

**DATA PACKAGE
SEMI-VOLATILE ORGANICS**

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

AECOM TECHNICAL SERVICES, INC.

13640 Briarwick Drive

Austin, TX - 78729

Phone No: 512-454-4797

ORDER ID : Q2345

ATTENTION : Eleanor Vivadou



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q2345

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

Client : AECOM Technical Services, Inc.

Lab Sample Number

Q2345-01
Q2345-02
Q2345-03
Q2345-04
Q2345-05
Q2345-06
Q2345-07
Q2345-08
Q2345-09
Q2345-10
Q2345-11
Q2345-12
Q2345-13
Q2345-14
Q2345-15
Q2345-16
Q2345-17

Client Sample Number

EB02-20250616
TB03-20250616
BPOW6-1-20250616
BPOW6-2-20250616
DUP05-20250616
BPOW6-3-20250616
BPOW6-5-20250616
BPOW6-5-20250616MS
BPOW6-5-20250616MSD
BPOW6-6-20250616
BPOW6-10-20250616
BPOW6-9-20250616
TT189D2-20250617
TT150S1-20250617
RW8-MW01D1-20250617
TT192D2-20250617
BPOW6-4-20250616

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 :

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 8:47 am, Jul 01, 2025

Date: 6/30/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

AECOM Technical Services, Inc.

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

Project # N/A

Order ID # Q2345

Test Name: SVOC-SIMGroup1

A. Number of Samples and Date of Receipt:

17 Water samples were received on 06/17/2025.

B. Parameters

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

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for,
EB02-20250616 [2-Fluorobiphenyl - 111%],
TT189D2-20250617 [2-Fluorobiphenyl - 150%],
TT189D2-20250617DL [2-Fluorobiphenyl - 146%],
TT150S1-20250617 [2-Fluorobiphenyl - 137%],
RW8-MW01D1-20250617 [2-Fluorobiphenyl - 170%] and
TT192D2-20250617 [2-Fluorobiphenyl - 119%]. Failed surrogate is not associated with DOD, therefor no further corrective action was taken.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The RPD met criteria.

The Blank Spike met requirements for all samples.

The Blank Spike Duplicate met requirements for all samples.

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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

Sample TT189D2-20250617 was diluted due to high concentration.

E. Additional Comments:

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

The not QT review data is reported in the Miscellaneous.

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

F. Manual Integration Comments:

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

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

Signature_____

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 8:48 am, Jul 01, 2025

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: Q2345

MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
	The Initial Calibration met the requirements. The Continuous Calibration met the requirements.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:			✓
7.	Surrogate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria except for, EB02-20250616 [2-Fluorobiphenyl - 111%], TT189D2-20250617 [2-Fluorobiphenyl - 150%], TT189D2-20250617DL [2-Fluorobiphenyl - 146%], TT150S1-20250617 [2-Fluorobiphenyl - 137%], RW8-MW01D1-20250617 [2-Fluorobiphenyl - 170%] and TT192D2-20250617 [2-Fluorobiphenyl - 119%]. Failed surrogate is not associated with DOD , therefor no further corrective action was taken.			

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

		NA	NO	YES
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike met requirements for all samples. The Blank Spike Duplicate met requirements for all samples.			
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 TT189D2-20250617 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 not QT review data is reported in the Miscellaneous.

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

QA REVIEW

APPROVED

By Nimisha Pandya, QA/QC Supervisor at 8:48 am, Jul 01, 2025

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q2345

Completed

For thorough review, the report must have the following:

GENERAL:

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

✓

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

✓

Is the chain of custody signed and complete

✓

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

✓

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

✓

COVER PAGE:

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

✓

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

✓

CHAIN OF CUSTODY:

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

✓

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

✓

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

✓

Were the samples received within hold time

✓

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

✓

ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: MOHAMMAD AHMED

Date: 06/30/2025

LAB CHRONICLE

OrderID:	Q2345	OrderDate:	6/17/2025 12:40:00 PM
Client:	AECOM Technical Services, Inc.	Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258
Contact:	Eleanor Vivadou	Location:	D61,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2345-01	EB02-20250616	Water	SVOC-SIMGroup1	8270-Modified	06/16/25	06/20/25	06/26/25	06/17/25
Q2345-13	TT189D2-20250617	Water	SVOC-SIMGroup1	8270-Modified	06/17/25	06/20/25	06/26/25	06/17/25
Q2345-13DL	TT189D2-20250617DL	Water	SVOC-SIMGroup1	8270-Modified	06/17/25	06/20/25	06/27/25	06/17/25
Q2345-14	TT150S1-20250617	Water	SVOC-SIMGroup1	8270-Modified	06/17/25	06/20/25	06/26/25	06/17/25
Q2345-15	RW8-MW01D1-20250617	Water	SVOC-SIMGroup1	8270-Modified	06/17/25	06/20/25	06/26/25	06/17/25
Q2345-16	TT192D2-20250617	Water	SVOC-SIMGroup1	8270-Modified	06/17/25	06/20/25	06/26/25	06/17/25

Hit Summary Sheet SW-846

SDG No.: Q2345

Client: AECOM Technical Services, Inc.

Sample ID	Client ID	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	TT189D2-20250617							
Q2345-13	TT189D2-20250617	WATER	1,4-Dioxane	5.300	E	0.07	0.2	0.2 ug/L
			Total Svoc :	5.30				
			Total Concentration:	5.30				
Client ID :	TT189D2-20250617DL							
Q2345-13DL	TT189D2-20250617DL	WATER	1,4-Dioxane	5.600	D	0.13	0.4	0.4 ug/L
			Total Svoc :	5.60				
			Total Concentration:	5.60				
Client ID :	TT150S1-20250617							
Q2345-14	TT150S1-20250617	WATER	1,4-Dioxane	0.240		0.07	0.2	0.2 ug/L
			Total Svoc :	0.24				
			Total Concentration:	0.24				
Client ID :	RW8-MW01D1-20250617							
Q2345-15	RW8-MW01D1-2025061	WATER	1,4-Dioxane	0.230		0.07	0.2	0.2 ug/L
			Total Svoc :	0.23				
			Total Concentration:	0.23				
Client ID :	TT192D2-20250617							
Q2345-16	TT192D2-20250617	WATER	1,4-Dioxane	0.920		0.07	0.2	0.2 ug/L
			Total Svoc :	0.92				
			Total Concentration:	0.92				



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q2345

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB168563BL	PB168563BL	2-Methylnaphthalene-d10	0.4	0.32	81		30	150
		Fluoranthene-d10	0.4	0.37	93		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.33	81		53	106
		Terphenyl-d14	0.4	0.37	93		58	132
PB168563BS	PB168563BS	2-Methylnaphthalene-d10	0.4	0.49	123		30	150
		Fluoranthene-d10	0.4	0.35	86		30	150
		Nitrobenzene-d5	0.4	0.37	92		55	111
		2-Fluorobiphenyl	0.4	0.39	97		53	106
		Terphenyl-d14	0.4	0.39	98		58	132
PB168563BSD	PB168563BSD	2-Methylnaphthalene-d10	0.4	0.39	97		30	150
		Fluoranthene-d10	0.4	0.35	86		30	150
		Nitrobenzene-d5	0.4	0.39	97		55	111
		2-Fluorobiphenyl	0.4	0.40	99		53	106
		Terphenyl-d14	0.4	0.38	94		58	132
Q2345-01	EB02-20250616	2-Methylnaphthalene-d10	0.4	0.35	88		30	150
		Fluoranthene-d10	0.4	0.40	99		30	150
		Nitrobenzene-d5	0.4	0.30	75		55	111
		2-Fluorobiphenyl	0.4	0.44	111	*	53	106
		Terphenyl-d14	0.4	0.47	118		58	132
Q2345-13	TT189D2-20250617	2-Methylnaphthalene-d10	0.4	0.33	82		30	150
		Fluoranthene-d10	0.4	0.40	101		30	150
		Nitrobenzene-d5	0.4	0.28	69		55	111
		2-Fluorobiphenyl	0.4	0.60	150	*	53	106
		Terphenyl-d14	0.4	0.44	110		58	132
Q2345-13DL	TT189D2-20250617DL	2-Methylnaphthalene-d10	0.4	0.36	89		30	150
		Fluoranthene-d10	0.4	0.45	112		30	150
		Nitrobenzene-d5	0.4	0.28	69		55	111
		2-Fluorobiphenyl	0.4	0.58	146	*	53	106
		Terphenyl-d14	0.4	0.47	117		58	132
Q2345-14	TT150S1-20250617	2-Methylnaphthalene-d10	0.4	0.33	81		30	150
		Fluoranthene-d10	0.4	0.39	97		30	150
		Nitrobenzene-d5	0.4	0.29	72		55	111
		2-Fluorobiphenyl	0.4	0.55	137	*	53	106
		Terphenyl-d14	0.4	0.49	122		58	132
Q2345-15	RW8-MW01D1-20250617	2-Methylnaphthalene-d10	0.4	0.36	90		30	150
		Fluoranthene-d10	0.4	0.40	100		30	150
		Nitrobenzene-d5	0.4	0.34	84		55	111
		2-Fluorobiphenyl	0.4	0.68	170	*	53	106
		Terphenyl-d14	0.4	0.48	120		58	132
Q2345-16	TT192D2-20250617	2-Methylnaphthalene-d10	0.4	0.32	79		30	150
		Fluoranthene-d10	0.4	0.41	103		30	150
		Nitrobenzene-d5	0.4	0.29	73		55	111
		2-Fluorobiphenyl	0.4	0.48	119	*	53	106
		Terphenyl-d14	0.4	0.41	103		58	132

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2345

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified DataFile: BN037363.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Low	Limits	RPD
								Qual		High	
PB168563BS	1,4-Dioxane	0.4	0.32	ug/L	80				70	130	

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2345

Client: AECOM Technical Services, Inc.

Analytical Method: 8270-Modified DataFile: BN037364.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB168563BSD	1,4-Dioxane	0.4	0.30	ug/L	75	6			70	130		20

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168563BL

Lab Name: CHEMTECH

Contract: AECO15

Lab Code: CHEM Case No.: Q2345

SAS No.: Q2345 SDG NO.: Q2345

Lab File ID: BN037361.D

Lab Sample ID: PB168563BL

Instrument ID: BNA_N

Date Extracted: 06/20/2025

Matrix: (soil/water) Water

Date Analyzed: 06/20/2025

Level: (low/med) LOW

Time Analyzed: 22:16

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168563BS	PB168563BS	BN037363.D	06/20/2025
PB168563BSD	PB168563BSD	BN037364.D	06/21/2025
EB02-20250616	Q2345-01	BN037395.D	06/26/2025
TT189D2-20250617	Q2345-13	BN037396.D	06/26/2025
TT150S1-20250617	Q2345-14	BN037397.D	06/26/2025
RW8-MW01D1-20250617	Q2345-15	BN037398.D	06/26/2025
TT192D2-20250617	Q2345-16	BN037399.D	06/26/2025

COMMENTS: _____



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: Q2345SDG NO.: Q2345Lab File ID: BN037351.DDFTPP Injection Date: 06/20/2025Instrument ID: BNA_NDFTPP Injection Time: 15:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.0 (0.0) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.7) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
365	Greater than 1% of mass 198	4.9
441	Present, but less than mass 443	85.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.4 (20) 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	BN037353.D	06/20/2025	16:51
SSTDICC0.2	SSTDICC0.2	BN037354.D	06/20/2025	17:27
SSTDICCC0.4	SSTDICCC0.4	BN037355.D	06/20/2025	18:03
SSTDICC0.8	SSTDICC0.8	BN037356.D	06/20/2025	18:39
SSTDICC1.6	SSTDICC1.6	BN037357.D	06/20/2025	19:15
SSTDICC3.2	SSTDICC3.2	BN037358.D	06/20/2025	19:51
SSTDICC5.0	SSTDICC5.0	BN037359.D	06/20/2025	20:27
PB168563BL	PB168563BL	BN037361.D	06/20/2025	22:16
PB168563BS	PB168563BS	BN037363.D	06/20/2025	23:28
PB168563BSD	PB168563BSD	BN037364.D	06/21/2025	00:04
SSTDCCC0.4EC	SSTDCCC0.4	BN037365.D	06/21/2025	01:17



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: Q2345SDG NO.: Q2345Lab File ID: BN037385.DDFTPP Injection Date: 06/26/2025Instrument ID: BNA_NDFTPP Injection Time: 10:01

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.3 (0.9) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
365	Greater than 1% of mass 198	4.9
441	Present, but less than mass 443	78.0
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.1 (18.8) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC0.1	SSTDICC0.1	BN037386.D	06/26/2025	10:41
SSTDICC0.2	SSTDICC0.2	BN037387.D	06/26/2025	11:17
SSTDICCC0.4	SSTDICCC0.4	BN037388.D	06/26/2025	11:53
SSTDICC0.8	SSTDICC0.8	BN037389.D	06/26/2025	12:29
SSTDICC1.6	SSTDICC1.6	BN037390.D	06/26/2025	13:05
SSTDICC3.2	SSTDICC3.2	BN037391.D	06/26/2025	13:41
SSTDICC5.0	SSTDICC5.0	BN037392.D	06/26/2025	14:17
EB02-20250616	Q2345-01	BN037395.D	06/26/2025	16:06
TT189D2-20250617	Q2345-13	BN037396.D	06/26/2025	16:42
TT150S1-20250617	Q2345-14	BN037397.D	06/26/2025	17:18
RW8-MW01D1-20250617	Q2345-15	BN037398.D	06/26/2025	17:54
TT192D2-20250617	Q2345-16	BN037399.D	06/26/2025	18:30
SSTDCCC0.4EC	SSTDCCC0.4	BN037401.D	06/26/2025	19:42



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: AECO15Lab Code: CHEMSAS No.: Q2345 SDG NO.: Q2345Lab File ID: BN037416.DDFTPP Injection Date: 06/27/2025Instrument ID: BNA_NDFTPP Injection Time: 09:30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.3 (1.1) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7.1
365	Greater than 1% of mass 198	5.1
441	Present, but less than mass 443	79.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.4 (19.3) 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	BN037417.D	06/27/2025	10:09
TT189D2-20250617DL	Q2345-13DL	BN037419.D	06/27/2025	11:21
SSTDCCC0.4EC	SSTDCCC0.4	BN037423.D	06/27/2025	15:34

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2345 SAS No.: Q2345 SDG NO.: Q2345

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 06/20/2025

Lab File ID: BN037355.D Time Analyzed: 18:03

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	1912	7.568	4157	10.34	2811	14.21
UPPER LIMIT	3824	8.068	8314	10.84	5622	14.713
LOWER LIMIT	956	7.068	2078.5	9.84	1405.5	13.713
EPA SAMPLE NO.						
01 PB168563BL	1968	7.57	4045	10.35	2736	14.22
02 PB168563BS	1960	7.57	4204	10.34	2586	14.21
03 PB168563BSD	1885	7.57	4095	10.34	2623	14.21

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.: Q2345 SAS No.: Q2345 SDG NO.: Q2345

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 06/20/2025

Lab File ID: BN037355.D Time Analyzed: 18:03

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	5776	16.971	4813	21.171	4943	23.354
UPPER LIMIT	11552	17.471	9626	21.671	9886	23.854
LOWER LIMIT	2888	16.471	2406.5	20.671	2471.5	22.854
EPA SAMPLE NO.						
01 PB168563BL	4864	16.98	4288	21.17	3457	23.36
02 PB168563BS	4830	16.97	3875	21.17	2749	23.35
03 PB168563BSD	5035	16.97	4193	21.16	4470	23.35

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.: Q2345 SAS No.: Q2345 SDG NO.: Q2345

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 06/26/2025

Lab File ID: BN037388.D Time Analyzed: 11:53

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	2117	7.568	4565	10.34	3048	14.21
UPPER LIMIT	4234	8.068	9130	10.84	6096	14.713
LOWER LIMIT	1058.5	7.068	2282.5	9.84	1524	13.713
EPA SAMPLE NO.						
01 EB02-20250616	1748	7.57	3967	10.34	2665	14.21
02 TT189D2-20250617	1675	7.57	3636	10.34	2498	14.21
03 TT150S1-20250617	1586	7.57	3605	10.34	2491	14.21
04 RW8-MW01D1-20250617	1638	7.57	3476	10.34	2375	14.21
05 TT192D2-20250617	1647	7.56	3570	10.34	2375	14.21

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.: Q2345 SAS No.: Q2345 SDG NO.: Q2345

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 06/26/2025

Lab File ID: BN037388.D Time Analyzed: 11:53

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	6284	16.959	5612	21.162	5950	23.345
UPPER LIMIT	12568	17.459	11224	21.662	11900	23.845
LOWER LIMIT	3142	16.459	2806	20.662	2975	22.845
EPA SAMPLE NO.						
01 EB02-20250616	5237	16.97	4862	21.16	4950	23.35
02 TT189D2-20250617	5119	16.97	5273	21.16	5674	23.35
03 TT150S1-20250617	4999	16.97	4478	21.16	4562	23.35
04 RW8-MW01D1-20250617	4640	16.97	4434	21.16	4454	23.35
05 TT192D2-20250617	5031	16.97	5333	21.16	5697	23.35

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.: Q2345 SAS No.: Q2345 SDG NO.: Q2345

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/27/2025

Lab File ID: BN037417.D Time Analyzed: 10:09

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	1790	7.56	3949	10.34	2792	14.21
UPPER LIMIT	3580	8.06	7898	10.84	5584	14.713
LOWER LIMIT	895	7.06	1974.5	9.84	1396	13.713
EPA SAMPLE NO.						
01 TT189D2-20250617DL	1828	7.56	3778	10.34	2817	14.21

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.: Q2345 SAS No.: Q2345 SDG NO.: Q2345

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/27/2025

Lab File ID: BN037417.D Time Analyzed: 10:09

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	6217	16.959	6164	21.162	6622	23.345
UPPER LIMIT	12434	17.459	12328	21.662	13244	23.845
LOWER LIMIT	3108.5	16.459	3082	20.662	3311	22.845
EPA SAMPLE NO.						
01 TT189D2-20250617DL	5807	16.97	6103	21.16	6394	23.35

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

* Values outside of QC limits.



SAMPLE DATA

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Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/16/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/17/25
Client Sample ID:	EB02-20250616	SDG No.:	Q2345
Lab Sample ID:	Q2345-01	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037395.D	1	06/20/25 09:32	06/26/25 16:06	PB168563

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.35		30 - 150		88%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		99%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.44	*	53 - 106		111%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		118%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1750		7.568			
1146-65-2	Naphthalene-d8	3970		10.34			
15067-26-2	Acenaphthene-d10	2670		14.213			
1517-22-2	Phenanthrene-d10	5240		16.971			
1719-03-5	Chrysene-d12	4860		21.162			
1520-96-3	Perylene-d12	4950		23.351			

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\BN062625\
Data File : BN037395.D
Acq On : 26 Jun 2025 16:06
Operator : RC/JU
Sample : Q2345-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EB02-20250616

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

Quant Time: Jun 26 16:29:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1748	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	3967	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	2665	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5237	0.400	ng	# 0.01
29) Chrysene-d12	21.162	240	4862	0.400	ng	# 0.00
35) Perylene-d12	23.351	264	4950	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	395	0.117	ng	0.00
5) Phenol-d6	6.759	99	216	0.062	ng	0.01
8) Nitrobenzene-d5	8.717	82	949	0.299	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	2153	0.351	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	560	0.358	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	5087	0.442	ng	0.00
27) Fluoranthene-d10	19.003	212	5956	0.397	ng	0.00
31) Terphenyl-d14	19.611	244	4896	0.472	ng	0.00
Target Compounds						
9) Naphthalene	10.394	128	573	0.056	ng	# 74
10) Hexachlorobutadiene	10.682	225	181	0.045	ng	# 96
12) 2-Methylnaphthalene	12.016	142	396	0.056	ng	# 95
16) Acenaphthylene	13.935	152	288	0.026	ng	# 88
17) Acenaphthene	14.277	154	185	0.026	ng	97
18) Fluorene	15.271	166	329	0.032	ng	98
21) 4-Bromophenyl-phenylether	16.164	248	145	0.039	ng	# 86
22) Hexachlorobenzene	16.276	284	189	0.048	ng	# 87
24) Pentachlorophenol	16.624	266	59	0.028	ng	# 85
25) Phenanthrene	17.009	178	425	0.029	ng	97
26) Anthracene	17.108	178	442m	0.033	ng	
34) Bis(2-ethylhexyl)phtha...	21.090	149	706	0.117	ng	# 96

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

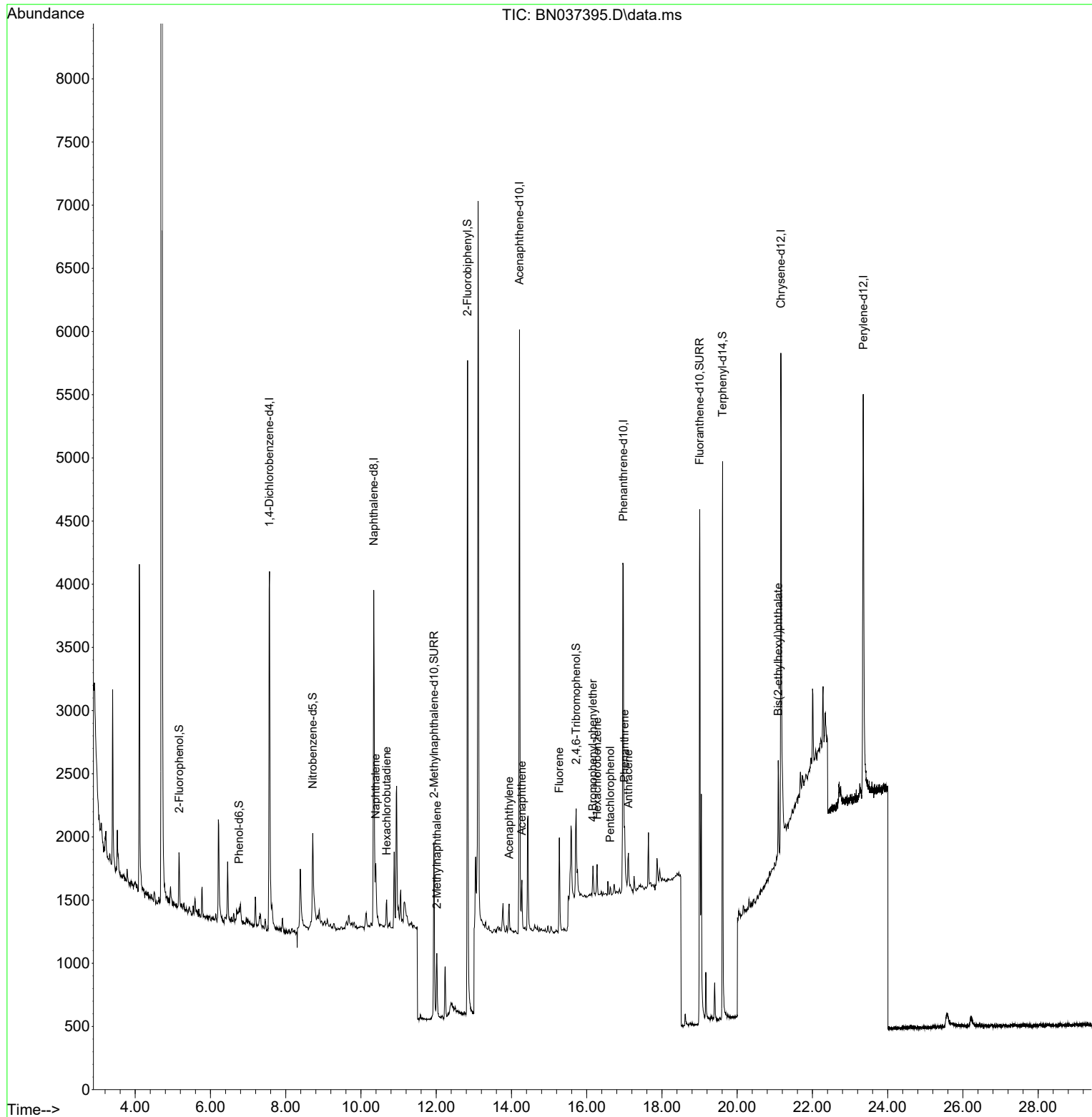
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037395.D
Acq On : 26 Jun 2025 16:06
Operator : RC/JU
Sample : Q2345-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

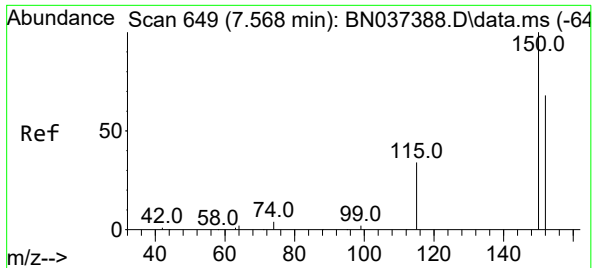
Instrument :
BNA_N
ClientSampleId :
EB02-20250616

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

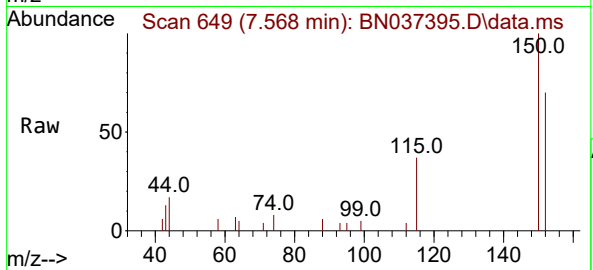
Quant Time: Jun 26 16:29:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

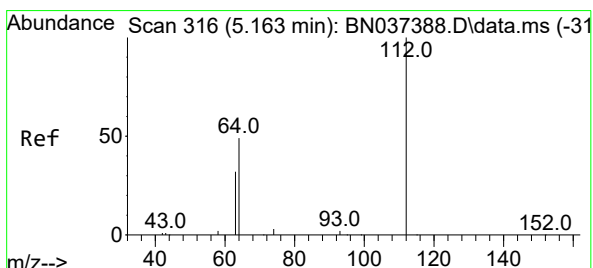
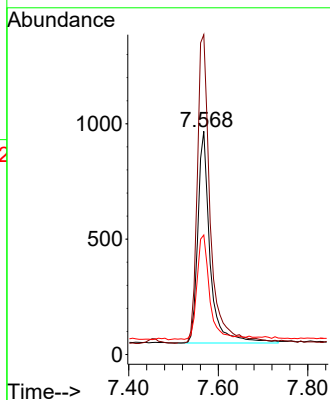
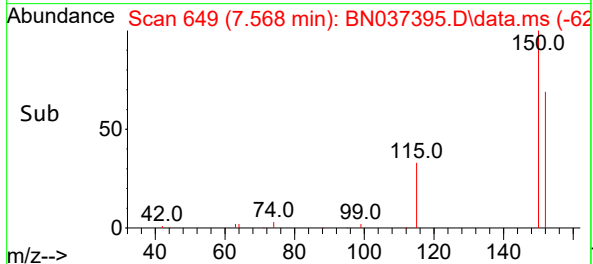
Instrument :
BNA_N
ClientSampleId :
EB02-20250616



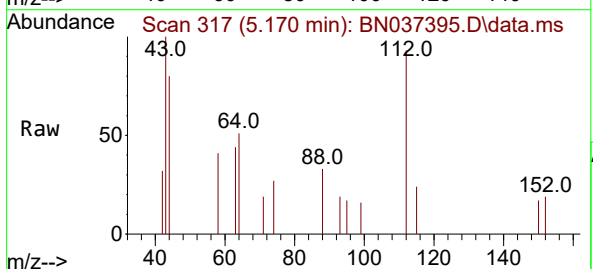
Tgt Ion:152 Resp: 1748
Ion Ratio Lower Upper
152 100
150 143.3 116.2 174.2
115 53.6 42.9 64.3

Manual Integrations
APPROVED

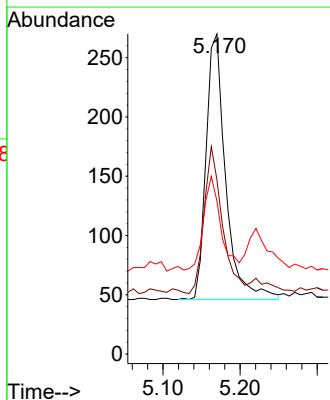
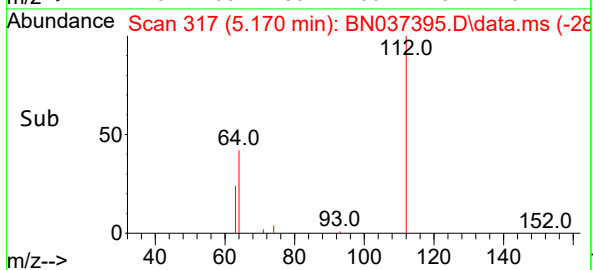
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

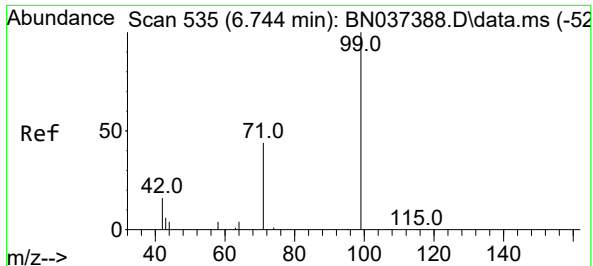


#4
2-Fluorophenol
Concen: 0.117 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06



Tgt Ion:112 Resp: 395
Ion Ratio Lower Upper
112 100
64 51.4 40.3 60.5
63 33.7 26.1 39.1





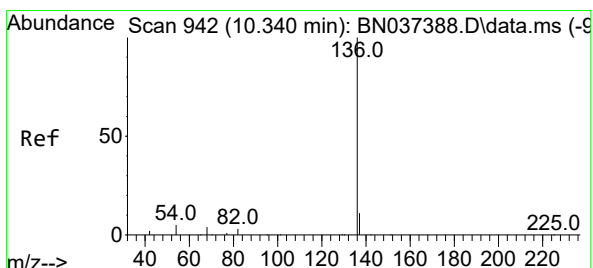
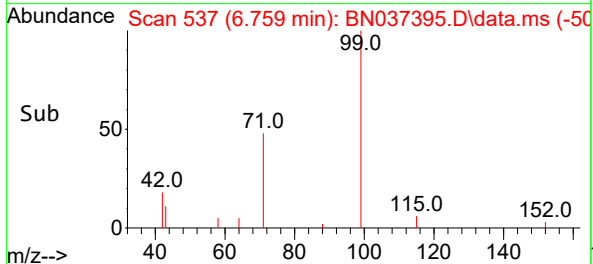
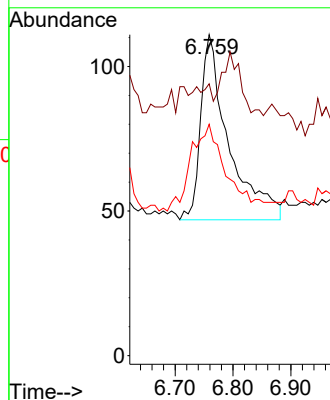
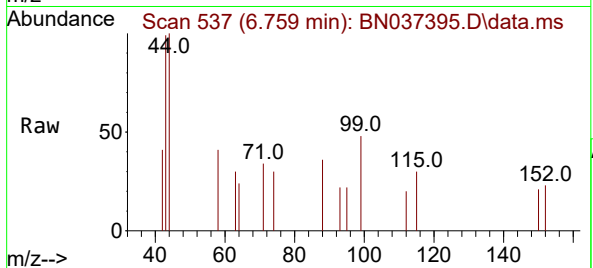
#5
Phenol-d6
Concen: 0.062 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.014 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

Instrument :
BNA_N
ClientSampleId :
EB02-20250616

Tgt Ion: 99 Resp: 210
Ion Ratio Lower Upper
99 100
42 0.0 15.6 23.4
71 60.2 35.8 53.8

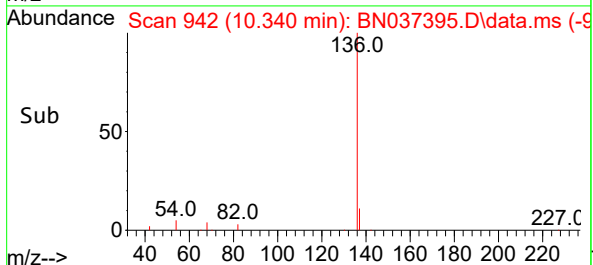
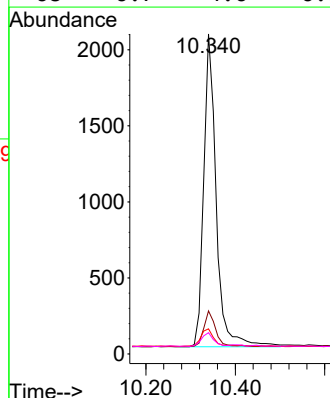
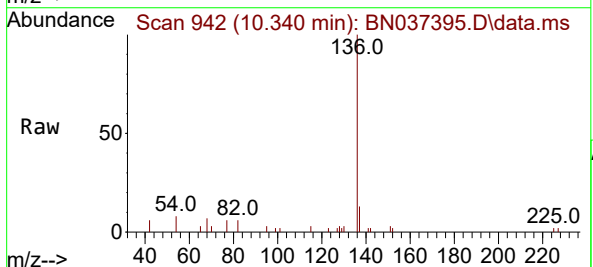
Manual Integrations
APPROVED

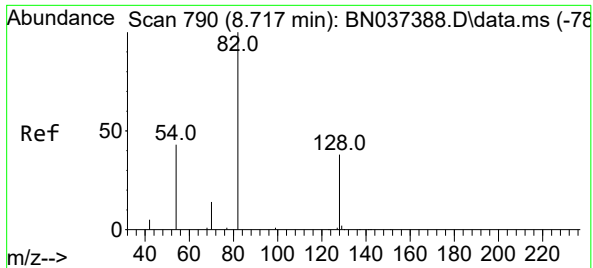
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

Tgt Ion:136 Resp: 3967
Ion Ratio Lower Upper
136 100
137 13.5 10.4 15.6
54 7.8 5.6 8.4
68 6.7 4.6 6.8





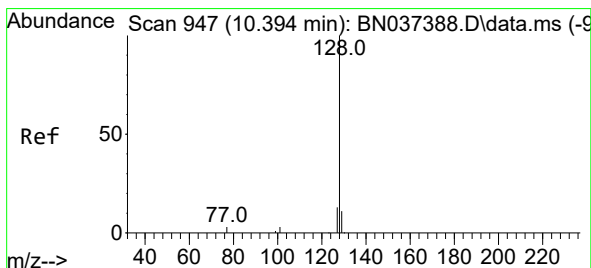
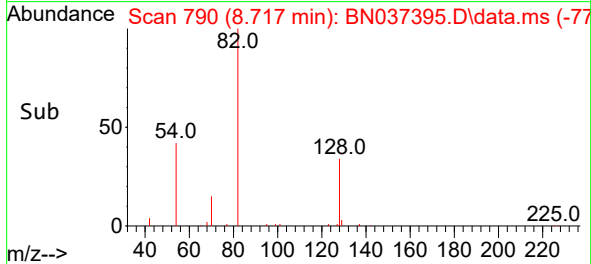
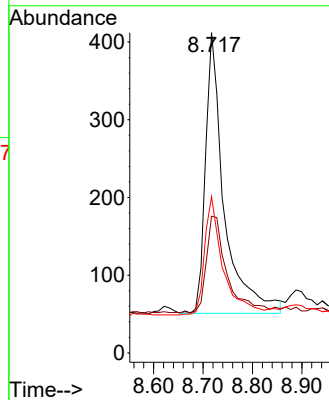
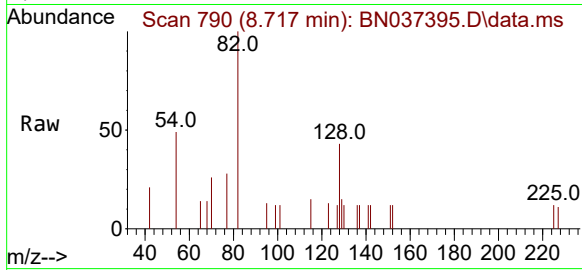
#8
Nitrobenzene-d5
Concen: 0.299 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

Instrument :
BNA_N
ClientSampleId :
EB02-20250616

Tgt Ion: 82 Resp: 949
Ion Ratio Lower Upper
82 100
128 42.7 34.0 51.0
54 48.8 37.7 56.5

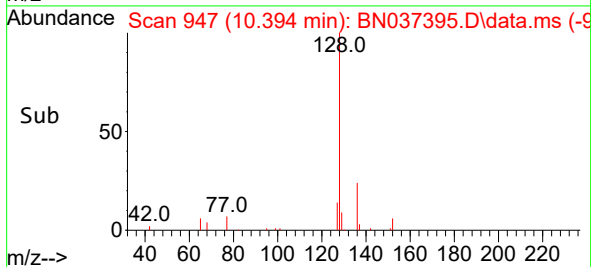
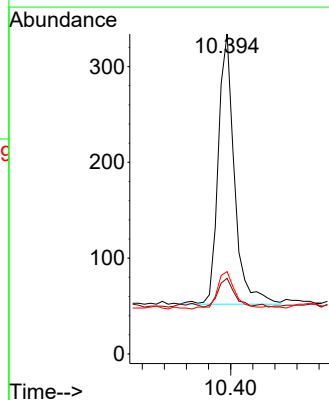
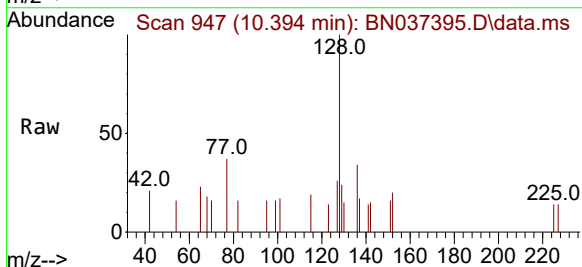
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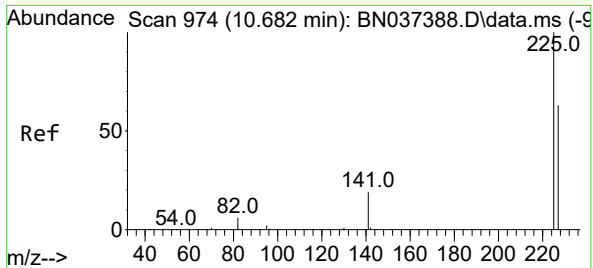
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#9
Naphthalene
Concen: 0.056 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

Tgt Ion:128 Resp: 573
Ion Ratio Lower Upper
128 100
129 23.7 10.4 15.6#
127 25.7 12.2 18.4#





#10

Hexachlorobutadiene

Concen: 0.045 ng

RT: 10.682 min Scan# 91

Delta R.T. -0.000 min

Lab File: BN037395.D

Acq: 26 Jun 2025 16:06

Instrument :

BNA_N

ClientSampleId :

EB02-20250616

Tgt Ion:225 Resp: 18

Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

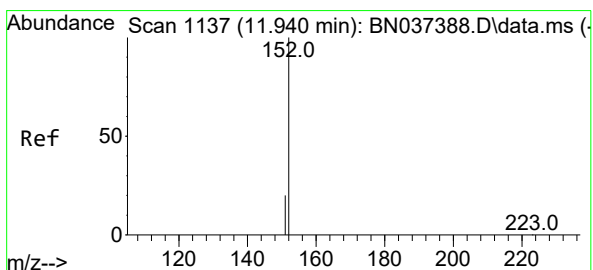
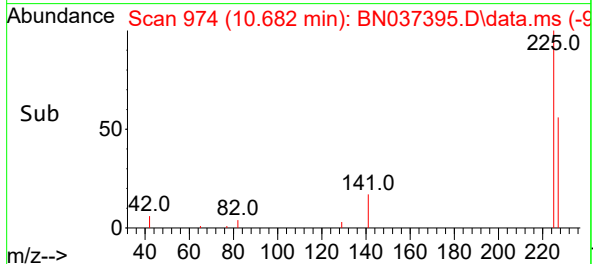
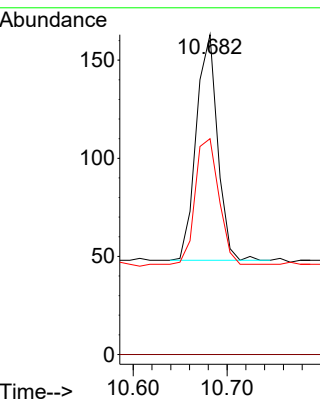
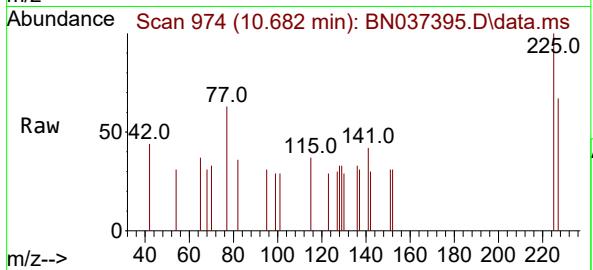
227 65.7 49.9 74.9

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Reviewed By :Rahul Chavli 06/27/2025

Supervised By :Jagrut Upadhyay 06/27/2025



#11

2-Methylnaphthalene-d10

Concen: 0.351 ng

RT: 11.940 min Scan# 1137

Delta R.T. -0.000 min

Lab File: BN037395.D

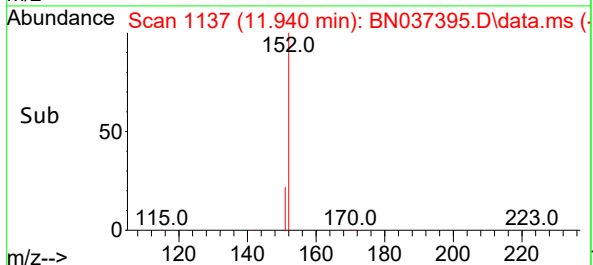
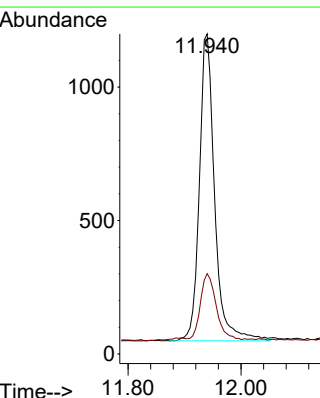
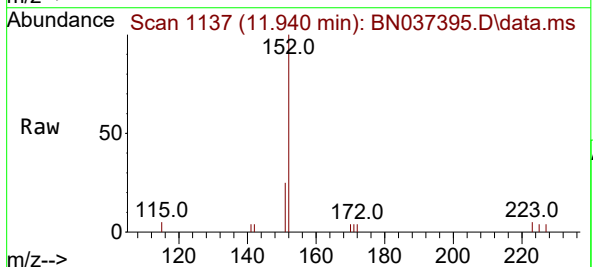
Acq: 26 Jun 2025 16:06

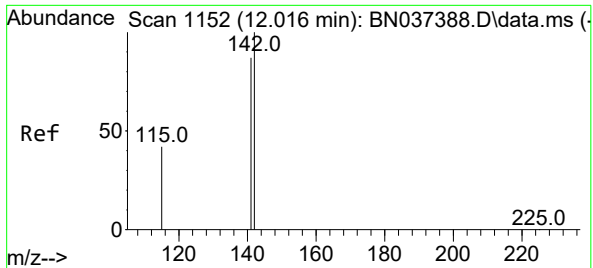
Tgt Ion:152 Resp: 2153

Ion Ratio Lower Upper

152 100

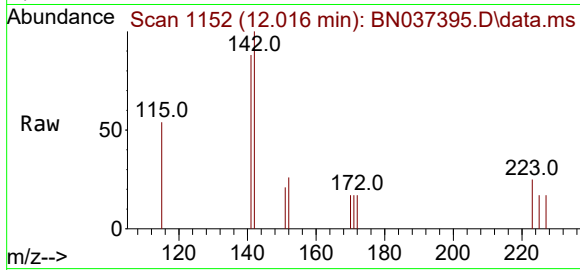
151 22.2 18.4 27.6





#12
2-Methylnaphthalene
Concen: 0.056 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

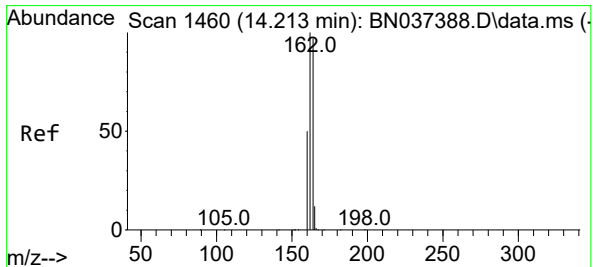
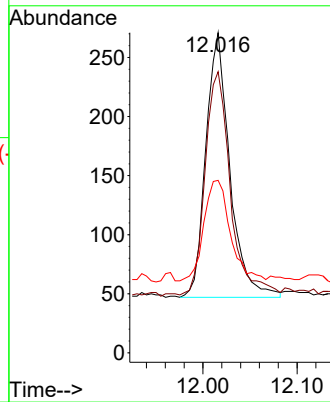
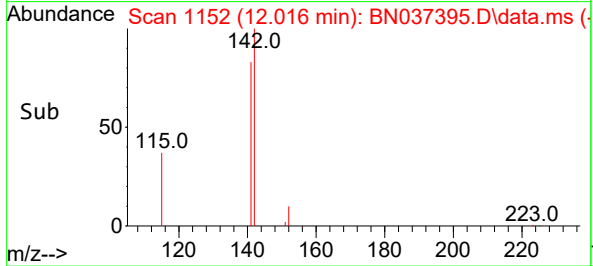
Instrument :
BNA_N
ClientSampleId :
EB02-20250616



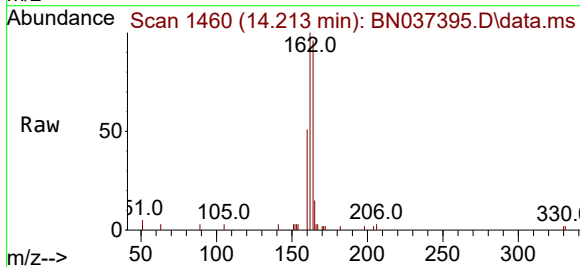
Tgt Ion:142 Resp: 390
Ion Ratio Lower Upper
142 100
141 87.8 70.1 105.1
115 53.9 35.8 53.6

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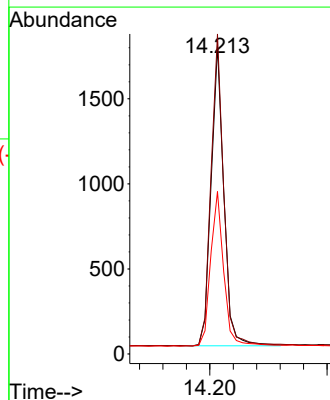
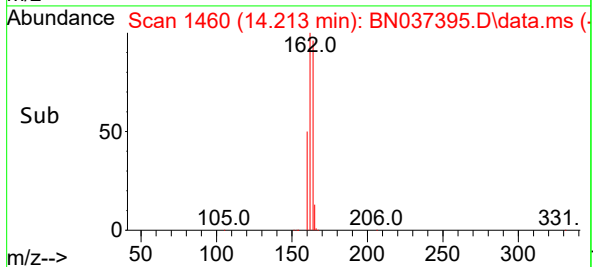
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

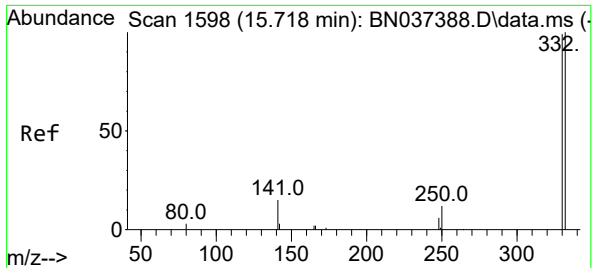


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06



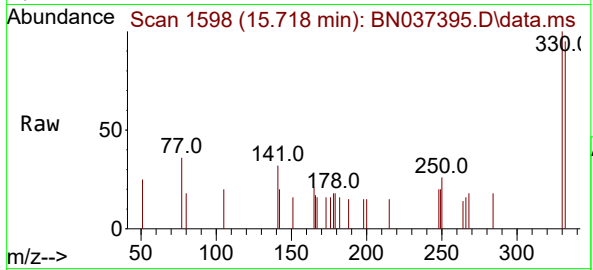
Tgt Ion:164 Resp: 2665
Ion Ratio Lower Upper
164 100
162 103.9 82.6 123.8
160 52.8 42.2 63.2





#14
2,4,6-Tribromophenol
Concen: 0.358 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

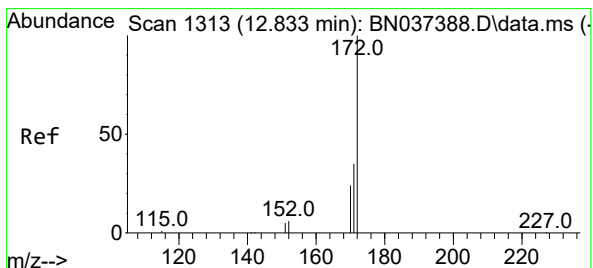
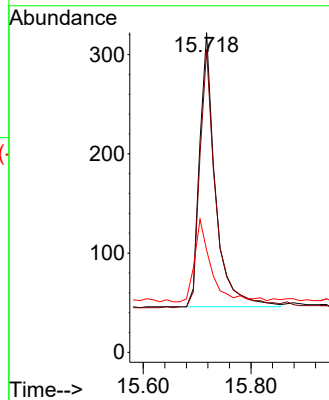
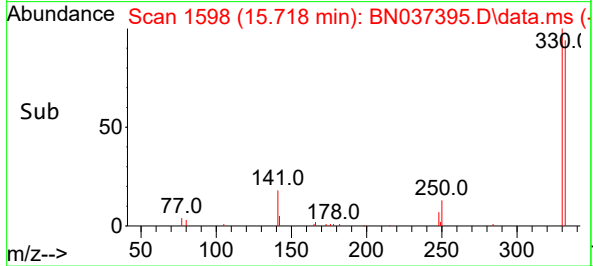
Instrument :
BNA_N
ClientSampleId :
EB02-20250616



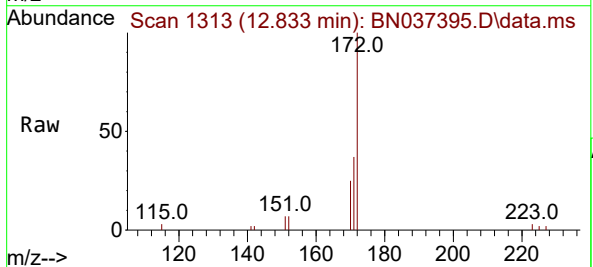
Tgt Ion: 330 Resp: 560
Ion Ratio Lower Upper
330 100
332 97.3 77.8 116.8
141 31.6 24.0 36.0

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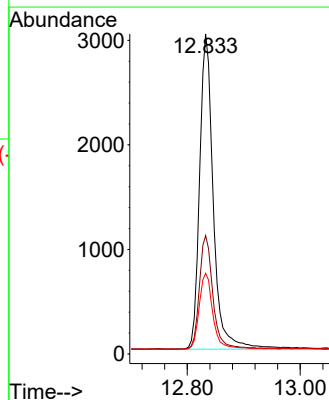
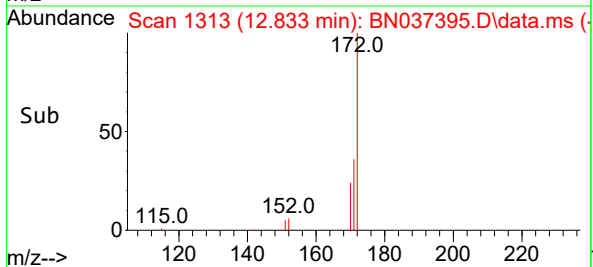
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

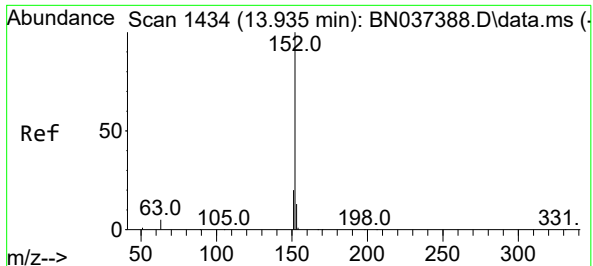


#15
2-Fluorobiphenyl
Concen: 0.442 ng
RT: 12.833 min Scan# 1313
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06



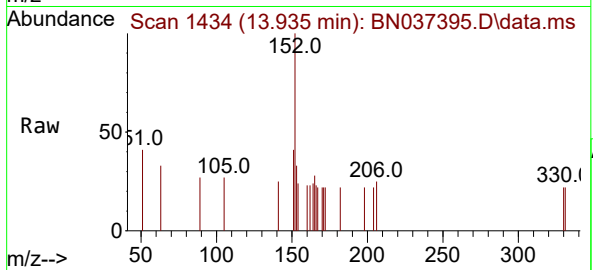
Tgt Ion: 172 Resp: 5087
Ion Ratio Lower Upper
172 100
171 37.0 28.8 43.2
170 25.2 20.3 30.5





#16
Acenaphthylene
Concen: 0.026 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

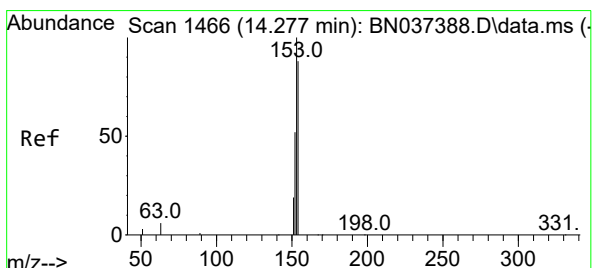
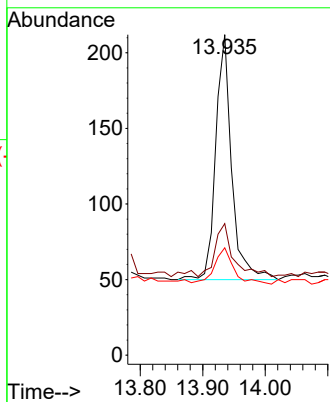
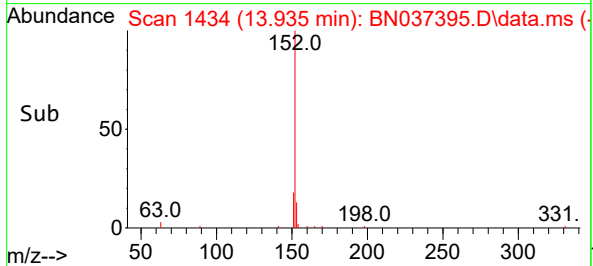
Instrument :
BNA_N
ClientSampleId :
EB02-20250616



Tgt Ion:152 Resp: 288
Ion Ratio Lower Upper
152 100
151 24.7 15.8 23.6
153 18.1 10.3 15.5

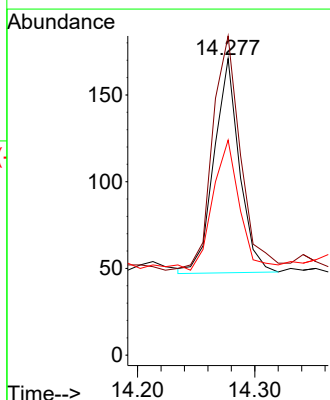
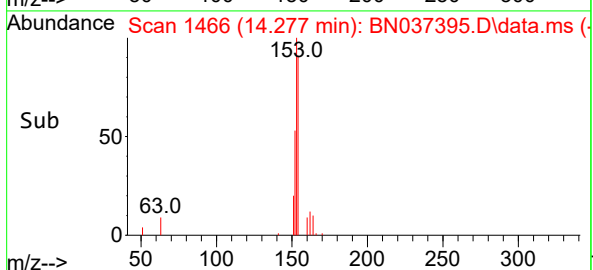
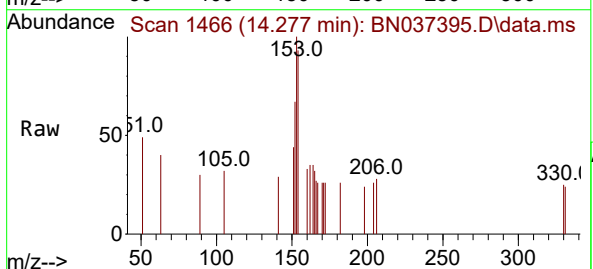
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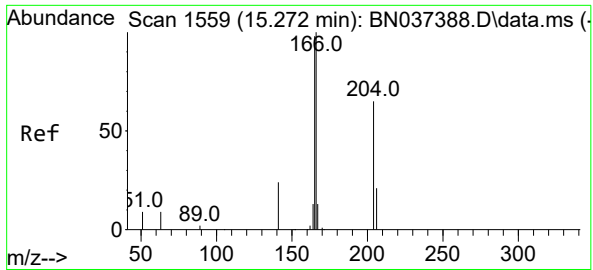
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#17
Acenaphthene
Concen: 0.026 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

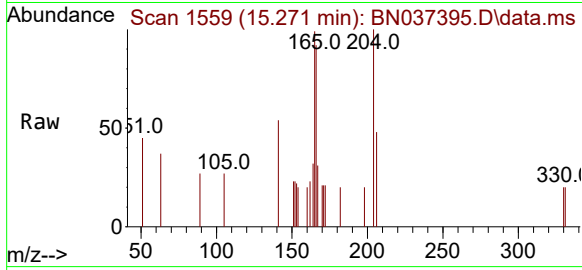
Tgt Ion:154 Resp: 185
Ion Ratio Lower Upper
154 100
153 122.2 94.6 141.8
152 63.8 50.2 75.2





#18
Fluorene
Concen: 0.032 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

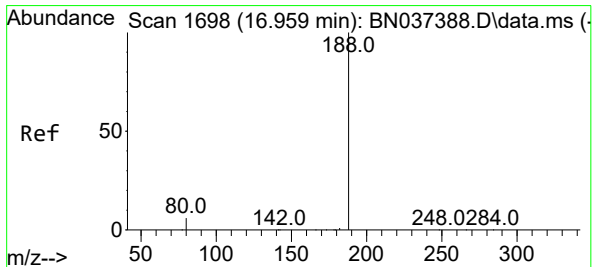
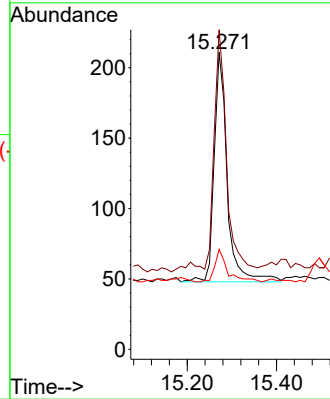
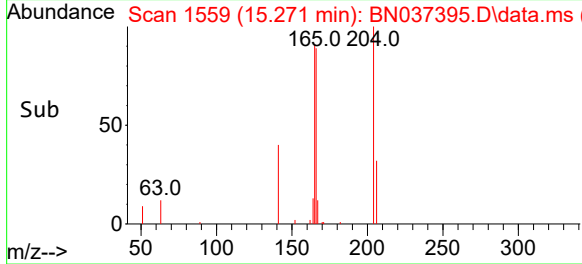
Instrument :
BNA_N
ClientSampleId :
EB02-20250616



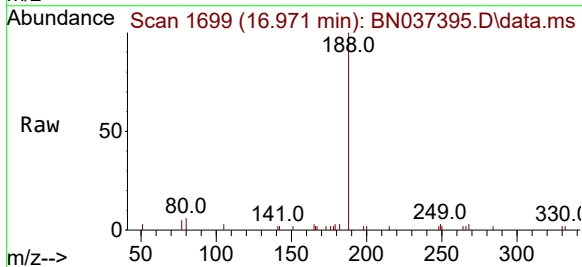
Tgt Ion:166 Resp: 329
Ion Ratio Lower Upper
166 100
165 97.3 79.4 119.2
167 13.4 10.6 15.8

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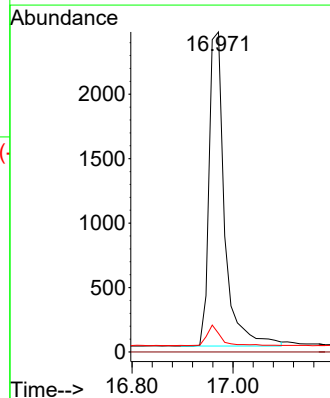
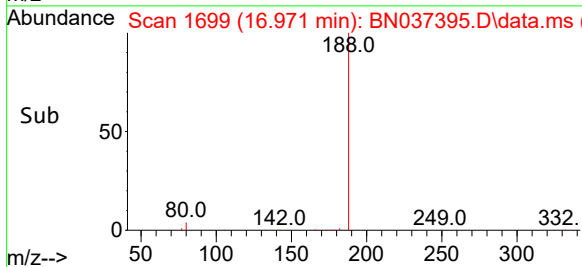
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

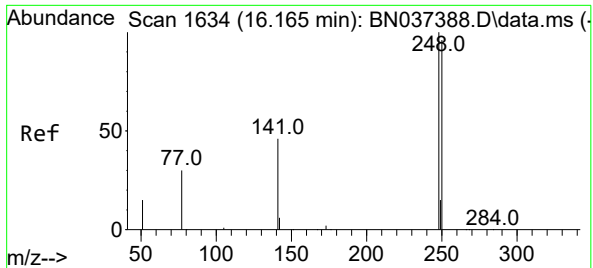


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.012 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06



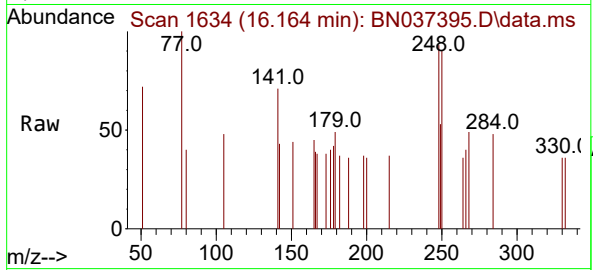
Tgt Ion:188 Resp: 5237
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 5.8 6.2 9.4#





#21
4-Bromophenyl-phenylether
Concen: 0.039 ng
RT: 16.164 min Scan# 1634
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

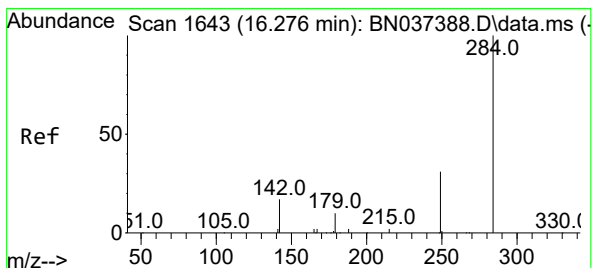
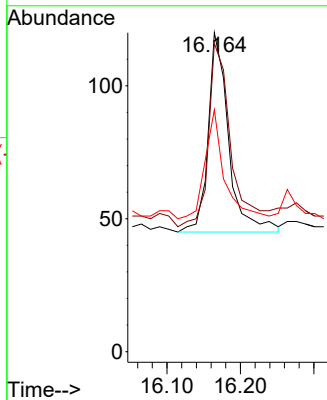
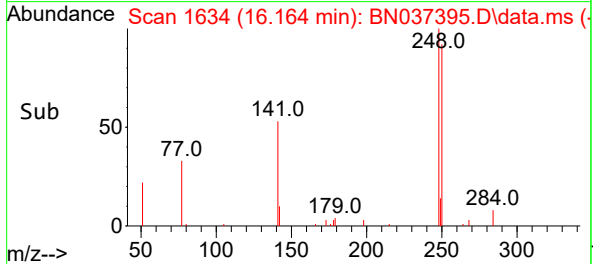
Instrument :
BNA_N
ClientSampleId :
EB02-20250616



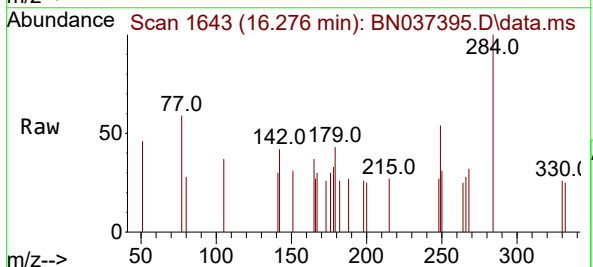
Tgt Ion:248 Resp: 145
Ion Ratio Lower Upper
248 100
250 96.7 77.0 115.4
141 75.8 38.7 58.1

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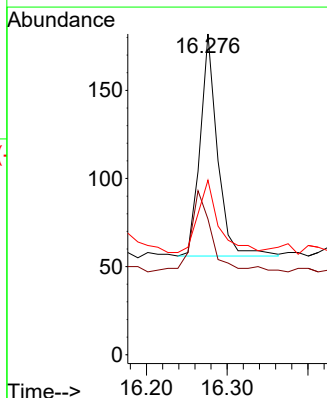
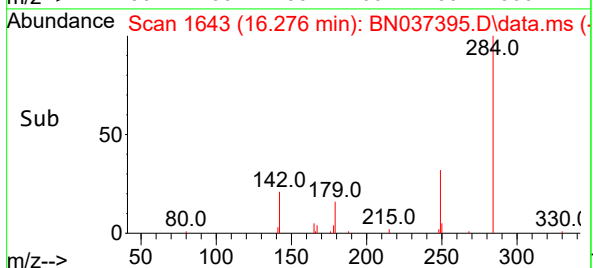
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

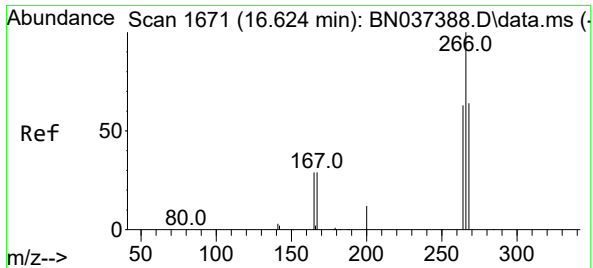


#22
Hexachlorobenzene
Concen: 0.048 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06



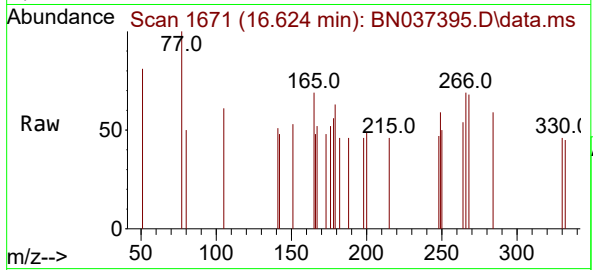
Tgt Ion:284 Resp: 189
Ion Ratio Lower Upper
284 100
142 44.4 27.2 40.8#
249 38.1 26.7 40.1





#24
Pentachlorophenol
Concen: 0.028 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

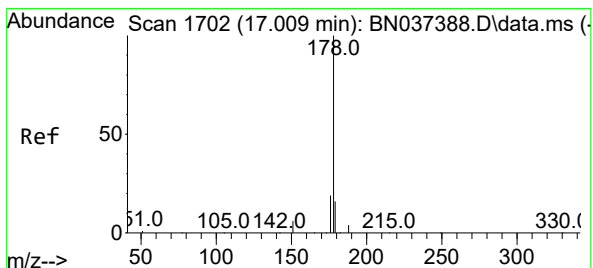
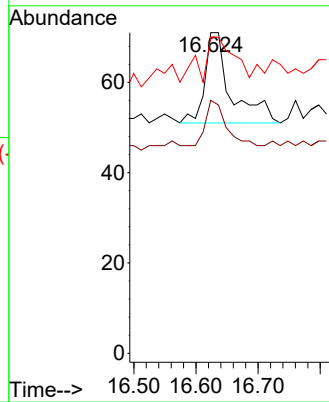
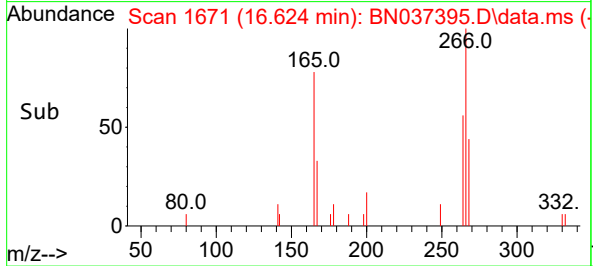
Instrument :
BNA_N
ClientSampleId :
EB02-20250616



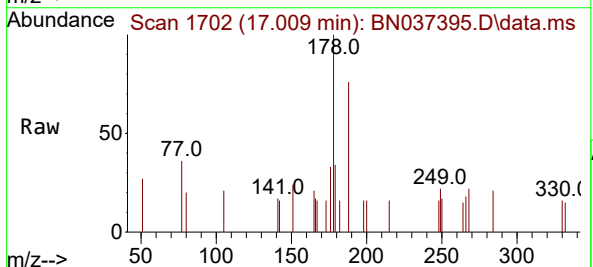
Tgt Ion: 266 Resp: 59
Ion Ratio Lower Upper
266 100
264 44.1 49.2 73.8
268 61.0 54.2 81.4

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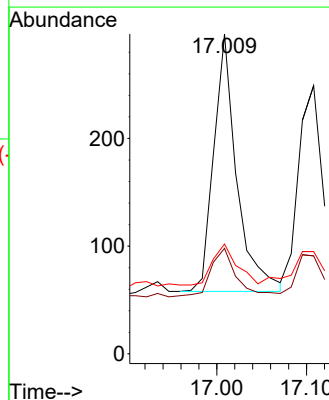
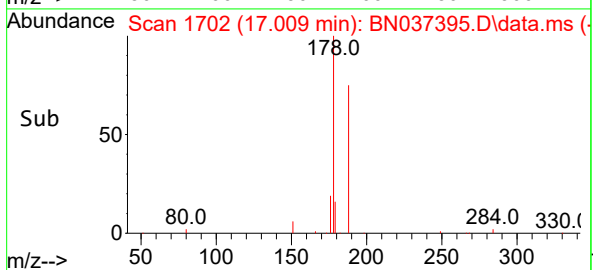
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

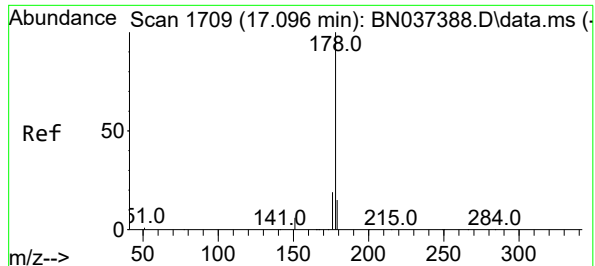


#25
Phenanthrene
Concen: 0.029 ng
RT: 17.009 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06



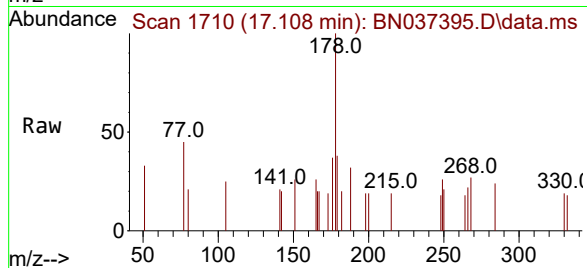
Tgt Ion: 178 Resp: 425
Ion Ratio Lower Upper
178 100
176 21.4 15.6 23.4
179 16.7 12.8 19.2





#26
Anthracene
Concen: 0.033 ng m
RT: 17.108 min Scan# 1710
Delta R.T. 0.012 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

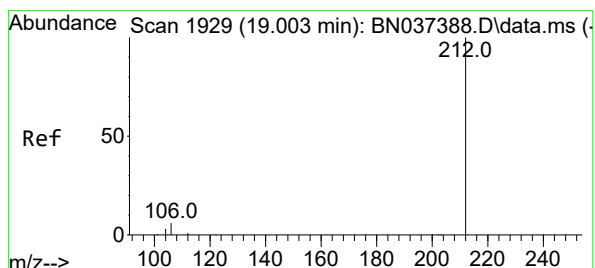
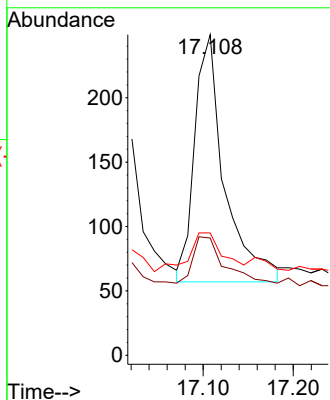
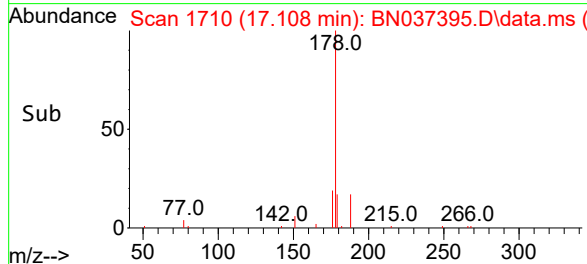
Instrument :
BNA_N
ClientSampleId :
EB02-20250616



Tgt Ion:178 Resp: 44
Ion Ratio Lower Upper
178 100
176 20.6 14.9 22.3
179 16.1 12.4 18.6

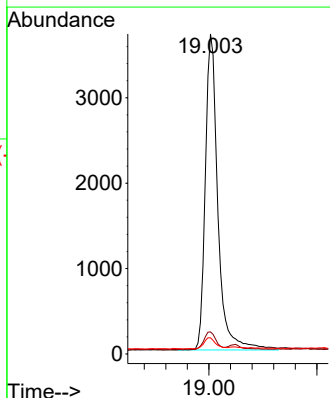
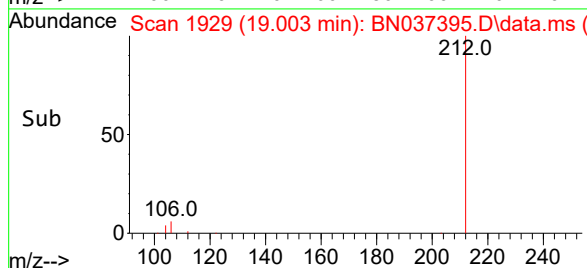
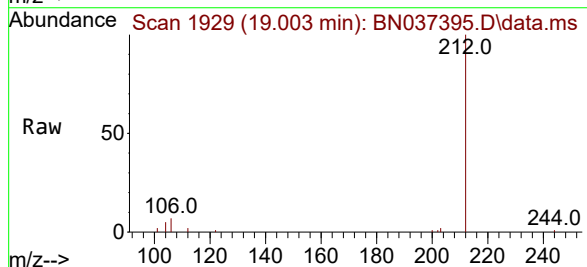
Manual Integrations
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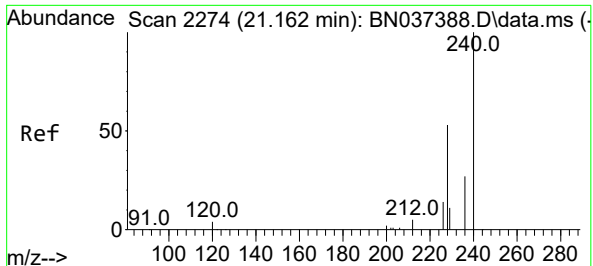
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#27
Fluoranthene-d10
Concen: 0.397 ng
RT: 19.003 min Scan# 1929
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

Tgt Ion:212 Resp: 5956
Ion Ratio Lower Upper
212 100
106 5.5 4.5 6.7
104 3.3 2.7 4.1





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037395.D

Acq: 26 Jun 2025 16:06

Instrument :

BNA_N

ClientSampleId :

EB02-20250616

Tgt Ion:240 Resp: 4862

Ion Ratio Lower Upper

240 100

120 8.5 5.3 7.9

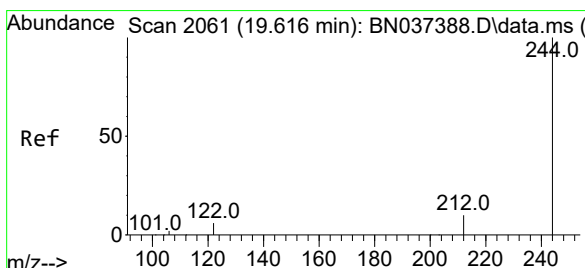
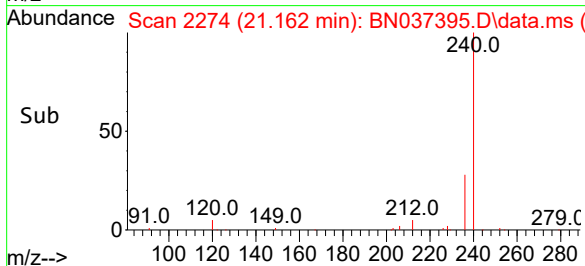
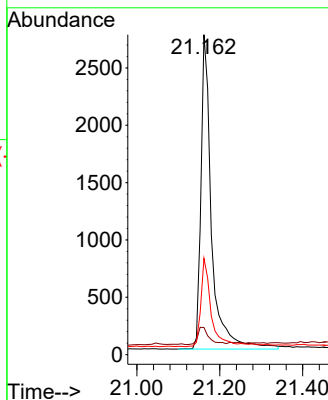
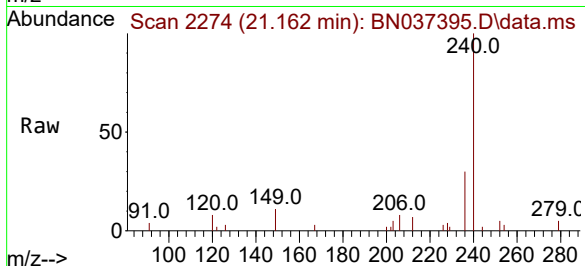
236 30.1 22.7 34.1

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 06/27/2025

Supervised By :Jagrut Upadhyay 06/27/2025



#31

Terphenyl-d14

Concen: 0.472 ng

RT: 19.611 min Scan# 2060

Delta R.T. -0.005 min

Lab File: BN037395.D

Acq: 26 Jun 2025 16:06

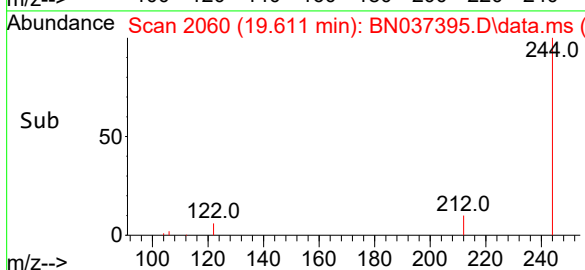
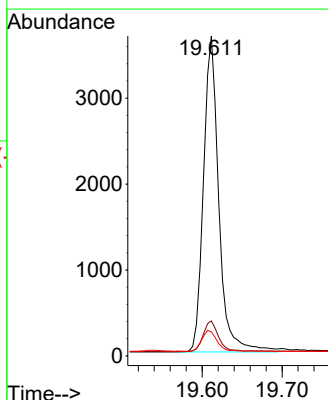
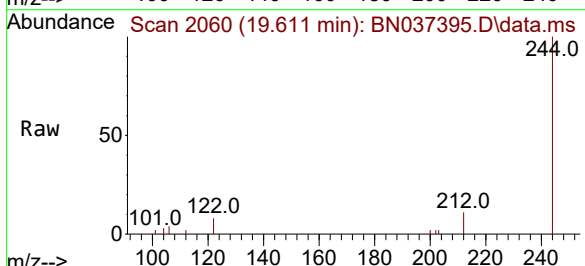
Tgt Ion:244 Resp: 4896

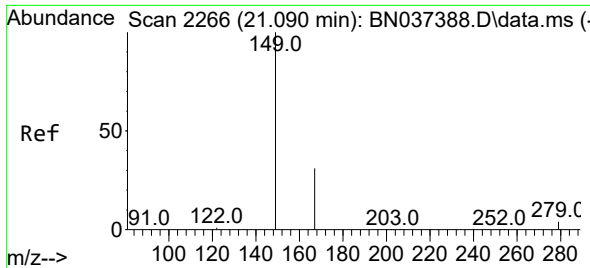
Ion Ratio Lower Upper

244 100

212 10.9 9.1 13.7

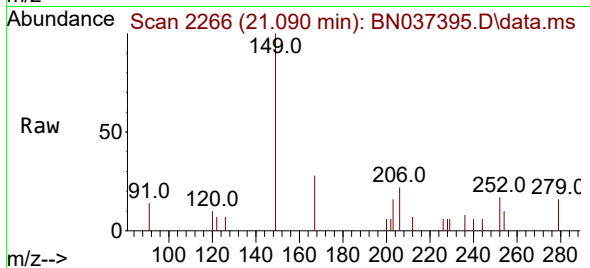
122 7.5 6.3 9.5





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.117 ng
RT: 21.090 min Scan# 2106
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

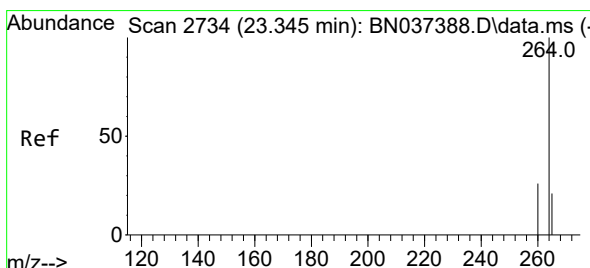
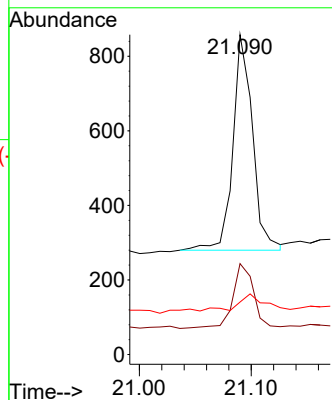
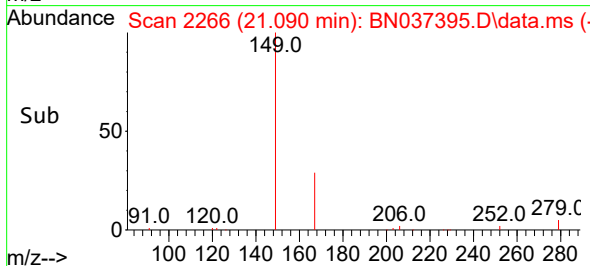
Instrument :
BNA_N
ClientSampleId :
EB02-20250616



Tgt Ion:149 Resp: 700
Ion Ratio Lower Upper
149 100
167 32.2 24.8 37.2
279 10.8 5.0 7.6

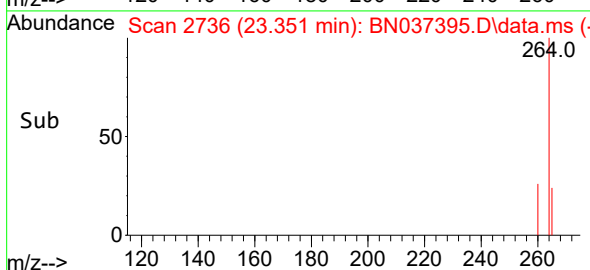
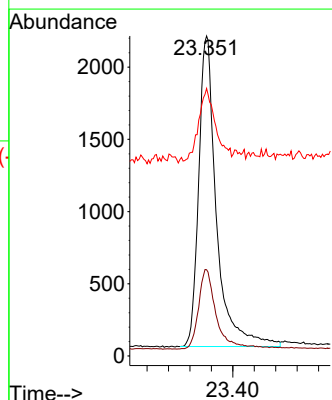
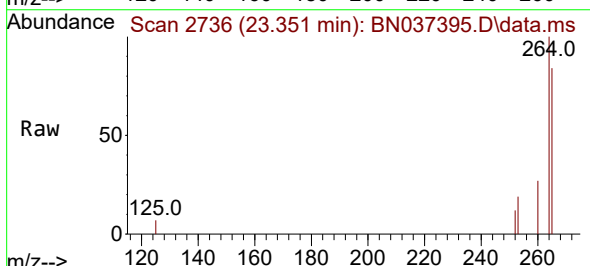
Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.351 min Scan# 2736
Delta R.T. 0.006 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

Tgt Ion:264 Resp: 4950
Ion Ratio Lower Upper
264 100
260 27.0 21.4 32.0
265 83.6 56.2 84.4



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/17/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/17/25
Client Sample ID:	TT189D2-20250617	SDG No.:	Q2345
Lab Sample ID:	Q2345-13	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037396.D	1	06/20/25 09:32	06/26/25 16:42	PB168563

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.30	E	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		82%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		101%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		69%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.60	*	53 - 106		150%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.44		58 - 132		110%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1680		7.568			
1146-65-2	Naphthalene-d8	3640		10.34			
15067-26-2	Acenaphthene-d10	2500		14.213			
1517-22-2	Phenanthrene-d10	5120		16.971			
1719-03-5	Chrysene-d12	5270		21.162			
1520-96-3	Perylene-d12	5670		23.348			

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\BN062625\
Data File : BN037396.D
Acq On : 26 Jun 2025 16:42
Operator : RC/JU
Sample : Q2345-13
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250617

Quant Time: Jun 26 17:04:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

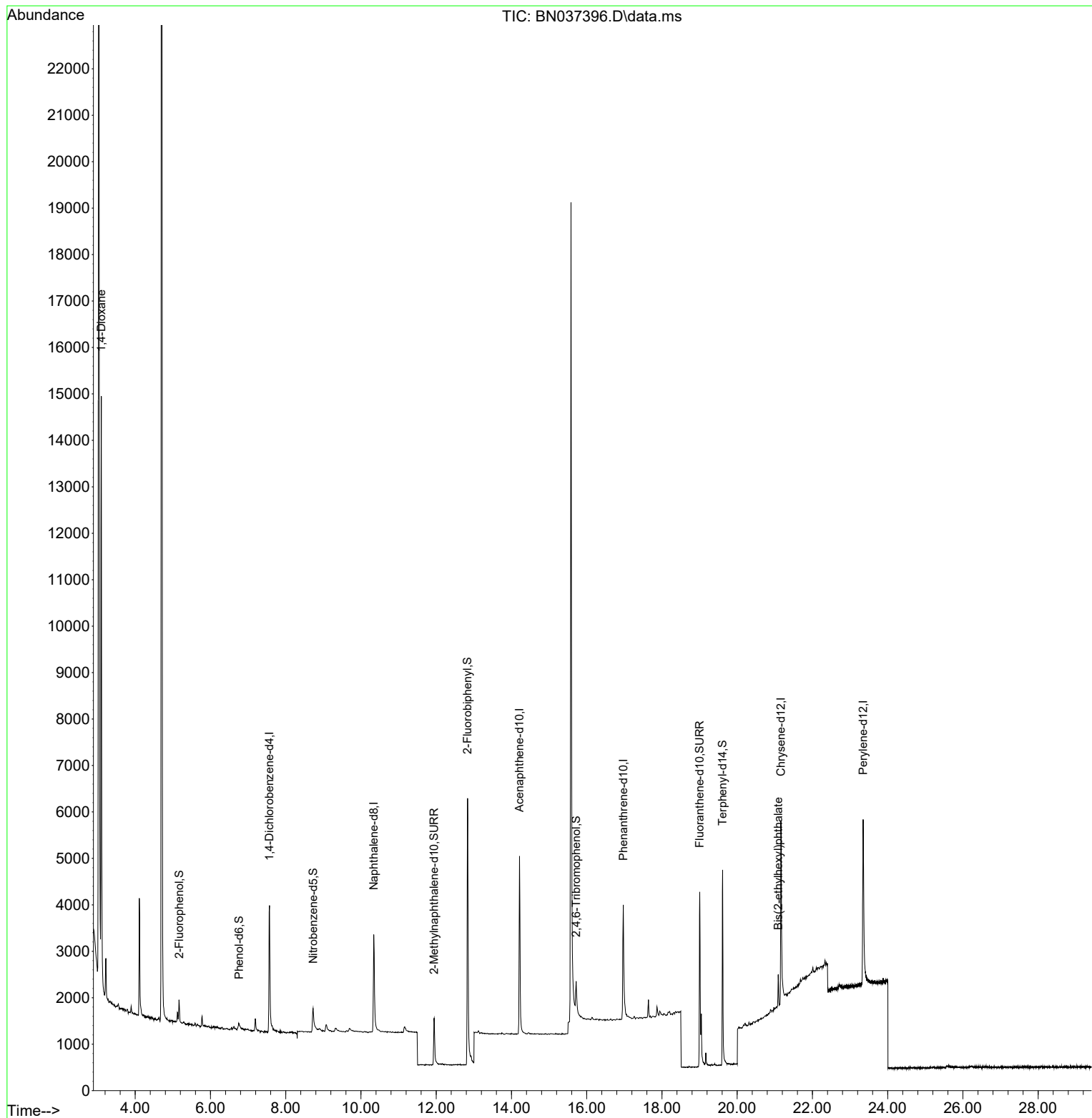
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1675	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	3636	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2498	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5119	0.400	ng	0.01
29) Chrysene-d12	21.162	240	5273	0.400	ng	# 0.00
35) Perylene-d12	23.348	264	5674	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	411	0.127	ng	0.00
5) Phenol-d6	6.759	99	188	0.056	ng	0.01
8) Nitrobenzene-d5	8.728	82	801	0.275	ng	0.01
11) 2-Methylnaphthalene-d10	11.940	152	1841	0.327	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	558	0.381	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	6493	0.602	ng	0.00
27) Fluoranthene-d10	19.003	212	5925	0.404	ng	0.00
31) Terphenyl-d14	19.611	244	4941	0.439	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.097	88	8352	5.258	ng	96
34) Bis(2-ethylhexyl)phtha...	21.090	149	638	0.097	ng	# 97

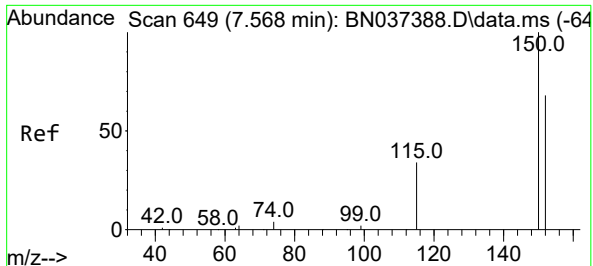
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037396.D
Acq On : 26 Jun 2025 16:42
Operator : RC/JU
Sample : Q2345-13
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250617

Quant Time: Jun 26 17:04:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

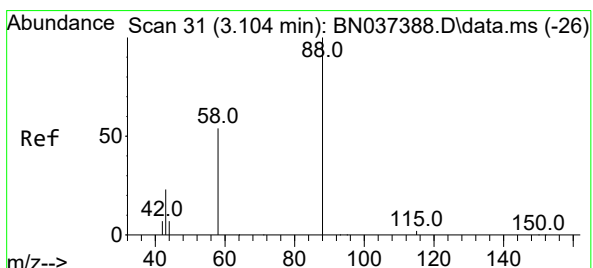
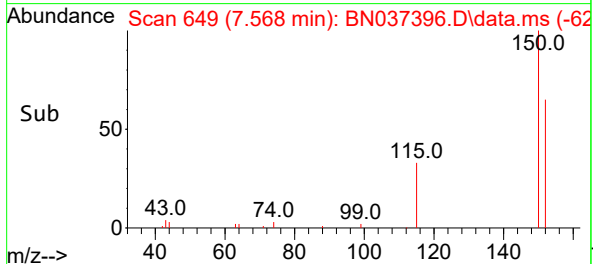
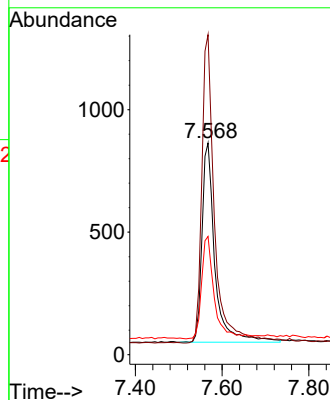
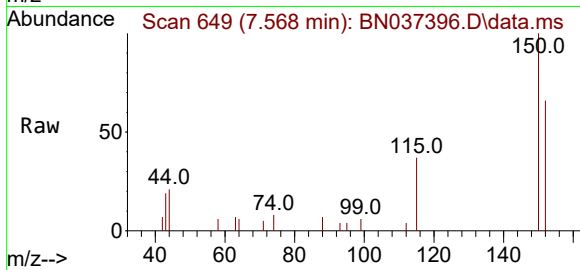




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037396.D
Acq: 26 Jun 2025 16:42

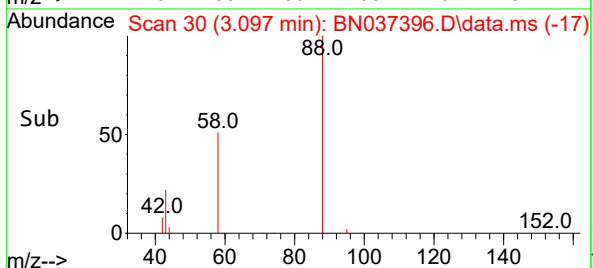
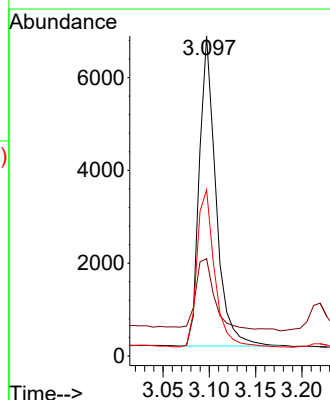
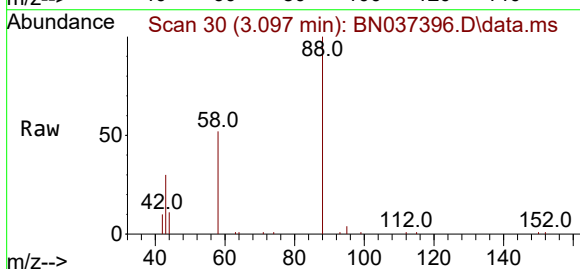
Instrument :
BNA_N
ClientSampleId :
TT189D2-20250617

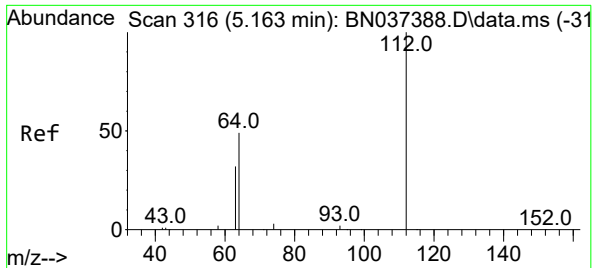
Tgt Ion:152 Resp: 1675
Ion Ratio Lower Upper
152 100
150 151.2 116.2 174.2
115 55.9 42.9 64.3



#2
1,4-Dioxane
Concen: 5.258 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037396.D
Acq: 26 Jun 2025 16:42

Tgt Ion: 88 Resp: 8352
Ion Ratio Lower Upper
88 100
43 27.6 21.6 32.4
58 53.6 45.9 68.9

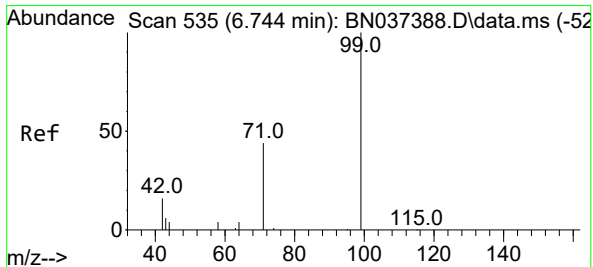
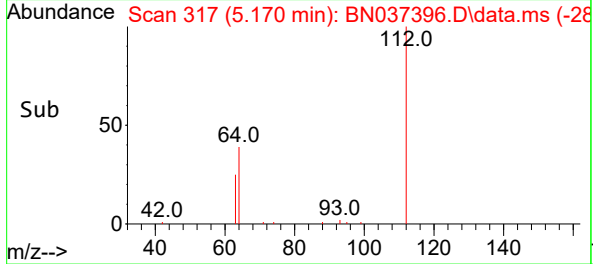
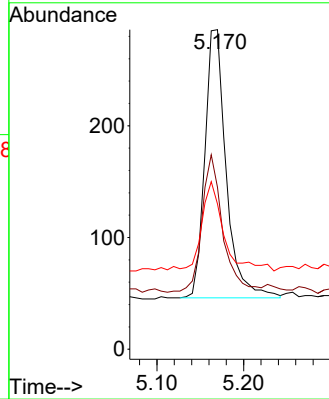
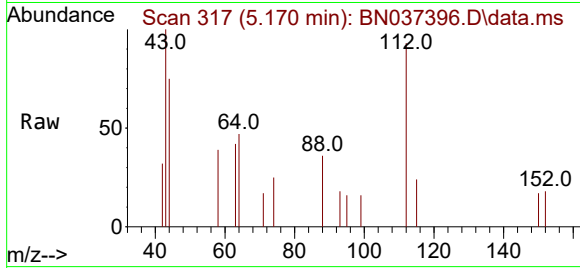




#4
2-Fluorophenol
Concen: 0.127 ng
RT: 5.170 min Scan# 316
Delta R.T. 0.007 min
Lab File: BN037396.D
Acq: 26 Jun 2025 16:42

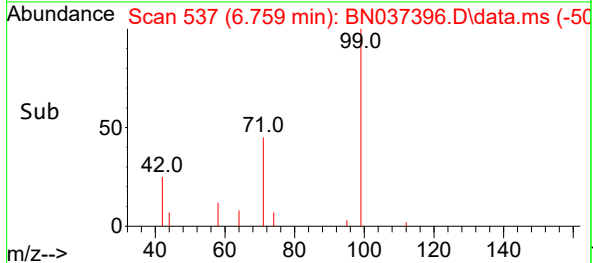
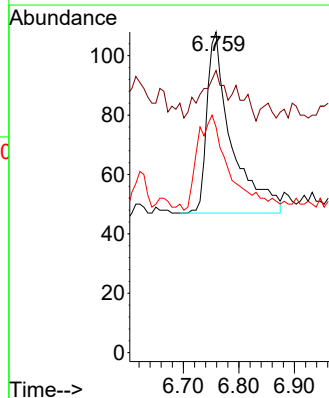
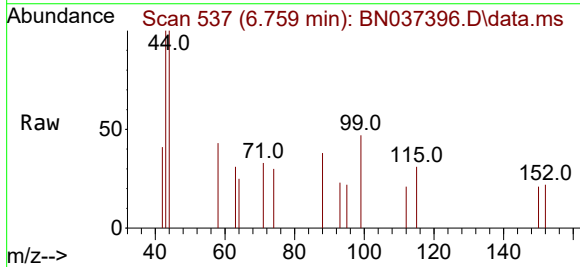
Instrument :
BNA_N
ClientSampleId :
TT189D2-20250617

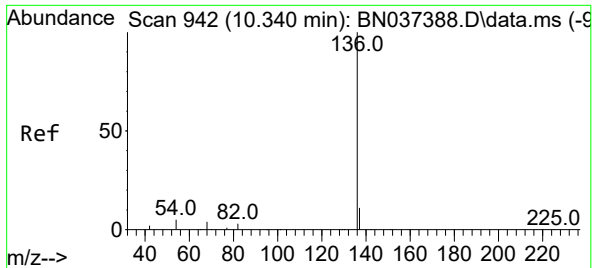
Tgt Ion:112 Resp: 411
Ion Ratio Lower Upper
112 100
64 49.9 40.3 60.5
63 34.8 26.1 39.1



#5
Phenol-d6
Concen: 0.056 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.014 min
Lab File: BN037396.D
Acq: 26 Jun 2025 16:42

Tgt Ion: 99 Resp: 188
Ion Ratio Lower Upper
99 100
42 22.9 15.6 23.4
71 69.1 35.8 53.8#

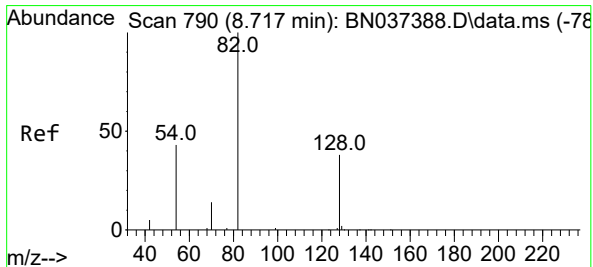
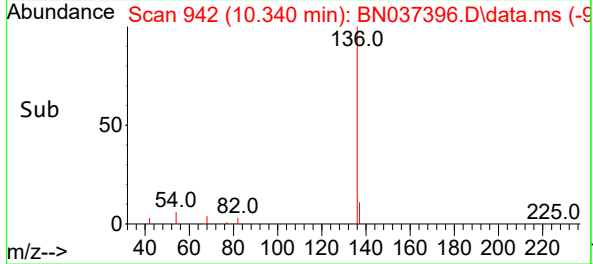
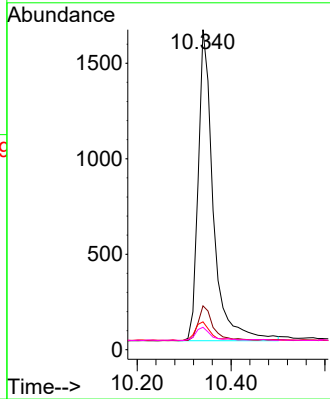
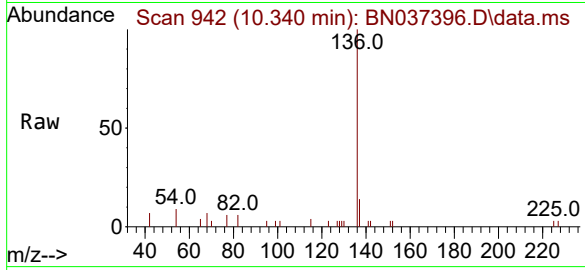




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.000 min
Lab File: BN037396.D
Acq: 26 Jun 2025 16:42

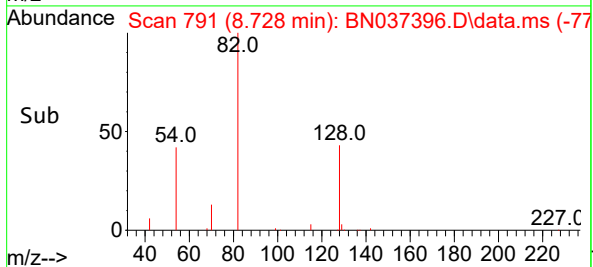
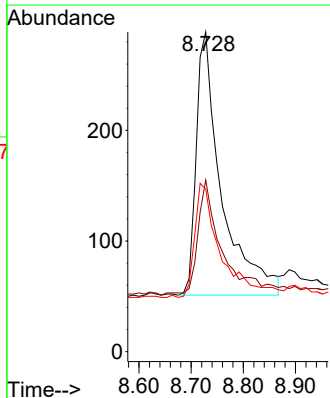
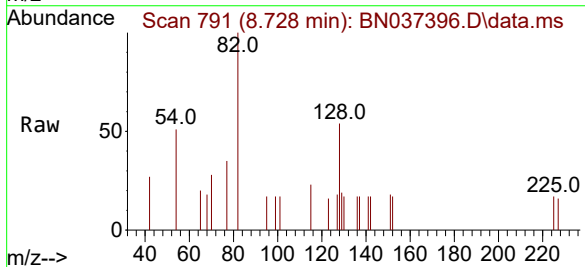
Instrument :
BNA_N
ClientSampleId :
TT189D2-20250617

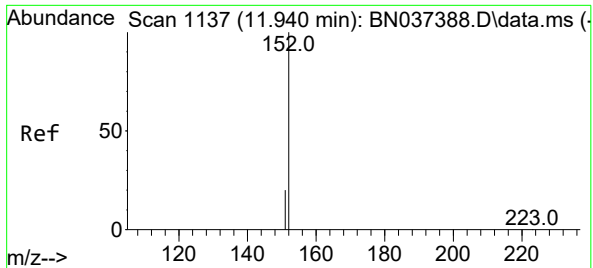
Tgt Ion:	136	Resp:	3636
Ion Ratio	Lower	Upper	
136	100		
137	13.7	10.4	15.6
54	8.7	5.6	8.4#
68	7.0	4.6	6.8#



#8
Nitrobenzene-d5
Concen: 0.275 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.011 min
Lab File: BN037396.D
Acq: 26 Jun 2025 16:42

Tgt Ion:	82	Resp:	801
Ion Ratio	Lower	Upper	
82	100		
128	53.6	34.0	51.0#
54	50.9	37.7	56.5

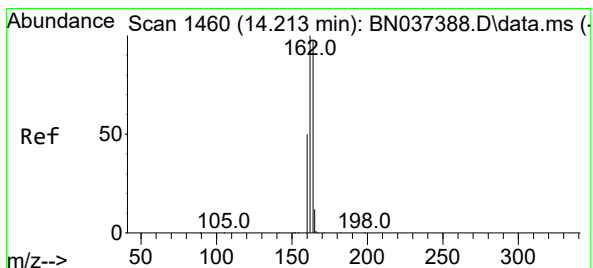
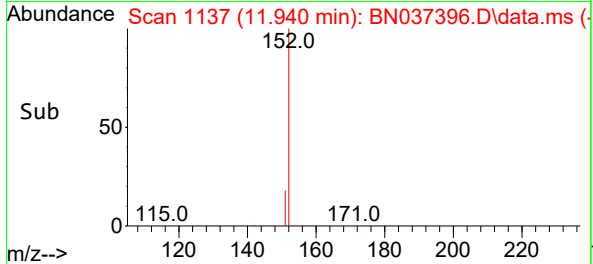
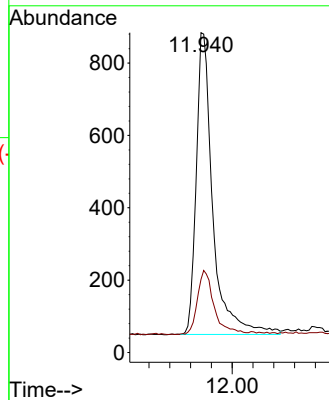
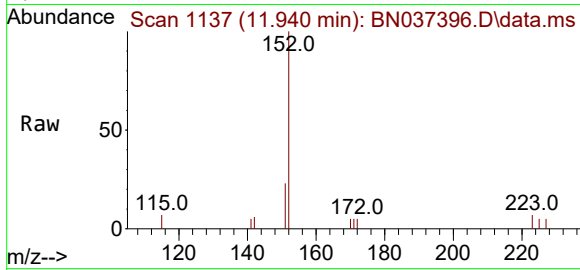




#11
2-Methylnaphthalene-d10
Concen: 0.327 ng
RT: 11.940 min Scan# 1137
Delta R.T. -0.000 min
Lab File: BN037396.D
Acq: 26 Jun 2025 16:42

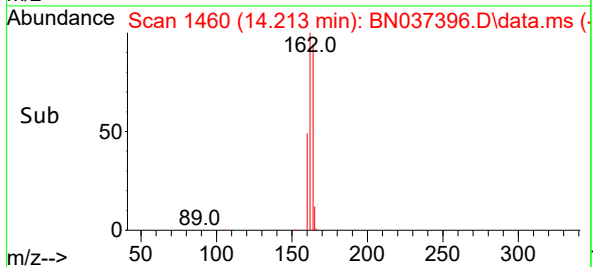
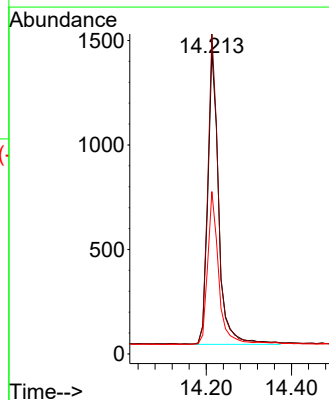
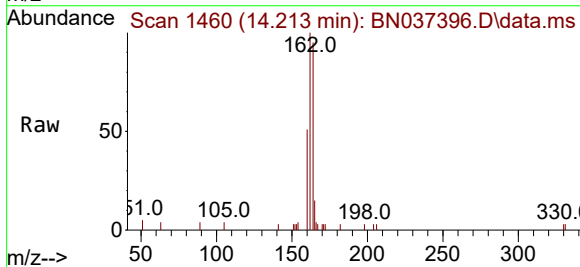
Instrument :
BNA_N
ClientSampleId :
TT189D2-20250617

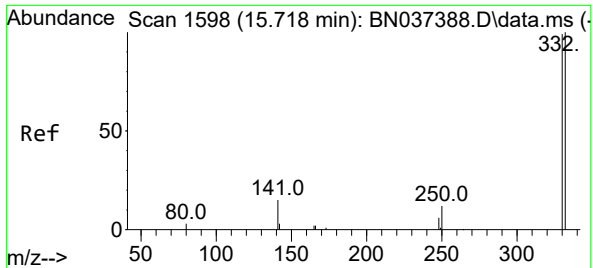
Tgt Ion:152 Resp: 1841
Ion Ratio Lower Upper
152 100
151 21.3 18.4 27.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037396.D
Acq: 26 Jun 2025 16:42

Tgt Ion:164 Resp: 2498
Ion Ratio Lower Upper
164 100
162 105.7 82.6 123.8
160 53.7 42.2 63.2

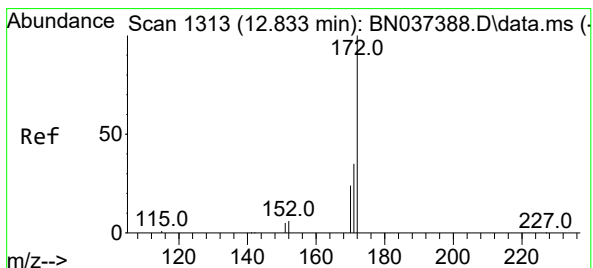
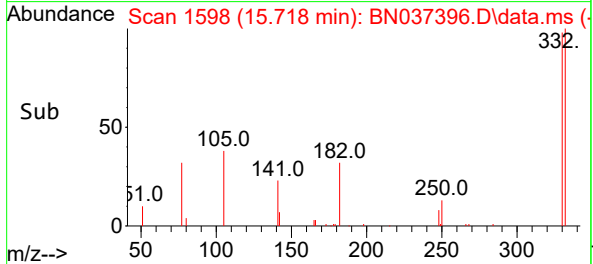
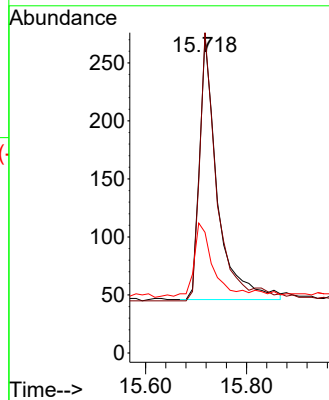
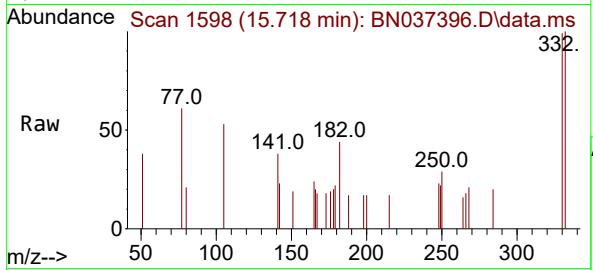




#14
2,4,6-Tribromophenol
Concen: 0.381 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037396.D
Acq: 26 Jun 2025 16:42

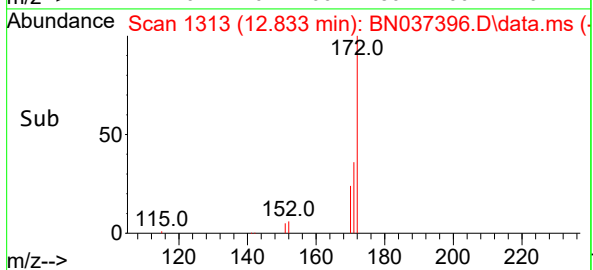
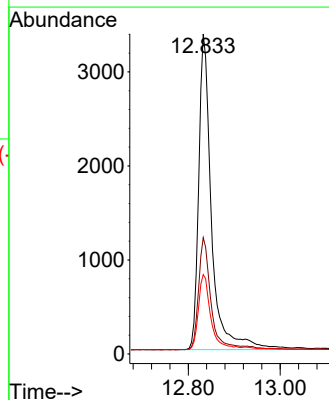
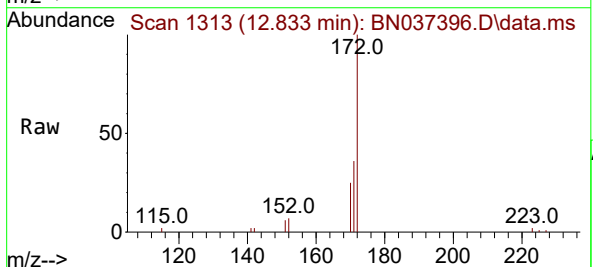
Instrument :
BNA_N
ClientSampleId :
TT189D2-20250617

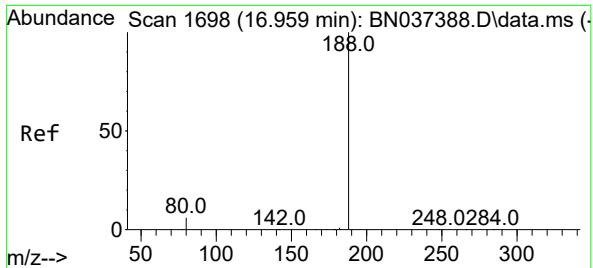
Tgt Ion:330 Resp: 558
Ion Ratio Lower Upper
330 100
332 98.9 77.8 116.8
141 28.5 24.0 36.0



#15
2-Fluorobiphenyl
Concen: 0.602 ng
RT: 12.833 min Scan# 1313
Delta R.T. -0.000 min
Lab File: BN037396.D
Acq: 26 Jun 2025 16:42

Tgt Ion:172 Resp: 6493
Ion Ratio Lower Upper
172 100
171 36.4 28.8 43.2
170 24.8 20.3 30.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.012 min

Lab File: BN037396.D

Acq: 26 Jun 2025 16:42

Instrument :

BNA_N

ClientSampleId :

TT189D2-20250617

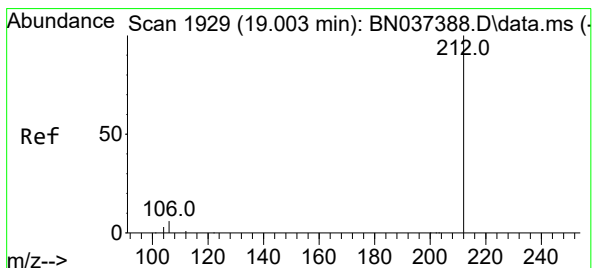
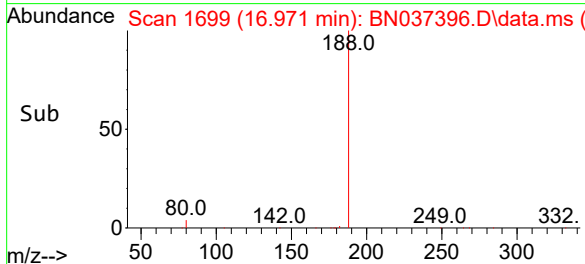
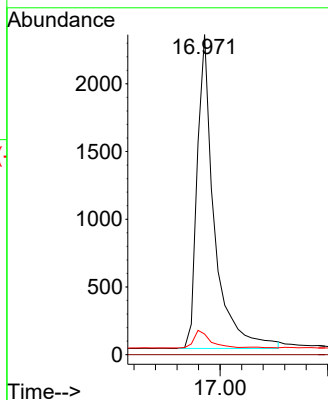
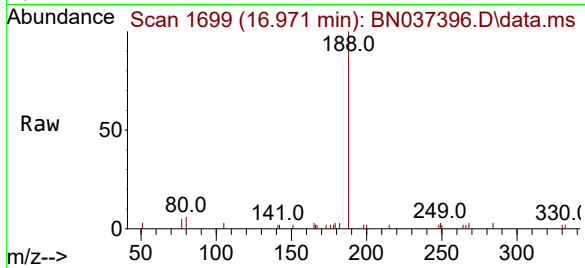
Tgt Ion:188 Resp: 5119

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.4 6.2 9.4



#27

Fluoranthene-d10

Concen: 0.404 ng

RT: 19.003 min Scan# 1929

Delta R.T. -0.000 min

Lab File: BN037396.D

Acq: 26 Jun 2025 16:42

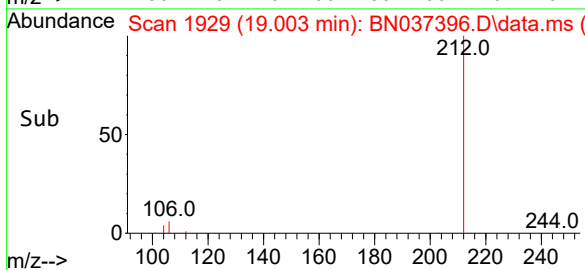
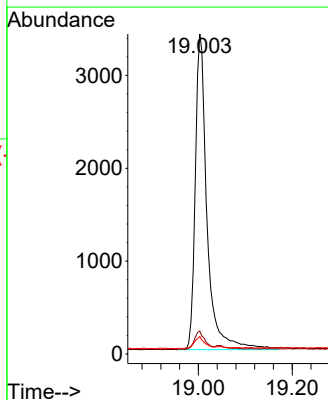
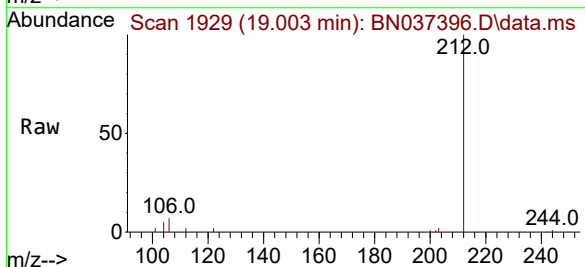
Tgt Ion:212 Resp: 5925

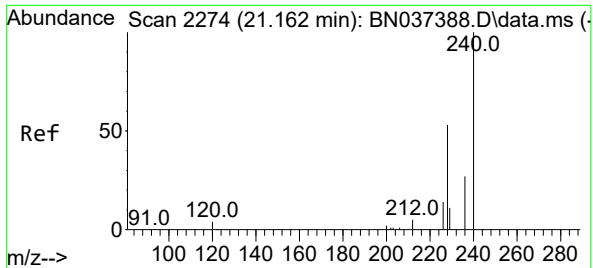
Ion Ratio Lower Upper

212 100

106 5.0 4.5 6.7

104 3.3 2.7 4.1

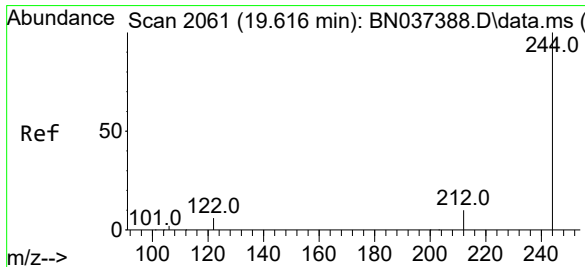
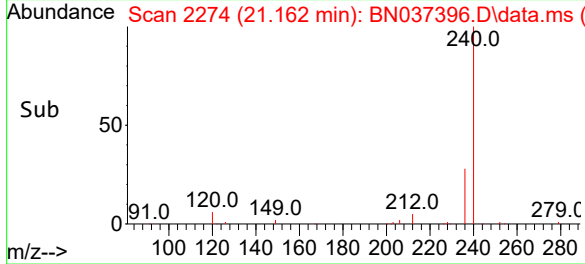
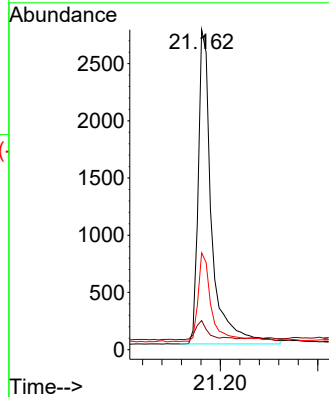
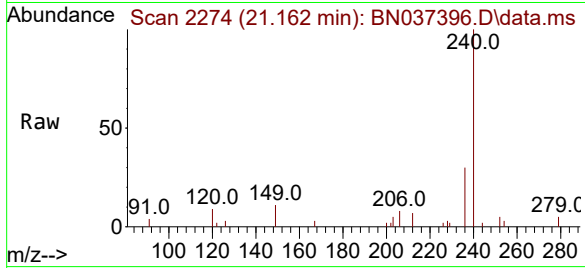




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 211
Delta R.T. -0.000 min
Lab File: BN037396.D
Acq: 26 Jun 2025 16:42

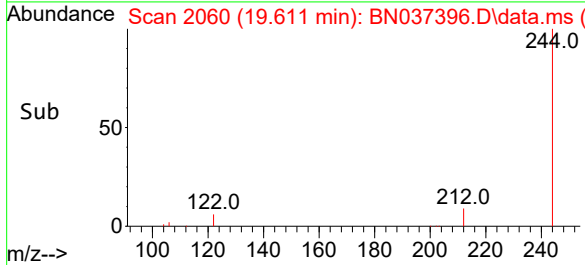
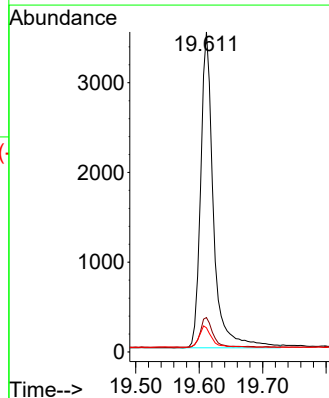
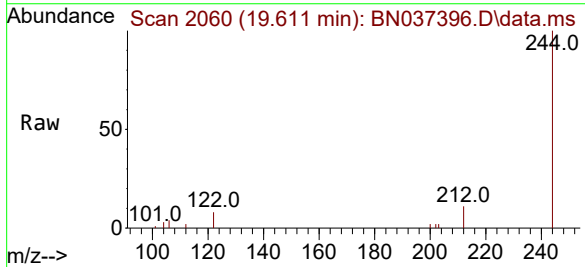
Instrument :
BNA_N
ClientSampleId :
TT189D2-20250617

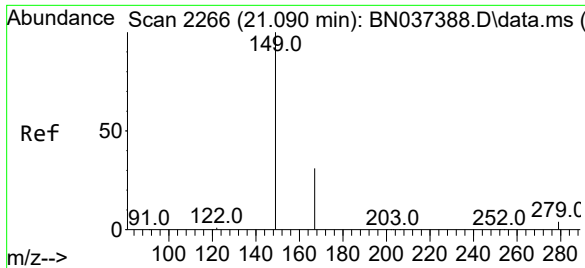
Tgt Ion:240 Resp: 5273
Ion Ratio Lower Upper
240 100
120 9.1 5.3 7.9#
236 30.2 22.7 34.1



#31
Terphenyl-d14
Concen: 0.439 ng
RT: 19.611 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN037396.D
Acq: 26 Jun 2025 16:42

Tgt Ion:244 Resp: 4941
Ion Ratio Lower Upper
244 100
212 10.7 9.1 13.7
122 7.6 6.3 9.5

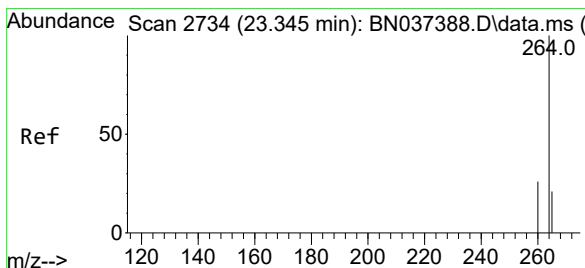
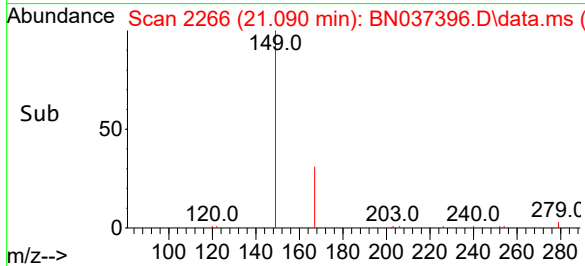
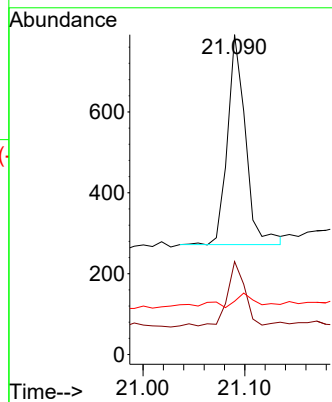
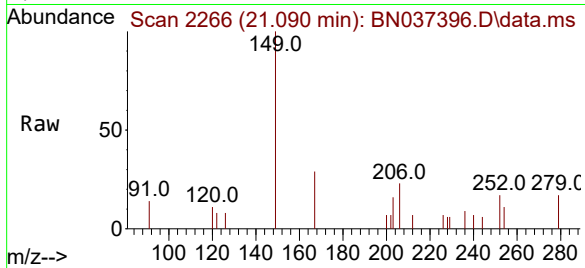




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 21.090 min Scan# 2109
Delta R.T. -0.000 min
Lab File: BN037396.D
Acq: 26 Jun 2025 16:42

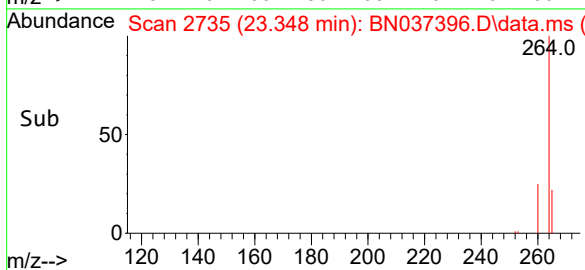
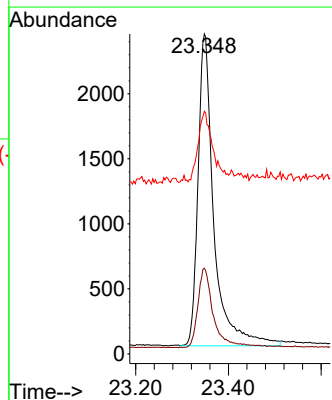
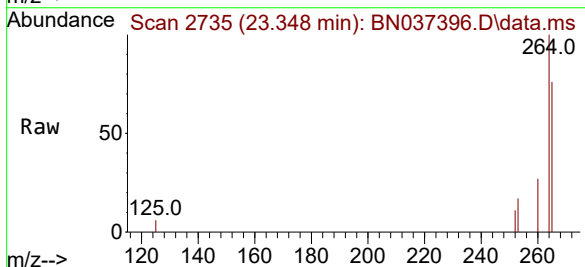
Instrument :
BNA_N
ClientSampleId :
TT189D2-20250617

Tgt Ion:149 Resp: 638
Ion Ratio Lower Upper
149 100
167 29.6 24.8 37.2
279 8.2 5.0 7.6#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.348 min Scan# 2735
Delta R.T. 0.003 min
Lab File: BN037396.D
Acq: 26 Jun 2025 16:42

Tgt Ion:264 Resp: 5674
Ion Ratio Lower Upper
264 100
260 26.8 21.4 32.0
265 75.9 56.2 84.4



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/17/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/17/25
Client Sample ID:	TT189D2-20250617DL	SDG No.:	Q2345
Lab Sample ID:	Q2345-13DL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037419.D	2	06/20/25 09:32	06/27/25 11:21	PB168563

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	5.60	D	0.13	0.40	0.40	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		89%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.45		30 - 150		112%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.28		55 - 111		69%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.58	*	53 - 106		146%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.47		58 - 132		117%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1830		7.56			
1146-65-2	Naphthalene-d8	3780		10.34			
15067-26-2	Acenaphthene-d10	2820		14.213			
1517-22-2	Phenanthrene-d10	5810		16.971			
1719-03-5	Chrysene-d12	6100		21.162			
1520-96-3	Perylene-d12	6390		23.345			

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\BN062725\
Data File : BN037419.D
Acq On : 27 Jun 2025 11:21
Operator : RC/JU
Sample : Q2345-13DL 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250617DL

Quant Time: Jun 27 12:17:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

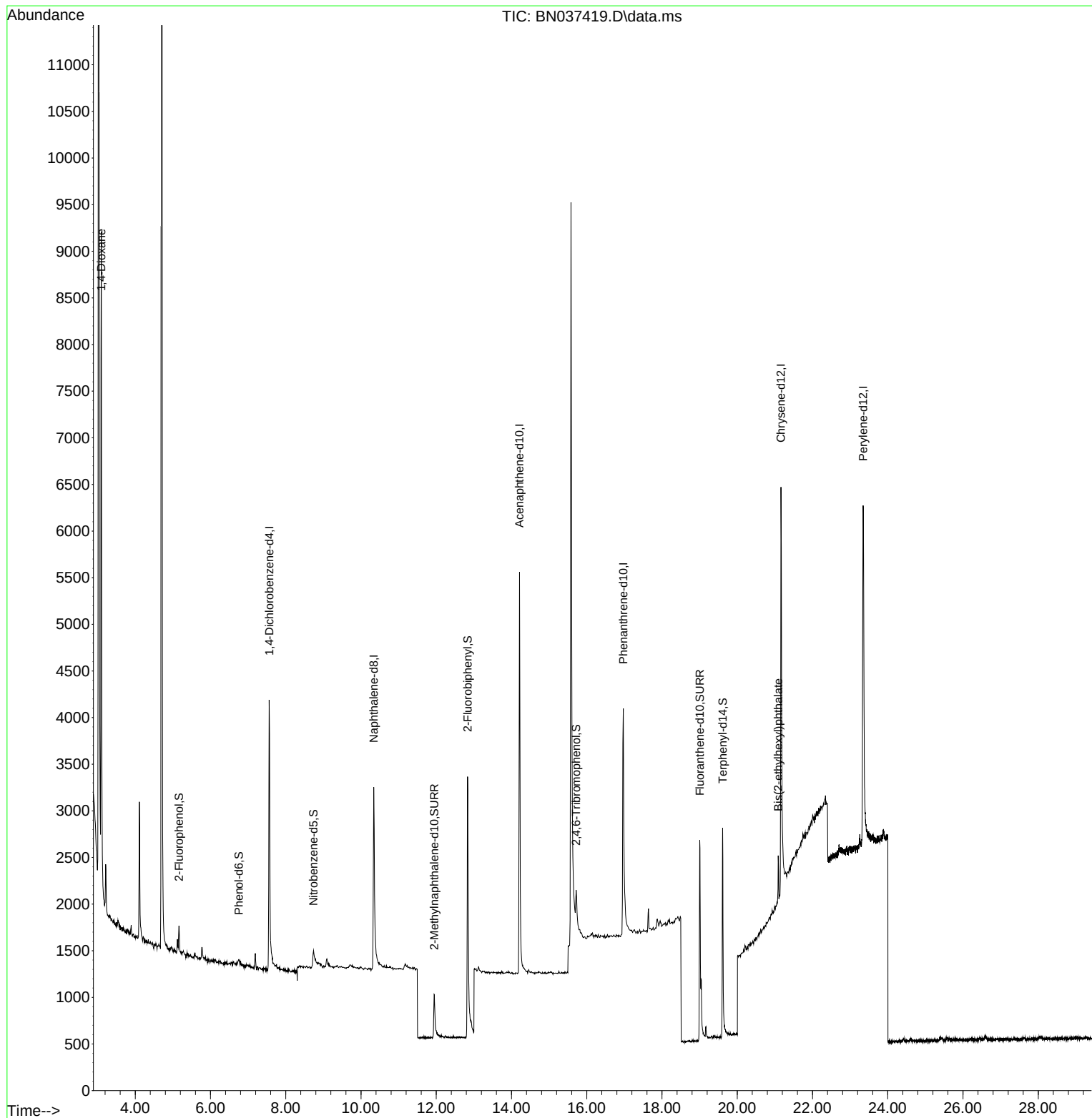
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.560	152	1828	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	3778	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2817	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5807	0.400	ng	0.01
29) Chrysene-d12	21.162	240	6103	0.400	ng	# 0.00
35) Perylene-d12	23.345	264	6394	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	246	0.070	ng	0.00
5) Phenol-d6	6.752	99	94	0.026	ng	0.00
8) Nitrobenzene-d5	8.739	82	418	0.138	ng	0.02
11) 2-Methylnaphthalene-d10	11.945	152	1042	0.178	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	346	0.209	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	3557	0.292	ng	0.00
27) Fluoranthene-d10	19.003	212	3714	0.223	ng	0.00
31) Terphenyl-d14	19.611	244	3058	0.235	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.097	88	4810	2.775	ng	96
34) Bis(2-ethylhexyl)phtha...	21.090	149	445	0.059	ng	# 93

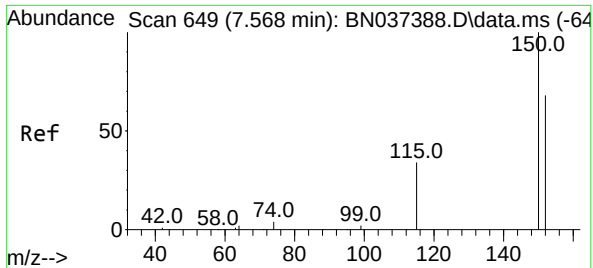
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062725\
Data File : BN037419.D
Acq On : 27 Jun 2025 11:21
Operator : RC/JU
Sample : Q2345-13DL 2X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250617DL

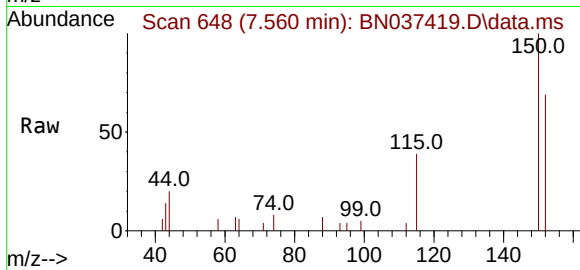
Quant Time: Jun 27 12:17:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration



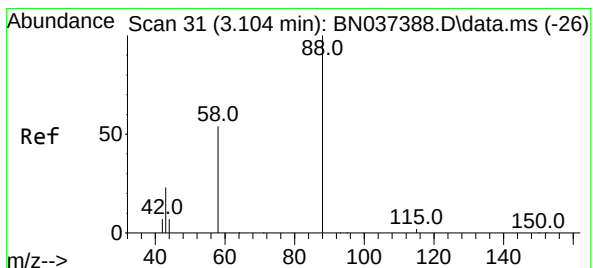
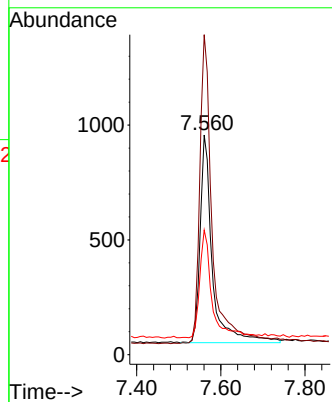
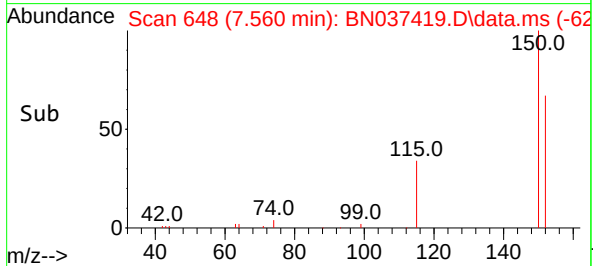


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN037419.D
Acq: 27 Jun 2025 11:21

Instrument :
BNA_N
ClientSampleId :
TT189D2-20250617DL

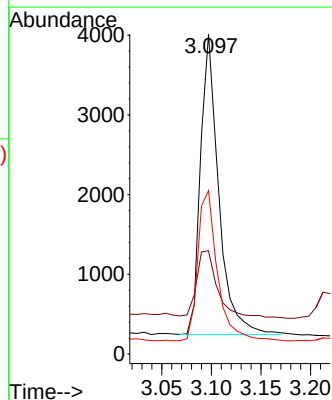
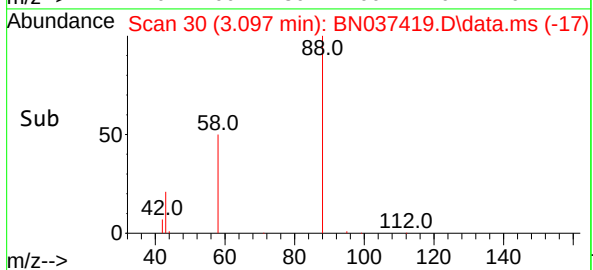
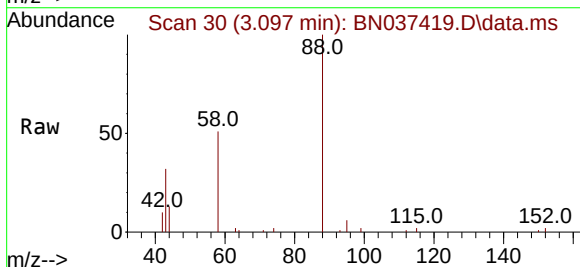


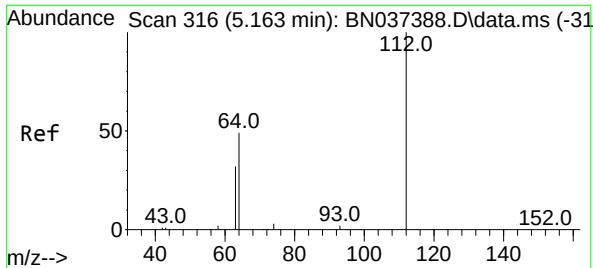
Tgt Ion:152 Resp: 1828
Ion Ratio Lower Upper
152 100
150 145.7 116.2 174.2
115 56.7 42.9 64.3



#2
1,4-Dioxane
Concen: 2.775 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037419.D
Acq: 27 Jun 2025 11:21

Tgt Ion: 88 Resp: 4810
Ion Ratio Lower Upper
88 100
43 25.5 21.6 32.4
58 53.7 45.9 68.9

