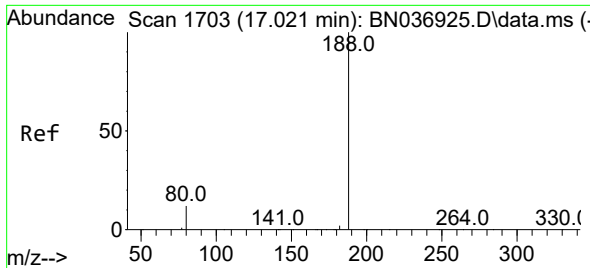
Tgt Ion:154 Resp: 3025
Ion Ratio Lower Upper
154 100
153 117.0 93.4 140.2
152 62.0 49.5 74.3



#18
Fluorene
Concen: 0.393 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion:166 Resp: 3969
Ion Ratio Lower Upper
166 100
165 100.2 80.8 121.2
167 13.7 10.8 16.2

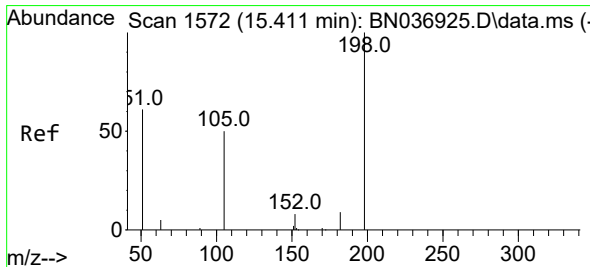
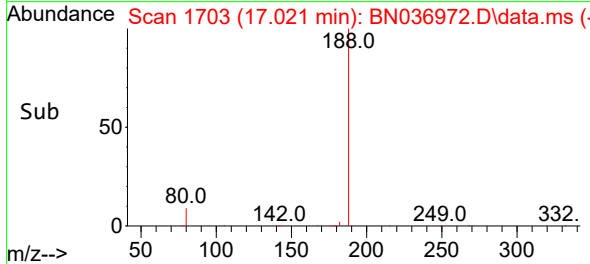
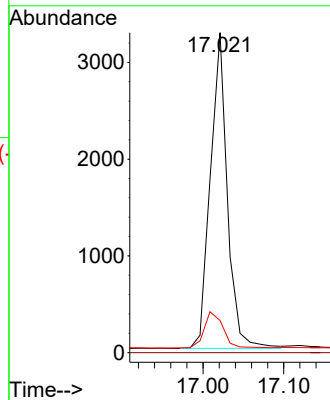
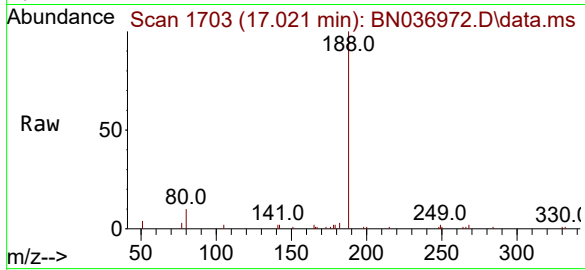




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

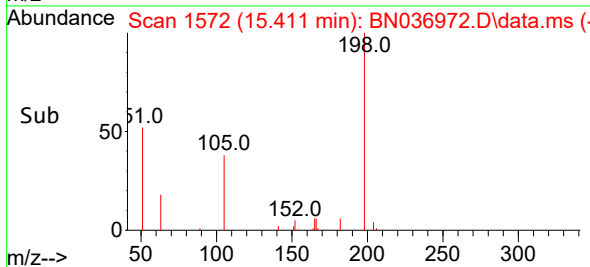
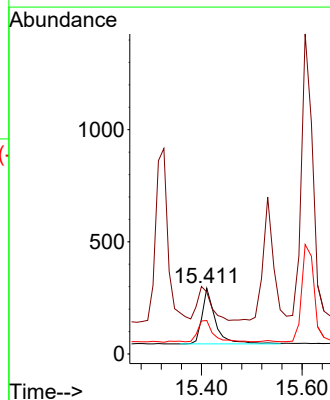
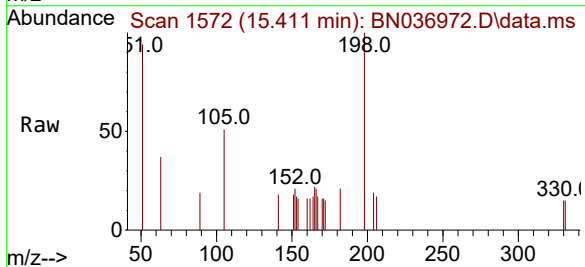
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

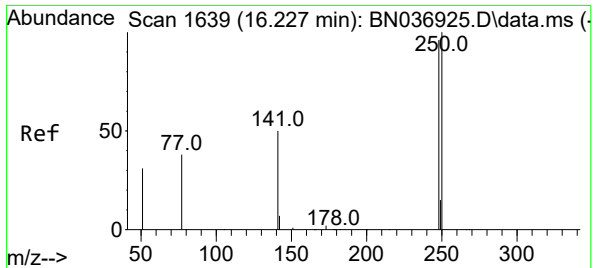
Tgt Ion:188 Resp: 4760
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 10.1 10.7 16.1#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.370 ng
RT: 15.411 min Scan# 1572
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion:198 Resp: 466
Ion Ratio Lower Upper
198 100
51 94.2 97.9 146.9#
105 50.9 50.0 75.0

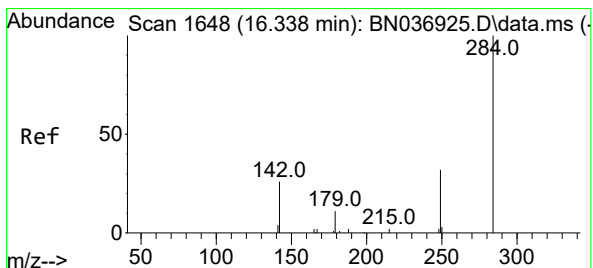
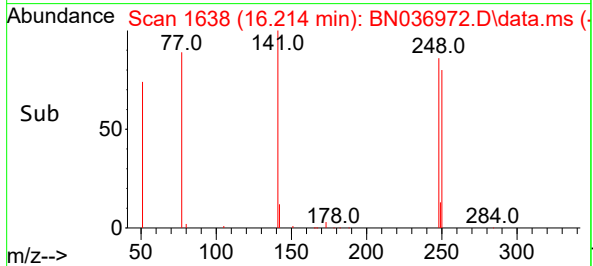
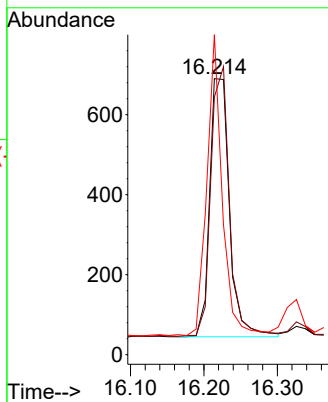
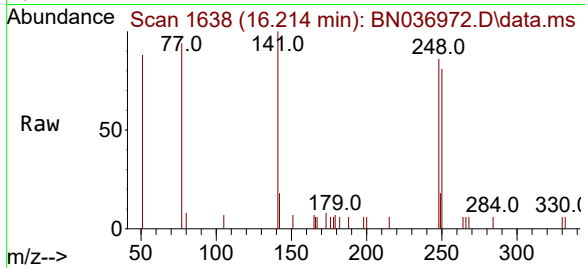




#21
4-Bromophenyl-phenylether
Concen: 0.380 ng
RT: 16.214 min Scan# 1638
Delta R.T. -0.012 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

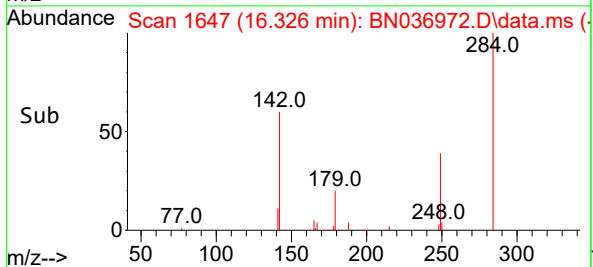
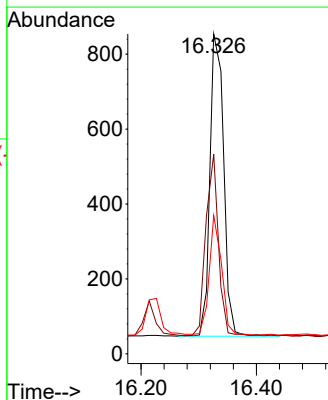
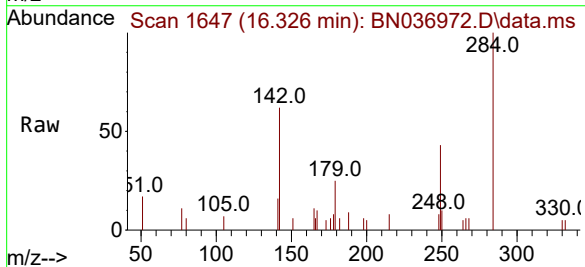
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

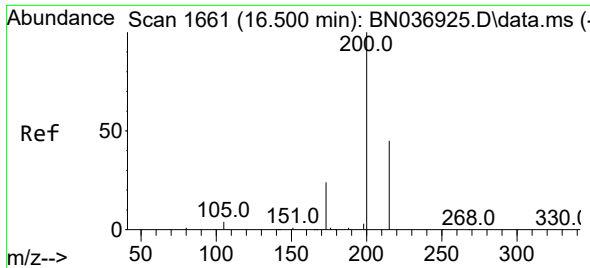
Tgt Ion:248 Resp: 1207
Ion Ratio Lower Upper
248 100
250 93.3 83.7 125.5
141 115.9 43.8 65.8#



#22
Hexachlorobenzene
Concen: 0.383 ng
RT: 16.326 min Scan# 1647
Delta R.T. -0.012 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion:284 Resp: 1332
Ion Ratio Lower Upper
284 100
142 54.9 40.0 60.0
249 35.7 28.2 42.2



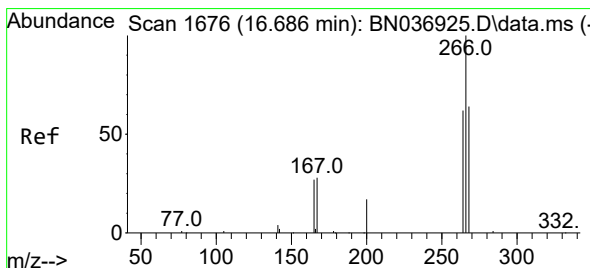
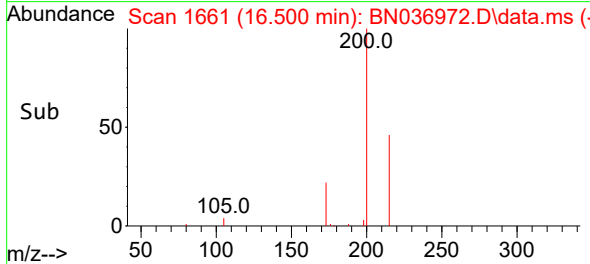
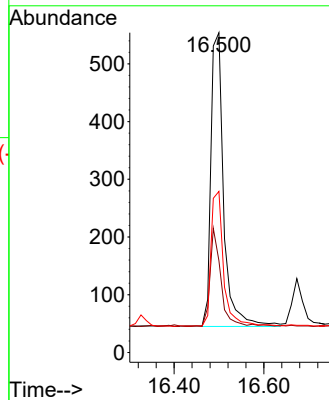
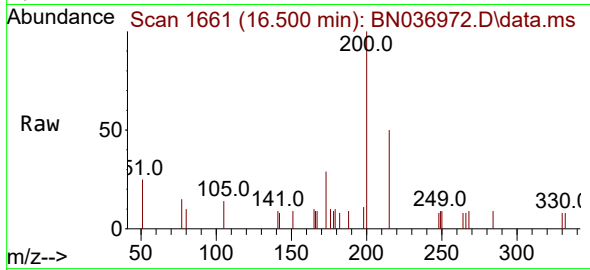


#23
Atrazine
Concen: 0.392 ng
RT: 16.500 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion	200	Resp	1005
Ion Ratio	100		
Lower	22.4		
Upper	33.6		

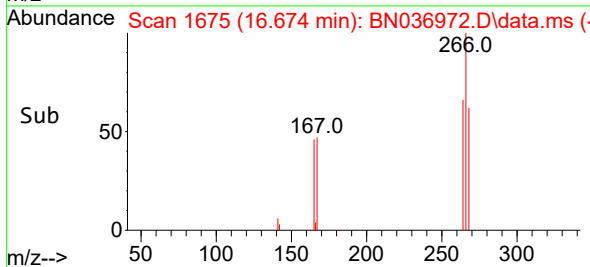
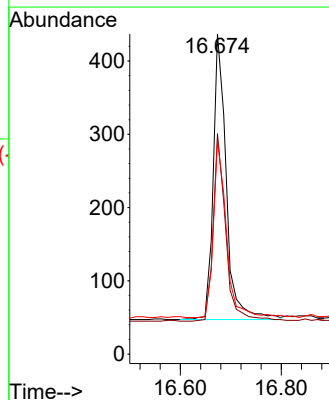
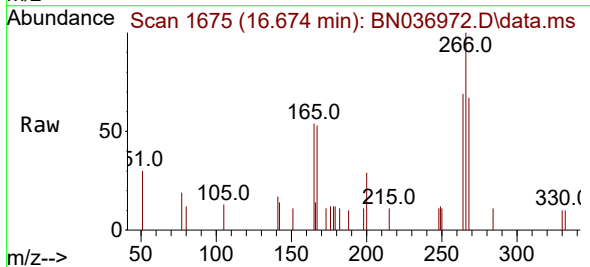
Ion	173	215
Ratio	28.7	50.4
Lower	38.6	
Upper	57.8	

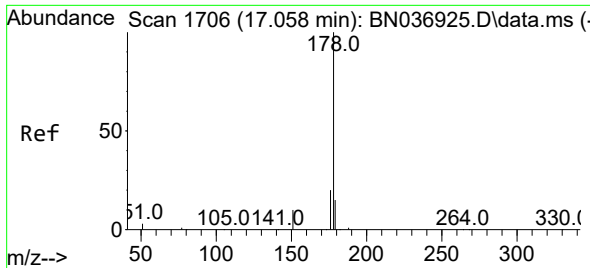


#24
Pentachlorophenol
Concen: 0.375 ng
RT: 16.674 min Scan# 1675
Delta R.T. -0.012 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion	266	Resp	700
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower	49.9		
Upper	74.9		

Ion	264	268
Ratio <td>62.6</td> <td>61.4</td>	62.6	61.4
Lower <td>52.2</td> <td></td>	52.2	
Upper <td>78.4</td> <td></td>	78.4	

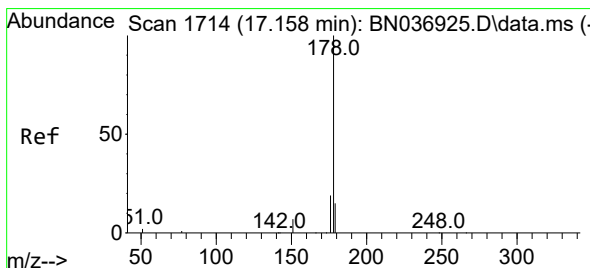
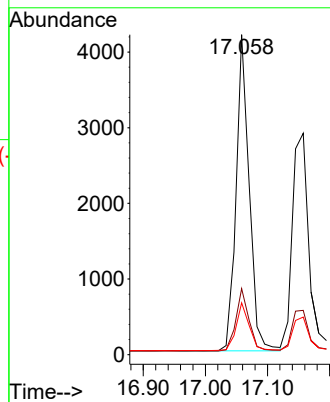
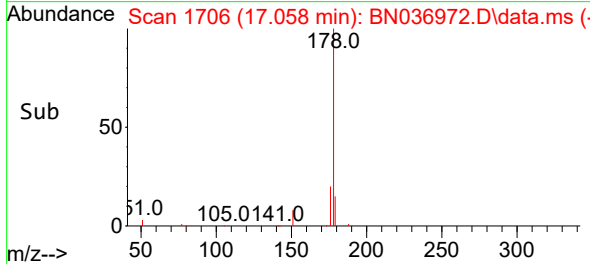
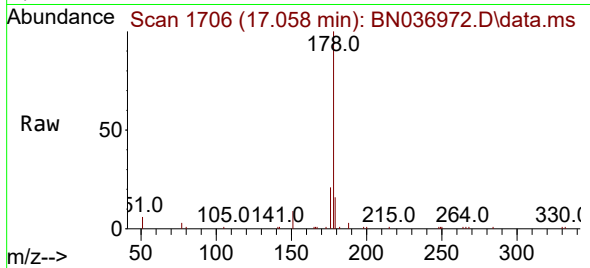




#25
Phenanthrene
Concen: 0.390 ng
RT: 17.058 min Scan# 1706
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

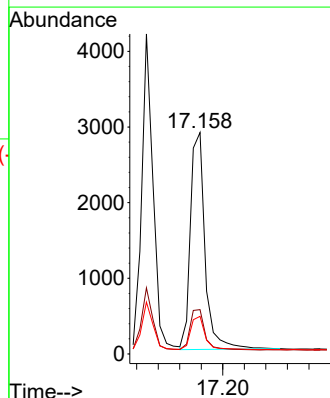
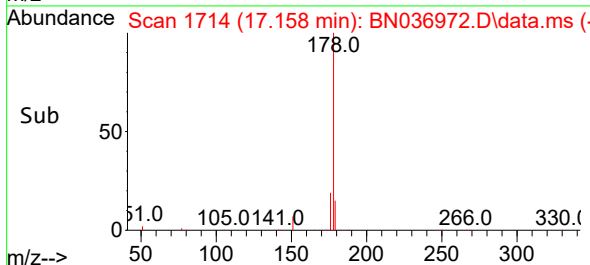
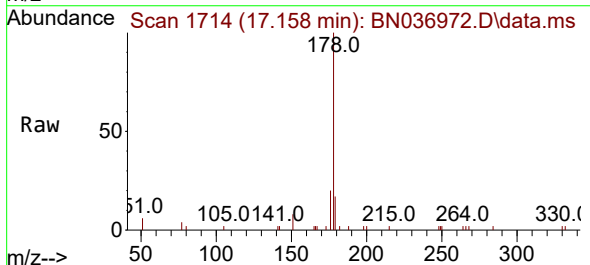
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

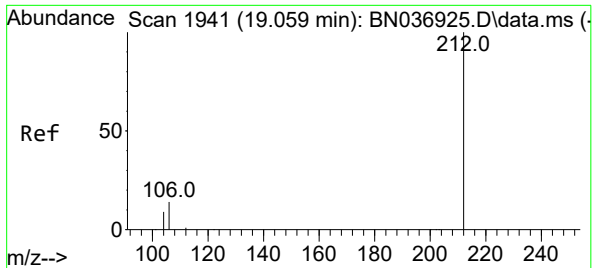
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.7	23.5
179	15.6	12.4	18.6



#26
Anthracene
Concen: 0.381 ng
RT: 17.158 min Scan# 1714
Delta R.T. -0.000 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.4	12.1	18.1

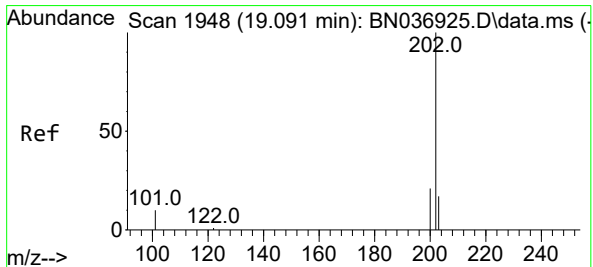
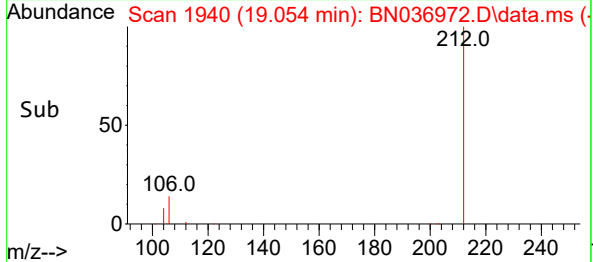
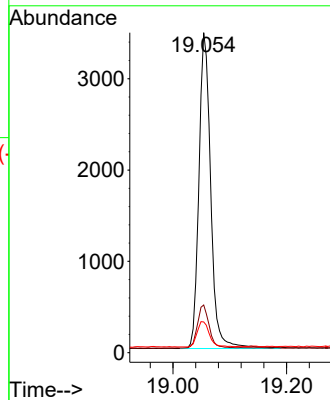
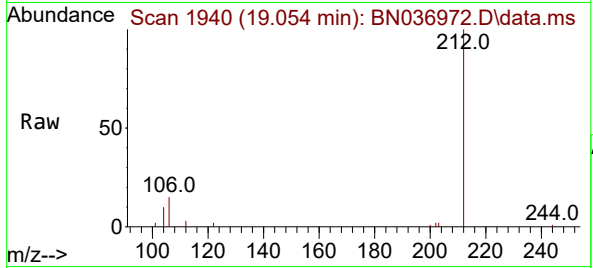




#27
Fluoranthene-d10
Concen: 0.404 ng
RT: 19.054 min Scan# 1940
Delta R.T. -0.005 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

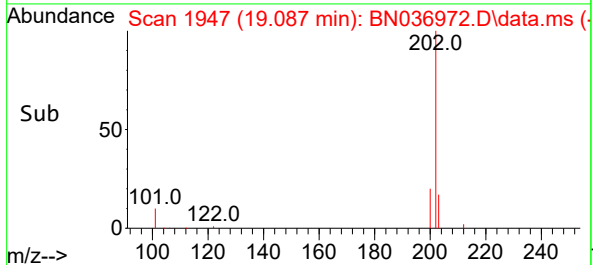
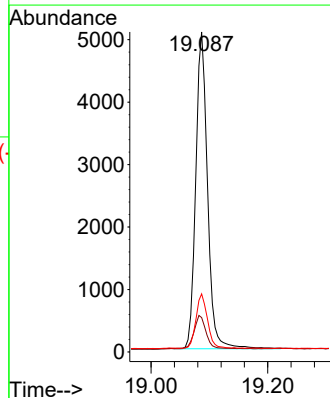
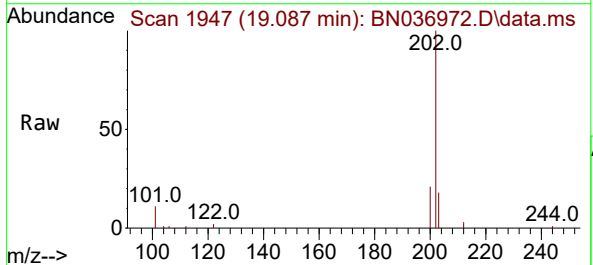
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

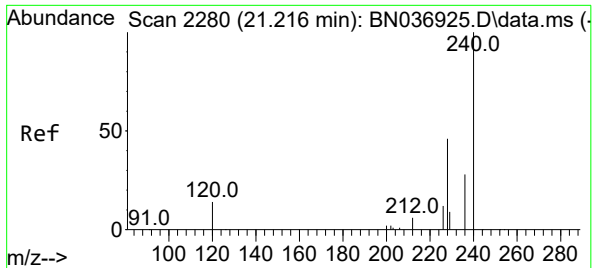
Tgt Ion:212 Resp: 4991
Ion Ratio Lower Upper
212 100
106 13.4 11.6 17.4
104 8.3 7.0 10.4



#28
Fluoranthene
Concen: 0.403 ng
RT: 19.087 min Scan# 1947
Delta R.T. -0.005 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion:202 Resp: 7099
Ion Ratio Lower Upper
202 100
101 10.8 8.5 12.7
203 16.8 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036972.D

Acq: 08 May 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

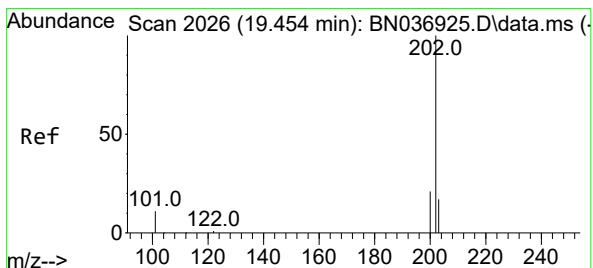
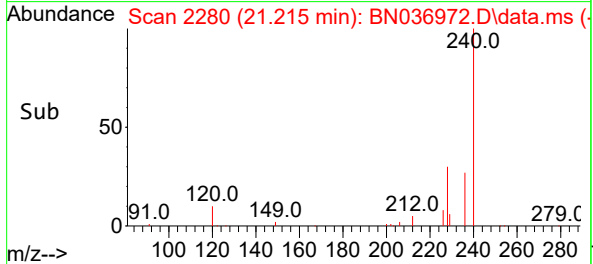
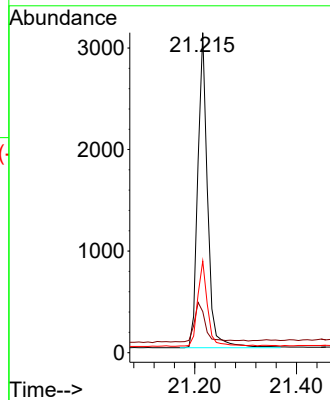
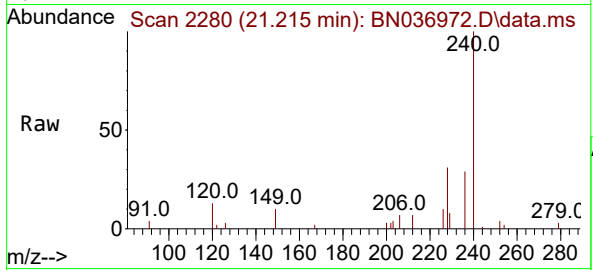
Tgt Ion:240 Resp: 4148

Ion Ratio Lower Upper

240 100

120 12.9 14.1 21.1#

236 28.6 23.8 35.8



#30

Pyrene

Concen: 0.355 ng

RT: 19.449 min Scan# 2025

Delta R.T. -0.005 min

Lab File: BN036972.D

Acq: 08 May 2025 14:28

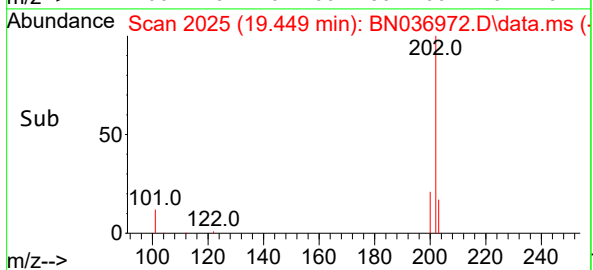
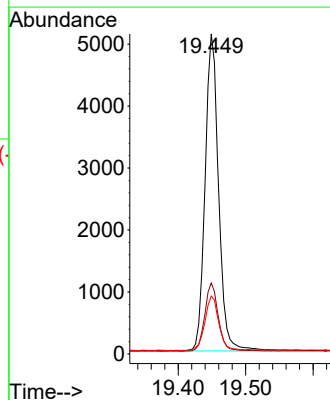
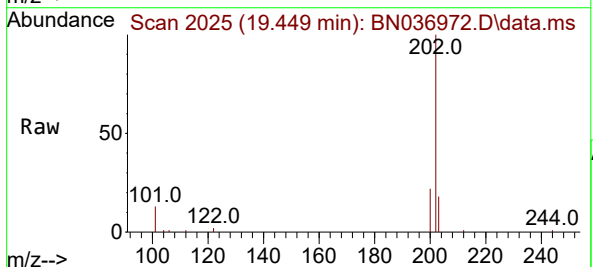
Tgt Ion:202 Resp: 7087

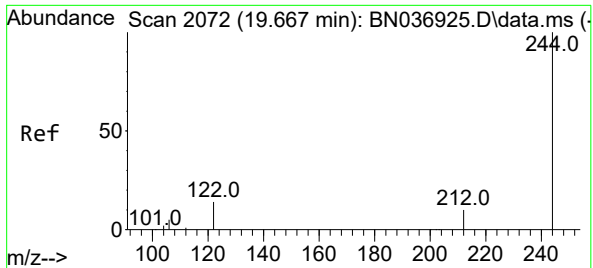
Ion Ratio Lower Upper

202 100

200 21.5 17.0 25.6

203 18.0 14.0 21.0

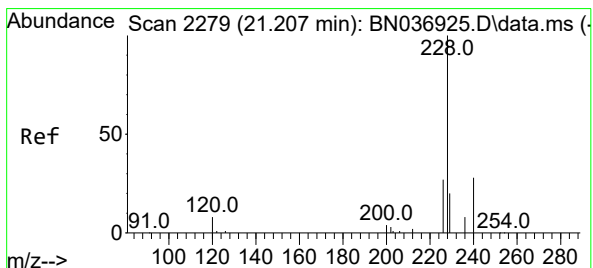
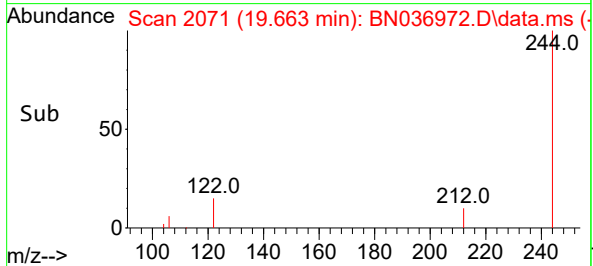
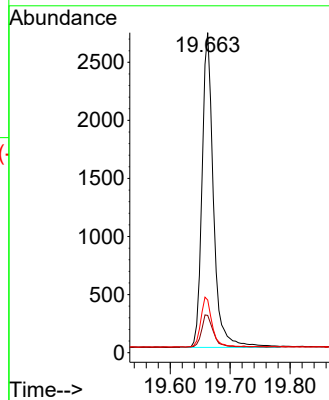
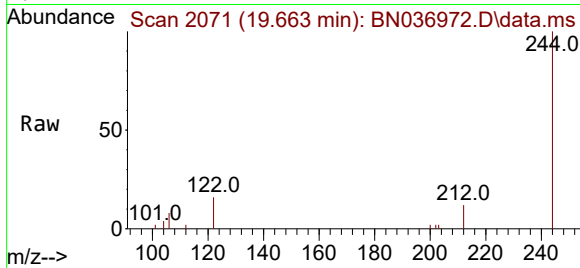




#31
Terphenyl-d14
Concen: 0.365 ng
RT: 19.663 min Scan# 2071
Delta R.T. -0.005 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

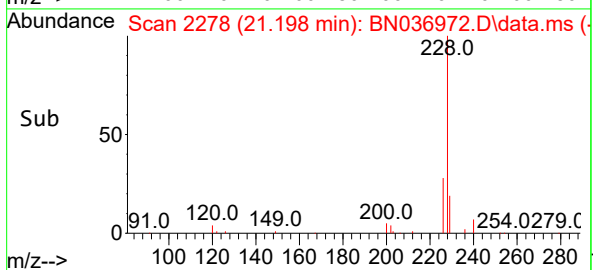
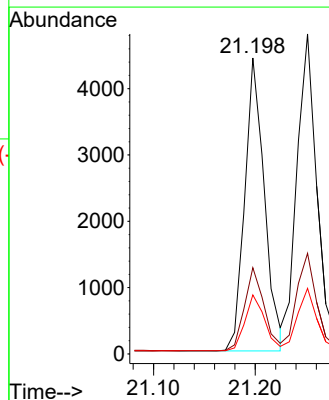
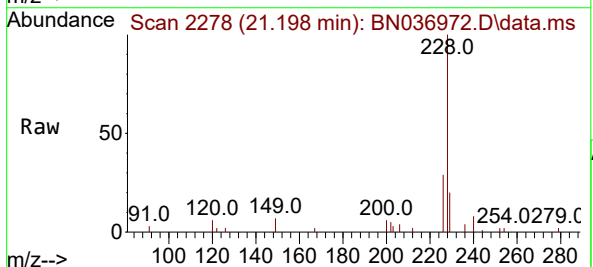
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

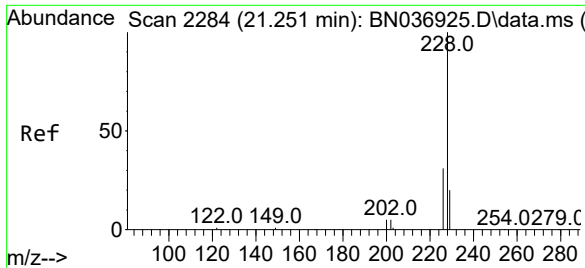
Tgt Ion:244 Resp: 3576
Ion Ratio Lower Upper
244 100
212 11.7 9.6 14.4
122 16.4 12.7 19.1



#32
Benzo(a)anthracene
Concen: 0.388 ng
RT: 21.198 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion:228 Resp: 5923
Ion Ratio Lower Upper
228 100
226 29.1 22.2 33.4
229 19.9 16.4 24.6





#33

Chrysene

Concen: 0.415 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036972.D

Acq: 08 May 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

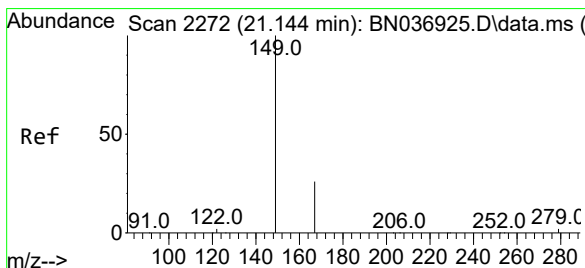
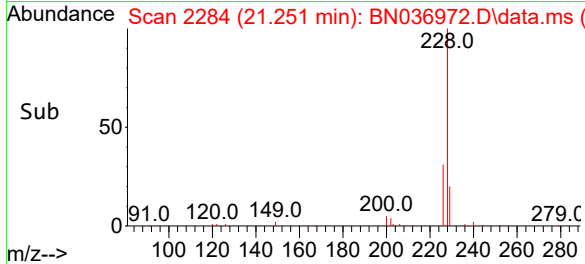
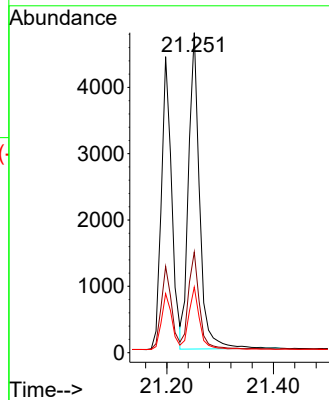
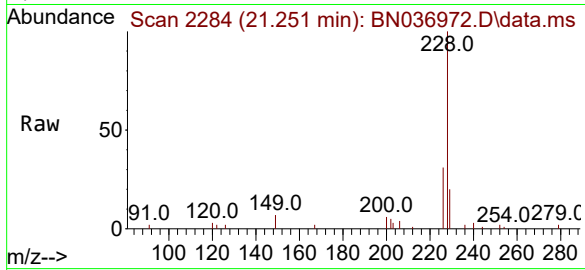
Tgt Ion:228 Resp: 6833

Ion Ratio Lower Upper

228 100

226 31.4 25.5 38.3

229 20.5 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.429 ng

RT: 21.144 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN036972.D

Acq: 08 May 2025 14:28

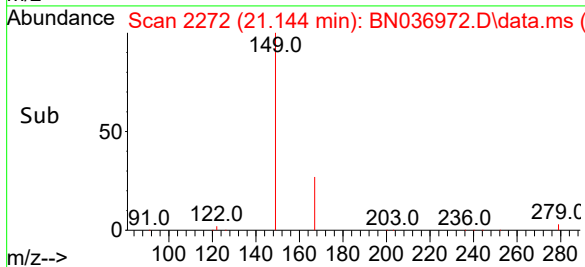
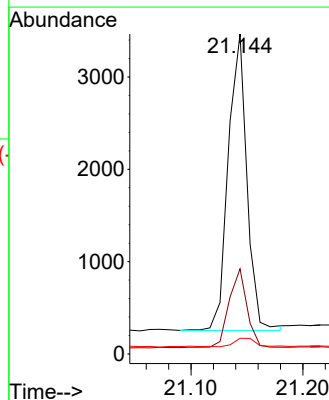
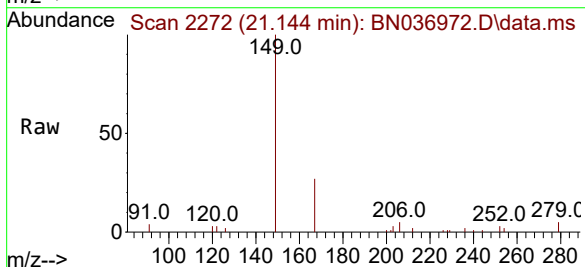
Tgt Ion:149 Resp: 3730

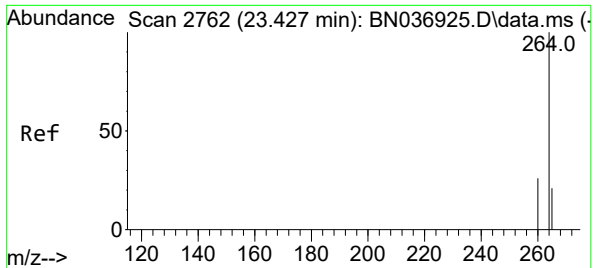
Ion Ratio Lower Upper

149 100

167 25.5 21.0 31.6

279 3.3 2.7 4.1

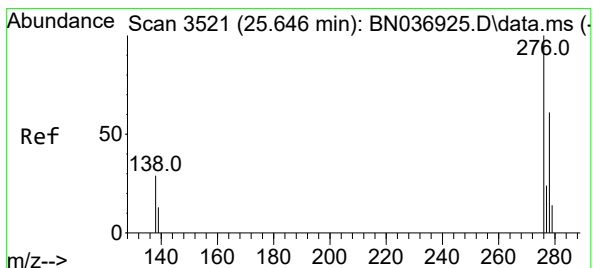
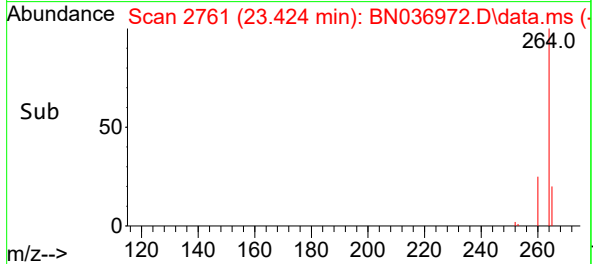
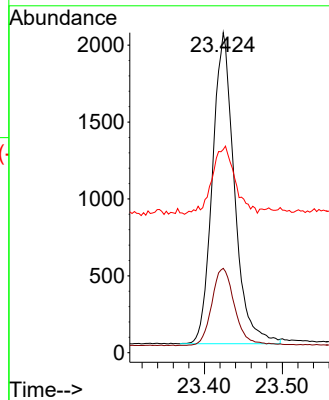
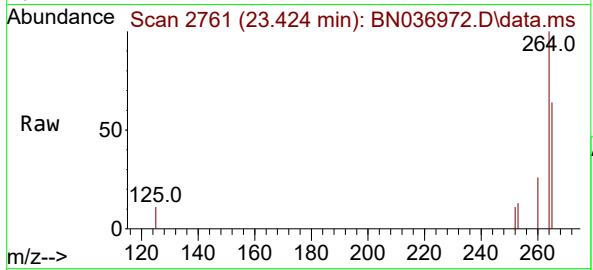




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.424 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

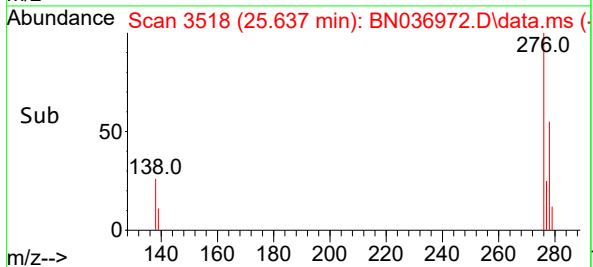
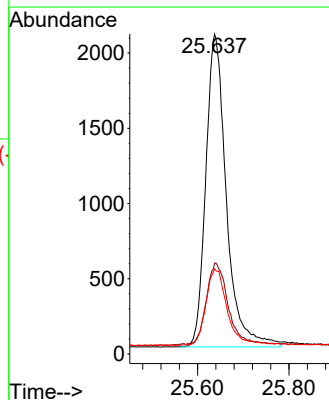
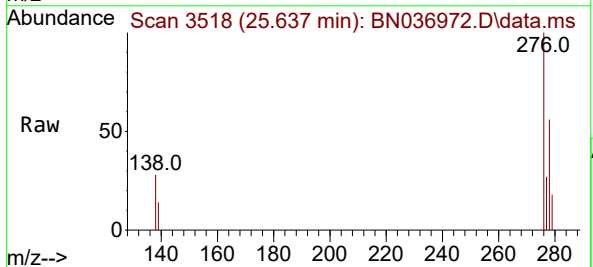
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

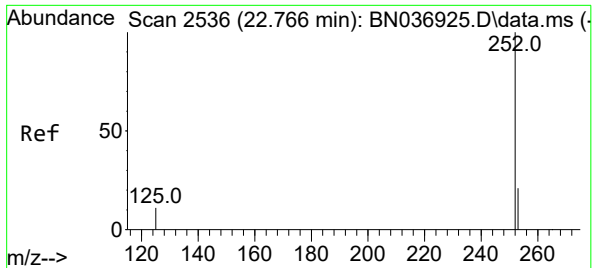
Tgt Ion:264 Resp: 3956
Ion Ratio Lower Upper
264 100
260 26.4 22.2 33.2
265 63.5 65.8 98.6#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.402 ng
RT: 25.637 min Scan# 3518
Delta R.T. -0.009 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion:276 Resp: 6491
Ion Ratio Lower Upper
276 100
138 26.7 23.0 34.6
277 24.7 20.0 30.0

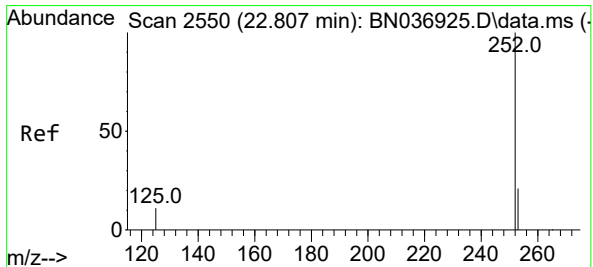
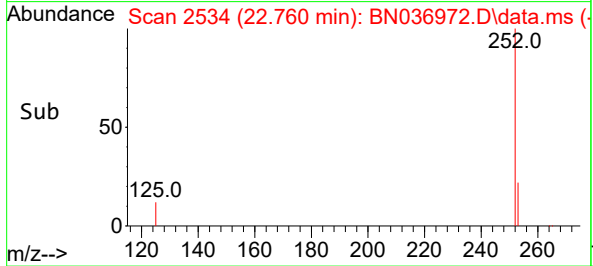
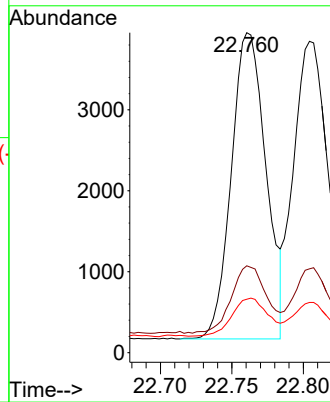
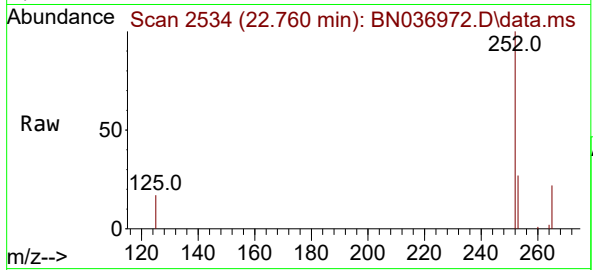




#37
Benzo(b)fluoranthene
Concen: 0.384 ng
RT: 22.760 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

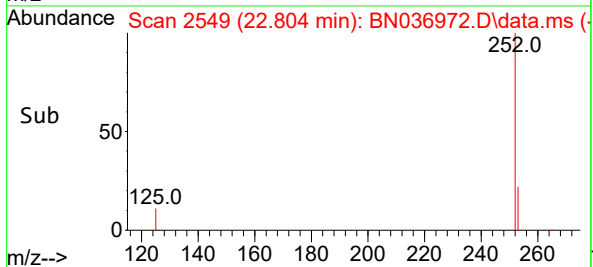
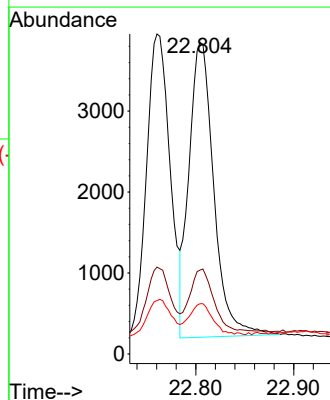
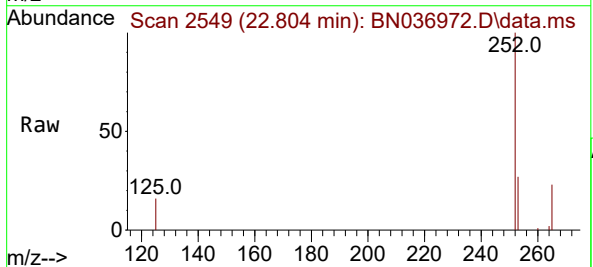
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

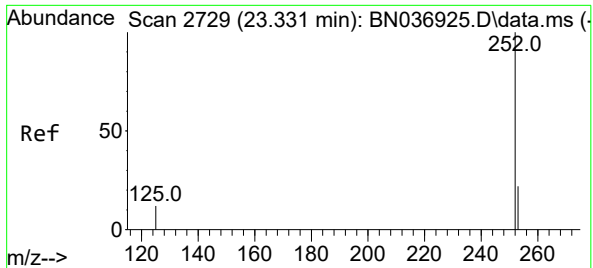
Tgt Ion:252 Resp: 6386
Ion Ratio Lower Upper
252 100
253 27.1 22.1 33.1
125 16.7 14.2 21.2



#38
Benzo(k)fluoranthene
Concen: 0.383 ng
RT: 22.804 min Scan# 2549
Delta R.T. -0.003 min
Lab File: BN036972.D
Acq: 08 May 2025 14:28

Tgt Ion:252 Resp: 6411
Ion Ratio Lower Upper
252 100
253 26.9 22.8 34.2
125 16.1 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.394 ng

RT: 23.328 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036972.D

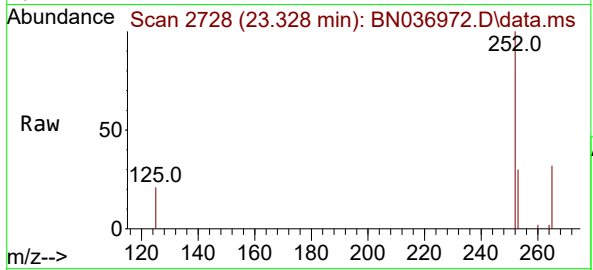
Acq: 08 May 2025 14:28

Instrument :

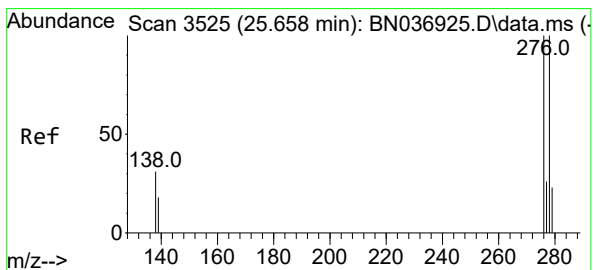
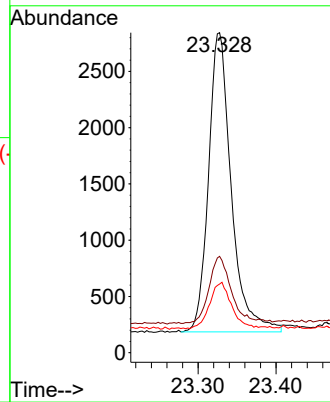
BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:	252	Resp:	5394
Ion Ratio	Lower	Upper	
252	100		
253	30.1	25.9	38.9
125	21.4	17.4	26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.385 ng

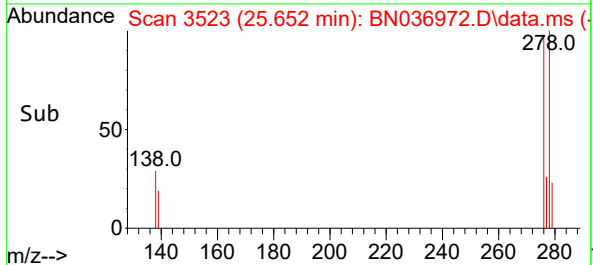
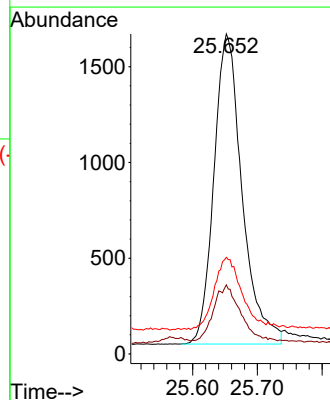
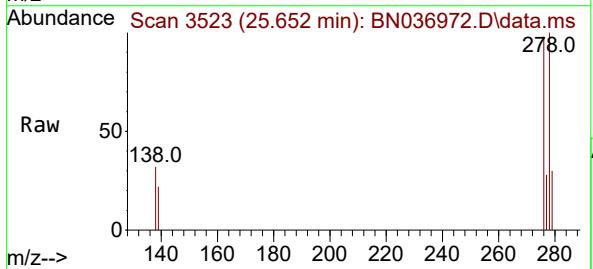
RT: 25.652 min Scan# 3523

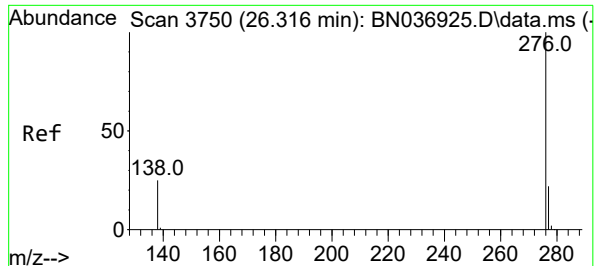
Delta R.T. -0.006 min

Lab File: BN036972.D

Acq: 08 May 2025 14:28

Tgt Ion:	278	Resp:	4894
Ion Ratio	Lower	Upper	
278	100		
139	21.6	17.4	26.2
279	30.2	24.9	37.3





#41

Benzo(g,h,i)perylene

Concen: 0.402 ng

RT: 26.316 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN036972.D

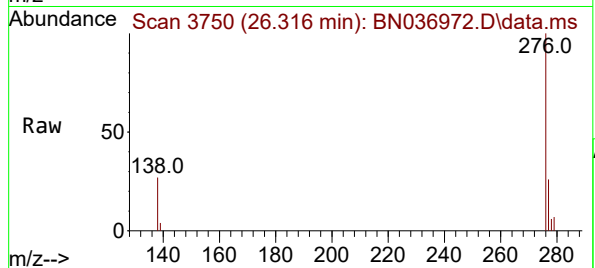
Acq: 08 May 2025 14:28

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



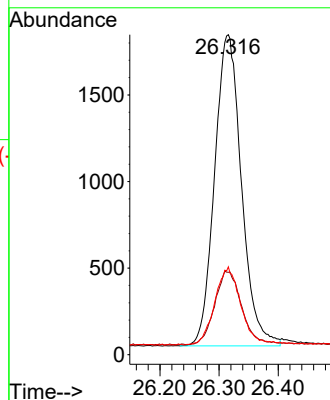
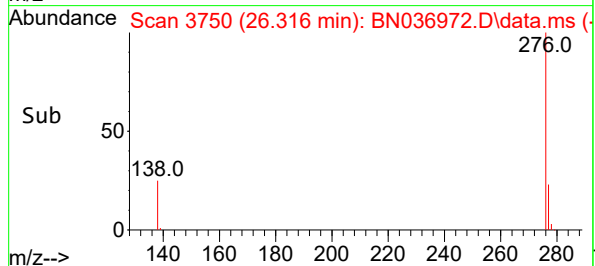
Tgt Ion:276 Resp: 5674

Ion Ratio Lower Upper

276 100

277 25.8 20.2 30.2

138 27.5 21.9 32.9



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050825\
 Data File : BN036972.D
 Acq On : 08 May 2025 14:28
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: May 08 15:00:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 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	74	0.00
2	1,4-Dioxane	0.498	0.509	-2.2	68	0.00
3	n-Nitrosodimethylamine	0.967	1.034	-6.9	76	0.00
4 S	2-Fluorophenol	1.023	1.032	-0.9	68	0.00
5 S	Phenol-d6	1.259	1.275	-1.3	70	0.00
6	bis(2-Chloroethyl)ether	1.167	1.114	4.5	70	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	75	-0.01
8 S	Nitrobenzene-d5	0.418	0.416	0.5	76	-0.01
9	Naphthalene	1.164	1.153	0.9	75	0.00
10	Hexachlorobutadiene	0.252	0.247	2.0	74	-0.01
11 SURR	2-Methylnaphthalene-d10	0.559	0.538	3.8	75	0.00
12	2-Methylnaphthalene	0.753	0.727	3.5	76	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	79	0.00
14 S	2,4,6-Tribromophenol	0.178	0.170	4.5	76	0.00
15 S	2-Fluorobiphenyl	1.933	1.961	-1.4	75	0.00
16	Acenaphthylene	1.955	1.883	3.7	78	-0.01
17	Acenaphthene	1.284	1.257	2.1	78	-0.01
18	Fluorene	1.680	1.650	1.8	80	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	83	0.00
20	4,6-Dinitro-2-methylphenol	0.106	0.098	7.5	90	0.00
21	4-Bromophenyl-phenylether	0.267	0.254	4.9	81	-0.01
22	Hexachlorobenzene	0.293	0.280	4.4	78	-0.01
23	Atrazine	0.215	0.211	1.9	88	0.00
24	Pentachlorophenol	0.157	0.147	6.4	85	-0.01
25	Phenanthrene	1.320	1.289	2.3	83	0.00
26	Anthracene	1.194	1.137	4.8	83	0.00
27 SURR	Fluoranthene-d10	1.037	1.049	-1.2	88	0.00
28	Fluoranthene	1.480	1.491	-0.7	89	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	101	0.00
30	Pyrene	1.927	1.709	11.3	88	0.00
31 S	Terphenyl-d14	0.944	0.862	8.7	92	0.00
32	Benzo(a)anthracene	1.473	1.428	3.1	101	0.00
33	Chrysene	1.589	1.647	-3.7	101	0.00
34	Bis(2-ethylhexyl)phthalate	0.838	0.899	-7.3	109	0.00
35 I	Perylene-d12	1.000	1.000	0.0	109	0.00
36	Indeno(1,2,3-cd)pyrene	1.634	1.641	-0.4	104	0.00
37	Benzo(b)fluoranthene	1.682	1.614	4.0	108	0.00
38	Benzo(k)fluoranthene	1.691	1.621	4.1	107	0.00
39 C	Benzo(a)pyrene	1.383	1.363	1.4	109	0.00
40	Dibenzo(a,h)anthracene	1.286	1.237	3.8	100	0.00
41	Benzo(g,h,i)perylene	1.427	1.434	-0.5	103	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050825\
 Data File : BN036972.D
 Acq On : 08 May 2025 14:28
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: May 08 15:00:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 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	74	0.00
2	1,4-Dioxane	0.400	0.409	-2.2	68	0.00
3	n-Nitrosodimethylamine	0.400	0.428	-7.0	76	0.00
4 S	2-Fluorophenol	0.400	0.403	-0.8	68	0.00
5 S	Phenol-d6	0.400	0.405	-1.3	70	0.00
6	bis(2-Chloroethyl)ether	0.400	0.382	4.5	70	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	75	-0.01
8 S	Nitrobenzene-d5	0.400	0.398	0.5	76	-0.01
9	Naphthalene	0.400	0.396	1.0	75	0.00
10	Hexachlorobutadiene	0.400	0.392	2.0	74	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.385	3.8	75	0.00
12	2-Methylnaphthalene	0.400	0.386	3.5	76	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	79	0.00
14 S	2,4,6-Tribromophenol	0.400	0.381	4.8	76	0.00
15 S	2-Fluorobiphenyl	0.400	0.406	-1.5	75	0.00
16	Acenaphthylene	0.400	0.385	3.8	78	-0.01
17	Acenaphthene	0.400	0.392	2.0	78	-0.01
18	Fluorene	0.400	0.393	1.8	80	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	83	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.370	7.5	90	0.00
21	4-Bromophenyl-phenylether	0.400	0.380	5.0	81	-0.01
22	Hexachlorobenzene	0.400	0.383	4.3	78	-0.01
23	Atrazine	0.400	0.392	2.0	88	0.00
24	Pentachlorophenol	0.400	0.375	6.3	85	-0.01
25	Phenanthrene	0.400	0.390	2.5	83	0.00
26	Anthracene	0.400	0.381	4.8	83	0.00
27 SURR	Fluoranthene-d10	0.400	0.404	-1.0	88	0.00
28	Fluoranthene	0.400	0.403	-0.8	89	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	101	0.00
30	Pyrene	0.400	0.355	11.3	88	0.00
31 S	Terphenyl-d14	0.400	0.365	8.8	92	0.00
32	Benzo(a)anthracene	0.400	0.388	3.0	101	0.00
33	Chrysene	0.400	0.415	-3.7	101	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.429	-7.2	109	0.00
35 I	Perylene-d12	0.400	0.400	0.0	109	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.402	-0.5	104	0.00
37	Benzo(b)fluoranthene	0.400	0.384	4.0	108	0.00
38	Benzo(k)fluoranthene	0.400	0.383	4.3	107	0.00
39 C	Benzo(a)pyrene	0.400	0.394	1.5	109	0.00
40	Dibenzo(a,h)anthracene	0.400	0.385	3.8	100	0.00
41	Benzo(g,h,i)perylene	0.400	0.402	-0.5	103	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.: Q1872 SAS No.: Q1872 SDG No.: Q1872

Instrument ID: BNA_N Calibration Date/Time: 05/14/2025 10:31

Lab File ID: BN037009.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 17:41 21:17

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.563	0.552		-2.0	20.0
Fluoranthene-d10	1.097	1.065		-2.9	20.0
2-Fluorophenol	1.048	1.078		2.9	20.0
Phenol-d6	1.311	1.303		-0.6	20.0
Nitrobenzene-d5	0.436	0.407		-6.7	20.0
Naphthalene	1.182	1.143		-3.3	20.0
2-Methylnaphthalene	0.760	0.746		-1.8	20.0
2-Fluorobiphenyl	1.832	1.850		1.0	20.0
Acenaphthylene	1.947	1.886		-3.1	20.0
Acenaphthene	1.272	1.258		-1.1	20.0
Fluorene	1.669	1.651		-1.1	20.0
2,4,6-Tribromophenol	0.176	0.176		0.0	20.0
Phenanthrene	1.307	1.314		0.5	20.0
Anthracene	1.190	1.155		-2.9	20.0
Fluoranthene	1.562	1.510		-3.3	20.0
Pyrene	1.711	1.769		3.4	20.0
Terphenyl-d14	0.856	0.892		4.2	20.0
Benzo(a)anthracene	1.506	1.459		-3.1	20.0
Chrysene	1.593	1.655		3.9	20.0
Benzo(b)fluoranthene	1.659	1.632		-1.6	20.0
Benzo(k)fluoranthene	1.639	1.622		-1.0	20.0
Benzo(a)pyrene	1.407	1.369		-2.7	20.0
Indeno(1,2,3-cd)pyrene	1.634	1.641		0.4	20.0
Dibenzo(a,h)anthracene	1.273	1.261		-0.9	20.0
Benzo(g,h,i)perylene	1.383	1.425		3.0	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037009.D
 Acq On : 14 May 2025 10:31
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Manual Integrations
 APPROVED

Reviewed By :Rahul Chavli 05/15/2025
 Supervised By :Jagrut Upadhyay 05/15/2025

Quant Time: May 14 11:28:35 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 11:26:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.618	152	1633	0.40	ng	0.00
7) Naphthalene-d8	10.394	136	4300	0.40	ng	#-0.01
13) Acenaphthene-d10	14.267	164	2444	0.40	ng	0.00
19) Phenanthrene-d10	17.009	188	4780	0.40	ng	0.00
29) Chrysene-d12	21.215	240	4137	0.40	ng	# 0.00
35) Perylene-d12	23.421	264	4043	0.40	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.206	112	1761	0.41	ng	0.00
5) Phenol-d6	6.788	99	2128	0.40	ng	0.00
8) Nitrobenzene-d5	8.760	82	1748	0.37	ng	-0.01
11) 2-Methylnaphthalene-d10	11.996	152	2373	0.39	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	429	0.40	ng	0.00
15) 2-Fluorobiphenyl	12.883	172	4521	0.40	ng	0.00
27) Fluoranthene-d10	19.049	212	5092	0.39	ng	0.00
31) Terphenyl-d14	19.658	244	3691	0.42	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.141	88	732m	0.37	ng	
3) n-Nitrosodimethylamine	3.458	42	1610	0.37	ng	# 93
6) bis(2-Chloroethyl)ether	7.048	93	1864	0.38	ng	99
9) Naphthalene	10.447	128	4917	0.39	ng	99
10) Hexachlorobutadiene	10.735	225	1070	0.40	ng	# 99
12) 2-Methylnaphthalene	12.072	142	3206	0.39	ng	99
16) Acenaphthylene	13.978	152	4609	0.39	ng	99
17) Acenaphthene	14.331	154	3074	0.40	ng	100
18) Fluorene	15.314	166	4034	0.40	ng	99
20) 4,6-Dinitro-2-methylph...	15.411	198	390	0.42	ng	92
21) 4-Bromophenyl-phenylether	16.214	248	1206	0.40	ng	99
22) Hexachlorobenzene	16.326	284	1358	0.42	ng	99
23) Atrazine	16.487	200	1010	0.38	ng	99
24) Pentachlorophenol	16.674	266	679	0.38	ng	96
25) Phenanthrene	17.058	178	6280	0.40	ng	100
26) Anthracene	17.145	178	5522	0.39	ng	99
28) Fluoranthene	19.082	202	7218	0.39	ng	99
30) Pyrene	19.444	202	7317	0.41	ng	100
32) Benzo(a)anthracene	21.198	228	6036	0.39	ng	99
33) Chrysene	21.251	228	6845	0.42	ng	97
34) Bis(2-ethylhexyl)phtha...	21.144	149	3623	0.38	ng	99
36) Indeno(1,2,3-cd)pyrene	25.631	276	6635	0.40	ng	99
37) Benzo(b)fluoranthene	22.758	252	6597	0.39	ng	99
38) Benzo(k)fluoranthene	22.801	252	6556	0.40	ng	99
39) Benzo(a)pyrene	23.322	252	5536	0.39	ng	98
40) Dibenzo(a,h)anthracene	25.646	278	5097	0.40	ng	98
41) Benzo(g,h,i)perylene	26.310	276	5763	0.41	ng	98

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

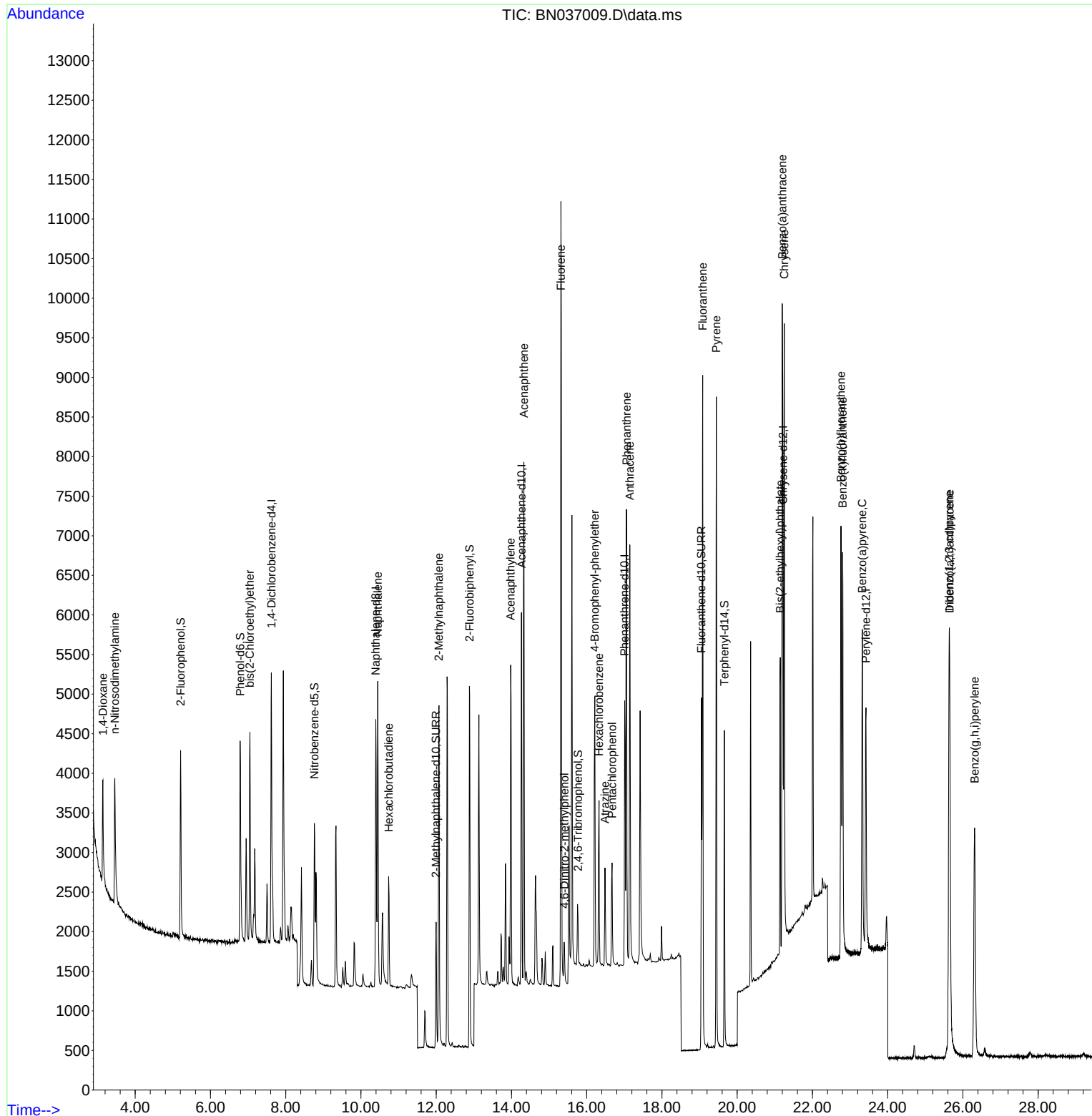
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037009.D
Acq On : 14 May 2025 10:31
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

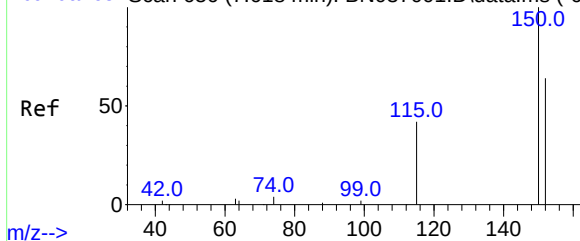
Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

Quant Time: May 14 11:28:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 11:26:32 2025
Response via : Initial Calibration



Abundance Scan 656 (7.618 min): BN037001.D\data.ms (-65)



#1

1,4-Dichlorobenzene-d4

Concen: 0.40 ng

RT: 7.618 min Scan# 656

Delta R.T. 0.000 min

Lab File: BN037009.D

Acq: 14 May 2025 10:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:152 Resp: 163

Ion Ratio Lower Upper

152 100

150 153.2 123.9 185.9

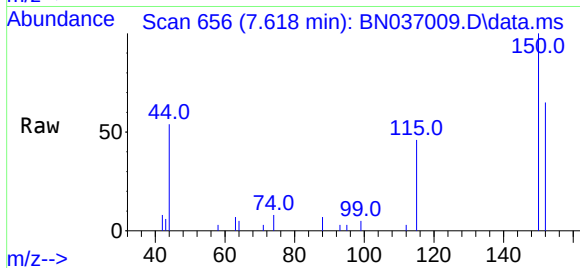
115 70.2 55.8 83.8

Manual Integrations

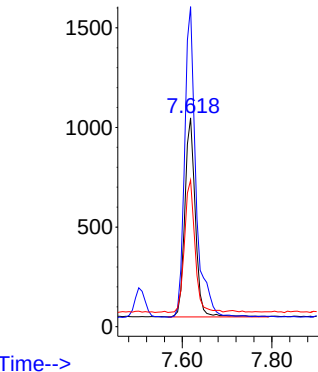
APPROVED

Reviewed By :Rahul Chavli 05/15/2025

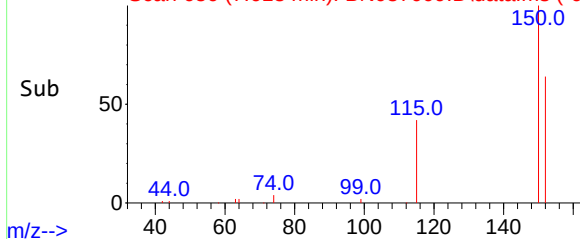
Supervised By :Jagrut Upadhyay 05/15/2025



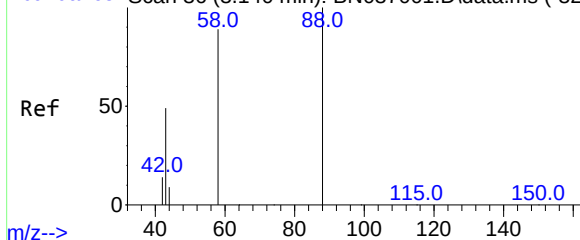
Abundance



Abundance Scan 656 (7.618 min): BN037009.D\data.ms (-62)



Abundance Scan 36 (3.140 min): BN037001.D\data.ms (-32)



#2

1,4-Dioxane

Concen: 0.37 ng m

RT: 3.141 min Scan# 36

Delta R.T. 0.001 min

Lab File: BN037009.D

Acq: 14 May 2025 10:31

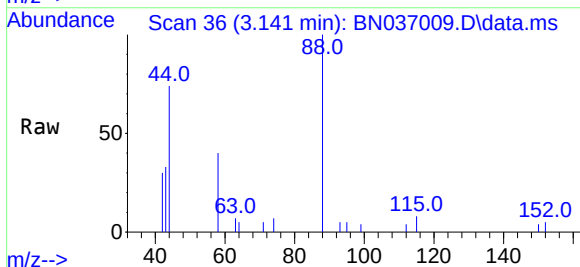
Tgt Ion: 88 Resp: 732

Ion Ratio Lower Upper

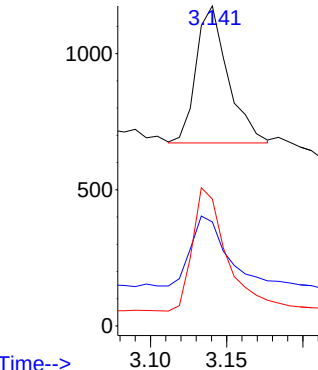
88 100

43 62.6 37.4 56.0#

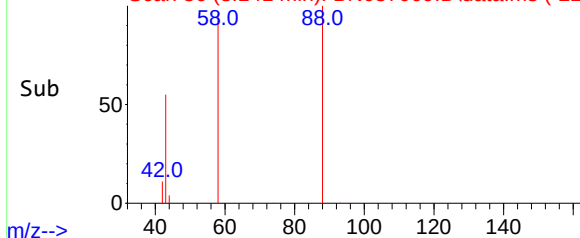
58 100.3 68.8 103.2



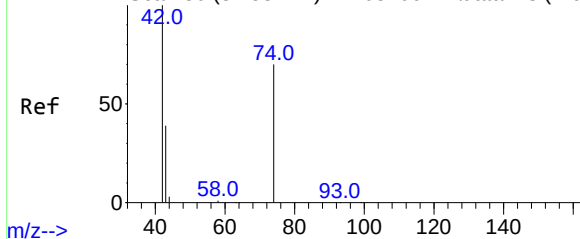
Abundance



Abundance Scan 36 (3.141 min): BN037009.D\data.ms (-22)



Abundance Scan 80 (3.458 min): BN037001.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.37 ng

RT: 3.458 min Scan# 80

Delta R.T. 0.000 min

Lab File: BN037009.D

Acq: 14 May 2025 10:31

Instrument :

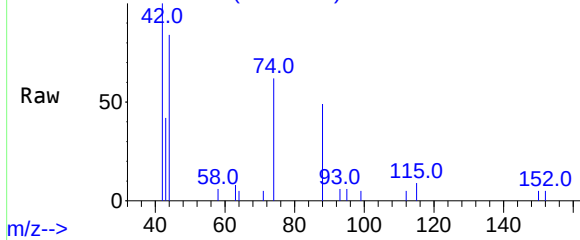
BNA_N

ClientSampleId :

SSTDCCC0.4

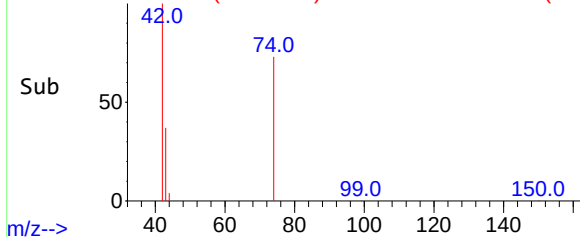
m/z-->

Abundance Scan 80 (3.458 min): BN037009.D\data.ms



m/z-->

Abundance Scan 80 (3.458 min): BN037009.D\data.ms (-59)



m/z-->

Tgt Ion: 42 Resp: 1610

Ion Ratio Lower Upper

42 100

74 72.5 59.8 89.6

44 3.9 11.9 17.9

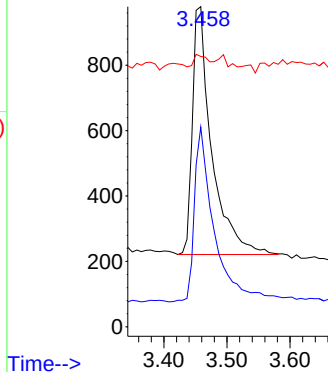
Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025

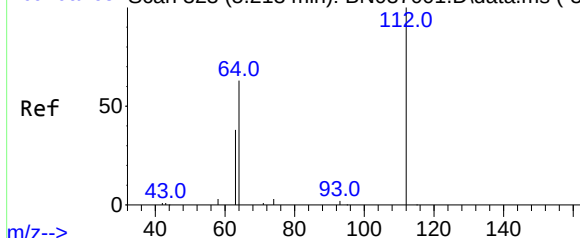
Supervised By :Jagrut Upadhyay 05/15/2025

Abundance



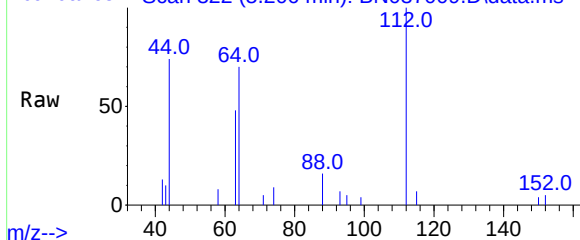
Time-->

Abundance Scan 323 (5.213 min): BN037001.D\data.ms (-31)



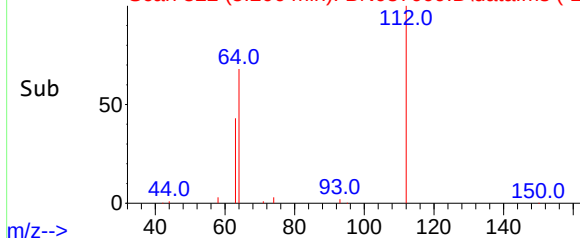
m/z-->

Abundance Scan 322 (5.206 min): BN037009.D\data.ms



m/z-->

Abundance Scan 322 (5.206 min): BN037009.D\data.ms (-29)



m/z-->

#4

2-Fluorophenol

Concen: 0.41 ng

RT: 5.206 min Scan# 322

Delta R.T. -0.007 min

Lab File: BN037009.D

Acq: 14 May 2025 10:31

Tgt Ion:112 Resp: 1761

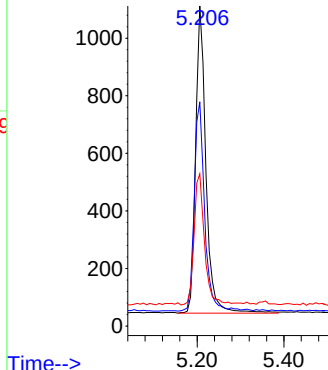
Ion Ratio Lower Upper

112 100

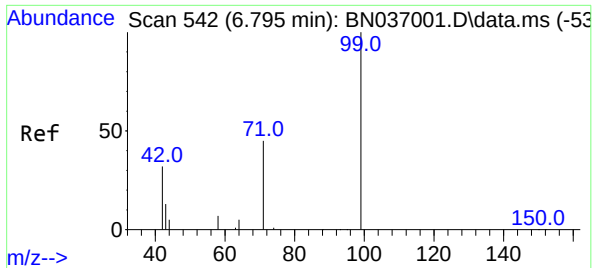
64 68.0 55.7 83.5

63 44.1 34.6 51.8

Abundance



Time-->



#5
Phenol-d6
Concen: 0.40 ng
RT: 6.788 min Scan# 541
Delta R.T. -0.007 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31

Instrument :

BNA_N

ClientSampleId :

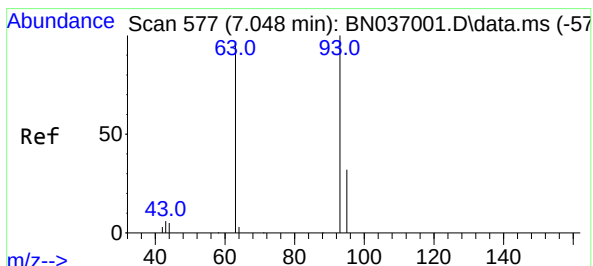
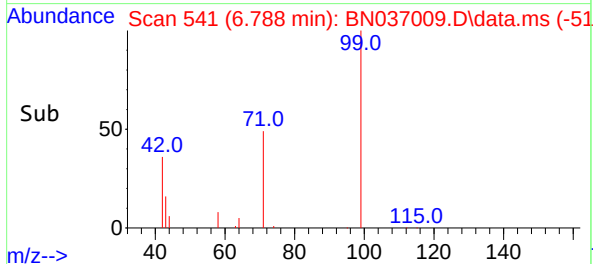
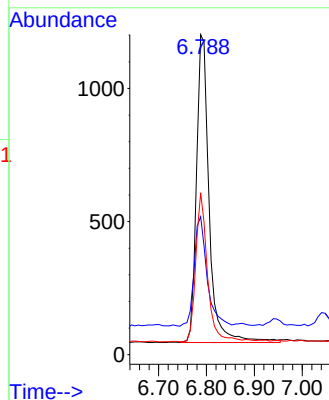
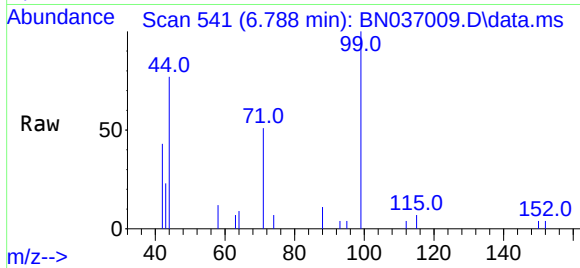
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
99	100		
42	36.1	29.3	43.9
71	44.3	35.7	53.5