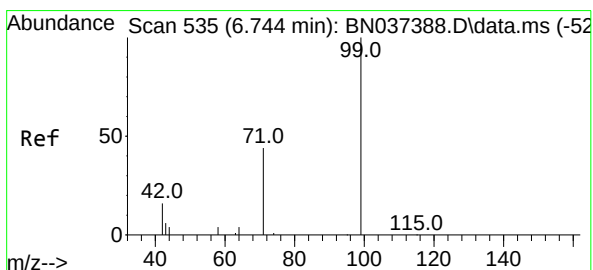
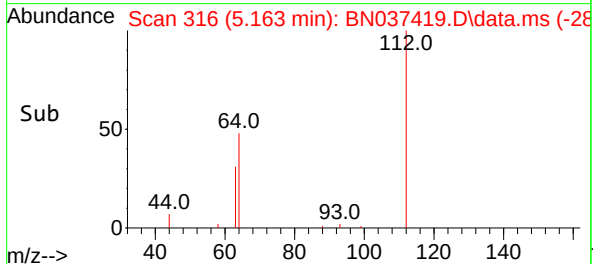
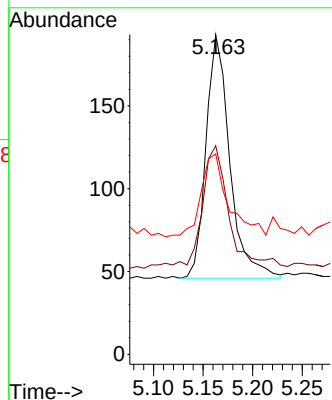
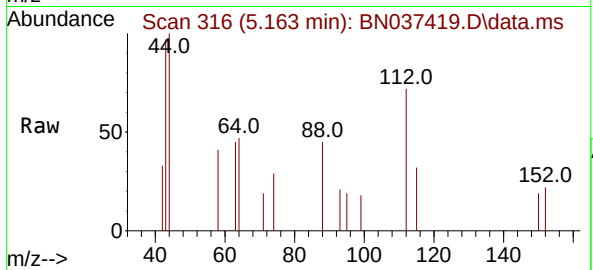




#4
2-Fluorophenol
Concen: 0.070 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037419.D
Acq: 27 Jun 2025 11:21

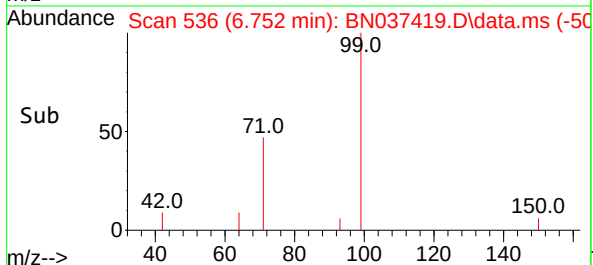
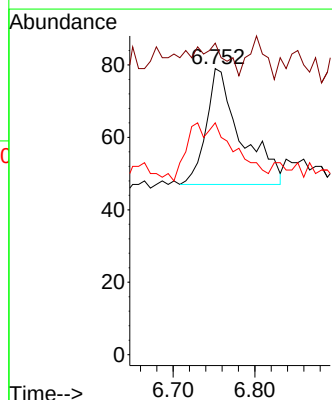
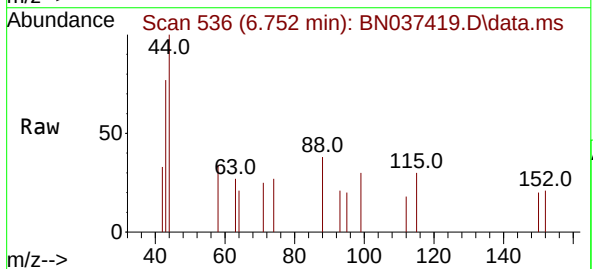
Instrument :
BNA_N
ClientSampleId :
TT189D2-20250617DL

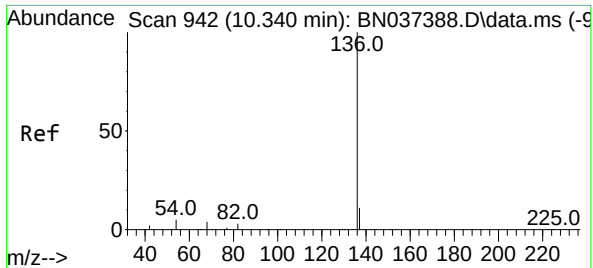
Tgt Ion:112 Resp: 246
Ion Ratio Lower Upper
112 100
64 57.7 40.3 60.5
63 39.0 26.1 39.1



#5
Phenol-d6
Concen: 0.026 ng
RT: 6.752 min Scan# 536
Delta R.T. 0.007 min
Lab File: BN037419.D
Acq: 27 Jun 2025 11:21

Tgt Ion: 99 Resp: 94
Ion Ratio Lower Upper
99 100
42 0.0 15.6 23.4#
71 0.0 35.8 53.8#

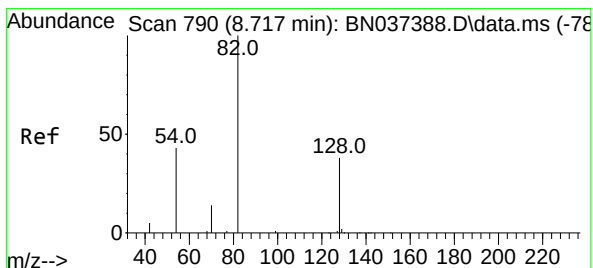
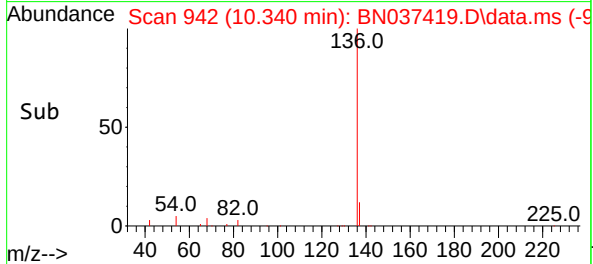
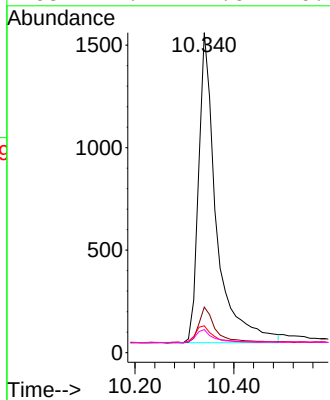
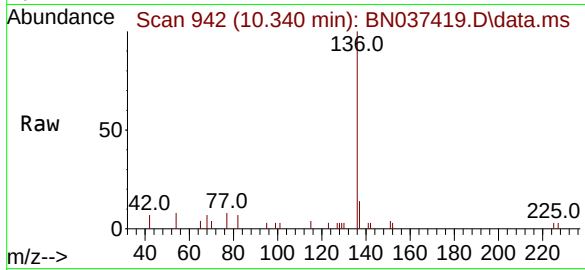




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.000 min
Lab File: BN037419.D
Acq: 27 Jun 2025 11:21

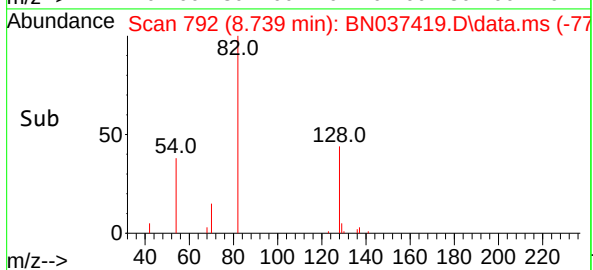
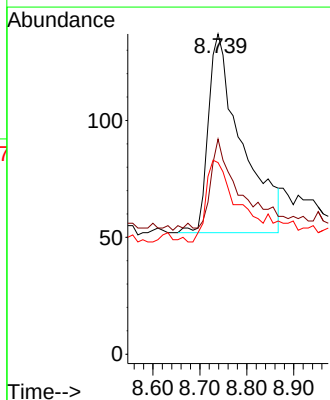
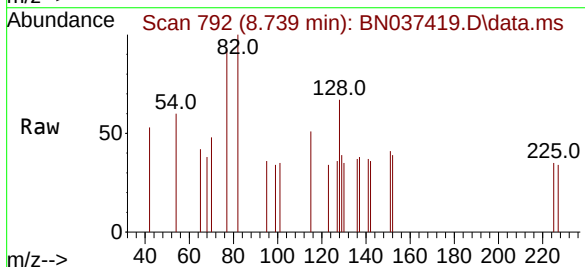
Instrument :
BNA_N
ClientSampleId :
TT189D2-20250617DL

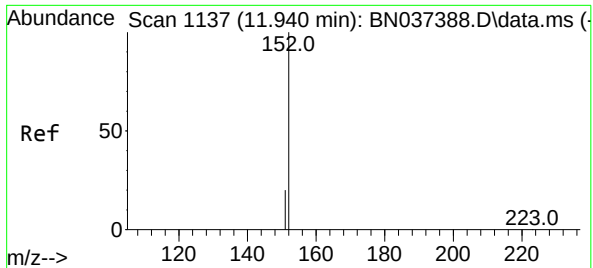
Tgt Ion:	136	Resp:	3778
Ion	Ratio	Lower	Upper
136	100		
137	14.2	10.4	15.6
54	8.4	5.6	8.4
68	7.2	4.6	6.8



#8
Nitrobenzene-d5
Concen: 0.138 ng
RT: 8.739 min Scan# 792
Delta R.T. 0.021 min
Lab File: BN037419.D
Acq: 27 Jun 2025 11:21

Tgt Ion:	82	Resp:	418
Ion	Ratio	Lower	Upper
82	100		
128	67.2	34.0	51.0
54	59.9	37.7	56.5

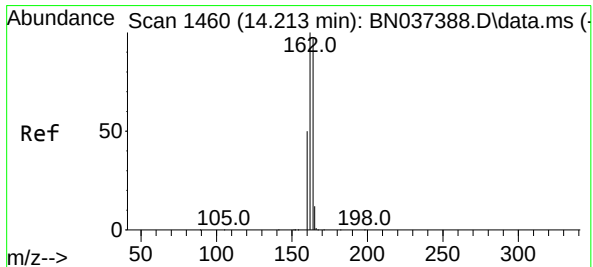
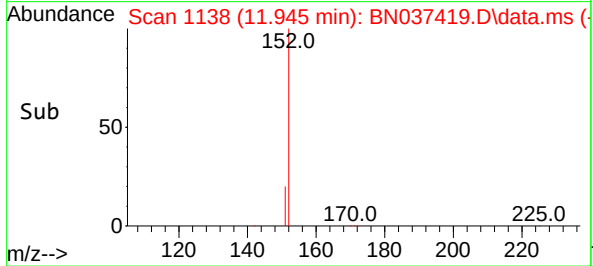
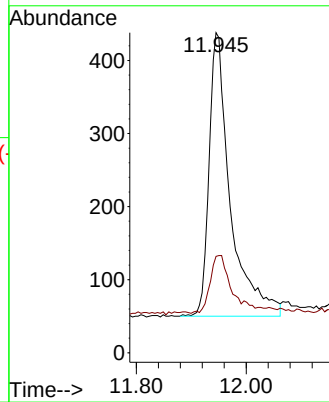
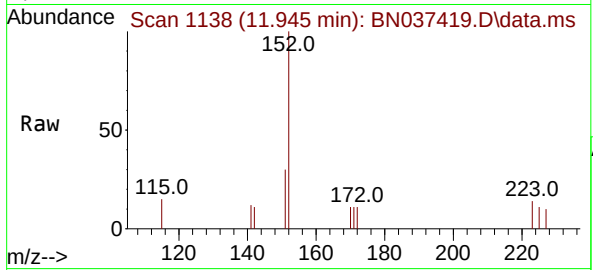




#11
2-Methylnaphthalene-d10
Concen: 0.178 ng
RT: 11.945 min Scan# 1138
Delta R.T. 0.005 min
Lab File: BN037419.D
Acq: 27 Jun 2025 11:21

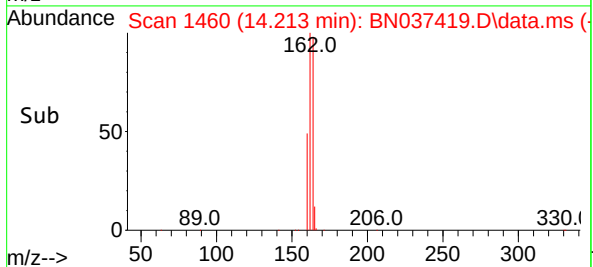
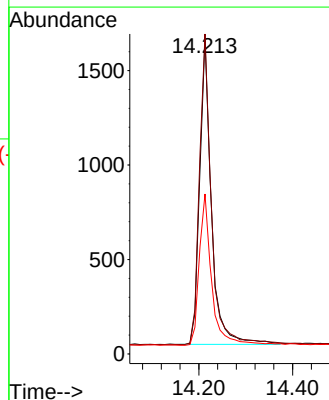
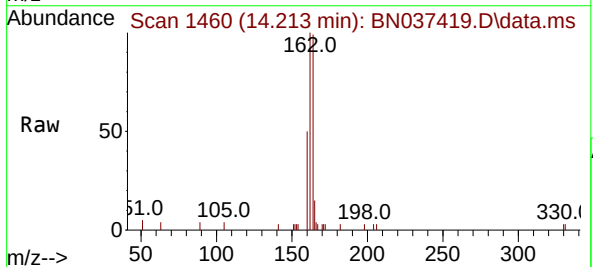
Instrument :
BNA_N
ClientSampleId :
TT189D2-20250617DL

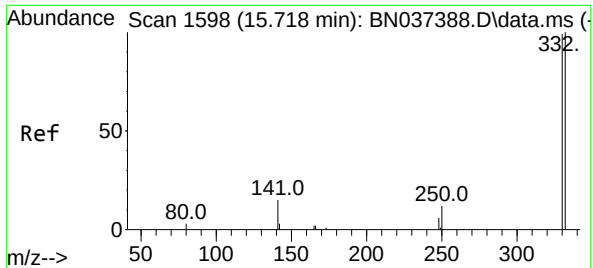
Tgt Ion:152 Resp: 1042
Ion Ratio Lower Upper
152 100
151 21.2 18.4 27.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037419.D
Acq: 27 Jun 2025 11:21

Tgt Ion:164 Resp: 2817
Ion Ratio Lower Upper
164 100
162 101.3 82.6 123.8
160 50.7 42.2 63.2

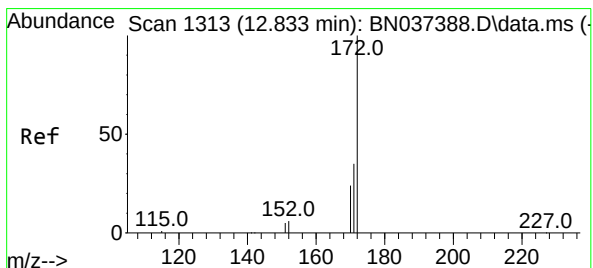
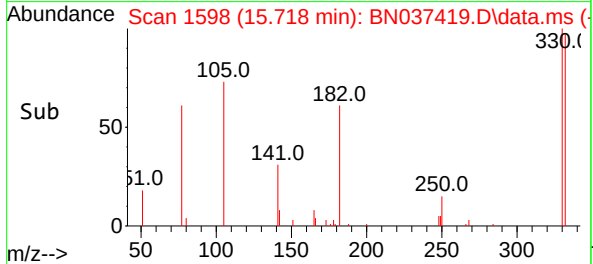
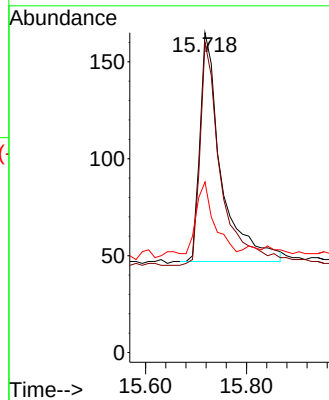
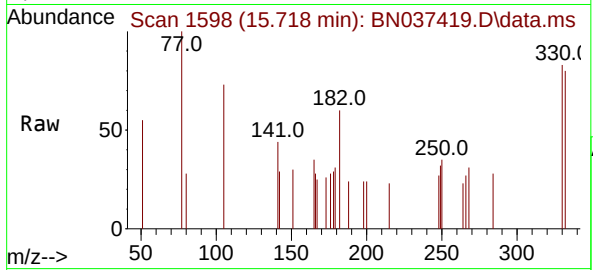




#14
2,4,6-Tribromophenol
Concen: 0.209 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037419.D
Acq: 27 Jun 2025 11:21

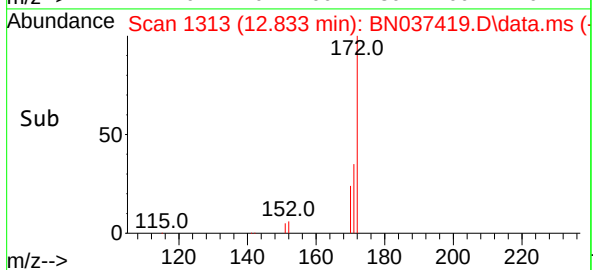
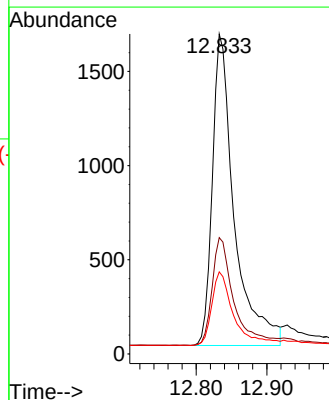
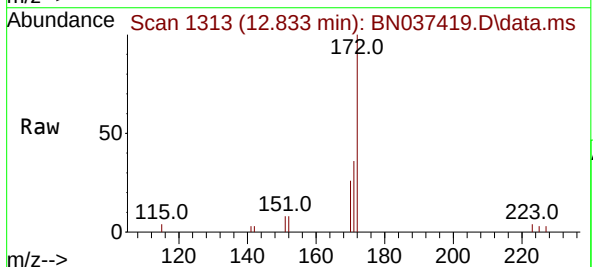
Instrument :
BNA_N
ClientSampleId :
TT189D2-20250617DL

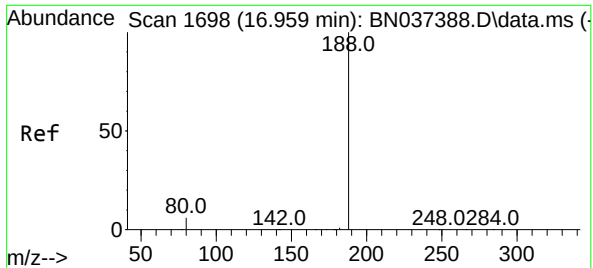
Tgt Ion:330 Resp: 346
Ion Ratio Lower Upper
330 100
332 96.0 77.8 116.8
141 31.8 24.0 36.0



#15
2-Fluorobiphenyl
Concen: 0.292 ng
RT: 12.833 min Scan# 1313
Delta R.T. -0.000 min
Lab File: BN037419.D
Acq: 27 Jun 2025 11:21

Tgt Ion:172 Resp: 3557
Ion Ratio Lower Upper
172 100
171 36.4 28.8 43.2
170 25.7 20.3 30.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.012 min

Lab File: BN037419.D

Acq: 27 Jun 2025 11:21

Instrument :

BNA_N

ClientSampleId :

TT189D2-20250617DL

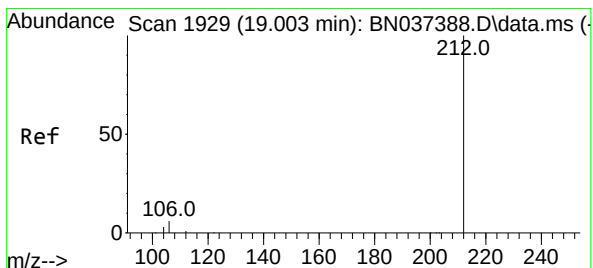
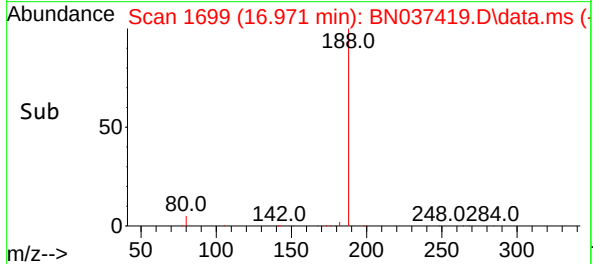
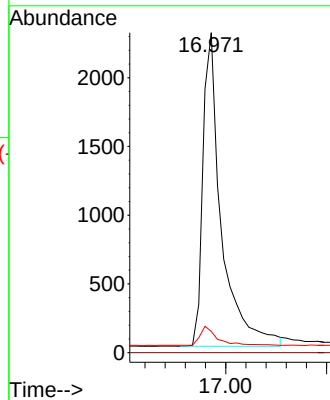
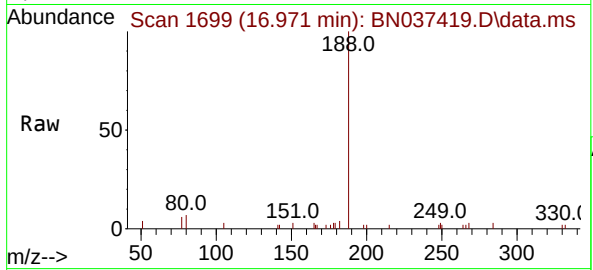
Tgt Ion:188 Resp: 5807

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.7 6.2 9.4



#27

Fluoranthene-d10

Concen: 0.223 ng

RT: 19.003 min Scan# 1929

Delta R.T. -0.000 min

Lab File: BN037419.D

Acq: 27 Jun 2025 11:21

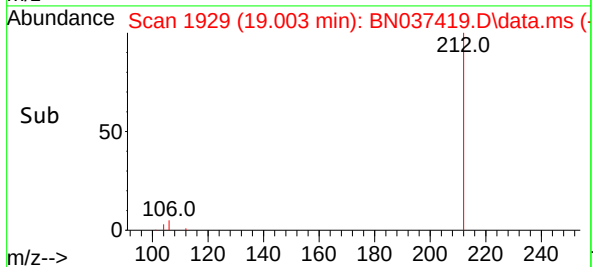
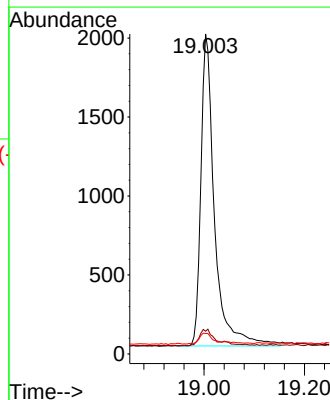
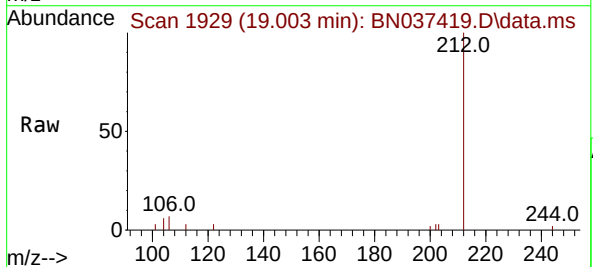
Tgt Ion:212 Resp: 3714

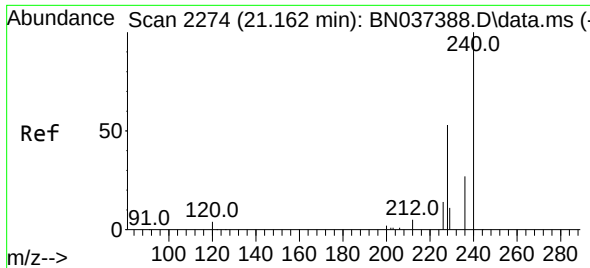
Ion Ratio Lower Upper

212 100

106 5.2 4.5 6.7

104 3.4 2.7 4.1

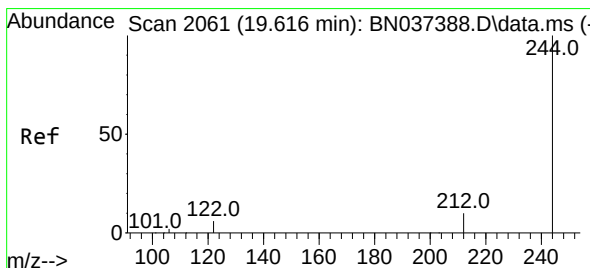
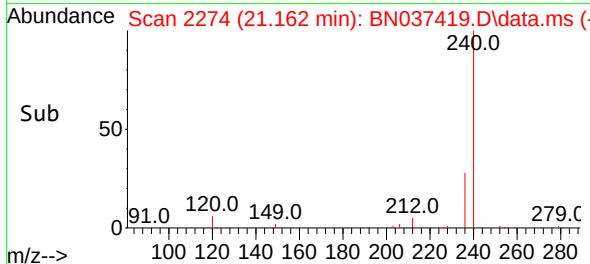
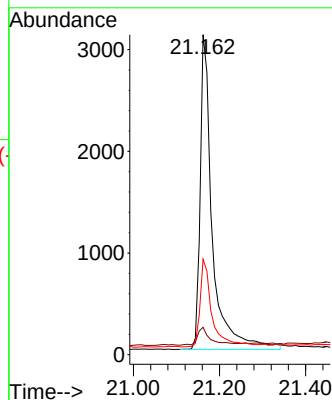
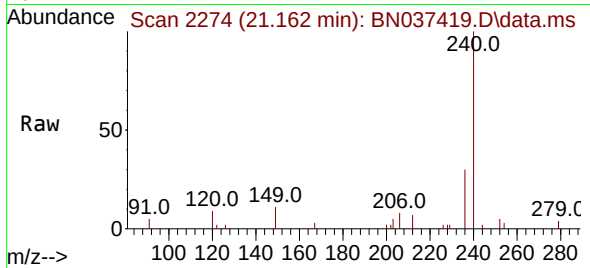




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037419.D
Acq: 27 Jun 2025 11:21

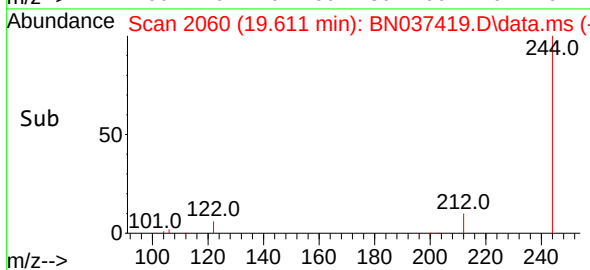
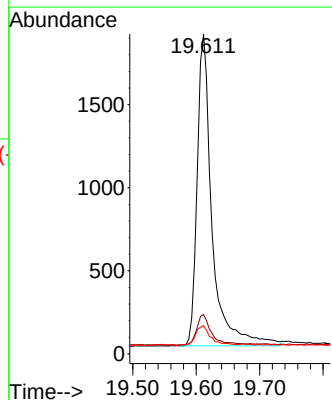
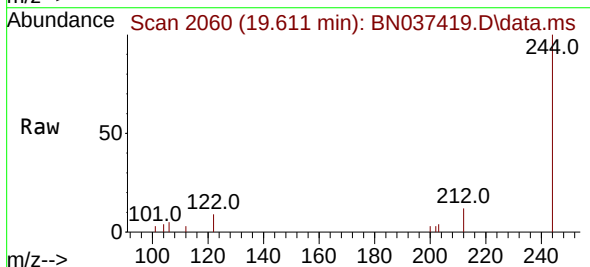
Instrument :
BNA_N
ClientSampleId :
TT189D2-20250617DL

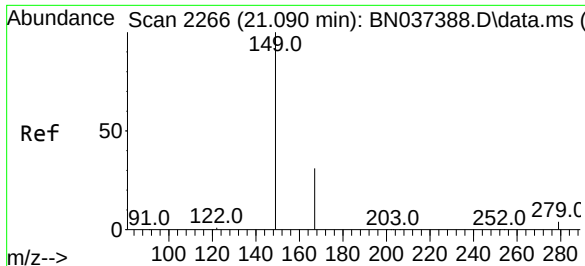
Tgt Ion	Ratio	Lower	Upper
240	100		
120	8.5	5.3	7.9#
236	29.9	22.7	34.1



#31
Terphenyl-d14
Concen: 0.235 ng
RT: 19.611 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN037419.D
Acq: 27 Jun 2025 11:21

Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.3	9.1	13.7
122	8.8	6.3	9.5

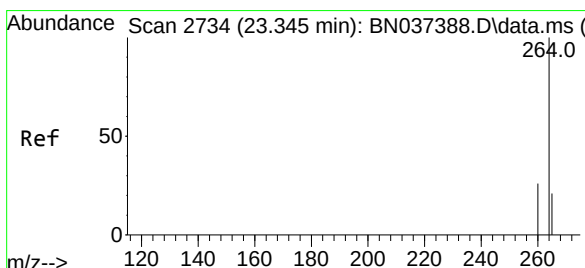
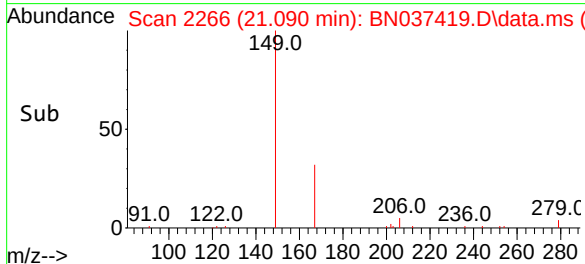
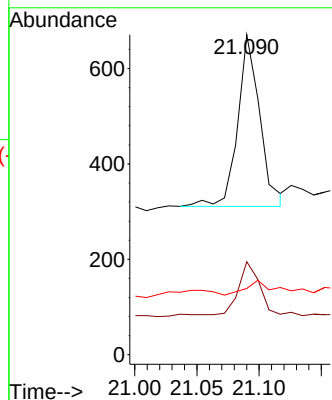
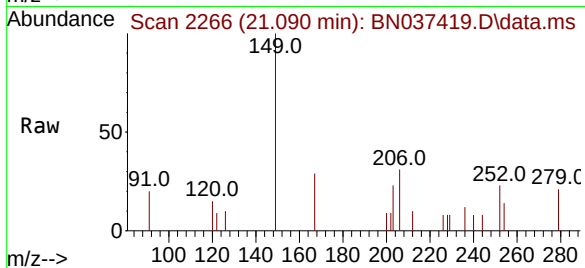




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.059 ng
RT: 21.090 min Scan# 2109
Delta R.T. -0.000 min
Lab File: BN037419.D
Acq: 27 Jun 2025 11:21

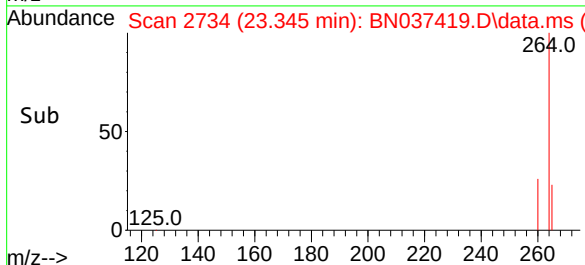
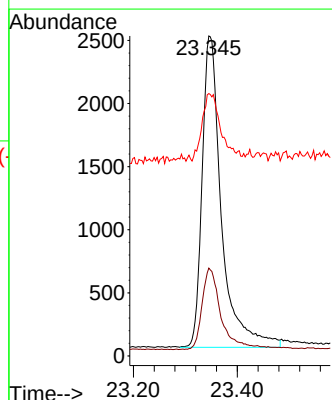
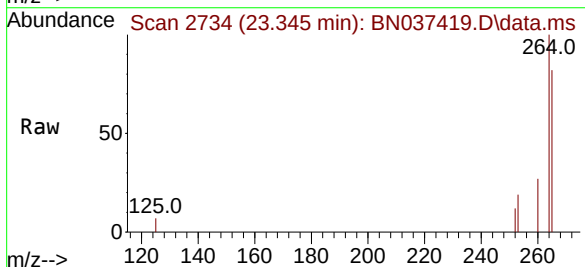
Instrument :
BNA_N
ClientSampleId :
TT189D2-20250617DL

Tgt Ion:149 Resp: 445
Ion Ratio Lower Upper
149 100
167 28.8 24.8 37.2
279 12.8 5.0 7.6#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.345 min Scan# 2734
Delta R.T. -0.000 min
Lab File: BN037419.D
Acq: 27 Jun 2025 11:21

Tgt Ion:264 Resp: 6394
Ion Ratio Lower Upper
264 100
260 27.5 21.4 32.0
265 82.0 56.2 84.4



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/17/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/17/25
Client Sample ID:	TT150S1-20250617	SDG No.:	Q2345
Lab Sample ID:	Q2345-14	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037397.D	1	06/20/25 09:32	06/26/25 17:18	PB168563

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.24		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.33		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.39		30 - 150		97%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		72%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.55	*	53 - 106		137%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.49		58 - 132		122%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1590		7.568			
1146-65-2	Naphthalene-d8	3610		10.34			
15067-26-2	Acenaphthene-d10	2490		14.213			
1517-22-2	Phenanthrene-d10	5000		16.971			
1719-03-5	Chrysene-d12	4480		21.162			
1520-96-3	Perylene-d12	4560		23.345			

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\BN062625\
Data File : BN037397.D
Acq On : 26 Jun 2025 17:18
Operator : RC/JU
Sample : Q2345-14
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT150S1-20250617

Quant Time: Jun 26 17:46:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

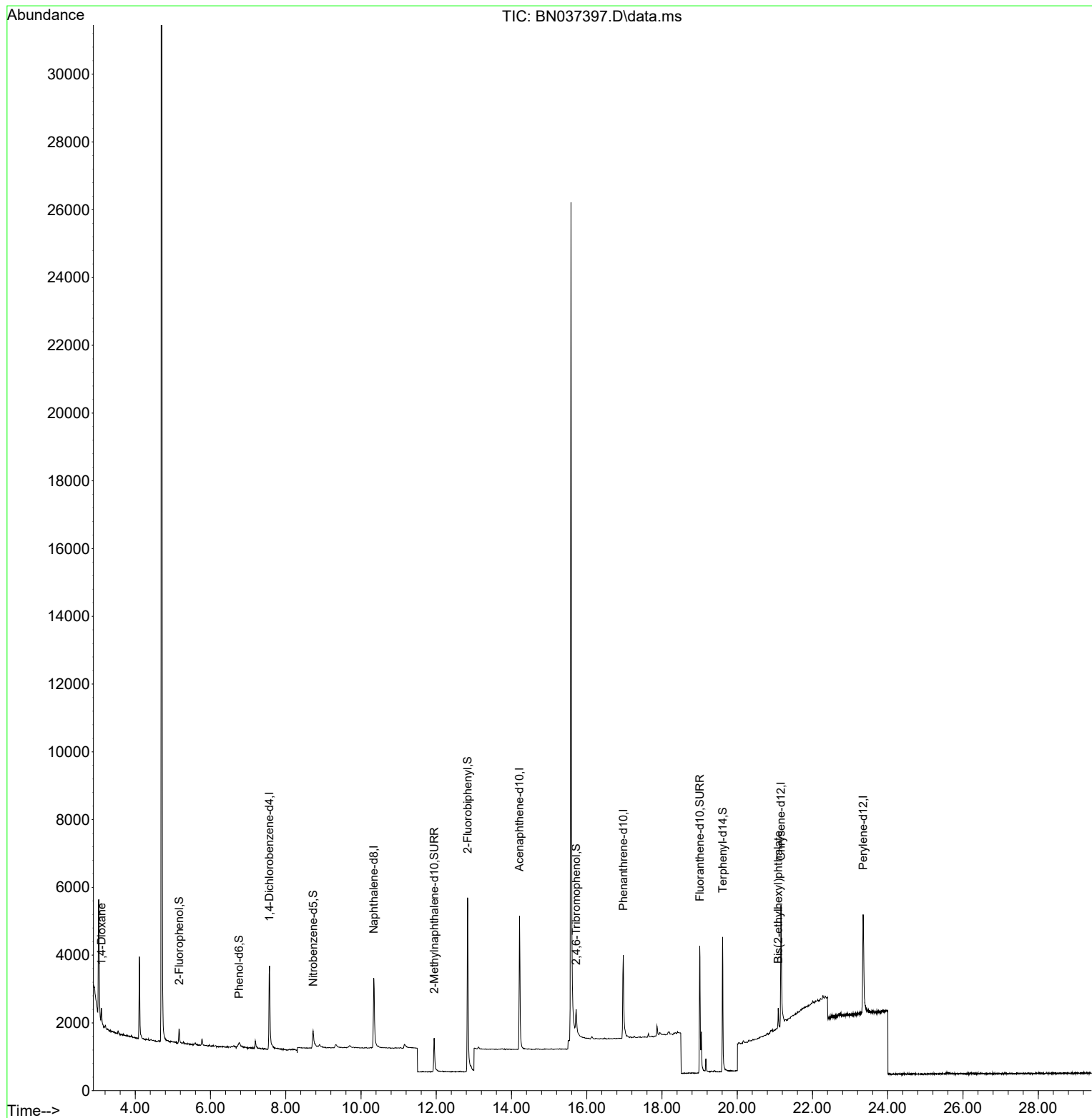
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1586	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	3605	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2491	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	4999	0.400	ng	0.01
29) Chrysene-d12	21.162	240	4478	0.400	ng	# 0.00
35) Perylene-d12	23.345	264	4562	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	381	0.125	ng	0.00
5) Phenol-d6	6.759	99	193	0.061	ng	0.01
8) Nitrobenzene-d5	8.728	82	835	0.289	ng	0.01
11) 2-Methylnaphthalene-d10	11.945	152	1819	0.326	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	582	0.398	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	5878	0.547	ng	0.00
27) Fluoranthene-d10	19.003	212	5568	0.389	ng	0.00
31) Terphenyl-d14	19.611	244	4672	0.489	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	361	0.240	ng	# 66
34) Bis(2-ethylhexyl)phtha...	21.090	149	479	0.086	ng	# 95

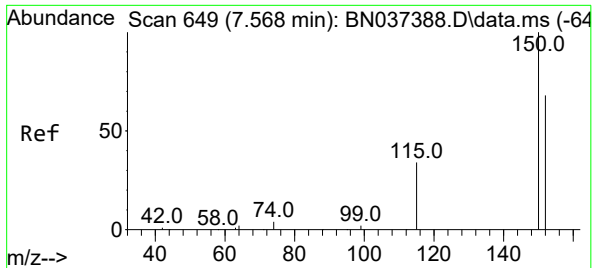
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037397.D
Acq On : 26 Jun 2025 17:18
Operator : RC/JU
Sample : Q2345-14
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT150S1-20250617

Quant Time: Jun 26 17:46:03 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

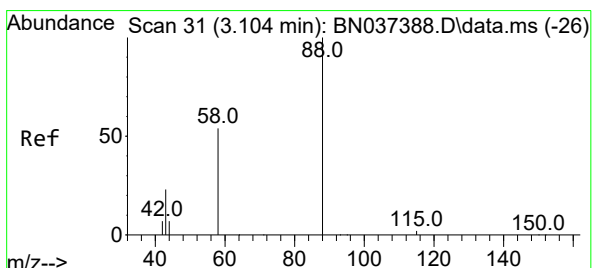
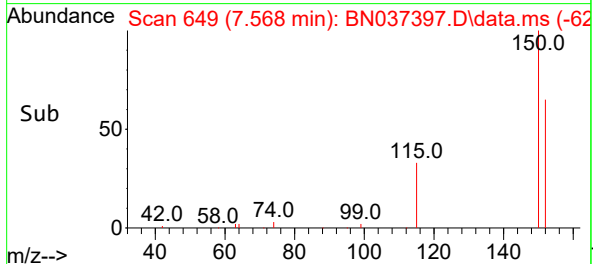
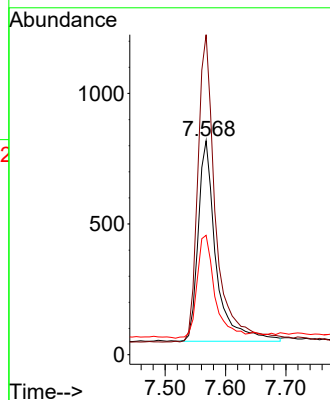
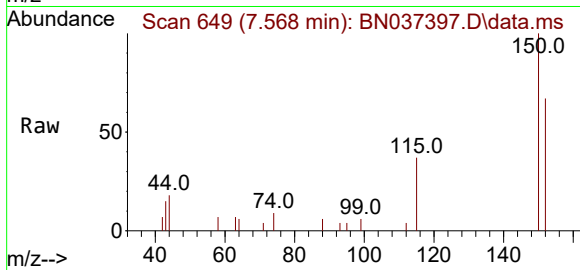




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN037397.D
Acq: 26 Jun 2025 17:18

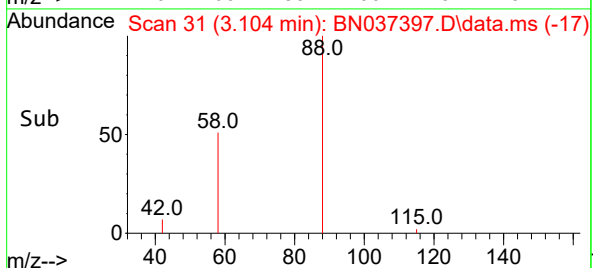
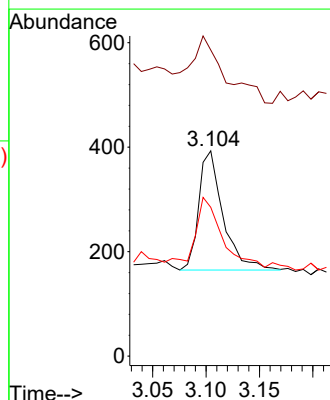
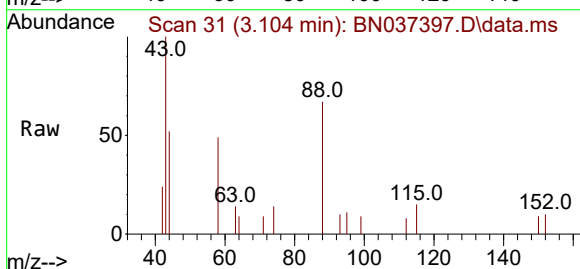
Instrument :
BNA_N
ClientSampleId :
TT150S1-20250617

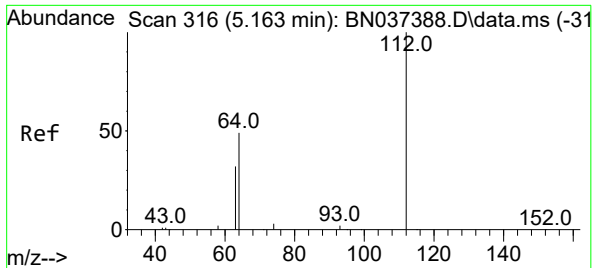
Tgt Ion:152 Resp: 1586
Ion Ratio Lower Upper
152 100
150 149.6 116.2 174.2
115 55.8 42.9 64.3



#2
1,4-Dioxane
Concen: 0.240 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037397.D
Acq: 26 Jun 2025 17:18

Tgt Ion: 88 Resp: 361
Ion Ratio Lower Upper
88 100
43 77.0 21.6 32.4#
58 60.7 45.9 68.9

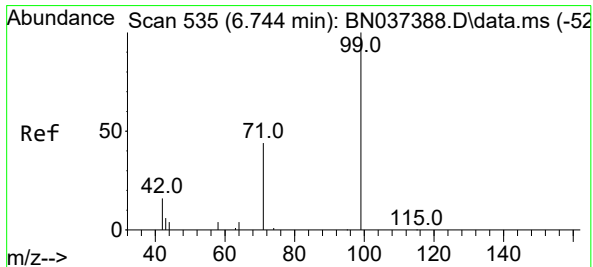
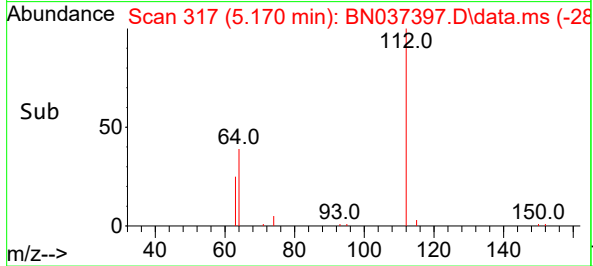
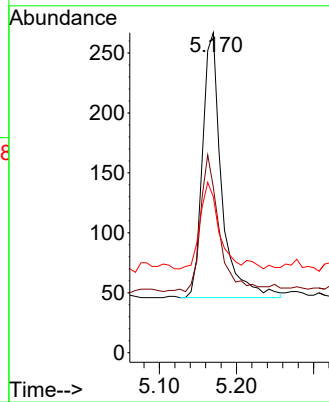
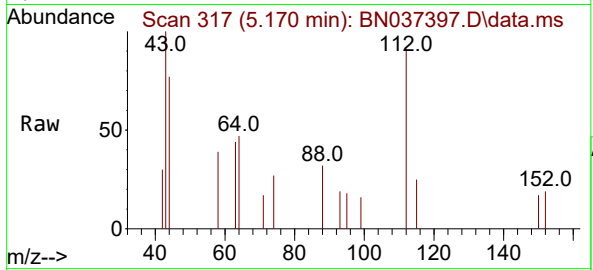




#4
2-Fluorophenol
Concen: 0.125 ng
RT: 5.170 min Scan# 316
Delta R.T. 0.007 min
Lab File: BN037397.D
Acq: 26 Jun 2025 17:18

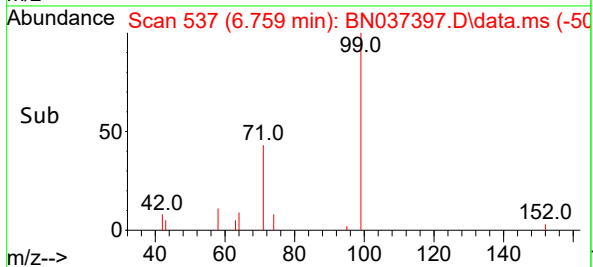
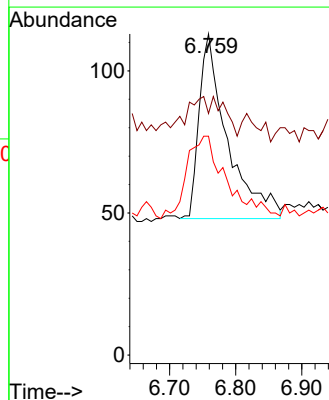
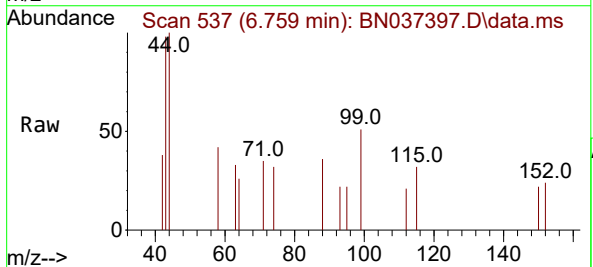
Instrument :
BNA_N
ClientSampleId :
TT150S1-20250617

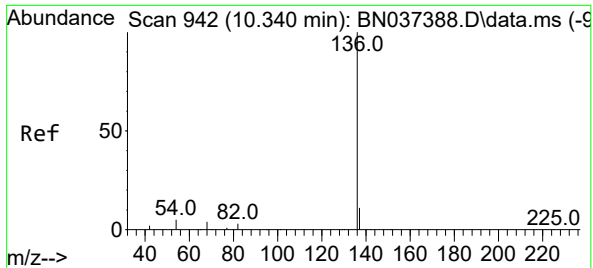
Tgt Ion:112 Resp: 381
Ion Ratio Lower Upper
112 100
64 50.7 40.3 60.5
63 31.5 26.1 39.1



#5
Phenol-d6
Concen: 0.061 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.014 min
Lab File: BN037397.D
Acq: 26 Jun 2025 17:18

Tgt Ion: 99 Resp: 193
Ion Ratio Lower Upper
99 100
42 14.5 15.6 23.4#
71 57.5 35.8 53.8#

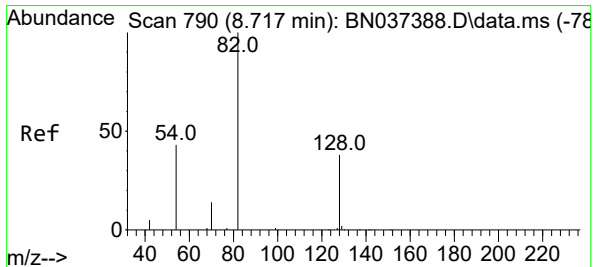
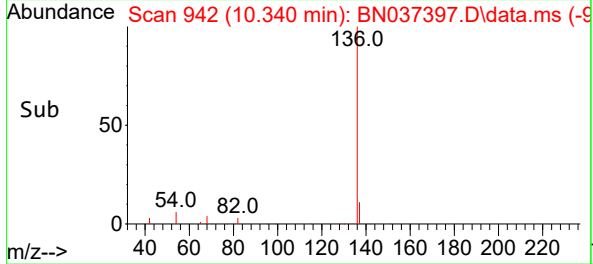
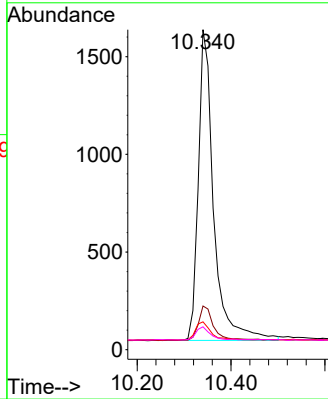
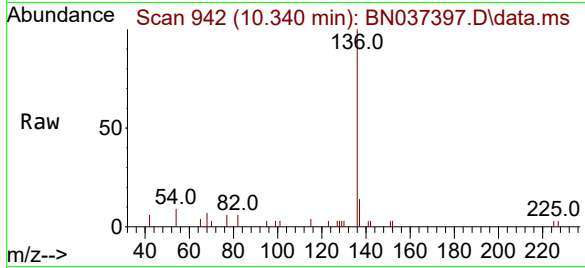




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.000 min
Lab File: BN037397.D
Acq: 26 Jun 2025 17:18

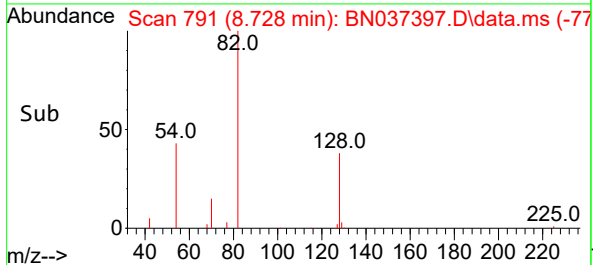
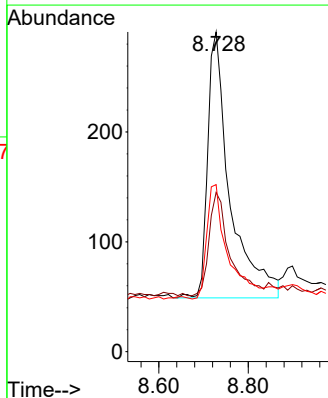
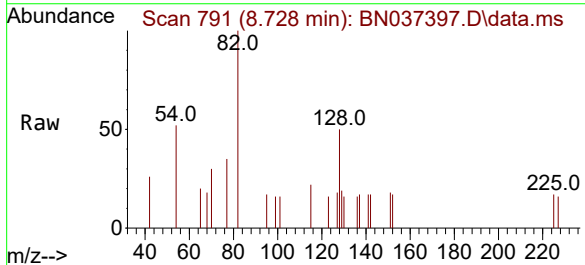
Instrument :
BNA_N
ClientSampleId :
TT150S1-20250617

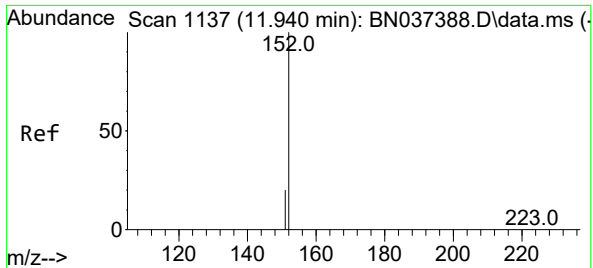
Tgt Ion:	136	Resp:	3605
Ion	Ratio	Lower	Upper
136	100		
137	13.7	10.4	15.6
54	8.7	5.6	8.4#
68	7.1	4.6	6.8#



#8
Nitrobenzene-d5
Concen: 0.289 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.011 min
Lab File: BN037397.D
Acq: 26 Jun 2025 17:18

Tgt Ion:	82	Resp:	835
Ion	Ratio	Lower	Upper
82	100		
128	49.8	34.0	51.0
54	52.2	37.7	56.5

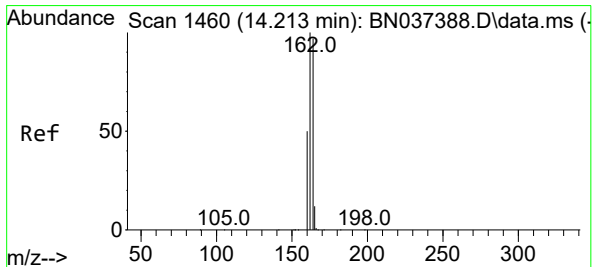
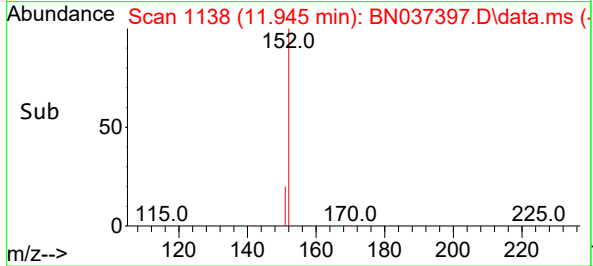
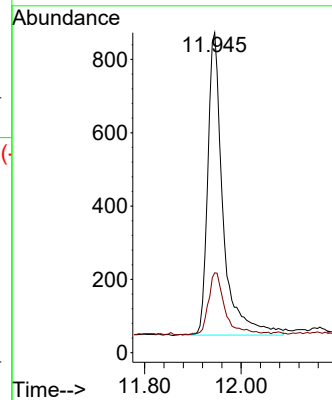
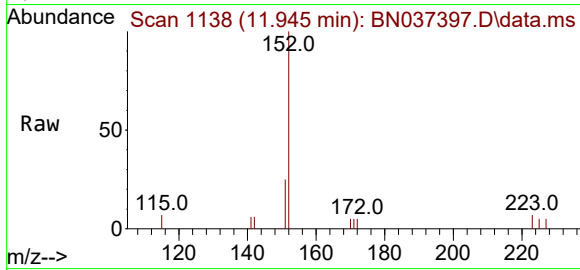




#11
2-Methylnaphthalene-d10
Concen: 0.326 ng
RT: 11.945 min Scan# 1137
Delta R.T. 0.005 min
Lab File: BN037397.D
Acq: 26 Jun 2025 17:18

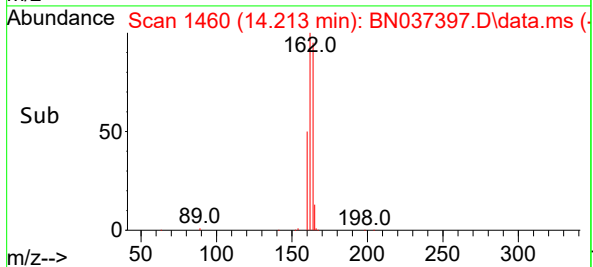
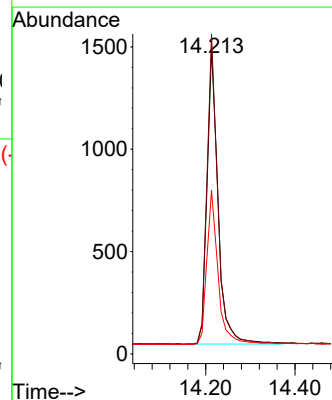
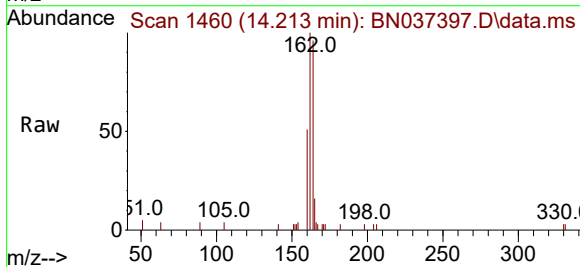
Instrument :
BNA_N
ClientSampleId :
TT150S1-20250617

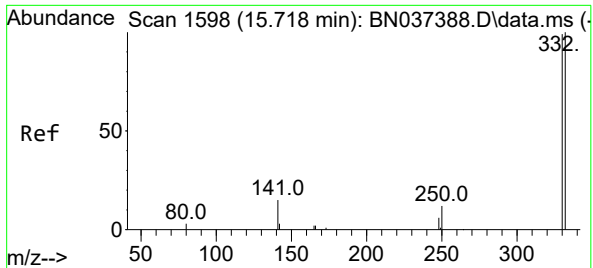
Tgt Ion:152 Resp: 1819
Ion Ratio Lower Upper
152 100
151 22.4 18.4 27.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037397.D
Acq: 26 Jun 2025 17:18

Tgt Ion:164 Resp: 2491
Ion Ratio Lower Upper
164 100
162 104.7 82.6 123.8
160 53.5 42.2 63.2

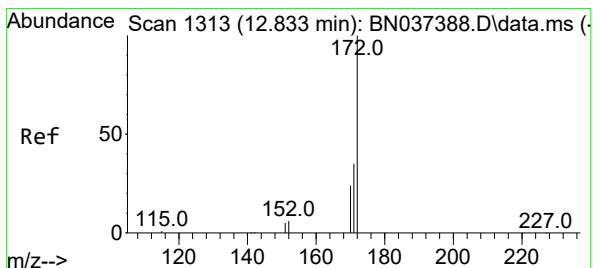
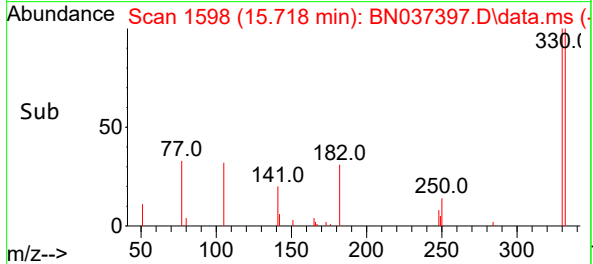
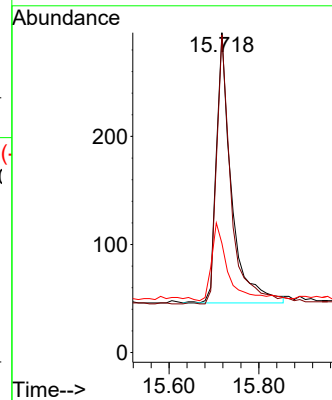
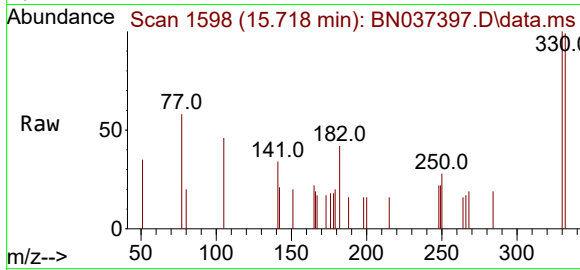




#14
2,4,6-Tribromophenol
Concen: 0.398 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037397.D
Acq: 26 Jun 2025 17:18

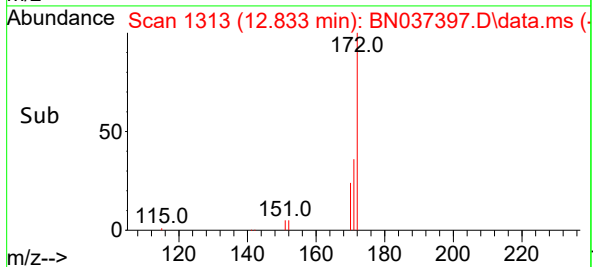
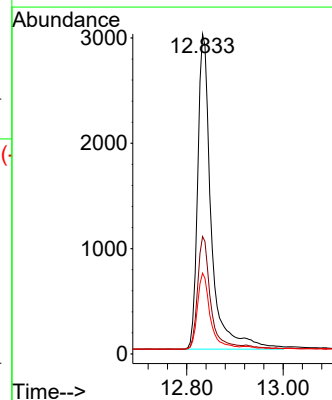
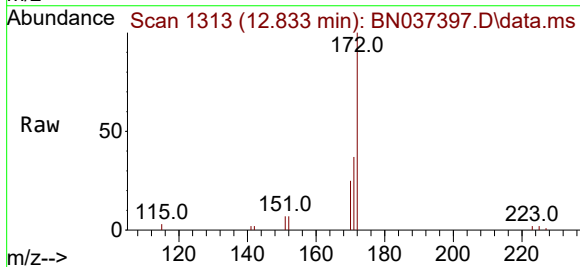
Instrument :
BNA_N
ClientSampleId :
TT150S1-20250617

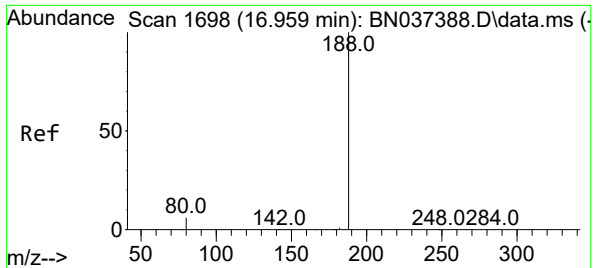
Tgt Ion:330 Resp: 582
Ion Ratio Lower Upper
330 100
332 96.9 77.8 116.8
141 32.3 24.0 36.0



#15
2-Fluorobiphenyl
Concen: 0.547 ng
RT: 12.833 min Scan# 1313
Delta R.T. -0.000 min
Lab File: BN037397.D
Acq: 26 Jun 2025 17:18

Tgt Ion:172 Resp: 5878
Ion Ratio Lower Upper
172 100
171 36.7 28.8 43.2
170 25.3 20.3 30.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.012 min

Lab File: BN037397.D

Acq: 26 Jun 2025 17:18

Instrument :

BNA_N

ClientSampleId :

TT150S1-20250617

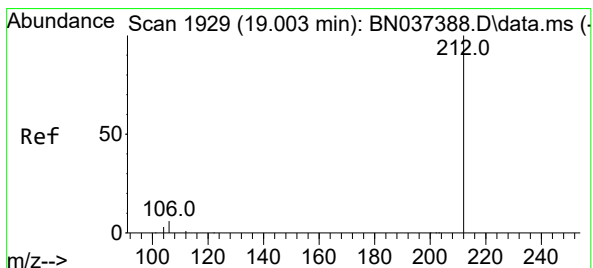
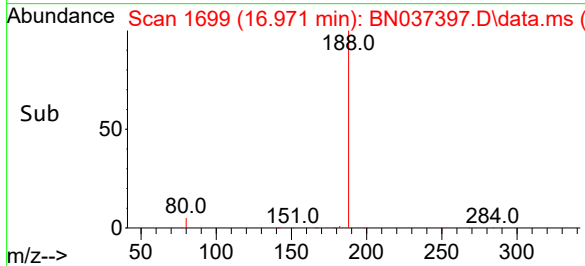
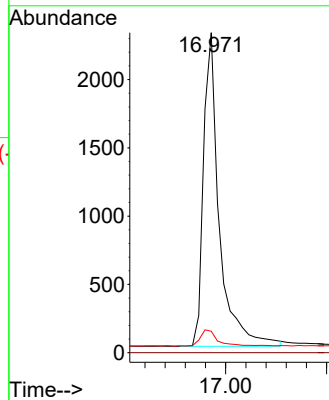
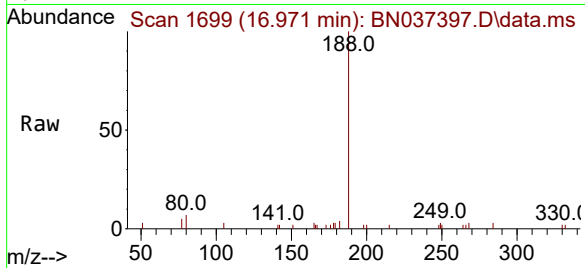
Tgt Ion:188 Resp: 4999

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.7 6.2 9.4



#27

Fluoranthene-d10

Concen: 0.389 ng

RT: 19.003 min Scan# 1929

Delta R.T. -0.000 min

Lab File: BN037397.D

Acq: 26 Jun 2025 17:18

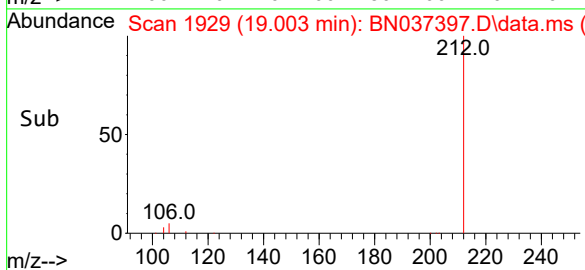
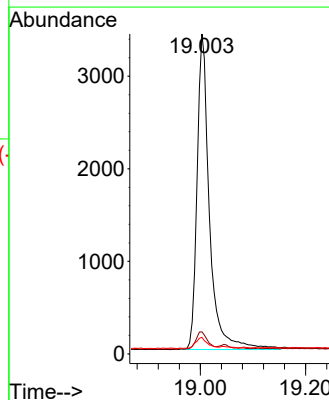
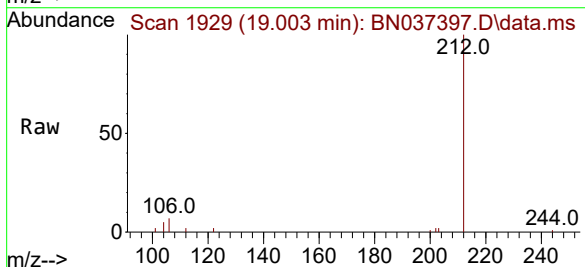
Tgt Ion:212 Resp: 5568

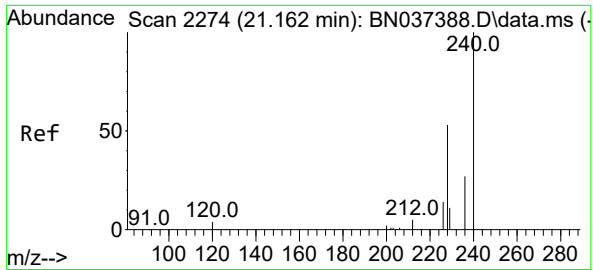
Ion Ratio Lower Upper

212 100

106 5.2 4.5 6.7

104 3.2 2.7 4.1





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037397.D

Acq: 26 Jun 2025 17:18

Instrument :

BNA_N

ClientSampleId :

TT150S1-20250617

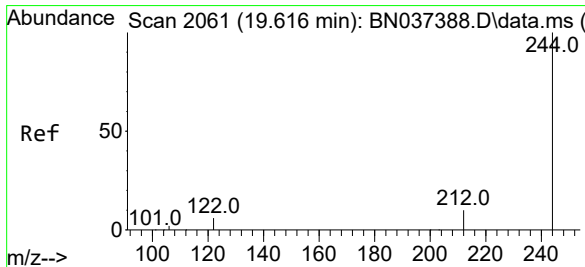
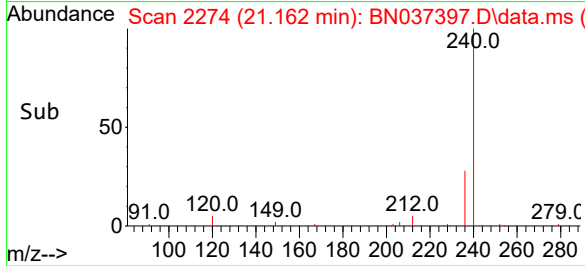
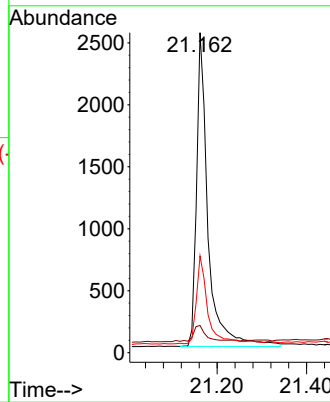
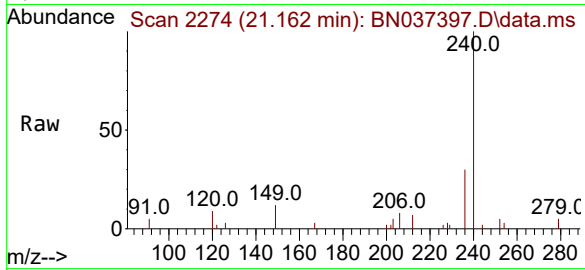
Tgt Ion:240 Resp: 4478

Ion Ratio Lower Upper

240 100

120 8.5 5.3 7.9#

236 30.3 22.7 34.1



#31

Terphenyl-d14

Concen: 0.489 ng

RT: 19.611 min Scan# 2060

Delta R.T. -0.005 min

Lab File: BN037397.D

Acq: 26 Jun 2025 17:18

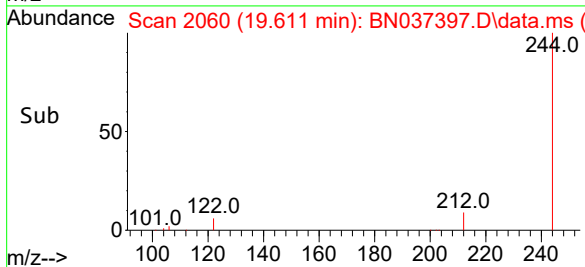
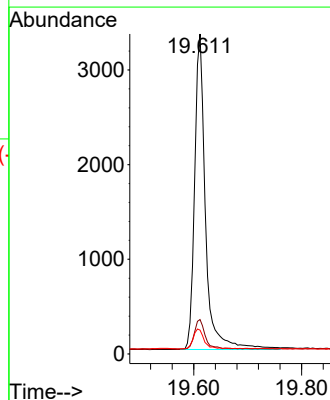
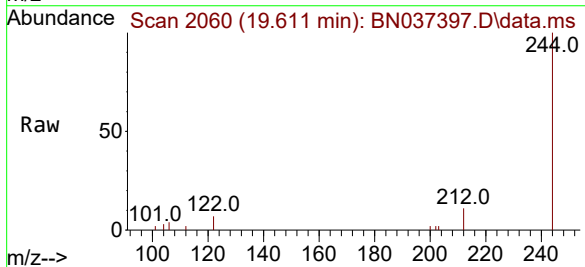
Tgt Ion:244 Resp: 4672

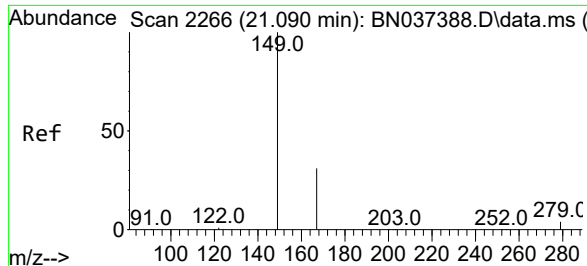
Ion Ratio Lower Upper

244 100

212 10.8 9.1 13.7

122 7.5 6.3 9.5





#34

Bis(2-ethylhexyl)phthalate

Concen: 0.086 ng

RT: 21.090 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037397.D

Acq: 26 Jun 2025 17:18

Instrument :

BNA_N

ClientSampleId :

TT150S1-20250617

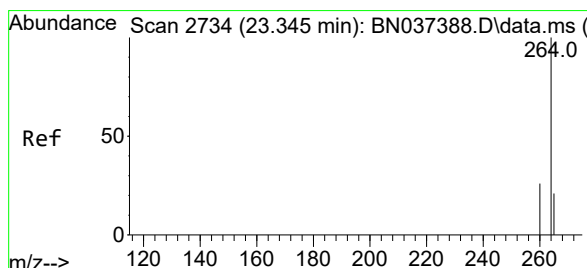
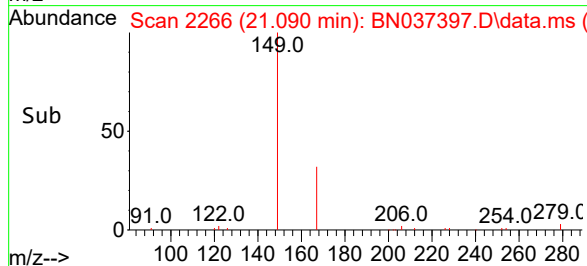
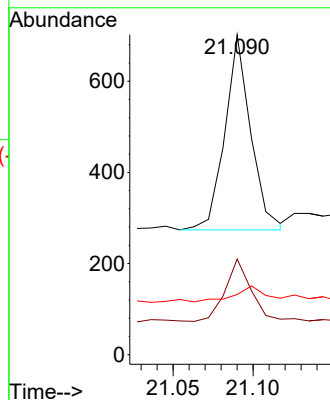
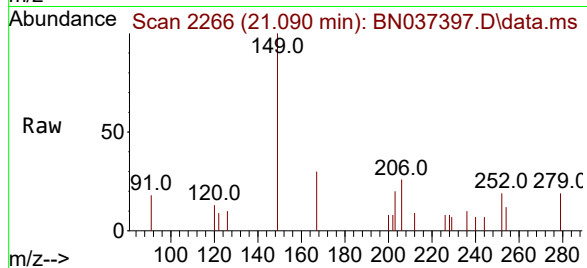
Tgt Ion:149 Resp: 479

Ion Ratio Lower Upper

149 100

167 32.8 24.8 37.2

279 11.3 5.0 7.6#



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.345 min Scan# 2734

Delta R.T. -0.000 min

Lab File: BN037397.D

Acq: 26 Jun 2025 17:18

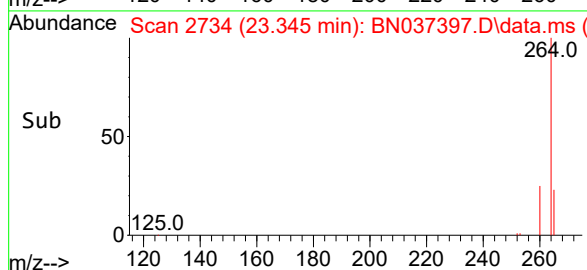
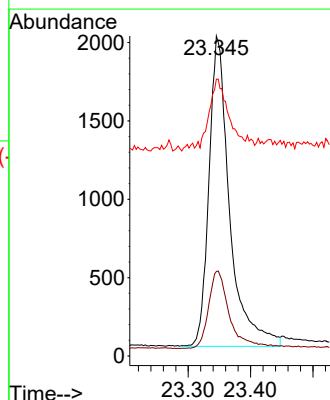
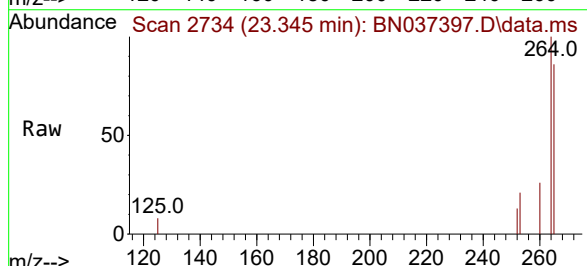
Tgt Ion:264 Resp: 4562

Ion Ratio Lower Upper

264 100

260 26.4 21.4 32.0

265 86.5 56.2 84.4#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/17/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/17/25
Client Sample ID:	RW8-MW01D1-20250617	SDG No.:	Q2345
Lab Sample ID:	Q2345-15	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037398.D	1	06/20/25 09:32	06/26/25 17:54	PB168563

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.23		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.36		30 - 150		90%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.40		30 - 150		100%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.34		55 - 111		84%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.68	*	53 - 106		170%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.48		58 - 132		120%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1640	7.568				
1146-65-2	Naphthalene-d8	3480	10.34				
15067-26-2	Acenaphthene-d10	2380	14.213				
1517-22-2	Phenanthrene-d10	4640	16.971				
1719-03-5	Chrysene-d12	4430	21.162				
1520-96-3	Perylene-d12	4450	23.348				

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\BN062625\
Data File : BN037398.D
Acq On : 26 Jun 2025 17:54
Operator : RC/JU
Sample : Q2345-15
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250617

Quant Time: Jun 26 18:39:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

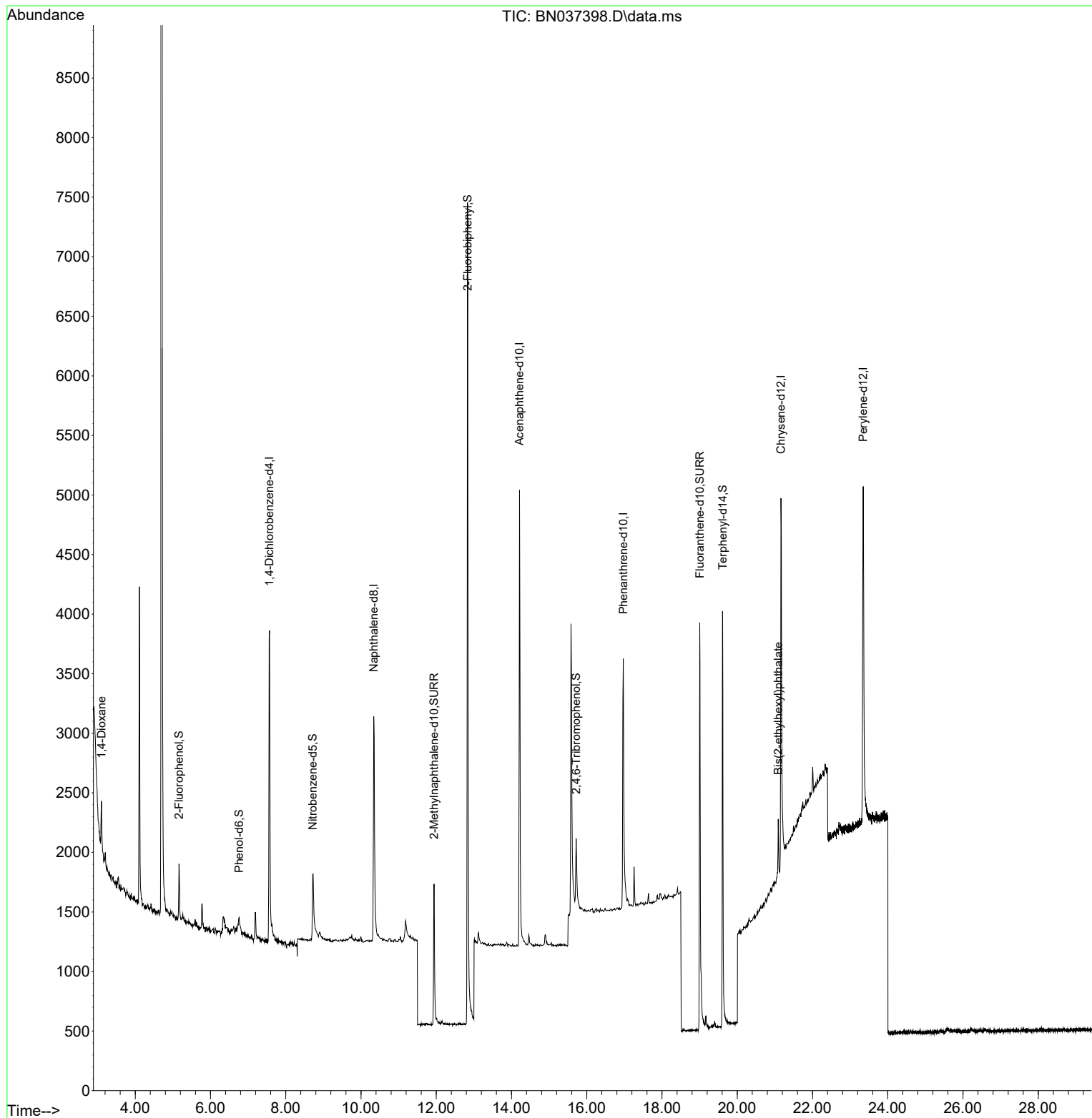
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1638	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	3476	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2375	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	4640	0.400	ng	0.01
29) Chrysene-d12	21.162	240	4434	0.400	ng	# 0.00
35) Perylene-d12	23.348	264	4454	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	412	0.131	ng	0.00
5) Phenol-d6	6.759	99	221	0.068	ng	0.01
8) Nitrobenzene-d5	8.717	82	940	0.337	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	1933	0.359	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	502	0.360	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	6992	0.682	ng	0.00
27) Fluoranthene-d10	19.003	212	5322	0.400	ng	0.00
31) Terphenyl-d14	19.611	244	4554	0.482	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	364	0.234	ng	# 70
34) Bis(2-ethylhexyl)phtha...	21.090	149	488	0.088	ng	# 89

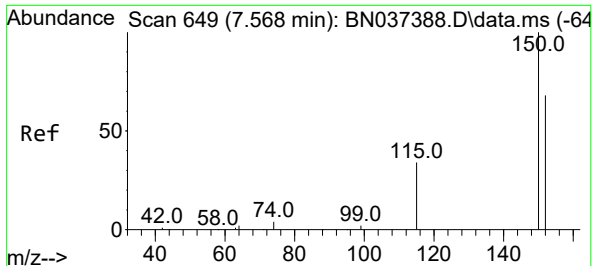
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037398.D
Acq On : 26 Jun 2025 17:54
Operator : RC/JU
Sample : Q2345-15
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250617

Quant Time: Jun 26 18:39:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

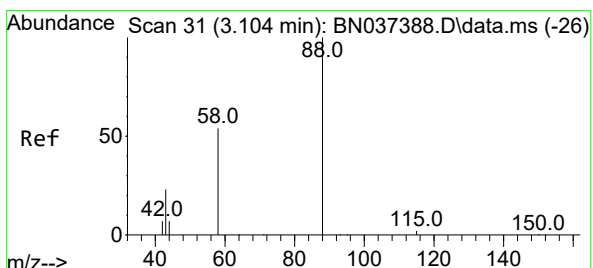
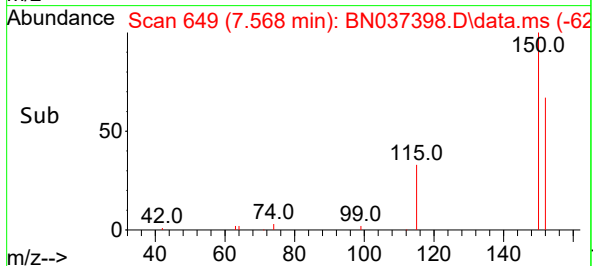
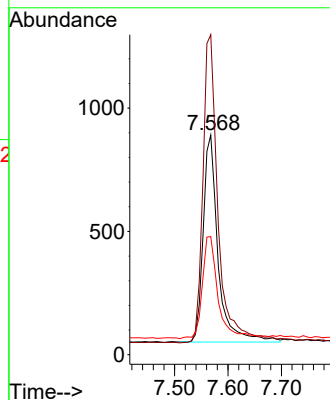
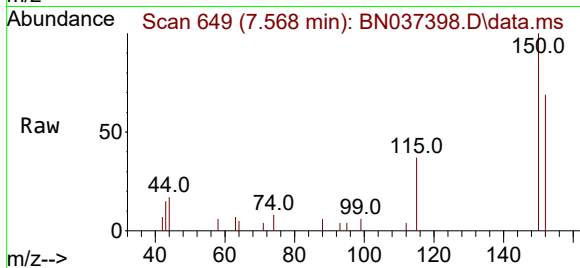




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037398.D
Acq: 26 Jun 2025 17:54

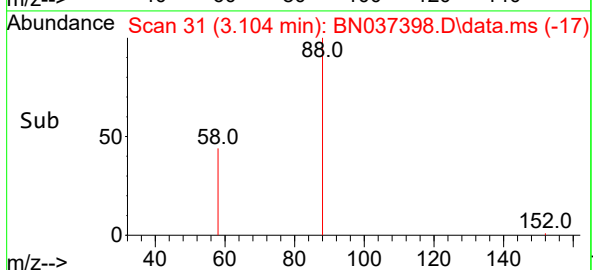
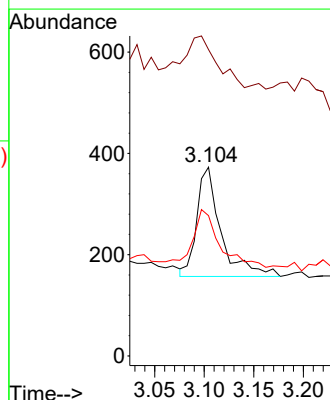
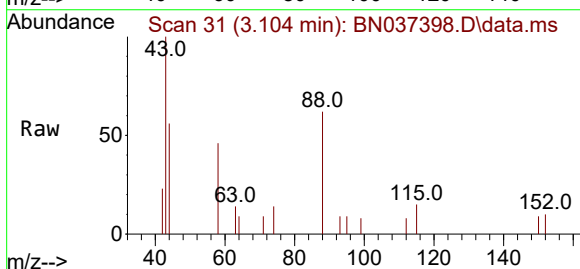
Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250617

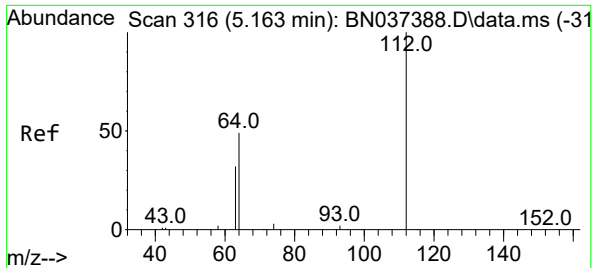
Tgt Ion:152 Resp: 1638
Ion Ratio Lower Upper
152 100
150 145.7 116.2 174.2
115 53.8 42.9 64.3



#2
1,4-Dioxane
Concen: 0.234 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037398.D
Acq: 26 Jun 2025 17:54

Tgt Ion: 88 Resp: 364
Ion Ratio Lower Upper
88 100
43 73.6 21.6 32.4#
58 56.3 45.9 68.9

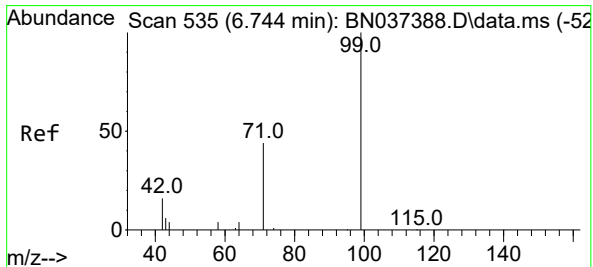
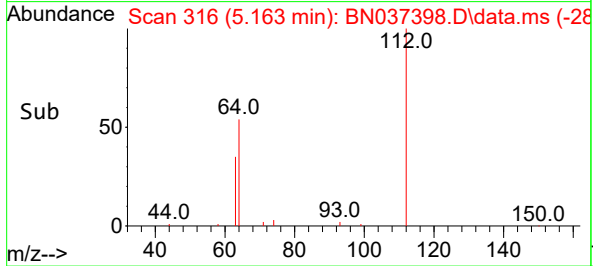
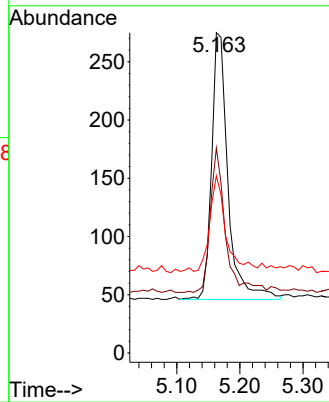
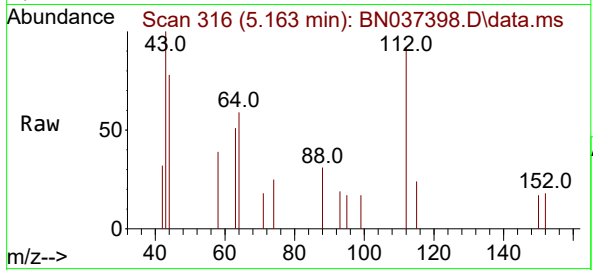




#4
2-Fluorophenol
Concen: 0.131 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037398.D
Acq: 26 Jun 2025 17:54

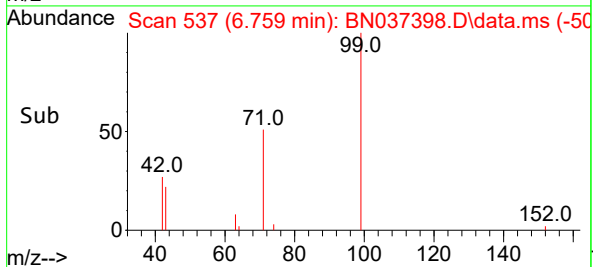
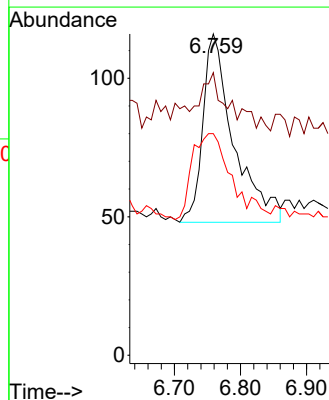
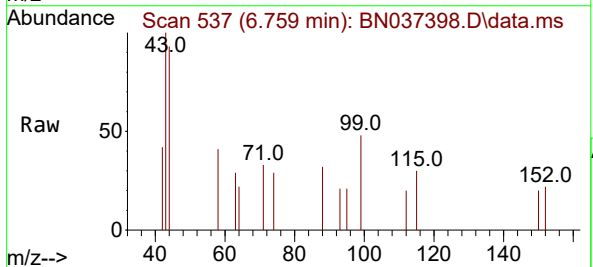
Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250617

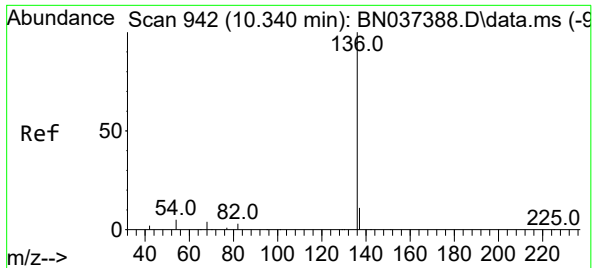
Tgt Ion:	112	Resp:	412
Ion	Ratio	Lower	Upper
112	100		
64	49.8	40.3	60.5
63	37.4	26.1	39.1



#5
Phenol-d6
Concen: 0.068 ng
RT: 6.759 min Scan# 537
Delta R.T. 0.014 min
Lab File: BN037398.D
Acq: 26 Jun 2025 17:54

Tgt Ion:	99	Resp:	221
Ion	Ratio	Lower	Upper
99	100		
42	16.3	15.6	23.4
71	53.4	35.8	53.8

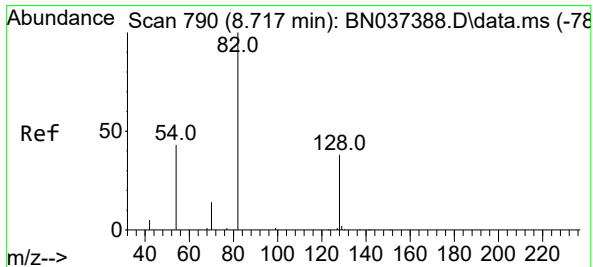
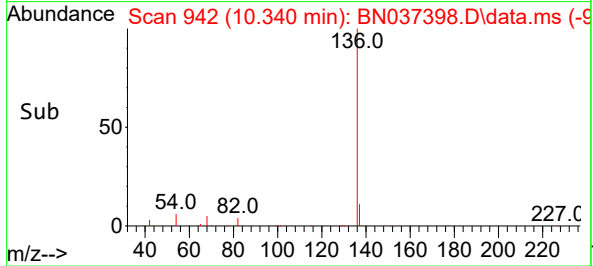
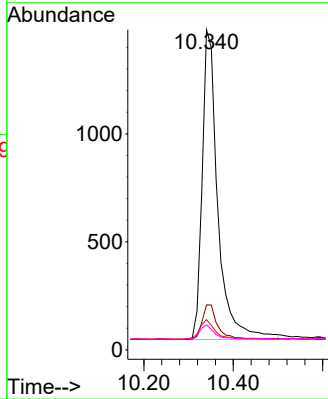
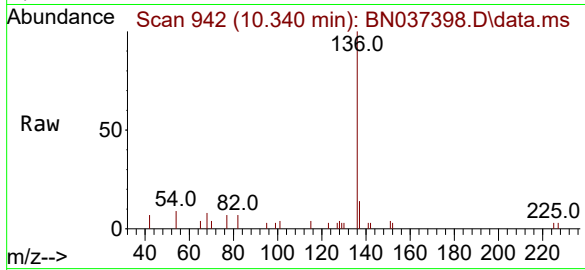




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037398.D
Acq: 26 Jun 2025 17:54

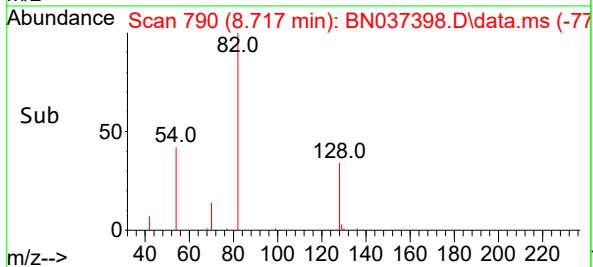
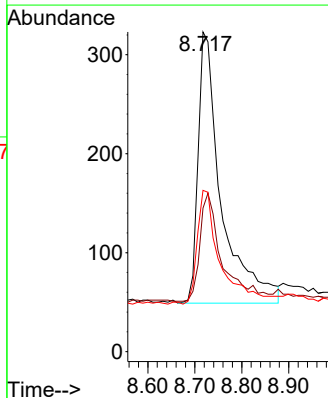
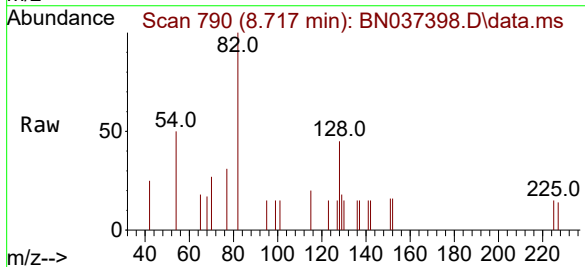
Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250617

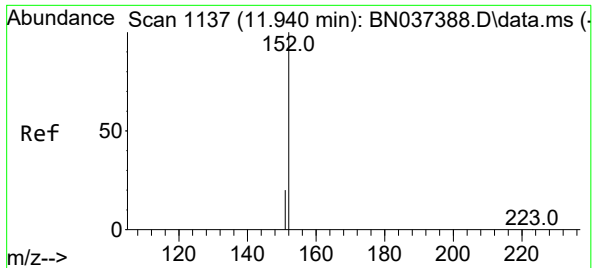
Tgt Ion:	136	Resp:	3476
Ion	Ratio	Lower	Upper
136	100		
137	14.0	10.4	15.6
54	9.4	5.6	8.4#
68	7.8	4.6	6.8#



#8
Nitrobenzene-d5
Concen: 0.337 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037398.D
Acq: 26 Jun 2025 17:54

Tgt Ion:	82	Resp:	940
Ion	Ratio	Lower	Upper
82	100		
128	44.9	34.0	51.0
54	50.5	37.7	56.5

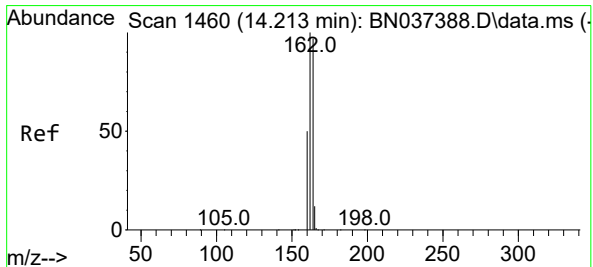
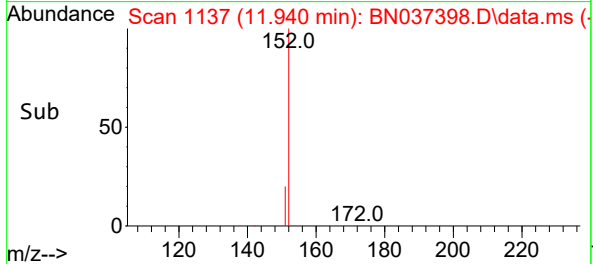
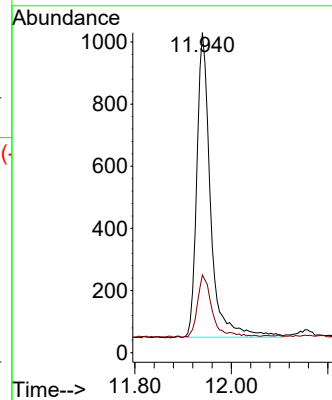
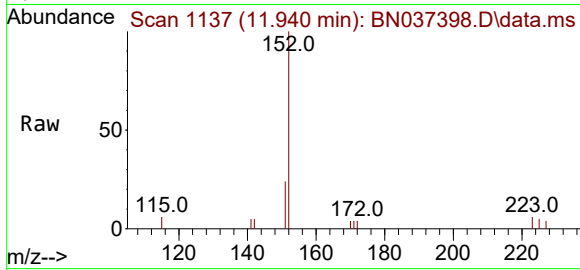




#11
2-Methylnaphthalene-d10
Concen: 0.359 ng
RT: 11.940 min Scan# 1137
Delta R.T. -0.000 min
Lab File: BN037398.D
Acq: 26 Jun 2025 17:54

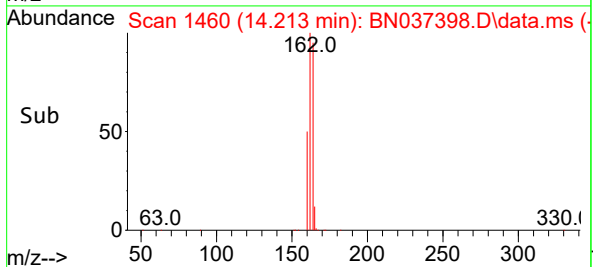
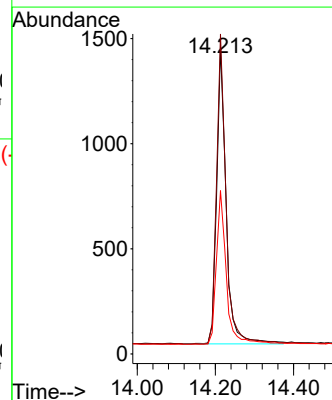
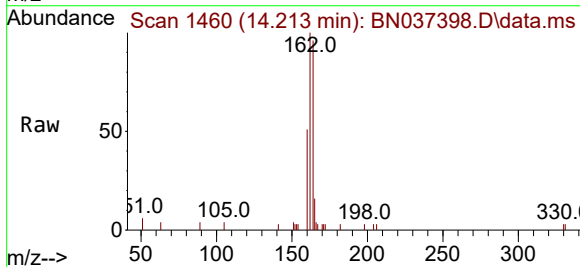
Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250617

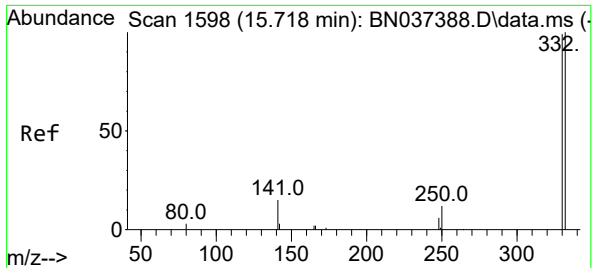
Tgt Ion:152 Resp: 1933
Ion Ratio Lower Upper
152 100
151 20.7 18.4 27.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037398.D
Acq: 26 Jun 2025 17:54

Tgt Ion:164 Resp: 2375
Ion Ratio Lower Upper
164 100
162 104.5 82.6 123.8
160 53.4 42.2 63.2

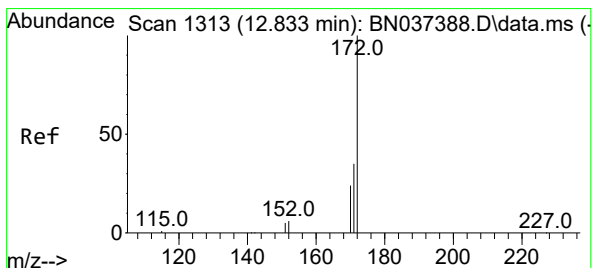
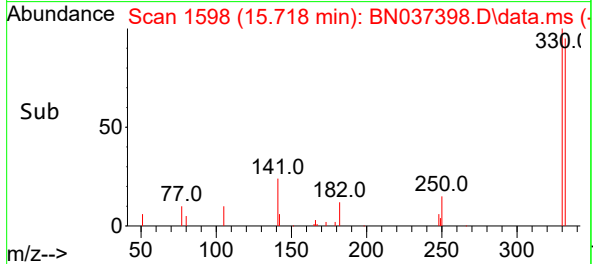
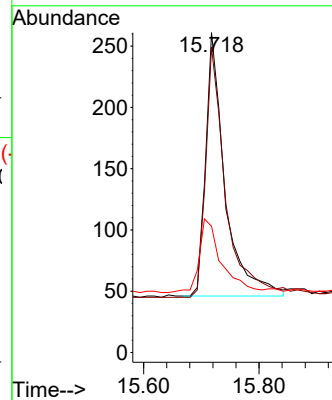
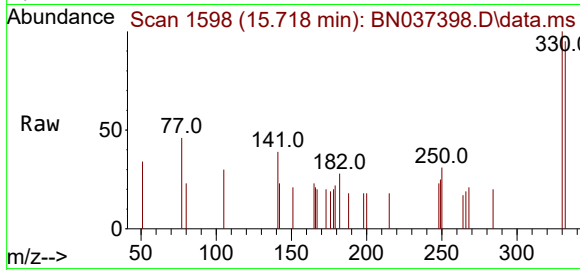




#14
2,4,6-Tribromophenol
Concen: 0.360 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037398.D
Acq: 26 Jun 2025 17:54

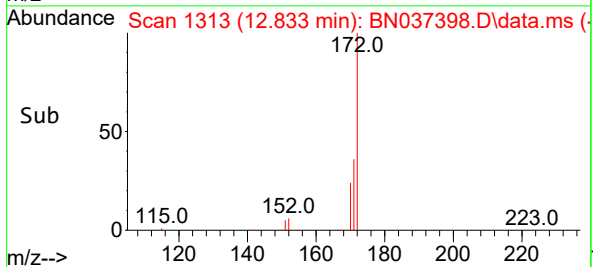
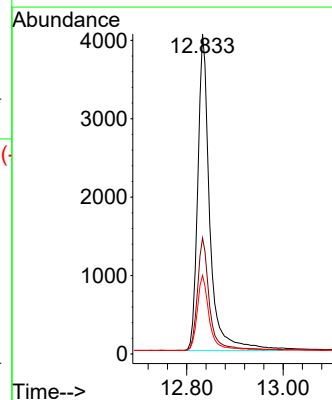
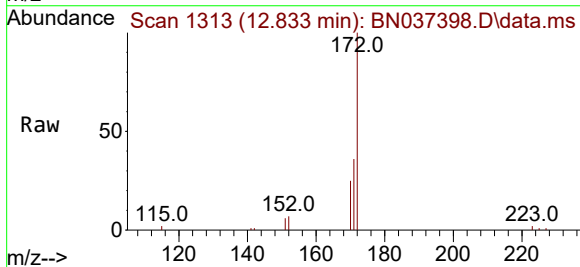
Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250617

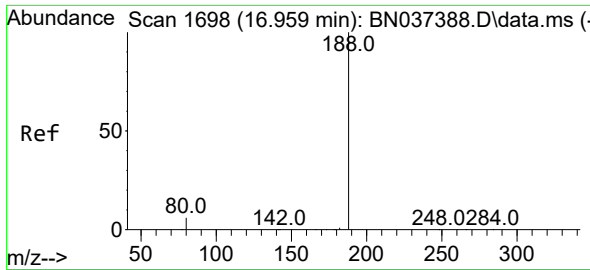
Tgt Ion:	330	Resp:	502
Ion	Ratio	Lower	Upper
330	100		
332	99.4	77.8	116.8
141	31.7	24.0	36.0



#15
2-Fluorobiphenyl
Concen: 0.682 ng
RT: 12.833 min Scan# 1313
Delta R.T. -0.000 min
Lab File: BN037398.D
Acq: 26 Jun 2025 17:54

Tgt Ion:	172	Resp:	6992
Ion	Ratio	Lower	Upper
172	100		
171	36.3	28.8	43.2
170	24.6	20.3	30.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.012 min

Lab File: BN037398.D

Acq: 26 Jun 2025 17:54

Instrument :

BNA_N

ClientSampleId :

RW8-MW01D1-20250617

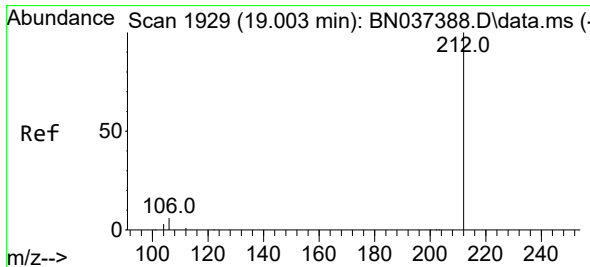
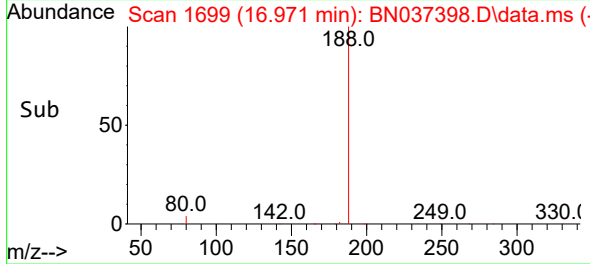
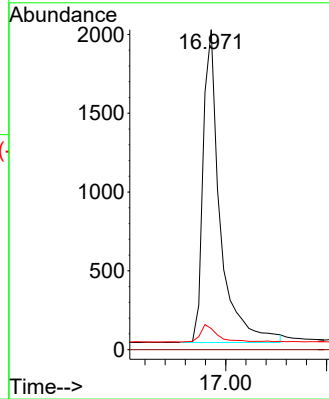
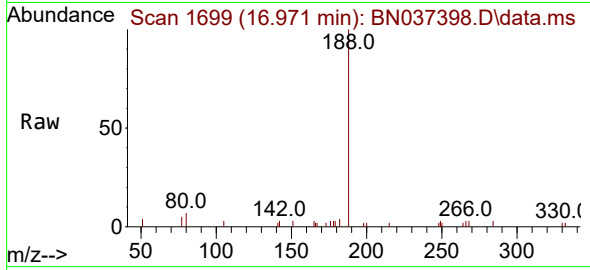
Tgt Ion:188 Resp: 4640

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.6 6.2 9.4



#27

Fluoranthene-d10

Concen: 0.400 ng

RT: 19.003 min Scan# 1929

Delta R.T. -0.000 min

Lab File: BN037398.D

Acq: 26 Jun 2025 17:54

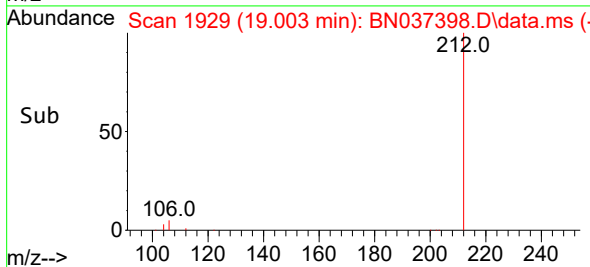
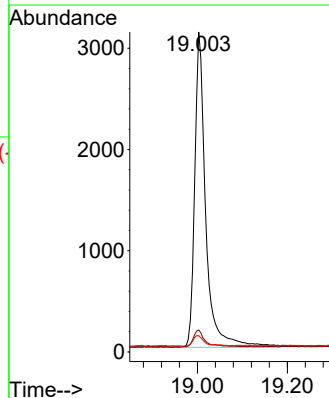
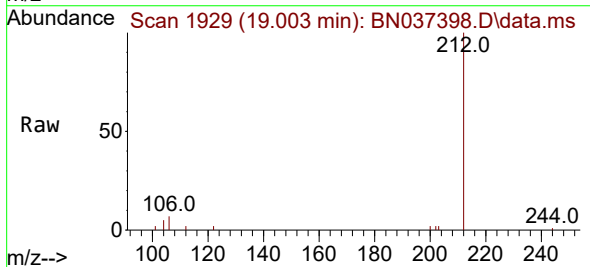
Tgt Ion:212 Resp: 5322

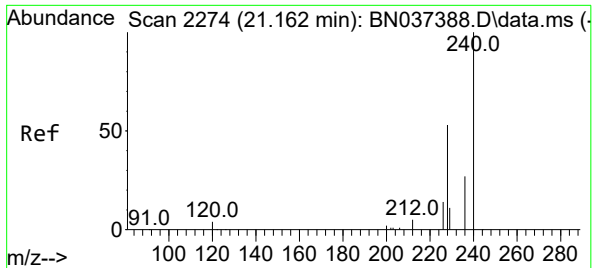
Ion Ratio Lower Upper

212 100

106 5.7 4.5 6.7

104 3.5 2.7 4.1

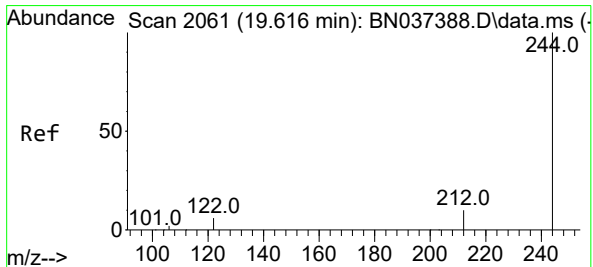
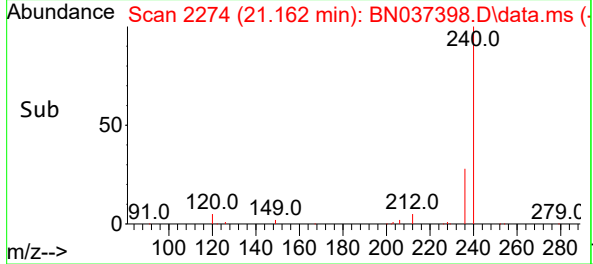
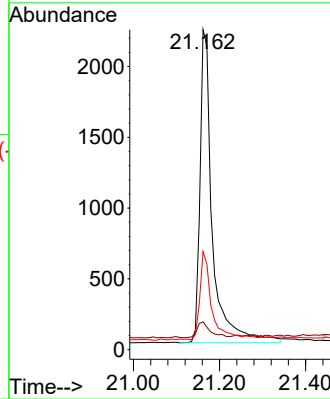
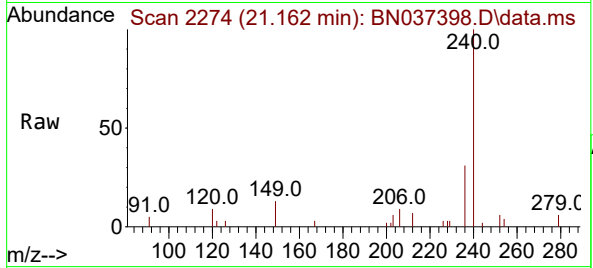




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037398.D
Acq: 26 Jun 2025 17:54

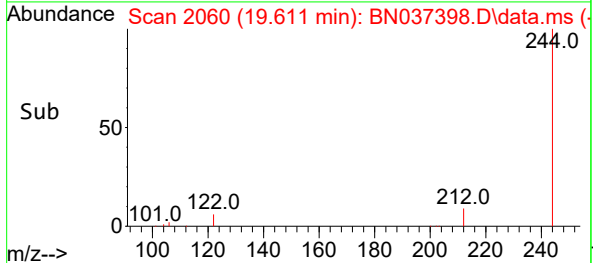
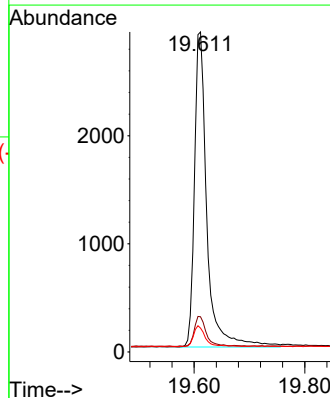
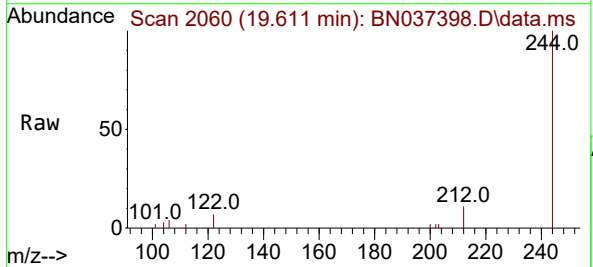
Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250617

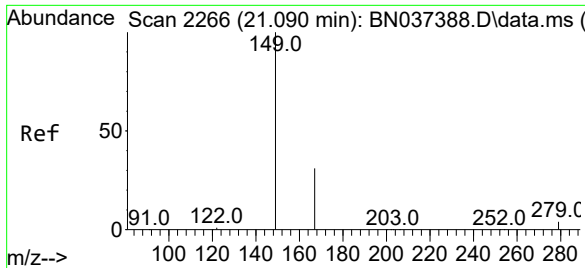
Tgt Ion:240 Resp: 4434
Ion Ratio Lower Upper
240 100
120 8.7 5.3 7.9#
236 30.7 22.7 34.1



#31
Terphenyl-d14
Concen: 0.482 ng
RT: 19.611 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN037398.D
Acq: 26 Jun 2025 17:54

Tgt Ion:244 Resp: 4554
Ion Ratio Lower Upper
244 100
212 11.0 9.1 13.7
122 7.4 6.3 9.5

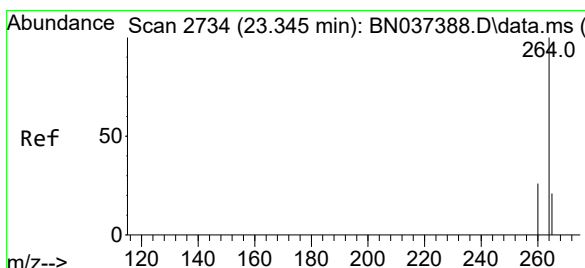
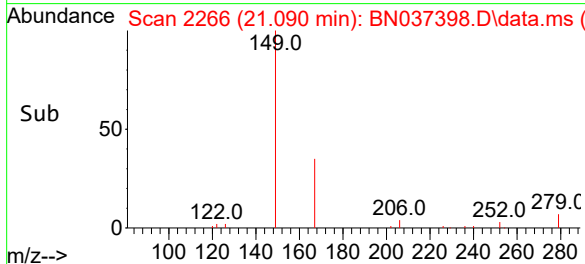
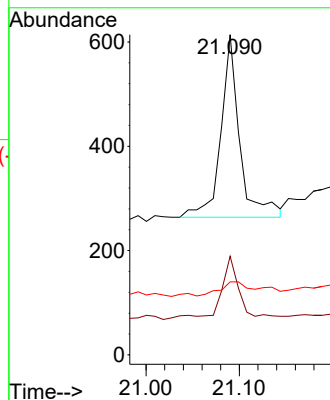
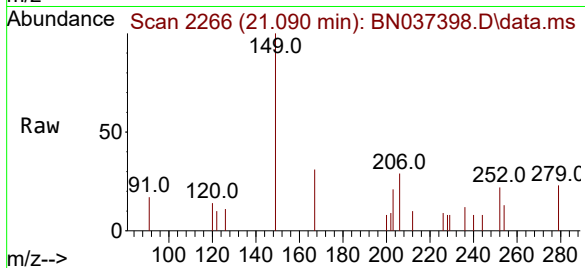




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.088 ng
RT: 21.090 min Scan# 2109
Delta R.T. -0.000 min
Lab File: BN037398.D
Acq: 26 Jun 2025 17:54

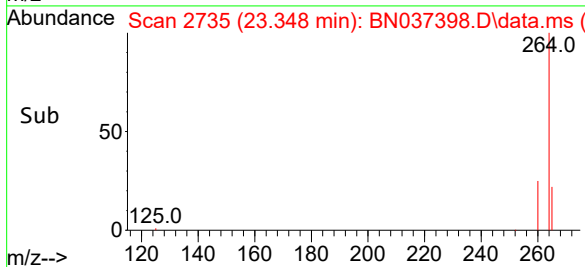
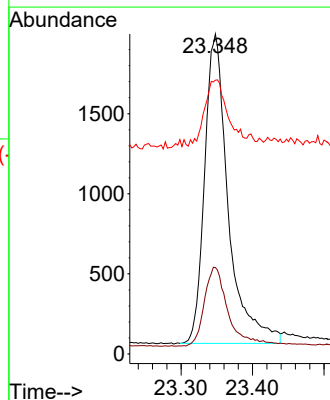
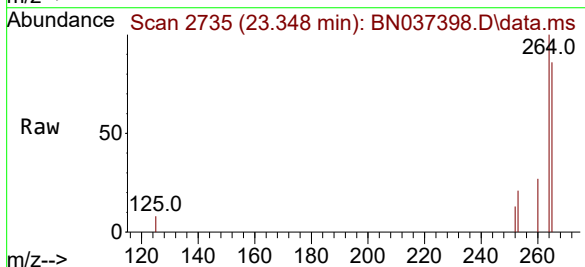
Instrument :
BNA_N
ClientSampleId :
RW8-MW01D1-20250617

Tgt Ion:149 Resp: 488
Ion Ratio Lower Upper
149 100
167 25.6 24.8 37.2
279 11.7 5.0 7.6#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.348 min Scan# 2735
Delta R.T. 0.003 min
Lab File: BN037398.D
Acq: 26 Jun 2025 17:54

Tgt Ion:264 Resp: 4454
Ion Ratio Lower Upper
264 100
260 27.0 21.4 32.0
265 85.5 56.2 84.4#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	06/17/25
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	06/17/25
Client Sample ID:	TT192D2-20250617	SDG No.:	Q2345
Lab Sample ID:	Q2345-16	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037399.D	1	06/20/25 09:32	06/26/25 18:30	PB168563

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.92		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		79%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.41		30 - 150		103%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.29		55 - 111		73%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.48	*	53 - 106		119%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.41		58 - 132		103%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1650	7.561				
1146-65-2	Naphthalene-d8	3570	10.341				
15067-26-2	Acenaphthene-d10	2380	14.213				
1517-22-2	Phenanthrene-d10	5030	16.972				
1719-03-5	Chrysene-d12	5330	21.162				
1520-96-3	Perylene-d12	5700	23.345				

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\BN062625\
Data File : BN037399.D
Acq On : 26 Jun 2025 18:30
Operator : RC/JU
Sample : Q2345-16
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT192D2-20250617

Quant Time: Jun 26 18:54:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

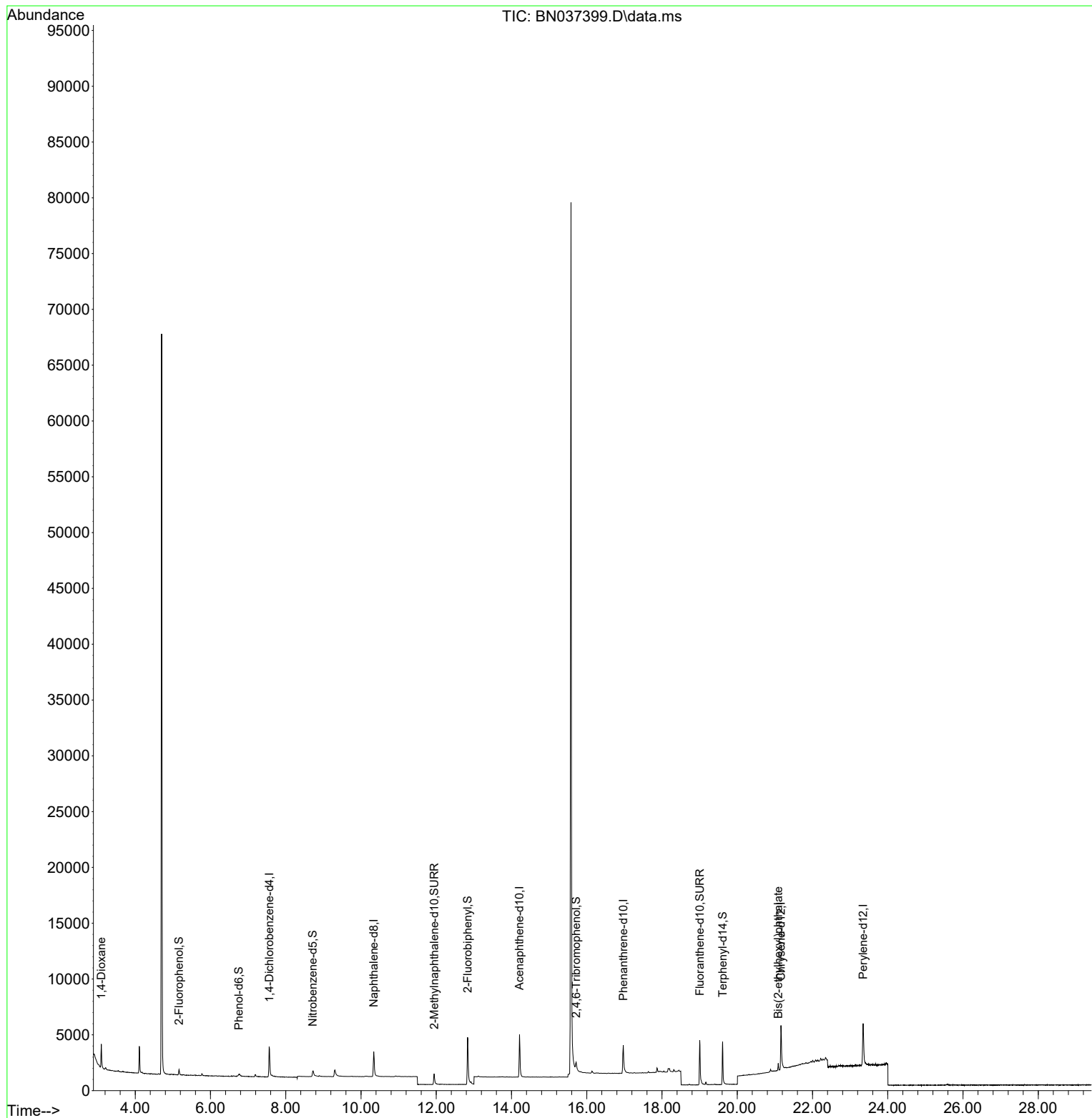
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.561	152	1647	0.400	ng	0.00
7) Naphthalene-d8	10.341	136	3570	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	2375	0.400	ng	0.00
19) Phenanthrene-d10	16.972	188	5031	0.400	ng	0.01
29) Chrysene-d12	21.162	240	5333	0.400	ng	0.00
35) Perylene-d12	23.345	264	5697	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	413	0.130	ng	0.00
5) Phenol-d6	6.752	99	226	0.069	ng	0.00
8) Nitrobenzene-d5	8.718	82	836	0.292	ng	0.00
11) 2-Methylnaphthalene-d10	11.945	152	1748	0.316	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	542	0.389	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	4887	0.477	ng	0.00
27) Fluoranthene-d10	19.003	212	5948	0.413	ng	0.00
31) Terphenyl-d14	19.612	244	4696	0.413	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.097	88	1429	0.915	ng	# 89
34) Bis(2-ethylhexyl)phtha...	21.090	149	574	0.087	ng	# 96

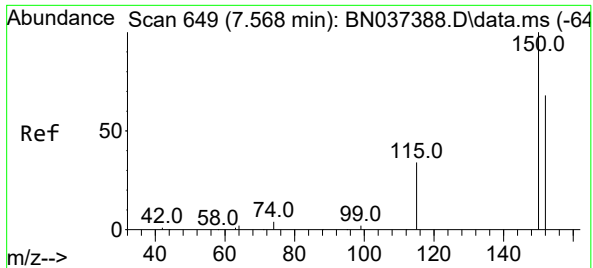
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037399.D
Acq On : 26 Jun 2025 18:30
Operator : RC/JU
Sample : Q2345-16
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
TT192D2-20250617

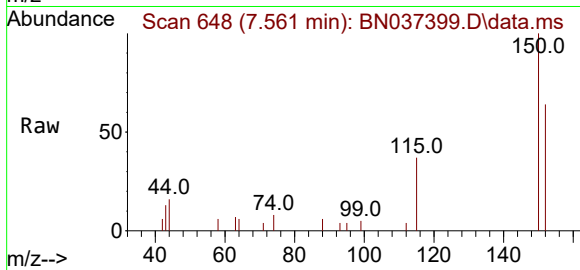
Quant Time: Jun 26 18:54:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration



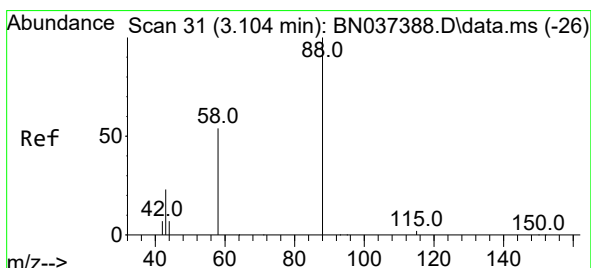
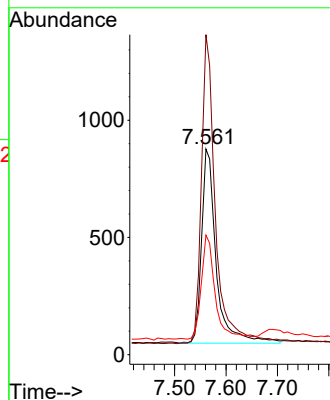
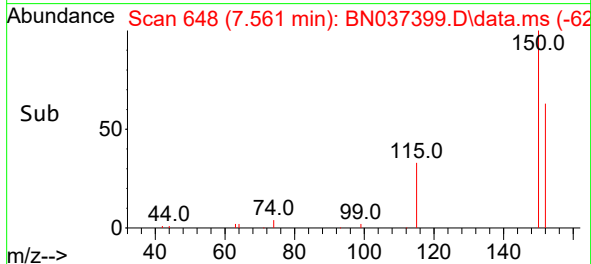


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.561 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037399.D
Acq: 26 Jun 2025 18:30

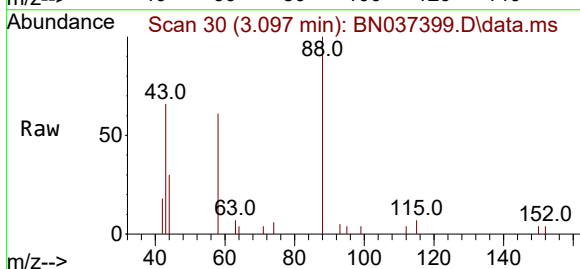
Instrument :
BNA_N
ClientSampleId :
TT192D2-20250617



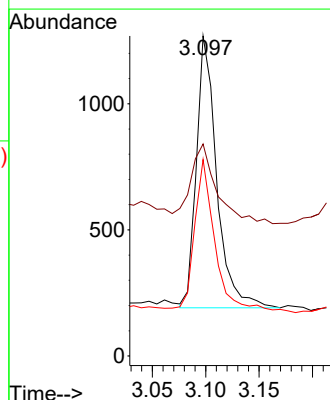
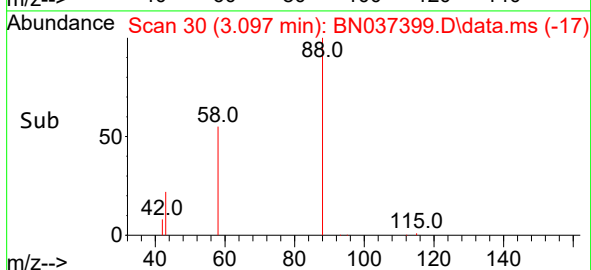
Tgt Ion:152 Resp: 1647
Ion Ratio Lower Upper
152 100
150 155.6 116.2 174.2
115 58.2 42.9 64.3

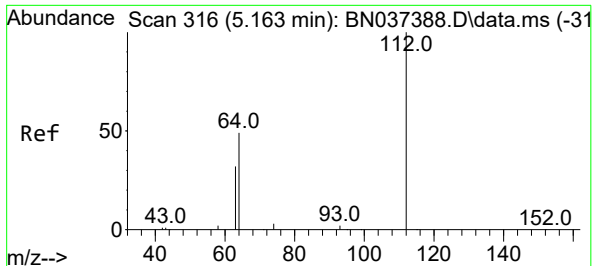


#2
1,4-Dioxane
Concen: 0.915 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037399.D
Acq: 26 Jun 2025 18:30



Tgt Ion: 88 Resp: 1429
Ion Ratio Lower Upper
88 100
43 38.1 21.6 32.4#
58 53.4 45.9 68.9

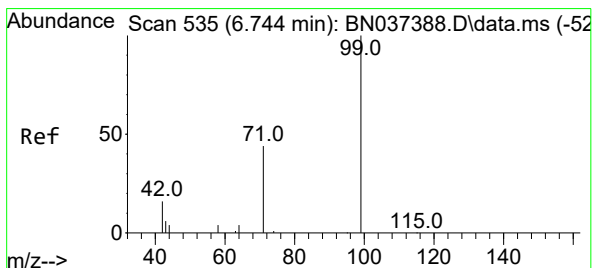
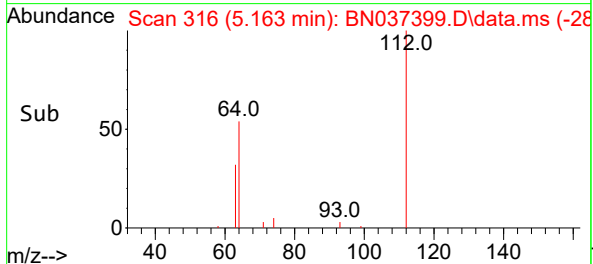
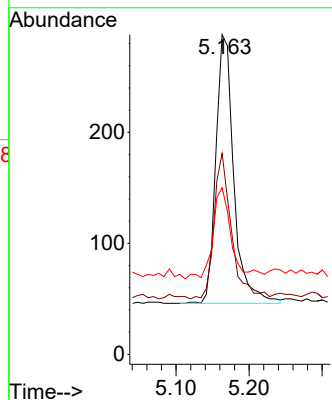
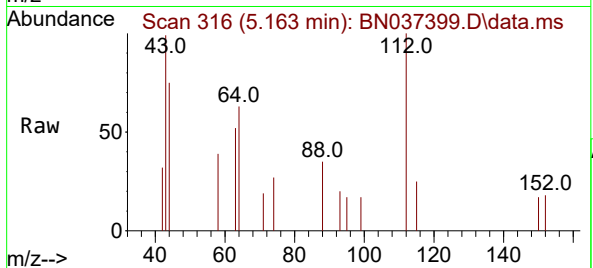




#4
2-Fluorophenol
Concen: 0.130 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037399.D
Acq: 26 Jun 2025 18:30

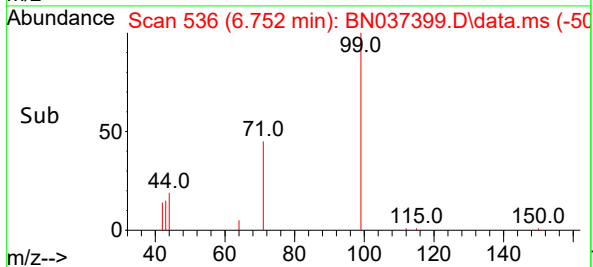
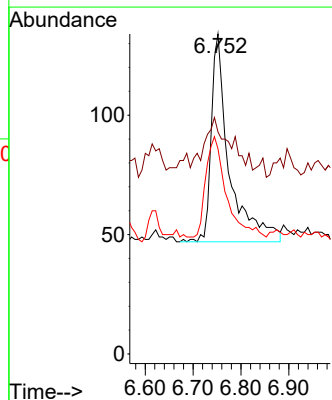
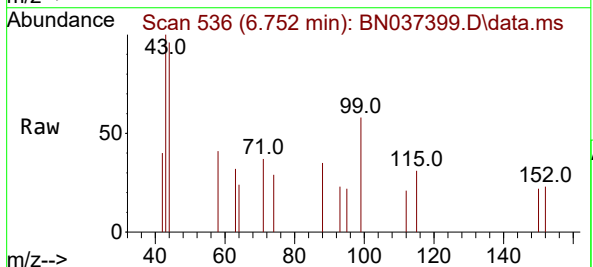
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BNA_N
ClientSampleId :
TT192D2-20250617

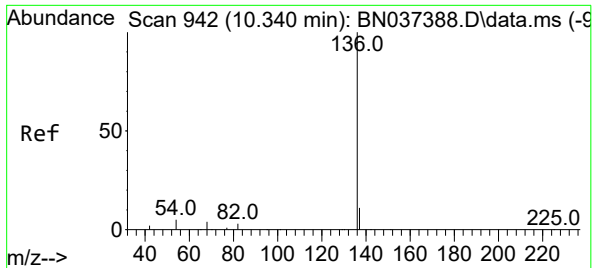
Tgt Ion:112 Resp: 413
Ion Ratio Lower Upper
112 100
64 52.3 40.3 60.5
63 33.2 26.1 39.1



#5
Phenol-d6
Concen: 0.069 ng
RT: 6.752 min Scan# 536
Delta R.T. 0.008 min
Lab File: BN037399.D
Acq: 26 Jun 2025 18:30

Tgt Ion: 99 Resp: 226
Ion Ratio Lower Upper
99 100
42 36.3 15.6 23.4#
71 56.6 35.8 53.8#

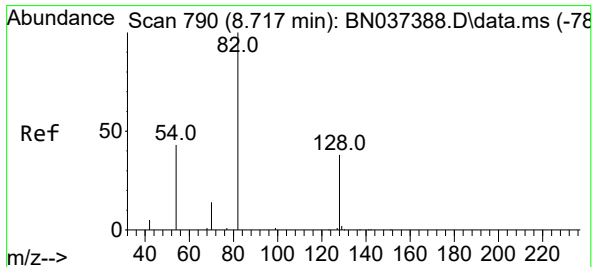
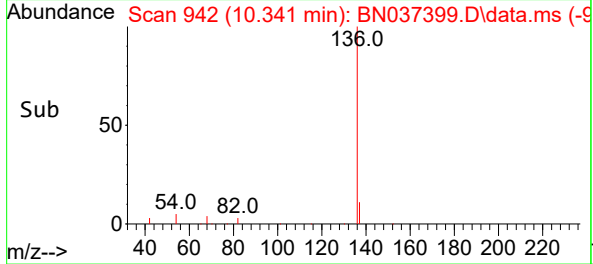
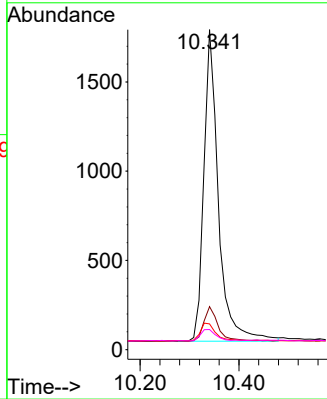
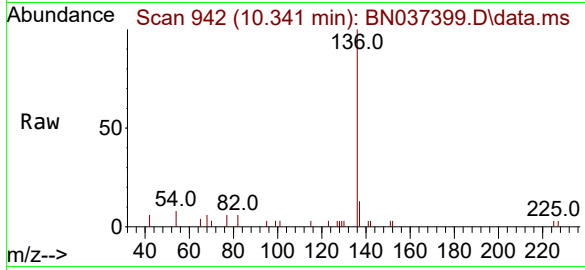




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.341 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037399.D
Acq: 26 Jun 2025 18:30

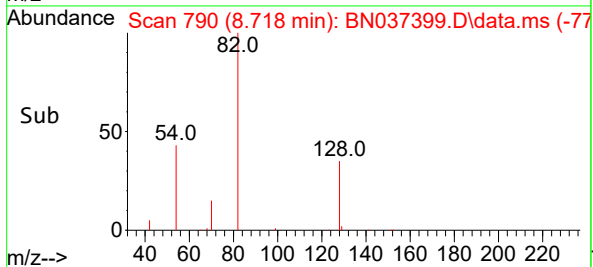
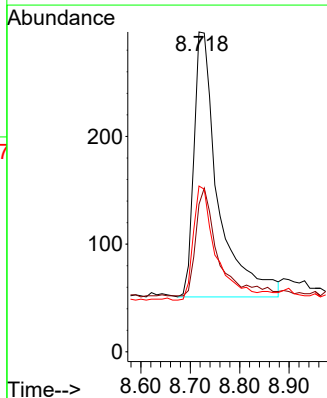
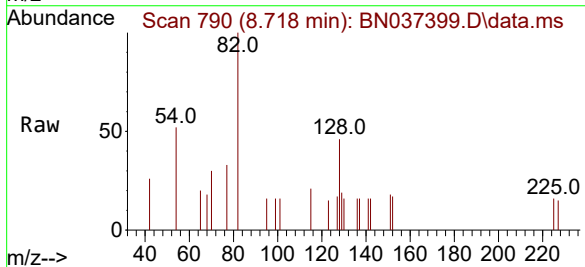
Instrument :
BNA_N
ClientSampleId :
TT192D2-20250617

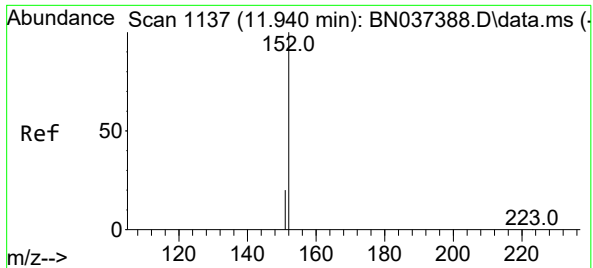
Tgt Ion:	136	Resp:	3570
Ion Ratio	Lower	Upper	
136	100		
137	13.4	10.4	15.6
54	8.0	5.6	8.4
68	6.3	4.6	6.8



#8
Nitrobenzene-d5
Concen: 0.292 ng
RT: 8.718 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037399.D
Acq: 26 Jun 2025 18:30

Tgt Ion:	82	Resp:	836
Ion Ratio	Lower	Upper	
82	100		
128	46.1	34.0	51.0
54	51.9	37.7	56.5

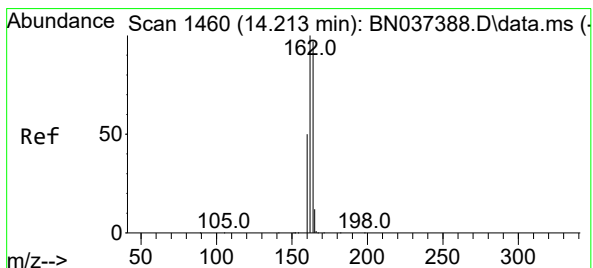
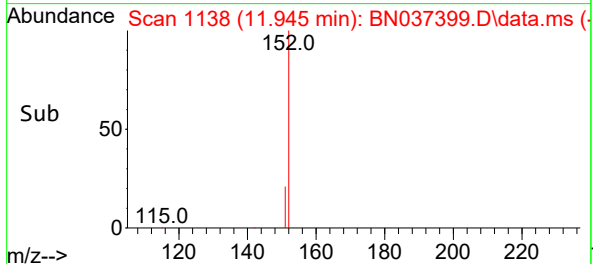
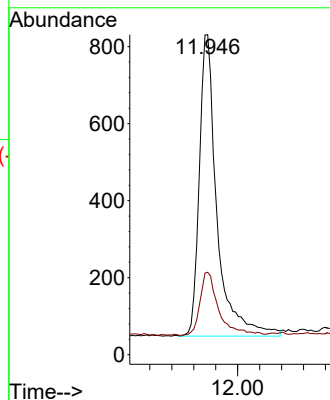
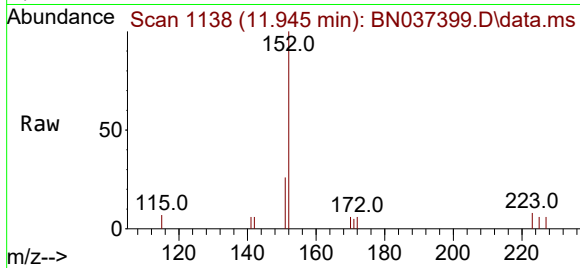




#11
2-Methylnaphthalene-d10
Concen: 0.316 ng
RT: 11.945 min Scan# 1137
Delta R.T. 0.005 min
Lab File: BN037399.D
Acq: 26 Jun 2025 18:30

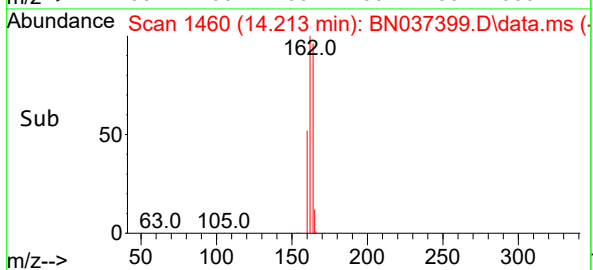
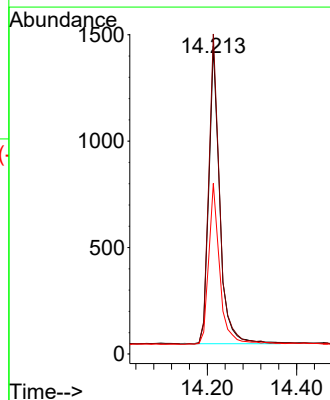
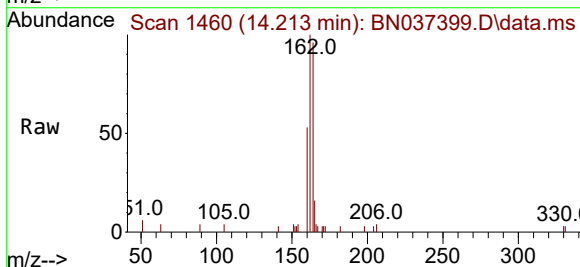
Instrument :
BNA_N
ClientSampleId :
TT192D2-20250617

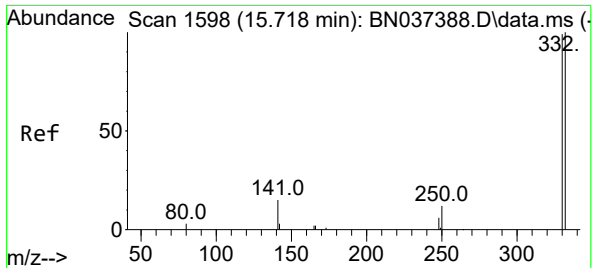
Tgt Ion:152 Resp: 1748
Ion Ratio Lower Upper
152 100
151 22.2 18.4 27.6



#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. 0.000 min
Lab File: BN037399.D
Acq: 26 Jun 2025 18:30

Tgt Ion:164 Resp: 2375
Ion Ratio Lower Upper
164 100
162 103.9 82.6 123.8
160 55.4 42.2 63.2

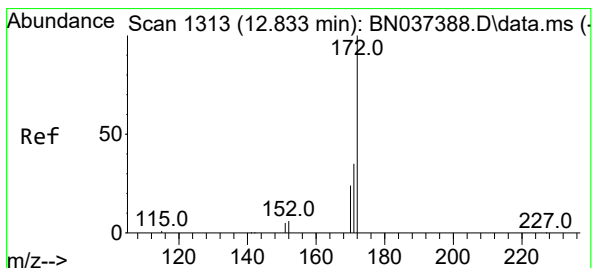
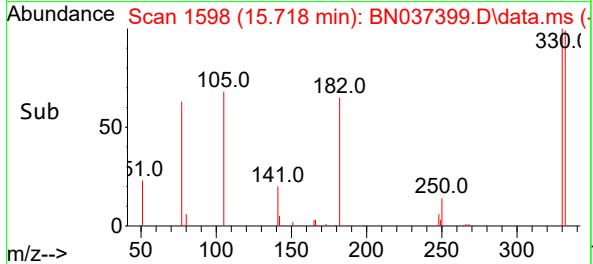
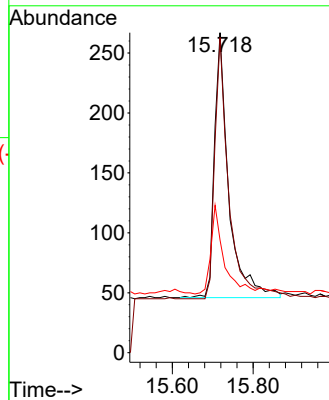
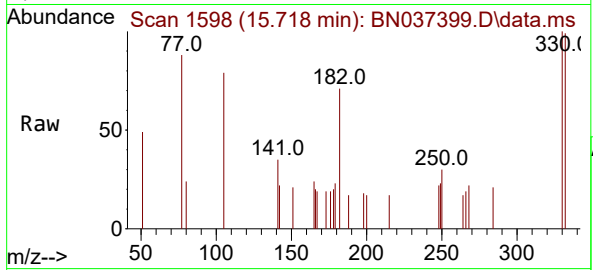




#14
2,4,6-Tribromophenol
Concen: 0.389 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037399.D
Acq: 26 Jun 2025 18:30

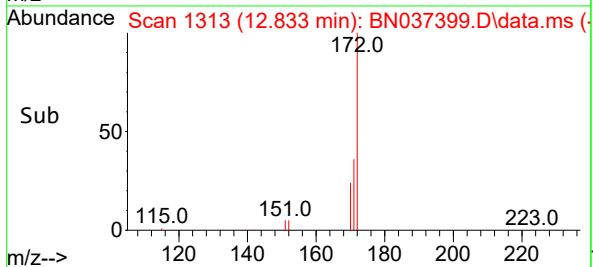
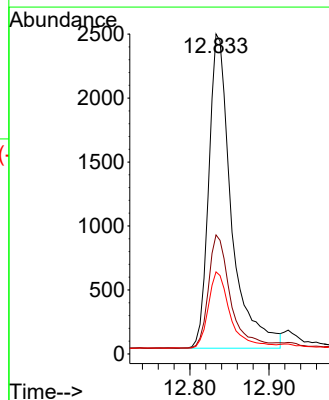
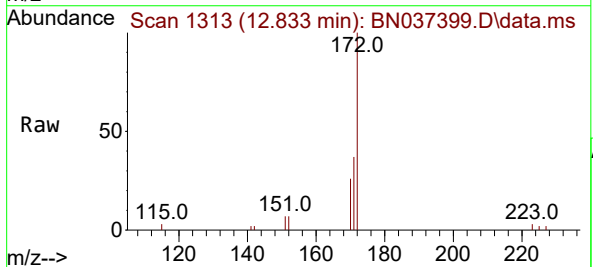
Instrument :
BNA_N
ClientSampleId :
TT192D2-20250617

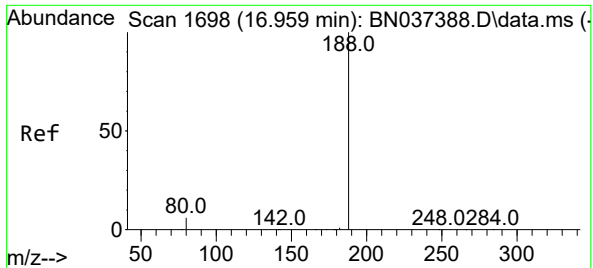
Tgt Ion:	330	Resp:	542
Ion Ratio	Lower	Upper	
330	100		
332	97.4	77.8	116.8
141	30.6	24.0	36.0



#15
2-Fluorobiphenyl
Concen: 0.477 ng
RT: 12.833 min Scan# 1313
Delta R.T. 0.000 min
Lab File: BN037399.D
Acq: 26 Jun 2025 18:30

Tgt Ion:	172	Resp:	4887
Ion Ratio	Lower	Upper	
172	100		
171	37.2	28.8	43.2
170	25.6	20.3	30.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.972 min Scan# 1699

Delta R.T. 0.013 min

Lab File: BN037399.D

Acq: 26 Jun 2025 18:30

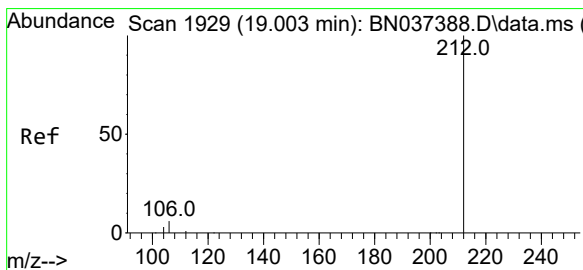
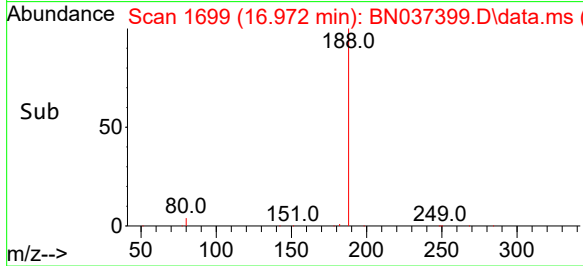
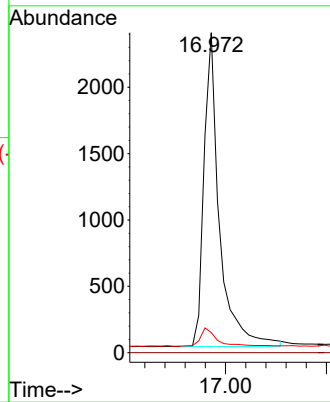
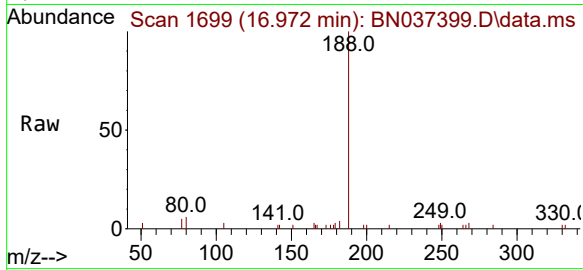
Instrument :

BNA_N

ClientSampleId :

TT192D2-20250617

Tgt Ion:	188	Resp:	5031
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	6.3	6.2	9.4



#27

Fluoranthene-d10

Concen: 0.413 ng

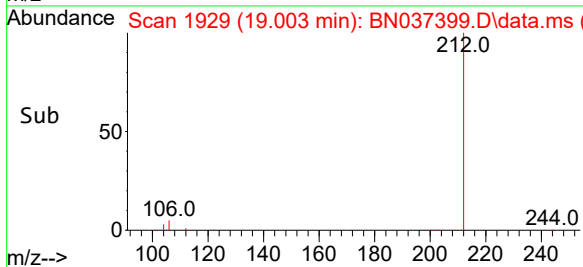
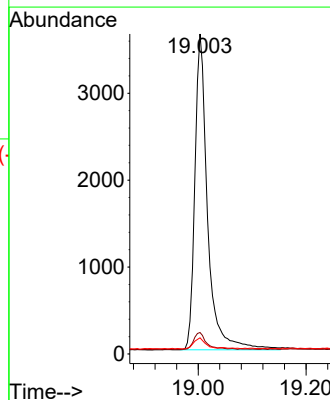
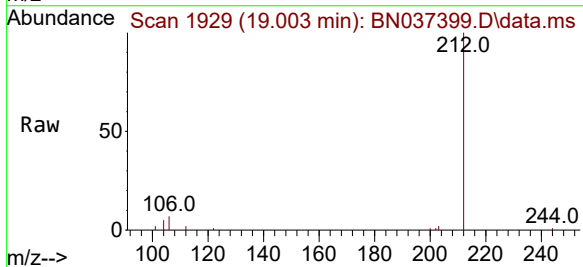
RT: 19.003 min Scan# 1929

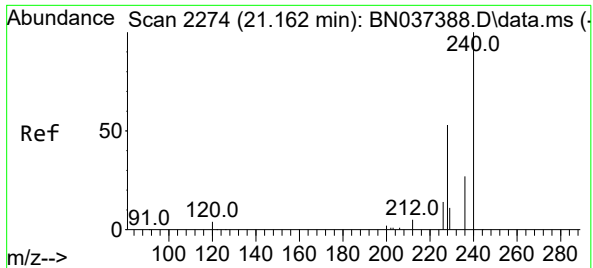
Delta R.T. 0.000 min

Lab File: BN037399.D

Acq: 26 Jun 2025 18:30

Tgt Ion:	212	Resp:	5948
Ion Ratio	Lower	Upper	
212	100		
106	5.4	4.5	6.7
104	3.1	2.7	4.1

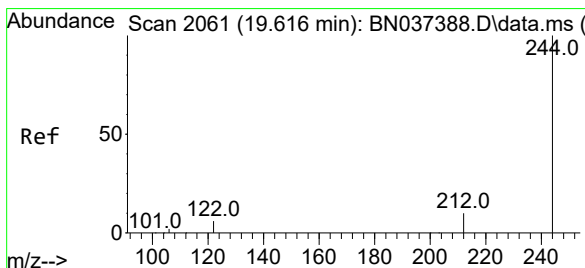
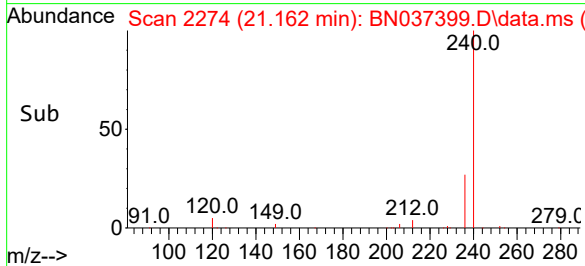
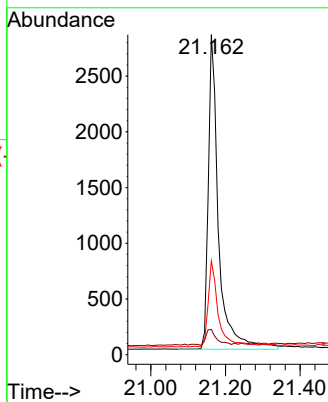
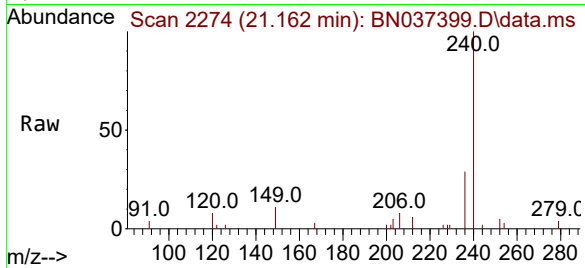




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037399.D
Acq: 26 Jun 2025 18:30

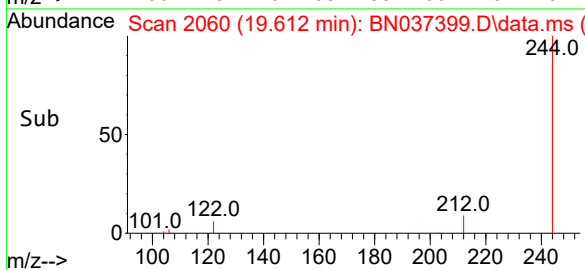
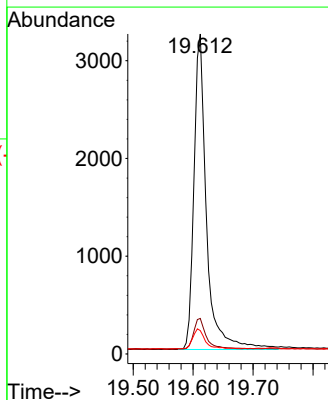
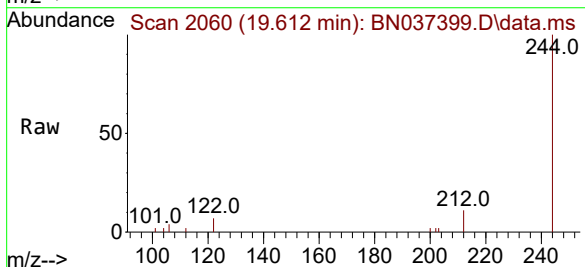
Instrument :
BNA_N
ClientSampleId :
TT192D2-20250617

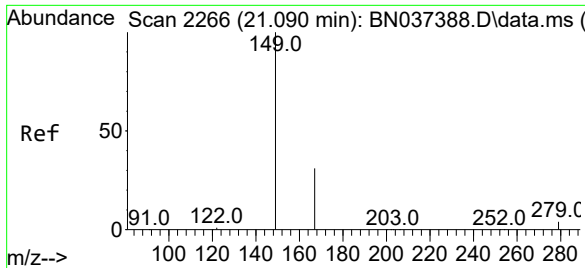
Tgt Ion:	240	Resp:	5333
Ion Ratio	Lower	Upper	
240	100		
120	7.9	5.3	7.9
236	29.3	22.7	34.1



#31
Terphenyl-d14
Concen: 0.413 ng
RT: 19.612 min Scan# 2060
Delta R.T. -0.004 min
Lab File: BN037399.D
Acq: 26 Jun 2025 18:30

Tgt Ion:	244	Resp:	4696
Ion Ratio	Lower	Upper	
244	100		
212	11.1	9.1	13.7
122	7.3	6.3	9.5

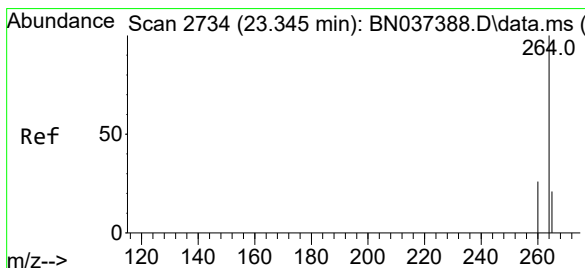
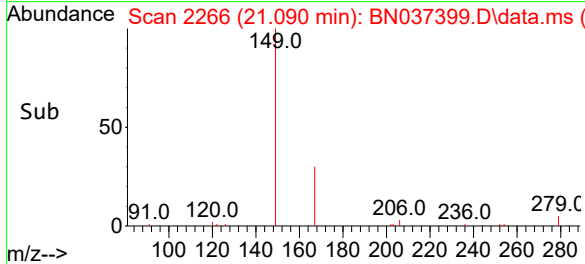
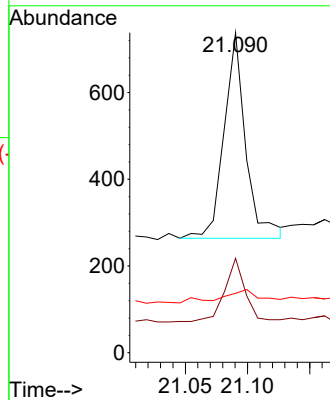
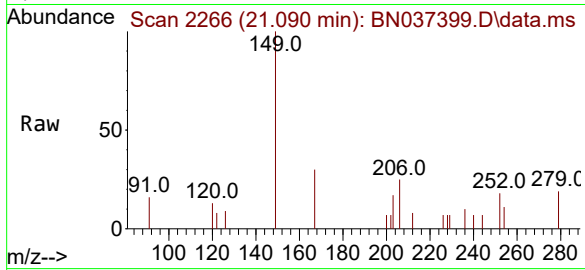




#34
Bis(2-ethylhexyl)phthalate
Concen: 0.087 ng
RT: 21.090 min Scan# 2109
Delta R.T. 0.000 min
Lab File: BN037399.D
Acq: 26 Jun 2025 18:30

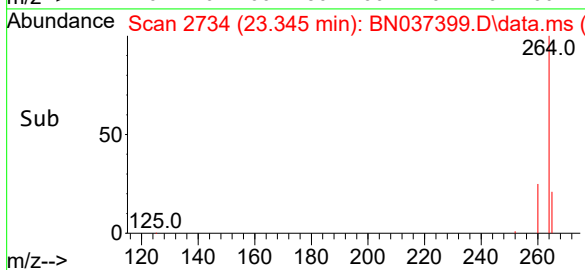
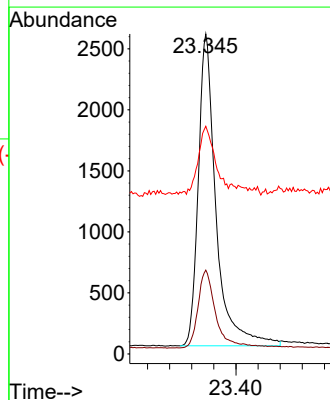
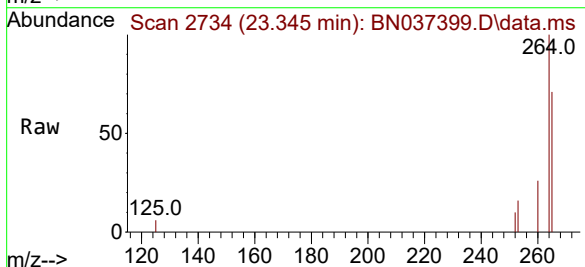
Instrument :
BNA_N
ClientSampleId :
TT192D2-20250617

Tgt Ion:149 Resp: 574
Ion Ratio Lower Upper
149 100
167 29.8 24.8 37.2
279 11.3 5.0 7.6#



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.345 min Scan# 2734
Delta R.T. 0.000 min
Lab File: BN037399.D
Acq: 26 Jun 2025 18:30

Tgt Ion:264 Resp: 5697
Ion Ratio Lower Upper
264 100
260 26.2 21.4 32.0
265 71.1 56.2 84.4





CALIBRATION SUMMARY

1
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18

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN062125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 20 23:41:54 2025
Response Via : Initial Calibration

Calibration Files

0.1 =BN037353.D 0.2 =BN037354.D 0.4 =BN037355.D 0.8 =BN037356.D 1.6 =BN037357.D 3.2 =BN037358.D 5 =BN037359.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.506	0.390	0.412	0.417	0.370	0.346	0.407	13.63	
3)	n-Nitrosodimet...	0.392	0.394	0.367	0.391	0.354	0.338	0.373	6.37	
4) S	2-Fluorophenol	0.854	0.818	0.751	0.781	0.834	0.786	0.771	0.799	4.65
5) S	Phenol-d6	0.781	0.766	0.766	0.785	0.891	0.878	0.896	0.823	7.45
6)	bis(2-Chloroet...	0.719	0.546	0.707	0.738	0.826	0.786	0.791	0.730	12.59
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.254	0.292	0.319	0.318	0.363	0.354	0.361	0.323	12.43
9)	Naphthalene	1.056	1.056	1.046	1.014	1.105	1.052	1.063	1.056	2.54
10)	Hexachlorobuta...	0.452	0.434	0.441	0.407	0.424	0.384	0.376	0.417	6.95
11) SURR2	Methylnaphth...	0.619	0.638	0.666	0.610	0.666	0.664	0.675	0.648	3.96
12)	2-Methylnaphth...	0.703	0.692	0.711	0.704	0.777	0.778	0.787	0.736	5.73
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.219	0.226	0.230	0.231	0.253	0.238	0.246	0.235	4.96
15) S	2-Fluorobiphenyl	1.705	1.675	1.777	1.714	1.897	1.752	1.778	1.757	4.15
16)	Acenaphthylene	1.646	1.636	1.597	1.595	1.797	1.717	1.786	1.682	5.06
17)	Acenaphthene	1.108	1.070	1.061	1.051	1.174	1.123	1.160	1.107	4.40
18)	Fluorene	1.499	1.470	1.506	1.490	1.660	1.605	1.660	1.556	5.34
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.070	0.079	0.097	0.110	0.107	0.114	0.096	18.63	
21)	4-Bromophenyl-...	0.264	0.267	0.279	0.284	0.305	0.295	0.299	0.285	5.55
22)	Hexachlorobenzene	0.322	0.319	0.314	0.304	0.324	0.296	0.292	0.310	4.11
23)	Atrazine	0.221	0.215	0.218	0.220	0.239	0.239	0.238	0.227	4.74
24)	Pentachlorophenol	0.131	0.137	0.157	0.169	0.161	0.170	0.154	10.69	
25)	Phenanthrene	1.108	1.075	1.104	1.139	1.242	1.221	1.222	1.158	5.88
26)	Anthracene	0.993	0.984	0.990	1.054	1.150	1.137	1.171	1.068	7.75
27) SURR	Fluoranthene-d10	1.097	1.070	1.161	1.166	1.235	1.151	1.158	1.148	4.62
28)	Fluoranthene	1.412	1.343	1.367	1.492	1.605	1.512	1.518	1.464	6.39
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.726	1.690	1.660	1.444	1.572	1.642	1.643	1.625	5.73
31) S	Terphenyl-d14	0.949	0.911	0.925	0.829	0.909	0.935	0.921	0.912	4.25
32)	Benzo(a)anthra...	1.309	1.168	1.216	1.278	1.431	1.372	1.429	1.315	7.76
33)	Chrysene	1.752	1.706	1.611	1.481	1.586	1.528	1.495	1.594	6.52
34)	Bis(2-ethylhex...	0.606	0.541	0.487	0.520	0.531	0.554	0.540	7.34	
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN062125.M

36)	Indeno(1,2,3-c...	1.741	1.715	1.695	1.761	1.974	1.819	1.856	1.794	5.42
37)	Benzo(b)fluora...	1.428	1.380	1.444	1.392	1.541	1.532	1.587	1.472	5.50
38)	Benzo(k)fluora...	1.576	1.593	1.569	1.466	1.671	1.617	1.686	1.597	4.59
39) C	Benzo(a)pyrene	1.320	1.249	1.274	1.247	1.399	1.348	1.395	1.319	4.90
40)	Dibenzo(a,h)an...	1.179	1.185	1.236	1.355	1.561	1.446	1.478	1.348	11.32
41)	Benzo(g,h,i)pe...	1.620	1.554	1.589	1.560	1.720	1.577	1.598	1.603	3.53

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037353.D
 Acq On : 20 Jun 2025 16:51
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Jun 20 23:26:13 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:25:11 2025
 Response via : Initial Calibration

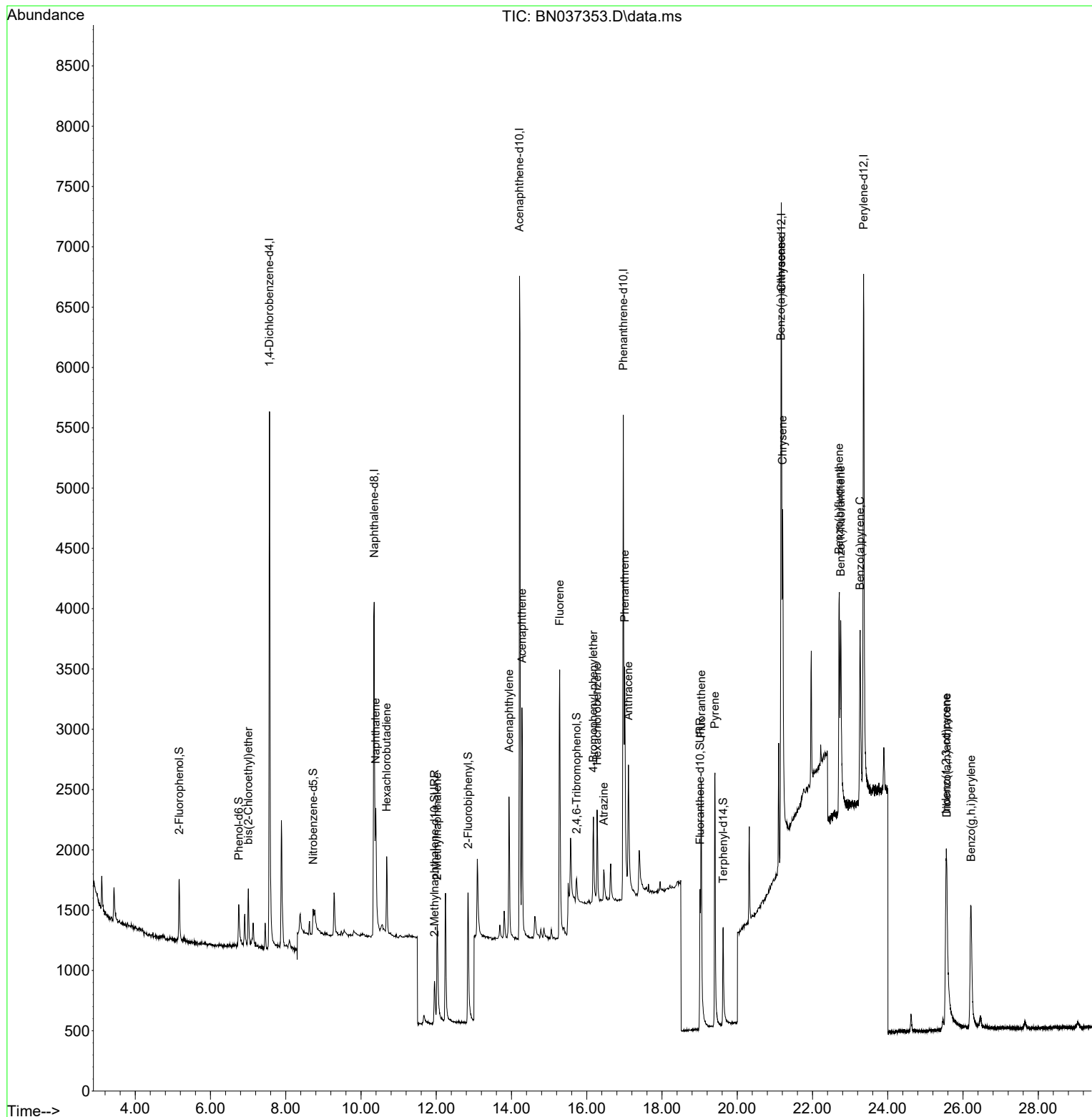
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	2463	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	5110	0.400	ng	# 0.01
13) Acenaphthene-d10	14.213	164	3596	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	7299	0.400	ng	0.00
29) Chrysene-d12	21.171	240	6135	0.400	ng	0.00
35) Perylene-d12	23.357	264	6598	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	526	0.117	ng	0.00
5) Phenol-d6	6.752	99	481	0.108	ng	0.00
8) Nitrobenzene-d5	8.728	82	325	0.077	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	791	0.096	ng	0.01
14) 2,4,6-Tribromophenol	15.730	330	197	0.077	ng	0.01
15) 2-Fluorobiphenyl	12.848	172	1533	0.097	ng	0.01
27) Fluoranthene-d10	19.012	212	2001	0.088	ng	0.00
31) Terphenyl-d14	19.625	244	1456	0.104	ng	0.00
Target Compounds						
6) bis(2-Chloroethyl)ether	7.004	93	443	0.114	ng	Qvalue 98
9) Naphthalene	10.394	128	1349	0.102	ng	98
10) Hexachlorobutadiene	10.682	225	578	0.089	ng	# 99
12) 2-Methylnaphthalene	12.026	142	898	0.096	ng	96
16) Acenaphthylene	13.935	152	1480	0.098	ng	98
17) Acenaphthene	14.277	154	996	0.100	ng	99
18) Fluorene	15.282	166	1348	0.095	ng	99
21) 4-Bromophenyl-phenylether	16.177	248	482	0.081	ng	# 95
22) Hexachlorobenzene	16.276	284	588	0.095	ng	98
23) Atrazine	16.450	200	404	0.087	ng	92
25) Phenanthrene	17.009	178	2021	0.098	ng	99
26) Anthracene	17.108	178	1812	0.094	ng	98
28) Fluoranthene	19.045	202	2576	0.091	ng	# 99
30) Pyrene	19.407	202	2647	0.113	ng	99
32) Benzo(a)anthracene	21.162	228	2007	0.101	ng	98
33) Chrysene	21.206	228	2687	0.107	ng	98
36) Indeno(1,2,3-cd)pyrene	25.550	276	2871	0.103	ng	# 98
37) Benzo(b)fluoranthene	22.708	252	2355	0.101	ng	# 75
38) Benzo(k)fluoranthene	22.749	252	2600	0.102	ng	# 79
39) Benzo(a)pyrene	23.263	252	2178	0.102	ng	# 60
40) Dibenzo(a,h)anthracene	25.567	278	1944	0.087	ng	# 78
41) Benzo(g,h,i)perylene	26.213	276	2673	0.104	ng	# 92

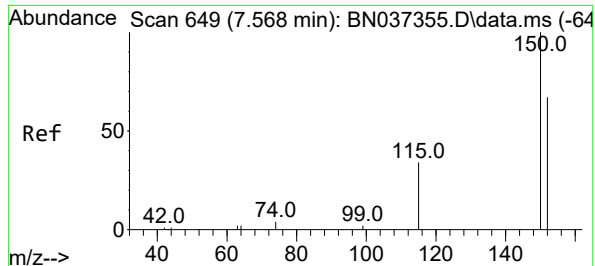
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Data File : BN037353.D
Acq On : 20 Jun 2025 16:51
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Jun 20 23:26:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration

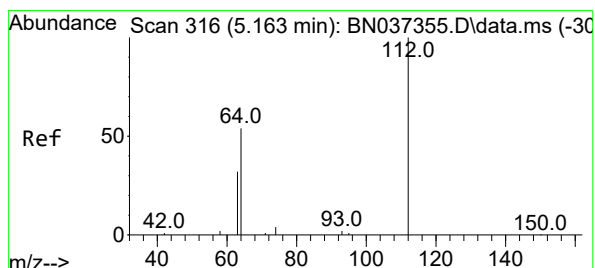
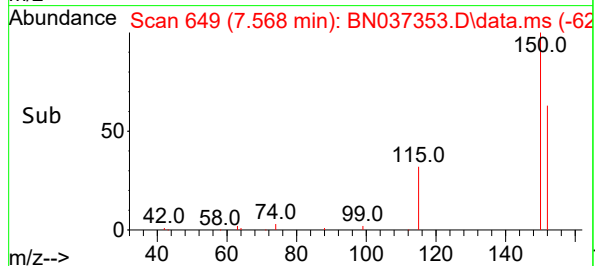
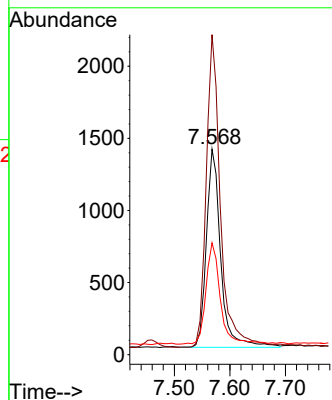
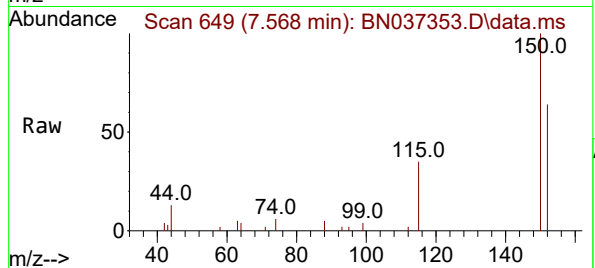




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

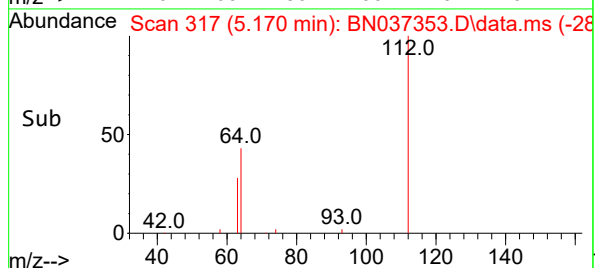
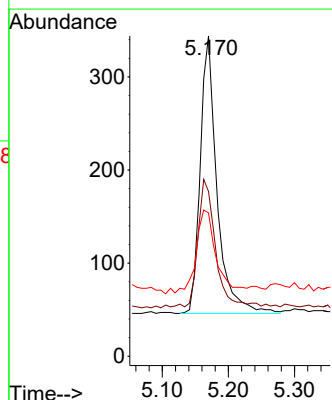
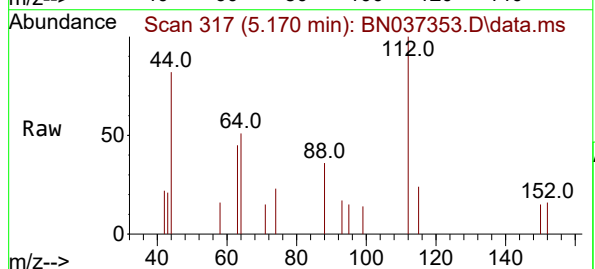
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

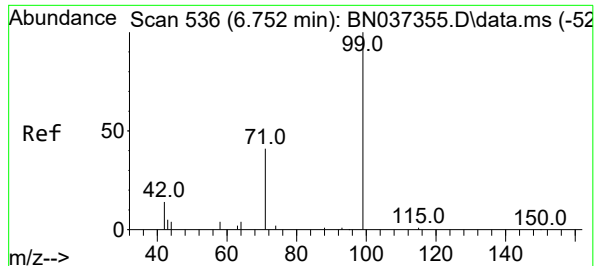
Tgt Ion:152 Resp: 2463
Ion Ratio Lower Upper
152 100
150 155.8 112.7 169.1
115 54.4 45.9 68.9



#4
2-Fluorophenol
Concen: 0.117 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:112 Resp: 526
Ion Ratio Lower Upper
112 100
64 51.3 38.7 58.1
63 37.1 26.4 39.6

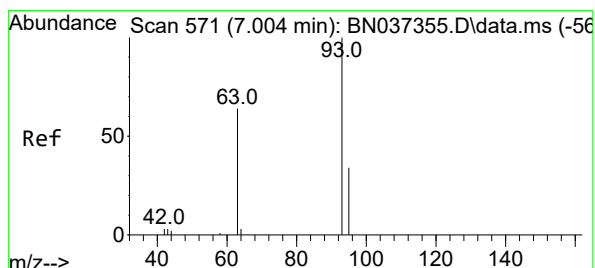
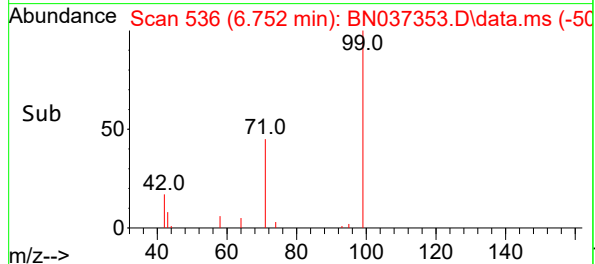
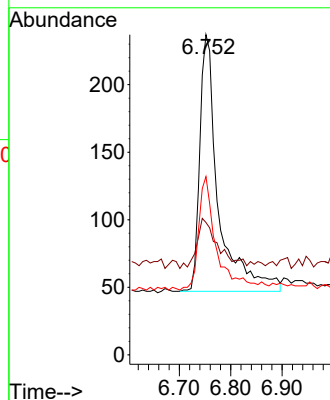
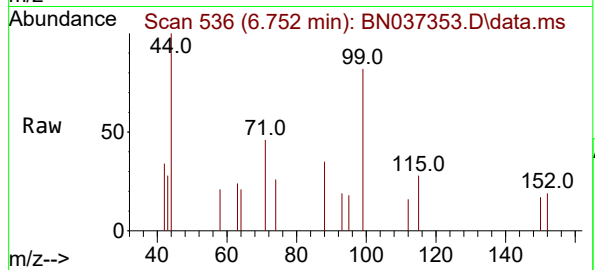




#5
Phenol-d6
Concen: 0.108 ng
RT: 6.752 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

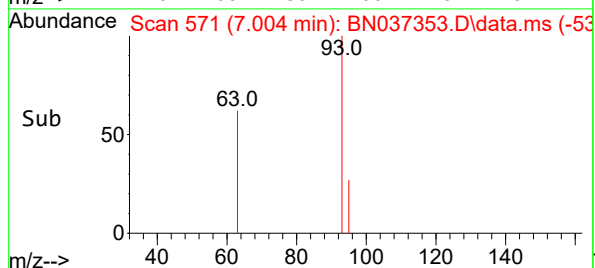
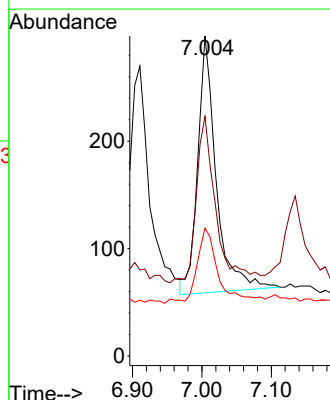
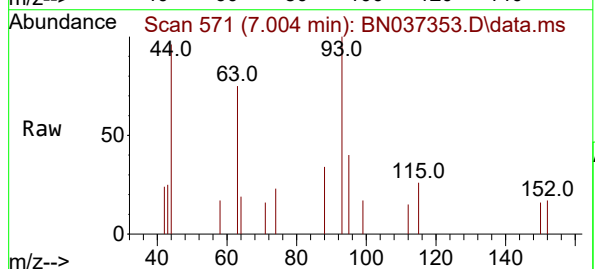
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

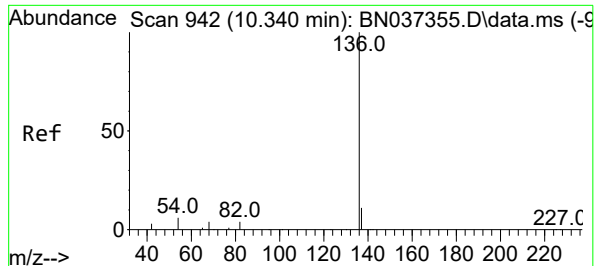
Tgt Ion: 99 Resp: 481
Ion Ratio Lower Upper
99 100
42 22.0 19.8 29.8
71 41.6 42.6 64.0#



#6
bis(2-Chloroethyl)ether
Concen: 0.114 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion: 93 Resp: 443
Ion Ratio Lower Upper
93 100
63 68.4 53.2 79.8
95 34.5 27.3 40.9

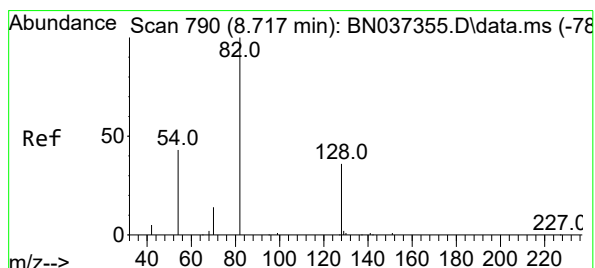
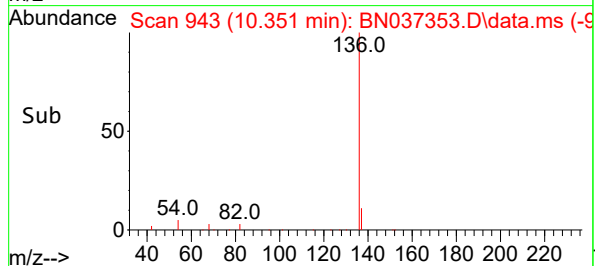
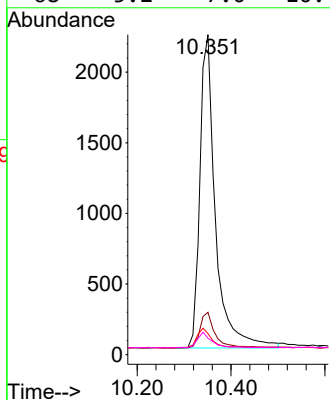
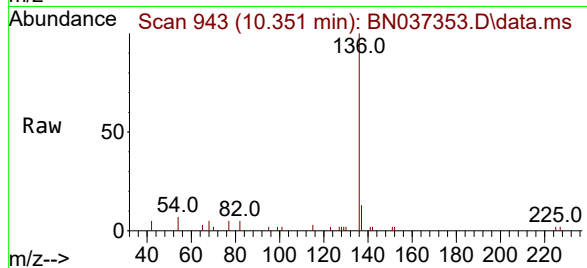




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. 0.011 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

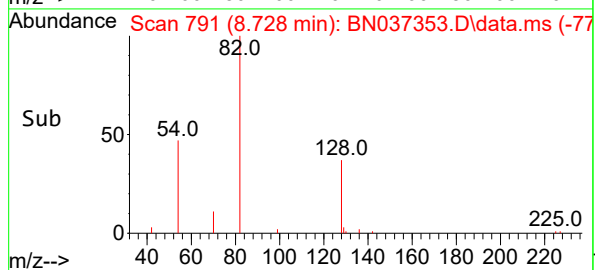
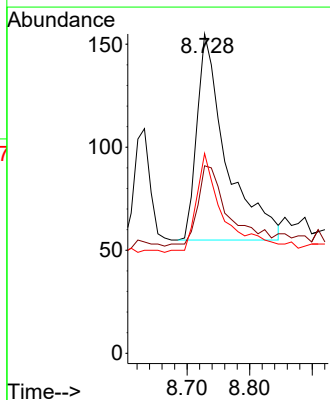
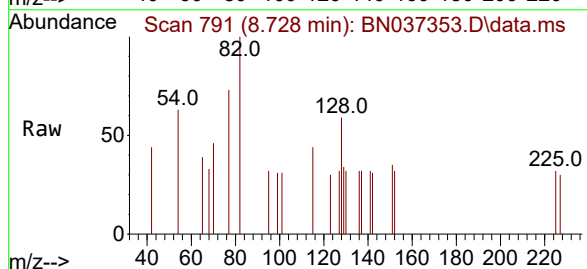
Instrument :
BNA_N
ClientSampleId :
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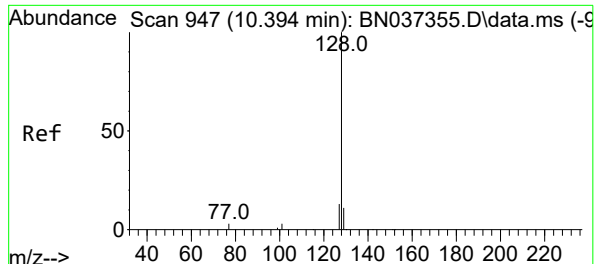
Tgt Ion:	136	Resp:	5110
Ion	Ratio	Lower	Upper
136	100		
137	13.2	12.2	18.2
54	6.6	8.8	13.2#
68	5.2	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 0.077 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.011 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:	82	Resp:	325
Ion	Ratio	Lower	Upper
82	100		
128	58.7	42.5	63.7
54	62.6	43.2	64.8

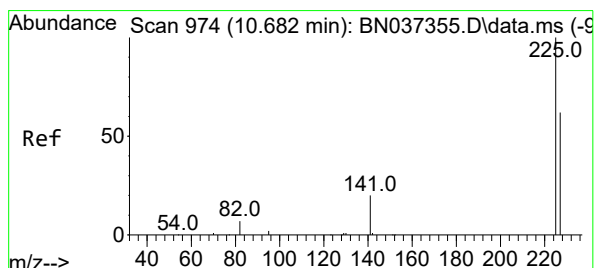
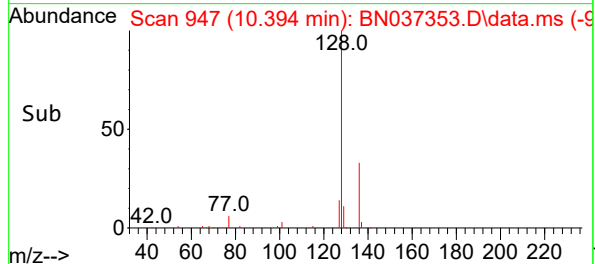
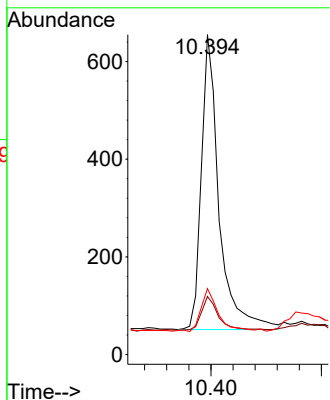
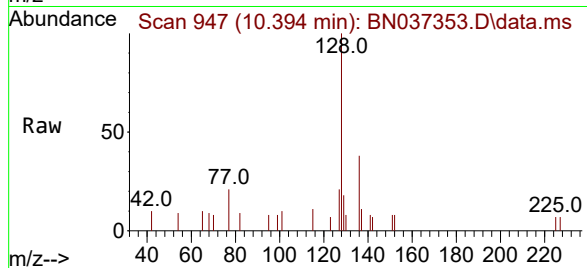




#9
Naphthalene
Concen: 0.102 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

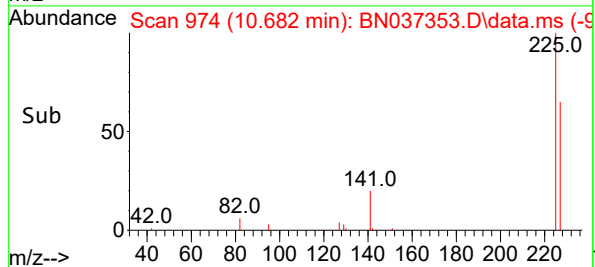
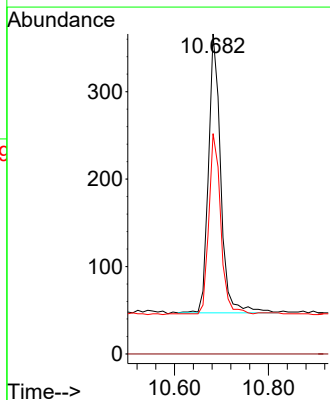
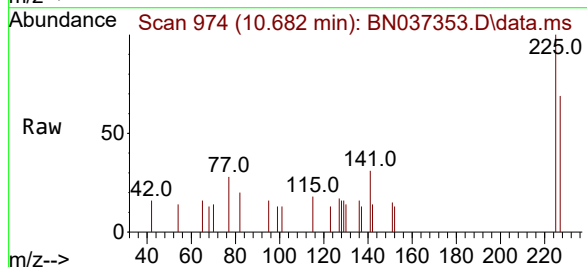
Instrument :
BNA_N
ClientSampleId :
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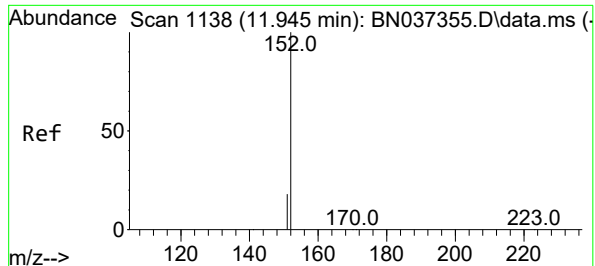
Tgt Ion	128	129	127
Resp:	1349		
Ion Ratio	100	18.2	20.6
Lower		14.0	15.8
Upper		21.0	23.8



#10
Hexachlorobutadiene
Concen: 0.089 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion	225	223	227
Resp:	578		
Ion Ratio	100	0.0	62.1
Lower		0.0	50.3
Upper		0.0	75.5

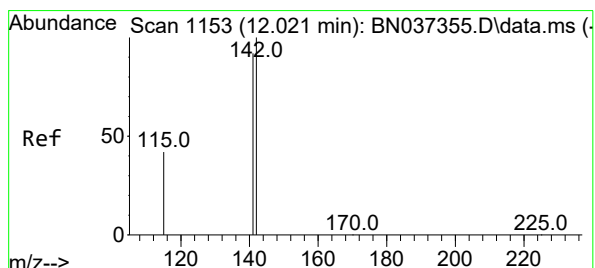
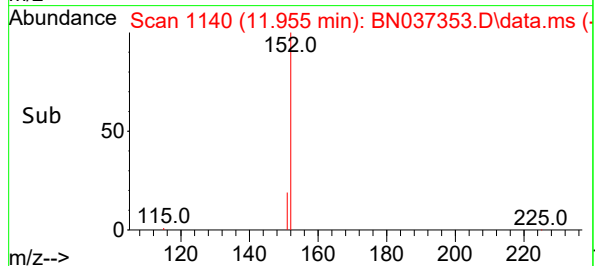
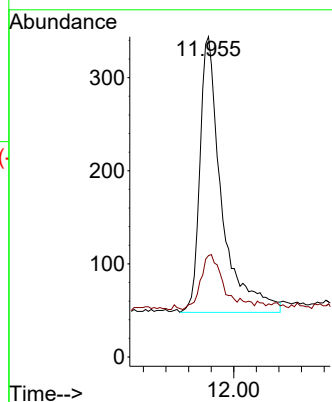
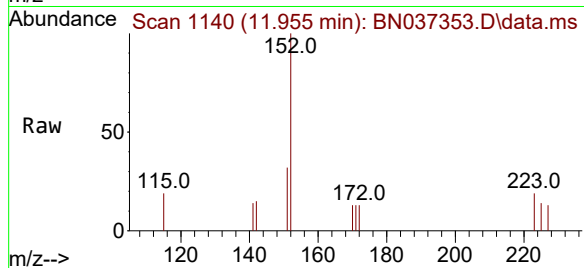




#11
2-Methylnaphthalene-d10
Concen: 0.096 ng
RT: 11.955 min Scan# 1138
Delta R.T. 0.010 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

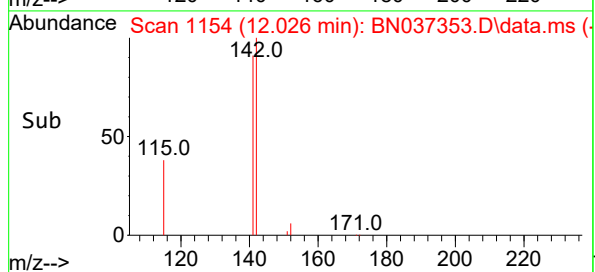
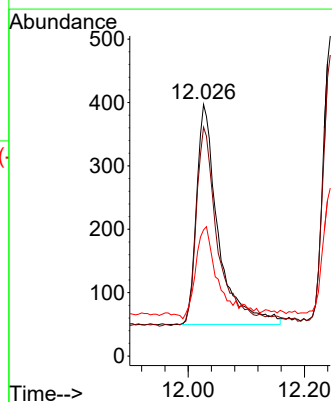
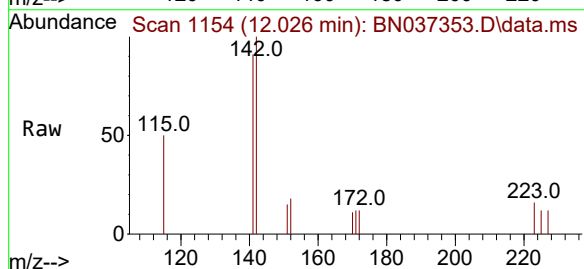
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ClientSampleId :
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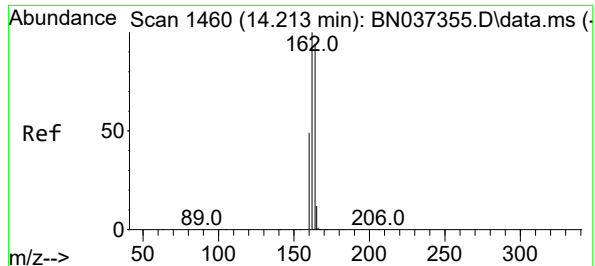
Tgt Ion:152 Resp: 791
Ion Ratio Lower Upper
152 100
151 19.5 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.096 ng
RT: 12.026 min Scan# 1154
Delta R.T. 0.005 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:142 Resp: 898
Ion Ratio Lower Upper
142 100
141 90.9 70.2 105.2
115 50.1 43.0 64.4

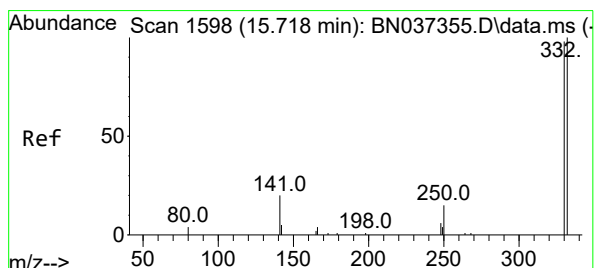
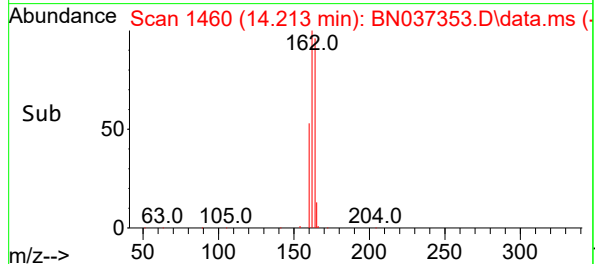
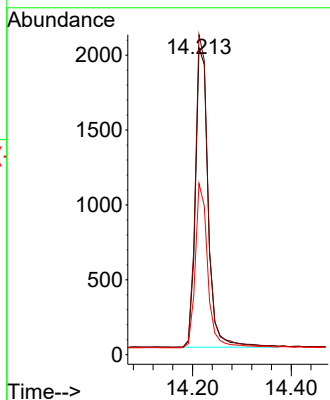
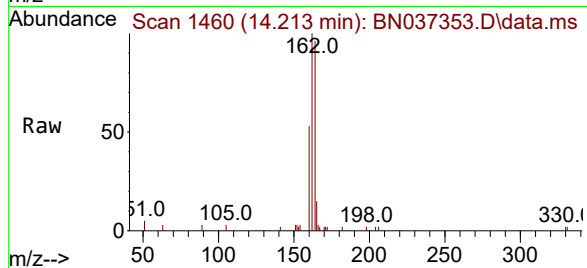




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

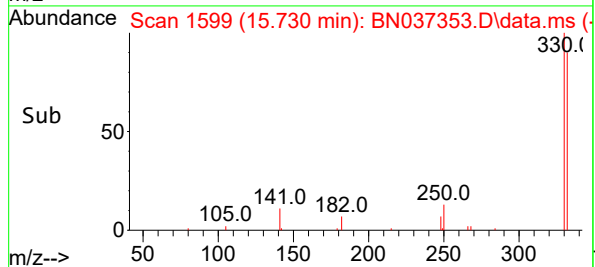
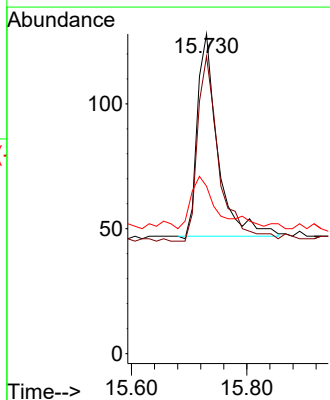
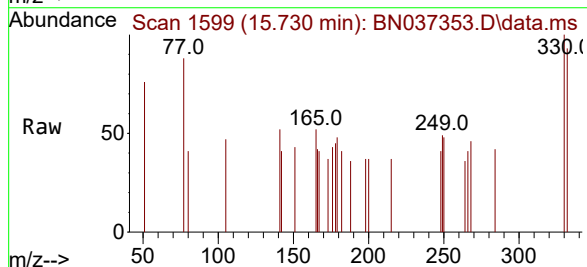
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

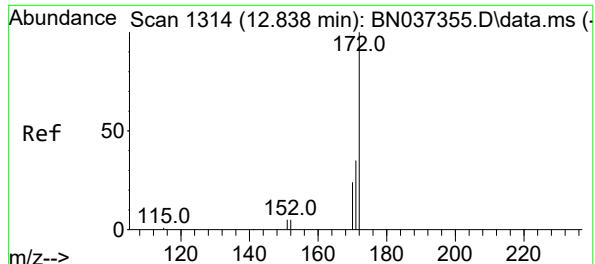
Tgt Ion:164 Resp: 3596
Ion Ratio Lower Upper
164 100
162 104.3 81.5 122.3
160 55.8 43.0 64.4



#14
2,4,6-Tribromophenol
Concen: 0.077 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.012 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:330 Resp: 197
Ion Ratio Lower Upper
330 100
332 97.5 78.4 117.6
141 33.5 24.4 36.6

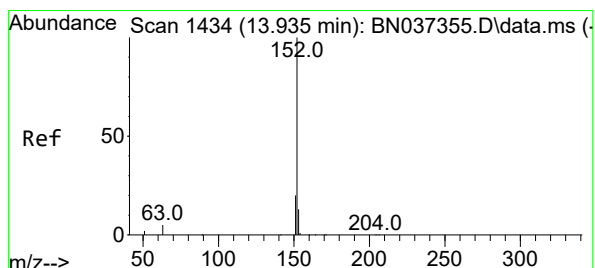
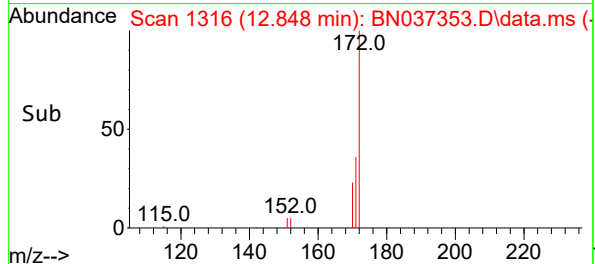
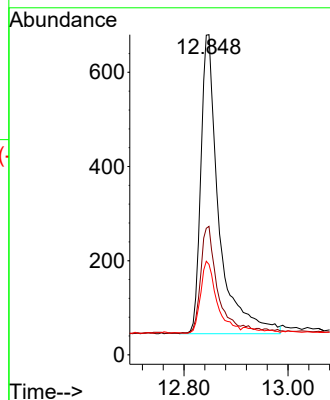
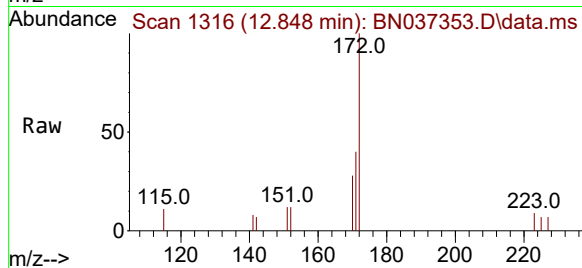




#15
2-Fluorobiphenyl
Concen: 0.097 ng
RT: 12.848 min Scan# 1316
Delta R.T. 0.010 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

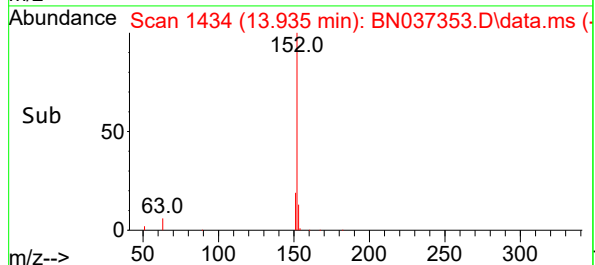
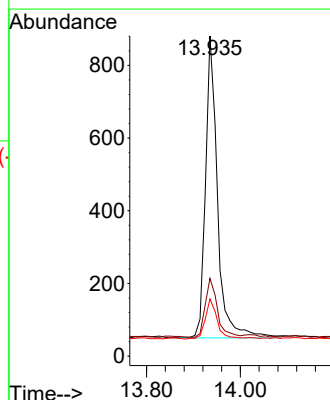
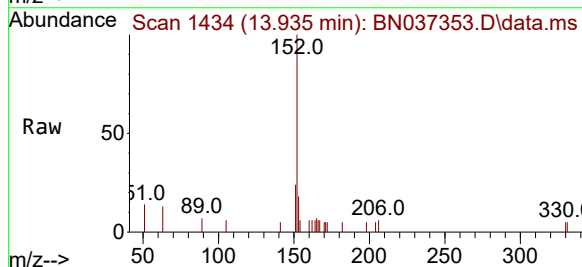
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

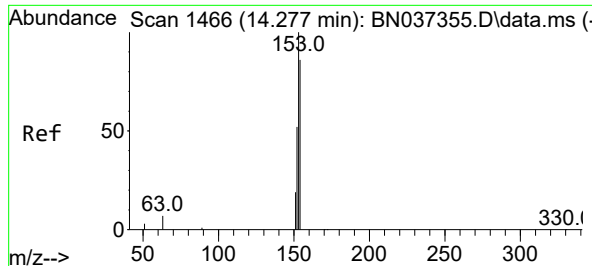
Tgt Ion:172 Resp: 1533
Ion Ratio Lower Upper
172 100
171 40.1 30.8 46.2
170 28.2 21.9 32.9



#16
Acenaphthylene
Concen: 0.098 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:152 Resp: 1480
Ion Ratio Lower Upper
152 100
151 19.5 16.6 24.8
153 13.2 10.2 15.2

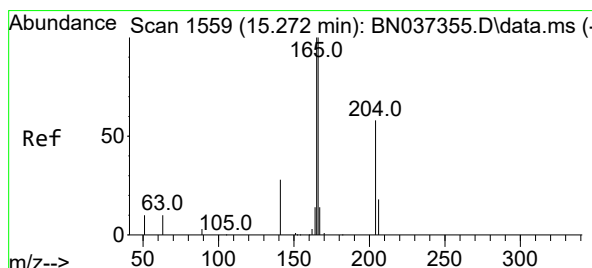
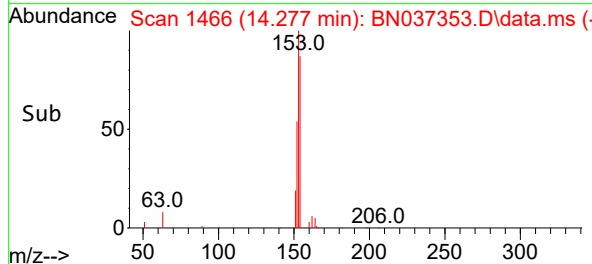
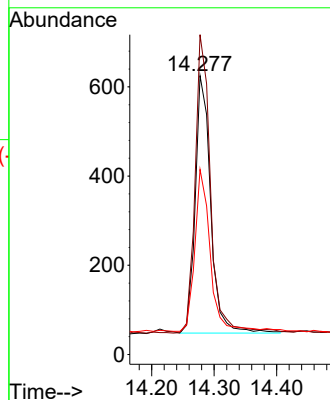
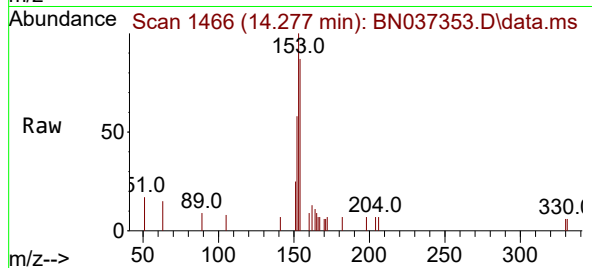




#17
Acenaphthene
Concen: 0.100 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

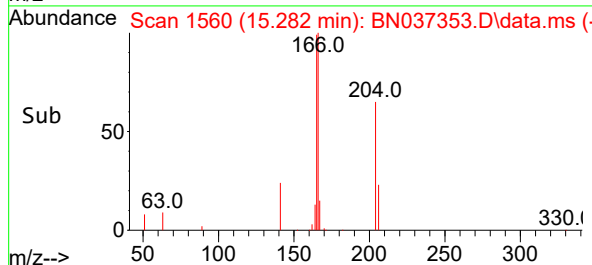
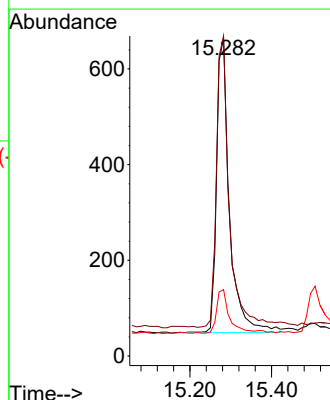
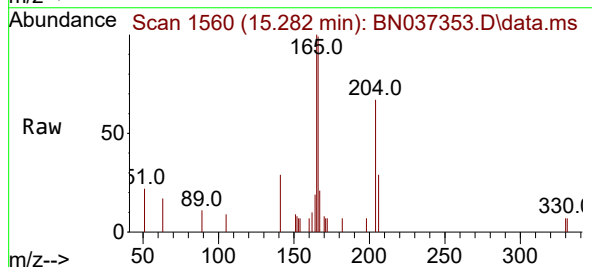
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

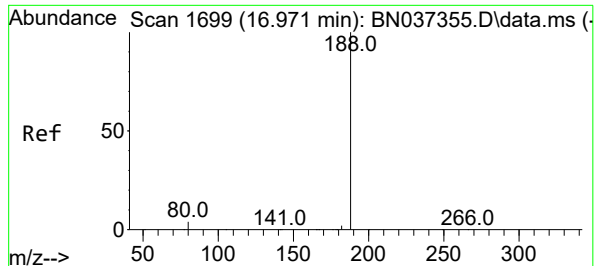
Tgt Ion:154 Resp: 996
Ion Ratio Lower Upper
154 100
153 116.2 93.1 139.7
152 62.9 48.6 73.0



#18
Fluorene
Concen: 0.095 ng
RT: 15.282 min Scan# 1560
Delta R.T. 0.011 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:166 Resp: 1348
Ion Ratio Lower Upper
166 100
165 99.0 79.5 119.3
167 15.1 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

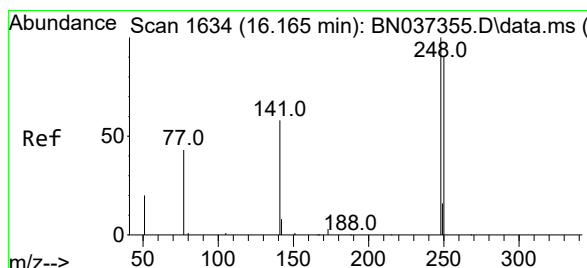
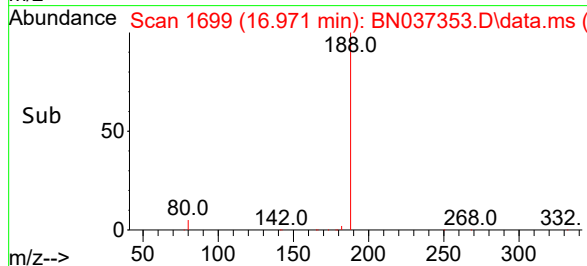
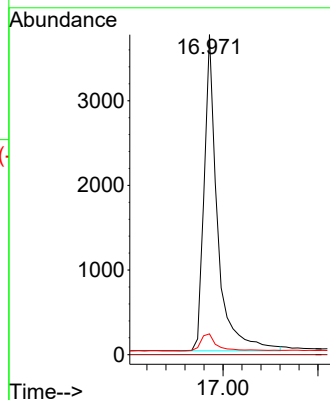
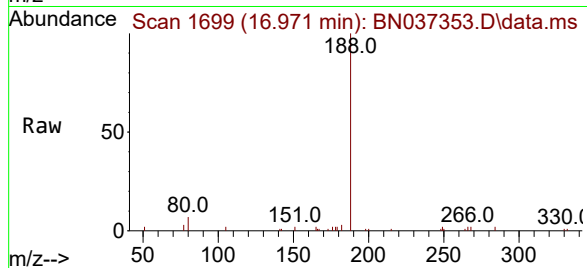
Tgt Ion:188 Resp: 7299

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.5 6.2 9.2



#21

4-Bromophenyl-phenylether

Concen: 0.081 ng

RT: 16.177 min Scan# 1635

Delta R.T. 0.012 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

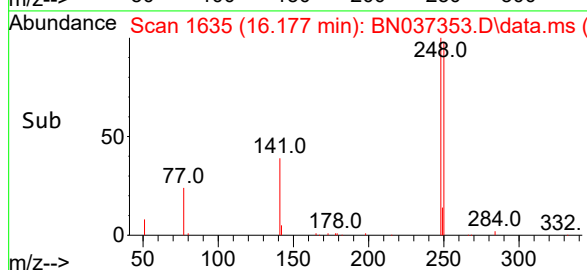
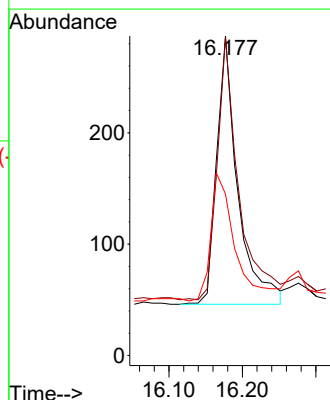
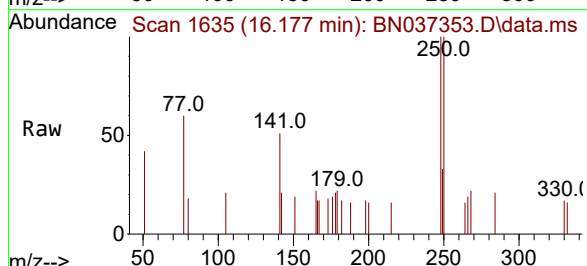
Tgt Ion:248 Resp: 482

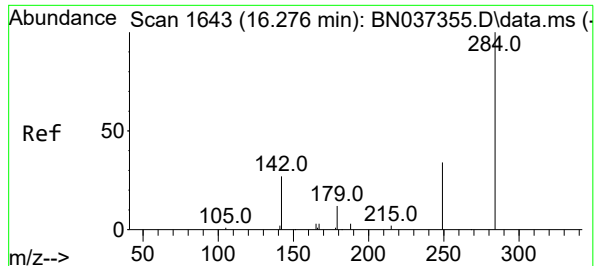
Ion Ratio Lower Upper

248 100

250 99.7 80.4 120.6

141 50.5 33.3 49.9#





#22

Hexachlorobenzene

Concen: 0.095 ng

RT: 16.276 min Scan# 1643

Delta R.T. -0.000 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

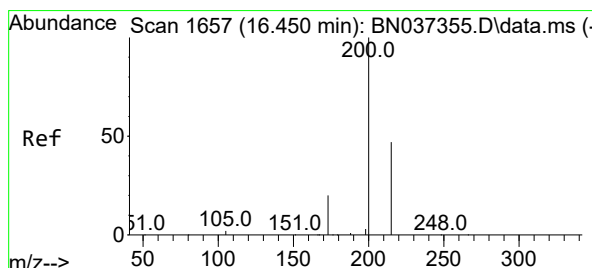
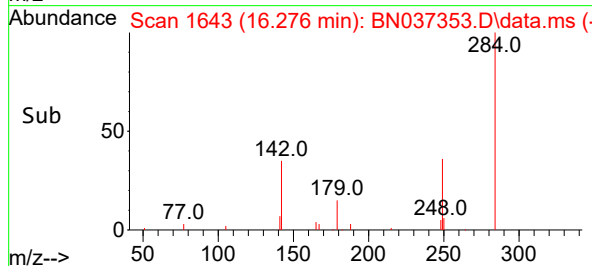
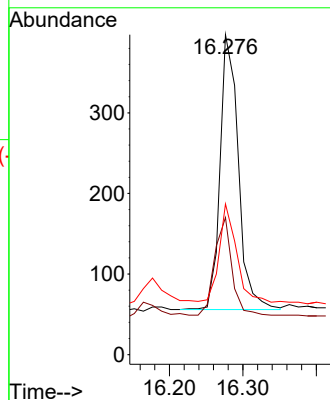
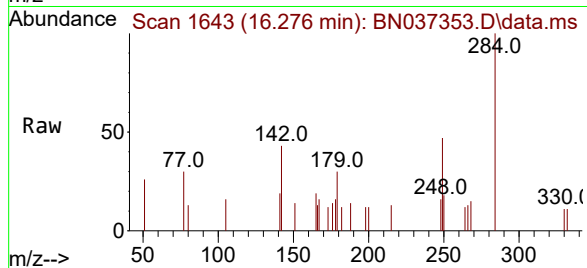
Tgt Ion:284 Resp: 588

Ion Ratio Lower Upper

284 100

142 35.9 27.0 40.6

249 36.7 28.8 43.2



#23

Atrazine

Concen: 0.087 ng

RT: 16.450 min Scan# 1657

Delta R.T. -0.000 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

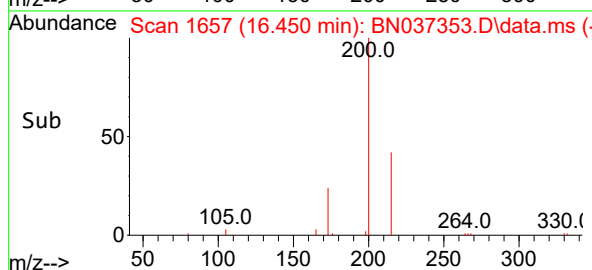
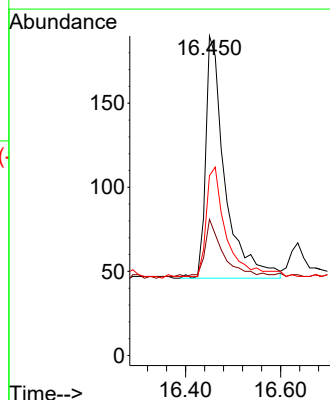
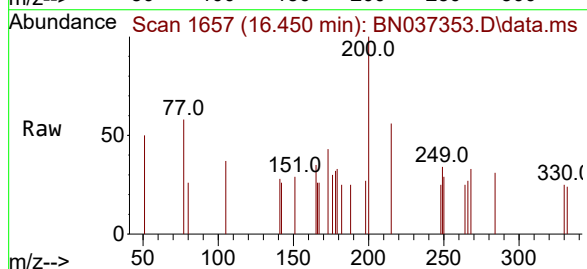
Tgt Ion:200 Resp: 404

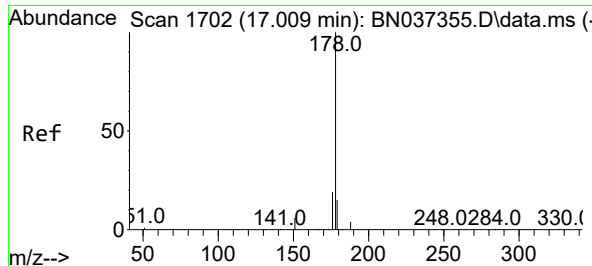
Ion Ratio Lower Upper

200 100

173 42.6 29.2 43.8

215 56.3 48.8 73.2





#25

Phenanthrene

Concen: 0.098 ng

RT: 17.009 min Scan# 1710

Delta R.T. -0.000 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

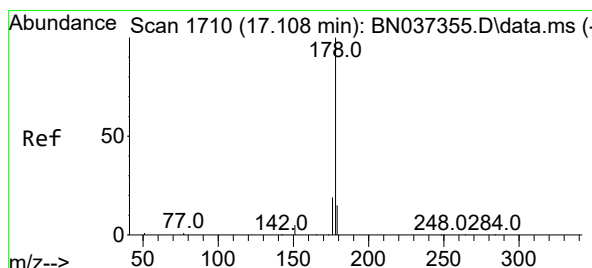
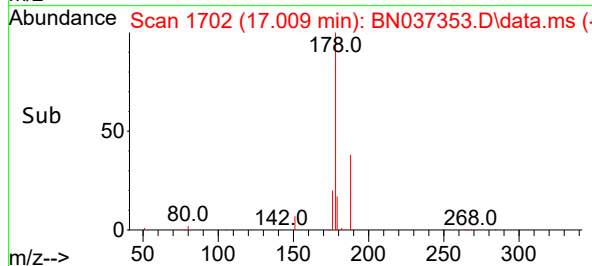
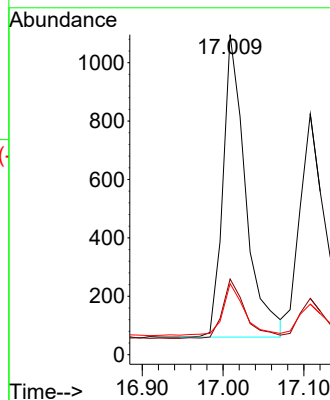
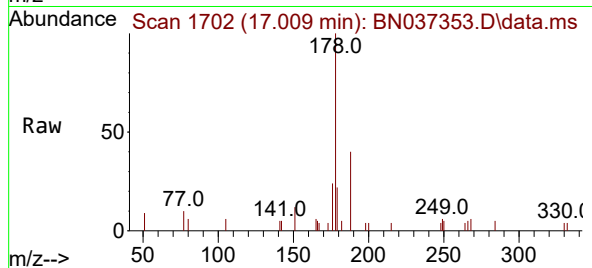
Tgt Ion:178 Resp: 2021

Ion Ratio Lower Upper

178 100

176 19.4 15.2 22.8

179 16.8 12.9 19.3



#26

Anthracene

Concen: 0.094 ng

RT: 17.108 min Scan# 1710

Delta R.T. -0.000 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

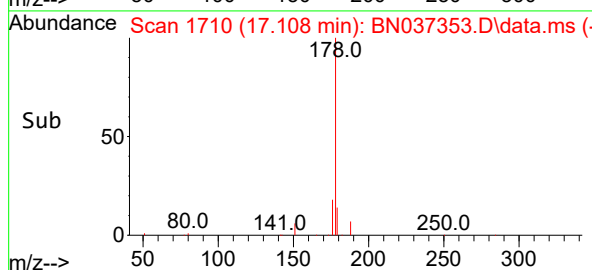
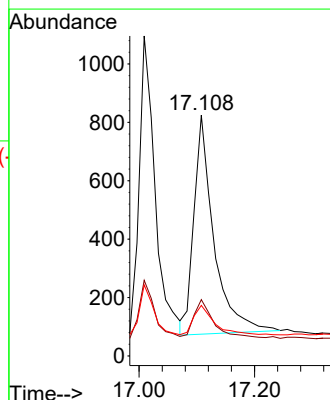
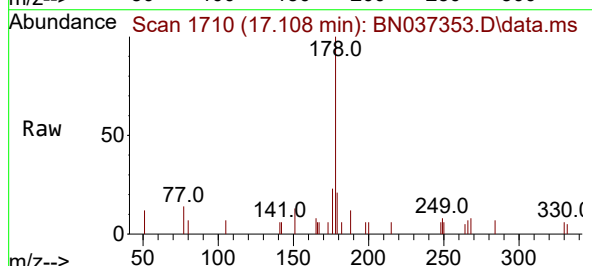
Tgt Ion:178 Resp: 1812

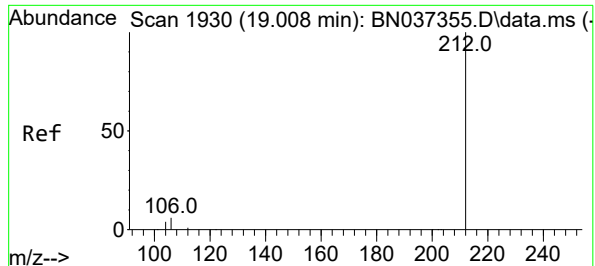
Ion Ratio Lower Upper

178 100

176 18.8 14.7 22.1

179 14.8 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.088 ng

RT: 19.012 min Scan# 1931

Delta R.T. 0.005 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

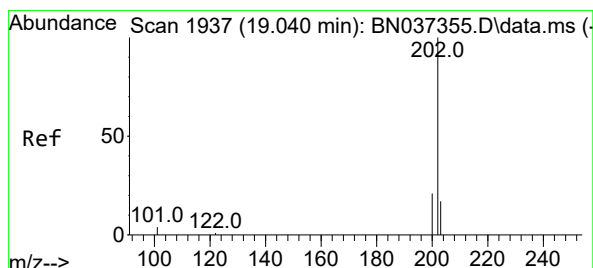
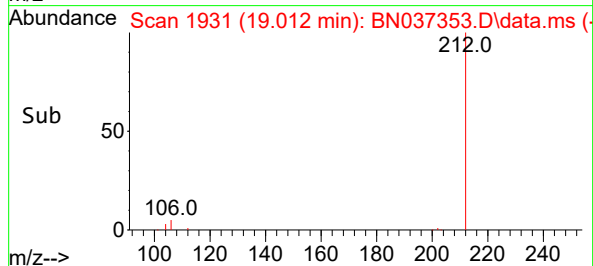
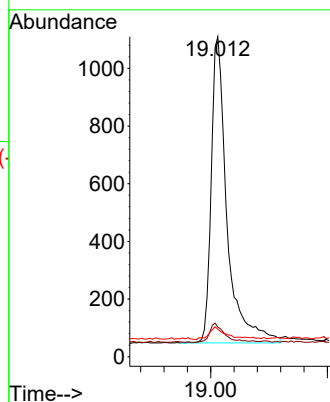
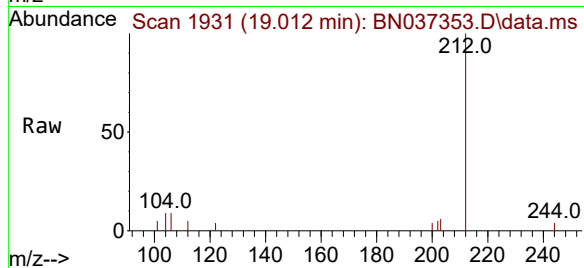
Tgt Ion:212 Resp: 2001

Ion Ratio Lower Upper

212 100

106 5.8 3.0 4.4#

104 4.1 2.0 3.0#



#28

Fluoranthene

Concen: 0.091 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.005 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

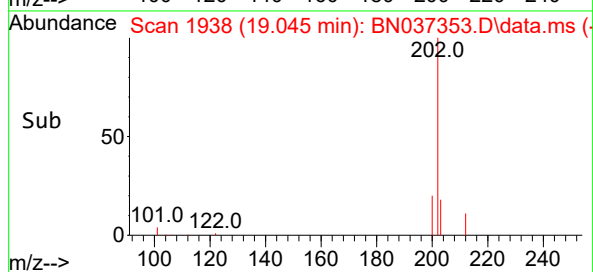
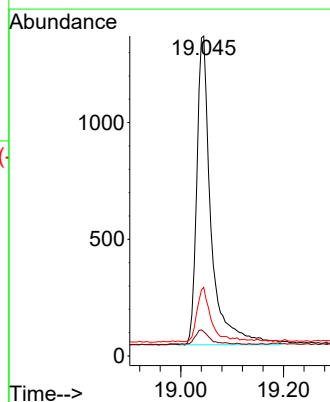
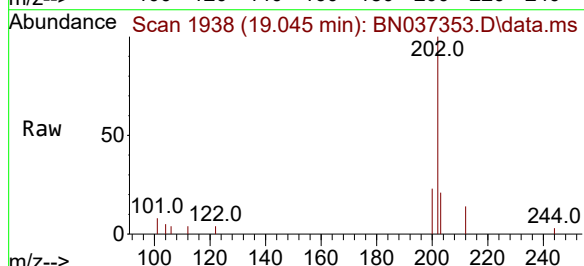
Tgt Ion:202 Resp: 2576

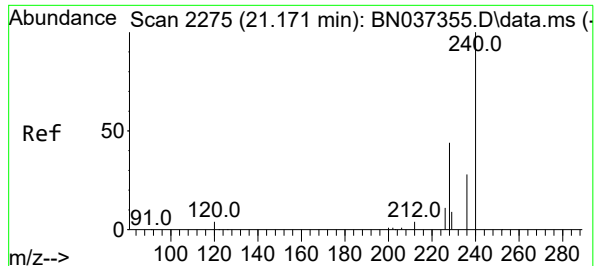
Ion Ratio Lower Upper

202 100

101 4.7 3.0 4.6#

203 17.5 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

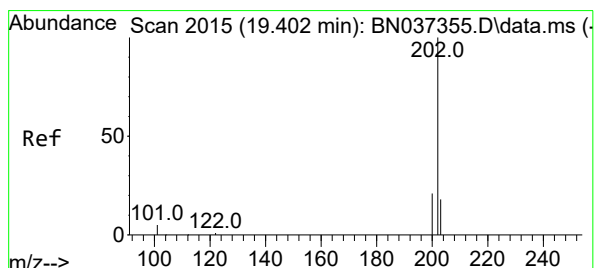
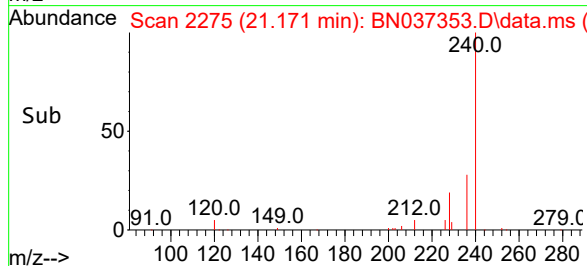
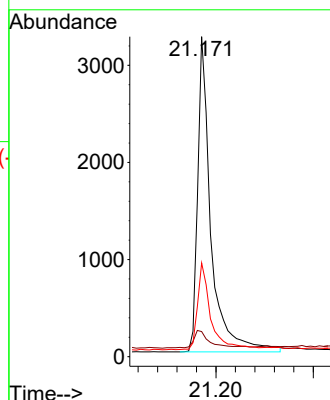
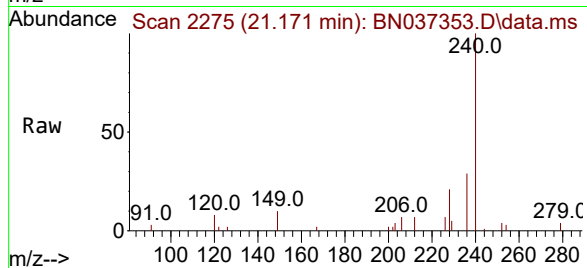
Tgt Ion:240 Resp: 6135

Ion Ratio Lower Upper

240 100

120 7.9 7.5 11.3

236 29.3 24.9 37.3



#30

Pyrene

Concen: 0.113 ng

RT: 19.407 min Scan# 2016

Delta R.T. 0.005 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

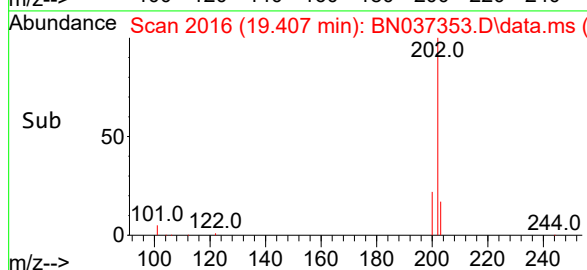
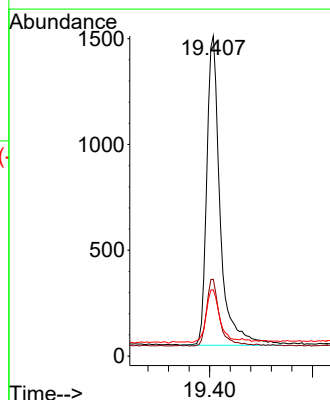
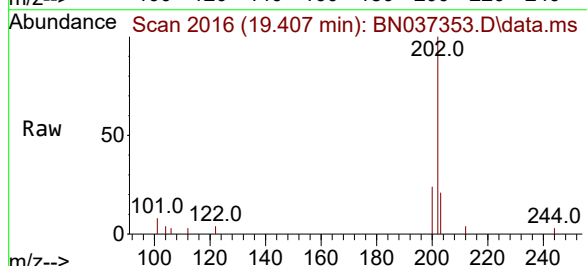
Tgt Ion:202 Resp: 2647

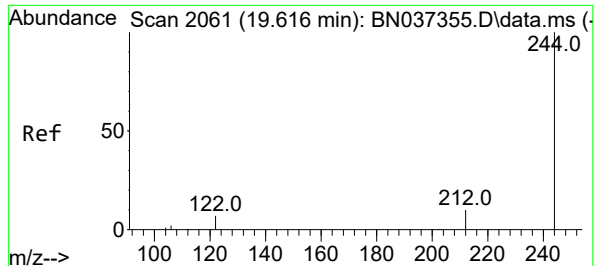
Ion Ratio Lower Upper

202 100

200 21.1 16.8 25.2

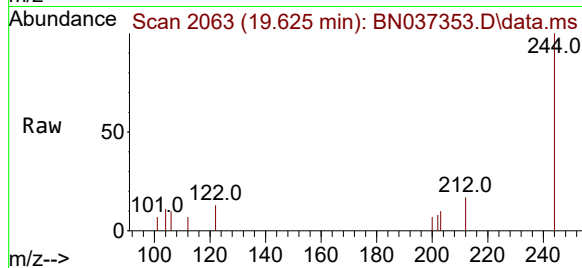
203 17.4 14.5 21.7



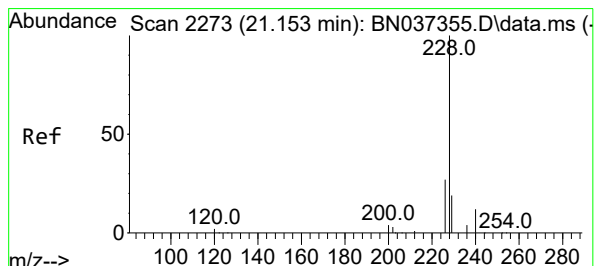
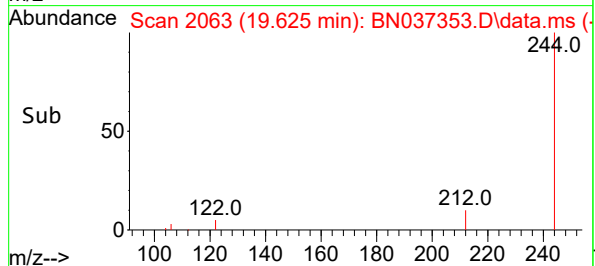
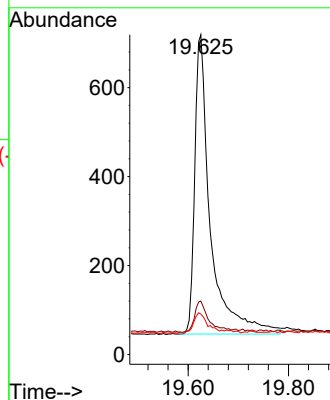


#31
Terphenyl-d14
Concen: 0.104 ng
RT: 19.625 min Scan# 2063
Delta R.T. 0.009 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

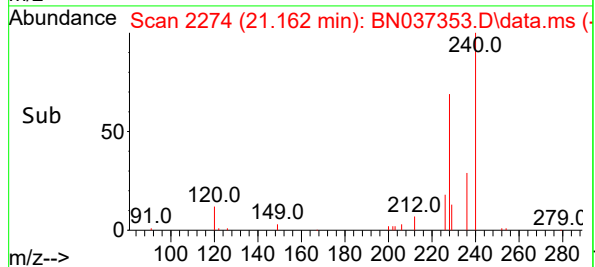
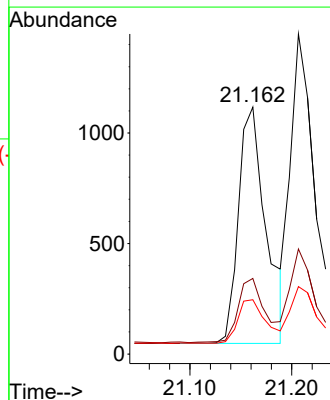
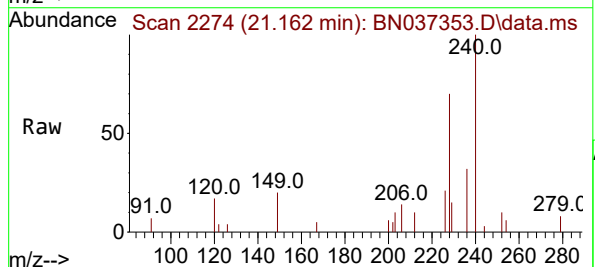


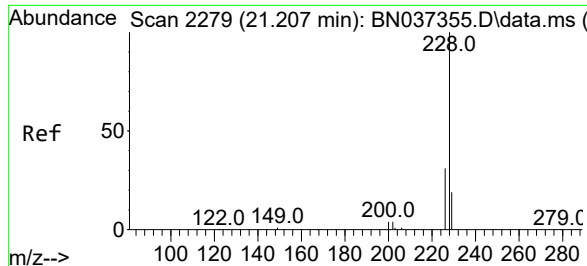
Tgt Ion:244 Resp: 1456
Ion Ratio Lower Upper
244 100
212 16.7 11.1 16.7#
122 12.7 7.2 10.8#



#32
Benzo(a)anthracene
Concen: 0.101 ng
RT: 21.162 min Scan# 2274
Delta R.T. 0.009 min
Lab File: BN037353.D
Acq: 20 Jun 2025 16:51

Tgt Ion:228 Resp: 2007
Ion Ratio Lower Upper
228 100
226 30.6 23.0 34.4
229 22.0 17.4 26.0





#33

Chrysene

Concen: 0.107 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

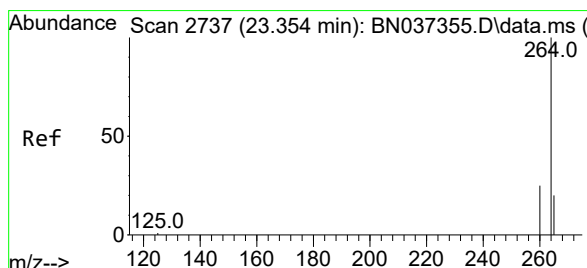
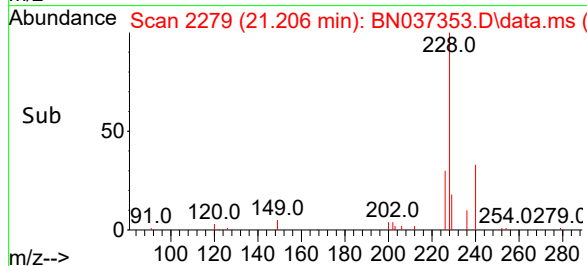
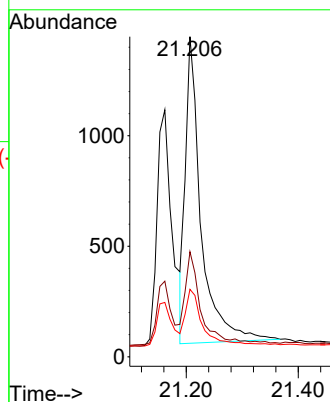
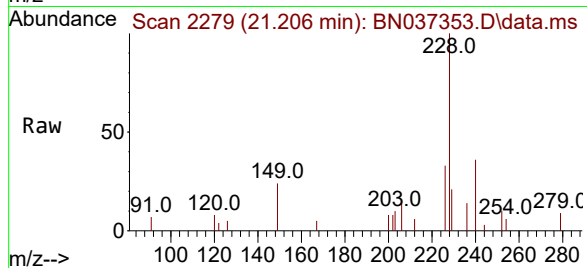
Tgt Ion:228 Resp: 2687

Ion Ratio Lower Upper

228 100

226 32.8 25.4 38.2

229 21.1 17.3 25.9



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.357 min Scan# 2738

Delta R.T. 0.003 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

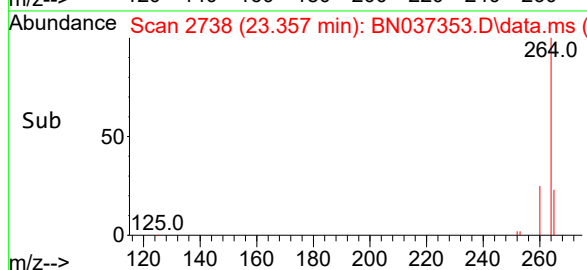
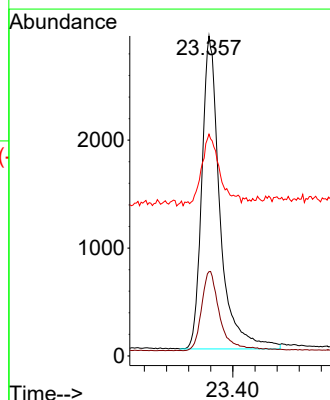
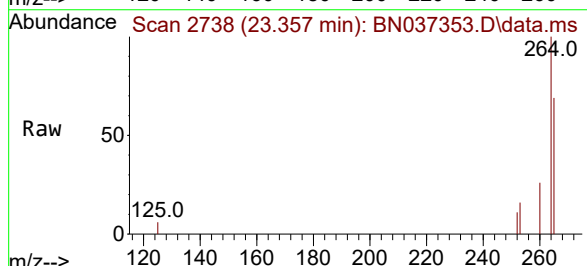
Tgt Ion:264 Resp: 6598

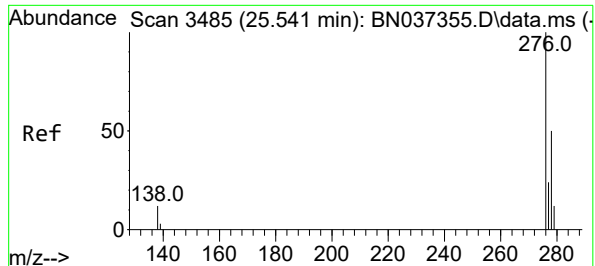
Ion Ratio Lower Upper

264 100

260 26.4 21.4 32.2

265 69.3 71.4 107.0#





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.103 ng

RT: 25.550 min Scan# 3488

Delta R.T. 0.009 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

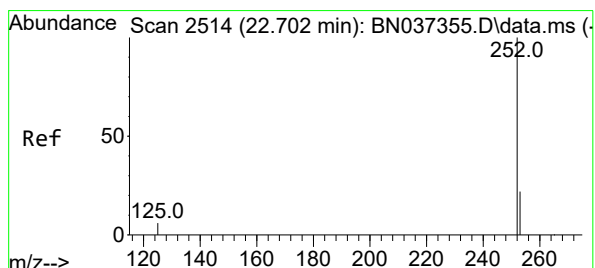
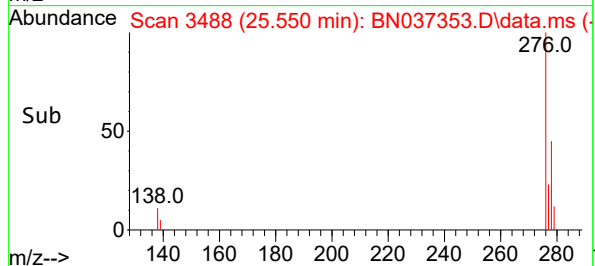
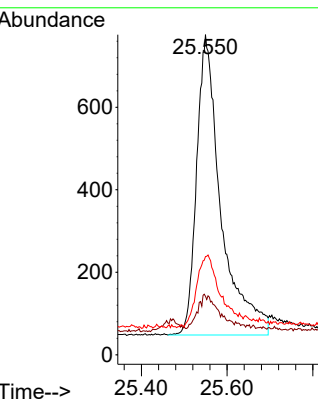
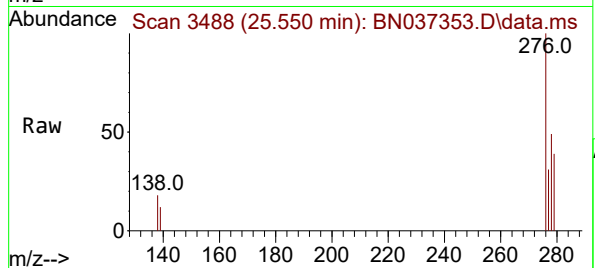
Tgt Ion:276 Resp: 2871

Ion Ratio Lower Upper

276 100

138 4.2 2.2 3.2#

277 22.3 17.1 25.7



#37

Benzo(b)fluoranthene

Concen: 0.101 ng

RT: 22.708 min Scan# 2516

Delta R.T. 0.006 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

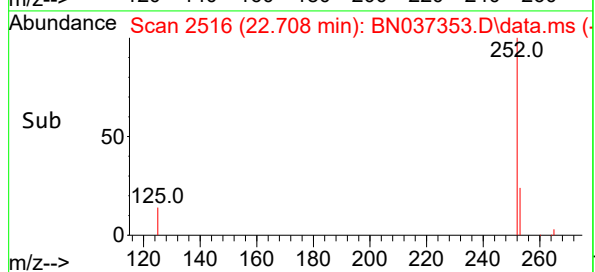
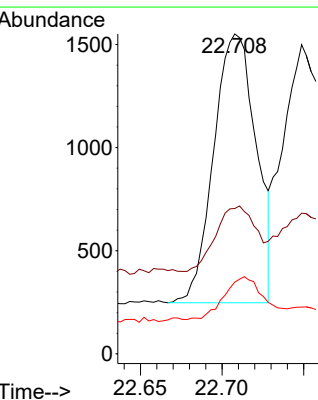
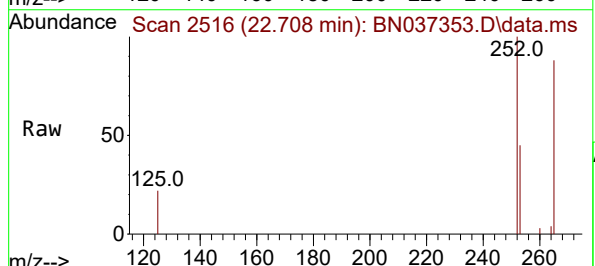
Tgt Ion:252 Resp: 2355

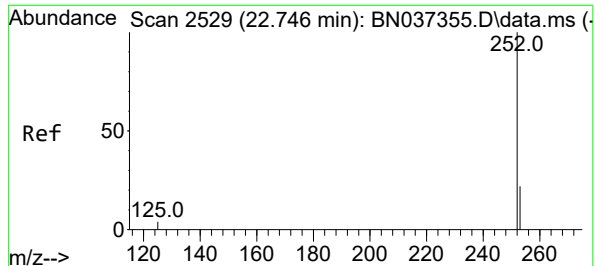
Ion Ratio Lower Upper

252 100

253 45.5 26.6 40.0#

125 22.4 6.1 9.1#





#38

Benzo(k)fluoranthene

Concen: 0.102 ng

RT: 22.749 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

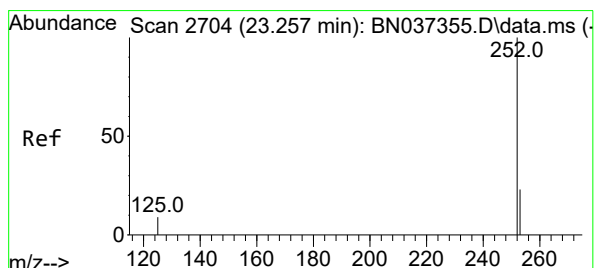
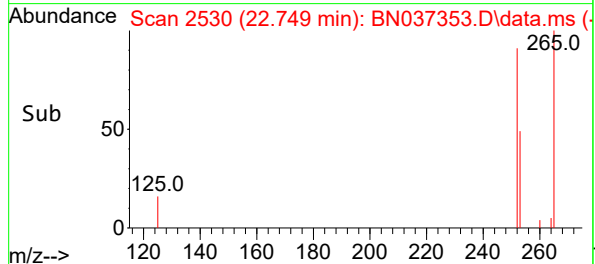
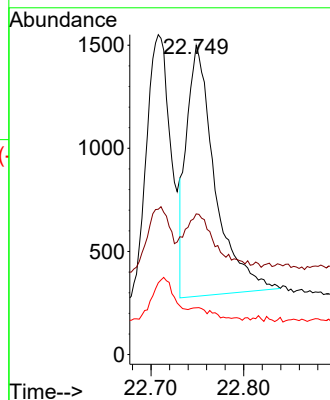
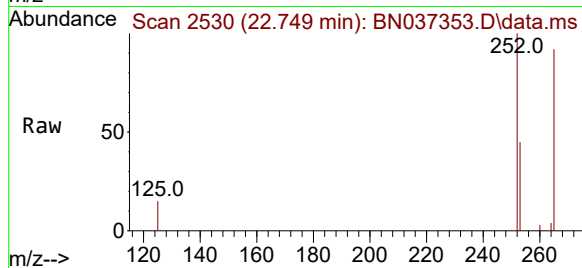
Tgt Ion:252 Resp: 2600

Ion Ratio Lower Upper

252 100

253 45.5 26.7 40.1#

125 15.1 6.5 9.7#



#39

Benzo(a)pyrene

Concen: 0.102 ng

RT: 23.263 min Scan# 2706

Delta R.T. 0.006 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

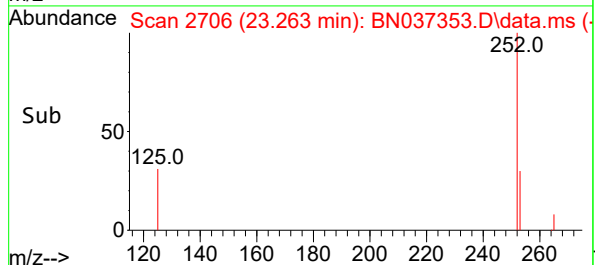
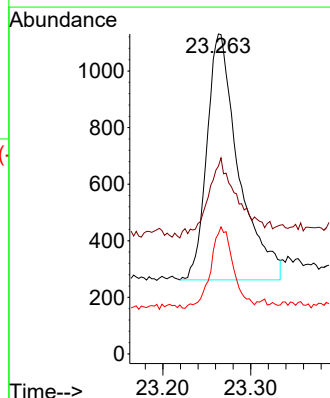
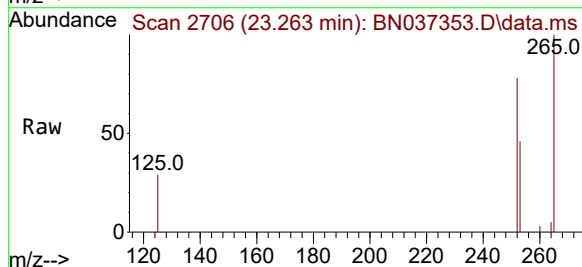
Tgt Ion:252 Resp: 2178

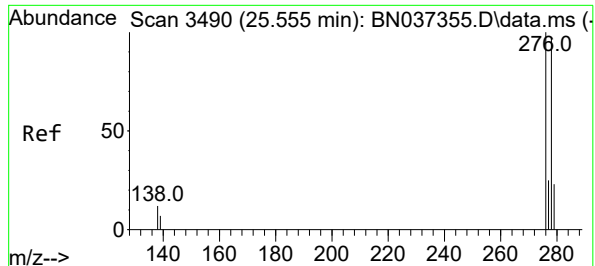
Ion Ratio Lower Upper

252 100

253 58.7 31.6 47.4#

125 37.6 8.4 12.6#





#40

Dibenzo(a,h)anthracene

Concen: 0.087 ng

RT: 25.567 min Scan# 3494

Delta R.T. 0.012 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

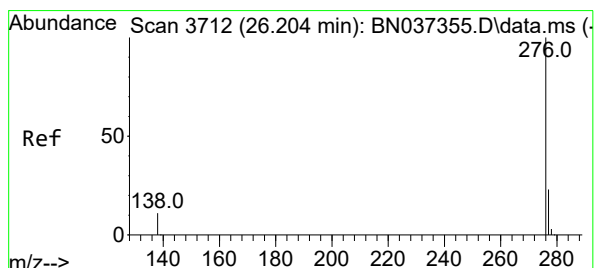
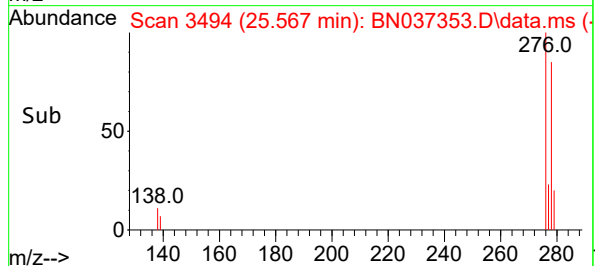
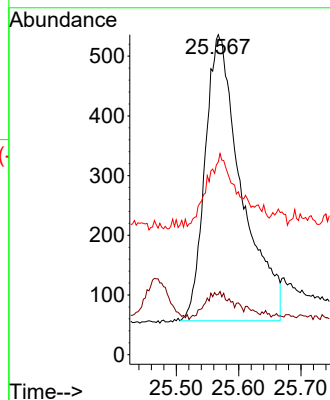
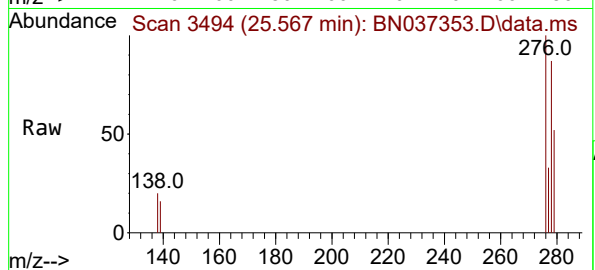
Tgt Ion:278 Resp: 1944

Ion Ratio Lower Upper

278 100

139 18.8 10.2 15.4#

279 60.3 35.6 53.4#



#41

Benzo(g,h,i)perylene

Concen: 0.104 ng

RT: 26.213 min Scan# 3715

Delta R.T. 0.009 min

Lab File: BN037353.D

Acq: 20 Jun 2025 16:51

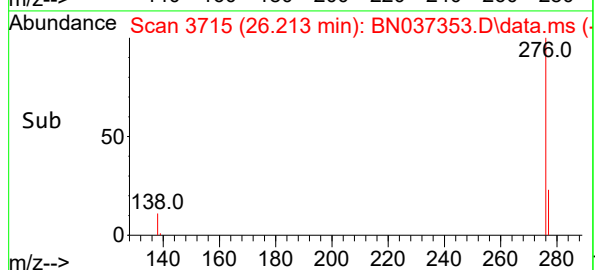
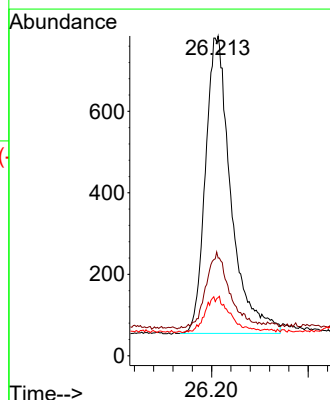
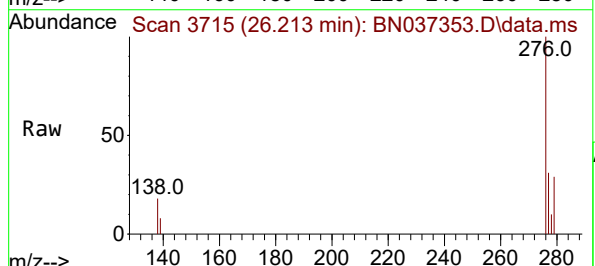
Tgt Ion:276 Resp: 2673

Ion Ratio Lower Upper

276 100

277 30.6 22.7 34.1

138 18.2 9.4 14.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037354.D
 Acq On : 20 Jun 2025 17:27
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

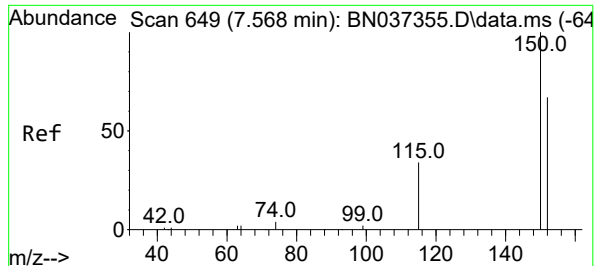
Quant Time: Jun 20 23:26:34 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:25:11 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1865	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	3983	0.400	ng	# 0.01
13) Acenaphthene-d10	14.213	164	2790	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5628	0.400	ng	0.00
29) Chrysene-d12	21.171	240	4640	0.400	ng	0.00
35) Perylene-d12	23.354	264	4914	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	763	0.224	ng	0.00
5) Phenol-d6	6.752	99	714	0.212	ng	0.00
8) Nitrobenzene-d5	8.728	82	582	0.176	ng	0.01
11) 2-Methylnaphthalene-d10	11.950	152	1271	0.197	ng	0.00
14) 2,4,6-Tribromophenol	15.730	330	315	0.158	ng	0.01
15) 2-Fluorobiphenyl	12.843	172	2337	0.191	ng	0.00
27) Fluoranthene-d10	19.008	212	3010	0.172	ng	0.00
31) Terphenyl-d14	19.621	244	2114	0.200	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	472	0.287	ng	Qvalue 98
3) n-Nitrosodimethylamine	3.422	42	366	0.191	ng	# 79
6) bis(2-Chloroethyl)ether	7.012	93	509	0.172	ng	95
9) Naphthalene	10.394	128	2104	0.204	ng	94
10) Hexachlorobutadiene	10.682	225	864	0.171	ng	# 99
12) 2-Methylnaphthalene	12.026	142	1379	0.190	ng	93
16) Acenaphthylene	13.935	152	2282	0.195	ng	97
17) Acenaphthene	14.277	154	1492	0.192	ng	99
18) Fluorene	15.282	166	2051	0.186	ng	100
20) 4,6-Dinitro-2-methylph...	15.378	198	196	0.115	ng	# 68
21) 4-Bromophenyl-phenylether	16.177	248	750	0.163	ng	96
22) Hexachlorobenzene	16.276	284	898	0.187	ng	98
23) Atrazine	16.450	200	604	0.168	ng	96
24) Pentachlorophenol	16.636	266	369	0.140	ng	97
25) Phenanthrene	17.009	178	3024	0.190	ng	98
26) Anthracene	17.108	178	2769	0.186	ng	97
28) Fluoranthene	19.040	202	3780	0.174	ng	# 98
30) Pyrene	19.402	202	3921	0.221	ng	99
32) Benzo(a)anthracene	21.153	228	2710	0.181	ng	98
33) Chrysene	21.206	228	3959	0.208	ng	99
34) Bis(2-ethylhexyl)phtha...	21.099	149	1406	0.229	ng	98
36) Indeno(1,2,3-cd)pyrene	25.547	276	4213	0.202	ng	# 95
37) Benzo(b)fluoranthene	22.702	252	3390	0.195	ng	# 90
38) Benzo(k)fluoranthene	22.746	252	3913	0.207	ng	# 90
39) Benzo(a)pyrene	23.260	252	3070	0.193	ng	# 79
40) Dibenzo(a,h)anthracene	25.564	278	2911	0.175	ng	# 93
41) Benzo(g,h,i)perylene	26.207	276	3819	0.200	ng	# 96

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

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

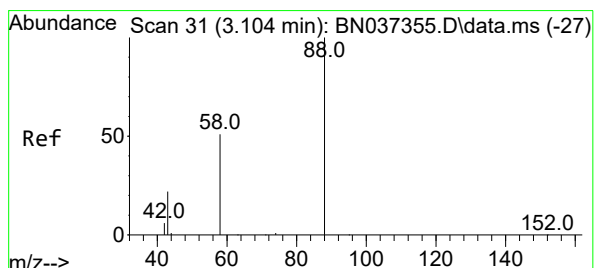
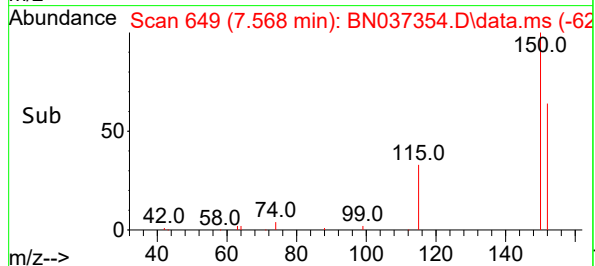
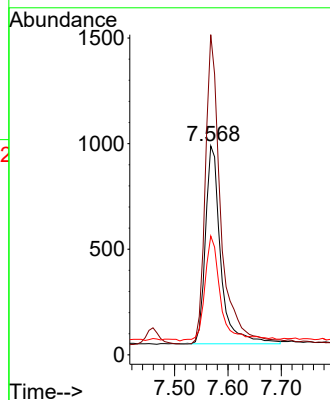
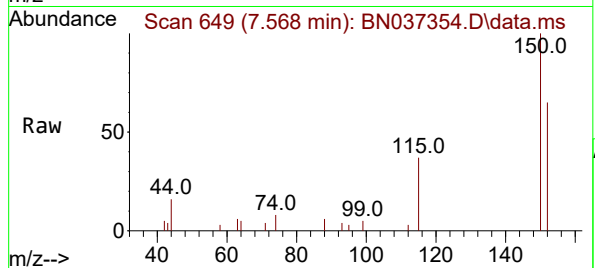
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18



#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

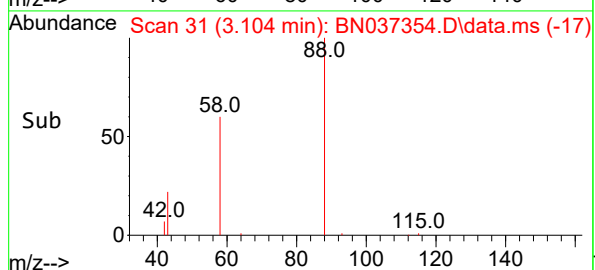
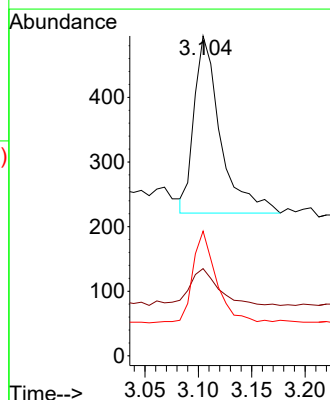
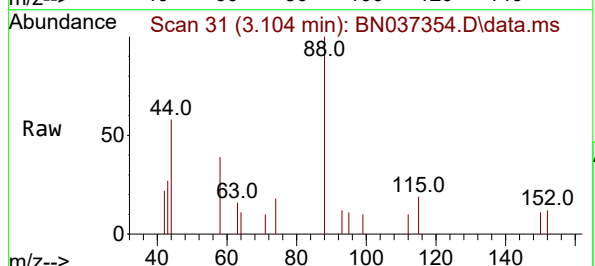
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 1865
Ion Ratio Lower Upper
152 100
150 153.3 112.7 169.1
115 56.9 45.9 68.9

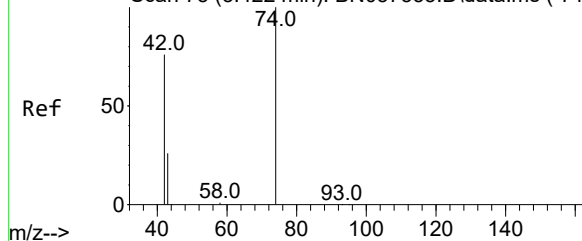


#2
1,4-Dioxane
Concen: 0.287 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

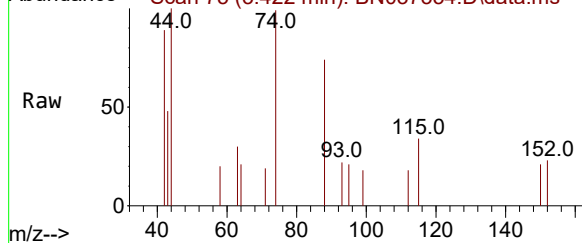
Tgt Ion: 88 Resp: 472
Ion Ratio Lower Upper
88 100
43 23.9 21.0 31.6
58 46.8 38.0 57.0



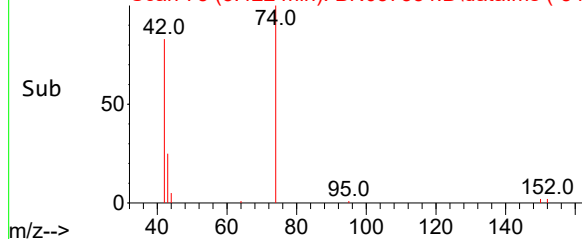
Abundance Scan 75 (3.422 min): BN037355.D\data.ms (-71)



Abundance Scan 75 (3.422 min): BN037354.D\data.ms



Abundance Scan 75 (3.422 min): BN037354.D\data.ms (-54)



#3

n-Nitrosodimethylamine

Concen: 0.191 ng

RT: 3.422 min Scan# 71

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

Tgt Ion: 42 Resp: 366

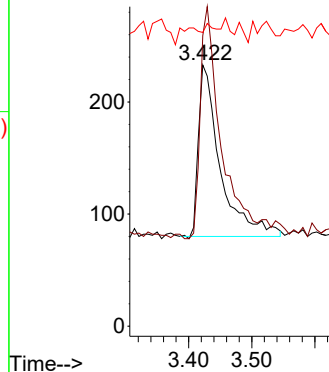
Ion Ratio Lower Upper

42 100

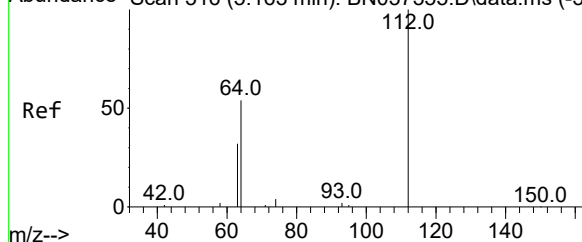
74 128.1 84.3 126.5#

44 2.5 5.0 7.4#

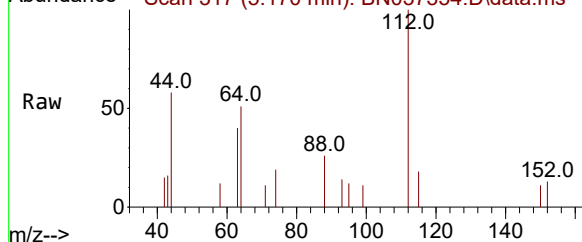
Abundance



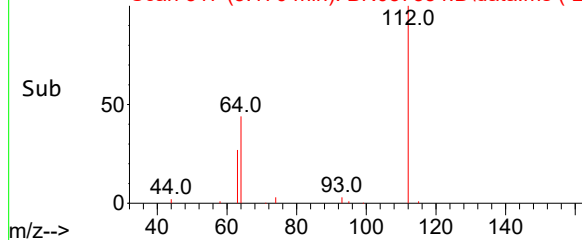
Abundance Scan 316 (5.163 min): BN037355.D\data.ms (-30)



Abundance Scan 317 (5.170 min): BN037354.D\data.ms



Abundance Scan 317 (5.170 min): BN037354.D\data.ms (-28)



#4

2-Fluorophenol

Concen: 0.224 ng

RT: 5.170 min Scan# 317

Delta R.T. 0.007 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

Tgt Ion: 112 Resp: 763

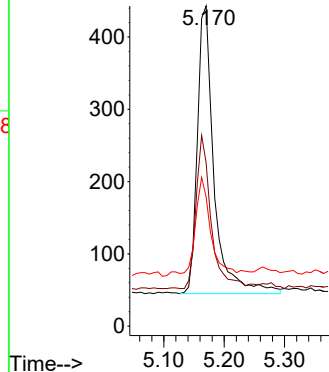
Ion Ratio Lower Upper

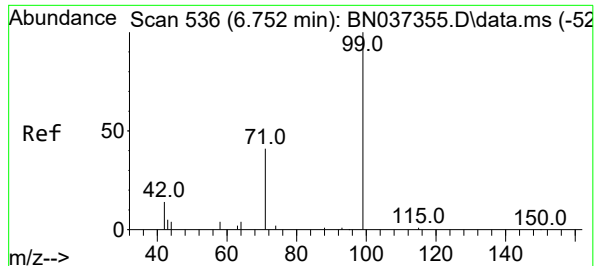
112 100

64 48.2 38.7 58.1

63 32.4 26.4 39.6

Abundance

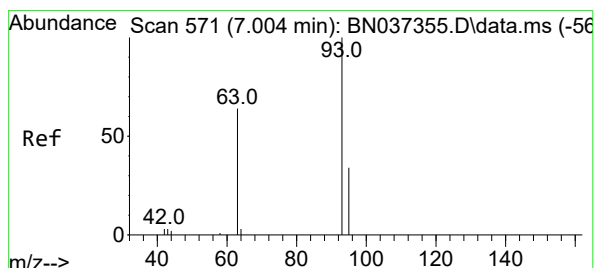
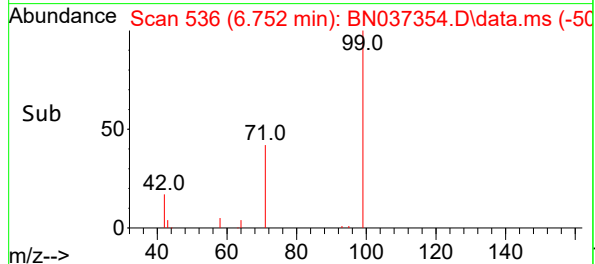
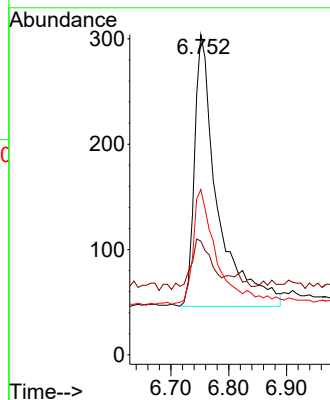
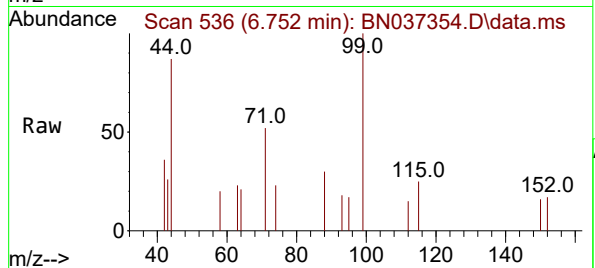




#5
Phenol-d6
Concen: 0.212 ng
RT: 6.752 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

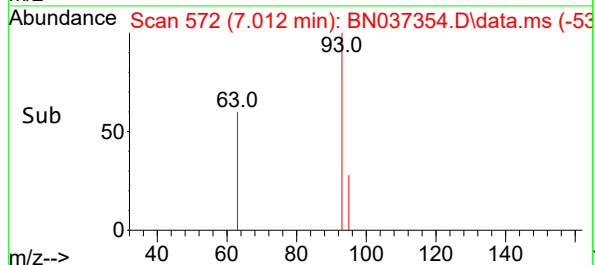
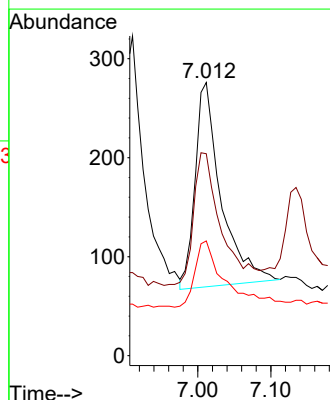
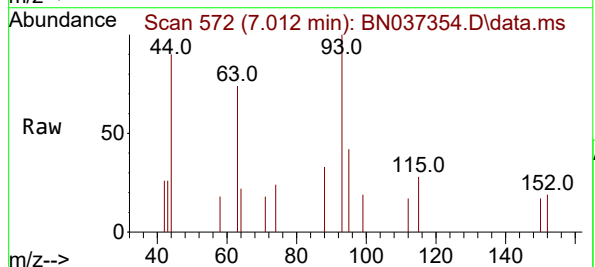
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

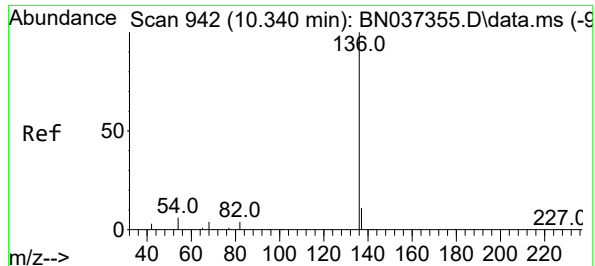
Tgt Ion: 99 Resp: 714
Ion Ratio Lower Upper
99 100
42 16.2 19.8 29.8#
71 44.0 42.6 64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.172 ng
RT: 7.012 min Scan# 572
Delta R.T. 0.007 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion: 93 Resp: 509
Ion Ratio Lower Upper
93 100
63 69.4 53.2 79.8
95 38.3 27.3 40.9

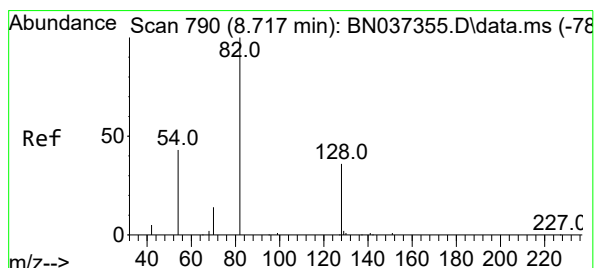
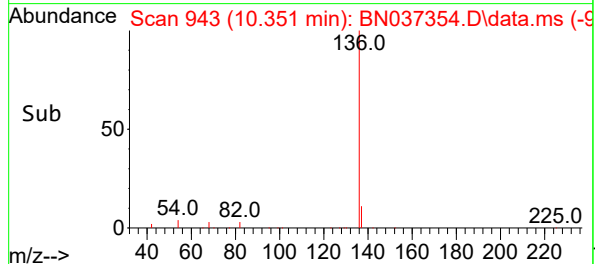
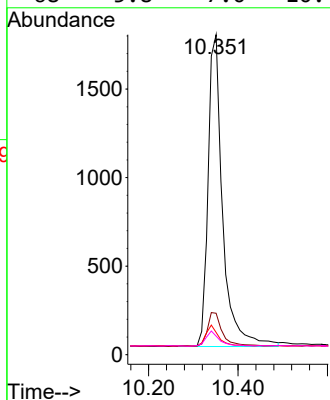
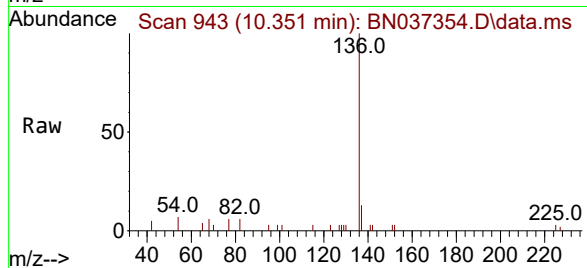




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 94
Delta R.T. 0.011 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

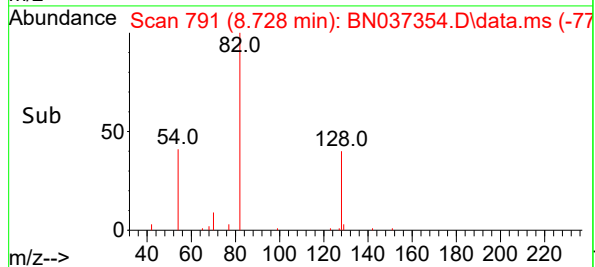
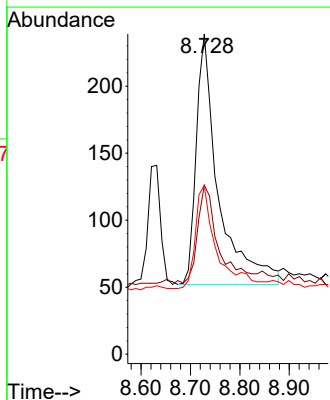
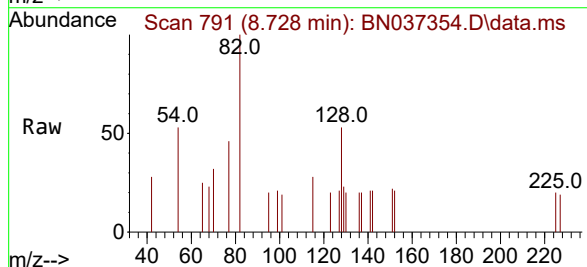
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

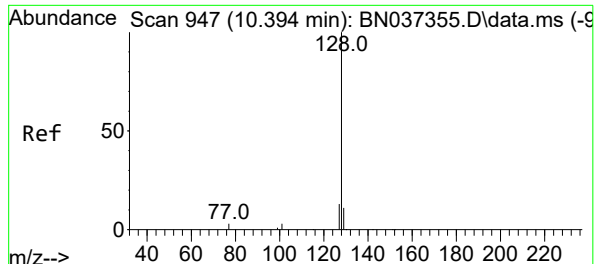
Tgt Ion:	136	Resp:	3983
Ion	Ratio	Lower	Upper
136	100		
137	12.9	12.2	18.2
54	7.0	8.8	13.2#
68	5.8	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 0.176 ng
RT: 8.728 min Scan# 791
Delta R.T. 0.011 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:	82	Resp:	582
Ion	Ratio	Lower	Upper
82	100		
128	52.7	42.5	63.7
54	52.7	43.2	64.8

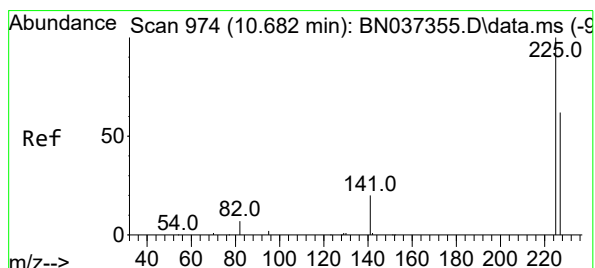
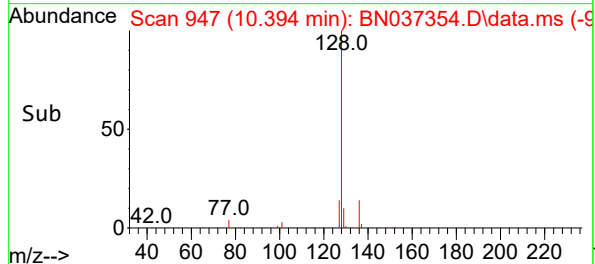
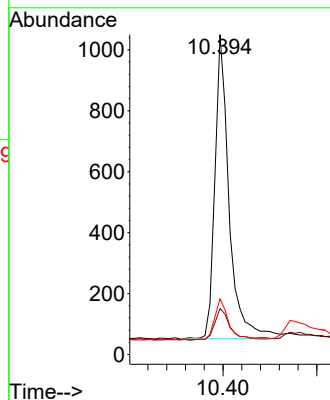
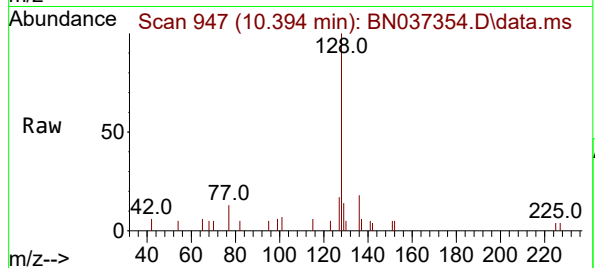