Manual Integrations

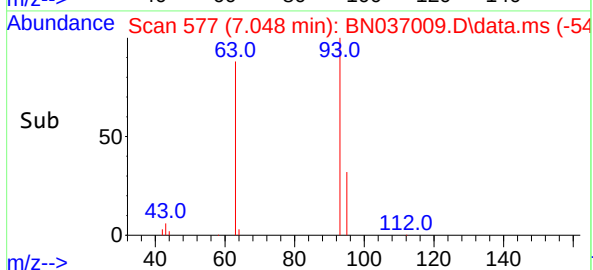
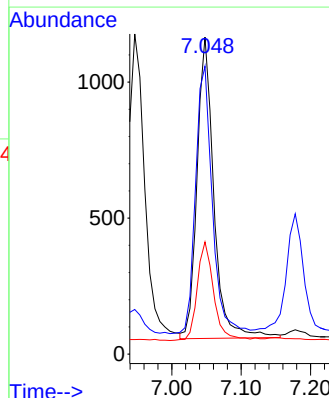
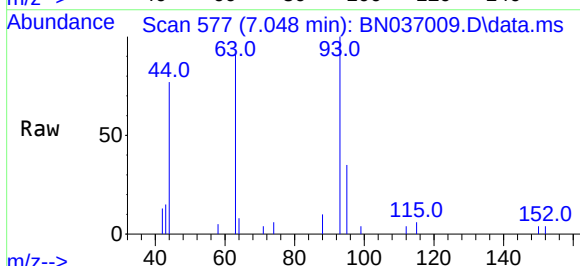
APPROVED

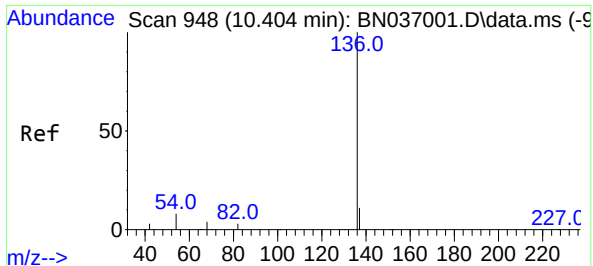
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.38 ng
RT: 7.048 min Scan# 577
Delta R.T. 0.000 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31

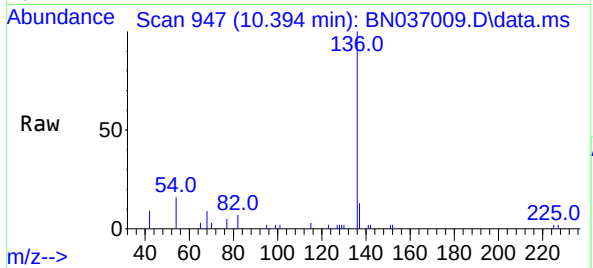
Tgt Ion	Ratio	Lower	Upper
93	100		
63	88.5	70.1	105.1
95	31.9	26.2	39.2





#7
Naphthalene-d8
Concen: 0.40 ng
RT: 10.394 min Scan# 948
Delta R.T. -0.011 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31

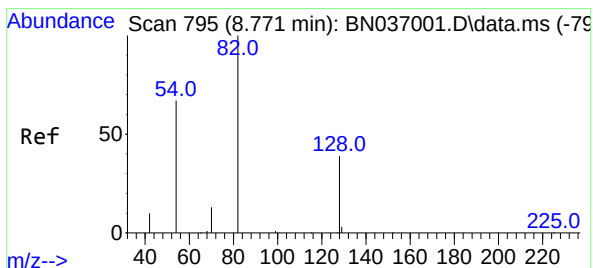
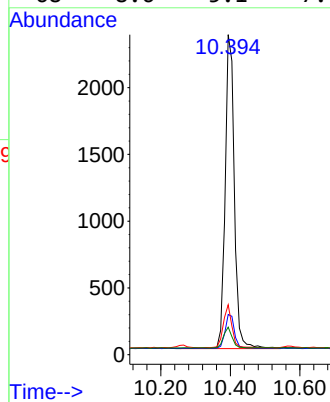
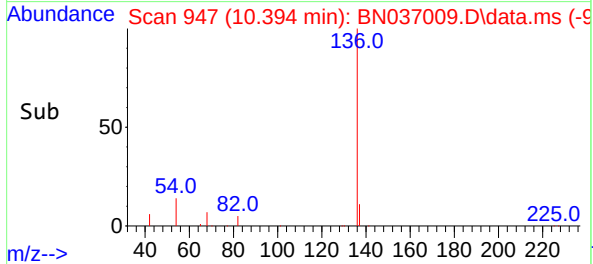
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:136 Resp: 4300
Ion Ratio Lower Upper
136 100
137 12.6 10.4 15.6
54 15.6 8.5 12.7
68 8.6 5.1 7.7#

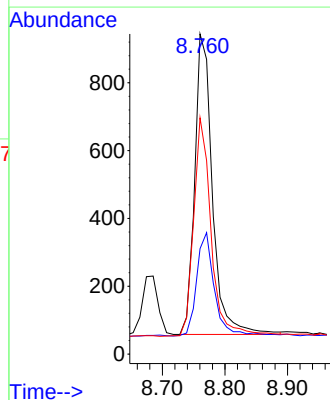
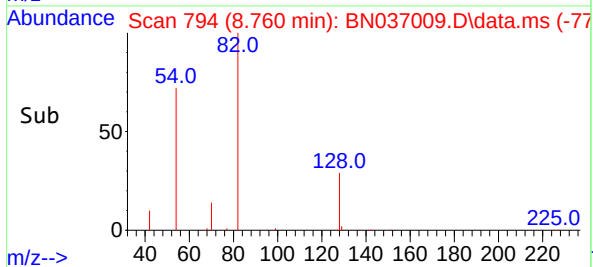
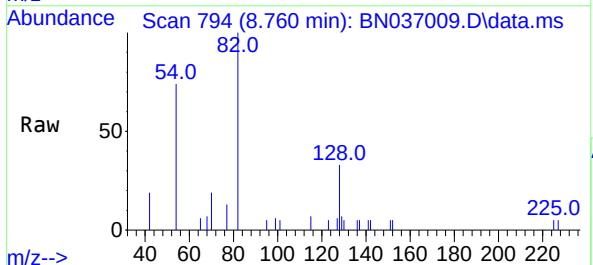
Manual Integrations
APPROVED

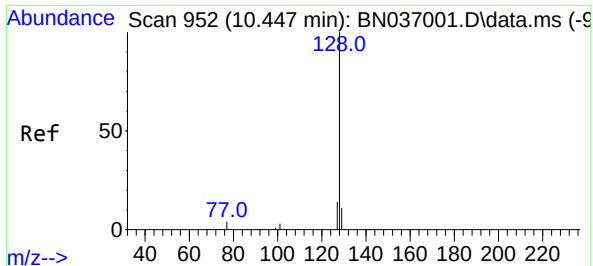
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#8
Nitrobenzene-d5
Concen: 0.37 ng
RT: 8.760 min Scan# 794
Delta R.T. -0.011 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31

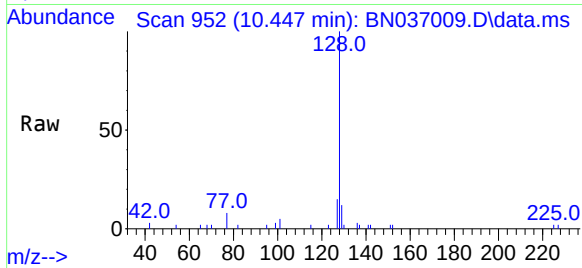
Tgt Ion: 82 Resp: 1748
Ion Ratio Lower Upper
82 100
128 32.9 34.0 51.0#
54 73.8 55.0 82.4





#9
Naphthalene
Concen: 0.39 ng
RT: 10.447 min Scan# 911
Delta R.T. 0.000 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31

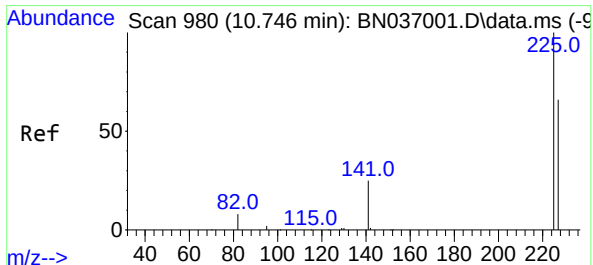
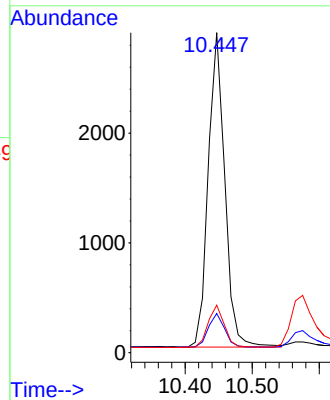
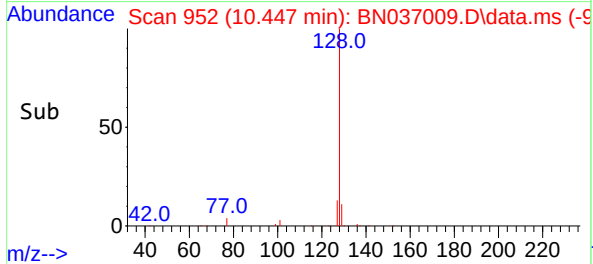
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:128 Resp: 491
Ion Ratio Lower Upper
128 100
129 12.2 9.7 14.5
127 14.9 12.4 18.6

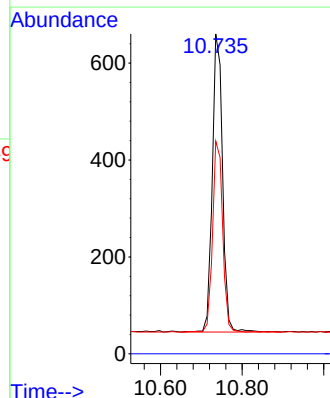
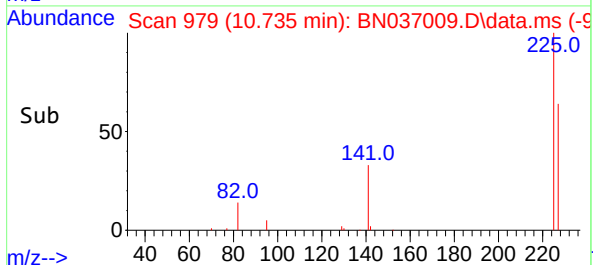
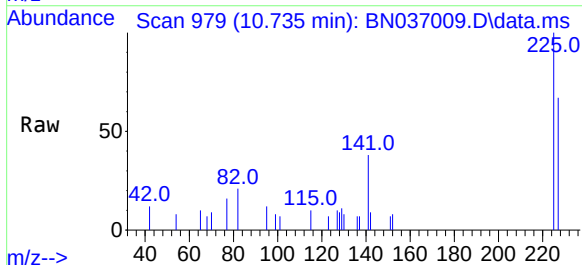
Manual Integrations
APPROVED

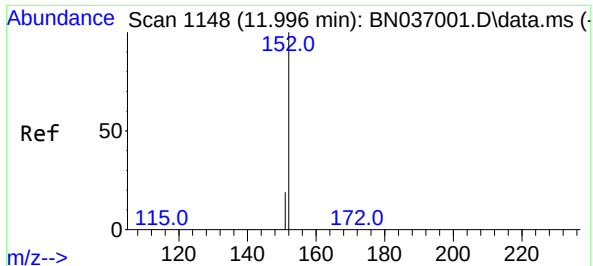
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#10
Hexachlorobutadiene
Concen: 0.40 ng
RT: 10.735 min Scan# 979
Delta R.T. -0.011 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31

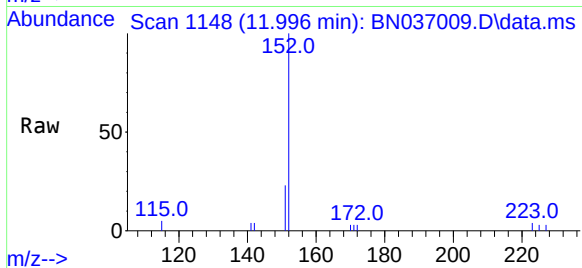
Tgt Ion:225 Resp: 1070
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.8 50.9 76.3





#11
2-Methylnaphthalene-d10
Concen: 0.39 ng
RT: 11.996 min Scan# 1148
Delta R.T. 0.000 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31

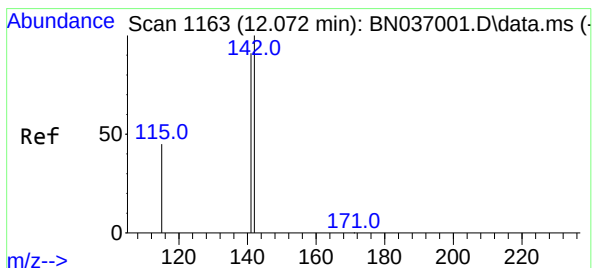
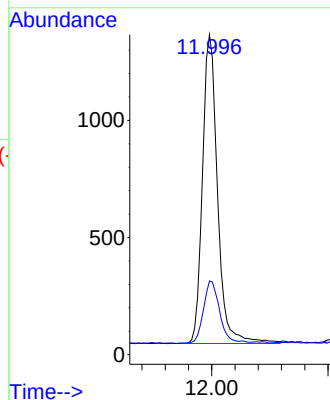
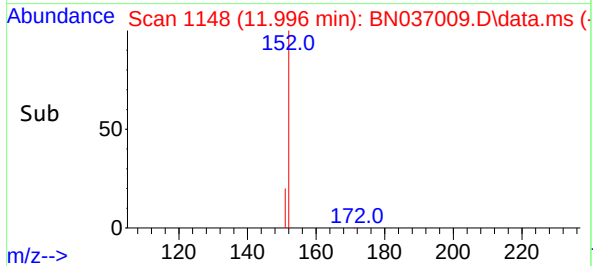
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



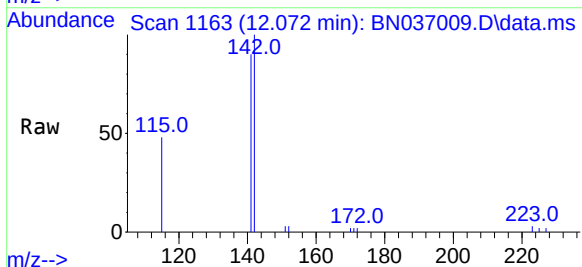
Tgt Ion:152 Resp: 237
Ion Ratio Lower Upper
152 100
151 21.9 17.5 26.3

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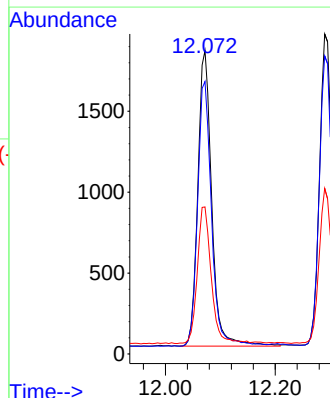
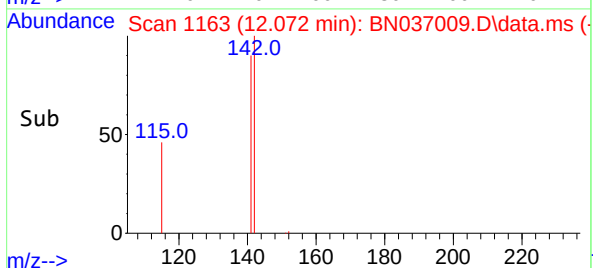
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

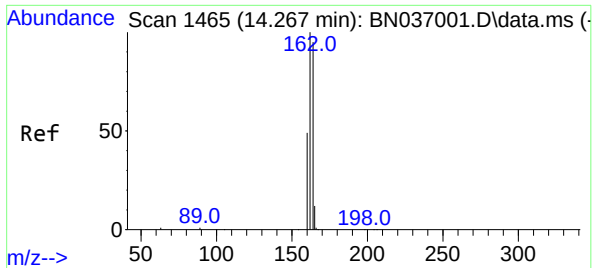


#12
2-Methylnaphthalene
Concen: 0.39 ng
RT: 12.072 min Scan# 1163
Delta R.T. 0.000 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31



Tgt Ion:142 Resp: 3206
Ion Ratio Lower Upper
142 100
141 89.8 73.3 109.9
115 48.5 38.4 57.6





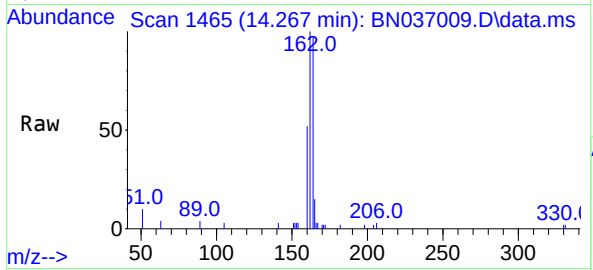
#13
Acenaphthene-d10
Concen: 0.40 ng
RT: 14.267 min Scan# 1465
Delta R.T. 0.000 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

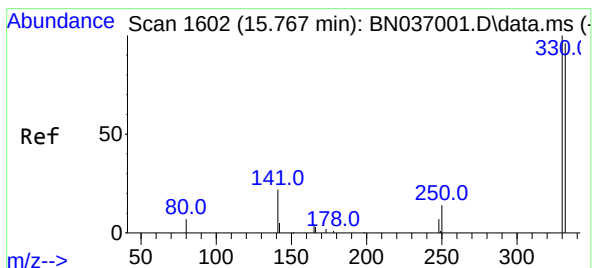
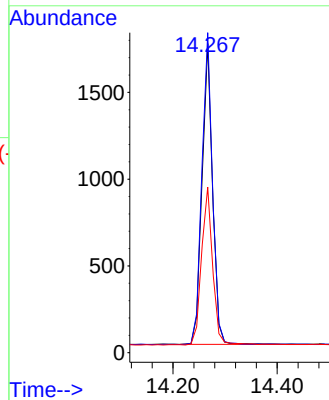
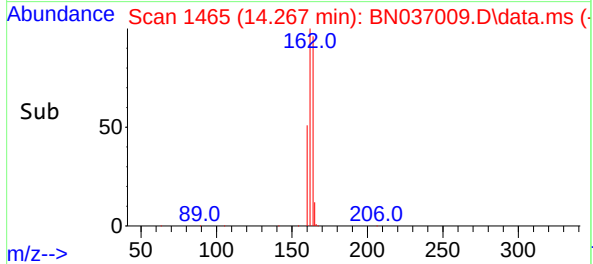


Tgt Ion:164 Resp: 244
Ion Ratio Lower Upper
164 100
162 103.5 84.2 126.4
160 53.6 42.6 63.8

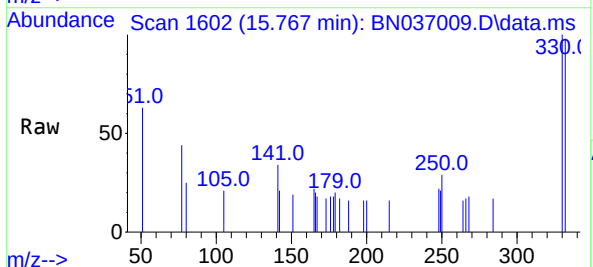
Manual Integrations

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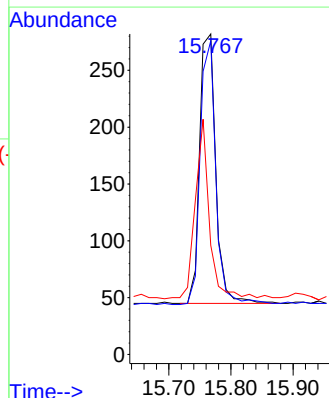
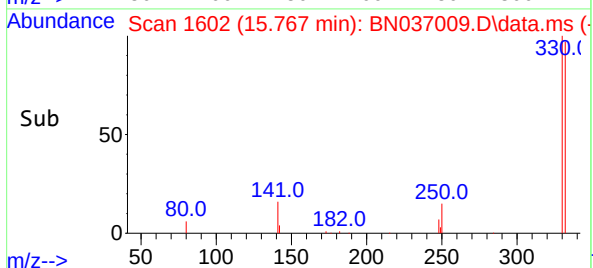
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

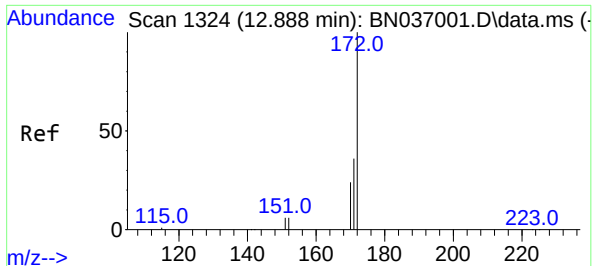


#14
2,4,6-Tribromophenol
Concen: 0.40 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31



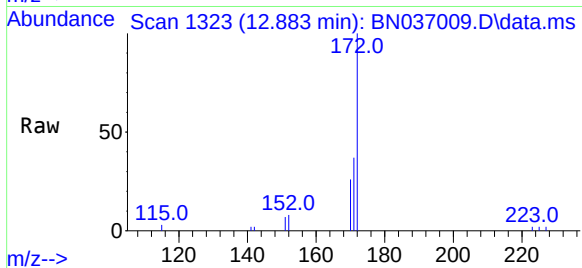
Tgt Ion:330 Resp: 429
Ion Ratio Lower Upper
330 100
332 95.3 73.8 110.8
141 58.7 43.9 65.9





#15
2-Fluorobiphenyl
Concen: 0.40 ng
RT: 12.883 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31

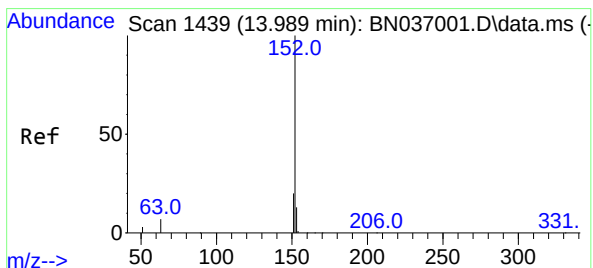
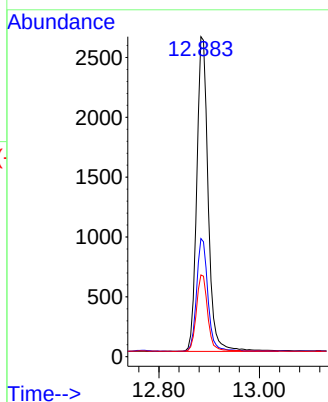
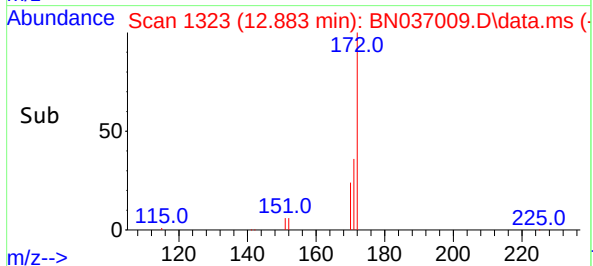
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:172 Resp: 452
Ion Ratio Lower Upper
172 100
171 36.9 29.2 43.8
170 25.6 20.5 30.7

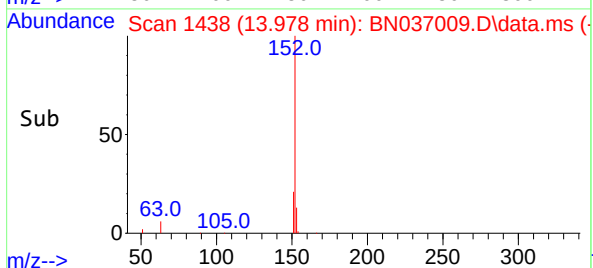
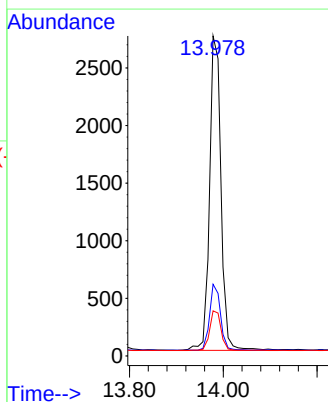
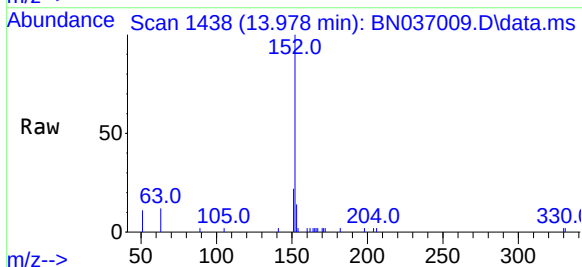
Manual Integrations
APPROVED

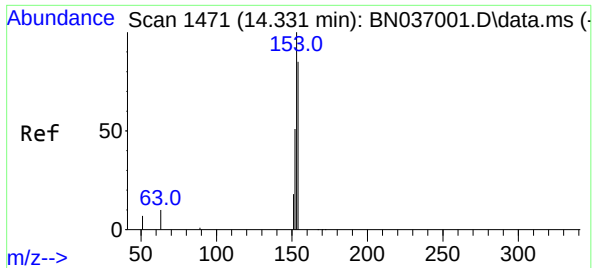
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#16
Acenaphthylene
Concen: 0.39 ng
RT: 13.978 min Scan# 1438
Delta R.T. -0.011 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31

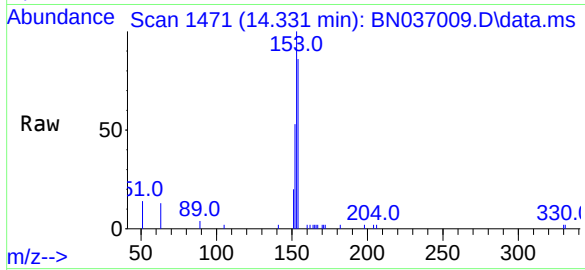
Tgt Ion:152 Resp: 4609
Ion Ratio Lower Upper
152 100
151 20.2 16.1 24.1
153 12.7 10.5 15.7





#17
Acenaphthene
Concen: 0.40 ng
RT: 14.331 min Scan# 1471
Delta R.T. 0.000 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31

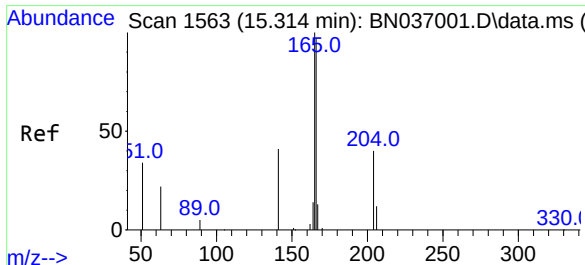
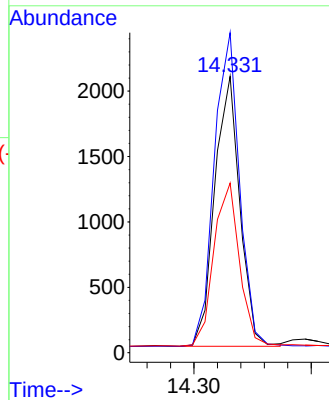
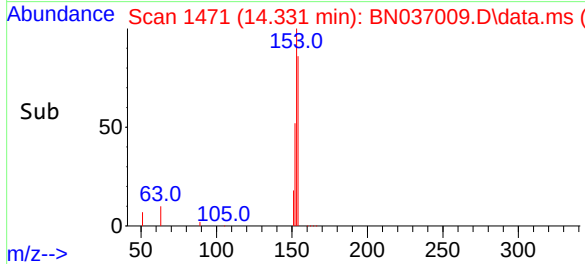
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



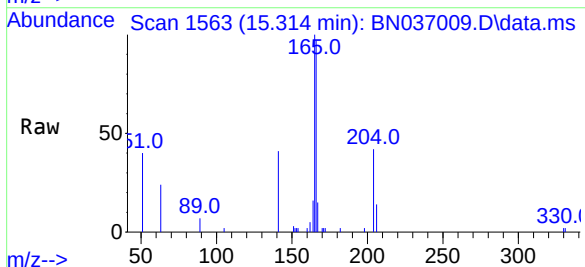
Tgt Ion:154 Resp: 3074
Ion Ratio Lower Upper
154 100
153 117.8 94.2 141.4
152 62.2 49.4 74.0

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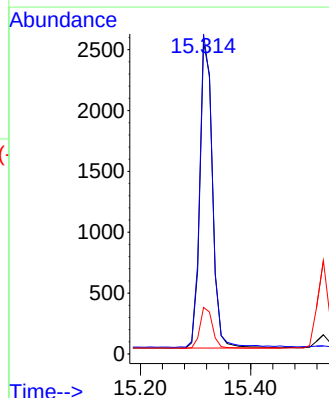
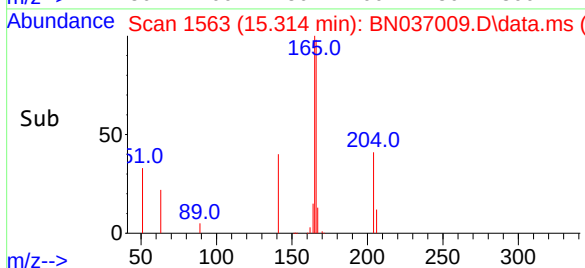
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

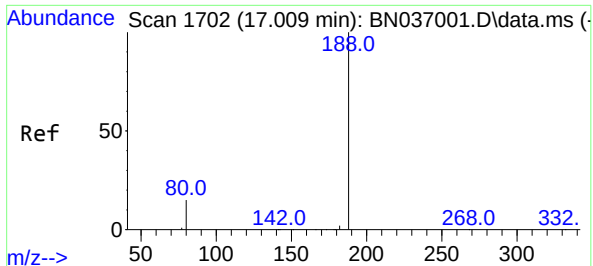


#18
Fluorene
Concen: 0.40 ng
RT: 15.314 min Scan# 1563
Delta R.T. 0.000 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31



Tgt Ion:166 Resp: 4034
Ion Ratio Lower Upper
166 100
165 101.7 80.6 120.8
167 13.5 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.40 ng

RT: 17.009 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037009.D

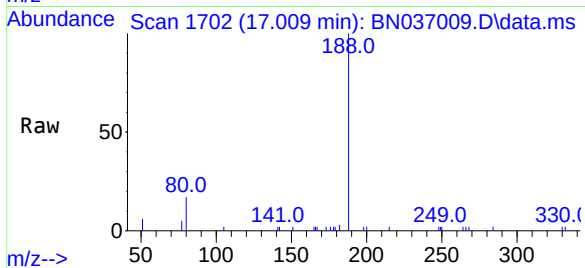
Acq: 14 May 2025 10:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:188 Resp: 4780

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

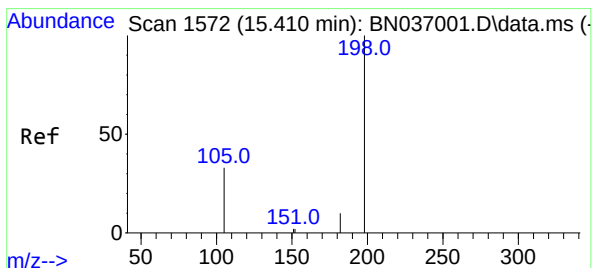
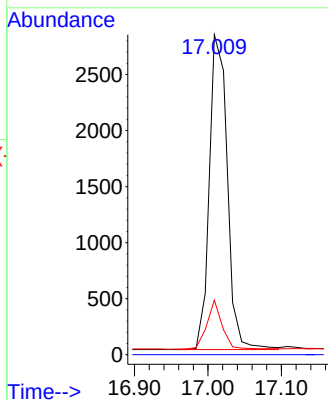
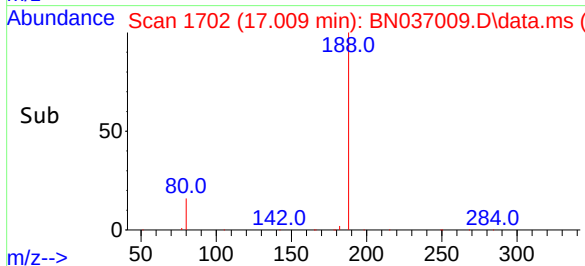
80 17.1 13.4 20.0

Manual Integrations

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Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#20

4,6-Dinitro-2-methylphenol

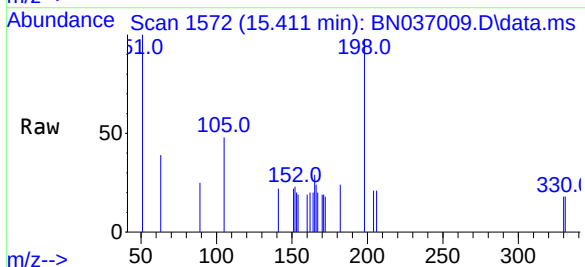
Concen: 0.42 ng

RT: 15.411 min Scan# 1572

Delta R.T. 0.001 min

Lab File: BN037009.D

Acq: 14 May 2025 10:31



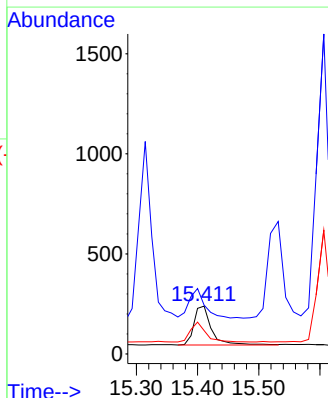
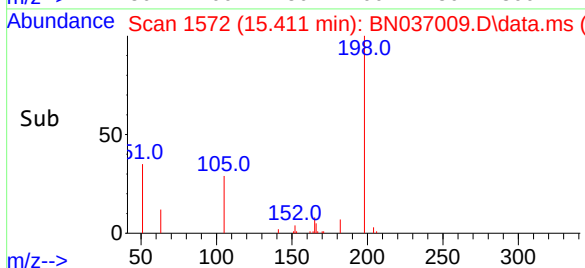
Tgt Ion:198 Resp: 390

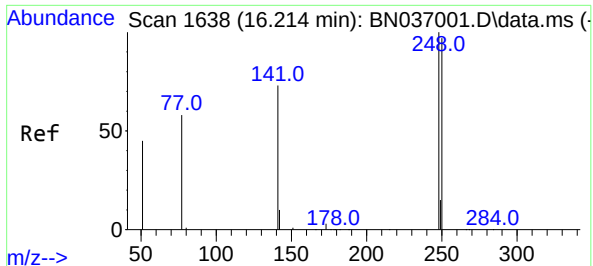
Ion Ratio Lower Upper

198 100

51 102.1 87.8 131.6

105 49.0 44.2 66.4





#21
4-Bromophenyl-phenylether
Concen: 0.40 ng
RT: 16.214 min Scan# 1638
Delta R.T. 0.000 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31

Instrument :

BNA_N

ClientSampleId :

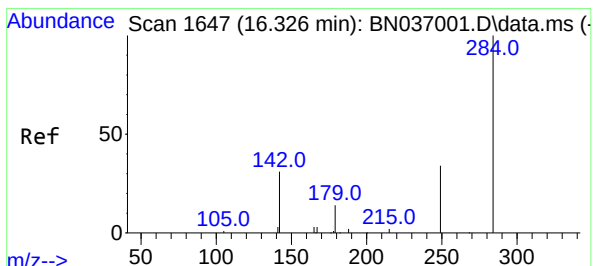
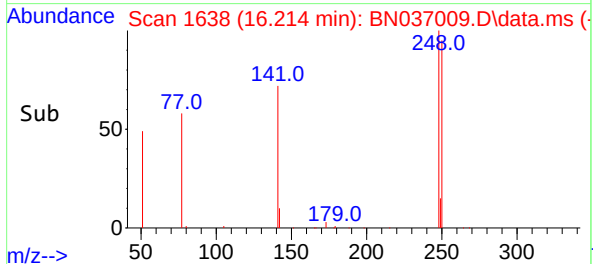
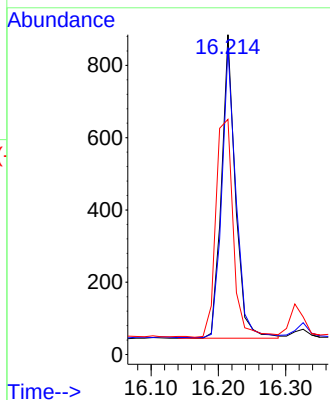
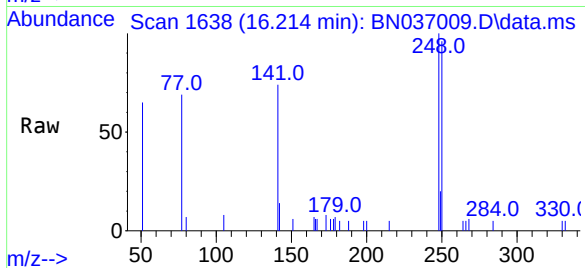
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
248	100		
250	95.9	78.1	117.1
141	73.6	59.7	89.5

Manual Integrations

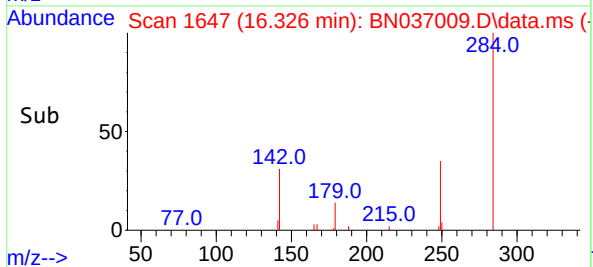
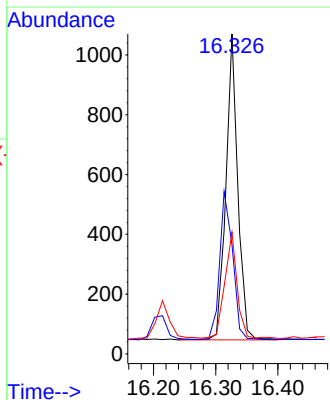
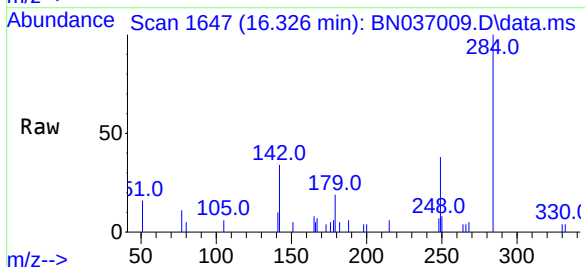
APPROVED

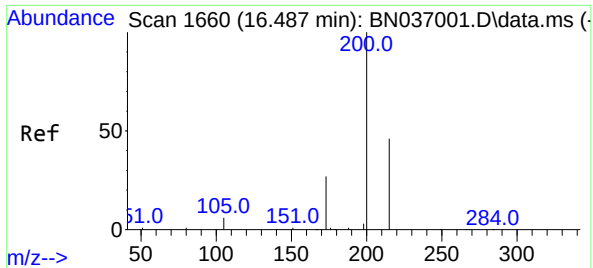
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#22
Hexachlorobenzene
Concen: 0.42 ng
RT: 16.326 min Scan# 1647
Delta R.T. 0.000 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31

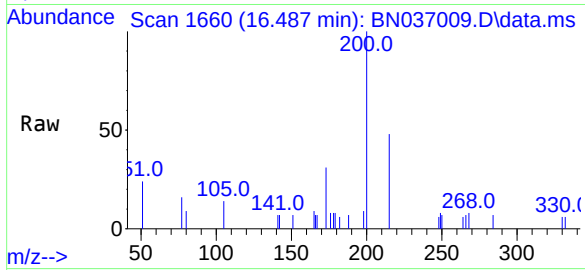
Tgt Ion	Ratio	Lower	Upper
284	100		
142	52.6	41.2	61.8
249	36.2	28.7	43.1





#23
Atrazine
Concen: 0.38 ng
RT: 16.487 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31

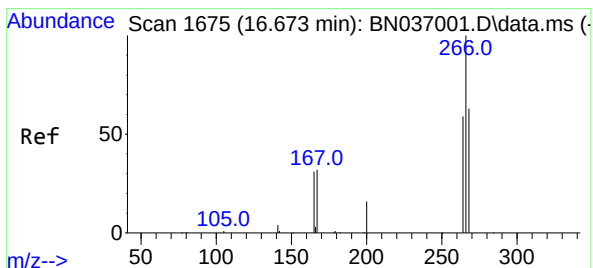
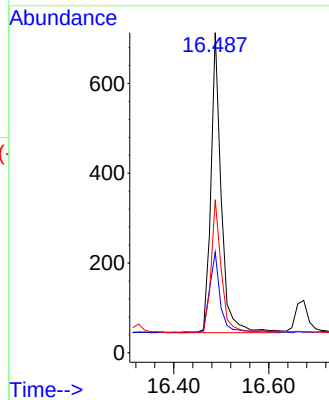
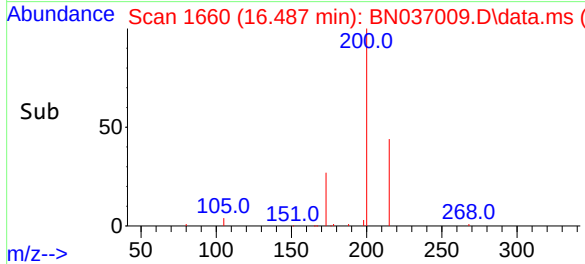
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:200 Resp: 1010
Ion Ratio Lower Upper
200 100
173 31.4 25.2 37.8
215 47.8 39.3 58.9

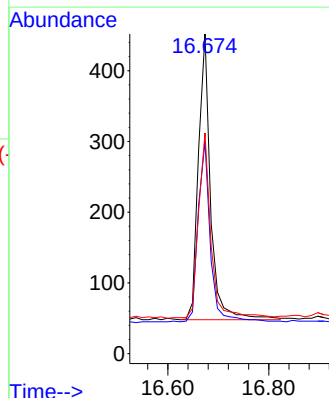
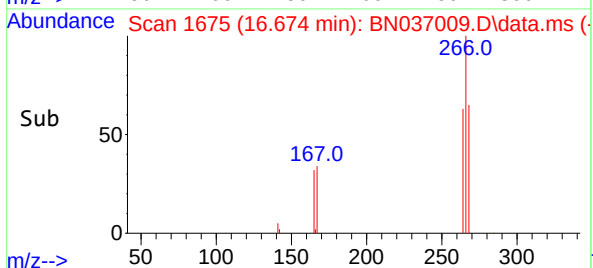
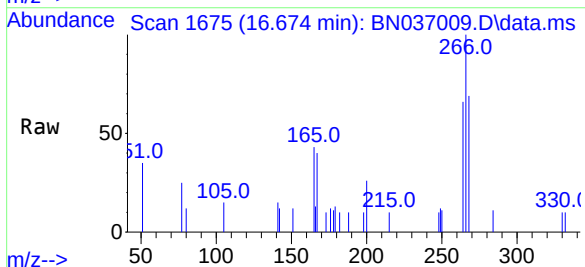
Manual Integrations
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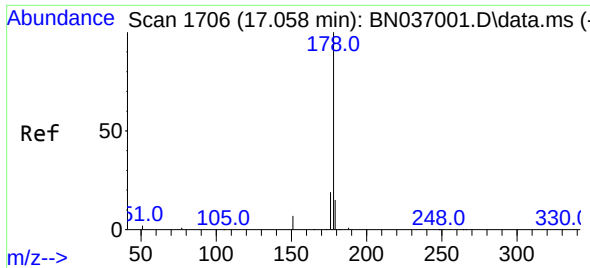
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#24
Pentachlorophenol
Concen: 0.38 ng
RT: 16.674 min Scan# 1675
Delta R.T. 0.000 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31

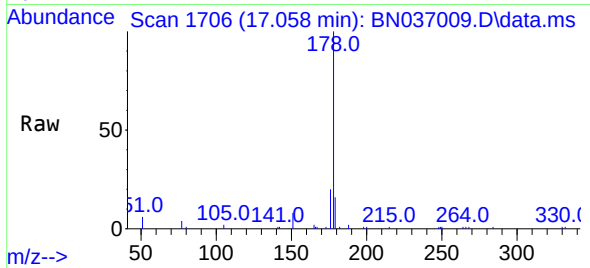
Tgt Ion:266 Resp: 679
Ion Ratio Lower Upper
266 100
264 63.3 47.9 71.9
268 65.1 50.0 75.0





#25
Phenanthrene
Concen: 0.40 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31

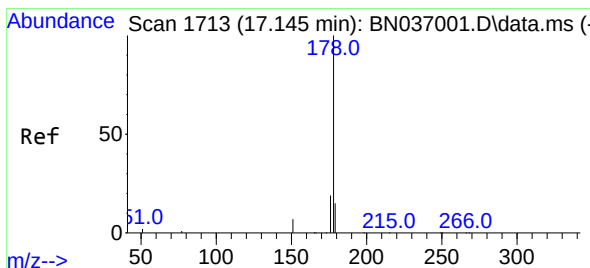
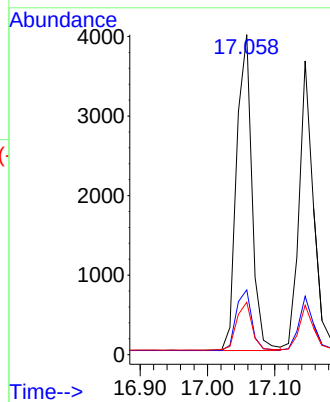
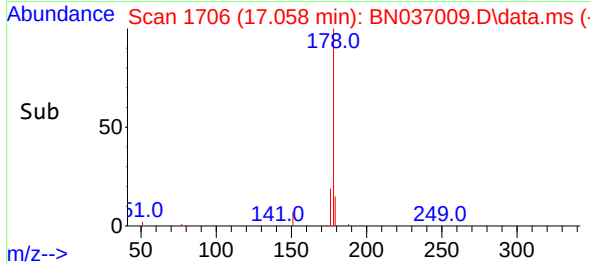
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:178 Resp: 6280
Ion Ratio Lower Upper
178 100
176 19.6 15.7 23.5
179 15.3 12.2 18.2

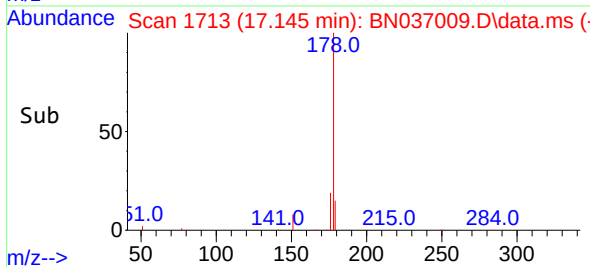
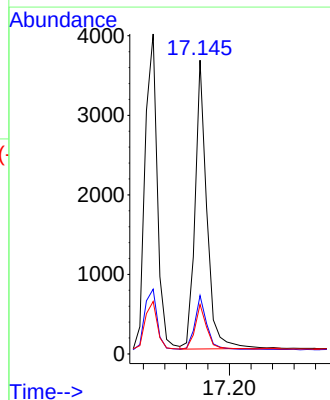
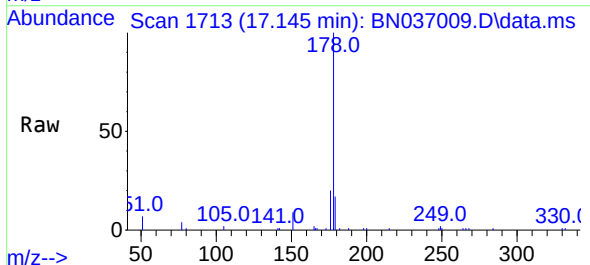
Manual Integrations
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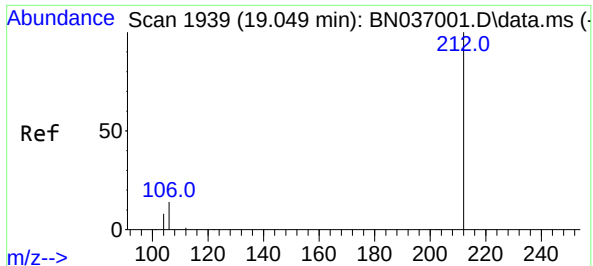
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#26
Anthracene
Concen: 0.39 ng
RT: 17.145 min Scan# 1713
Delta R.T. 0.000 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31

Tgt Ion:178 Resp: 5522
Ion Ratio Lower Upper
178 100
176 19.2 15.0 22.6
179 15.2 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.39 ng

RT: 19.049 min Scan# 1939

Delta R.T. 0.000 min

Lab File: BN037009.D

Acq: 14 May 2025 10:31

Instrument :

BNA_N

ClientSampleId :

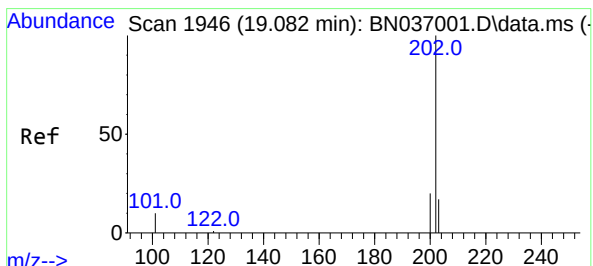
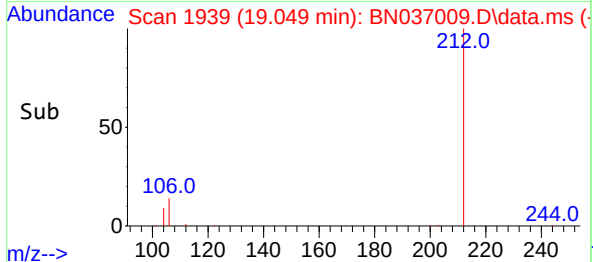
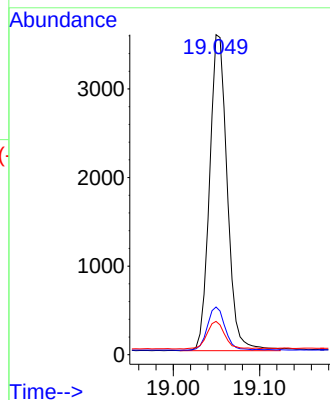
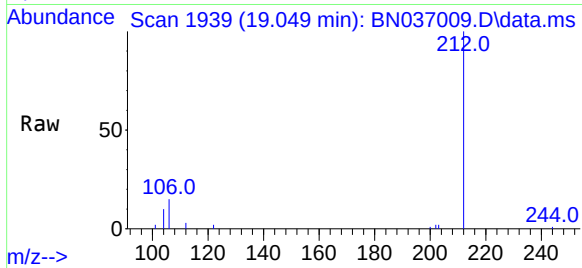
SSTDCCC0.4

Tgt Ion:	212	Resp:	5092
Ion	Ratio	Lower	Upper
212	100		
106	13.9	11.3	16.9
104	8.7	6.7	10.1

Manual Integrations

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Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#28

Fluoranthene

Concen: 0.39 ng

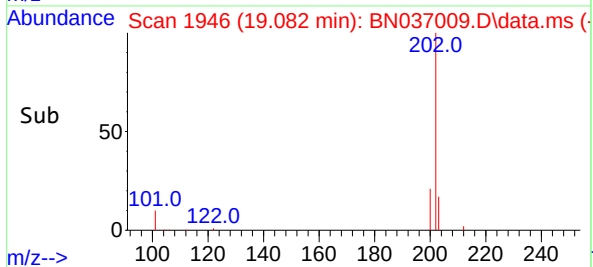
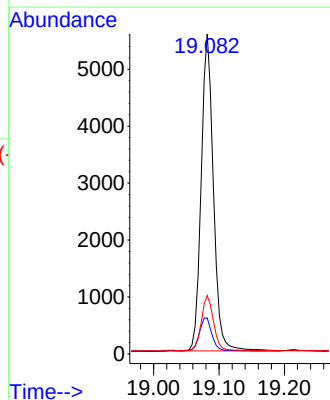
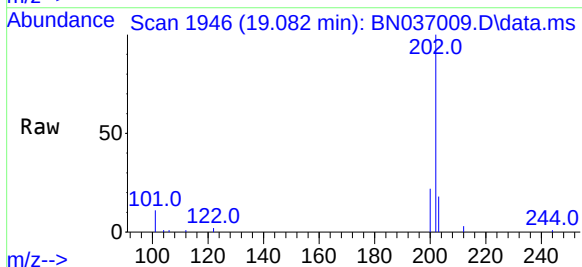
RT: 19.082 min Scan# 1946

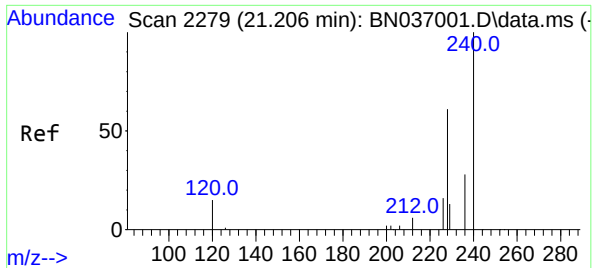
Delta R.T. 0.000 min

Lab File: BN037009.D

Acq: 14 May 2025 10:31

Tgt Ion:	202	Resp:	7218
Ion	Ratio	Lower	Upper
202	100		
101	10.6	8.9	13.3
203	17.2	13.8	20.8





#29
Chrysene-d12
Concen: 0.40 ng
RT: 21.215 min Scan# 2127
Delta R.T. 0.009 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31

Instrument :

BNA_N

ClientSampleId :

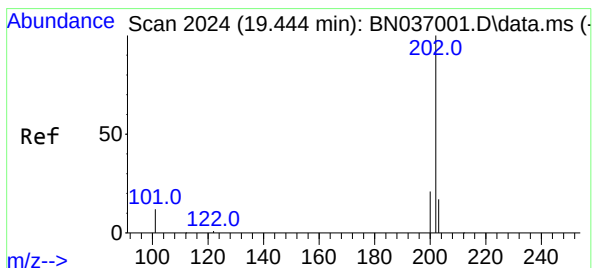
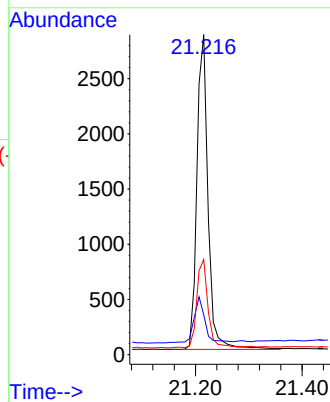
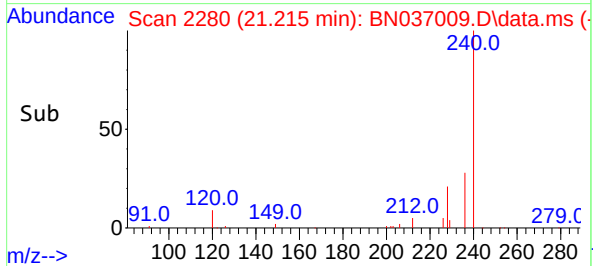
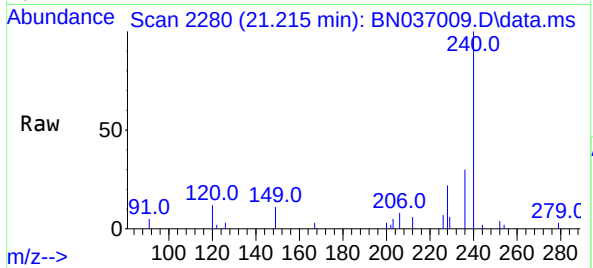
SSTDCCC0.4

Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.5	15.1	22.7
236	29.8	24.0	36.0

Manual Integrations

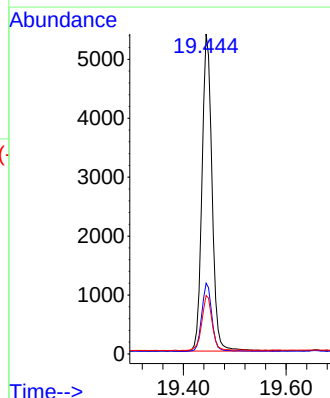
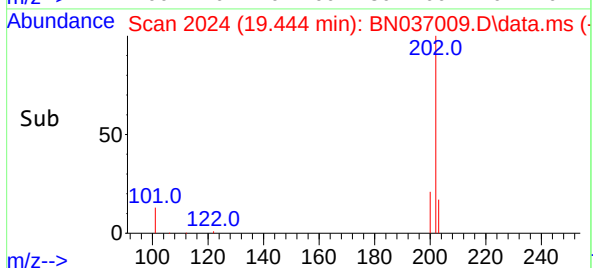
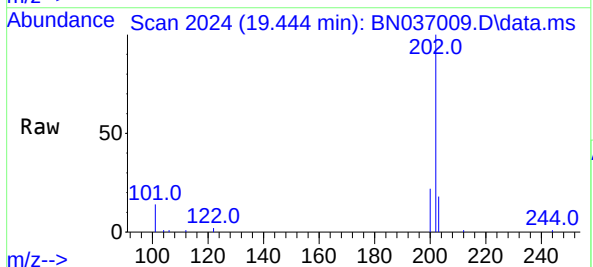
APPROVED

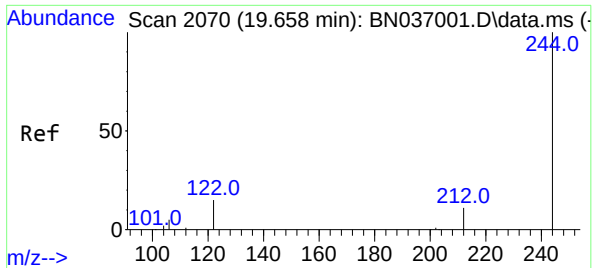
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#30
Pyrene
Concen: 0.41 ng
RT: 19.444 min Scan# 2024
Delta R.T. 0.000 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.1	25.7
203	17.7	14.2	21.4





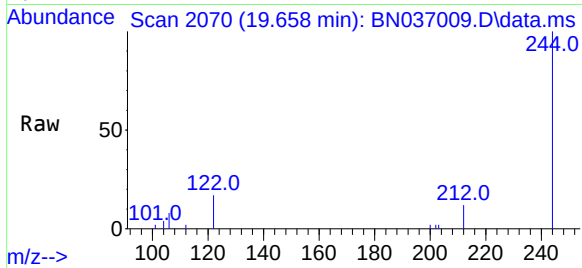
#31
Terphenyl-d14
Concen: 0.42 ng
RT: 19.658 min Scan# 2070
Delta R.T. 0.000 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

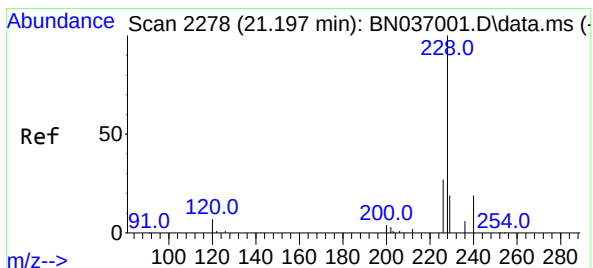
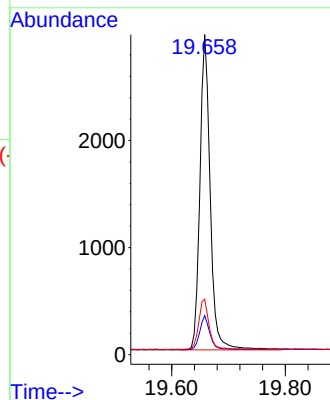


Tgt Ion:244 Resp: 369
Ion Ratio Lower Upper
244 100
212 12.2 9.7 14.5
122 17.3 13.4 20.0

Manual Integrations

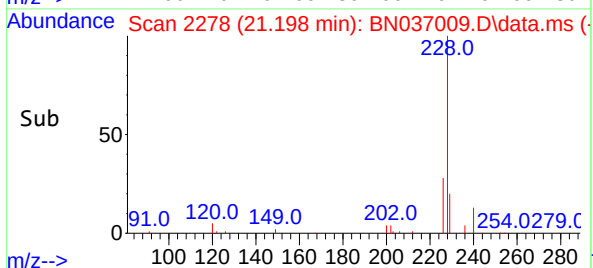
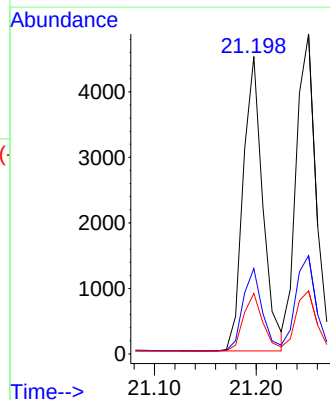
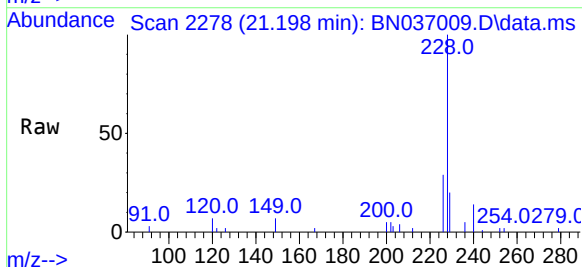
APPROVED

Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025

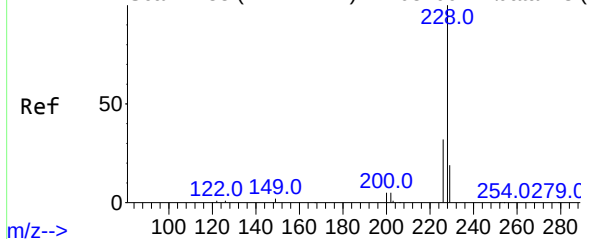


#32
Benzo(a)anthracene
Concen: 0.39 ng
RT: 21.198 min Scan# 2278
Delta R.T. 0.000 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31

Tgt Ion:228 Resp: 6036
Ion Ratio Lower Upper
228 100
226 28.7 22.2 33.4
229 20.4 16.0 24.0



Abundance Scan 2283 (21.242 min): BN037001.D\data.ms (-



#33

Chrysene

Concen: 0.42 ng

RT: 21.251 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037009.D

Acq: 14 May 2025 10:31

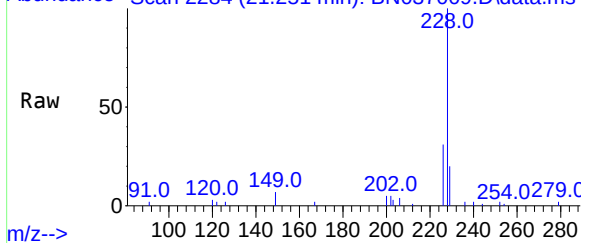
Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Abundance Scan 2284 (21.251 min): BN037009.D\data.ms (-



Tgt Ion:228 Resp: 684

Ion Ratio Lower Upper

228 100

226 30.8 26.3 39.5

229 19.8 16.2 24.2

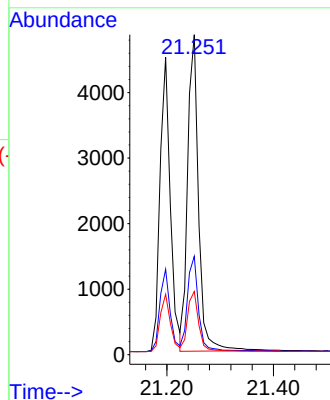
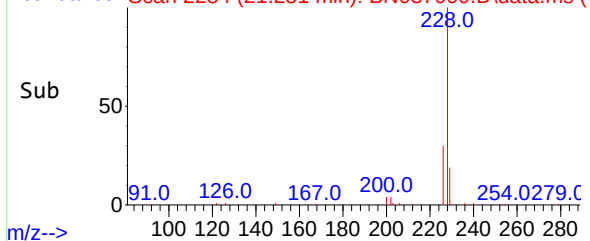
Manual Integrations

APPROVED

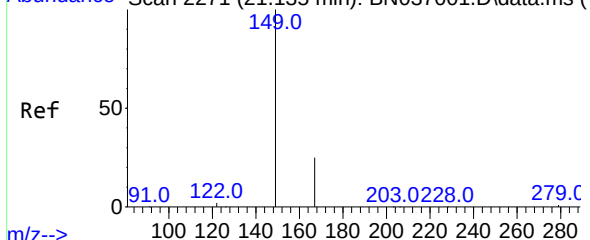
Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025

Abundance Scan 2284 (21.251 min): BN037009.D\data.ms (-



Abundance Scan 2271 (21.135 min): BN037001.D\data.ms (-



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.38 ng

RT: 21.144 min Scan# 2272

Delta R.T. 0.009 min

Lab File: BN037009.D

Acq: 14 May 2025 10:31

Tgt Ion:149 Resp: 3623

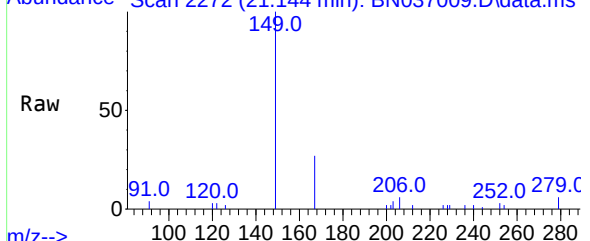
Ion Ratio Lower Upper

149 100

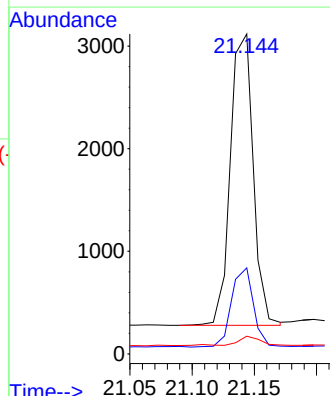
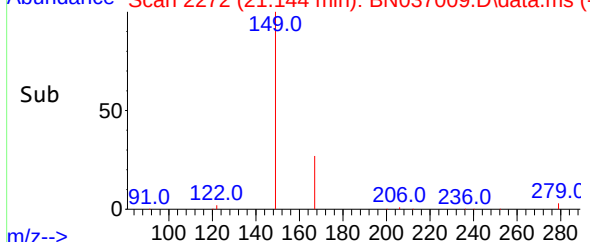
167 26.2 20.6 30.8

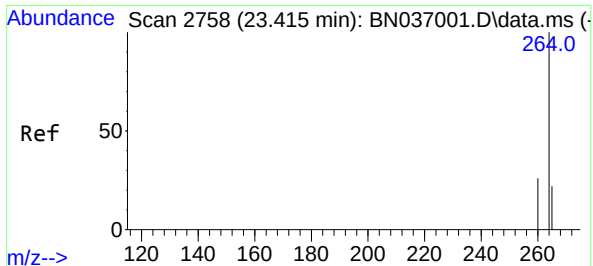
279 3.0 2.6 3.8

Abundance Scan 2272 (21.144 min): BN037009.D\data.ms (-



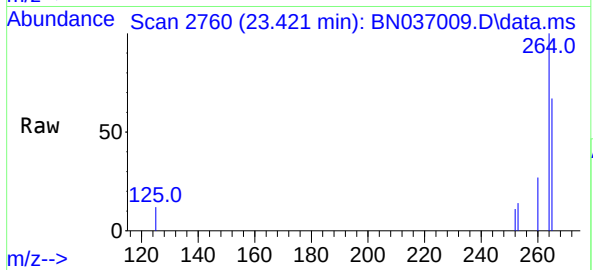
Abundance Scan 2272 (21.144 min): BN037009.D\data.ms (-





#35
Perylene-d12
Concen: 0.40 ng
RT: 23.421 min Scan# 21
Delta R.T. 0.006 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31

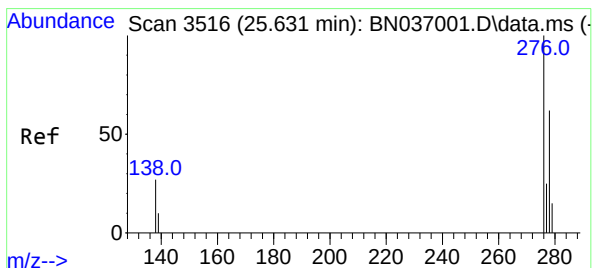
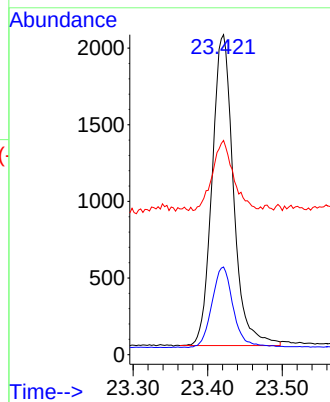
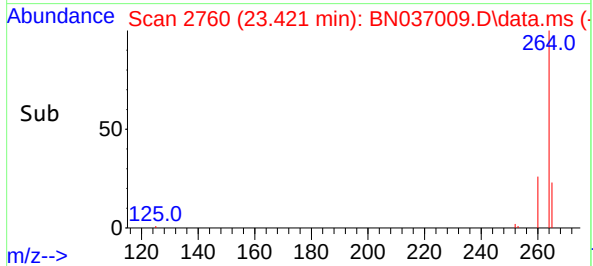
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4



Tgt Ion:264 Resp: 404
Ion Ratio Lower Upper
264 100
260 27.4 21.9 32.9
265 67.0 51.6 77.4

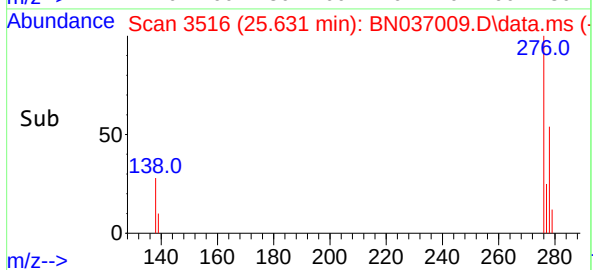
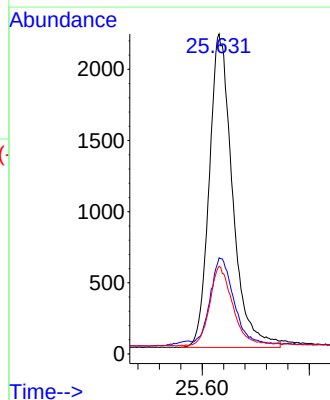
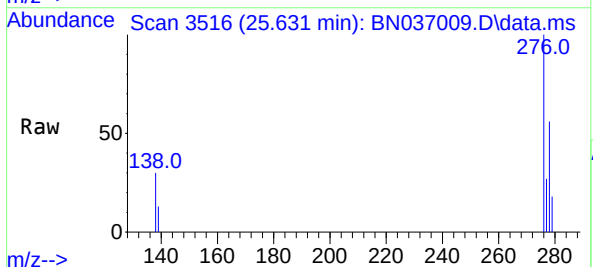
Manual Integrations
APPROVED

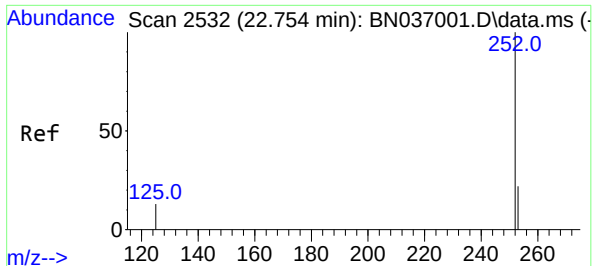
Reviewed By :Rahul Chavli 05/15/2025
Supervised By :Jagrut Upadhyay 05/15/2025



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.40 ng
RT: 25.631 min Scan# 3516
Delta R.T. 0.000 min
Lab File: BN037009.D
Acq: 14 May 2025 10:31

Tgt Ion:276 Resp: 6635
Ion Ratio Lower Upper
276 100
138 27.6 22.7 34.1
277 24.7 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.39 ng

RT: 22.758 min Scan# 2533

Delta R.T. 0.003 min

Lab File: BN037009.D

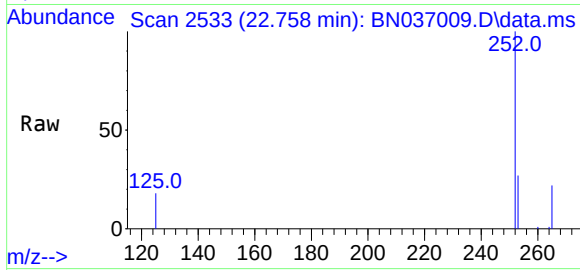
Acq: 14 May 2025 10:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



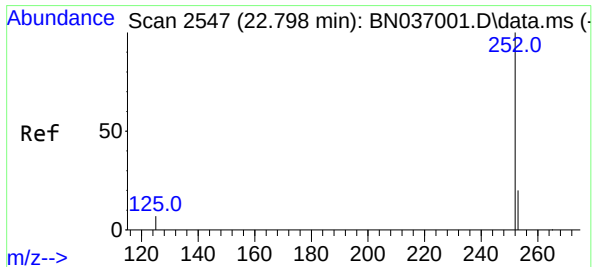
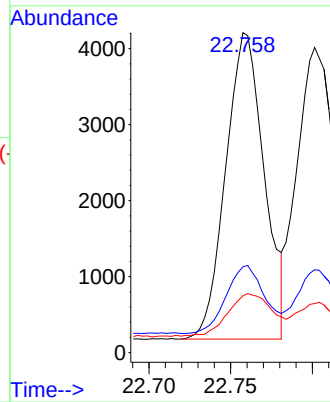
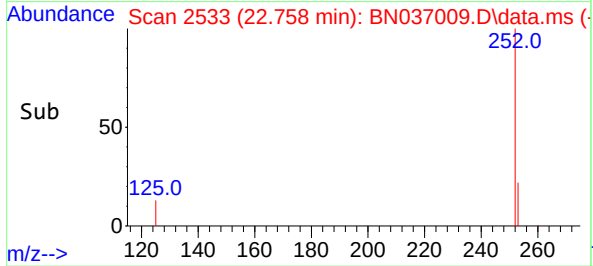
Tgt Ion:	252	Resp:	659
Ion	Ratio	Lower	Upper
252	100		
253	26.8	21.8	32.6
125	17.8	14.6	21.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#38

Benzo(k)fluoranthene

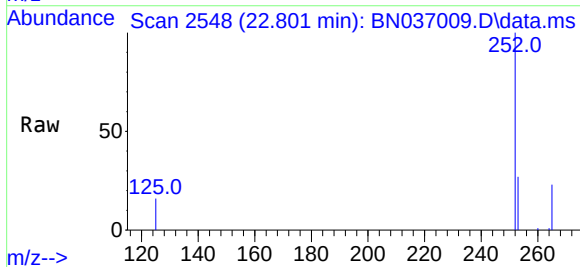
Concen: 0.40 ng

RT: 22.801 min Scan# 2548

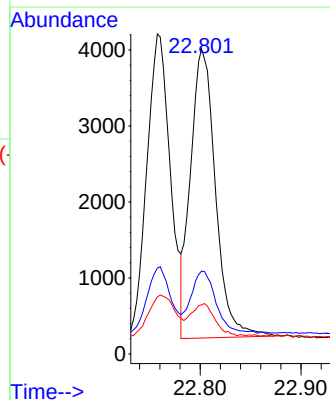
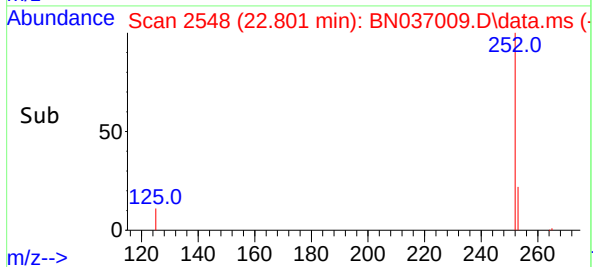
Delta R.T. 0.003 min

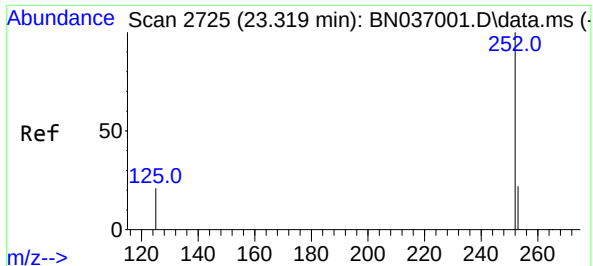
Lab File: BN037009.D

Acq: 14 May 2025 10:31



Tgt Ion:	252	Resp:	6556
Ion	Ratio	Lower	Upper
252	100		
253	27.2	21.4	32.2
125	16.1	13.0	19.4





#39

Benzo(a)pyrene

Concen: 0.39 ng

RT: 23.322 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037009.D

Acq: 14 May 2025 10:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

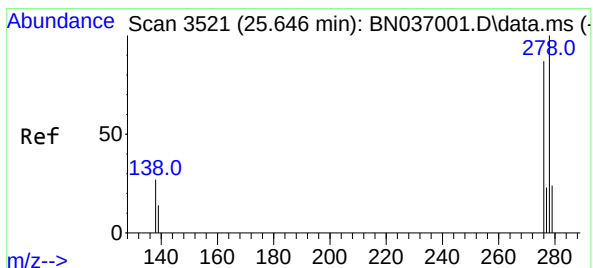
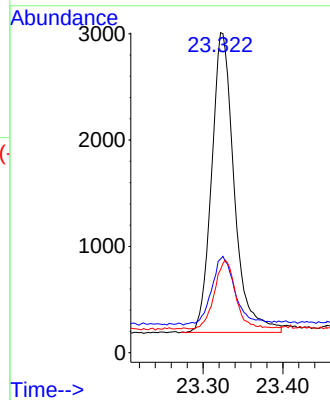
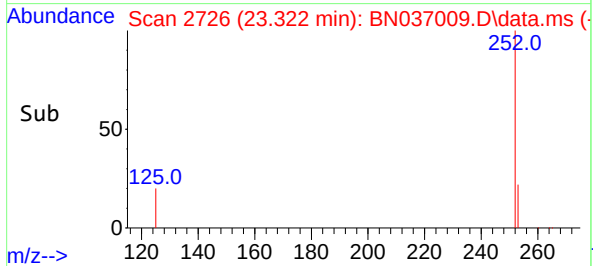
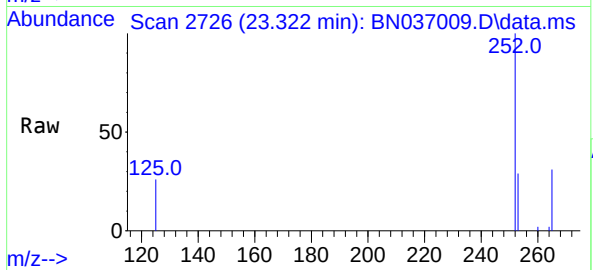
Tgt Ion:	252	Resp:	553
Ion Ratio	Lower	Upper	
252	100		
253	29.2	23.8	35.6
125	25.9	21.8	32.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.40 ng