#9
Naphthalene
Concen: 0.204 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

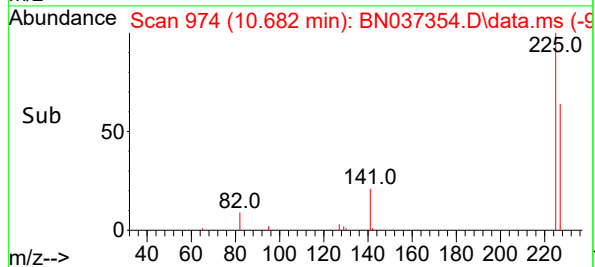
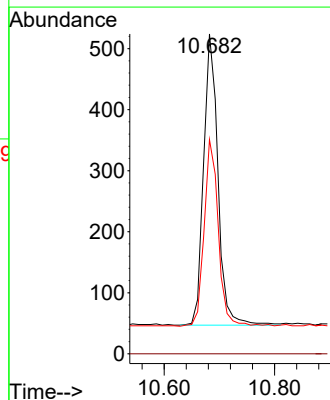
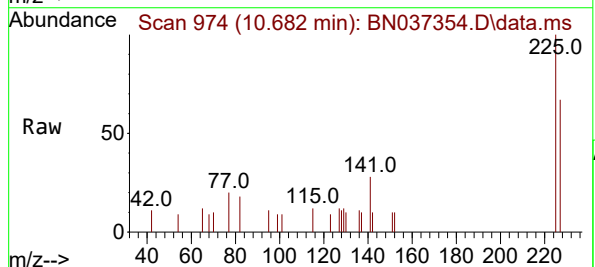
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

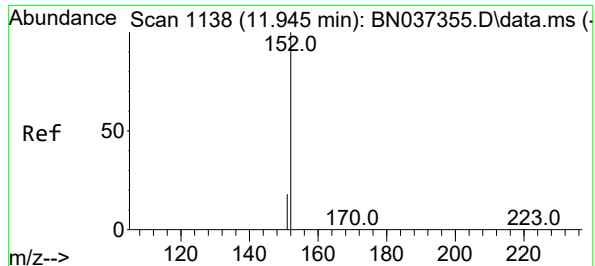
Tgt Ion:	128	Resp:	2104
Ion	Ratio	Lower	Upper
128	100		
129	14.4	14.0	21.0
127	17.4	15.8	23.8



#10
Hexachlorobutadiene
Concen: 0.171 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:	225	Resp:	864
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	50.3	75.5

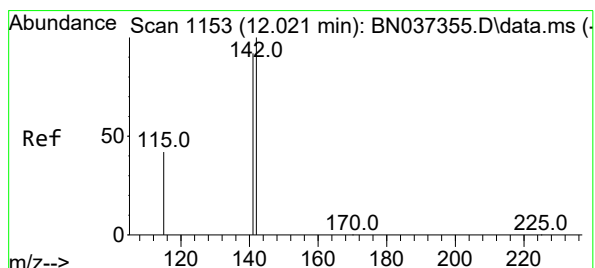
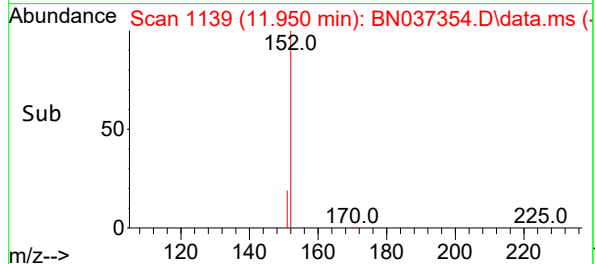
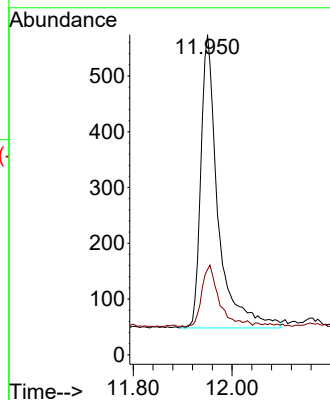
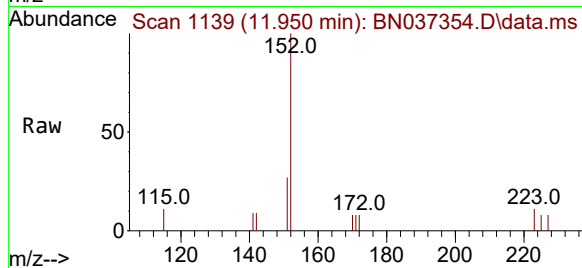




#11
2-Methylnaphthalene-d10
Concen: 0.197 ng
RT: 11.950 min Scan# 1139
Delta R.T. 0.005 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

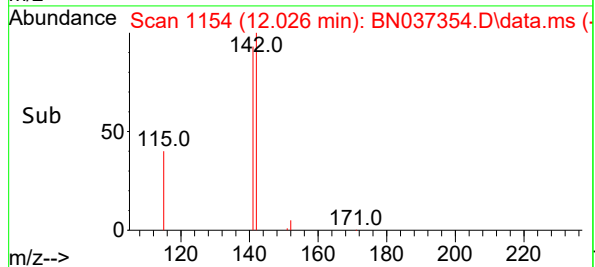
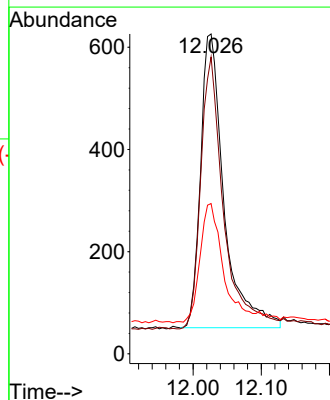
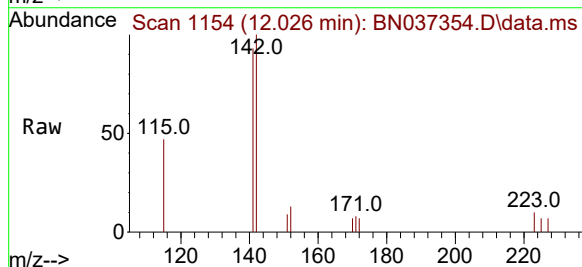
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

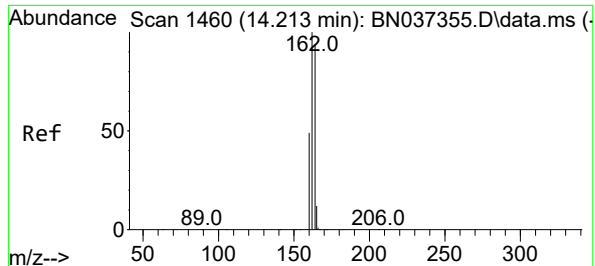
Tgt Ion:152 Resp: 1271
Ion Ratio Lower Upper
152 100
151 20.8 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.190 ng
RT: 12.026 min Scan# 1154
Delta R.T. 0.005 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:142 Resp: 1379
Ion Ratio Lower Upper
142 100
141 92.8 70.2 105.2
115 47.0 43.0 64.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.213 min Scan# 1460

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

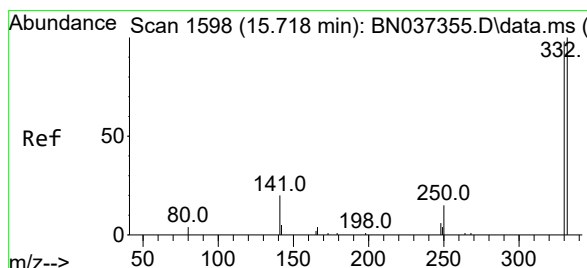
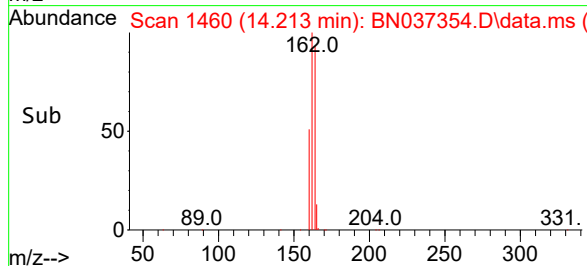
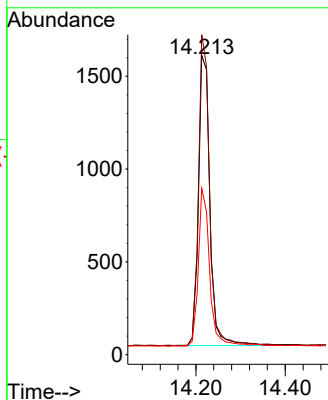
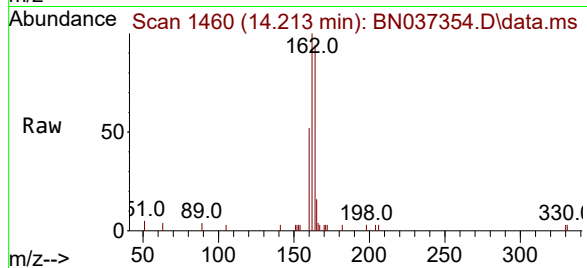
Tgt Ion:164 Resp: 2790

Ion Ratio Lower Upper

164 100

162 106.9 81.5 122.3

160 55.5 43.0 64.4



#14

2,4,6-Tribromophenol

Concen: 0.158 ng

RT: 15.730 min Scan# 1599

Delta R.T. 0.012 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

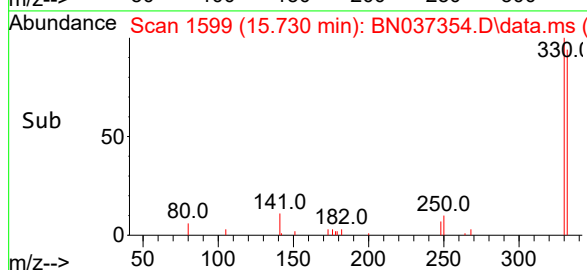
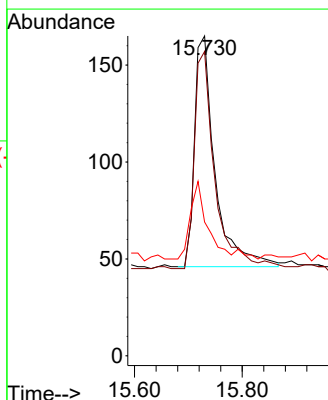
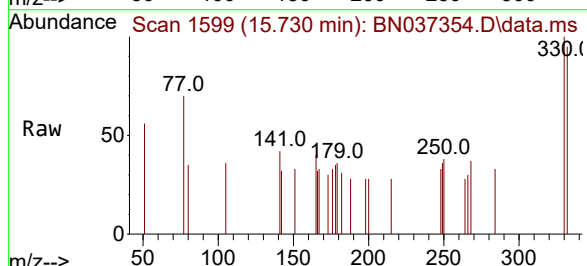
Tgt Ion:330 Resp: 315

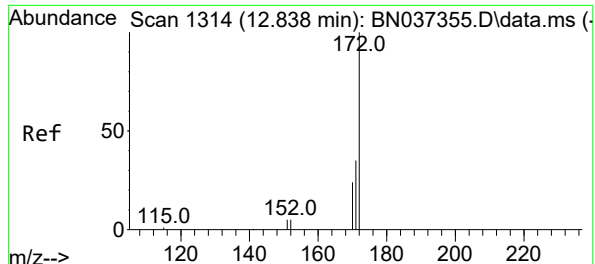
Ion Ratio Lower Upper

330 100

332 94.6 78.4 117.6

141 31.1 24.4 36.6

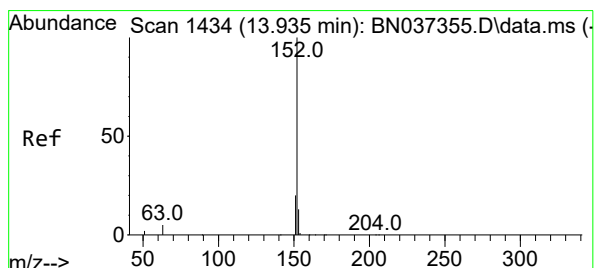
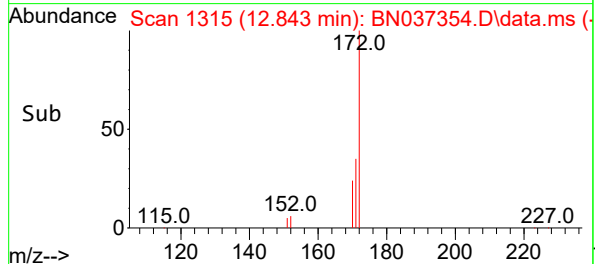
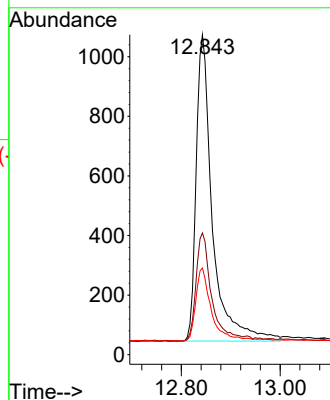
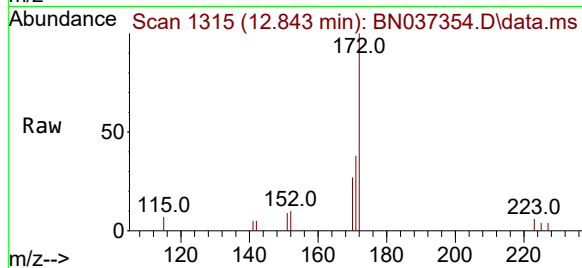




#15
2-Fluorobiphenyl
Concen: 0.191 ng
RT: 12.843 min Scan# 1315
Delta R.T. 0.005 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

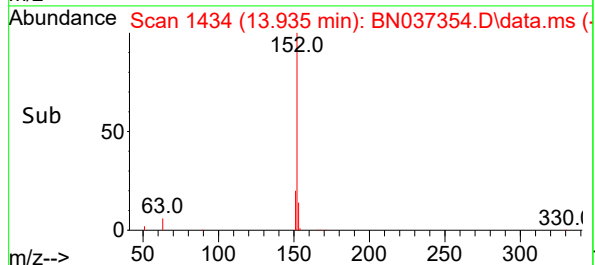
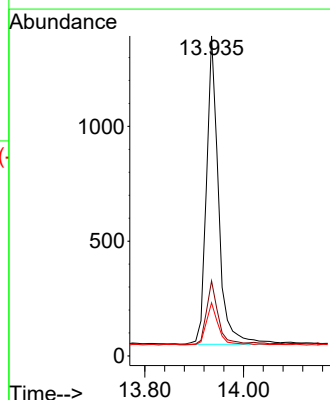
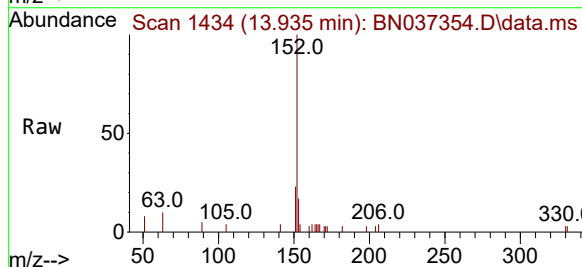
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

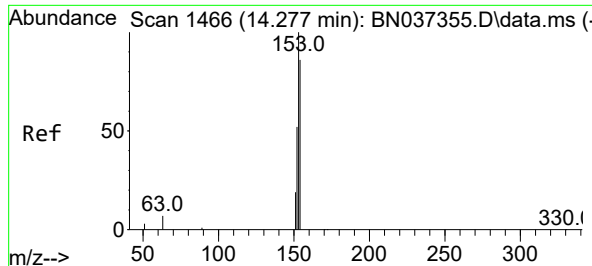
Tgt Ion:172 Resp: 2337
Ion Ratio Lower Upper
172 100
171 38.1 30.8 46.2
170 27.1 21.9 32.9



#16
Acenaphthylene
Concen: 0.195 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:152 Resp: 2282
Ion Ratio Lower Upper
152 100
151 19.8 16.6 24.8
153 14.1 10.2 15.2





#17

Acenaphthene

Concen: 0.192 ng

RT: 14.277 min Scan# 1466

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

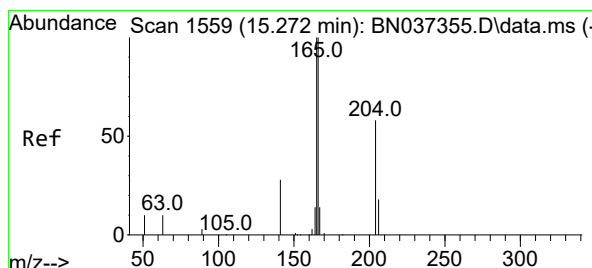
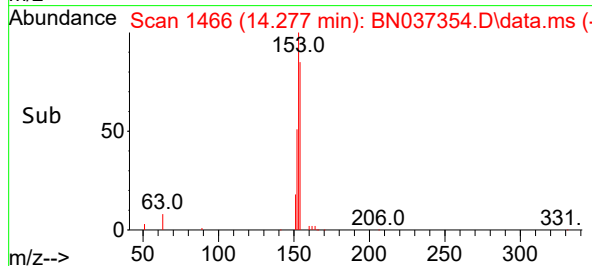
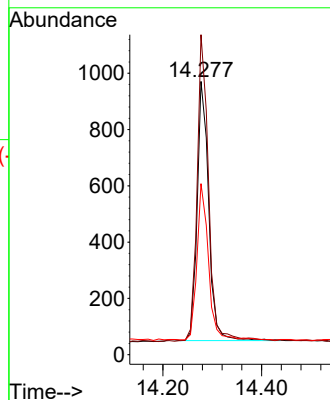
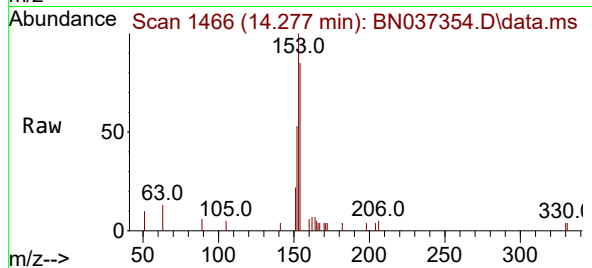
Tgt Ion:154 Resp: 1492

Ion Ratio Lower Upper

154 100

153 118.3 93.1 139.7

152 60.7 48.6 73.0



#18

Fluorene

Concen: 0.186 ng

RT: 15.282 min Scan# 1560

Delta R.T. 0.011 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

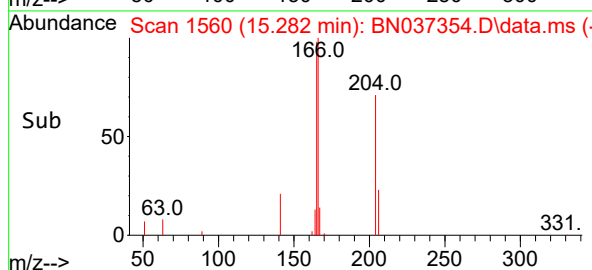
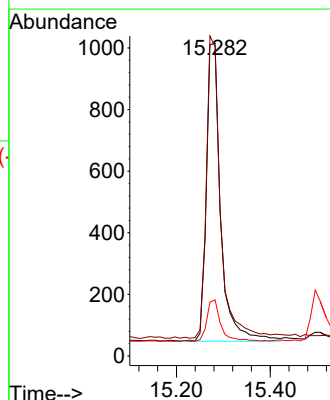
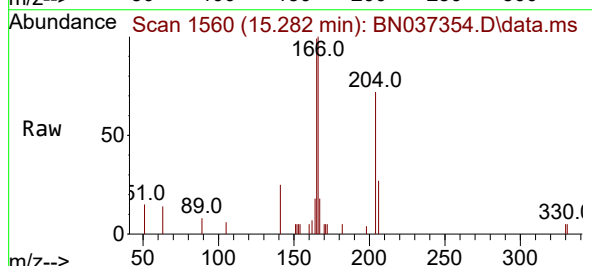
Tgt Ion:166 Resp: 2051

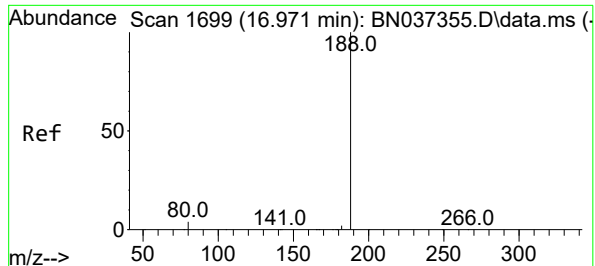
Ion Ratio Lower Upper

166 100

165 99.9 79.5 119.3

167 13.3 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

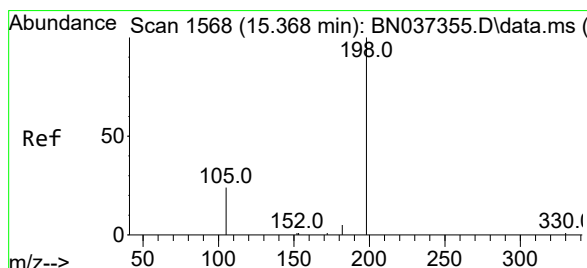
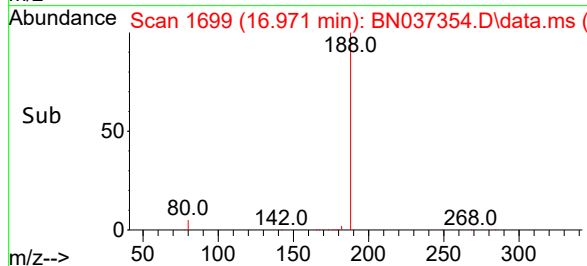
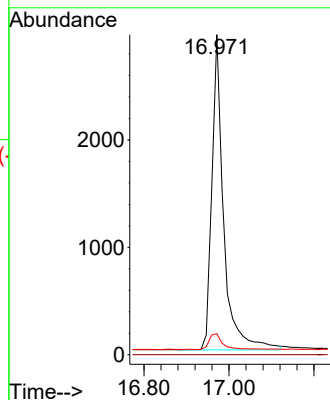
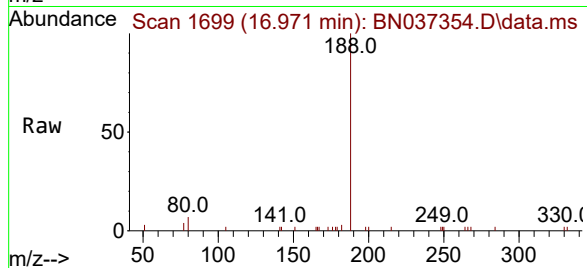
Tgt Ion:188 Resp: 5628

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.5 6.2 9.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.115 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.011 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

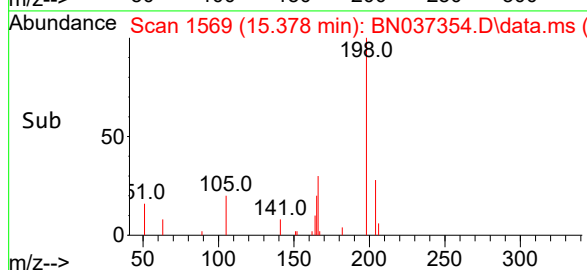
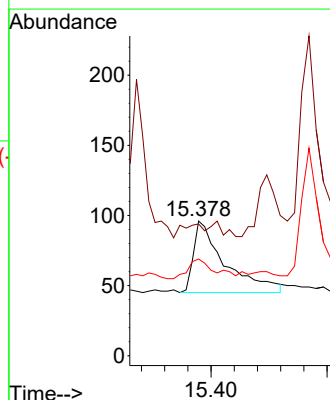
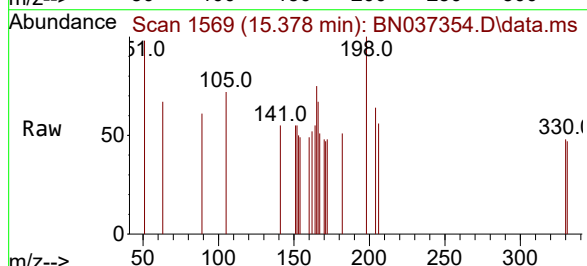
Tgt Ion:198 Resp: 196

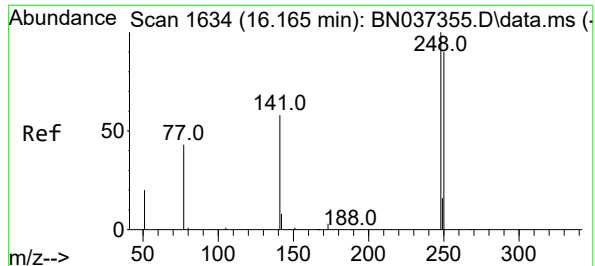
Ion Ratio Lower Upper

198 100

51 97.9 51.4 77.0#

105 71.9 45.5 68.3#

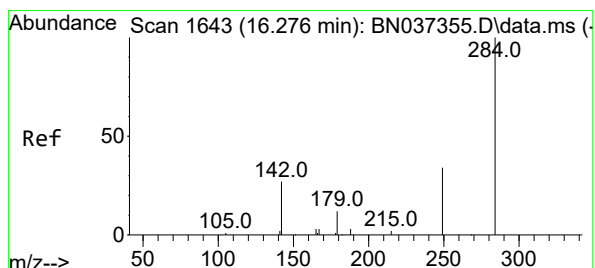
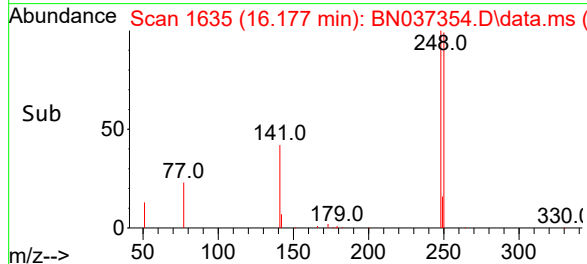
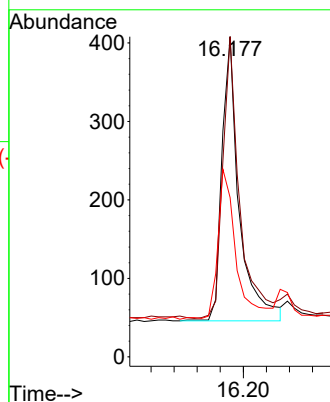
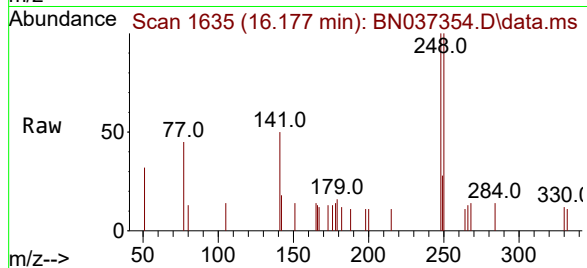




#21
4-Bromophenyl-phenylether
Concen: 0.163 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.012 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

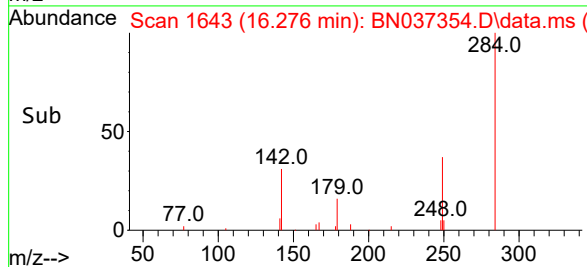
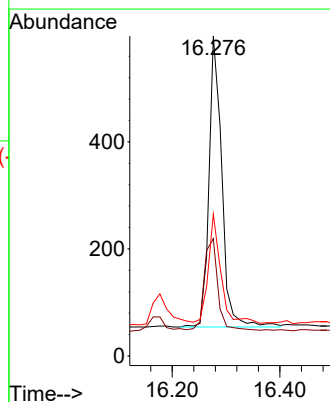
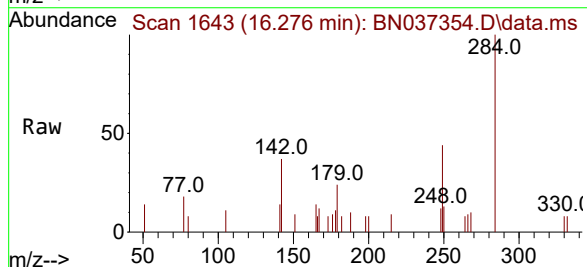
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

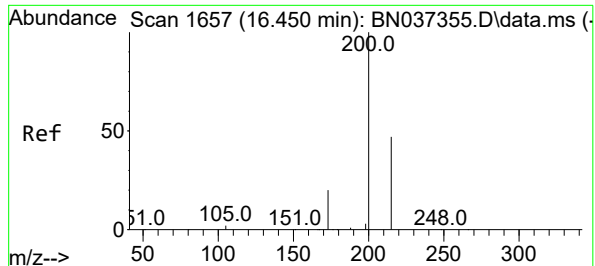
Tgt Ion: 248 Resp: 750
Ion Ratio Lower Upper
248 100
250 100.0 80.4 120.6
141 49.8 33.3 49.9



#22
Hexachlorobenzene
Concen: 0.187 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion: 284 Resp: 898
Ion Ratio Lower Upper
284 100
142 33.4 27.0 40.6
249 37.8 28.8 43.2





#23

Atrazine

Concen: 0.168 ng

RT: 16.450 min Scan# 1657

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

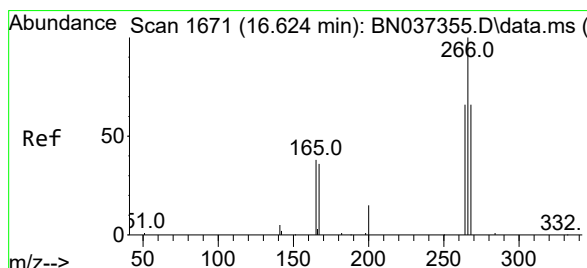
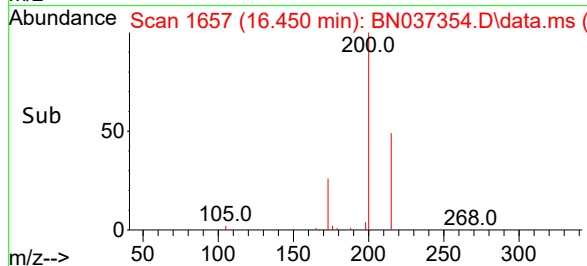
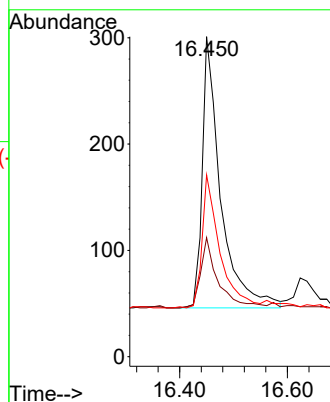
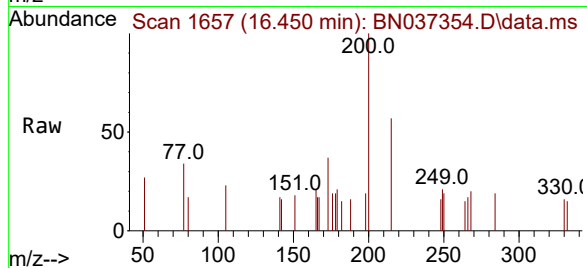
Tgt Ion:200 Resp: 604

Ion Ratio Lower Upper

200 100

173 37.2 29.2 43.8

215 56.8 48.8 73.2



#24

Pentachlorophenol

Concen: 0.140 ng

RT: 16.636 min Scan# 1672

Delta R.T. 0.012 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

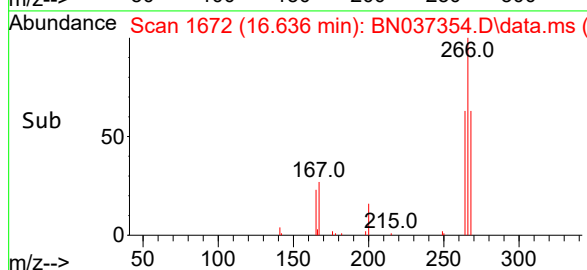
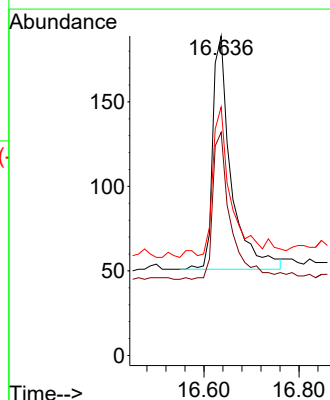
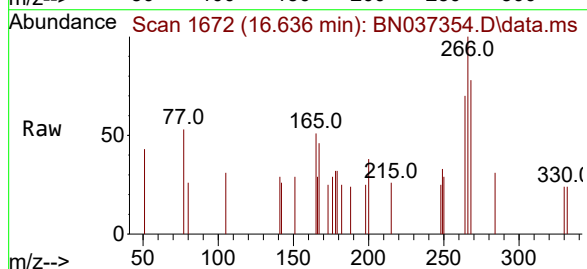
Tgt Ion:266 Resp: 369

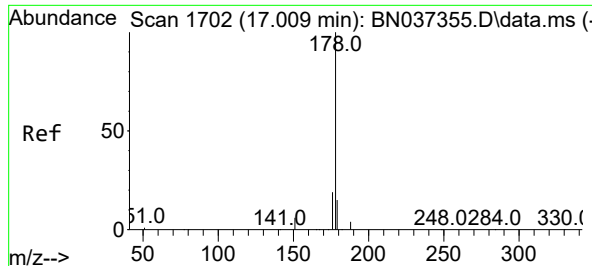
Ion Ratio Lower Upper

266 100

264 61.2 50.3 75.5

268 65.3 55.3 82.9

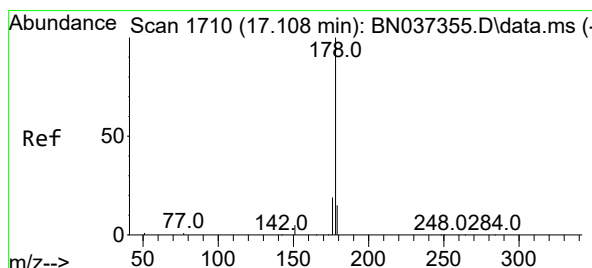
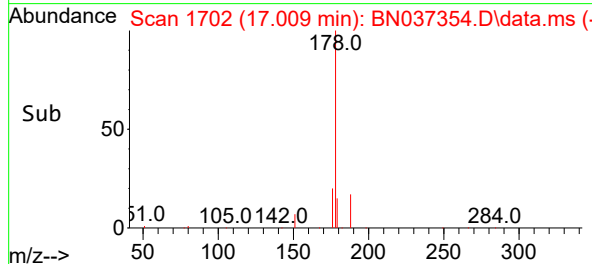
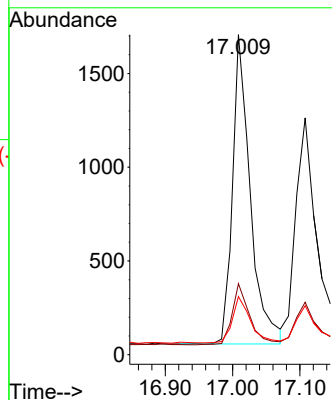
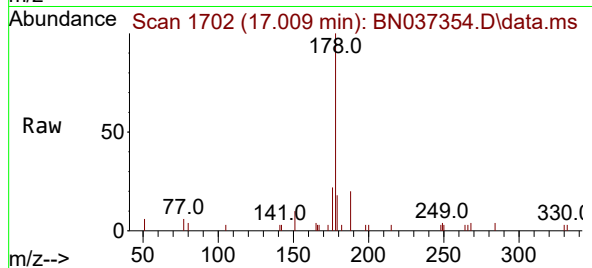




#25
Phenanthrene
Concen: 0.190 ng
RT: 17.009 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

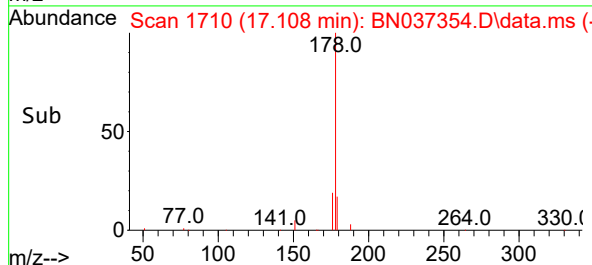
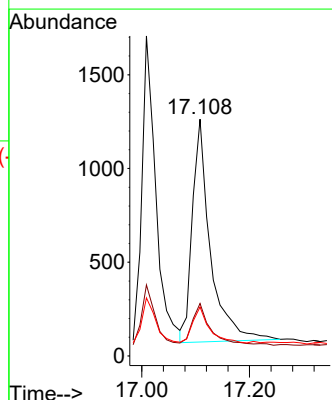
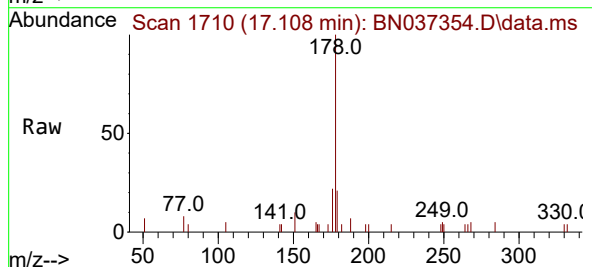
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

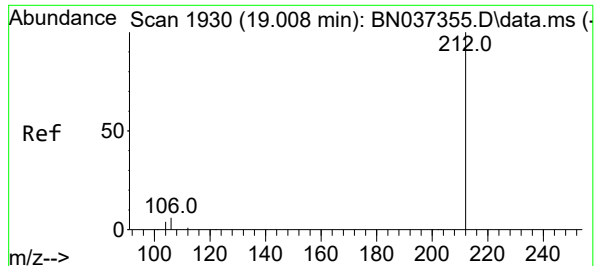
Tgt Ion:178 Resp: 3024
Ion Ratio Lower Upper
178 100
176 19.6 15.2 22.8
179 15.3 12.9 19.3



#26
Anthracene
Concen: 0.186 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:178 Resp: 2769
Ion Ratio Lower Upper
178 100
176 19.7 14.7 22.1
179 15.0 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.172 ng

RT: 19.008 min Scan# 1930

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

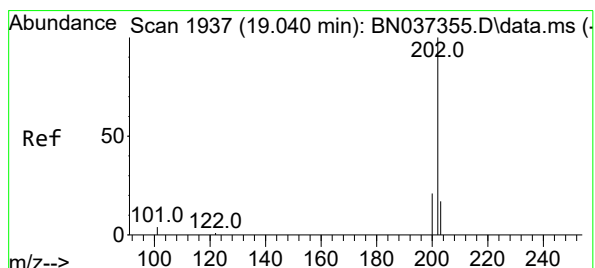
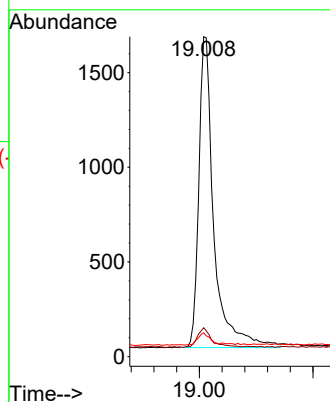
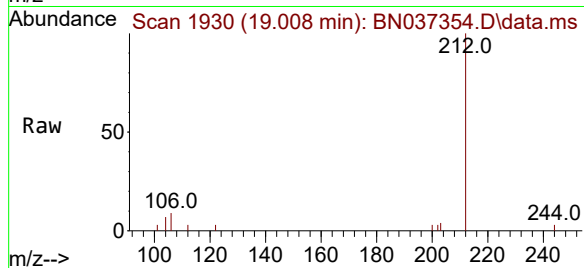
Tgt Ion:212 Resp: 3010

Ion Ratio Lower Upper

212 100

106 6.0 3.0 4.4#

104 3.2 2.0 3.0#



#28

Fluoranthene

Concen: 0.174 ng

RT: 19.040 min Scan# 1937

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

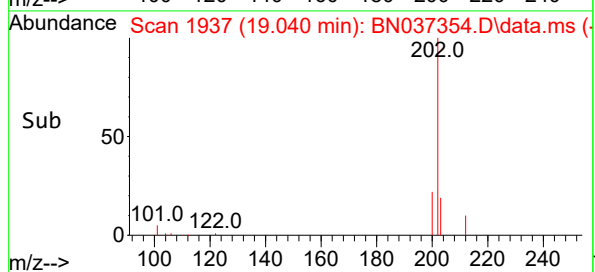
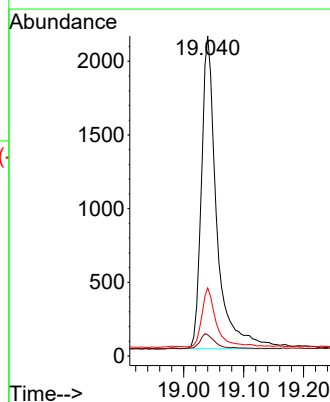
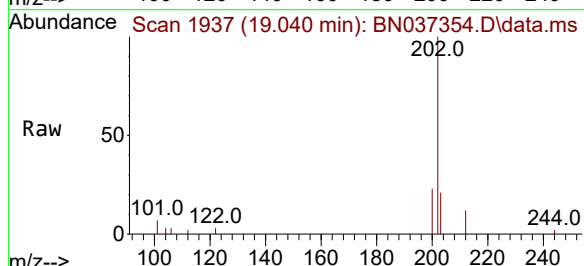
Tgt Ion:202 Resp: 3780

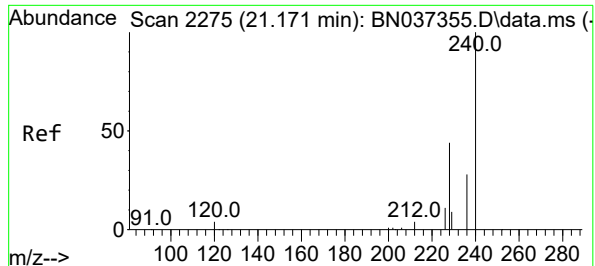
Ion Ratio Lower Upper

202 100

101 4.7 3.0 4.6#

203 17.8 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

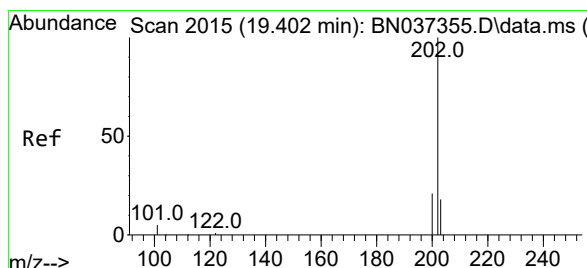
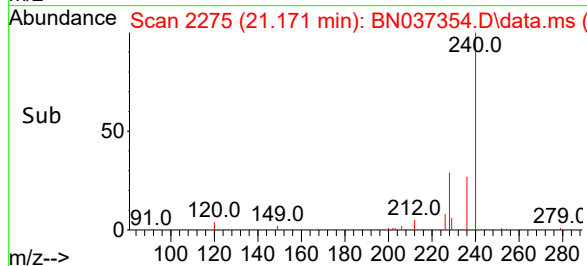
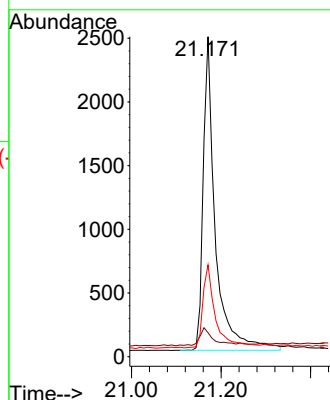
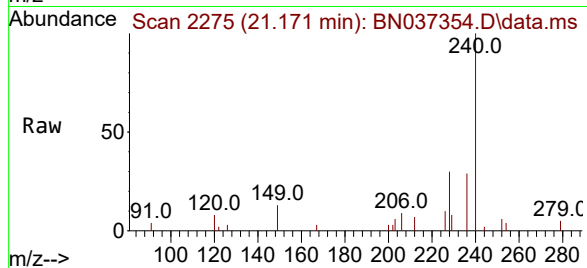
Tgt Ion:240 Resp: 4640

Ion Ratio Lower Upper

240 100

120 7.5 7.5 11.3

236 28.7 24.9 37.3



#30

Pyrene

Concen: 0.221 ng

RT: 19.402 min Scan# 2015

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

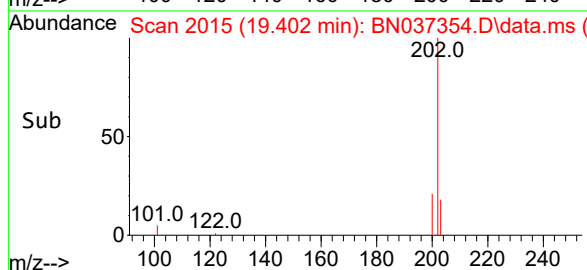
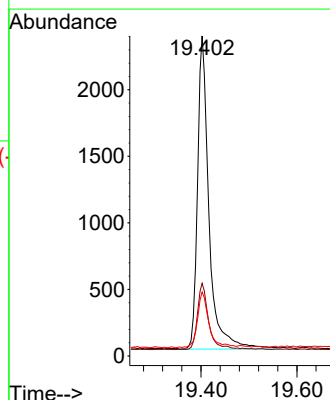
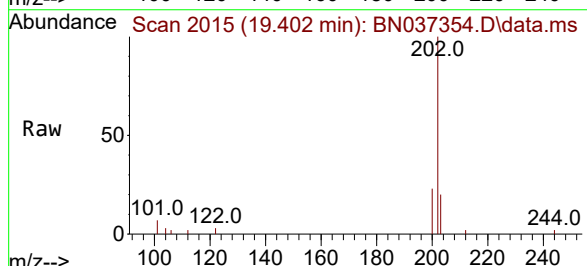
Tgt Ion:202 Resp: 3921

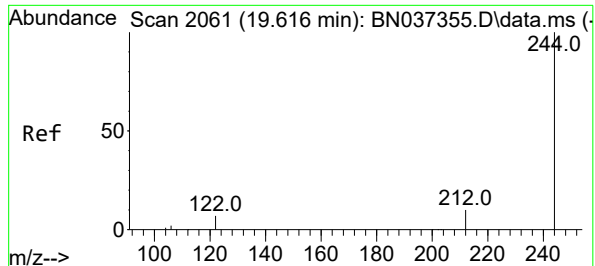
Ion Ratio Lower Upper

202 100

200 20.4 16.8 25.2

203 17.9 14.5 21.7

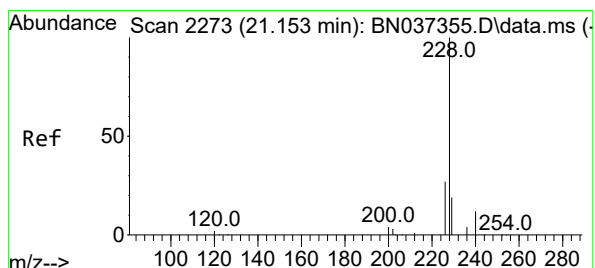
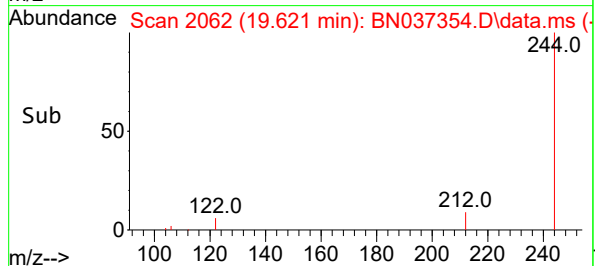
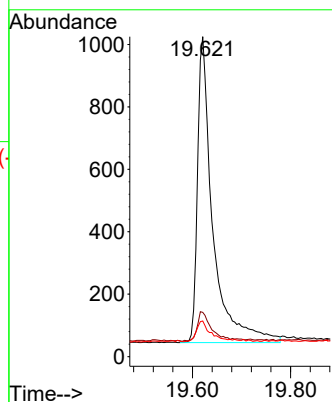
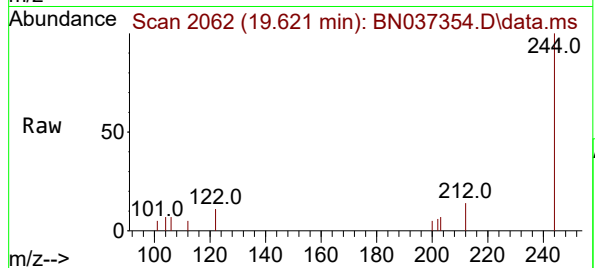




#31
Terphenyl-d14
Concen: 0.200 ng
RT: 19.621 min Scan# 2062
Delta R.T. 0.005 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

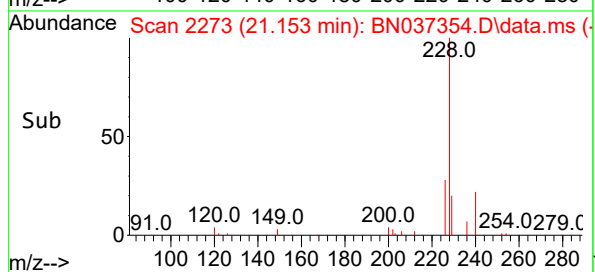
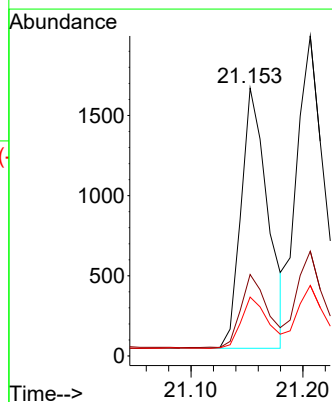
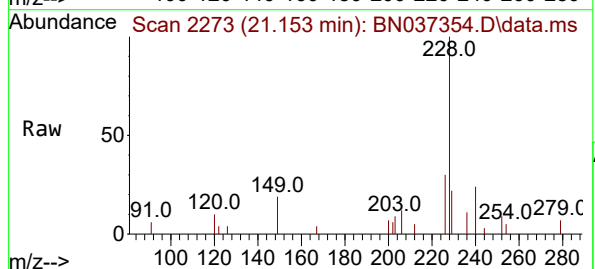
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

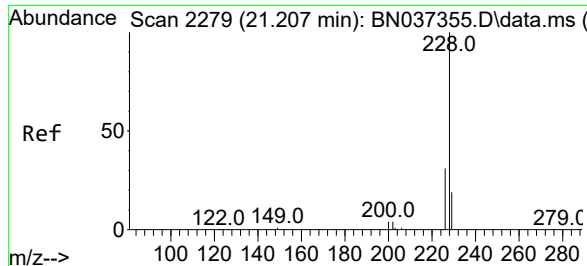
Tgt Ion:244 Resp: 2114
Ion Ratio Lower Upper
244 100
212 13.9 11.1 16.7
122 11.1 7.2 10.8#



#32
Benzo(a)anthracene
Concen: 0.181 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:228 Resp: 2710
Ion Ratio Lower Upper
228 100
226 30.4 23.0 34.4
229 22.0 17.4 26.0





#33

Chrysene

Concen: 0.208 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

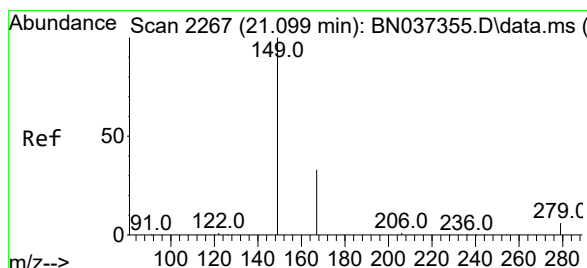
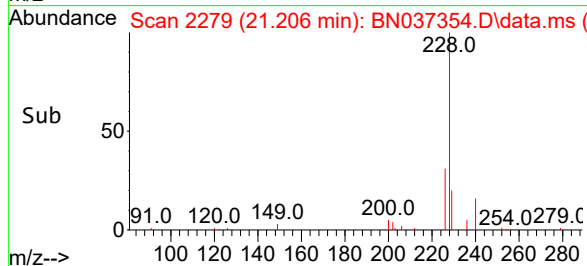
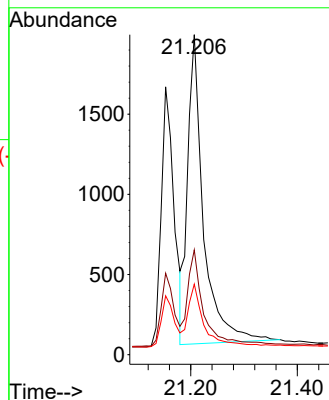
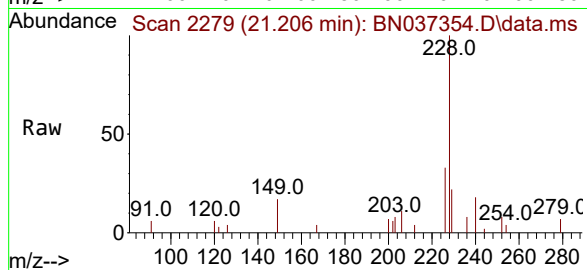
Tgt Ion:228 Resp: 3959

Ion Ratio Lower Upper

228 100

226 32.8 25.4 38.2

229 22.0 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.229 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

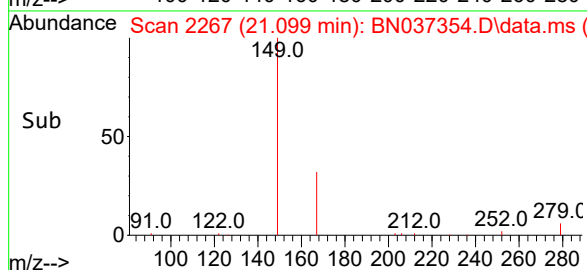
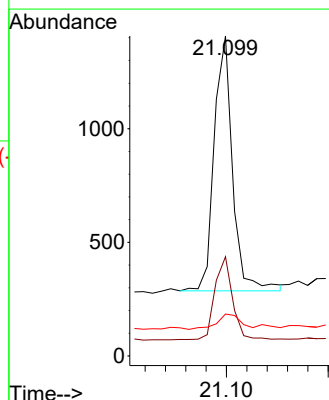
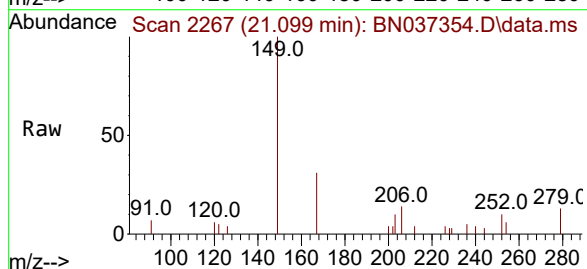
Tgt Ion:149 Resp: 1406

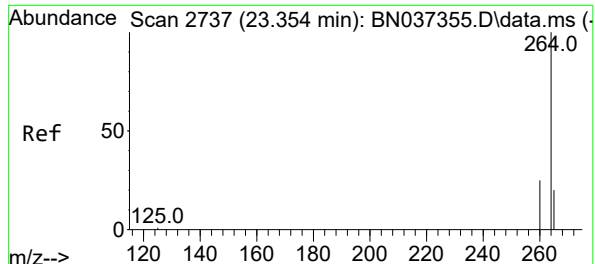
Ion Ratio Lower Upper

149 100

167 31.8 24.6 37.0

279 7.7 6.5 9.7

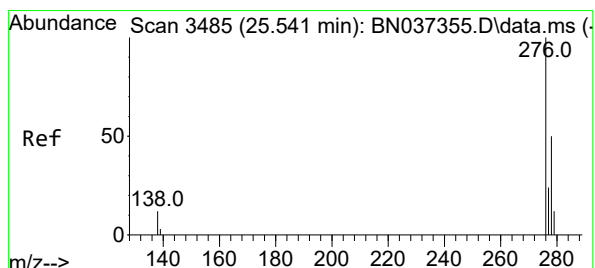
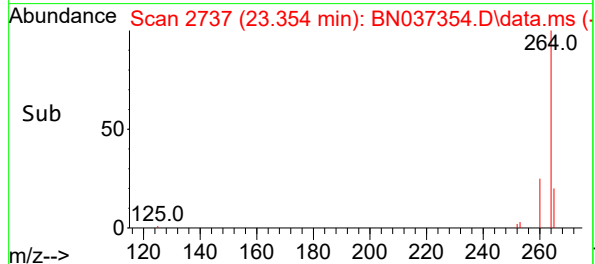
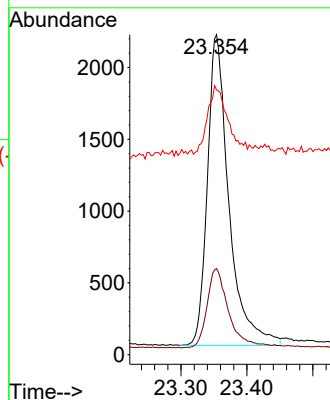
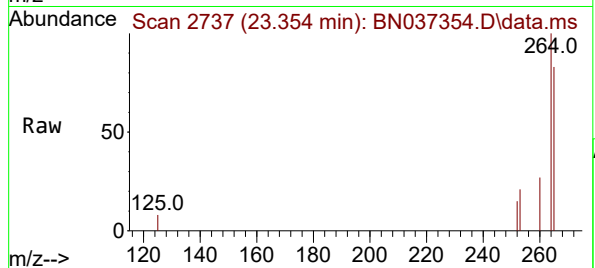




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.354 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

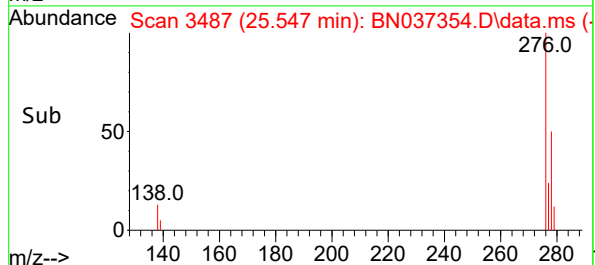
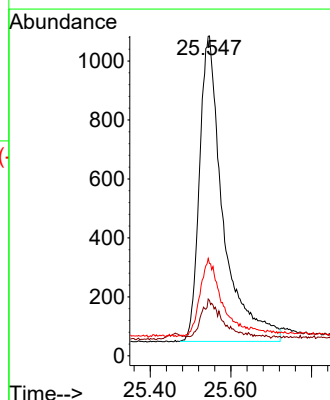
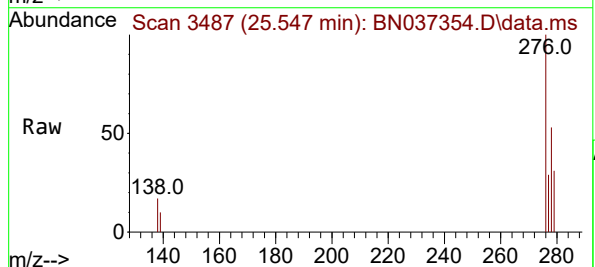
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

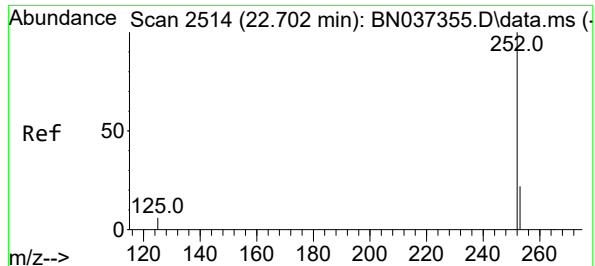
Tgt Ion:264 Resp: 4914
Ion Ratio Lower Upper
264 100
260 26.9 21.4 32.2
265 82.7 71.4 107.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.202 ng
RT: 25.547 min Scan# 3487
Delta R.T. 0.006 min
Lab File: BN037354.D
Acq: 20 Jun 2025 17:27

Tgt Ion:276 Resp: 4213
Ion Ratio Lower Upper
276 100
138 9.1 2.2 3.2#
277 22.8 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 0.195 ng

RT: 22.702 min Scan# 2514

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

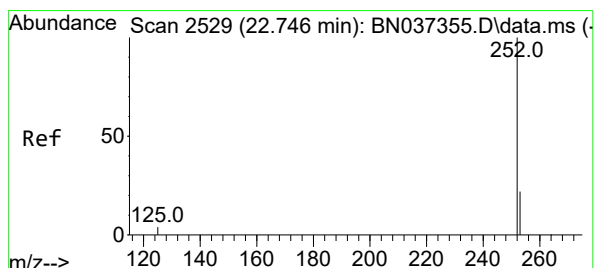
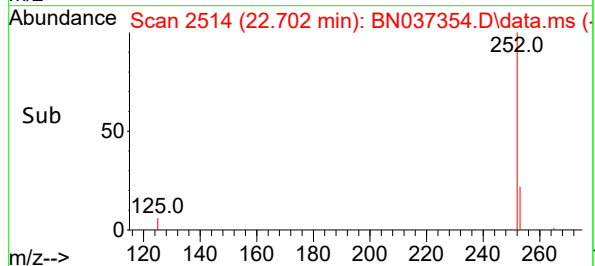
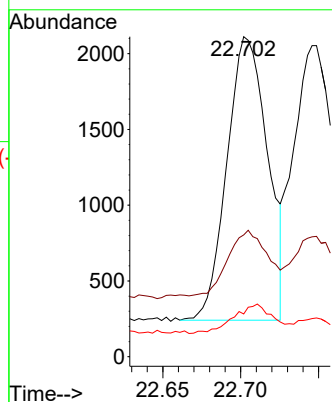
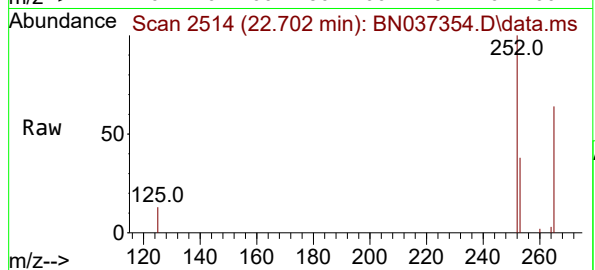
Tgt Ion:252 Resp: 3390

Ion Ratio Lower Upper

252 100

253 38.1 26.6 40.0

125 13.4 6.1 9.1#



#38

Benzo(k)fluoranthene

Concen: 0.207 ng

RT: 22.746 min Scan# 2529

Delta R.T. -0.000 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

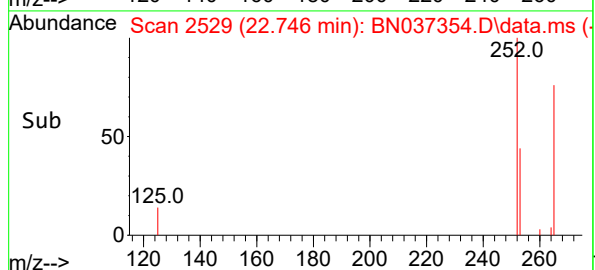
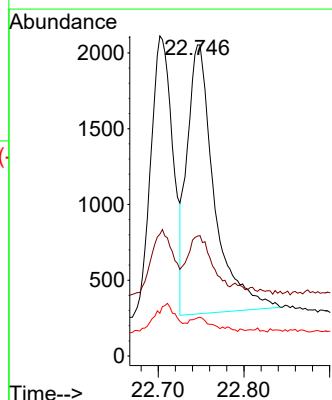
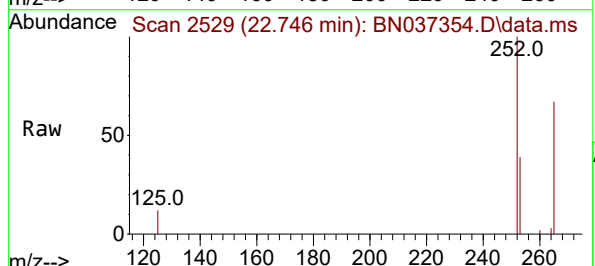
Tgt Ion:252 Resp: 3913

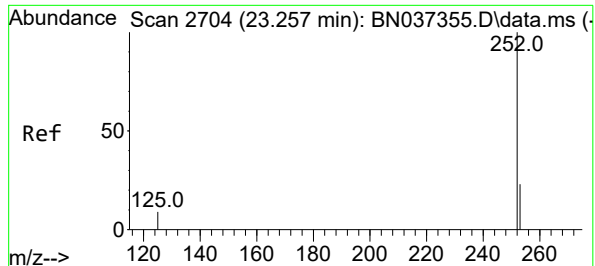
Ion Ratio Lower Upper

252 100

253 38.5 26.7 40.1

125 12.3 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 0.193 ng

RT: 23.260 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

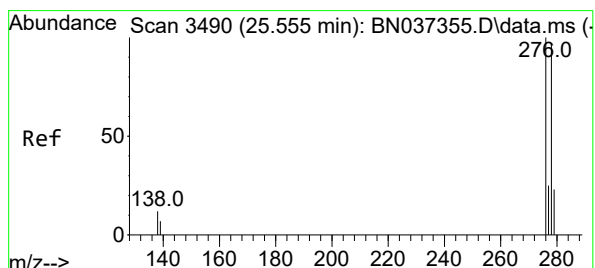
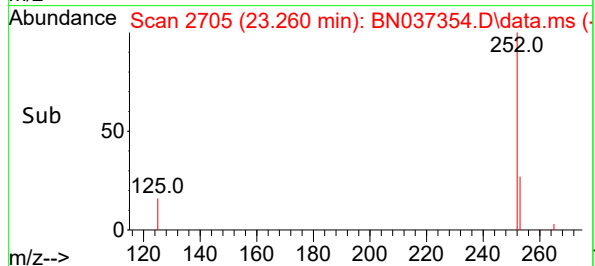
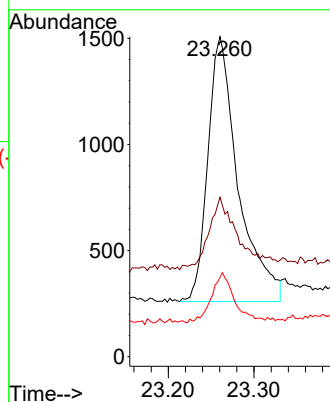
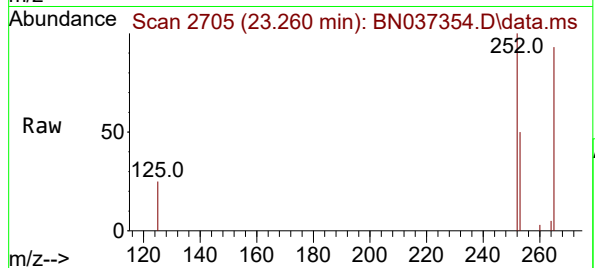
Tgt Ion:252 Resp: 3070

Ion Ratio Lower Upper

252 100

253 49.8 31.6 47.4#

125 24.8 8.4 12.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.175 ng

RT: 25.564 min Scan# 3493

Delta R.T. 0.009 min

Lab File: BN037354.D

Acq: 20 Jun 2025 17:27

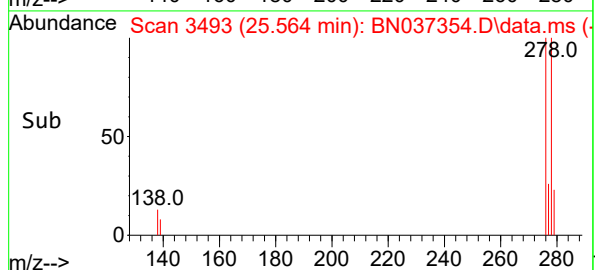
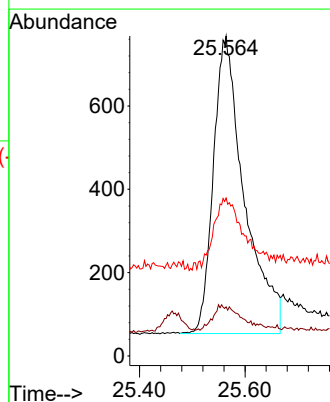
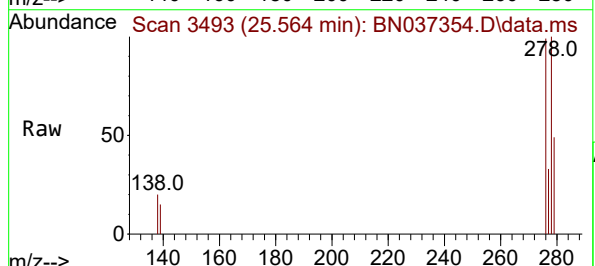
Tgt Ion:278 Resp: 2911

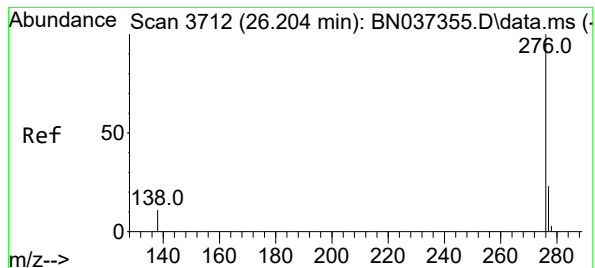
Ion Ratio Lower Upper

278 100

139 15.4 10.2 15.4#

279 49.3 35.6 53.4





#41

Benzo(g,h,i)perylene

Concen: 0.200 ng

RT: 26.207 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037354.D

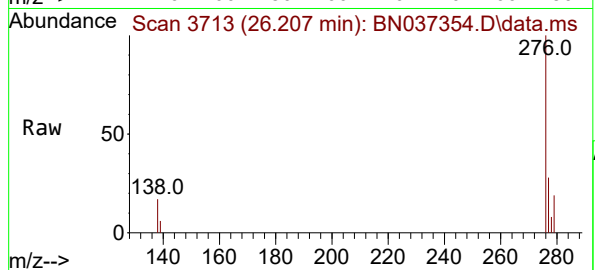
Acq: 20 Jun 2025 17:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



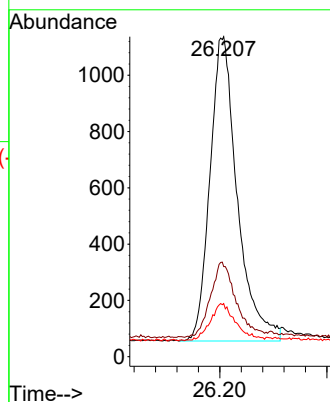
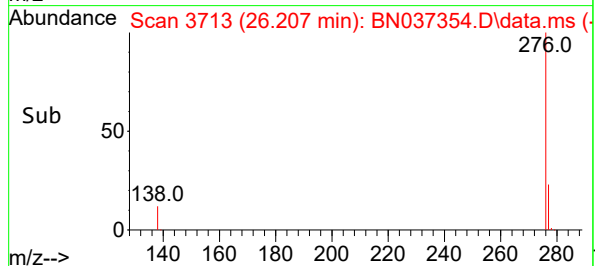
Tgt Ion:276 Resp: 3819

Ion Ratio Lower Upper

276 100

277 28.1 22.7 34.1

138 16.6 9.4 14.2#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037355.D
 Acq On : 20 Jun 2025 18:03
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 06/23/2025

Supervised By :Jagrut Upadhyay 06/24/2025

Quant Time: Jun 20 23:26:55 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Jun 20 23:25:11 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1912	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4157	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2811	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5776	0.400	ng	# 0.00
29) Chrysene-d12	21.171	240	4813	0.400	ng	# 0.00
35) Perylene-d12	23.354	264	4943	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	1436	0.411	ng	0.00
5) Phenol-d6	6.752	99	1465	0.424	ng	0.00
8) Nitrobenzene-d5	8.717	82	1327	0.385	ng	0.00
11) 2-Methylnaphthalene-d10	11.945	152	2768	0.411	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	646	0.321	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	4996	0.405	ng	0.00
27) Fluoranthene-d10	19.008	212	6705	0.373	ng	0.00
31) Terphenyl-d14	19.616	244	4452	0.405	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	745	0.441	ng	Qvalue 94
3) n-Nitrosodimethylamine	3.422	42	754	0.383	ng	81
6) bis(2-Chloroethyl)ether	7.004	93	1351	0.446	ng	94
9) Naphthalene	10.394	128	4347	0.403	ng	# 89
10) Hexachlorobutadiene	10.682	225	1832	0.348	ng	# 99
12) 2-Methylnaphthalene	12.021	142	2957	0.390	ng	92
16) Acenaphthylene	13.935	152	4490	0.381	ng	99
17) Acenaphthene	14.277	154	2983	0.381	ng	98
18) Fluorene	15.272	166	4232	0.382	ng	100
20) 4,6-Dinitro-2-methylph...	15.368	198	459	0.263	ng	89
21) 4-Bromophenyl-phenylether	16.165	248	1611	0.342	ng	# 85
22) Hexachlorobenzene	16.276	284	1814	0.369	ng	98
23) Atrazine	16.450	200	1262	0.342	ng	# 85
24) Pentachlorophenol	16.624	266	792	0.293	ng	98
25) Phenanthrene	17.009	178	6374	0.391	ng	99
26) Anthracene	17.108	178	5717	0.375	ng	98
28) Fluoranthene	19.040	202	7896	0.354	ng	# 98
30) Pyrene	19.402	202	7990	0.434	ng	100
32) Benzo(a)anthracene	21.153	228	5851	0.377	ng	98
33) Chrysene	21.207	228	7754	0.394	ng	98
34) Bis(2-ethylhexyl)phtha...	21.099	149	2603	0.409	ng	98
36) Indeno(1,2,3-cd)pyrene	25.541	276	8379	0.400	ng	# 93
37) Benzo(b)fluoranthene	22.702	252	7138m	0.407	ng	
38) Benzo(k)fluoranthene	22.746	252	7755	0.407	ng	95
39) Benzo(a)pyrene	23.257	252	6298	0.393	ng	# 92
40) Dibenzo(a,h)anthracene	25.555	278	6108	0.366	ng	# 88
41) Benzo(g,h,i)perylene	26.204	276	7852	0.408	ng	95

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037355.D
Acq On : 20 Jun 2025 18:03
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

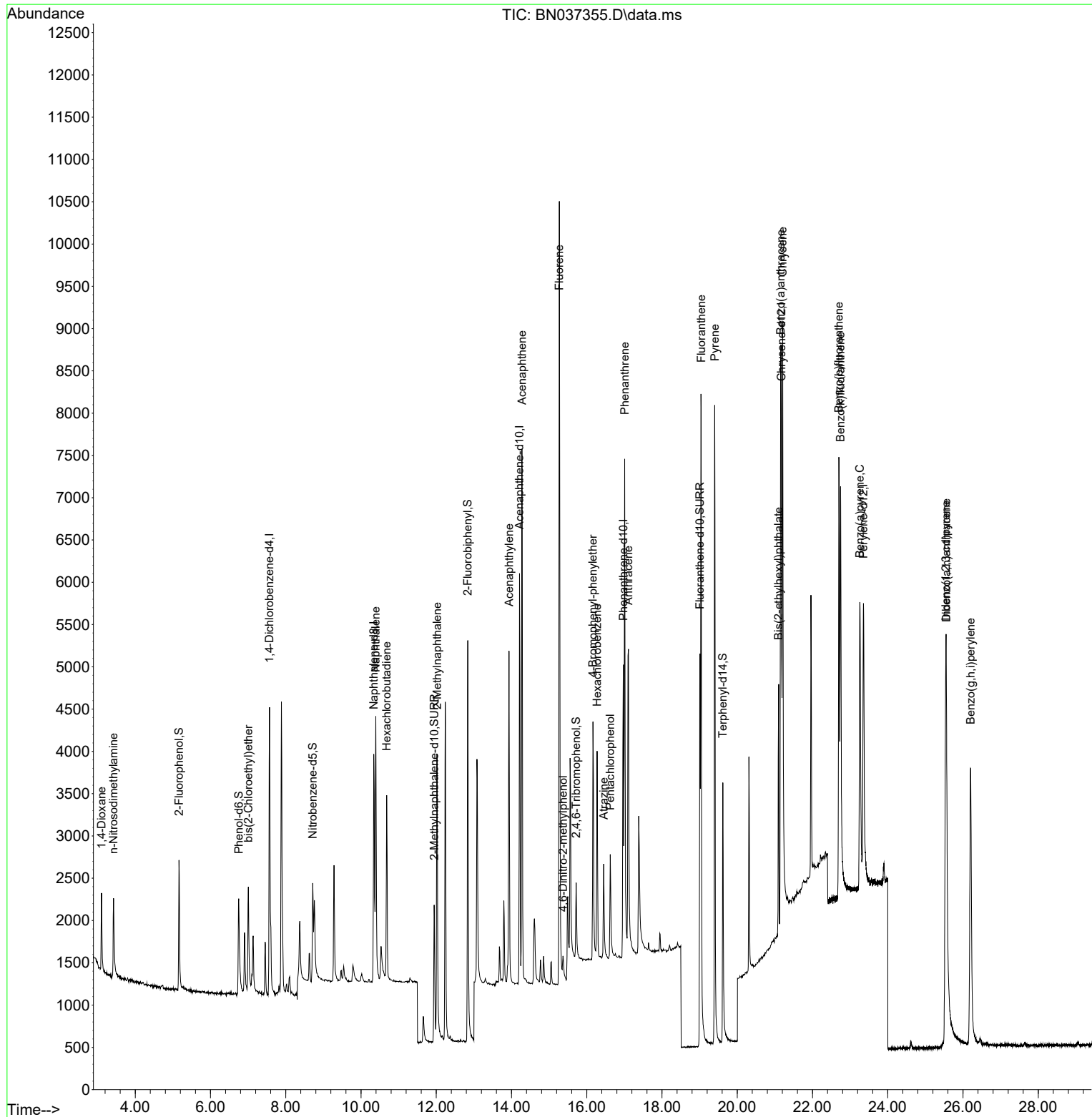
Manual Integrations

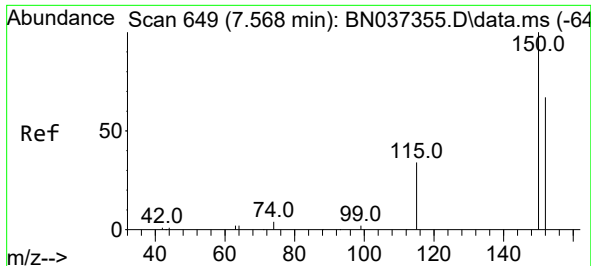
APPROVED

Reviewed By :Rahul Chavli 06/23/2025

Supervised By :Jagrut Upadhyay 06/24/2025

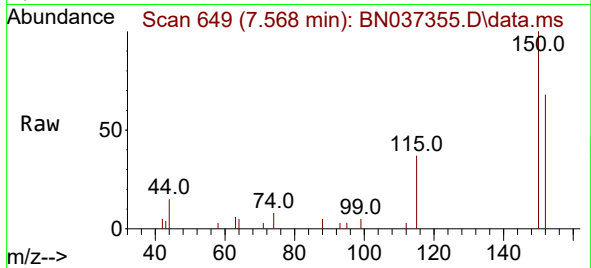
Quant Time: Jun 20 23:26:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

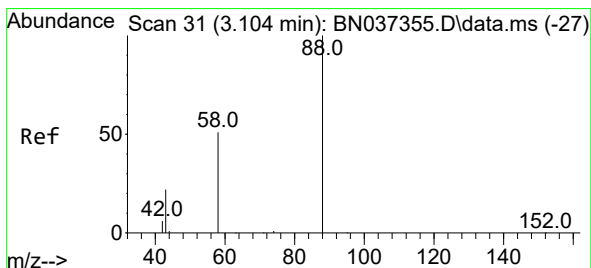
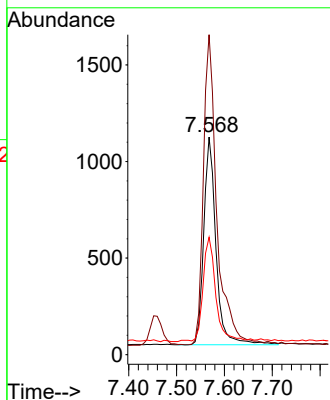
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:152 Resp: 191.2
Ion Ratio Lower Upper
152 100
150 147.0 112.7 169.1
115 53.9 45.9 68.9

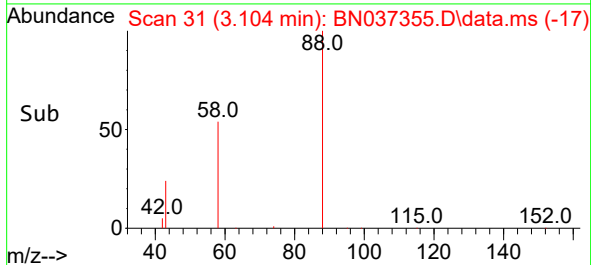
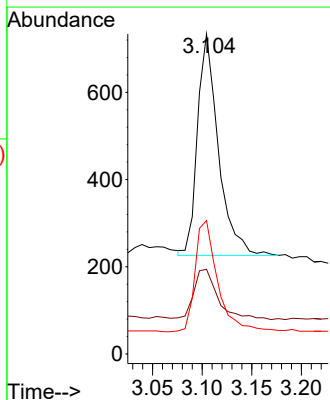
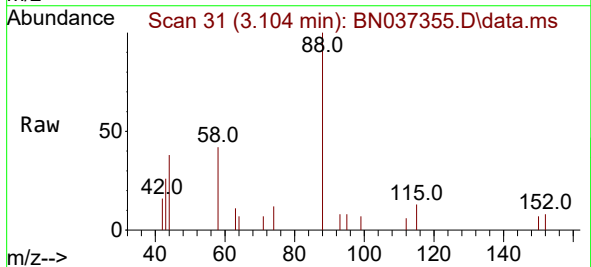
Manual Integrations
APPROVED

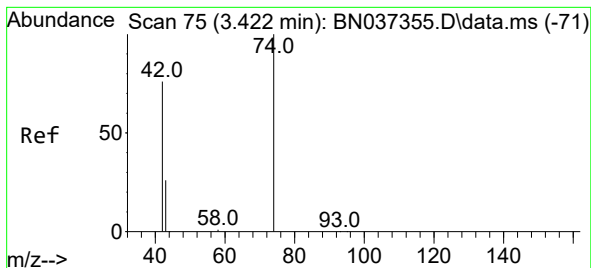
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025



#2
1,4-Dioxane
Concen: 0.441 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion: 88 Resp: 745
Ion Ratio Lower Upper
88 100
43 26.3 21.0 31.6
58 54.1 38.0 57.0





#3

n-Nitrosodimethylamine

Concen: 0.383 ng

RT: 3.422 min Scan# 75

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

Instrument :

BNA_N

ClientSampleId :

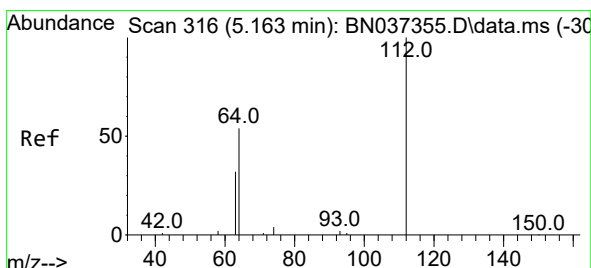
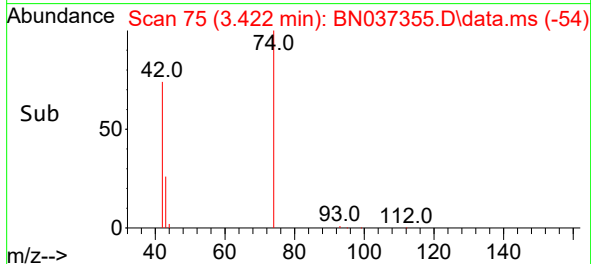
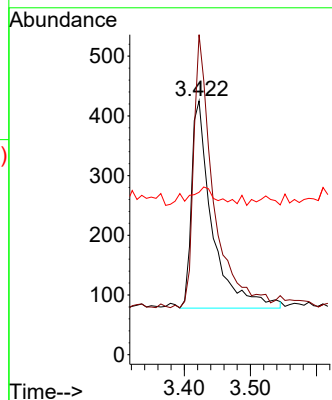
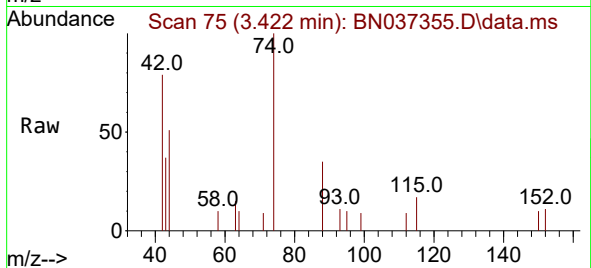
SSTDICCC0.4

Tgt Ion:	42	Resp:	754
Ion	Ratio	Lower	Upper
42	100		
74	126.4	84.3	126.5
44	5.7	5.0	7.4

Manual Integrations
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#4

2-Fluorophenol

Concen: 0.411 ng

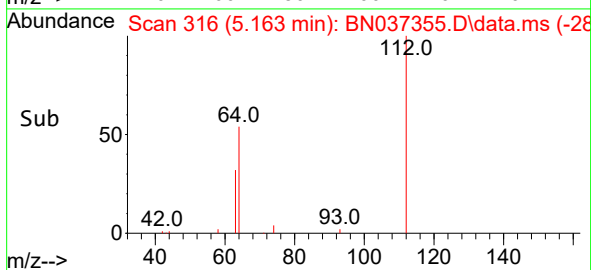
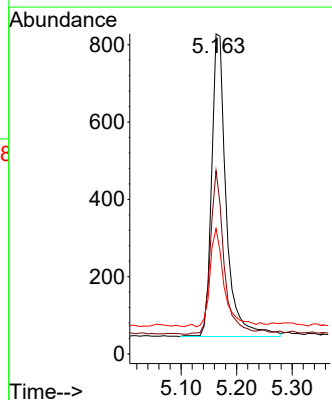
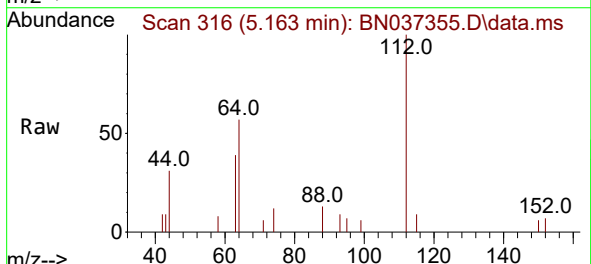
RT: 5.163 min Scan# 316

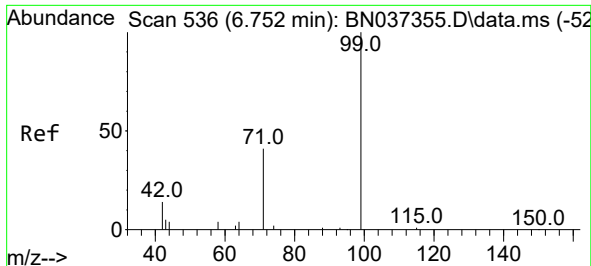
Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

Tgt Ion:	112	Resp:	1436
Ion	Ratio	Lower	Upper
112	100		
64	49.6	38.7	58.1
63	31.1	26.4	39.6





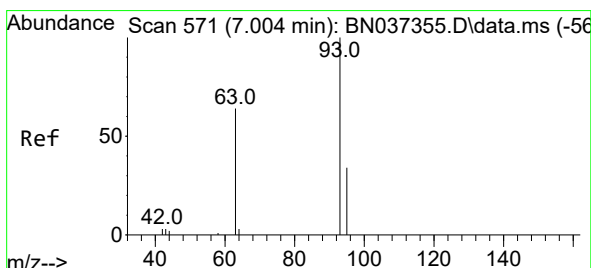
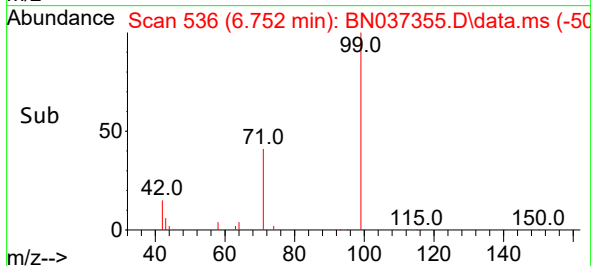
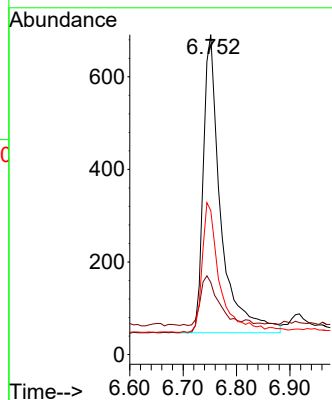
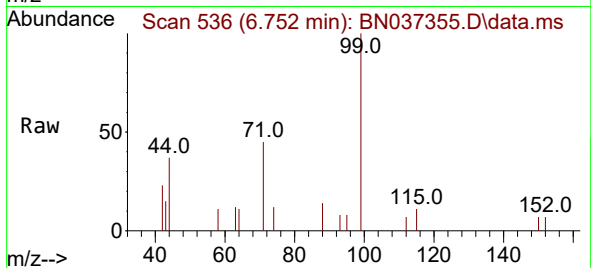
#5
Phenol-d6
Concen: 0.424 ng
RT: 6.752 min Scan# 536
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 146
Ion Ratio Lower Upper
99 100
42 17.0 19.8 29.8
71 43.2 42.6 64.0

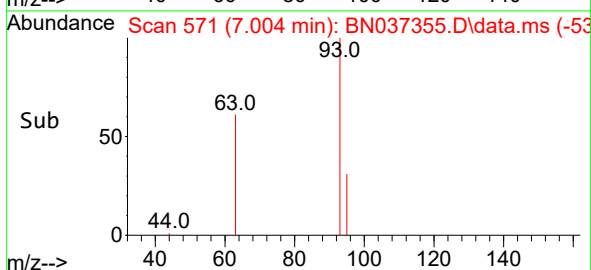
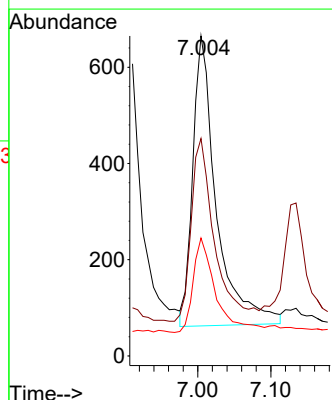
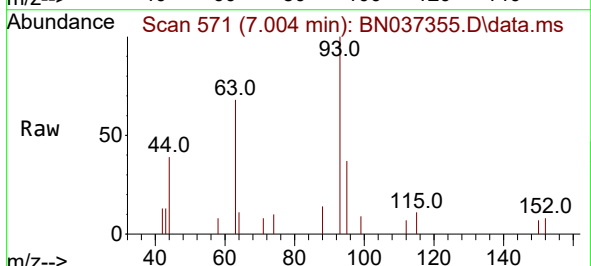
Manual Integrations
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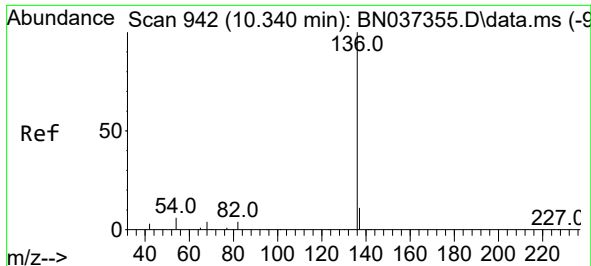
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.446 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

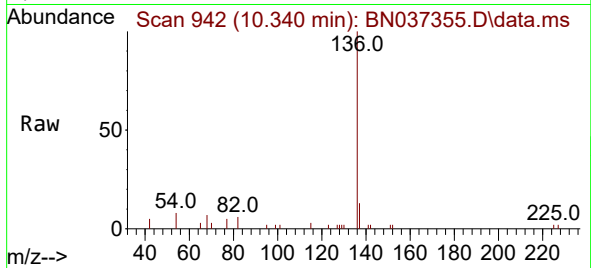
Tgt Ion: 93 Resp: 1351
Ion Ratio Lower Upper
93 100
63 60.9 53.2 79.8
95 31.1 27.3 40.9





#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

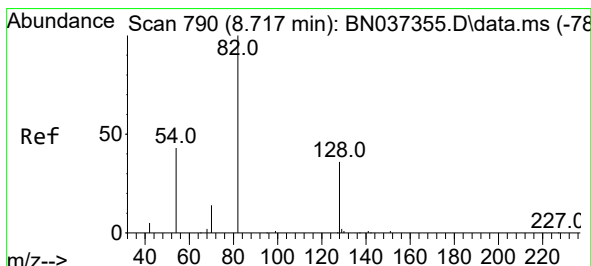
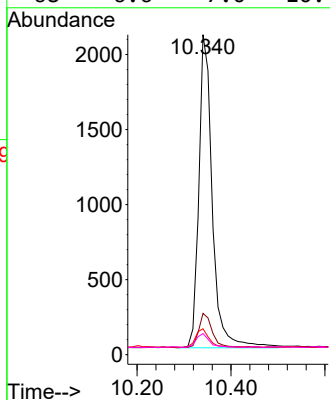
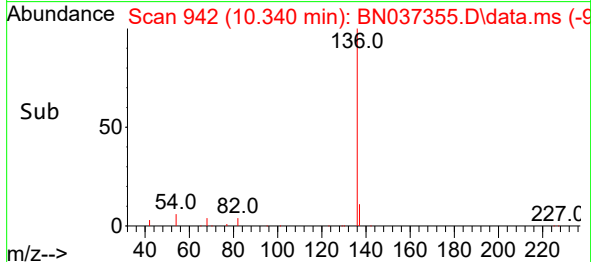
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:136 Resp: 415
Ion Ratio Lower Upper
136 100
137 12.9 12.2 18.2
54 8.1 8.8 13.2
68 6.6 7.0 10.4#

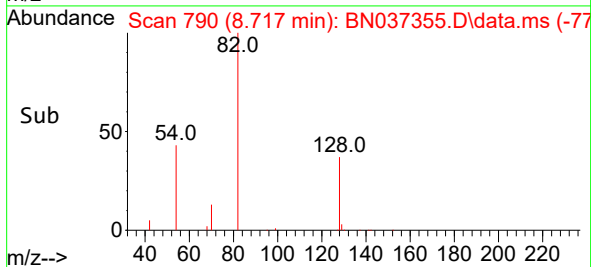
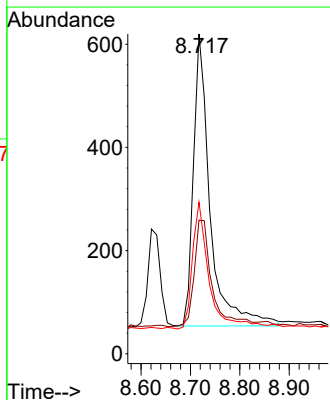
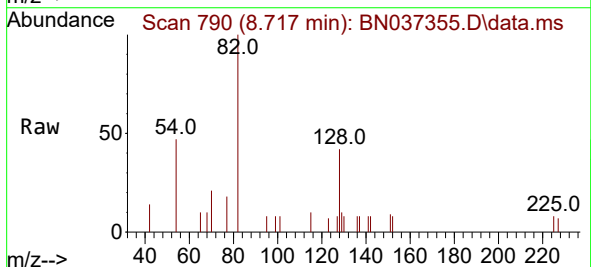
Manual Integrations
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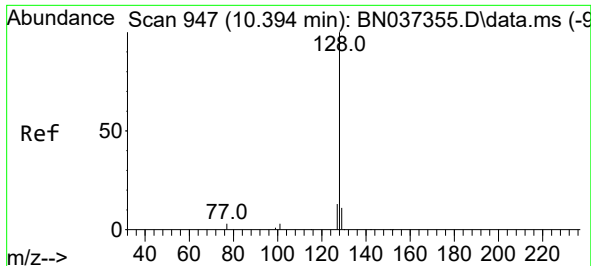
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025



#8
Nitrobenzene-d5
Concen: 0.385 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

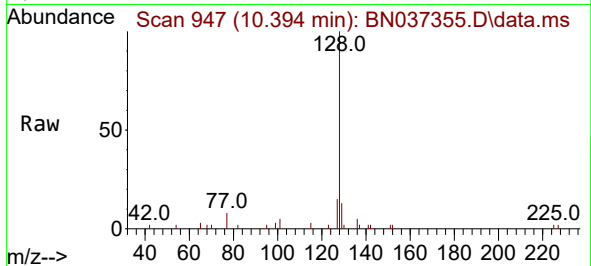
Tgt Ion: 82 Resp: 1327
Ion Ratio Lower Upper
82 100
128 41.8 42.5 63.7#
54 47.4 43.2 64.8





#9
Naphthalene
Concen: 0.403 ng
RT: 10.394 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

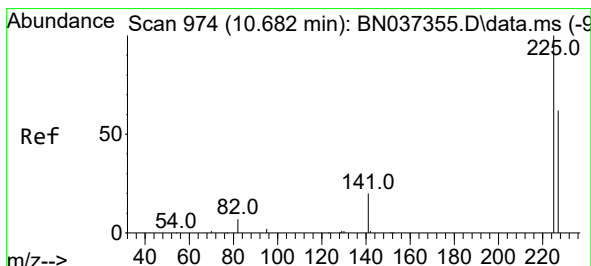
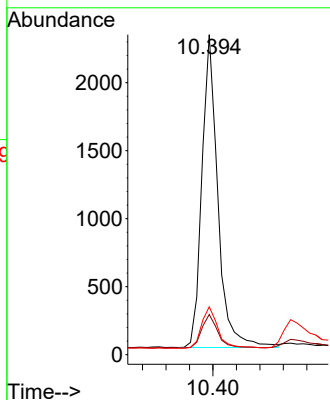
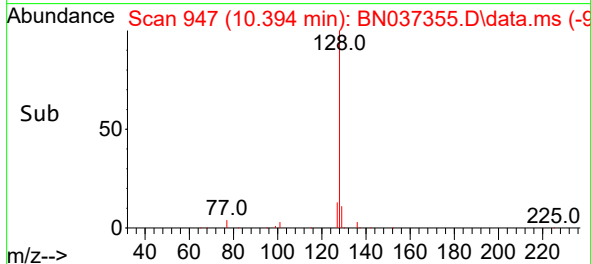
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:128 Resp: 434
Ion Ratio Lower Upper
128 100
129 12.5 14.0 21.0
127 14.9 15.8 23.8

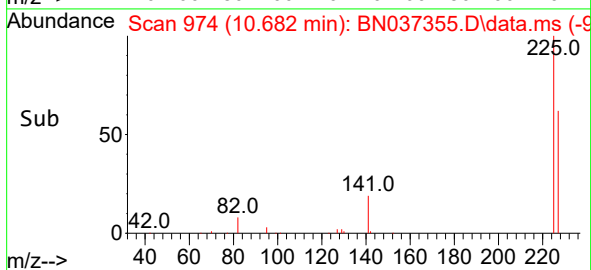
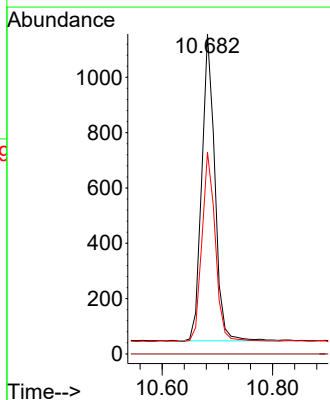
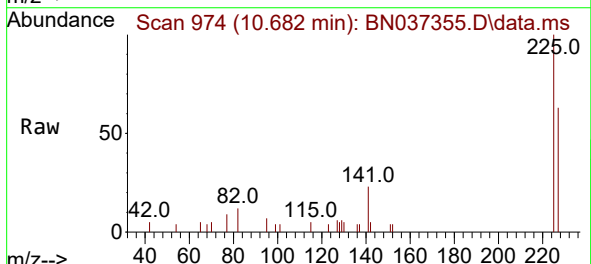
Manual Integrations
APPROVED

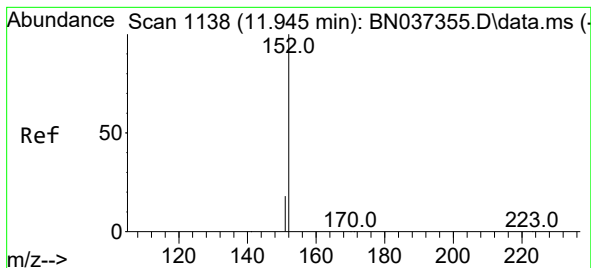
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025



#10
Hexachlorobutadiene
Concen: 0.348 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

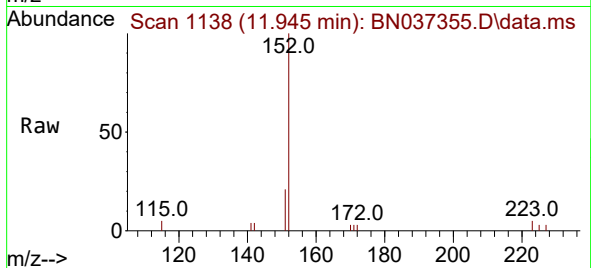
Tgt Ion:225 Resp: 1832
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.4 50.3 75.5





#11
2-Methylnaphthalene-d10
Concen: 0.411 ng
RT: 11.945 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

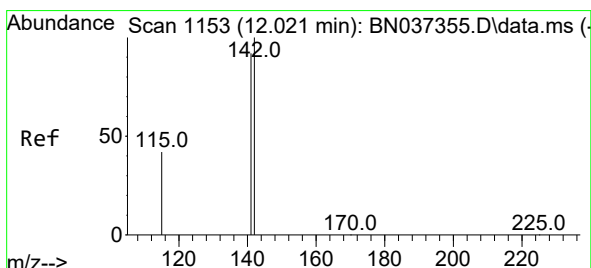
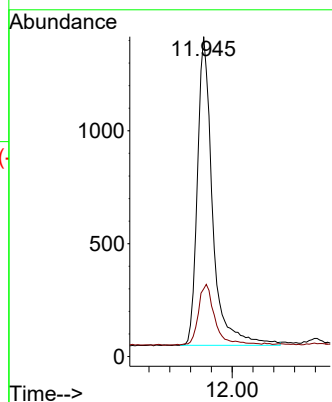
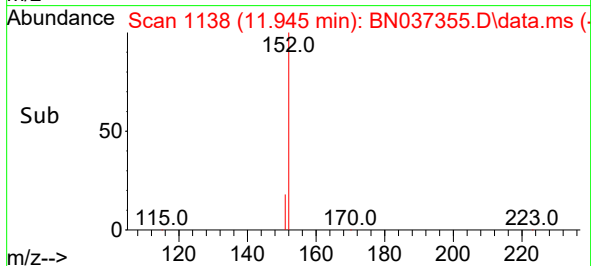
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



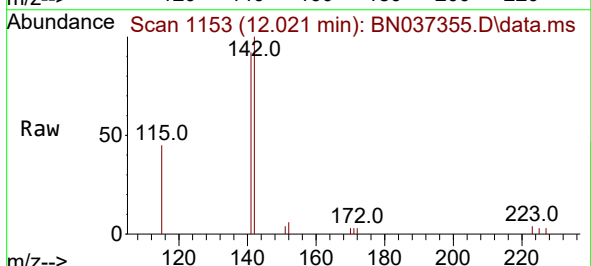
Tgt Ion:152 Resp: 2768
Ion Ratio Lower Upper
152 100
151 21.9 17.4 26.0

Manual Integrations
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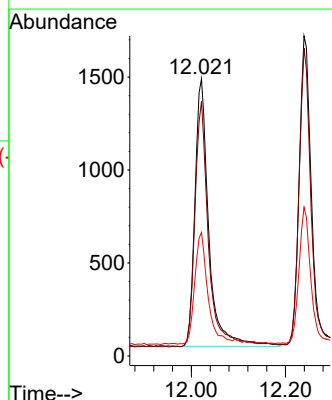
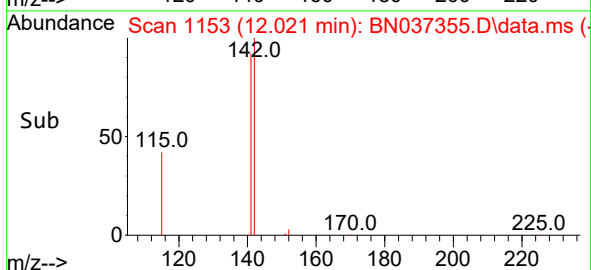
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

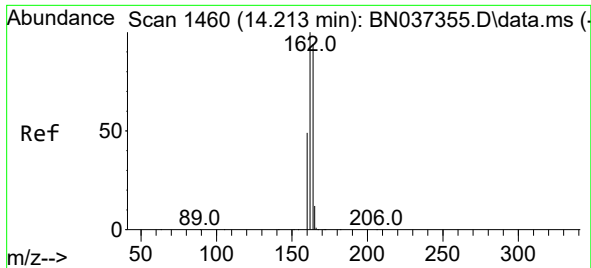


#12
2-Methylnaphthalene
Concen: 0.390 ng
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03



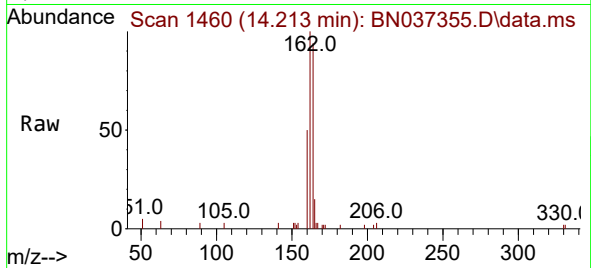
Tgt Ion:142 Resp: 2957
Ion Ratio Lower Upper
142 100
141 91.8 70.2 105.2
115 44.5 43.0 64.4





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

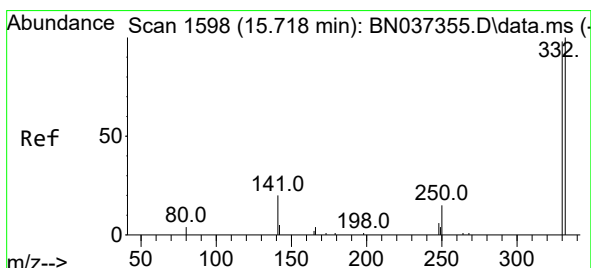
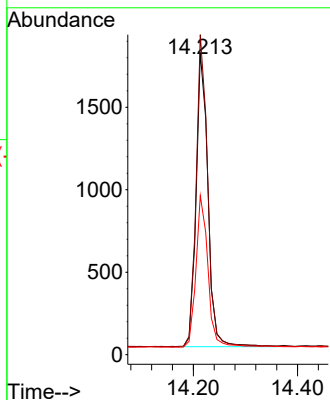
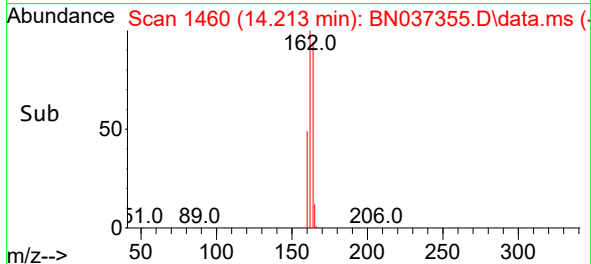
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



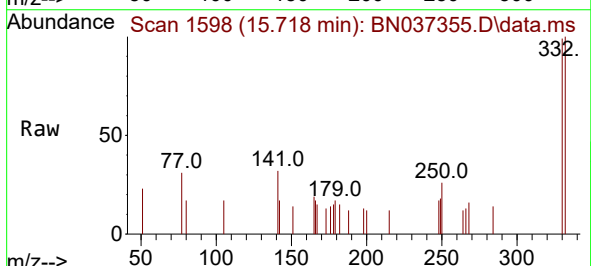
Tgt Ion:164 Resp: 281
Ion Ratio Lower Upper
164 100
162 106.2 81.5 122.3
160 52.8 43.0 64.4

Manual Integrations
APPROVED

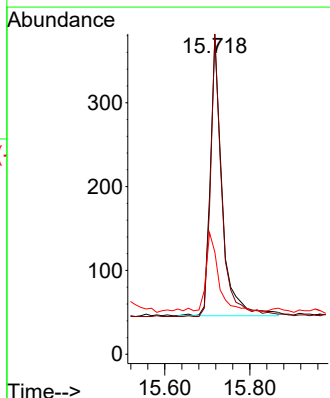
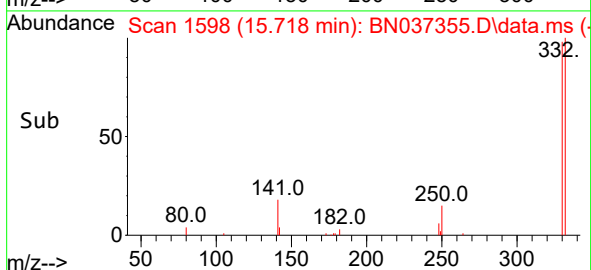
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

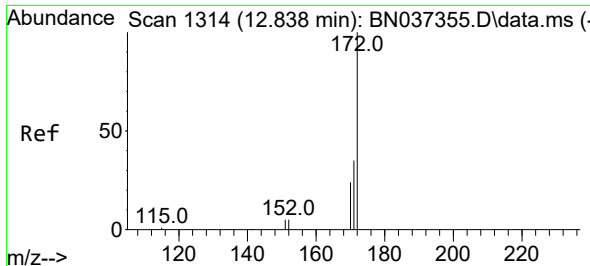


#14
2,4,6-Tribromophenol
Concen: 0.321 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03



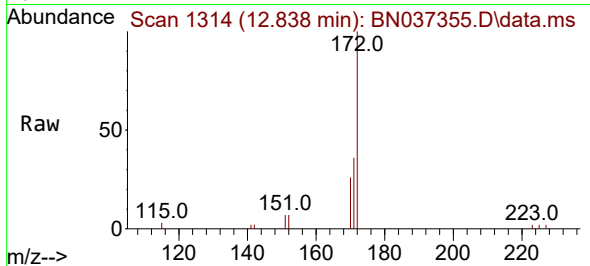
Tgt Ion:330 Resp: 646
Ion Ratio Lower Upper
330 100
332 96.3 78.4 117.6
141 29.6 24.4 36.6





#15
2-Fluorobiphenyl
Concen: 0.405 ng
RT: 12.838 min Scan# 1314
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

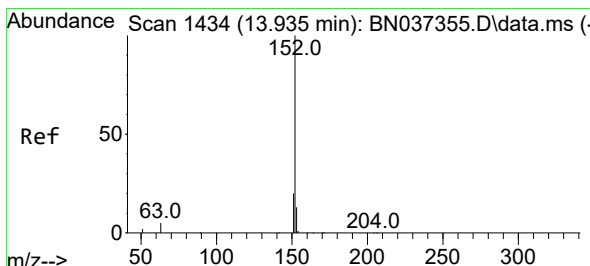
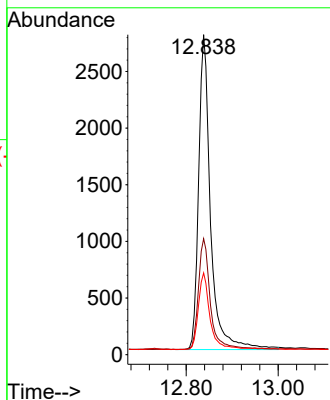
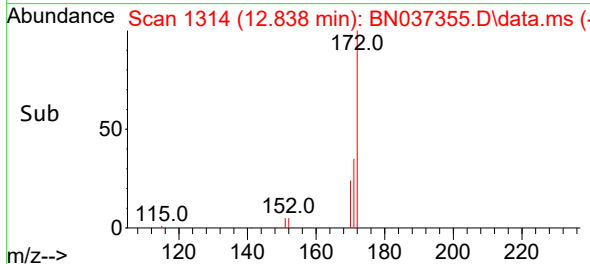
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



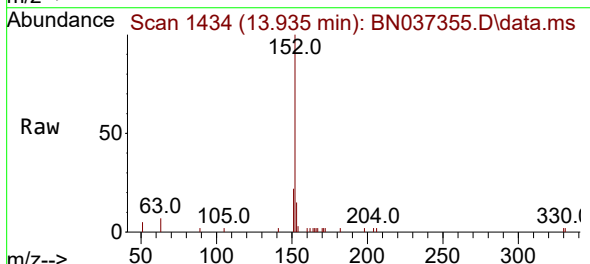
Tgt Ion:172 Resp: 4990
Ion Ratio Lower Upper
172 100
171 36.2 30.8 46.2
170 25.6 21.9 32.9

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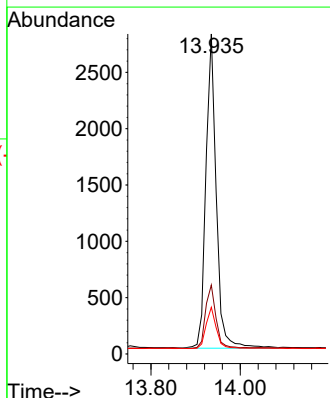
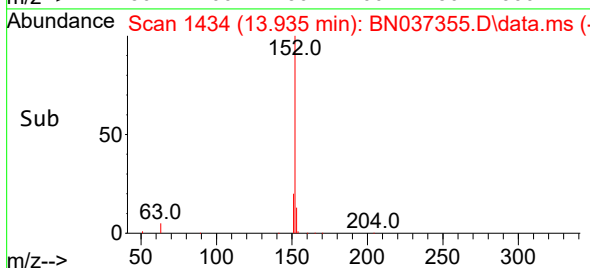
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

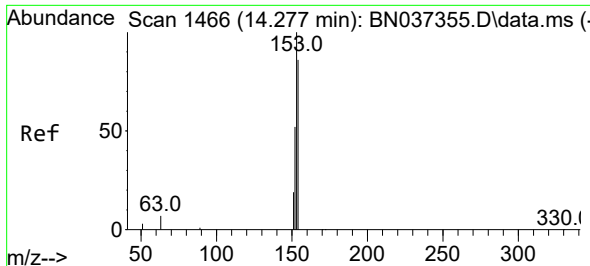


#16
Acenaphthylene
Concen: 0.381 ng
RT: 13.935 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03



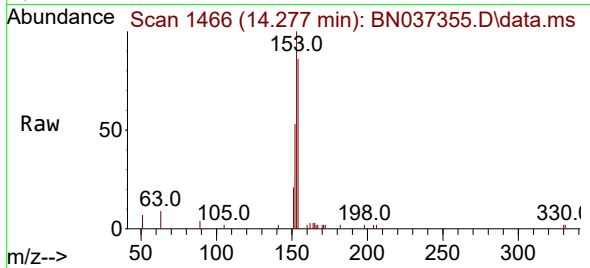
Tgt Ion:152 Resp: 4490
Ion Ratio Lower Upper
152 100
151 20.3 16.6 24.8
153 13.1 10.2 15.2





#17
Acenaphthene
Concen: 0.381 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

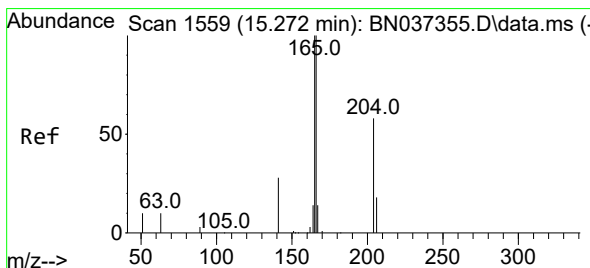
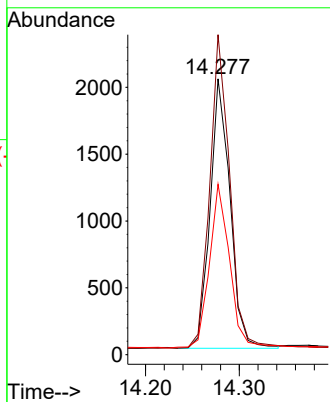
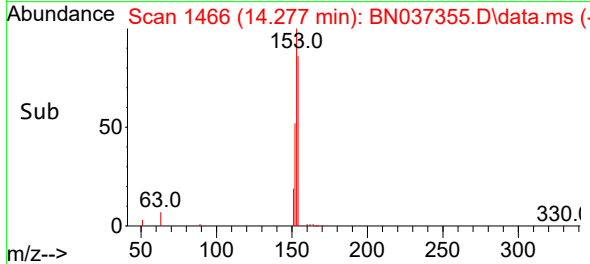
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion:154 Resp: 298
Ion Ratio Lower Upper
154 100
153 117.6 93.1 139.7
152 63.0 48.6 73.0

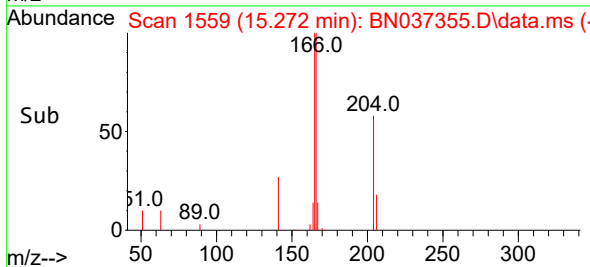
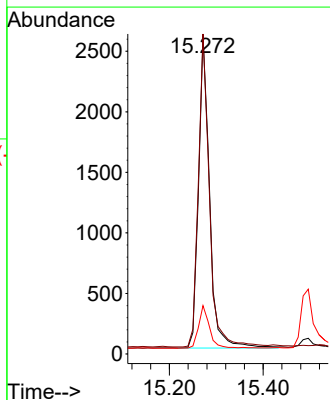
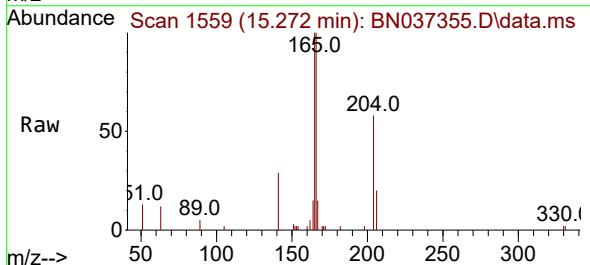
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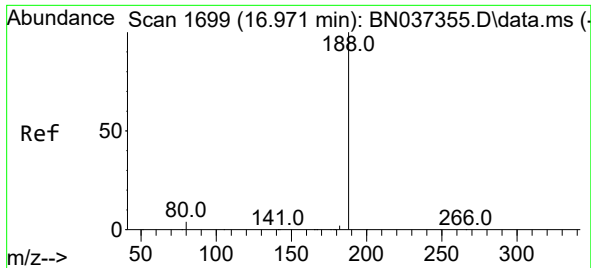
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025



#18
Fluorene
Concen: 0.382 ng
RT: 15.272 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:166 Resp: 4232
Ion Ratio Lower Upper
166 100
165 99.8 79.5 119.3
167 13.6 10.7 16.1





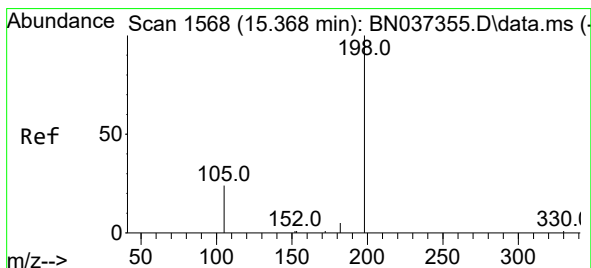
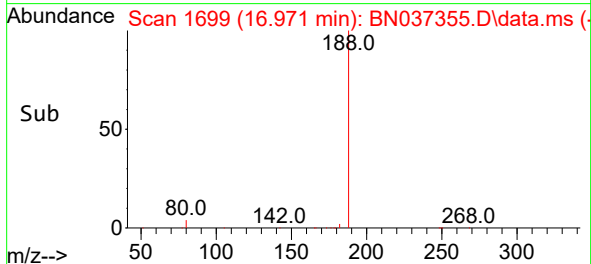
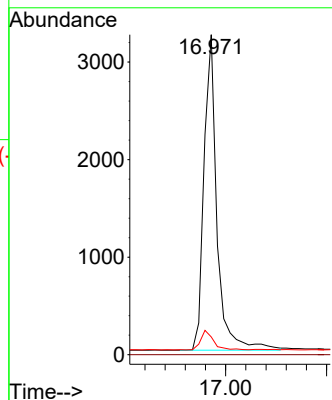
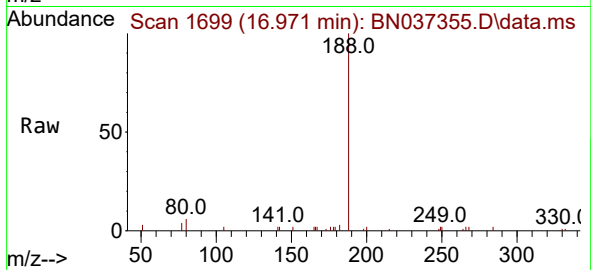
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 5770
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 5.6 6.2 9.2

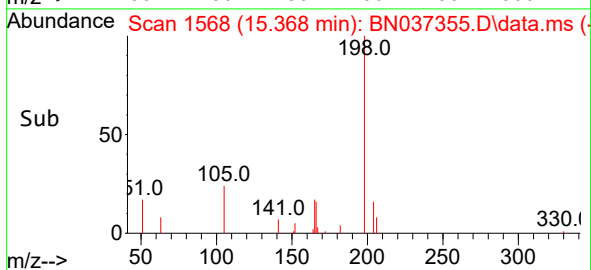
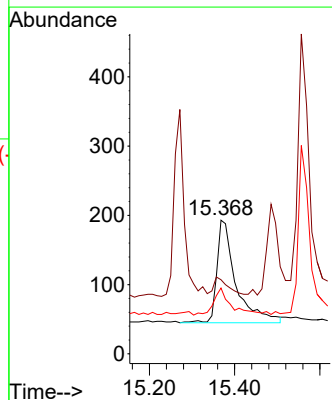
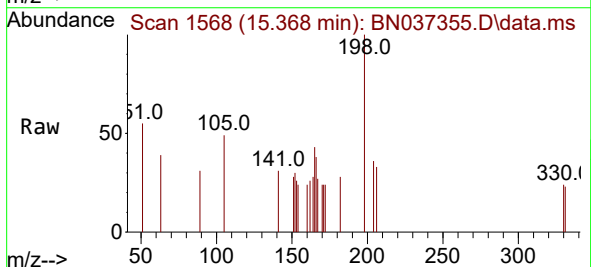
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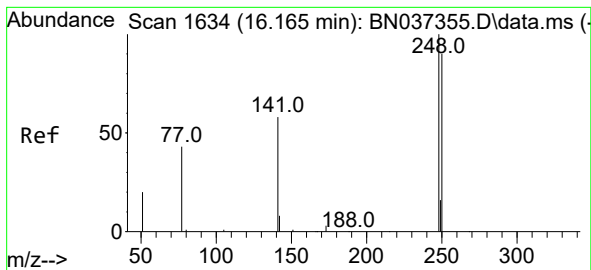
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025



#20
4,6-Dinitro-2-methylphenol
Concen: 0.263 ng
RT: 15.368 min Scan# 1568
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:198 Resp: 459
Ion Ratio Lower Upper
198 100
51 55.4 51.4 77.0
105 49.2 45.5 68.3





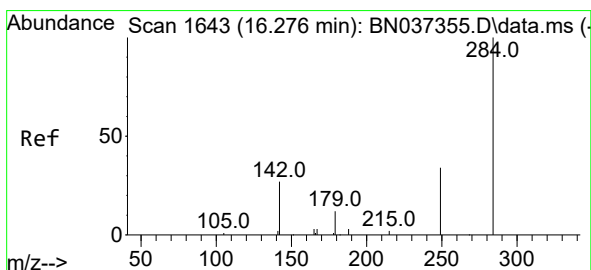
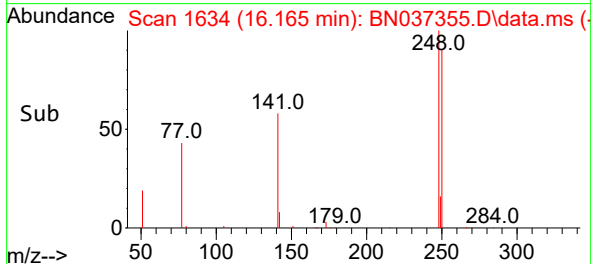
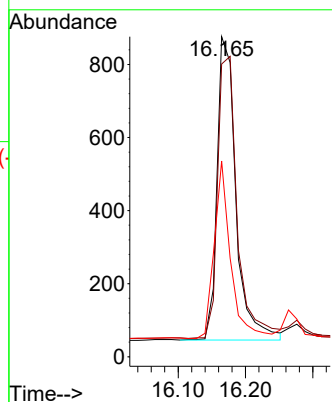
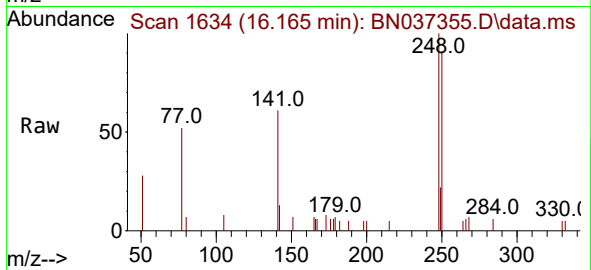
#21
4-Bromophenyl-phenylether
Concen: 0.342 ng
RT: 16.165 min Scan# 1634
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 161
Ion Ratio Lower Upper
248 100
250 91.4 80.4 120.6
141 61.2 33.3 49.9

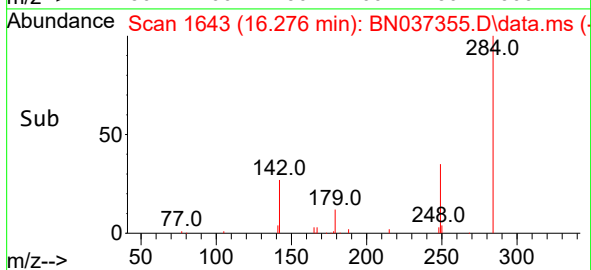
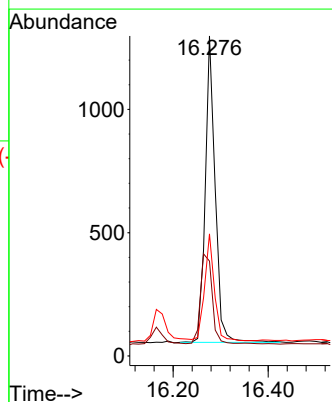
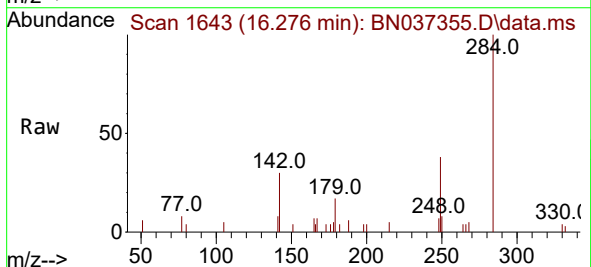
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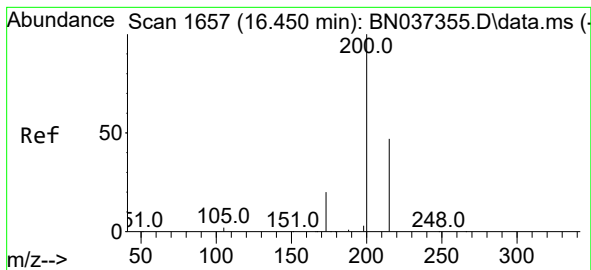
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025



#22
Hexachlorobenzene
Concen: 0.369 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:284 Resp: 1814
Ion Ratio Lower Upper
284 100
142 34.2 27.0 40.6
249 34.2 28.8 43.2





#23

Atrazine

Concen: 0.342 ng

RT: 16.450 min Scan# 1657

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

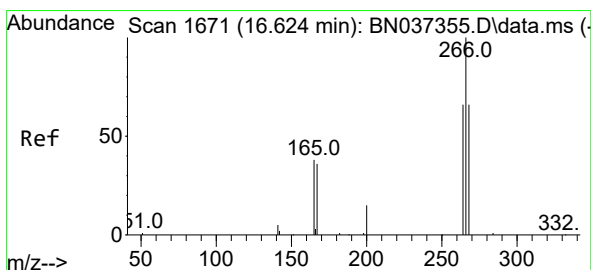
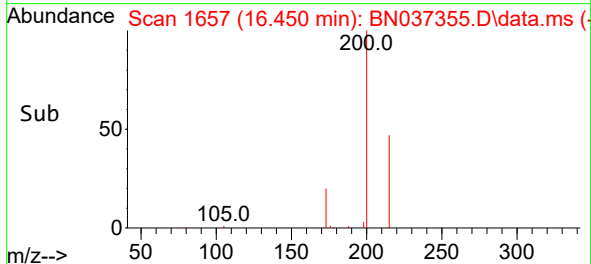
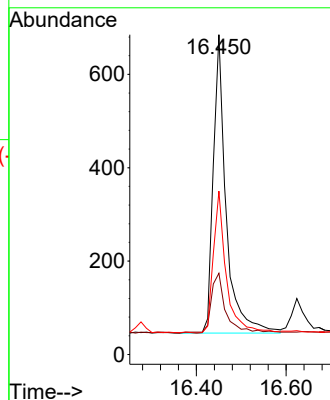
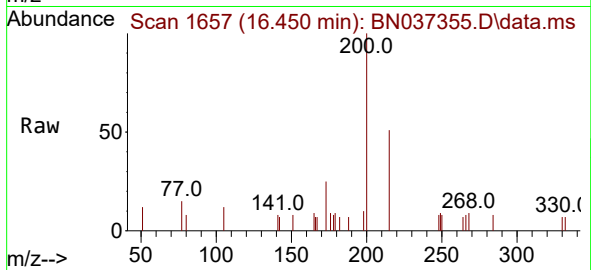
Tgt Ion:	200	Resp:	126
Ion Ratio	Lower	Upper	
200	100		
173	25.4	29.2	43.8
215	51.1	48.8	73.2

Manual Integrations

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Supervised By :Jagrut Upadhyay 06/24/2025



#24

Pentachlorophenol

Concen: 0.293 ng

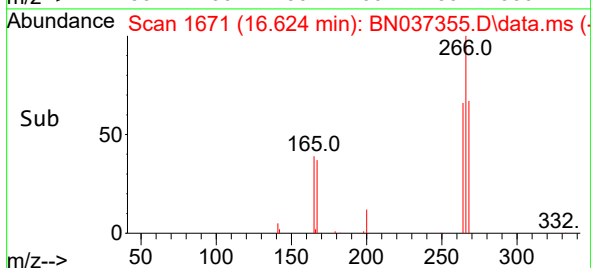
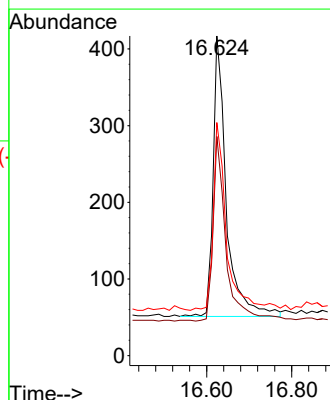
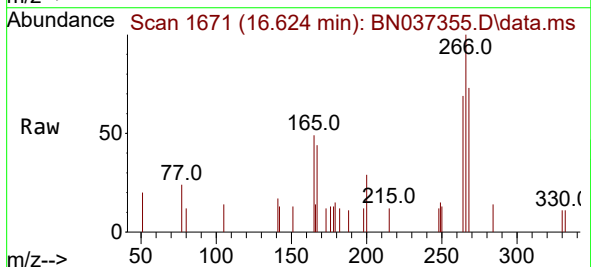
RT: 16.624 min Scan# 1671

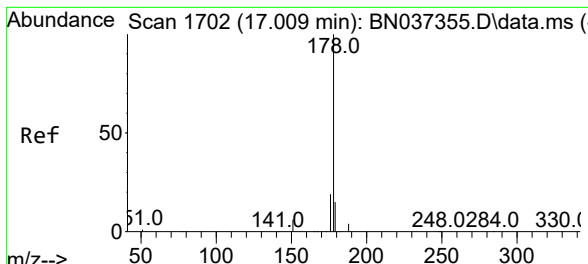
Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

Tgt Ion:	266	Resp:	792
Ion Ratio	Lower	Upper	
266	100		
264	64.3	50.3	75.5
268	67.4	55.3	82.9





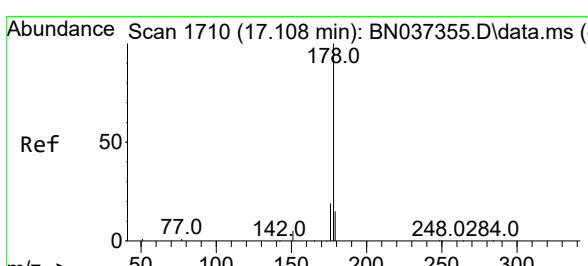
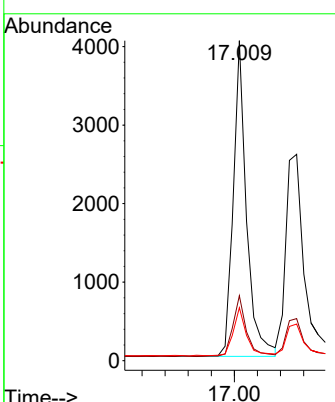
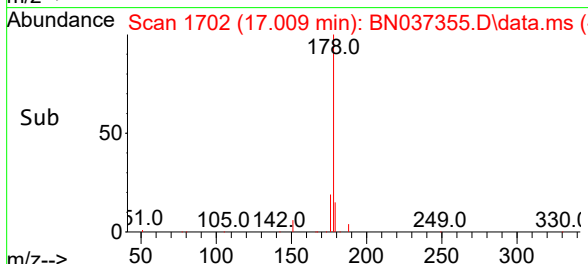
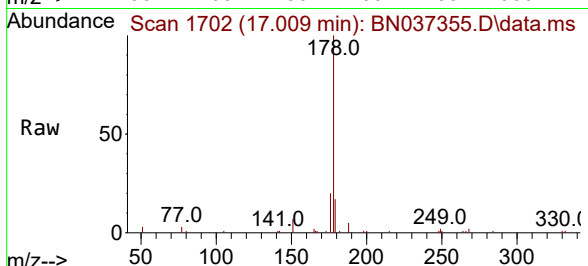
#25
 Phenanthrene
 Concen: 0.391 ng
 RT: 17.009 min Scan# 1702
 Delta R.T. 0.000 min
 Lab File: BN037355.D
 Acq: 20 Jun 2025 18:03

Instrument : BNA_N
 ClientSampleId : SSTDICC0.4

Tgt Ion: 178 Resp: 6374

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.2	22.8
179	15.8	12.9	19.3

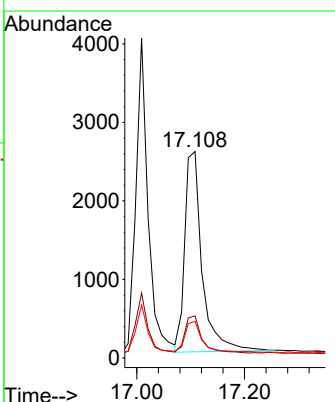
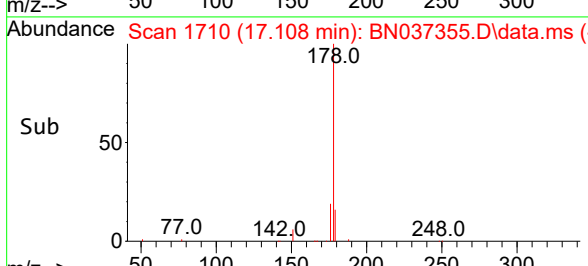
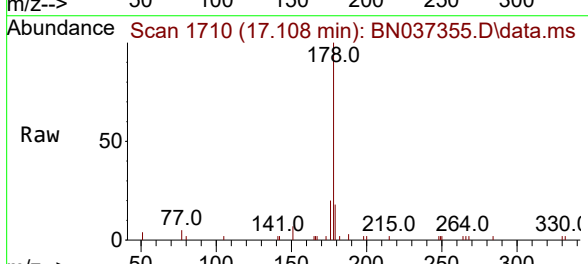
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 Reviewed By :Rahul Chavli 06/23/2025
 Supervised By :Jagrut Upadhyay 06/24/2025

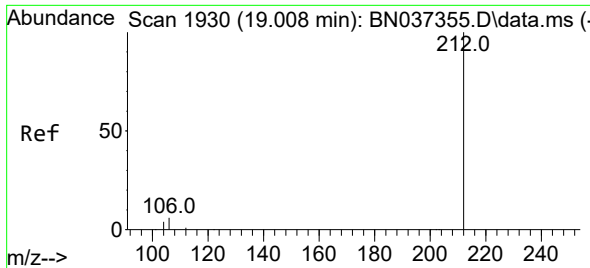


#26
 Anthracene
 Concen: 0.375 ng
 RT: 17.108 min Scan# 1710
 Delta R.T. 0.000 min
 Lab File: BN037355.D
 Acq: 20 Jun 2025 18:03