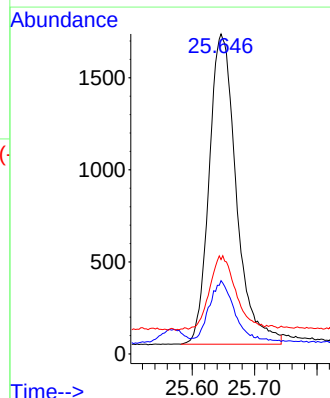
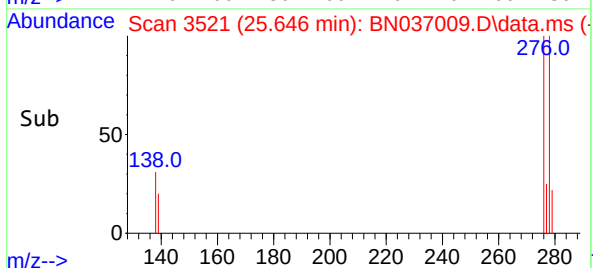
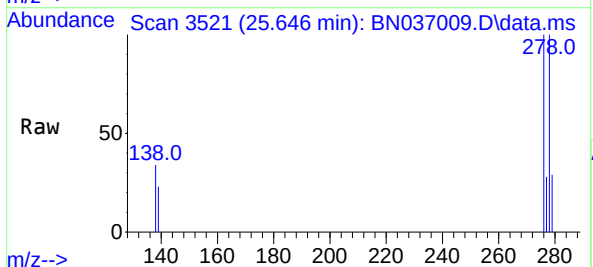
RT: 25.646 min Scan# 3521

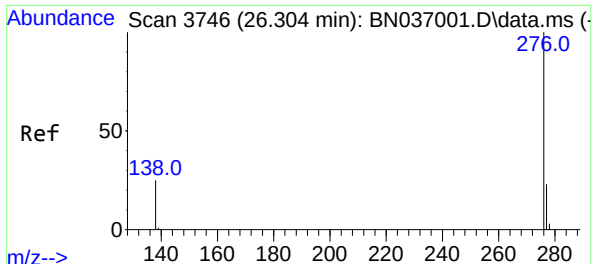
Delta R.T. 0.000 min

Lab File: BN037009.D

Acq: 14 May 2025 10:31

Tgt Ion:	278	Resp:	5097
Ion Ratio	Lower	Upper	
278	100		
139	22.9	17.4	26.0
279	29.5	24.6	37.0





#41

Benzo(g,h,i)perylene

Concen: 0.41 ng

RT: 26.310 min Scan# 31

Delta R.T. 0.006 min

Lab File: BN037009.D

Acq: 14 May 2025 10:31

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:276 Resp: 576

Ion Ratio Lower Upper

276 100

277 27.1 20.2 30.4

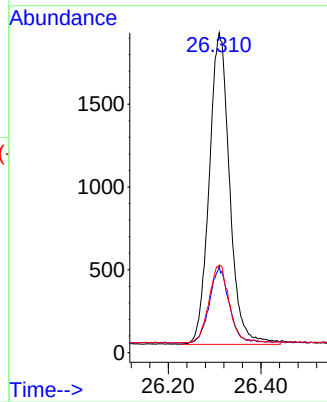
138 27.3 22.0 33.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 05/15/2025

Supervised By :Jagrut Upadhyay 05/15/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037009.D
 Acq On : 14 May 2025 10:31
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: May 14 11:28:35 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 11:26:32 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	94	0.00
2	1,4-Dioxane	0.491	0.448	8.8	82	0.00
3	n-Nitrosodimethylamine	1.054	0.986	6.5	95	0.00
4 S	2-Fluorophenol	1.048	1.078	-2.9	90	0.00
5 S	Phenol-d6	1.311	1.303	0.6	89	0.00
6	bis(2-Chloroethyl)ether	1.207	1.141	5.5	93	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	94	-0.01
8 S	Nitrobenzene-d5	0.436	0.407	6.7	96	-0.01
9	Naphthalene	1.182	1.143	3.3	94	0.00
10	Hexachlorobutadiene	0.248	0.249	-0.4	96	-0.01
11 SURR	2-Methylnaphthalene-d10	0.563	0.552	2.0	94	0.00
12	2-Methylnaphthalene	0.760	0.746	1.8	95	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	95	0.00
14 S	2,4,6-Tribromophenol	0.176	0.176	0.0	94	0.00
15 S	2-Fluorobiphenyl	1.832	1.850	-1.0	93	0.00
16	Acenaphthylene	1.947	1.886	3.1	95	-0.01
17	Acenaphthene	1.272	1.258	1.1	97	0.00
18	Fluorene	1.669	1.651	1.1	96	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	96	0.00
20	4,6-Dinitro-2-methylphenol	0.090	0.082	8.9	106	0.00
21	4-Bromophenyl-phenylether	0.253	0.252	0.4	96	0.00
22	Hexachlorobenzene	0.270	0.284	-5.2	96	0.00
23	Atrazine	0.220	0.211	4.1	96	0.00
24	Pentachlorophenol	0.149	0.142	4.7	96	0.00
25	Phenanthrene	1.307	1.314	-0.5	97	0.00
26	Anthracene	1.190	1.155	2.9	95	0.00
27 SURR	Fluoranthene-d10	1.097	1.065	2.9	94	0.00
28	Fluoranthene	1.562	1.510	3.3	96	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	93	0.00
30	Pyrene	1.711	1.769	-3.4	95	0.00
31 S	Terphenyl-d14	0.856	0.892	-4.2	95	0.00
32	Benzo(a)anthracene	1.506	1.459	3.1	91	0.00
33	Chrysene	1.593	1.655	-3.9	95	0.00
34	Bis(2-ethylhexyl)phthalate	0.927	0.876	5.5	90	0.00
35 I	Perylene-d12	1.000	1.000	0.0	89	0.00
36	Indeno(1,2,3-cd)pyrene	1.634	1.641	-0.4	89	0.00
37	Benzo(b)fluoranthene	1.659	1.632	1.6	91	0.00
38	Benzo(k)fluoranthene	1.639	1.622	1.0	88	0.00
39 C	Benzo(a)pyrene	1.407	1.369	2.7	89	0.00
40	Dibenzo(a,h)anthracene	1.272	1.261	0.9	89	0.00
41	Benzo(g,h,i)perylene	1.383	1.425	-3.0	90	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
 Data File : BN037009.D
 Acq On : 14 May 2025 10:31
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 LabSampleId :
 SSTDCCC0.4

Quant Time: May 14 11:28:35 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN051425.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed May 14 11:26:32 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	94	0.00
2	1,4-Dioxane	0.400	0.365	8.8	82	0.00
3	n-Nitrosodimethylamine	0.400	0.374	6.5	95	0.00
4 S	2-Fluorophenol	0.400	0.412	-3.0	90	0.00
5 S	Phenol-d6	0.400	0.398	0.5	89	0.00
6	bis(2-Chloroethyl)ether	0.400	0.378	5.5	93	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	94	-0.01
8 S	Nitrobenzene-d5	0.400	0.373	6.8	96	-0.01
9	Naphthalene	0.400	0.387	3.3	94	0.00
10	Hexachlorobutadiene	0.400	0.401	-0.3	96	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.392	2.0	94	0.00
12	2-Methylnaphthalene	0.400	0.392	2.0	95	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	95	0.00
14 S	2,4,6-Tribromophenol	0.400	0.400	0.0	94	0.00
15 S	2-Fluorobiphenyl	0.400	0.404	-1.0	93	0.00
16	Acenaphthylene	0.400	0.387	3.3	95	-0.01
17	Acenaphthene	0.400	0.395	1.3	97	0.00
18	Fluorene	0.400	0.396	1.0	96	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	106	0.00
21	4-Bromophenyl-phenylether	0.400	0.399	0.3	96	0.00
22	Hexachlorobenzene	0.400	0.420	-5.0	96	0.00
23	Atrazine	0.400	0.384	4.0	96	0.00
24	Pentachlorophenol	0.400	0.381	4.8	96	0.00
25	Phenanthrene	0.400	0.402	-0.5	97	0.00
26	Anthracene	0.400	0.388	3.0	95	0.00
27 SURR	Fluoranthene-d10	0.400	0.388	3.0	94	0.00
28	Fluoranthene	0.400	0.387	3.3	96	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	93	0.00
30	Pyrene	0.400	0.413	-3.2	95	0.00
31 S	Terphenyl-d14	0.400	0.417	-4.2	95	0.00
32	Benzo(a)anthracene	0.400	0.387	3.3	91	0.00
33	Chrysene	0.400	0.415	-3.7	95	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.378	5.5	90	0.00
35 I	Perylene-d12	0.400	0.400	0.0	89	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.402	-0.5	89	0.00
37	Benzo(b)fluoranthene	0.400	0.393	1.8	91	0.00
38	Benzo(k)fluoranthene	0.400	0.396	1.0	88	0.00
39 C	Benzo(a)pyrene	0.400	0.389	2.8	89	0.00
40	Dibenzo(a,h)anthracene	0.400	0.396	1.0	89	0.00
41	Benzo(g,h,i)perylene	0.400	0.412	-3.0	90	0.00

(#) = Out of Range

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



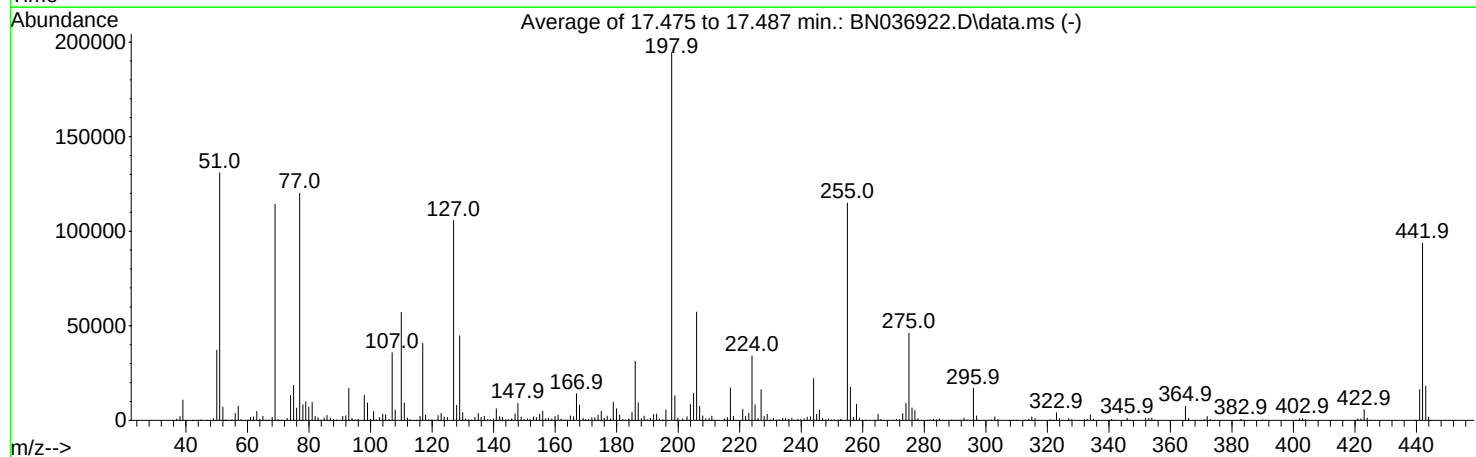
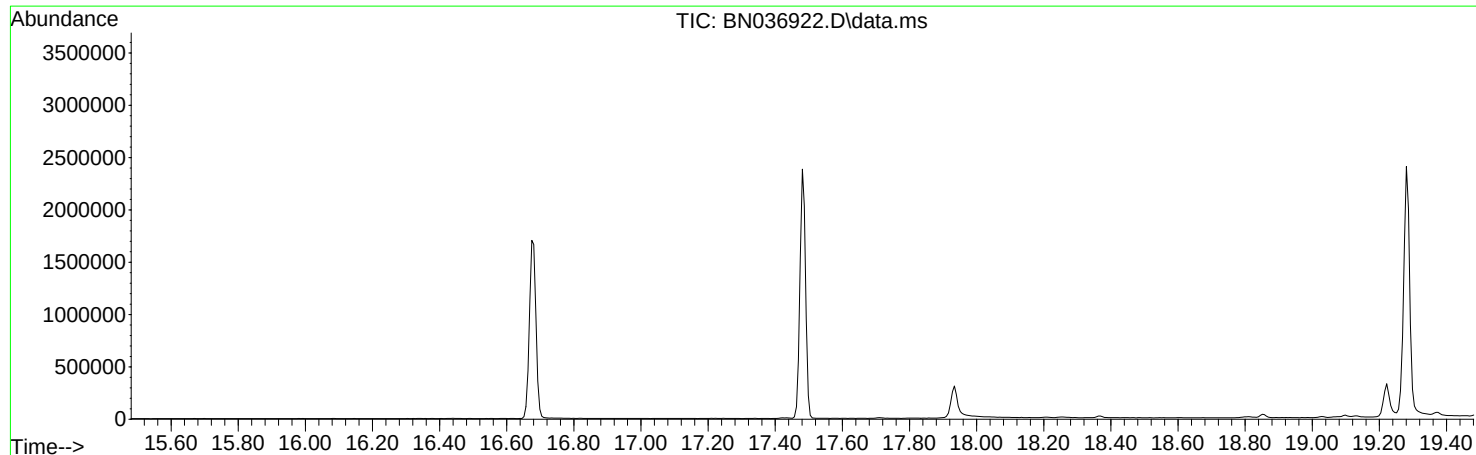
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036922.D
Acq On : 28 Apr 2025 10:56
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-BN042825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Apr 28 15:35:03 2025



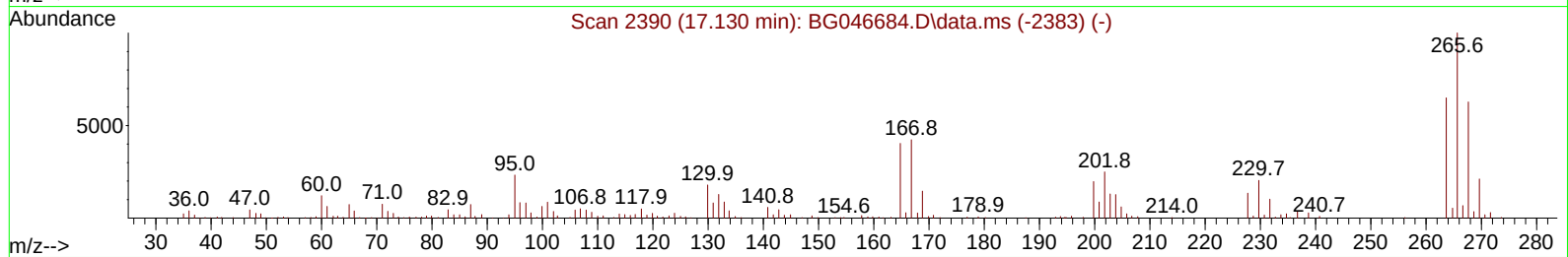
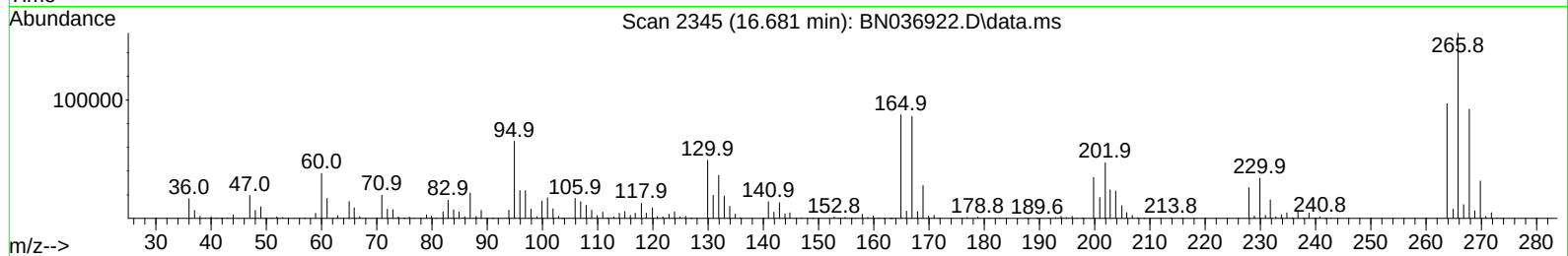
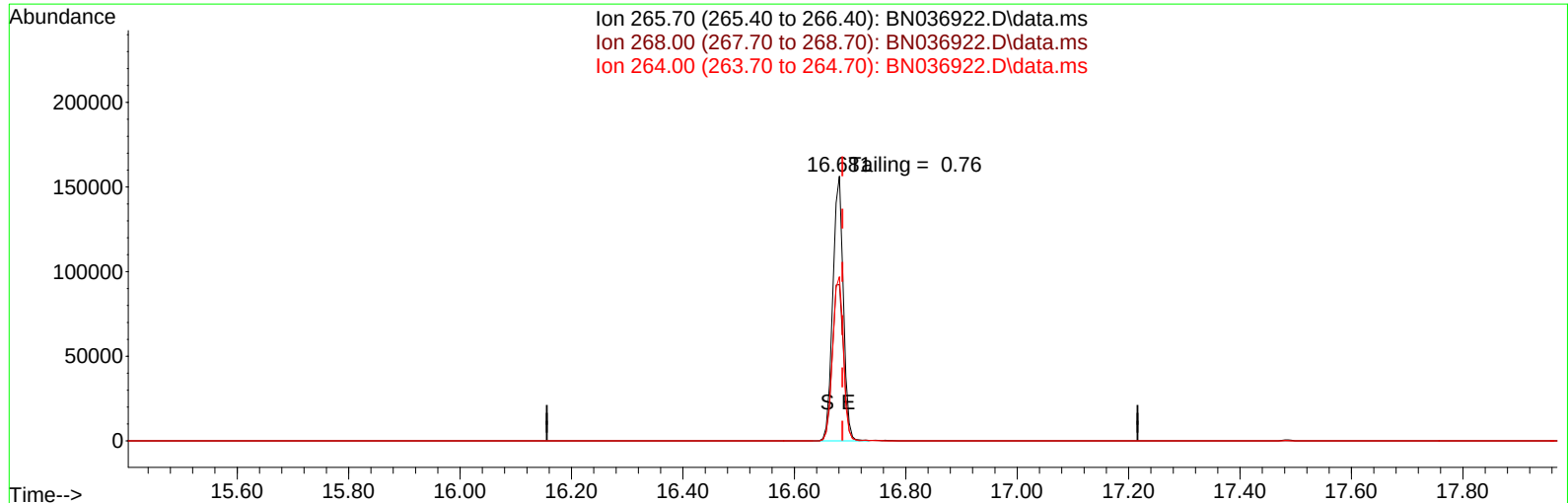
AutoFind: Scans 2480, 2481, 2482; Background Corrected with Scan 2473

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	67.4	130988	PASS
68	69	0.00	2	1.4	1628	PASS
69	198	0.00	100	58.8	114280	PASS
70	69	0.00	2	0.4	478	PASS
127	198	10	80	54.3	105632	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	194475	PASS
199	198	5	9	6.7	12991	PASS
275	198	10	60	23.7	46040	PASS
365	198	1	100	3.8	7407	PASS
441	198	0.01	100	8.4	16253	PASS
442	442	50	100	100.0	93637	PASS
443	442	15	24	19.4	18149	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036922.D
Acq On : 28 Apr 2025 10:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 28 16:10:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 23:51:57 2025
Response via : Initial Calibration



TIC: BN036922.D\data.ms

(70) Pentachlorophenol (C)

16.681min (-0.005) 20278.92 ng

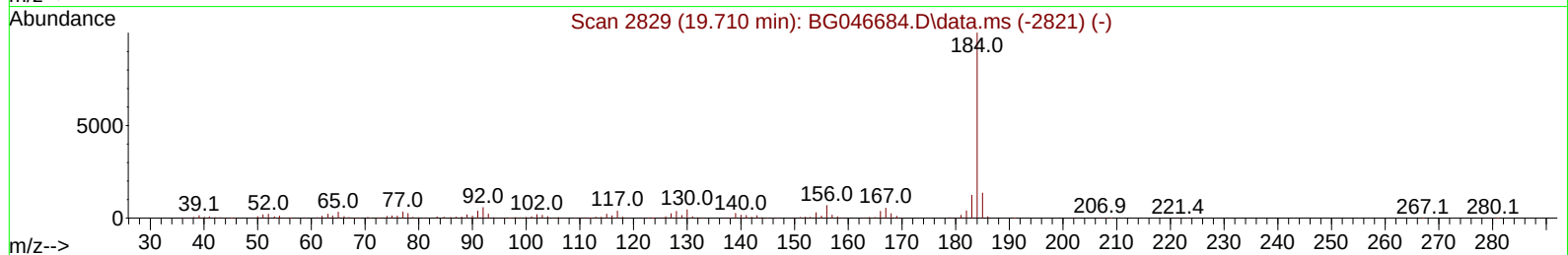
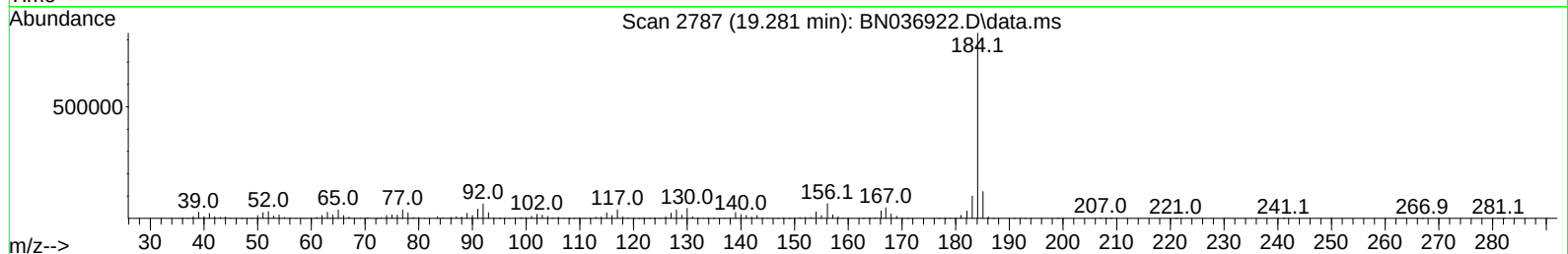
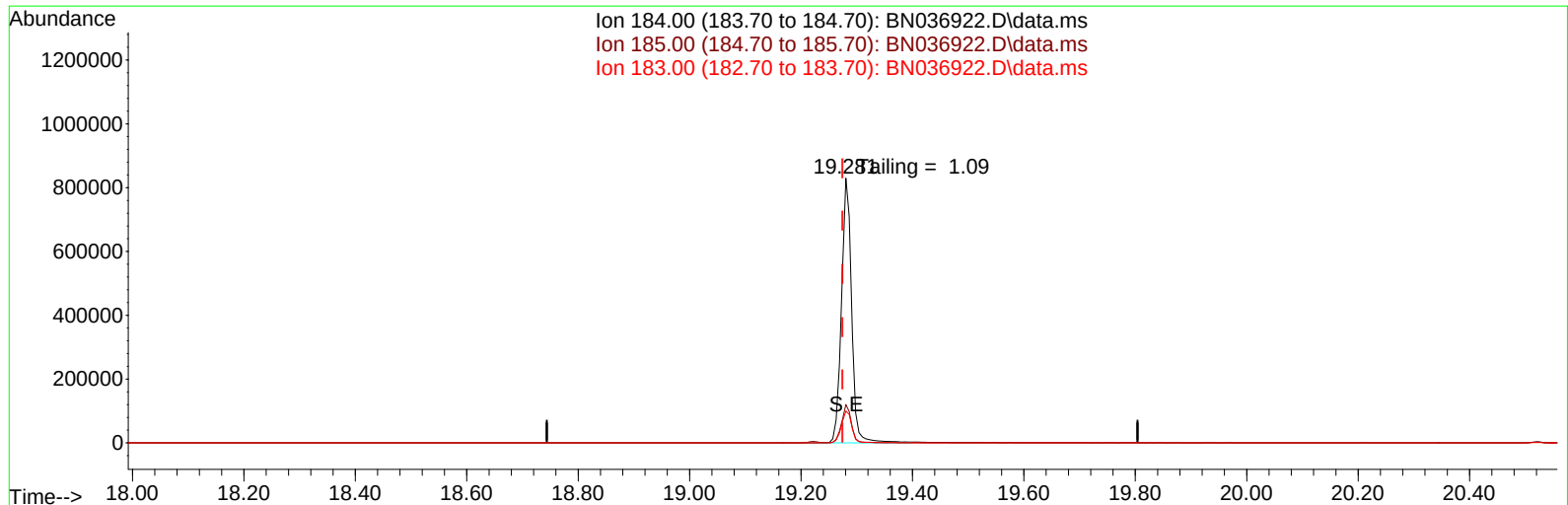
response 204659

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	59.04
264.00	61.60	61.99
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN042825\
Data File : BN036922.D
Acq On : 28 Apr 2025 10:56
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Apr 28 16:10:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 23:51:57 2025
Response via : Initial Calibration



TIC: BN036922.D\data.ms

(77) Benzidine

19.281min (+ 0.006) 0.00 ng

response 1065531

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.51
183.00	13.20	12.08
0.00	0.00	0.00

Instrument :
 BNA_N
 ClientSampleId :
 DFTPP

DDT Breakdown

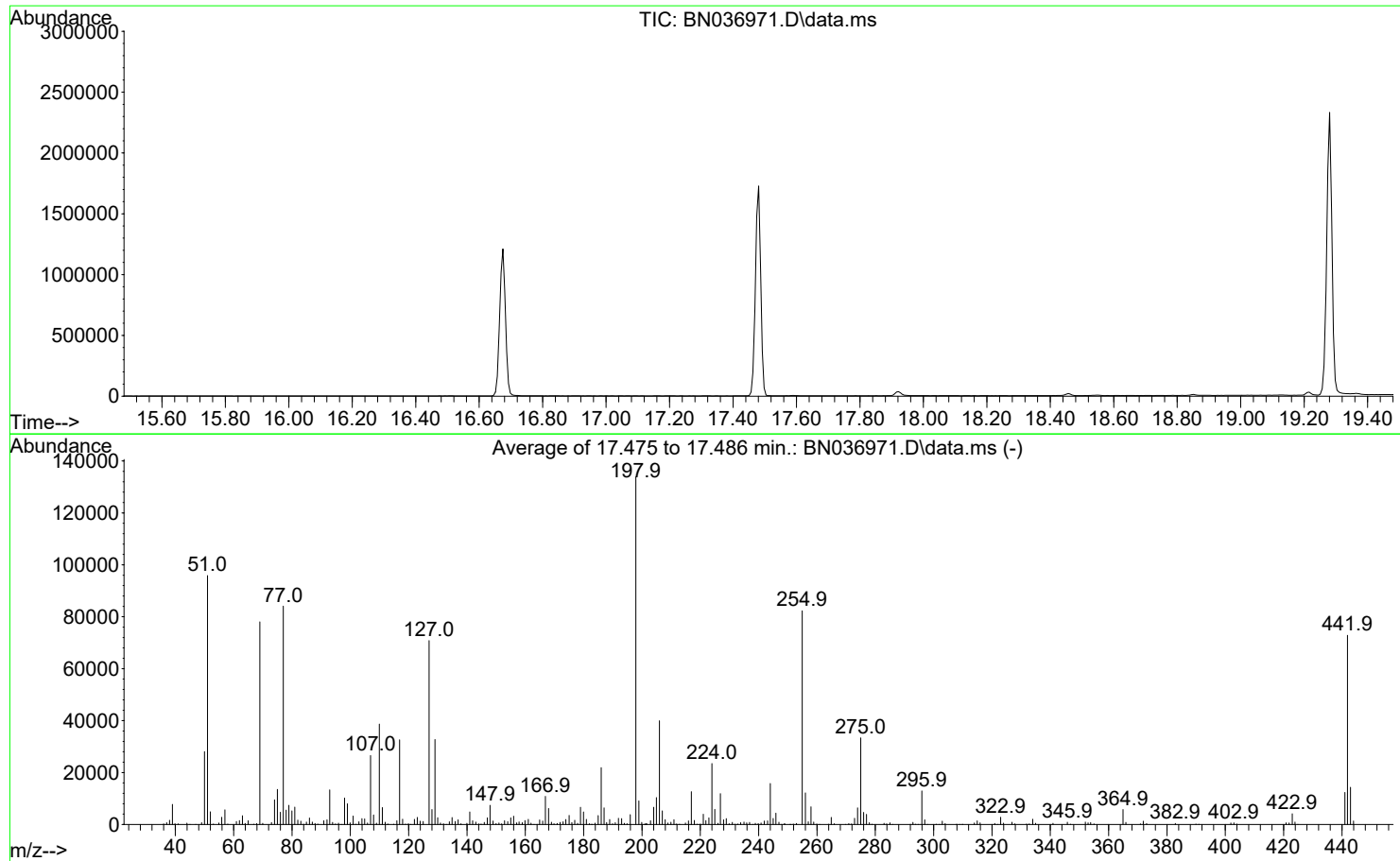
Date	Instrument Name	DFTPP Data File
4/28/2025	BNA_N	<u>BN036922.D</u>
Compound Name	Response	Retention Time
DDT	653394	20.522
DDD	6192	20.133
DDE	0	19.621
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
6192	659586	0.94

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050825\
Data File : BN036971.D
Acq On : 08 May 2025 13:49
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-BN042825.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Apr 28 15:35:03 2025



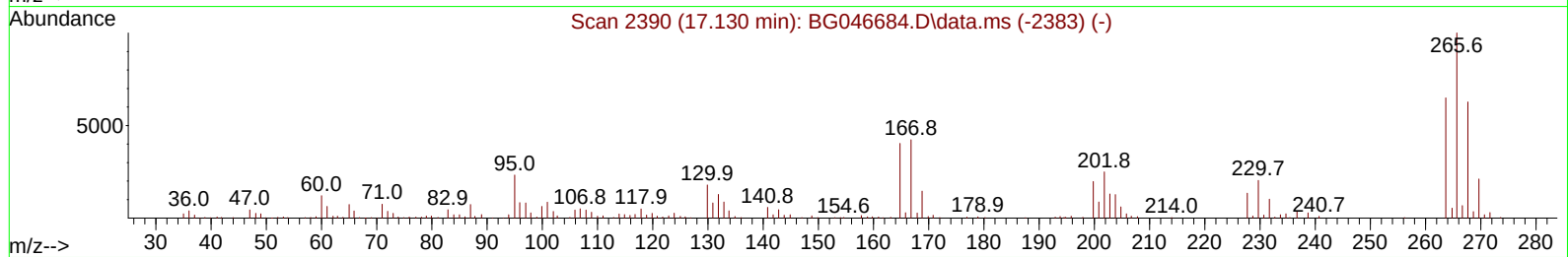
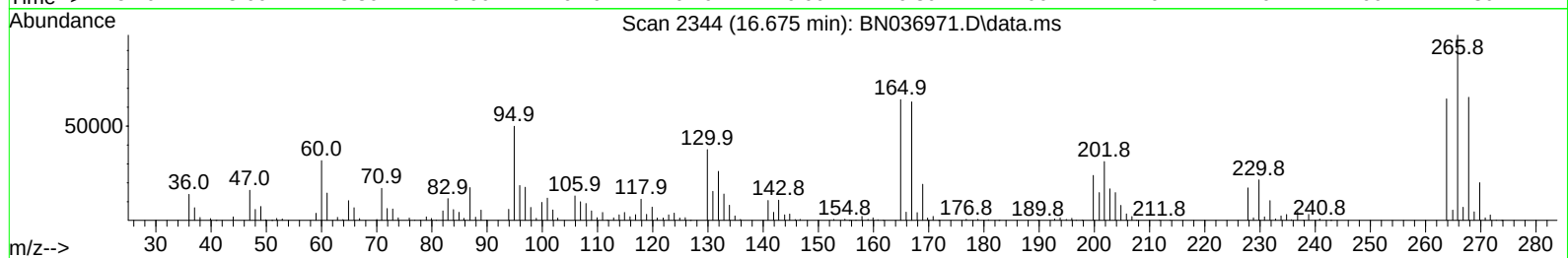
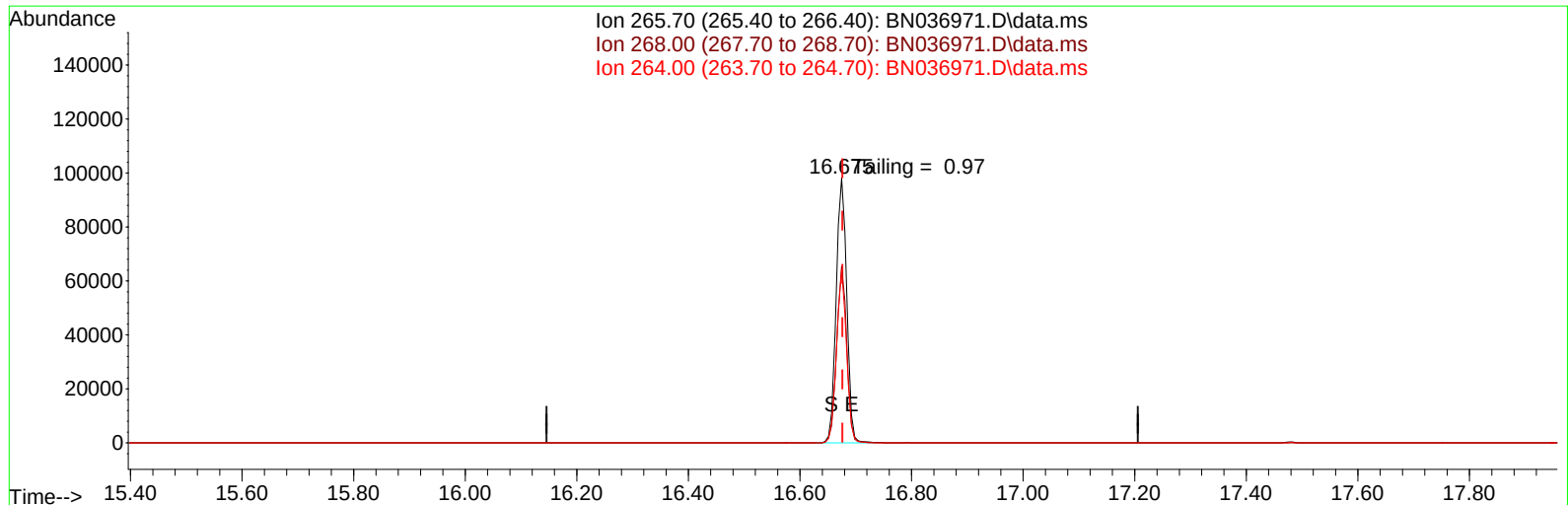
AutoFind: Scans 2480, 2481, 2482; Background Corrected with Scan 2473

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	71.6	95861	PASS
68	69	0.00	2	0.4	347	PASS
69	198	0.00	100	58.3	78027	PASS
70	69	0.00	2	0.6	481	PASS
127	198	10	80	52.9	70819	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	133899	PASS
199	198	5	9	6.8	9104	PASS
275	198	10	60	24.9	33392	PASS
365	198	1	100	4.3	5794	PASS
441	198	0.01	100	9.2	12369	PASS
442	442	50	100	100.0	72864	PASS
443	442	15	24	19.7	14358	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050825\
Data File : BN036971.D
Acq On : 08 May 2025 13:49
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: May 08 17:01:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 23:51:57 2025
Response via : Initial Calibration



TIC: BN036971.D\data.ms

(70) Pentachlorophenol (C)

16.675min (-0.001) 17886.24 ng

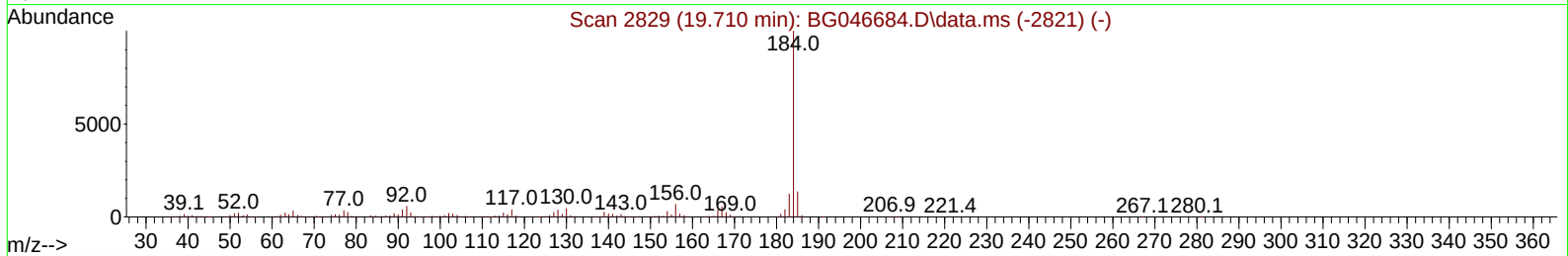
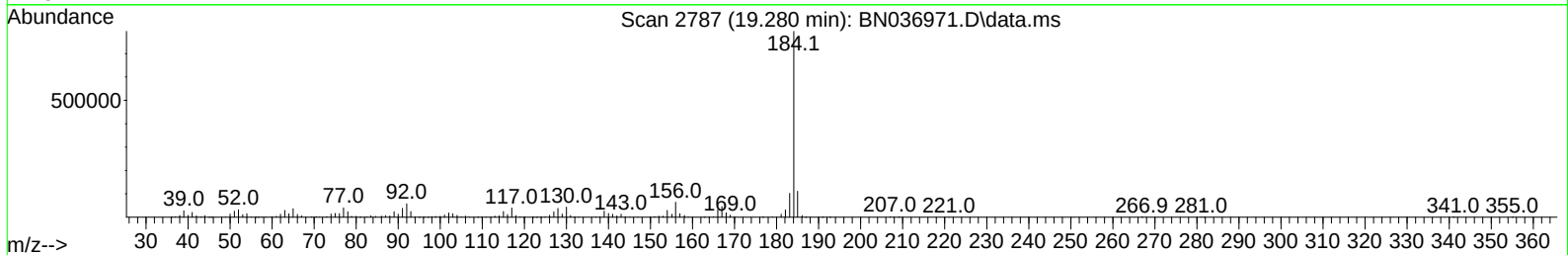
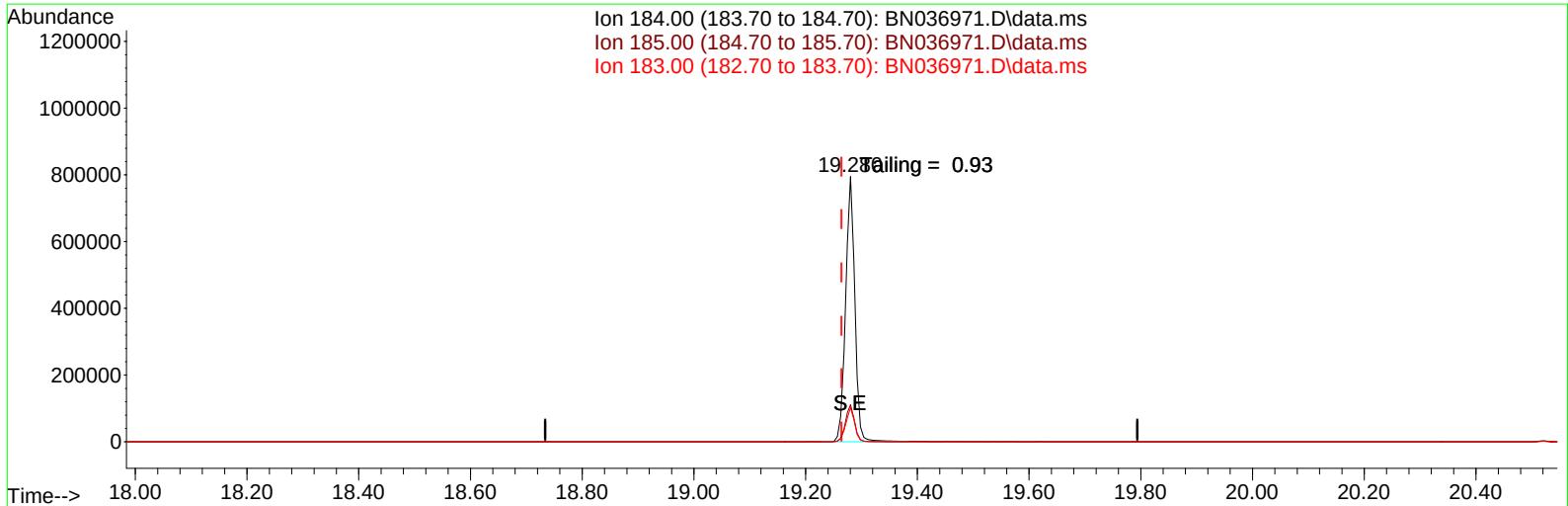
response 128997

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	66.51
264.00	61.60	65.67
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050825\
Data File : BN036971.D
Acq On : 08 May 2025 13:49
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: May 08 17:01:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Apr 11 23:51:57 2025
Response via : Initial Calibration



TIC: BN036971.D\data.ms

(77) Benzidine

19.280min (+ 0.016) 0.00 ng

response 917971

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.00
183.00	13.20	12.91
0.00	0.00	0.00

Instrument :
 BNA_N
 ClientSampleId :
 DFTPP

DDT Breakdown

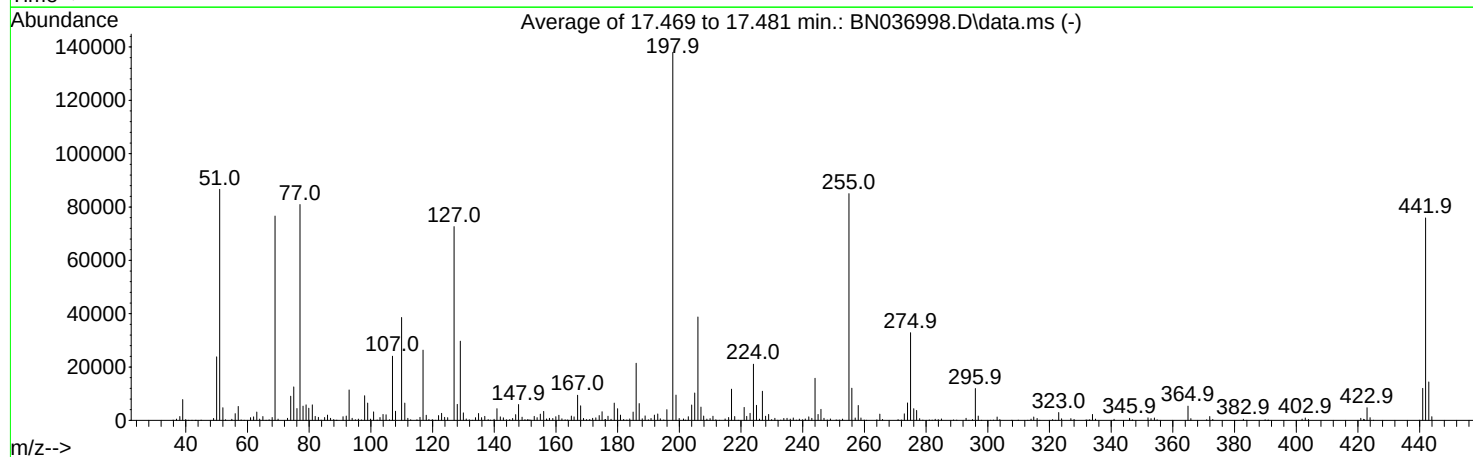
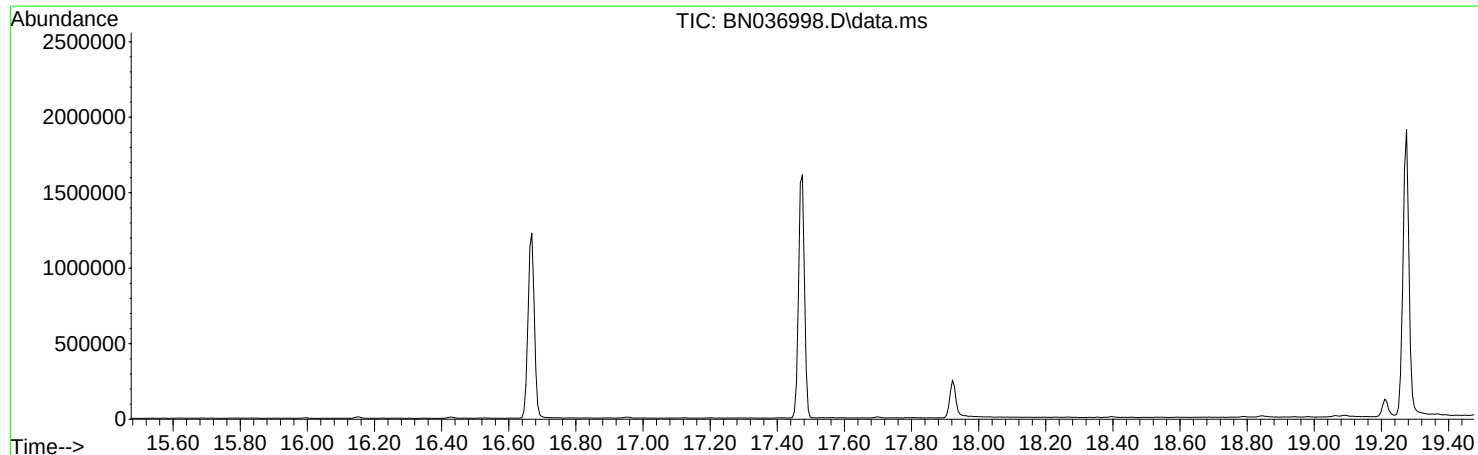
Date	Instrument Name	DFTPP Data File
5/8/2025	BNA_N	<u>BN036971.D</u>
Compound Name	Response	Retention Time
DDT	487037	20.522
DDD	4120	20.133
DDE	63	19.569
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
4183	491220	0.85

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN036998.D
Acq On : 13 May 2025 17:02
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-BN051425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed May 14 00:45:40 2025



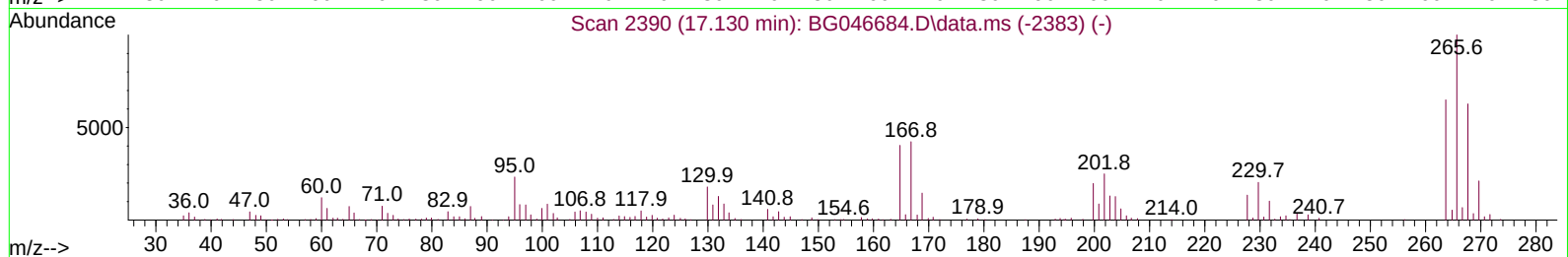
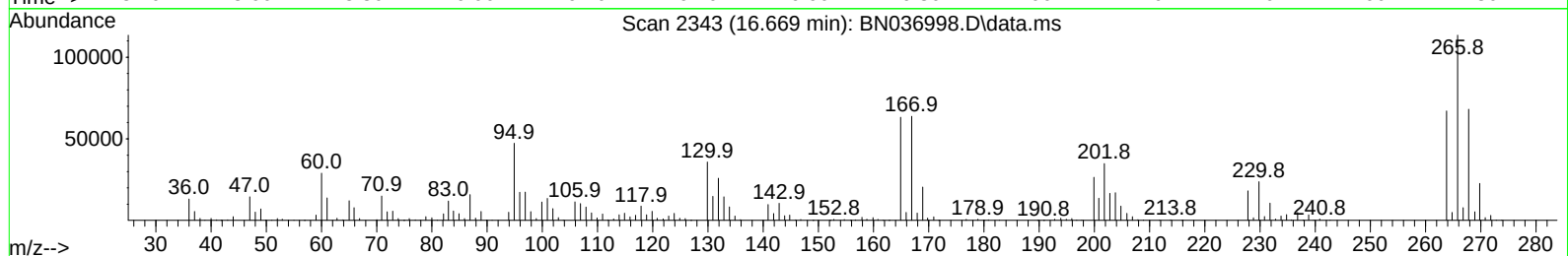
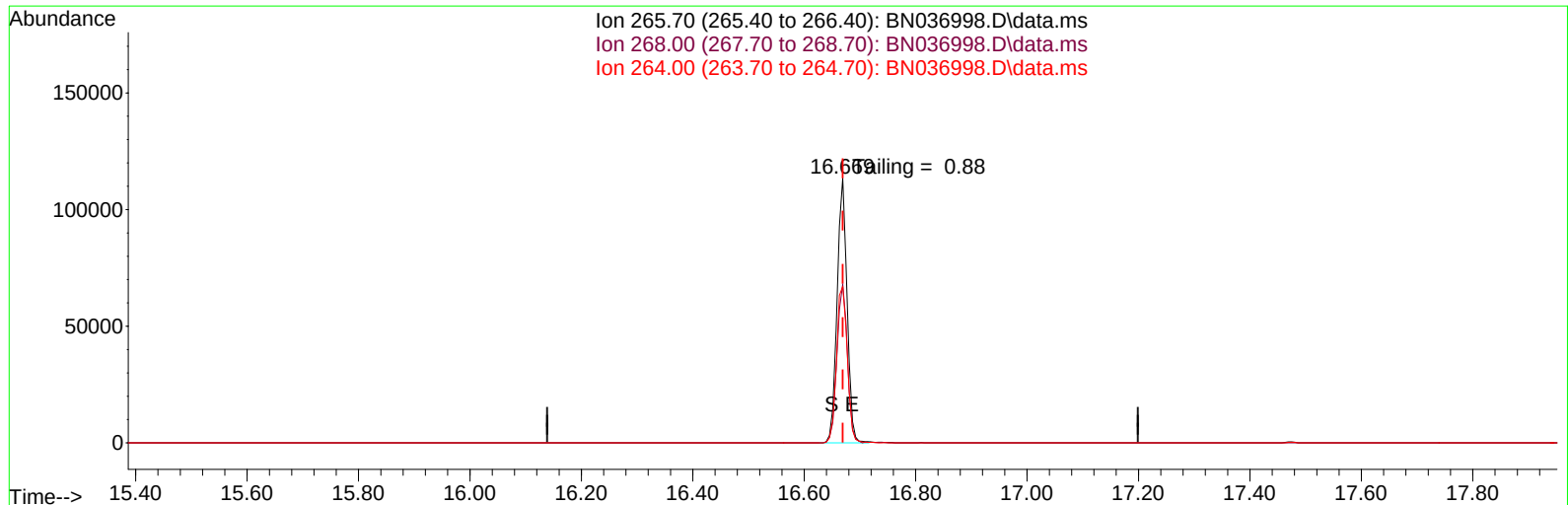
AutoFind: Scans 2479, 2480, 2481; Background Corrected with Scan 2472

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	62.8	86619	PASS
68	69	0.00	2	1.4	1066	PASS
69	198	0.00	100	55.6	76627	PASS
70	69	0.00	2	0.6	478	PASS
127	198	10	80	52.7	72651	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	137931	PASS
199	198	5	9	6.9	9502	PASS
275	198	10	60	23.8	32893	PASS
365	198	1	100	3.9	5315	PASS
441	198	0.01	100	8.7	12010	PASS
442	442	50	100	100.0	75872	PASS
443	442	15	24	19.0	14396	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN036998.D
Acq On : 13 May 2025 17:02
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: May 14 01:22:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 01:22:17 2025
Response via : Initial Calibration



TIC: BN036998.D\data.ms

(70) Pentachlorophenol (C)

16.669min (0.000) 18563.73 ng

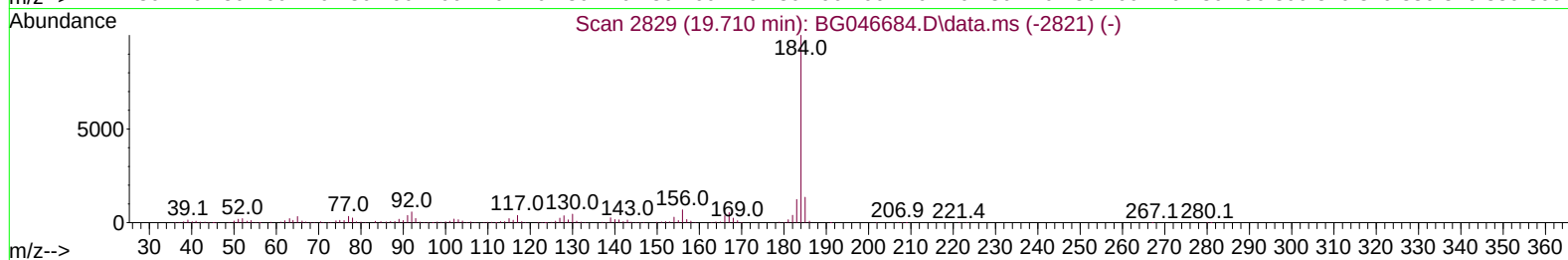
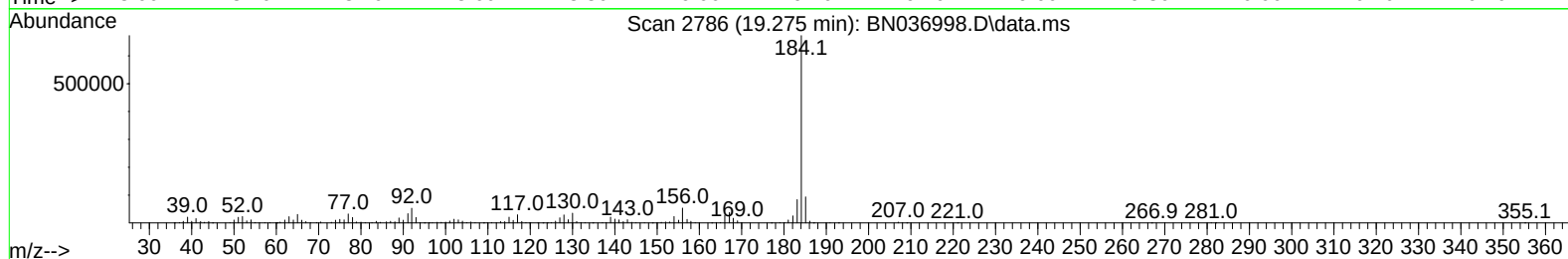
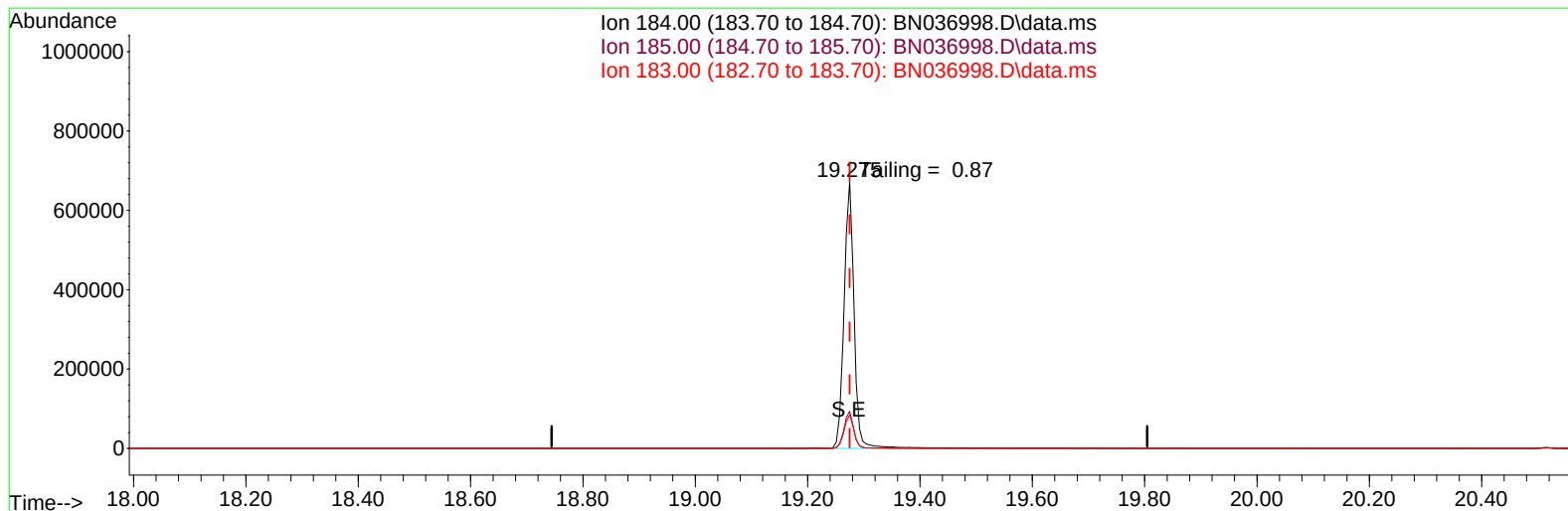
response 141750

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	60.06
264.00	61.60	59.13
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN036998.D
Acq On : 13 May 2025 17:02
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: May 14 01:22:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 01:22:17 2025
Response via : Initial Calibration



TIC: BN036998.D\data.ms

(77) Benzidine

19.275min (0.000) 0.00 ng

response 833154

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.89
183.00	13.20	12.48
0.00	0.00	0.00

DDT Breakdown

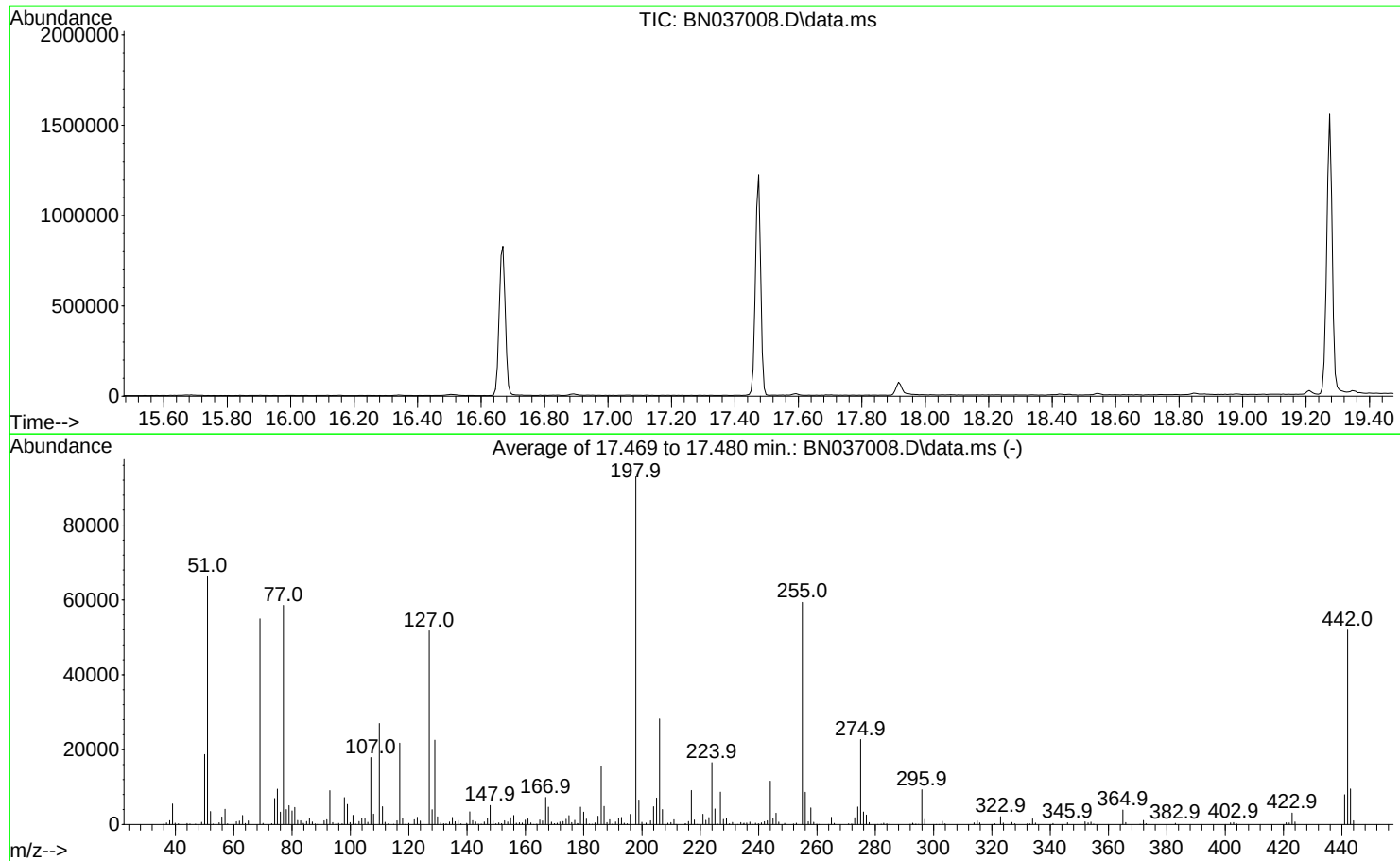
Date	Instrument Name	DFTPP Data File
5/14/2025	BNA_N	<u>BN036998.D</u>
Compound Name	Response	Retention Time
DDT	424954	20.516
DDD	27353	20.075
DDE	333	19.563
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
27686	452640	6.12

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037008.D
Acq On : 14 May 2025 09:37
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-BN051425.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed May 14 11:26:32 2025



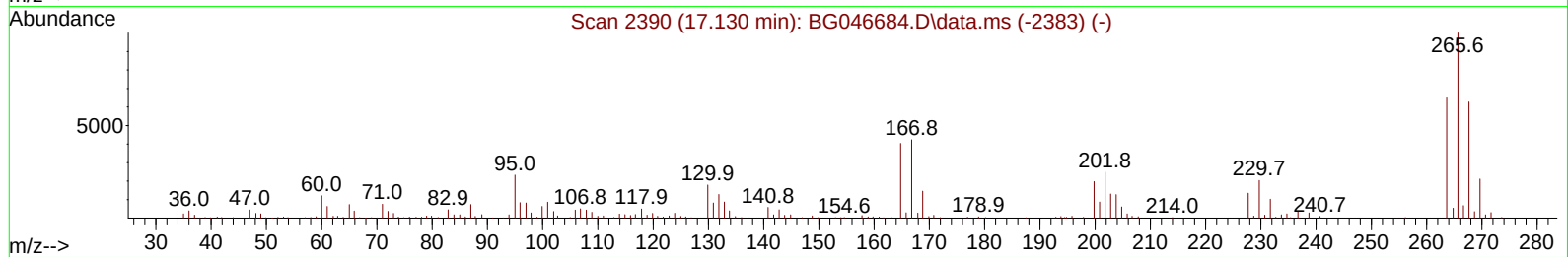
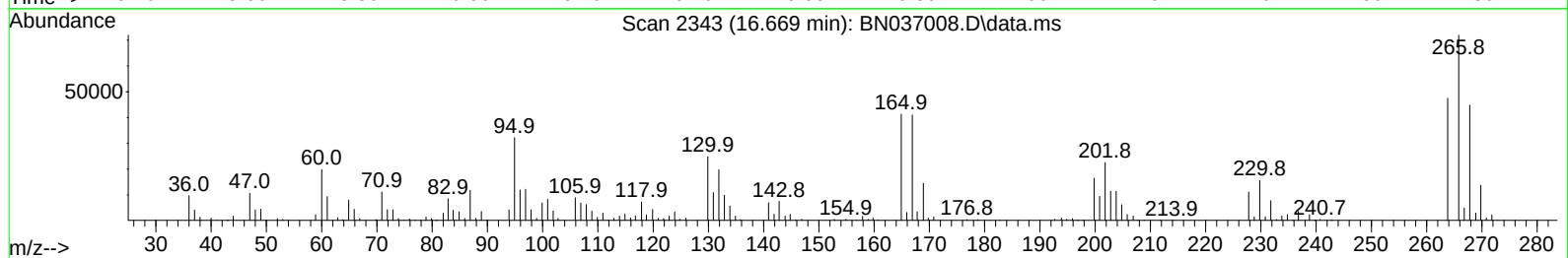
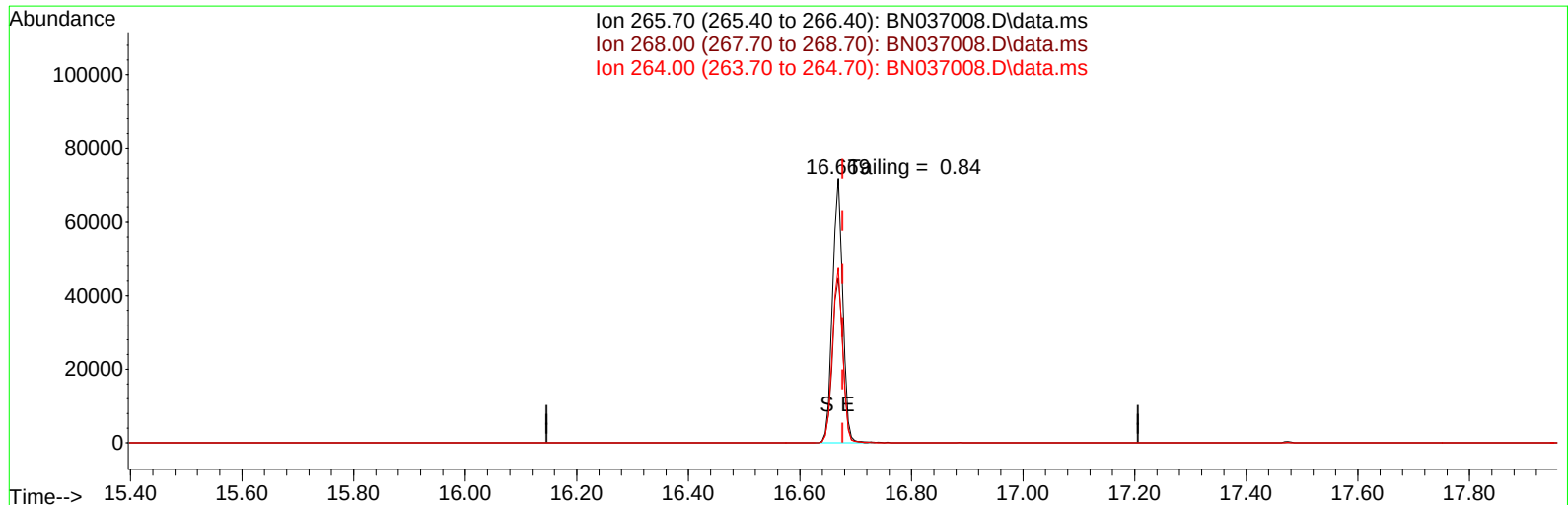
AutoFind: Scans 2479, 2480, 2481; Background Corrected with Scan 2473

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	71.5	66416	PASS
68	69	0.00	2	0.0	0	PASS
69	198	0.00	100	59.2	54957	PASS
70	69	0.00	2	0.6	338	PASS
127	198	10	80	55.7	51752	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	92899	PASS
199	198	5	9	7.0	6530	PASS
275	198	10	60	24.4	22707	PASS
365	198	1	100	4.2	3903	PASS
441	198	0.01	100	8.6	7967	PASS
442	442	50	100	100.0	51981	PASS
443	442	15	24	18.3	9515	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037008.D
Acq On : 14 May 2025 09:37
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: May 14 13:52:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 01:22:17 2025
Response via : Initial Calibration



TIC: BN037008.D\data.ms

(70) Pentachlorophenol (C)

16.669min (-0.007) 17871.17 ng

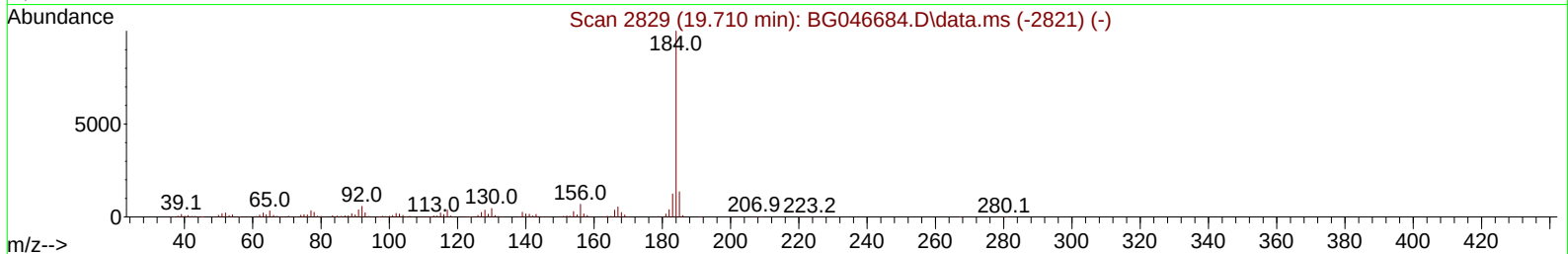
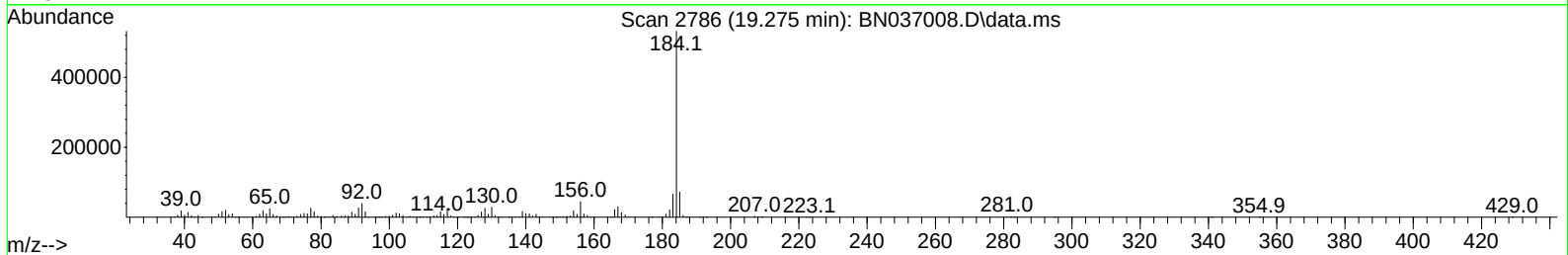
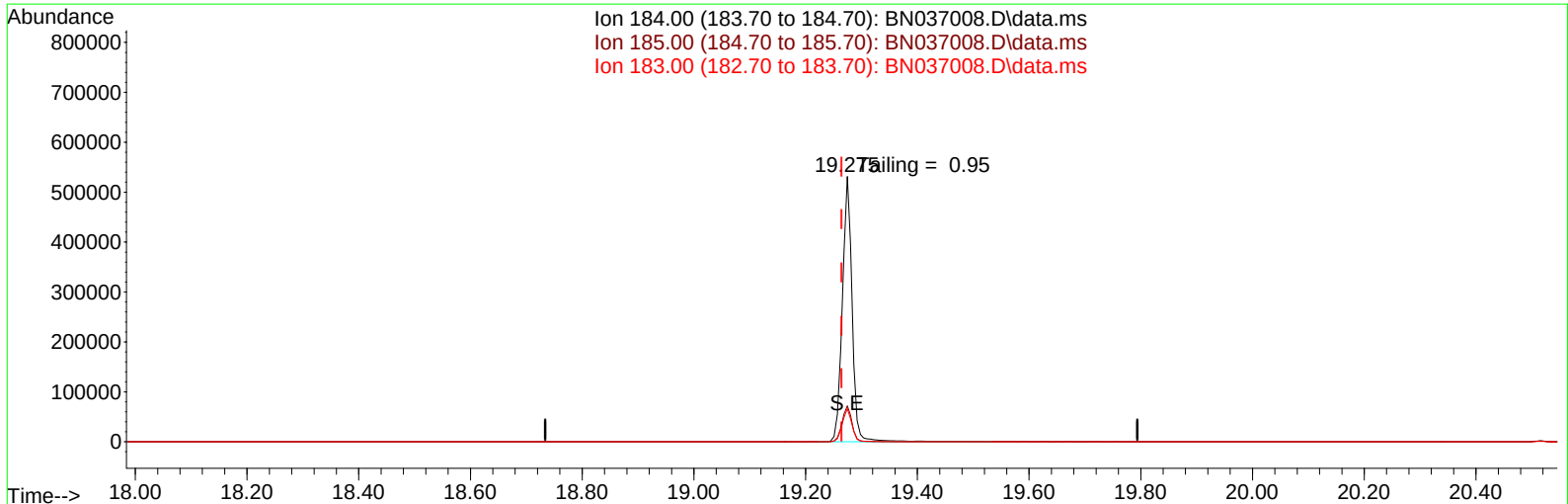
response 91442

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.31
264.00	61.60	66.04
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN051425\
Data File : BN037008.D
Acq On : 14 May 2025 09:37
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: May 14 13:52:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed May 14 01:22:17 2025
Response via : Initial Calibration



TIC: BN037008.D\data.ms

(77) Benzidine

19.275min (+ 0.010) 0.00 ng

response 642035

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.53
183.00	13.20	12.49
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
5/14/2025	BNA_N	<u>BN037008.D</u>
Compound Name	Response	Retention Time
DDT	330267	20.516
DDD	11810	20.074
DDE	264	19.569
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
12074	342341	3.53

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB167915BL	SDG No.:	Q1872
Lab Sample ID:	PB167915BL	Matrix:	SOIL
Analytical Method:	SW8270ESIM	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036973.D	1	05/08/25 10:03	05/08/25 15:04	PB167915

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	1.20	U	1.20	3.30	ug/Kg
91-57-6	2-Methylnaphthalene	1.20	U	1.20	3.30	ug/Kg
208-96-8	Acenaphthylene	1.10	U	1.10	3.30	ug/Kg
83-32-9	Acenaphthene	1.10	U	1.10	3.30	ug/Kg
86-73-7	Fluorene	1.10	U	1.10	3.30	ug/Kg
85-01-8	Phenanthrene	1.20	U	1.20	3.30	ug/Kg
120-12-7	Anthracene	1.20	U	1.20	3.30	ug/Kg
206-44-0	Fluoranthene	1.20	U	1.20	3.30	ug/Kg
129-00-0	Pyrene	1.10	U	1.10	3.30	ug/Kg
56-55-3	Benzo(a)anthracene	1.30	U	1.30	3.30	ug/Kg
218-01-9	Chrysene	1.40	U	1.40	3.30	ug/Kg
205-99-2	Benzo(b)fluoranthene	1.60	U	1.60	3.30	ug/Kg
207-08-9	Benzo(k)fluoranthene	1.80	U	1.80	3.30	ug/Kg
50-32-8	Benzo(a)pyrene	1.40	U	1.40	3.30	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.80	U	1.80	3.30	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1.80	U	1.80	3.30	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1.70	U	1.70	3.30	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.32		17 - 161	79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		23 - 138	91%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.32		33 - 121	79%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.31		32 - 121	78%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.32		21 - 130	80%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1580		7.625		
1146-65-2	Naphthalene-d8	3770		10.415		
15067-26-2	Acenaphthene-d10	2030		14.277		
1517-22-2	Phenanthrene-d10	4070		17.021		
1719-03-5	Chrysene-d12	3600		21.215		

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB167915BL	SDG No.:	Q1872
Lab Sample ID:	PB167915BL	Matrix:	SOIL
Analytical Method:	SW8270ESIM	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036973.D	1	05/08/25 10:03	05/08/25 15:04	PB167915

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1520-96-3	Perylene-d12	3530	23.421			

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\BN050825\
Data File : BN036973.D
Acq On : 08 May 2025 15:04
Operator : RC/JU
Sample : PB167915BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167915BL

Quant Time: May 08 15:33:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.625	152	1580	0.400	ng	0.00
7) Naphthalene-d8	10.415	136	3771	0.400	ng	# 0.00
13) Acenaphthene-d10	14.277	164	2026	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	4065	0.400	ng	0.00
29) Chrysene-d12	21.215	240	3603	0.400	ng	0.00
35) Perylene-d12	23.421	264	3531	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	1378	0.341	ng	0.00
5) Phenol-d6	6.809	99	1504	0.302	ng	0.00
8) Nitrobenzene-d5	8.781	82	1245	0.316	ng	0.00
11) 2-Methylnaphthalene-d10	12.016	152	1668	0.316	ng	0.00
14) 2,4,6-Tribromophenol	15.780	330	206	0.228	ng	0.01
15) 2-Fluorobiphenyl	12.904	172	3042	0.311	ng	0.00
27) Fluoranthene-d10	19.059	212	3843	0.365	ng	0.00
31) Terphenyl-d14	19.663	244	2733	0.321	ng	0.00