Tgt Ion: 178 Resp: 5717

Ion	Ratio	Lower	Upper
178	100		
176	18.2	14.7	22.1
179	15.2	13.0	19.6





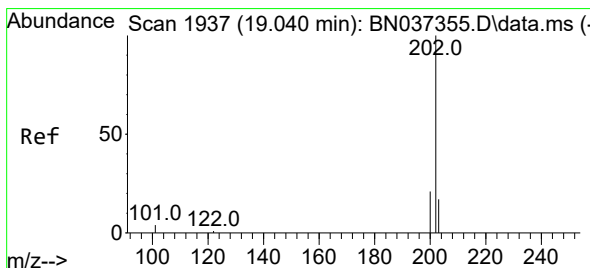
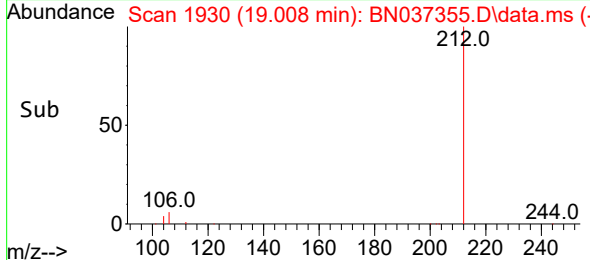
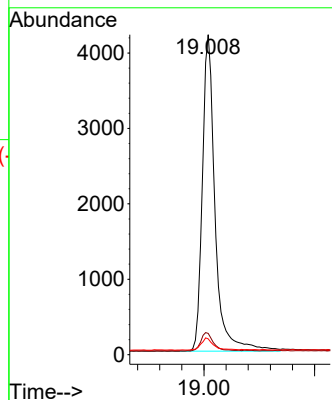
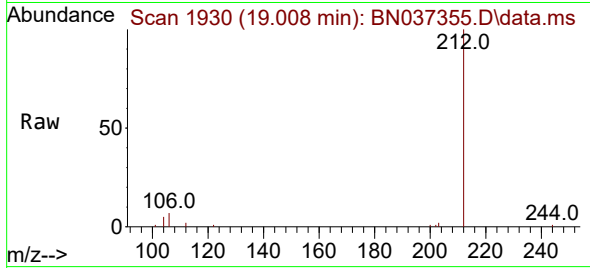
#27
Fluoranthene-d10
Concen: 0.373 ng
RT: 19.008 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 670
Ion Ratio Lower Upper
212 100
106 5.8 3.0 4.4
104 3.8 2.0 3.0

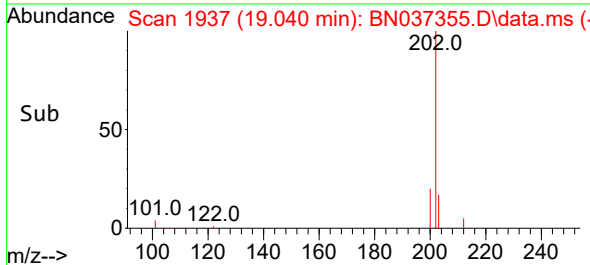
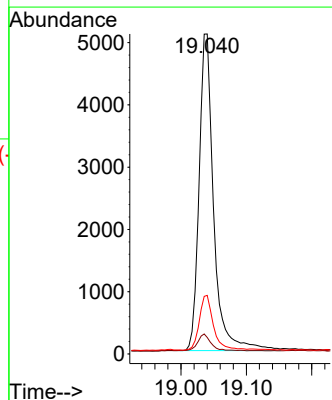
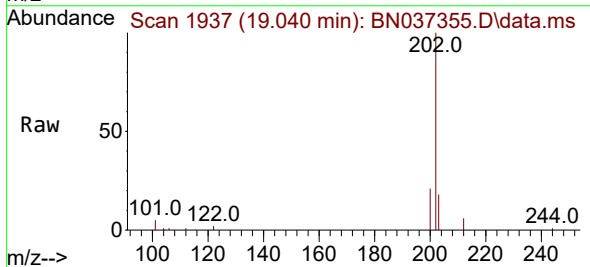
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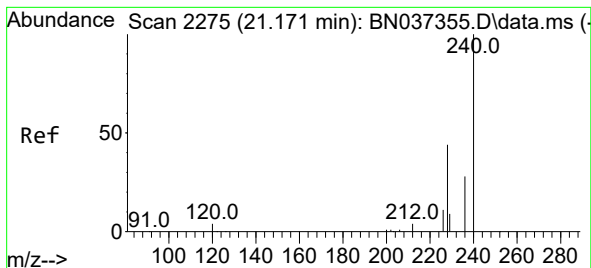
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025



#28
Fluoranthene
Concen: 0.354 ng
RT: 19.040 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:202 Resp: 7896
Ion Ratio Lower Upper
202 100
101 5.2 3.0 4.6
203 16.6 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 2115

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

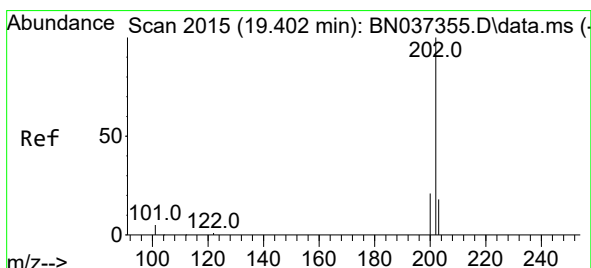
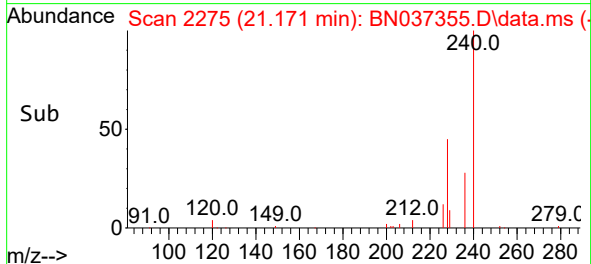
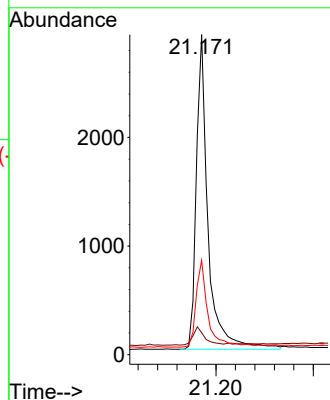
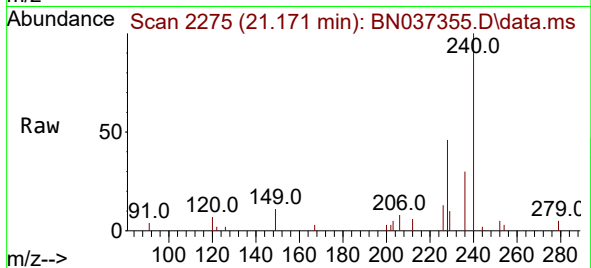
Tgt Ion:	240	Resp:	481
Ion Ratio	Lower	Upper	
240	100		
120	6.9	7.5	11.3
236	29.5	24.9	37.3

Manual Integrations

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Supervised By :Jagrut Upadhyay 06/24/2025



#30

Pyrene

Concen: 0.434 ng

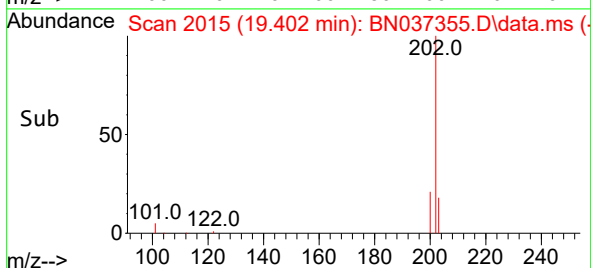
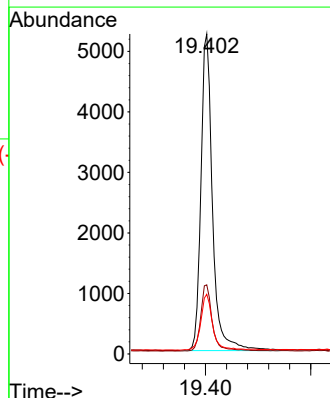
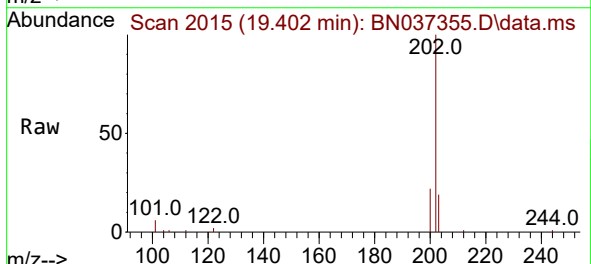
RT: 19.402 min Scan# 2015

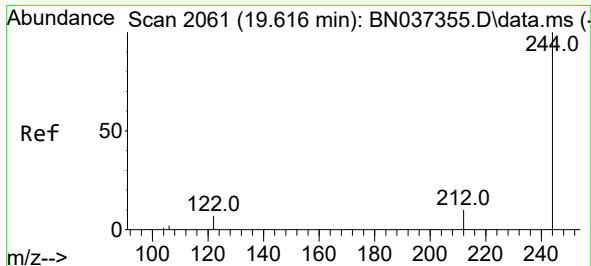
Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

Tgt Ion:	202	Resp:	7990
Ion Ratio	Lower	Upper	
202	100		
200	21.1	16.8	25.2
203	18.0	14.5	21.7





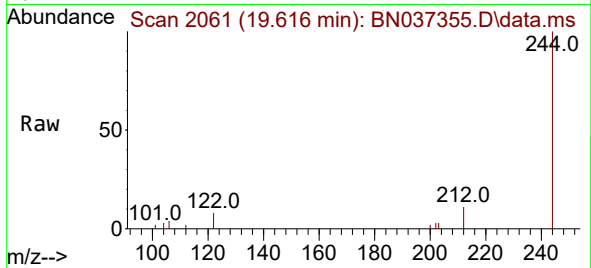
#31
 Terphenyl-d14
 Concen: 0.405 ng
 RT: 19.616 min Scan# 2061
 Delta R.T. 0.000 min
 Lab File: BN037355.D
 Acq: 20 Jun 2025 18:03

Instrument :

BNA_N

ClientSampleId :

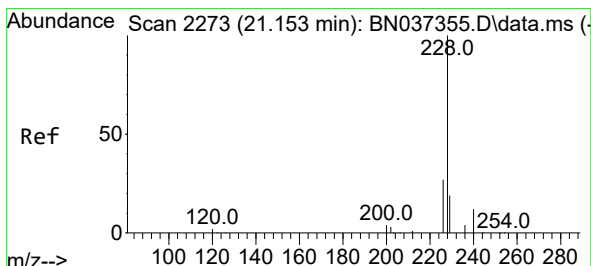
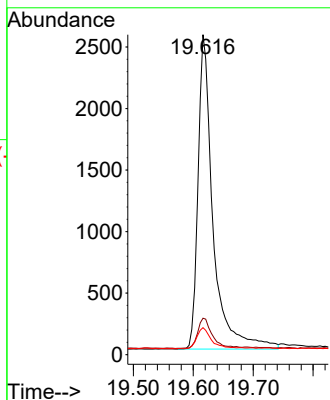
SSTDICCC0.4



Tgt Ion:244 Resp: 445
 Ion Ratio Lower Upper
 244 100
 212 11.4 11.1 16.7
 122 8.5 7.2 10.8

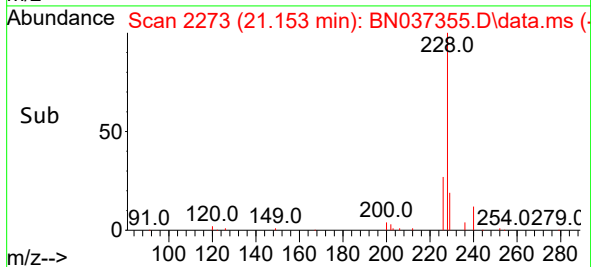
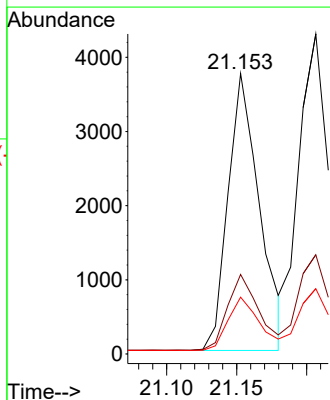
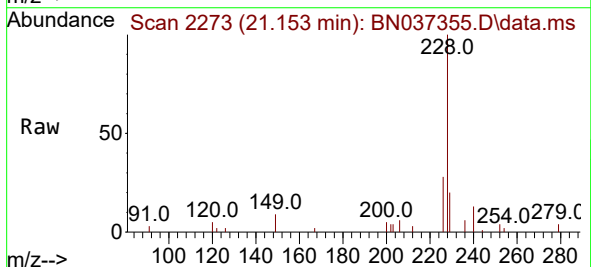
Manual Integrations
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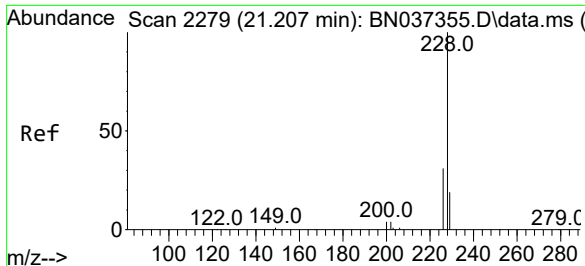
Reviewed By :Rahul Chavli 06/23/2025
 Supervised By :Jagrut Upadhyay 06/24/2025



#32
 Benzo(a)anthracene
 Concen: 0.377 ng
 RT: 21.153 min Scan# 2273
 Delta R.T. 0.000 min
 Lab File: BN037355.D
 Acq: 20 Jun 2025 18:03

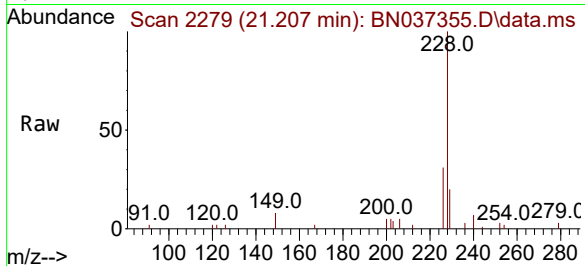
Tgt Ion:228 Resp: 5851
 Ion Ratio Lower Upper
 228 100
 226 28.4 23.0 34.4
 229 20.3 17.4 26.0





#33
Chrysene
Concen: 0.394 ng
RT: 21.207 min Scan# 2127
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

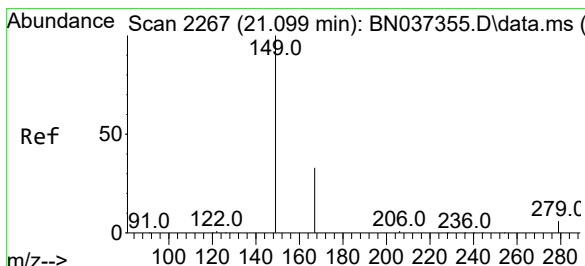
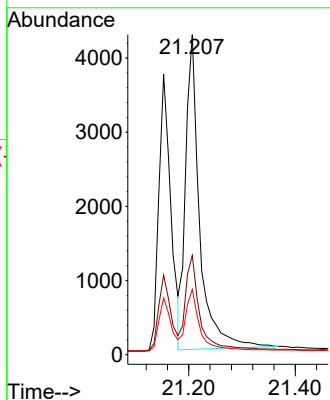
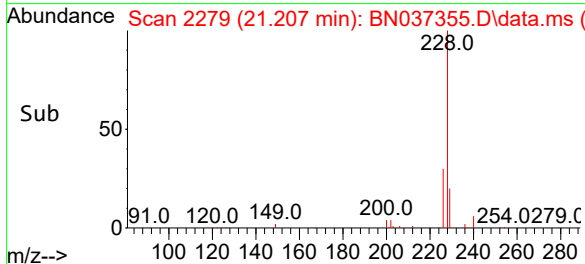
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



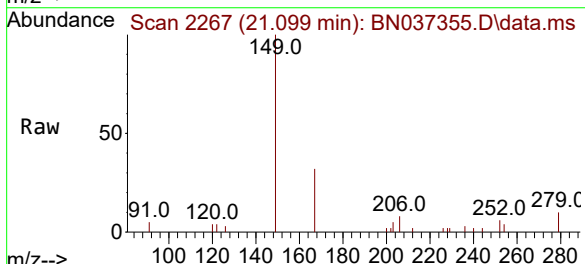
Tgt Ion: 228 Resp: 7754
Ion Ratio Lower Upper
228 100
226 31.0 25.4 38.2
229 20.4 17.3 25.9

Manual Integrations
APPROVED

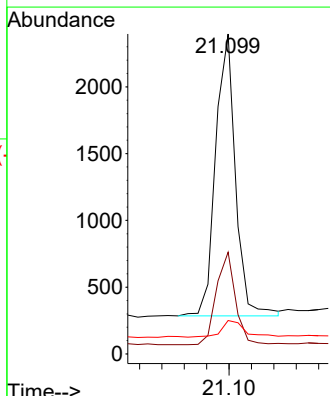
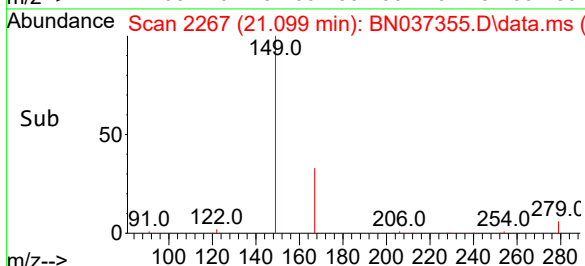
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

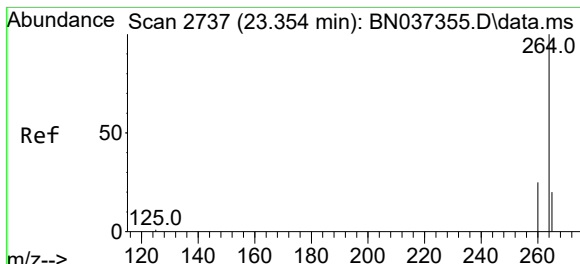


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.409 ng
RT: 21.099 min Scan# 2267
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03



Tgt Ion: 149 Resp: 2603
Ion Ratio Lower Upper
149 100
167 31.9 24.6 37.0
279 7.2 6.5 9.7





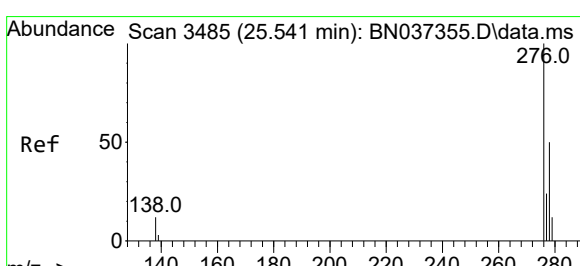
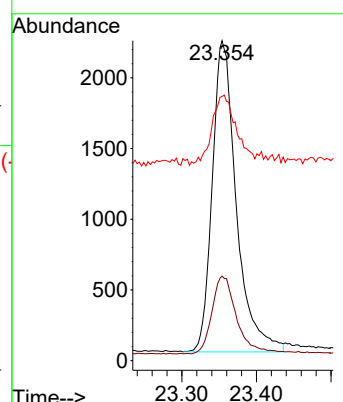
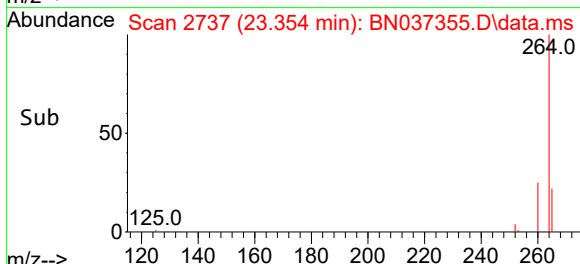
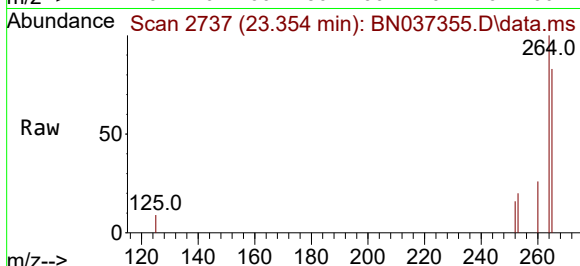
#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.354 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: BN037355.D
 Acq: 20 Jun 2025 18:03

Instrument : BNA_N
 ClientSampleId : SSTDICC0.4

Tgt Ion: 264 Resp: 494

Ion	Ratio	Lower	Upper
264	100		
260	26.5	21.4	32.2
265	82.6	71.4	107.0

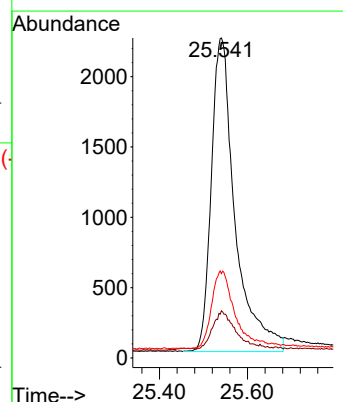
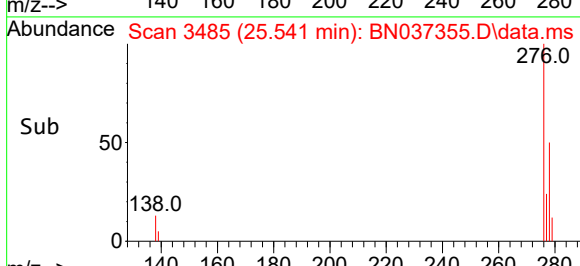
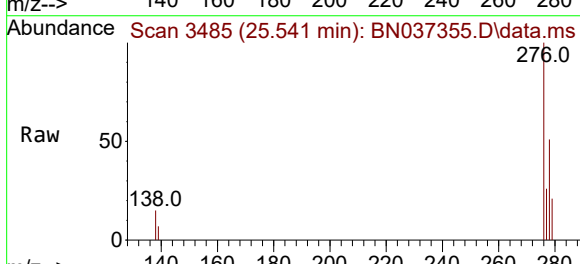
Manual Integrations
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 Reviewed By :Rahul Chavli 06/23/2025
 Supervised By :Jagrut Upadhyay 06/24/2025

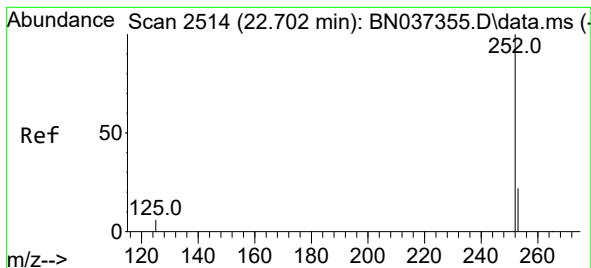


#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.400 ng
 RT: 25.541 min Scan# 3485
 Delta R.T. 0.000 min
 Lab File: BN037355.D
 Acq: 20 Jun 2025 18:03

Tgt Ion: 276 Resp: 8379

Ion	Ratio	Lower	Upper
276	100		
138	11.3	2.2	3.2
277	23.4	17.1	25.7





#37

Benzo(b)fluoranthene

Concen: 0.407 ng m

RT: 22.702 min Scan# 2514

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

Instrument :

BN037355.D

ClientSampleId :

SSTDICCC0.4

Tgt Ion:252 Resp: 7138

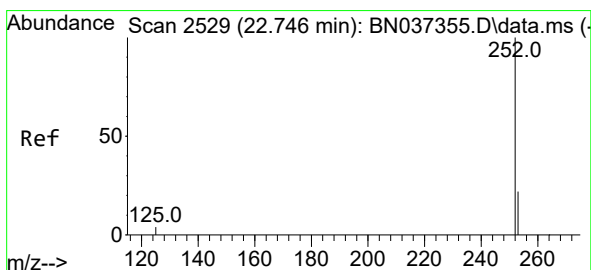
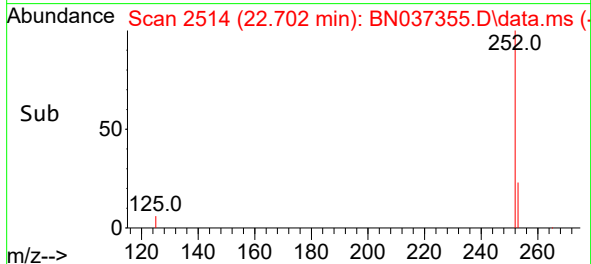
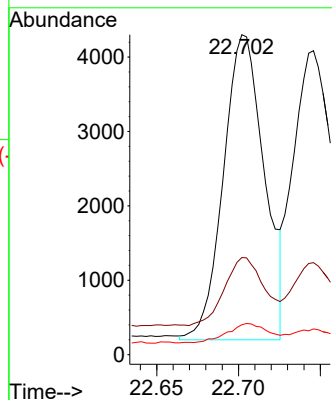
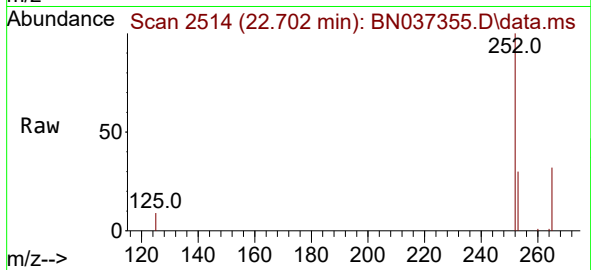
Ion	Ratio	Lower	Upper
252	100		
253	30.3	26.6	40.0
125	9.4	6.1	9.1

Manual Integrations

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Reviewed By :Rahul Chavli 06/23/2025

Supervised By :Jagrut Upadhyay 06/24/2025



#38

Benzo(k)fluoranthene

Concen: 0.407 ng

RT: 22.746 min Scan# 2529

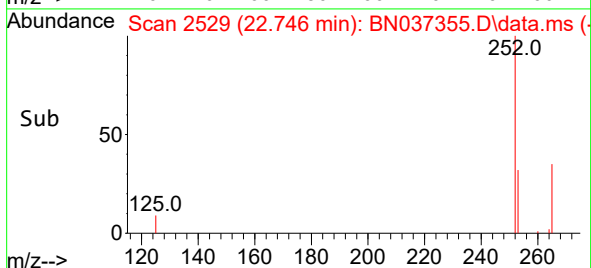
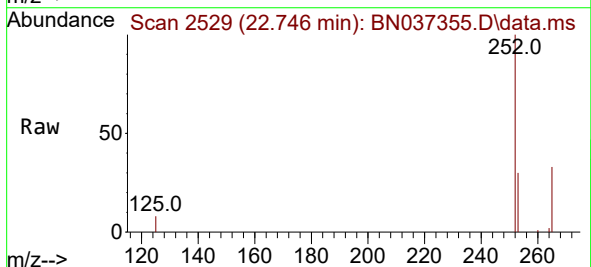
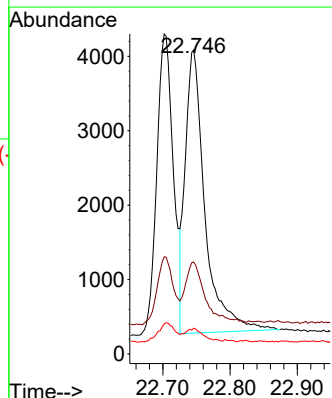
Delta R.T. 0.000 min

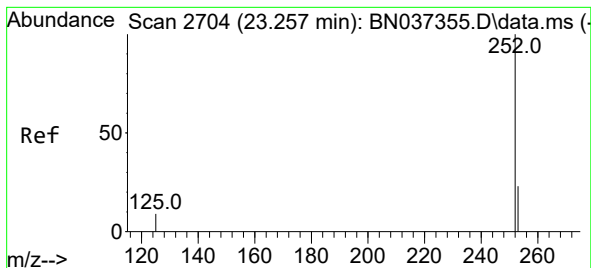
Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

Tgt Ion:252 Resp: 7755

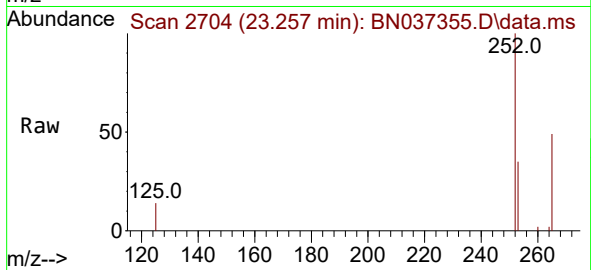
Ion	Ratio	Lower	Upper
252	100		
253	30.3	26.7	40.1
125	8.5	6.5	9.7





#39
Benzo(a)pyrene
Concen: 0.393 ng
RT: 23.257 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

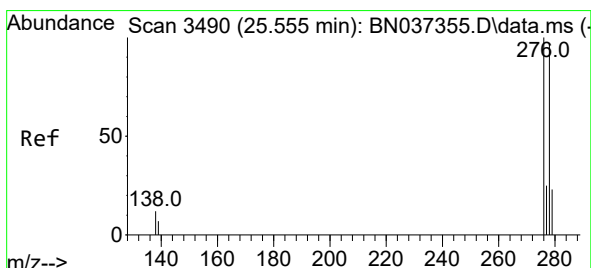
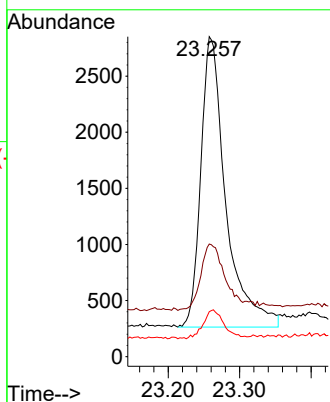
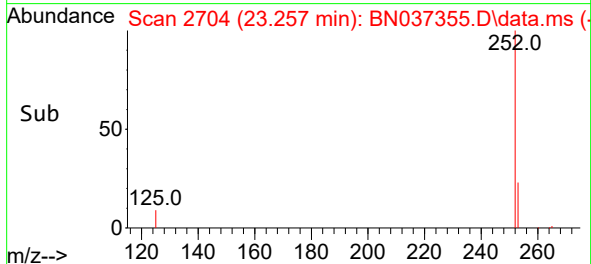
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



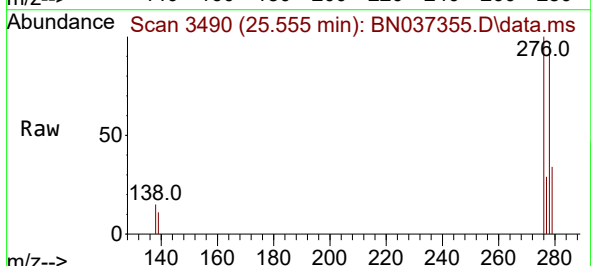
Tgt Ion:252 Resp: 6298
Ion Ratio Lower Upper
252 100
253 35.2 31.6 47.4
125 14.0 8.4 12.6

Manual Integrations
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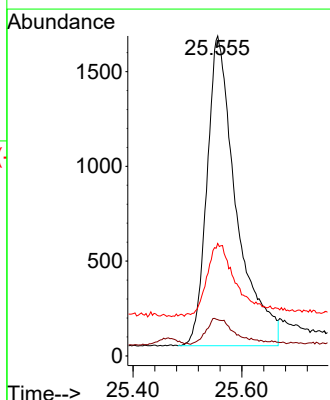
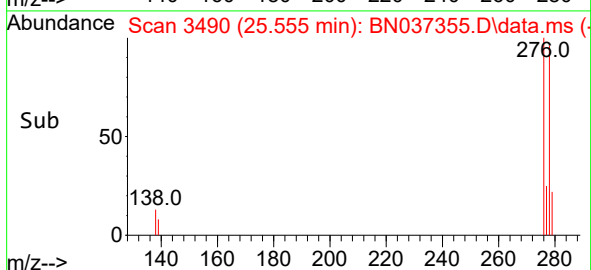
Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025

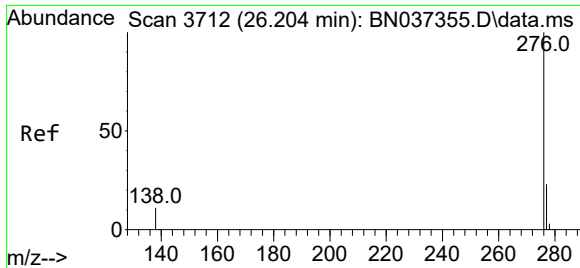


#40
Dibenzo(a,h)anthracene
Concen: 0.366 ng
RT: 25.555 min Scan# 3490
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03



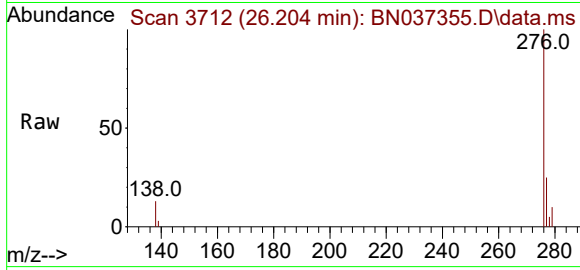
Tgt Ion:278 Resp: 6108
Ion Ratio Lower Upper
278 100
139 11.3 10.2 15.4
279 35.1 35.6 53.4





#41
Benzo(g,h,i)perylene
Concen: 0.408 ng
RT: 26.204 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

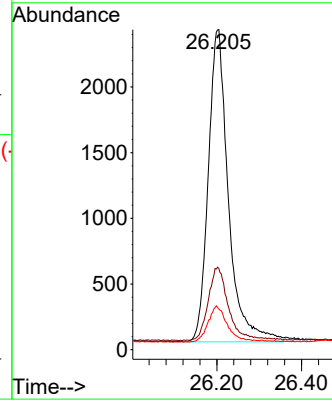
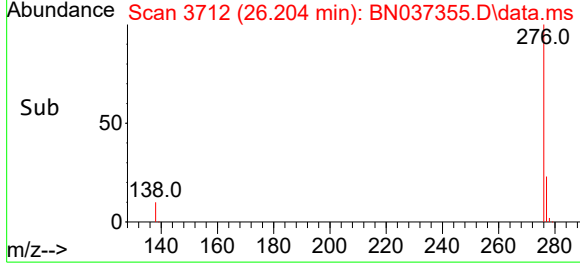
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4



Tgt Ion: 276 Resp: 7852
Ion Ratio Lower Upper
276 100
277 25.4 22.7 34.1
138 12.7 9.4 14.2

Manual Integrations
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Reviewed By :Rahul Chavli 06/23/2025
Supervised By :Jagrut Upadhyay 06/24/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037356.D
 Acq On : 20 Jun 2025 18:39
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Jun 20 23:27:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:25:11 2025
 Response via : Initial Calibration

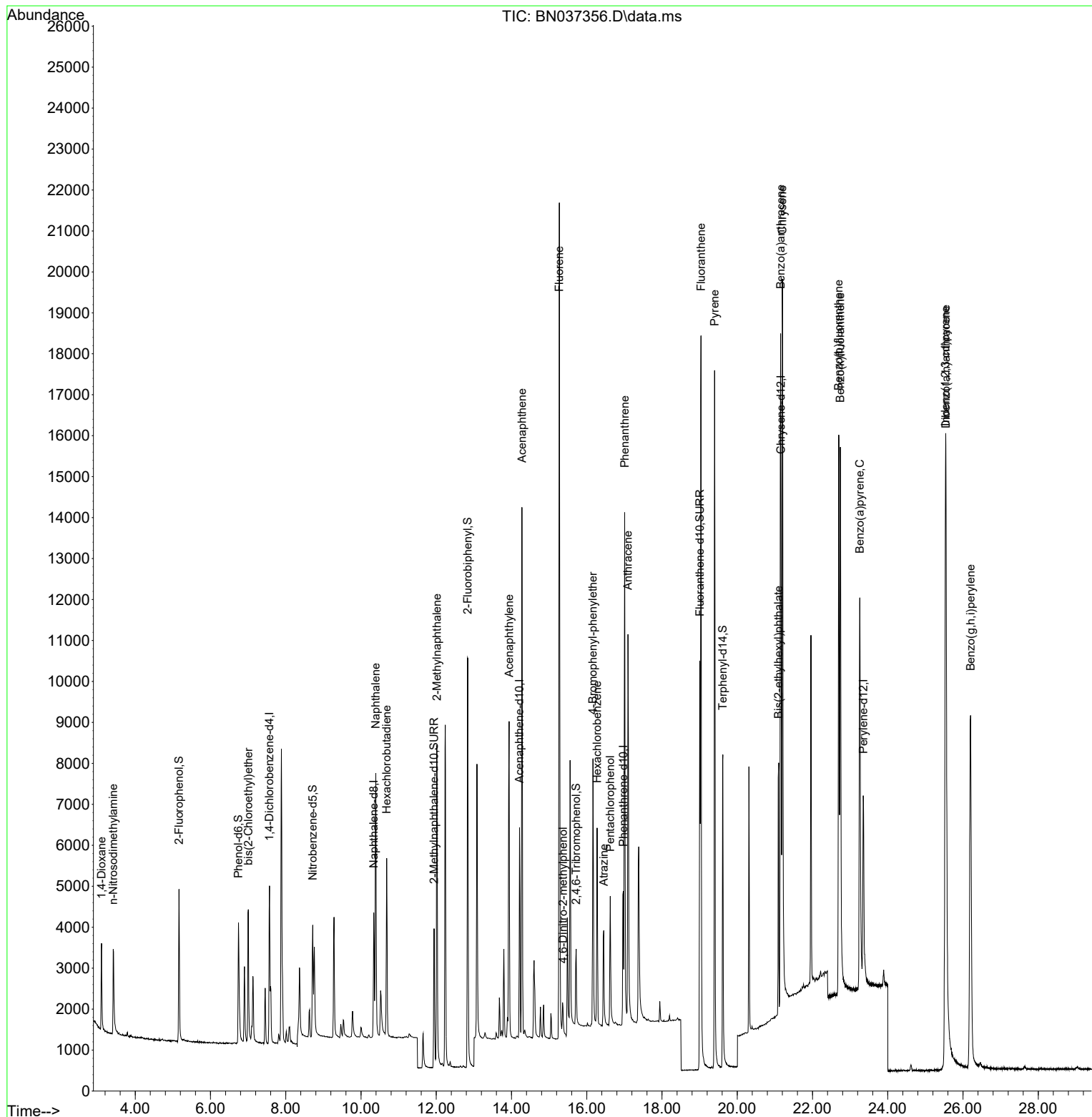
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	2011	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4268	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2836	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5716	0.400	ng	# 0.00
29) Chrysene-d12	21.162	240	5944	0.400	ng	0.00
35) Perylene-d12	23.351	264	6423	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	3141	0.854	ng	0.00
5) Phenol-d6	6.744	99	3157	0.868	ng	0.00
8) Nitrobenzene-d5	8.717	82	2717	0.767	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	5209	0.754	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	1310	0.646	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	9720	0.781	ng	0.00
27) Fluoranthene-d10	19.003	212	13334	0.749	ng	0.00
31) Terphenyl-d14	19.616	244	9859	0.726	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.104	88	1657	0.933	ng	93
3) n-Nitrosodimethylamine	3.415	42	1478	0.715	ng	# 74
6) bis(2-Chloroethyl)ether	7.004	93	2967	0.932	ng	96
9) Naphthalene	10.394	128	8659	0.783	ng	# 87
10) Hexachlorobutadiene	10.682	225	3472	0.642	ng	# 99
12) 2-Methylnaphthalene	12.016	142	6007	0.772	ng	93
16) Acenaphthylene	13.935	152	9047	0.760	ng	99
17) Acenaphthene	14.277	154	5960	0.755	ng	100
18) Fluorene	15.272	166	8453	0.756	ng	100
20) 4,6-Dinitro-2-methylph...	15.368	198	1108	0.641	ng	# 55
21) 4-Bromophenyl-phenylether	16.165	248	3252	0.697	ng	# 89
22) Hexachlorobenzene	16.276	284	3471	0.713	ng	98
23) Atrazine	16.450	200	2516	0.689	ng	# 82
24) Pentachlorophenol	16.624	266	1797	0.673	ng	96
25) Phenanthrene	17.009	178	13016	0.806	ng	99
26) Anthracene	17.096	178	12050	0.799	ng	99
28) Fluoranthene	19.035	202	17056	0.772	ng	# 99
30) Pyrene	19.398	202	17163	0.754	ng	100
32) Benzo(a)anthracene	21.153	228	15193	0.792	ng	97
33) Chrysene	21.198	228	17610	0.724	ng	98
34) Bis(2-ethylhexyl)phtha...	21.099	149	5787	0.736	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.535	276	22625	0.831	ng	# 91
37) Benzo(b)fluoranthene	22.696	252	17878	0.785	ng	# 87
38) Benzo(k)fluoranthene	22.740	252	18833	0.761	ng	# 86
39) Benzo(a)pyrene	23.257	252	16022	0.769	ng	# 84
40) Dibenzo(a,h)anthracene	25.547	278	17405	0.803	ng	# 77
41) Benzo(g,h,i)perylene	26.202	276	20041	0.801	ng	94

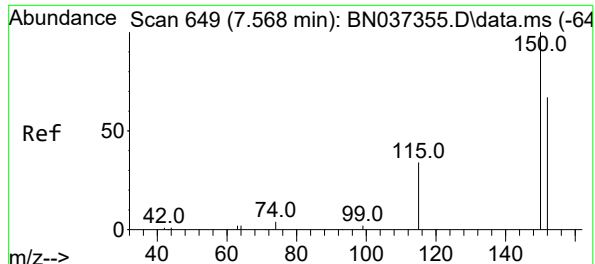
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037356.D
Acq On : 20 Jun 2025 18:39
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Jun 20 23:27:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration

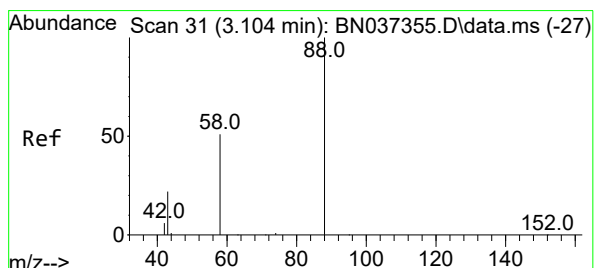
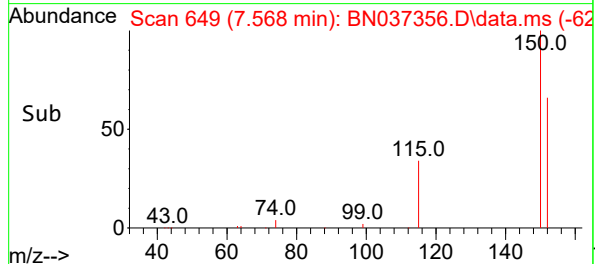
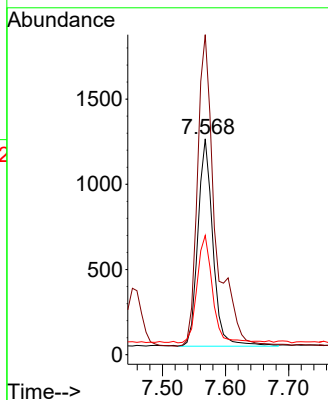
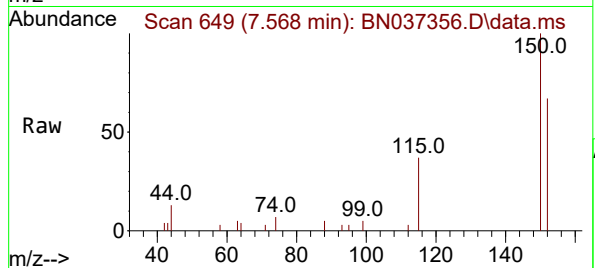




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

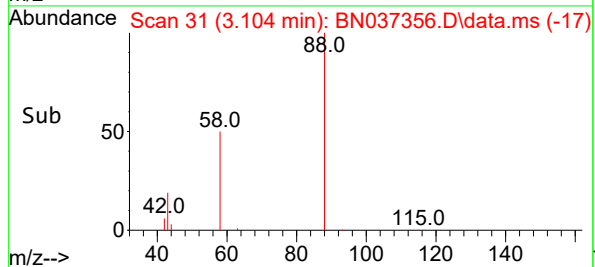
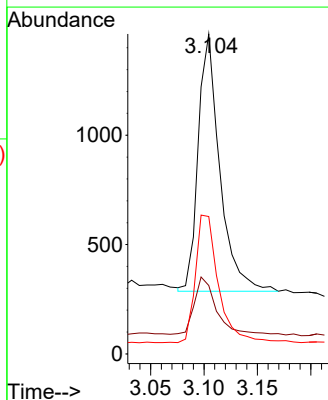
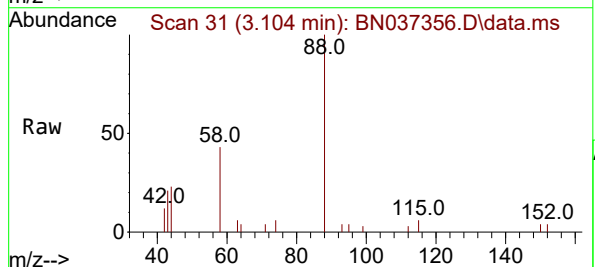
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 2011
Ion Ratio Lower Upper
152 100
150 148.2 112.7 169.1
115 55.2 45.9 68.9

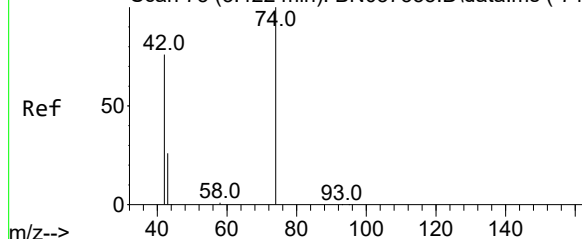


#2
1,4-Dioxane
Concen: 0.933 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

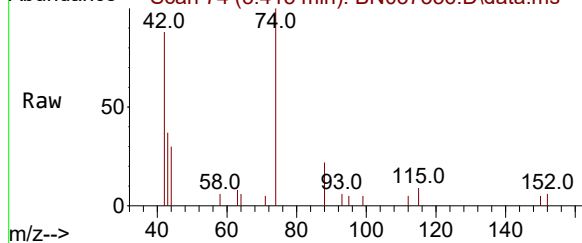
Tgt Ion: 88 Resp: 1657
Ion Ratio Lower Upper
88 100
43 23.4 21.0 31.6
58 52.7 38.0 57.0



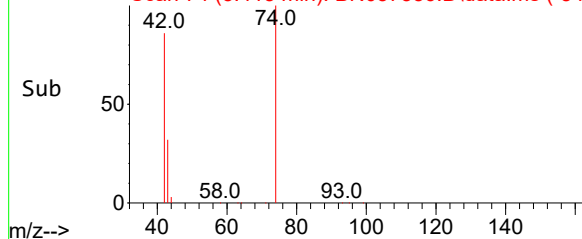
Abundance Scan 75 (3.422 min): BN037355.D\data.ms (-71)



Abundance Scan 74 (3.415 min): BN037356.D\data.ms



Abundance Scan 74 (3.415 min): BN037356.D\data.ms (-54)



#3

n-Nitrosodimethylamine

Concen: 0.715 ng

RT: 3.415 min Scan# 74

Delta R.T. -0.007 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

Tgt Ion: 42 Resp: 1478

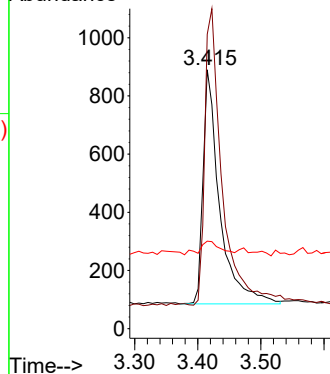
Ion Ratio Lower Upper

42 100

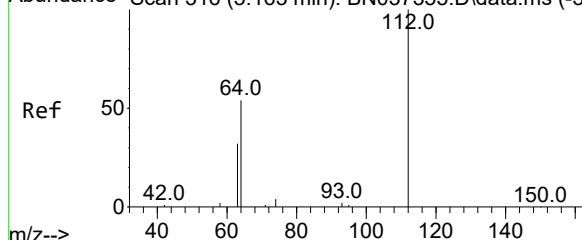
74 133.4 84.3 126.5#

44 7.1 5.0 7.4

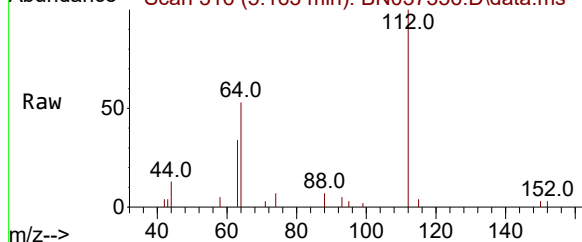
Abundance



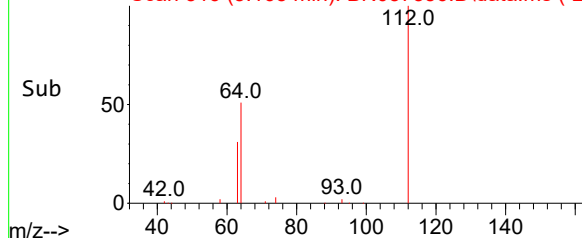
Abundance Scan 316 (5.163 min): BN037355.D\data.ms (-30)



Abundance Scan 316 (5.163 min): BN037356.D\data.ms



Abundance Scan 316 (5.163 min): BN037356.D\data.ms (-28)



#4

2-Fluorophenol

Concen: 0.854 ng

RT: 5.163 min Scan# 316

Delta R.T. -0.000 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

Tgt Ion: 112 Resp: 3141

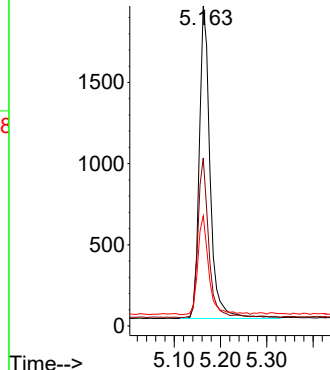
Ion Ratio Lower Upper

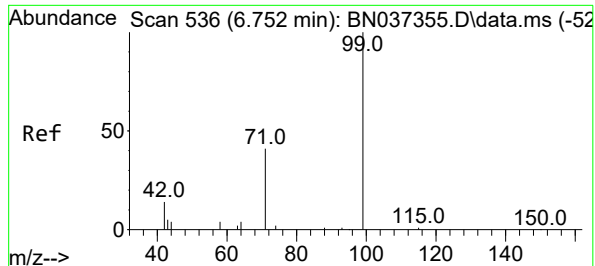
112 100

64 50.2 38.7 58.1

63 31.9 26.4 39.6

Abundance

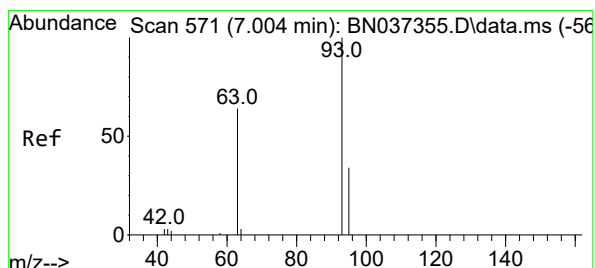
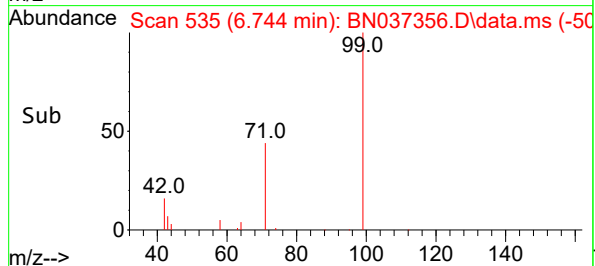
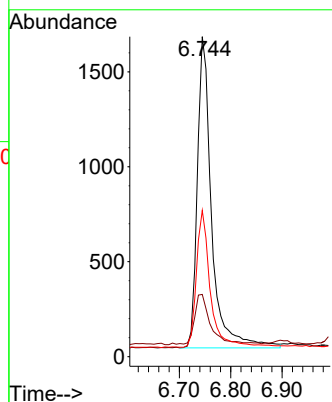
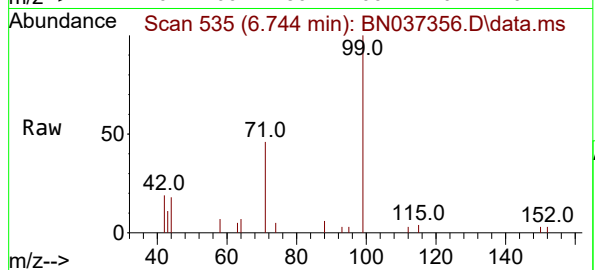




#5
Phenol-d6
Concen: 0.868 ng
RT: 6.744 min Scan# 511
Delta R.T. -0.007 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

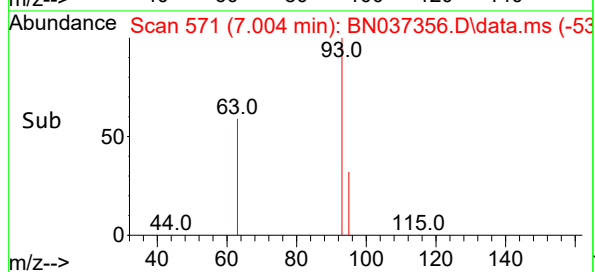
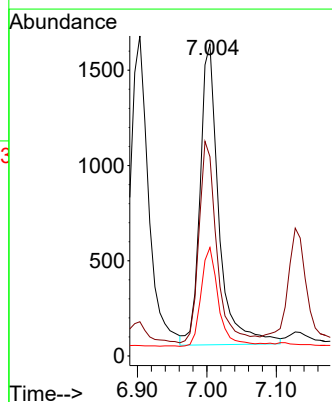
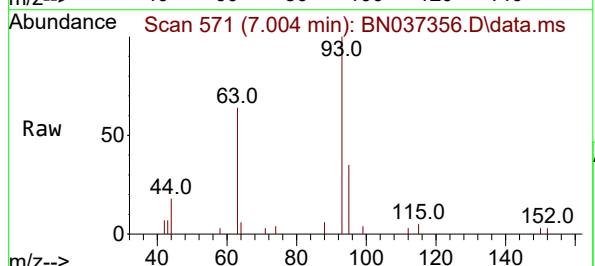
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8

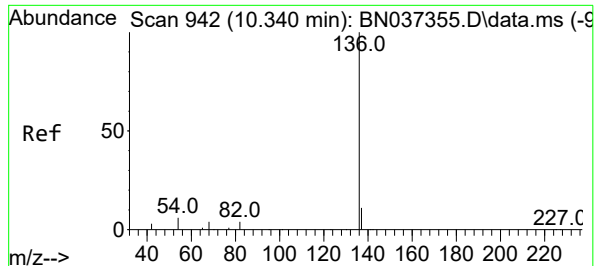
Tgt Ion: 99 Resp: 3157
Ion Ratio Lower Upper
99 100
42 17.5 19.8 29.8#
71 43.4 42.6 64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.932 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion: 93 Resp: 2967
Ion Ratio Lower Upper
93 100
63 64.0 53.2 79.8
95 30.4 27.3 40.9

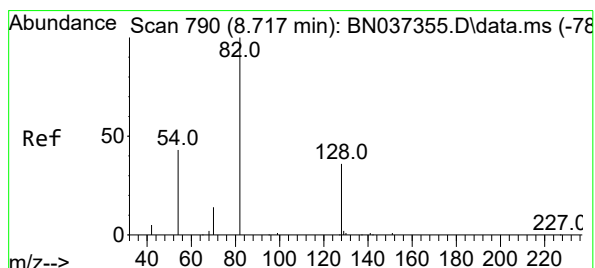
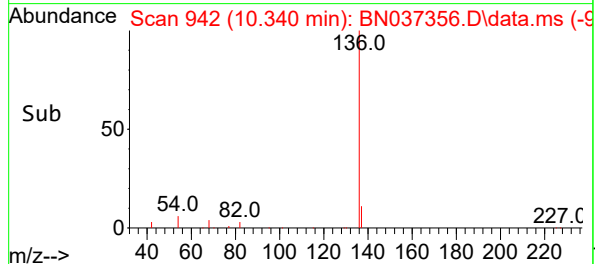
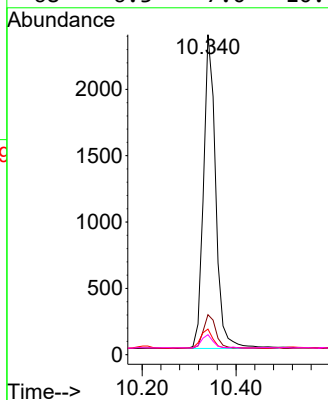
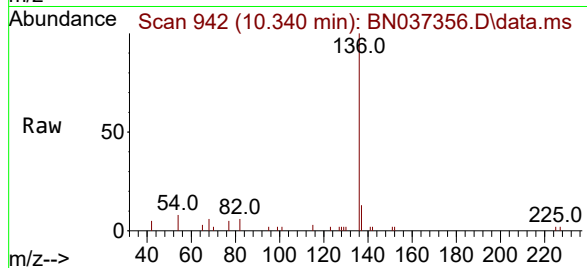




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

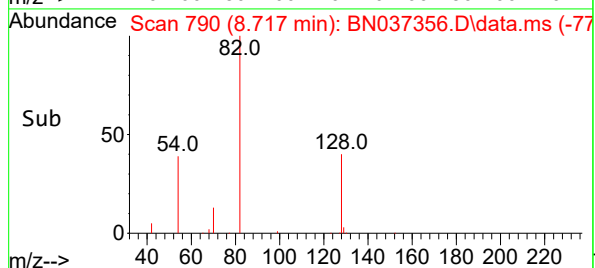
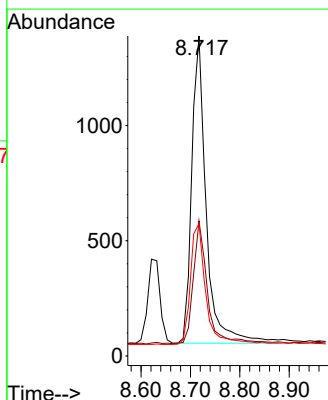
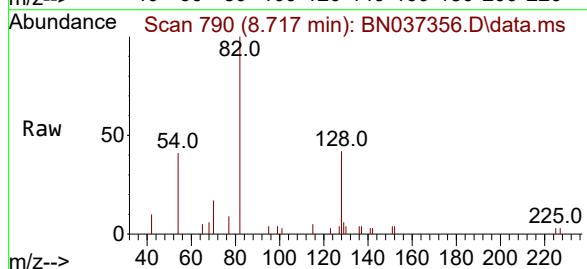
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

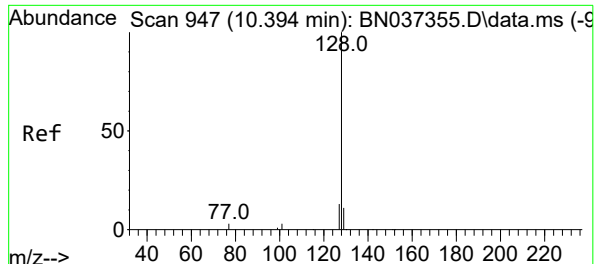
Tgt Ion:136 Resp: 4268
Ion Ratio Lower Upper
136 100
137 12.5 12.2 18.2
54 8.0 8.8 13.2#
68 6.3 7.0 10.4#



#8
Nitrobenzene-d5
Concen: 0.767 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion: 82 Resp: 2717
Ion Ratio Lower Upper
82 100
128 42.2 42.5 63.7#
54 41.4 43.2 64.8#





#9

Naphthalene

Concen: 0.783 ng

RT: 10.394 min Scan# 947

Delta R.T. -0.000 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

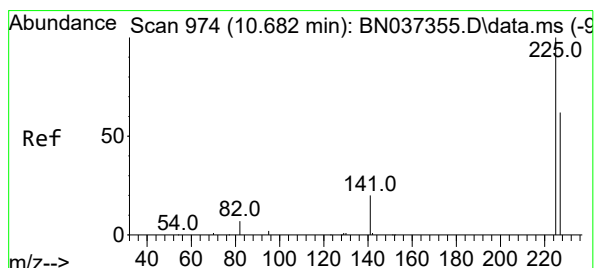
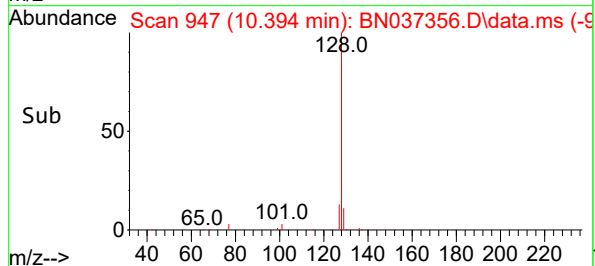
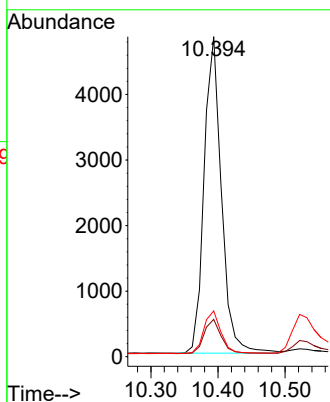
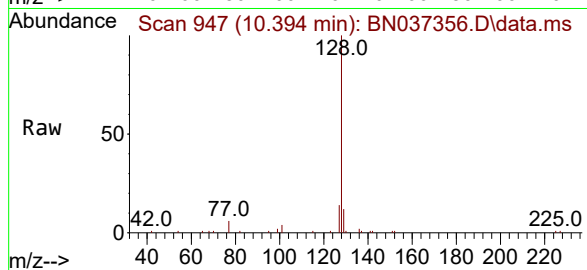
Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

Tgt Ion:	128	Resp:	8659
Ion	Ratio	Lower	Upper
128	100		
129	11.7	14.0	21.0#
127	14.3	15.8	23.8#



#10

Hexachlorobutadiene

Concen: 0.642 ng

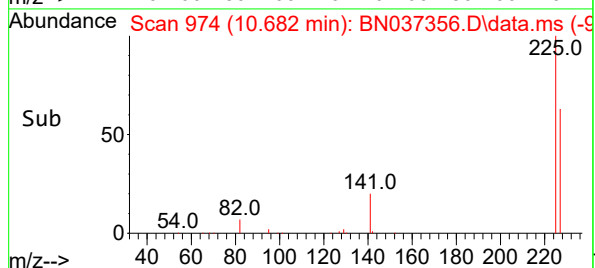
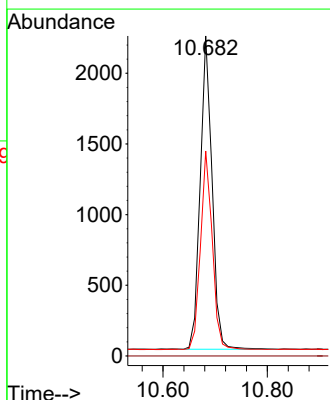
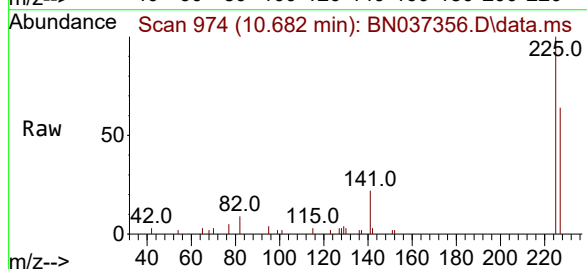
RT: 10.682 min Scan# 974

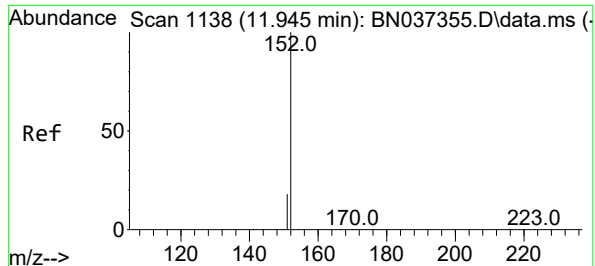
Delta R.T. -0.000 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

Tgt Ion:	225	Resp:	3472
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	50.3	75.5

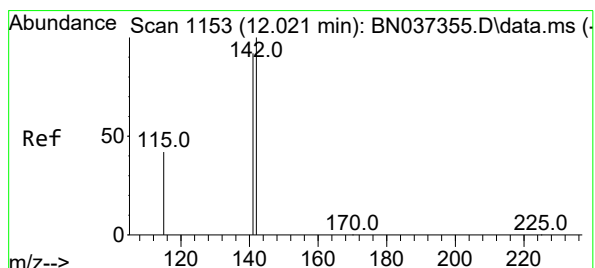
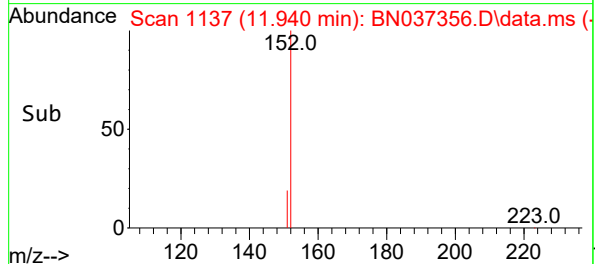
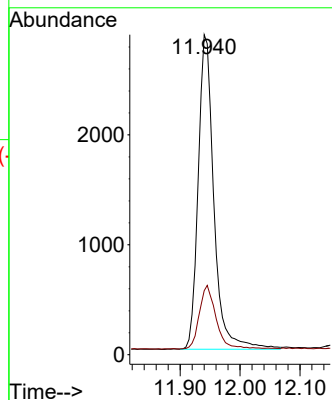
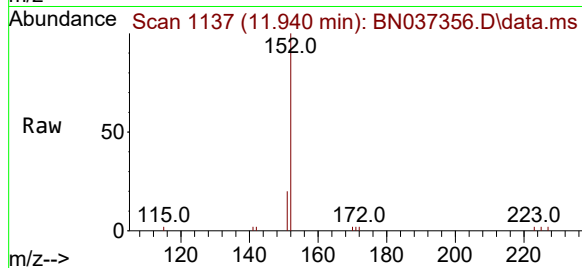




#11
2-Methylnaphthalene-d10
Concen: 0.754 ng
RT: 11.940 min Scan# 1137
Delta R.T. -0.005 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

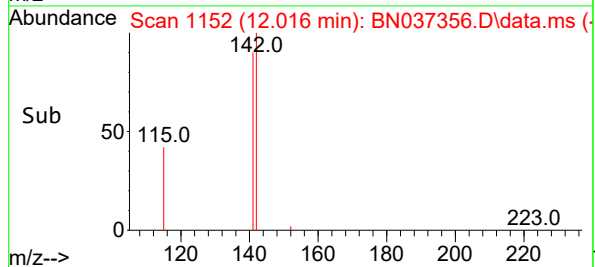
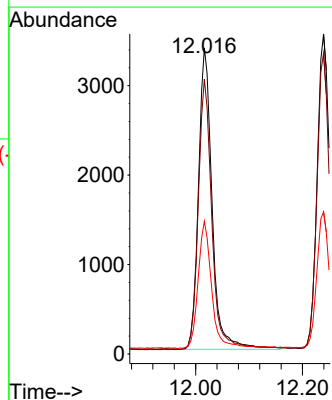
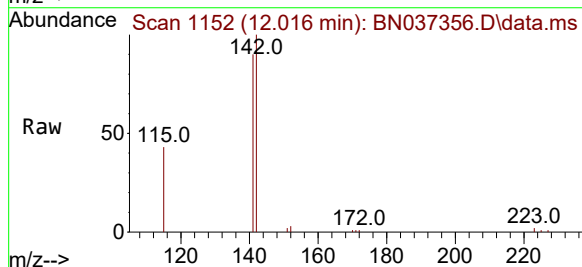
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

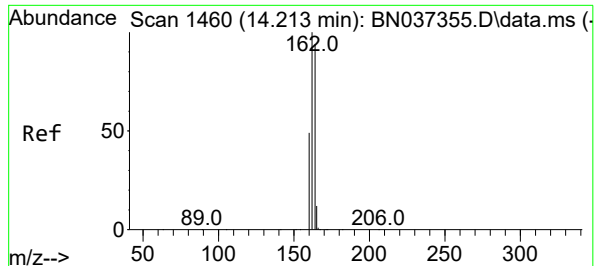
Tgt Ion:152 Resp: 5209
Ion Ratio Lower Upper
152 100
151 21.4 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.772 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:142 Resp: 6007
Ion Ratio Lower Upper
142 100
141 89.7 70.2 105.2
115 43.4 43.0 64.4

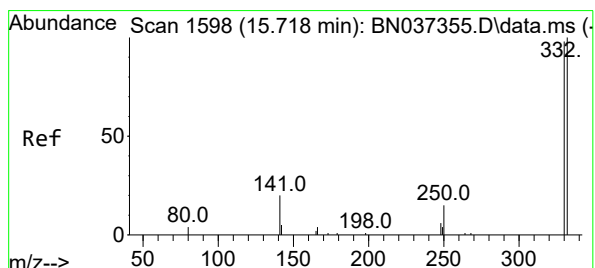
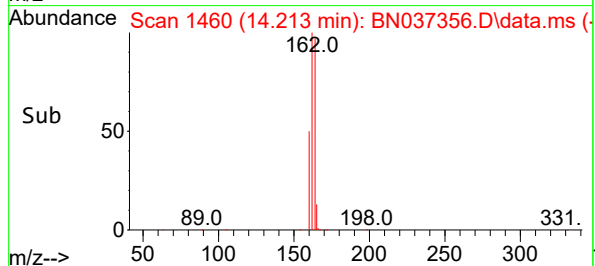
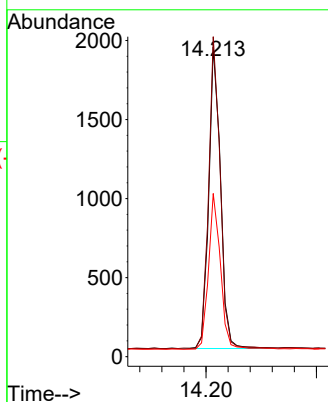
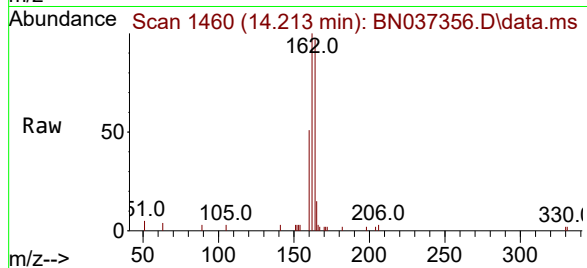




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

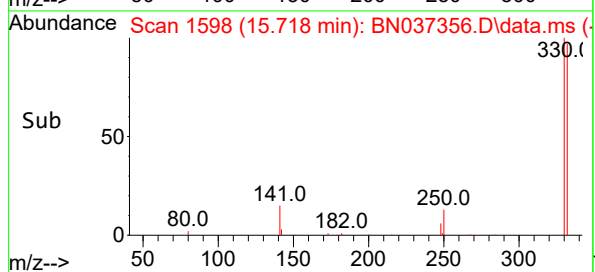
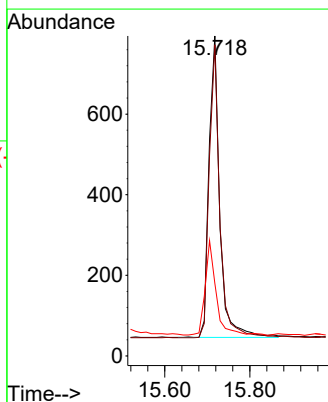
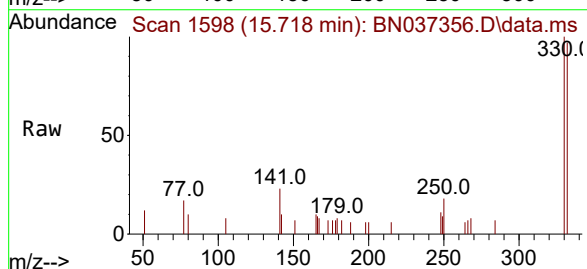
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

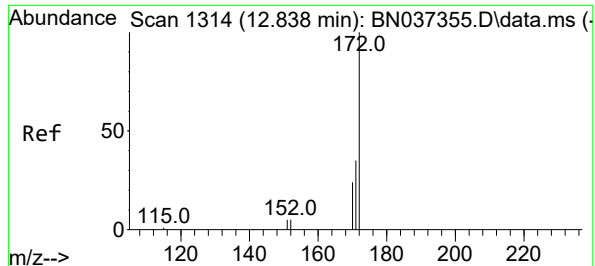
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.4	81.5	122.3
160	52.7	43.0	64.4



#14
2,4,6-Tribromophenol
Concen: 0.646 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.4	117.6
141	32.2	24.4	36.6





#15

2-Fluorobiphenyl

Concen: 0.781 ng

RT: 12.838 min Scan# 1314

Delta R.T. -0.000 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

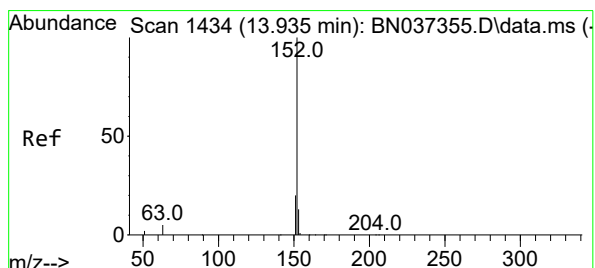
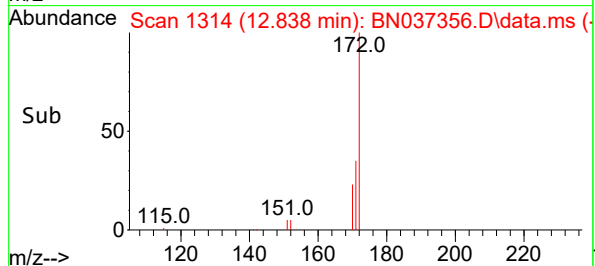
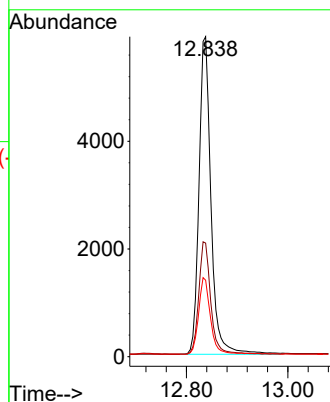
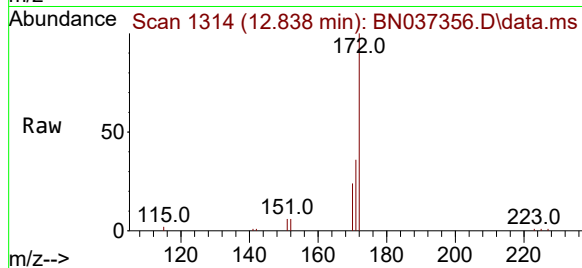
Tgt Ion:172 Resp: 9720

Ion Ratio Lower Upper

172 100

171 35.5 30.8 46.2

170 23.9 21.9 32.9



#16

Acenaphthylene

Concen: 0.760 ng

RT: 13.935 min Scan# 1434

Delta R.T. 0.000 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

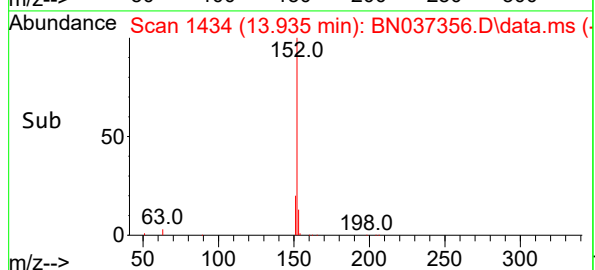
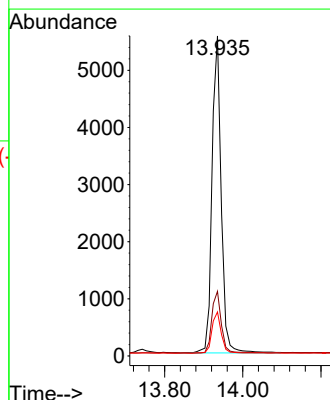
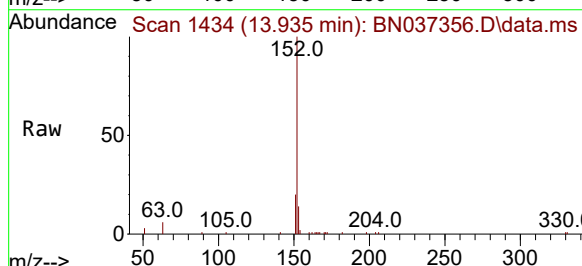
Tgt Ion:152 Resp: 9047

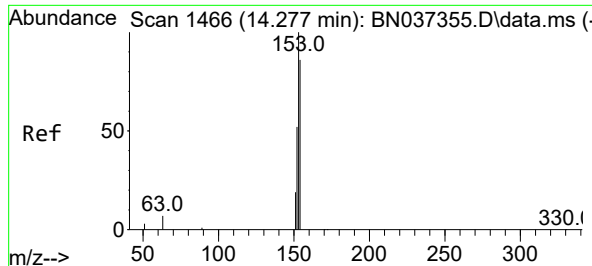
Ion Ratio Lower Upper

152 100

151 20.1 16.6 24.8

153 13.4 10.2 15.2





#17

Acenaphthene

Concen: 0.755 ng

RT: 14.277 min Scan# 1466

Delta R.T. -0.000 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

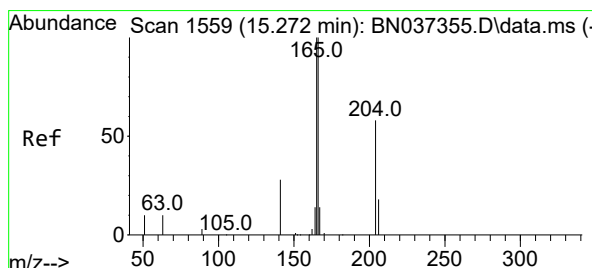
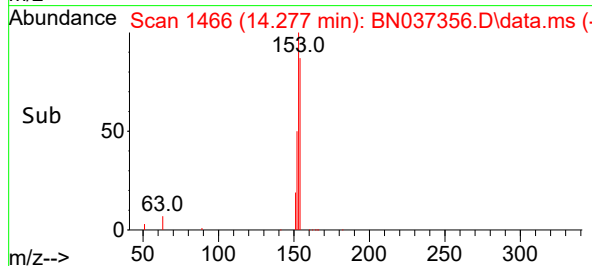
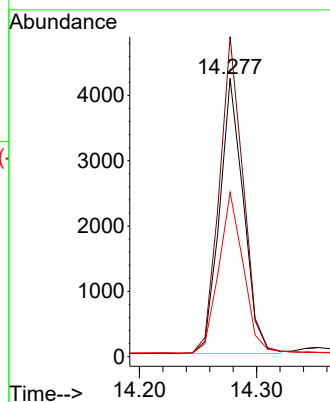
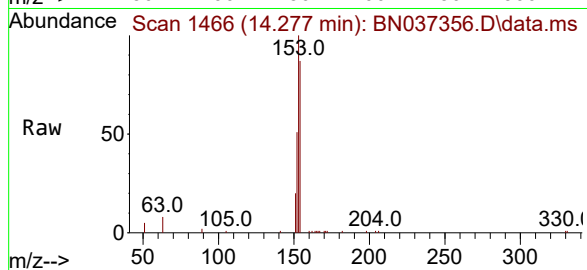
Tgt Ion:154 Resp: 5960

Ion Ratio Lower Upper

154 100

153 116.3 93.1 139.7

152 60.6 48.6 73.0



#18

Fluorene

Concen: 0.756 ng

RT: 15.272 min Scan# 1559

Delta R.T. 0.000 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

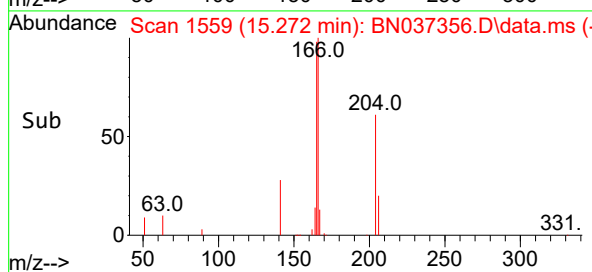
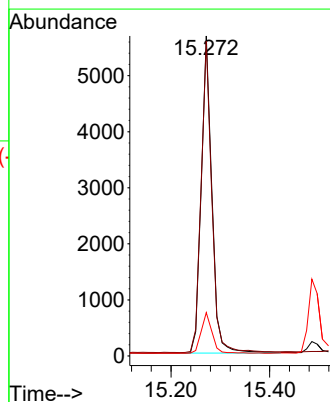
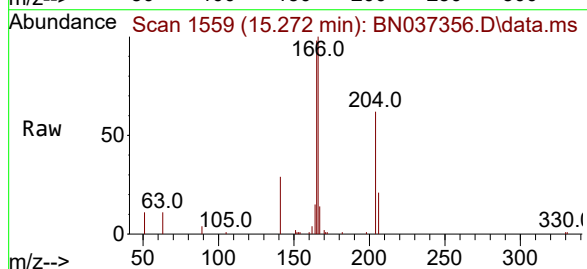
Tgt Ion:166 Resp: 8453

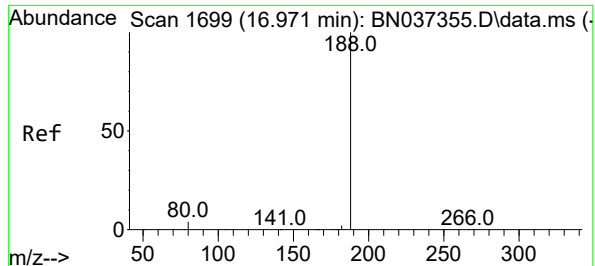
Ion Ratio Lower Upper

166 100

165 99.0 79.5 119.3

167 13.3 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

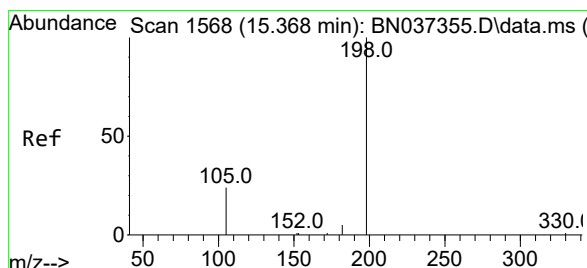
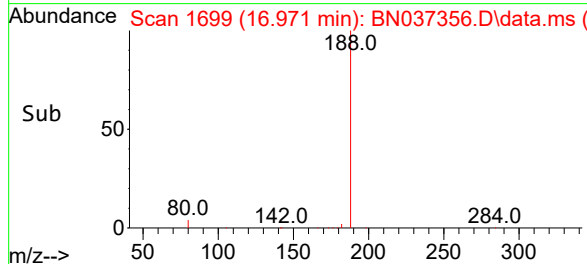
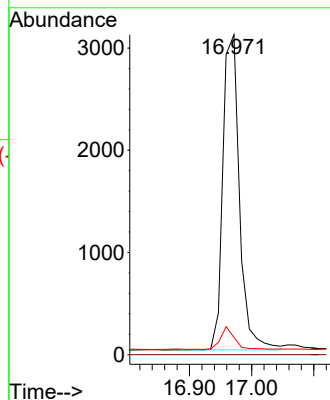
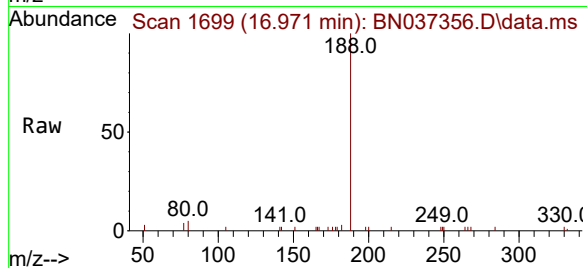
Tgt Ion:188 Resp: 5716

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.5 6.2 9.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.641 ng

RT: 15.368 min Scan# 1568

Delta R.T. 0.000 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

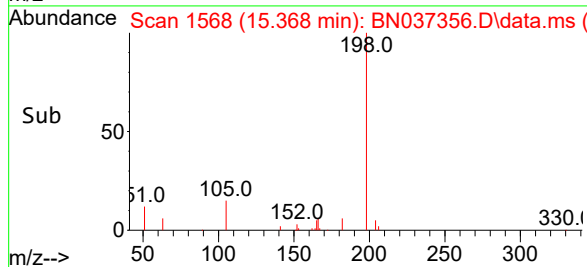
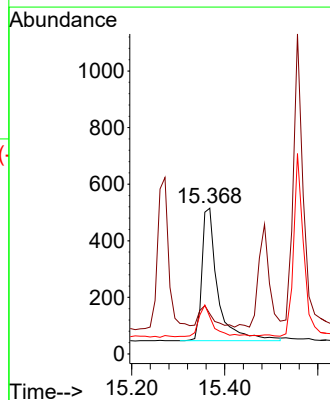
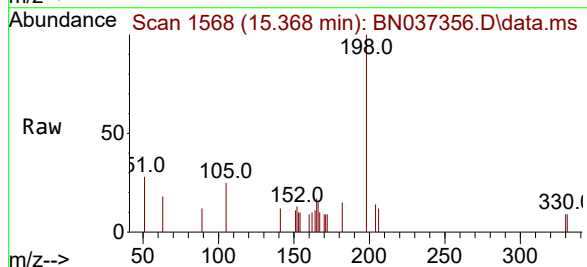
Tgt Ion:198 Resp: 1108

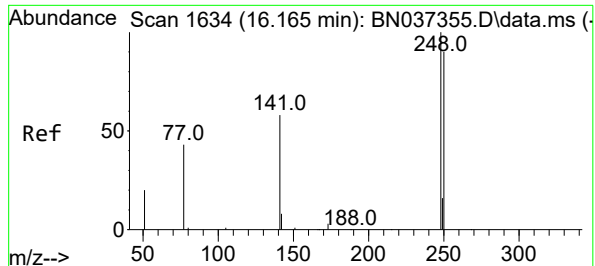
Ion Ratio Lower Upper

198 100

51 27.6 51.4 77.0#

105 25.4 45.5 68.3#

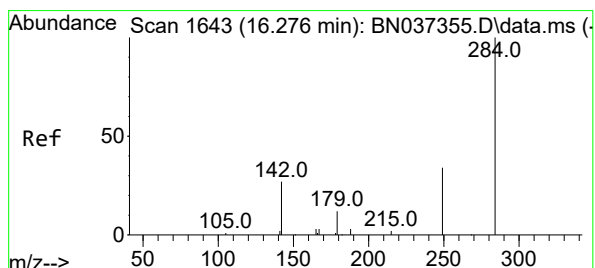
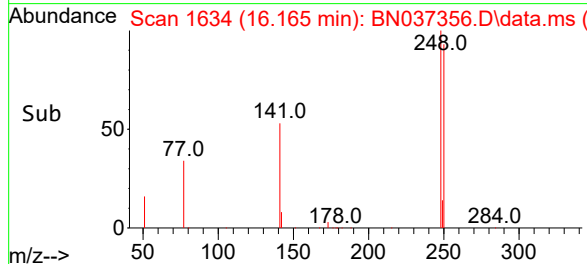
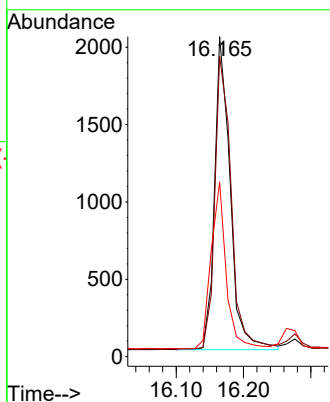
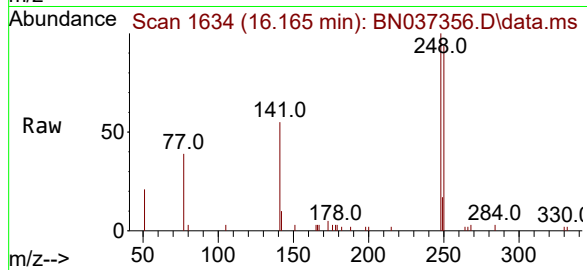




#21
4-Bromophenyl-phenylether
Concen: 0.697 ng
RT: 16.165 min Scan# 1634
Delta R.T. 0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

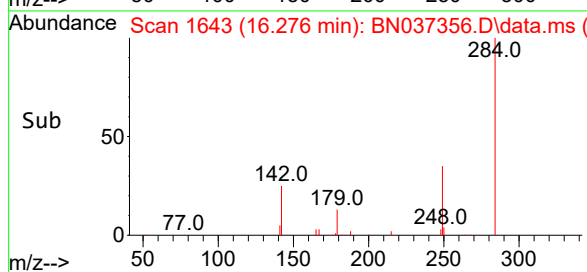
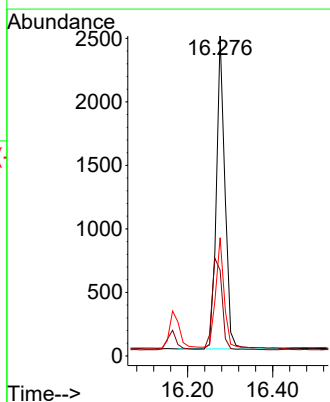
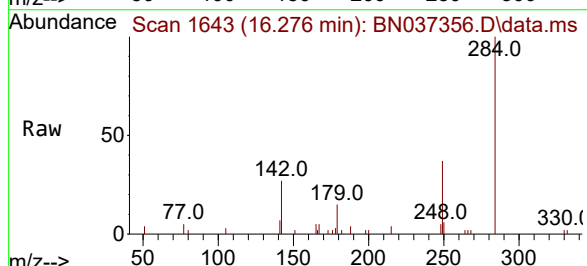
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

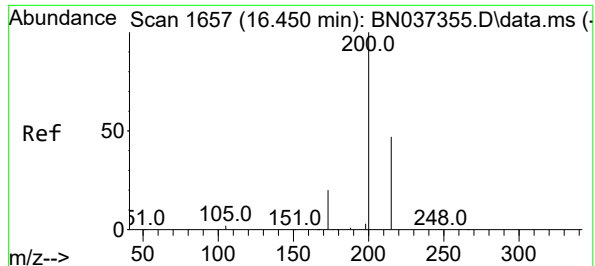
Tgt Ion	Ratio	Lower	Upper
248	100		
250	93.9	80.4	120.6
141	54.6	33.3	49.9



#22
Hexachlorobenzene
Concen: 0.713 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion	Ratio	Lower	Upper
284	100		
142	33.9	27.0	40.6
249	34.1	28.8	43.2





#23

Atrazine

Concen: 0.689 ng

RT: 16.450 min Scan# 1657

Delta R.T. 0.000 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

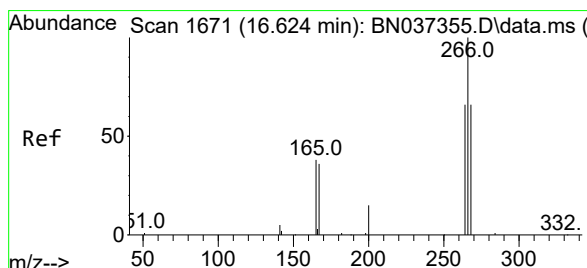
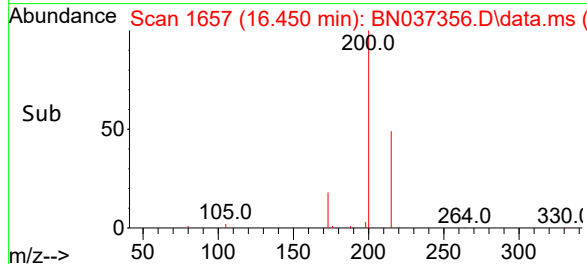
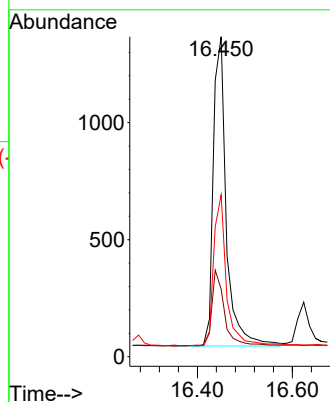
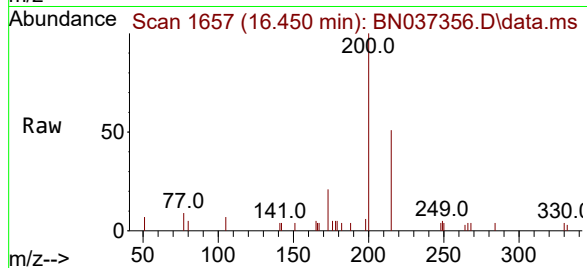
Tgt Ion:200 Resp: 2516

Ion Ratio Lower Upper

200 100

173 21.1 29.2 43.8#

215 50.6 48.8 73.2



#24

Pentachlorophenol

Concen: 0.673 ng

RT: 16.624 min Scan# 1671

Delta R.T. -0.000 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

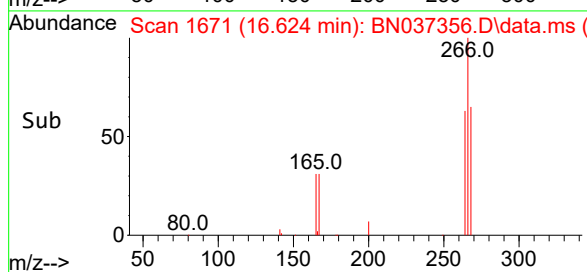
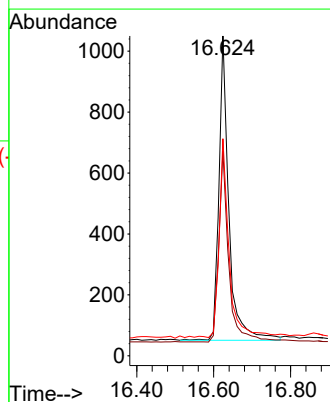
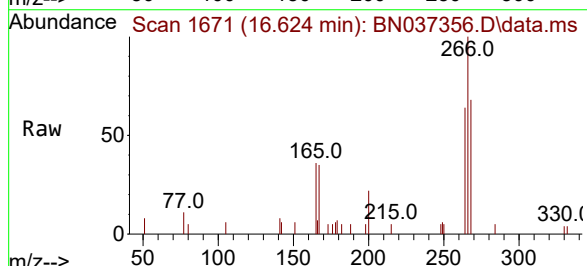
Tgt Ion:266 Resp: 1797

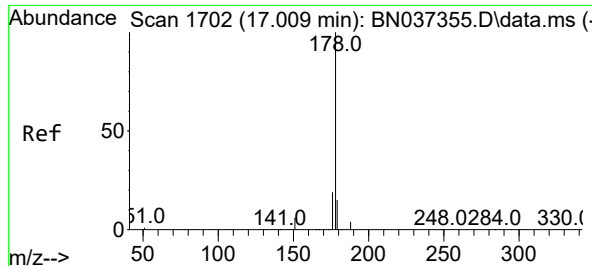
Ion Ratio Lower Upper

266 100

264 61.8 50.3 75.5

268 63.2 55.3 82.9

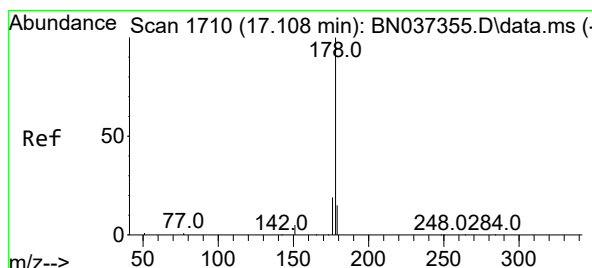
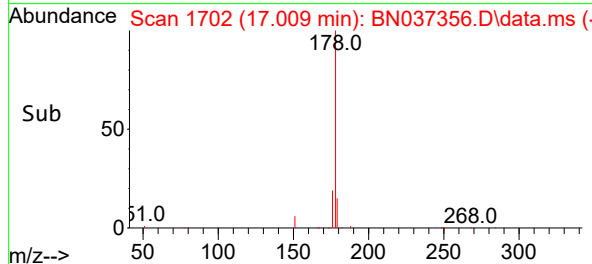
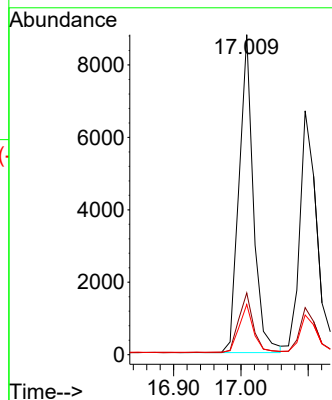
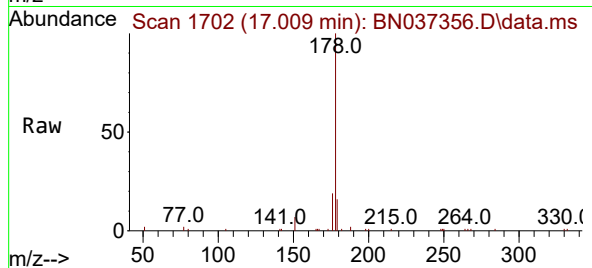




#25
Phenanthrene
Concen: 0.806 ng
RT: 17.009 min Scan# 1709
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

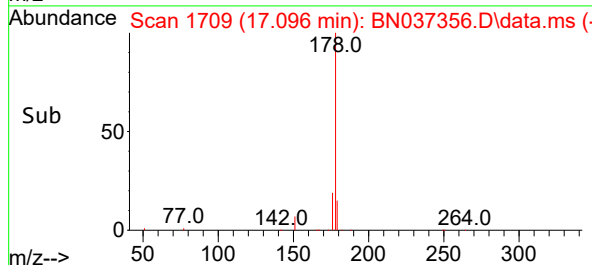
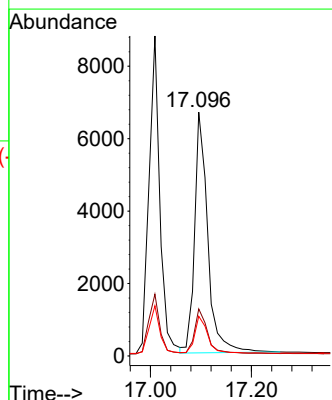
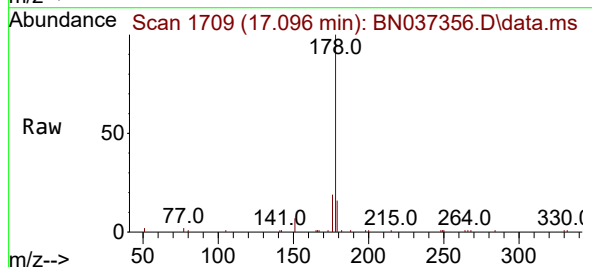
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

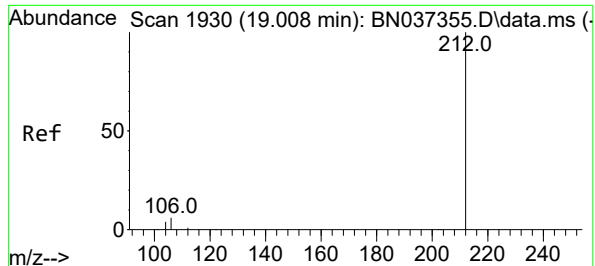
Tgt Ion:178 Resp: 13016
Ion Ratio Lower Upper
178 100
176 19.1 15.2 22.8
179 15.2 12.9 19.3



#26
Anthracene
Concen: 0.799 ng
RT: 17.096 min Scan# 1709
Delta R.T. -0.012 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:178 Resp: 12050
Ion Ratio Lower Upper
178 100
176 18.6 14.7 22.1
179 15.6 13.0 19.6





#27

Fluoranthene-d10

Concen: 0.749 ng

RT: 19.003 min Scan# 1929

Delta R.T. -0.005 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

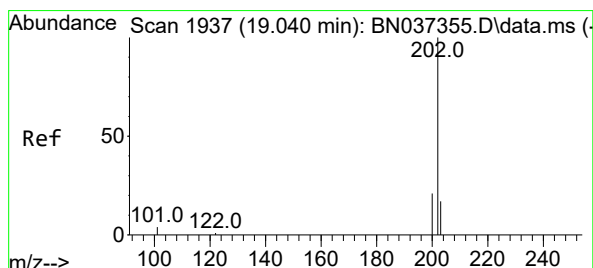
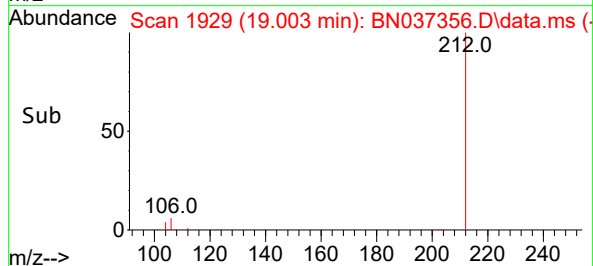
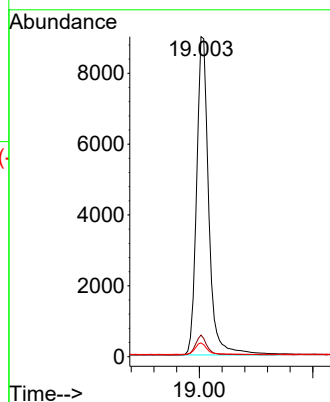
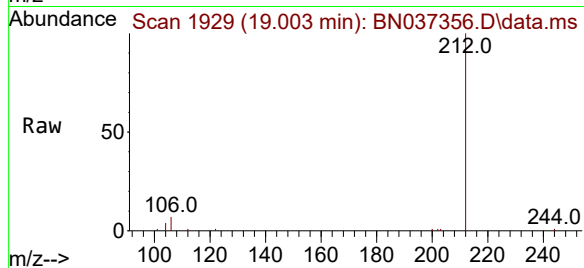
Tgt Ion:212 Resp: 13334

Ion Ratio Lower Upper

212 100

106 5.9 3.0 4.4#

104 3.6 2.0 3.0#



#28

Fluoranthene

Concen: 0.772 ng

RT: 19.035 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

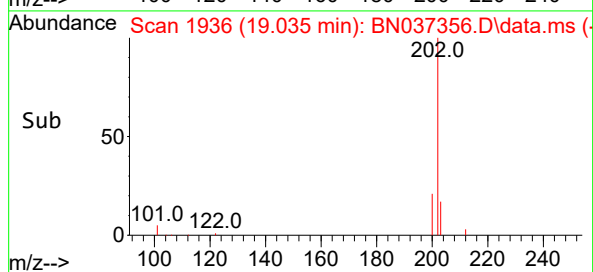
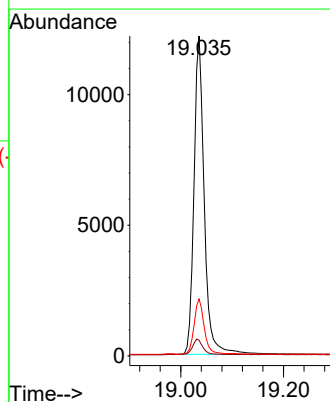
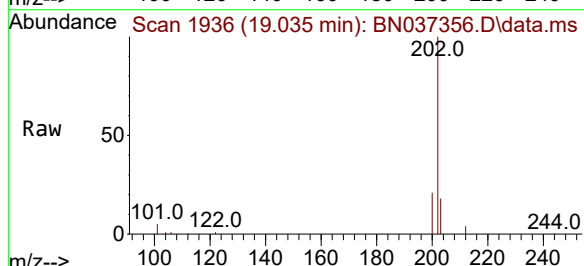
Tgt Ion:202 Resp: 17056

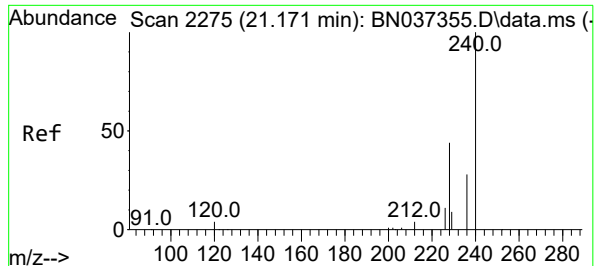
Ion Ratio Lower Upper

202 100

101 5.1 3.0 4.6#

203 16.9 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

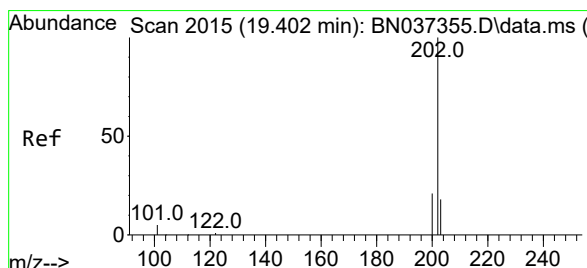
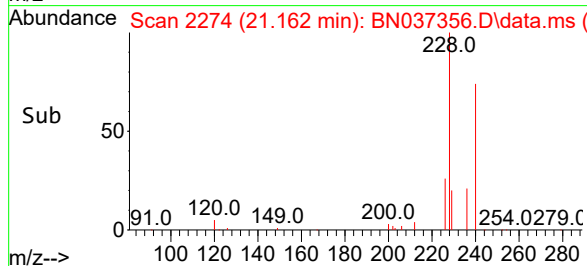
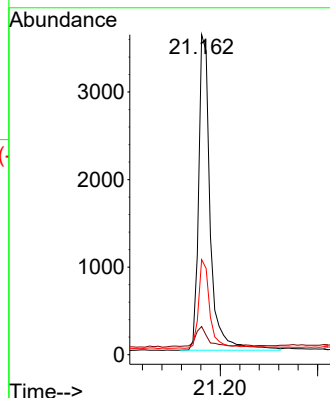
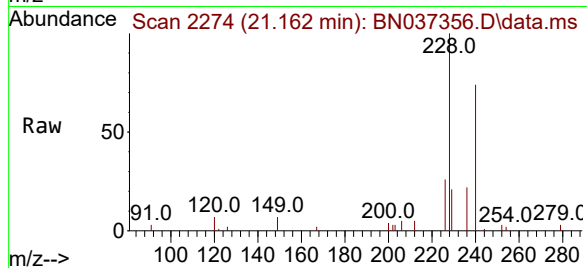
Tgt Ion:240 Resp: 5944

Ion Ratio Lower Upper

240 100

120 8.8 7.5 11.3

236 29.7 24.9 37.3



#30

Pyrene

Concen: 0.754 ng

RT: 19.398 min Scan# 2014

Delta R.T. -0.005 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

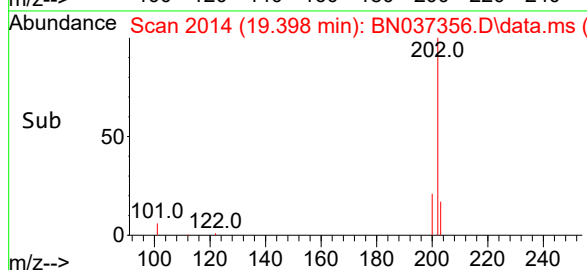
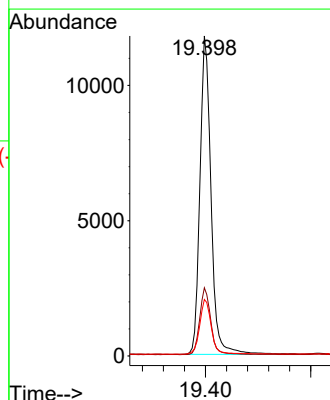
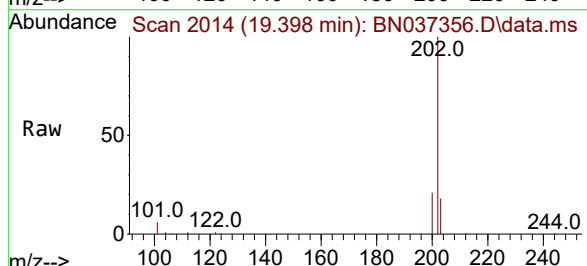
Tgt Ion:202 Resp: 17163

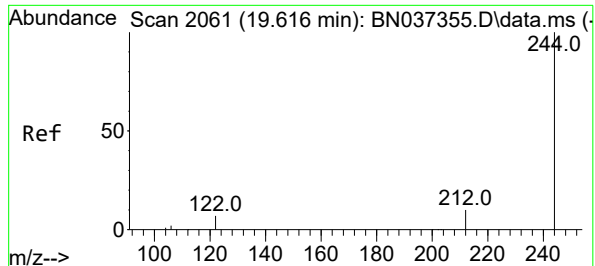
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 17.8 14.5 21.7

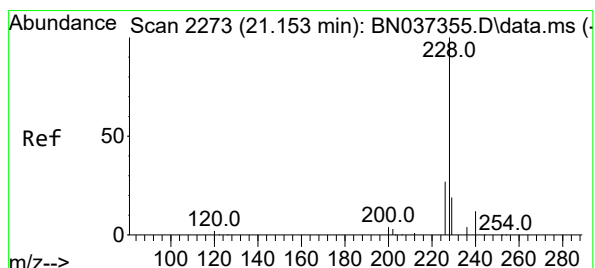
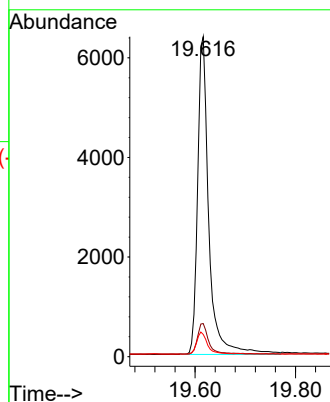
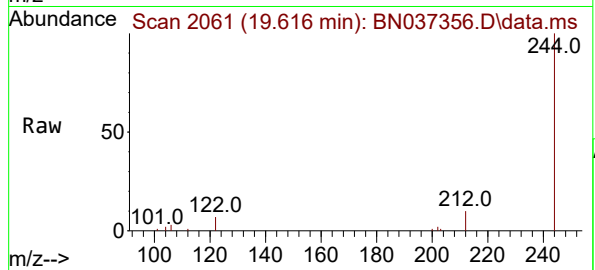




#31
Terphenyl-d14
Concen: 0.726 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

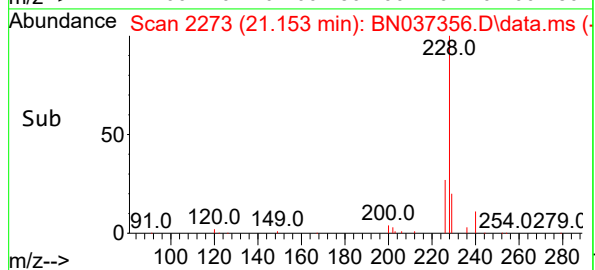
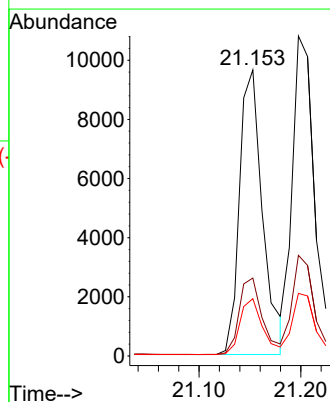
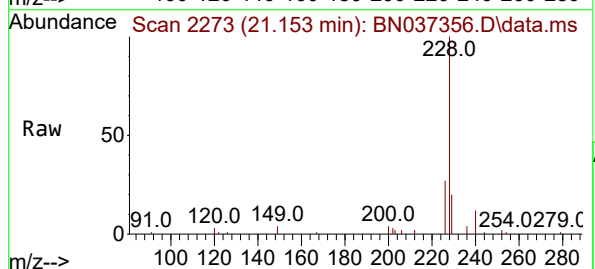
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

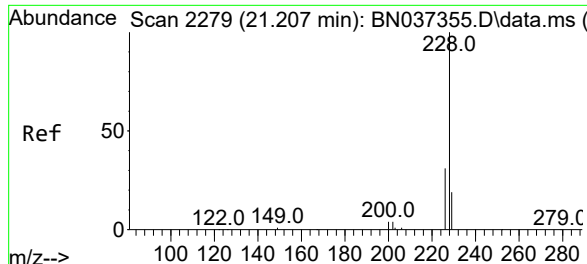
Tgt Ion:244 Resp: 9859
Ion Ratio Lower Upper
244 100
212 10.4 11.1 16.7#
122 6.9 7.2 10.8#



#32
Benzo(a)anthracene
Concen: 0.792 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.000 min
Lab File: BN037356.D
Acq: 20 Jun 2025 18:39

Tgt Ion:228 Resp: 15193
Ion Ratio Lower Upper
228 100
226 27.3 23.0 34.4
229 20.0 17.4 26.0





#33

Chrysene

Concen: 0.724 ng

RT: 21.198 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

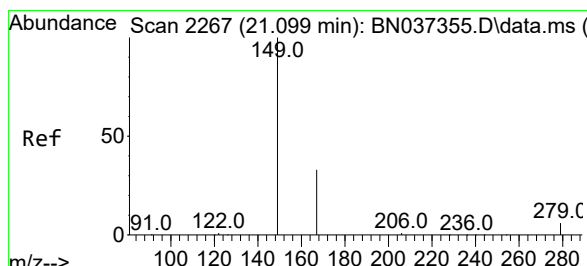
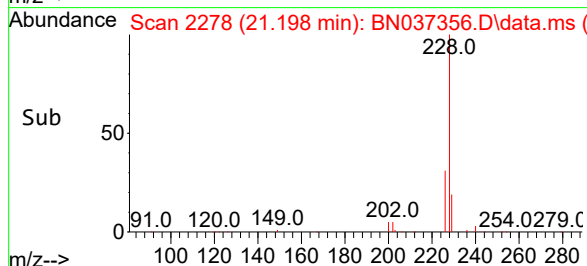
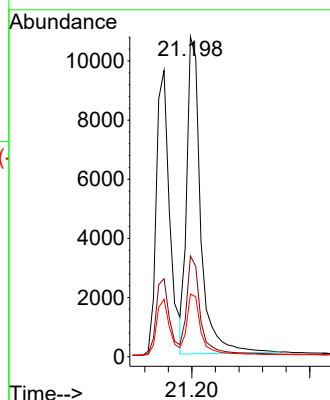
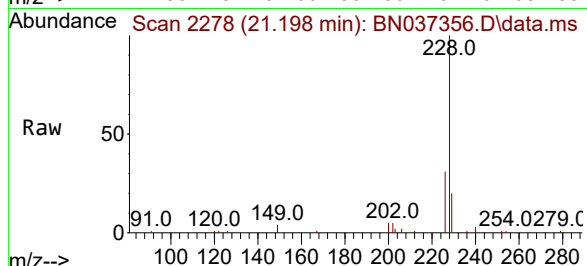
Tgt Ion:228 Resp: 17610

Ion Ratio Lower Upper

228 100

226 31.4 25.4 38.2

229 19.5 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.736 ng

RT: 21.099 min Scan# 2267

Delta R.T. 0.000 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

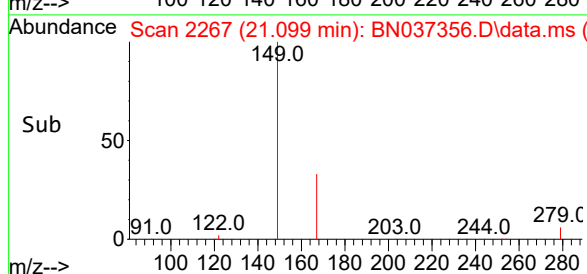
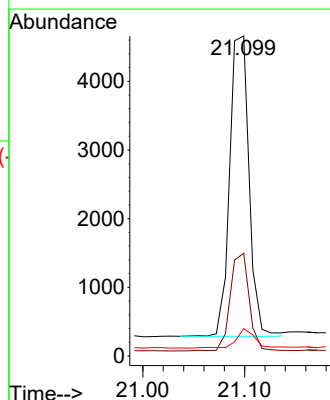
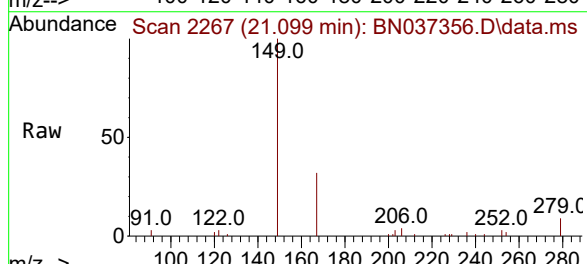
Tgt Ion:149 Resp: 5787

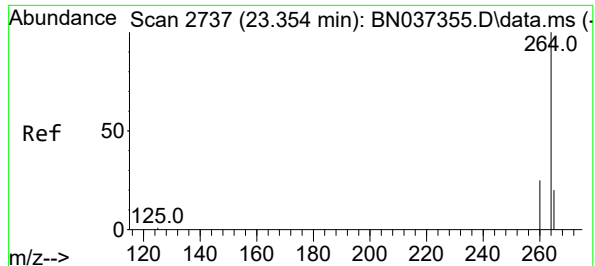
Ion Ratio Lower Upper

149 100

167 31.8 24.6 37.0

279 6.2 6.5 9.7#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.351 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

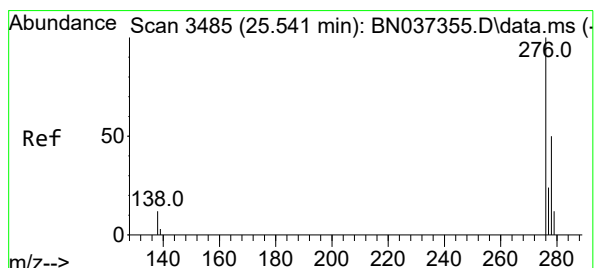
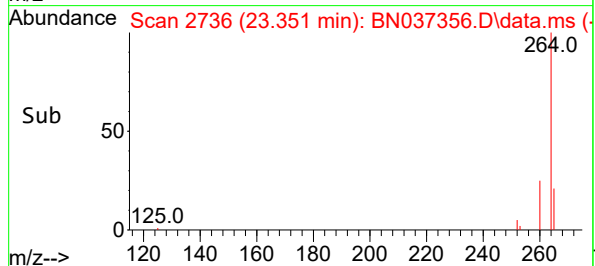
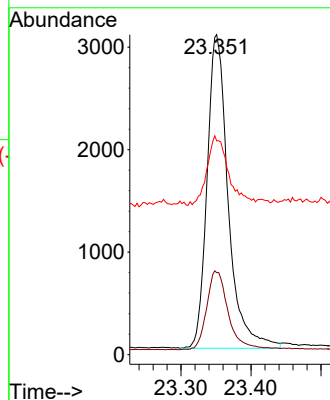
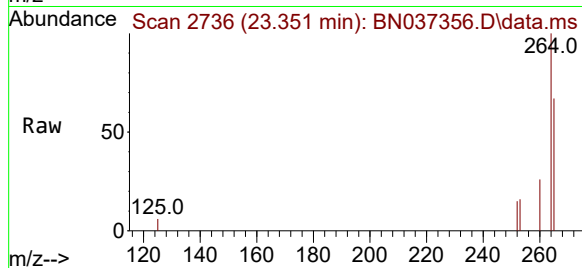
Tgt Ion:264 Resp: 6423

Ion Ratio Lower Upper

264 100

260 25.7 21.4 32.2

265 66.8 71.4 107.0#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.831 ng

RT: 25.535 min Scan# 3483

Delta R.T. -0.006 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

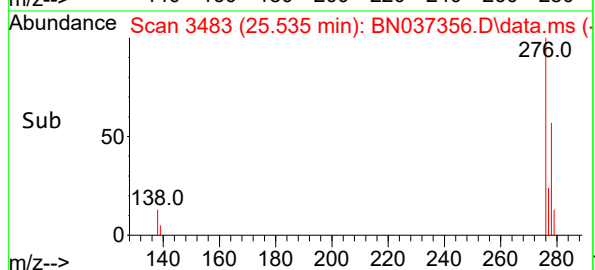
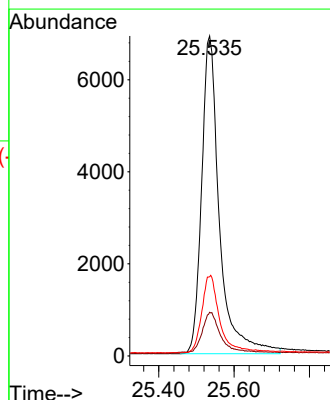
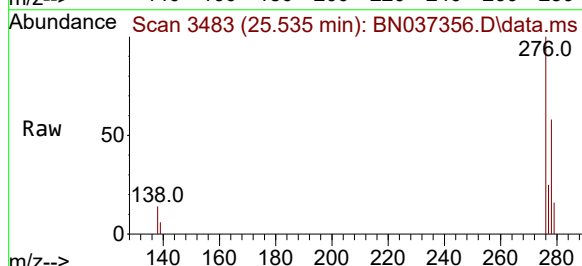
Tgt Ion:276 Resp: 22625

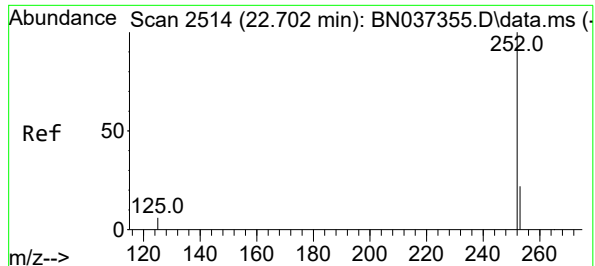
Ion Ratio Lower Upper

276 100

138 12.3 2.2 3.2#

277 24.3 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 0.785 ng

RT: 22.696 min Scan# 2512

Delta R.T. -0.006 min

Lab File: BN037356.D

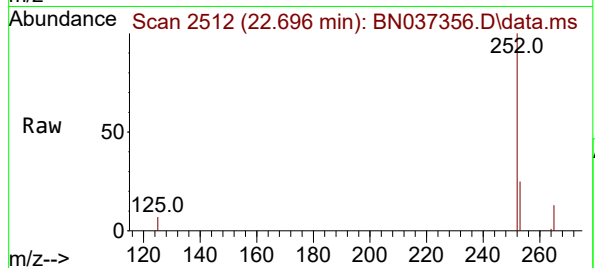
Acq: 20 Jun 2025 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



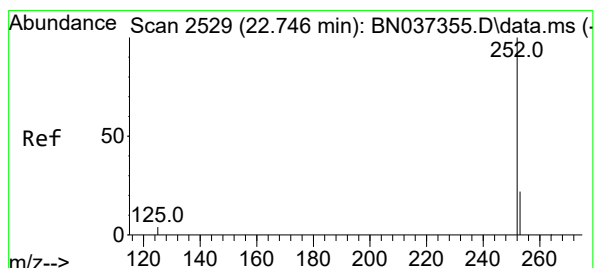
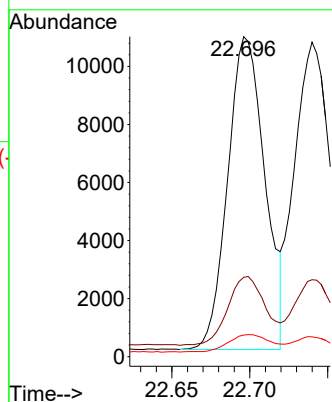
Tgt Ion:252 Resp: 17878

Ion Ratio Lower Upper

252 100

253 24.8 26.6 40.0#

125 6.7 6.1 9.1



#38

Benzo(k)fluoranthene

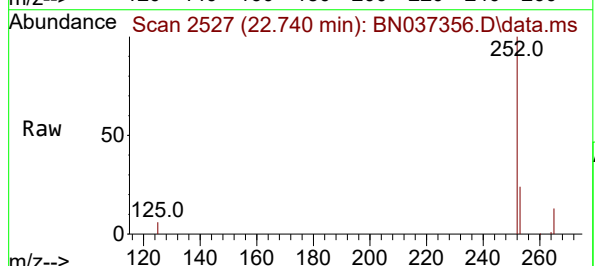
Concen: 0.761 ng

RT: 22.740 min Scan# 2527

Delta R.T. -0.006 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39



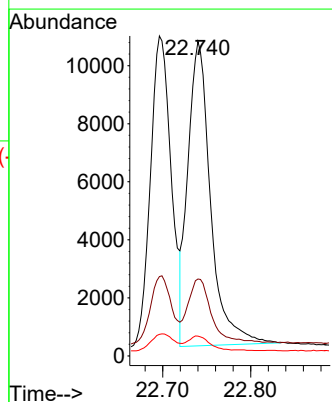
Tgt Ion:252 Resp: 18833

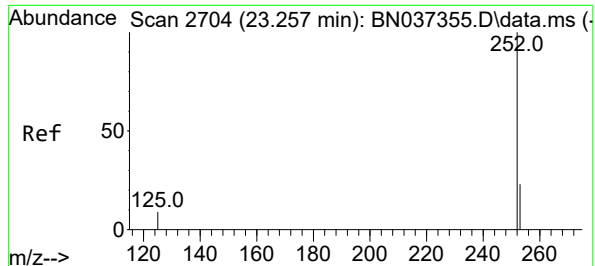
Ion Ratio Lower Upper

252 100

253 24.4 26.7 40.1#

125 6.3 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 0.769 ng

RT: 23.257 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

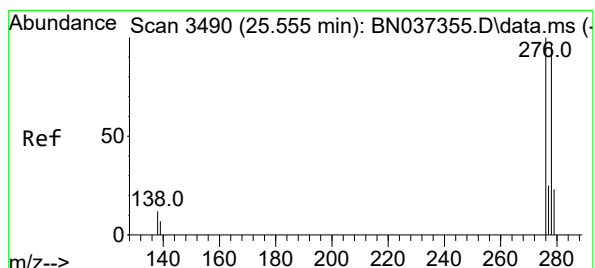
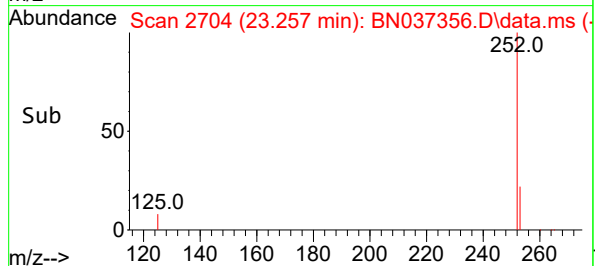
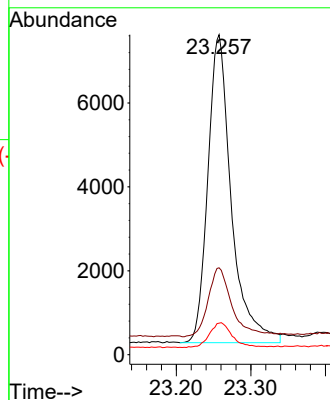
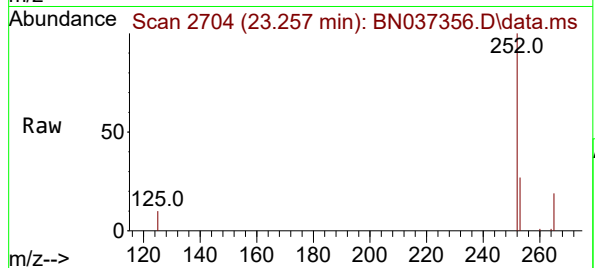
Tgt Ion:252 Resp: 16022

Ion Ratio Lower Upper

252 100

253 27.1 31.6 47.4#

125 9.9 8.4 12.6



#40

Dibenzo(a,h)anthracene

Concen: 0.803 ng

RT: 25.547 min Scan# 3487

Delta R.T. -0.009 min

Lab File: BN037356.D

Acq: 20 Jun 2025 18:39

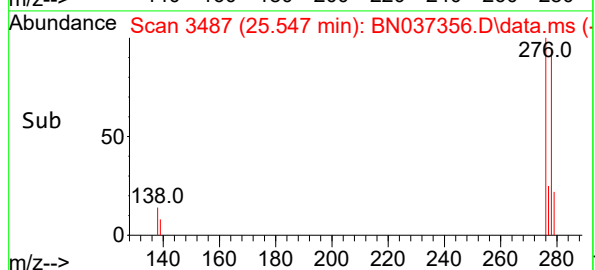
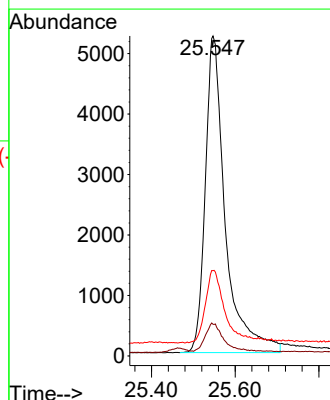
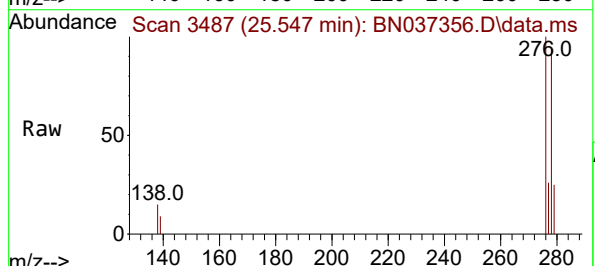
Tgt Ion:278 Resp: 17405

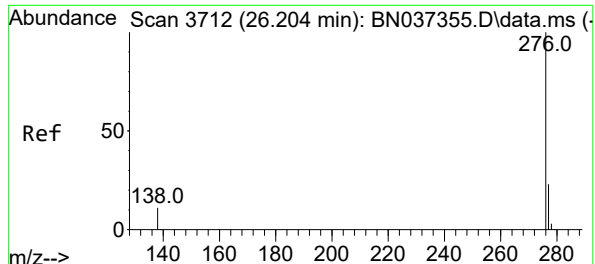
Ion Ratio Lower Upper

278 100

139 9.9 10.2 15.4#

279 26.7 35.6 53.4#





#41

Benzo(g,h,i)perylene

Concen: 0.801 ng

RT: 26.202 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037356.D

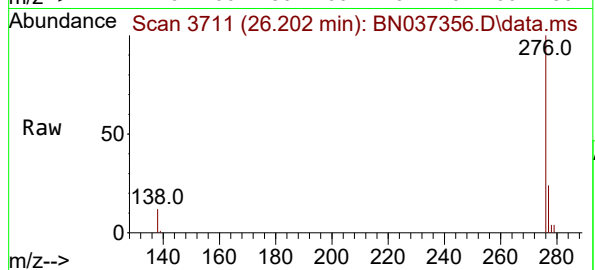
Acq: 20 Jun 2025 18:39

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



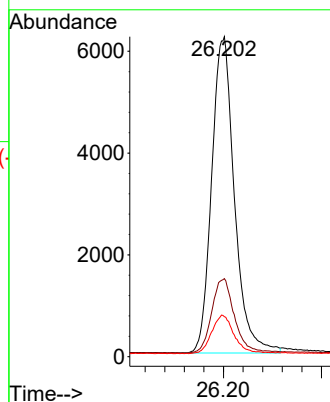
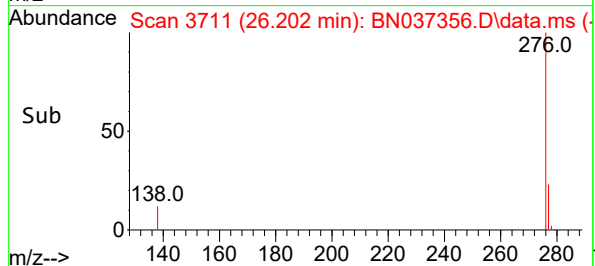
Tgt Ion:276 Resp: 20041

Ion Ratio Lower Upper

276 100

277 24.4 22.7 34.1

138 12.5 9.4 14.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037357.D
 Acq On : 20 Jun 2025 19:15
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Jun 20 23:27:39 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:25:11 2025
 Response via : Initial Calibration

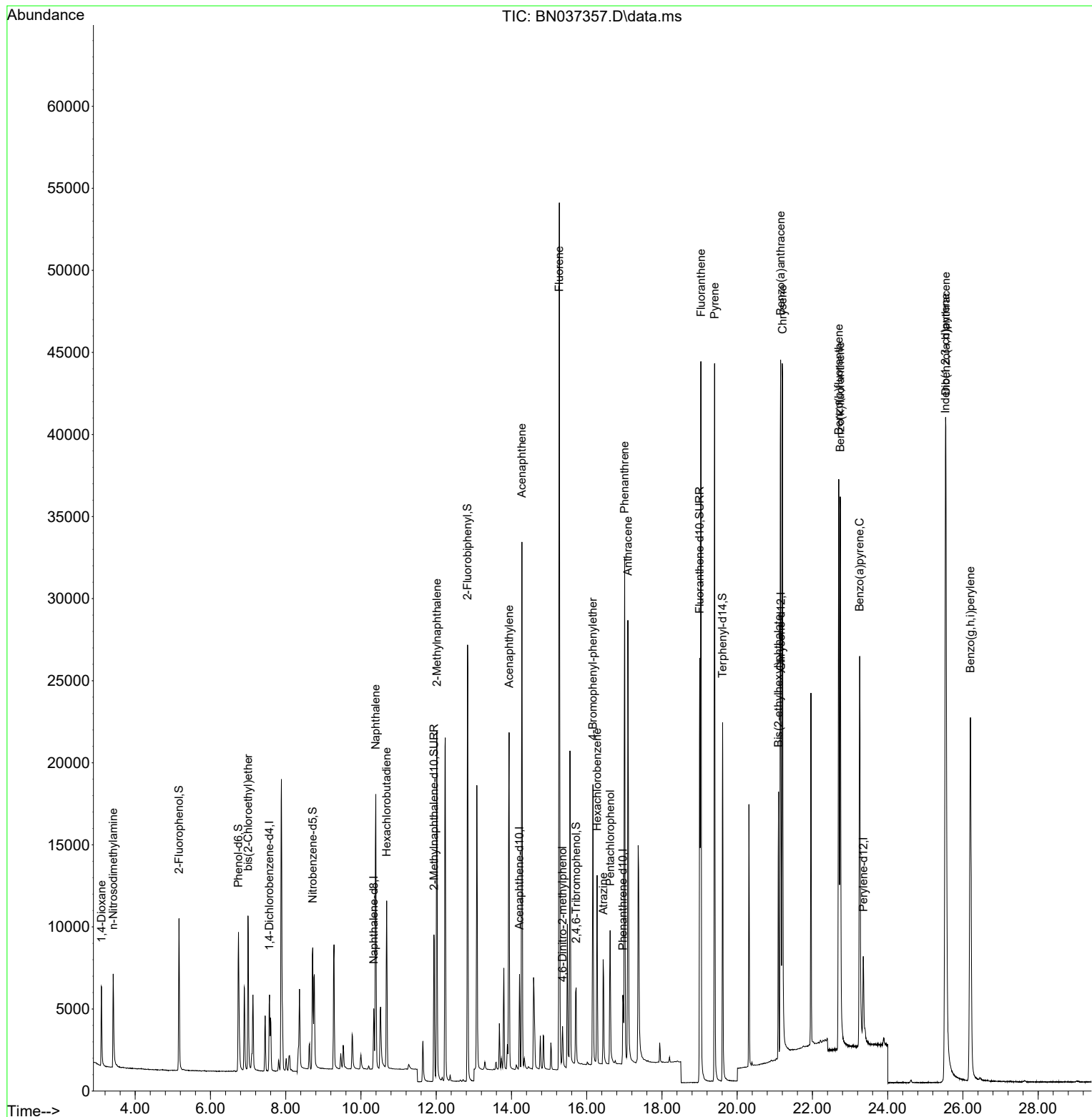
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	2270	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4835	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	3136	0.400	ng	0.00
19) Phenanthrene-d10	16.959	188	6455	0.400	ng	-0.01
29) Chrysene-d12	21.162	240	6604	0.400	ng	0.00
35) Perylene-d12	23.351	264	7013	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	7577	1.826	ng	0.00
5) Phenol-d6	6.744	99	8087	1.969	ng	0.00
8) Nitrobenzene-d5	8.717	82	7020	1.749	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	12882	1.647	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	3170	1.413	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	23802	1.730	ng	0.00
27) Fluoranthene-d10	19.003	212	31876	1.586	ng	0.00
31) Terphenyl-d14	19.612	244	24025	1.593	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.104	88	3788	1.889	ng	92
3) n-Nitrosodimethylamine	3.415	42	3553	1.522	ng	# 73
6) bis(2-Chloroethyl)ether	6.997	93	7504	2.088	ng	96
9) Naphthalene	10.394	128	21372	1.705	ng	# 86
10) Hexachlorobutadiene	10.682	225	8200	1.339	ng	# 99
12) 2-Methylnaphthalene	12.016	142	15021	1.704	ng	# 92
16) Acenaphthylene	13.935	152	22546	1.713	ng	98
17) Acenaphthene	14.277	154	14727	1.688	ng	99
18) Fluorene	15.272	166	20827	1.684	ng	100
20) 4,6-Dinitro-2-methylph...	15.357	198	2836	1.453	ng	# 49
21) 4-Bromophenyl-phenylether	16.165	248	7869	1.493	ng	# 91
22) Hexachlorobenzene	16.276	284	8354	1.519	ng	97
23) Atrazine	16.438	200	6166	1.495	ng	# 83
24) Pentachlorophenol	16.624	266	4361	1.445	ng	96
25) Phenanthrene	17.009	178	32059	1.758	ng	99
26) Anthracene	17.096	178	29693	1.743	ng	99
28) Fluoranthene	19.035	202	41430	1.660	ng	# 99
30) Pyrene	19.398	202	41513	1.642	ng	100
32) Benzo(a)anthracene	21.153	228	37793	1.773	ng	97
33) Chrysene	21.207	228	41889	1.550	ng	96
34) Bis(2-ethylhexyl)phtha...	21.099	149	13738	1.573	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.535	276	55371	1.863	ng	# 91
37) Benzo(b)fluoranthene	22.699	252	43215	1.738	ng	# 85
38) Benzo(k)fluoranthene	22.740	252	46879	1.736	ng	# 85
39) Benzo(a)pyrene	23.255	252	39242	1.724	ng	# 78
40) Dibenzo(a,h)anthracene	25.547	278	43786	1.849	ng	# 74
41) Benzo(g,h,i)perylene	26.199	276	48259	1.767	ng	94