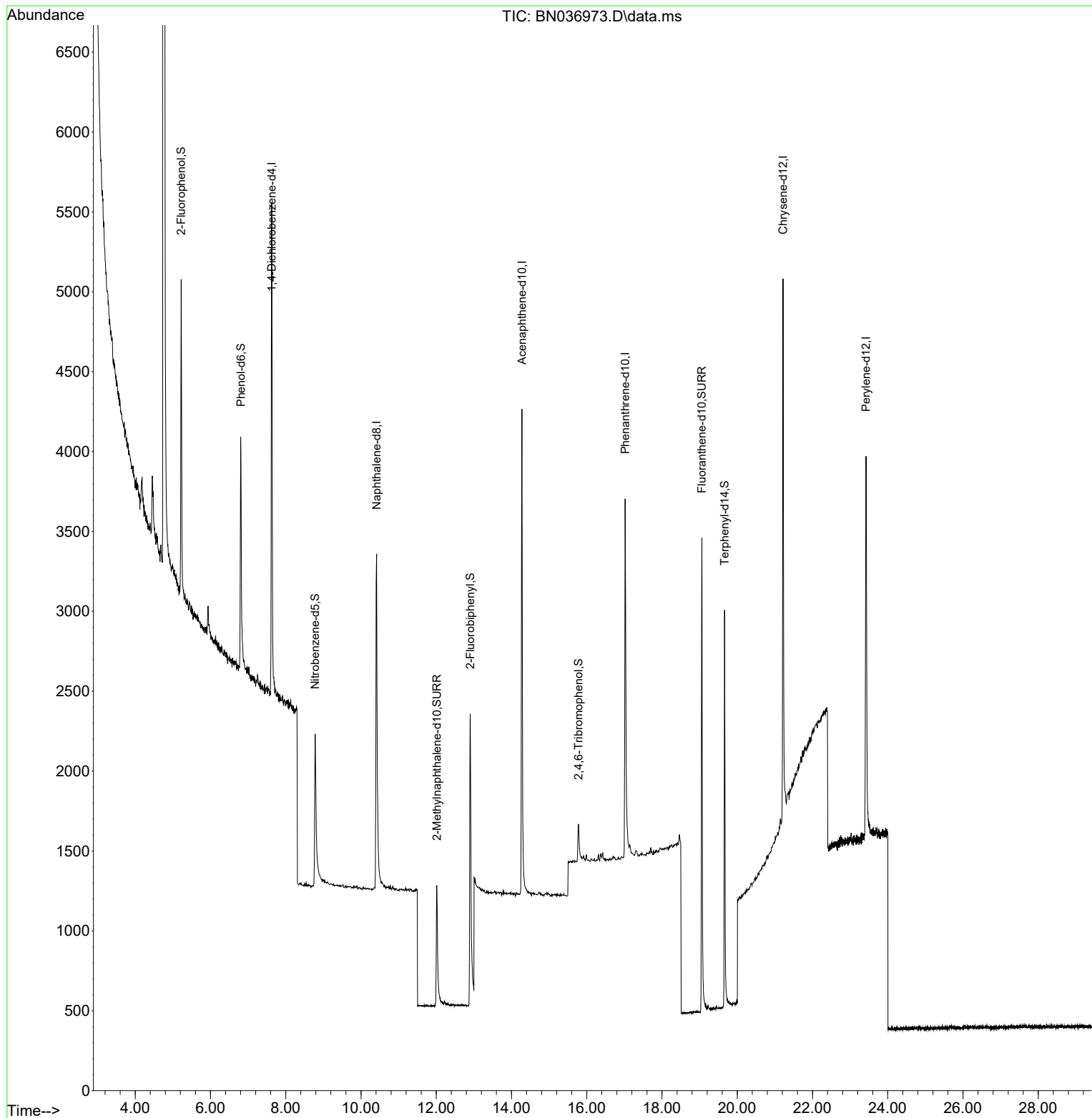
Target Compounds Qvalue

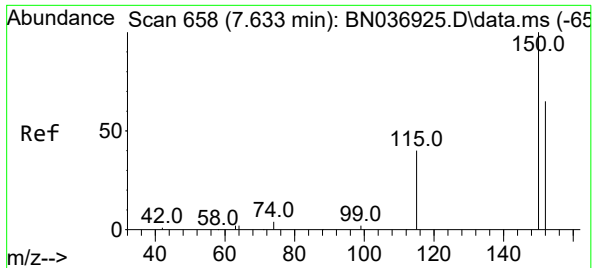
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050825\
Data File : BN036973.D
Acq On : 08 May 2025 15:04
Operator : RC/JU
Sample : PB167915BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167915BL

Quant Time: May 08 15:33:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

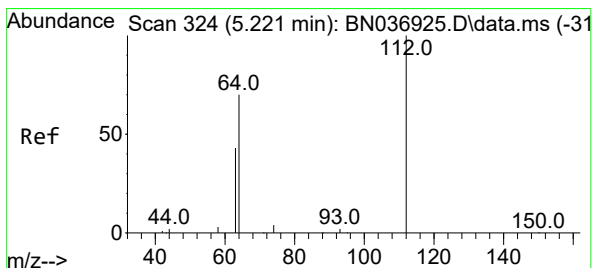
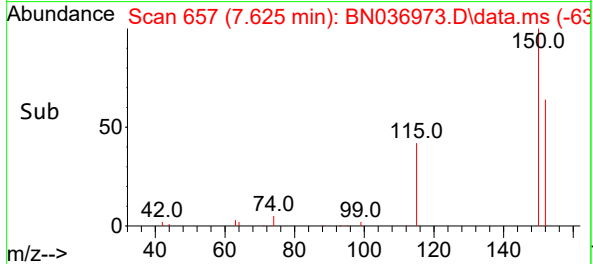
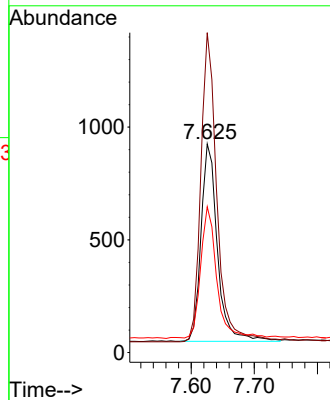
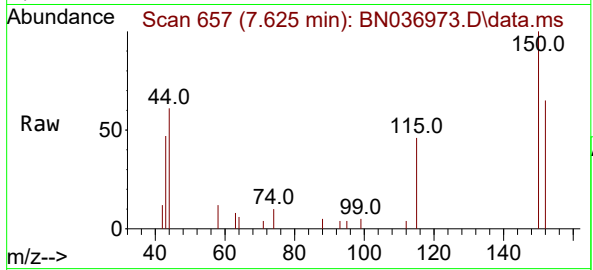




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.625 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

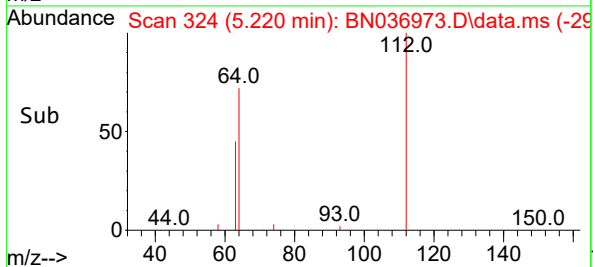
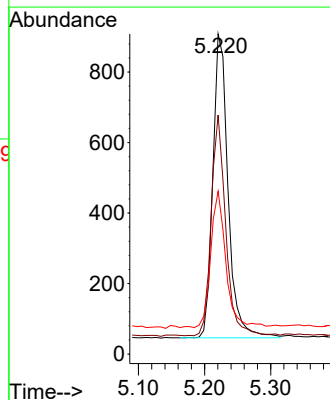
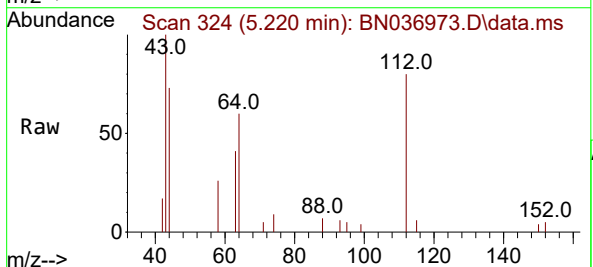
Instrument :
BNA_N
ClientSampleId :
PB167915BL

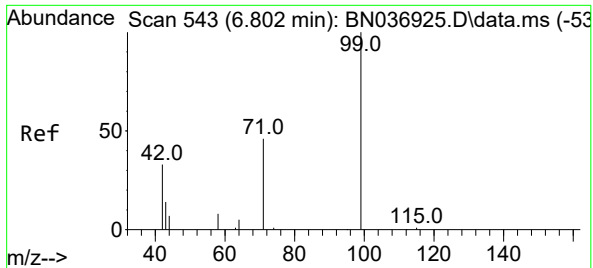
Tgt Ion:152 Resp: 1580
Ion Ratio Lower Upper
152 100
150 153.2 121.1 181.7
115 69.9 51.8 77.6



#4
2-Fluorophenol
Concen: 0.341 ng
RT: 5.220 min Scan# 324
Delta R.T. -0.000 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

Tgt Ion:112 Resp: 1378
Ion Ratio Lower Upper
112 100
64 69.4 55.7 83.5
63 43.0 33.9 50.9

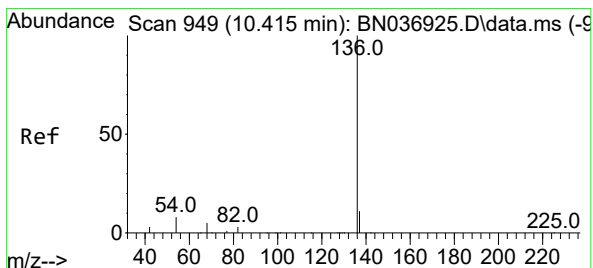
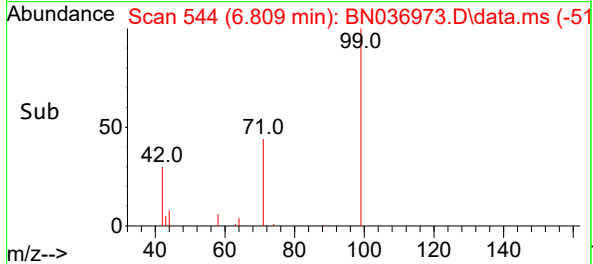
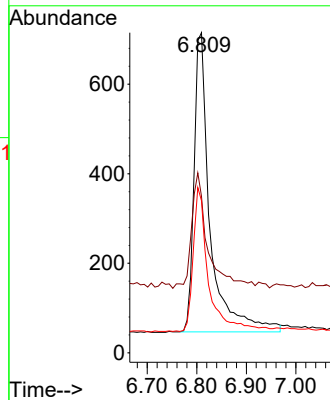
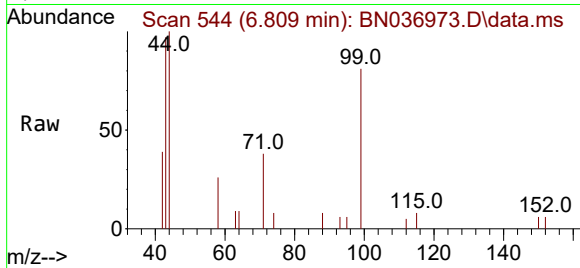




#5
Phenol-d6
Concen: 0.302 ng
RT: 6.809 min Scan# 543
Delta R.T. 0.007 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

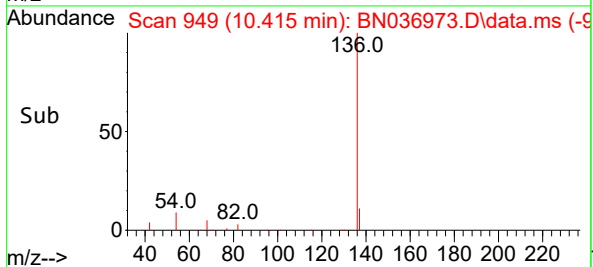
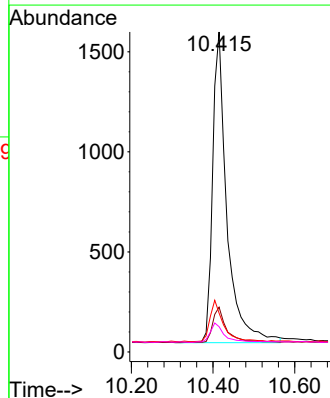
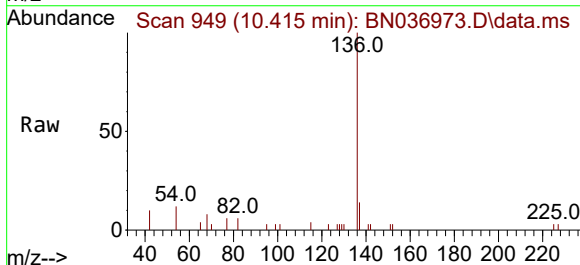
Instrument :
BNA_N
ClientSampleId :
PB167915BL

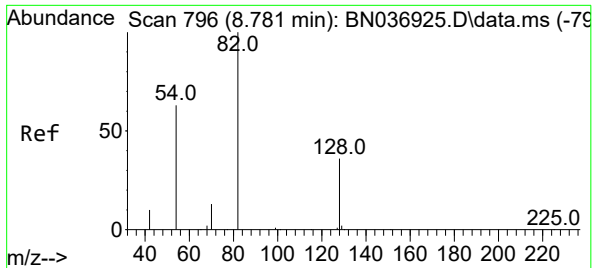
Tgt Ion	Resp	Ion	Ratio	Lower	Upper
99	1504	99	100		
42		42	39.2	29.6	44.4
71		71	45.9	36.0	54.0



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.415 min Scan# 949
Delta R.T. -0.000 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

Tgt Ion	Resp	Ion	Ratio	Lower	Upper
136	3771	136	100		
137		137	14.0	9.7	14.5
54		54	12.1	8.0	12.0#
68		68	7.9	5.1	7.7#

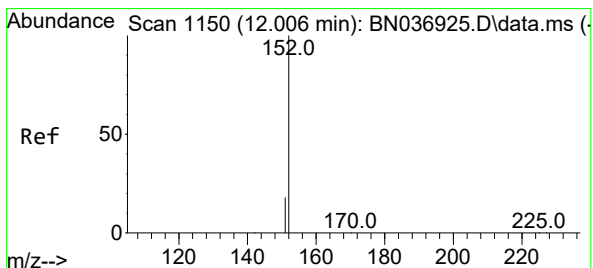
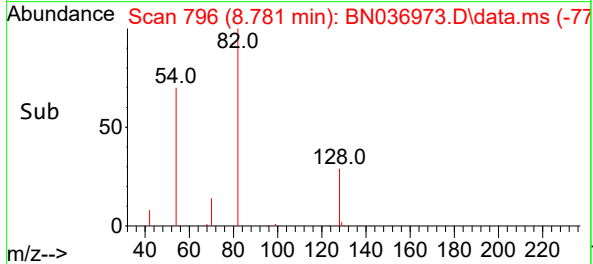
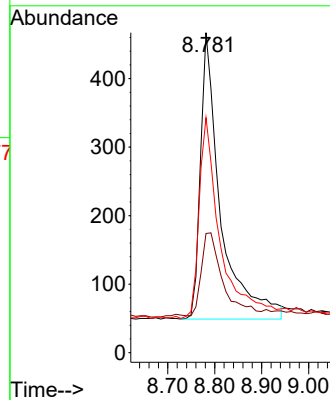
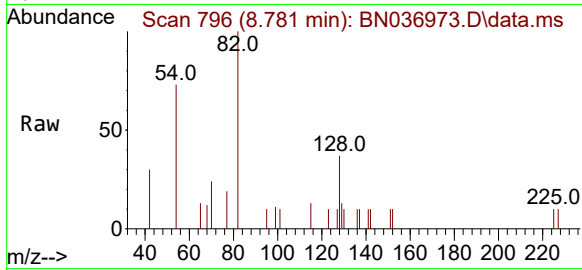




#8
Nitrobenzene-d5
Concen: 0.316 ng
RT: 8.781 min Scan# 796
Delta R.T. -0.000 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

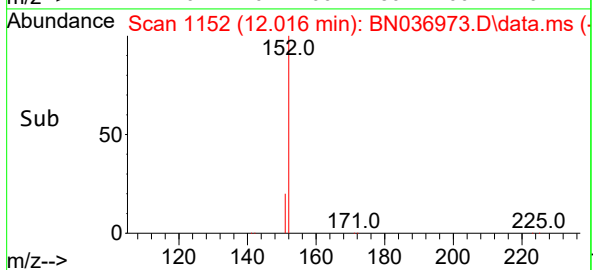
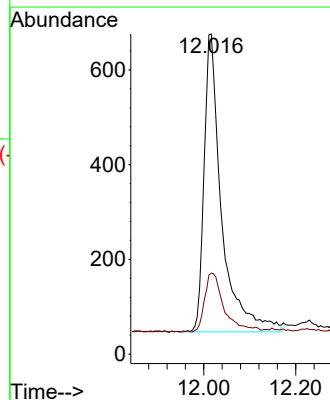
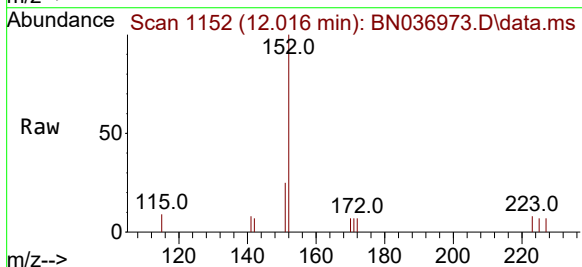
Instrument :
BNA_N
ClientSampleId :
PB167915BL

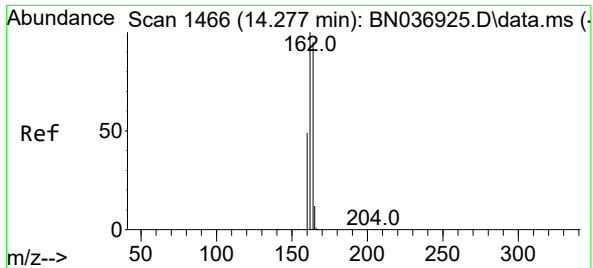
Tgt Ion: 82 Resp: 1245
Ion Ratio Lower Upper
82 100
128 37.3 30.7 46.1
54 73.4 52.1 78.1



#11
2-Methylnaphthalene-d10
Concen: 0.316 ng
RT: 12.016 min Scan# 1152
Delta R.T. 0.010 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

Tgt Ion: 152 Resp: 1668
Ion Ratio Lower Upper
152 100
151 21.8 16.9 25.3

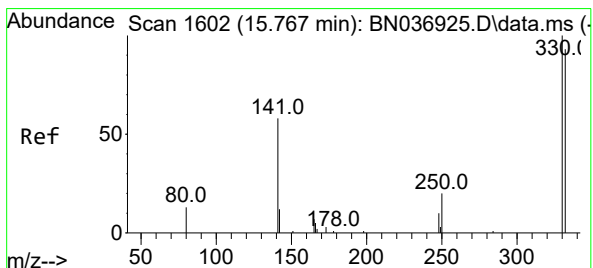
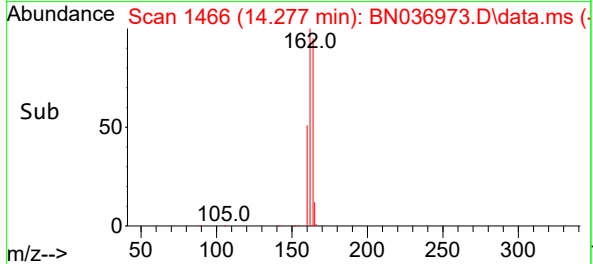
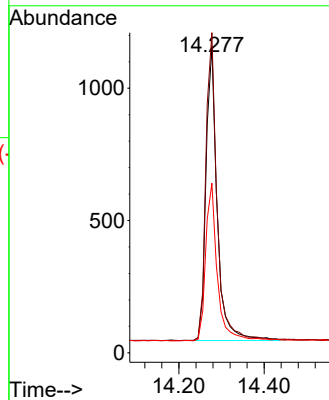
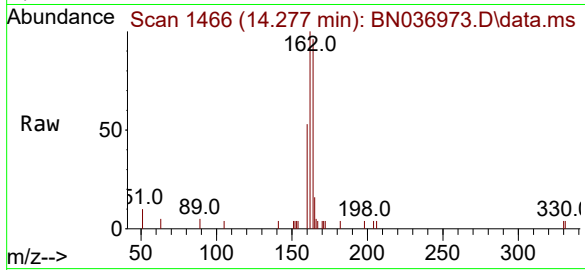




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

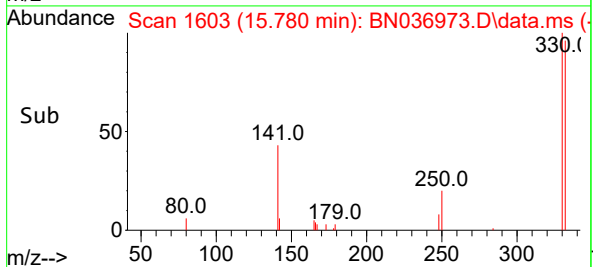
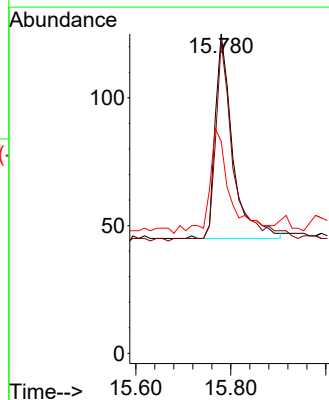
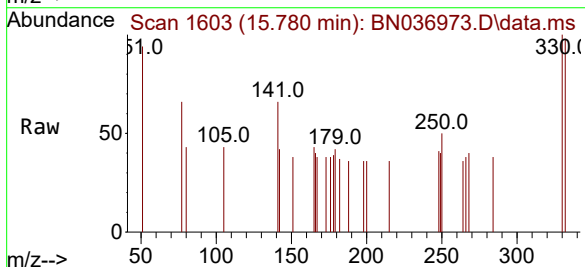
Instrument :
BNA_N
ClientSampleId :
PB167915BL

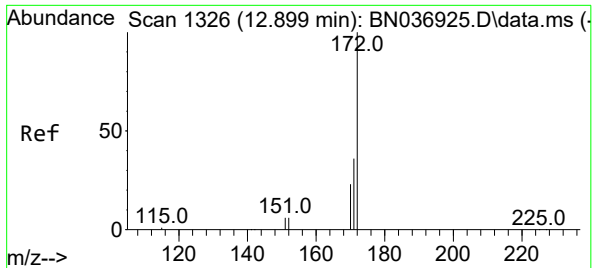
Tgt Ion:	164	Resp:	2026
Ion	Ratio	Lower	Upper
164	100		
162	104.5	83.8	125.8
160	55.4	42.0	63.0



#14
2,4,6-Tribromophenol
Concen: 0.228 ng
RT: 15.780 min Scan# 1603
Delta R.T. 0.012 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

Tgt Ion:	330	Resp:	206
Ion	Ratio	Lower	Upper
330	100		
332	92.2	76.3	114.5
141	59.2	45.4	68.2

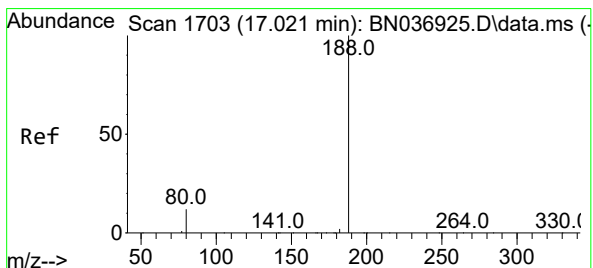
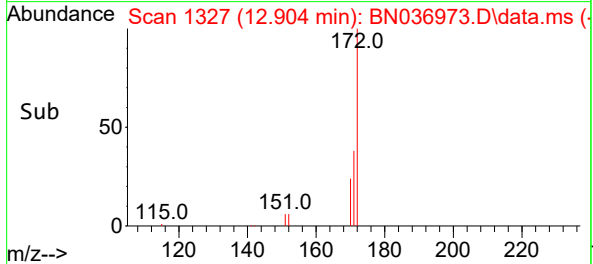
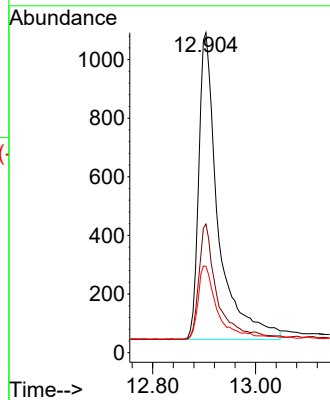
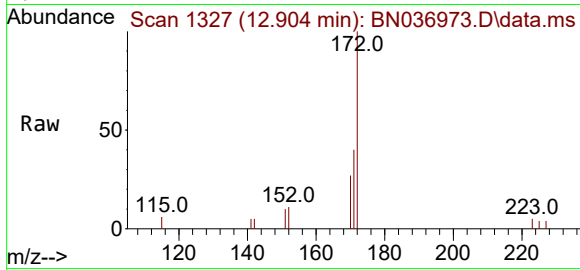




#15
2-Fluorobiphenyl
Concen: 0.311 ng
RT: 12.904 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

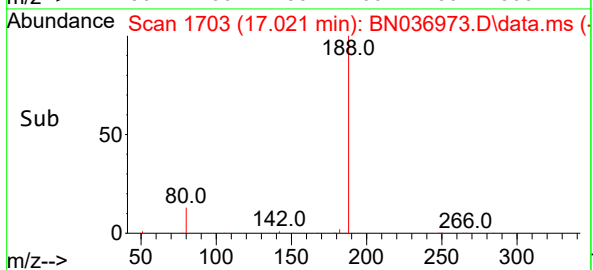
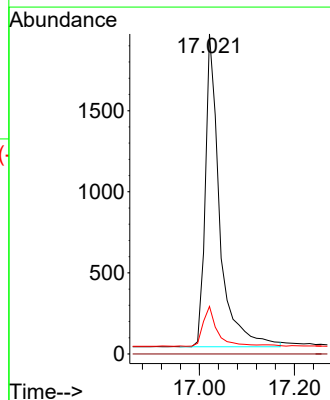
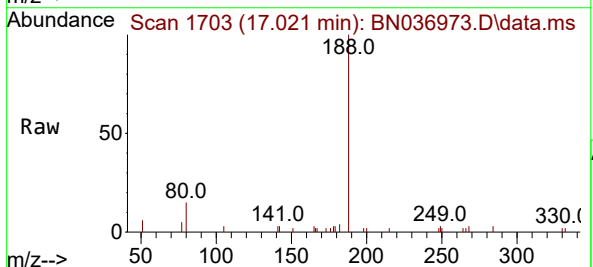
Instrument :
BNA_N
ClientSampleId :
PB167915BL

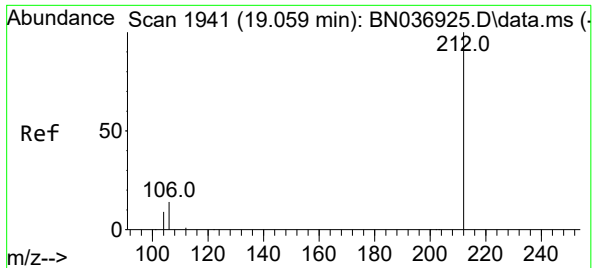
Tgt Ion:172 Resp: 3042
Ion Ratio Lower Upper
172 100
171 40.2 29.4 44.0
170 26.9 19.4 29.0



#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

Tgt Ion:188 Resp: 4065
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 14.9 10.7 16.1





#27

Fluoranthene-d10

Concen: 0.365 ng

RT: 19.059 min Scan# 1941

Delta R.T. -0.000 min

Lab File: BN036973.D

Acq: 08 May 2025 15:04

Instrument :

BNA_N

ClientSampleId :

PB167915BL

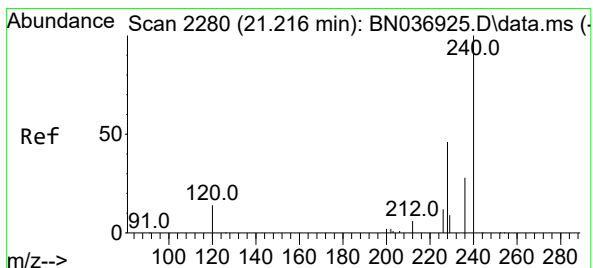
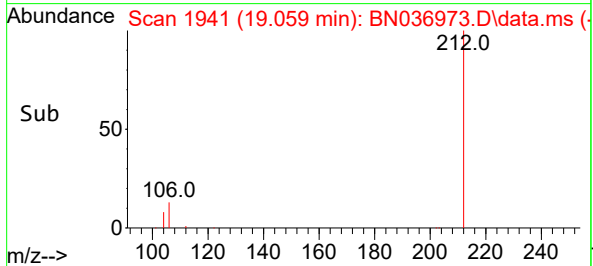
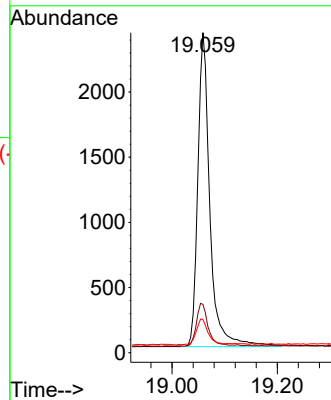
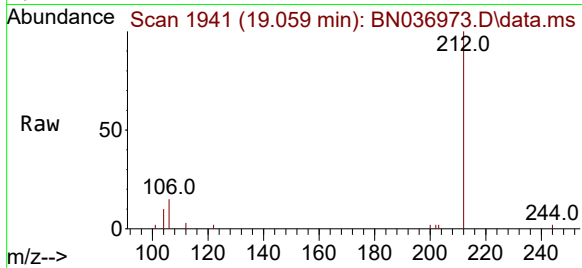
Tgt Ion:212 Resp: 3843

Ion Ratio Lower Upper

212 100

106 13.2 11.6 17.4

104 8.4 7.0 10.4



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 2280

Delta R.T. -0.000 min

Lab File: BN036973.D

Acq: 08 May 2025 15:04

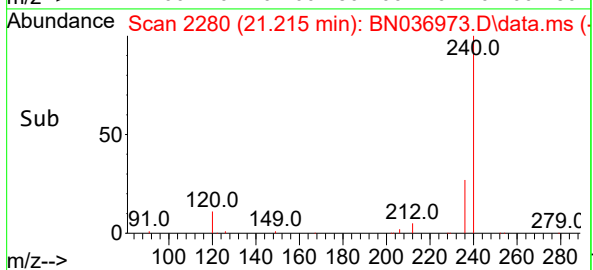
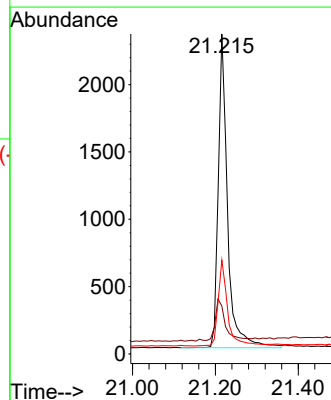
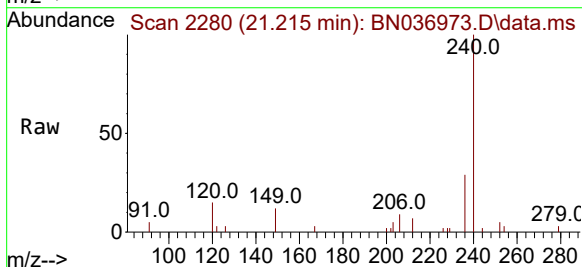
Tgt Ion:240 Resp: 3603

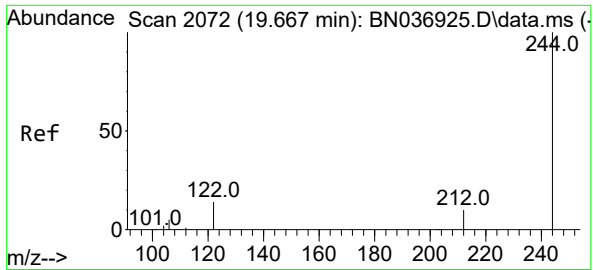
Ion Ratio Lower Upper

240 100

120 15.0 14.1 21.1

236 29.4 23.8 35.8

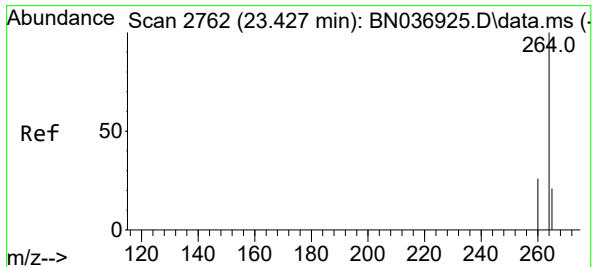
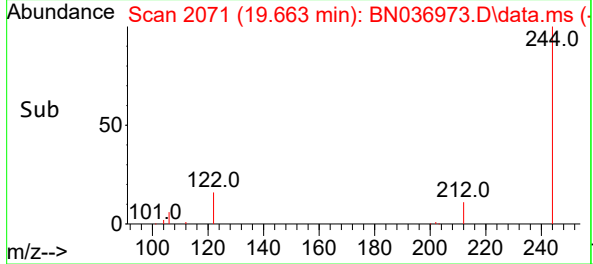
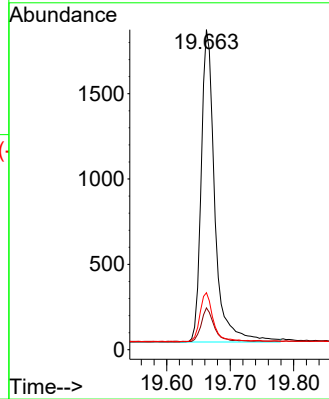
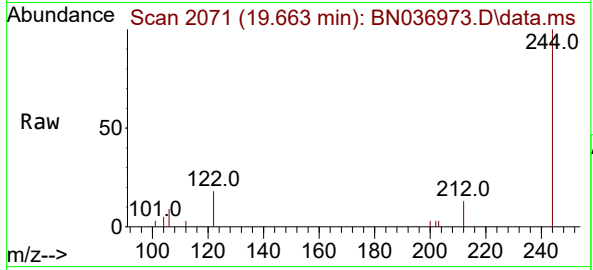




#31
Terphenyl-d14
Concen: 0.321 ng
RT: 19.663 min Scan# 2071
Delta R.T. -0.005 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

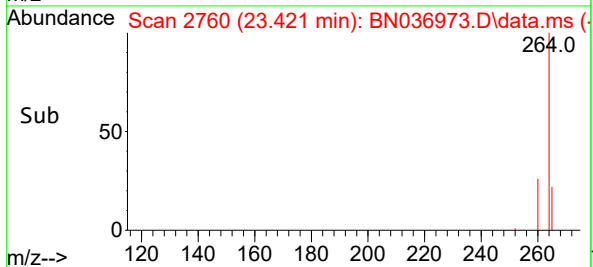
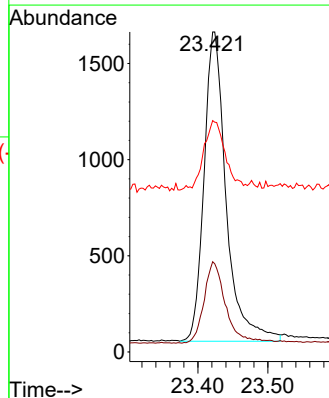
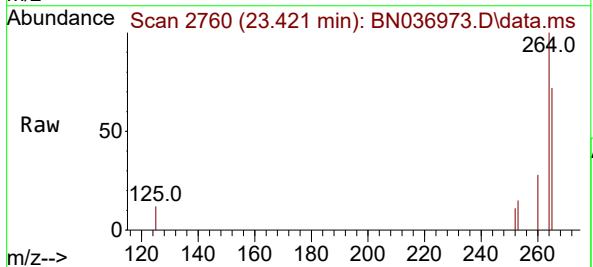
Instrument :
BNA_N
ClientSampleId :
PB167915BL

Tgt Ion:244 Resp: 2733
Ion Ratio Lower Upper
244 100
212 13.1 9.6 14.4
122 17.8 12.7 19.1



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.421 min Scan# 2760
Delta R.T. -0.006 min
Lab File: BN036973.D
Acq: 08 May 2025 15:04

Tgt Ion:264 Resp: 3531
Ion Ratio Lower Upper
264 100
260 28.2 22.2 33.2
265 72.3 65.8 98.6



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	
Project:	NJ Soil PT		Date Received:	
Client Sample ID:	PB167915BS		SDG No.:	Q1872
Lab Sample ID:	PB167915BS		Matrix:	SOIL
Analytical Method:	SW8270ESIM		% Solid:	100
Sample Wt/Vol:	30.01	Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group3
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036979.D	1	05/08/25 10:03	05/08/25 18:41	PB167915

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	12.7		1.20	3.30	ug/Kg
91-57-6	2-Methylnaphthalene	13.0		1.20	3.30	ug/Kg
208-96-8	Acenaphthylene	12.7		1.10	3.30	ug/Kg
83-32-9	Acenaphthene	12.3		1.10	3.30	ug/Kg
86-73-7	Fluorene	12.3		1.10	3.30	ug/Kg
85-01-8	Phenanthrene	12.3		1.20	3.30	ug/Kg
120-12-7	Anthracene	12.3		1.20	3.30	ug/Kg
206-44-0	Fluoranthene	12.3		1.20	3.30	ug/Kg
129-00-0	Pyrene	12.0		1.10	3.30	ug/Kg
56-55-3	Benzo(a)anthracene	13.0		1.30	3.30	ug/Kg
218-01-9	Chrysene	13.0		1.40	3.30	ug/Kg
205-99-2	Benzo(b)fluoranthene	12.0		1.60	3.30	ug/Kg
207-08-9	Benzo(k)fluoranthene	12.7		1.80	3.30	ug/Kg
50-32-8	Benzo(a)pyrene	13.0		1.40	3.30	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	11.7		1.80	3.30	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	11.7		1.80	3.30	ug/Kg
191-24-2	Benzo(g,h,i)perylene	10.3		1.70	3.30	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.51		17 - 161	127%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.36		23 - 138	90%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.35		33 - 121	88%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.35		32 - 121	88%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.36		21 - 130	90%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	2490		7.626		
1146-65-2	Naphthalene-d8	6670		10.404		
15067-26-2	Acenaphthene-d10	3770		14.277		
1517-22-2	Phenanthrene-d10	7640		17.021		
1719-03-5	Chrysene-d12	6260		21.216		

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	
Project:	NJ Soil PT	Date Received:	
Client Sample ID:	PB167915BS	SDG No.:	Q1872
Lab Sample ID:	PB167915BS	Matrix:	SOIL
Analytical Method:	SW8270ESIM	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036979.D	1	05/08/25 10:03	05/08/25 18:41	PB167915

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1520-96-3	Perylene-d12	5500	23.421			

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\BN050825\
 Data File : BN036979.D
 Acq On : 08 May 2025 18:41
 Operator : RC/JU
 Sample : PB167915BS
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB167915BS

Quant Time: May 09 09:34:43 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

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

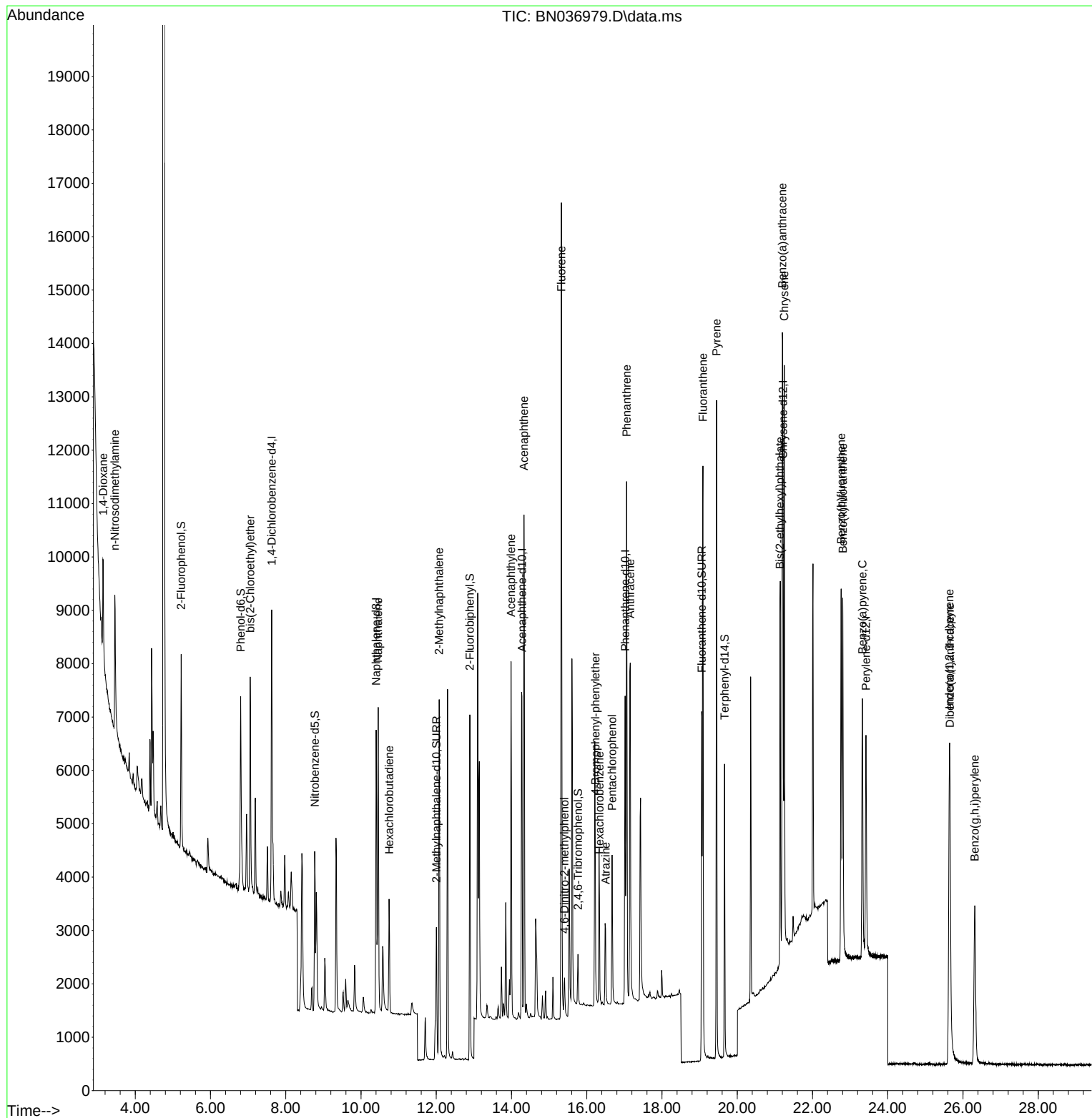
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.626	152	2493	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	6667	0.400	ng	#-0.01
13) Acenaphthene-d10	14.277	164	3772	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	7644	0.400	ng	# 0.00
29) Chrysene-d12	21.216	240	6261	0.400	ng	# 0.00
35) Perylene-d12	23.421	264	5504	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.221	112	2481	0.389	ng	0.00
5) Phenol-d6	6.802	99	3035	0.387	ng	0.00
8) Nitrobenzene-d5	8.771	82	2475	0.355	ng	-0.01
11) 2-Methylnaphthalene-d10	12.006	152	4778	0.512	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	486	0.289	ng	0.00
15) 2-Fluorobiphenyl	12.894	172	6443	0.353	ng	0.00
27) Fluoranthene-d10	19.059	212	7228	0.365	ng	0.00
31) Terphenyl-d14	19.663	244	5366	0.363	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.148	88	930	0.299	ng	# 28
3) n-Nitrosodimethylamine	3.458	42	2150	0.357	ng	# 94
6) bis(2-Chloroethyl)ether	7.055	93	2923	0.402	ng	99
9) Naphthalene	10.458	128	7408	0.382	ng	100
10) Hexachlorobutadiene	10.746	225	1609	0.383	ng	# 99
12) 2-Methylnaphthalene	12.077	142	4900	0.391	ng	98
16) Acenaphthylene	13.989	152	7034	0.382	ng	100
17) Acenaphthene	14.331	154	4460	0.368	ng	98
18) Fluorene	15.325	166	5786	0.365	ng	100
20) 4,6-Dinitro-2-methylph...	15.411	198	543	0.268	ng	# 80
21) 4-Bromophenyl-phenylether	16.227	248	1776	0.348	ng	94
22) Hexachlorobenzene	16.338	284	2033	0.364	ng	96
23) Atrazine	16.500	200	1563	0.380	ng	98
24) Pentachlorophenol	16.674	266	1278	0.426	ng	98
25) Phenanthrene	17.058	178	9379	0.372	ng	100
26) Anthracene	17.158	178	8525	0.374	ng	99
28) Fluoranthene	19.087	202	10334	0.365	ng	99
30) Pyrene	19.449	202	10737	0.356	ng	100
32) Benzo(a)anthracene	21.198	228	8967	0.389	ng	99
33) Chrysene	21.251	228	9711	0.391	ng	98
34) Bis(2-ethylhexyl)phtha...	21.135	149	5348	0.408	ng	100
36) Indeno(1,2,3-cd)pyrene	25.637	276	7939	0.353	ng	100
37) Benzo(b)fluoranthene	22.760	252	8326	0.360	ng	99
38) Benzo(k)fluoranthene	22.804	252	8759	0.376	ng	99
39) Benzo(a)pyrene	23.325	252	7401	0.389	ng	97
40) Dibenzo(a,h)anthracene	25.652	278	6108	0.345	ng	99
41) Benzo(g,h,i)perylene	26.313	276	6141	0.313	ng	98

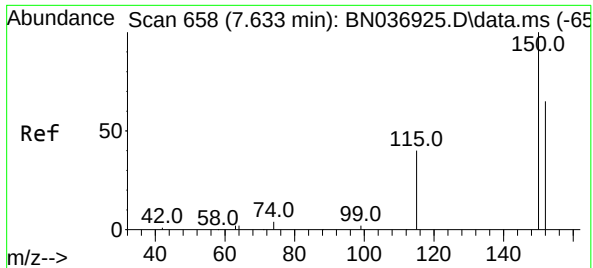
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050825\
Data File : BN036979.D
Acq On : 08 May 2025 18:41
Operator : RC/JU
Sample : PB167915BS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB167915BS

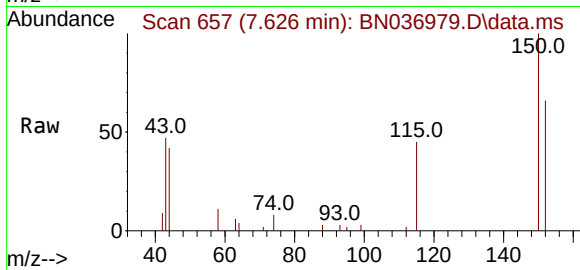
Quant Time: May 09 09:34:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration



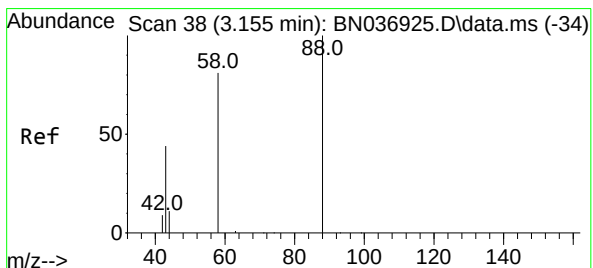
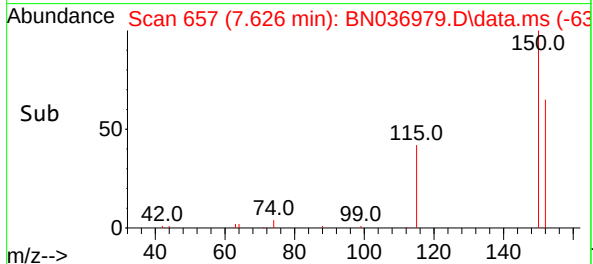
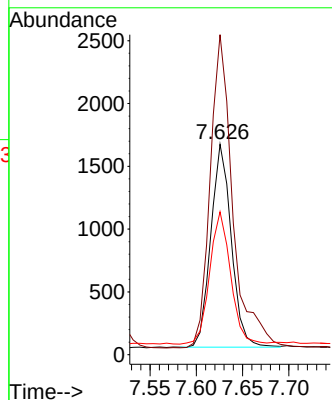


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.626 min Scan# 61
Delta R.T. -0.007 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Instrument :
BNA_N
ClientSampleId :
PB167915BS

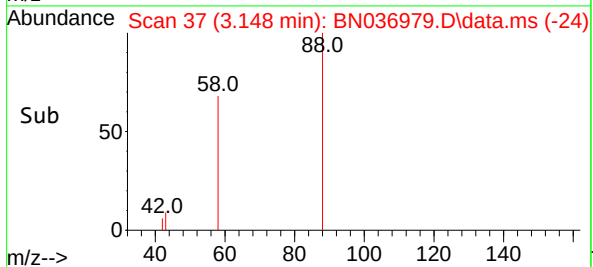
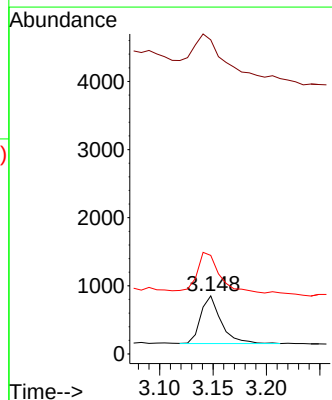
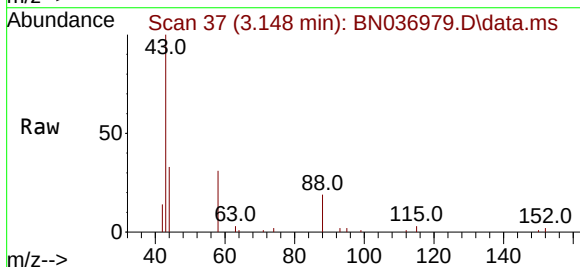


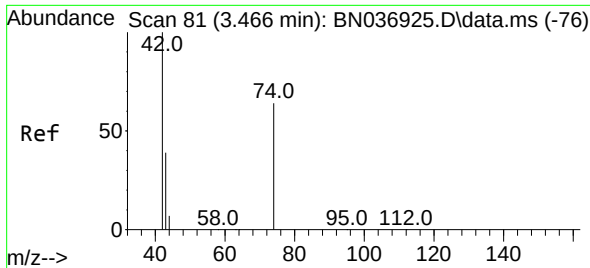
Tgt Ion:152 Resp: 2493
Ion Ratio Lower Upper
152 100
150 152.1 121.1 181.7
115 67.9 51.8 77.6



#2
1,4-Dioxane
Concen: 0.299 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion: 88 Resp: 930
Ion Ratio Lower Upper
88 100
43 155.3 37.9 56.9#
58 101.4 65.8 98.6#

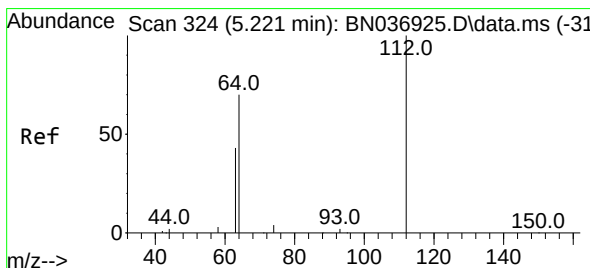
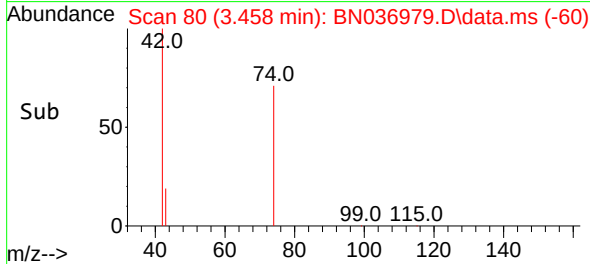
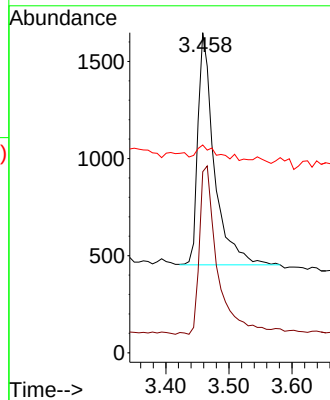
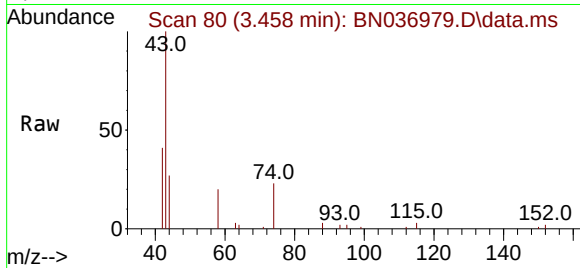




#3
n-Nitrosodimethylamine
Concen: 0.357 ng
RT: 3.458 min Scan# 80
Delta R.T. -0.007 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

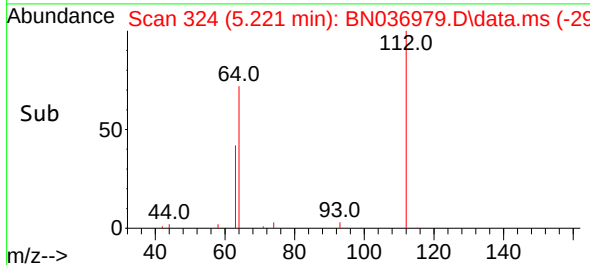
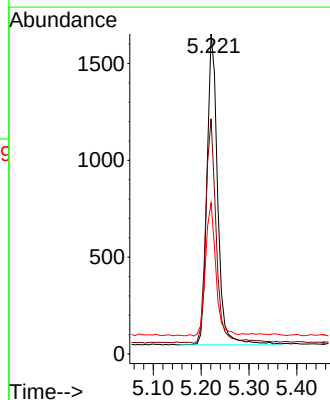
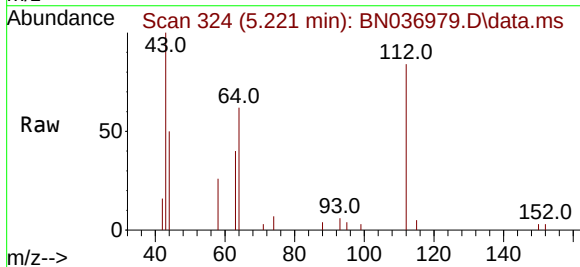
Instrument :
BNA_N
ClientSampleId :
PB167915BS

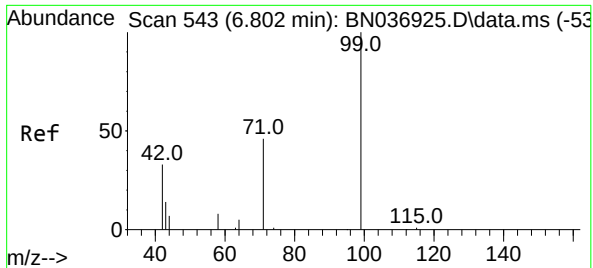
Tgt Ion: 42 Resp: 2150
Ion Ratio Lower Upper
42 100
74 80.4 59.9 89.9
44 7.4 7.5 11.3#



#4
2-Fluorophenol
Concen: 0.389 ng
RT: 5.221 min Scan# 324
Delta R.T. 0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion: 112 Resp: 2481
Ion Ratio Lower Upper
112 100
64 70.1 55.7 83.5
63 41.3 33.9 50.9

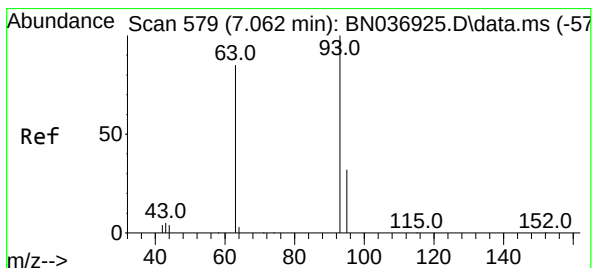
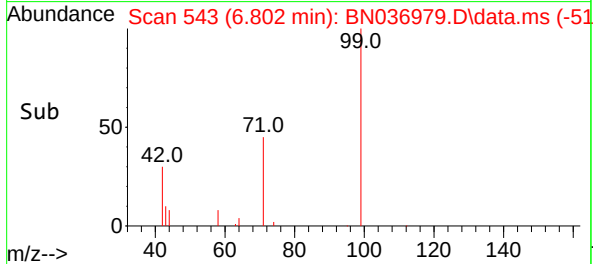
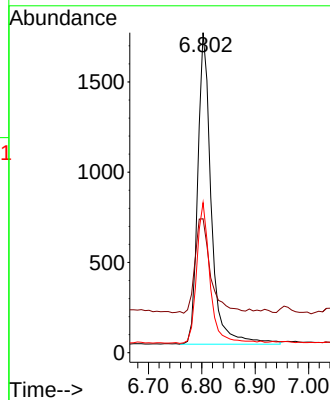
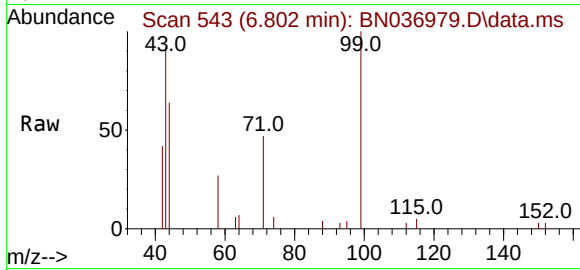




#5
Phenol-d6
Concen: 0.387 ng
RT: 6.802 min Scan# 543
Delta R.T. 0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

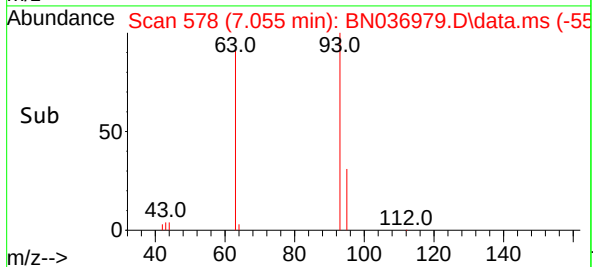
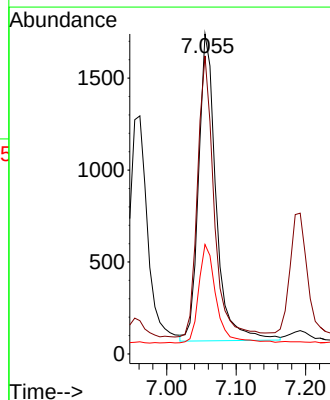
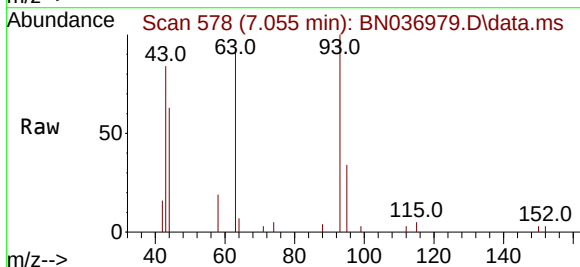
Instrument :
BNA_N
ClientSampleId :
PB167915BS

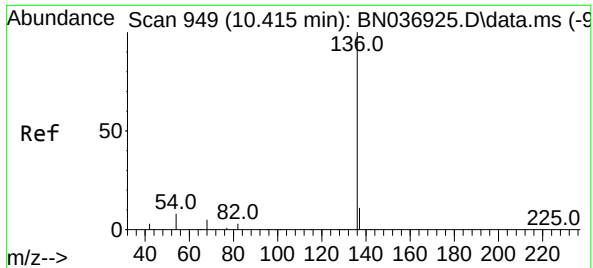
Tgt Ion	Ratio	Lower	Upper
99	100		
42	33.8	29.6	44.4
71	44.5	36.0	54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.402 ng
RT: 7.055 min Scan# 578
Delta R.T. -0.007 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion	Ratio	Lower	Upper
93	100		
63	86.8	69.0	103.6
95	32.0	25.4	38.0

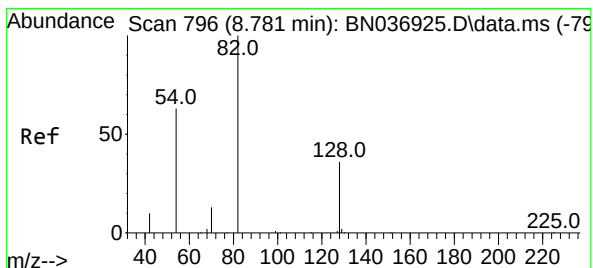
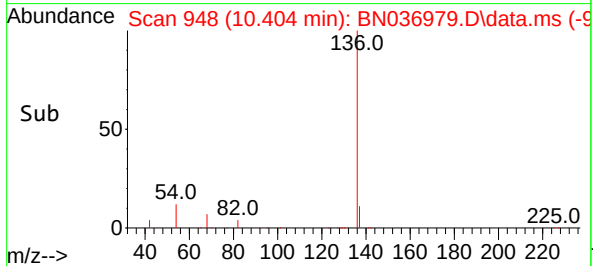
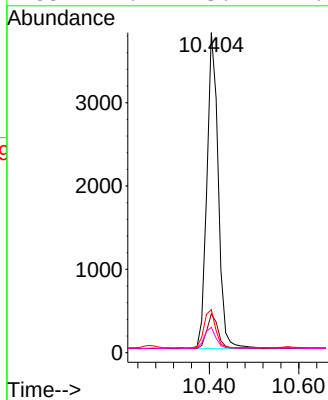
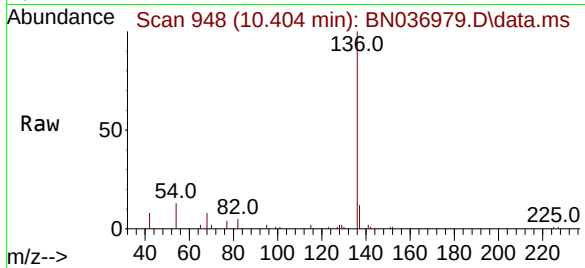




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

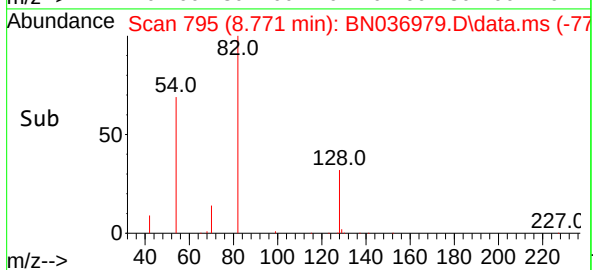
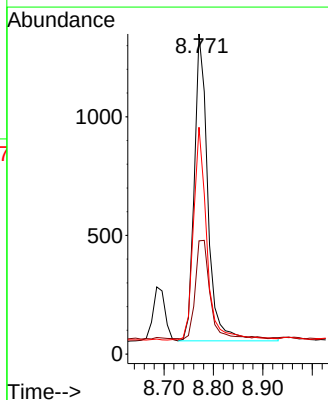
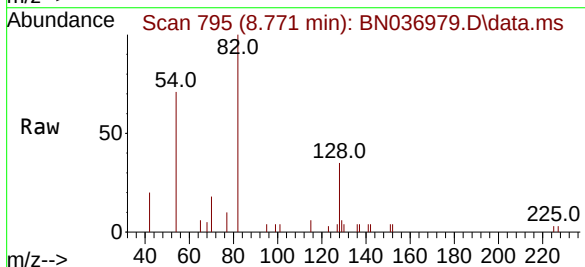
Instrument :
BNA_N
ClientSampleId :
PB167915BS

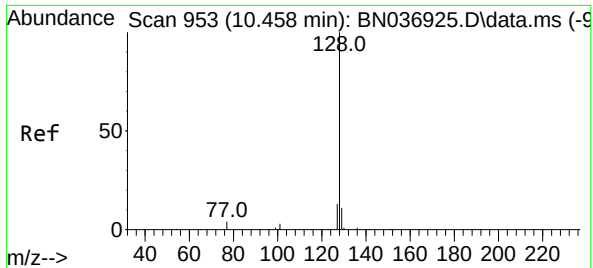
Tgt Ion:	136	Resp:	6667
Ion	Ratio	Lower	Upper
136	100		
137	12.2	9.7	14.5
54	13.4	8.0	12.0#
68	7.9	5.1	7.7#



#8
Nitrobenzene-d5
Concen: 0.355 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.011 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion:	82	Resp:	2475
Ion	Ratio	Lower	Upper
82	100		
128	35.4	30.7	46.1
54	70.9	52.1	78.1

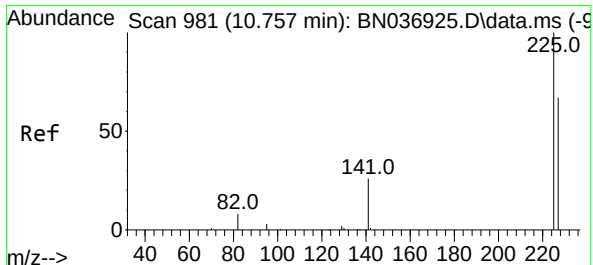
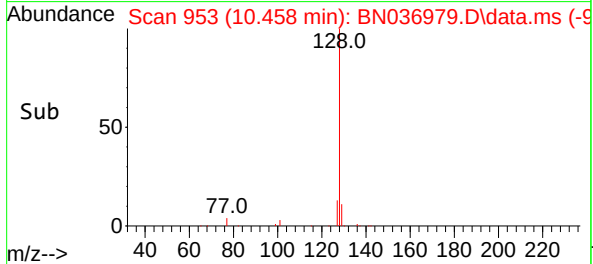
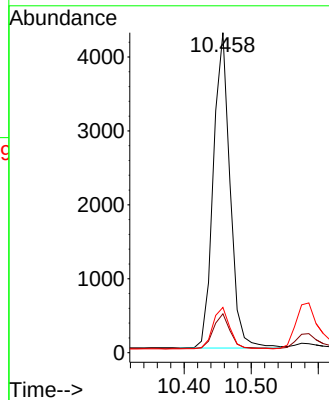
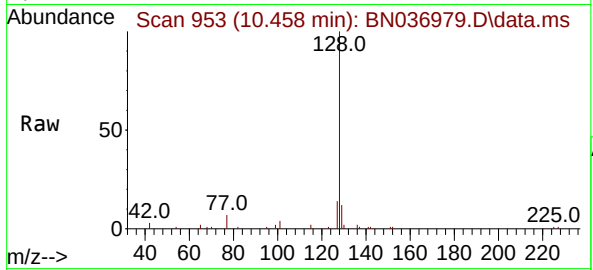




#9
Naphthalene
Concen: 0.382 ng
RT: 10.458 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

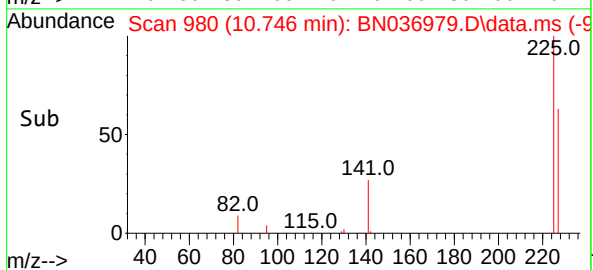
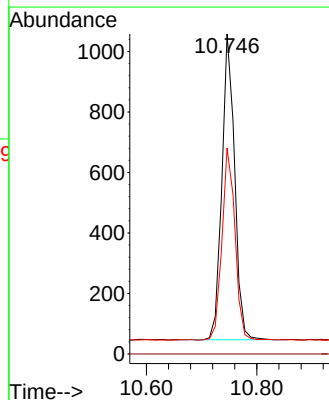
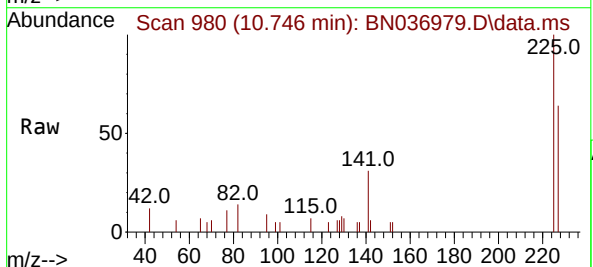
Instrument :
BNA_N
ClientSampleId :
PB167915BS

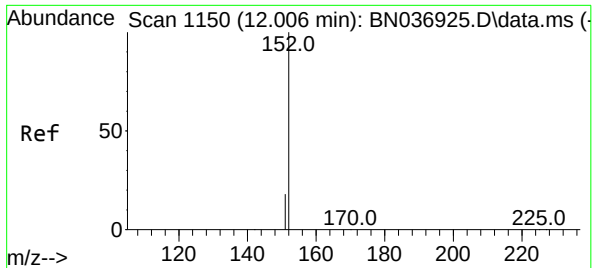
Tgt Ion:128 Resp: 7408
Ion Ratio Lower Upper
128 100
129 12.1 9.8 14.6
127 14.1 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.383 ng
RT: 10.746 min Scan# 980
Delta R.T. -0.011 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion:225 Resp: 1609
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 64.3 52.2 78.4

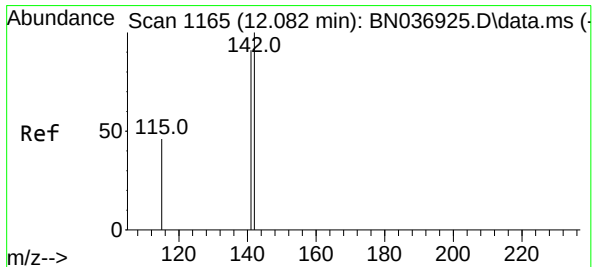
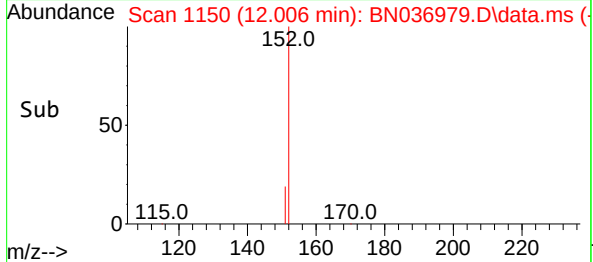
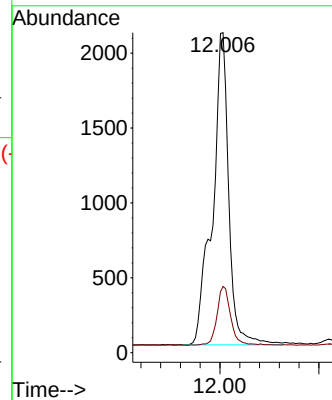
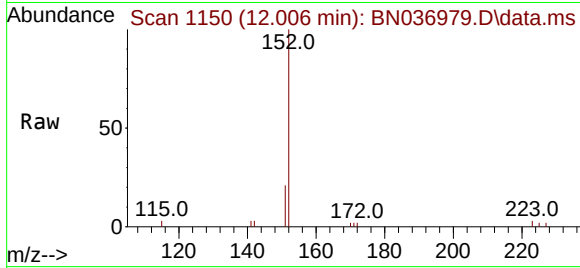




#11
2-Methylnaphthalene-d10
Concen: 0.512 ng
RT: 12.006 min Scan# 1150
Delta R.T. 0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

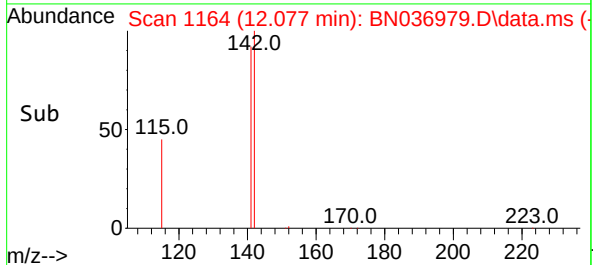
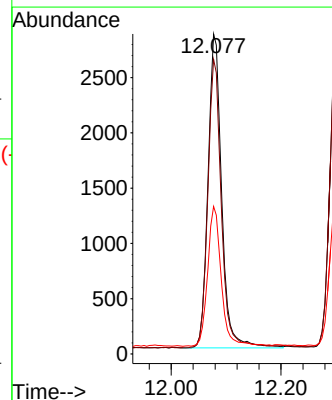
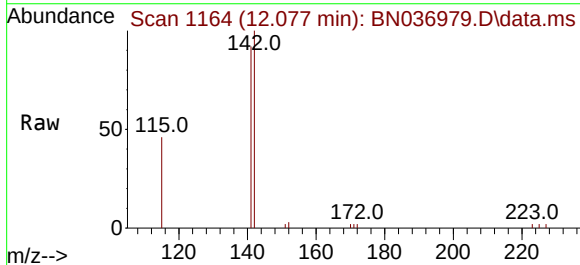
Instrument :
BNA_N
ClientSampleId :
PB167915BS

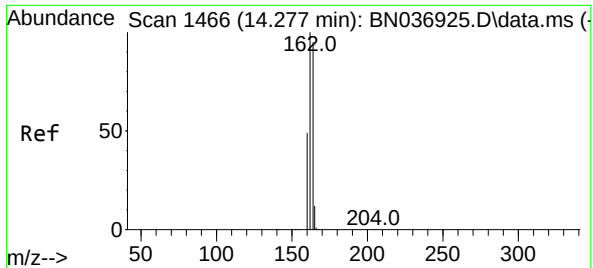
Tgt Ion:152 Resp: 4778
Ion Ratio Lower Upper
152 100
151 15.8 16.9 25.3#



#12
2-Methylnaphthalene
Concen: 0.391 ng
RT: 12.077 min Scan# 1164
Delta R.T. -0.005 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion:142 Resp: 4900
Ion Ratio Lower Upper
142 100
141 92.1 72.8 109.2
115 46.1 38.2 57.4

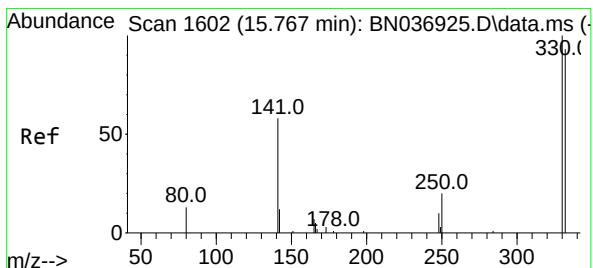
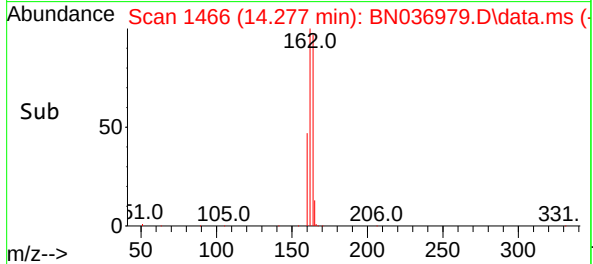
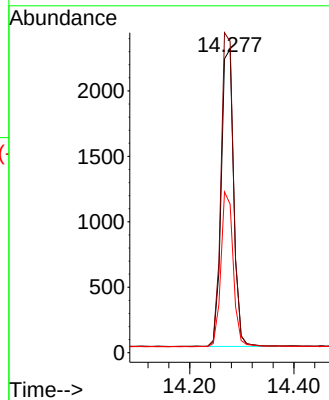
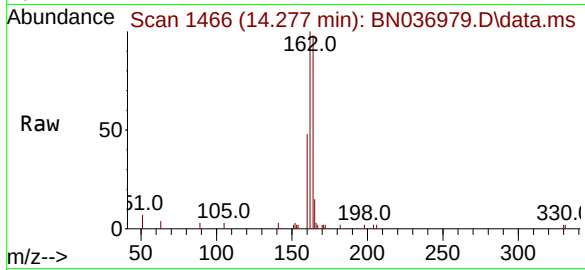




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

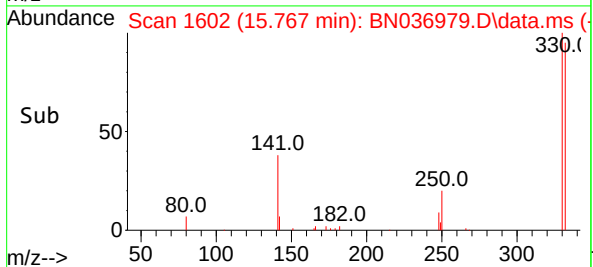
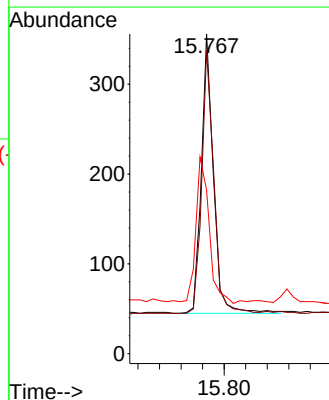
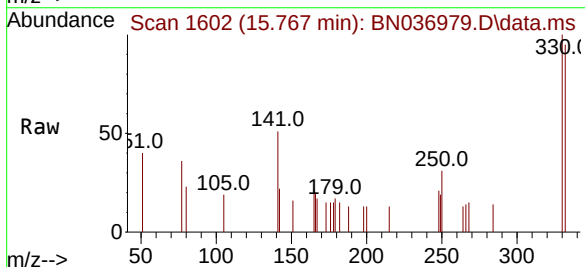
Instrument :
BNA_N
ClientSampleId :
PB167915BS

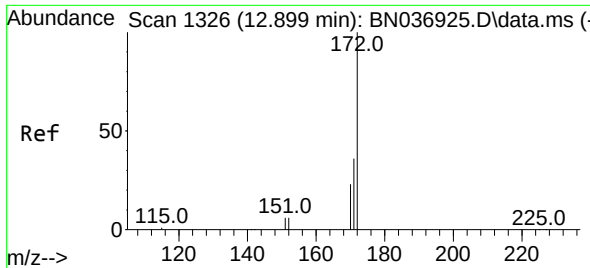
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.5	83.8	125.8
160	48.9	42.0	63.0



#14
2,4,6-Tribromophenol
Concen: 0.289 ng
RT: 15.767 min Scan# 1602
Delta R.T. 0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion	Ratio	Lower	Upper
330	100		
332	93.4	76.3	114.5
141	55.1	45.4	68.2

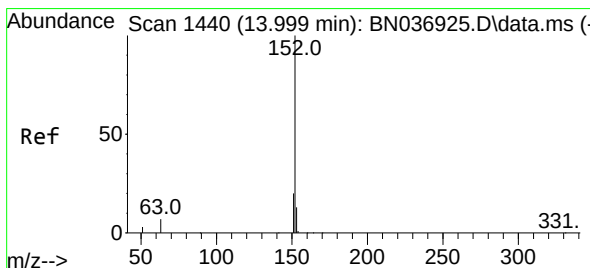
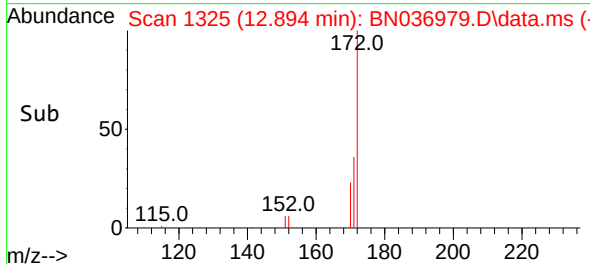
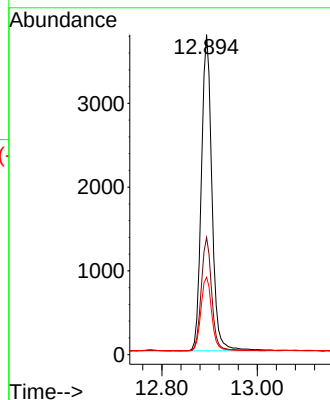
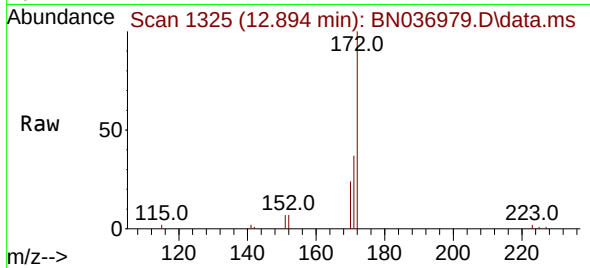