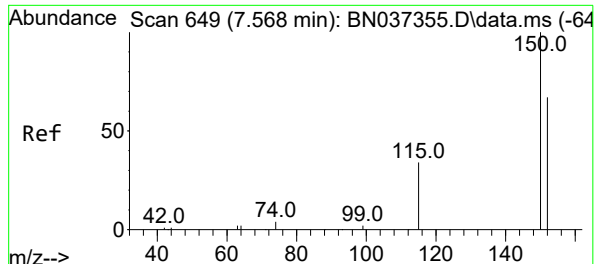
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037357.D
Acq On : 20 Jun 2025 19:15
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Jun 20 23:27:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration

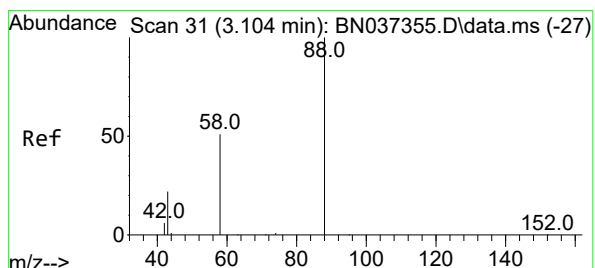
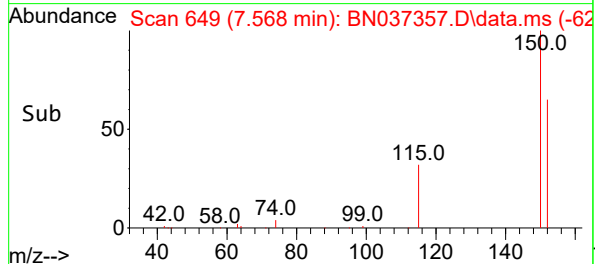
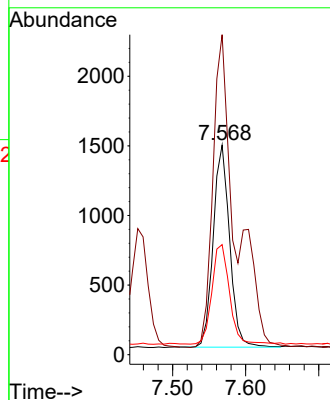
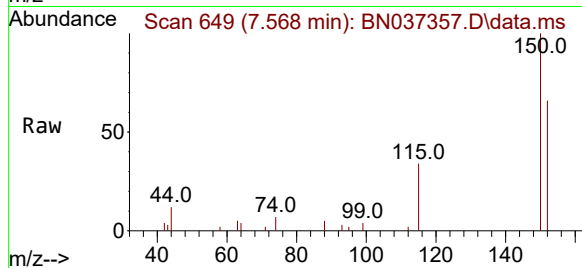




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

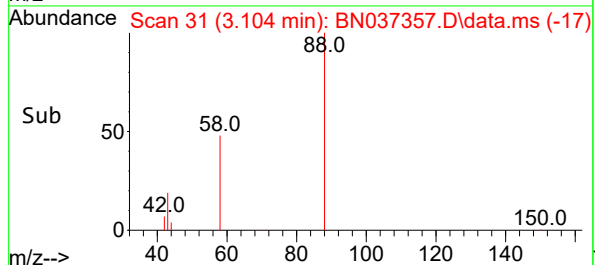
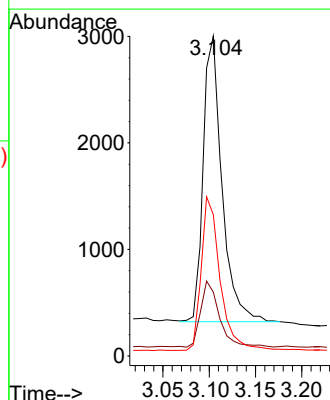
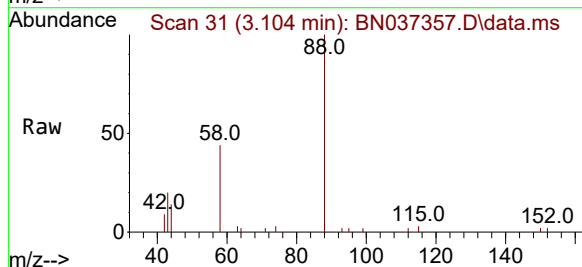
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

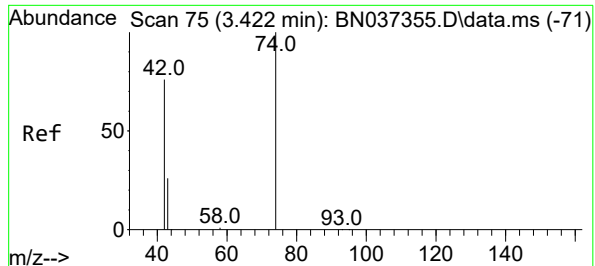
Tgt Ion:152 Resp: 2270
Ion Ratio Lower Upper
152 100
150 152.7 112.7 169.1
115 52.5 45.9 68.9



#2
1,4-Dioxane
Concen: 1.889 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion: 88 Resp: 3788
Ion Ratio Lower Upper
88 100
43 22.8 21.0 31.6
58 53.7 38.0 57.0

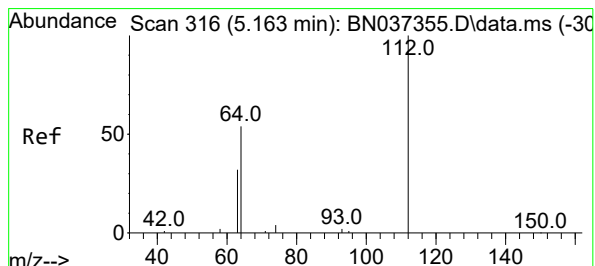
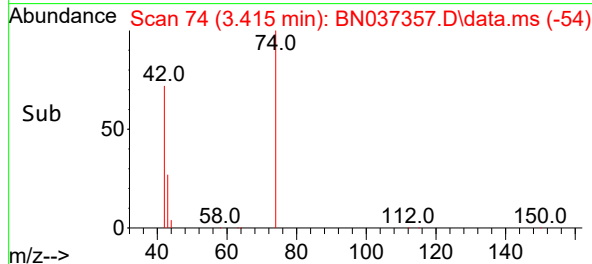
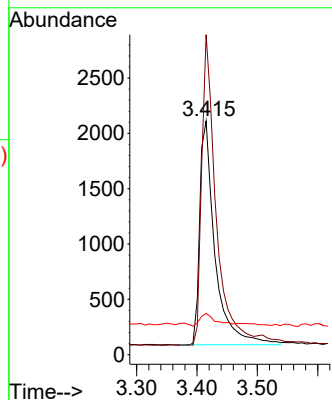
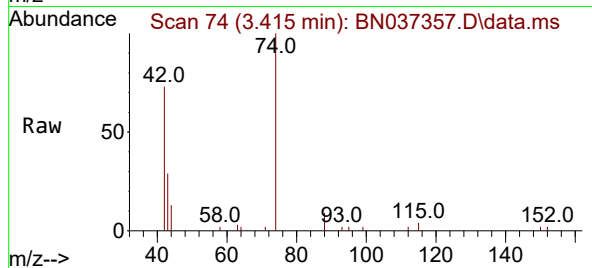




#3
n-Nitrosodimethylamine
Concen: 1.522 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

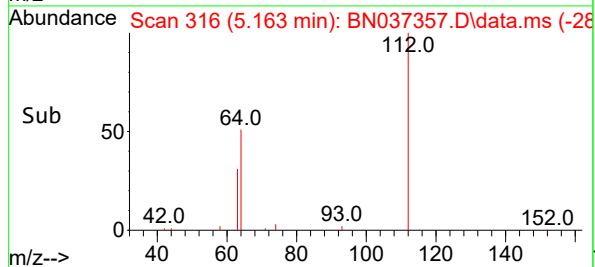
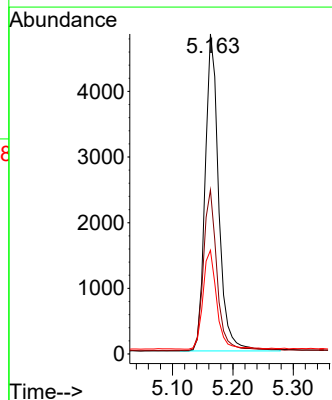
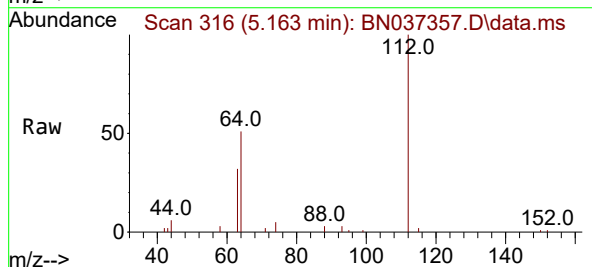
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

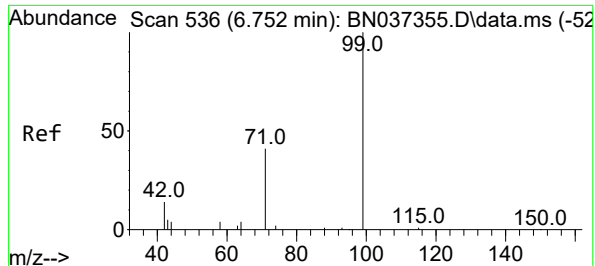
Tgt Ion: 42 Resp: 3553
Ion Ratio Lower Upper
42 100
74 134.8 84.3 126.5#
44 6.3 5.0 7.4



#4
2-Fluorophenol
Concen: 1.826 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion: 112 Resp: 7577
Ion Ratio Lower Upper
112 100
64 50.7 38.7 58.1
63 31.5 26.4 39.6

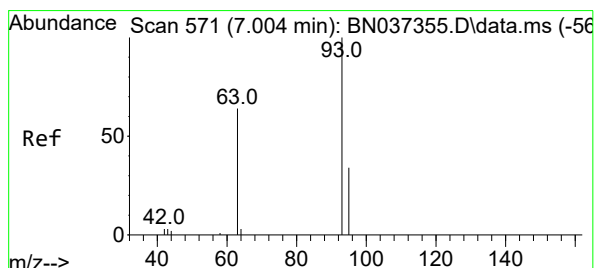
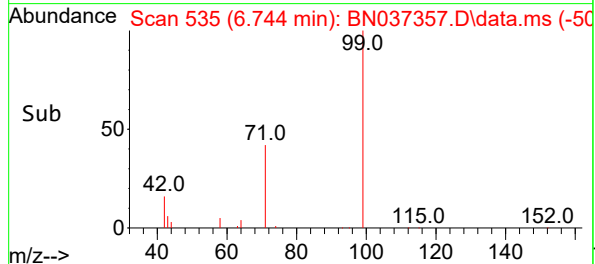
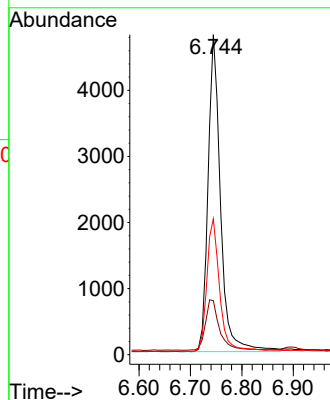
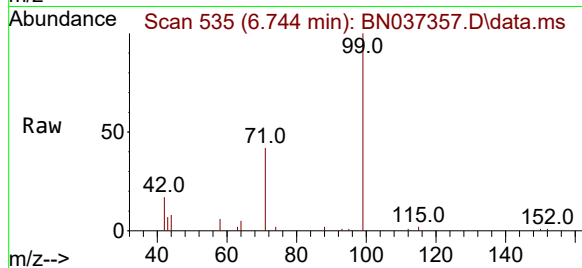




#5
Phenol-d6
Concen: 1.969 ng
RT: 6.744 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

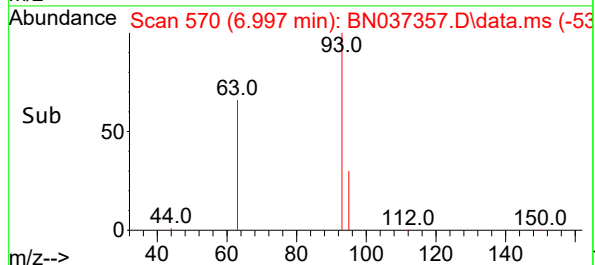
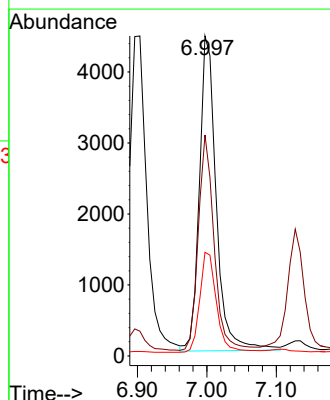
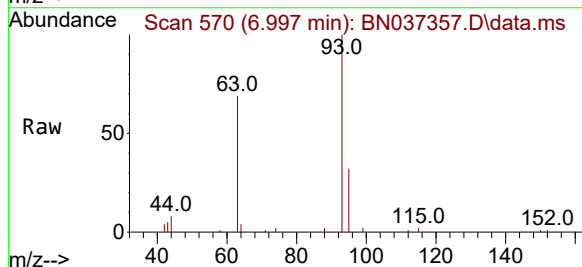
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

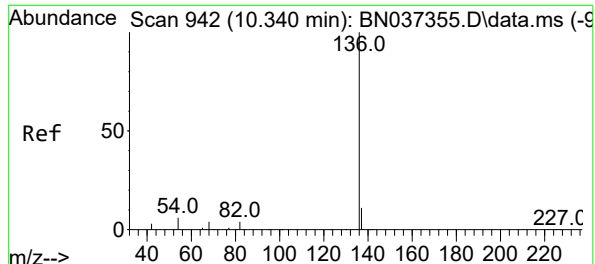
Tgt Ion: 99 Resp: 8087
Ion Ratio Lower Upper
99 100
42 18.1 19.8 29.8#
71 44.2 42.6 64.0



#6
bis(2-Chloroethyl)ether
Concen: 2.088 ng
RT: 6.997 min Scan# 570
Delta R.T. -0.007 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion: 93 Resp: 7504
Ion Ratio Lower Upper
93 100
63 64.1 53.2 79.8
95 31.5 27.3 40.9

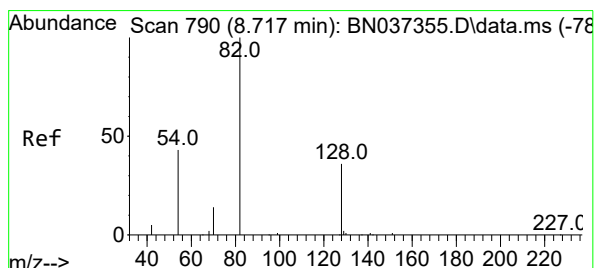
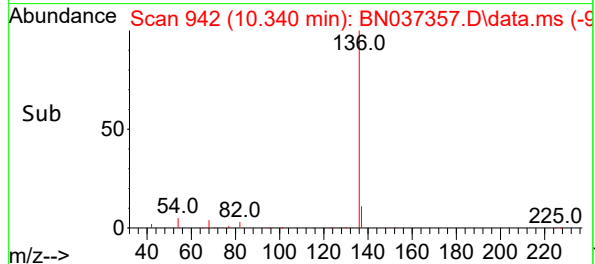
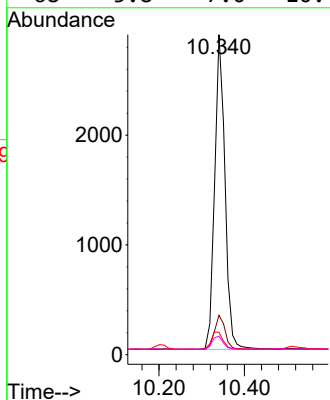
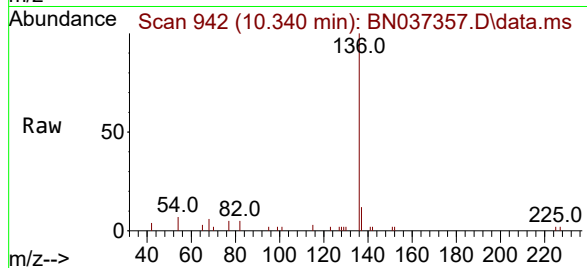




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

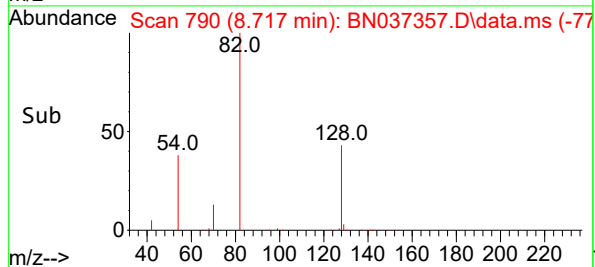
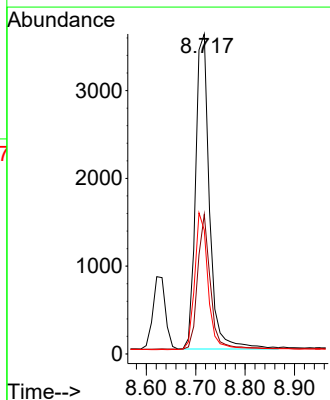
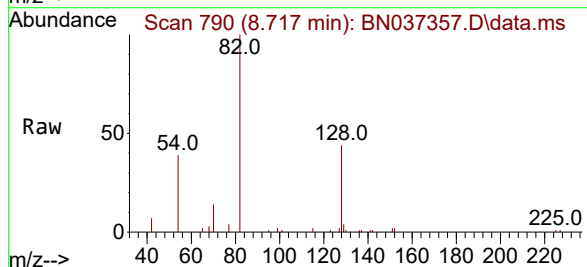
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

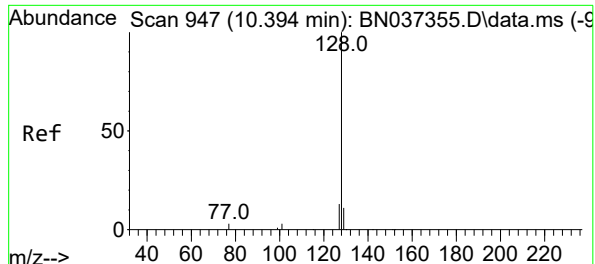
Tgt Ion:	136	Resp:	4835
Ion	Ratio	Lower	Upper
136	100		
137	12.3	12.2	18.2
54	7.0	8.8	13.2#
68	5.8	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 1.749 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:	82	Resp:	7020
Ion	Ratio	Lower	Upper
82	100		
128	43.6	42.5	63.7
54	38.7	43.2	64.8#

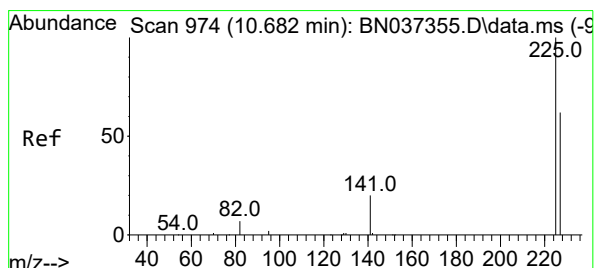
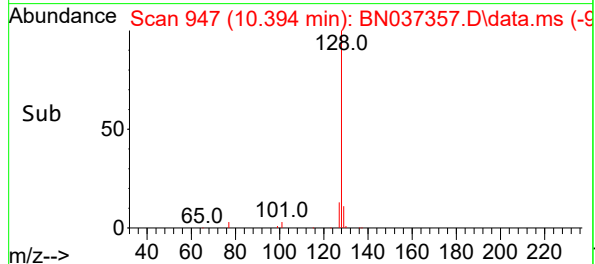
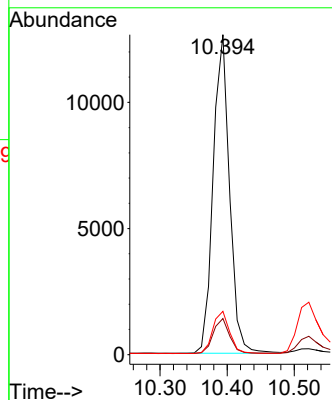
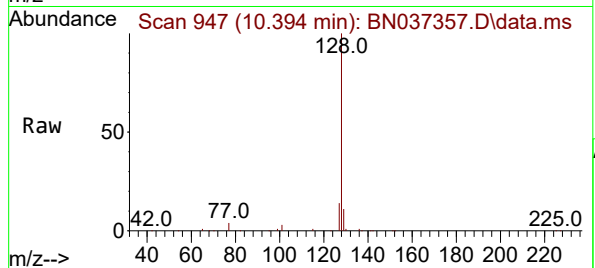




#9
Naphthalene
Concen: 1.705 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

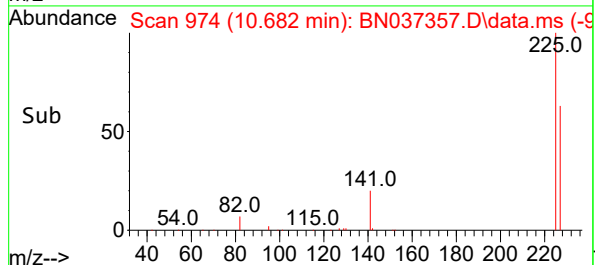
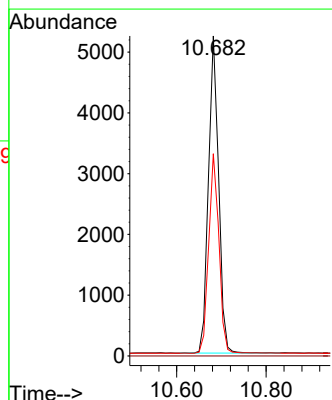
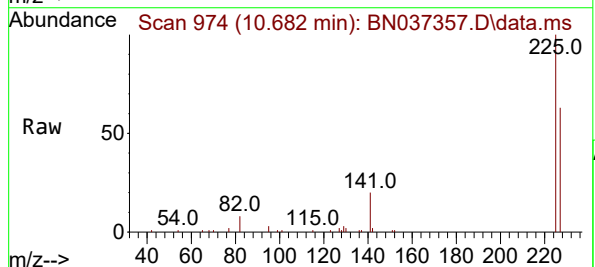
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

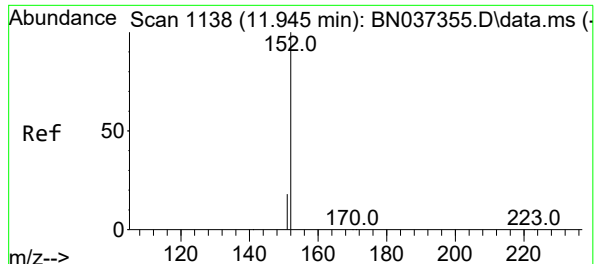
Tgt Ion:128 Resp: 21372
Ion Ratio Lower Upper
128 100
129 11.3 14.0 21.0#
127 13.6 15.8 23.8#



#10
Hexachlorobutadiene
Concen: 1.339 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:225 Resp: 8200
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.5 50.3 75.5

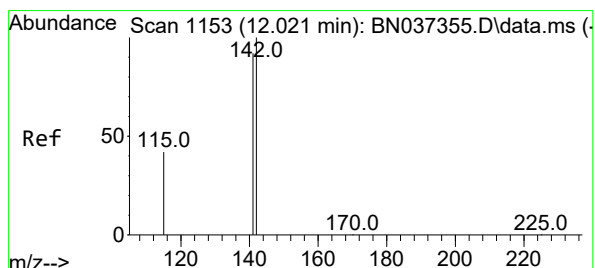
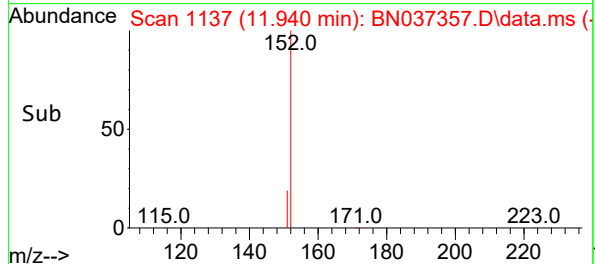
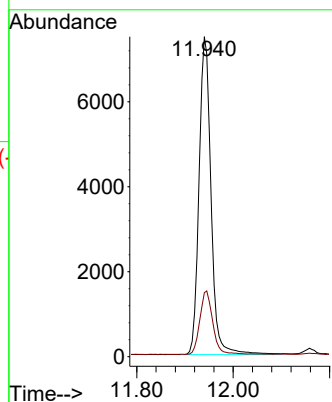
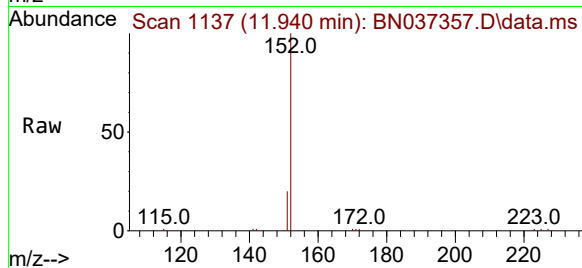




#11
2-Methylnaphthalene-d10
Concen: 1.647 ng
RT: 11.940 min Scan# 1138
Delta R.T. -0.005 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

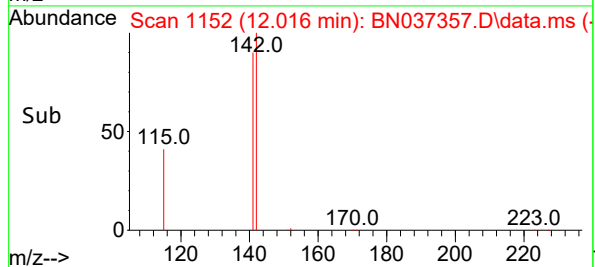
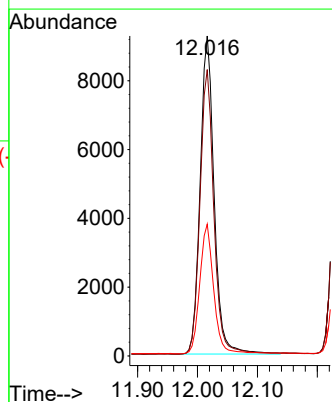
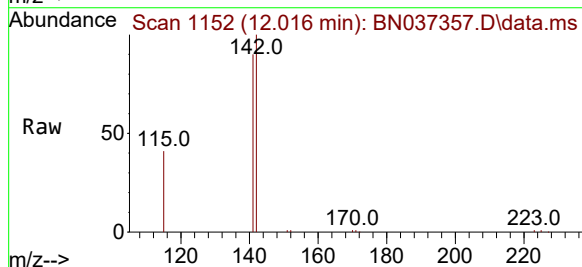
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

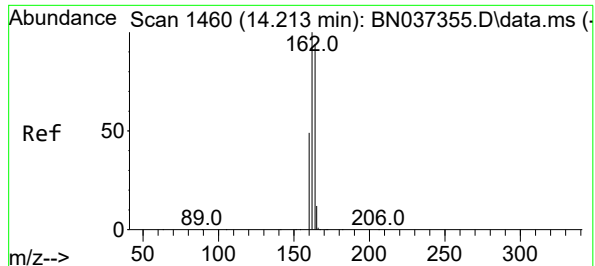
Tgt Ion:152 Resp: 12882
Ion Ratio Lower Upper
152 100
151 21.8 17.4 26.0



#12
2-Methylnaphthalene
Concen: 1.704 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:142 Resp: 15021
Ion Ratio Lower Upper
142 100
141 89.5 70.2 105.2
115 41.2 43.0 64.4#

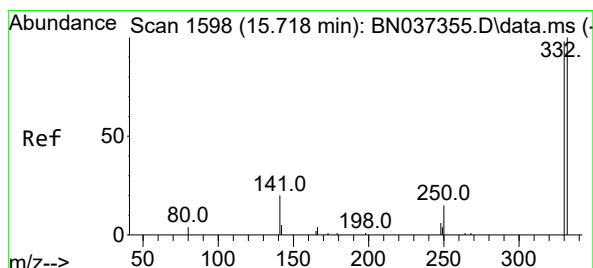
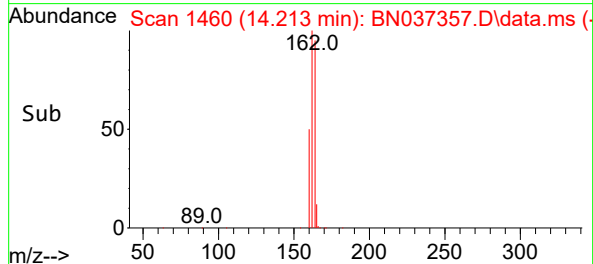
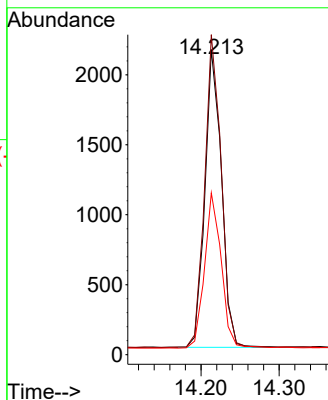
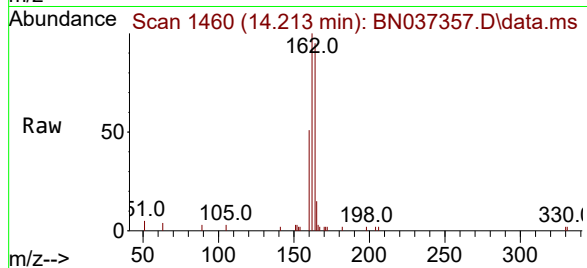




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

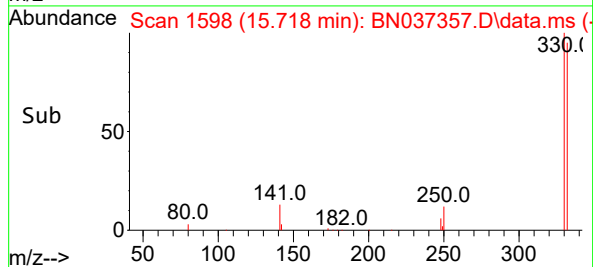
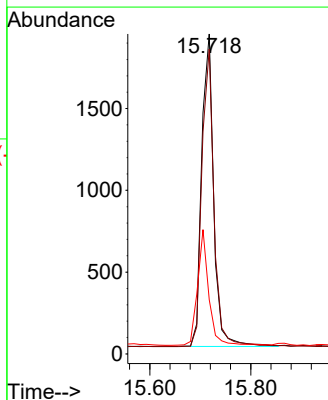
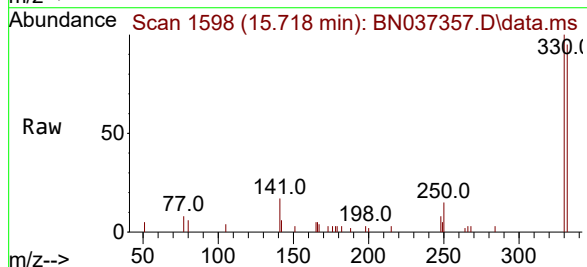
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

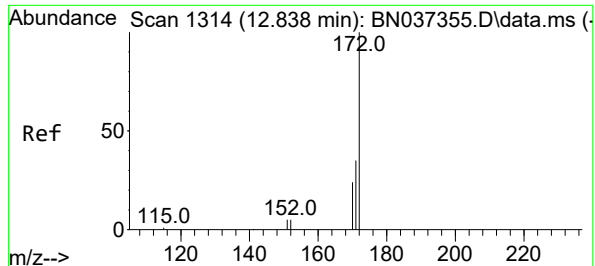
Tgt Ion:164 Resp: 3136
Ion Ratio Lower Upper
164 100
162 105.0 81.5 122.3
160 53.1 43.0 64.4



#14
2,4,6-Tribromophenol
Concen: 1.413 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:330 Resp: 3170
Ion Ratio Lower Upper
330 100
332 95.9 78.4 117.6
141 34.3 24.4 36.6

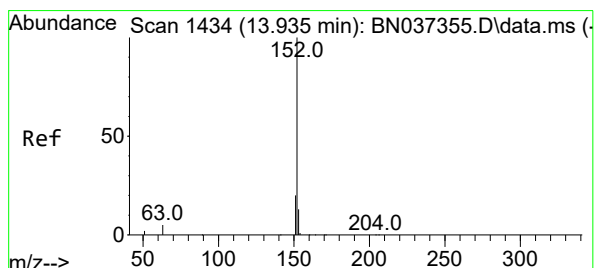
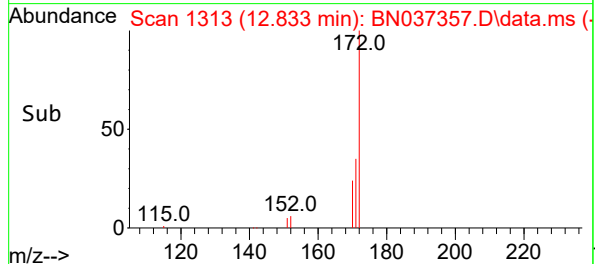
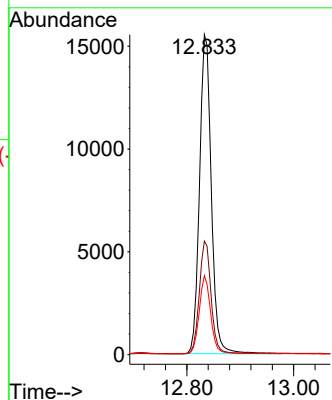
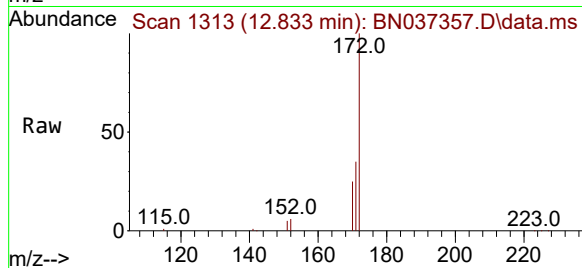




#15
2-Fluorobiphenyl
Concen: 1.730 ng
RT: 12.833 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

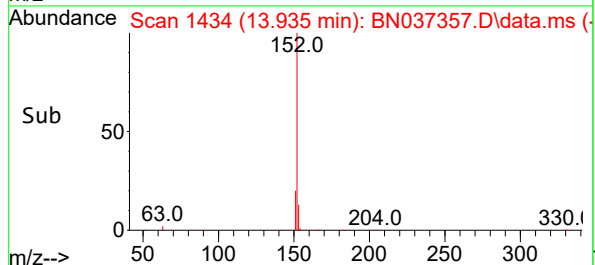
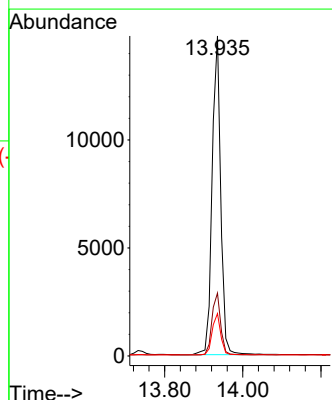
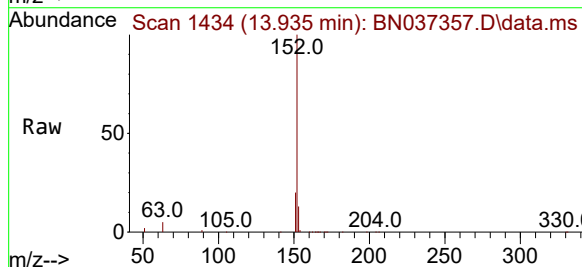
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

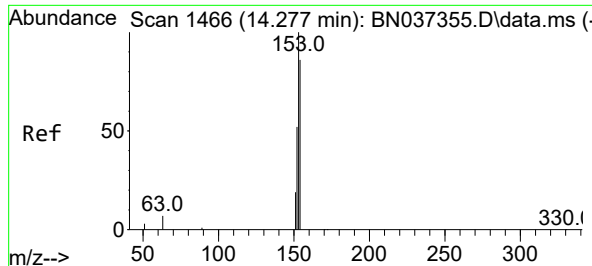
Tgt Ion	Ratio	Lower	Upper
172	100		
171	35.5	30.8	46.2
170	24.7	21.9	32.9



#16
Acenaphthylene
Concen: 1.713 ng
RT: 13.935 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.6	16.6	24.8
153	13.0	10.2	15.2





#17

Acenaphthene

Concen: 1.688 ng

RT: 14.277 min Scan# 1466

Delta R.T. -0.000 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

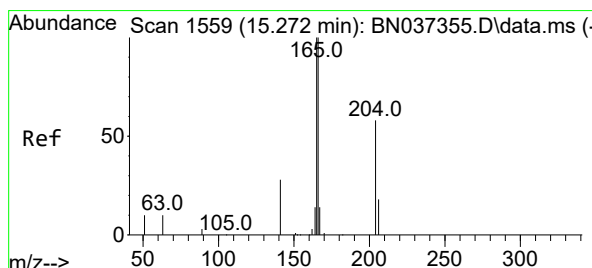
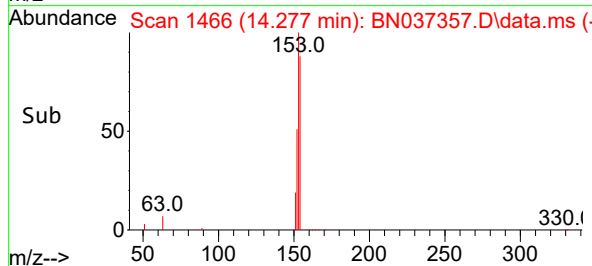
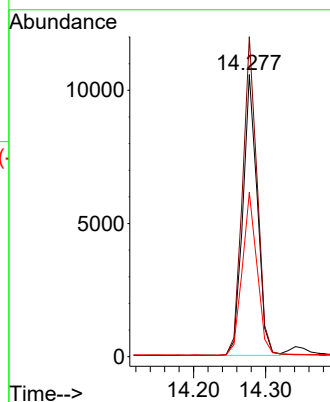
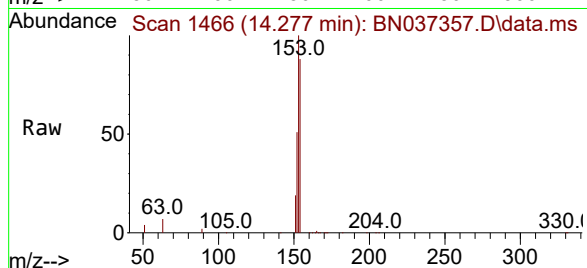
Tgt Ion:154 Resp: 14727

Ion Ratio Lower Upper

154 100

153 115.0 93.1 139.7

152 60.4 48.6 73.0



#18

Fluorene

Concen: 1.684 ng

RT: 15.272 min Scan# 1559

Delta R.T. -0.000 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

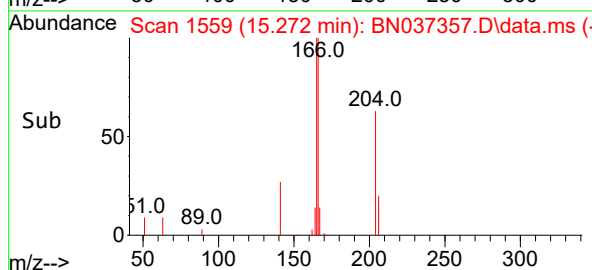
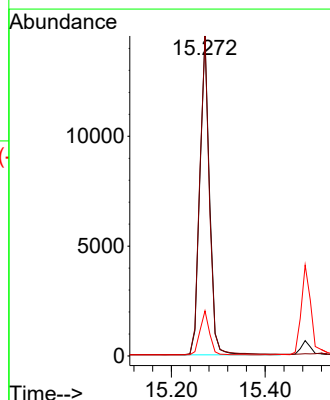
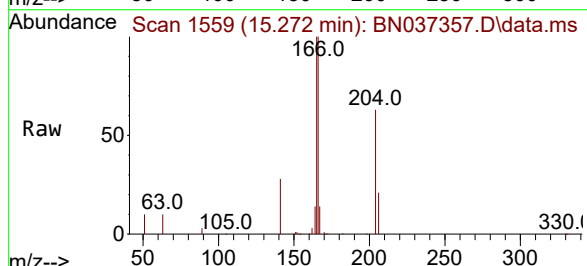
Tgt Ion:166 Resp: 20827

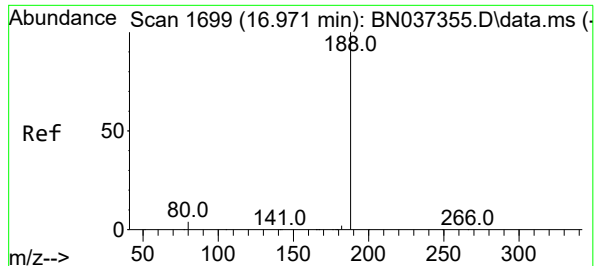
Ion Ratio Lower Upper

166 100

165 99.5 79.5 119.3

167 13.8 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.959 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

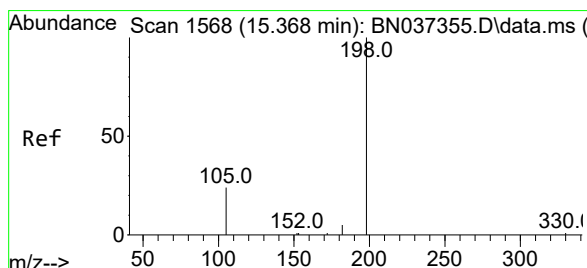
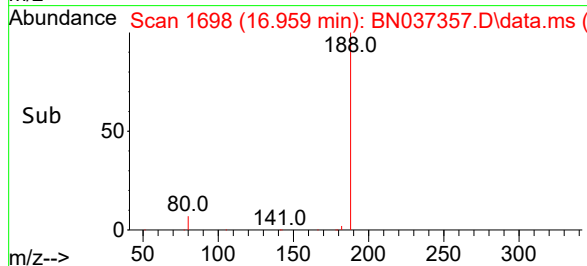
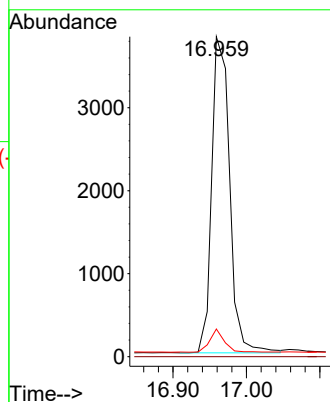
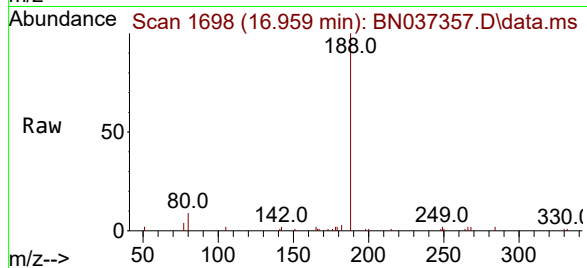
Tgt Ion:188 Resp: 6455

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.6 6.2 9.2



#20

4,6-Dinitro-2-methylphenol

Concen: 1.453 ng

RT: 15.357 min Scan# 1567

Delta R.T. -0.011 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

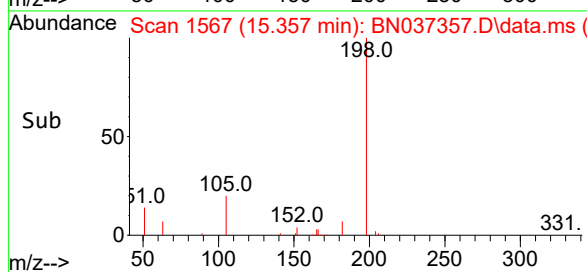
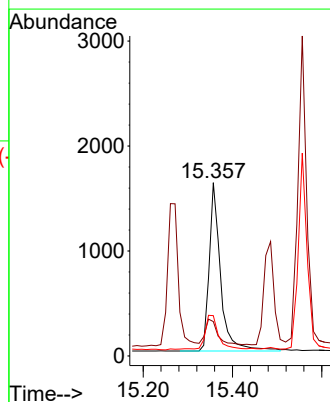
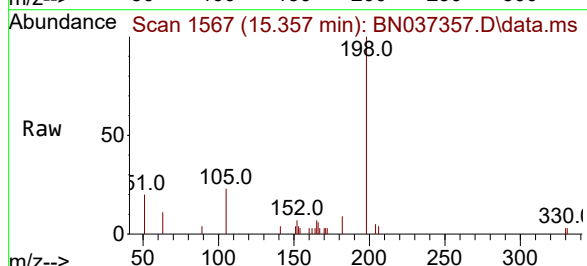
Tgt Ion:198 Resp: 2836

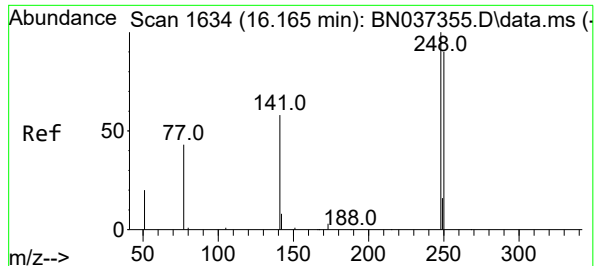
Ion Ratio Lower Upper

198 100

51 19.9 51.4 77.0#

105 23.3 45.5 68.3#

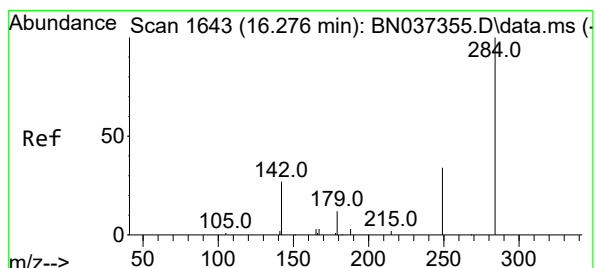
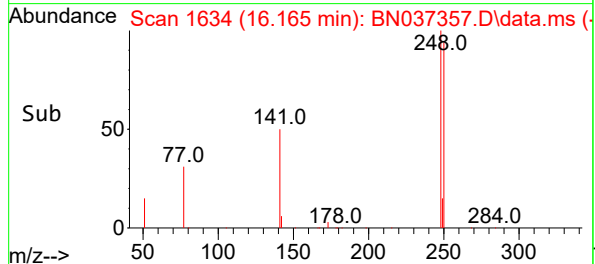
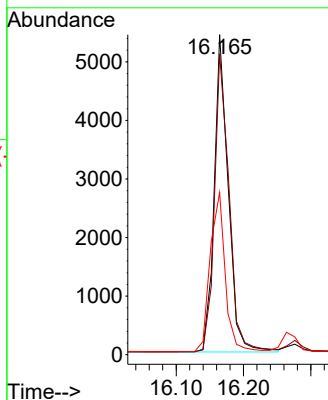
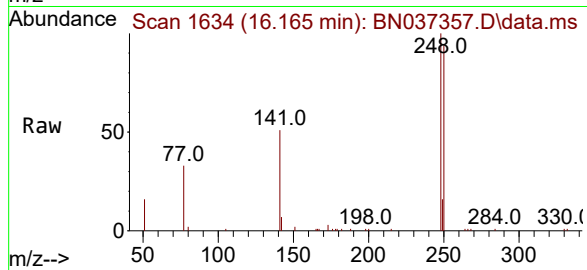




#21
4-Bromophenyl-phenylether
Concen: 1.493 ng
RT: 16.165 min Scan# 1634
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

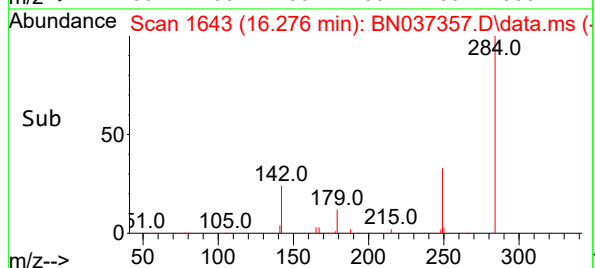
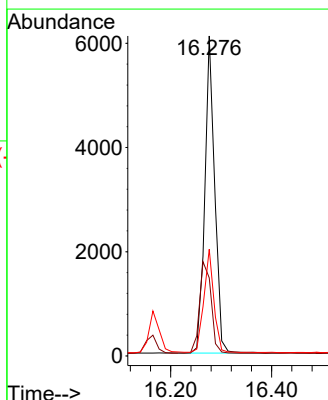
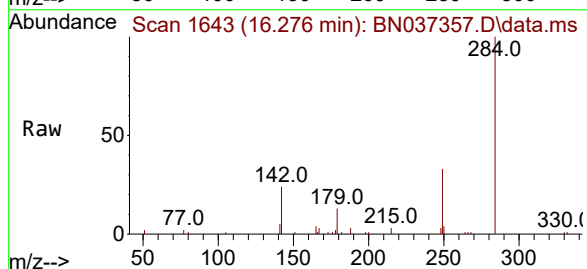
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

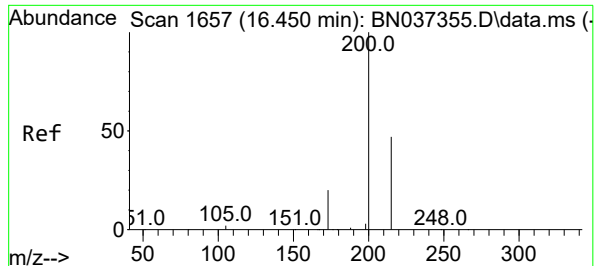
Tgt Ion	Ratio	Lower	Upper
248	100		
250	94.1	80.4	120.6
141	50.7	33.3	49.9



#22
Hexachlorobenzene
Concen: 1.519 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion	Ratio	Lower	Upper
284	100		
142	33.8	27.0	40.6
249	32.9	28.8	43.2





#23

Atrazine

Concen: 1.495 ng

RT: 16.438 min Scan# 1656

Delta R.T. -0.012 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

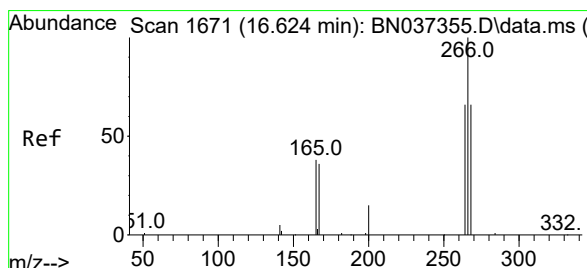
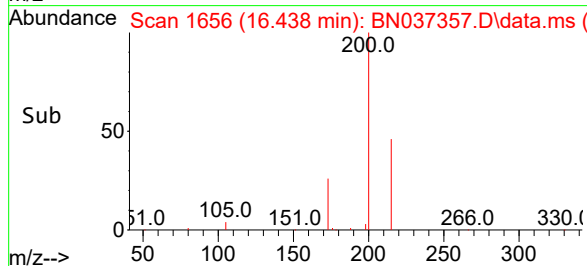
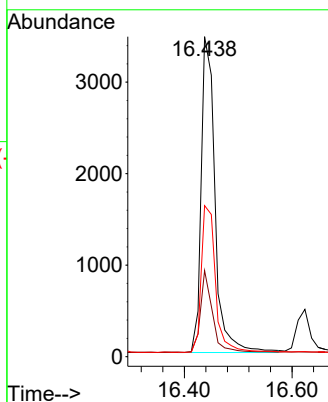
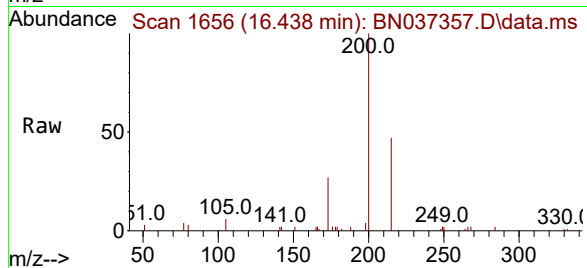
Tgt Ion:200 Resp: 6166

Ion Ratio Lower Upper

200 100

173 26.9 29.2 43.8#

215 47.2 48.8 73.2#



#24

Pentachlorophenol

Concen: 1.445 ng

RT: 16.624 min Scan# 1671

Delta R.T. -0.000 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

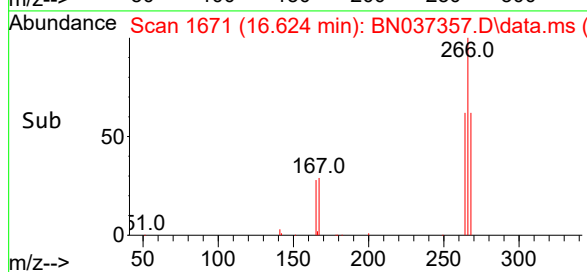
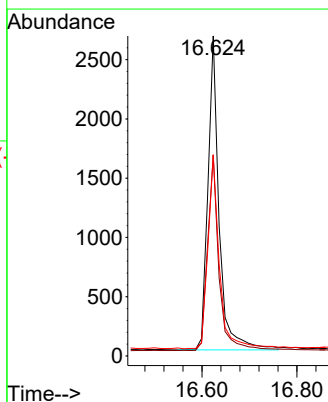
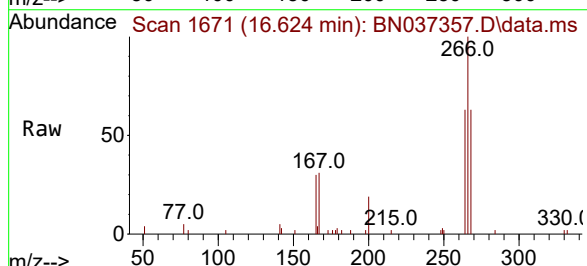
Tgt Ion:266 Resp: 4361

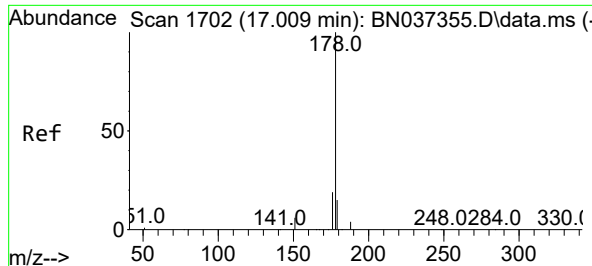
Ion Ratio Lower Upper

266 100

264 62.9 50.3 75.5

268 63.6 55.3 82.9

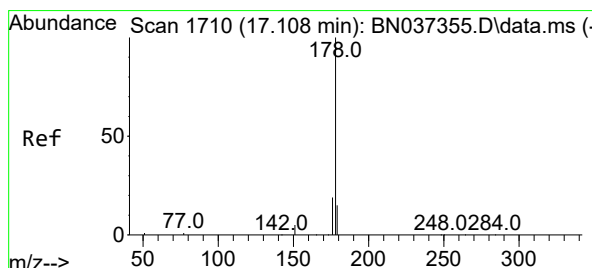
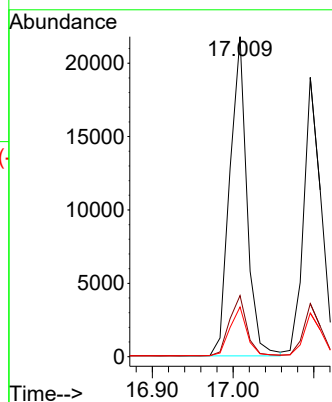
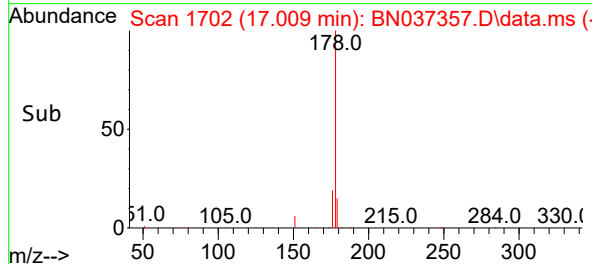
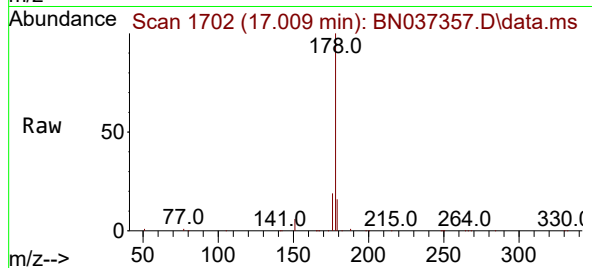




#25
Phenanthrene
Concen: 1.758 ng
RT: 17.009 min Scan# 1709
Delta R.T. -0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

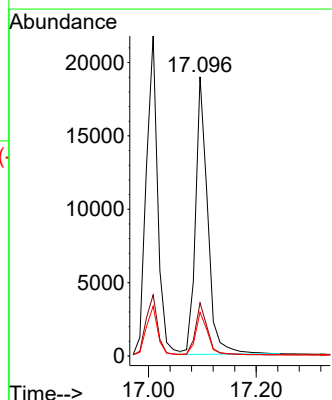
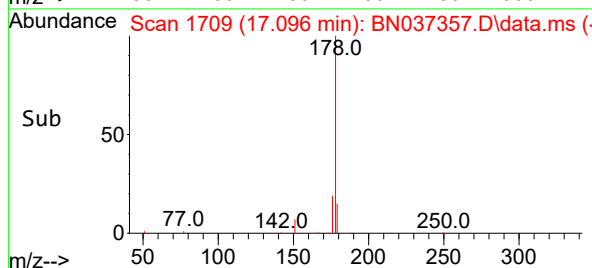
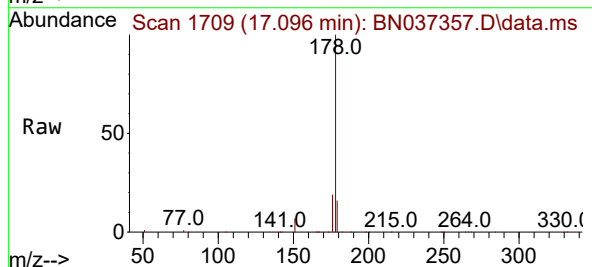
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

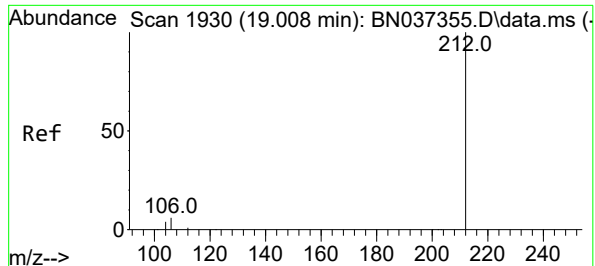
Tgt Ion:178 Resp: 32059
Ion Ratio Lower Upper
178 100
176 19.2 15.2 22.8
179 15.4 12.9 19.3



#26
Anthracene
Concen: 1.743 ng
RT: 17.096 min Scan# 1709
Delta R.T. -0.012 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:178 Resp: 29693
Ion Ratio Lower Upper
178 100
176 18.7 14.7 22.1
179 15.5 13.0 19.6





#27

Fluoranthene-d10

Concen: 1.586 ng

RT: 19.003 min Scan# 1929

Delta R.T. -0.005 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

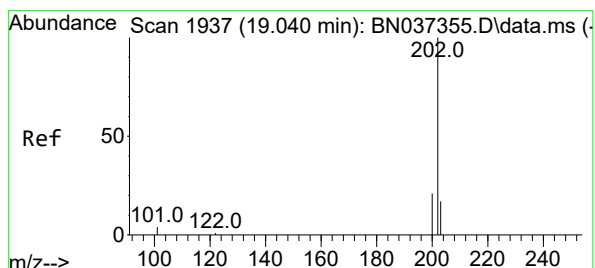
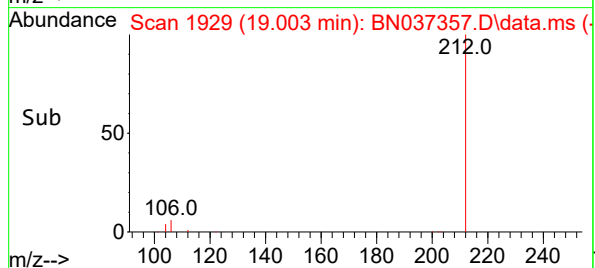
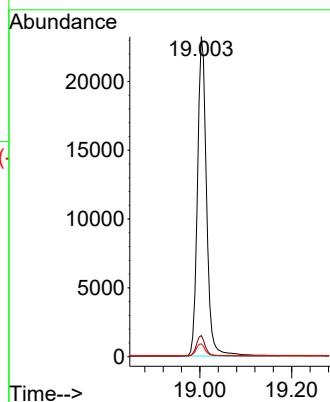
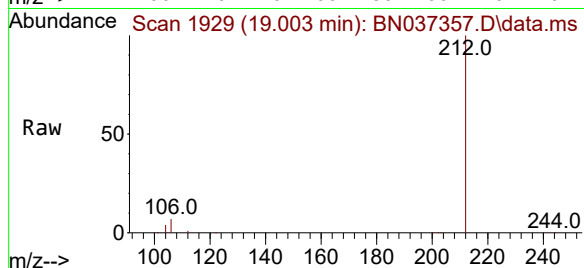
Tgt Ion:212 Resp: 31876

Ion Ratio Lower Upper

212 100

106 6.3 3.0 4.4#

104 3.8 2.0 3.0#



#28

Fluoranthene

Concen: 1.660 ng

RT: 19.035 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

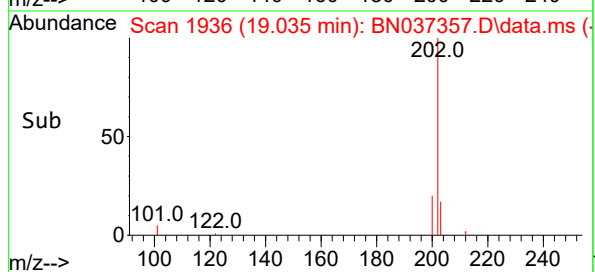
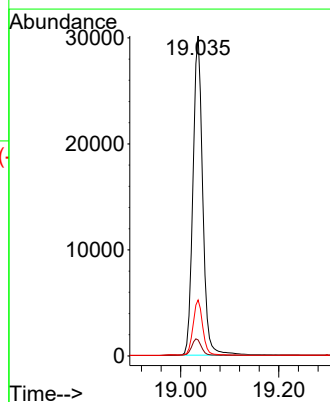
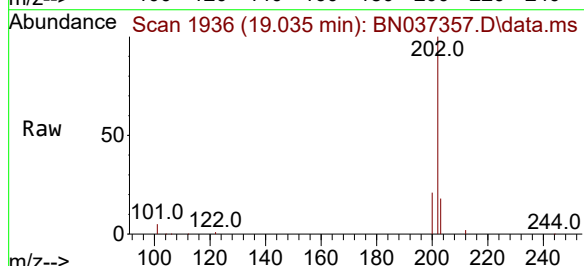
Tgt Ion:202 Resp: 41430

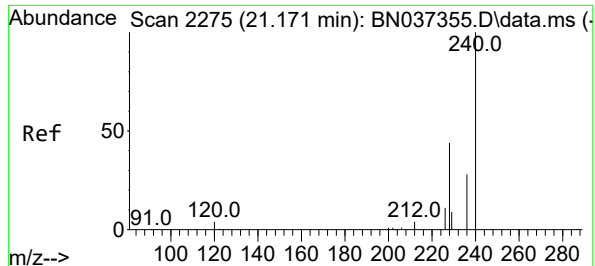
Ion Ratio Lower Upper

202 100

101 5.4 3.0 4.6#

203 17.3 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

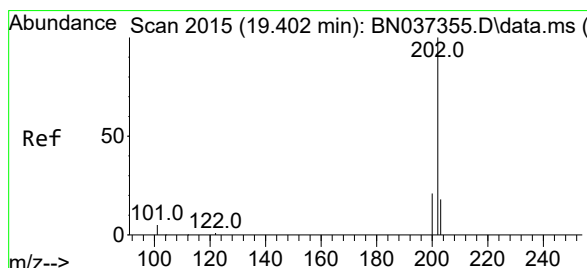
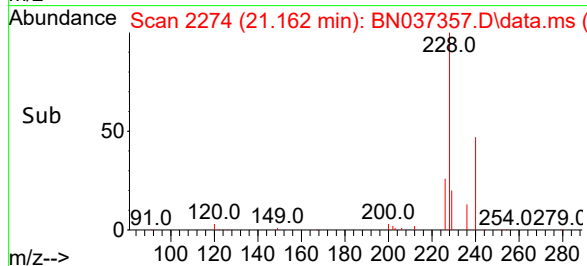
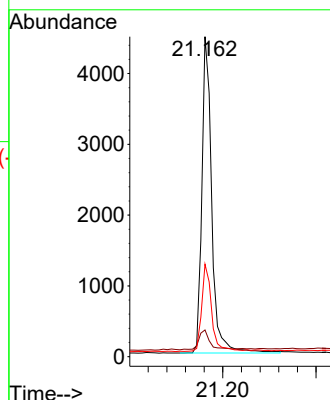
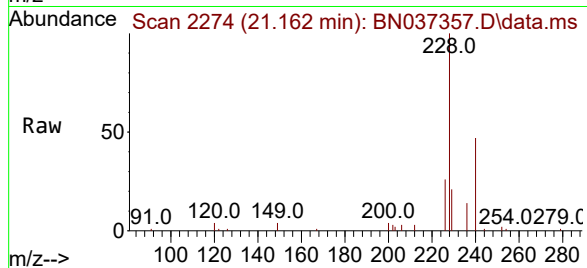
Tgt Ion:240 Resp: 6604

Ion Ratio Lower Upper

240 100

120 8.3 7.5 11.3

236 28.9 24.9 37.3



#30

Pyrene

Concen: 1.642 ng

RT: 19.398 min Scan# 2014

Delta R.T. -0.005 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

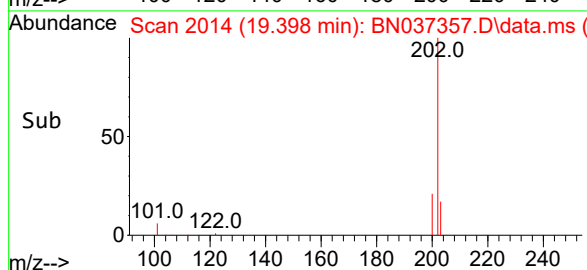
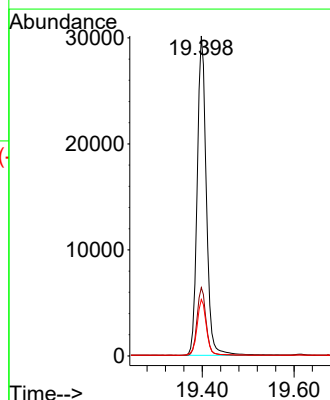
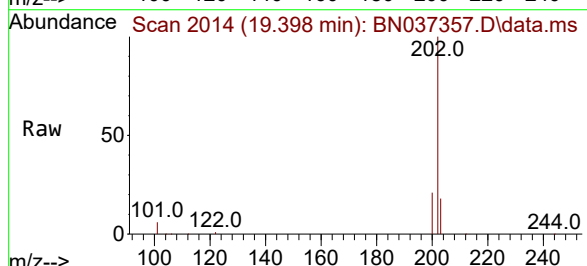
Tgt Ion:202 Resp: 41513

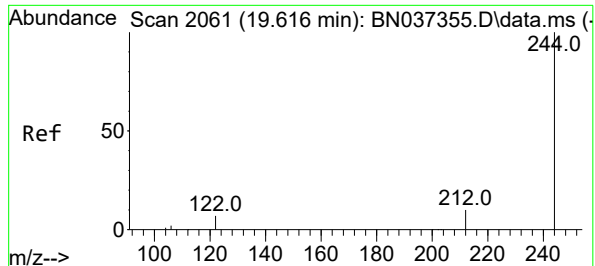
Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

203 17.9 14.5 21.7

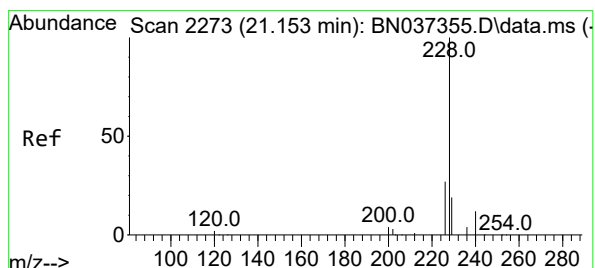
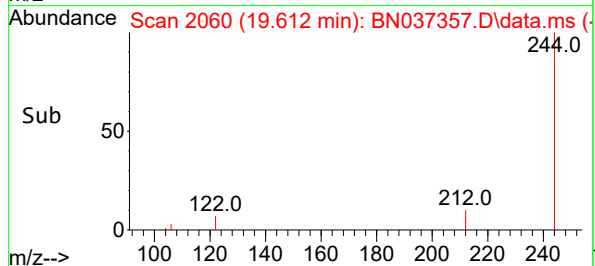
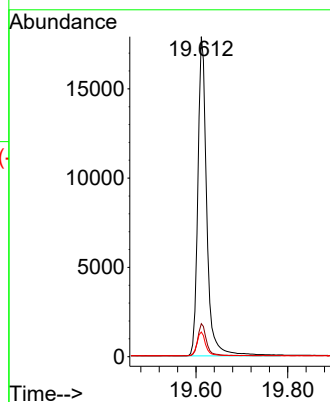
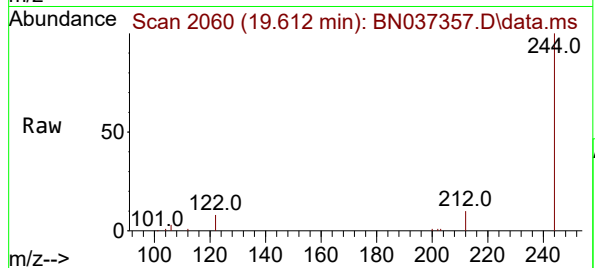




#31
Terphenyl-d14
Concen: 1.593 ng
RT: 19.612 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

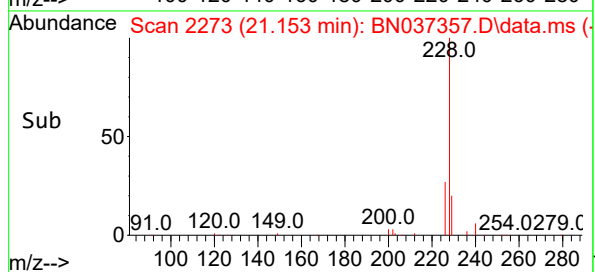
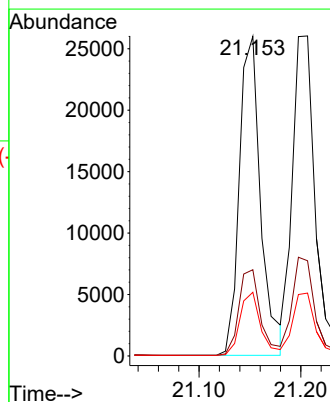
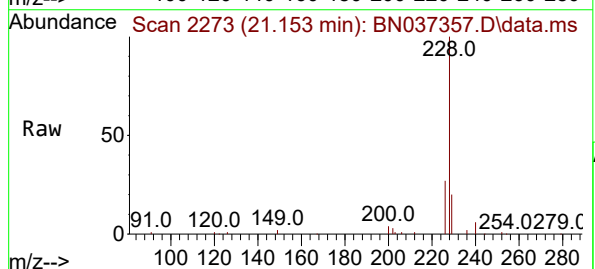
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

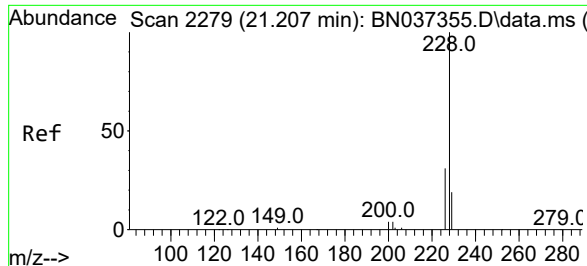
Tgt Ion:244 Resp: 24025
Ion Ratio Lower Upper
244 100
212 10.3 11.1 16.7#
122 7.7 7.2 10.8



#32
Benzo(a)anthracene
Concen: 1.773 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.000 min
Lab File: BN037357.D
Acq: 20 Jun 2025 19:15

Tgt Ion:228 Resp: 37793
Ion Ratio Lower Upper
228 100
226 27.0 23.0 34.4
229 19.9 17.4 26.0





#33

Chrysene

Concen: 1.550 ng

RT: 21.207 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

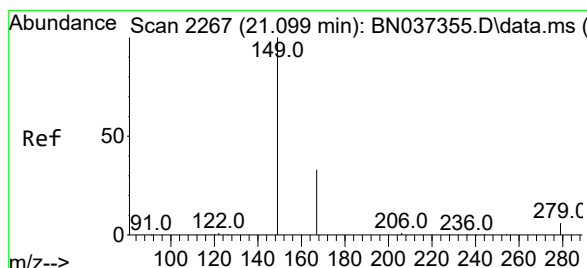
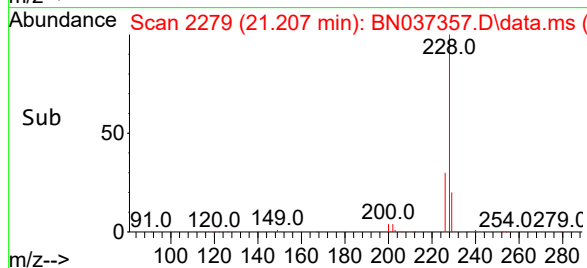
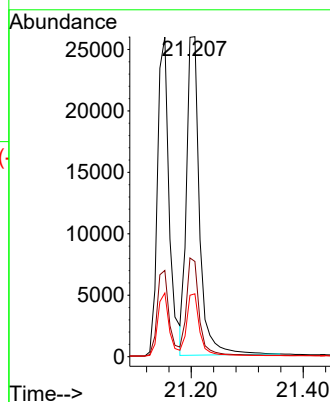
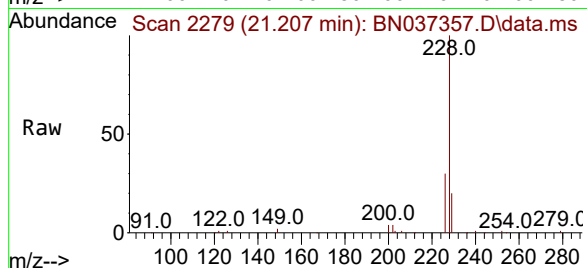
Tgt Ion:228 Resp: 41889

Ion Ratio Lower Upper

228 100

226 29.8 25.4 38.2

229 19.7 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.573 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.000 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

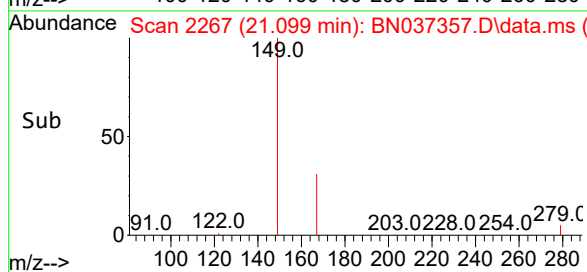
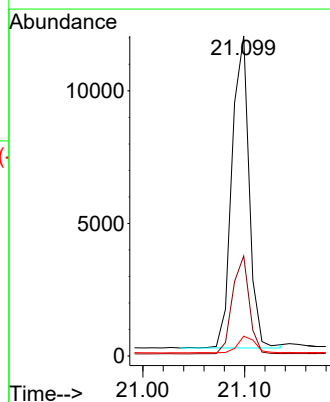
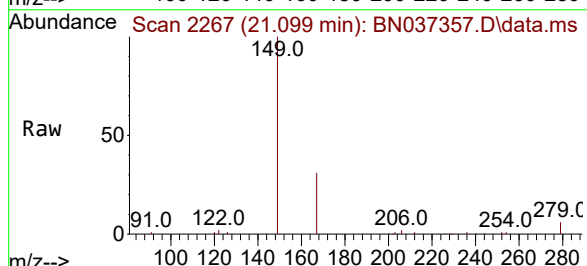
Tgt Ion:149 Resp: 13738

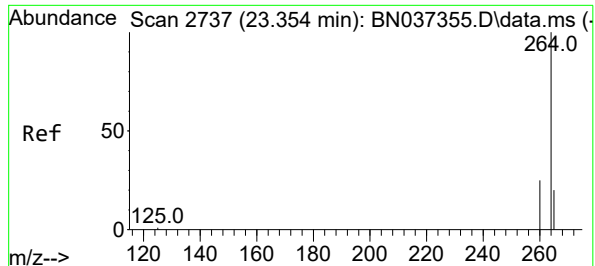
Ion Ratio Lower Upper

149 100

167 30.9 24.6 37.0

279 5.5 6.5 9.7#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.351 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

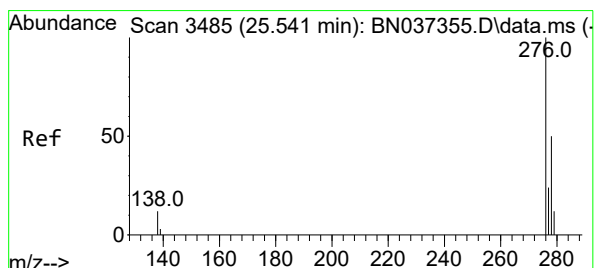
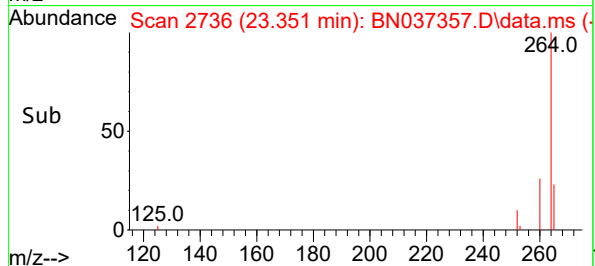
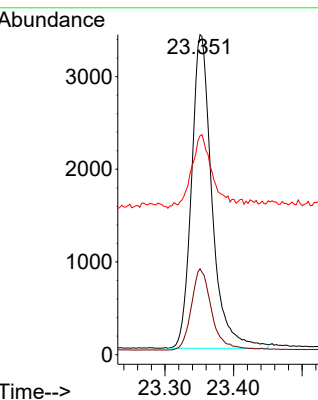
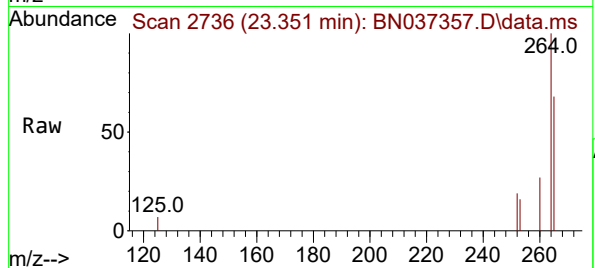
Tgt Ion:264 Resp: 7013

Ion Ratio Lower Upper

264 100

260 26.9 21.4 32.2

265 68.4 71.4 107.0#



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.863 ng

RT: 25.535 min Scan# 3483

Delta R.T. -0.006 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

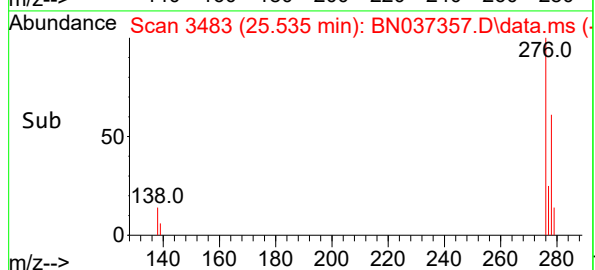
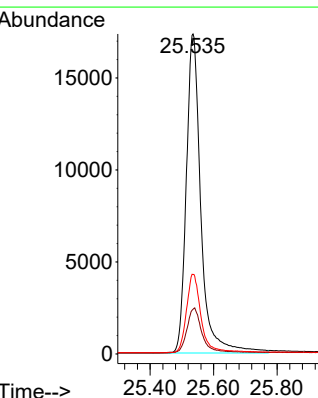
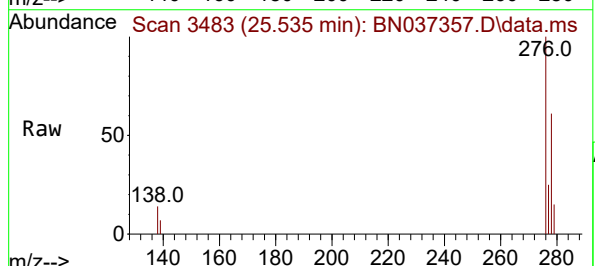
Tgt Ion:276 Resp: 55371

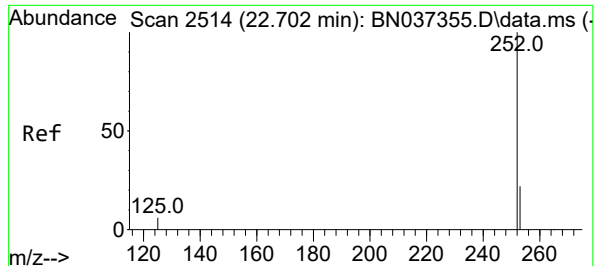
Ion Ratio Lower Upper

276 100

138 14.3 2.2 3.2#

277 24.2 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 1.738 ng

RT: 22.699 min Scan# 2513

Delta R.T. -0.003 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

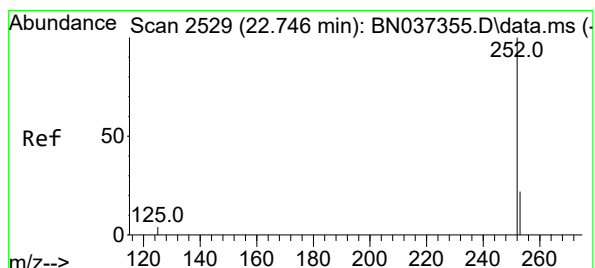
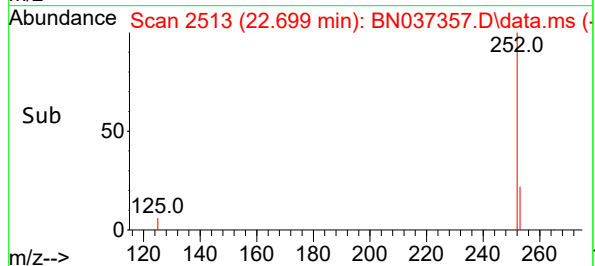
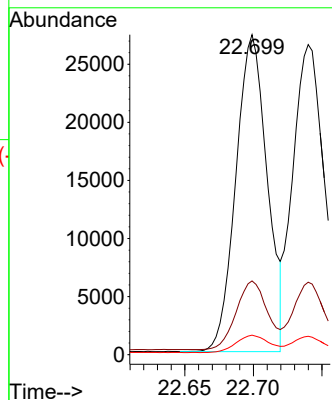
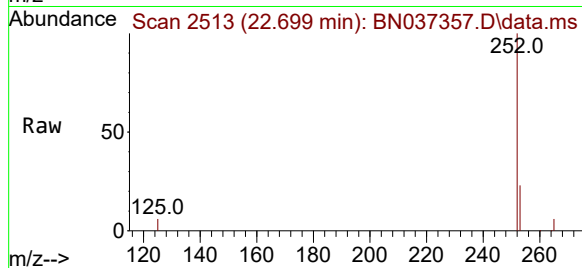
Tgt Ion:252 Resp: 43215

Ion Ratio Lower Upper

252 100

253 23.1 26.6 40.0#

125 6.1 6.1 9.1



#38

Benzo(k)fluoranthene

Concen: 1.736 ng

RT: 22.740 min Scan# 2527

Delta R.T. -0.006 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

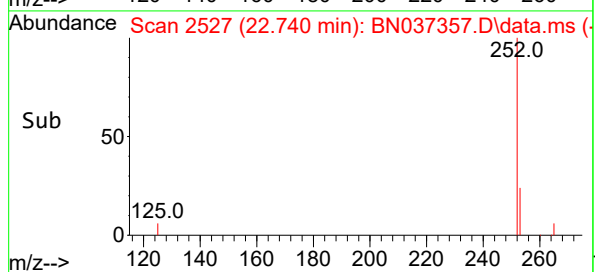
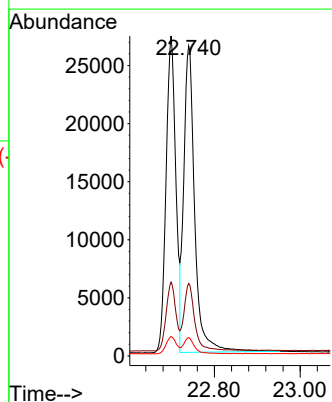
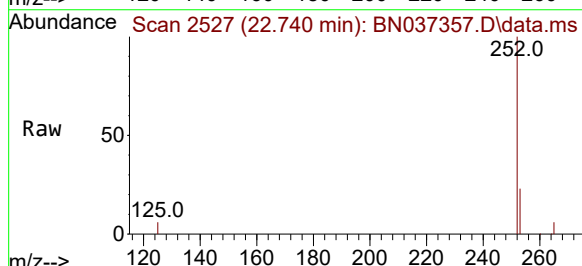
Tgt Ion:252 Resp: 46879

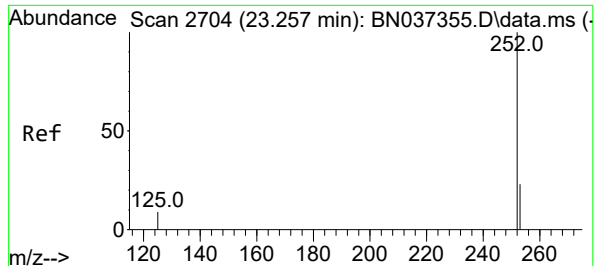
Ion Ratio Lower Upper

252 100

253 23.4 26.7 40.1#

125 6.0 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 1.724 ng

RT: 23.255 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

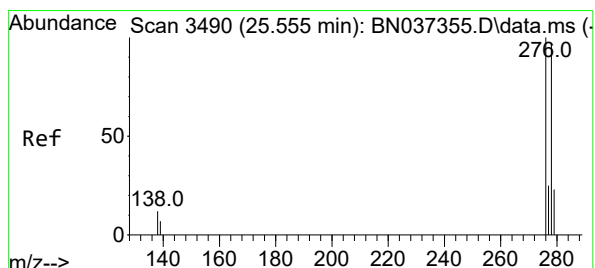
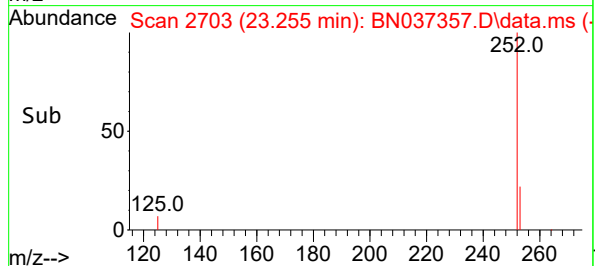
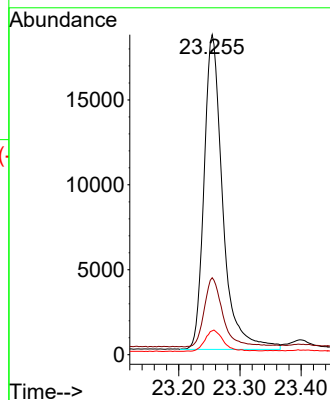
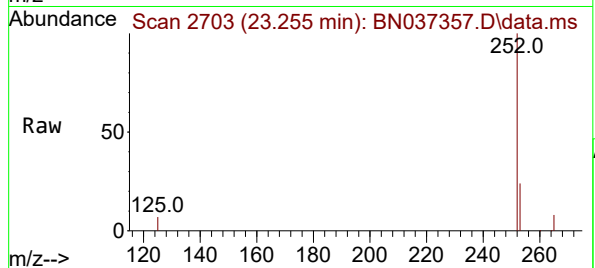
Tgt Ion:252 Resp: 39242

Ion Ratio Lower Upper

252 100

253 24.1 31.6 47.4#

125 7.5 8.4 12.6#



#40

Dibenzo(a,h)anthracene

Concen: 1.849 ng

RT: 25.547 min Scan# 3487

Delta R.T. -0.009 min

Lab File: BN037357.D

Acq: 20 Jun 2025 19:15

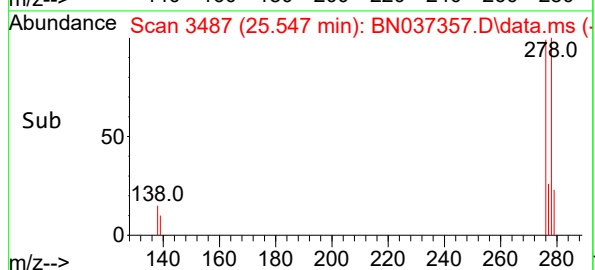
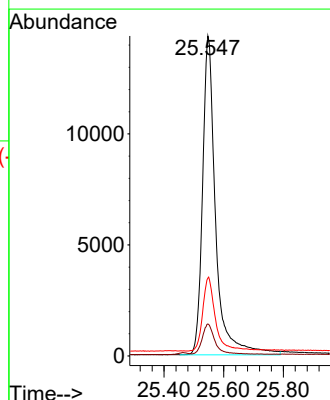
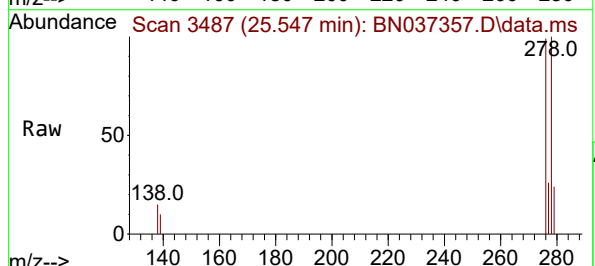
Tgt Ion:278 Resp: 43786

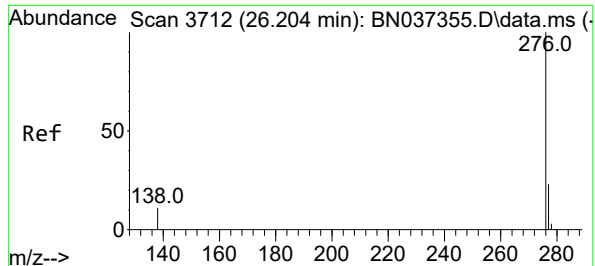
Ion Ratio Lower Upper

278 100

139 10.0 10.2 15.4#

279 24.3 35.6 53.4#





#41

Benzo(g,h,i)perylene

Concen: 1.767 ng

RT: 26.199 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037357.D

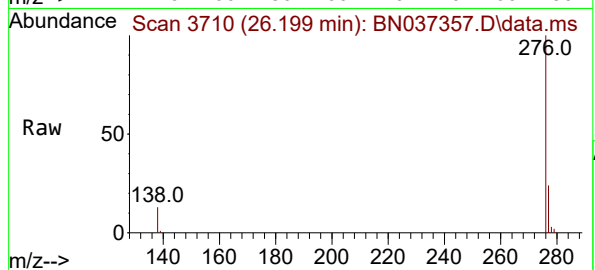
Acq: 20 Jun 2025 19:15

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



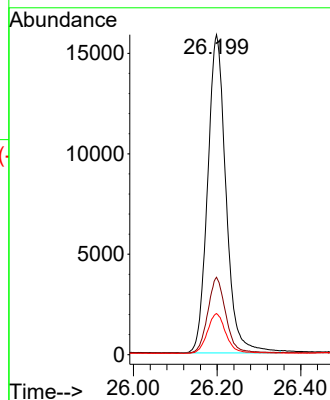
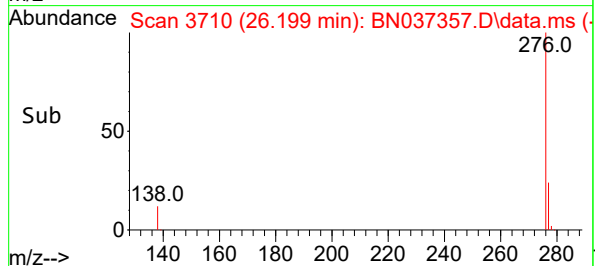
Tgt Ion:276 Resp: 48259

Ion Ratio Lower Upper

276 100

277 24.2 22.7 34.1

138 12.9 9.4 14.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037358.D
 Acq On : 20 Jun 2025 19:51
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Jun 20 23:28:00 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:25:11 2025
 Response via : Initial Calibration

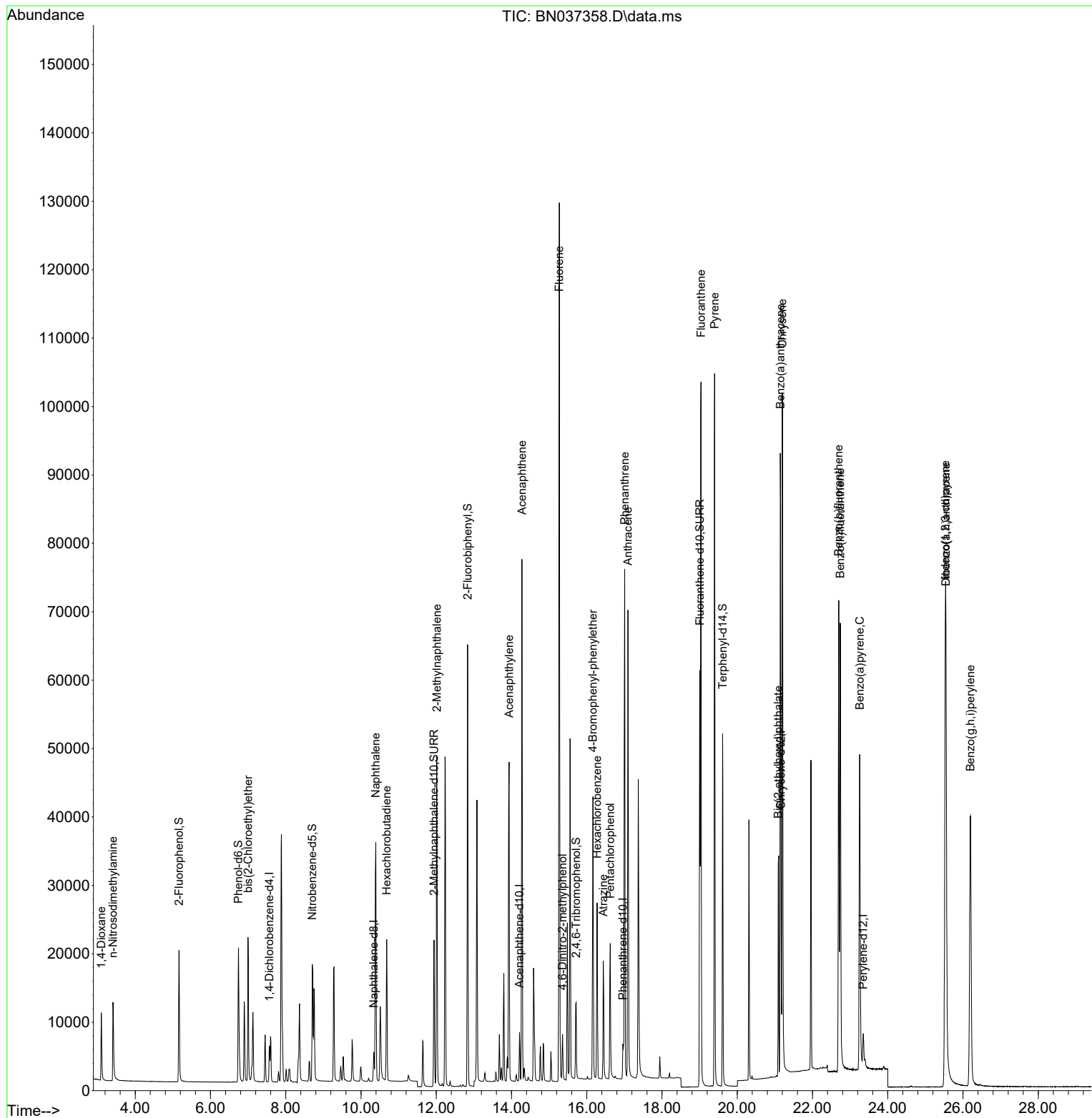
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	2553	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	5431	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	3830	0.400	ng	0.00
19) Phenanthrene-d10	16.959	188	7833	0.400	ng	#-0.01
29) Chrysene-d12	21.162	240	7155	0.400	ng	0.00
35) Perylene-d12	23.348	264	6736	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	16051	3.439	ng	0.00
5) Phenol-d6	6.744	99	17930	3.882	ng	0.00
8) Nitrobenzene-d5	8.707	82	15387	3.413	ng	-0.01
11) 2-Methylnaphthalene-d10	11.940	152	28839	3.282	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	7296	2.664	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	53666	3.194	ng	0.00
27) Fluoranthene-d10	19.003	212	72122	2.957	ng	0.00
31) Terphenyl-d14	19.611	244	53536	3.277	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.097	88	7556	3.351	ng	Qvalue 91
3) n-Nitrosodimethylamine	3.408	42	7228	2.753	ng	# 72
6) bis(2-Chloroethyl)ether	6.997	93	16052	3.972	ng	97
9) Naphthalene	10.394	128	45711	3.247	ng	# 86
10) Hexachlorobutadiene	10.682	225	16687	2.426	ng	# 99
12) 2-Methylnaphthalene	12.016	142	33783	3.412	ng	# 92
16) Acenaphthylene	13.935	152	52599	3.272	ng	98
17) Acenaphthene	14.277	154	34413	3.229	ng	98
18) Fluorene	15.271	166	49180	3.256	ng	100
20) 4,6-Dinitro-2-methylph...	15.357	198	6721	2.838	ng	# 44
21) 4-Bromophenyl-phenylether	16.165	248	18488	2.891	ng	96
22) Hexachlorobenzene	16.276	284	18573	2.784	ng	98
23) Atrazine	16.438	200	14961	2.988	ng	# 81
24) Pentachlorophenol	16.624	266	10110	2.761	ng	97
25) Phenanthrene	17.009	178	76487	3.455	ng	99
26) Anthracene	17.095	178	71218	3.446	ng	98
28) Fluoranthene	19.035	202	94745	3.129	ng	# 99
30) Pyrene	19.398	202	93984	3.430	ng	99
32) Benzo(a)anthracene	21.144	228	78532	3.401	ng	97
33) Chrysene	21.197	228	87474	2.987	ng	97
34) Bis(2-ethylhexyl)phtha...	21.090	149	30412	3.214	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.529	276	98025	3.433	ng	# 90
37) Benzo(b)fluoranthene	22.696	252	82568	3.456	ng	# 84
38) Benzo(k)fluoranthene	22.737	252	87144	3.359	ng	# 83
39) Benzo(a)pyrene	23.254	252	72643	3.323	ng	# 76
40) Dibenzo(a,h)anthracene	25.547	278	77899	3.426	ng	# 74
41) Benzo(g,h,i)perylene	26.199	276	84957	3.239	ng	93

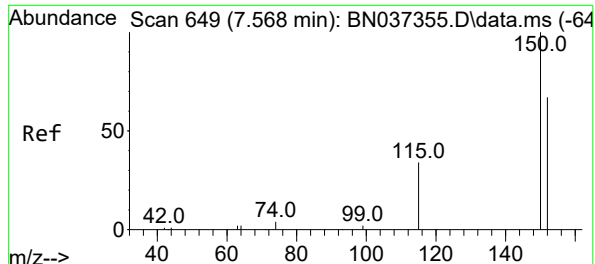
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037358.D
Acq On : 20 Jun 2025 19:51
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Jun 20 23:28:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration

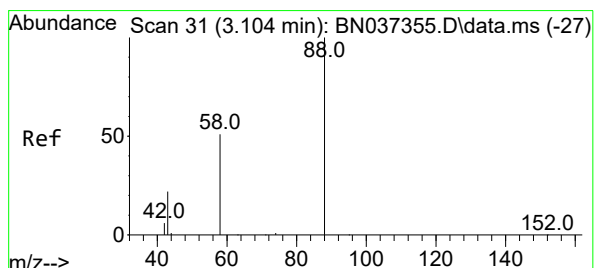
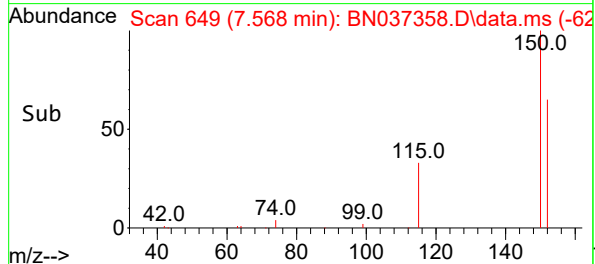
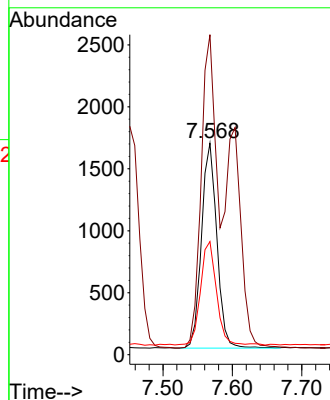
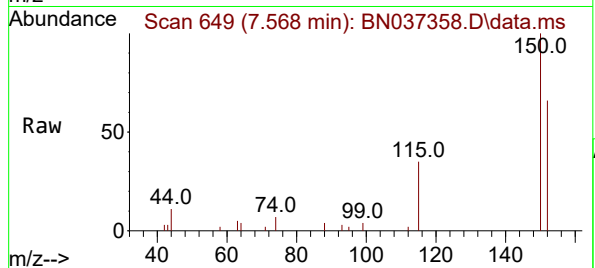




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

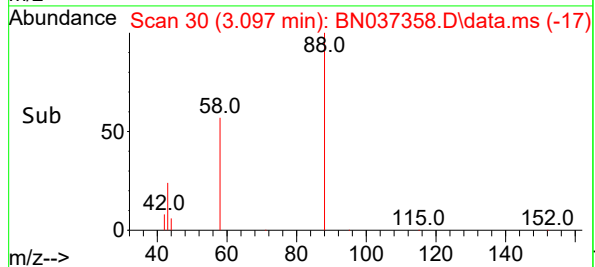
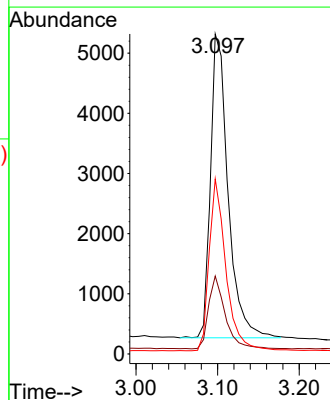
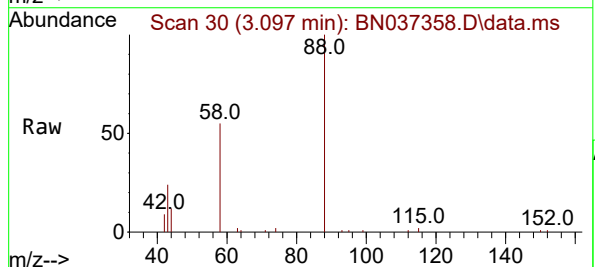
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 2553
Ion Ratio Lower Upper
152 100
150 151.3 112.7 169.1
115 53.5 45.9 68.9

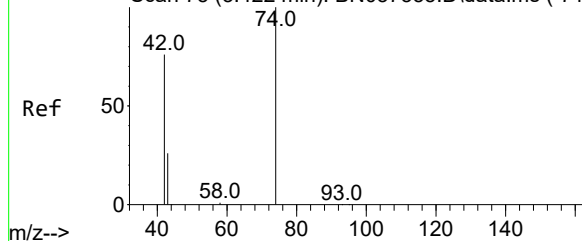


#2
1,4-Dioxane
Concen: 3.351 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion: 88 Resp: 7556
Ion Ratio Lower Upper
88 100
43 22.5 21.0 31.6
58 54.2 38.0 57.0



Abundance Scan 75 (3.422 min): BN037355.D\data.ms (-71)



#3

n-Nitrosodimethylamine

Concen: 2.753 ng

RT: 3.408 min Scan# 71

Delta R.T. -0.015 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

Instrument :

BNA_N

ClientSampleId :

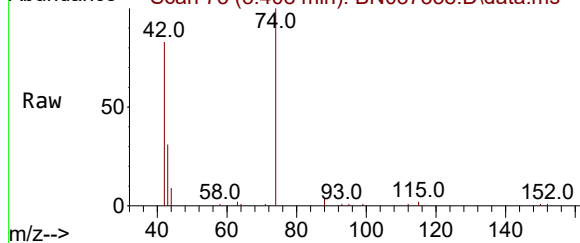
SSTDICC3.2

Tgt Ion: 42 Resp: 7228

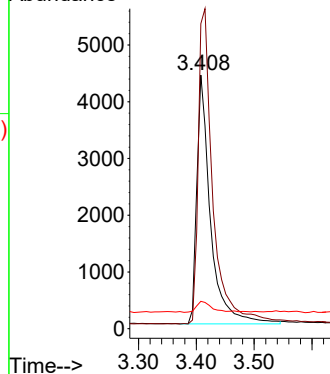
Ion Ratio Lower Upper

Ion	Ratio	Lower	Upper
42	100		
74	135.8	84.3	126.5
44	5.2	5.0	7.4

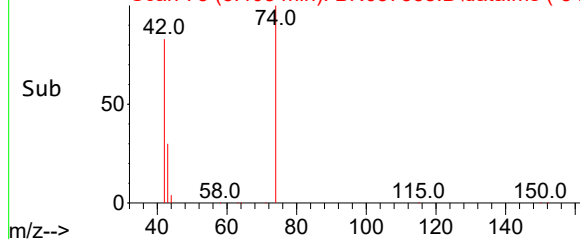
Abundance Scan 73 (3.408 min): BN037358.D\data.ms



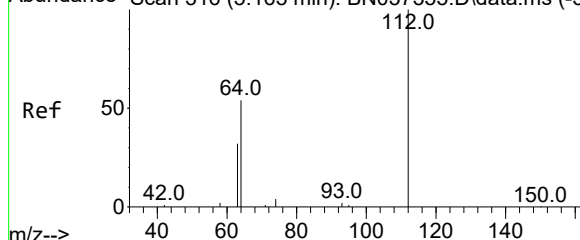
Abundance



Abundance Scan 73 (3.408 min): BN037358.D\data.ms (-54)



Abundance Scan 316 (5.163 min): BN037355.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 3.439 ng

RT: 5.163 min Scan# 316

Delta R.T. -0.000 min

Lab File: BN037358.D

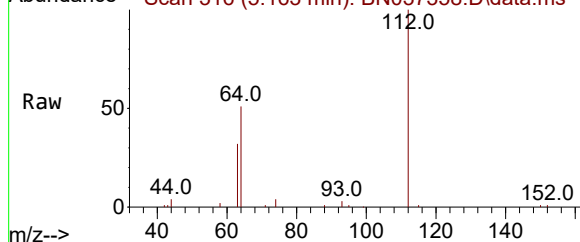
Acq: 20 Jun 2025 19:51

Tgt Ion: 112 Resp: 16051

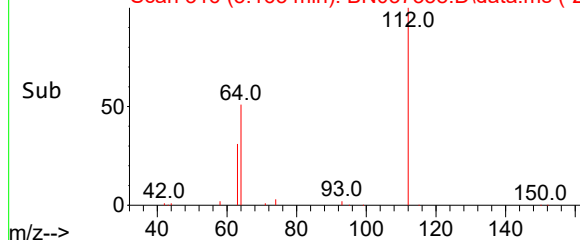
Ion Ratio Lower Upper

Ion	Ratio	Lower	Upper
112	100		
64	50.8	38.7	58.1
63	31.2	26.4	39.6

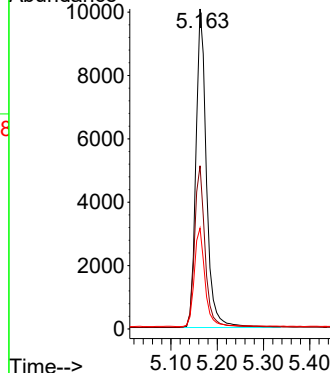
Abundance Scan 316 (5.163 min): BN037358.D\data.ms

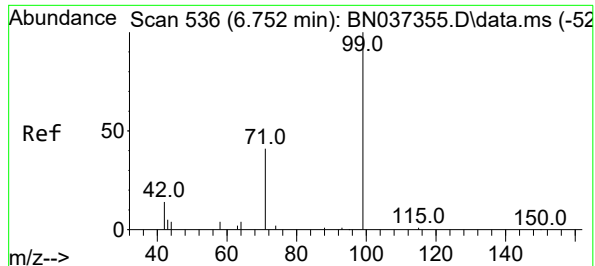


Abundance Scan 316 (5.163 min): BN037358.D\data.ms (-28)



Abundance

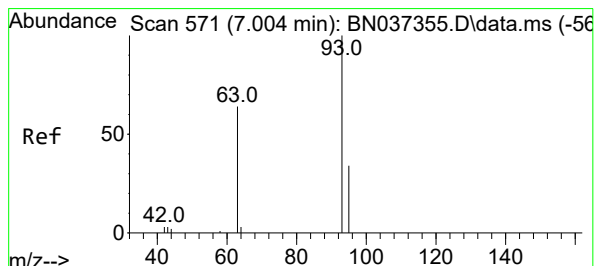
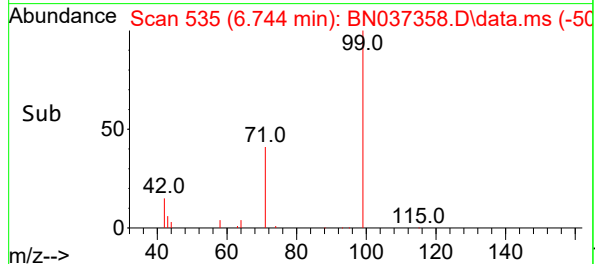
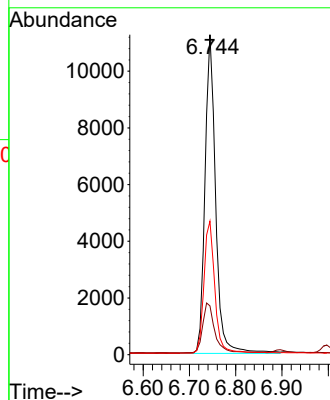
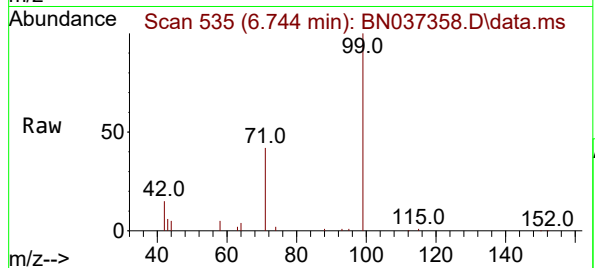




#5
Phenol-d6
Concen: 3.882 ng
RT: 6.744 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

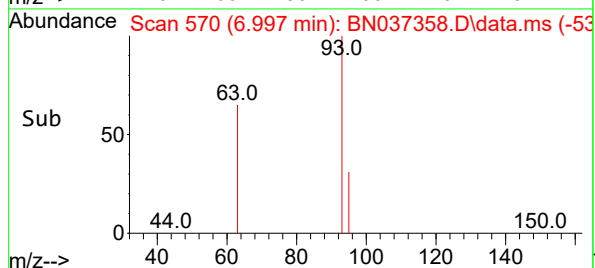
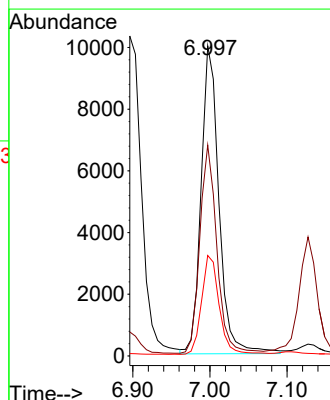
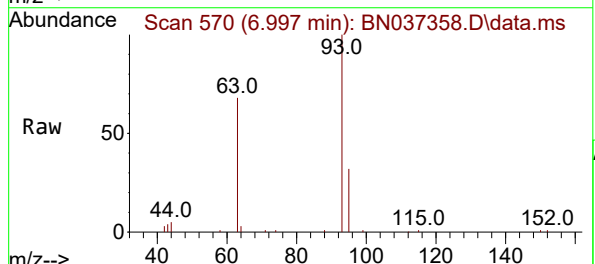
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

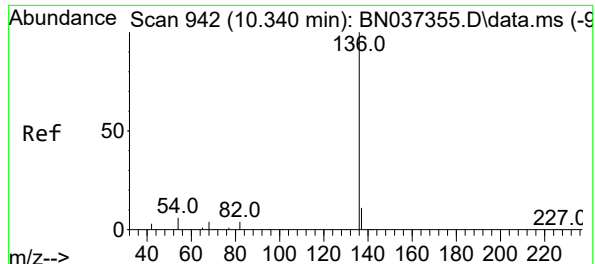
Tgt Ion: 99 Resp: 17930
Ion Ratio Lower Upper
99 100
42 17.7 19.8 29.8#
71 42.9 42.6 64.0



#6
bis(2-Chloroethyl)ether
Concen: 3.972 ng
RT: 6.997 min Scan# 570
Delta R.T. -0.007 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion: 93 Resp: 16052
Ion Ratio Lower Upper
93 100
63 64.4 53.2 79.8
95 31.6 27.3 40.9

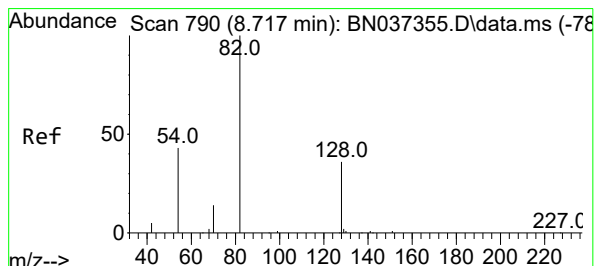
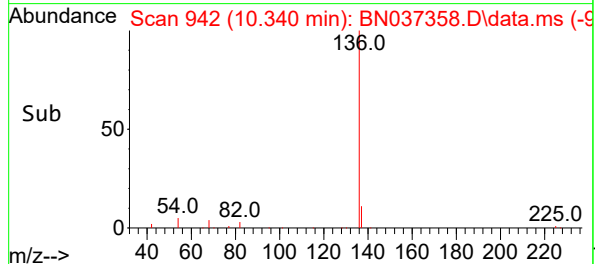
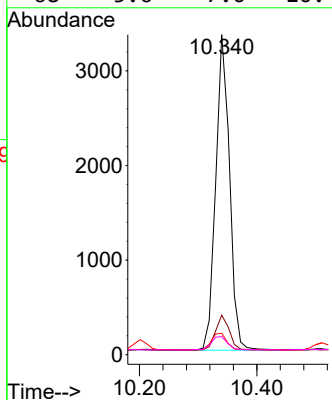
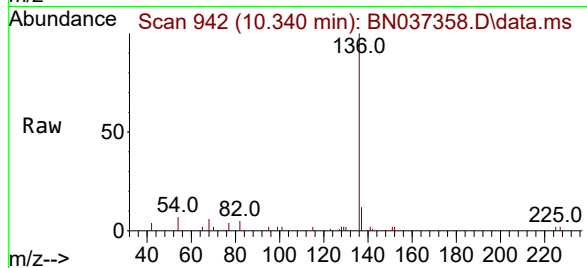




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

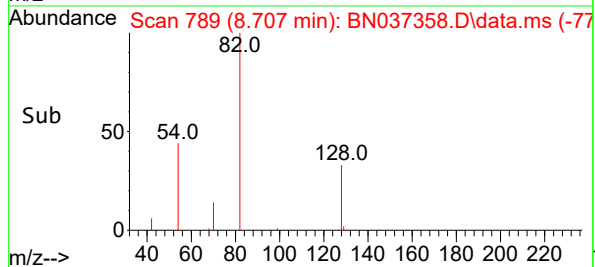
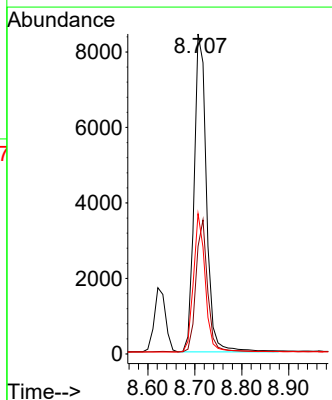
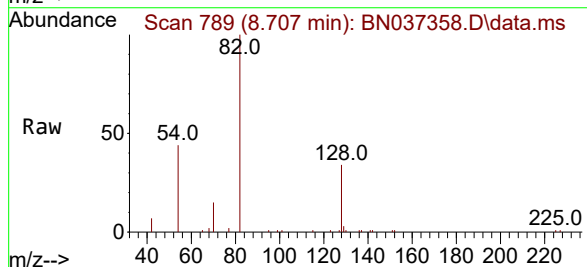
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

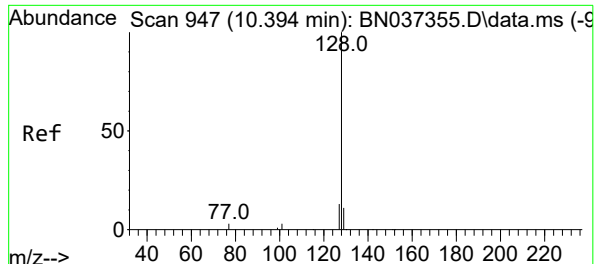
Tgt Ion:	136	Resp:	5431
Ion	Ratio	Lower	Upper
136	100		
137	12.4	12.2	18.2
54	6.7	8.8	13.2#
68	5.6	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 3.413 ng
RT: 8.707 min Scan# 789
Delta R.T. -0.011 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:	82	Resp:	15387
Ion	Ratio	Lower	Upper
82	100		
128	33.6	42.5	63.7#
54	43.9	43.2	64.8

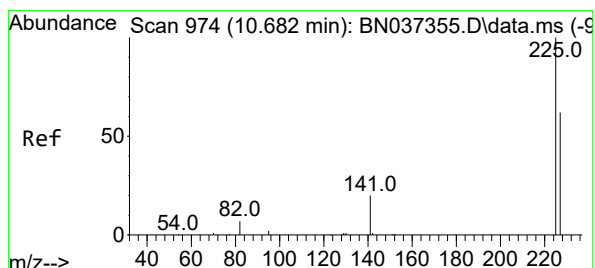
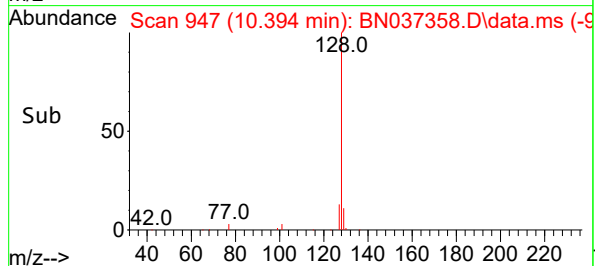
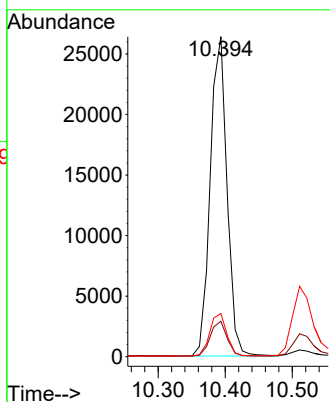
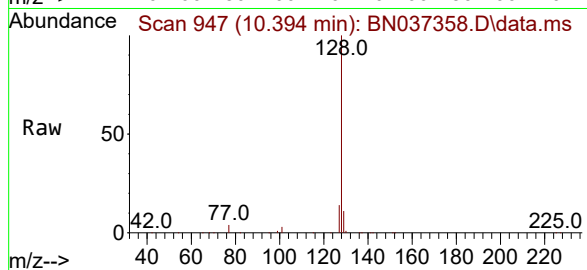




#9
Naphthalene
Concen: 3.247 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

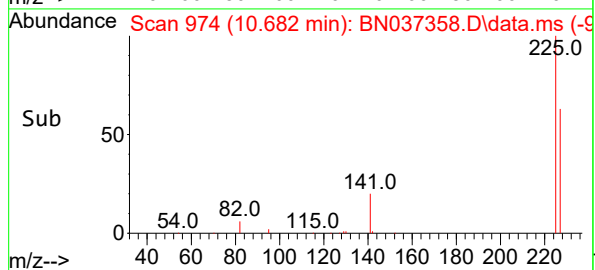
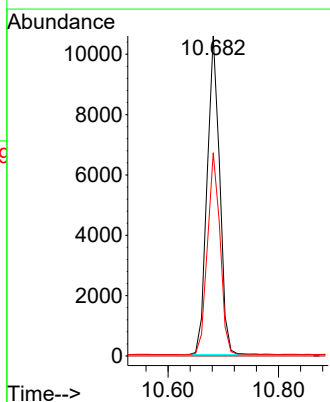
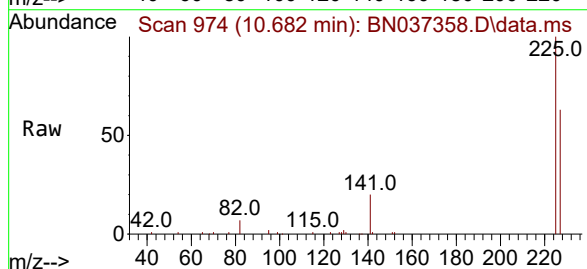
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

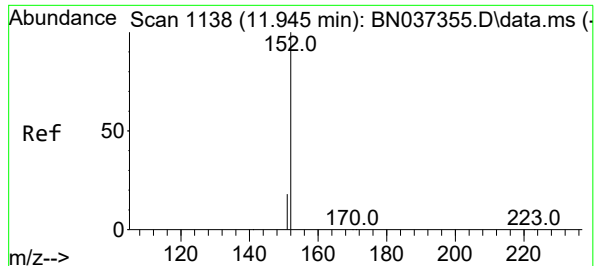
Tgt Ion:128 Resp: 45711
Ion Ratio Lower Upper
128 100
129 11.1 14.0 21.0#
127 13.5 15.8 23.8#



#10
Hexachlorobutadiene
Concen: 2.426 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:225 Resp: 16687
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.8 50.3 75.5

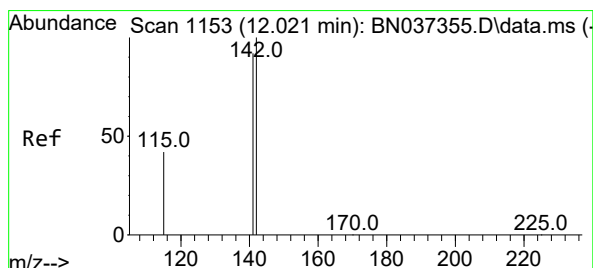
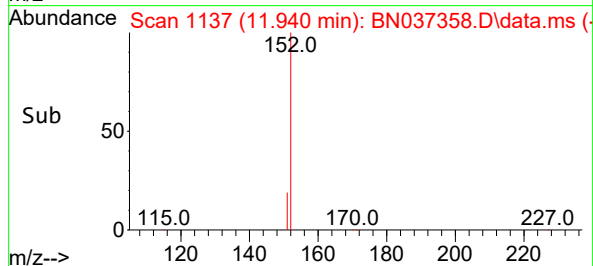
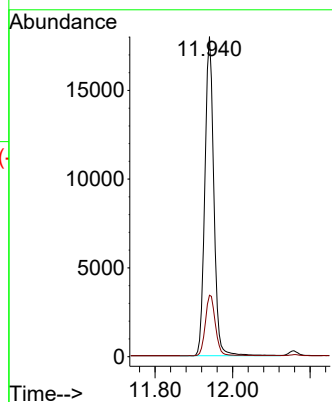
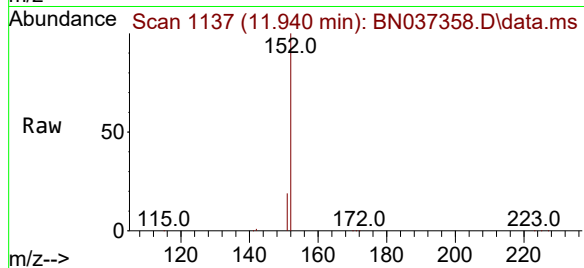




#11
2-Methylnaphthalene-d10
Concen: 3.282 ng
RT: 11.940 min Scan# 1138
Delta R.T. -0.005 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

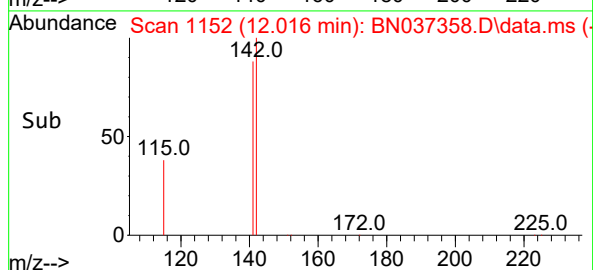
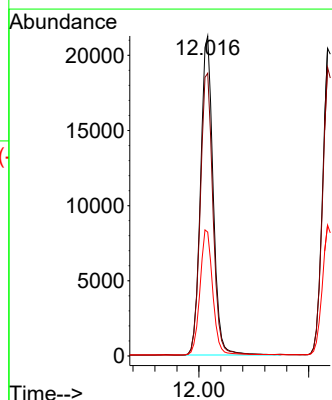
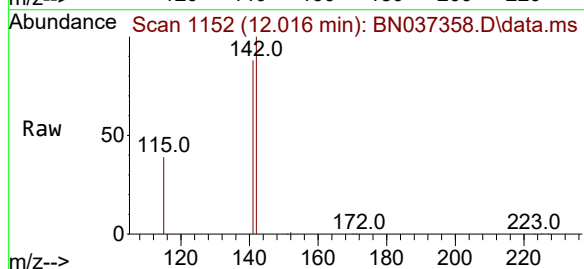
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

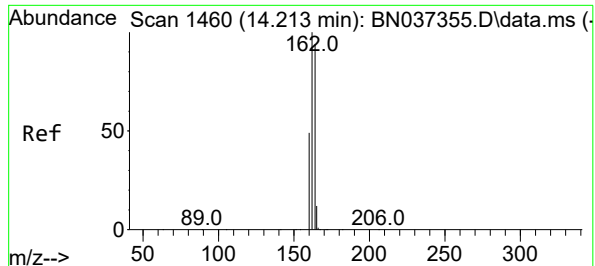
Tgt Ion:152 Resp: 28839
Ion Ratio Lower Upper
152 100
151 21.3 17.4 26.0



#12
2-Methylnaphthalene
Concen: 3.412 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:142 Resp: 33783
Ion Ratio Lower Upper
142 100
141 88.4 70.2 105.2
115 38.7 43.0 64.4#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.213 min Scan# 1460

Delta R.T. -0.000 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

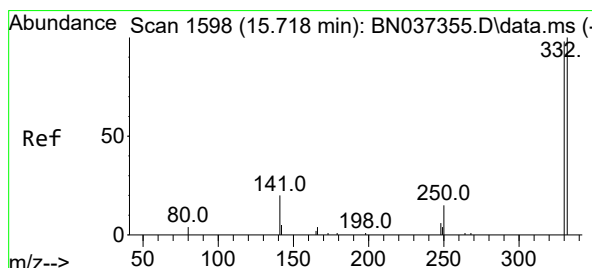
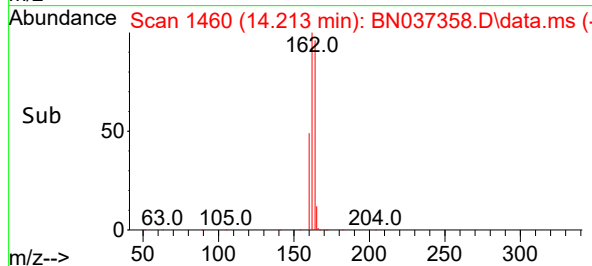
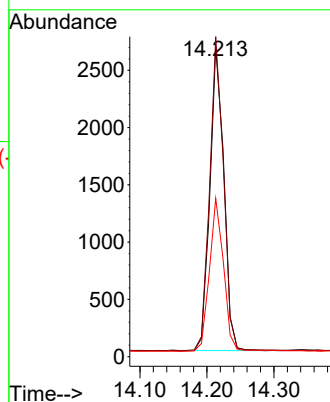
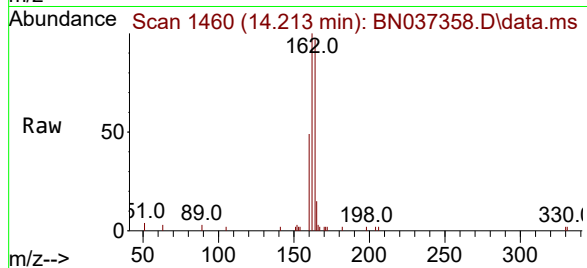
Tgt Ion:164 Resp: 3830

Ion Ratio Lower Upper

164 100

162 103.5 81.5 122.3

160 51.1 43.0 64.4



#14

2,4,6-Tribromophenol

Concen: 2.664 ng

RT: 15.718 min Scan# 1598

Delta R.T. -0.000 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

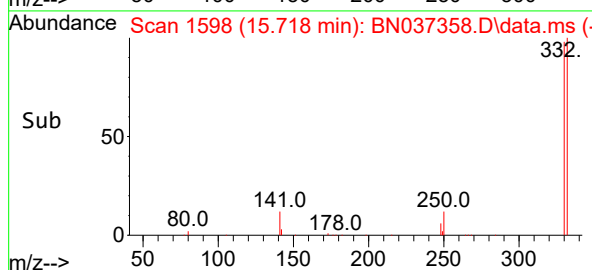
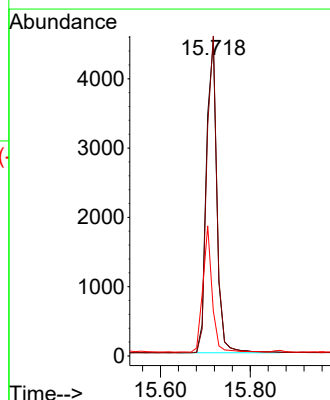
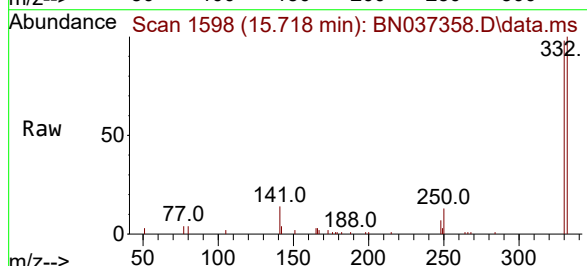
Tgt Ion:330 Resp: 7296

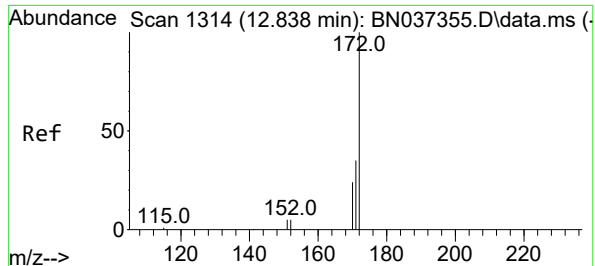
Ion Ratio Lower Upper

330 100

332 98.6 78.4 117.6

141 35.6 24.4 36.6

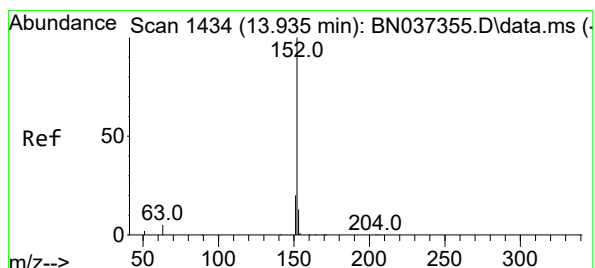
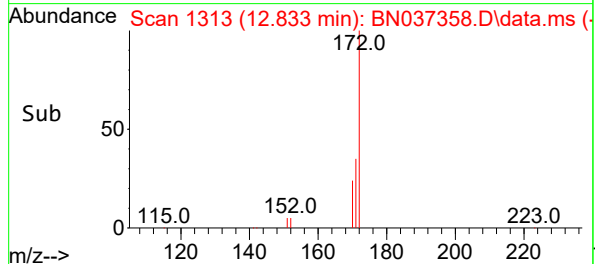
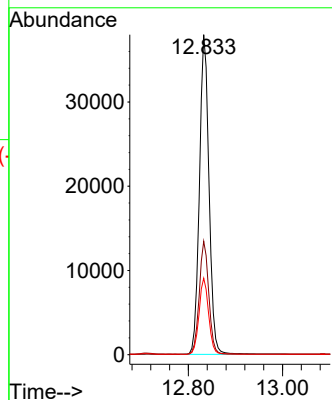
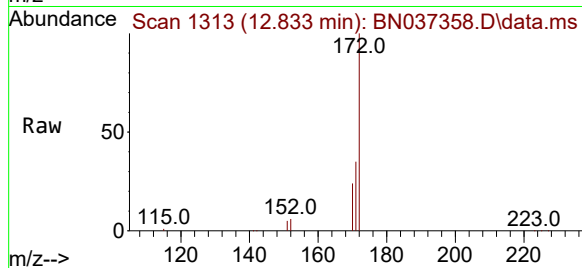




#15
2-Fluorobiphenyl
Concen: 3.194 ng
RT: 12.833 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

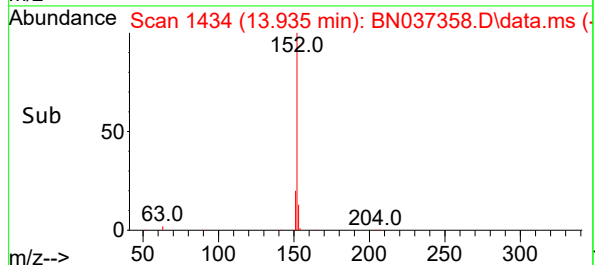
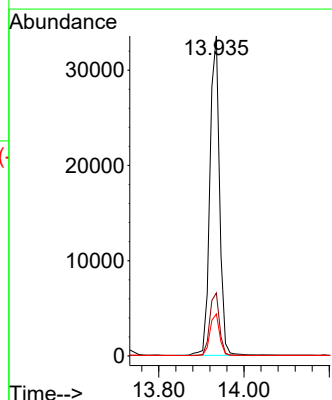
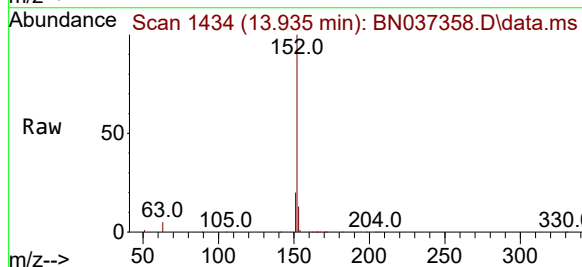
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

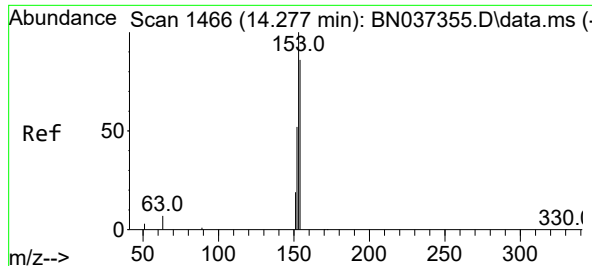
Tgt Ion:172 Resp: 53666
Ion Ratio Lower Upper
172 100
171 35.5 30.8 46.2
170 23.9 21.9 32.9



#16
Acenaphthylene
Concen: 3.272 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:152 Resp: 52599
Ion Ratio Lower Upper
152 100
151 19.8 16.6 24.8
153 13.1 10.2 15.2

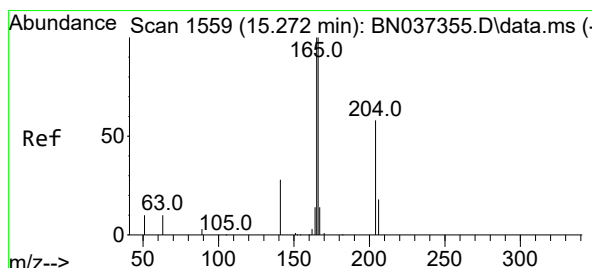
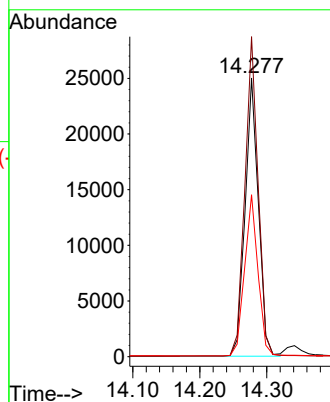
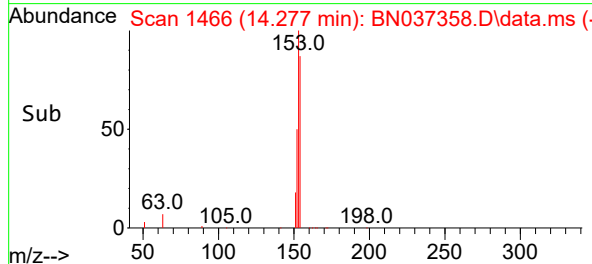
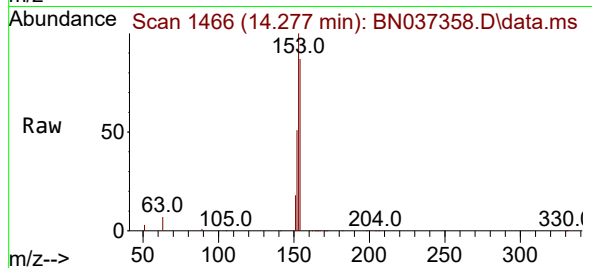




#17
Acenaphthene
Concen: 3.229 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