#15
2-Fluorobiphenyl
Concen: 0.353 ng
RT: 12.894 min Scan# 1439
Delta R.T. -0.005 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

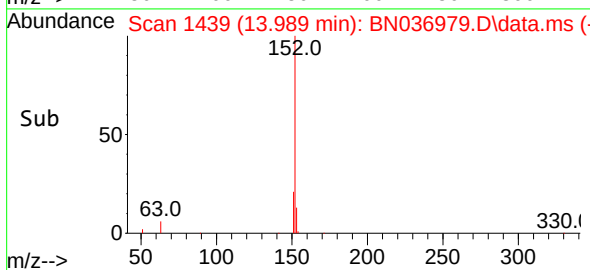
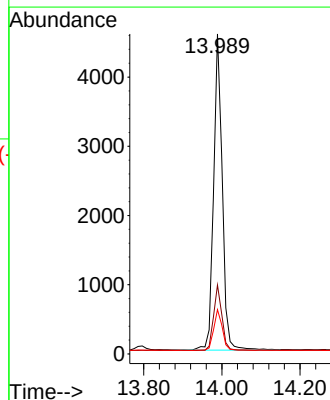
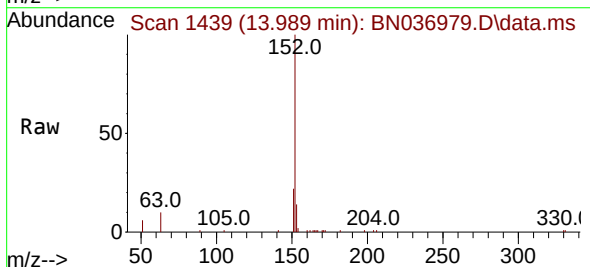
Instrument :
BNA_N
ClientSampleId :
PB167915BS

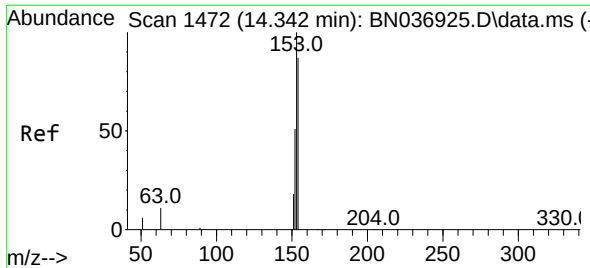
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.6	29.4	44.0
170	24.2	19.4	29.0



#16
Acenaphthylene
Concen: 0.382 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.0	24.0
153	12.9	10.2	15.2

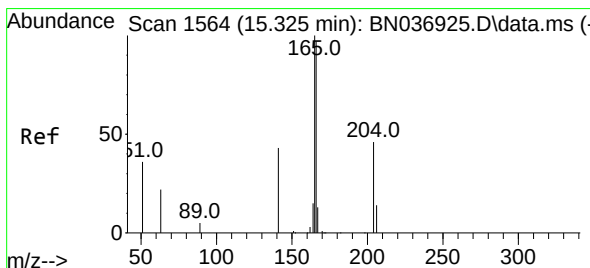
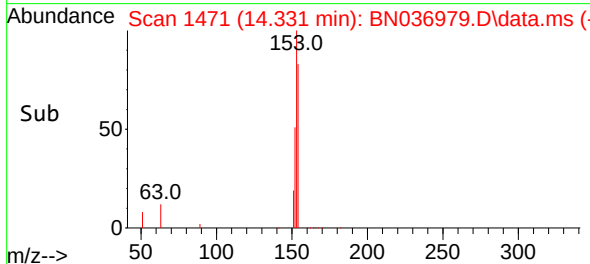
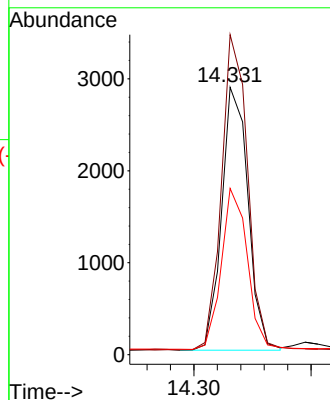
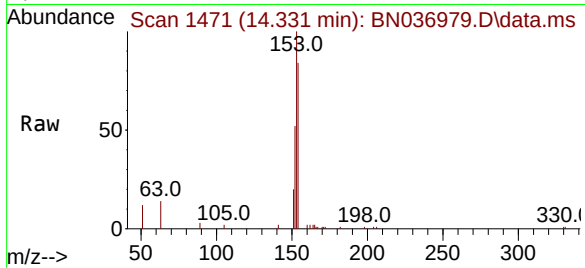




#17
Acenaphthene
Concen: 0.368 ng
RT: 14.331 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

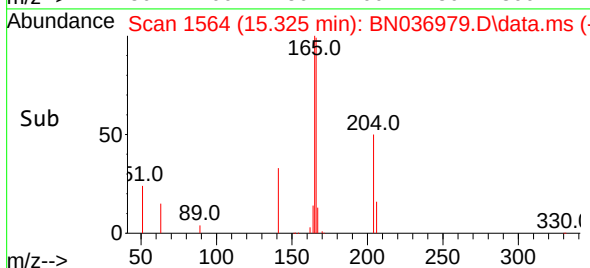
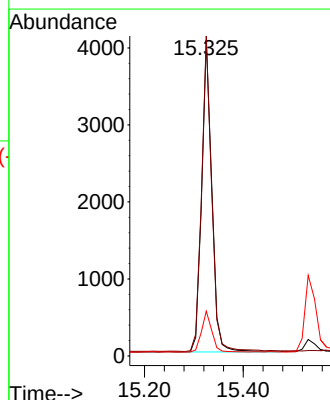
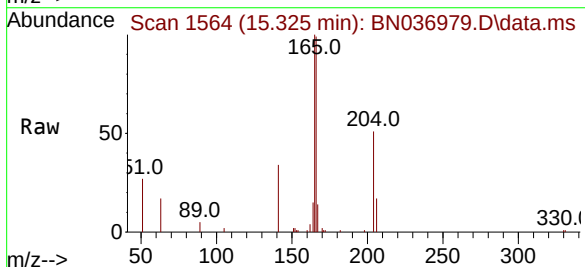
Instrument :
BNA_N
ClientSampleId :
PB167915BS

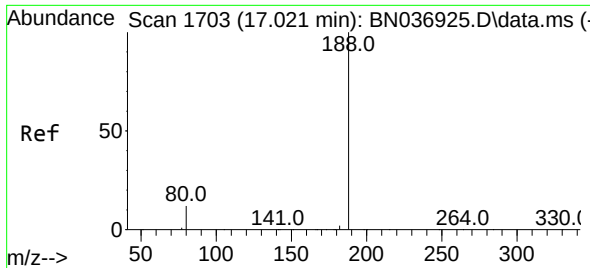
Tgt Ion:154 Resp: 4460
Ion Ratio Lower Upper
154 100
153 119.7 93.4 140.2
152 60.6 49.5 74.3



#18
Fluorene
Concen: 0.365 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion:166 Resp: 5786
Ion Ratio Lower Upper
166 100
165 100.6 80.8 121.2
167 13.4 10.8 16.2

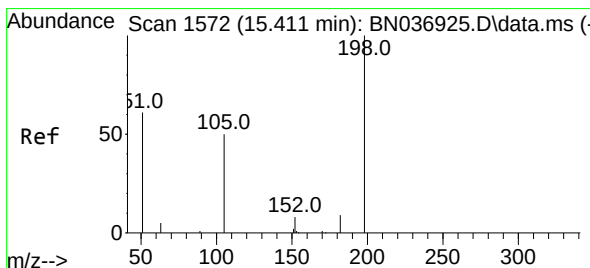
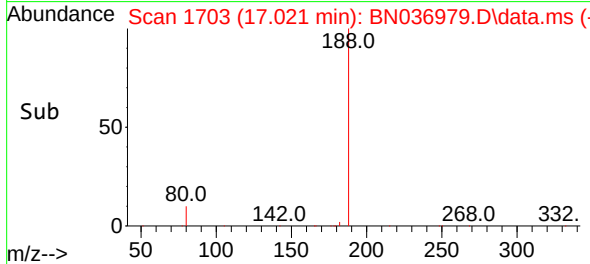
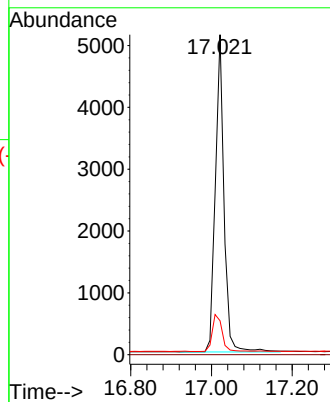
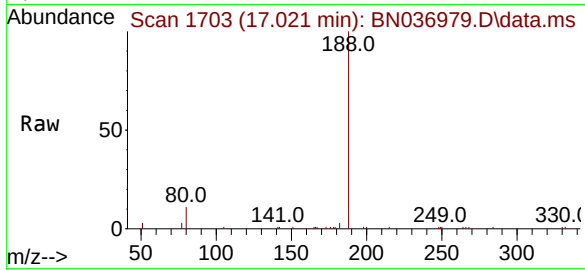




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

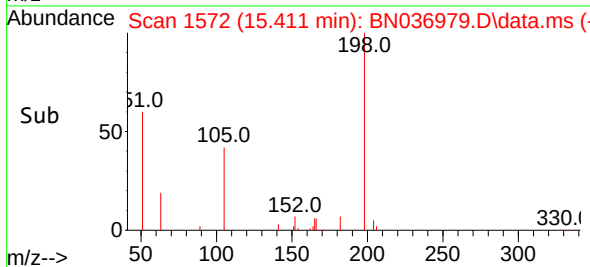
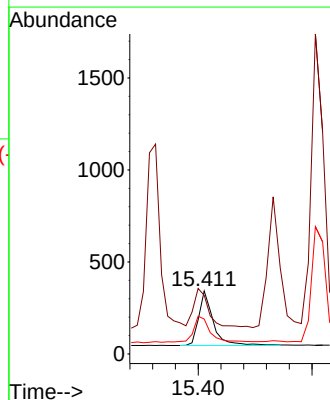
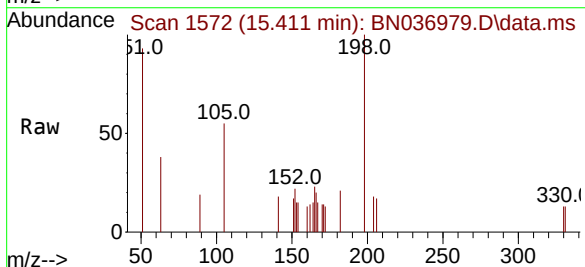
Instrument :
BNA_N
ClientSampleId :
PB167915BS

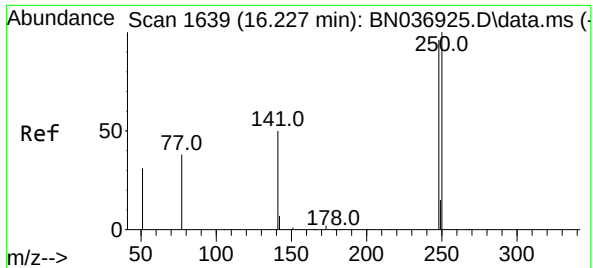
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.6	10.7	16.1#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.268 ng
RT: 15.411 min Scan# 1572
Delta R.T. -0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion	Ratio	Lower	Upper
198	100		
51	93.0	97.9	146.9#
105	55.4	50.0	75.0

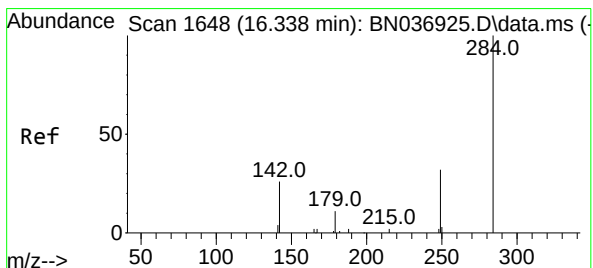
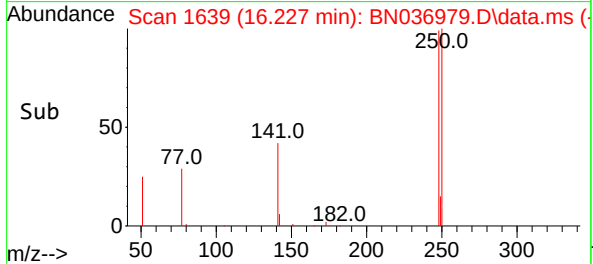
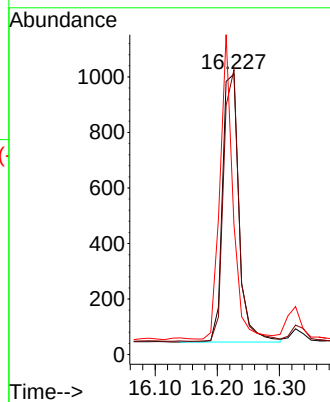
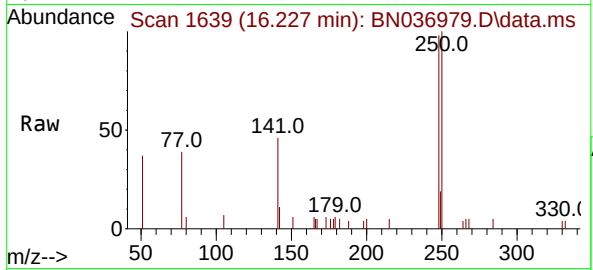




#21
4-Bromophenyl-phenylether
Concen: 0.348 ng
RT: 16.227 min Scan# 1639
Delta R.T. -0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

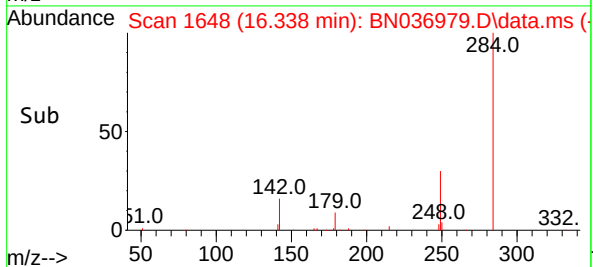
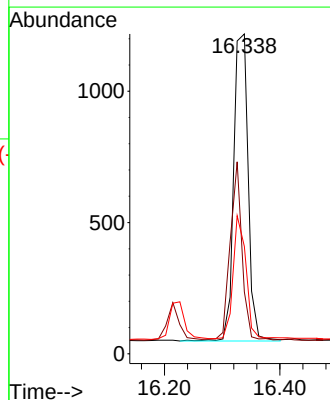
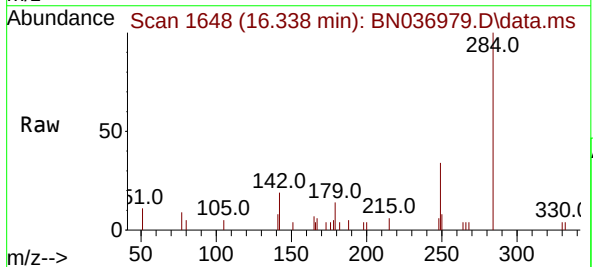
Instrument :
BNA_N
ClientSampleId :
PB167915BS

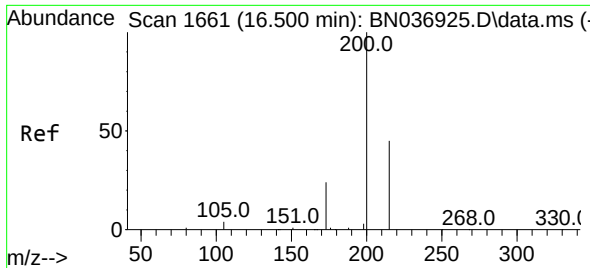
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.6	83.7	125.5
141	46.4	43.8	65.8



#22
Hexachlorobenzene
Concen: 0.364 ng
RT: 16.338 min Scan# 1648
Delta R.T. 0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion	Ratio	Lower	Upper
284	100		
142	47.1	40.0	60.0
249	36.7	28.2	42.2

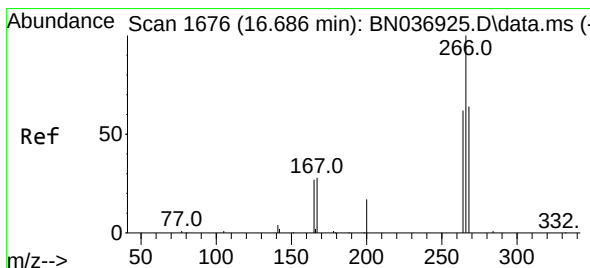
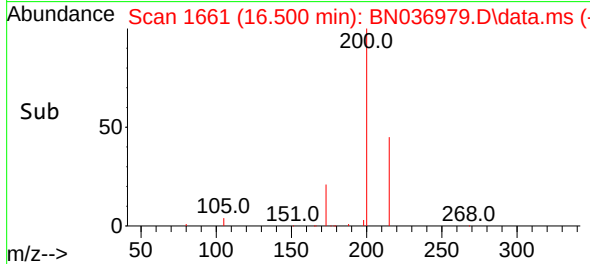
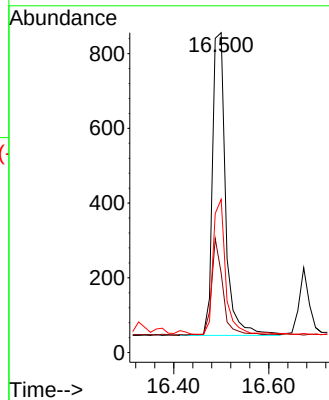
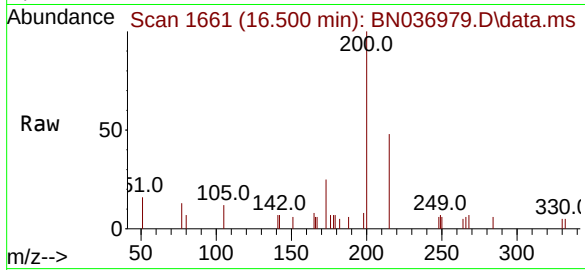




#23
Atrazine
Concen: 0.380 ng
RT: 16.500 min Scan# 1661
Delta R.T. -0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

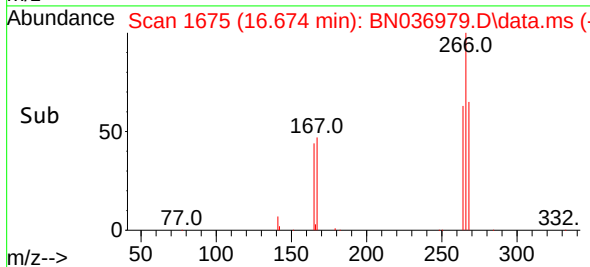
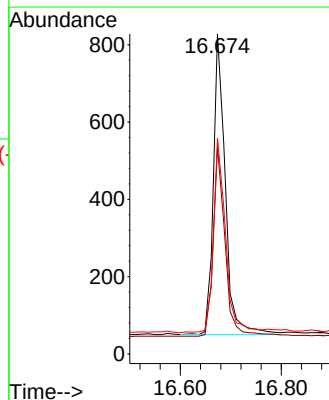
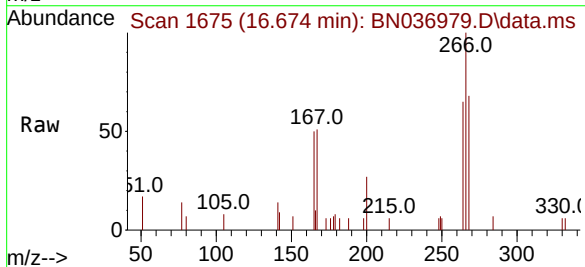
Instrument :
BNA_N
ClientSampleId :
PB167915BS

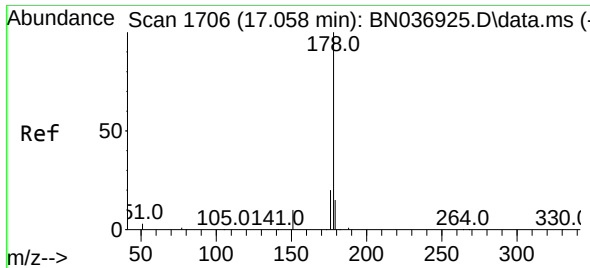
Tgt Ion	200	Resp:	1563
Ion	Ratio	Lower	Upper
200	100		
173	24.9	22.4	33.6
215	47.9	38.6	57.8



#24
Pentachlorophenol
Concen: 0.426 ng
RT: 16.674 min Scan# 1675
Delta R.T. -0.012 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion	266	Resp:	1278
Ion	Ratio	Lower	Upper
266	100		
264	62.0	49.9	74.9
268	67.2	52.2	78.4

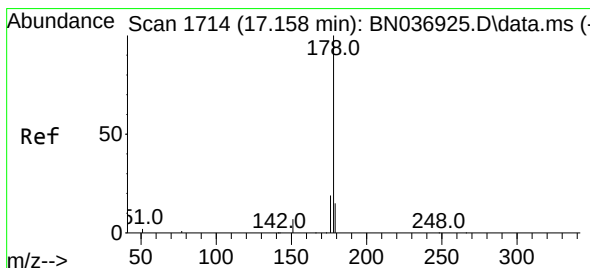
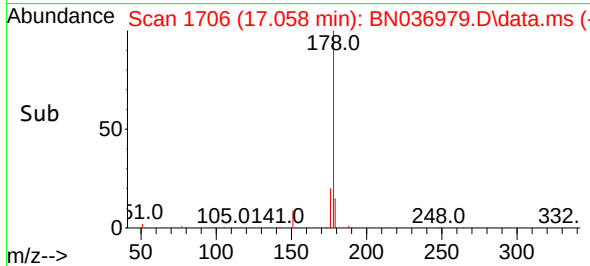
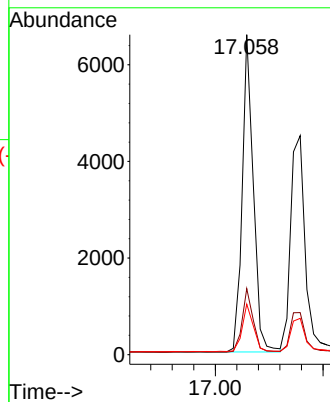
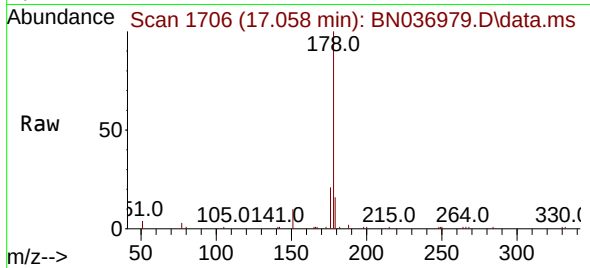




#25
Phenanthrene
Concen: 0.372 ng
RT: 17.058 min Scan# 1706
Delta R.T. 0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

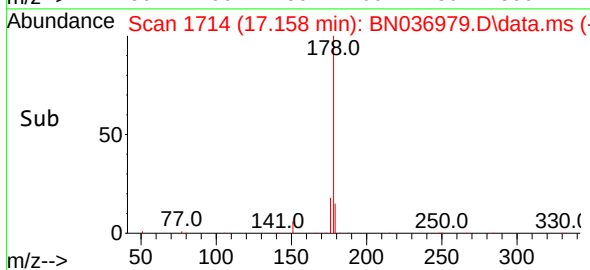
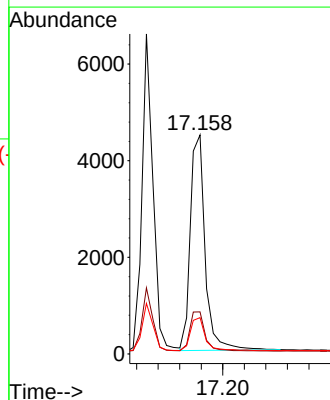
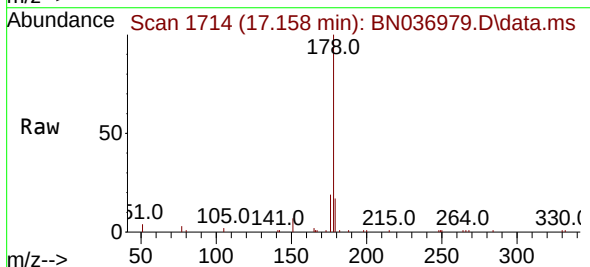
Instrument :
BNA_N
ClientSampleId :
PB167915BS

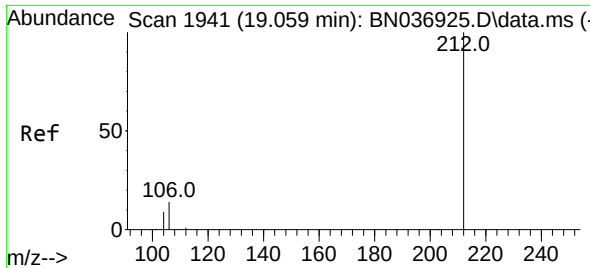
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.7	23.5
179	15.3	12.4	18.6



#26
Anthracene
Concen: 0.374 ng
RT: 17.158 min Scan# 1714
Delta R.T. 0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.3	22.9
179	15.5	12.1	18.1

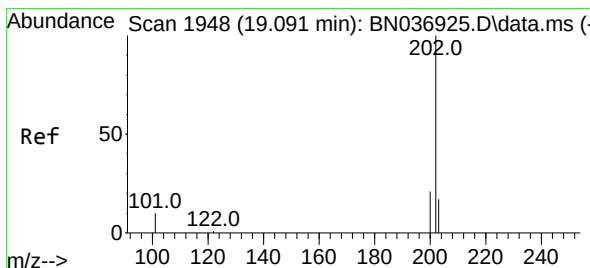
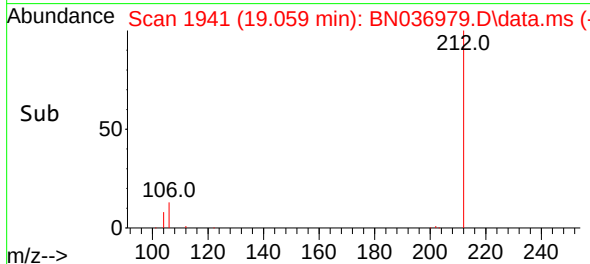
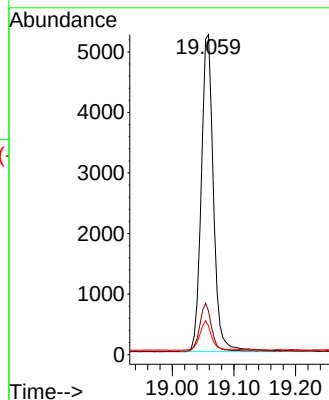
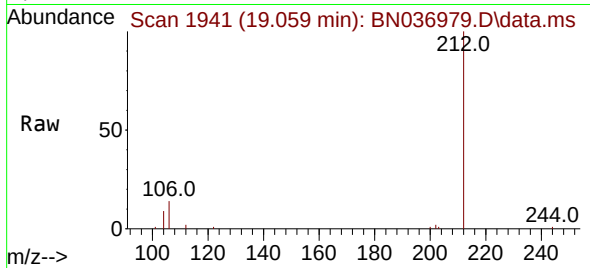




#27
Fluoranthene-d10
Concen: 0.365 ng
RT: 19.059 min Scan# 1941
Delta R.T. 0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

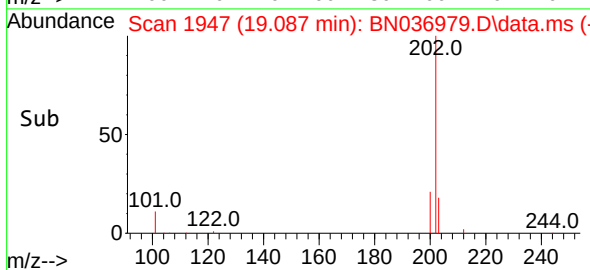
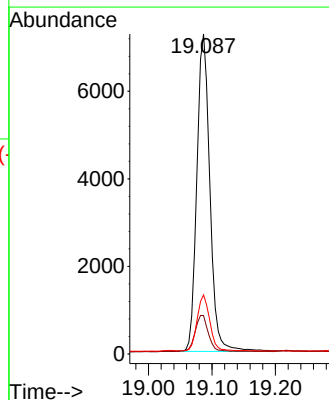
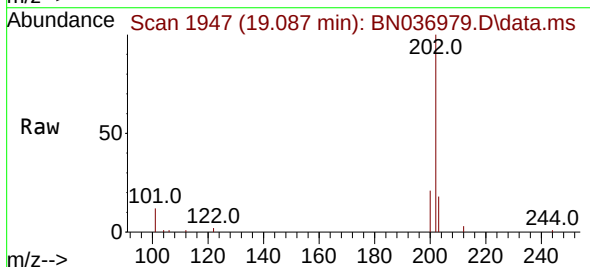
Instrument :
BNA_N
ClientSampleId :
PB167915BS

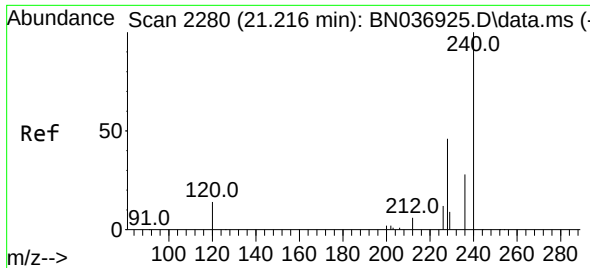
Tgt Ion	Ratio	Lower	Upper
212	100		
106	14.7	11.6	17.4
104	8.7	7.0	10.4



#28
Fluoranthene
Concen: 0.365 ng
RT: 19.087 min Scan# 1947
Delta R.T. -0.005 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.5	8.5	12.7
203	17.2	13.7	20.5

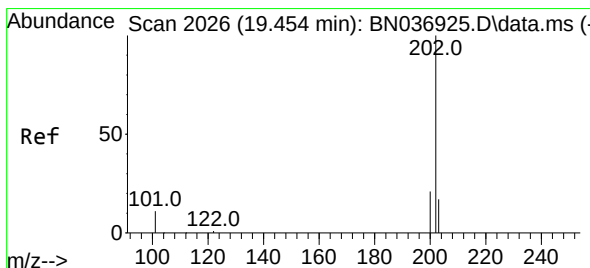
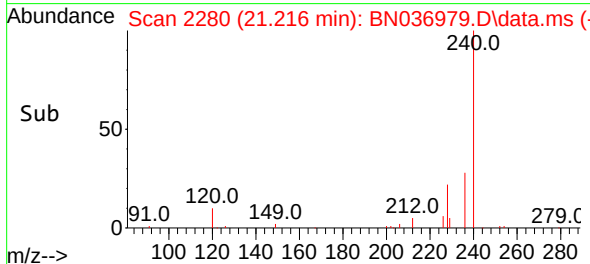
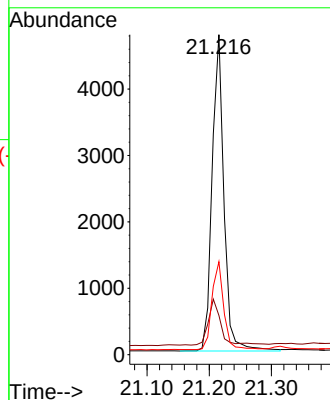
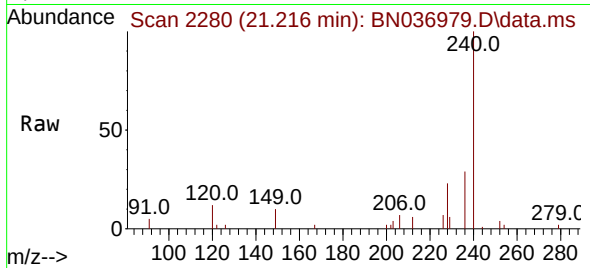




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.216 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

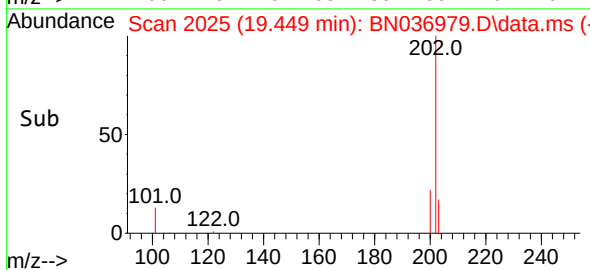
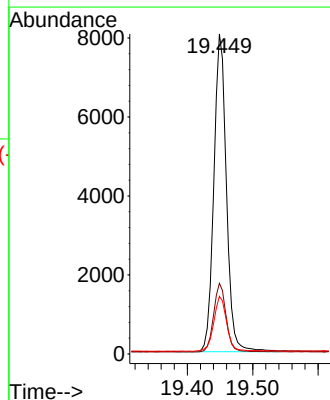
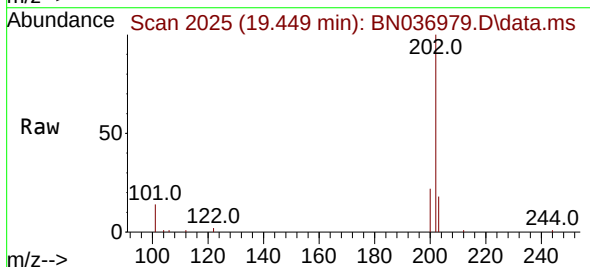
Instrument :
BNA_N
ClientSampleId :
PB167915BS

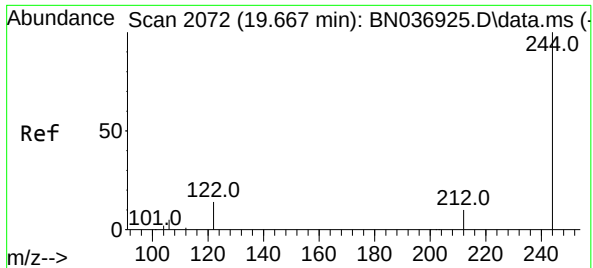
Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.2	14.1	21.1#
236	29.0	23.8	35.8



#30
Pyrene
Concen: 0.356 ng
RT: 19.449 min Scan# 2025
Delta R.T. -0.005 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.6
203	17.5	14.0	21.0

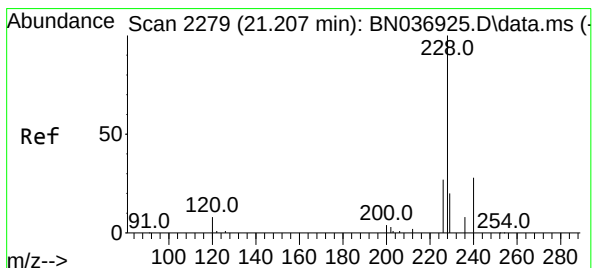
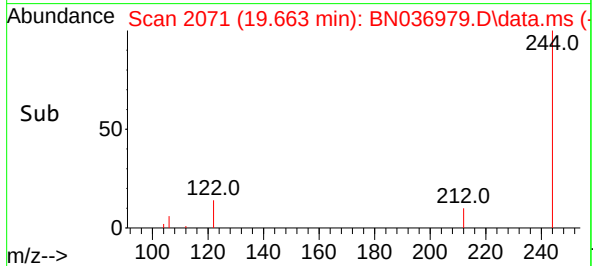
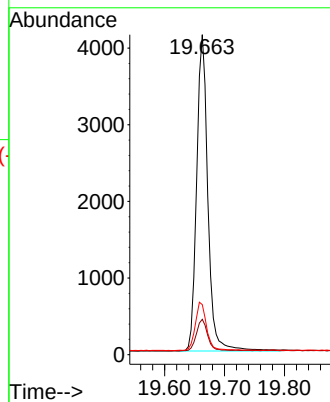
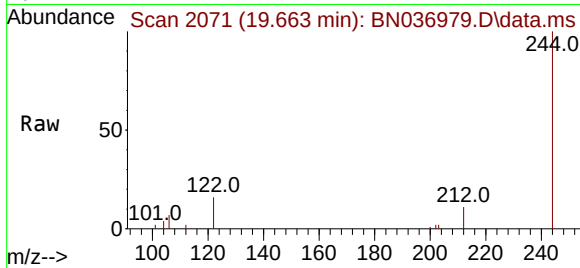




#31
Terphenyl-d14
Concen: 0.363 ng
RT: 19.663 min Scan# 2072
Delta R.T. -0.005 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

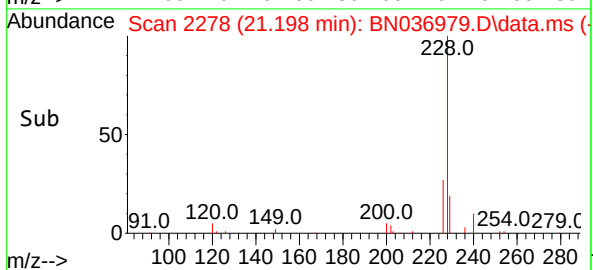
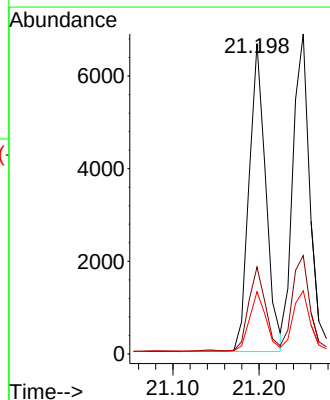
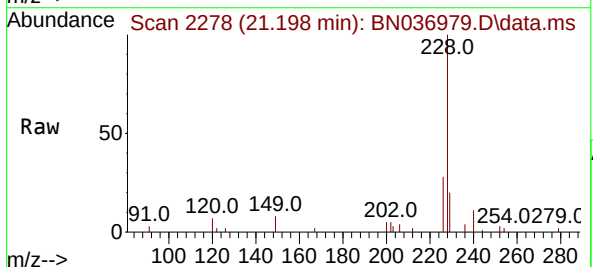
Instrument :
BNA_N
ClientSampleId :
PB167915BS

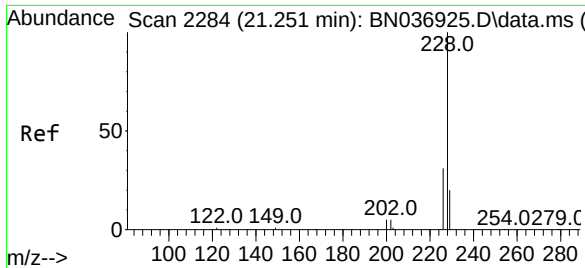
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.1	9.6	14.4
122	15.6	12.7	19.1



#32
Benzo(a)anthracene
Concen: 0.389 ng
RT: 21.198 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.2	33.4
229	20.1	16.4	24.6

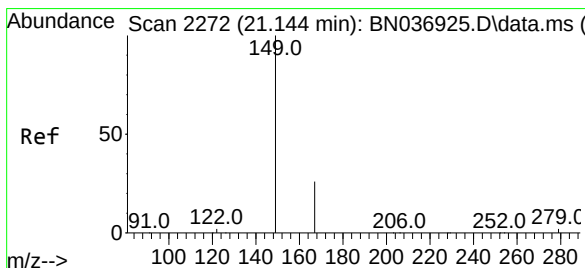
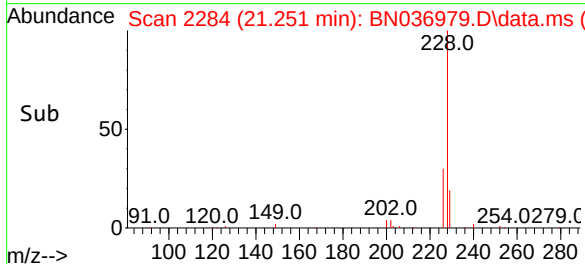
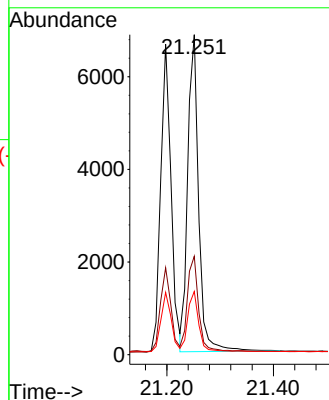
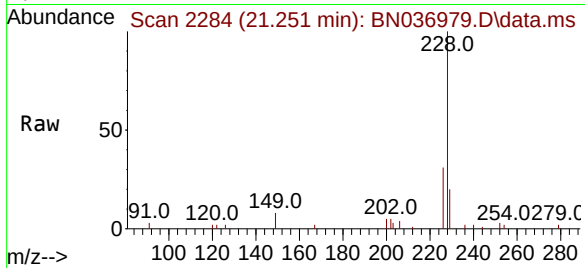




#33
Chrysene
Concen: 0.391 ng
RT: 21.251 min Scan# 211
Delta R.T. -0.000 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

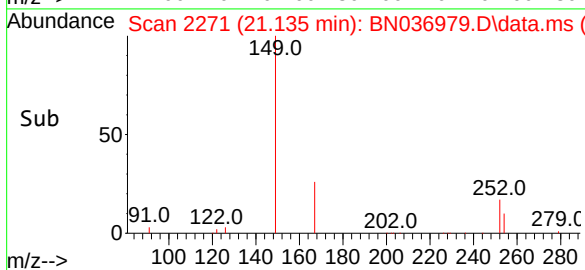
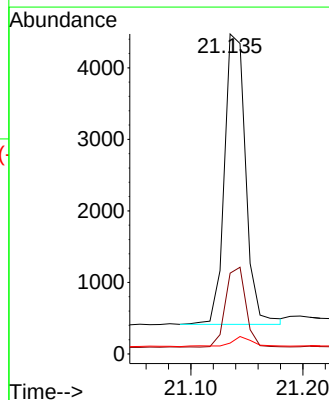
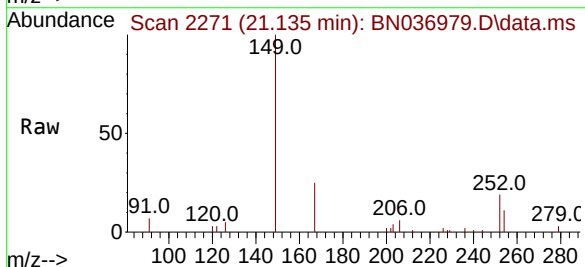
Instrument :
BNA_N
ClientSampleId :
PB167915BS

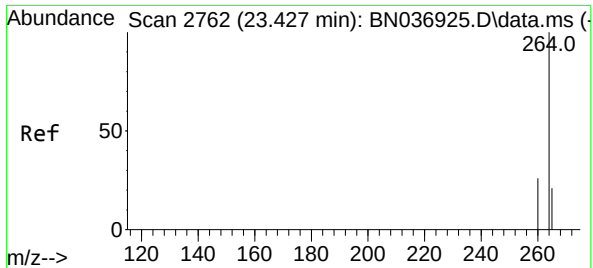
Tgt Ion	Ratio	Lower	Upper
228	100		
226	30.7	25.5	38.3
229	19.7	16.5	24.7



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.408 ng
RT: 21.135 min Scan# 2271
Delta R.T. -0.009 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.3	21.0	31.6
279	3.7	2.7	4.1

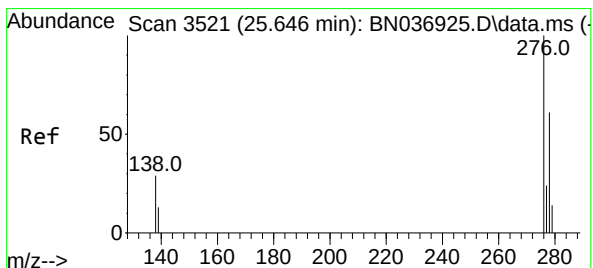
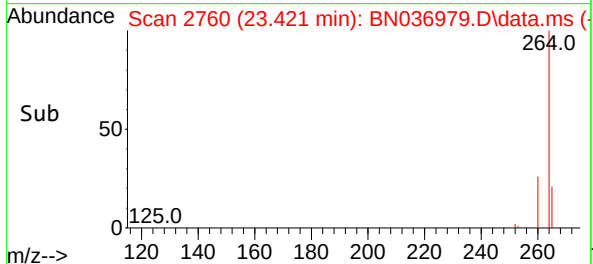
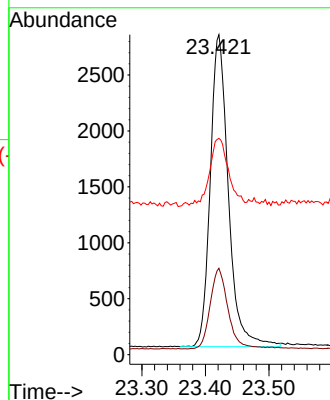
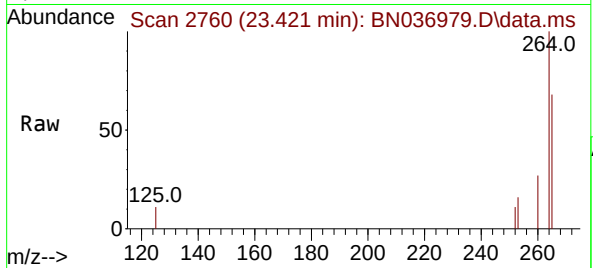




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.421 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

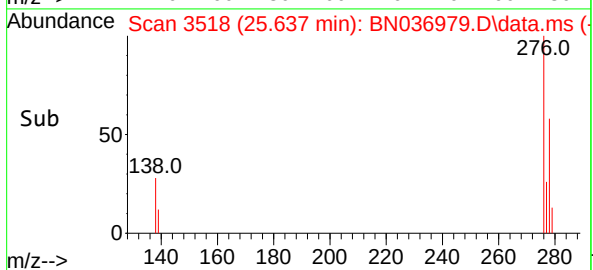
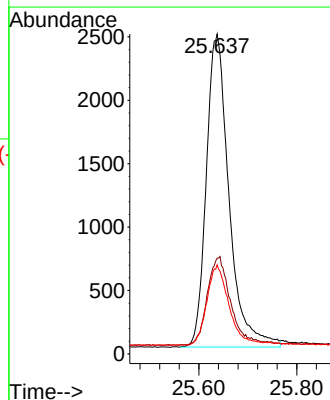
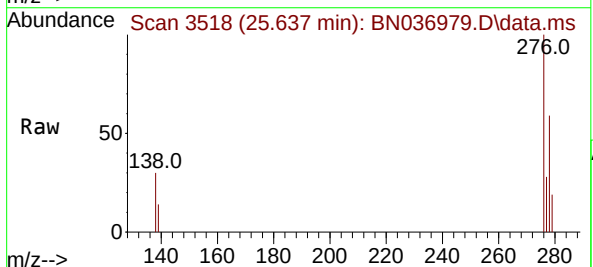
Instrument :
BNA_N
ClientSampleId :
PB167915BS

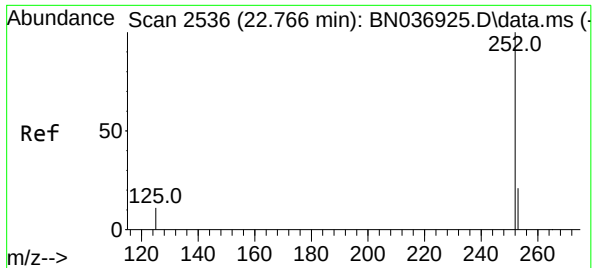
Tgt Ion:264 Resp: 5504
Ion Ratio Lower Upper
264 100
260 27.0 22.2 33.2
265 67.6 65.8 98.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.353 ng
RT: 25.637 min Scan# 3518
Delta R.T. -0.009 min
Lab File: BN036979.D
Acq: 08 May 2025 18:41

Tgt Ion:276 Resp: 7939
Ion Ratio Lower Upper
276 100
138 29.1 23.0 34.6
277 25.0 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.360 ng

RT: 22.760 min Scan# 2548

Delta R.T. -0.006 min

Lab File: BN036979.D

Acq: 08 May 2025 18:41

Instrument :

BNA_N

ClientSampleId :

PB167915BS

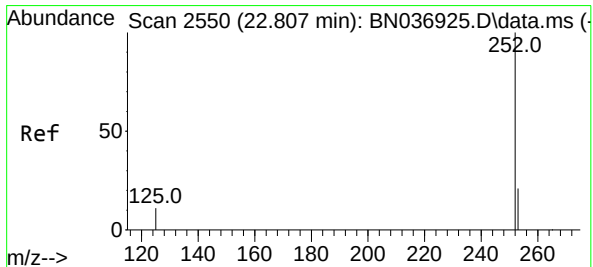
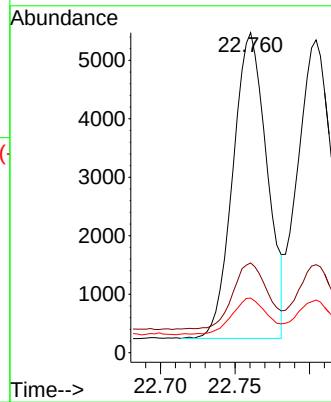
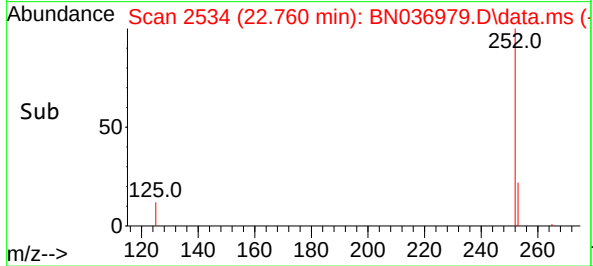
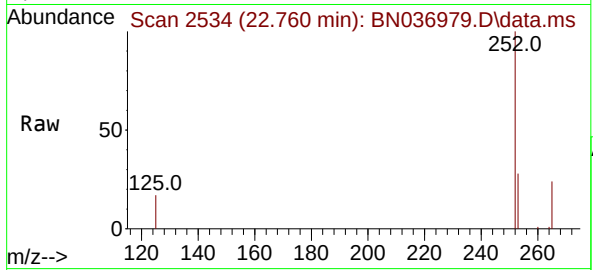
Tgt Ion:252 Resp: 8326

Ion Ratio Lower Upper

252 100

253 28.0 22.1 33.1

125 17.0 14.2 21.2



#38

Benzo(k)fluoranthene

Concen: 0.376 ng

RT: 22.804 min Scan# 2549

Delta R.T. -0.003 min

Lab File: BN036979.D

Acq: 08 May 2025 18:41

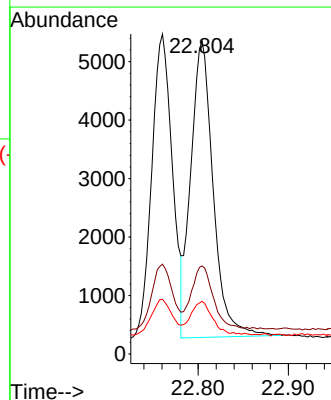
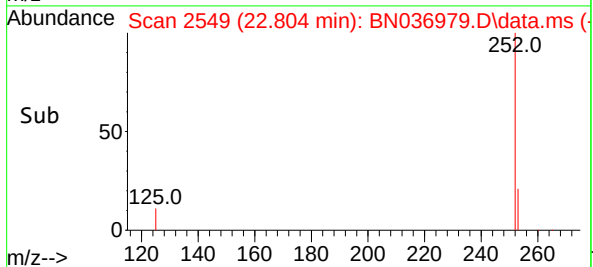
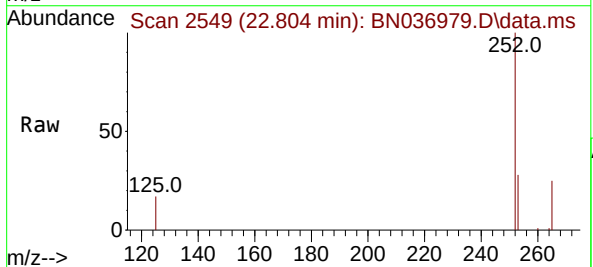
Tgt Ion:252 Resp: 8759

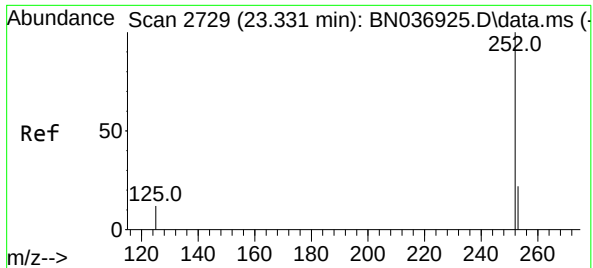
Ion Ratio Lower Upper

252 100

253 28.1 22.8 34.2

125 16.8 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.389 ng

RT: 23.325 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036979.D

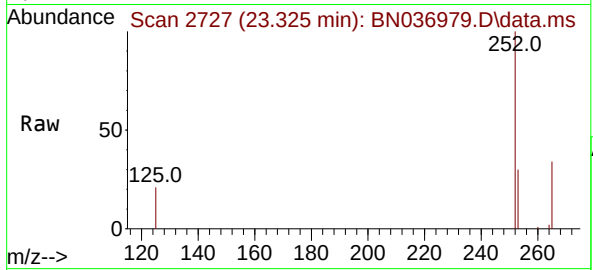
Acq: 08 May 2025 18:41

Instrument :

BNA_N

ClientSampleId :

PB167915BS



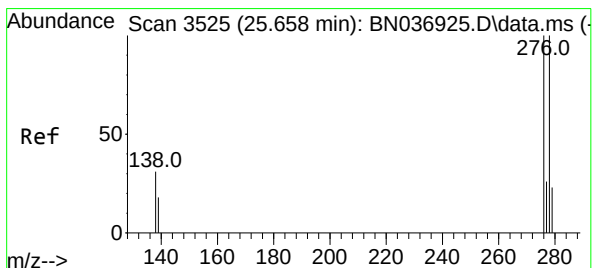
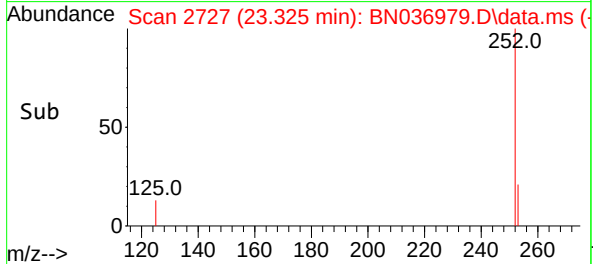
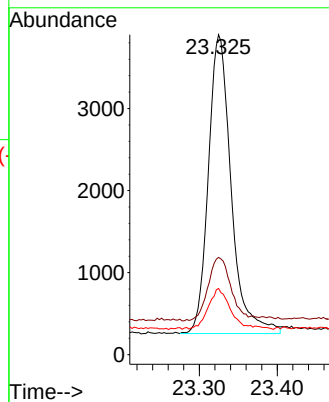
Tgt Ion:252 Resp: 7401

Ion Ratio Lower Upper

252 100

253 30.4 25.9 38.9

125 20.7 17.4 26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.345 ng

RT: 25.652 min Scan# 3523

Delta R.T. -0.006 min

Lab File: BN036979.D

Acq: 08 May 2025 18:41

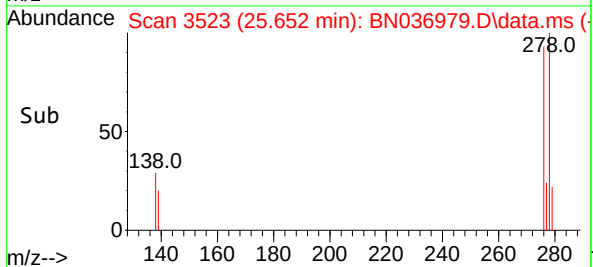
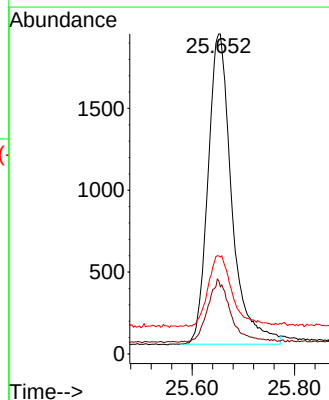
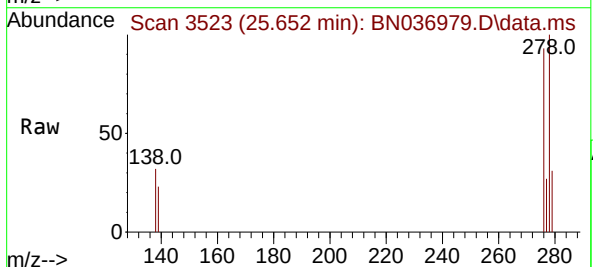
Tgt Ion:278 Resp: 6108

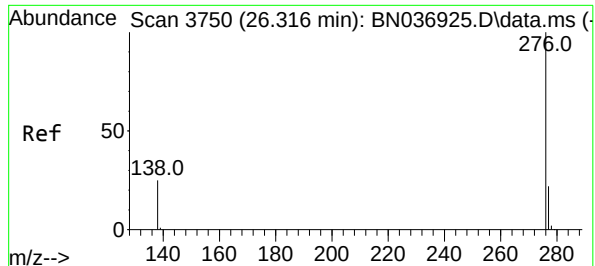
Ion Ratio Lower Upper

278 100

139 22.9 17.4 26.2

279 30.6 24.9 37.3





#41

Benzo(g,h,i)perylene

Concen: 0.313 ng

RT: 26.313 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN036979.D

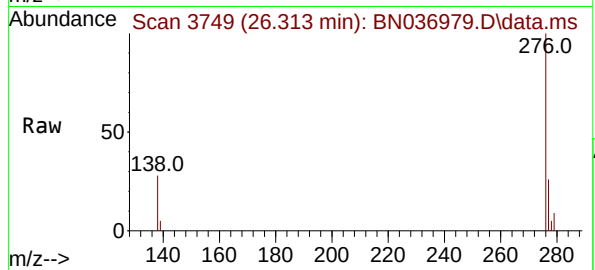
Acq: 08 May 2025 18:41

Instrument :

BNA_N

ClientSampleId :

PB167915BS



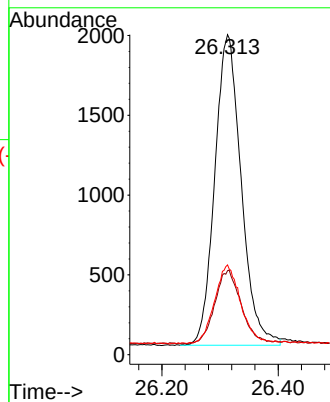
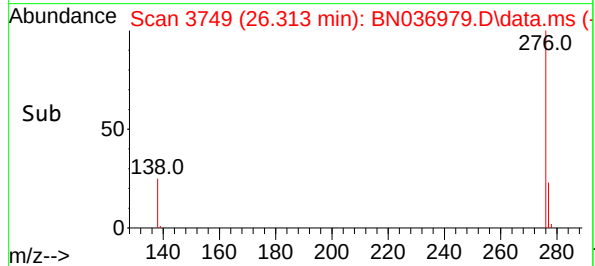
Tgt Ion:276 Resp: 6141

Ion Ratio Lower Upper

276 100

277 26.2 20.2 30.2

138 28.1 21.9 32.9



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	05/01/25
Project:	NJ Soil PT		Date Received:	05/01/25
Client Sample ID:	GB2BMS		SDG No.:	Q1872
Lab Sample ID:	Q1939-04MS		Matrix:	SOIL
Analytical Method:	SW8270ESIM		% Solid:	85.4
Sample Wt/Vol:	30.02	Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group3
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036975.D	1	05/08/25 10:03	05/08/25 16:16	PB167915

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	14.6		1.40	3.90	ug/Kg
91-57-6	2-Methylnaphthalene	16.4		1.40	3.90	ug/Kg
208-96-8	Acenaphthylene	15.3		1.30	3.90	ug/Kg
83-32-9	Acenaphthene	15.1		1.30	3.90	ug/Kg
86-73-7	Fluorene	15.8		1.30	3.90	ug/Kg
85-01-8	Phenanthrene	17.1		1.40	3.90	ug/Kg
120-12-7	Anthracene	15.1		1.40	3.90	ug/Kg
206-44-0	Fluoranthene	15.1		1.40	3.90	ug/Kg
129-00-0	Pyrene	13.9		1.30	3.90	ug/Kg
56-55-3	Benzo(a)anthracene	15.3		1.50	3.90	ug/Kg
218-01-9	Chrysene	15.5		1.60	3.90	ug/Kg
205-99-2	Benzo(b)fluoranthene	14.1		1.80	3.90	ug/Kg
207-08-9	Benzo(k)fluoranthene	14.5		2.20	3.90	ug/Kg
50-32-8	Benzo(a)pyrene	15.3		1.70	3.90	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	15.1		2.10	3.90	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	14.5		2.10	3.90	ug/Kg
191-24-2	Benzo(g,h,i)perylene	13.6		2.00	3.90	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.22		17 - 161	55%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.23		23 - 138	57%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.22		33 - 121	55%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.19		32 - 121	49%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.20		21 - 130	50%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1700		7.625		
1146-65-2	Naphthalene-d8	4360		10.404		
15067-26-2	Acenaphthene-d10	2390		14.277		
1517-22-2	Phenanthrene-d10	5060		17.021		
1719-03-5	Chrysene-d12	4470		21.215		



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

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	05/01/25
Project:	NJ Soil PT		Date Received:	05/01/25
Client Sample ID:	GB2BMS		SDG No.:	Q1872
Lab Sample ID:	Q1939-04MS		Matrix:	SOIL
Analytical Method:	SW8270ESIM		% Solid:	85.4
Sample Wt/Vol:	30.02	Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group3
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036975.D	1	05/08/25 10:03	05/08/25 16:16	PB167915

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1520-96-3	Perylene-d12	4300	23.424			

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\BN050825\
 Data File : BN036975.D
 Acq On : 08 May 2025 16:16
 Operator : RC/JU
 Sample : Q1939-04MS
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 GB2BMS

Quant Time: May 08 16:43:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

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

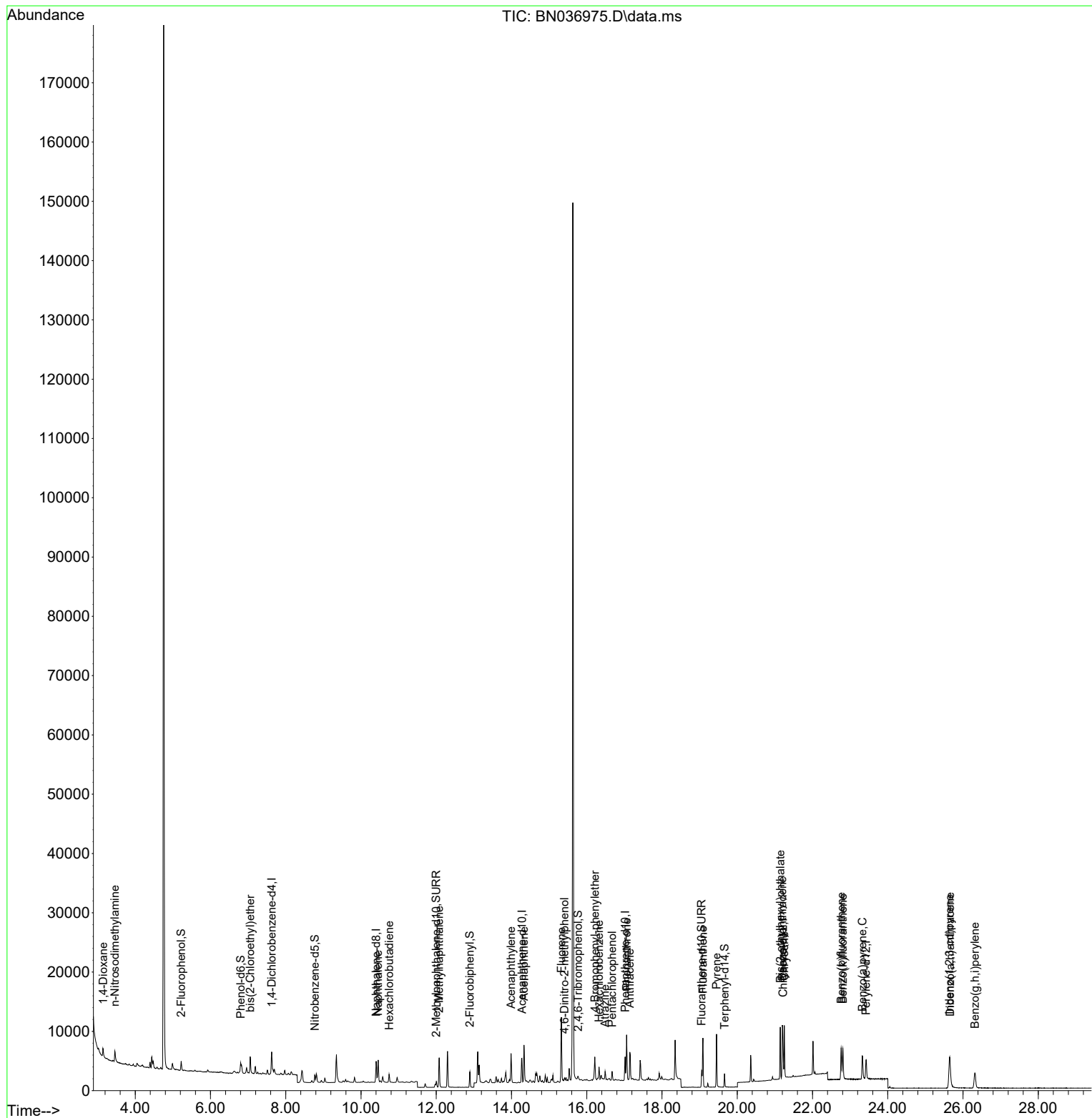
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.625	152	1704	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	4360	0.400	ng	#-0.01
13) Acenaphthene-d10	14.277	164	2385	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	5063	0.400	ng	# 0.00
29) Chrysene-d12	21.215	240	4471	0.400	ng	# 0.00
35) Perylene-d12	23.424	264	4298	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	1017	0.233	ng	0.00
5) Phenol-d6	6.802	99	1298	0.242	ng	0.00
8) Nitrobenzene-d5	8.771	82	1005	0.220	ng	-0.01
11) 2-Methylnaphthalene-d10	12.001	152	1345	0.221	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	238	0.224	ng	0.00
15) 2-Fluorobiphenyl	12.893	172	2233	0.194	ng	0.00
27) Fluoranthene-d10	19.054	212	3006	0.229	ng	0.00
31) Terphenyl-d14	19.663	244	2092	0.198	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.148	88	719	0.339	ng	# 11
3) n-Nitrosodimethylamine	3.458	42	1767	0.429	ng	90
6) bis(2-Chloroethyl)ether	7.055	93	1918	0.386	ng	99
9) Naphthalene	10.458	128	4753	0.375	ng	100
10) Hexachlorobutadiene	10.746	225	1025	0.373	ng	# 98
12) 2-Methylnaphthalene	12.077	142	3444	0.420	ng	99
16) Acenaphthylene	13.989	152	4556	0.391	ng	97
17) Acenaphthene	14.331	154	2973	0.388	ng	98
18) Fluorene	15.325	166	4067	0.406	ng	99
20) 4,6-Dinitro-2-methylph...	15.410	198	432	0.322	ng	# 73
21) 4-Bromophenyl-phenylether	16.214	248	1264	0.374	ng	# 67
22) Hexachlorobenzene	16.326	284	1266	0.342	ng	96
23) Atrazine	16.487	200	1110	0.407	ng	# 92
24) Pentachlorophenol	16.673	266	623	0.314	ng	98
25) Phenanthrene	17.058	178	7313	0.438	ng	99
26) Anthracene	17.145	178	5839	0.386	ng	99
28) Fluoranthene	19.087	202	7262	0.388	ng	99
30) Pyrene	19.449	202	7672	0.356	ng	99
32) Benzo(a)anthracene	21.198	228	6467	0.393	ng	98
33) Chrysene	21.251	228	7045	0.397	ng	99
34) Bis(2-ethylhexyl)phtha...	21.144	149	6904	0.737	ng	99
36) Indeno(1,2,3-cd)pyrene	25.637	276	6779	0.386	ng	99
37) Benzo(b)fluoranthene	22.760	252	6538	0.362	ng	98
38) Benzo(k)fluoranthene	22.807	252	6781	0.373	ng	100
39) Benzo(a)pyrene	23.328	252	5810	0.391	ng	96
40) Dibenzo(a,h)anthracene	25.655	278	5158	0.373	ng	99
41) Benzo(g,h,i)perylene	26.318	276	5341	0.348	ng	98

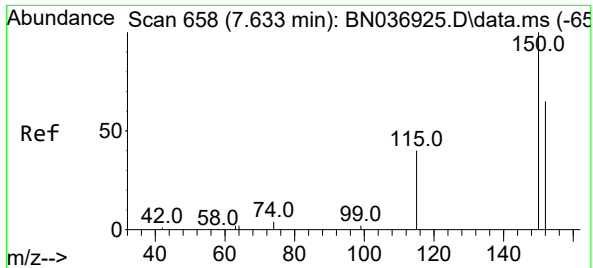
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050825\
Data File : BN036975.D
Acq On : 08 May 2025 16:16
Operator : RC/JU
Sample : Q1939-04MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
GB2BMS

Quant Time: May 08 16:43:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration

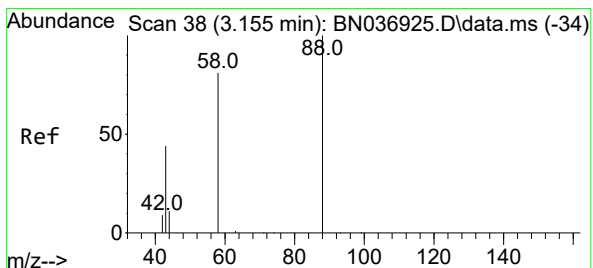
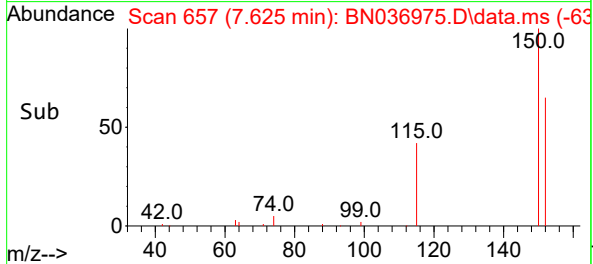
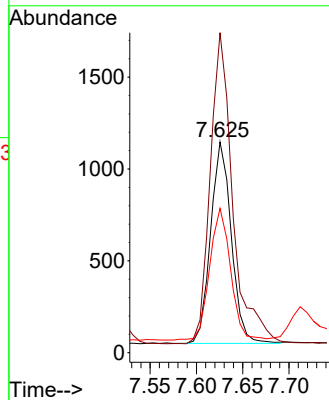
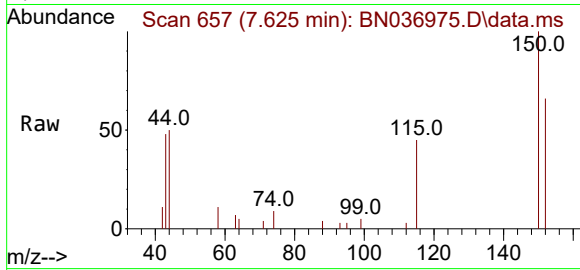




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.625 min Scan# 61
Delta R.T. -0.008 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

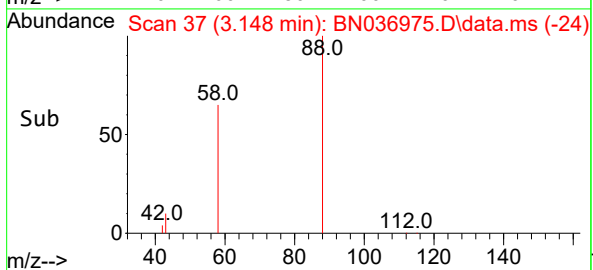
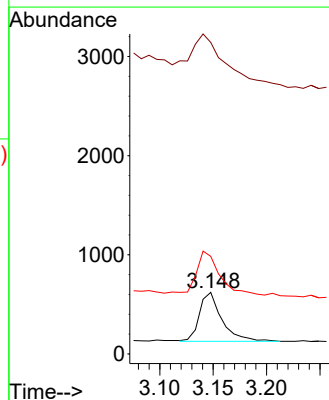
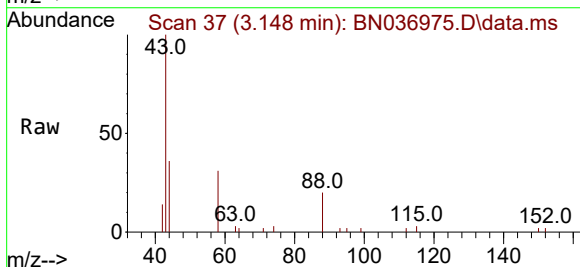
Instrument :
BNA_N
ClientSampleId :
GB2BMS

Tgt Ion:152 Resp: 1704
Ion Ratio Lower Upper
152 100
150 151.9 121.1 181.7
115 68.5 51.8 77.6

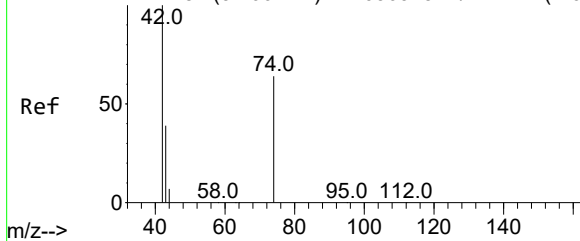


#2
1,4-Dioxane
Concen: 0.339 ng
RT: 3.148 min Scan# 37
Delta R.T. -0.007 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion: 88 Resp: 719
Ion Ratio Lower Upper
88 100
43 187.6 37.9 56.9#
58 99.9 65.8 98.6#



Abundance Scan 81 (3.466 min): BN036925.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.429 ng

RT: 3.458 min Scan# 80

Delta R.T. -0.007 min

Lab File: BN036975.D

Acq: 08 May 2025 16:16

Instrument :

BNA_N

ClientSampleId :

GB2BMS

Tgt Ion: 42 Resp: 1767

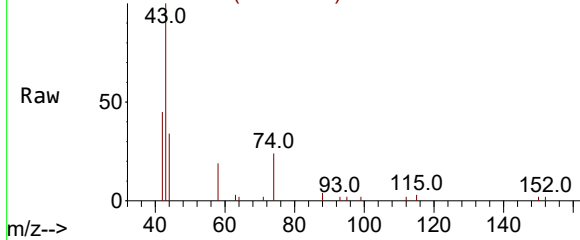
Ion Ratio Lower Upper

42 100

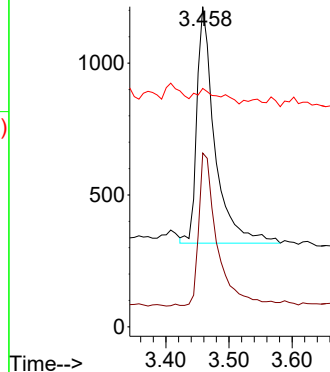
74 65.7 59.9 89.9

44 8.8 7.5 11.3

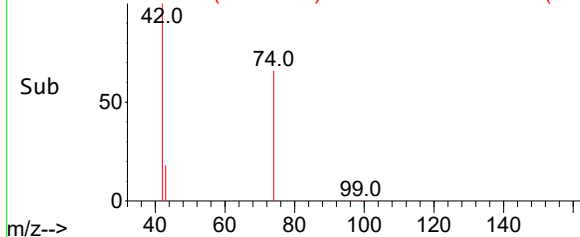
Abundance Scan 80 (3.458 min): BN036975.D\data.ms



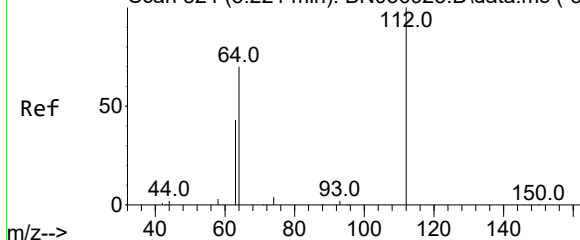
Abundance



Abundance Scan 80 (3.458 min): BN036975.D\data.ms (-60)



Abundance Scan 324 (5.221 min): BN036925.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.233 ng

RT: 5.220 min Scan# 324

Delta R.T. -0.000 min

Lab File: BN036975.D

Acq: 08 May 2025 16:16

Tgt Ion: 112 Resp: 1017

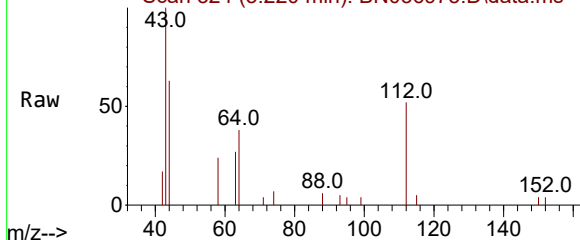
Ion Ratio Lower Upper

112 100

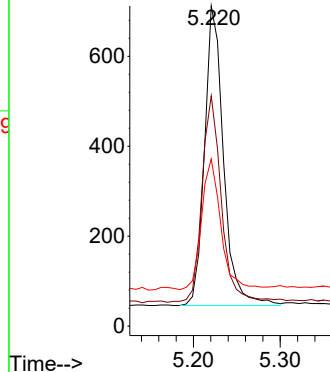
64 71.0 55.7 83.5

63 44.1 33.9 50.9

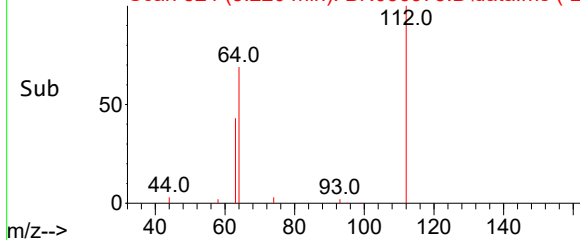
Abundance Scan 324 (5.220 min): BN036975.D\data.ms

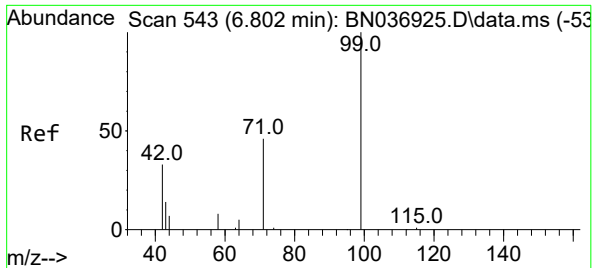


Abundance



Abundance Scan 324 (5.220 min): BN036975.D\data.ms (-29)

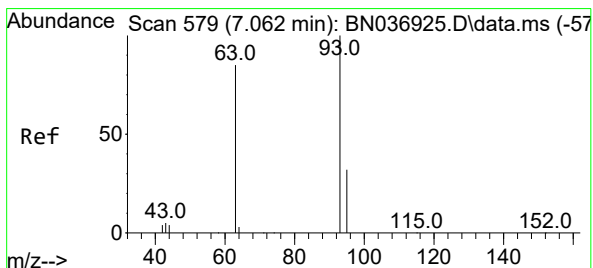
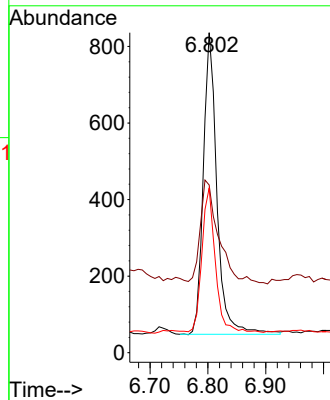
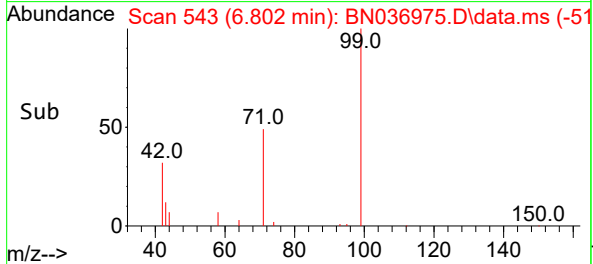
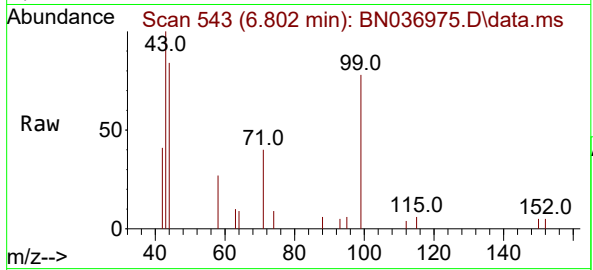




#5
Phenol-d6
Concen: 0.242 ng
RT: 6.802 min Scan# 543
Delta R.T. -0.000 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

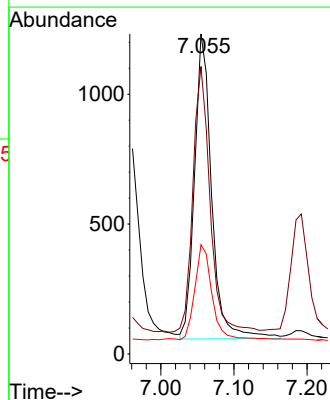
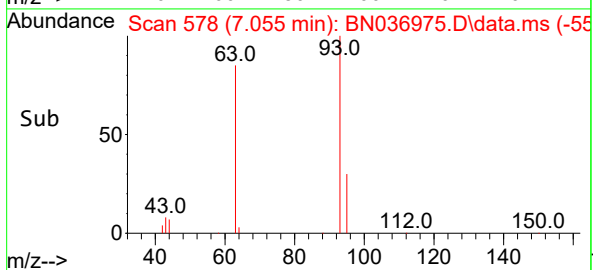
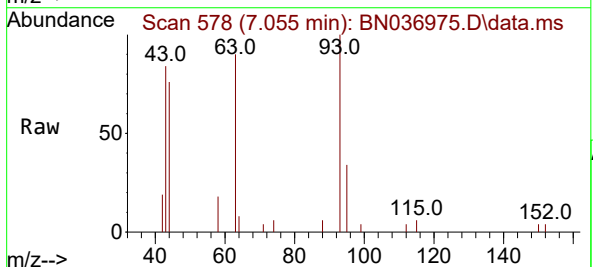
Instrument :
BNA_N
ClientSampleId :
GB2BMS

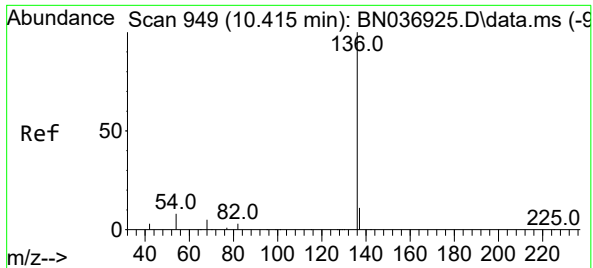
Tgt Ion: 99 Resp: 1298
Ion Ratio Lower Upper
99 100
42 46.3 29.6 44.4#
71 47.3 36.0 54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.386 ng
RT: 7.055 min Scan# 578
Delta R.T. -0.007 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion: 93 Resp: 1918
Ion Ratio Lower Upper
93 100
63 86.5 69.0 103.6
95 33.7 25.4 38.0

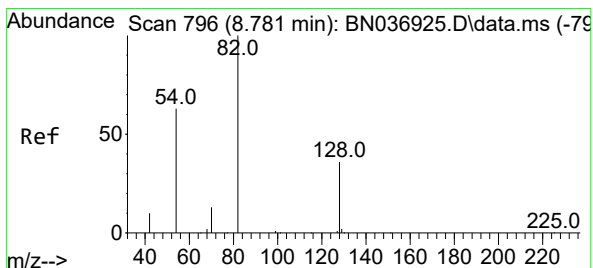
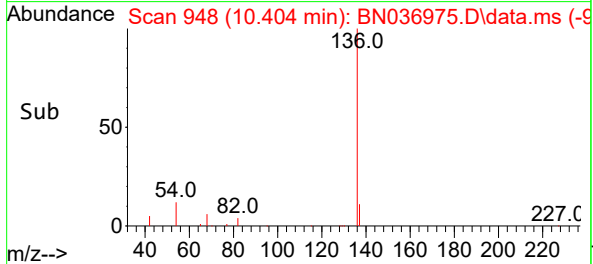
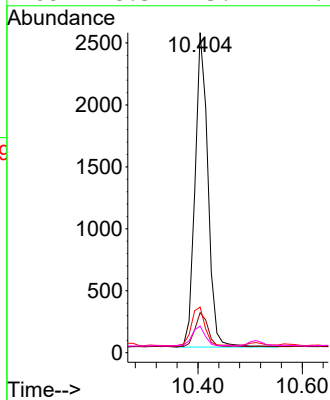
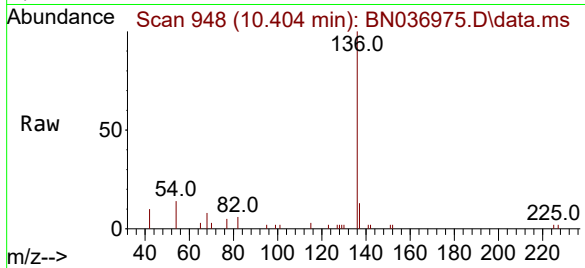




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

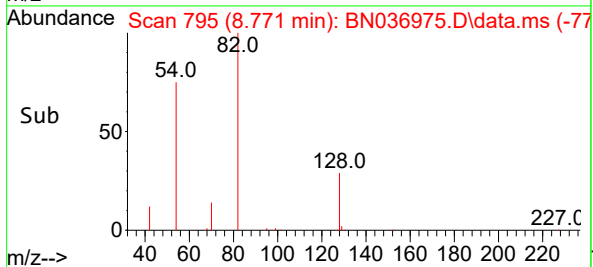
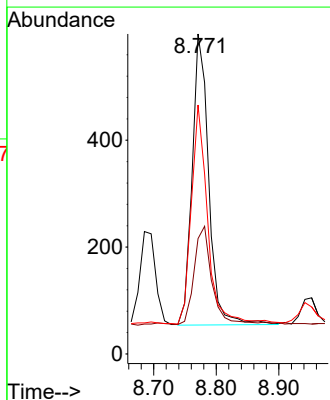
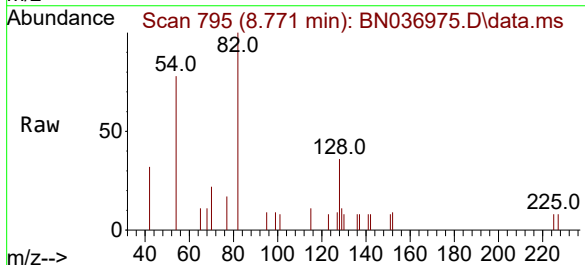
Instrument :
BNA_N
ClientSampleId :
GB2BMS

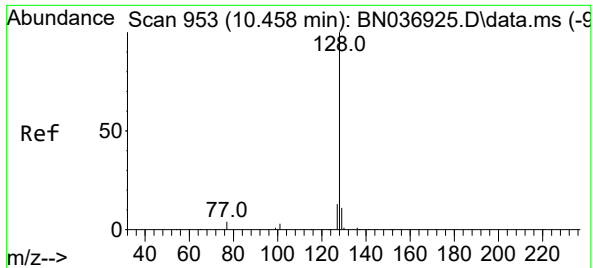
Tgt Ion:136 Resp: 4360
Ion Ratio Lower Upper
136 100
137 12.5 9.7 14.5
54 14.2 8.0 12.0#
68 8.3 5.1 7.7#



#8
Nitrobenzene-d5
Concen: 0.220 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.011 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion: 82 Resp: 1005
Ion Ratio Lower Upper
82 100
128 36.1 30.7 46.1
54 77.8 52.1 78.1

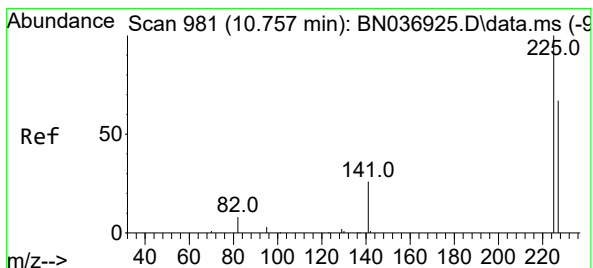
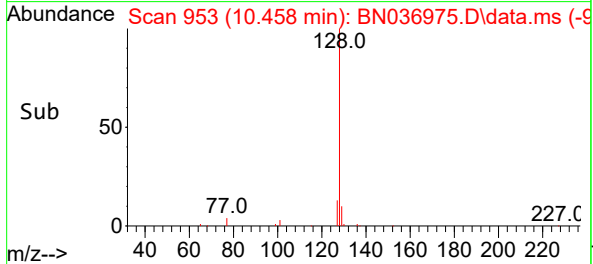
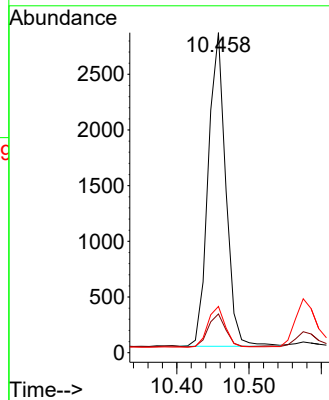
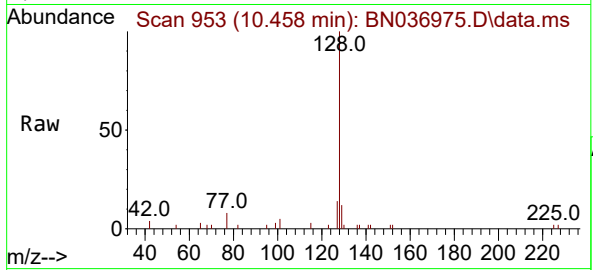




#9
Naphthalene
Concen: 0.375 ng
RT: 10.458 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

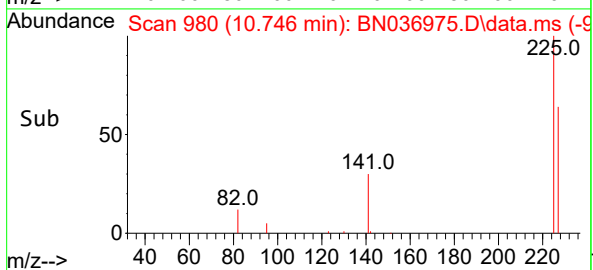
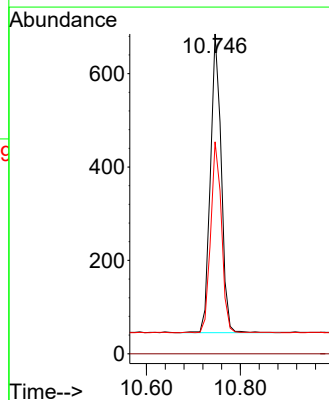
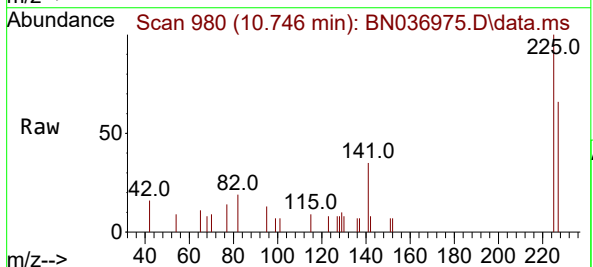
Instrument :
BNA_N
ClientSampleId :
GB2BMS

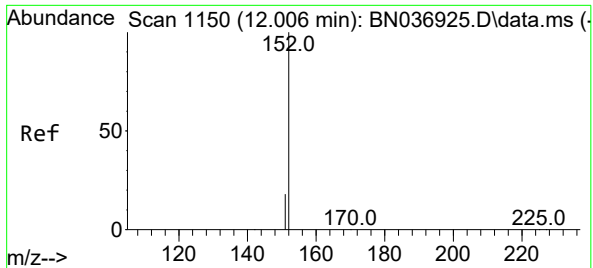
Tgt Ion:128 Resp: 4753
Ion Ratio Lower Upper
128 100
129 12.1 9.8 14.6
127 14.5 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.373 ng
RT: 10.746 min Scan# 980
Delta R.T. -0.011 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion:225 Resp: 1025
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.9 52.2 78.4

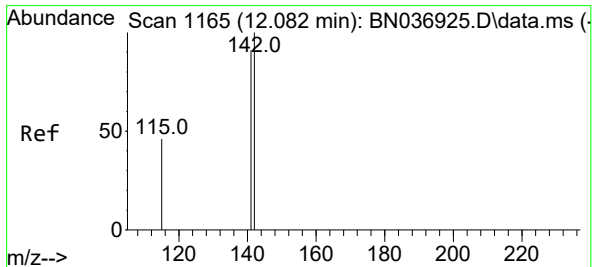
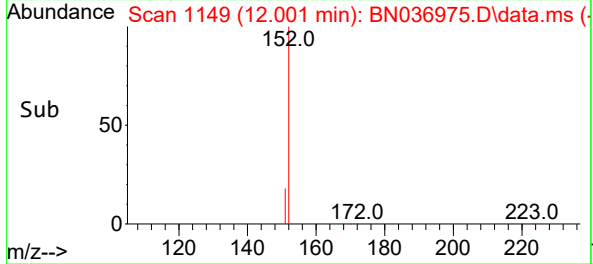
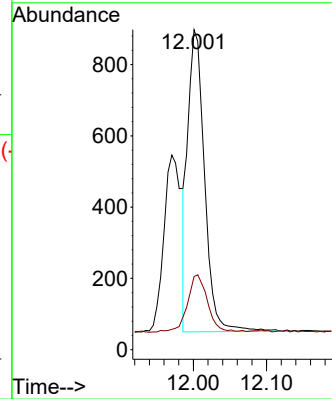
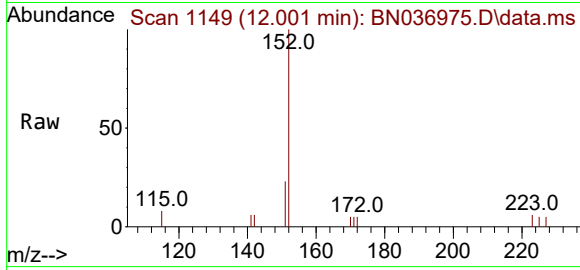




#11
2-Methylnaphthalene-d10
Concen: 0.221 ng
RT: 12.001 min Scan# 1149
Delta R.T. -0.005 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

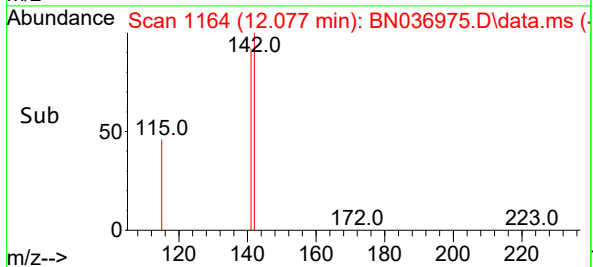
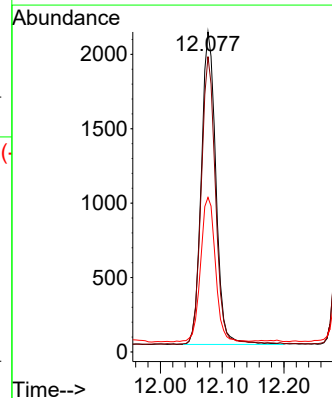
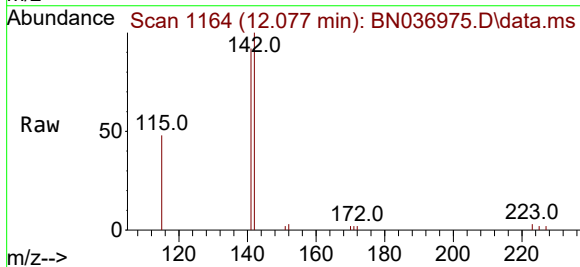
Instrument :
BNA_N
ClientSampleId :
GB2BMS

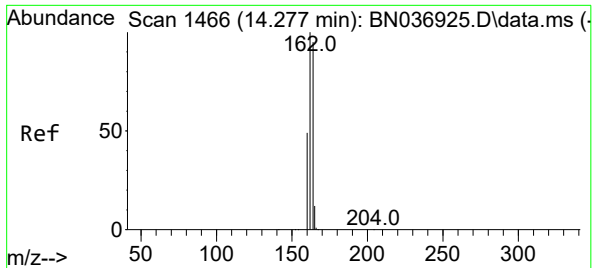
Tgt Ion:152 Resp: 1345
Ion Ratio Lower Upper
152 100
151 22.9 16.9 25.3



#12
2-Methylnaphthalene
Concen: 0.420 ng
RT: 12.077 min Scan# 1164
Delta R.T. -0.005 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion:142 Resp: 3444
Ion Ratio Lower Upper
142 100
141 92.3 72.8 109.2
115 48.3 38.2 57.4

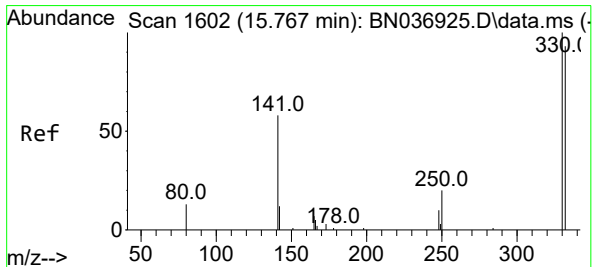
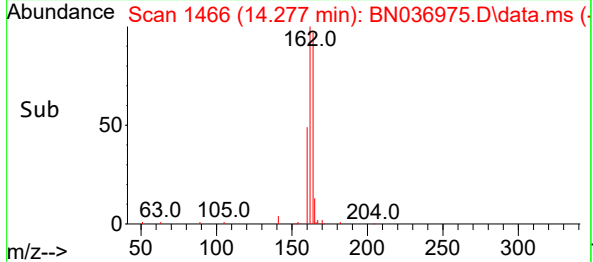
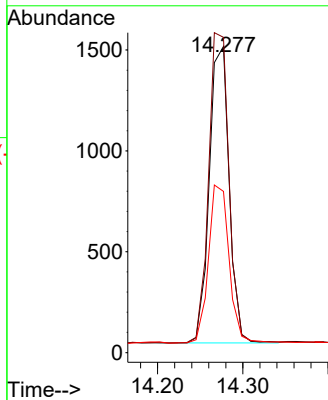
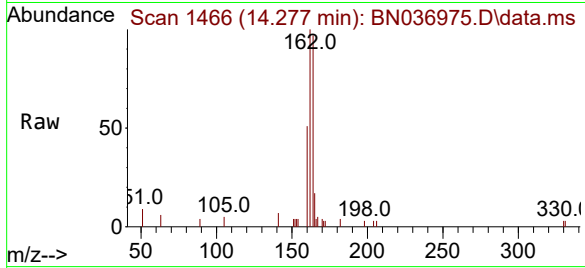




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

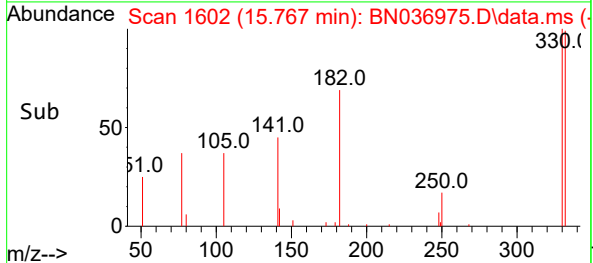
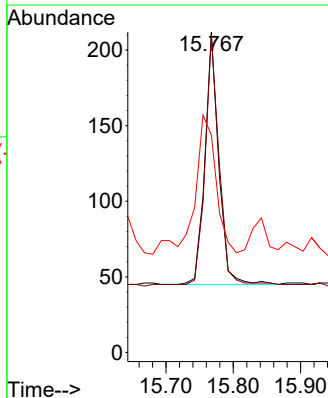
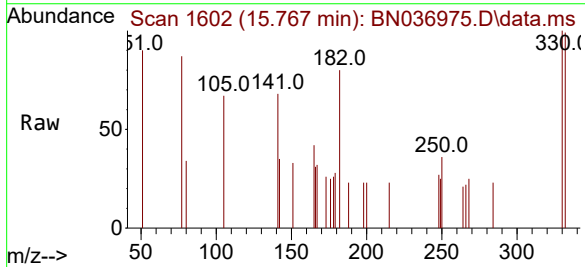
Instrument :
BNA_N
ClientSampleId :
GB2BMS

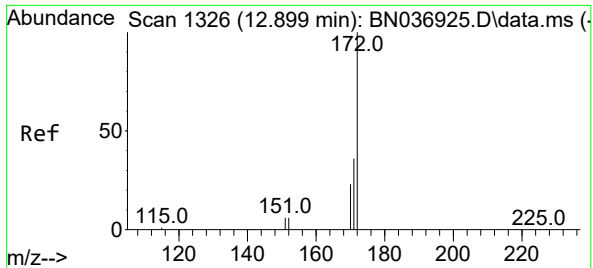
Tgt Ion	164	162	160
Resp:	2385		
Ion Ratio	100	103.0	52.6
Lower		83.8	42.0
Upper		125.8	63.0



#14
2,4,6-Tribromophenol
Concen: 0.224 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion	330	332	141
Resp:	238		
Ion Ratio	100	98.7	85.7
Lower		76.3	45.4
Upper		114.5	68.2





#15

2-Fluorobiphenyl

Concen: 0.194 ng

RT: 12.893 min Scan# 11

Delta R.T. -0.005 min

Lab File: BN036975.D

Acq: 08 May 2025 16:16

Instrument :

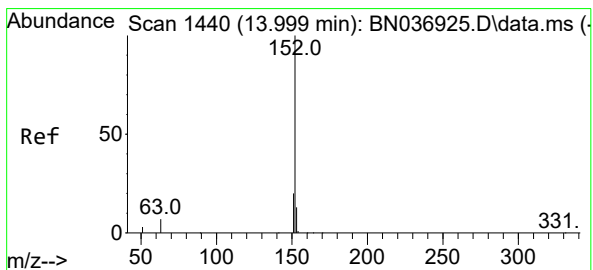
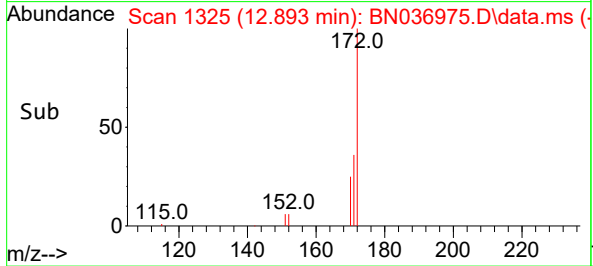
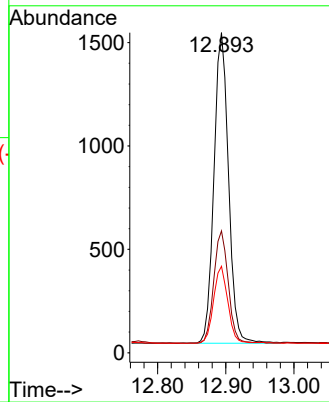
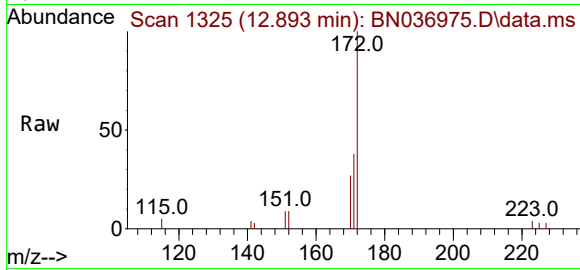
BNA_N

ClientSampleId :

GB2BMS

Tgt Ion:172 Resp: 2233

Ion	Ratio	Lower	Upper
172	100		
171	38.0	29.4	44.0
170	27.0	19.4	29.0



#16

Acenaphthylene

Concen: 0.391 ng

RT: 13.989 min Scan# 1439

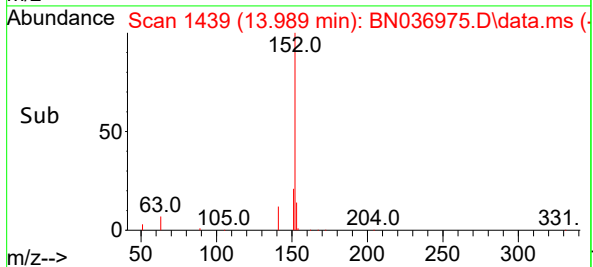
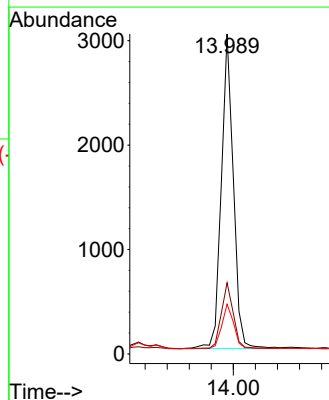
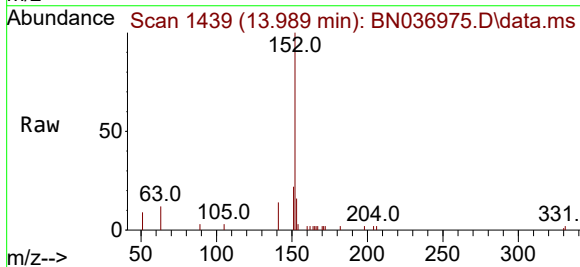
Delta R.T. -0.011 min

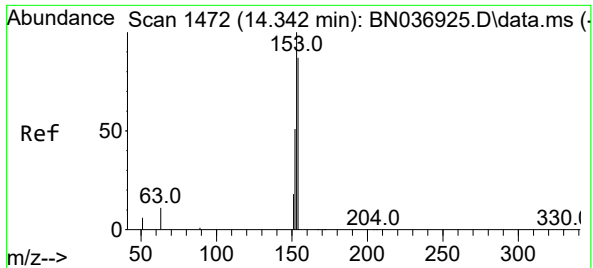
Lab File: BN036975.D

Acq: 08 May 2025 16:16

Tgt Ion:152 Resp: 4556

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.0	24.0
153	14.6	10.2	15.2

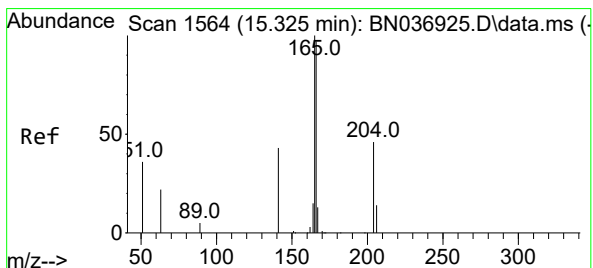
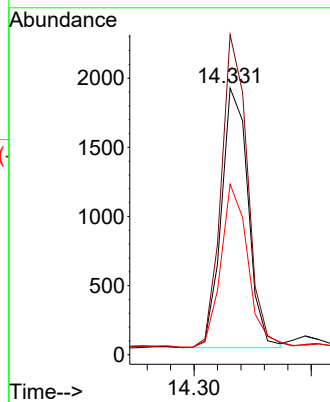
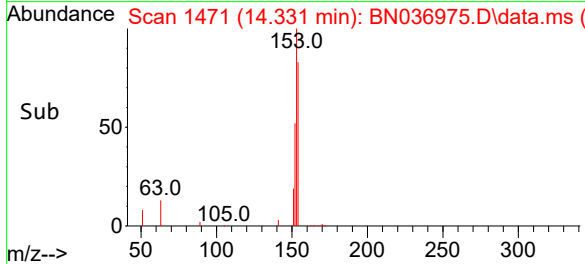
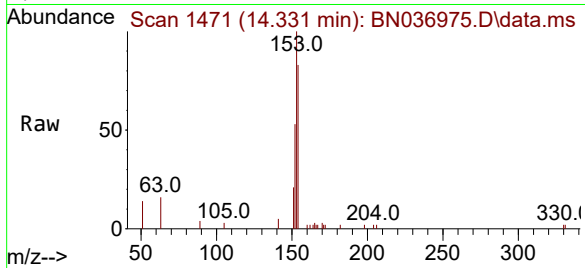




#17
Acenaphthene
Concen: 0.388 ng
RT: 14.331 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

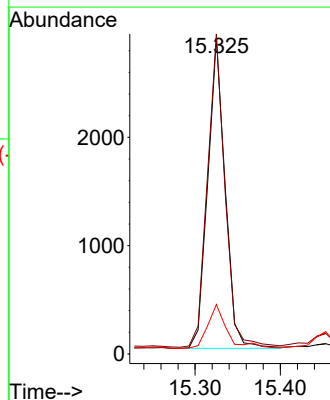
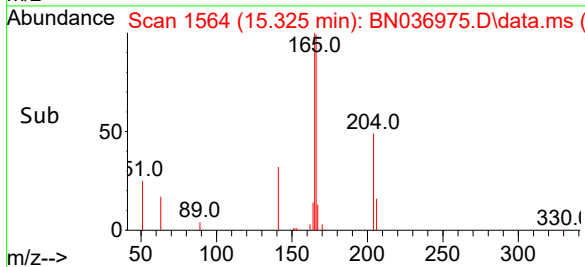
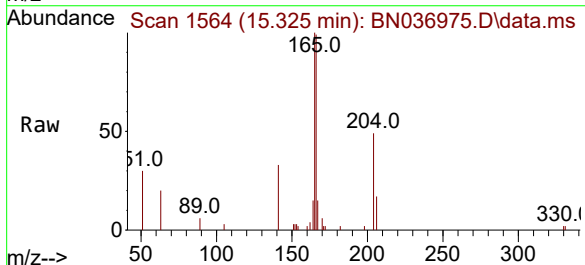
Instrument :
BNA_N
ClientSampleId :
GB2BMS

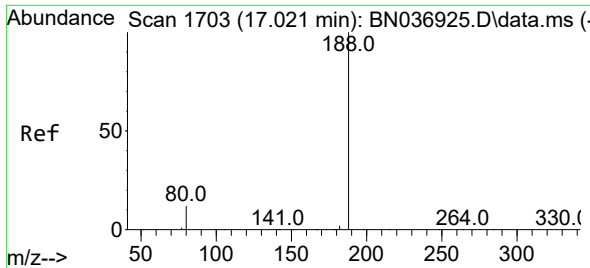
Tgt Ion:154 Resp: 2973
Ion Ratio Lower Upper
154 100
153 118.5 93.4 140.2
152 63.5 49.5 74.3



#18
Fluorene
Concen: 0.406 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion:166 Resp: 4067
Ion Ratio Lower Upper
166 100
165 101.5 80.8 121.2
167 15.7 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.021 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN036975.D

Acq: 08 May 2025 16:16

Instrument :

BNA_N

ClientSampleId :

GB2BMS

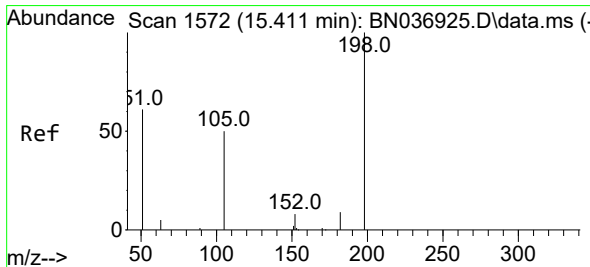
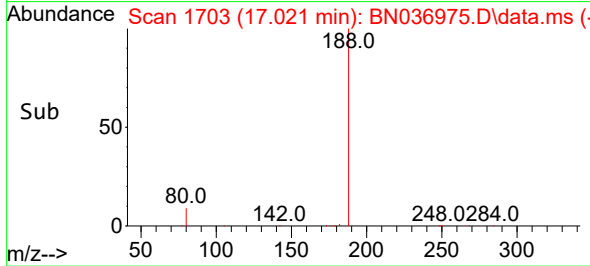
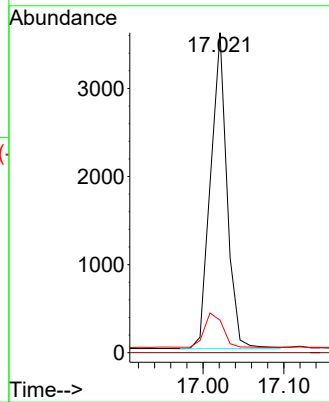
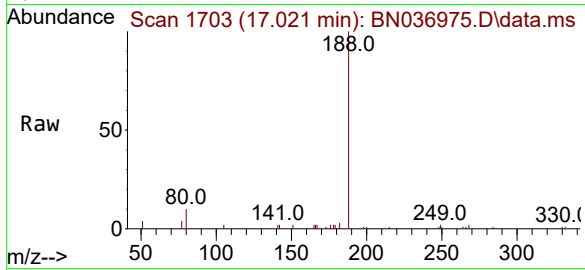
Tgt Ion:188 Resp: 5063

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.2 10.7 16.1#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.322 ng

RT: 15.410 min Scan# 1572

Delta R.T. -0.001 min

Lab File: BN036975.D

Acq: 08 May 2025 16:16

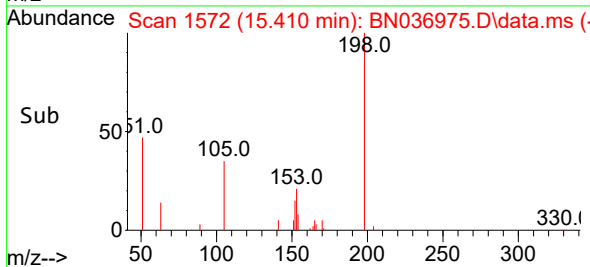
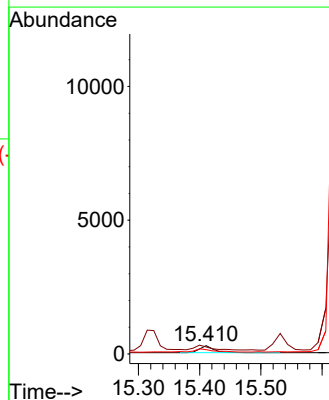
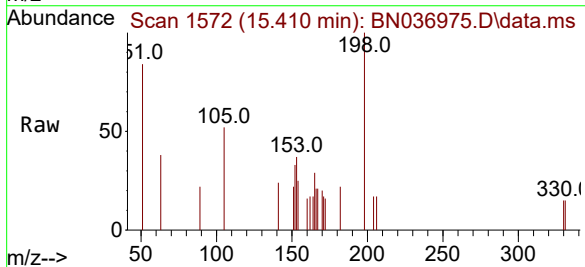
Tgt Ion:198 Resp: 432

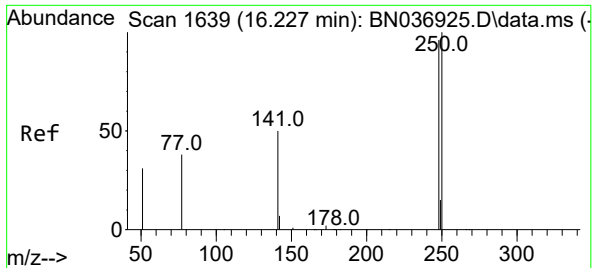
Ion Ratio Lower Upper

198 100

51 84.5 97.9 146.9#

105 52.1 50.0 75.0

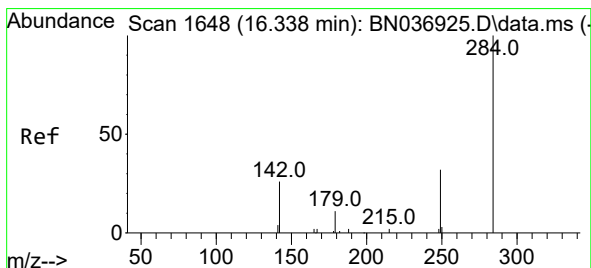
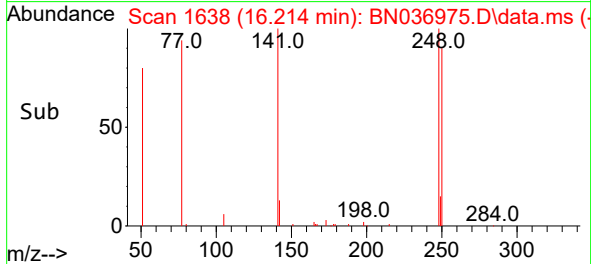
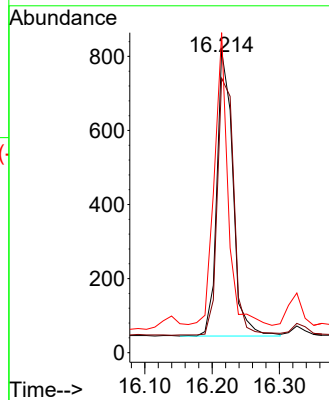
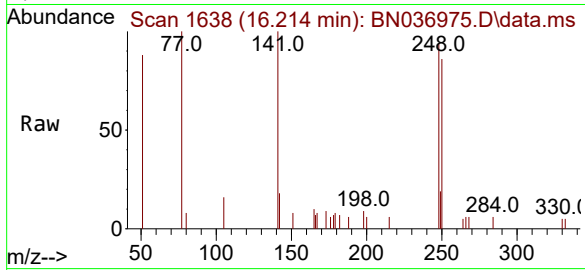




#21
4-Bromophenyl-phenylether
Concen: 0.374 ng
RT: 16.214 min Scan# 1638
Delta R.T. -0.013 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

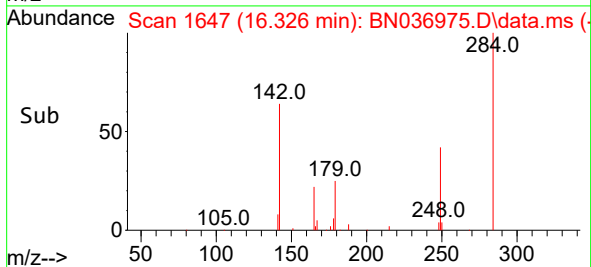
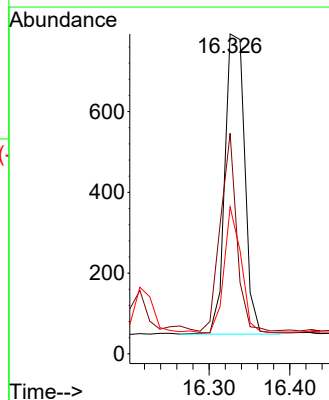
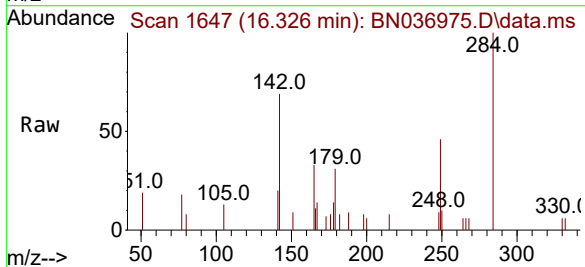
Instrument :
BNA_N
ClientSampleId :
GB2BMS

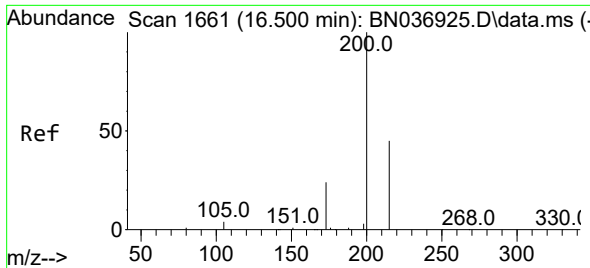
Tgt Ion	Ratio	Lower	Upper
248	100		
250	90.9	83.7	125.5
141	106.0	43.8	65.8



#22
Hexachlorobenzene
Concen: 0.342 ng
RT: 16.326 min Scan# 1647
Delta R.T. -0.013 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion	Ratio	Lower	Upper
284	100		
142	54.1	40.0	60.0
249	35.7	28.2	42.2

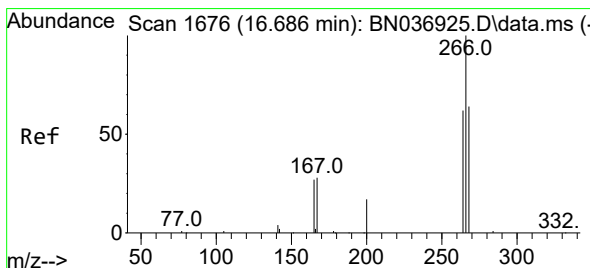
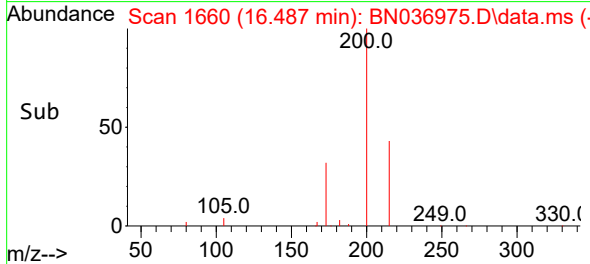
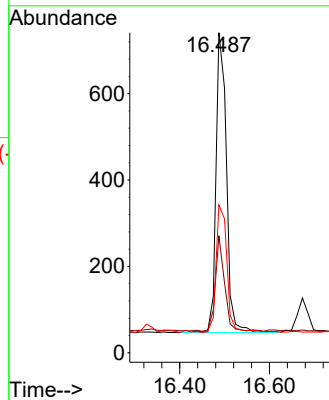
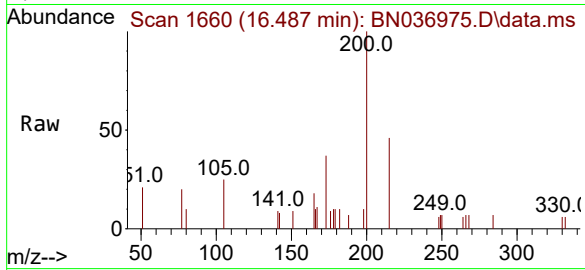




#23
Atrazine
Concen: 0.407 ng
RT: 16.487 min Scan# 1660
Delta R.T. -0.013 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

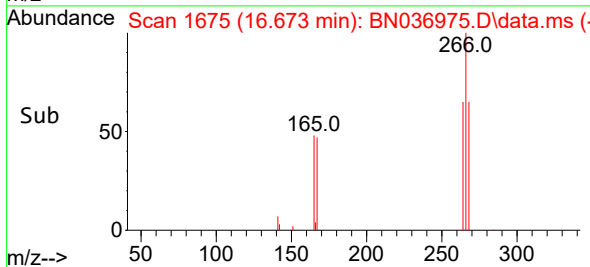
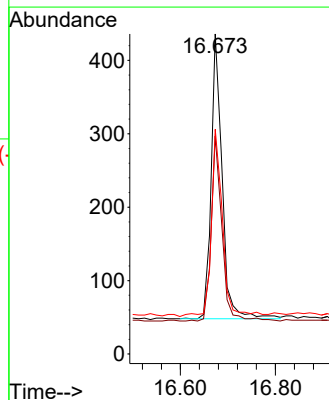
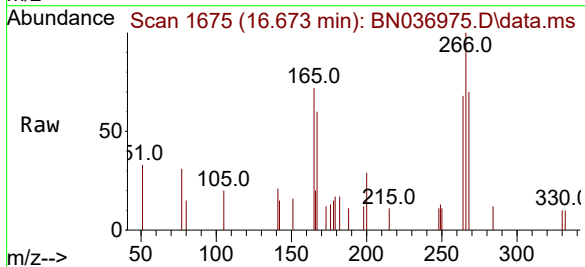
Instrument :
BNA_N
ClientSampleId :
GB2BMS

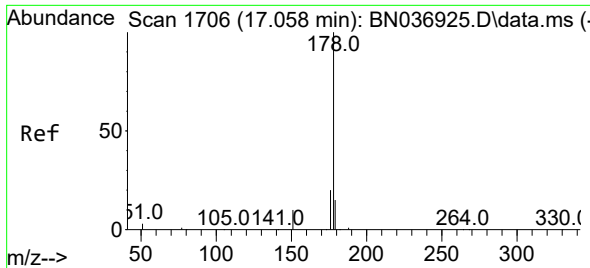
Tgt Ion:200 Resp: 1110
Ion Ratio Lower Upper
200 100
173 36.6 22.4 33.6#
215 46.2 38.6 57.8



#24
Pentachlorophenol
Concen: 0.314 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.013 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion:266 Resp: 623
Ion Ratio Lower Upper
266 100
264 63.4 49.9 74.9
268 67.6 52.2 78.4

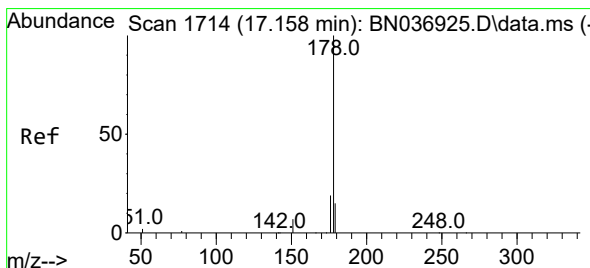
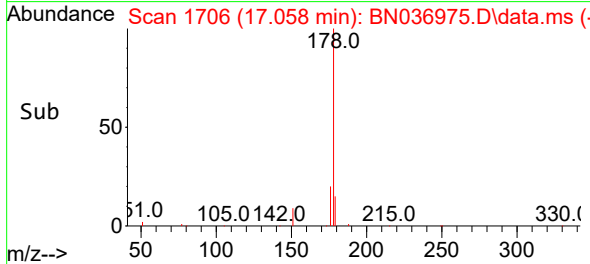
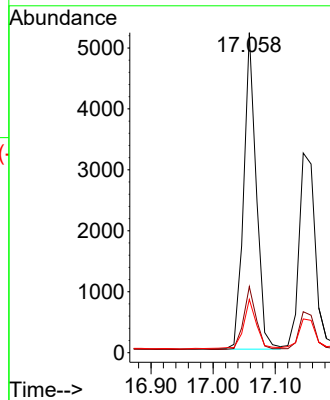
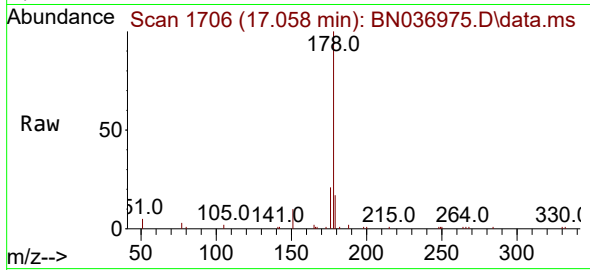




#25
Phenanthrene
Concen: 0.438 ng
RT: 17.058 min Scan# 1712
Delta R.T. -0.000 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

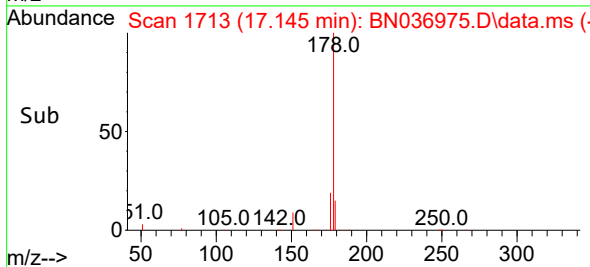
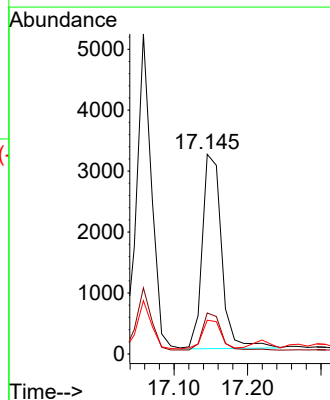
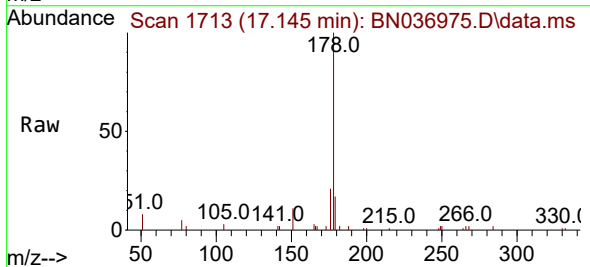
Instrument :
BNA_N
ClientSampleId :
GB2BMS

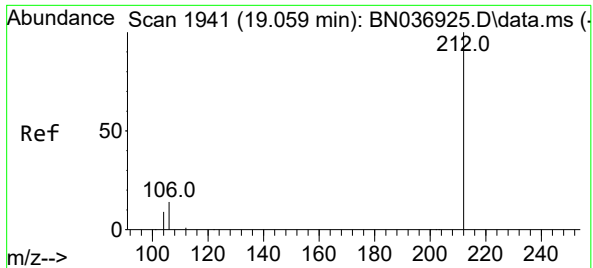
Tgt Ion:178 Resp: 7313
Ion Ratio Lower Upper
178 100
176 19.8 15.7 23.5
179 16.4 12.4 18.6



#26
Anthracene
Concen: 0.386 ng
RT: 17.145 min Scan# 1713
Delta R.T. -0.013 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion:178 Resp: 5839
Ion Ratio Lower Upper
178 100
176 18.9 15.3 22.9
179 14.2 12.1 18.1

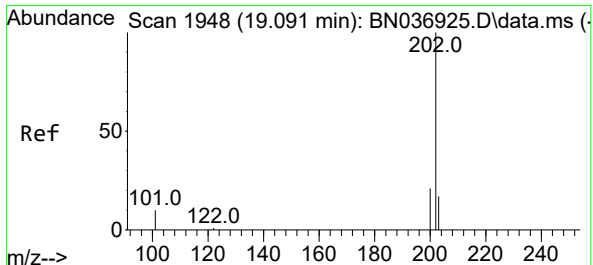
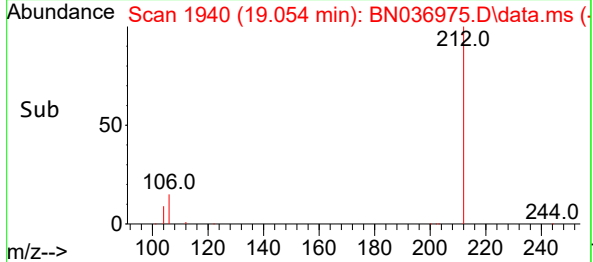
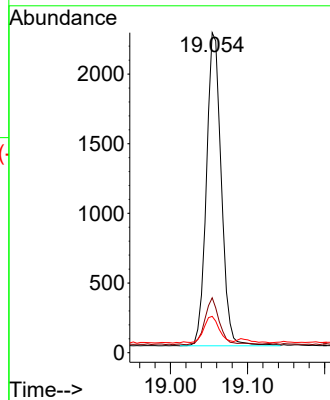
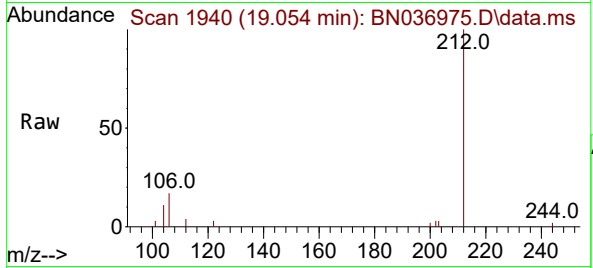




#27
Fluoranthene-d10
Concen: 0.229 ng
RT: 19.054 min Scan# 1941
Delta R.T. -0.005 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

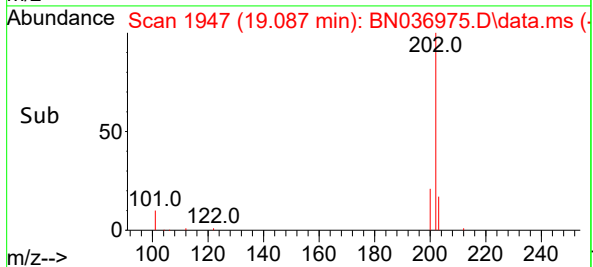
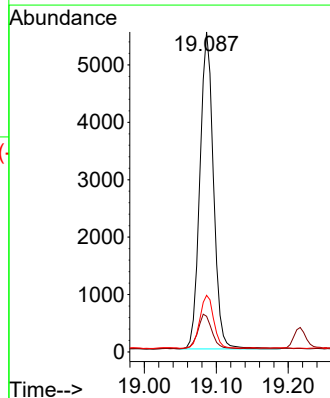
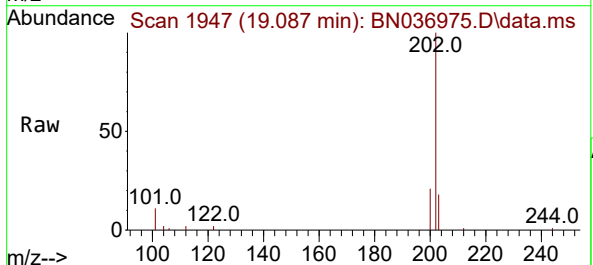
Instrument :
BNA_N
ClientSampleId :
GB2BMS

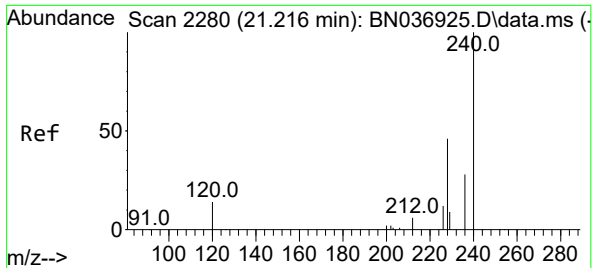
Tgt Ion:212 Resp: 3006
Ion Ratio Lower Upper
212 100
106 14.9 11.6 17.4
104 9.1 7.0 10.4



#28
Fluoranthene
Concen: 0.388 ng
RT: 19.087 min Scan# 1947
Delta R.T. -0.005 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion:202 Resp: 7262
Ion Ratio Lower Upper
202 100
101 11.1 8.5 12.7
203 17.0 13.7 20.5

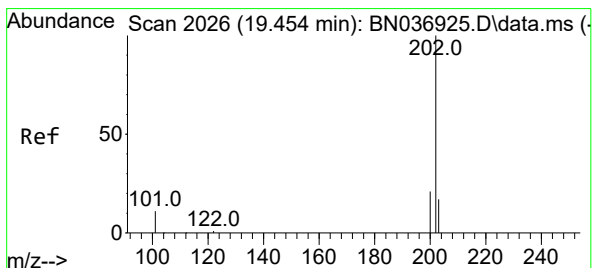
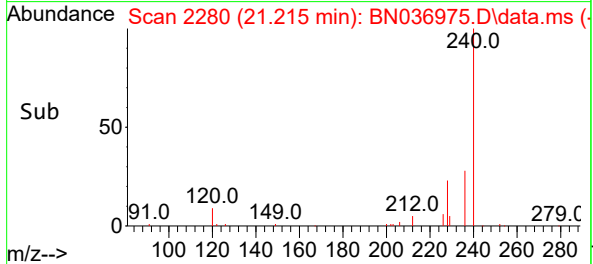
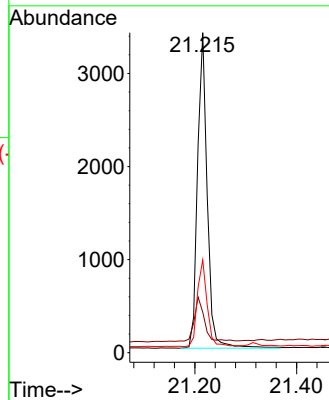
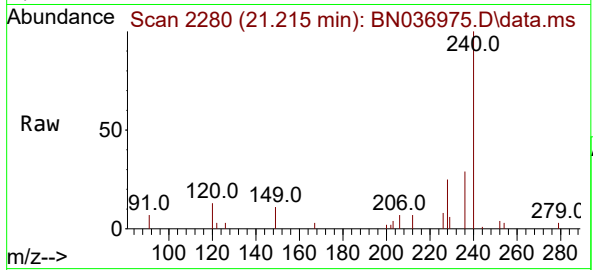




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.215 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

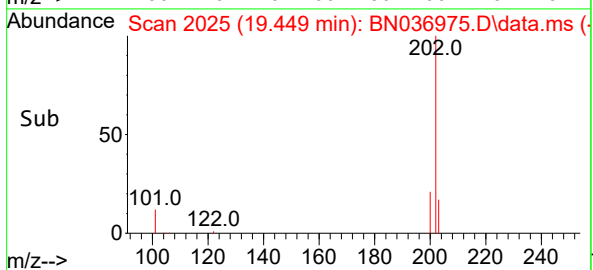
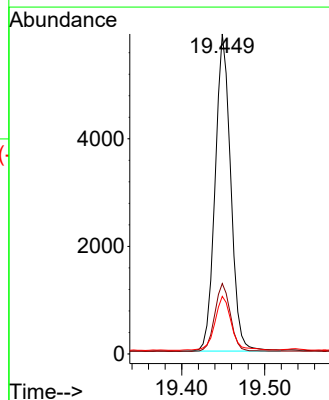
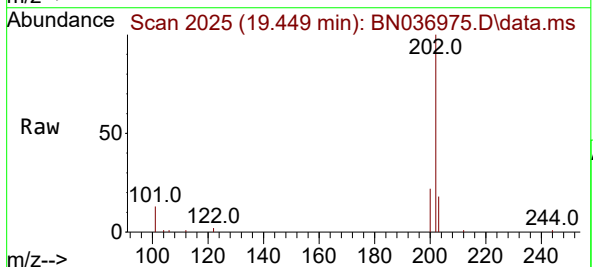
Instrument :
BNA_N
ClientSampleId :
GB2BMS

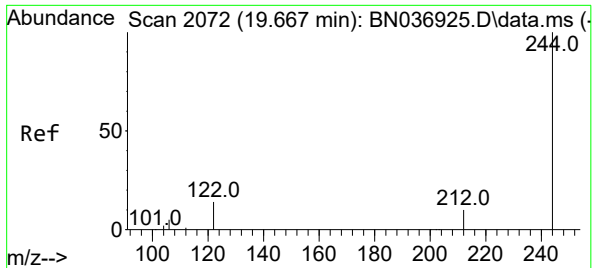
Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.7	14.1	21.1#
236	29.0	23.8	35.8



#30
Pyrene
Concen: 0.356 ng
RT: 19.449 min Scan# 2025
Delta R.T. -0.005 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.5	17.0	25.6
203	17.9	14.0	21.0

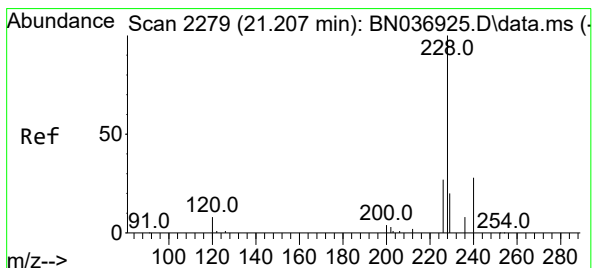
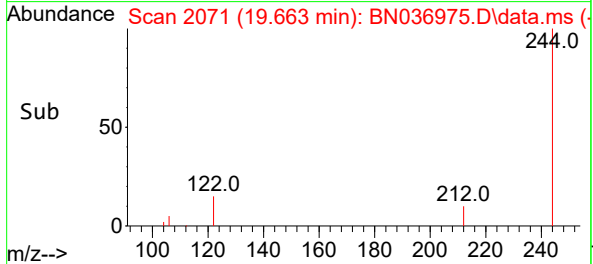
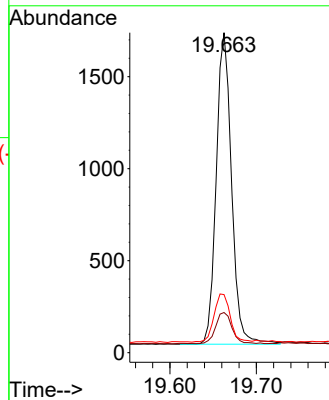
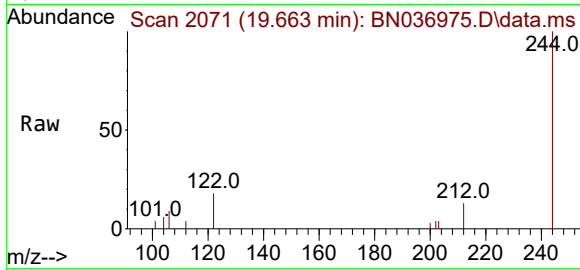




#31
Terphenyl-d14
Concen: 0.198 ng
RT: 19.663 min Scan# 2072
Delta R.T. -0.005 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

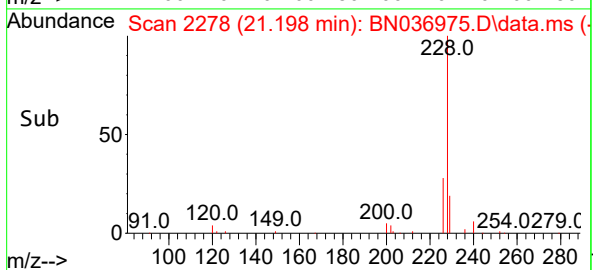
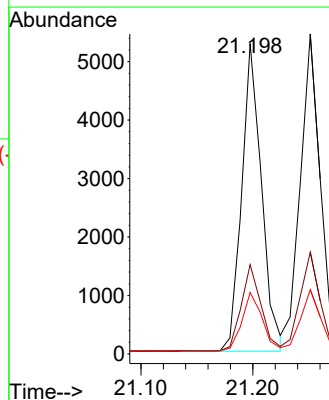
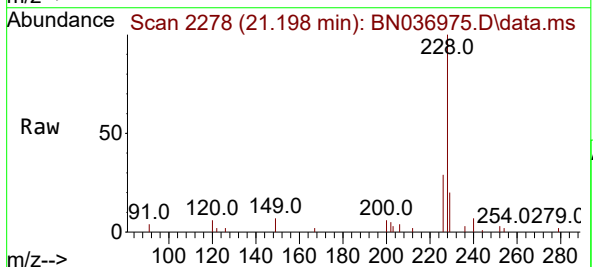
Instrument :
BNA_N
ClientSampleId :
GB2BMS

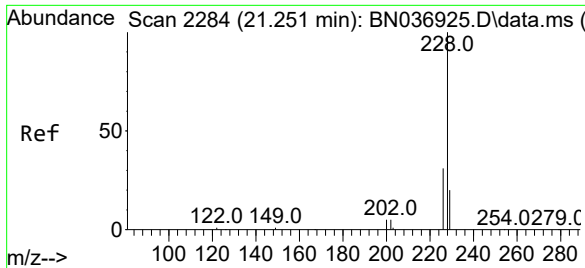
Tgt Ion:244 Resp: 2092
Ion Ratio Lower Upper
244 100
212 12.5 9.6 14.4
122 18.2 12.7 19.1



#32
Benzo(a)anthracene
Concen: 0.393 ng
RT: 21.198 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion:228 Resp: 6467
Ion Ratio Lower Upper
228 100
226 28.7 22.2 33.4
229 19.8 16.4 24.6

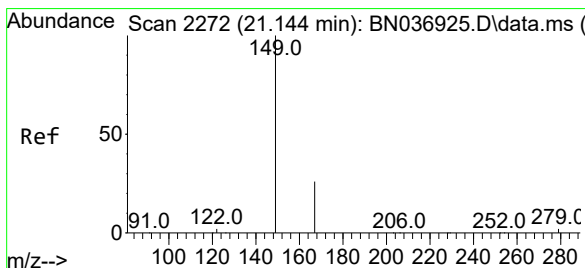
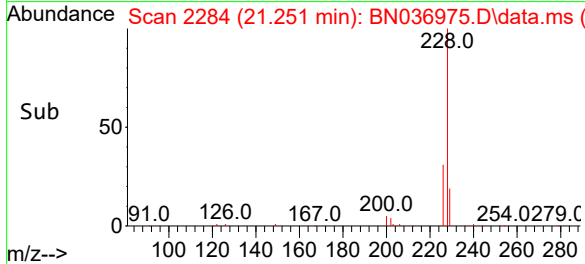
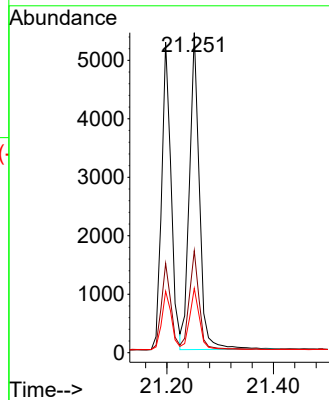
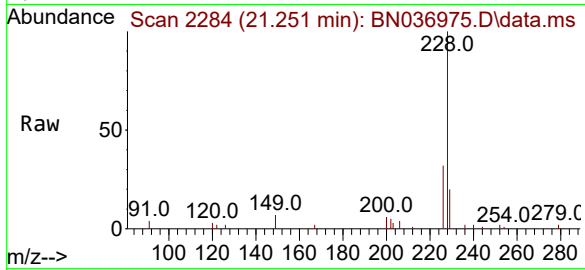




#33
Chrysene
Concen: 0.397 ng
RT: 21.251 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

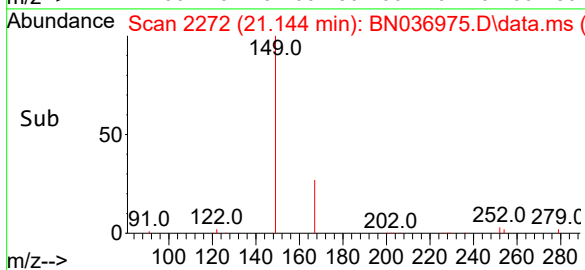
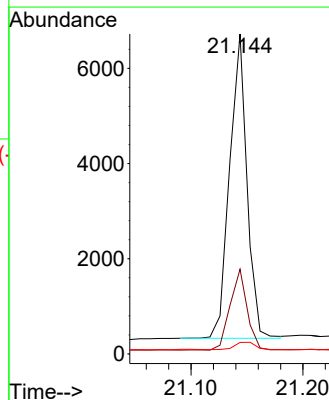
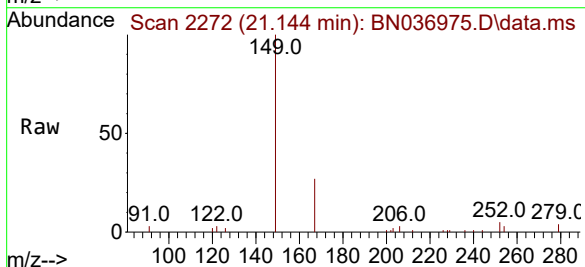
Instrument :
BNA_N
ClientSampleId :
GB2BMS

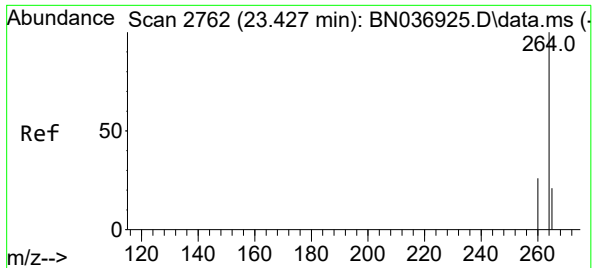
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.8	25.5	38.3
229	20.1	16.5	24.7



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.737 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

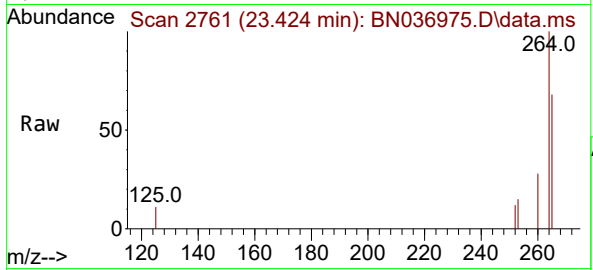
Tgt Ion	Ratio	Lower	Upper
149	100		
167	26.0	21.0	31.6
279	2.9	2.7	4.1



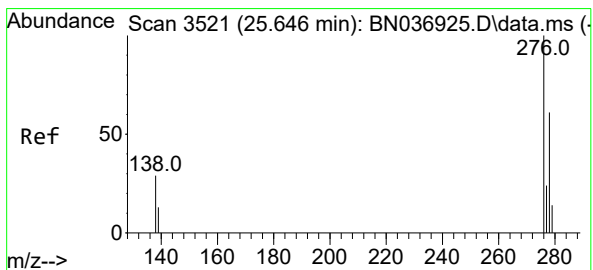
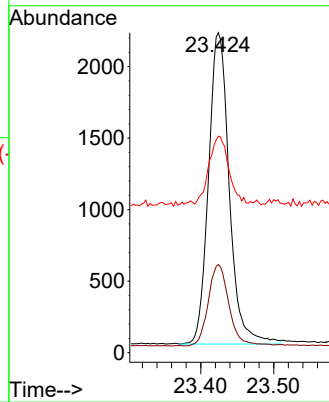
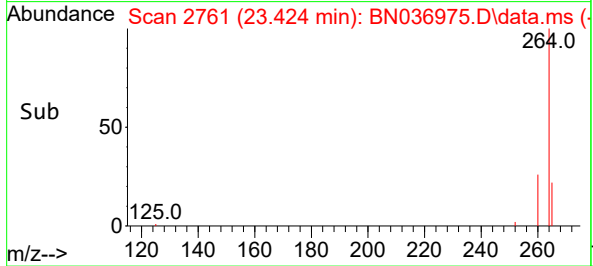


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.424 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Instrument :
BNA_N
ClientSampleId :
GB2BMS

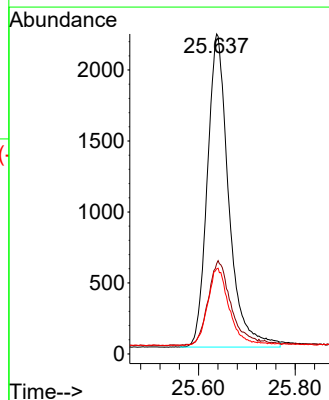
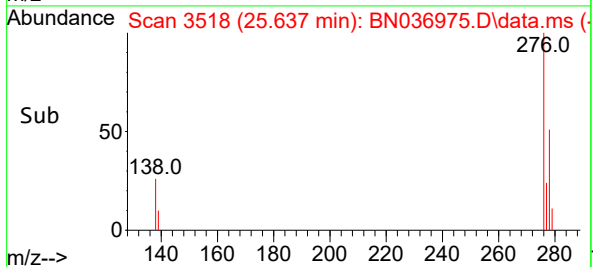
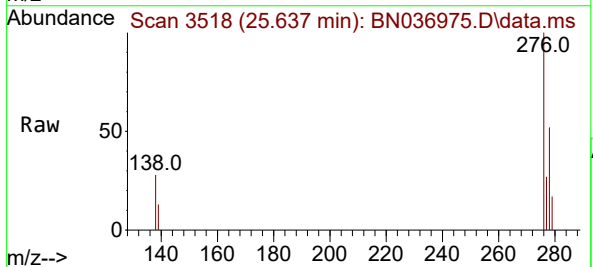


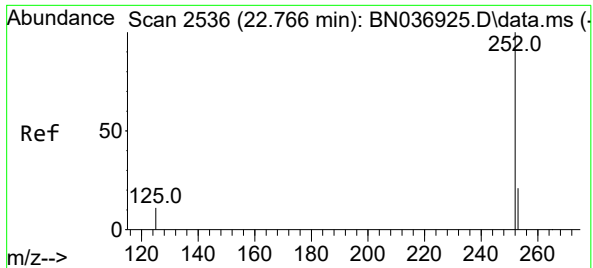
Tgt Ion:264 Resp: 4298
Ion Ratio Lower Upper
264 100
260 27.5 22.2 33.2
265 67.6 65.8 98.6



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.386 ng
RT: 25.637 min Scan# 3518
Delta R.T. -0.009 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion:276 Resp: 6779
Ion Ratio Lower Upper
276 100
138 28.5 23.0 34.6
277 24.6 20.0 30.0

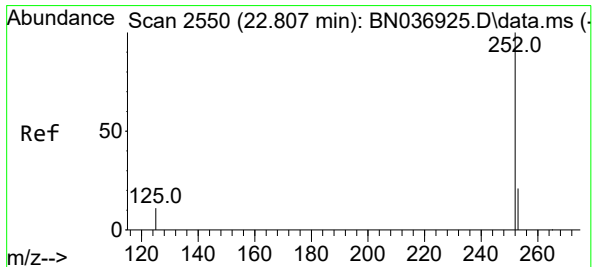
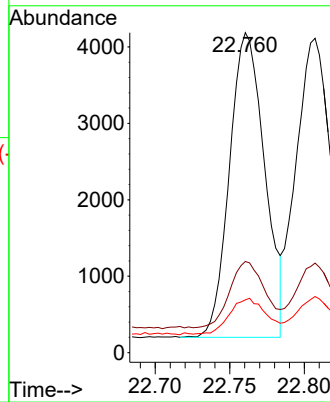
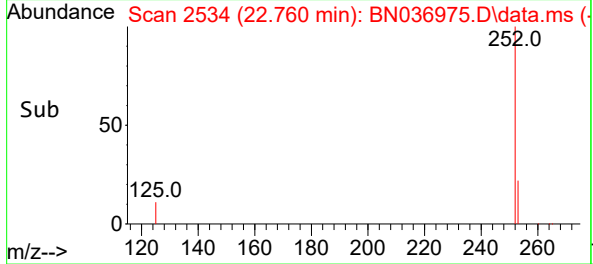
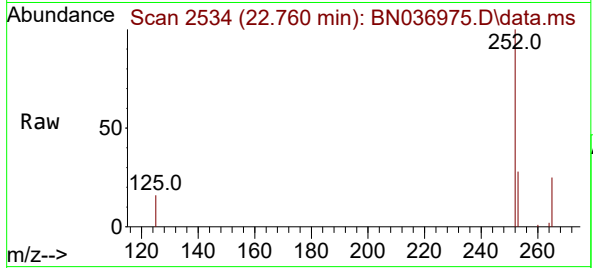




#37
Benzo(b)fluoranthene
Concen: 0.362 ng
RT: 22.760 min Scan# 2536
Delta R.T. -0.006 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

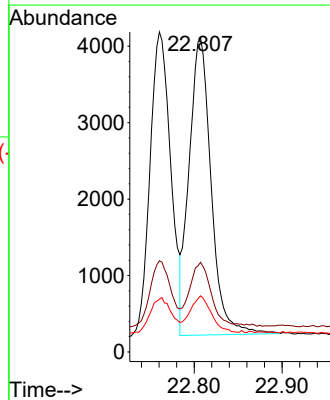
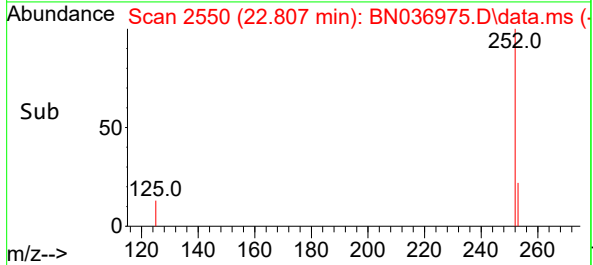
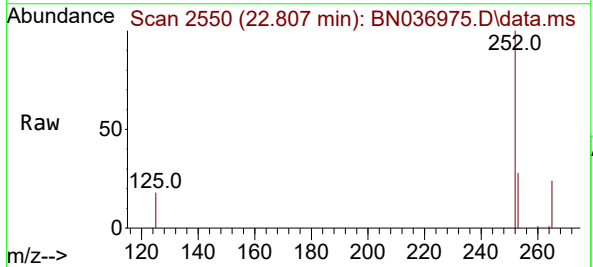
Instrument :
BNA_N
ClientSampleId :
GB2BMS

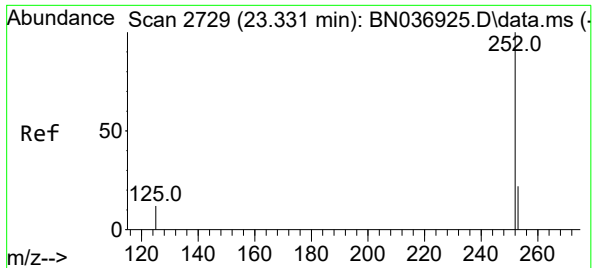
Tgt Ion:252 Resp: 6538
Ion Ratio Lower Upper
252 100
253 28.5 22.1 33.1
125 16.5 14.2 21.2



#38
Benzo(k)fluoranthene
Concen: 0.373 ng
RT: 22.807 min Scan# 2550
Delta R.T. -0.000 min
Lab File: BN036975.D
Acq: 08 May 2025 16:16

Tgt Ion:252 Resp: 6781
Ion Ratio Lower Upper
252 100
253 28.5 22.8 34.2
125 17.9 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.391 ng

RT: 23.328 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036975.D

Acq: 08 May 2025 16:16

Instrument :

BNA_N

ClientSampleId :