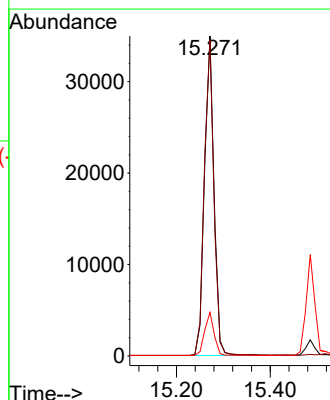
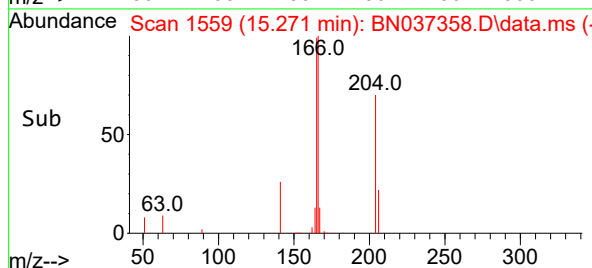
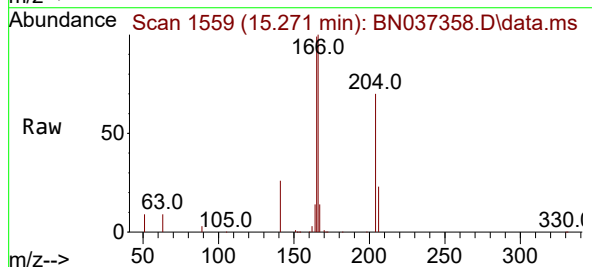
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

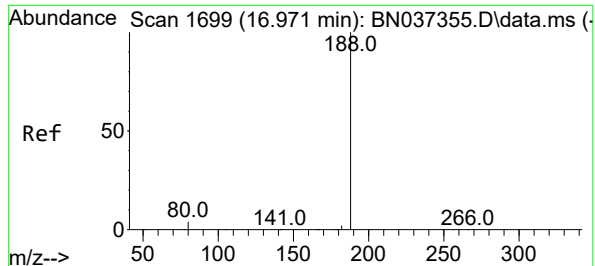
Tgt Ion:154 Resp: 34413
Ion Ratio Lower Upper
154 100
153 114.5 93.1 139.7
152 58.7 48.6 73.0



#18
Fluorene
Concen: 3.256 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:166 Resp: 49180
Ion Ratio Lower Upper
166 100
165 99.3 79.5 119.3
167 13.5 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.959 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

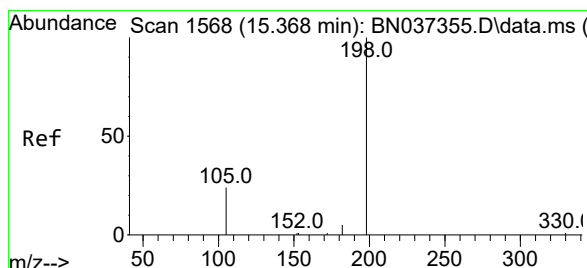
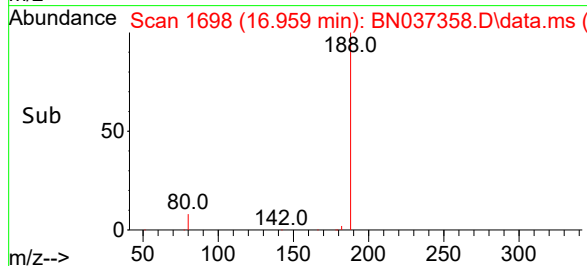
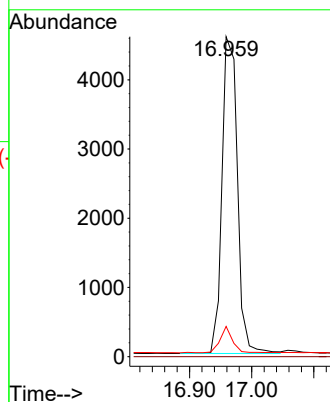
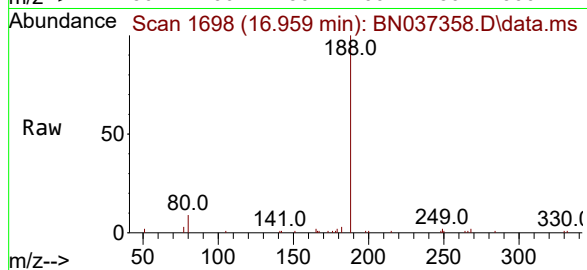
Tgt Ion:188 Resp: 7833

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.4 6.2 9.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 2.838 ng

RT: 15.357 min Scan# 1567

Delta R.T. -0.011 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

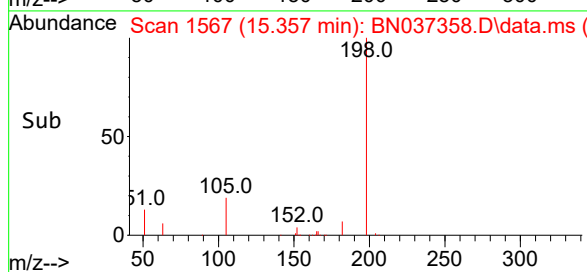
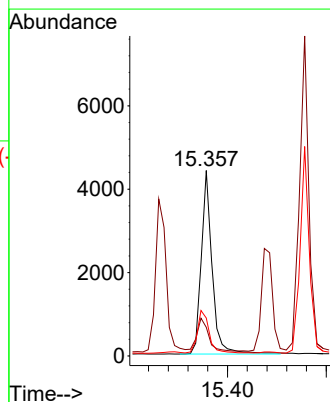
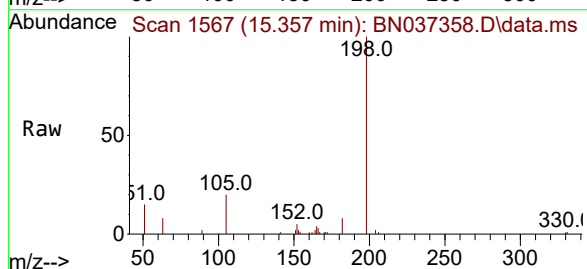
Tgt Ion:198 Resp: 6721

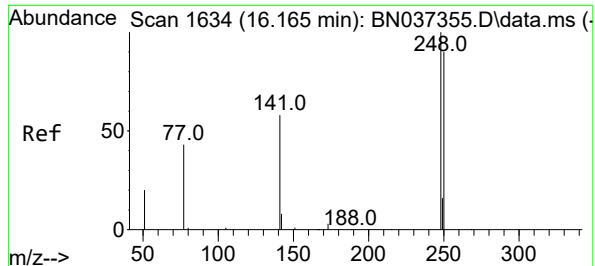
Ion Ratio Lower Upper

198 100

51 15.4 51.4 77.0#

105 20.5 45.5 68.3#

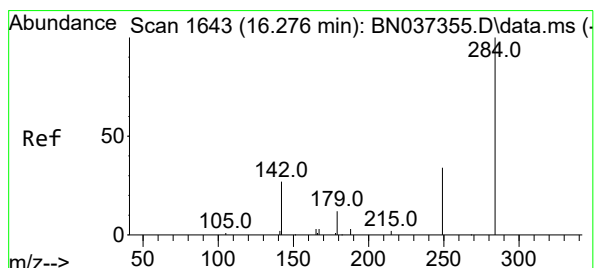
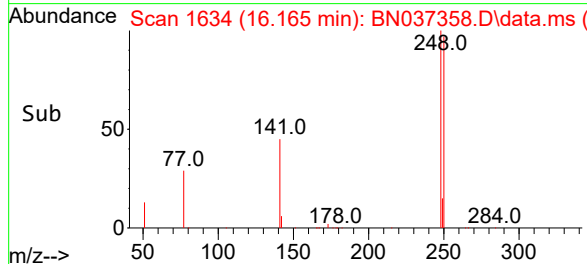
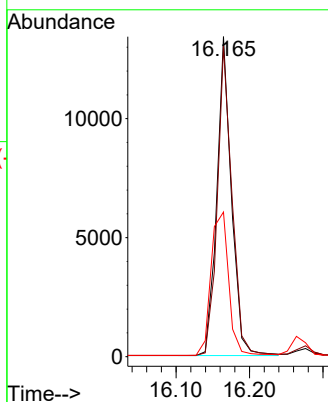
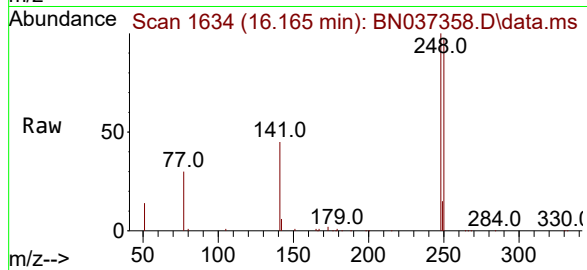




#21
4-Bromophenyl-phenylether
Concen: 2.891 ng
RT: 16.165 min Scan# 1634
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

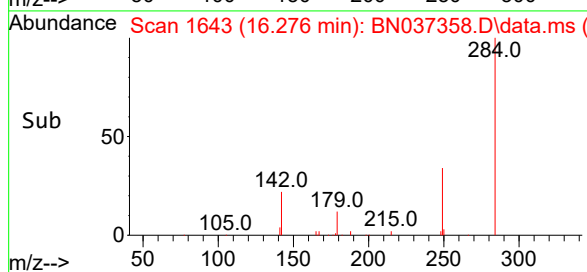
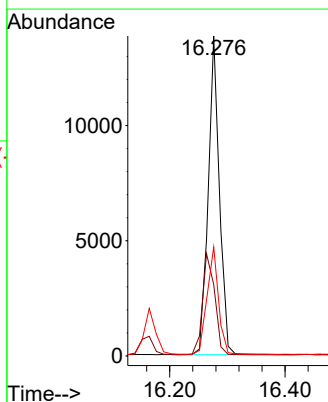
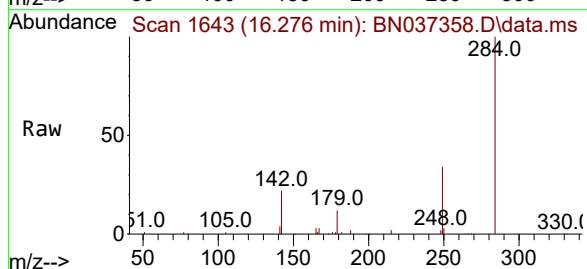
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

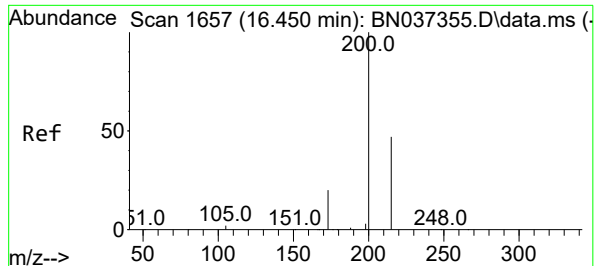
Tgt Ion:248 Resp: 18488
Ion Ratio Lower Upper
248 100
250 96.9 80.4 120.6
141 45.2 33.3 49.9



#22
Hexachlorobenzene
Concen: 2.784 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:284 Resp: 18573
Ion Ratio Lower Upper
284 100
142 34.8 27.0 40.6
249 34.5 28.8 43.2

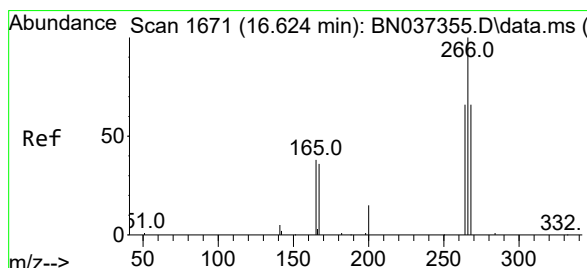
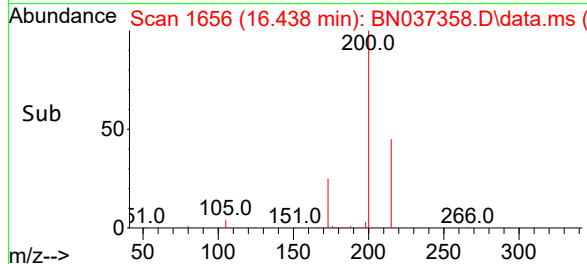
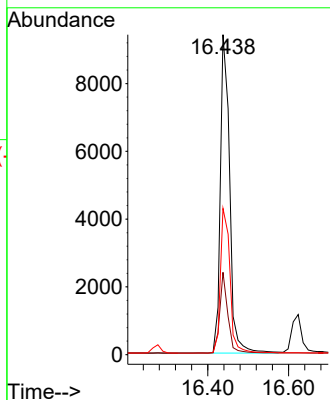
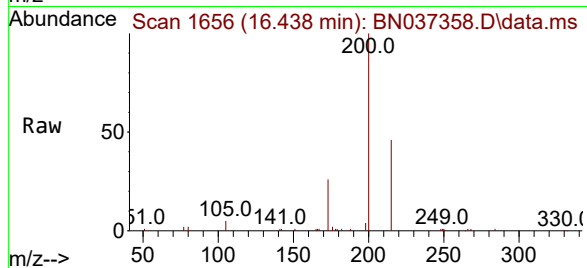




#23
Atrazine
Concen: 2.988 ng
RT: 16.438 min Scan# 1656
Delta R.T. -0.012 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

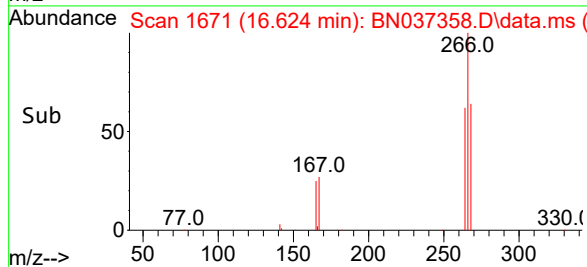
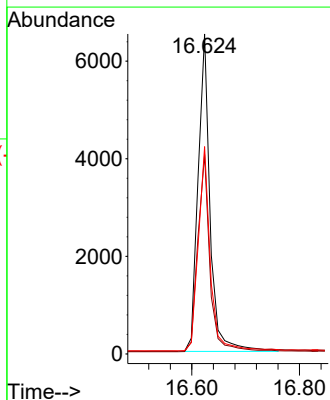
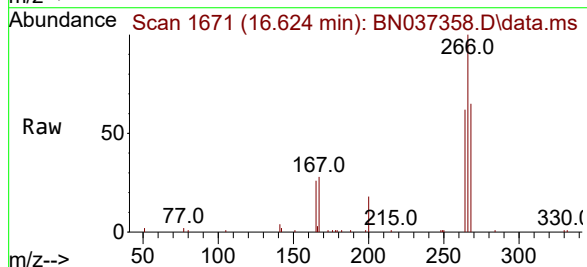
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

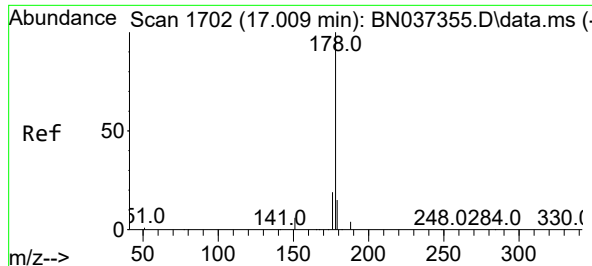
Tgt Ion:200 Resp: 14961
Ion Ratio Lower Upper
200 100
173 25.8 29.2 43.8#
215 45.7 48.8 73.2#



#24
Pentachlorophenol
Concen: 2.761 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:266 Resp: 10110
Ion Ratio Lower Upper
266 100
264 62.8 50.3 75.5
268 64.4 55.3 82.9





#25

Phenanthrene

Concen: 3.455 ng

RT: 17.009 min Scan# 1709

Delta R.T. -0.000 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

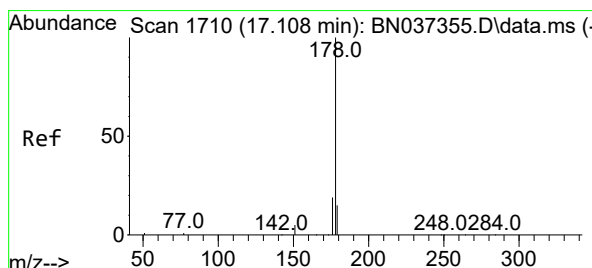
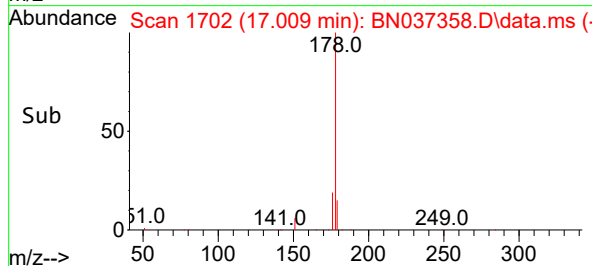
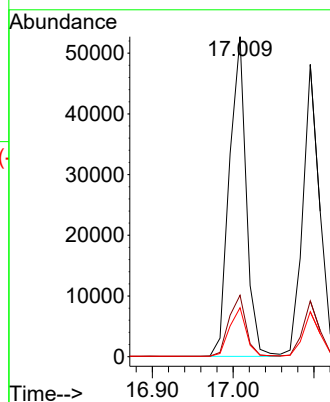
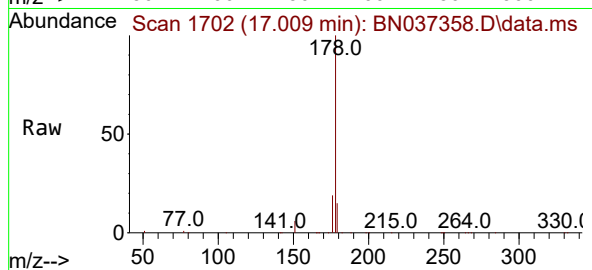
Tgt Ion:178 Resp: 76487

Ion Ratio Lower Upper

178 100

176 19.4 15.2 22.8

179 15.2 12.9 19.3



#26

Anthracene

Concen: 3.446 ng

RT: 17.095 min Scan# 1709

Delta R.T. -0.012 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

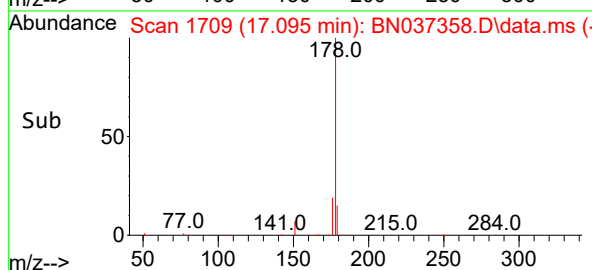
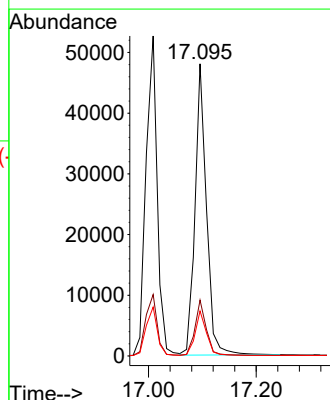
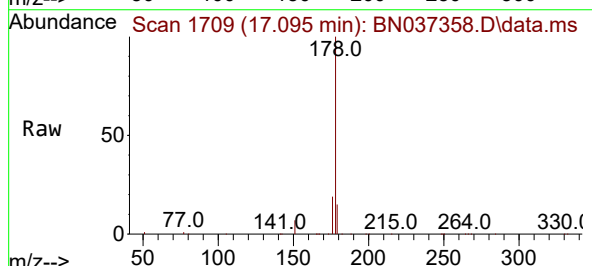
Tgt Ion:178 Resp: 71218

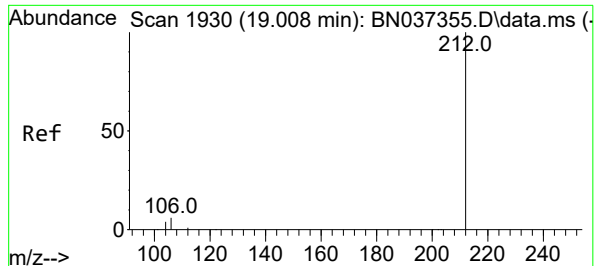
Ion Ratio Lower Upper

178 100

176 18.8 14.7 22.1

179 15.3 13.0 19.6





#27

Fluoranthene-d10

Concen: 2.957 ng

RT: 19.003 min Scan# 1929

Delta R.T. -0.005 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

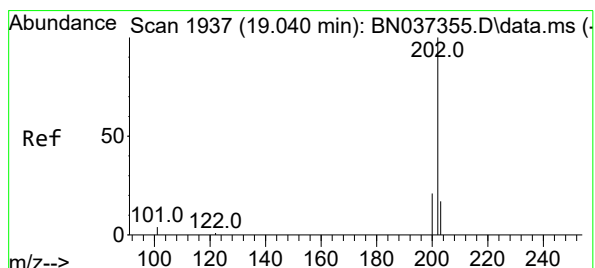
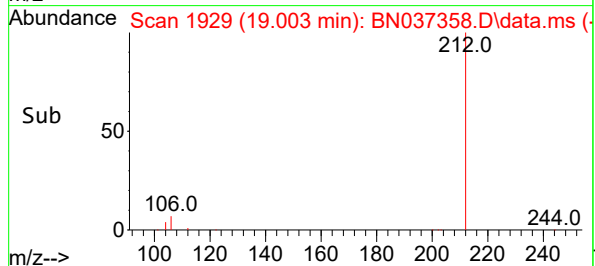
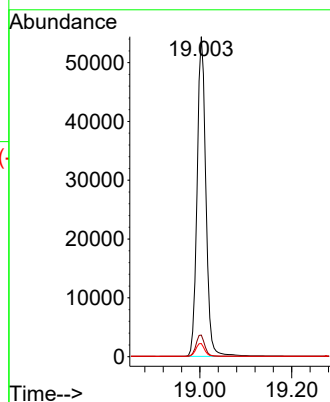
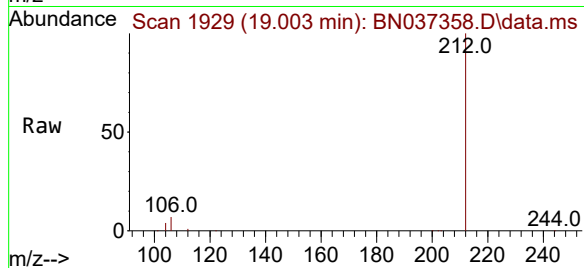
Tgt Ion:212 Resp: 72122

Ion Ratio Lower Upper

212 100

106 6.8 3.0 4.4#

104 4.1 2.0 3.0#



#28

Fluoranthene

Concen: 3.129 ng

RT: 19.035 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

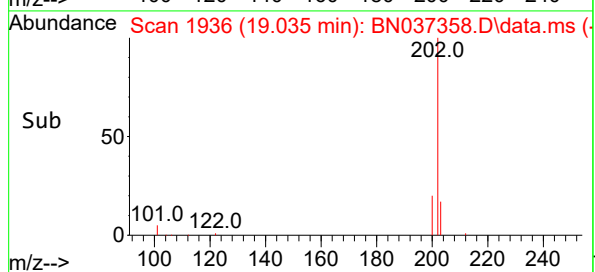
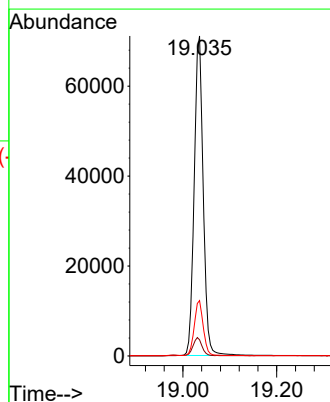
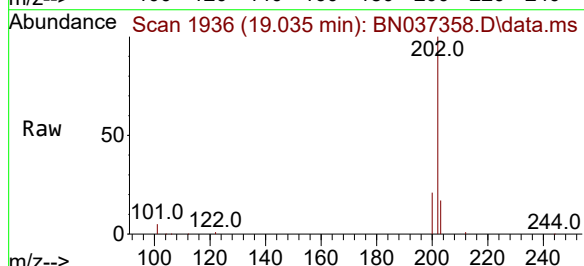
Tgt Ion:202 Resp: 94745

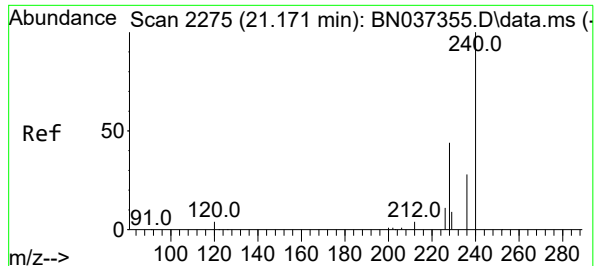
Ion Ratio Lower Upper

202 100

101 5.9 3.0 4.6#

203 17.0 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

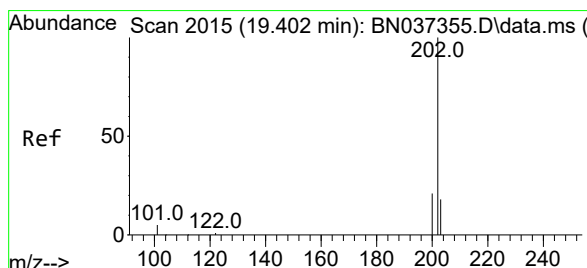
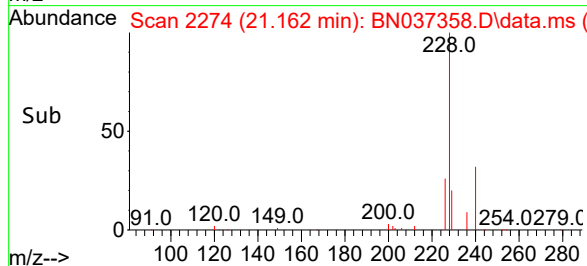
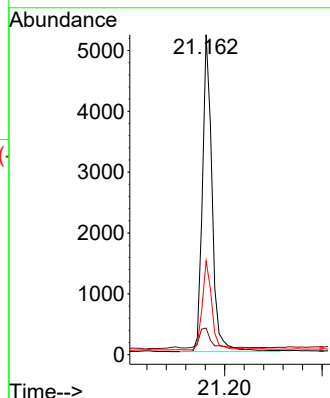
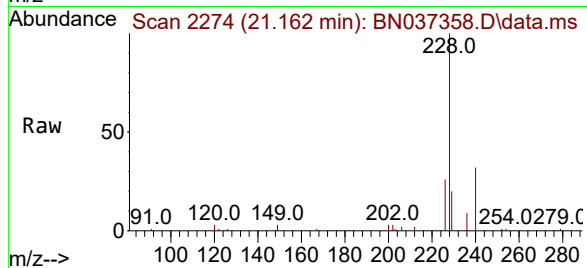
Tgt Ion:240 Resp: 7155

Ion Ratio Lower Upper

240 100

120 8.3 7.5 11.3

236 29.3 24.9 37.3



#30

Pyrene

Concen: 3.430 ng

RT: 19.398 min Scan# 2014

Delta R.T. -0.005 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

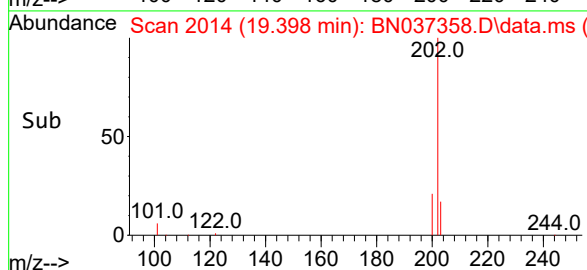
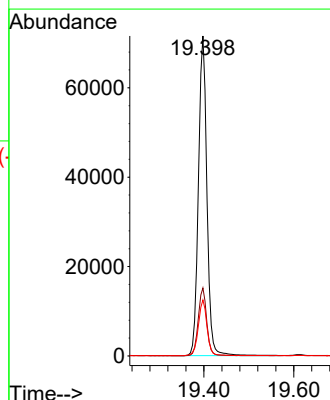
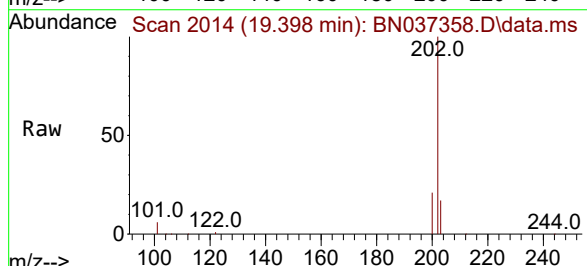
Tgt Ion:202 Resp: 93984

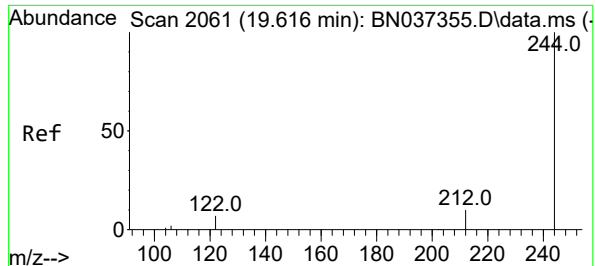
Ion Ratio Lower Upper

202 100

200 21.2 16.8 25.2

203 17.8 14.5 21.7

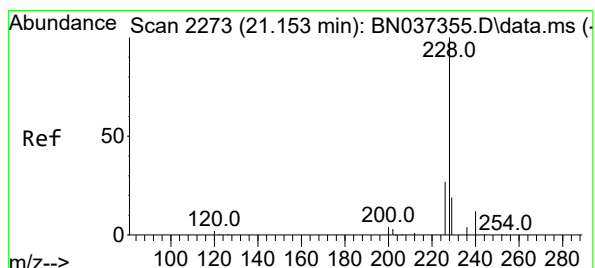
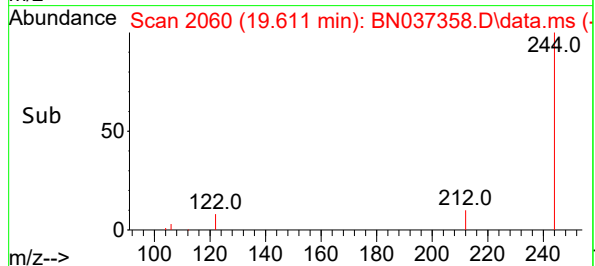
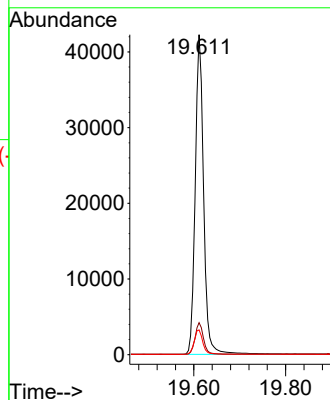
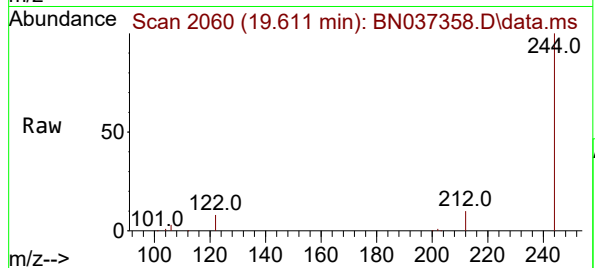




#31
Terphenyl-d14
Concen: 3.277 ng
RT: 19.611 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

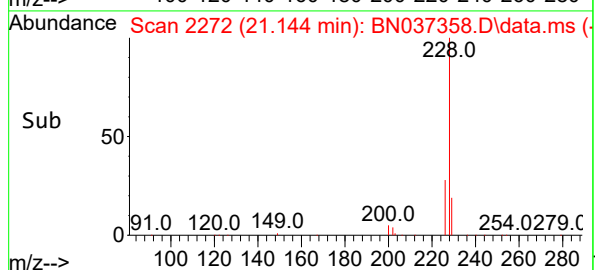
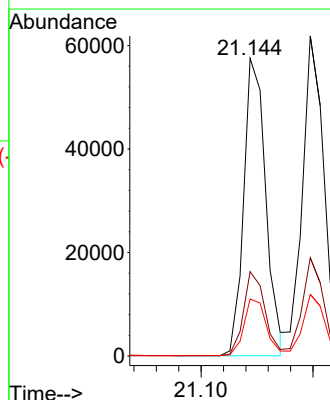
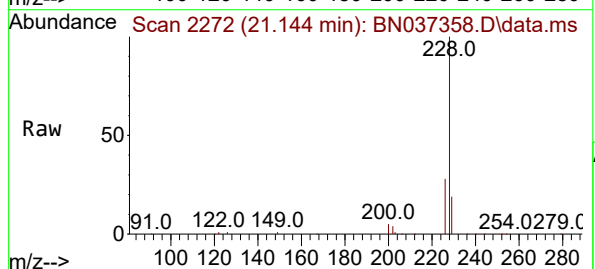
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

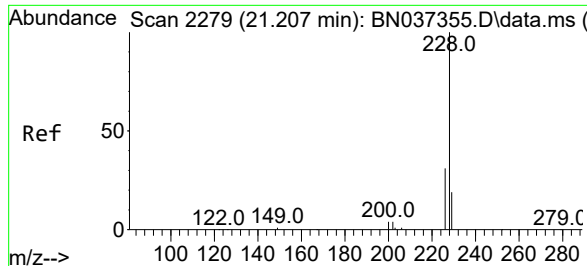
Tgt Ion:244 Resp: 53536
Ion Ratio Lower Upper
244 100
212 10.0 11.1 16.7#
122 7.7 7.2 10.8



#32
Benzo(a)anthracene
Concen: 3.401 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.009 min
Lab File: BN037358.D
Acq: 20 Jun 2025 19:51

Tgt Ion:228 Resp: 78532
Ion Ratio Lower Upper
228 100
226 28.4 23.0 34.4
229 19.1 17.4 26.0





#33

Chrysene

Concen: 2.987 ng

RT: 21.197 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

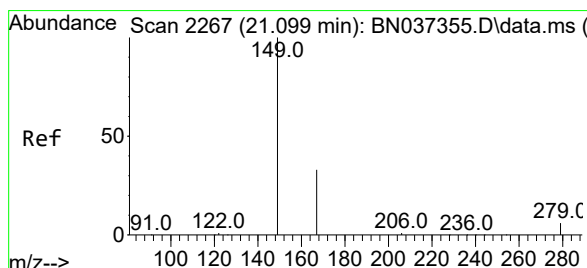
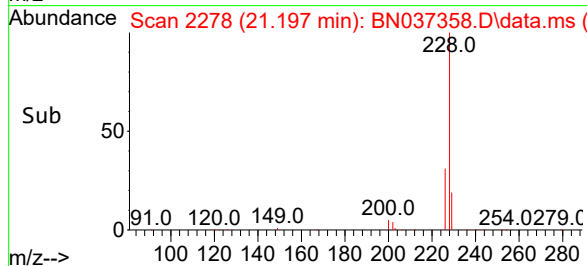
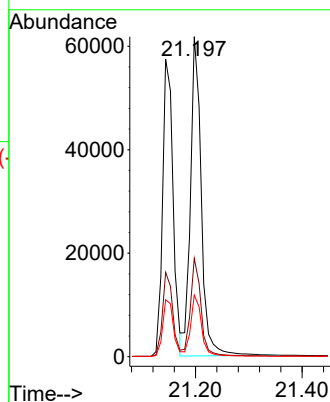
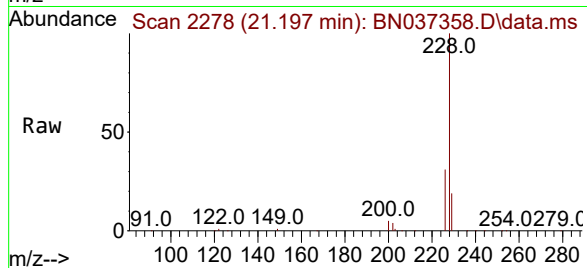
Tgt Ion:228 Resp: 87474

Ion Ratio Lower Upper

228 100

226 30.7 25.4 38.2

229 19.3 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.214 ng

RT: 21.090 min Scan# 2266

Delta R.T. -0.009 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

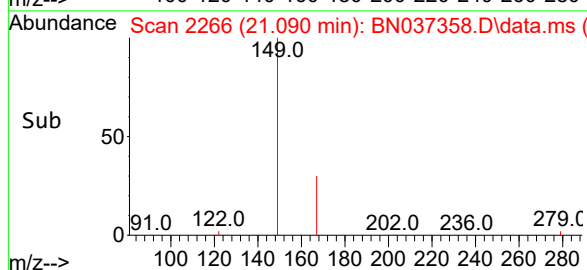
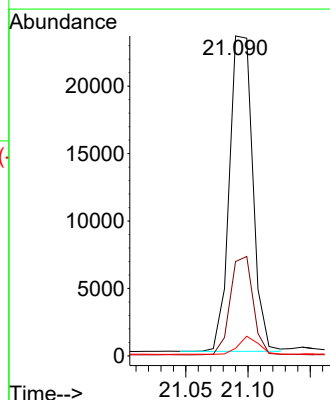
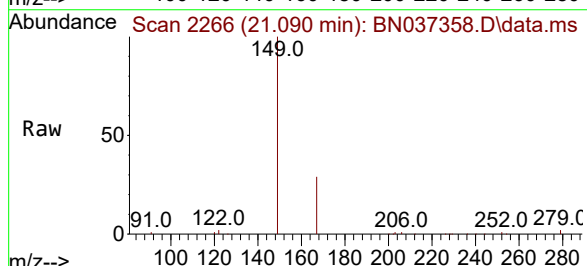
Tgt Ion:149 Resp: 30412

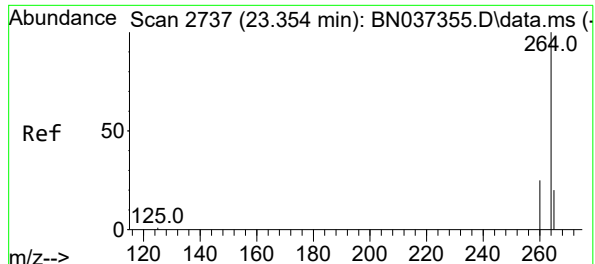
Ion Ratio Lower Upper

149 100

167 30.6 24.6 37.0

279 5.0 6.5 9.7#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.348 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

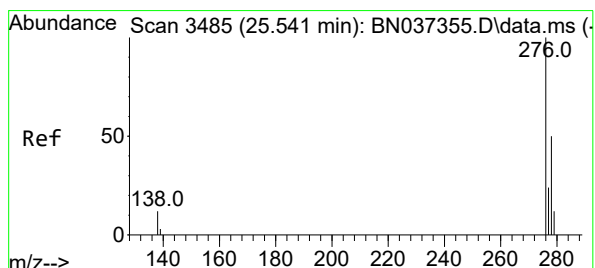
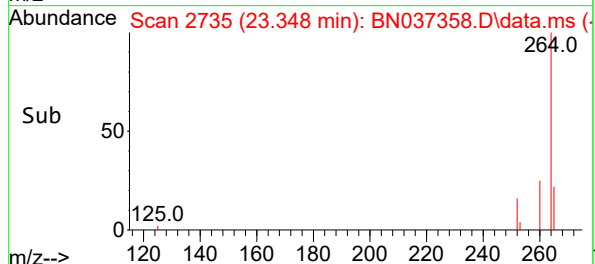
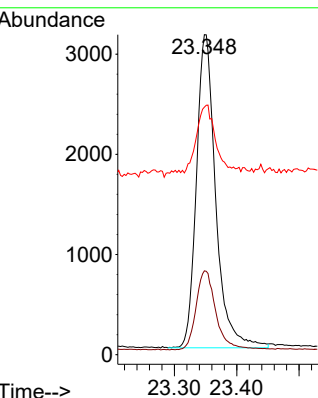
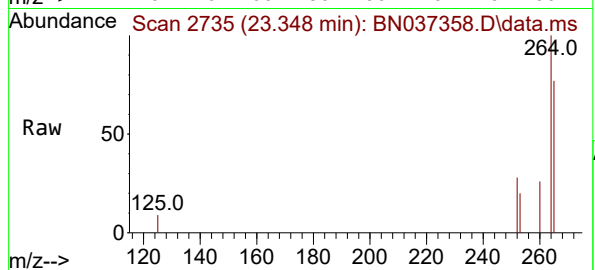
Tgt Ion:264 Resp: 6736

Ion Ratio Lower Upper

264 100

260 26.2 21.4 32.2

265 77.3 71.4 107.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.433 ng

RT: 25.529 min Scan# 3481

Delta R.T. -0.012 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

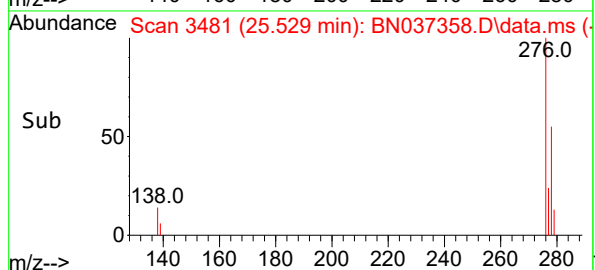
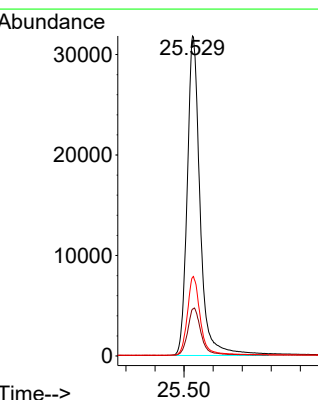
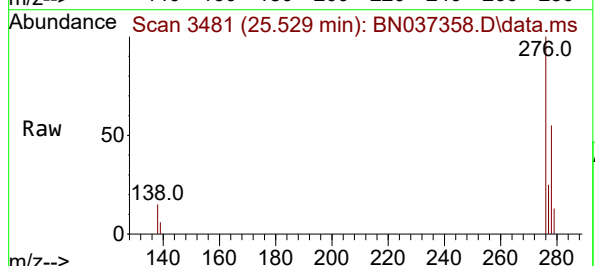
Tgt Ion:276 Resp: 98025

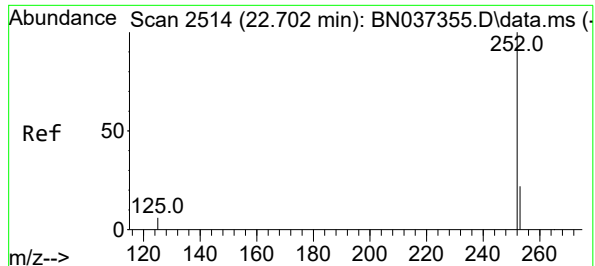
Ion Ratio Lower Upper

276 100

138 15.2 2.2 3.2#

277 24.7 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 3.456 ng

RT: 22.696 min Scan# 2512

Delta R.T. -0.006 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

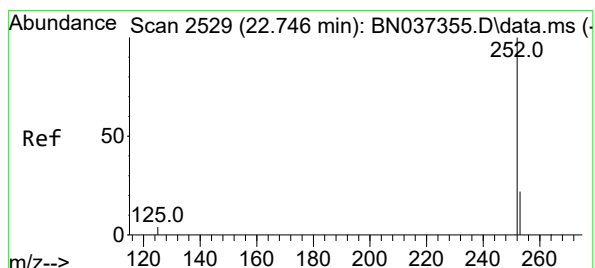
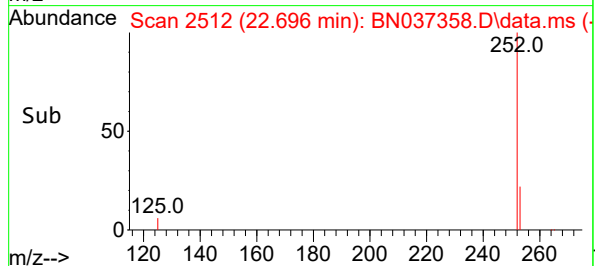
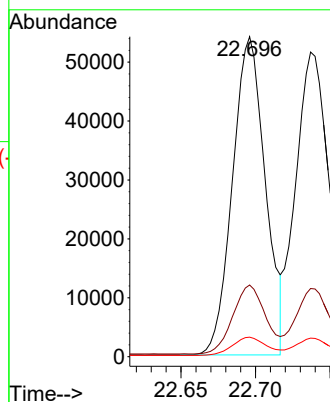
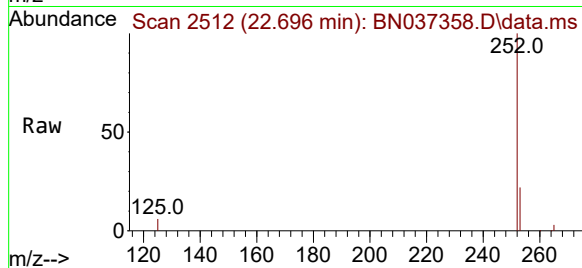
Tgt Ion:252 Resp: 82568

Ion Ratio Lower Upper

252 100

253 22.4 26.6 40.0#

125 6.1 6.1 9.1



#38

Benzo(k)fluoranthene

Concen: 3.359 ng

RT: 22.737 min Scan# 2526

Delta R.T. -0.009 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

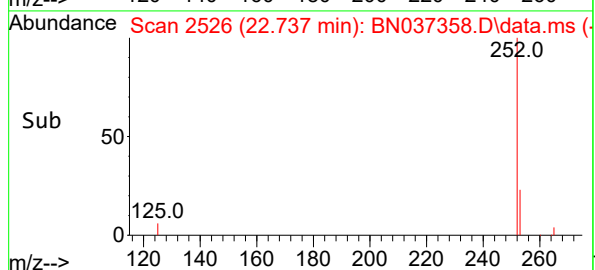
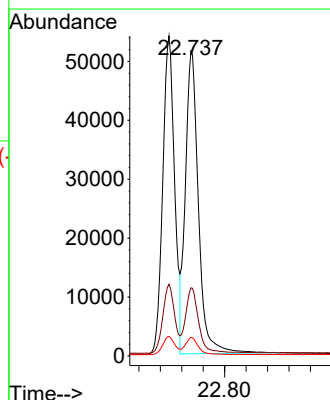
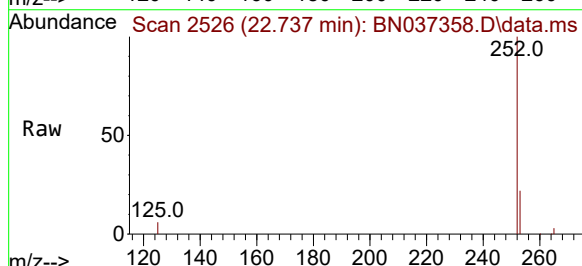
Tgt Ion:252 Resp: 87144

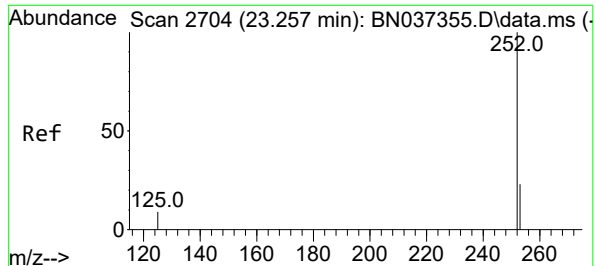
Ion Ratio Lower Upper

252 100

253 22.4 26.7 40.1#

125 6.1 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 3.323 ng

RT: 23.254 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

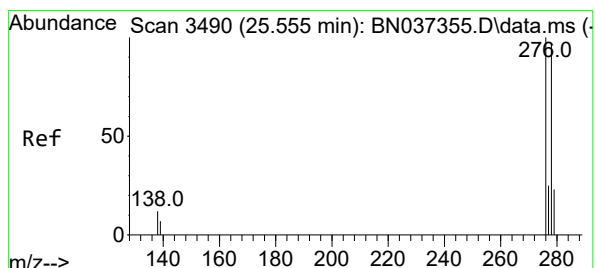
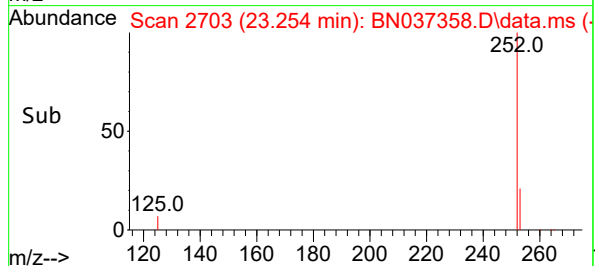
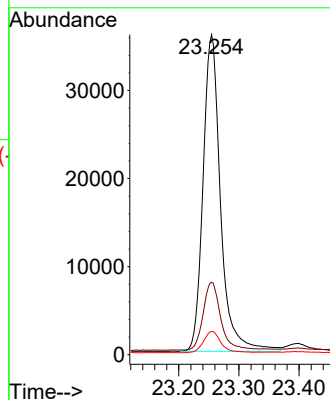
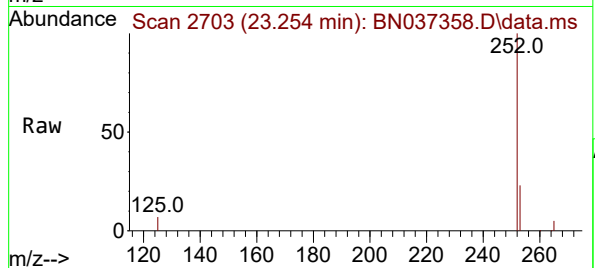
Tgt Ion:252 Resp: 72643

Ion Ratio Lower Upper

252 100

253 22.7 31.6 47.4#

125 7.2 8.4 12.6#



#40

Dibenzo(a,h)anthracene

Concen: 3.426 ng

RT: 25.547 min Scan# 3487

Delta R.T. -0.009 min

Lab File: BN037358.D

Acq: 20 Jun 2025 19:51

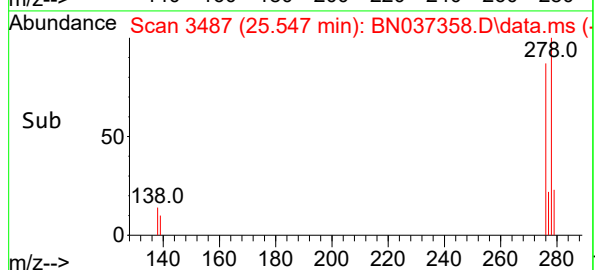
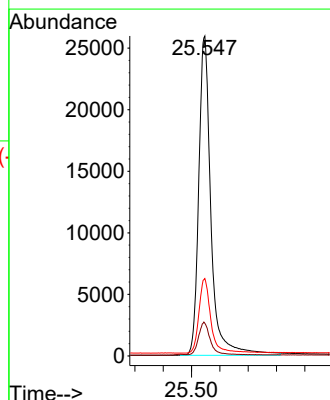
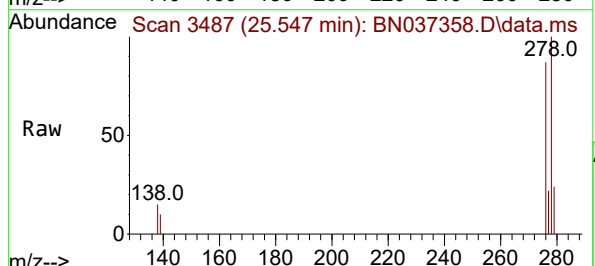
Tgt Ion:278 Resp: 77899

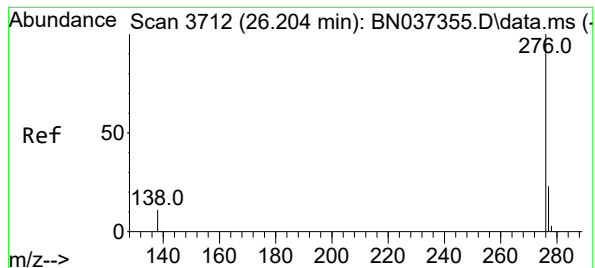
Ion Ratio Lower Upper

278 100

139 10.2 10.2 15.4#

279 24.2 35.6 53.4#





#41

Benzo(g,h,i)perylene

Concen: 3.239 ng

RT: 26.199 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037358.D

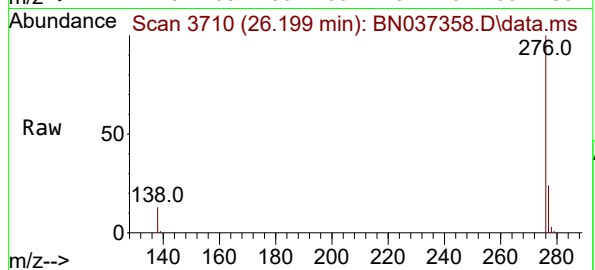
Acq: 20 Jun 2025 19:51

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



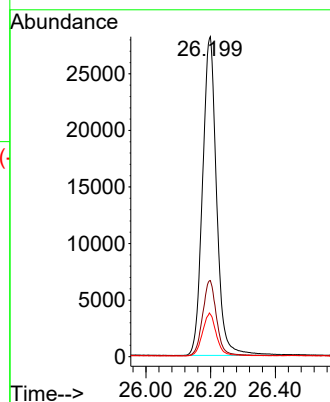
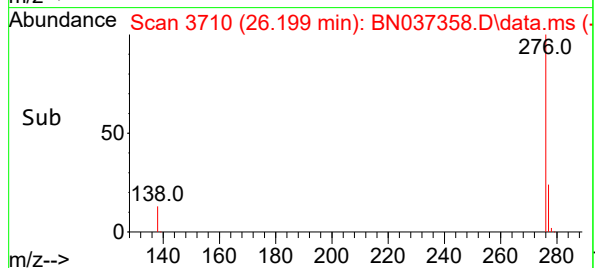
Tgt Ion:276 Resp: 84957

Ion Ratio Lower Upper

276 100

277 23.8 22.7 34.1

138 13.3 9.4 14.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037359.D
 Acq On : 20 Jun 2025 20:27
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Jun 20 23:28:21 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:25:11 2025
 Response via : Initial Calibration

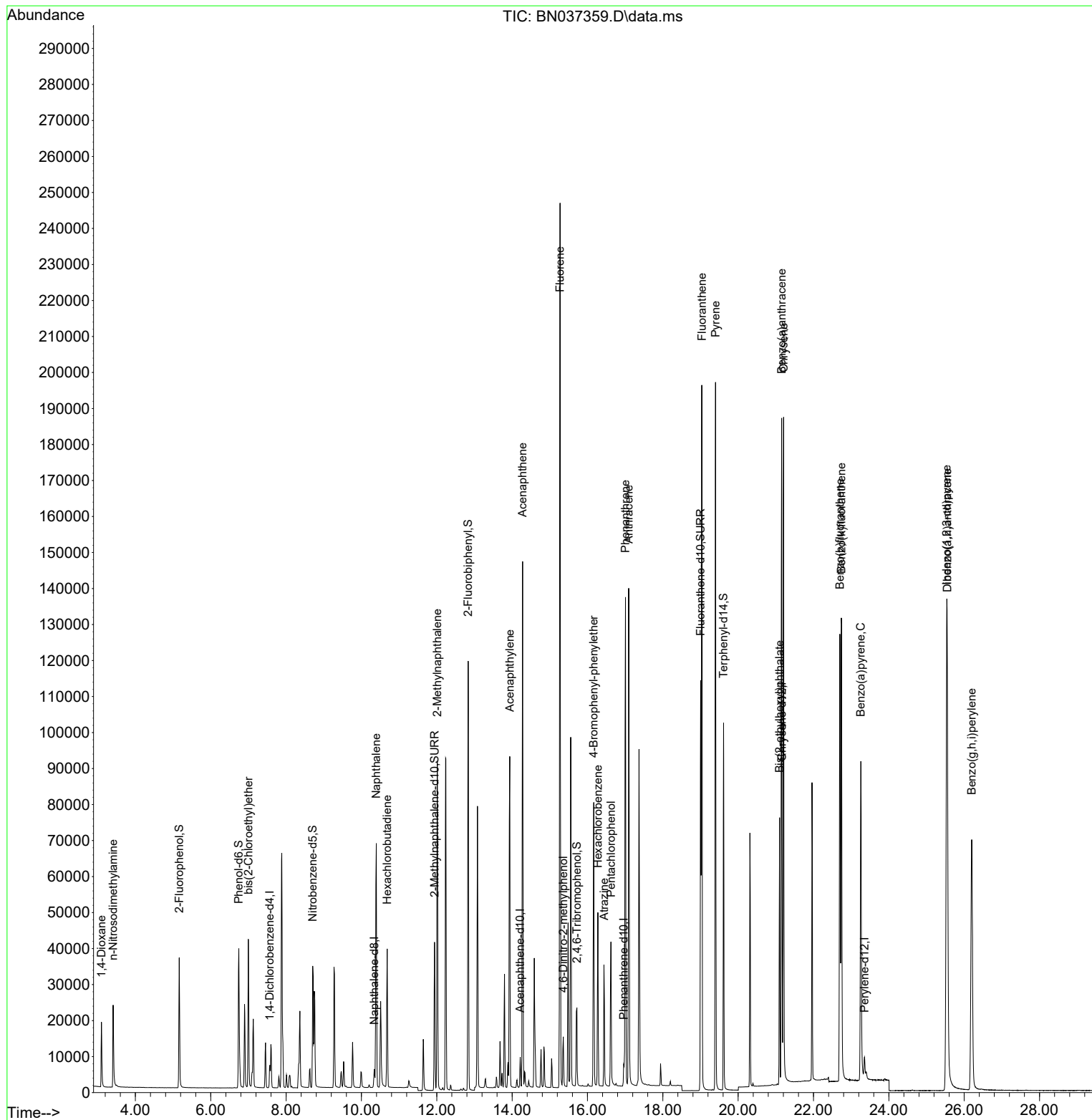
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	3043	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	6418	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	4465	0.400	ng	0.00
19) Phenanthrene-d10	16.959	188	9254	0.400	ng	#-0.01
29) Chrysene-d12	21.162	240	8543	0.400	ng	0.00
35) Perylene-d12	23.354	264	7704	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	29312	5.270	ng	0.00
5) Phenol-d6	6.744	99	34073	6.190	ng	0.00
8) Nitrobenzene-d5	8.707	82	28934	5.432	ng	-0.01
11) 2-Methylnaphthalene-d10	11.940	152	54112	5.210	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	13707	4.292	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	99254	5.067	ng	0.00
27) Fluoranthene-d10	19.003	212	133941	4.649	ng	0.00
31) Terphenyl-d14	19.611	244	98354	5.042	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.097	88	13159	4.896	ng	Qvalue 90
3) n-Nitrosodimethylamine	3.408	42	12840	4.103	ng	# 68
6) bis(2-Chloroethyl)ether	6.997	93	30083	6.246	ng	97
9) Naphthalene	10.394	128	85311	5.128	ng	# 86
10) Hexachlorobutadiene	10.682	225	30147	3.708	ng	# 99
12) 2-Methylnaphthalene	12.011	142	63177	5.400	ng	# 91
16) Acenaphthylene	13.935	152	99681	5.319	ng	98
17) Acenaphthene	14.277	154	64734	5.211	ng	98
18) Fluorene	15.271	166	92629	5.260	ng	99
20) 4,6-Dinitro-2-methylph...	15.357	198	13168	4.707	ng	# 44
21) 4-Bromophenyl-phenylether	16.165	248	34583	4.578	ng	94
22) Hexachlorobenzene	16.276	284	33797	4.288	ng	98
23) Atrazine	16.438	200	27492	4.648	ng	# 81
24) Pentachlorophenol	16.624	266	19702	4.555	ng	97
25) Phenanthrene	17.009	178	141308	5.404	ng	99
26) Anthracene	17.095	178	135503	5.549	ng	99
28) Fluoranthene	19.035	202	175639	4.910	ng	# 98
30) Pyrene	19.398	202	175487	5.364	ng	99
32) Benzo(a)anthracene	21.153	228	152551	5.534	ng	97
33) Chrysene	21.206	228	159633	4.566	ng	96
34) Bis(2-ethylhexyl)phtha...	21.099	149	59151	5.235	ng	# 97
36) Indeno(1,2,3-cd)pyrene	25.535	276	178739	5.473	ng	# 89
37) Benzo(b)fluoranthene	22.699	252	152855	5.595	ng	# 83
38) Benzo(k)fluoranthene	22.740	252	162397	5.473	ng	# 83
39) Benzo(a)pyrene	23.254	252	134379	5.375	ng	# 76
40) Dibenzo(a,h)anthracene	25.549	278	142364	5.474	ng	# 74
41) Benzo(g,h,i)perylene	26.199	276	153920	5.131	ng	92

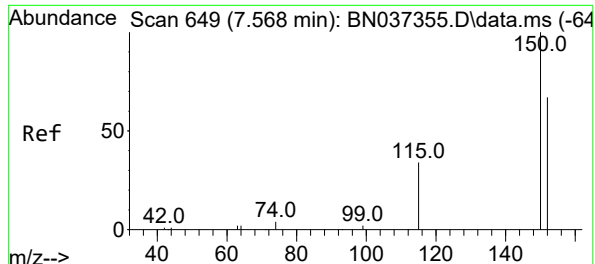
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037359.D
Acq On : 20 Jun 2025 20:27
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Jun 20 23:28:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration

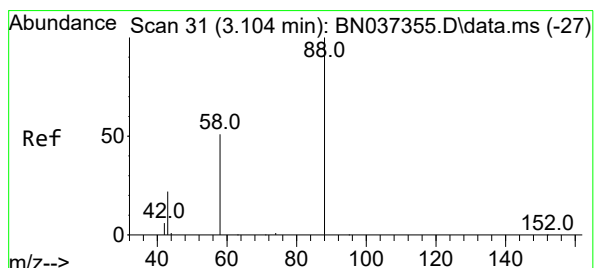
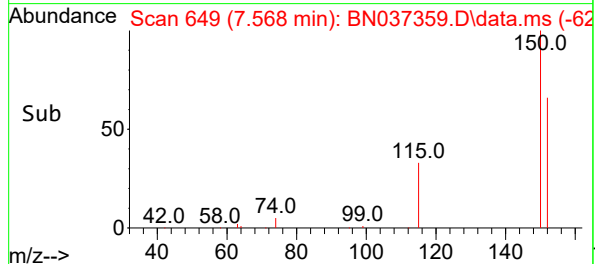
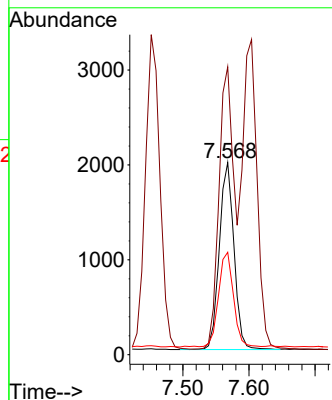
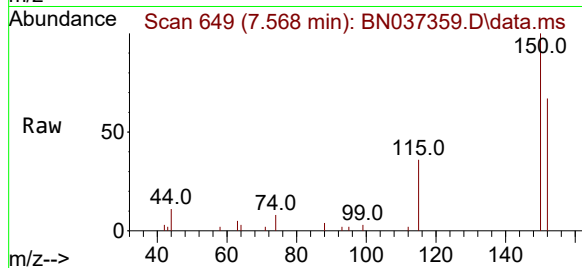




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

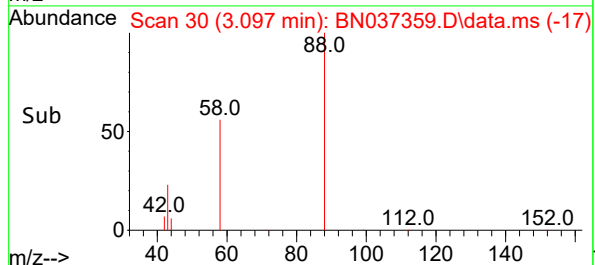
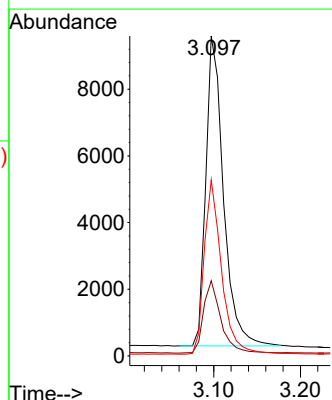
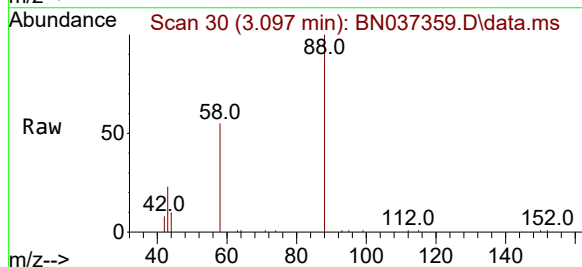
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 3043
Ion Ratio Lower Upper
152 100
150 149.8 112.7 169.1
115 53.3 45.9 68.9

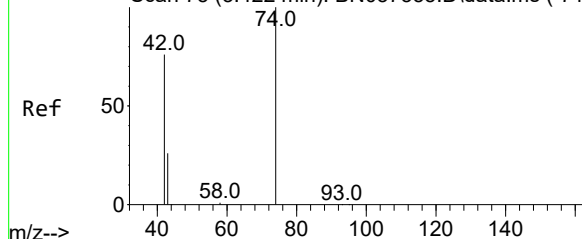


#2
1,4-Dioxane
Concen: 4.896 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion: 88 Resp: 13159
Ion Ratio Lower Upper
88 100
43 22.8 21.0 31.6
58 55.2 38.0 57.0



Abundance Scan 75 (3.422 min): BN037355.D\data.ms (-71)



#3

n-Nitrosodimethylamine

Concen: 4.103 ng

RT: 3.408 min Scan# 71

Delta R.T. -0.015 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

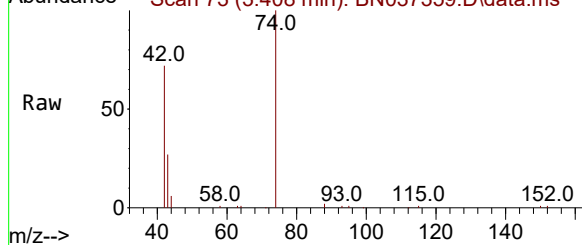
Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

Abundance Scan 73 (3.408 min): BN037359.D\data.ms



Tgt Ion: 42 Resp: 12840

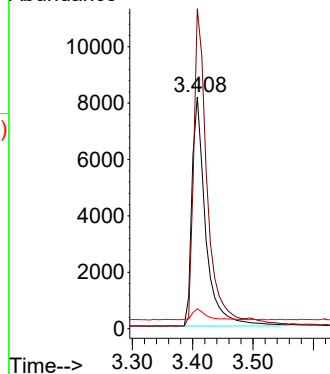
Ion Ratio Lower Upper

42 100

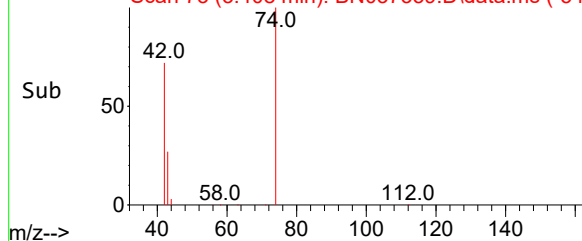
74 139.7 84.3 126.5#

44 5.0 5.0 7.4

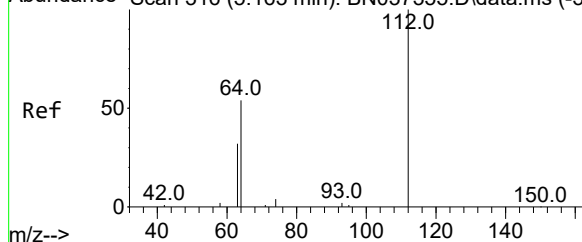
Abundance



Abundance Scan 73 (3.408 min): BN037359.D\data.ms (-54)



Abundance Scan 316 (5.163 min): BN037355.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 5.270 ng

RT: 5.163 min Scan# 316

Delta R.T. -0.000 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

Tgt Ion: 112 Resp: 29312

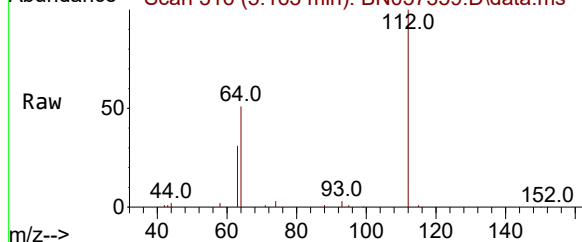
Ion Ratio Lower Upper

112 100

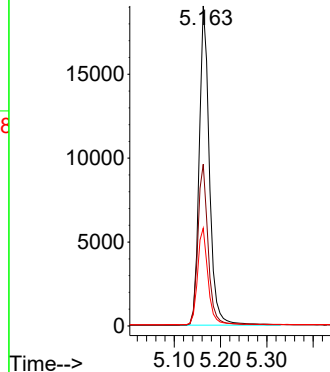
64 50.9 38.7 58.1

63 30.9 26.4 39.6

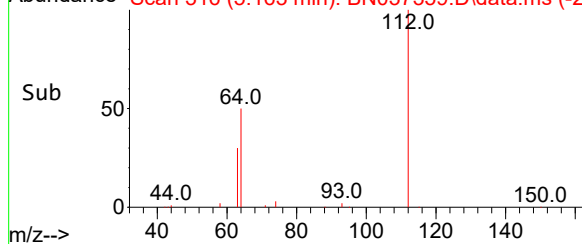
Abundance Scan 316 (5.163 min): BN037359.D\data.ms

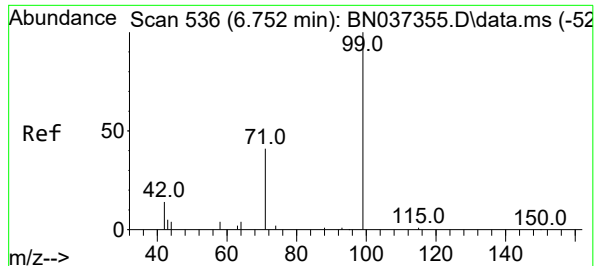


Abundance



Abundance Scan 316 (5.163 min): BN037359.D\data.ms (-28)

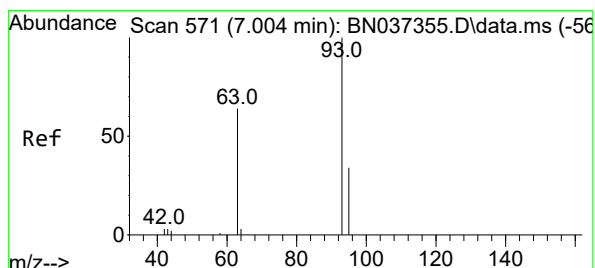
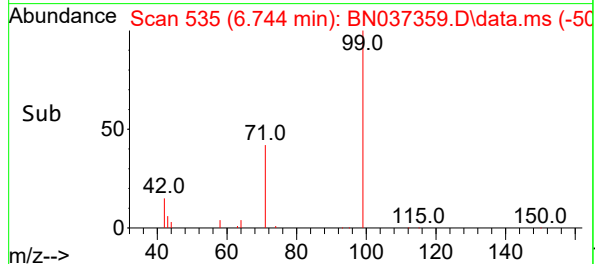
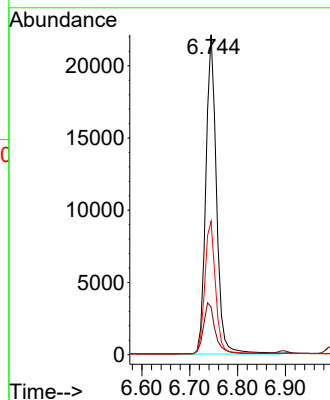
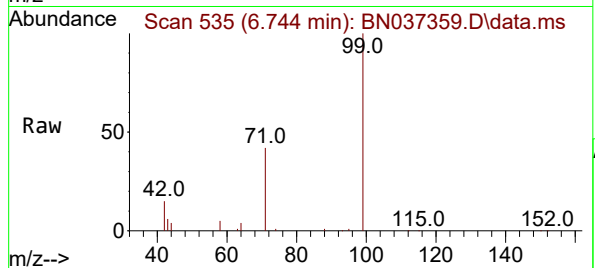




#5
Phenol-d6
Concen: 6.190 ng
RT: 6.744 min Scan# 51
Delta R.T. -0.007 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

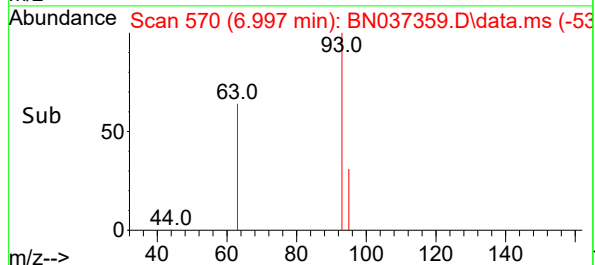
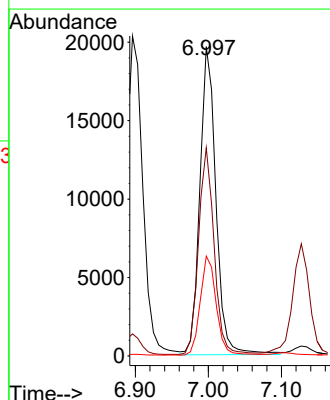
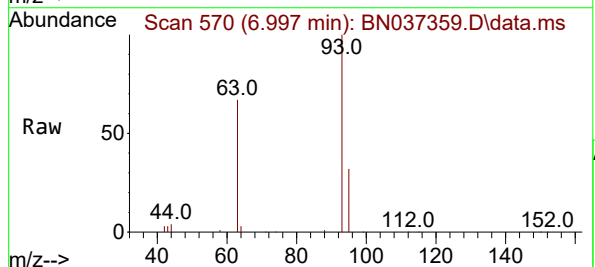
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

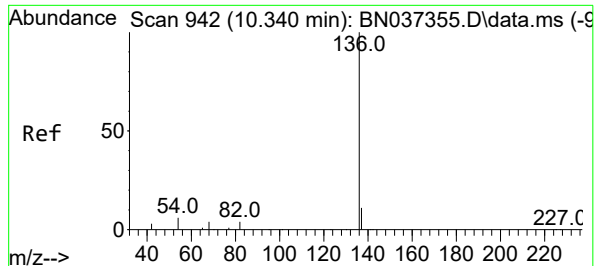
Tgt Ion: 99 Resp: 34073
Ion Ratio Lower Upper
99 100
42 17.4 19.8 29.8#
71 42.6 42.6 64.0#



#6
bis(2-Chloroethyl)ether
Concen: 6.246 ng
RT: 6.997 min Scan# 570
Delta R.T. -0.007 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion: 93 Resp: 30083
Ion Ratio Lower Upper
93 100
63 64.8 53.2 79.8
95 31.7 27.3 40.9

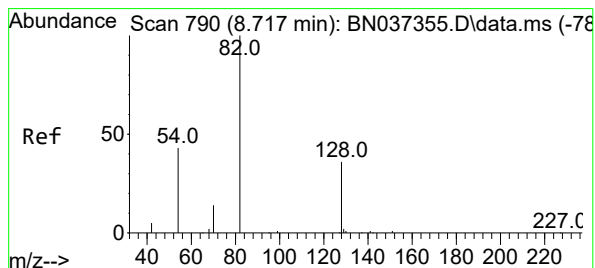
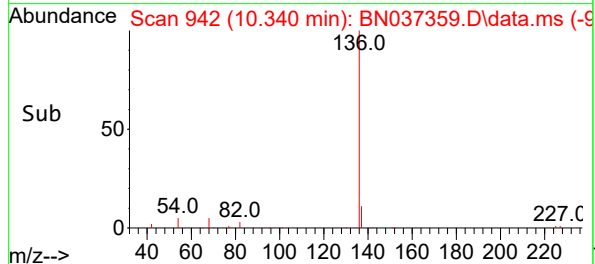
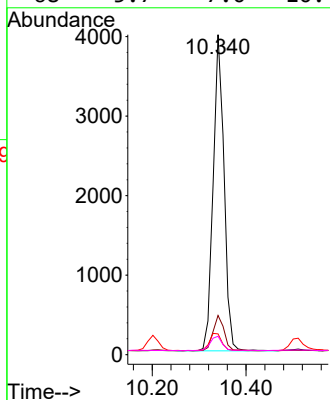
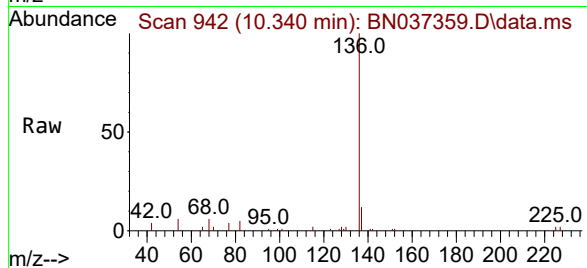




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 941
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

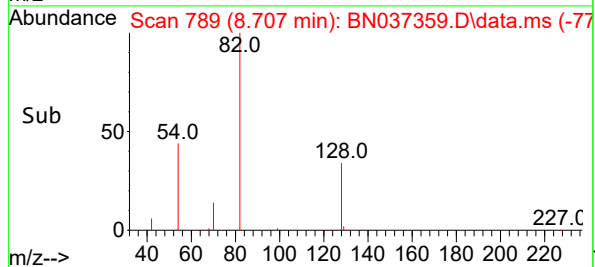
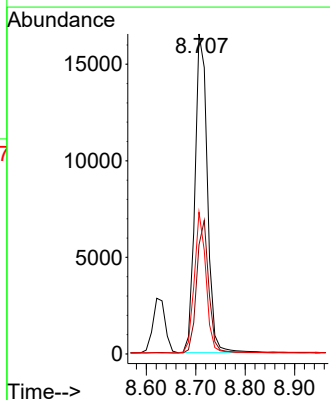
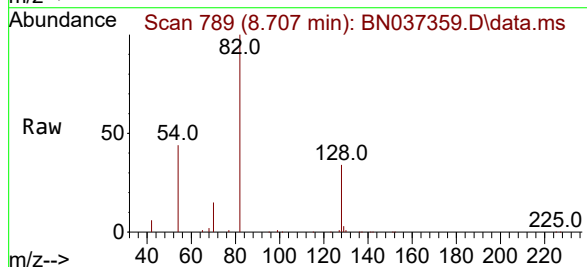
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

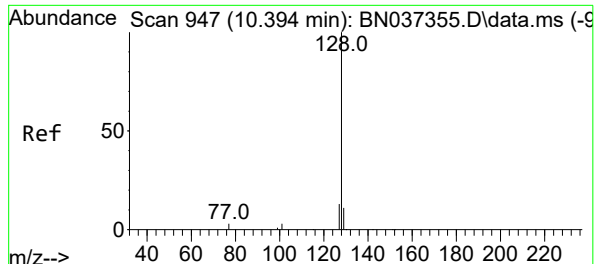
Tgt Ion:136 Resp: 6418
Ion Ratio Lower Upper
136 100
137 12.3 12.2 18.2
54 6.5 8.8 13.2#
68 5.7 7.0 10.4#



#8
Nitrobenzene-d5
Concen: 5.432 ng
RT: 8.707 min Scan# 789
Delta R.T. -0.011 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion: 82 Resp: 28934
Ion Ratio Lower Upper
82 100
128 34.1 42.5 63.7#
54 44.3 43.2 64.8

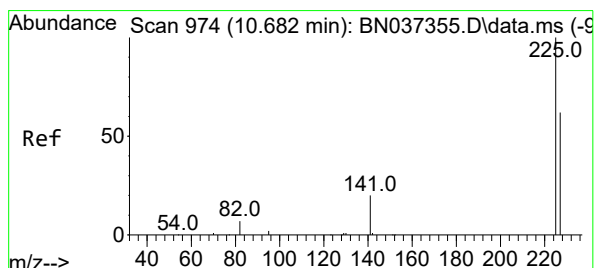
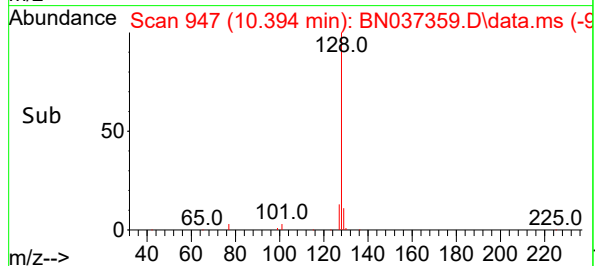
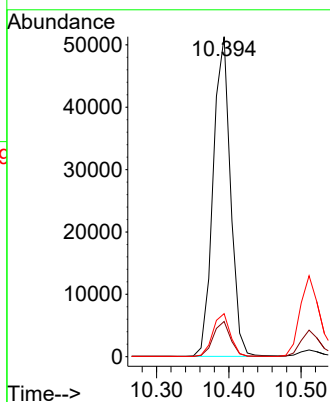
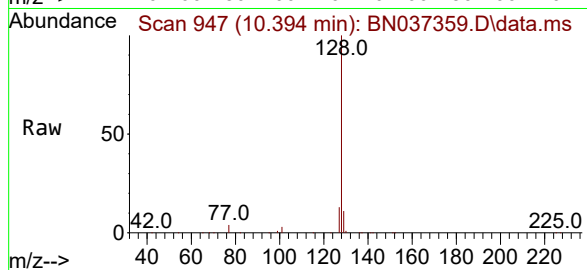




#9
Naphthalene
Concen: 5.128 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

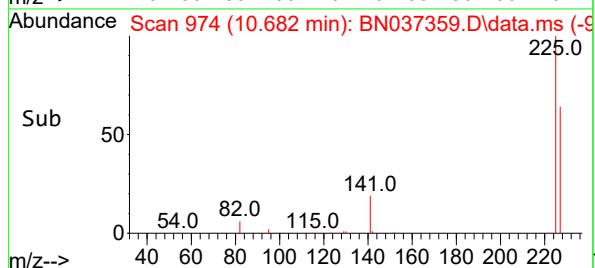
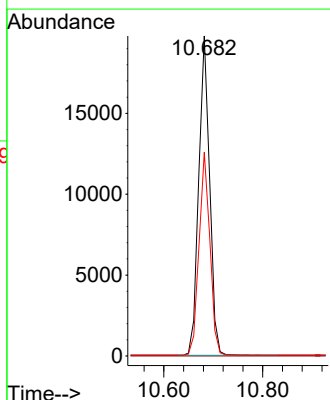
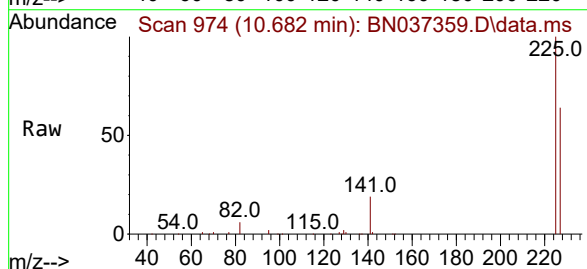
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

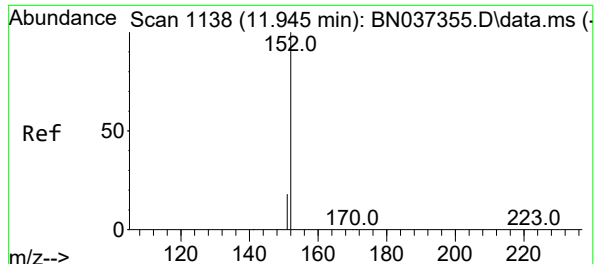
Tgt Ion:128 Resp: 85311
Ion Ratio Lower Upper
128 100
129 11.0 14.0 21.0#
127 13.5 15.8 23.8#



#10
Hexachlorobutadiene
Concen: 3.708 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:225 Resp: 30147
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 50.3 75.5

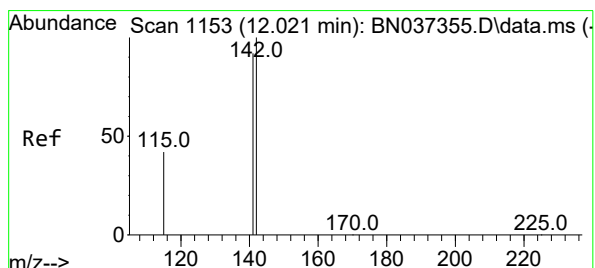
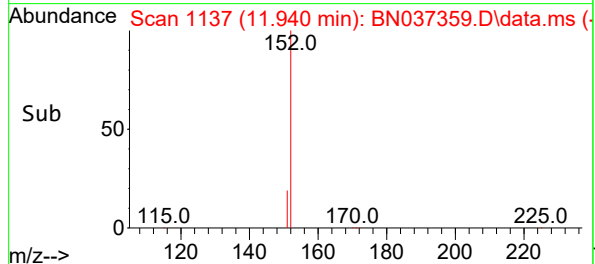
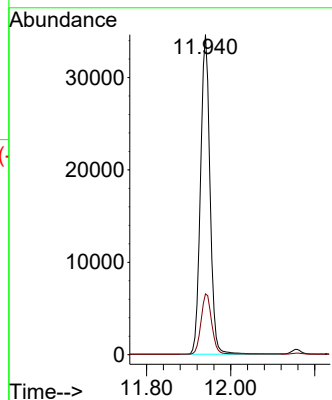
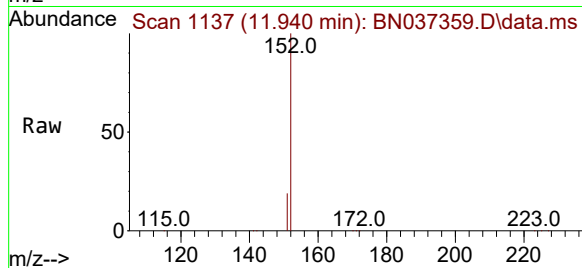




#11
2-Methylnaphthalene-d10
Concen: 5.210 ng
RT: 11.940 min Scan# 1138
Delta R.T. -0.005 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

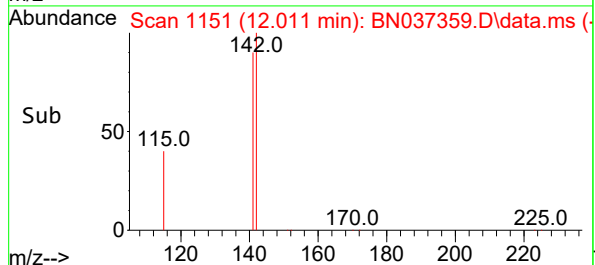
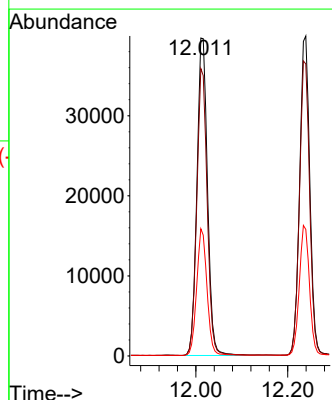
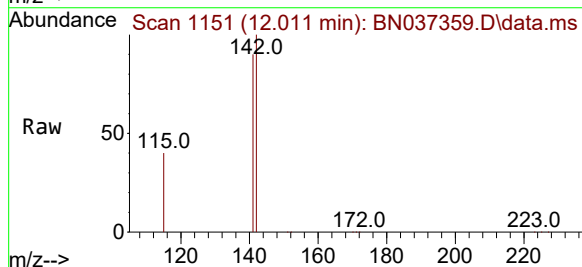
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

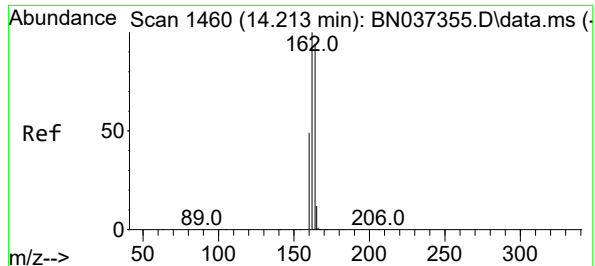
Tgt Ion:152 Resp: 54112
Ion Ratio Lower Upper
152 100
151 21.2 17.4 26.0



#12
2-Methylnaphthalene
Concen: 5.400 ng
RT: 12.011 min Scan# 1151
Delta R.T. -0.010 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:142 Resp: 63177
Ion Ratio Lower Upper
142 100
141 90.4 70.2 105.2
115 40.0 43.0 64.4#

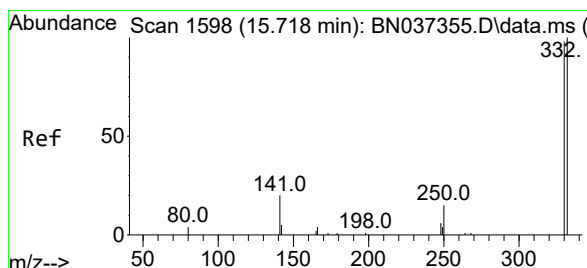
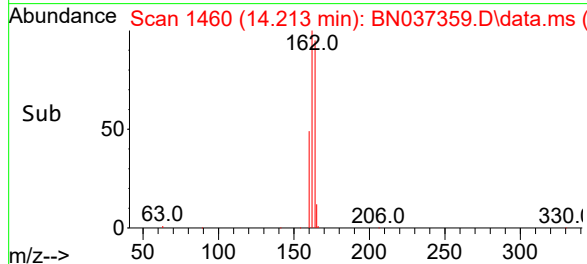
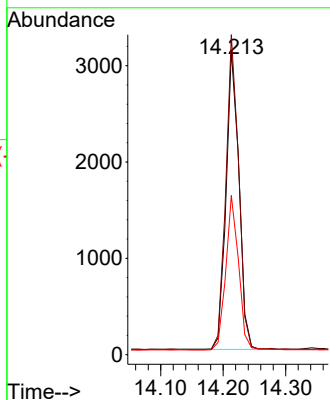
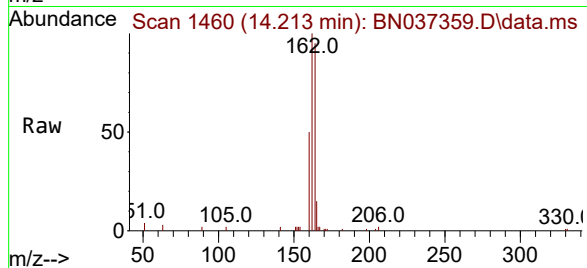




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

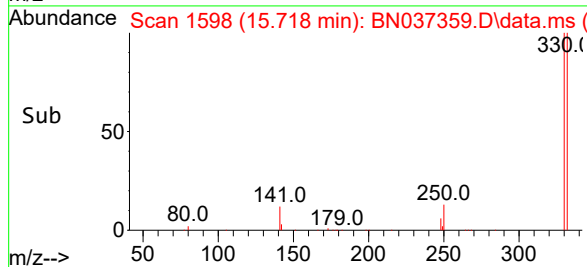
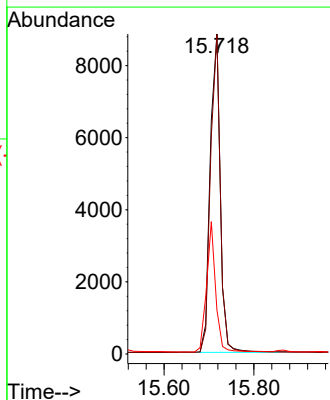
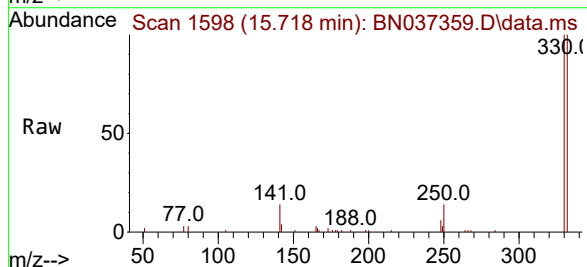
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

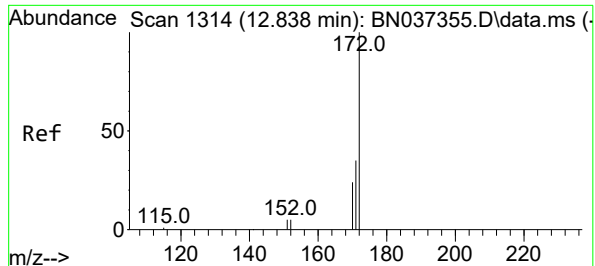
Tgt Ion:164 Resp: 4465
Ion Ratio Lower Upper
164 100
162 105.2 81.5 122.3
160 52.3 43.0 64.4



#14
2,4,6-Tribromophenol
Concen: 4.292 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:330 Resp: 13707
Ion Ratio Lower Upper
330 100
332 96.8 78.4 117.6
141 36.8 24.4 36.6#





#15

2-Fluorobiphenyl

Concen: 5.067 ng

RT: 12.833 min Scan# 1313

Delta R.T. -0.005 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

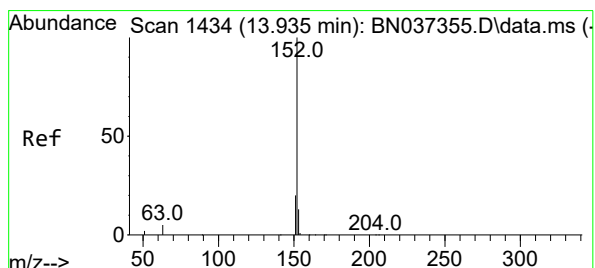
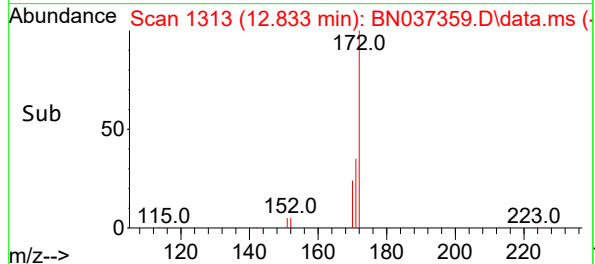
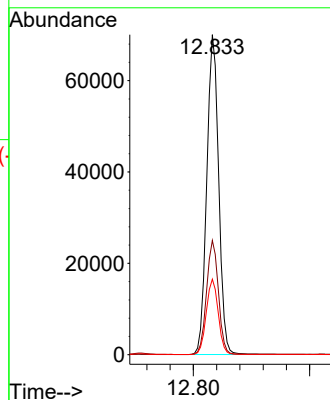
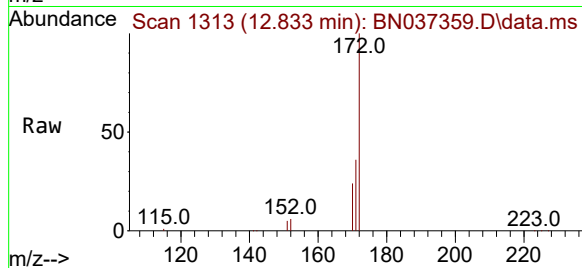
Tgt Ion:172 Resp: 99254

Ion Ratio Lower Upper

172 100

171 35.7 30.8 46.2

170 23.6 21.9 32.9



#16

Acenaphthylene

Concen: 5.319 ng

RT: 13.935 min Scan# 1434

Delta R.T. -0.000 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

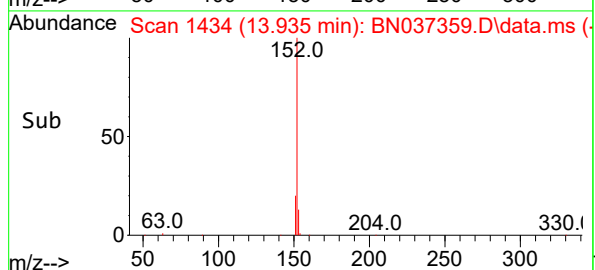
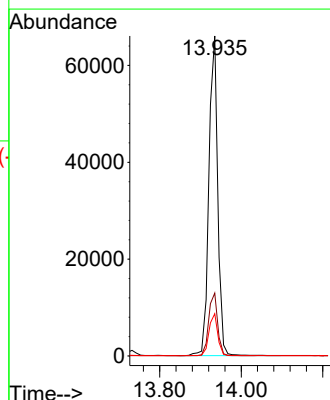
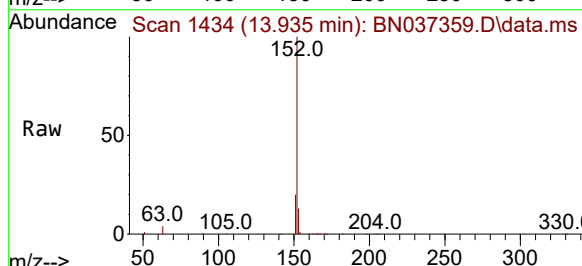
Tgt Ion:152 Resp: 99681

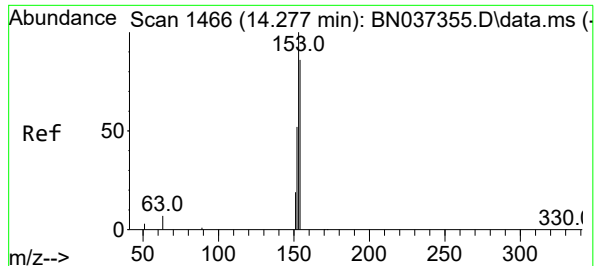
Ion Ratio Lower Upper

152 100

151 19.8 16.6 24.8

153 13.1 10.2 15.2





#17

Acenaphthene

Concen: 5.211 ng

RT: 14.277 min Scan# 1466

Delta R.T. -0.000 min

Lab File: BN037359.D

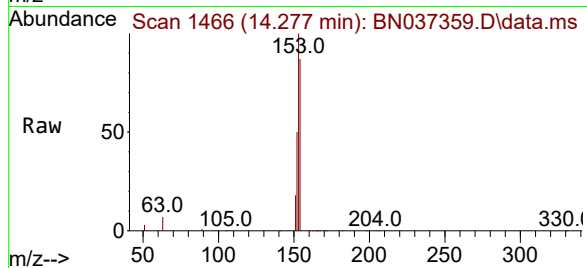
Acq: 20 Jun 2025 20:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



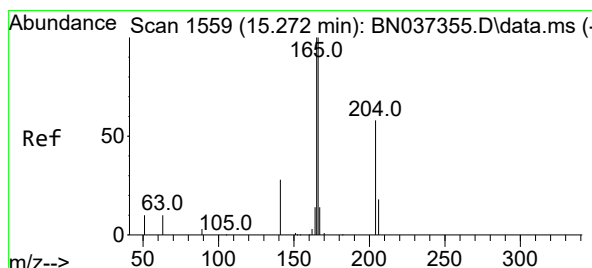
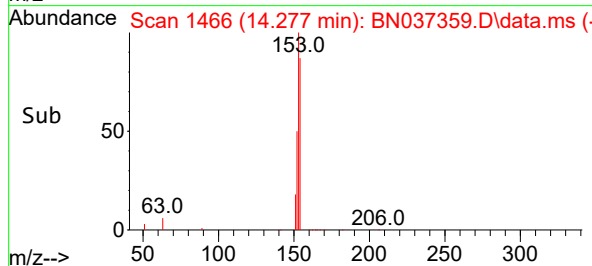
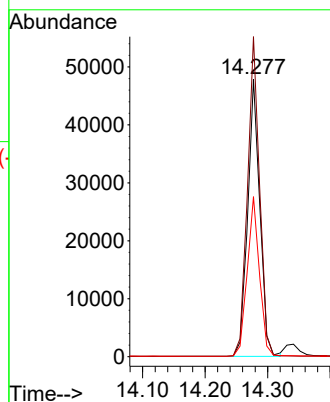
Tgt Ion:154 Resp: 64734

Ion Ratio Lower Upper

154 100

153 115.1 93.1 139.7

152 58.2 48.6 73.0



#18

Fluorene

Concen: 5.260 ng

RT: 15.271 min Scan# 1559

Delta R.T. -0.000 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

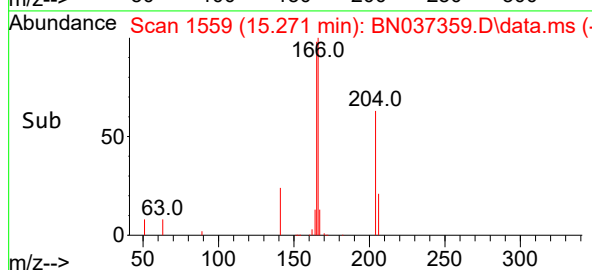
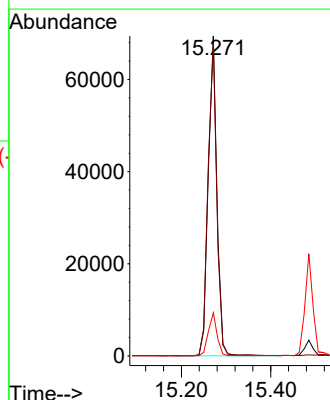
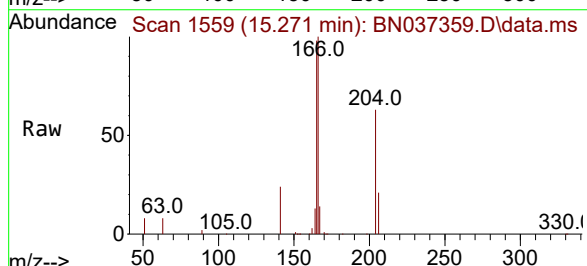
Tgt Ion:166 Resp: 92629

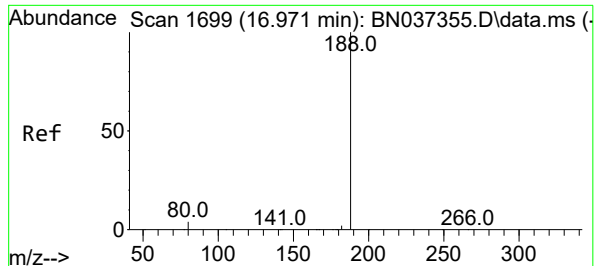
Ion Ratio Lower Upper

166 100

165 98.8 79.5 119.3

167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.959 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

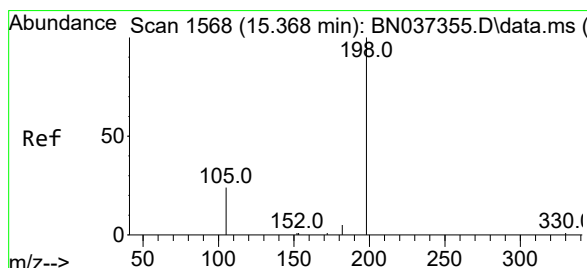
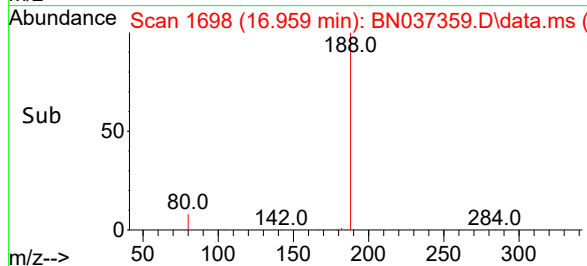
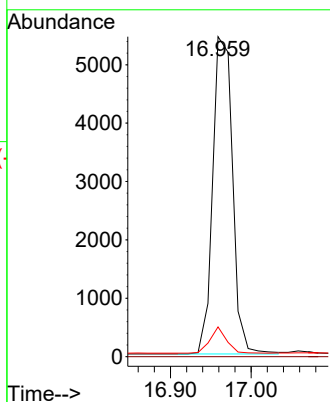
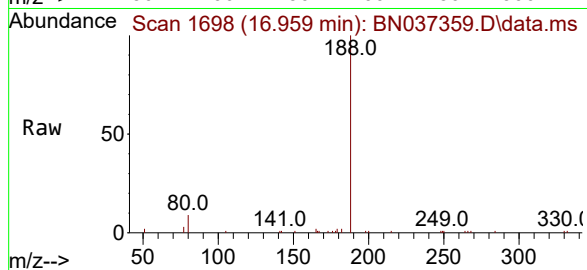
Tgt Ion:188 Resp: 9254

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.3 6.2 9.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 4.707 ng

RT: 15.357 min Scan# 1567

Delta R.T. -0.011 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

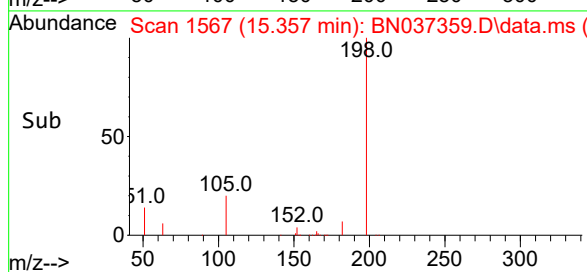
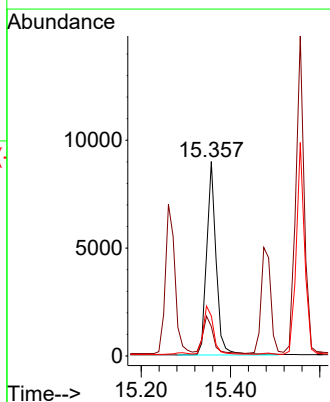
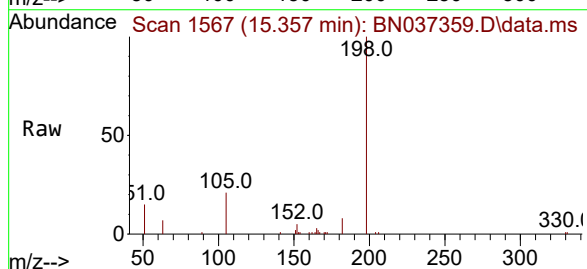
Tgt Ion:198 Resp: 13168

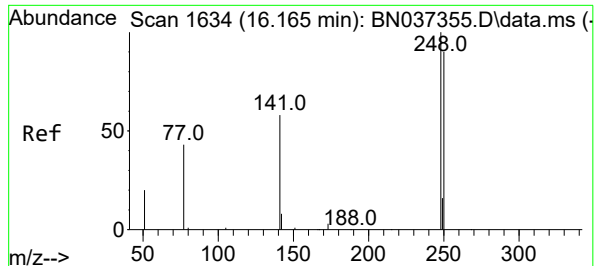
Ion Ratio Lower Upper

198 100

51 15.1 51.4 77.0#

105 20.6 45.5 68.3#





#21

4-Bromophenyl-phenylether

Concen: 4.578 ng

RT: 16.165 min Scan# 1634

Delta R.T. -0.000 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

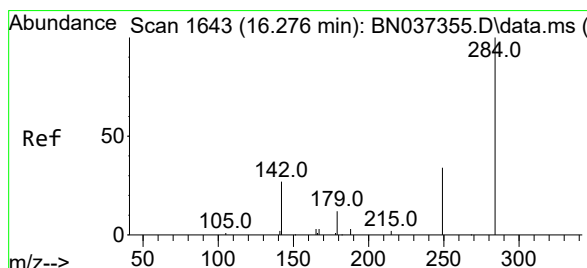
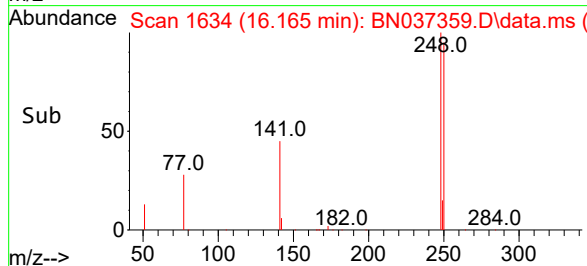
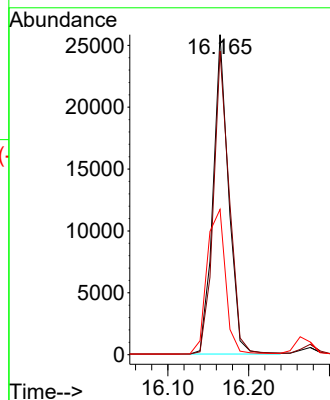
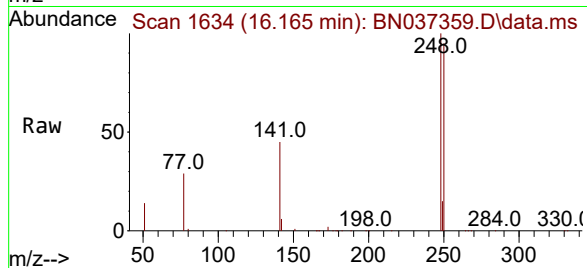
Tgt Ion:248 Resp: 34583

Ion Ratio Lower Upper

248 100

250 94.8 80.4 120.6

141 45.4 33.3 49.9



#22

Hexachlorobenzene

Concen: 4.288 ng

RT: 16.276 min Scan# 1643

Delta R.T. -0.000 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

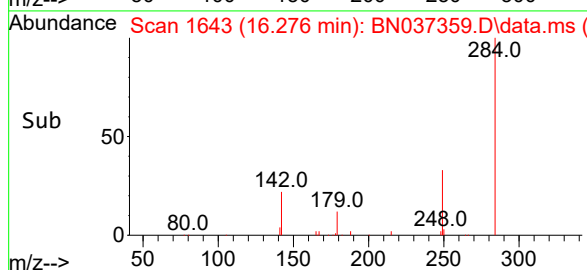
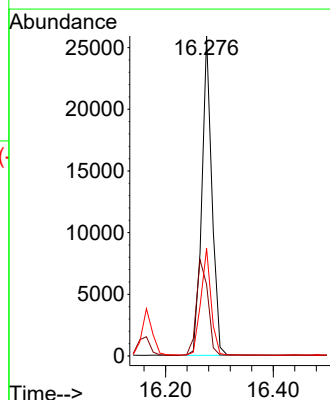
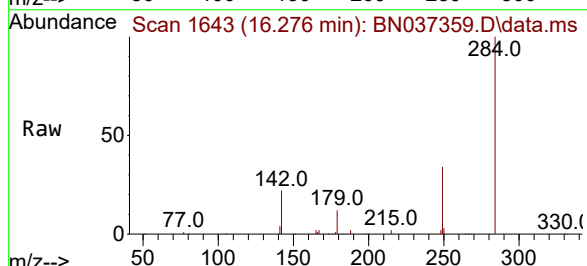
Tgt Ion:284 Resp: 33797

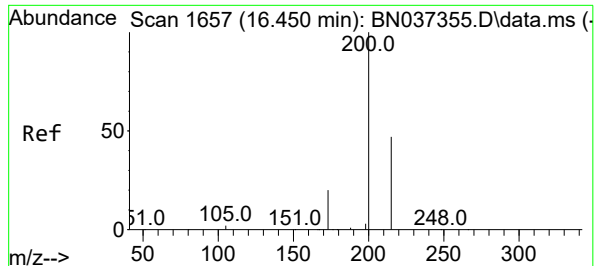
Ion Ratio Lower Upper

284 100

142 34.2 27.0 40.6

249 34.0 28.8 43.2





#23

Atrazine

Concen: 4.648 ng

RT: 16.438 min Scan# 1656

Delta R.T. -0.012 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

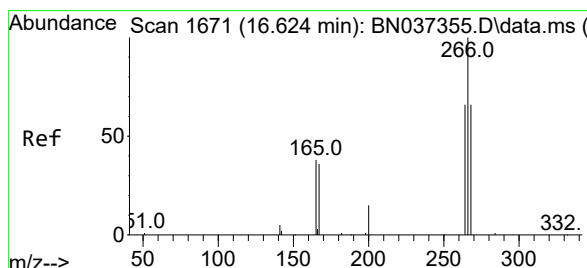
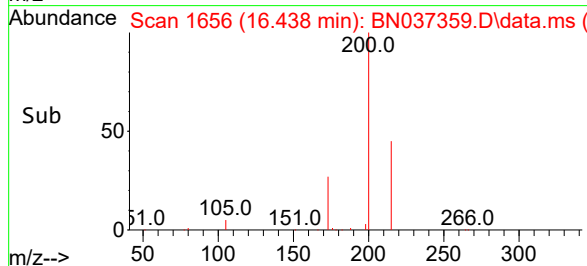
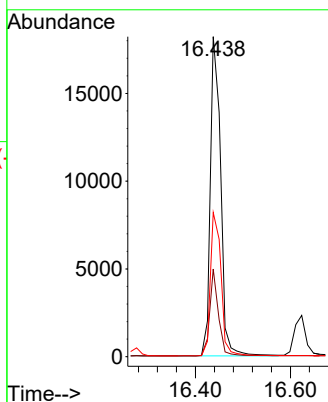
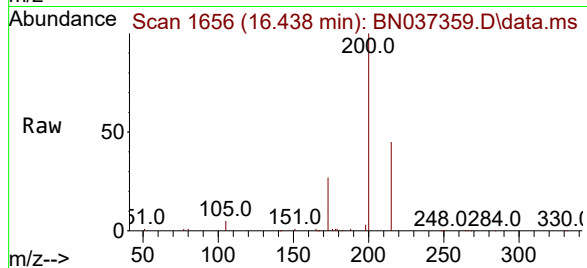
Tgt Ion:200 Resp: 27492

Ion Ratio Lower Upper

200 100

173 27.4 29.2 43.8#

215 45.1 48.8 73.2#



#24

Pentachlorophenol

Concen: 4.555 ng

RT: 16.624 min Scan# 1671

Delta R.T. -0.000 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

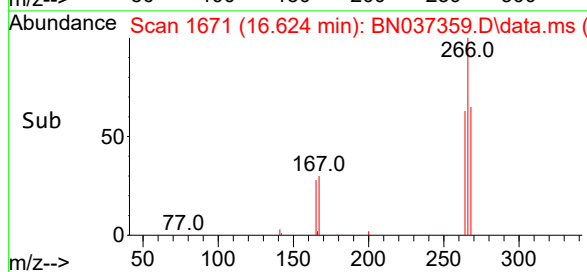
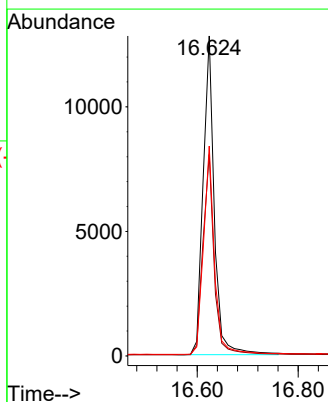
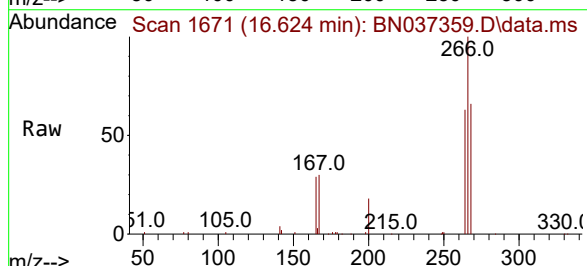
Tgt Ion:266 Resp: 19702

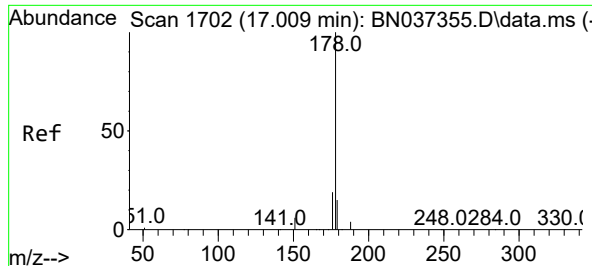
Ion Ratio Lower Upper

266 100

264 63.2 50.3 75.5

268 64.3 55.3 82.9

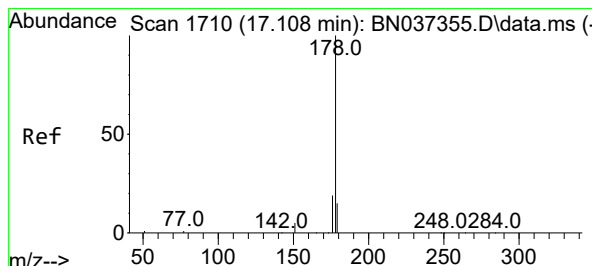
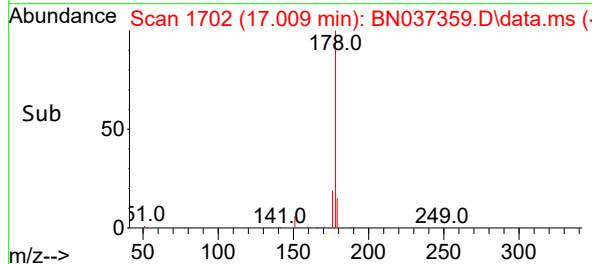
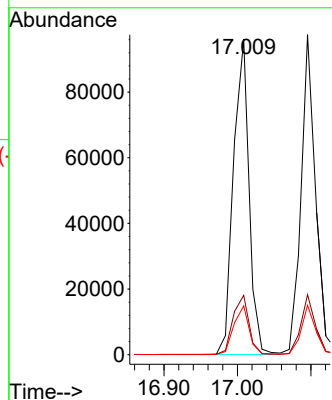
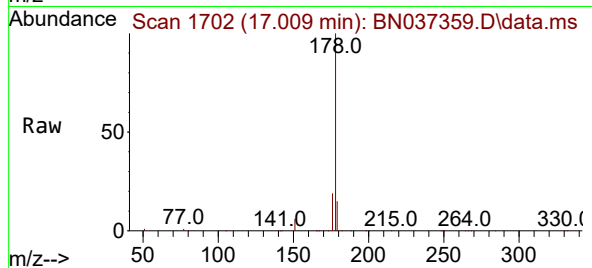




#25
Phenanthrene
Concen: 5.404 ng
RT: 17.009 min Scan# 1709
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

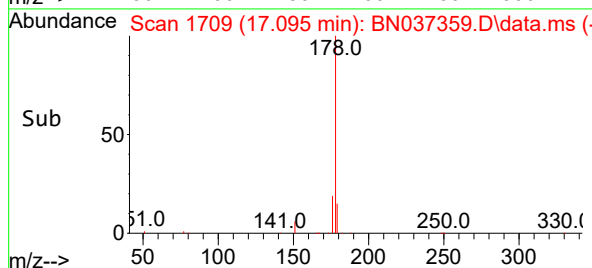
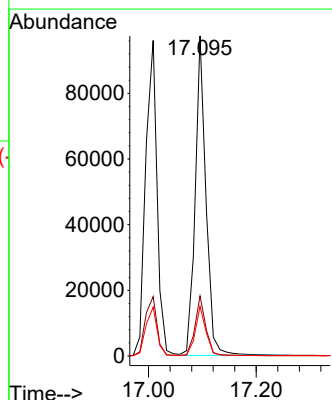
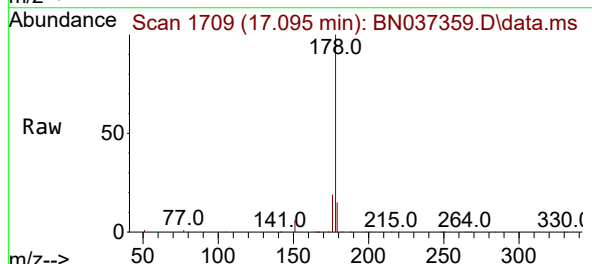
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

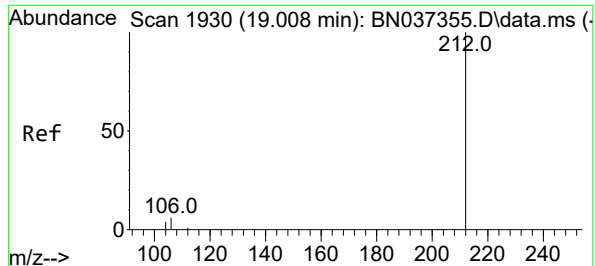
Tgt Ion:178 Resp: 141308
Ion Ratio Lower Upper
178 100
176 19.2 15.2 22.8
179 15.2 12.9 19.3



#26
Anthracene
Concen: 5.549 ng
RT: 17.095 min Scan# 1709
Delta R.T. -0.013 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:178 Resp: 135503
Ion Ratio Lower Upper
178 100
176 18.6 14.7 22.1
179 15.4 13.0 19.6





#27

Fluoranthene-d10

Concen: 4.649 ng

RT: 19.003 min Scan# 1930

Delta R.T. -0.005 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

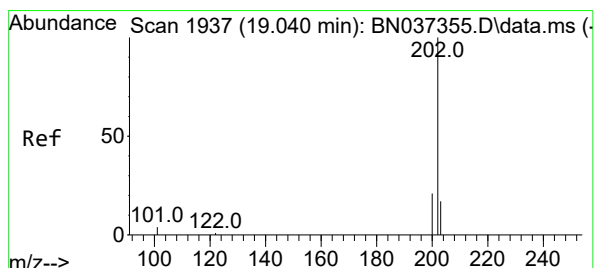
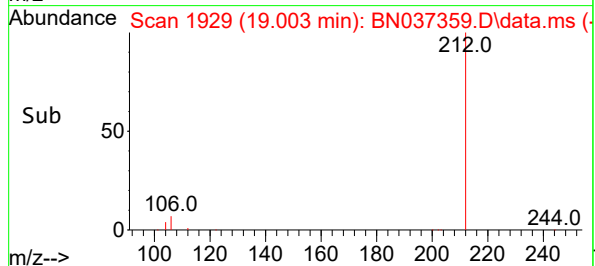
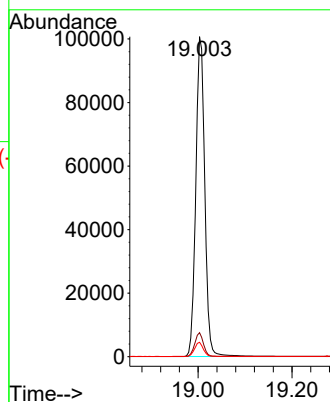
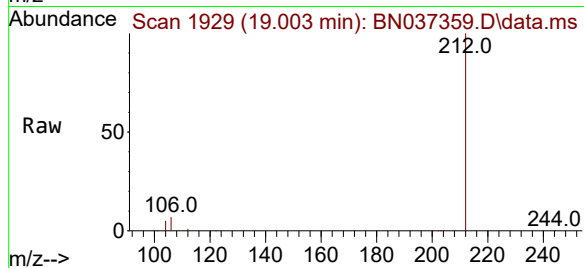
Tgt Ion:212 Resp: 133941

Ion Ratio Lower Upper

212 100

106 7.3 3.0 4.4#

104 4.3 2.0 3.0#



#28

Fluoranthene

Concen: 4.910 ng

RT: 19.035 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

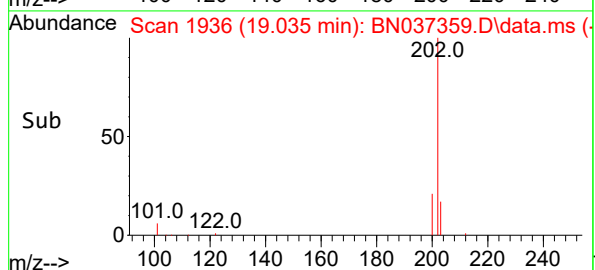
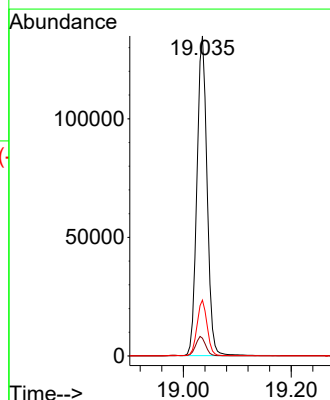
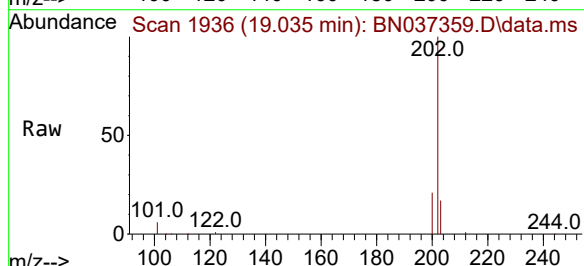
Tgt Ion:202 Resp: 175639

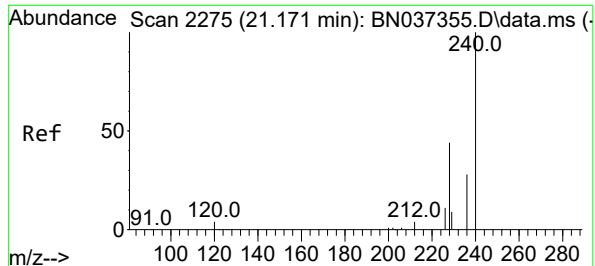
Ion Ratio Lower Upper

202 100

101 6.2 3.0 4.6#

203 17.3 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

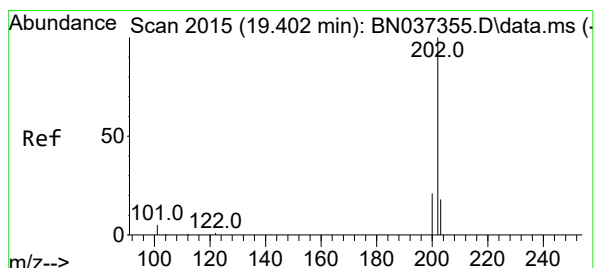
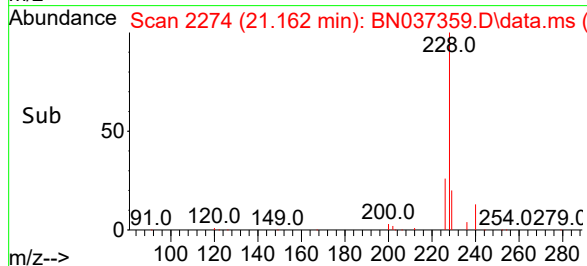
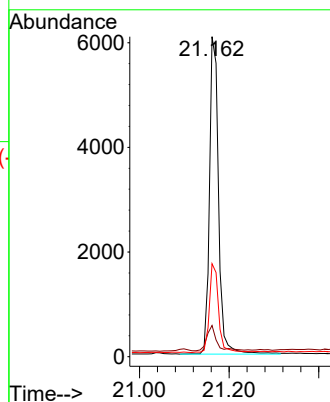
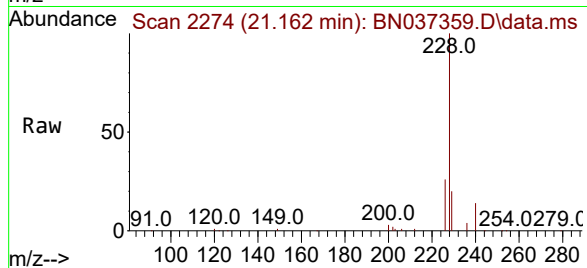
Tgt Ion:240 Resp: 8543

Ion Ratio Lower Upper

240 100

120 9.8 7.5 11.3

236 29.1 24.9 37.3



#30

Pyrene

Concen: 5.364 ng

RT: 19.398 min Scan# 2014

Delta R.T. -0.005 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

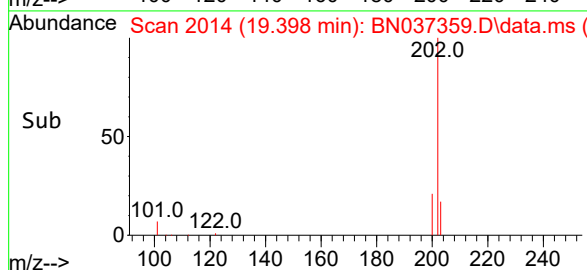
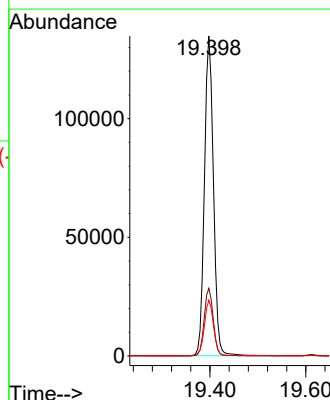
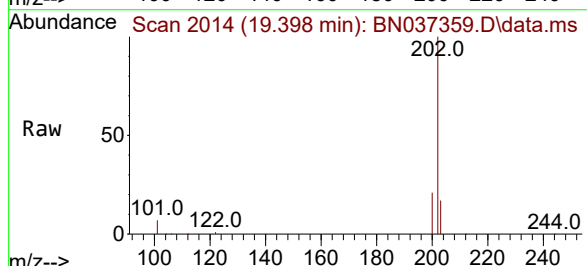
Tgt Ion:202 Resp: 175487

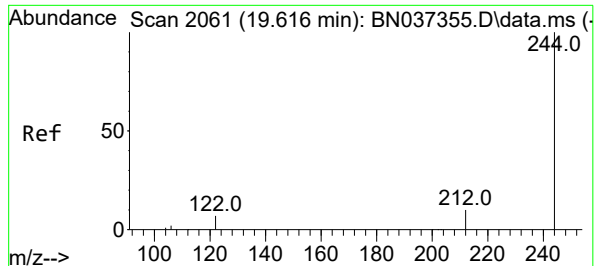
Ion Ratio Lower Upper

202 100

200 21.3 16.8 25.2

203 17.8 14.5 21.7

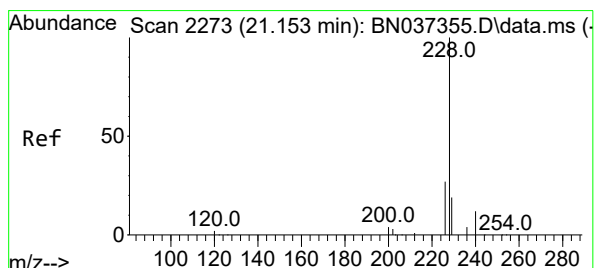
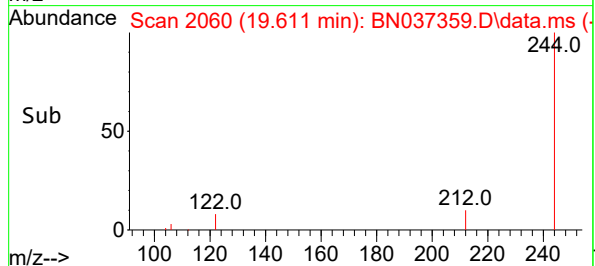
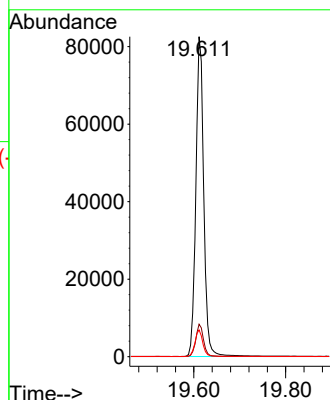
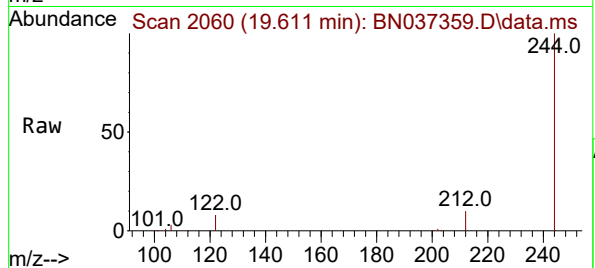




#31
Terphenyl-d14
Concen: 5.042 ng
RT: 19.611 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

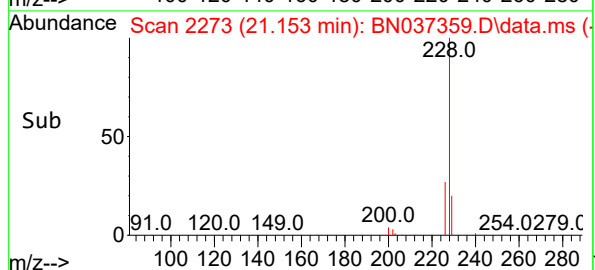
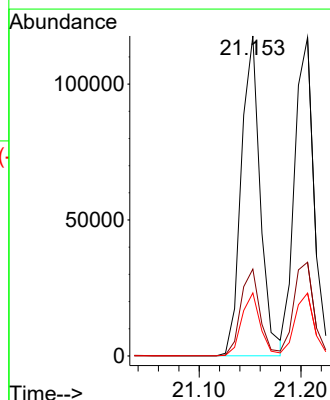
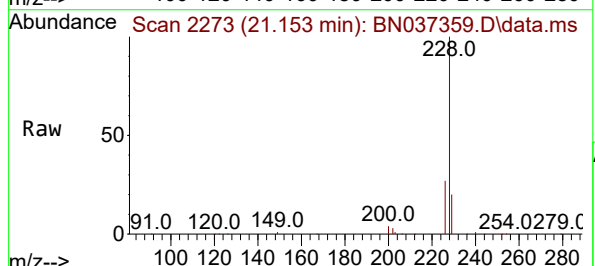
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

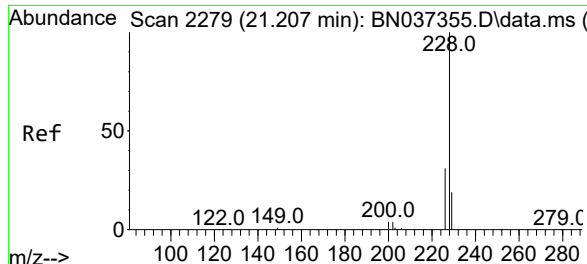
Tgt Ion:244 Resp: 98354
Ion Ratio Lower Upper
244 100
212 10.2 11.1 16.7#
122 8.4 7.2 10.8



#32
Benzo(a)anthracene
Concen: 5.534 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.000 min
Lab File: BN037359.D
Acq: 20 Jun 2025 20:27

Tgt Ion:228 Resp: 152551
Ion Ratio Lower Upper
228 100
226 27.1 23.0 34.4
229 19.7 17.4 26.0





#33

Chrysene

Concen: 4.566 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

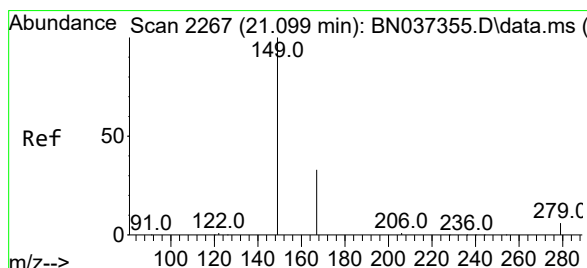
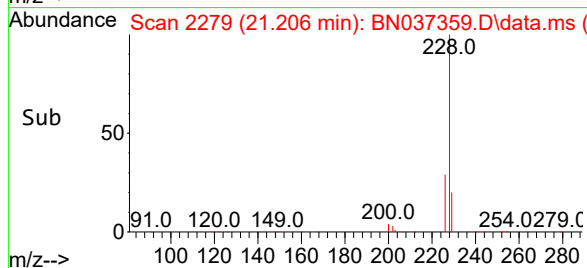
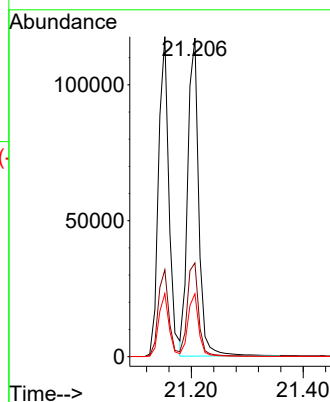
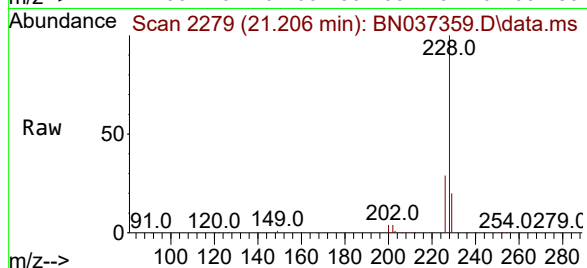
Tgt Ion:228 Resp: 159633

Ion Ratio Lower Upper

228 100

226 29.5 25.4 38.2

229 19.7 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 5.235 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.000 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

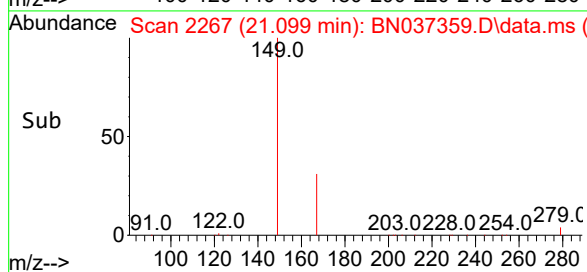
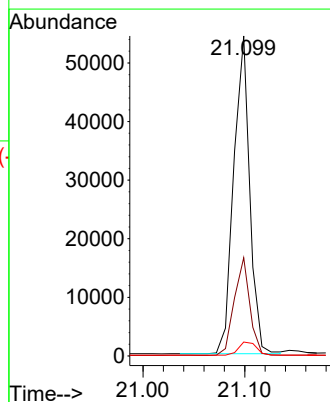
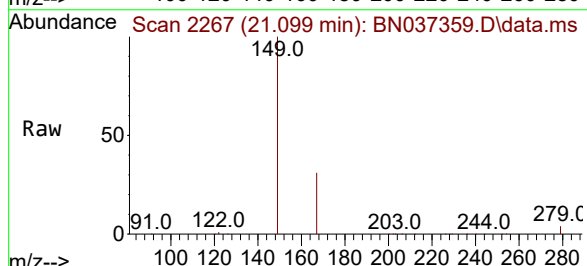
Tgt Ion:149 Resp: 59151

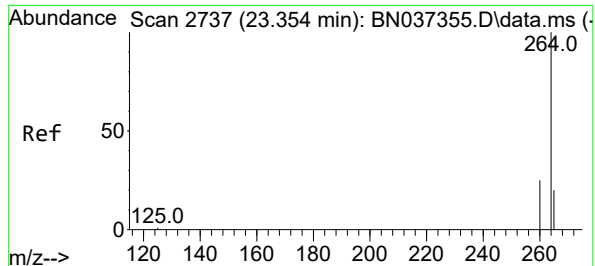
Ion Ratio Lower Upper

149 100

167 30.2 24.6 37.0

279 4.7 6.5 9.7#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.354 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