GB2BMS

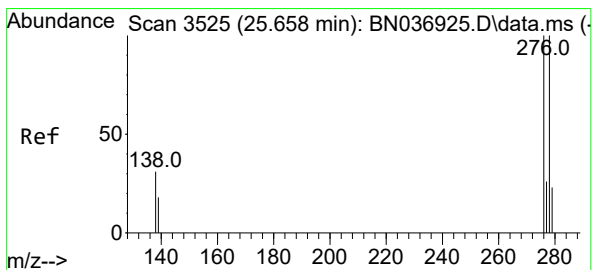
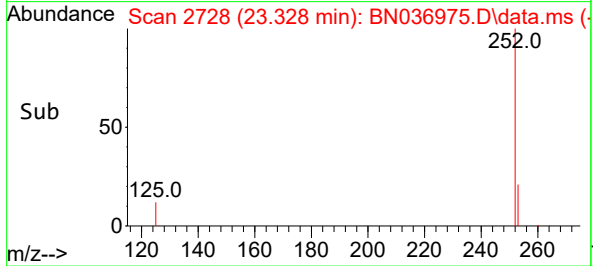
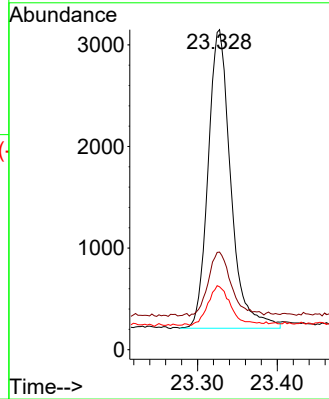
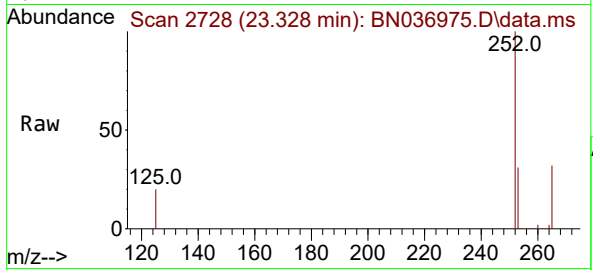
Tgt Ion:252 Resp: 5810

Ion Ratio Lower Upper

252 100

253 30.5 25.9 38.9

125 19.7 17.4 26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.373 ng

RT: 25.655 min Scan# 3524

Delta R.T. -0.003 min

Lab File: BN036975.D

Acq: 08 May 2025 16:16

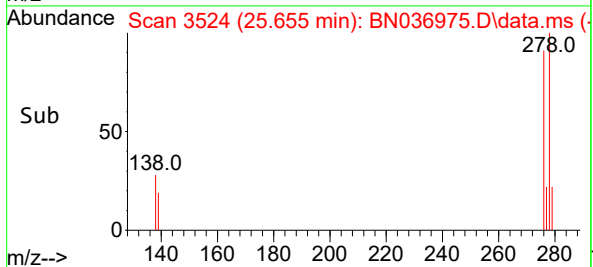
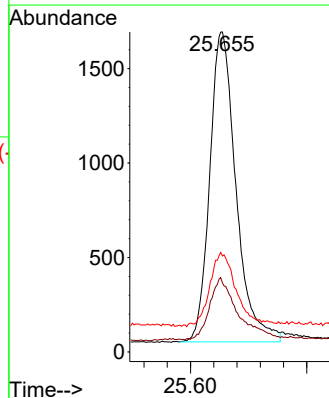
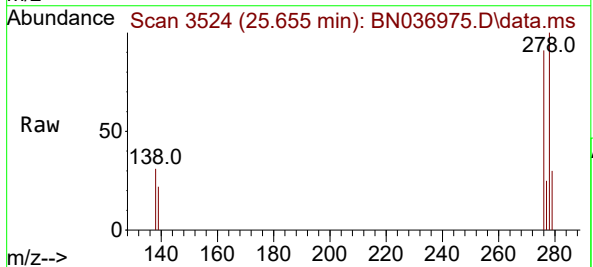
Tgt Ion:278 Resp: 5158

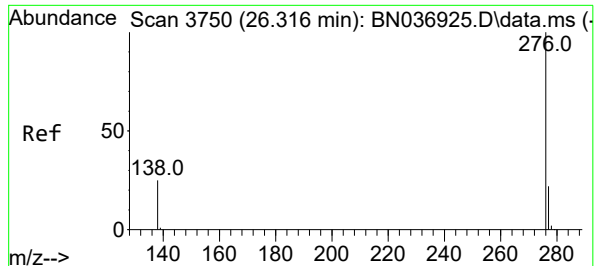
Ion Ratio Lower Upper

278 100

139 21.6 17.4 26.2

279 30.0 24.9 37.3





#41

Benzo(g,h,i)perylene

Concen: 0.348 ng

RT: 26.318 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN036975.D

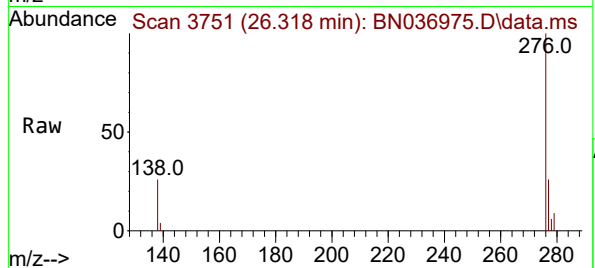
Acq: 08 May 2025 16:16

Instrument :

BNA_N

ClientSampleId :

GB2BMS



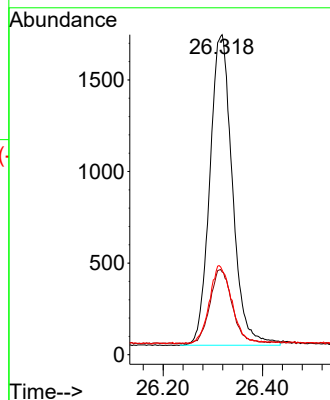
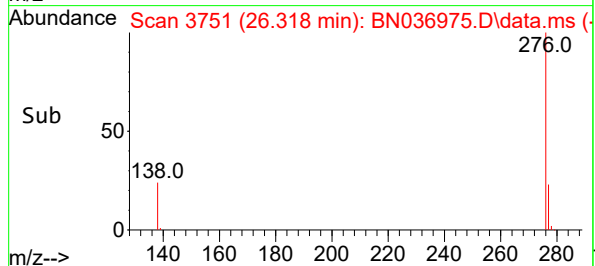
Tgt Ion:276 Resp: 5341

Ion Ratio Lower Upper

276 100

277 25.9 20.2 30.2

138 26.4 21.9 32.9



Report of Analysis

Client:	Alliance Technical Group, LLC - Newark		Date Collected:	05/01/25
Project:	NJ Soil PT		Date Received:	05/01/25
Client Sample ID:	GB2BMSD		SDG No.:	Q1872
Lab Sample ID:	Q1939-04MSD		Matrix:	SOIL
Analytical Method:	SW8270ESIM		% Solid:	85.4
Sample Wt/Vol:	30.04	Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:		uL	Test:	SVOCMS Group3
Extraction Type :		Decanted : N	Level :	LOW
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036976.D	1	05/08/25 10:03	05/08/25 16:53	PB167915

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	14.5		1.40	3.90	ug/Kg
91-57-6	2-Methylnaphthalene	16.3		1.40	3.90	ug/Kg
208-96-8	Acenaphthylene	15.2		1.30	3.90	ug/Kg
83-32-9	Acenaphthene	15.1		1.30	3.90	ug/Kg
86-73-7	Fluorene	15.6		1.30	3.90	ug/Kg
85-01-8	Phenanthrene	17.5		1.40	3.90	ug/Kg
120-12-7	Anthracene	14.9		1.40	3.90	ug/Kg
206-44-0	Fluoranthene	15.2		1.40	3.90	ug/Kg
129-00-0	Pyrene	14.0		1.30	3.90	ug/Kg
56-55-3	Benzo(a)anthracene	15.4		1.50	3.90	ug/Kg
218-01-9	Chrysene	15.5		1.60	3.90	ug/Kg
205-99-2	Benzo(b)fluoranthene	14.2		1.80	3.90	ug/Kg
207-08-9	Benzo(k)fluoranthene	14.4		2.20	3.90	ug/Kg
50-32-8	Benzo(a)pyrene	15.3		1.70	3.90	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	14.8		2.10	3.90	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	14.8		2.10	3.90	ug/Kg
191-24-2	Benzo(g,h,i)perylene	13.5		2.00	3.90	ug/Kg
SURROGATES						
7297-45-2	2-Methylnaphthalene-d10	0.23		17 - 161	56%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.23		23 - 138	58%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.22		33 - 121	55%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.19		32 - 121	49%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.20		21 - 130	50%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	1750		7.625		
1146-65-2	Naphthalene-d8	4440		10.404		
15067-26-2	Acenaphthene-d10	2460		14.277		
1517-22-2	Phenanthrene-d10	5140		17.021		
1719-03-5	Chrysene-d12	4530		21.215		

Report of Analysis

Client:	Alliance Technical Group, LLC - Newark	Date Collected:	05/01/25
Project:	NJ Soil PT	Date Received:	05/01/25
Client Sample ID:	GB2BMSD	SDG No.:	Q1872
Lab Sample ID:	Q1939-04MSD	Matrix:	SOIL
Analytical Method:	SW8270ESIM	% Solid:	85.4
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	sw3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN036976.D	1	05/08/25 10:03	05/08/25 16:53	PB167915

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
1520-96-3	Perylene-d12	4360	23.421			

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\BN050825\
 Data File : BN036976.D
 Acq On : 08 May 2025 16:53
 Operator : RC/JU
 Sample : Q1939-04MSD
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 GB2BMSD

Quant Time: May 08 18:27:44 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Apr 28 15:35:03 2025
 Response via : Initial Calibration

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

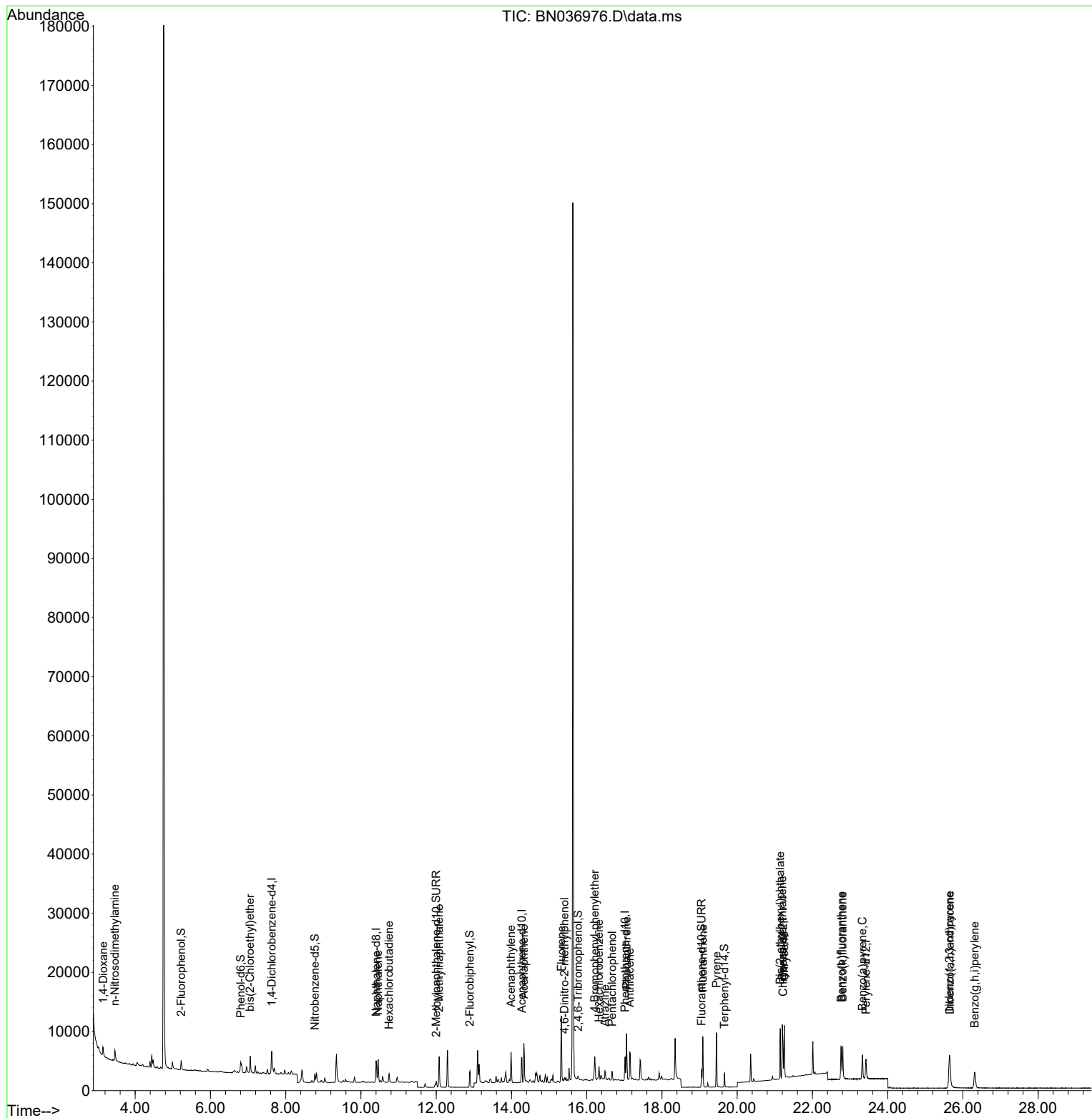
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.625	152	1746	0.400	ng	0.00
7) Naphthalene-d8	10.404	136	4442	0.400	ng	#-0.01
13) Acenaphthene-d10	14.277	164	2456	0.400	ng	0.00
19) Phenanthrene-d10	17.021	188	5135	0.400	ng	0.00
29) Chrysene-d12	21.215	240	4532	0.400	ng	# 0.00
35) Perylene-d12	23.421	264	4358	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.220	112	1050	0.235	ng	0.00
5) Phenol-d6	6.802	99	1326	0.241	ng	0.00
8) Nitrobenzene-d5	8.771	82	1026	0.221	ng	-0.01
11) 2-Methylnaphthalene-d10	12.001	152	1396	0.225	ng	0.00
14) 2,4,6-Tribromophenol	15.767	330	262	0.239	ng	0.00
15) 2-Fluorobiphenyl	12.893	172	2299	0.194	ng	0.00
27) Fluoranthene-d10	19.054	212	3110	0.234	ng	0.00
31) Terphenyl-d14	19.663	244	2125	0.199	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.148	88	751	0.345	ng	# 33
3) n-Nitrosodimethylamine	3.458	42	1657	0.392	ng	# 97
6) bis(2-Chloroethyl)ether	7.055	93	1962	0.385	ng	99
9) Naphthalene	10.458	128	4811	0.372	ng	98
10) Hexachlorobutadiene	10.746	225	1062	0.380	ng	# 97
12) 2-Methylnaphthalene	12.077	142	3488	0.417	ng	99
16) Acenaphthylene	13.989	152	4666	0.389	ng	98
17) Acenaphthene	14.331	154	3061	0.388	ng	99
18) Fluorene	15.325	166	4121	0.400	ng	# 98
20) 4,6-Dinitro-2-methylph...	15.410	198	412	0.303	ng	# 72
21) 4-Bromophenyl-phenylether	16.214	248	1285	0.375	ng	# 66
22) Hexachlorobenzene	16.326	284	1291	0.344	ng	95
23) Atrazine	16.487	200	1132	0.409	ng	# 92
24) Pentachlorophenol	16.673	266	635	0.315	ng	98
25) Phenanthrene	17.058	178	7596	0.448	ng	99
26) Anthracene	17.145	178	5847	0.381	ng	99
28) Fluoranthene	19.086	202	7425	0.391	ng	99
30) Pyrene	19.449	202	7811	0.358	ng	99
32) Benzo(a)anthracene	21.197	228	6578	0.394	ng	99
33) Chrysene	21.251	228	7149	0.397	ng	99
34) Bis(2-ethylhexyl)phtha...	21.144	149	7041	0.742	ng	99
36) Indeno(1,2,3-cd)pyrene	25.640	276	6746	0.379	ng	99
37) Benzo(b)fluoranthene	22.760	252	6681	0.365	ng	98
38) Benzo(k)fluoranthene	22.804	252	6822	0.370	ng	99
39) Benzo(a)pyrene	23.328	252	5908	0.392	ng	98
40) Dibenzo(a,h)anthracene	25.655	278	5327	0.380	ng	98
41) Benzo(g,h,i)perylene	26.313	276	5396	0.347	ng	99

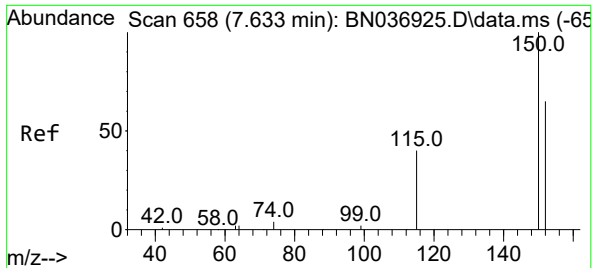
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN050825\
Data File : BN036976.D
Acq On : 08 May 2025 16:53
Operator : RC/JU
Sample : Q1939-04MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
GB2BMSD

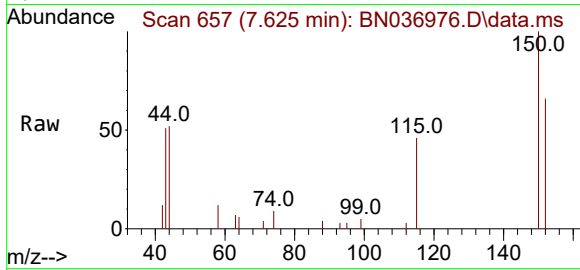
Quant Time: May 08 18:27:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN042825.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Apr 28 15:35:03 2025
Response via : Initial Calibration



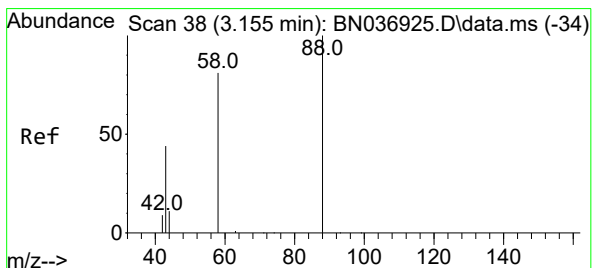
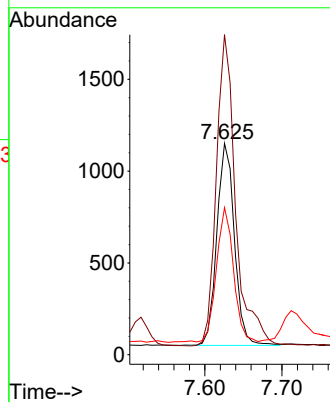
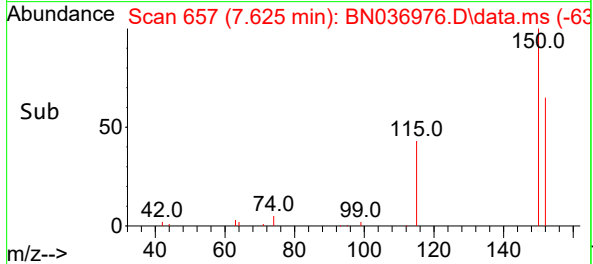


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.625 min Scan# 61
 Delta R.T. -0.008 min
 Lab File: BN036976.D
 Acq: 08 May 2025 16:53

Instrument :
 BNA_N
 ClientSampleId :
 GB2BMDS

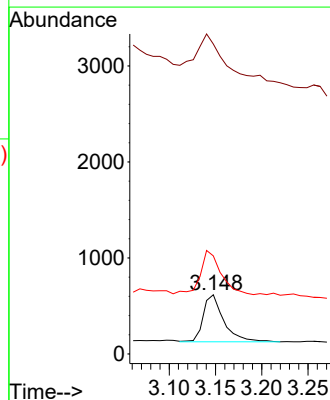
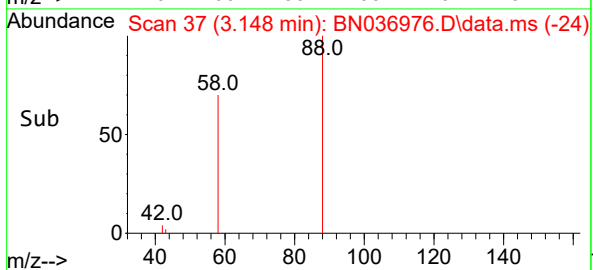
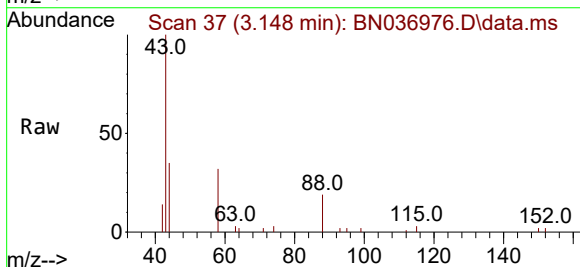


Tgt Ion:152 Resp: 1746
 Ion Ratio Lower Upper
 152 100
 150 151.4 121.1 181.7
 115 69.6 51.8 77.6

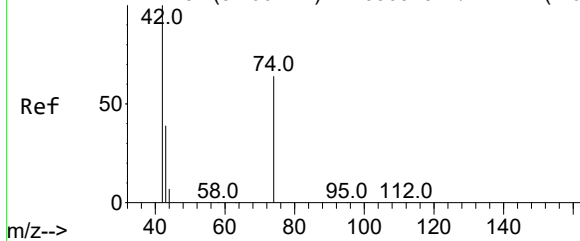


#2
 1,4-Dioxane
 Concen: 0.345 ng
 RT: 3.148 min Scan# 37
 Delta R.T. -0.007 min
 Lab File: BN036976.D
 Acq: 08 May 2025 16:53

Tgt Ion: 88 Resp: 751
 Ion Ratio Lower Upper
 88 100
 43 154.7 37.9 56.9#
 58 94.0 65.8 98.6



Abundance Scan 81 (3.466 min): BN036925.D\data.ms (-76)



#3

n-Nitrosodimethylamine

Concen: 0.392 ng

RT: 3.458 min Scan# 80

Delta R.T. -0.007 min

Lab File: BN036976.D

Acq: 08 May 2025 16:53

Instrument :

BNA_N

ClientSampleId :

GB2BMSD

Tgt Ion: 42 Resp: 1657

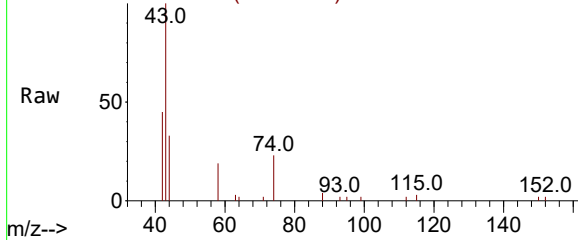
Ion Ratio Lower Upper

42 100

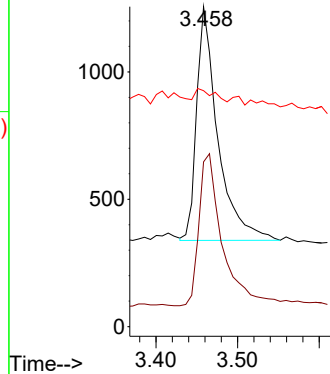
74 73.6 59.9 89.9

44 4.9 7.5 11.3#

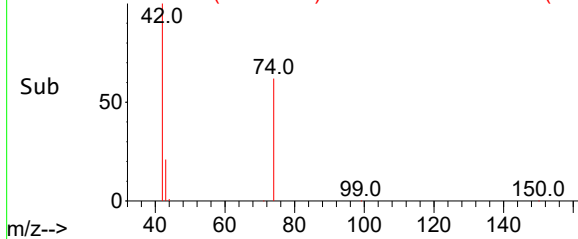
Abundance Scan 80 (3.458 min): BN036976.D\data.ms



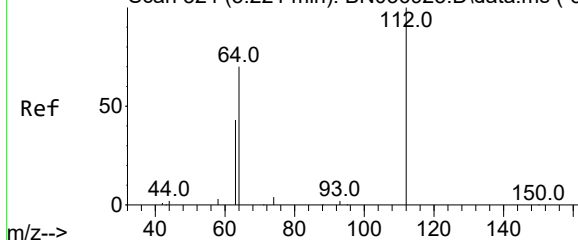
Abundance



Abundance Scan 80 (3.458 min): BN036976.D\data.ms (-60)



Abundance Scan 324 (5.221 min): BN036925.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.235 ng

RT: 5.220 min Scan# 324

Delta R.T. -0.000 min

Lab File: BN036976.D

Acq: 08 May 2025 16:53

Tgt Ion: 112 Resp: 1050

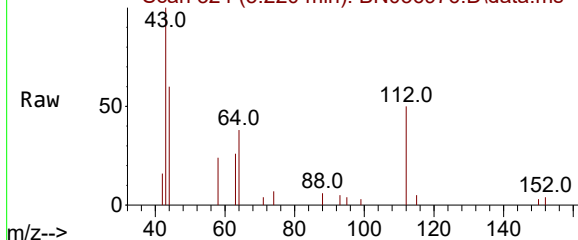
Ion Ratio Lower Upper

112 100

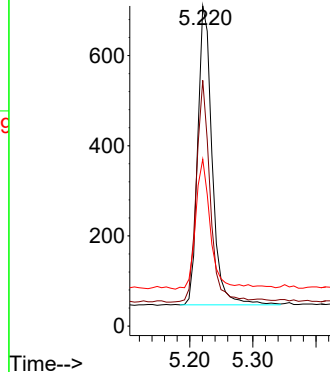
64 71.0 55.7 83.5

63 46.0 33.9 50.9

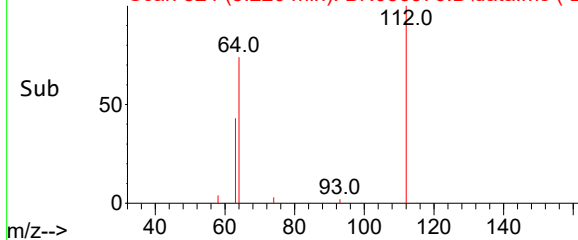
Abundance Scan 324 (5.220 min): BN036976.D\data.ms

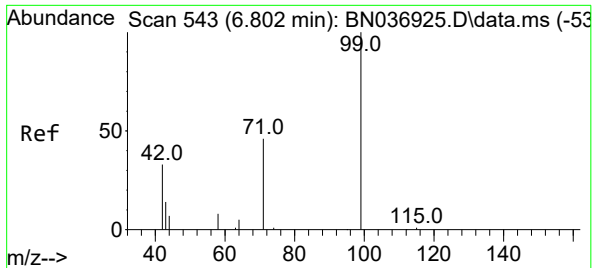


Abundance



Abundance Scan 324 (5.220 min): BN036976.D\data.ms (-29)

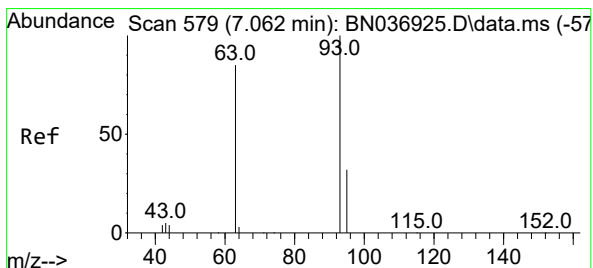
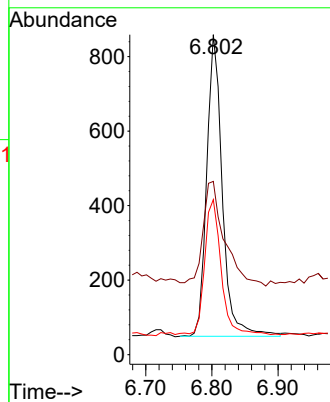
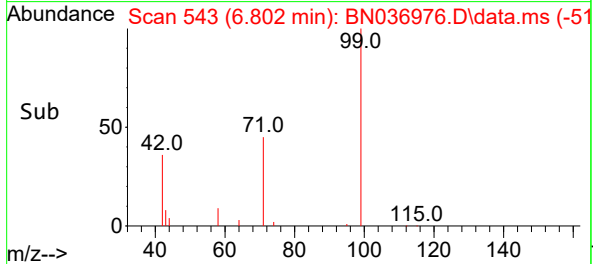
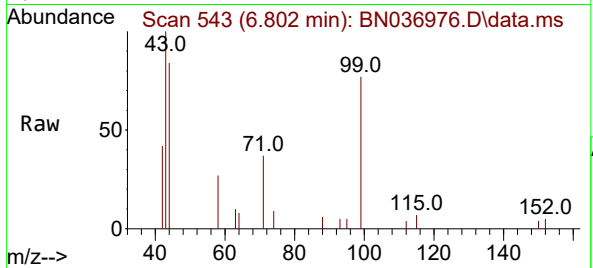




#5
Phenol-d6
Concen: 0.241 ng
RT: 6.802 min Scan# 54
Delta R.T. -0.000 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

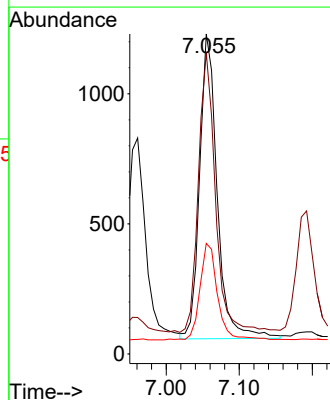
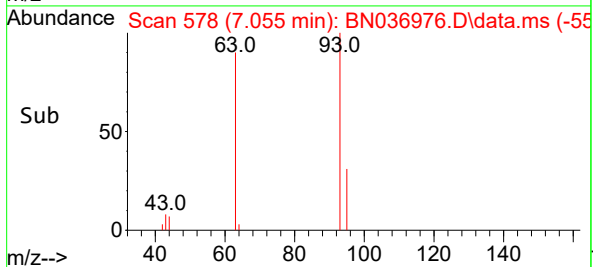
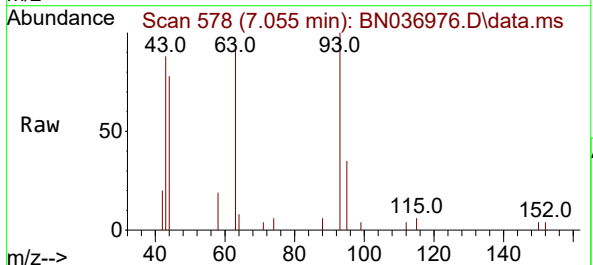
Instrument :
BNA_N
ClientSampleId :
GB2BMDS

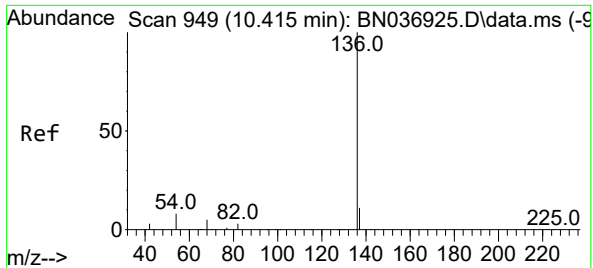
Tgt Ion: 99 Resp: 1326
Ion Ratio Lower Upper
99 100
42 48.1 29.6 44.4#
71 47.5 36.0 54.0



#6
bis(2-Chloroethyl)ether
Concen: 0.385 ng
RT: 7.055 min Scan# 578
Delta R.T. -0.007 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion: 93 Resp: 1962
Ion Ratio Lower Upper
93 100
63 88.0 69.0 103.6
95 31.7 25.4 38.0

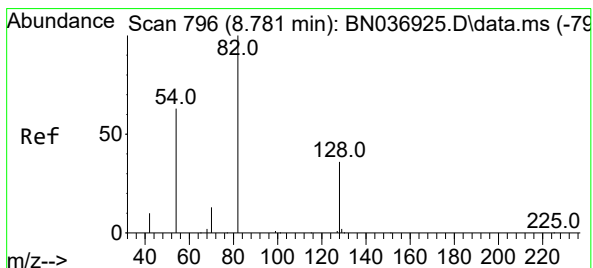
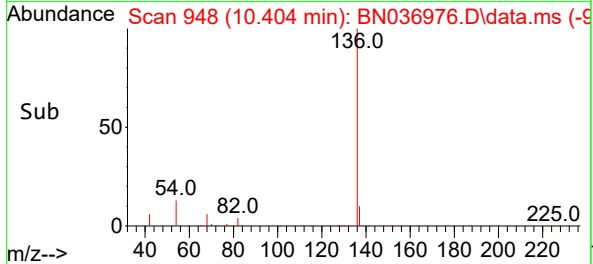
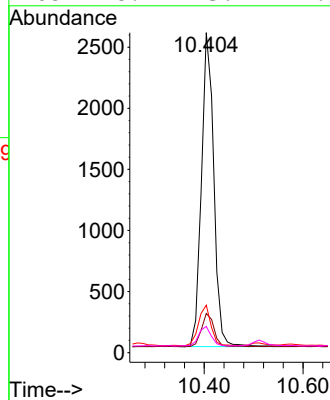
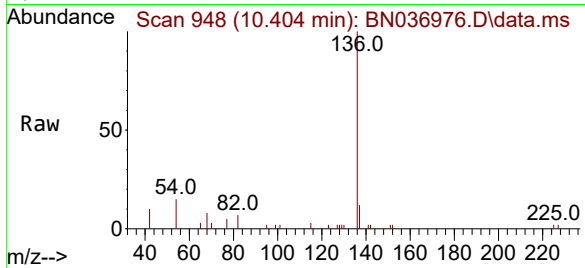




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.404 min Scan# 949
Delta R.T. -0.011 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

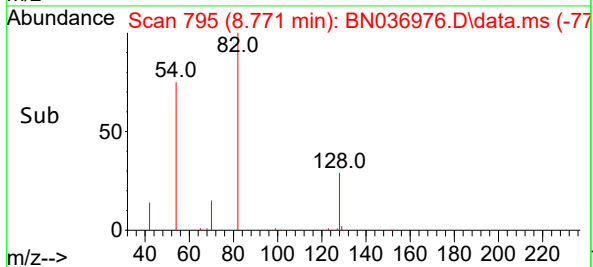
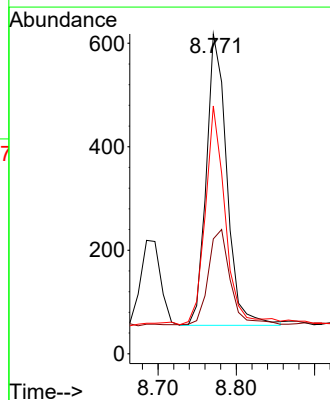
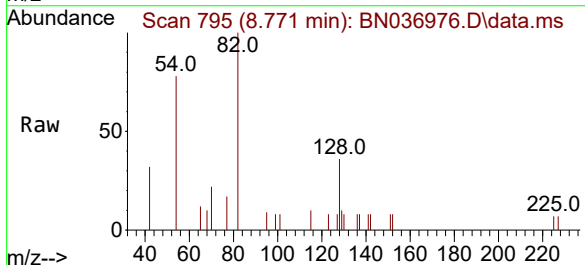
Instrument :
BNA_N
ClientSampleId :
GB2BMDS

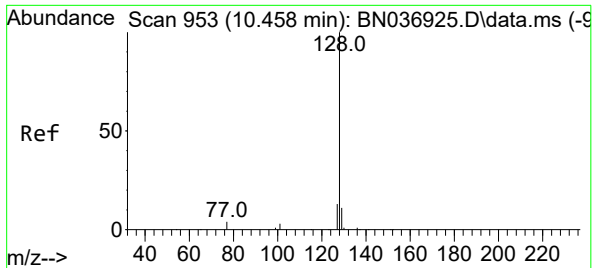
Tgt Ion:136 Resp: 4442
Ion Ratio Lower Upper
136 100
137 12.2 9.7 14.5
54 14.8 8.0 12.0#
68 8.2 5.1 7.7#



#8
Nitrobenzene-d5
Concen: 0.221 ng
RT: 8.771 min Scan# 795
Delta R.T. -0.011 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion: 82 Resp: 1026
Ion Ratio Lower Upper
82 100
128 35.9 30.7 46.1
54 77.5 52.1 78.1

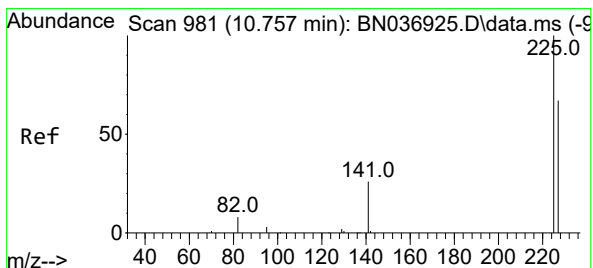
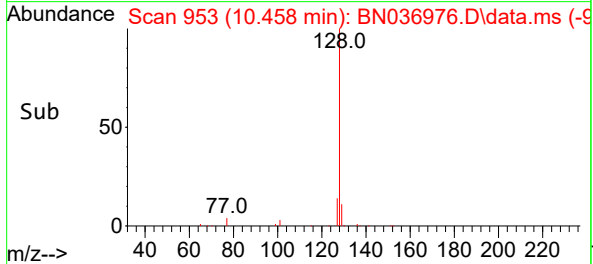
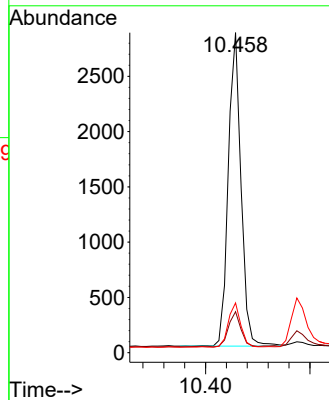
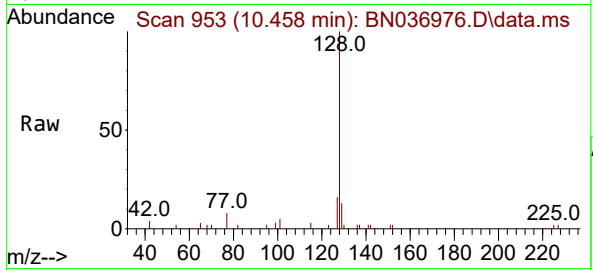




#9
Naphthalene
Concen: 0.372 ng
RT: 10.458 min Scan# 91
Delta R.T. -0.000 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

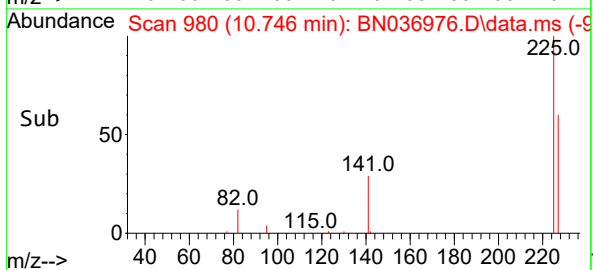
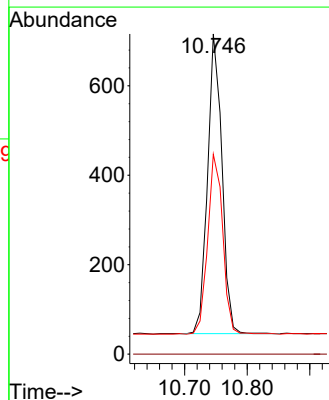
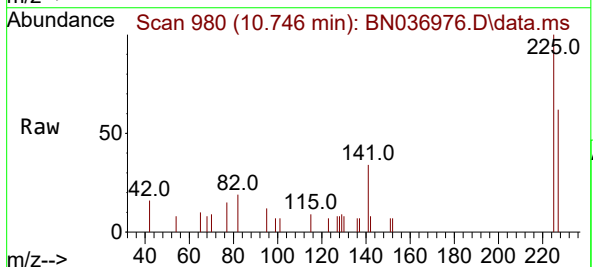
Instrument :
BNA_N
ClientSampleId :
GB2BMSD

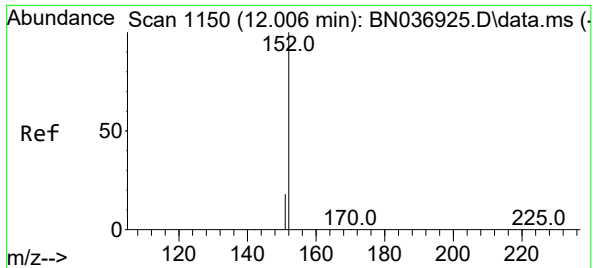
Tgt Ion:128 Resp: 4811
Ion Ratio Lower Upper
128 100
129 12.8 9.8 14.6
127 15.5 11.4 17.2



#10
Hexachlorobutadiene
Concen: 0.380 ng
RT: 10.746 min Scan# 980
Delta R.T. -0.011 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion:225 Resp: 1062
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.0 52.2 78.4

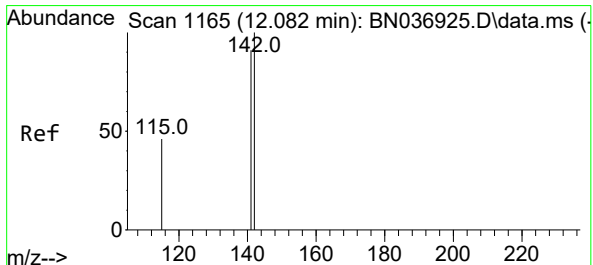
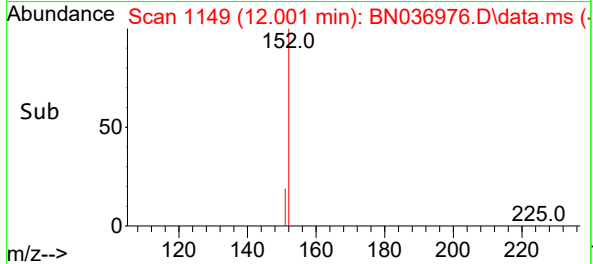
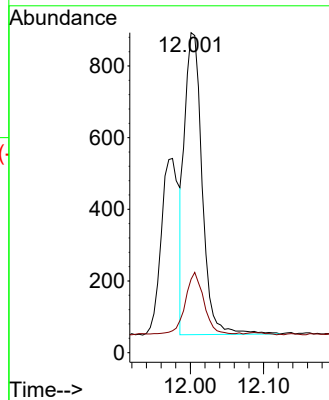
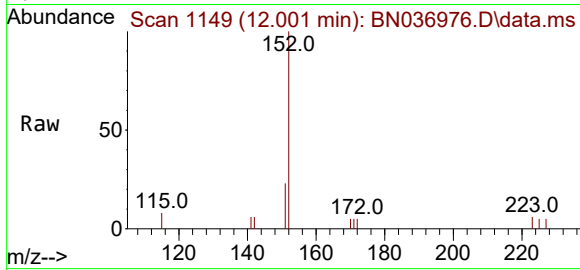




#11
2-Methylnaphthalene-d10
Concen: 0.225 ng
RT: 12.001 min Scan# 1149
Delta R.T. -0.005 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

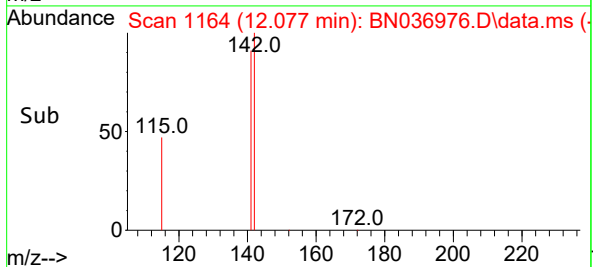
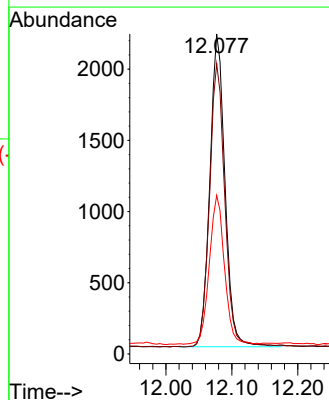
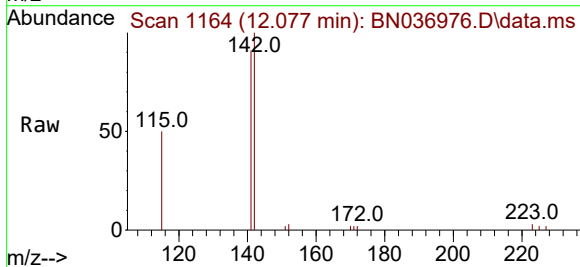
Instrument :
BNA_N
ClientSampleId :
GB2BMSD

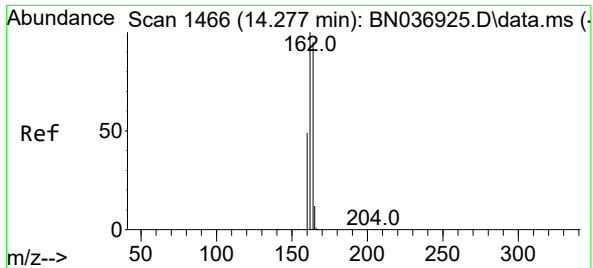
Tgt Ion:152 Resp: 1396
Ion Ratio Lower Upper
152 100
151 21.7 16.9 25.3



#12
2-Methylnaphthalene
Concen: 0.417 ng
RT: 12.077 min Scan# 1164
Delta R.T. -0.005 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion:142 Resp: 3488
Ion Ratio Lower Upper
142 100
141 90.7 72.8 109.2
115 49.6 38.2 57.4

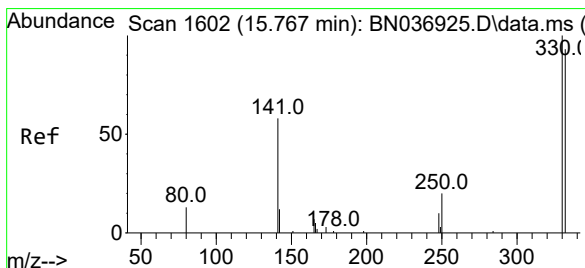
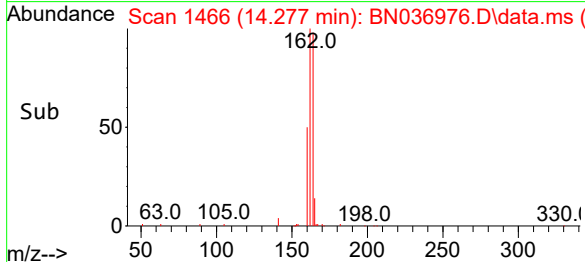
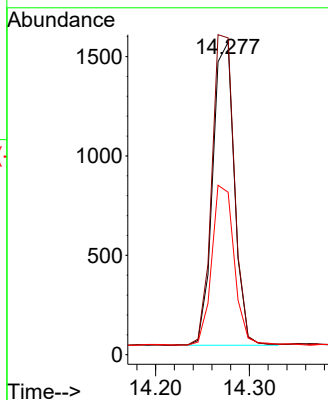
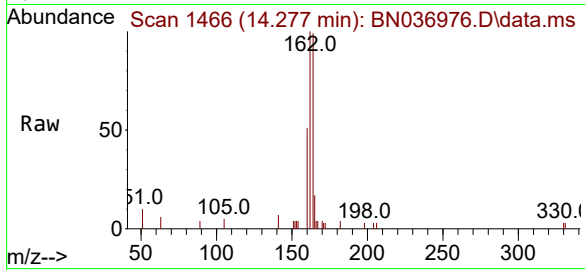




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

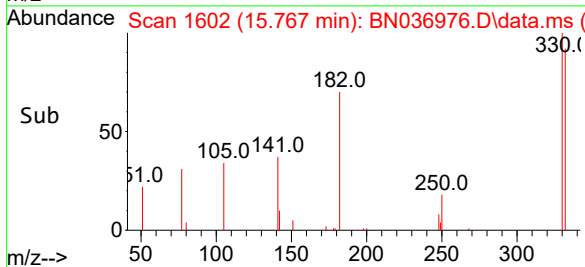
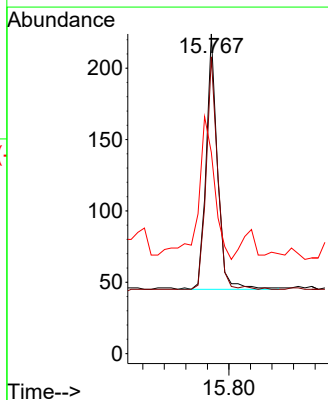
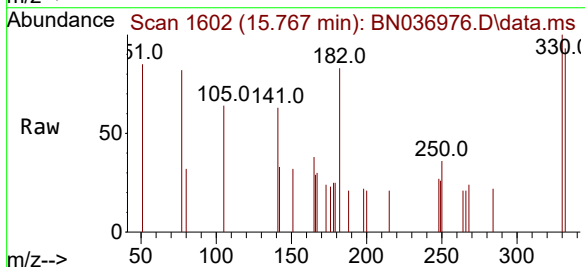
Instrument :
BNA_N
ClientSampleId :
GB2BMSD

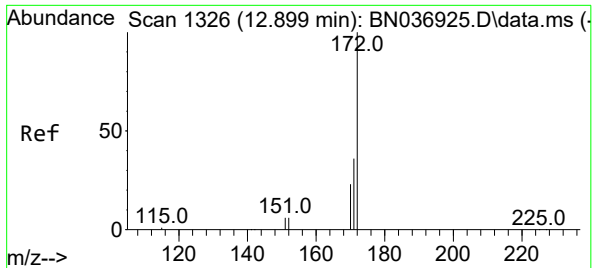
Tgt Ion:164 Resp: 2456
Ion Ratio Lower Upper
164 100
162 101.4 83.8 125.8
160 52.0 42.0 63.0



#14
2,4,6-Tribromophenol
Concen: 0.239 ng
RT: 15.767 min Scan# 1602
Delta R.T. -0.000 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion:330 Resp: 262
Ion Ratio Lower Upper
330 100
332 91.6 76.3 114.5
141 82.1 45.4 68.2#

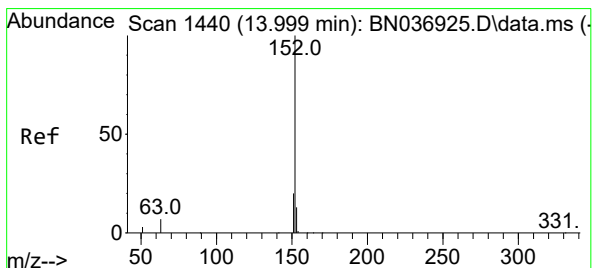
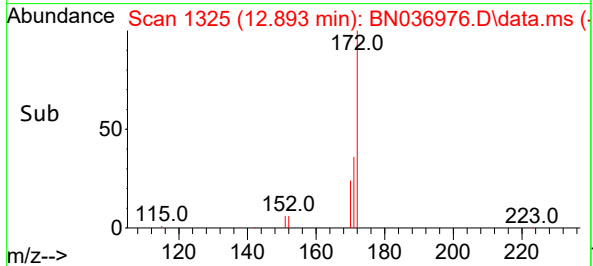
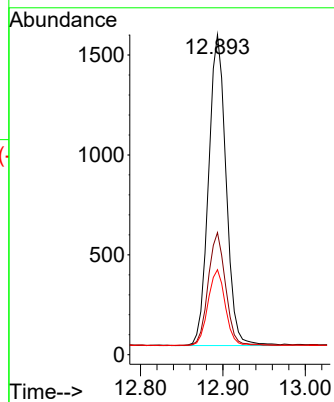
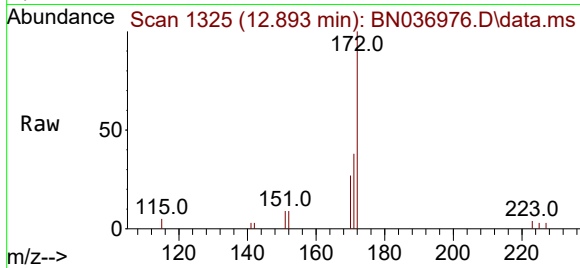




#15
2-Fluorobiphenyl
Concen: 0.194 ng
RT: 12.893 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

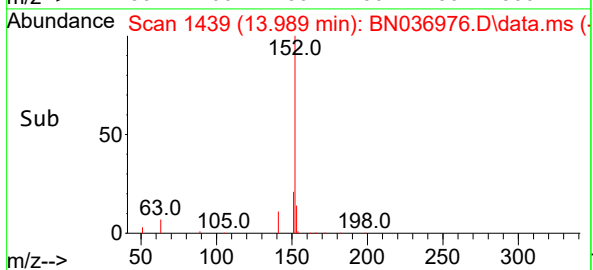
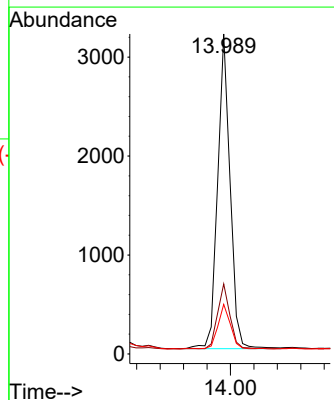
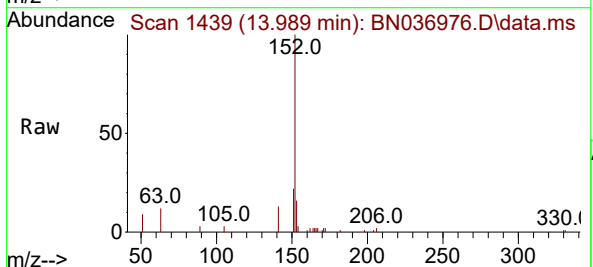
Instrument :
BNA_N
ClientSampleId :
GB2BMSD

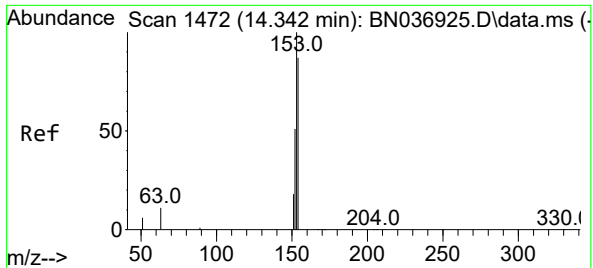
Tgt Ion:172 Resp: 2299
Ion Ratio Lower Upper
172 100
171 38.1 29.4 44.0
170 26.5 19.4 29.0



#16
Acenaphthylene
Concen: 0.389 ng
RT: 13.989 min Scan# 1439
Delta R.T. -0.011 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion:152 Resp: 4666
Ion Ratio Lower Upper
152 100
151 20.3 16.0 24.0
153 14.4 10.2 15.2

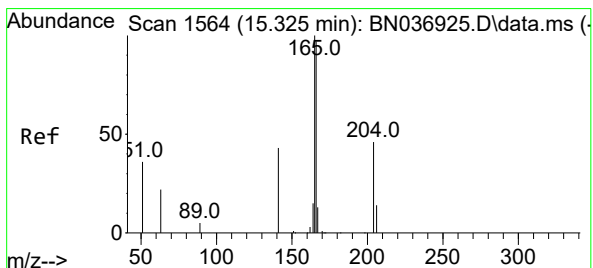
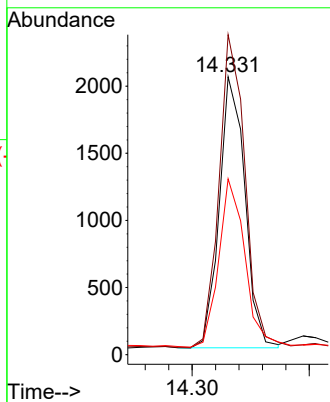
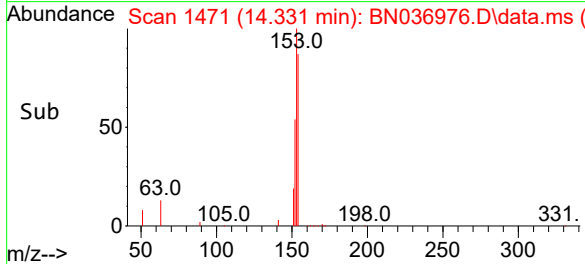
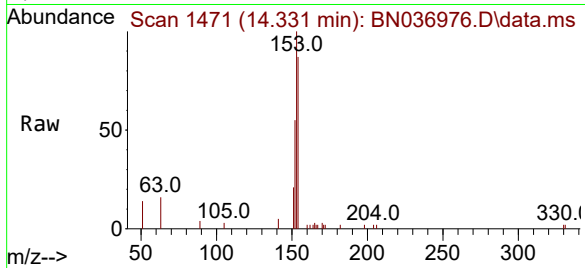




#17
Acenaphthene
Concen: 0.388 ng
RT: 14.331 min Scan# 1471
Delta R.T. -0.011 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

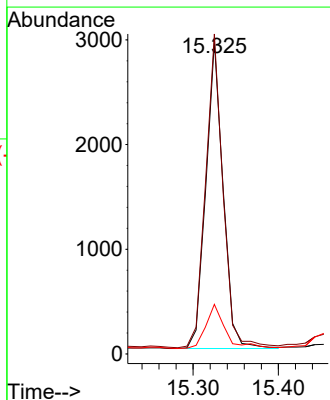
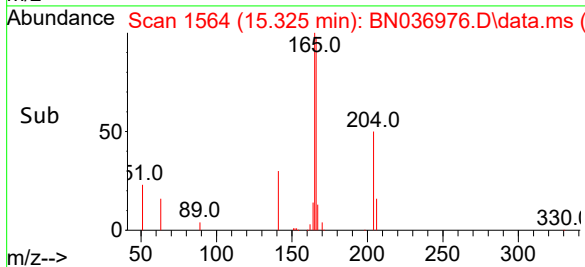
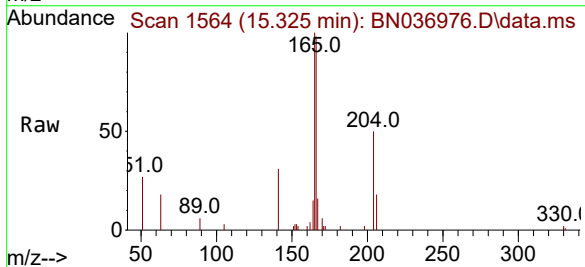
Instrument :
BNA_N
ClientSampleId :
GB2BMDS

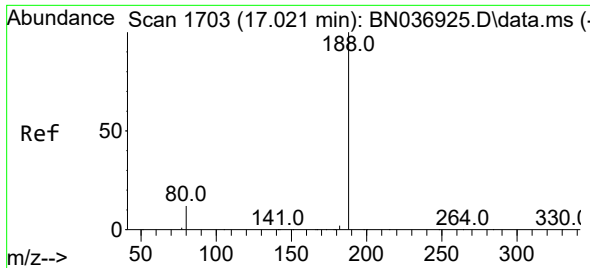
Tgt Ion:154 Resp: 3061
Ion Ratio Lower Upper
154 100
153 117.0 93.4 140.2
152 64.8 49.5 74.3



#18
Fluorene
Concen: 0.400 ng
RT: 15.325 min Scan# 1564
Delta R.T. -0.000 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion:166 Resp: 4121
Ion Ratio Lower Upper
166 100
165 102.6 80.8 121.2
167 16.4 10.8 16.2#

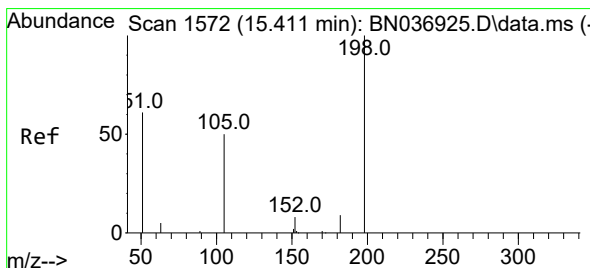
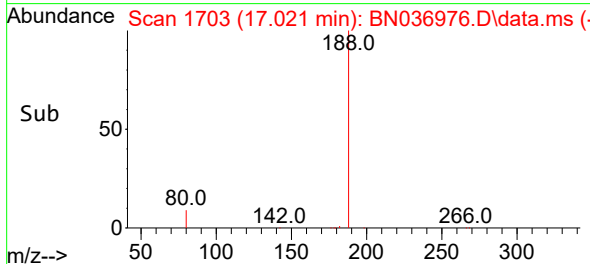
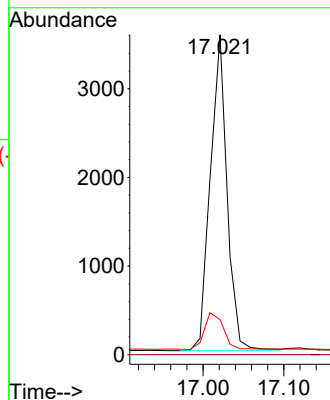
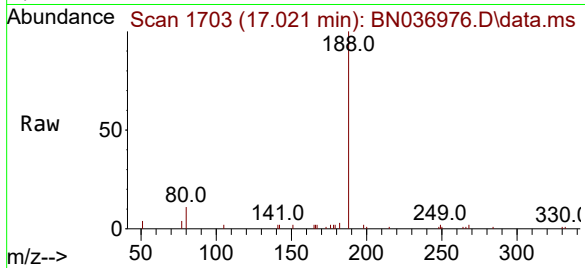




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.021 min Scan# 1703
Delta R.T. -0.000 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

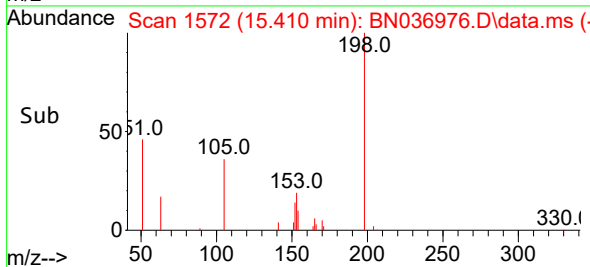
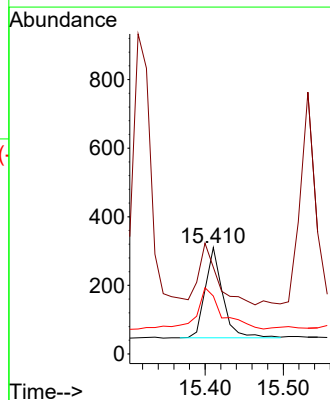
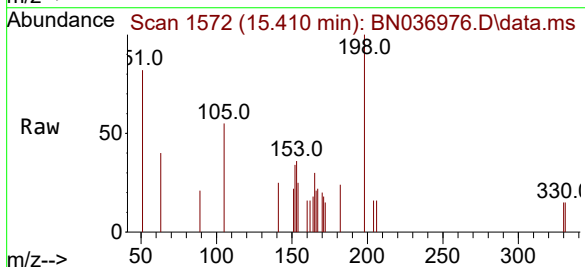
Instrument :
BNA_N
ClientSampleId :
GB2BMDS

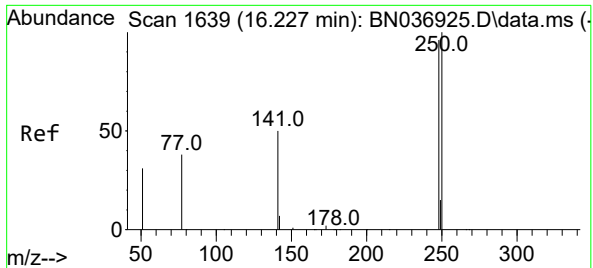
Tgt Ion:188 Resp: 5135
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 11.0 10.7 16.1



#20
4,6-Dinitro-2-methylphenol
Concen: 0.303 ng
RT: 15.410 min Scan# 1572
Delta R.T. -0.001 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

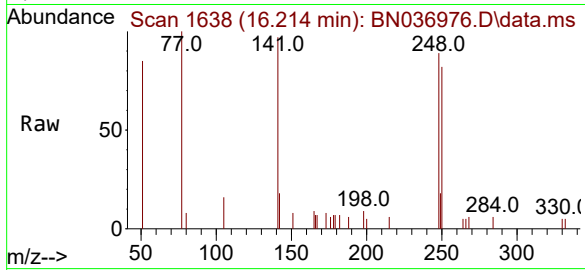
Tgt Ion:198 Resp: 412
Ion Ratio Lower Upper
198 100
51 81.6 97.9 146.9#
105 54.5 50.0 75.0



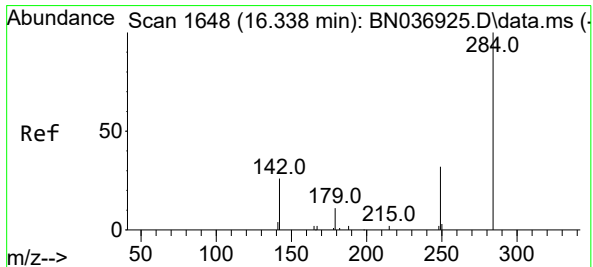
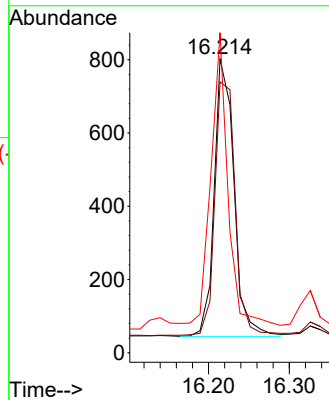
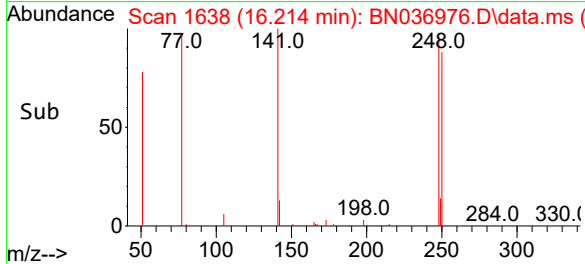


#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.214 min Scan# 1638
Delta R.T. -0.013 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

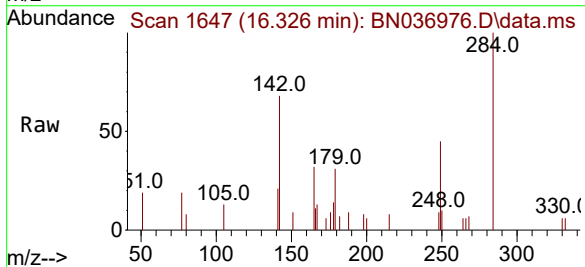
Instrument :
BNA_N
ClientSampleId :
GB2BMSD



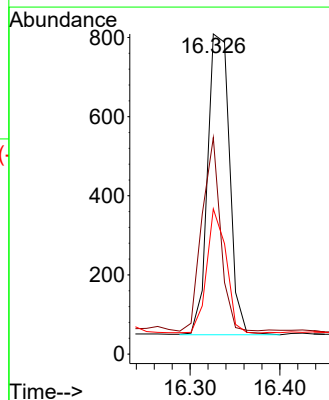
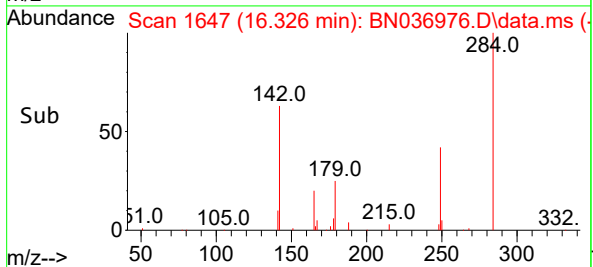
Tgt Ion:248 Resp: 1285
Ion Ratio Lower Upper
248 100
250 92.3 83.7 125.5
141 109.0 43.8 65.8#

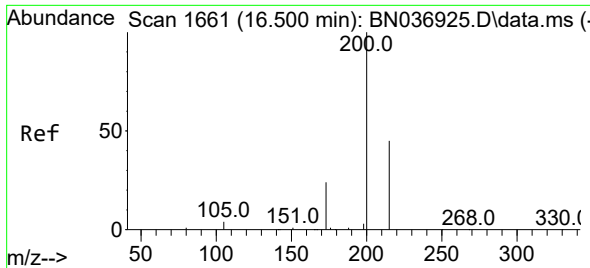


#22
Hexachlorobenzene
Concen: 0.344 ng
RT: 16.326 min Scan# 1647
Delta R.T. -0.013 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53



Tgt Ion:284 Resp: 1291
Ion Ratio Lower Upper
284 100
142 54.8 40.0 60.0
249 36.9 28.2 42.2

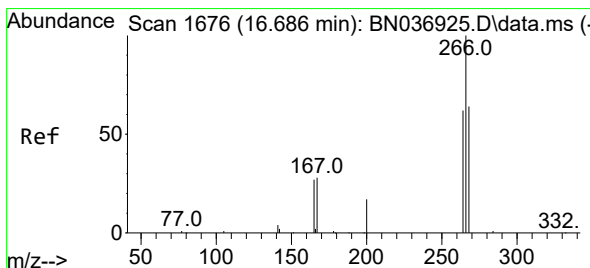
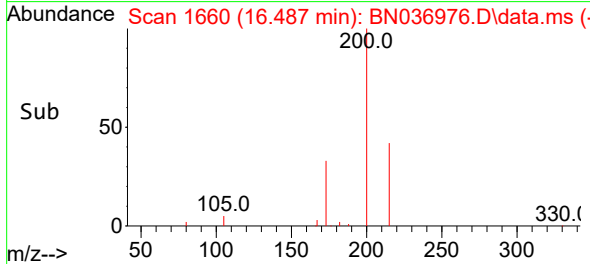
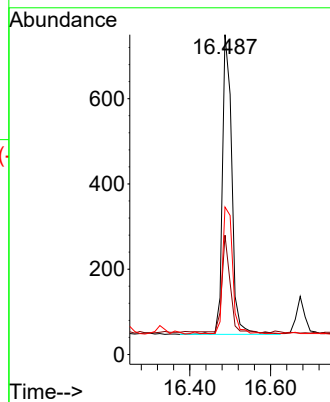
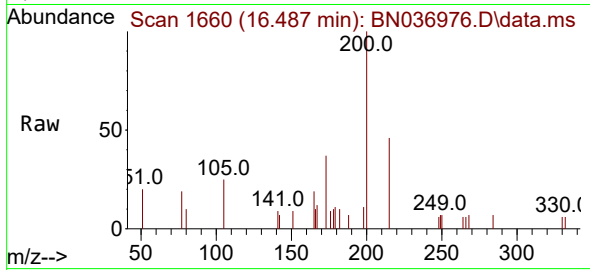




#23
Atrazine
Concen: 0.409 ng
RT: 16.487 min Scan# 1660
Delta R.T. -0.013 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

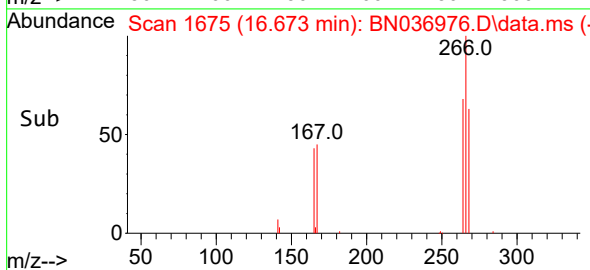
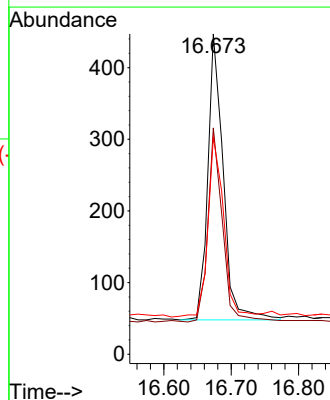
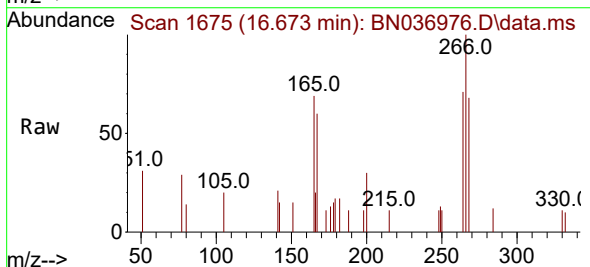
Instrument :
BNA_N
ClientSampleId :
GB2BMSD

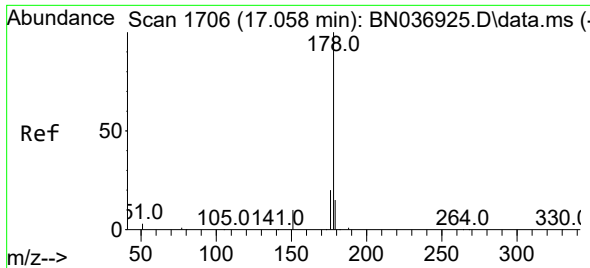
Tgt Ion	Ratio	Lower	Upper
200	100		
173	37.3	22.4	33.6
215	46.1	38.6	57.8



#24
Pentachlorophenol
Concen: 0.315 ng
RT: 16.673 min Scan# 1675
Delta R.T. -0.013 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion	Ratio	Lower	Upper
266	100		
264	64.4	49.9	74.9
268	63.6	52.2	78.4

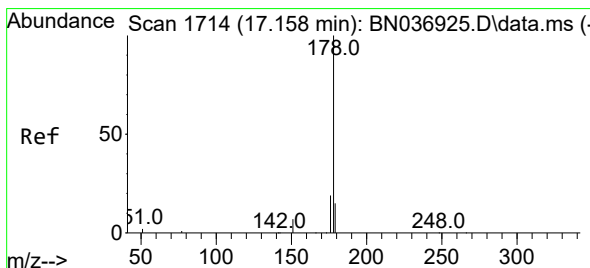
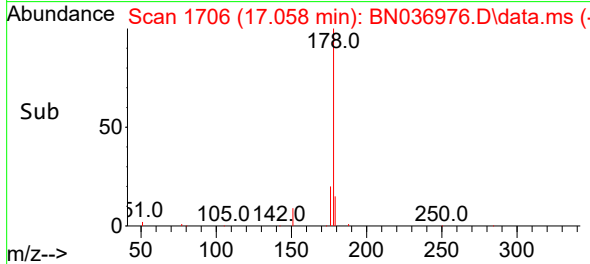
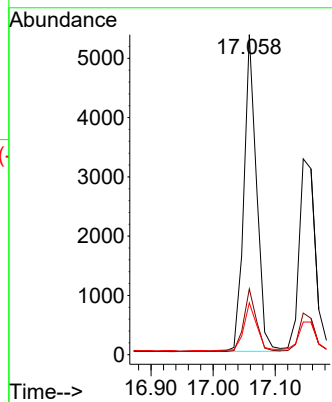
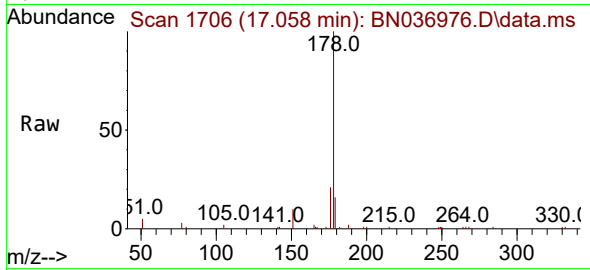




#25
Phenanthrene
Concen: 0.448 ng
RT: 17.058 min Scan# 1712
Delta R.T. -0.000 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

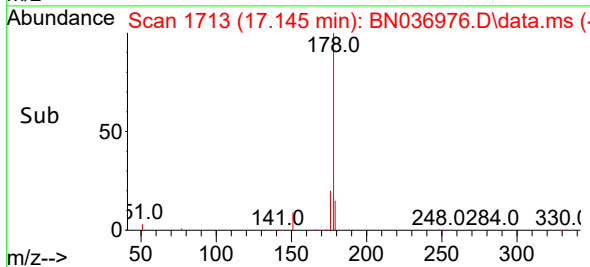
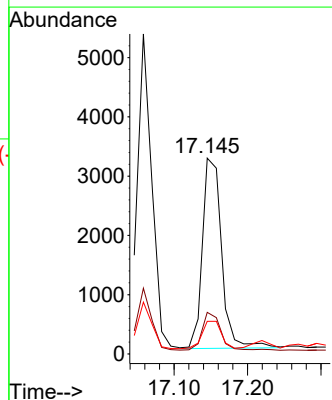
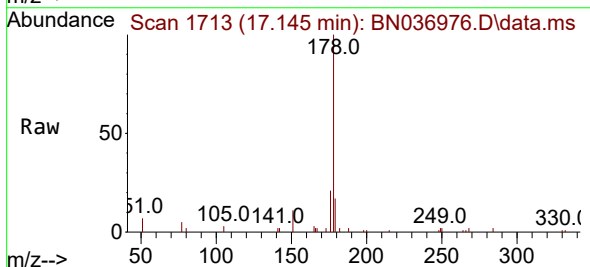
Instrument :
BNA_N
ClientSampleId :
GB2BMDS

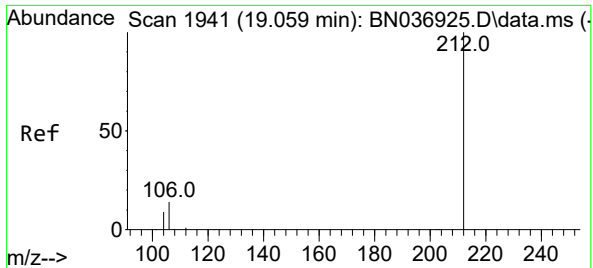
Tgt Ion:178 Resp: 7596
Ion Ratio Lower Upper
178 100
176 19.5 15.7 23.5
179 16.6 12.4 18.6



#26
Anthracene
Concen: 0.381 ng
RT: 17.145 min Scan# 1713
Delta R.T. -0.013 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion:178 Resp: 5847
Ion Ratio Lower Upper
178 100
176 19.7 15.3 22.9
179 14.5 12.1 18.1





#27

Fluoranthene-d10

Concen: 0.234 ng

RT: 19.054 min Scan# 1940

Delta R.T. -0.005 min

Lab File: BN036976.D

Acq: 08 May 2025 16:53

Instrument :

BNA_N

ClientSampleId :

GB2BMSD

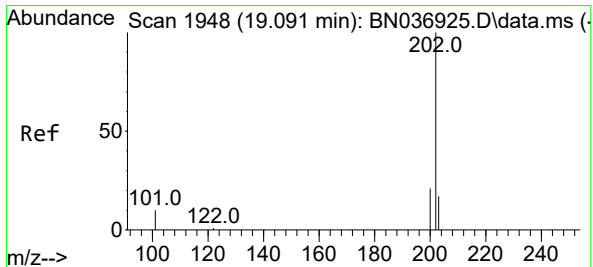
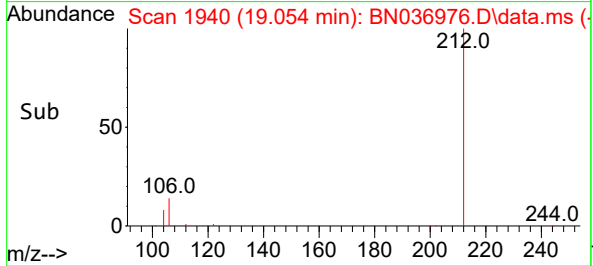
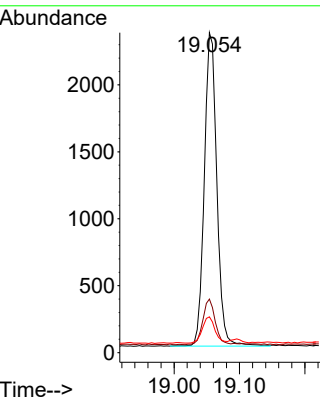
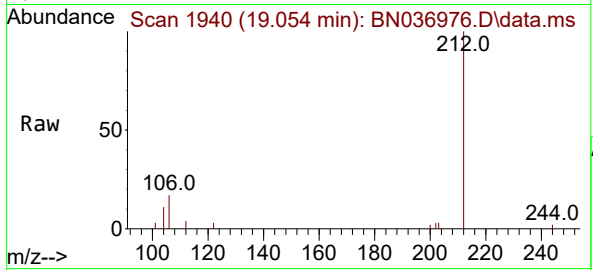
Tgt Ion:212 Resp: 3110

Ion Ratio Lower Upper

212 100

106 14.5 11.6 17.4

104 8.5 7.0 10.4



#28

Fluoranthene

Concen: 0.391 ng

RT: 19.086 min Scan# 1947

Delta R.T. -0.005 min

Lab File: BN036976.D

Acq: 08 May 2025 16:53

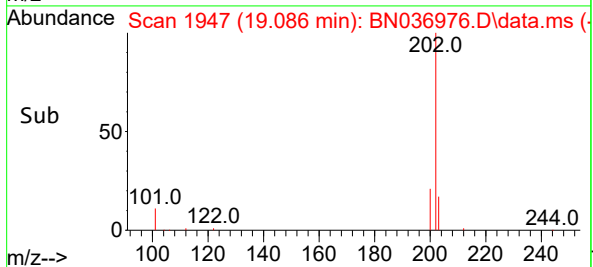
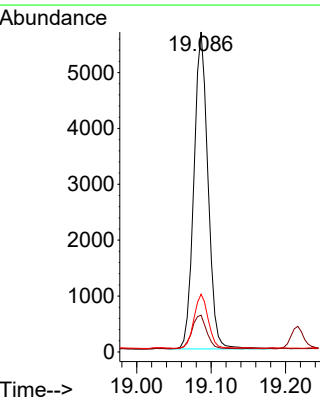
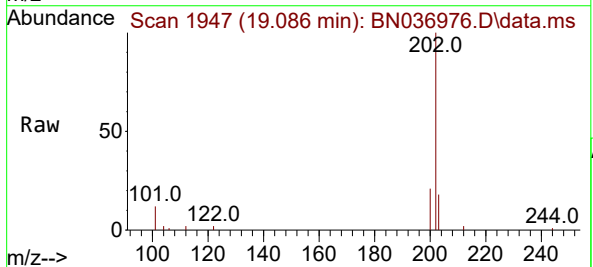
Tgt Ion:202 Resp: 7425

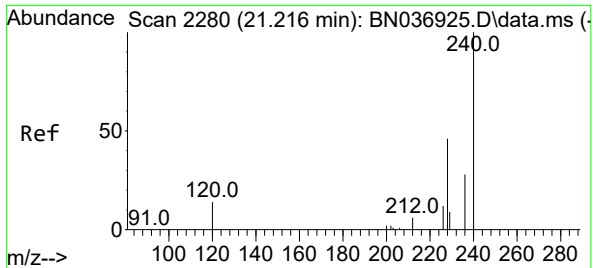
Ion Ratio Lower Upper

202 100

101 11.1 8.5 12.7

203 17.1 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.215 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036976.D

Acq: 08 May 2025 16:53

Instrument :

BNA_N

ClientSampleId :

GB2BMSD

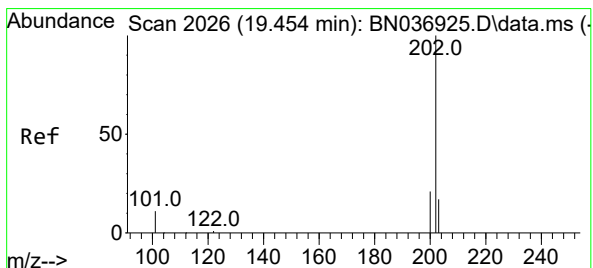
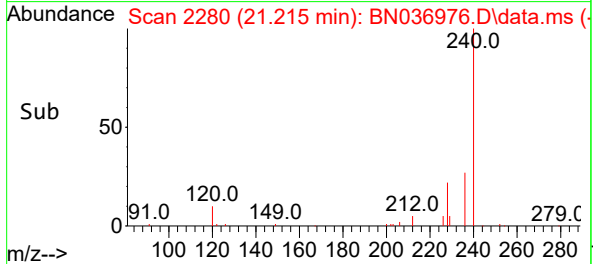
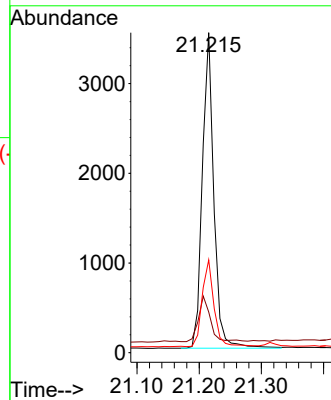
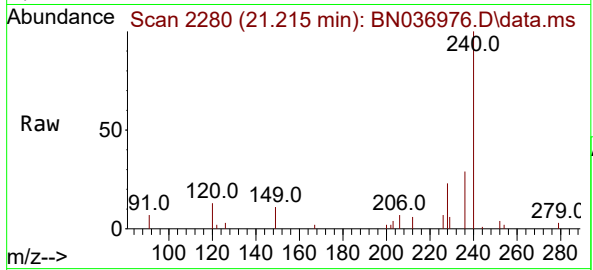
Tgt Ion:240 Resp: 4532

Ion Ratio Lower Upper

240 100

120 12.7 14.1 21.1#

236 29.0 23.8 35.8



#30

Pyrene

Concen: 0.358 ng

RT: 19.449 min Scan# 2025

Delta R.T. -0.005 min

Lab File: BN036976.D

Acq: 08 May 2025 16:53

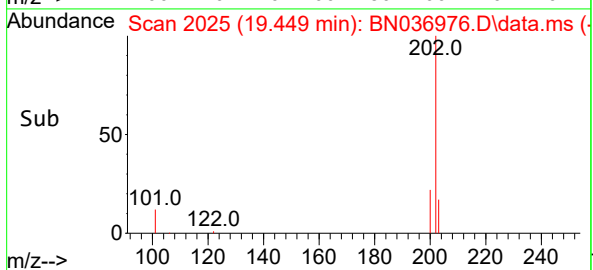
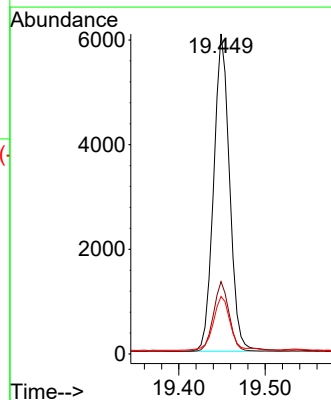
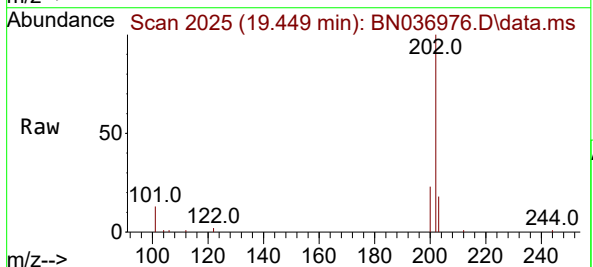
Tgt Ion:202 Resp: 7811

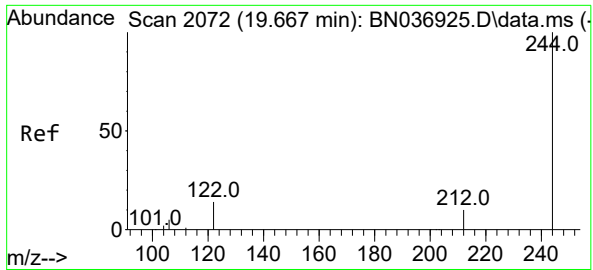
Ion Ratio Lower Upper

202 100

200 21.7 17.0 25.6

203 18.1 14.0 21.0

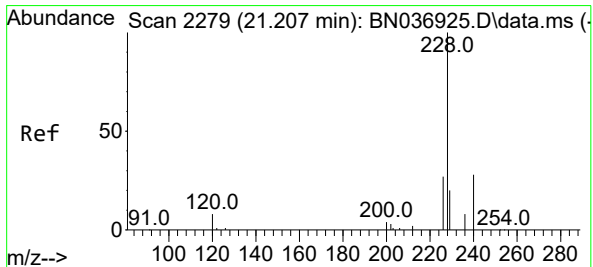
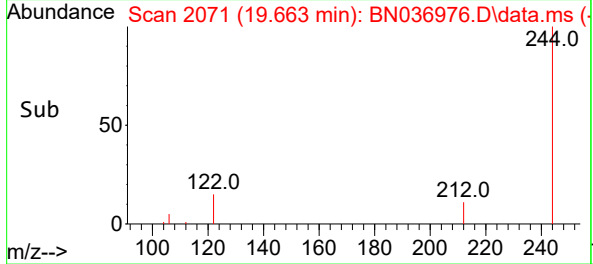
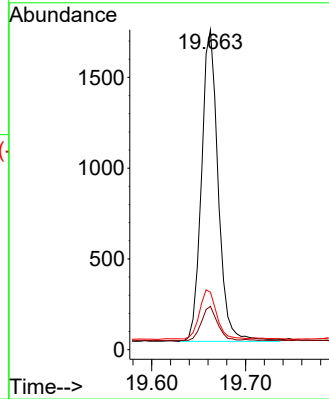
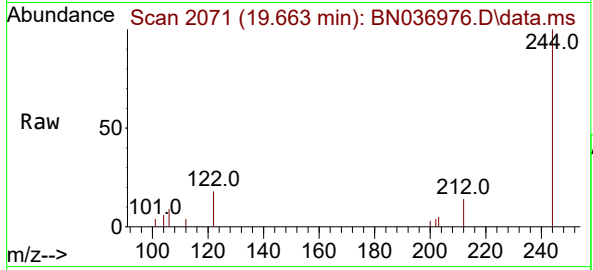




#31
Terphenyl-d14
Concen: 0.199 ng
RT: 19.663 min Scan# 2071
Delta R.T. -0.005 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

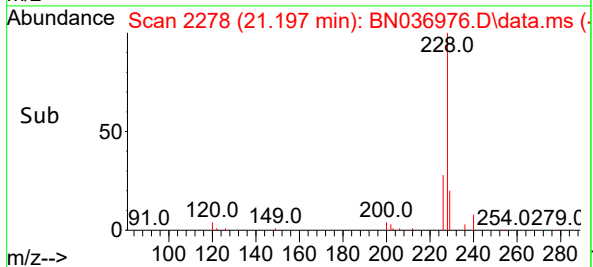
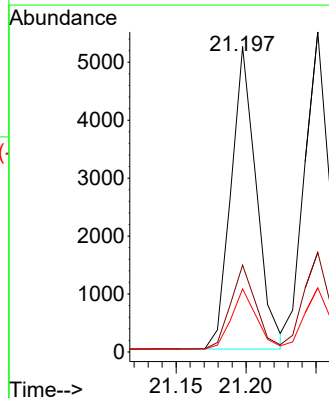
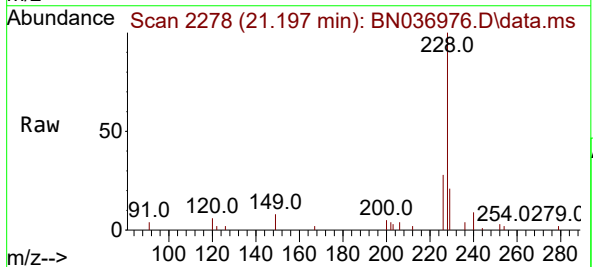
Instrument :
BNA_N
ClientSampleId :
GB2BMSD

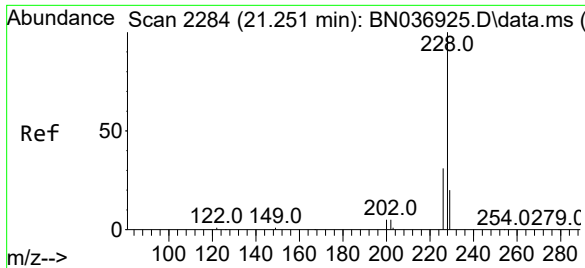
Tgt Ion:244 Resp: 2125
Ion Ratio Lower Upper
244 100
212 13.6 9.6 14.4
122 17.9 12.7 19.1



#32
Benzo(a)anthracene
Concen: 0.394 ng
RT: 21.197 min Scan# 2278
Delta R.T. -0.009 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

Tgt Ion:228 Resp: 6578
Ion Ratio Lower Upper
228 100
226 28.4 22.2 33.4
229 20.6 16.4 24.6





#33

Chrysene

Concen: 0.397 ng

RT: 21.251 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN036976.D

Acq: 08 May 2025 16:53

Instrument :

BNA_N

ClientSampleId :

GB2BMDS

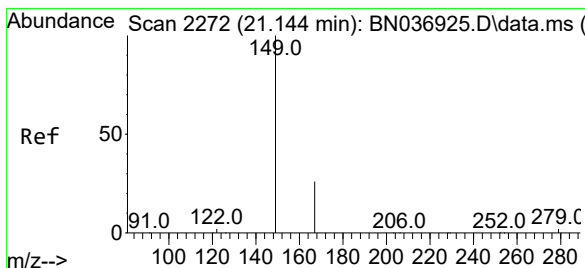
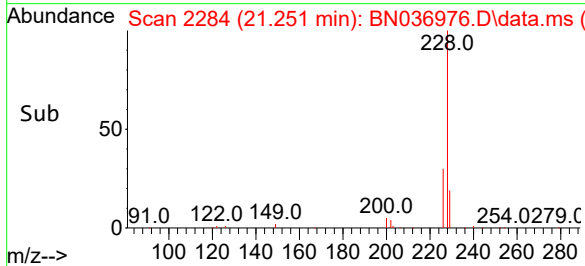
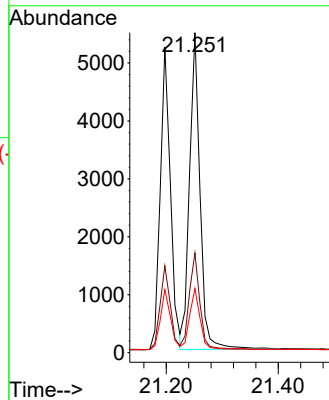
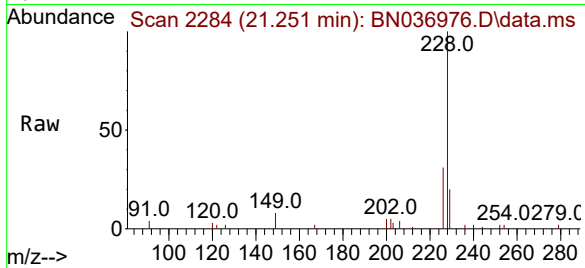
Tgt Ion:228 Resp: 7149

Ion Ratio Lower Upper

228 100

226 31.1 25.5 38.3

229 20.0 16.5 24.7



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.742 ng

RT: 21.144 min Scan# 2272

Delta R.T. -0.000 min

Lab File: BN036976.D

Acq: 08 May 2025 16:53

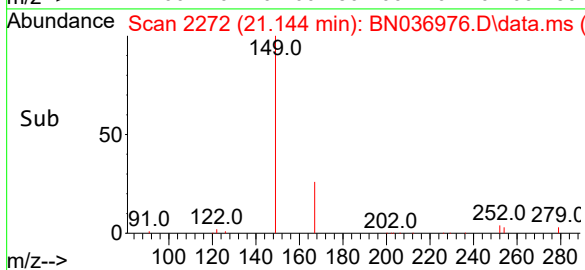
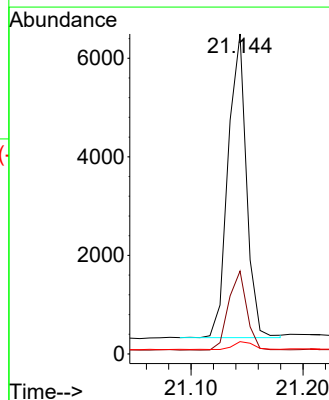
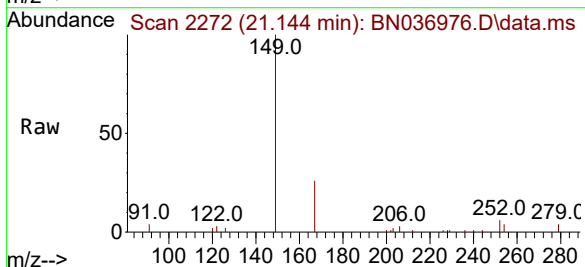
Tgt Ion:149 Resp: 7041

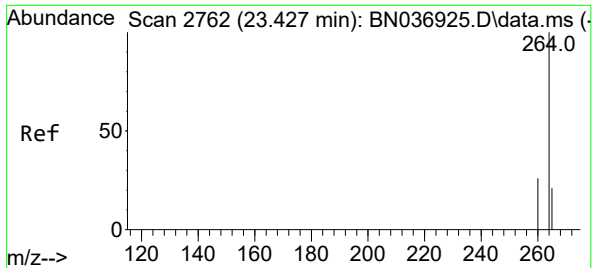
Ion Ratio Lower Upper

149 100

167 25.9 21.0 31.6

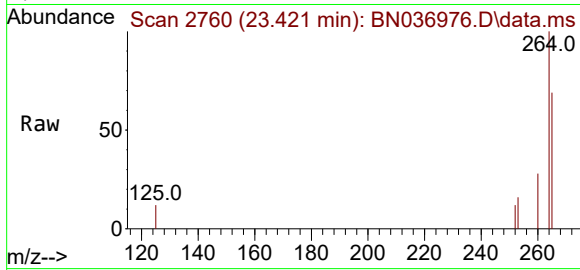
279 2.8 2.7 4.1



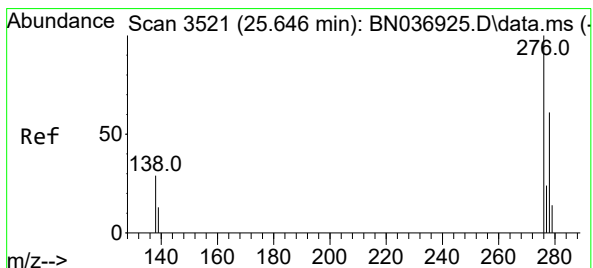
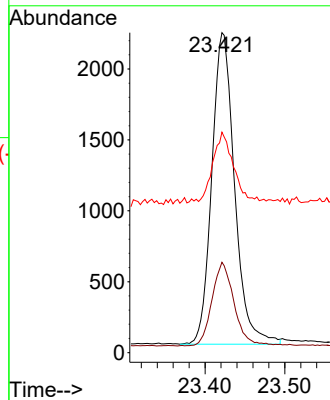
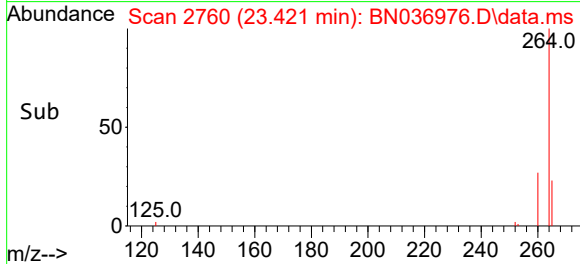


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.421 min Scan# 21
Delta R.T. -0.006 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53

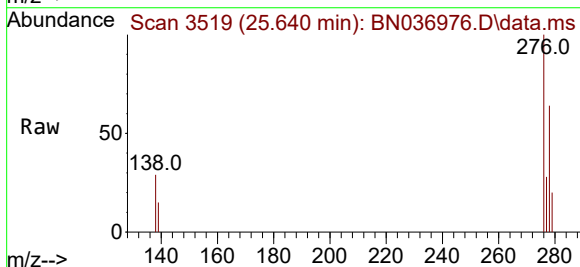
Instrument :
BNA_N
ClientSampleId :
GB2BMDS



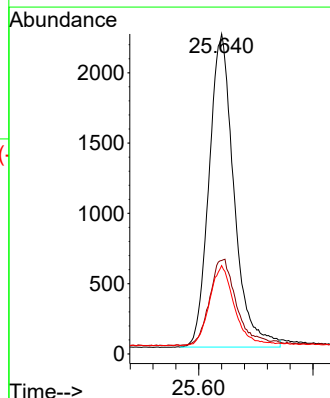
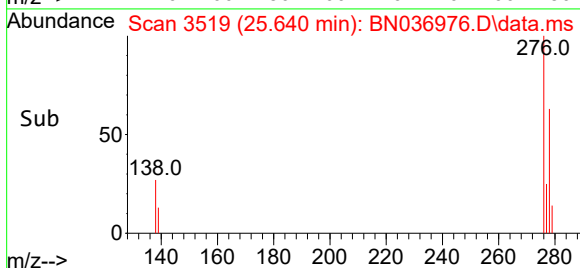
Tgt Ion:264 Resp: 4358
Ion Ratio Lower Upper
264 100
260 28.2 22.2 33.2
265 68.9 65.8 98.6

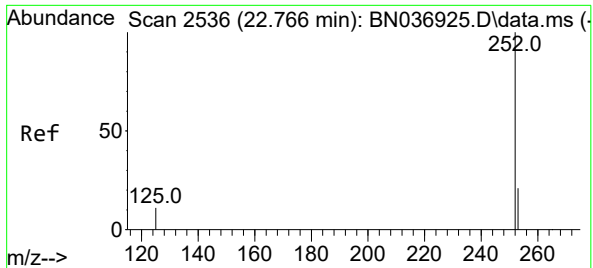


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.379 ng
RT: 25.640 min Scan# 3519
Delta R.T. -0.006 min
Lab File: BN036976.D
Acq: 08 May 2025 16:53



Tgt Ion:276 Resp: 6746
Ion Ratio Lower Upper
276 100
138 29.4 23.0 34.6
277 25.2 20.0 30.0





#37

Benzo(b)fluoranthene

Concen: 0.365 ng

RT: 22.760 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN036976.D

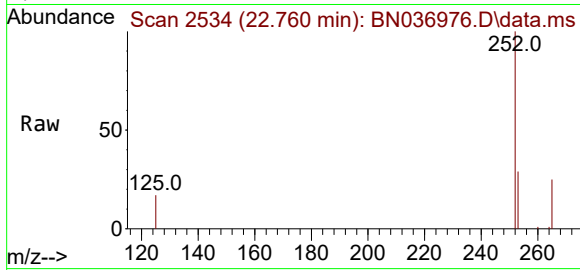
Acq: 08 May 2025 16:53

Instrument :

BNA_N

ClientSampleId :

GB2BM5D



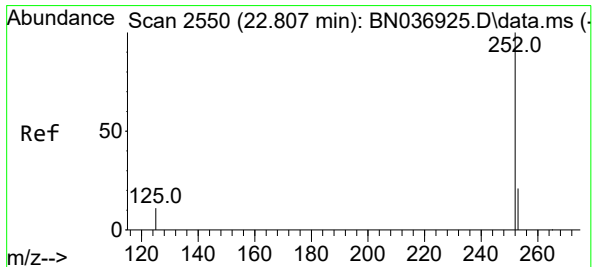
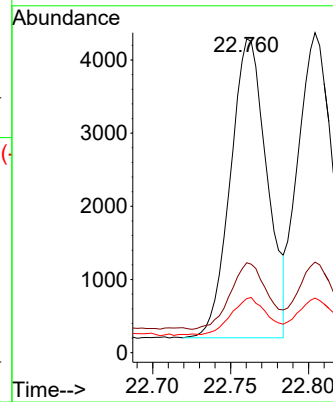
Tgt Ion:252 Resp: 6681

Ion Ratio Lower Upper

252 100

253 28.6 22.1 33.1

125 17.2 14.2 21.2



#38

Benzo(k)fluoranthene

Concen: 0.370 ng

RT: 22.804 min Scan# 2549

Delta R.T. -0.003 min

Lab File: BN036976.D

Acq: 08 May 2025 16:53

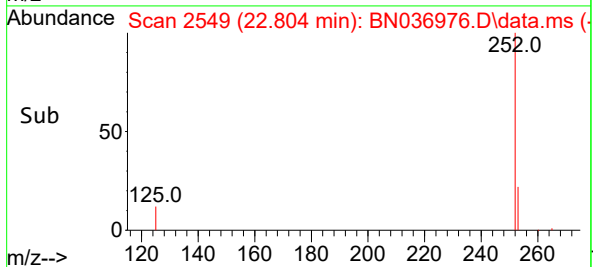
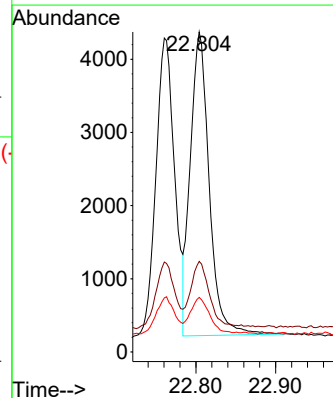
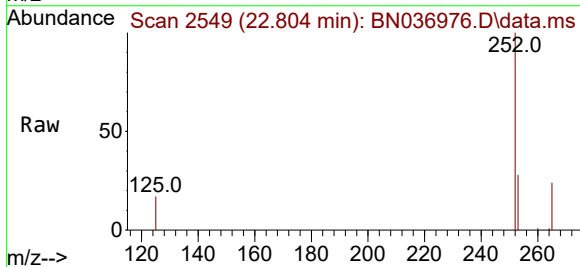
Tgt Ion:252 Resp: 6822

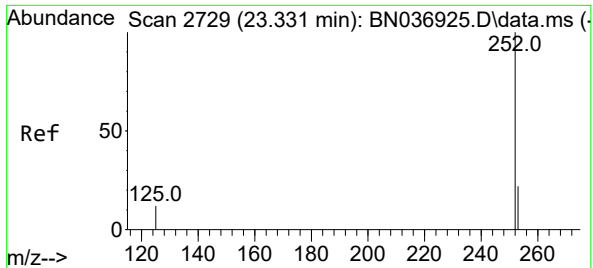
Ion Ratio Lower Upper

252 100

253 28.3 22.8 34.2

125 17.0 14.2 21.2





#39

Benzo(a)pyrene

Concen: 0.392 ng

RT: 23.328 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN036976.D

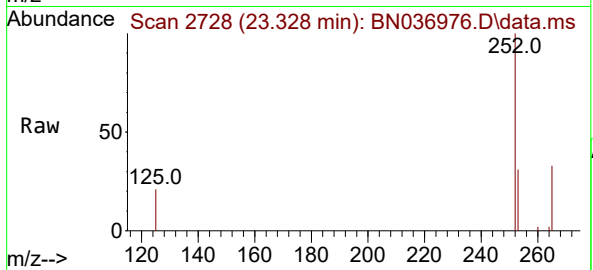
Acq: 08 May 2025 16:53

Instrument :

BNA_N

ClientSampleId :

GB2BMDS



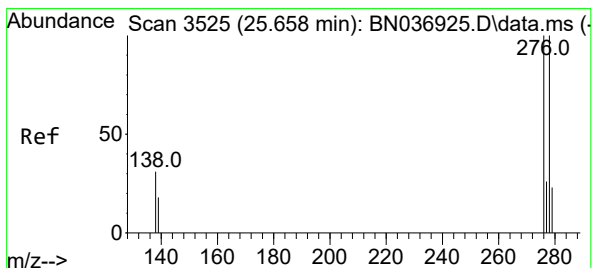
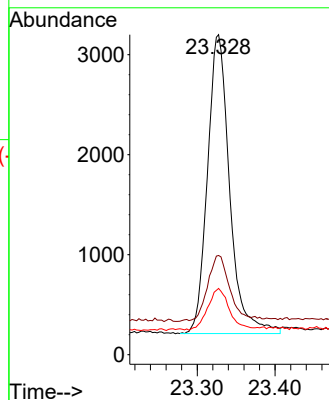
Tgt Ion:252 Resp: 5908

Ion Ratio Lower Upper

252 100

253 31.0 25.9 38.9

125 20.7 17.4 26.0



#40

Dibenzo(a,h)anthracene

Concen: 0.380 ng

RT: 25.655 min Scan# 3524

Delta R.T. -0.003 min

Lab File: BN036976.D

Acq: 08 May 2025 16:53

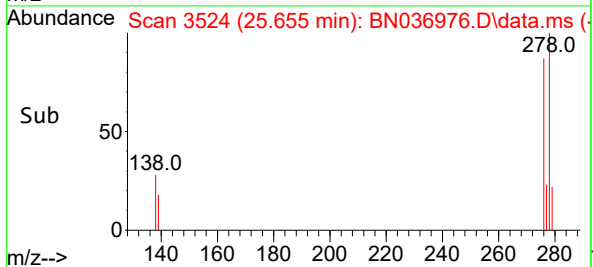
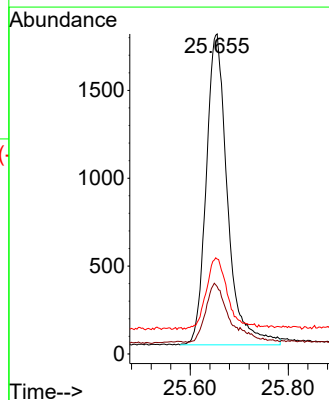
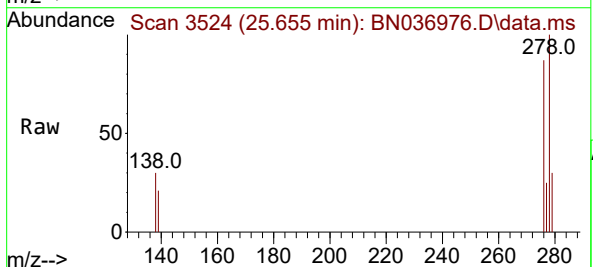
Tgt Ion:278 Resp: 5327

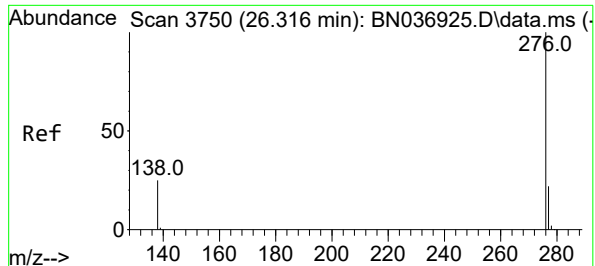
Ion Ratio Lower Upper

278 100

139 21.0 17.4 26.2

279 29.7 24.9 37.3





#41

Benzo(g,h,i)perylene

Concen: 0.347 ng

RT: 26.313 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN036976.D

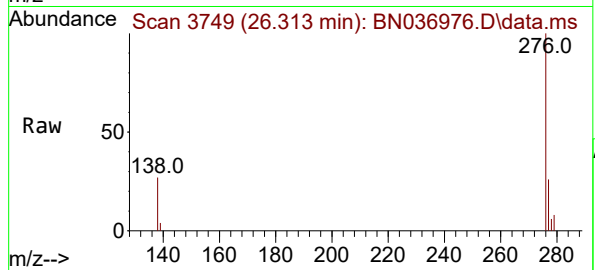
Acq: 08 May 2025 16:53

Instrument :

BNA_N

ClientSampleId :

GB2BMDS



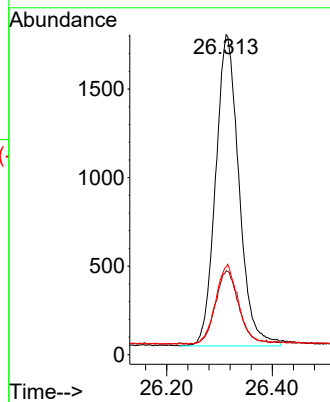
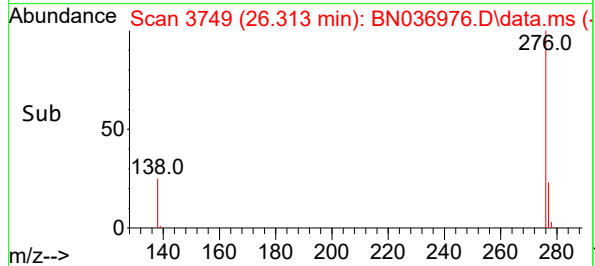
Tgt Ion:276 Resp: 5396

Ion Ratio Lower Upper

276 100

277 26.2 20.2 30.2

138 27.4 21.9 32.9



Manual Integration Report

Sequence:

BN042825

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN036923.D	1,4-Dioxane	Rahul	4/29/2025 8:53:49 AM	Jagrut	4/29/2025 11:57:36 AM	Peak Integrated by Software
SSTDICC0.2	BN036924.D	1,4-Dioxane	Rahul	4/29/2025 8:53:52 AM	Jagrut	4/29/2025 11:57:39 AM	Peak Integrated by Software



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

Manual Integration Report

Sequence:

BN050825

Instrument

BNA_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised
By

Supervised On

Reason

Manual Integration Report

Sequence:

bn051425

Instrument

BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.2	BN037000.D	Benzo(b)fluoranthene	Rahul	5/15/2025 9:23:24 AM	Jagrut	5/15/2025 3:49:25 PM	Peak Integrated by Software
SSTDCCC0.4	BN037009.D	1,4-Dioxane	Rahul	5/15/2025 9:23:28 AM	Jagrut	5/15/2025 3:49:28 PM	Peak Integrated by Software
Q1872-13	BN037013.D	Benzo(b)fluoranthene	Rahul	5/15/2025 9:23:30 AM	Jagrut	5/15/2025 3:49:31 PM	Peak Integrated by Software
Q1872-13DL	BN037014.D	Benzo(k)fluoranthene	Rahul	5/15/2025 9:23:33 AM	Jagrut	5/15/2025 3:49:33 PM	Peak Integrated by Software

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN042825

Review By	Rahul	Review On	4/29/2025 8:54:47 AM
Supervise By	Jagrut	Supervise On	4/29/2025 11:57:54 AM
SubDirectory	BN042825	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN042825
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036922.D	28 Apr 2025 10:56	RC/JU	Ok
2	SSTDICC0.1	BN036923.D	28 Apr 2025 11:35	RC/JU	Ok,M
3	SSTDICC0.2	BN036924.D	28 Apr 2025 12:11	RC/JU	Ok,M
4	SSTDICCC0.4	BN036925.D	28 Apr 2025 12:47	RC/JU	Ok
5	SSTDICC0.8	BN036926.D	28 Apr 2025 13:24	RC/JU	Ok
6	SSTDICC1.6	BN036927.D	28 Apr 2025 14:00	RC/JU	Ok
7	SSTDICC3.2	BN036928.D	28 Apr 2025 14:36	RC/JU	Ok
8	SSTDICC5.0	BN036929.D	28 Apr 2025 15:12	RC/JU	Ok
9	SSTDICV0.4	BN036930.D	28 Apr 2025 15:51	RC/JU	Ok
10	PB167430BL	BN036931.D	28 Apr 2025 17:39	RC/JU	Not Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN050825

Review By	Rahul	Review On	5/9/2025 9:44:58 AM
Supervise By	Jagrut	Supervise On	5/9/2025 3:46:05 PM
SubDirectory	BN050825	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method BN042825
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731		
CCC	SP6735		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036971.D	08 May 2025 13:49	RC/JU	Ok
2	SSTDCCC0.4	BN036972.D	08 May 2025 14:28	RC/JU	Ok
3	PB167915BL	BN036973.D	08 May 2025 15:04	RC/JU	Ok
4	Q1939-04	BN036974.D	08 May 2025 15:40	RC/JU	Ok
5	Q1939-04MS	BN036975.D	08 May 2025 16:16	RC/JU	Ok
6	Q1939-04MSD	BN036976.D	08 May 2025 16:53	RC/JU	Ok
7	Q1939-02	BN036977.D	08 May 2025 17:29	RC/JU	Ok
8	Q1939-06	BN036978.D	08 May 2025 18:05	RC/JU	Ok,M
9	PB167915BS	BN036979.D	08 May 2025 18:41	RC/JU	Ok
10	SSTDCCC0.4	BN036980.D	08 May 2025 19:18	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN051425

Review By	Rahul	Review On	5/15/2025 9:39:49 AM
Supervise By	Jagrut	Supervise On	5/15/2025 3:50:12 PM
SubDirectory	BN051425	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn051425
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN036998.D	13 May 2025 17:02	RC/JU	Ok
2	SSTDIC0.1	BN036999.D	13 May 2025 17:41	RC/JU	Ok
3	SSTDIC0.2	BN037000.D	13 May 2025 18:17	RC/JU	Ok,M
4	SSTDIC0.4	BN037001.D	13 May 2025 18:53	RC/JU	Ok
5	SSTDIC0.8	BN037002.D	13 May 2025 19:29	RC/JU	Ok
6	SSTDIC1.6	BN037003.D	13 May 2025 20:05	RC/JU	Ok
7	SSTDIC3.2	BN037004.D	13 May 2025 20:41	RC/JU	Ok
8	SSTDIC5.0	BN037005.D	13 May 2025 21:17	RC/JU	Ok
9	SSTDICV0.4	BN037006.D	13 May 2025 22:29	RC/JU	Ok
10	PB167888BL	BN037007.D	13 May 2025 23:42	RC/JU	Not Ok
11	DFTPP	BN037008.D	14 May 2025 09:37	RC/JU	Ok
12	SSTDIC0.4	BN037009.D	14 May 2025 10:31	RC/JU	Ok,M
13	PB167952BL	BN037010.D	14 May 2025 11:20	RC/JU	Ok
14	Q2000-01	BN037011.D	14 May 2025 12:03	RC/JU	Dilution
15	Q2000-01DL	BN037012.D	14 May 2025 13:29	RC/JU	Ok
16	Q1872-13	BN037013.D	14 May 2025 14:46	RC/JU	Dilution
17	Q1872-13DL	BN037014.D	14 May 2025 15:48	RC/JU	Ok,M
18	Q1985-01	BN037015.D	14 May 2025 16:48	RC/JU	Ok
19	Q2012-01	BN037016.D	14 May 2025 17:24	RC/JU	Dilution
20	Q2012-02	BN037017.D	14 May 2025 18:00	RC/JU	Ok
21	Q2012-03	BN037018.D	14 May 2025 18:36	RC/JU	Ok,M

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN051425

Review By	Rahul	Review On	5/15/2025 9:39:49 AM
Supervise By	Jagrut	Supervise On	5/15/2025 3:50:12 PM
SubDirectory	BN051425	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn051425
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q2013-02	BN037019.D	14 May 2025 19:12	RC/JU	Ok
23	Q2013-03	BN037020.D	14 May 2025 19:48	RC/JU	Ok
24	PB167952BS	BN037021.D	14 May 2025 20:24	RC/JU	Ok,M
25	PB167952BSD	BN037022.D	14 May 2025 21:00	RC/JU	Ok,M
26	SSTDCCC0.4	BN037023.D	14 May 2025 21:36	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN042825

Review By	Rahul	Review On	4/29/2025 8:54:47 AM
Supervise By	Jagrut	Supervise On	4/29/2025 11:57:54 AM
SubDirectory	BN042825	HP Acquire Method	BNA_N, 8270_HP Processing Method BN042825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036922.D	28 Apr 2025 10:56		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN036923.D	28 Apr 2025 11:35	Compound#20 removed from 0.1 ppm	RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN036924.D	28 Apr 2025 12:11		RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN036925.D	28 Apr 2025 12:47		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN036926.D	28 Apr 2025 13:24		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN036927.D	28 Apr 2025 14:00		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN036928.D	28 Apr 2025 14:36		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN036929.D	28 Apr 2025 15:12		RC/JU	Ok
9	SSTDICV0.4	ICVBN042825	BN036930.D	28 Apr 2025 15:51		RC/JU	Ok
10	PB167430BL	PB167430BL	BN036931.D	28 Apr 2025 17:39	Internal Standard Fail, Analyzed for contamination check	RC/JU	Not Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN050825

Review By	Rahul	Review On	5/9/2025 9:44:58 AM
Supervise By	Jagrut	Supervise On	5/9/2025 3:46:05 PM
SubDirectory	BN050825	HP Acquire Method	BNA_N, 8270_HP Processing Method BN042825

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6738,SP6736,SP6735,SP6734,SP6733,SP6732,SP6731
CCC	SP6735
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036971.D	08 May 2025 13:49		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN036972.D	08 May 2025 14:28		RC/JU	Ok
3	PB167915BL	PB167915BL	BN036973.D	08 May 2025 15:04		RC/JU	Ok
4	Q1939-04	GB2B	BN036974.D	08 May 2025 15:40		RC/JU	Ok
5	Q1939-04MS	GB2BMS	BN036975.D	08 May 2025 16:16		RC/JU	Ok
6	Q1939-04MSD	GB2BMSD	BN036976.D	08 May 2025 16:53		RC/JU	Ok
7	Q1939-02	GB1B	BN036977.D	08 May 2025 17:29		RC/JU	Ok
8	Q1939-06	GB3B	BN036978.D	08 May 2025 18:05	Internal Standard Fail	RC/JU	Ok,M
9	PB167915BS	PB167915BS	BN036979.D	08 May 2025 18:41		RC/JU	Ok
10	SSTDCCC0.4	SSTDCCC0.4EC	BN036980.D	08 May 2025 19:18		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN051425

Review By	Rahul	Review On	5/15/2025 9:39:49 AM
Supervise By	Jagrut	Supervise On	5/15/2025 3:50:12 PM
SubDirectory	BN051425	HP Acquire Method	BNA_N, 8270_HP Processing Method bn051425

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775
CCC	SP6779
Internal Standard/PEM	SP6740,1ul/100ul sample
ICV/I.BLK	SP6768
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN036998.D	13 May 2025 17:02		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN036999.D	13 May 2025 17:41	Compound #02,04,05,20 removed from 0.1ppm	RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN037000.D	13 May 2025 18:17		RC/JU	Ok,M
4	SSTDICCC0.4	SSTDICCC0.4	BN037001.D	13 May 2025 18:53	Compound #20 kept on QR	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN037002.D	13 May 2025 19:29		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN037003.D	13 May 2025 20:05		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN037004.D	13 May 2025 20:41		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN037005.D	13 May 2025 21:17		RC/JU	Ok
9	SSTDICV0.4	ICVBN051424	BN037006.D	13 May 2025 22:29		RC/JU	Ok
10	PB167888BL	PB167888BL	BN037007.D	13 May 2025 23:42	Analyzed for contamination check	RC/JU	Not Ok
11	DFTPP	DFTPP	BN037008.D	14 May 2025 09:37		RC/JU	Ok
12	SSTDCCC0.4	SSTDCCC0.4	BN037009.D	14 May 2025 10:31		RC/JU	Ok,M
13	PB167952BL	PB167952BL	BN037010.D	14 May 2025 11:20		RC/JU	Ok
14	Q2000-01	38072-062223	BN037011.D	14 May 2025 12:03	PT Sample, Need 50X Dilution	RC/JU	Dilution
15	Q2000-01DL	38072-062223DL	BN037012.D	14 May 2025 13:29		RC/JU	Ok
16	Q1872-13	HW0425-PT-PAH-SOIL	BN037013.D	14 May 2025 14:46	PT Sample, Need 10X Dilution	RC/JU	Dilution
17	Q1872-13DL	HW0425-PT-PAH-SOIL	BN037014.D	14 May 2025 15:48		RC/JU	Ok,M

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN051425

Review By	Rahul	Review On	5/15/2025 9:39:49 AM
Supervise By	Jagrut	Supervise On	5/15/2025 3:50:12 PM
SubDirectory	BN051425	HP Acquire Method	BNA_N, 8270_HP Processing Method bn051425
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775		
CCC	SP6779		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

18	Q1985-01	RW8-BW-20250507	BN037015.D	14 May 2025 16:48		RC/JU	Ok
19	Q2012-01	RW5-SP100-20250509	BN037016.D	14 May 2025 17:24	Need 2X Dilution	RC/JU	Dilution
20	Q2012-02	RW5-SP201-20250509	BN037017.D	14 May 2025 18:00		RC/JU	Ok
21	Q2012-03	RW5-SP303-20250509	BN037018.D	14 May 2025 18:36		RC/JU	Ok,M
22	Q2013-02	BP-TT192D2-GW-2025	BN037019.D	14 May 2025 19:12		RC/JU	Ok
23	Q2013-03	BP-TT192D1-GW-2025	BN037020.D	14 May 2025 19:48		RC/JU	Ok
24	PB167952BS	PB167952BS	BN037021.D	14 May 2025 20:24		RC/JU	Ok,M
25	PB167952BSD	PB167952BSD	BN037022.D	14 May 2025 21:00		RC/JU	Ok,M
26	SSTDCCC0.4	SSTDCCC0.4EC	BN037023.D	14 May 2025 21:36		RC/JU	Ok

M : Manual Integration



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 4/25/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 04/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:25
Out Date: 04/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135545

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1869-01	MH-F	1	1.14	10.43	11.57	10.47	89.5	
Q1869-02	MH-F-EPH	2	1.18	9.96	11.14	10.12	89.8	
Q1869-03	MH-F-VOC	3	1.16	10.28	11.44	10.4	89.9	
Q1871-01	MH-A	4	1.14	9.59	10.73	9.86	90.9	
Q1871-02	MH-A-EPH	5	1.18	9.97	11.15	10.25	91.0	
Q1871-03	MH-A-VOC	6	1.15	10.22	11.37	10.47	91.2	
Q1871-05	MH-B	7	1.18	10.31	11.49	10.58	91.2	
Q1871-06	MH-B-EPH	8	1.16	9.63	10.79	10.05	92.3	
Q1871-07	MH-B-VOC	9	1.18	10.35	11.53	10.75	92.5	
Q1872-01	HW0425-PT-AN-SOIL	31	1.00	1.00	2.00	2.00	100.0	
Q1872-02	HW0425-PT-CORR-SOIL	32	1.00	1.00	2.00	2.00	100.0	
Q1872-03	HW0425-PT-CN-SOIL	33	1.00	1.00	2.00	2.00	100.0	
Q1872-04	HW0425-PT-CN-SOIL	34	1.00	1.00	2.00	2.00	100.0	
Q1872-05	HW0425-PT-FP-SOIL	35	1.00	1.00	2.00	2.00	100.0	
Q1872-06	HW0425-PT-CR6-SOIL	36	1.00	1.00	2.00	2.00	100.0	
Q1872-07	HW0425-PT-NUT-SOIL	37	1.00	1.00	2.00	2.00	100.0	
Q1872-08	HW0425-PT-NUT-SOIL	38	1.00	1.00	2.00	2.00	100.0	
Q1872-09	HW0425-PT-OGP-SOIL	39	1.00	1.00	2.00	2.00	100.0	
Q1872-10	HW0425-PT-MET-SOIL	40	1.00	1.00	2.00	2.00	100.0	
Q1872-11	HW0425-PT-BNA-SOIL	41	1.00	1.00	2.00	2.00	100.0	
Q1872-12	HW0425-PT-TRIAZINE-SOIL	42	1.00	1.00	2.00	2.00	100.0	
Q1872-13	HW0425-PT-PAH-SOIL	43	1.00	1.00	2.00	2.00	100.0	
Q1872-14	HW0425-PT-DIES-SOIL	44	1.00	1.00	2.00	2.00	100.0	
Q1872-15	HW0425-PT-GAS-SOIL	45	1.00	1.00	2.00	2.00	100.0	
Q1872-16	HW0425-PT-NJEPH-SOIL	46	1.00	1.00	2.00	2.00	100.0	
Q1872-17	HW0425-PT-HERB-SOIL	47	1.00	1.00	2.00	2.00	100.0	
Q1872-18	HW0425-PT-PCB-SOIL	48	1.00	1.00	2.00	2.00	100.0	
Q1872-19	HW0425-PT-PCBO-SOIL	49	1.00	1.00	2.00	2.00	100.0	



PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 4/25/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:00
In Date: 04/24/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:25
Out Date: 04/25/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC:LB135545

Lab ID	Client SampleID	Dish #	Dish Wt (g) (A)	Sample Wt (g)	Dish + Sample Wt (g) (B)	Dish+Dry Sample Wt (g) (C)	% Solid	Comments
Q1872-20	HW0425-PT-PEST-SOIL	50	1.00	1.00	2.00	2.00	100.0	
Q1872-21	HW0425-PT-CHLR-SOIL	51	1.00	1.00	2.00	2.00	100.0	
Q1872-22	HW0425-PT-TXP-SOIL	52	1.00	1.00	2.00	2.00	100.0	
Q1872-23	HW0425-PT-VOA-SOIL	53	1.00	1.00	2.00	2.00	100.0	
Q1872-25	HW0425-PT-NO2-SOIL	54	1.00	1.00	2.00	2.00	100.0	
Q1873-01	CAM-40619	10	1.14	10.70	11.84	4.97	35.8	
Q1873-02	CAM-40620	11	1.15	10.42	11.57	6.19	48.4	
Q1873-03	CAM-40619-20	12	1.18	10.21	11.39	4.77	35.2	
Q1874-01	VNJ-236	13	1.19	10.45	11.64	10.89	92.8	
Q1874-03	RT1491	14	1.19	11.16	12.35	11.43	91.8	
Q1874-05	HT3727	15	1.16	10.63	11.79	11.06	93.1	
Q1875-01	AUD-25-0053	16	1.14	10.75	11.89	11.19	93.5	
Q1875-03	AUD-25-0054	17	1.14	10.02	11.16	10.52	93.6	
Q1875-04	AUD-25-0024	18	1.14	10.03	11.17	10.77	96.0	
Q1876-01	AUD-25-0058	19	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-02	AUD-25-0059	20	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-03	AUD-25-0060	21	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-04	AUD-25-0061	22	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-05	AUD-25-0062	23	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-06	AUD-25-0063	24	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-07	AUD-25-0064	25	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-08	AUD-25-0065	26	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1876-09	AUD-25-0066	27	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1877-01	AU-6-042425	55	1.14	10.25	11.39	10.72	93.5	
Q1877-02	AU-6-042425	28	1.14	10.21	11.35	10.54	92.1	
Q1878-01	TR-4-042425	29	1.14	10.17	11.31	11.2	98.9	
Q1878-02	TR-4-042425-E2	30	1.19	10.28	11.47	10.92	94.6	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

UR 135545

WorkList Name : %1-042425

WorkList ID : 189122

Department : Wet-Chemistry

Date : 04-24-2025 08:52:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1869-01	MH-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1869-02	MH-F-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1869-03	MH-F-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-01	MH-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-02	MH-A-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-03	MH-A-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-05	MH-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-06	MH-B-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1871-07	MH-B-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1872-01	HW0425-PT-AN-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-02	HW0425-PT-CORR-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-03	HW0425-PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-04	HW0425-PT-CN-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-05	HW0425-PT-FP-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-06	HW0425-PT-CR6-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-07	HW0425-PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-08	HW0425-PT-NUT-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-09	HW0425-PT-OGR-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-10	HW0425-PT-MET-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-11	HW0425-PT-BNA-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-12	HW0425-PT-TRIAZINE-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO

Date/Time 04/24/25 15430
 Raw Sample Received by: sg wyc,
 Raw Sample Relinquished by: DAW

Date/Time 04/24/25 17425
 Raw Sample Received by: DAW
 Raw Sample Relinquished by: DAW

135545

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-042425 WorkList ID : 189122 Department : Wet-Chemistry Date : 04-24-2025 08:52:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-13	HW0425-PT-PAH-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-14	HW0425-PT-DIES-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-15	HW0425-PT-GAS-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-16	HW0425-PT-NJEPH-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-17	HW0425-PT-HERB-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-18	HW0425-PT-PCB-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-19	HW0425-PT-PCBO-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-20	HW0425-PT-PEST-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-21	HW0425-PT-CHLR-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-22	HW0425-PT-TXP-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-23	HW0425-PT-VOA-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1872-25	HW0425-PT-NO2-SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	QA Of	04/21/2025	Chemtech -SO
Q1873-01	CAM-40619	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1873-02	CAM-40620	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1873-03	CAM-40619-20	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1874-01	VNJ-236	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/24/2025	Chemtech -SO
Q1874-03	RT1491	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/24/2025	Chemtech -SO
Q1874-05	HT3727	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	04/24/2025	Chemtech -SO
Q1875-01	AUD-25-0053	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1875-03	AUD-25-0054	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO
Q1875-04	AUD-25-0024	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	04/24/2025	Chemtech -SO

Date/Time 04/24/25 15:30
 Raw Sample Received by: [Signature]
 Raw Sample Relinquished by: [Signature]

WORKLIST(Hardcopy Internal Chain)

27 135545

WorkList Name : %1-042425 WorkList ID : 189122 Department : Wet-Chemistry Date : 04-24-2025 08:52:24

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1876-01	AUD-25-0058	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-02	AUD-25-0059	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-03	AUD-25-0060	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-04	AUD-25-0061	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-05	AUD-25-0062	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-06	AUD-25-0063	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-07	AUD-25-0064	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-08	AUD-25-0065	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1876-09	AUD-25-0066	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	04/24/2025	Chemtech -SO
Q1877-01	AU-6-042425	Solid	Percent Solids	Cool 4 deg C	PSEG05	L41	04/24/2025	Chemtech -SO
Q1877-02	AU-6-042425	Solid	Percent Solids	Cool 4 deg C	PSEG05	L41	04/24/2025	Chemtech -SO
Q1878-01	TR-4-042425	Solid	Percent Solids	Cool 4 deg C	PSEG05	L41	04/24/2025	Chemtech -SO
Q1878-02	TR-4-042425-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	L41	04/24/2025	Chemtech -SO

Date/Time 04/24/25 15:30

Raw Sample Received by: 280001

Raw Sample Relinquished by: 280001

Date/Time 04/24/25 17:25
 Raw Sample Received by: 280001
 Raw Sample Relinquished by: 280001

SOP ID:	M3541-ASE Extraction-14		
Clean Up SOP #:	N/A	Extraction Start Date :	05/08/2025
Matrix :	Solid	Extraction Start Time :	10:03
Welgh By:	EH	Extraction By:	RJ
Balance check:	RJ	Filter By:	RJ
Balance ID:	EX-SC-2	pH Meter ID:	N/A
pH Strip Lot#:	N/A	Hood ID:	3,7
		Concentration By:	EH
		Supervisor By :	RUPESH

Extraction Method:
☐ Seperatory Funnel
 ☐ Continious Liquid/Liquid
 ☐ Sonication
 ☐ Waste Dilution
 ☒ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6739
Surrogate	1.0ML	0.4 PPM	SP6755
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
MeCl2/Acetone/1:1	N/A	EP2600
Baked Na2SO4	N/A	EP2607
Sand	N/A	E2865
Methylene Chloride	N/A	E3930
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.

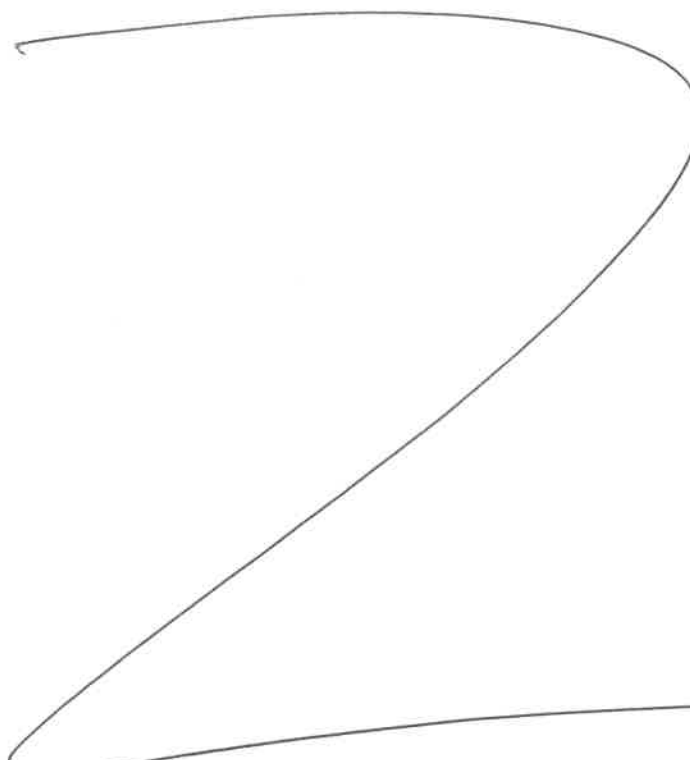
KD Bath ID:	N/A	Envap ID:	NEVAP-02
KD Bath Temperature:	N/A	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/8/25	RS (Ext Lab)	RC/SVOC
13:15	Preparation Group	Analysis Group

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 05/08/2025

Sample ID	Client Sample ID	Test	g/mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167915BL	SBLK915	SVOC-SIMGrou p1	30.02	N/A	ritesh	Evelyn	1			U2-1
PB167915BS	SLCS915	SVOC-SIMGrou p1	30.01	N/A	ritesh	Evelyn	1			2
Q1872-11	HW0425-PT-BNA-SOIL	SVOCMS Group2	30.21	N/A	ritesh	Evelyn	1	A		3
Q1872-12	HW0425-PT-TRIAZINE-SO IL	SVOCMS Group5	30.37	N/A	ritesh	Evelyn	1	A		4
Q1872-13	HW0425-PT-PAH-SOIL	SVOCMS Group3	30.15	N/A	ritesh	Evelyn	1	A		5
Q1939-02	GB1B	SVOC-SIMGrou p1	30.05	N/A	ritesh	Evelyn	1	E		6
Q1939-04	GB2B	SVOC-SIMGrou p1	30.08	N/A	ritesh	Evelyn	1	E		U3-1
Q1939-04MS	GB2BMS	SVOC-SIMGrou p1	30.02	N/A	ritesh	Evelyn	1	E		2
Q1939-04MS D	GB2BMSD	SVOC-SIMGrou p1	30.04	N/A	ritesh	Evelyn	1	E		3
Q1939-06	GB3B	SVOC-SIMGrou p1	30.07	N/A	ritesh	Evelyn	1	E		4



RS
5/8

167915
10/25/25

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1939 WorkList ID : 189390 Department : Extraction Date : 05-08-2025 09:56:09

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1872-11	HW0425-PT-BNA-SOIL	Solid	SVOCMS Group2	Cool 4 deg C	ALLI03	QA Of	04/21/2025	8270-Modified
Q1872-12	HW0425-PT-TRIAZINE-SOIL	Solid	SVOCMS Group5	Cool 4 deg C	ALLI03	QA Of	04/21/2025	8270-Modified
Q1872-13	HW0425-PT-PAH-SOIL	Solid	SVOCMS Group3	Cool 4 deg C	ALLI03	QA Of	04/21/2025	8270-Modified
Q1939-02	GB1B	Solid	SVOC-SIMGroup1	Cool 4 deg C	GENV01	L51	05/01/2025	8270-Modified
Q1939-04	GB2B	Solid	SVOC-SIMGroup1	Cool 4 deg C	GENV01	L51	05/01/2025	8270-Modified
Q1939-06	GB3B	Solid	SVOC-SIMGroup1	Cool 4 deg C	GENV01	L51	05/01/2025	8270-Modified

Date/Time 5/8/25 10:00
Raw Sample Received by: RJ (Ext-06)
Raw Sample Relinquished by: [Signature]

Date/Time 5/8/25 10:20
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: RJ (Ext-06)

Prep Standard - Chemical Standard Summary

Order ID : Q1872

Test : SVOCMS Group3

Prepbatch ID : PB167915,

Sequence ID/Qc Batch ID: BN050825,bn051425,

Standard ID :

EP2600,EP2607,SP6682,SP6730,SP6731,SP6732,SP6733,SP6734,SP6735,SP6736,SP6738,SP6739,SP6740,SP6755,SP6757,SP6767,SP6768,SP6774,SP6775,SP6776,SP6777,SP6778,SP6779,SP6780,SP6781,

Chemical ID :

1ul/100ul

sample,E2865,E3551,E3828,E3873,E3874,E3902,E3904,E3917,E3926,E3930,S10104,S11495,S11496,S11650,S11785,S11788,S11832,S12114,S12115,S12195,S12216,S12270,S12271,S12328,S12478,S12486,S12525,S12533,S12577,S12651,S12791,S12792,S12966,S12974,

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>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2600	04/07/2025	10/03/2025	Rajesh Parikh	None	None	Riteshkumar Patel
04/07/2025								

FROM 8000.00000ml of E3904 + 8000.00000ml of E3917 = Final Quantity: 16000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2607	04/25/2025	07/01/2025	RUPESEKUMA R SHAH	Extraction_SC ALE_2 (EX-SC-2)	None	Riteshkumar Patel
04/25/2025								

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

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	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

<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	Shreena 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	Shreena 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	Shreena 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	Shreena 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	Shreena 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	Shreena 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	Shreena 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	Shreena 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	Shreena 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	SP6755	03/20/2025	07/24/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								04/01/2025

FROM 0.00400ml of S12195 + 0.00800ml of S12216 + 0.02000ml of S11832 + 99.96800ml of E3902 = Final Quantity: 100.000 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>
3895	50 ug/ml DFTPP 8270E	SP6757	03/31/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay
								04/01/2025

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

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6767	04/10/2025	07/24/2025	Jagrut Upadhyay	None	None	Sohil Jodhani
								04/16/2025

FROM SOURCE
0.00630ml of S12195 + 0.01280ml of S12216 + 0.03200ml of S11788 + 0.03200ml of S11832 + 0.06400ml of S12486 +
0.06400ml of S12533 + 0.06400ml of S12974 + 19.72490ml of E3926 = Final Quantity: 20.000 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND	SP6768	04/10/2025	07/24/2025	Jagrut Upadhyay	None	None	Sohil Jodhani
SOURCE 0.87500ml of E3926 + 0.01000ml of SP6740 + 0.12500ml of SP6767 = Final Quantity: 1.010 ml								
FROM								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6774	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025
<u>FROM</u> 0.03350ml of S10104 + 0.05000ml of S11496 + 0.12500ml of S11832 + 0.12500ml of S12115 + 0.25000ml of S12271 + 0.25000ml of S12792 + 24.16650ml of E3926 = Final Quantity: 25.000 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6775	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.50000ml of E3926 + 0.01000ml of SP6740 + 0.50000ml of SP6774 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6776	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.68000ml of E3926 + 0.01000ml of SP6740 + 0.32000ml of SP6774 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6777	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.84000ml of E3926 + 0.01000ml of SP6740 + 0.16000ml of SP6774 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6778	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.92000ml of E3926 + 0.01000ml of SP6740 + 0.08000ml of SP6774 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6779	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.96000ml of E3926 + 0.01000ml of SP6740 + 0.04000ml of SP6774 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6780	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 0.50000ml of E3926 + 0.01000ml of SP6740 + 0.50000ml of SP6779 = Final Quantity: 1.010 ml



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6781	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025
<u>FROM</u> 0.75000ml of E3926 + 0.01000ml of SP6740 + 0.25000ml of SP6779 = Final Quantity: 1.010 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3382-05 / Sand, Purified (cs/4x2.5kg)	0000243821	06/30/2025	04/30/2020 / RAJESH	04/28/2020 / RAJESH	E2865

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 #
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-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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/18/2025	03/18/2025 / RUPESH	02/12/2025 / RUPESH	E3902

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	01/07/2026	03/13/2025 /	12/27/2024 / RUPESH	E3904

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	10/03/2025	04/03/2025 / Rajesh	03/31/2025 / Rajesh	E3917

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	10/08/2025	04/08/2025 / Rajesh	02/07/2025 / Rajesh	E3926

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	02/20/2026	05/02/2025 / RUPESH	03/09/2025 / RUPESH	E3930

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	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 #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	10/28/2025	04/28/2025 / Jagrut	08/11/2023 / Yogesh	S11496

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	07/29/2025	01/29/2025 / anahy	11/09/2023 / Yogesh	S11650

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	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	09/10/2025	03/10/2025 / anahy	11/21/2023 / Rahul	S11788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	07/24/2025	01/24/2025 / anahy	11/21/2023 / rahul	S11832

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	05/12/2025	11/12/2024 / Jagrut	03/08/2024 / Rahul	S12114

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	10/28/2025	04/28/2025 / Jagrut	03/08/2024 / Rahul	S12115

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	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 #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	10/28/2025	04/28/2025 / Jagrut	05/24/2024 / Rahul	S12271

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12478

[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	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12486

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	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	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12533

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0212266	08/07/2025	02/07/2025 / anahy	09/20/2024 / anahy	S12651

CHEMICAL RECEIPT LOG BOOK

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 #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	06/21/2025	04/28/2025 / Jagrut	05/24/2024 / Rahul	S12792

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	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 #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12974



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
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(707)545-7901 Fax

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04					

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

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

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

Certified By: _____

Erica Castiglione
Chemist

Sand
Purified
Washed and Ignited



Material No.: 3382-05
Batch No.: 0000243821
Manufactured Date: 2018/04/09
Retest Date: 2025/04/07
Revision No: 1

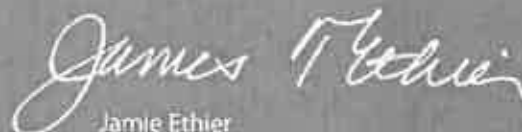
Certificate of Analysis

Test	Specification	Result
Substances Soluble in HCl	$\leq 0.16\%$	0.01

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

E 2865


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



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™



Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

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

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3902

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

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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 03/31/25

E3917

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.: 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 3926

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor



Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid (μ eq/g)	≤ 0.3	<0.1
Chloride (Cl)	≤ 10 ppm	<5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	<0.01%

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3930

J. Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700



5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

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

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

511494 } Y.P.
↓
511498 } 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

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



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
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by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

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

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

511494 } Y.P.
↓
511498 } 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

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



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

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

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

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

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

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

Ship: Ambient

511649
↓
511658 } Y.P.
11/13/23

CERTIFIED VALUES

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

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

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023

Balance: B251644995

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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:

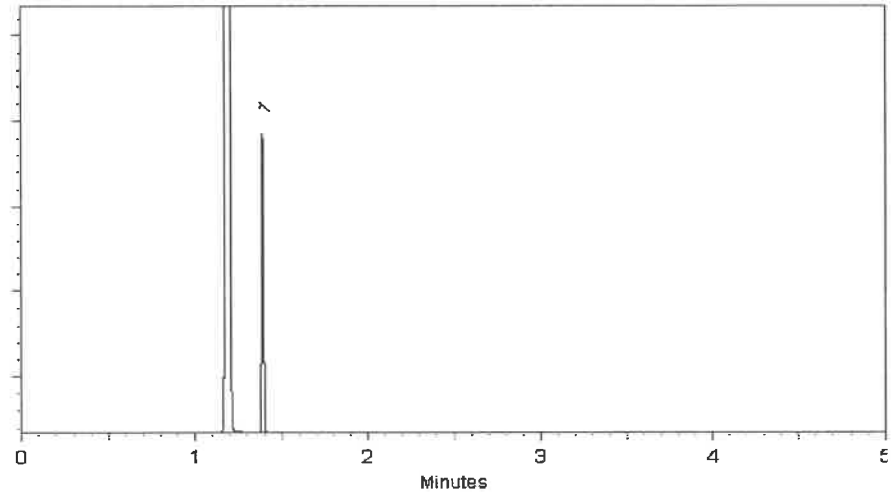
FID

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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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 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:

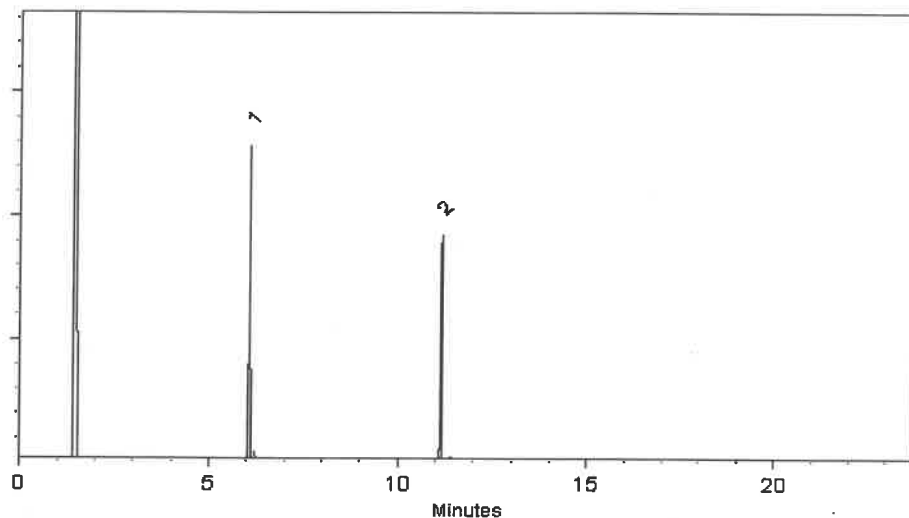
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

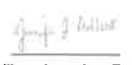


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


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.
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- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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

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



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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Melissa Workoff
Chemist

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Concentration (correct for purity) and uncertainty (95% confidence) values
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Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓ } 03/18/24
512206 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

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

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

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

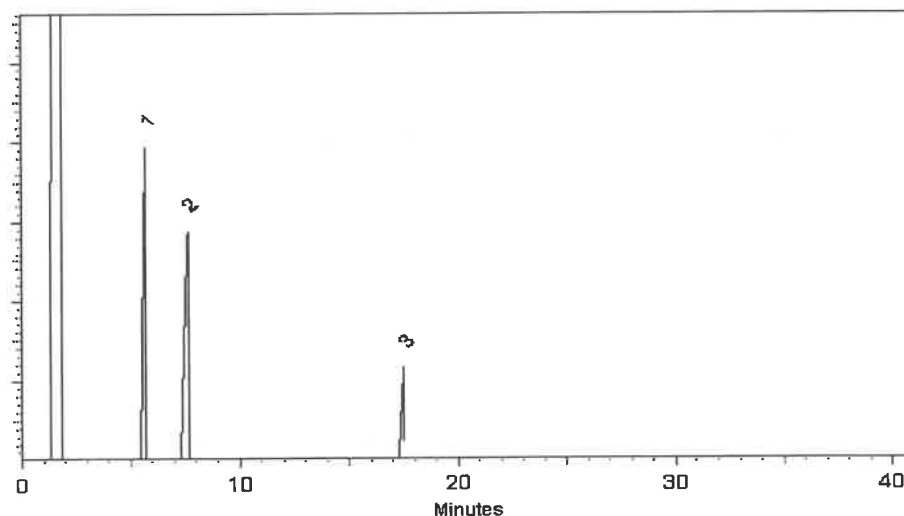
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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

Penelope S. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

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



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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 31086 **Lot No.:** A0206381
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : December 31, 2029 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

S12207 } RC/
↓
S12221 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

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

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

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

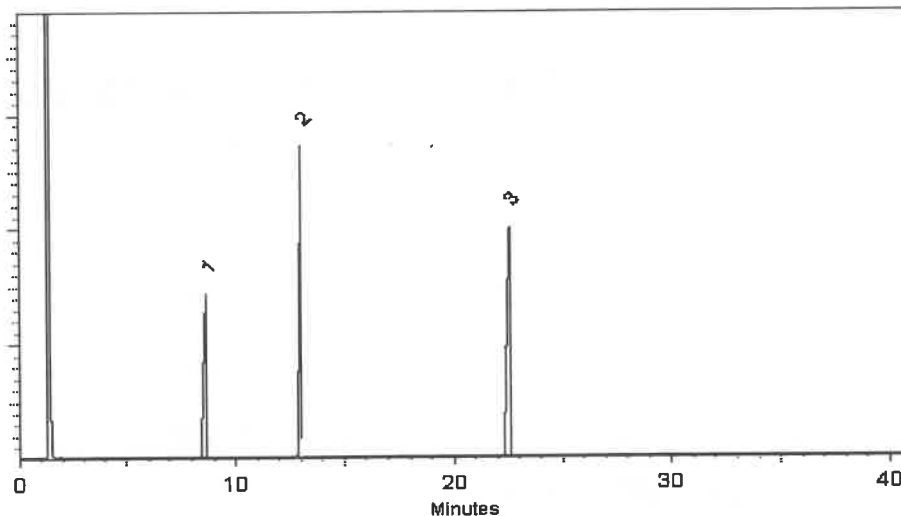
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



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

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

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

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

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

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

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Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
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.
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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

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Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value



Certified By: _____

Kerry Kane
Chemist

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Concentration (correct for purity) and uncertainty (95% confidence) values
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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:

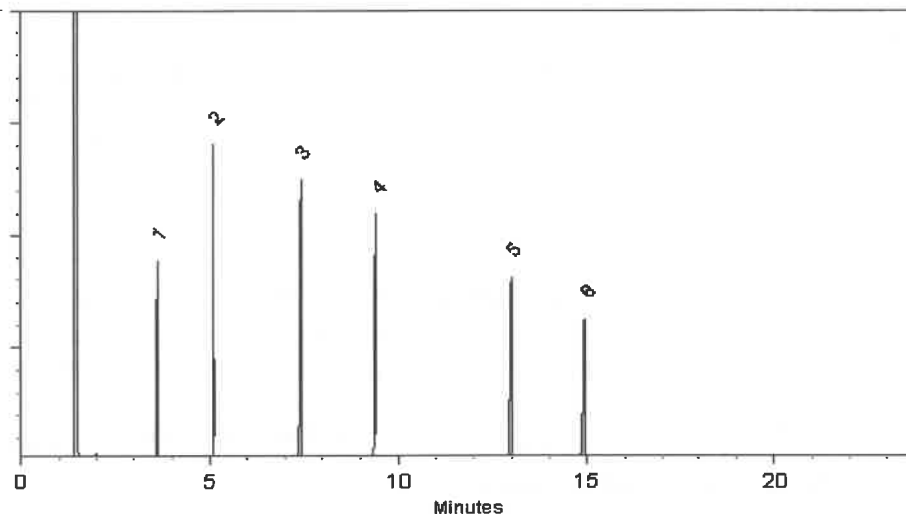
FID

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



110 Benner Circle
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Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

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

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

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

S12449 } RC/
↓
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024

Balance: 1128353505

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

General Certified Reference Material Notes

Expiration Notes:

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

Purity Notes:

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

Certified Uncertainty Value Notes:

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

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

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

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

Manufacturing Notes:

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

Handling Notes:

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



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Tel: 1-814-353-1300
Fax: 1-814-353-1309

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Certificate of Analysis

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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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



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

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

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

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

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

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

CERTIFIED VALUES

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

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

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

S12577 } RC
↓
S12579 } 8/2/24

Quality Confirmation Test

Column:

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

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

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

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

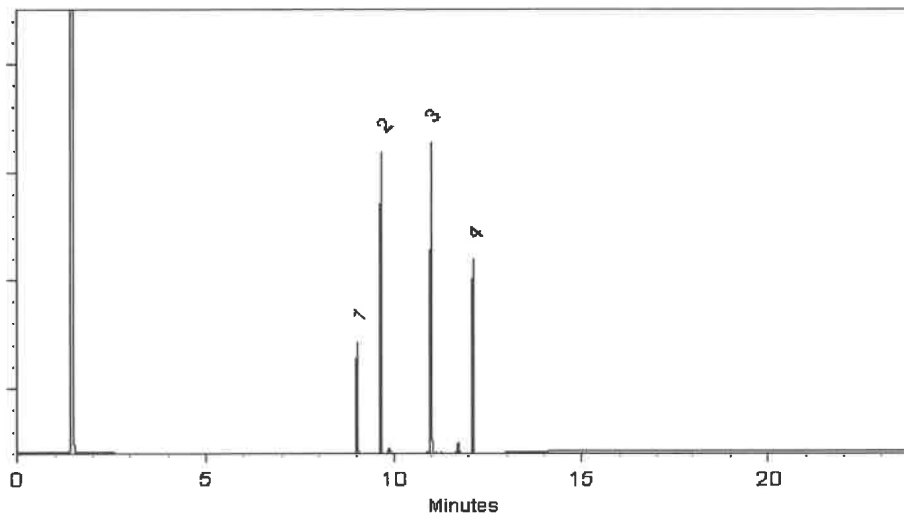
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

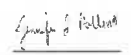


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024

Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
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chromatographic plus



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

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

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

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

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

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

S12645
↓
S12674 } AC
10/1/24



5580 Skylane Blvd
Santa Rosa, CA 95403

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

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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

~~512280~~ } RCL
↓
~~512284~~ } 05/24/24

New Numbers Generated.

512790 } RCL
↓
512794 } 11/12/24

*Not a certified value

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

Certified By: _____

Shane Overcash
Chemist

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



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

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 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
12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

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

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

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



SHIPPING DOCUMENTS



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Golden, CO 80403

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www.phenova.com

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www.phenova.com/home/termsforsale

Packing List

Date	Order #
04/21/2025	333293



Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
PO2-1668	Net 30	ZCM-100	1500470	FedEx Collect 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-MET-SOIL	SOIL/HW Trace Metals	HW0425	7100-04
1	1	0	PT-CR6-SOIL	SOIL/HW Hexavalent Chromium	HW0425	7100-05B
1	1	0	PT-CN-SOIL	SOIL/HW Cyanide	HW0425	7100-06
1	1	0	PT-CORR-SOIL	SOIL/HW Corrosivity/pH	HW0425	7100-11
1	1	0	PT-FP-SOIL	SOIL/HW Flash Point	HW0425	7100-10
1	1	0	PT-AN-SOIL	SOIL/HW Anions	HW0425	7100-08
1	1	0	PT-NUT-SOIL	SOIL/HW Nutrients	HW0425	7100-09B
1	1	0	PT-SOL-SOIL	SOIL/HW Solids	HW0425	7100-31
1	1	0	PT-NO2-SOIL	SOIL/HW Nitrite as N	HW0425	7100-71
1	1	0	PT-GAS-SOIL	SOIL/HW Gasoline	HW0425	7100-96
1	1	0	PT-OGR-SOIL	SOIL/HW Oil and Grease	HW0425	7100-94
1	1	0	PT-VOA-SOIL	SOIL/HW Volatiles	HW0425	7100-12
1	1	0	PT-BNA-SOIL	SOIL/HW BNAs	HW0425	7100-13
1	1	0	PT-PEST-SOIL	SOIL/HW Pesticides	HW0425	7100-14
1	1	0	PT-CHLR-SOIL	SOIL/HW Chlordane	HW0425	7100-15
1	1	0	PT-TXP-SOIL	SOIL/HW Toxaphene	HW0425	7100-16
1	1	0	PT-PCB-SOIL	SOIL/HW PCBs	HW0425	7100-17
1	1	0	PT-PCBO-SOIL	SOIL/HW PCBs in Oil	HW0425	7100-88
1	1	0	PT-HERB-SOIL	SOIL/HW Herbicides	HW0425	7100-18
1	1	0	PT-PAH-SOIL	SOIL/HW PAHs	HW0425	7100-22
1	1	0	PT-TRIAZINE-SOIL	SOIL/HW Triazine Pesticides	HW0425	7100-106
1	1	0	PT-NJEPH-SOIL	NJ EPH in SOIL	HW0425	7100-105



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Fax: +1-303-940-0043
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Ship To

Alliance Tech Group - Newark
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ

4/28/2025 9:40

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
CPR	Net 30	ZCM-100	1500470	FedEx Next Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-DIES-SOIL	SOIL/HW Diesel in Soil	HW0425	7100-100

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