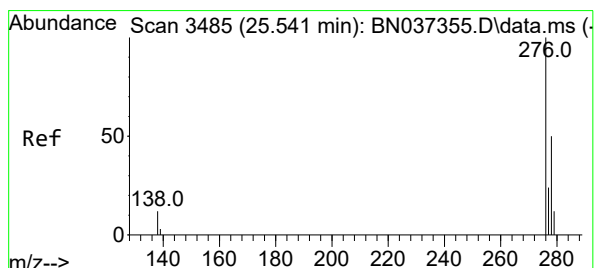
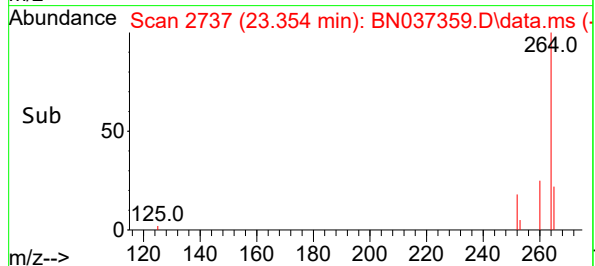
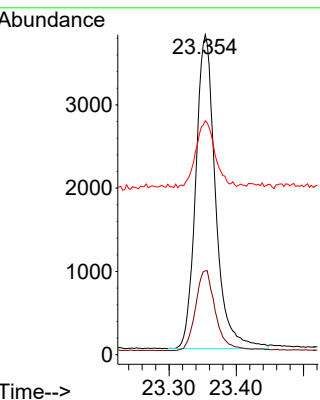
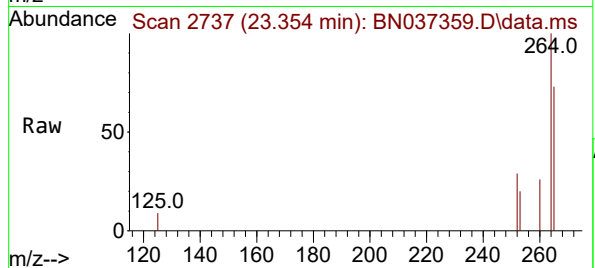
Tgt Ion:264 Resp: 7704

Ion Ratio Lower Upper

264 100

260 26.2 21.4 32.2

265 73.1 71.4 107.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 5.473 ng

RT: 25.535 min Scan# 3483

Delta R.T. -0.006 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

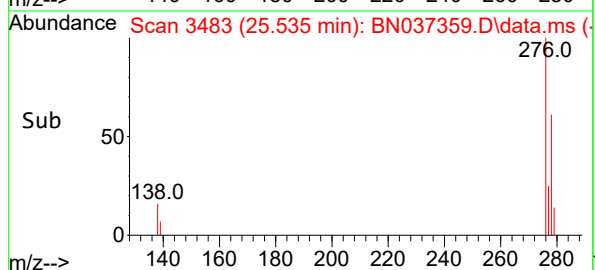
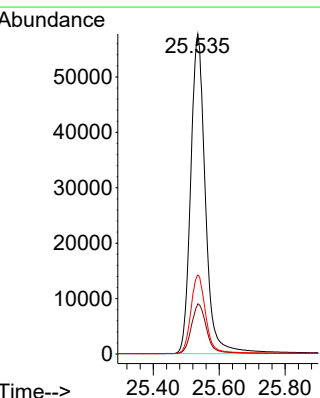
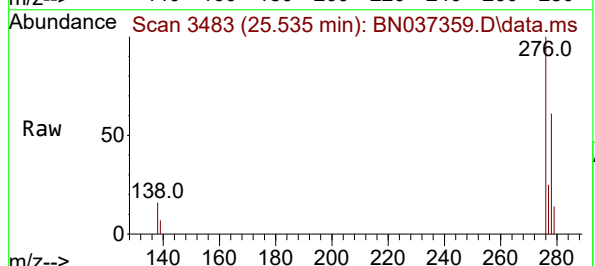
Tgt Ion:276 Resp: 178739

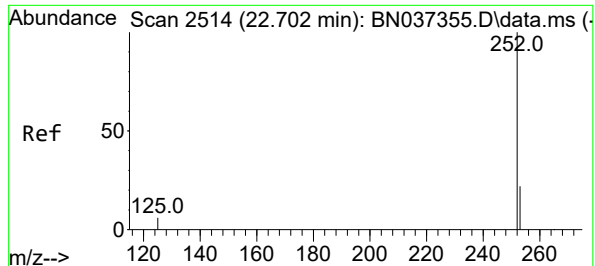
Ion Ratio Lower Upper

276 100

138 16.1 2.2 3.2#

277 24.9 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 5.595 ng

RT: 22.699 min Scan# 2513

Delta R.T. -0.003 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

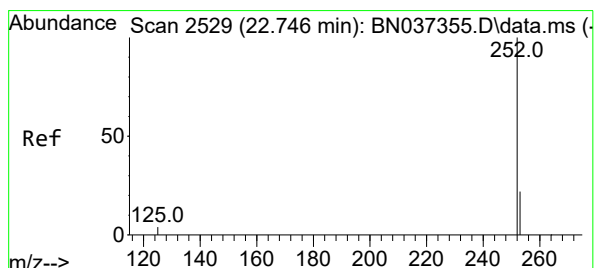
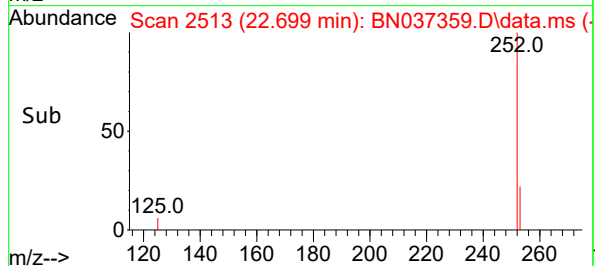
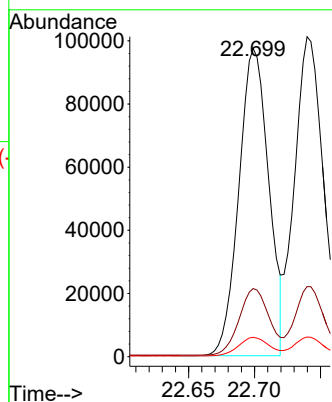
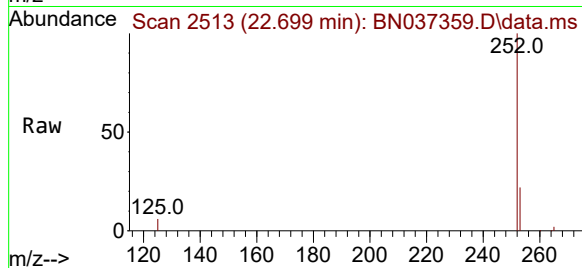
Tgt Ion:252 Resp: 152855

Ion Ratio Lower Upper

252 100

253 22.1 26.6 40.0#

125 6.3 6.1 9.1



#38

Benzo(k)fluoranthene

Concen: 5.473 ng

RT: 22.740 min Scan# 2527

Delta R.T. -0.006 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

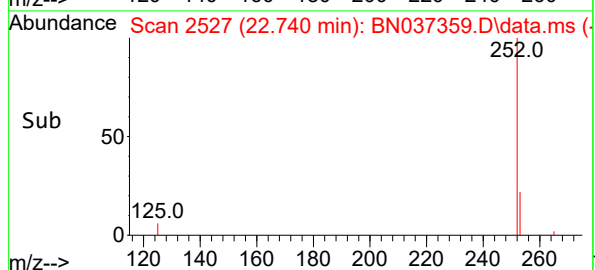
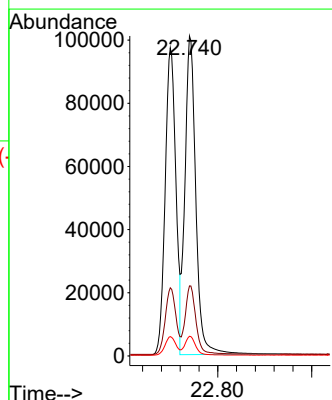
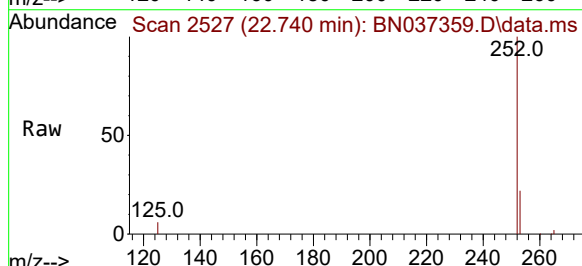
Tgt Ion:252 Resp: 162397

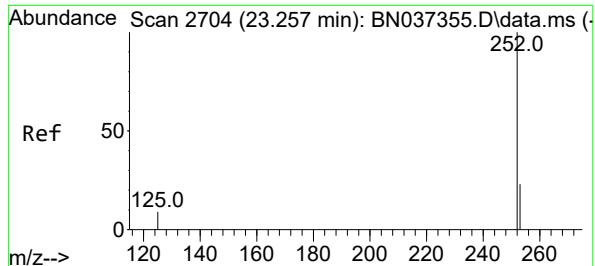
Ion Ratio Lower Upper

252 100

253 21.9 26.7 40.1#

125 6.2 6.5 9.7#





#39

Benzo(a)pyrene

Concen: 5.375 ng

RT: 23.254 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

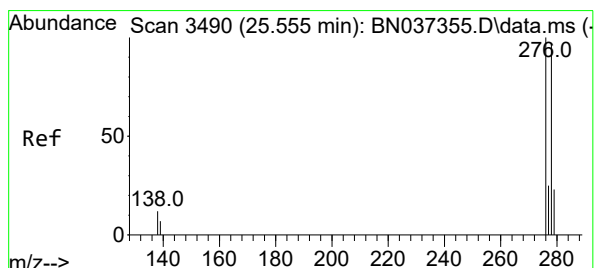
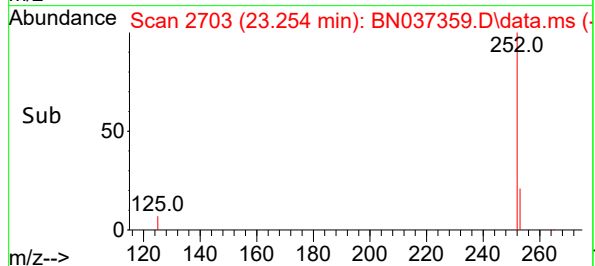
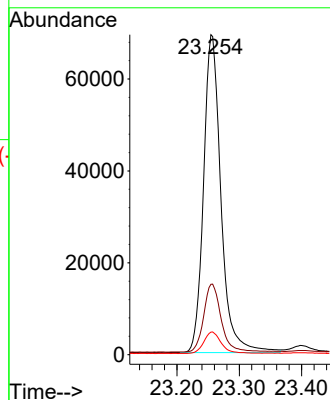
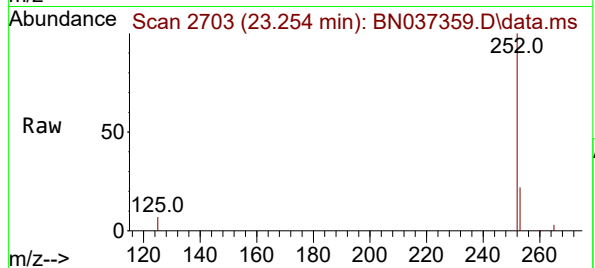
Tgt Ion:252 Resp: 134379

Ion Ratio Lower Upper

252 100

253 22.0 31.6 47.4#

125 7.0 8.4 12.6#



#40

Dibenzo(a,h)anthracene

Concen: 5.474 ng

RT: 25.549 min Scan# 3488

Delta R.T. -0.006 min

Lab File: BN037359.D

Acq: 20 Jun 2025 20:27

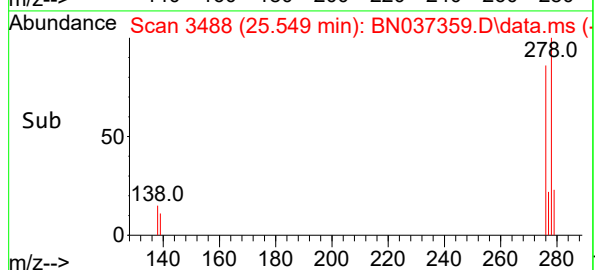
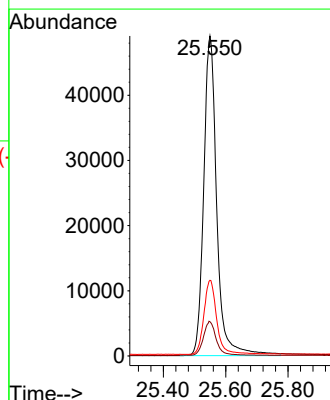
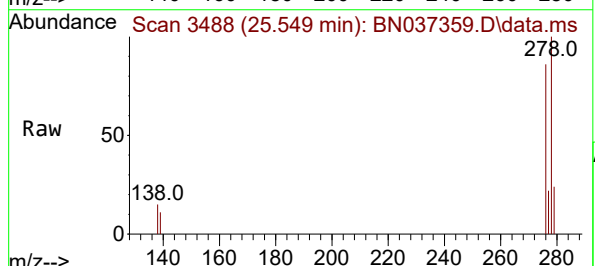
Tgt Ion:278 Resp: 142364

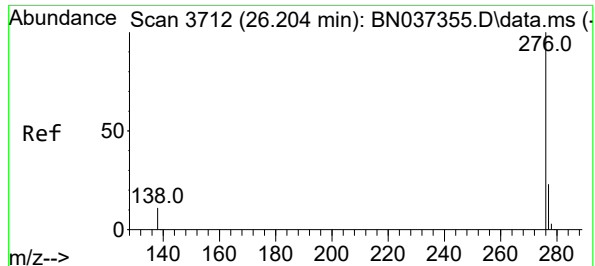
Ion Ratio Lower Upper

278 100

139 10.7 10.2 15.4

279 23.6 35.6 53.4#





#41

Benzo(g,h,i)perylene

Concen: 5.131 ng

RT: 26.199 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037359.D

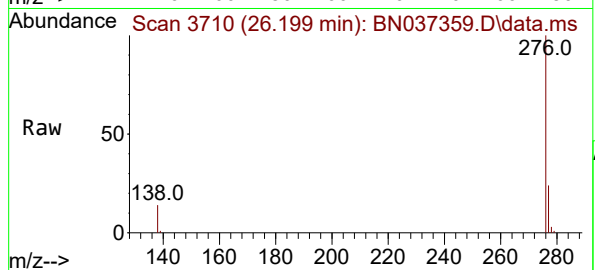
Acq: 20 Jun 2025 20:27

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



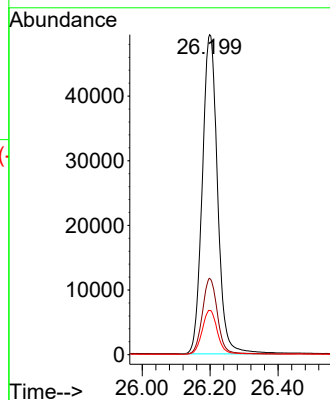
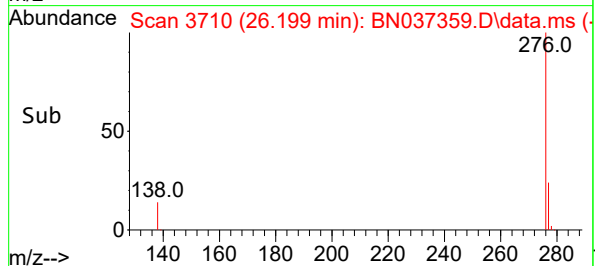
Tgt Ion:276 Resp: 153920

Ion Ratio Lower Upper

276 100

277 23.8 22.7 34.1

138 13.8 9.4 14.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037360.D
 Acq On : 20 Jun 2025 21:39
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN062125

Quant Time: Jun 20 23:48:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:41:54 2025
 Response via : Initial Calibration

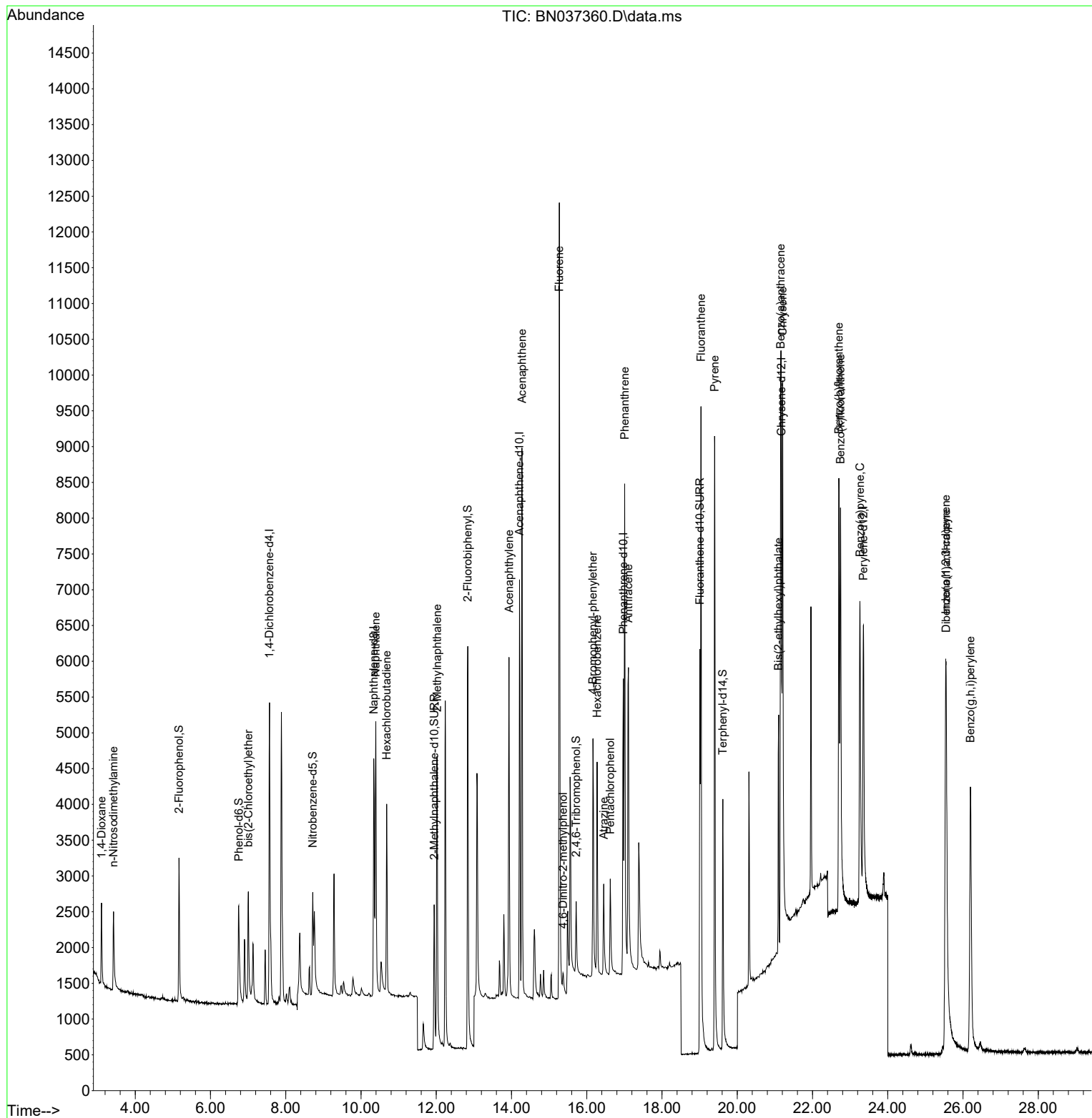
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	2309	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	5064	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	3457	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	7065	0.400	ng	# 0.00
29) Chrysene-d12	21.171	240	5560	0.400	ng	# 0.00
35) Perylene-d12	23.354	264	5756	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	1841	0.399	ng	0.00
5) Phenol-d6	6.752	99	1797	0.378	ng	0.00
8) Nitrobenzene-d5	8.717	82	1658	0.405	ng	0.00
11) 2-Methylnaphthalene-d10	11.945	152	3394	0.414	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	756	0.373	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	6049	0.398	ng	0.00
27) Fluoranthene-d10	19.008	212	7940	0.392	ng	0.00
31) Terphenyl-d14	19.616	244	5266	0.416	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.104	88	942	0.401	ng	91
3) n-Nitrosodimethylamine	3.422	42	845	0.393	ng	# 70
6) bis(2-Chloroethyl)ether	7.004	93	1718	0.407	ng	93
9) Naphthalene	10.394	128	5338	0.399	ng	# 89
10) Hexachlorobutadiene	10.682	225	2157	0.409	ng	# 99
12) 2-Methylnaphthalene	12.021	142	3620	0.388	ng	# 91
16) Acenaphthylene	13.935	152	5463	0.376	ng	98
17) Acenaphthene	14.277	154	3720	0.389	ng	99
18) Fluorene	15.272	166	5193	0.386	ng	99
20) 4,6-Dinitro-2-methylph...	15.368	198	491	0.289	ng	92
21) 4-Bromophenyl-phenylether	16.165	248	1905	0.379	ng	# 84
22) Hexachlorobenzene	16.276	284	2222	0.406	ng	98
23) Atrazine	16.450	200	1453	0.362	ng	# 84
24) Pentachlorophenol	16.624	266	881	0.323	ng	97
25) Phenanthrene	17.009	178	7743	0.378	ng	99
26) Anthracene	17.108	178	6739	0.357	ng	99
28) Fluoranthene	19.036	202	9535	0.369	ng	# 99
30) Pyrene	19.398	202	9570	0.424	ng	100
32) Benzo(a)anthracene	21.153	228	6805	0.372	ng	99
33) Chrysene	21.207	228	9119	0.412	ng	98
34) Bis(2-ethylhexyl)phtha...	21.099	149	3022	0.403	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.541	276	9492	0.368	ng	# 92
37) Benzo(b)fluoranthene	22.702	252	8083m	0.382	ng	
38) Benzo(k)fluoranthene	22.746	252	9472	0.412	ng	95
39) Benzo(a)pyrene	23.260	252	7258	0.382	ng	# 89
40) Dibenzo(a,h)anthracene	25.553	278	7116	0.367	ng	# 87
41) Benzo(g,h,i)perylene	26.199	276	8707	0.378	ng	95

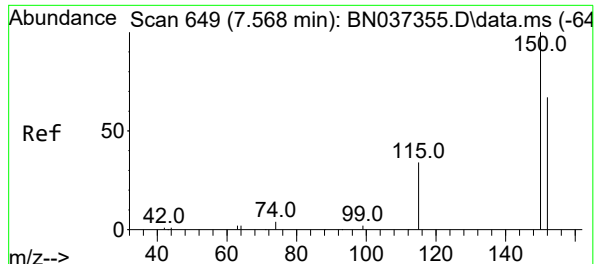
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037360.D
Acq On : 20 Jun 2025 21:39
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Quant Time: Jun 20 23:48:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration

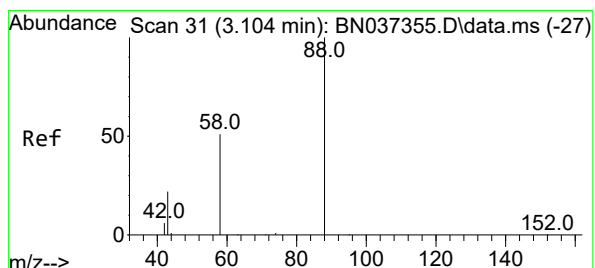
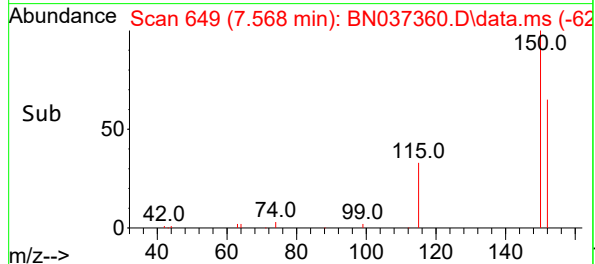
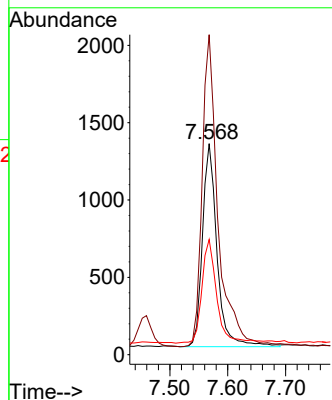
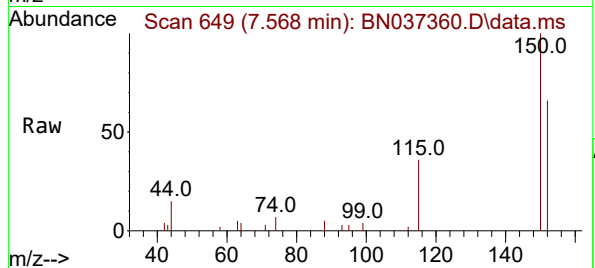




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

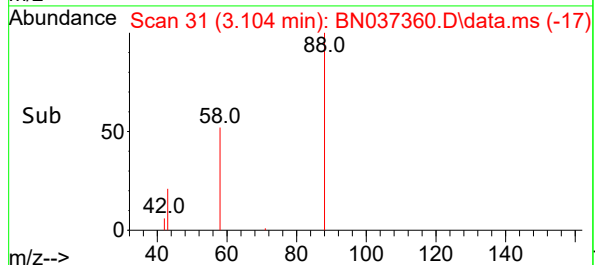
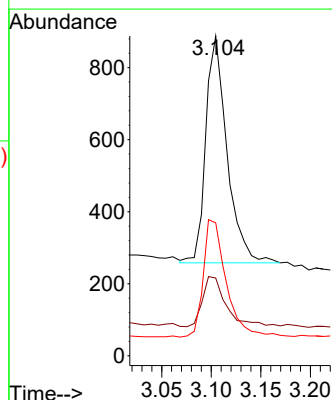
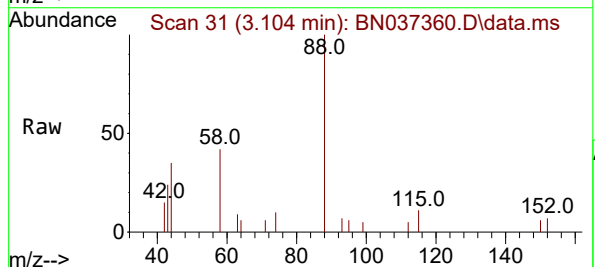
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

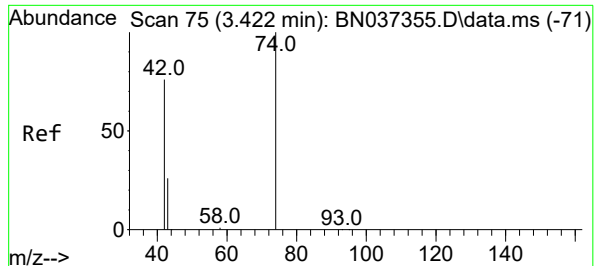
Tgt Ion:152 Resp: 2309
Ion Ratio Lower Upper
152 100
150 151.6 112.7 169.1
115 54.6 45.9 68.9



#2
1,4-Dioxane
Concen: 0.401 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion: 88 Resp: 942
Ion Ratio Lower Upper
88 100
43 24.5 21.0 31.6
58 55.4 38.0 57.0

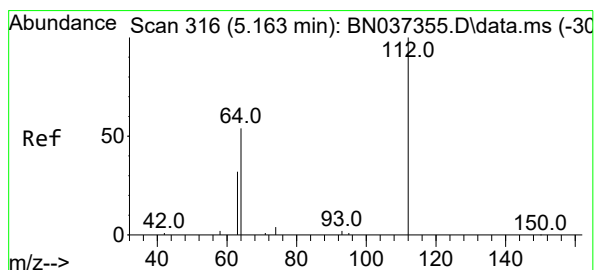
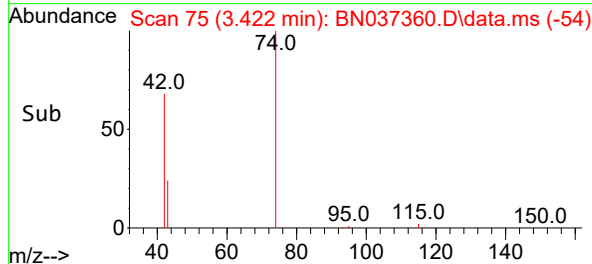
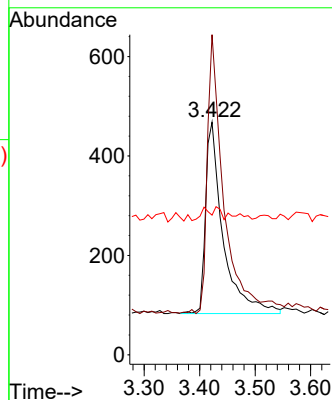
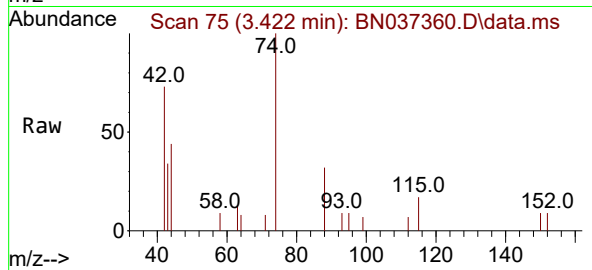




#3
n-Nitrosodimethylamine
Concen: 0.393 ng
RT: 3.422 min Scan# 75
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

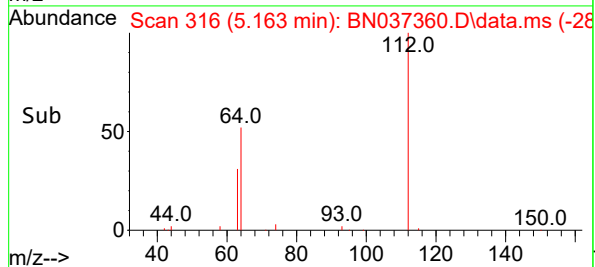
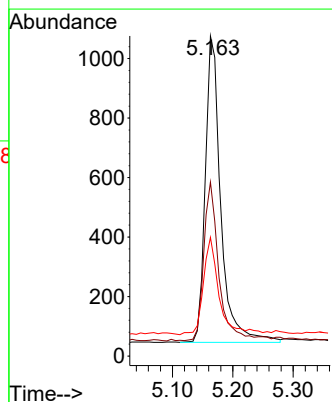
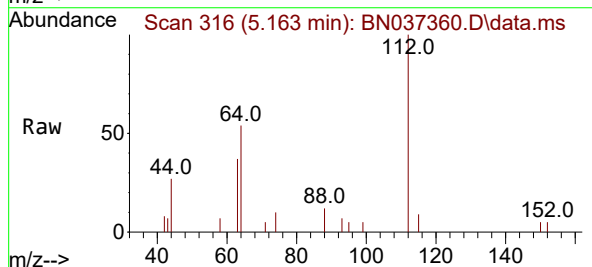
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

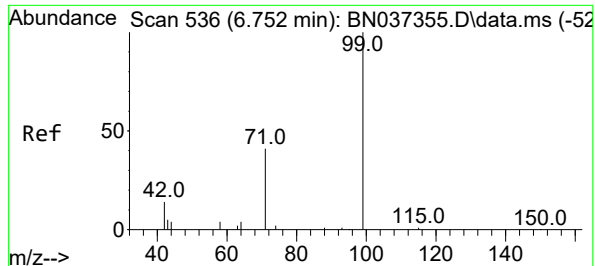
Tgt Ion: 42 Resp: 845
Ion Ratio Lower Upper
42 100
74 137.3 84.3 126.5#
44 2.5 5.0 7.4#



#4
2-Fluorophenol
Concen: 0.399 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion: 112 Resp: 1841
Ion Ratio Lower Upper
112 100
64 50.3 38.7 58.1
63 31.9 26.4 39.6

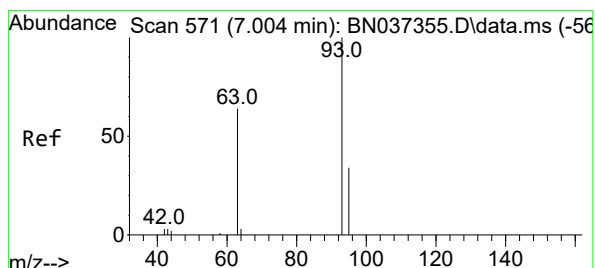
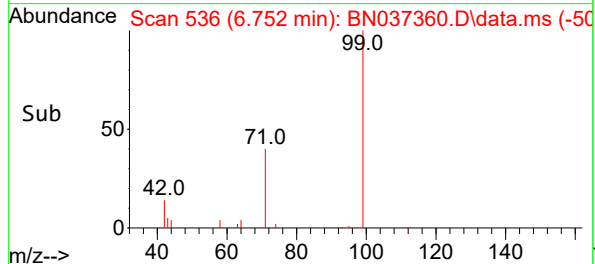
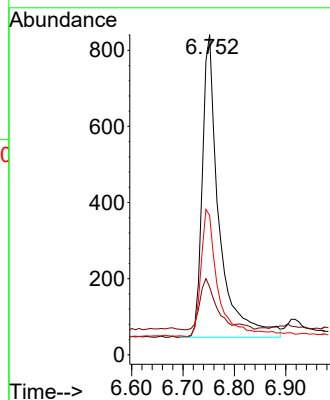
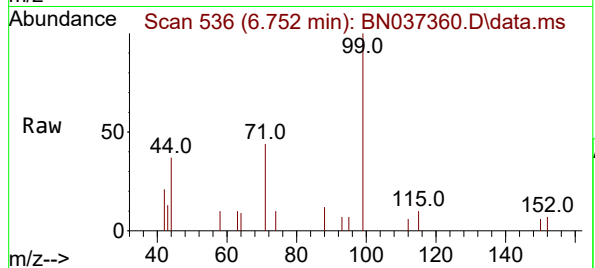




#5
Phenol-d6
Concen: 0.378 ng
RT: 6.752 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

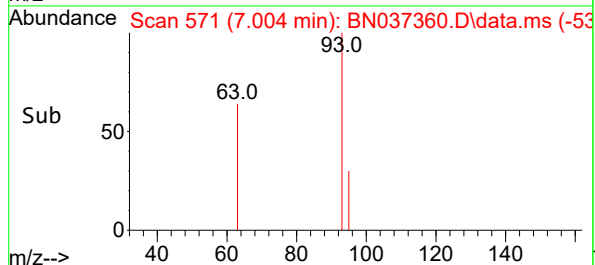
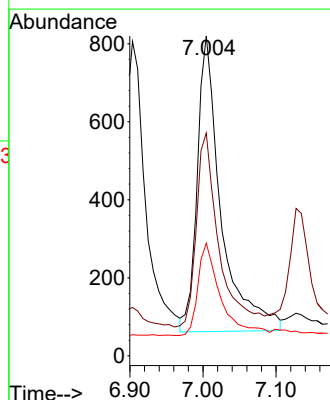
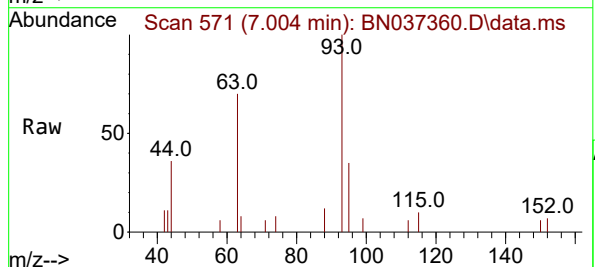
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

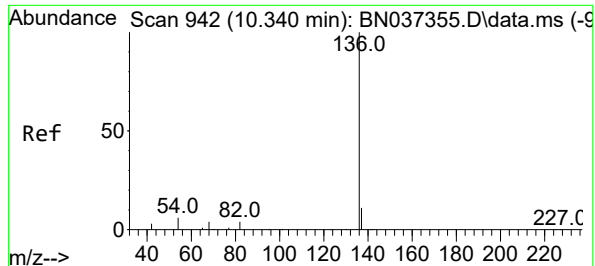
Tgt Ion: 99 Resp: 1797
Ion Ratio Lower Upper
99 100
42 15.9 19.8 29.8#
71 43.3 42.6 64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.407 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion: 93 Resp: 1718
Ion Ratio Lower Upper
93 100
63 61.8 53.2 79.8
95 29.5 27.3 40.9

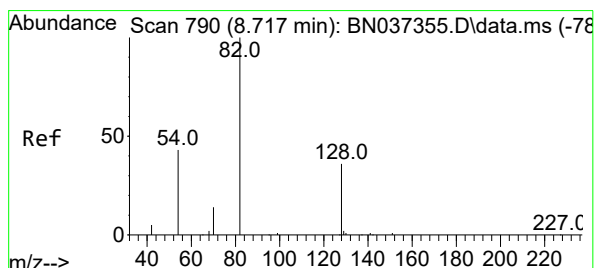
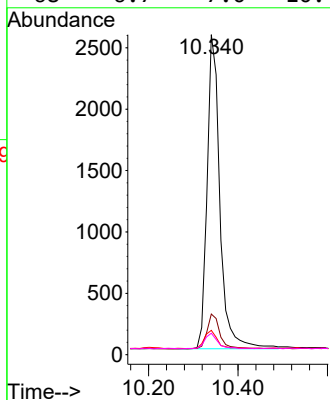
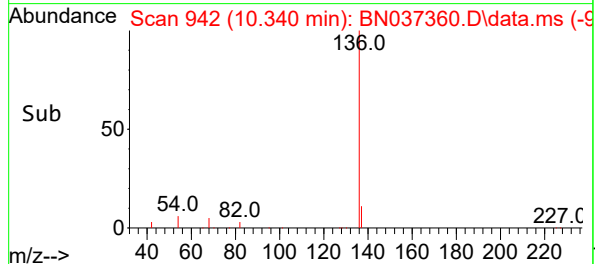
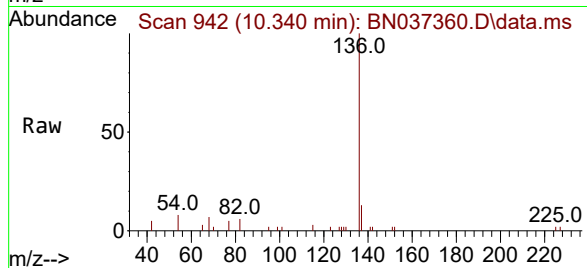




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

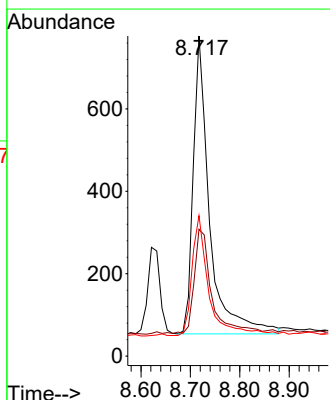
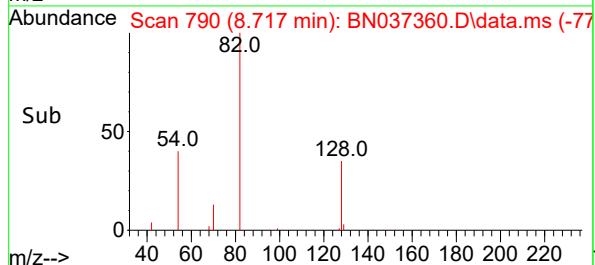
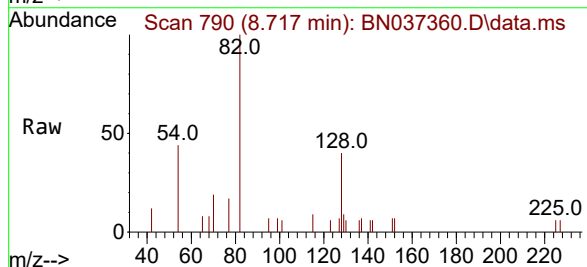
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

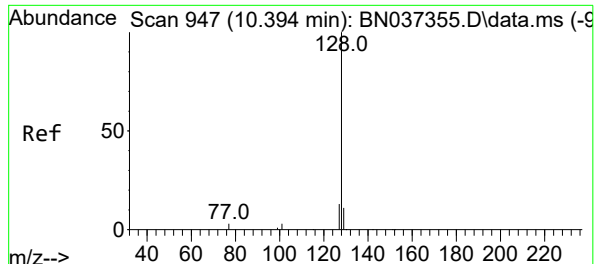
Tgt Ion:	136	Resp:	5064
Ion	Ratio	Lower	Upper
136	100		
137	12.7	12.2	18.2
54	7.6	8.8	13.2#
68	6.7	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 0.405 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:	82	Resp:	1658
Ion	Ratio	Lower	Upper
82	100		
128	39.6	42.5	63.7#
54	43.9	43.2	64.8

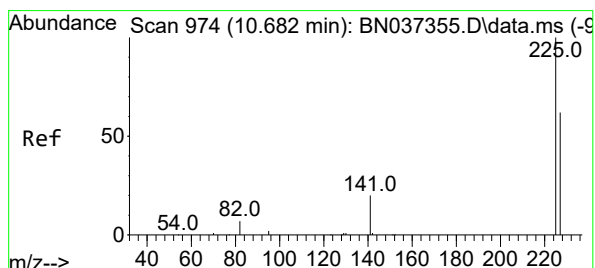
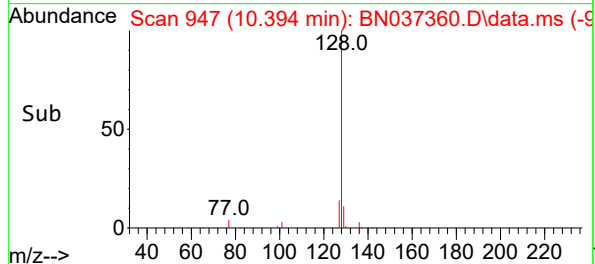
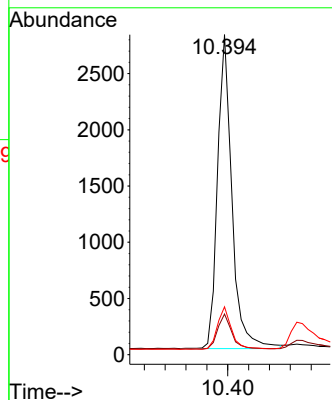
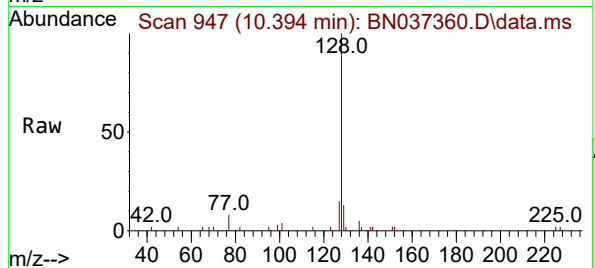




#9
Naphthalene
Concen: 0.399 ng
RT: 10.394 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

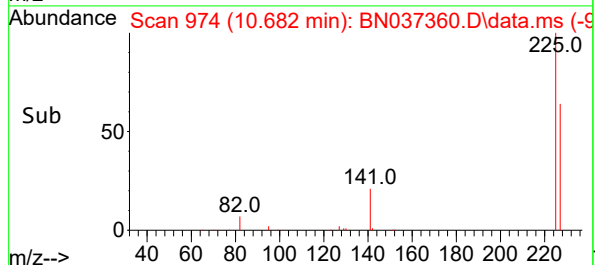
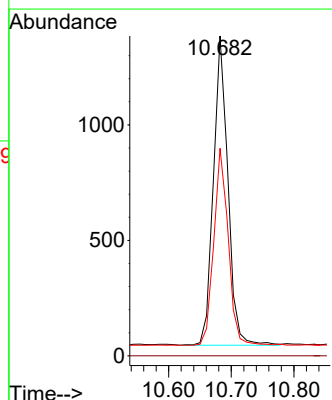
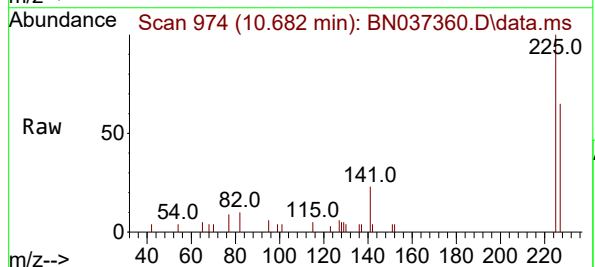
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

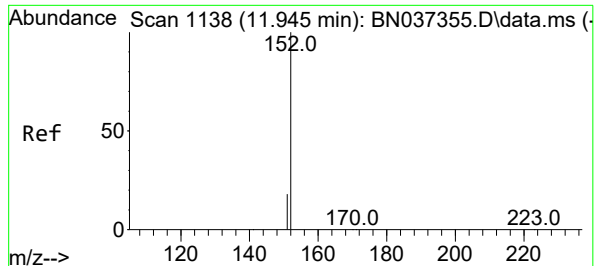
Tgt Ion	Ratio	Lower	Upper
128	100		
129	12.7	14.0	21.0#
127	15.0	15.8	23.8#



#10
Hexachlorobutadiene
Concen: 0.409 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.3	50.3	75.5

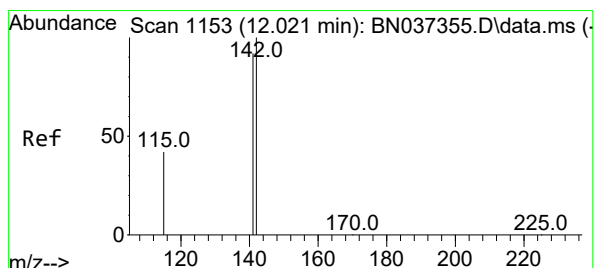
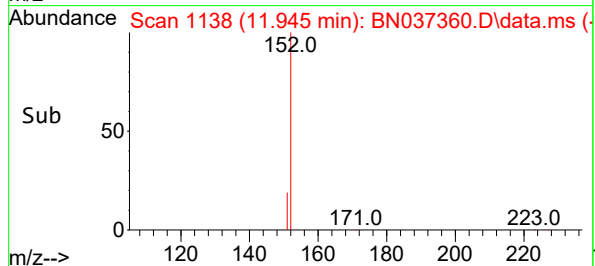
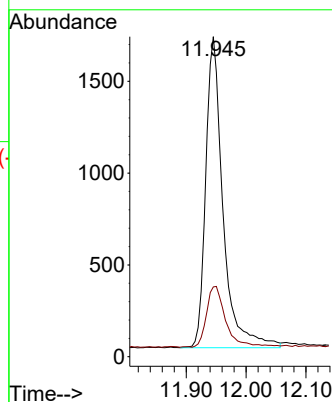
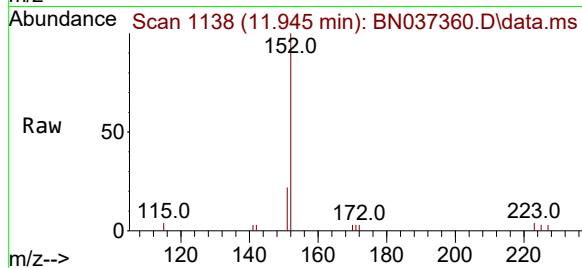




#11
2-Methylnaphthalene-d10
Concen: 0.414 ng
RT: 11.945 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

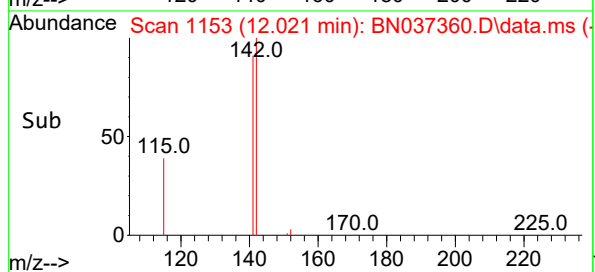
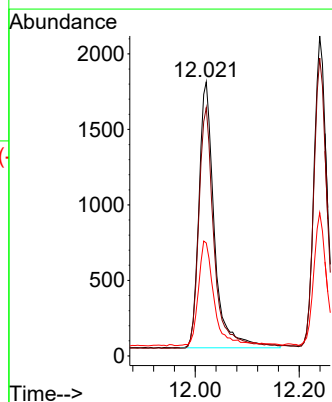
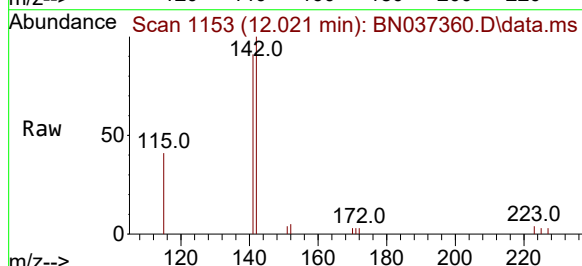
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

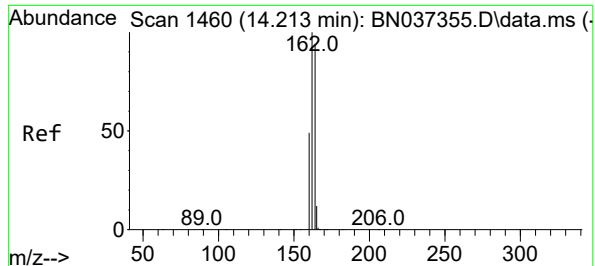
Tgt Ion:152 Resp: 3394
Ion Ratio Lower Upper
152 100
151 22.0 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:142 Resp: 3620
Ion Ratio Lower Upper
142 100
141 90.6 70.2 105.2
115 41.2 43.0 64.4#

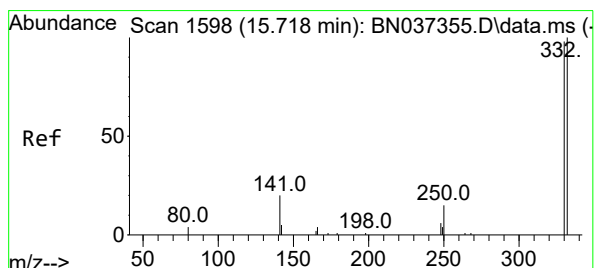
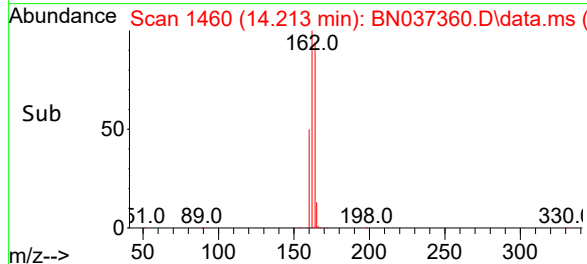
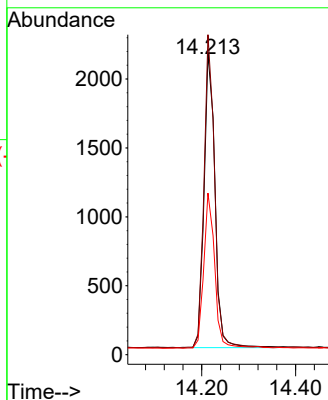
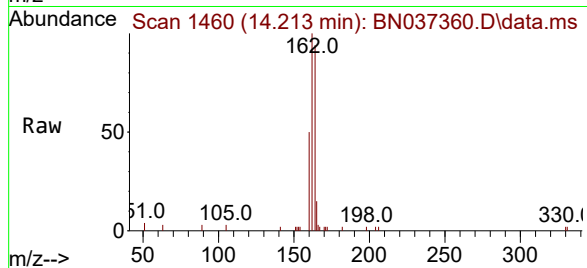




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

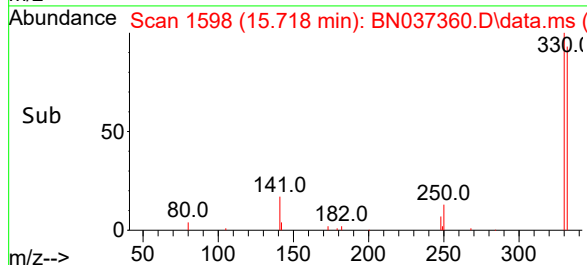
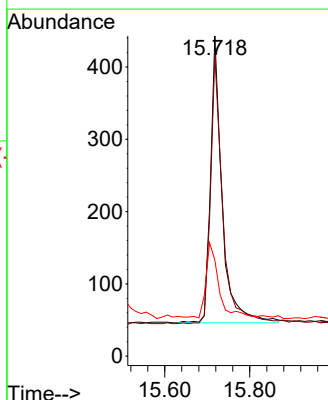
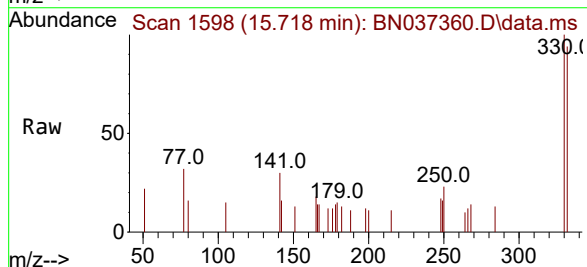
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

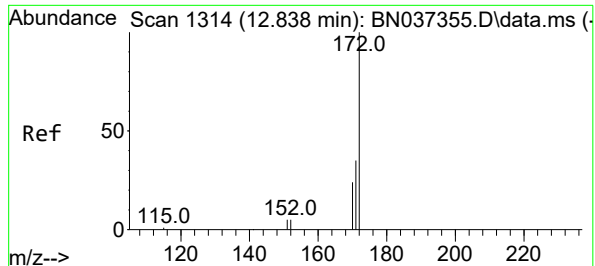
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.3	81.5	122.3
160	53.6	43.0	64.4



#14
2,4,6-Tribromophenol
Concen: 0.373 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion	Ratio	Lower	Upper
330	100		
332	96.7	78.4	117.6
141	28.0	24.4	36.6





#15

2-Fluorobiphenyl

Concen: 0.398 ng

RT: 12.838 min Scan# 1314

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125

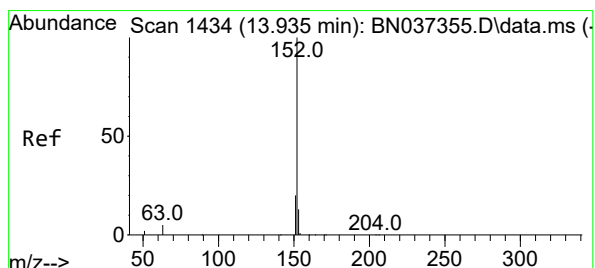
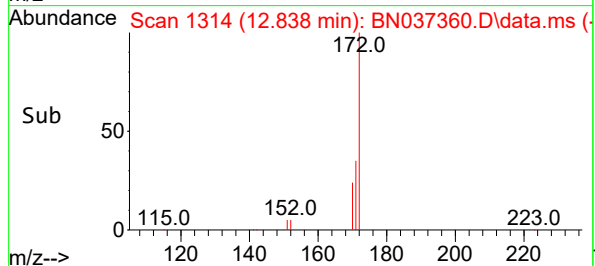
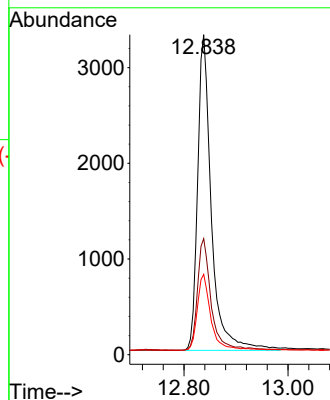
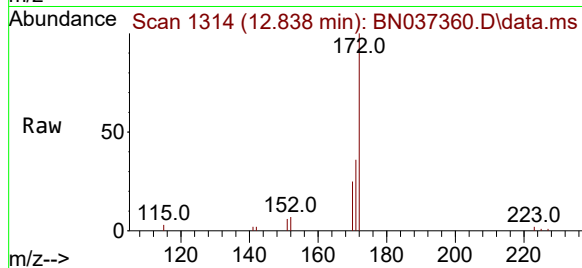
Tgt Ion:172 Resp: 6049

Ion Ratio Lower Upper

172 100

171 36.2 30.8 46.2

170 25.1 21.9 32.9



#16

Acenaphthylene

Concen: 0.376 ng

RT: 13.935 min Scan# 1434

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

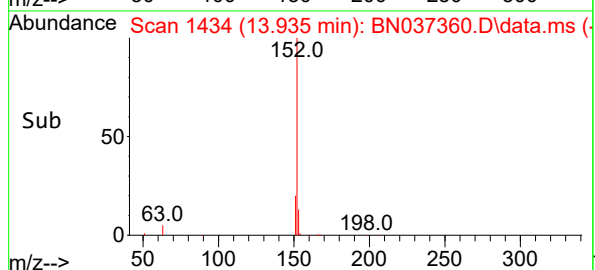
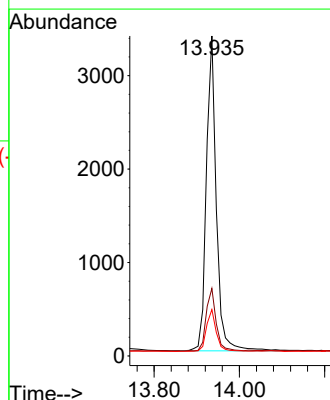
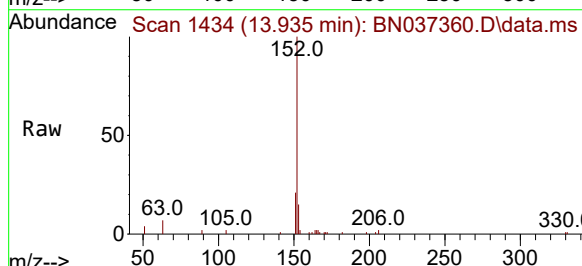
Tgt Ion:152 Resp: 5463

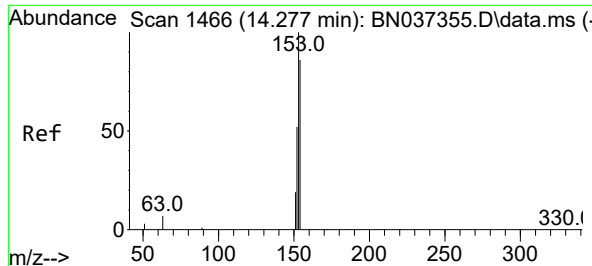
Ion Ratio Lower Upper

152 100

151 19.8 16.6 24.8

153 13.3 10.2 15.2

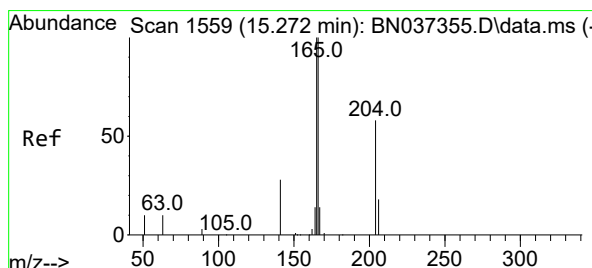
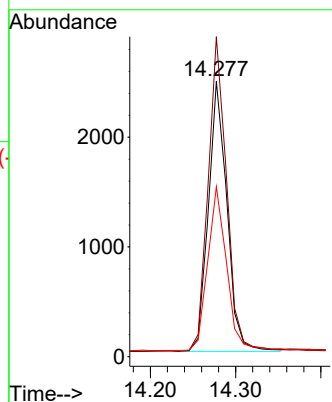
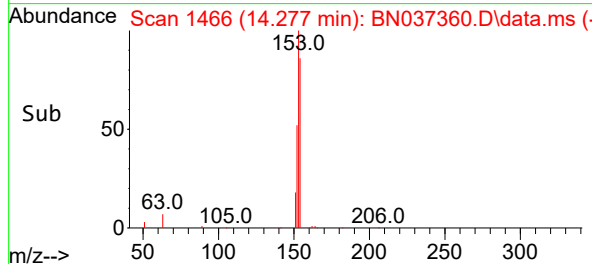
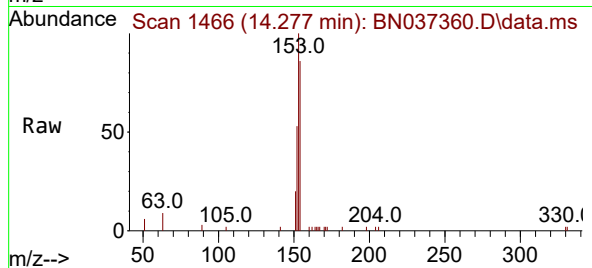




#17
Acenaphthene
Concen: 0.389 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

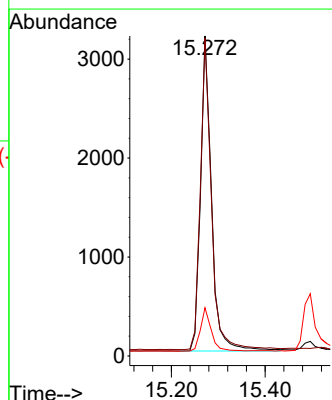
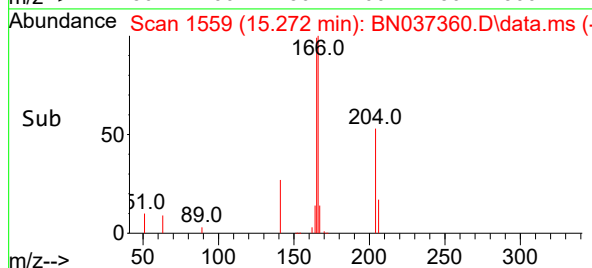
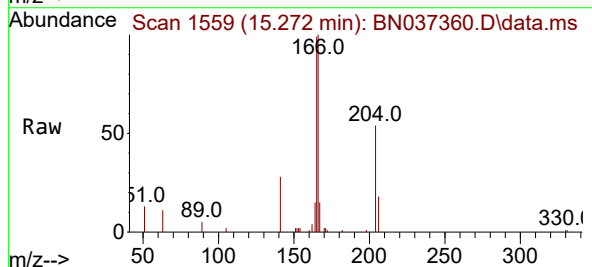
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

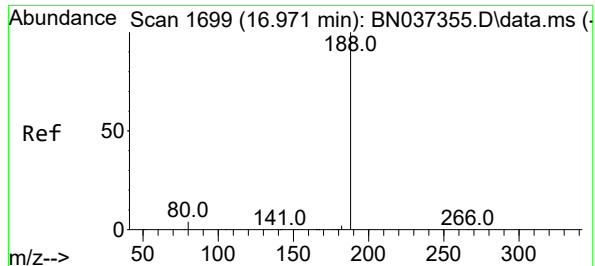
Tgt Ion	Ratio	Lower	Upper
154	100		
153	117.1	93.1	139.7
152	62.3	48.6	73.0



#18
Fluorene
Concen: 0.386 ng
RT: 15.272 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.5	119.3
167	13.4	10.7	16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125

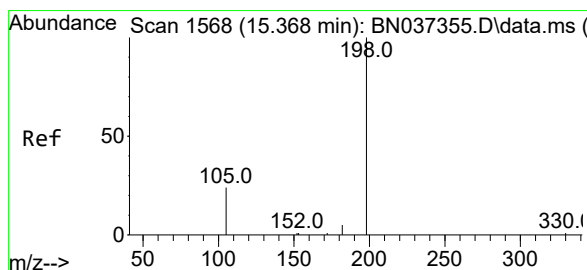
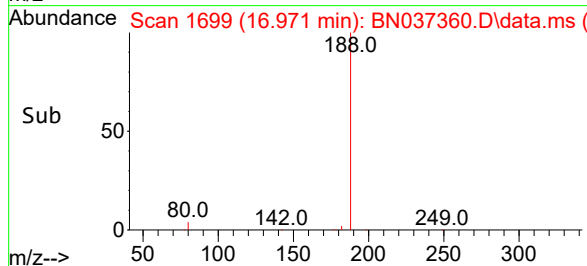
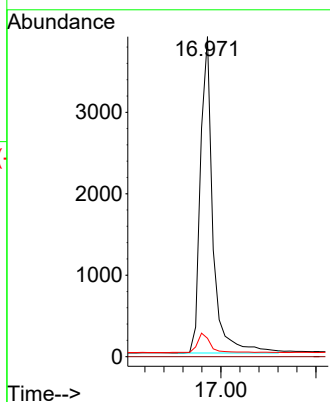
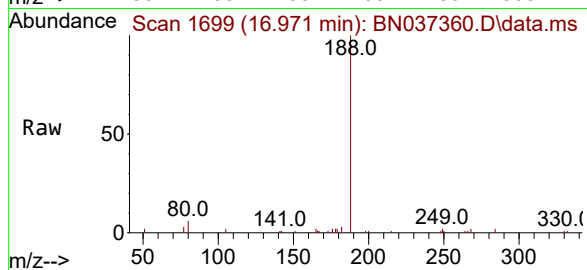
Tgt Ion:188 Resp: 7065

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.7 6.2 9.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.289 ng

RT: 15.368 min Scan# 1568

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

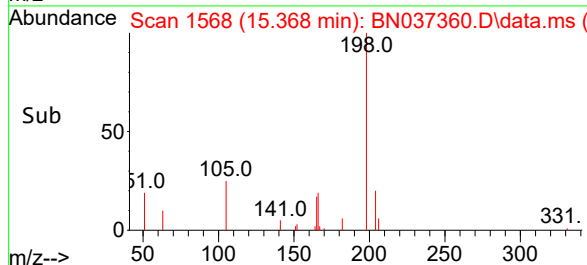
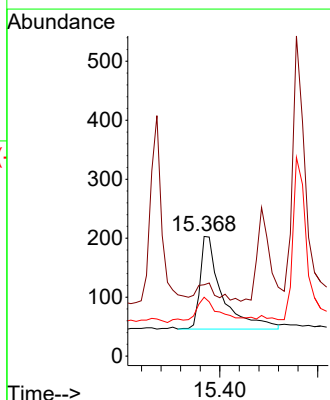
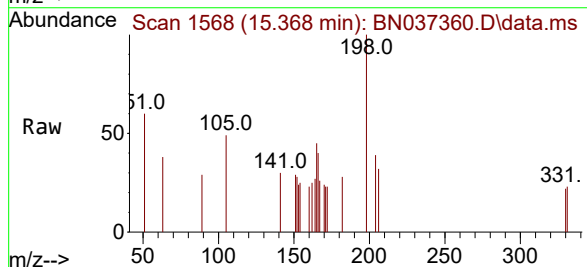
Tgt Ion:198 Resp: 491

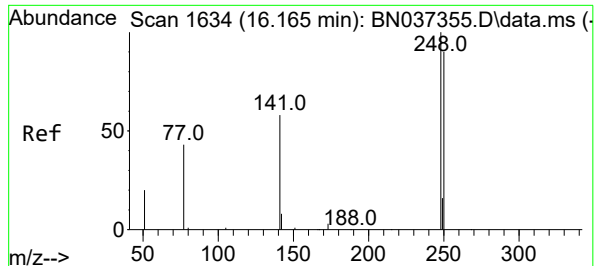
Ion Ratio Lower Upper

198 100

51 59.6 51.4 77.0

105 49.3 45.5 68.3

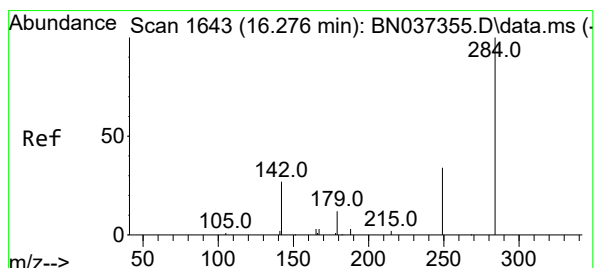
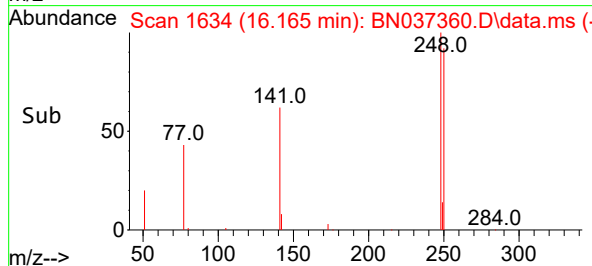
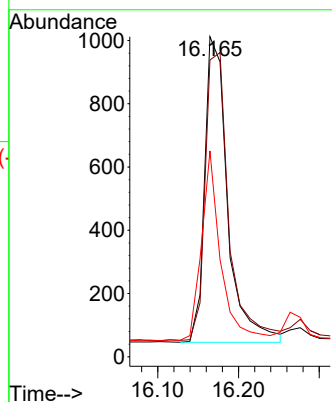
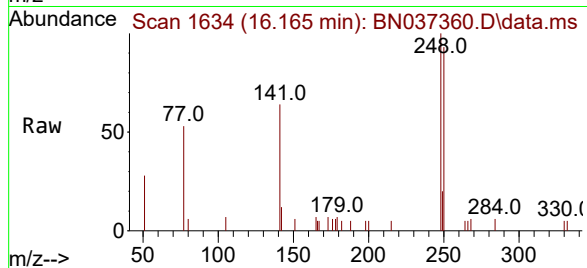




#21
4-Bromophenyl-phenylether
Concen: 0.379 ng
RT: 16.165 min Scan# 1634
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

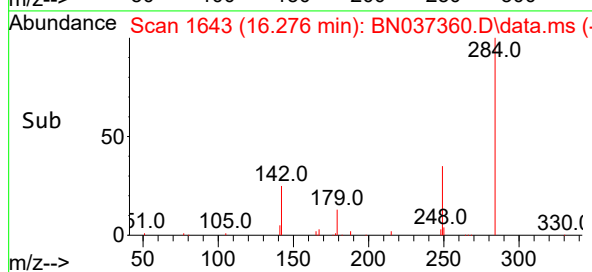
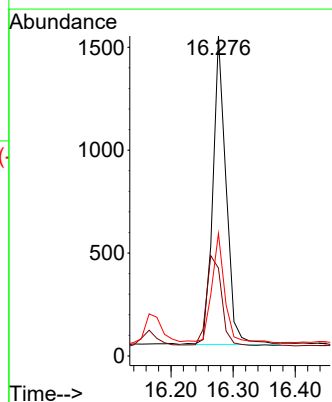
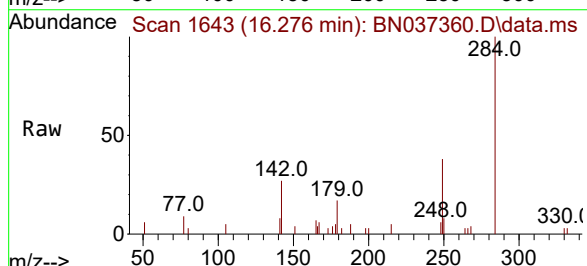
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

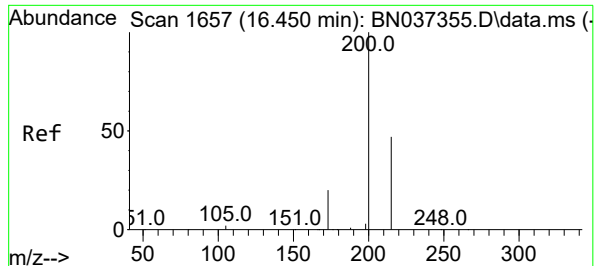
Tgt Ion	Ratio	Lower	Upper
248	100		
250	92.7	80.4	120.6
141	64.3	33.3	49.9



#22
Hexachlorobenzene
Concen: 0.406 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion	Ratio	Lower	Upper
284	100		
142	33.0	27.0	40.6
249	35.0	28.8	43.2

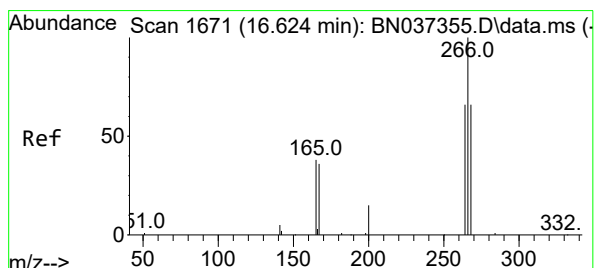
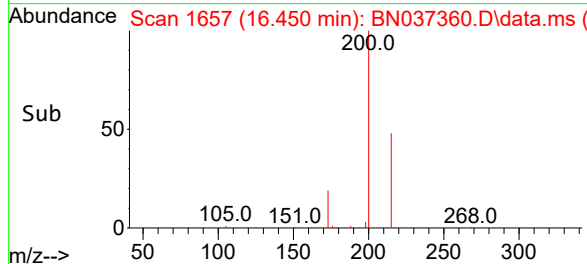
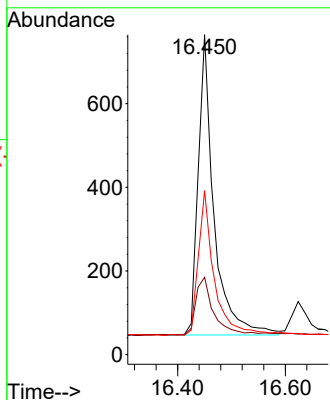
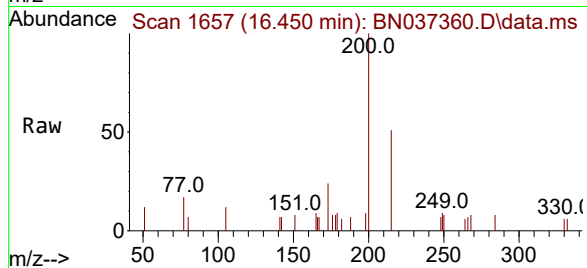




#23
Atrazine
Concen: 0.362 ng
RT: 16.450 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

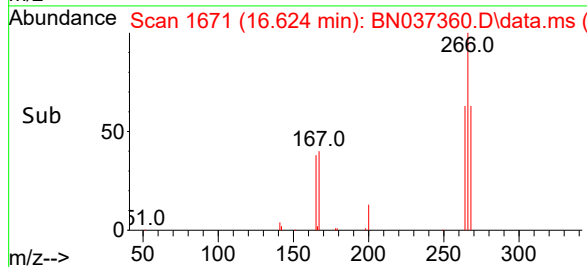
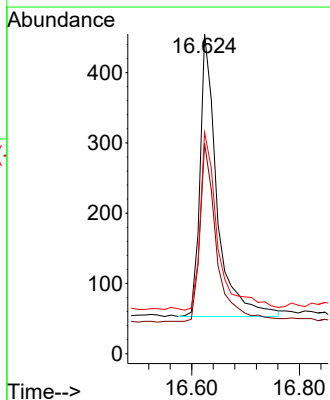
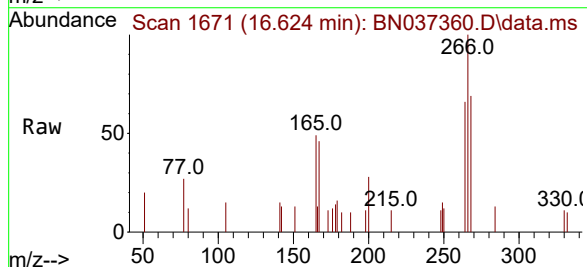
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

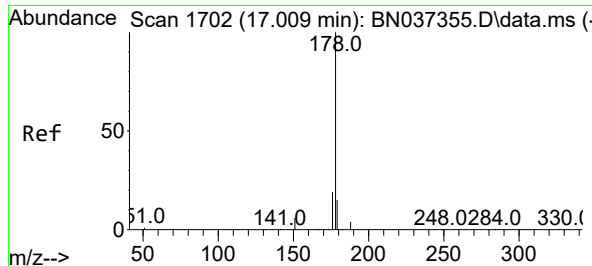
Tgt Ion:200 Resp: 1453
Ion Ratio Lower Upper
200 100
173 24.2 29.2 43.8#
215 51.2 48.8 73.2



#24
Pentachlorophenol
Concen: 0.323 ng
RT: 16.624 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:266 Resp: 881
Ion Ratio Lower Upper
266 100
264 63.5 50.3 75.5
268 65.0 55.3 82.9

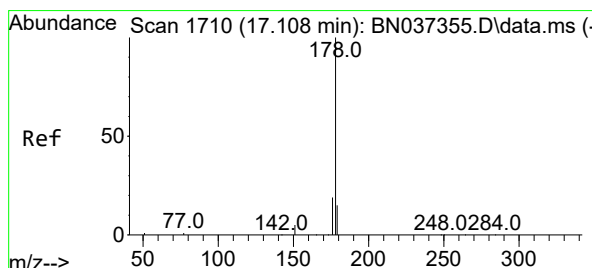
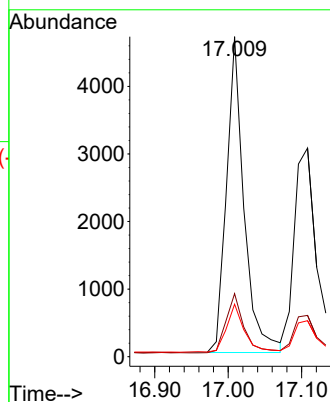
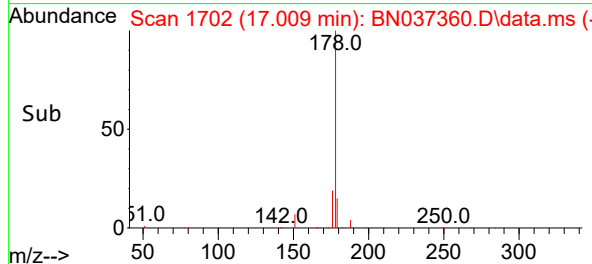
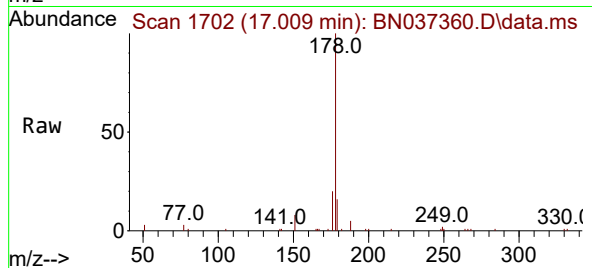




#25
Phenanthrene
Concen: 0.378 ng
RT: 17.009 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

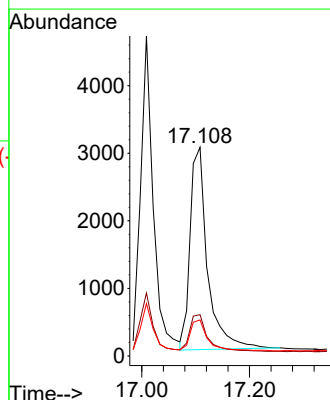
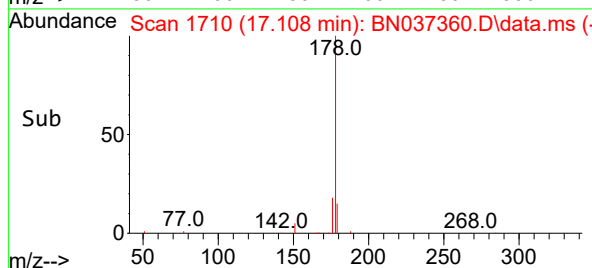
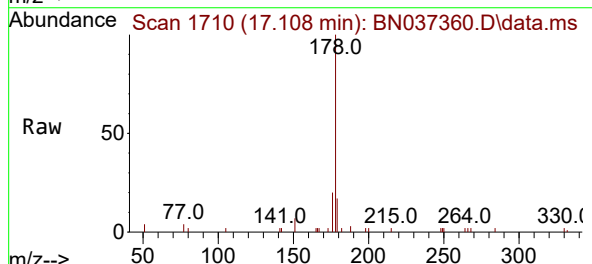
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

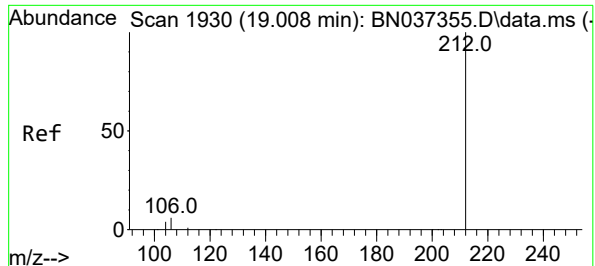
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.2	22.8
179	15.5	12.9	19.3



#26
Anthracene
Concen: 0.357 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.7	22.1
179	15.7	13.0	19.6





#27

Fluoranthene-d10

Concen: 0.392 ng

RT: 19.008 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125

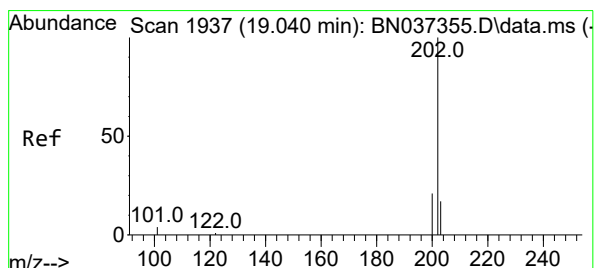
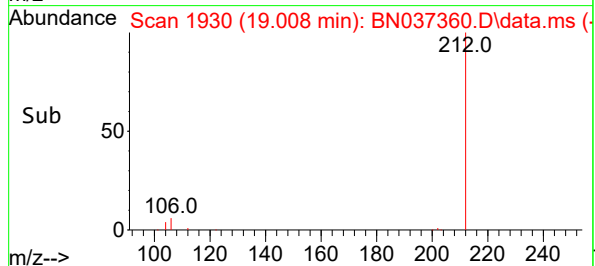
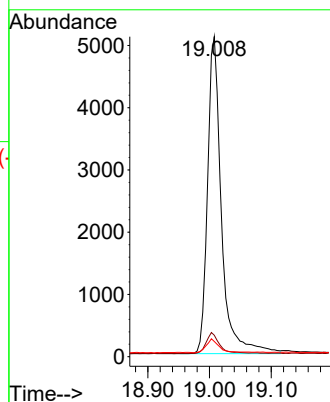
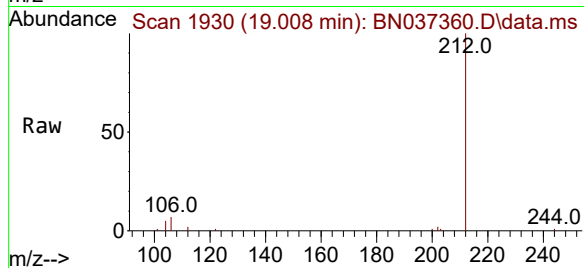
Tgt Ion:212 Resp: 7940

Ion Ratio Lower Upper

212 100

106 6.2 3.0 4.4#

104 3.9 2.0 3.0#



#28

Fluoranthene

Concen: 0.369 ng

RT: 19.036 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

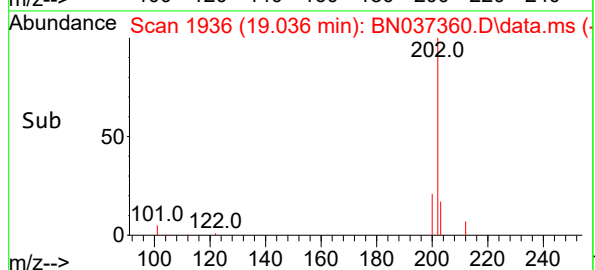
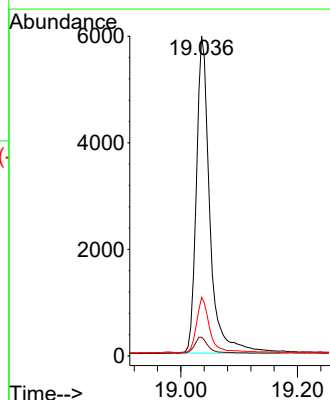
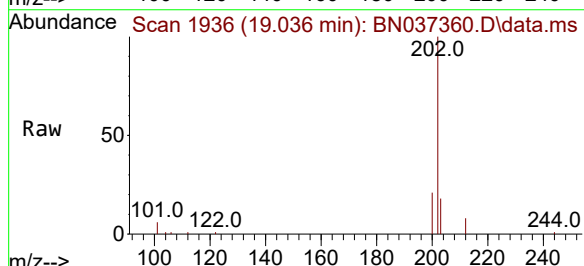
Tgt Ion:202 Resp: 9535

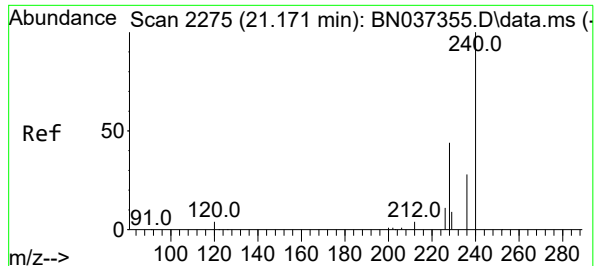
Ion Ratio Lower Upper

202 100

101 5.3 3.0 4.6#

203 16.8 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125

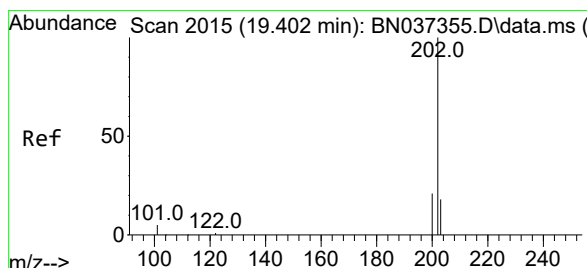
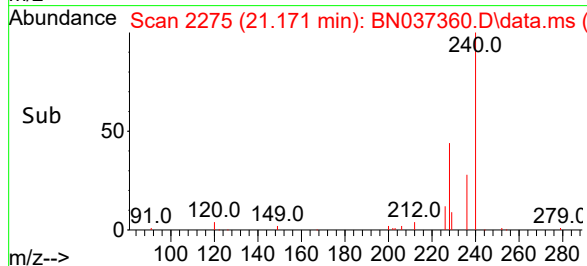
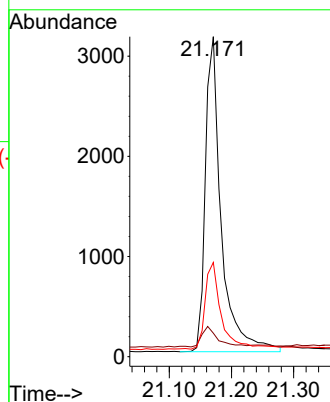
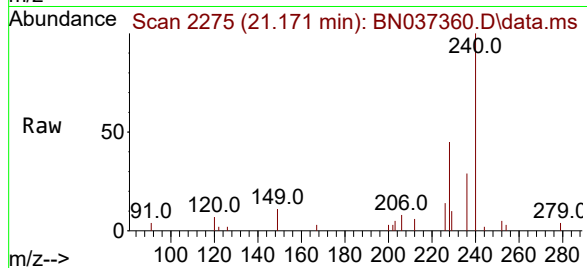
Tgt Ion:240 Resp: 5560

Ion Ratio Lower Upper

240 100

120 7.3 7.5 11.3#

236 29.5 24.9 37.3



#30

Pyrene

Concen: 0.424 ng

RT: 19.398 min Scan# 2014

Delta R.T. -0.005 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

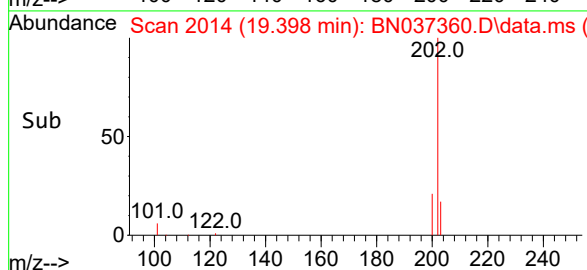
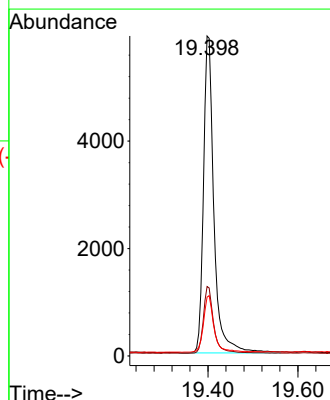
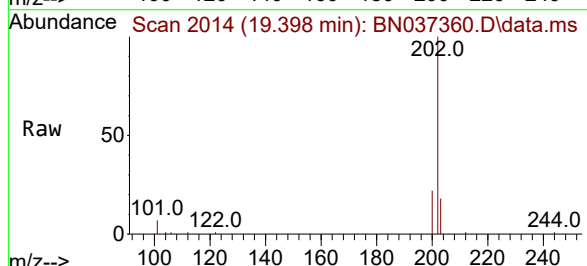
Tgt Ion:202 Resp: 9570

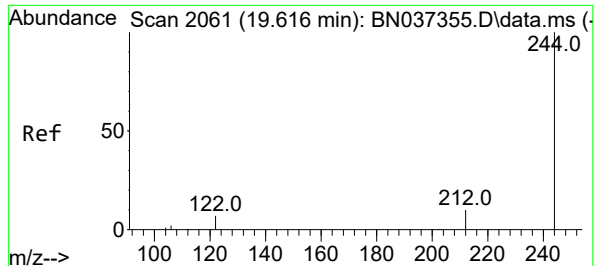
Ion Ratio Lower Upper

202 100

200 20.7 16.8 25.2

203 18.0 14.5 21.7





#31

Terphenyl-d14

Concen: 0.416 ng

RT: 19.616 min Scan# 2061

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125

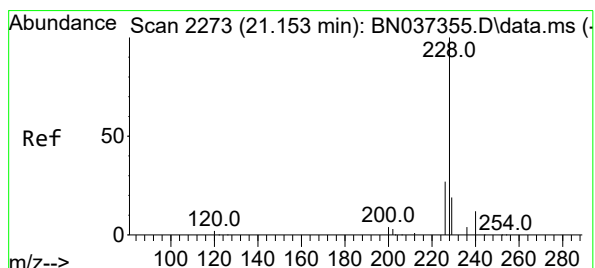
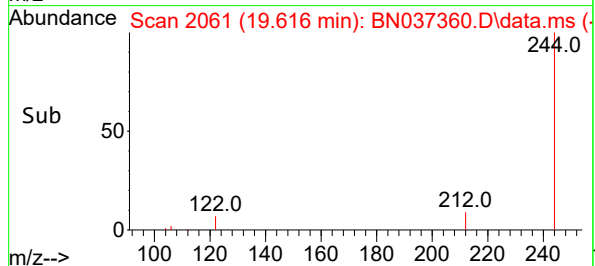
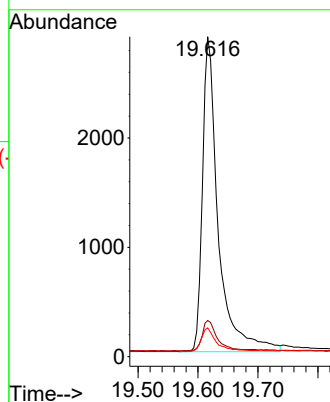
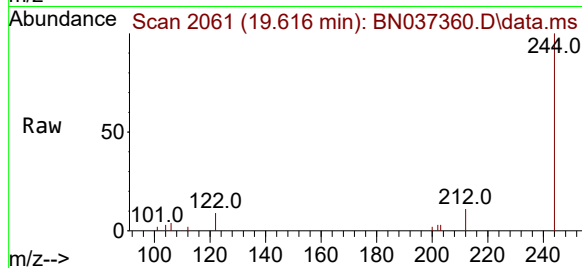
Tgt Ion:244 Resp: 5266

Ion Ratio Lower Upper

244 100

212 11.3 11.1 16.7

122 9.0 7.2 10.8



#32

Benzo(a)anthracene

Concen: 0.372 ng

RT: 21.153 min Scan# 2273

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

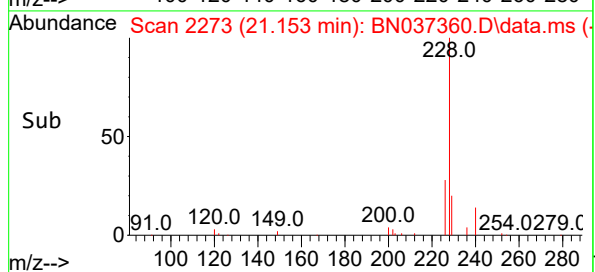
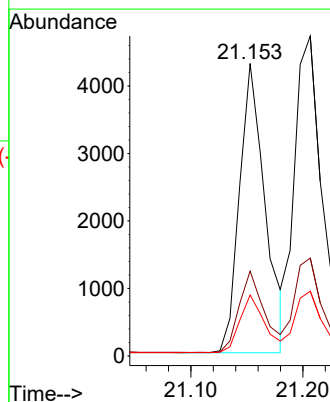
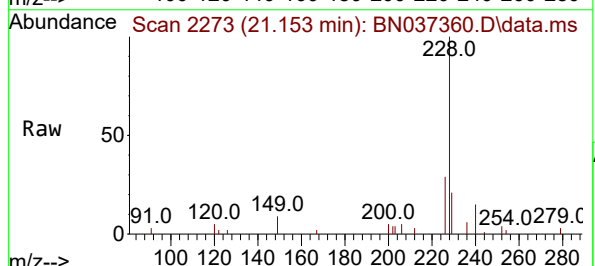
Tgt Ion:228 Resp: 6805

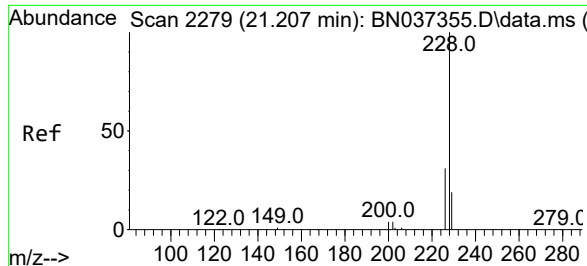
Ion Ratio Lower Upper

228 100

226 29.0 23.0 34.4

229 20.9 17.4 26.0





#33

Chrysene

Concen: 0.412 ng

RT: 21.207 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125

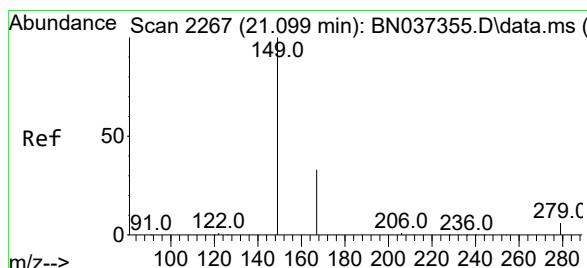
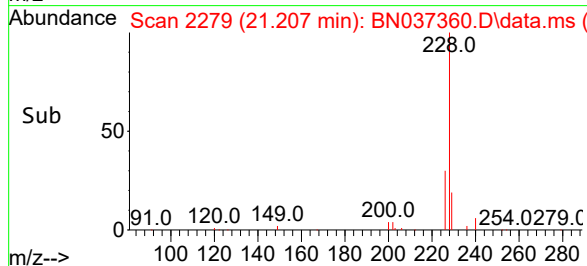
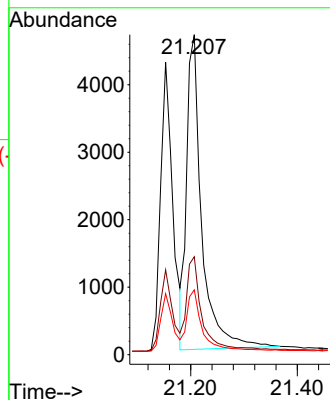
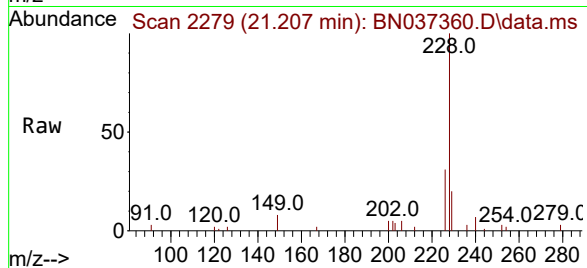
Tgt Ion:228 Resp: 9119

Ion Ratio Lower Upper

228 100

226 30.6 25.4 38.2

229 20.3 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.403 ng

RT: 21.099 min Scan# 2267

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

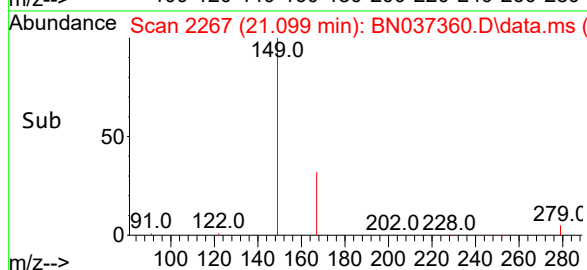
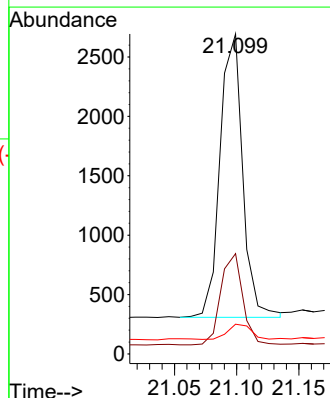
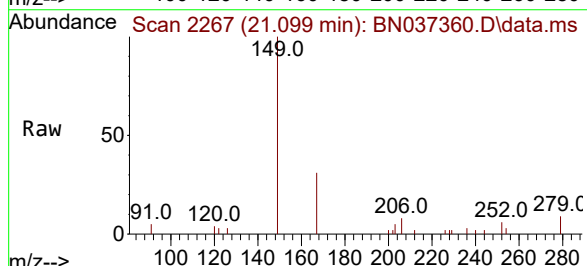
Tgt Ion:149 Resp: 3022

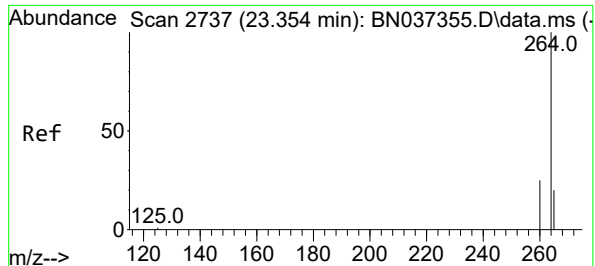
Ion Ratio Lower Upper

149 100

167 31.4 24.6 37.0

279 5.6 6.5 9.7#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.354 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125

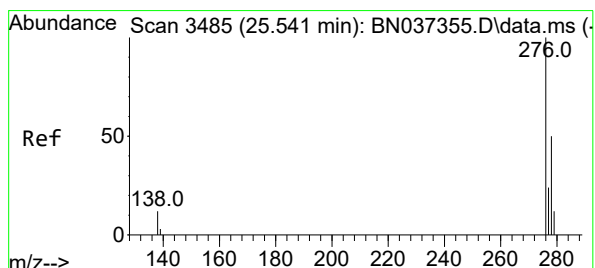
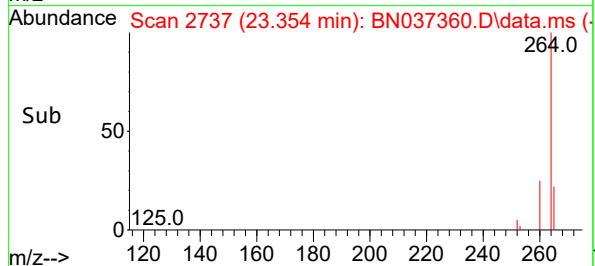
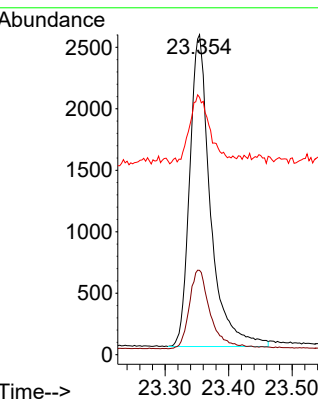
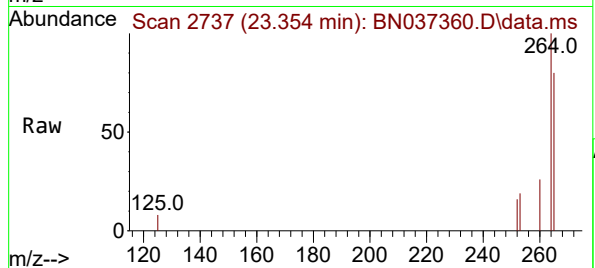
Tgt Ion:264 Resp: 5756

Ion Ratio Lower Upper

264 100

260 26.4 21.4 32.2

265 80.4 71.4 107.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.368 ng

RT: 25.541 min Scan# 3485

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

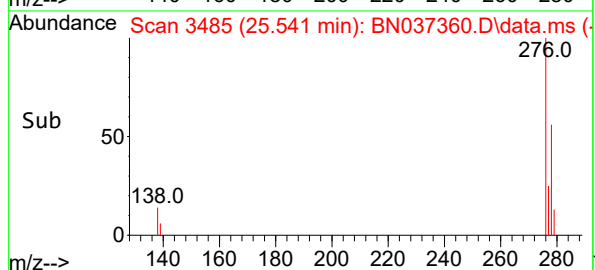
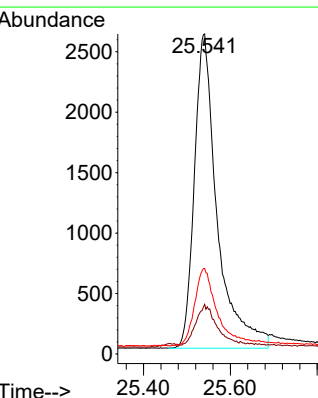
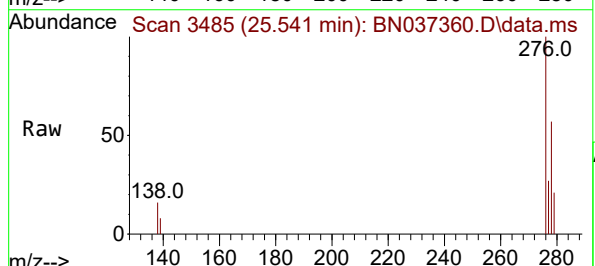
Tgt Ion:276 Resp: 9492

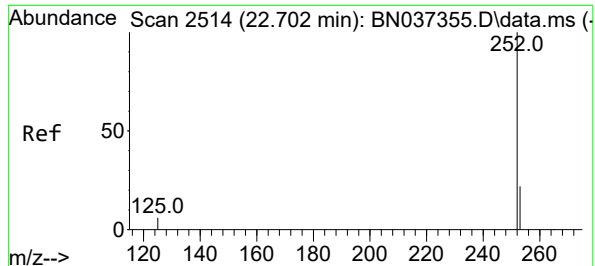
Ion Ratio Lower Upper

276 100

138 11.7 2.2 3.2#

277 24.2 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 0.382 ng m

RT: 22.702 min Scan# 2514

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125

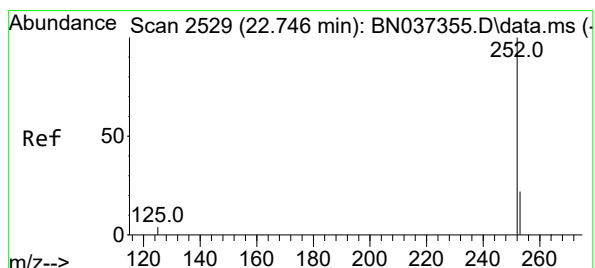
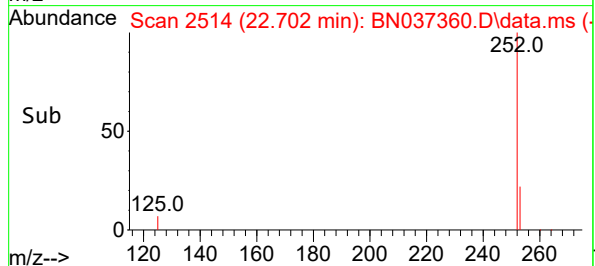
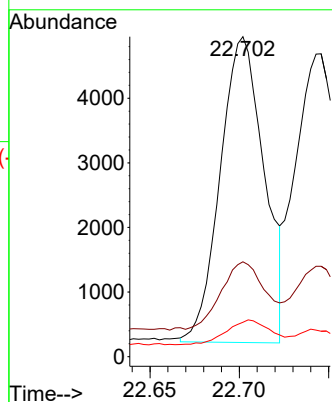
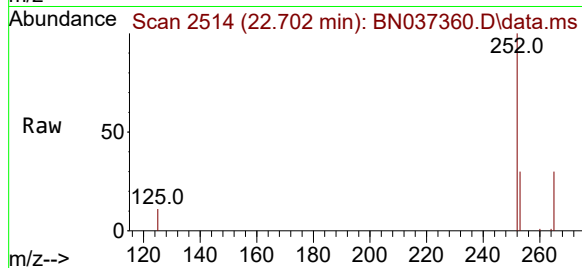
Tgt Ion:252 Resp: 8083

Ion Ratio Lower Upper

252 100

253 29.6 26.6 40.0

125 10.7 6.1 9.1#



#38

Benzo(k)fluoranthene

Concen: 0.412 ng

RT: 22.746 min Scan# 2529

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

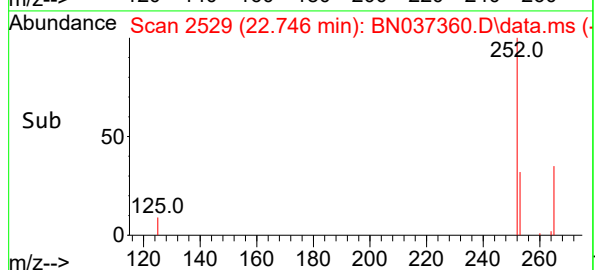
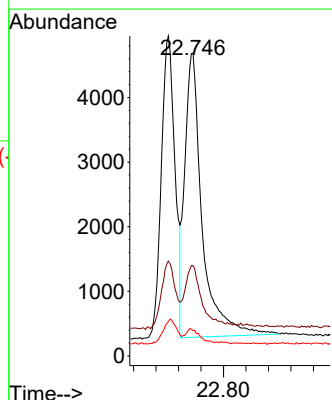
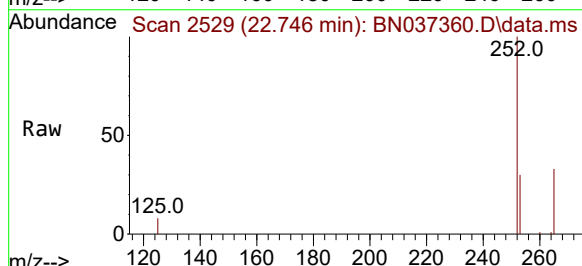
Tgt Ion:252 Resp: 9472

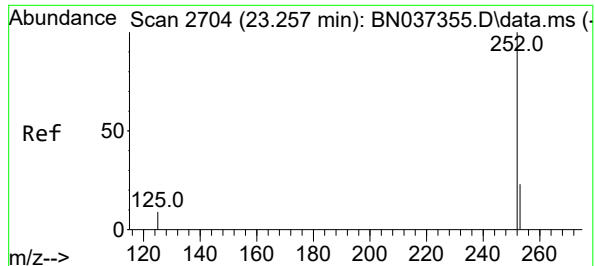
Ion Ratio Lower Upper

252 100

253 29.9 26.7 40.1

125 8.4 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.382 ng

RT: 23.260 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125

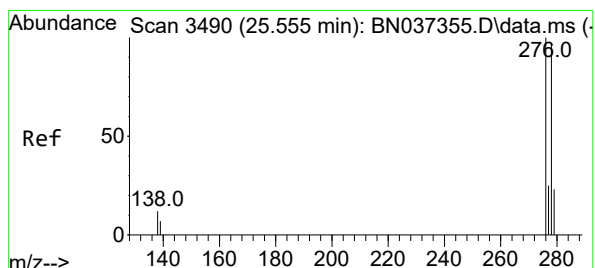
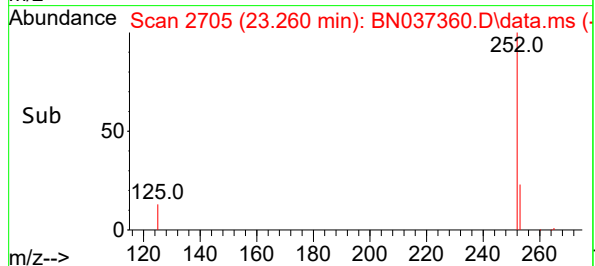
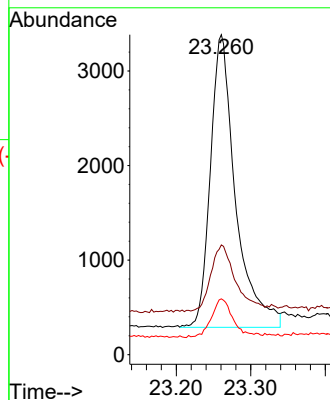
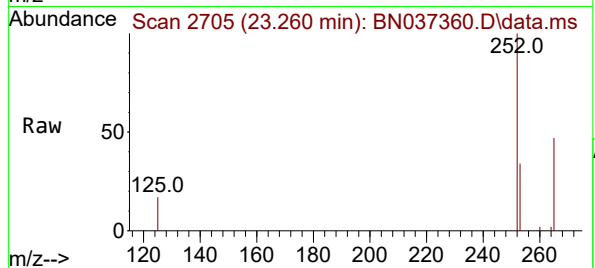
Tgt Ion:252 Resp: 7258

Ion Ratio Lower Upper

252 100

253 34.3 31.6 47.4

125 17.4 8.4 12.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.367 ng

RT: 25.553 min Scan# 3489

Delta R.T. -0.003 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

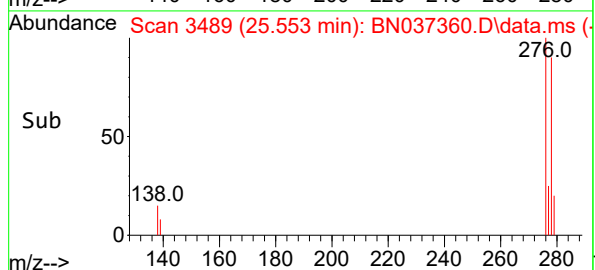
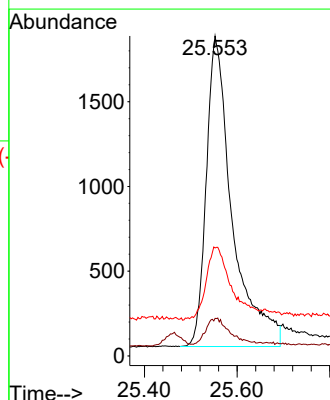
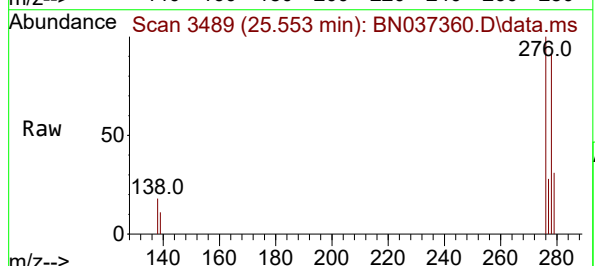
Tgt Ion:278 Resp: 7116

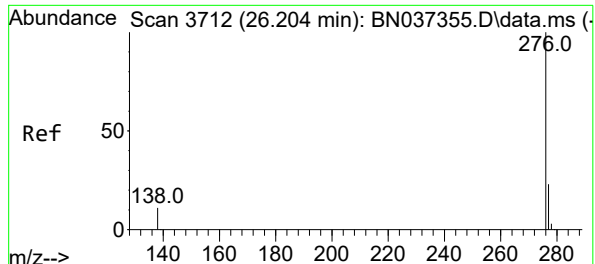
Ion Ratio Lower Upper

278 100

139 11.8 10.2 15.4

279 33.7 35.6 53.4#





#41

Benzo(g,h,i)perylene

Concen: 0.378 ng

RT: 26.199 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037360.D

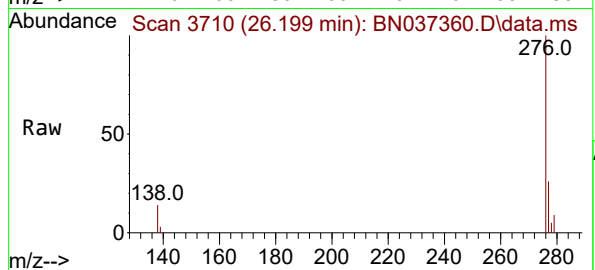
Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125



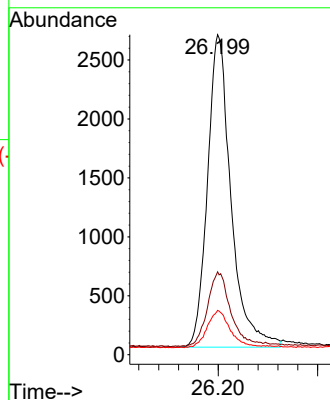
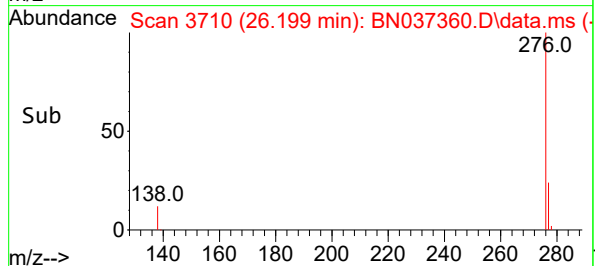
Tgt Ion:276 Resp: 8707

Ion Ratio Lower Upper

276 100

277 25.9 22.7 34.1

138 13.9 9.4 14.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037360.D
 Acq On : 20 Jun 2025 21:39
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN062125

Quant Time: Jun 20 23:48:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:41:54 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	121	0.00
2	1,4-Dioxane	0.407	0.408	-0.2	126	0.00
3	n-Nitrosodimethylamine	0.373	0.366	1.9	112	0.00
4 S	2-Fluorophenol	0.799	0.797	0.3	128	0.00
5 S	Phenol-d6	0.823	0.778	5.5	123	0.00
6	bis(2-Chloroethyl)ether	0.730	0.744	-1.9	127	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	122	0.00
8 S	Nitrobenzene-d5	0.323	0.327	-1.2	125	0.00
9	Naphthalene	1.056	1.054	0.2	123	0.00
10	Hexachlorobutadiene	0.417	0.426	-2.2	118	0.00
11 SURR	2-Methylnaphthalene-d10	0.648	0.670	-3.4	123	0.00
12	2-Methylnaphthalene	0.736	0.715	2.9	122	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	123	0.00
14 S	2,4,6-Tribromophenol	0.235	0.219	6.8	117	0.00
15 S	2-Fluorobiphenyl	1.757	1.750	0.4	121	0.00
16	Acenaphthylene	1.682	1.580	6.1	122	0.00
17	Acenaphthene	1.107	1.076	2.8	125	0.00
18	Fluorene	1.556	1.502	3.5	123	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	122	0.00
20	4,6-Dinitro-2-methylphenol	0.096	0.069	28.1#	107	0.00
21	4-Bromophenyl-phenylether	0.285	0.270	5.3	118	0.00
22	Hexachlorobenzene	0.310	0.315	-1.6	122	0.00
23	Atrazine	0.227	0.206	9.3	115	0.00
24	Pentachlorophenol	0.154	0.125	18.8	111	0.00
25	Phenanthrene	1.158	1.096	5.4	121	0.00
26	Anthracene	1.068	0.954	10.7	118	0.00
27 SURR	Fluoranthene-d10	1.148	1.124	2.1	118	0.00
28	Fluoranthene	1.464	1.350	7.8	121	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	116	0.00
30	Pyrene	1.625	1.721	-5.9	120	0.00
31 S	Terphenyl-d14	0.912	0.947	-3.8	118	0.00
32	Benzo(a)anthracene	1.315	1.224	6.9	116	0.00
33	Chrysene	1.594	1.640	-2.9	118	0.00
34	Bis(2-ethylhexyl)phthalate	0.540	0.544	-0.7	116	0.00
35 I	Perylene-d12	1.000	1.000	0.0	116	0.00
36	Indeno(1,2,3-cd)pyrene	1.794	1.649	8.1	113	0.00
37	Benzo(b)fluoranthene	1.472	1.404	4.6	113	0.00
38	Benzo(k)fluoranthene	1.597	1.646	-3.1	122	0.00
39 C	Benzo(a)pyrene	1.319	1.261	4.4	115	0.00
40	Dibenzo(a,h)anthracene	1.348	1.236	8.3	117	0.00
41	Benzo(g,h,i)perylene	1.603	1.513	5.6	111	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037360.D
Acq On : 20 Jun 2025 21:39
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

Quant Time: Jun 20 23:48:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 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	121	0.00
2	1,4-Dioxane	0.400	0.401	-0.3	126	0.00
3	n-Nitrosodimethylamine	0.400	0.393	1.8	112	0.00
4 S	2-Fluorophenol	0.400	0.399	0.3	128	0.00
5 S	Phenol-d6	0.400	0.378	5.5	123	0.00
6	bis(2-Chloroethyl)ether	0.400	0.407	-1.7	127	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	122	0.00
8 S	Nitrobenzene-d5	0.400	0.405	-1.3	125	0.00
9	Naphthalene	0.400	0.399	0.3	123	0.00
10	Hexachlorobutadiene	0.400	0.409	-2.2	118	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.414	-3.5	123	0.00
12	2-Methylnaphthalene	0.400	0.388	3.0	122	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	123	0.00
14 S	2,4,6-Tribromophenol	0.400	0.373	6.8	117	0.00
15 S	2-Fluorobiphenyl	0.400	0.398	0.5	121	0.00
16	Acenaphthylene	0.400	0.376	6.0	122	0.00
17	Acenaphthene	0.400	0.389	2.8	125	0.00
18	Fluorene	0.400	0.386	3.5	123	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	122	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.289	27.8#	107	0.00
21	4-Bromophenyl-phenylether	0.400	0.379	5.3	118	0.00
22	Hexachlorobenzene	0.400	0.406	-1.5	122	0.00
23	Atrazine	0.400	0.362	9.5	115	0.00
24	Pentachlorophenol	0.400	0.323	19.3	111	0.00
25	Phenanthrene	0.400	0.378	5.5	121	0.00
26	Anthracene	0.400	0.357	10.8	118	0.00
27 SURR	Fluoranthene-d10	0.400	0.392	2.0	118	0.00
28	Fluoranthene	0.400	0.369	7.8	121	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	116	0.00
30	Pyrene	0.400	0.424	-6.0	120	0.00
31 S	Terphenyl-d14	0.400	0.416	-4.0	118	0.00
32	Benzo(a)anthracene	0.400	0.372	7.0	116	0.00
33	Chrysene	0.400	0.412	-3.0	118	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.403	-0.8	116	0.00
35 I	Perylene-d12	0.400	0.400	0.0	116	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.368	8.0	113	0.00
37	Benzo(b)fluoranthene	0.400	0.382	4.5	113	0.00
38	Benzo(k)fluoranthene	0.400	0.412	-3.0	122	0.00
39 C	Benzo(a)pyrene	0.400	0.382	4.5	115	0.00
40	Dibenzo(a,h)anthracene	0.400	0.367	8.3	117	0.00
41	Benzo(g,h,i)perylene	0.400	0.378	5.5	111	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-BN062625.M
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 Last Update : Thu Jun 26 16:06:33 2025
 Response Via : Initial Calibration

Calibration Files

0.1 =BN037386.D 0.2 =BN037387.D 0.4 =BN037388.D 0.8 =BN037389.D 1.6 =BN037390.D 3.2 =BN037391.D 5 =BN037392.D

	Compound	0.1	0.2	0.4	0.8	1.6	3.2	5	Avg	%RSD
1) I	1,4-Dichlorobenzen...	-----ISTD-----								
2)	1,4-Dioxane	0.470	0.369	0.366	0.377	0.363	0.331	0.379	12.38	
3)	n-Nitrosodimet...	0.377	0.374	0.366	0.385	0.374	0.371	0.375	1.73	
4) S	2-Fluorophenol	0.771	0.778	0.804	0.697	0.754	0.773	0.818	0.771	5.09
5) S	Phenol-d6	0.663	0.706	0.812	0.737	0.839	0.886	0.951	0.799	12.86
6)	bis(2-Chloroet...	0.574	0.661	0.718	0.694	0.765	0.775	0.790	0.711	10.74
7) I	Naphthalene-d8	-----ISTD-----								
8) S	Nitrobenzene-d5	0.270	0.281	0.311	0.296	0.345	0.353	0.389	0.321	13.45
9)	Naphthalene	1.042	1.001	0.999	0.972	1.048	1.050	1.096	1.030	4.06
10)	Hexachlorobuta...	0.407	0.410	0.413	0.400	0.422	0.404	0.405	0.409	1.74
11) SURR2	Methylnaphth...	0.532	0.567	0.576	0.568	0.628	0.656	0.807	0.619	14.98
12)	2-Methylnaphth...	0.635	0.665	0.684	0.662	0.746	0.767	0.803	0.709	8.89
13) I	Acenaphthene-d10	-----ISTD-----								
14) S	2,4,6-Tribromo...	0.194	0.207	0.239	0.225	0.251	0.256	0.271	0.235	11.68
15) S	2-Fluorobiphenyl	1.548	1.656	1.723	1.652	1.798	1.801	1.910	1.727	6.95
16)	Acenaphthylene	1.585	1.600	1.576	1.538	1.714	1.741	1.858	1.659	6.95
17)	Acenaphthene	1.030	1.027	1.045	1.009	1.123	1.147	1.203	1.083	6.85
18)	Fluorene	1.444	1.417	1.476	1.420	1.603	1.643	1.706	1.530	7.74
19) I	Phenanthrene-d10	-----ISTD-----								
20)	4,6-Dinitro-2-...	0.084	0.085	0.087	0.113	0.119	0.128	0.103	19.13	
21)	4-Bromophenyl-...	0.264	0.253	0.270	0.269	0.303	0.302	0.316	0.282	8.58
22)	Hexachlorobenzene	0.310	0.299	0.302	0.291	0.311	0.301	0.311	0.303	2.45
23)	Atrazine	0.200	0.208	0.213	0.204	0.232	0.242	0.266	0.224	10.81
24)	Pentachlorophenol	0.164	0.155	0.148	0.165	0.165	0.168	0.183	0.164	7.30
25)	Phenanthrene	1.056	1.067	1.080	1.038	1.172	1.190	1.287	1.127	8.12
26)	Anthracene	0.935	0.972	0.969	0.959	1.076	1.120	1.222	1.036	10.28
27) SURR	Fluoranthene-d10	1.073	1.137	1.063	1.028	1.121	1.154	1.447	1.146	12.22
28)	Fluoranthene	1.377	1.398	1.362	1.320	1.487	1.507	1.624	1.439	7.32
29) I	Chrysene-d12	-----ISTD-----								
30)	Pyrene	1.459	1.449	1.534	1.431	1.561	1.550	1.612	1.514	4.47
31) S	Terphenyl-d14	0.800	0.794	0.868	0.796	0.878	0.892	0.943	0.853	6.77
32)	Benzo(a)anthra...	1.149	1.202	1.167	1.152	1.318	1.364	1.446	1.257	9.46
33)	Chrysene	1.630	1.573	1.583	1.491	1.554	1.510	1.551	1.556	2.98
34)	Bis(2-ethylhex...	0.509	0.504	0.466	0.481	0.488	0.537	0.498	5.00	
35) I	Perylene-d12	-----ISTD-----								

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

Method File : 8270-SIM-BN062625.M

36)	Indeno(1,2,3-c...	1.487	1.515	1.577	1.620	1.786	1.853	1.967	1.686	10.88
37)	Benzo(b)fluora...	1.329	1.305	1.318	1.320	1.464	1.504	1.632	1.410	8.93
38)	Benzo(k)fluora...	1.408	1.389	1.462	1.430	1.552	1.613	1.697	1.507	7.73
39) C	Benzo(a)pyrene	1.211	1.160	1.183	1.174	1.286	1.341	1.426	1.254	8.01
40)	Dibenzo(a,h)an...	1.050	1.138	1.211	1.229	1.394	1.485	1.561	1.296	14.53
41)	Benzo(g,h,i)pe...	1.425	1.473	1.477	1.462	1.617	1.658	1.725	1.548	7.51

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
 Data File : BN037386.D
 Acq On : 26 Jun 2025 10:41
 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 06/27/2025

Supervised By :Jagrut Upadhyay 06/27/2025

Quant Time: Jun 26 16:03:56 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Thu Jun 26 16:02:41 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.560	152	2183	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4628	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	2945	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5811	0.400	ng	0.01
29) Chrysene-d12	21.171	240	5498	0.400	ng	0.00
35) Perylene-d12	23.348	264	5798	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	421	0.100	ng	0.00
5) Phenol-d6	6.744	99	362	0.083	ng	0.00
8) Nitrobenzene-d5	8.728	82	312m	0.085	ng	0.01
11) 2-Methylnaphthalene-d10	11.955	152	615	0.086	ng	0.02
14) 2,4,6-Tribromophenol	15.730	330	143	0.083	ng	0.01
15) 2-Fluorobiphenyl	12.843	172	1140	0.090	ng	0.01
27) Fluoranthene-d10	19.008	212	1559	0.094	ng	0.00
31) Terphenyl-d14	19.625	244	1099	0.094	ng	0.00
Target Compounds						
6) bis(2-Chloroethyl)ether	7.004	93	313	0.081	ng	# 85
9) Naphthalene	10.394	128	1206	0.101	ng	# 86
10) Hexachlorobutadiene	10.682	225	471	0.100	ng	# 98
12) 2-Methylnaphthalene	12.026	142	735	0.090	ng	96
16) Acenaphthylene	13.935	152	1167	0.096	ng	97
17) Acenaphthene	14.277	154	758	0.095	ng	98
18) Fluorene	15.272	166	1063	0.094	ng	100
21) 4-Bromophenyl-phenylether	16.177	248	383	0.093	ng	# 93
22) Hexachlorobenzene	16.276	284	450	0.102	ng	98
23) Atrazine	16.462	200	291	0.090	ng	# 73
25) Phenanthrene	17.009	178	1534	0.094	ng	97
26) Anthracene	17.108	178	1358	0.090	ng	100
28) Fluoranthene	19.040	202	2001	0.096	ng	99
30) Pyrene	19.402	202	2006	0.096	ng	99
32) Benzo(a)anthracene	21.153	228	1579	0.091	ng	92
33) Chrysene	21.198	228	2241	0.105	ng	94
36) Indeno(1,2,3-cd)pyrene	25.535	276	2156	0.088	ng	# 90
37) Benzo(b)fluoranthene	22.699	252	1927	0.094	ng	# 66
38) Benzo(k)fluoranthene	22.740	252	2041	0.093	ng	# 61
39) Benzo(a)pyrene	23.254	252	1755	0.097	ng	# 52
40) Dibenzo(a,h)anthracene	25.567	278	1522	0.081	ng	# 41
41) Benzo(g,h,i)perylene	26.193	276	2066	0.092	ng	# 87

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

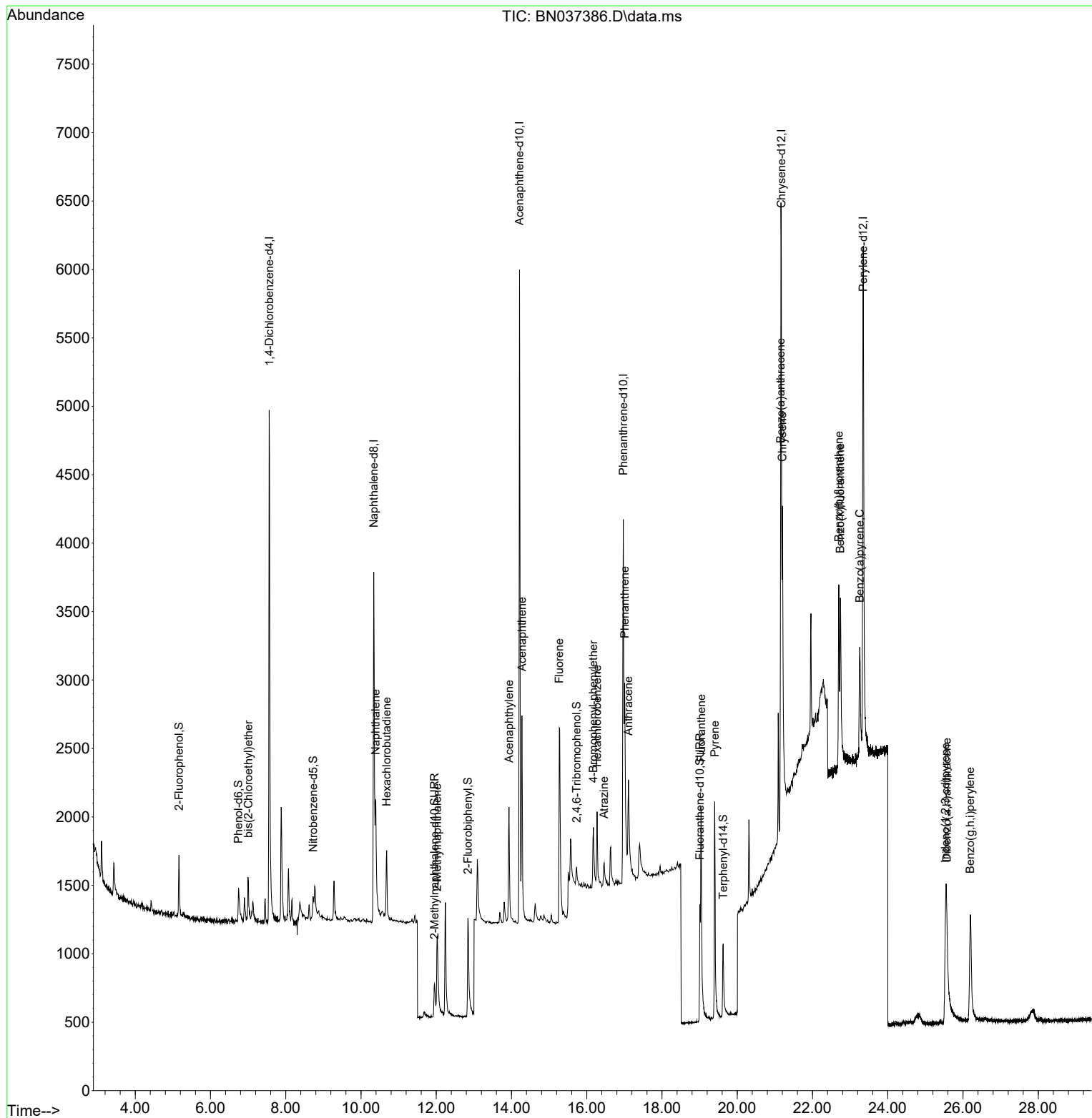
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Data File : BN037386.D
Acq On : 26 Jun 2025 10:41
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

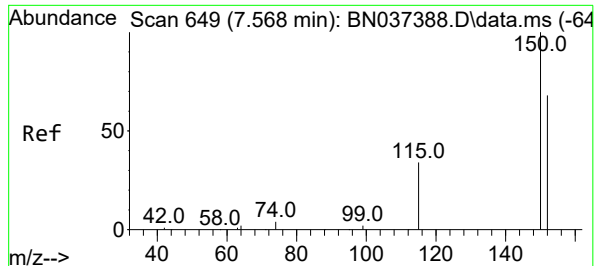
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ClientSampleId :
SSTDICC0.1

Quant Time: Jun 26 16:03:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:02:41 2025
Response via : Initial Calibration

Manual Integrations
APPROVED

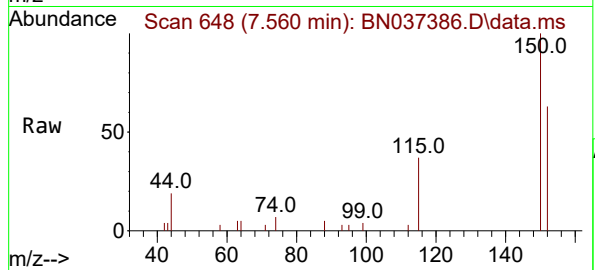
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025





#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 649
Delta R.T. -0.008 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

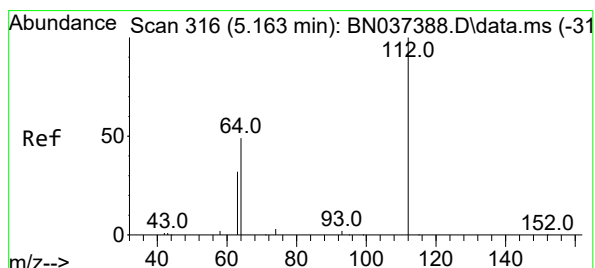
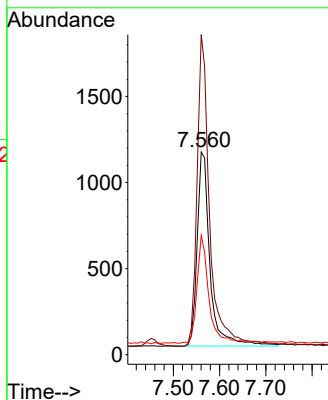
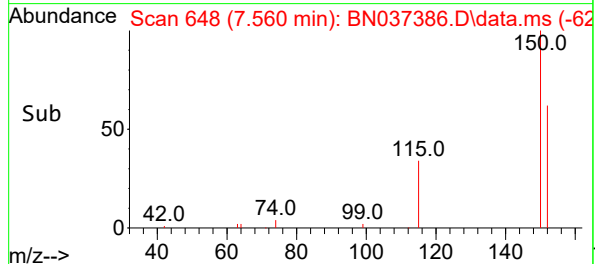
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:152 Resp: 218
Ion Ratio Lower Upper
152 100
150 157.8 116.2 174.2
115 58.7 42.9 64.3

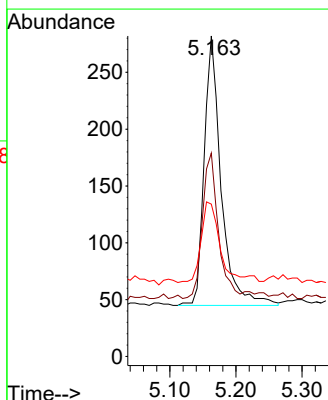
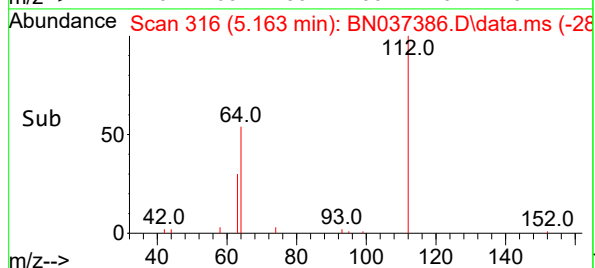
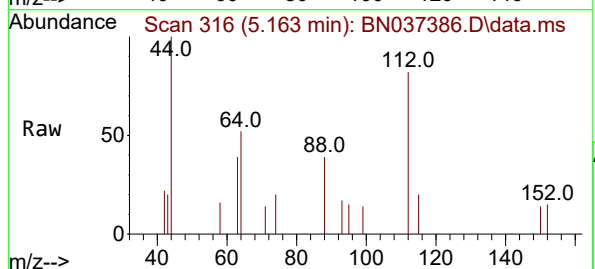
Manual Integrations
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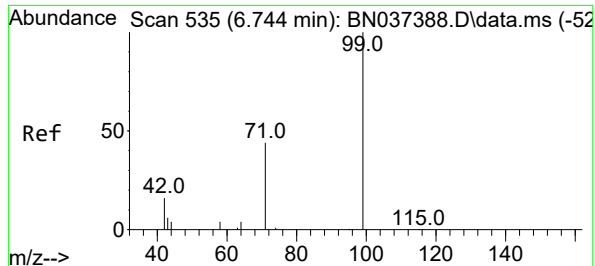
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#4
2-Fluorophenol
Concen: 0.100 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:112 Resp: 421
Ion Ratio Lower Upper
112 100
64 50.6 40.3 60.5
63 34.0 26.1 39.1





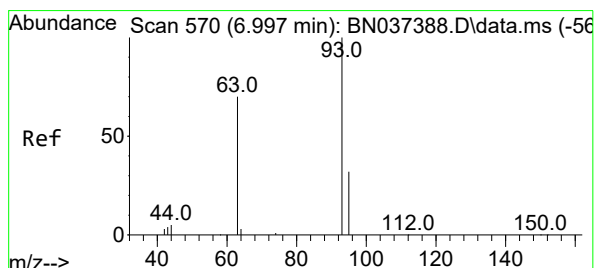
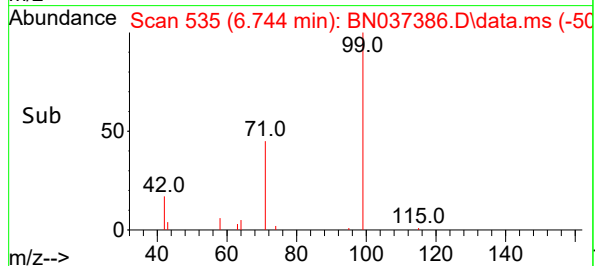
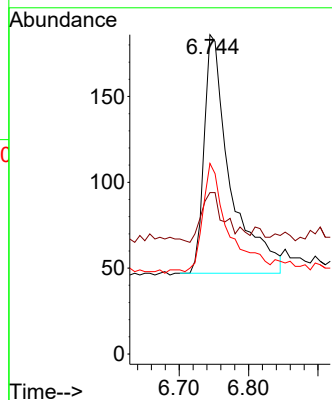
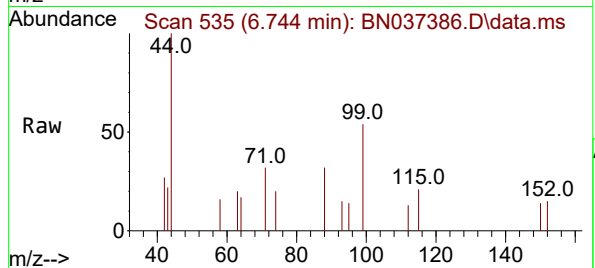
#5
Phenol-d6
Concen: 0.083 ng
RT: 6.744 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 362
Ion Ratio Lower Upper
99 100
42 19.6 15.6 23.4
71 43.6 35.8 53.8

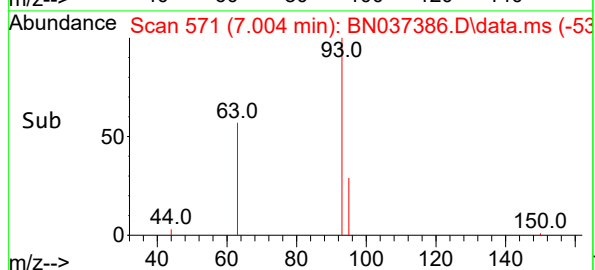
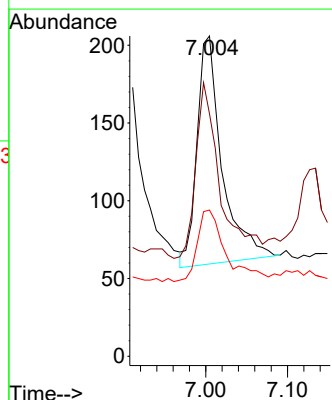
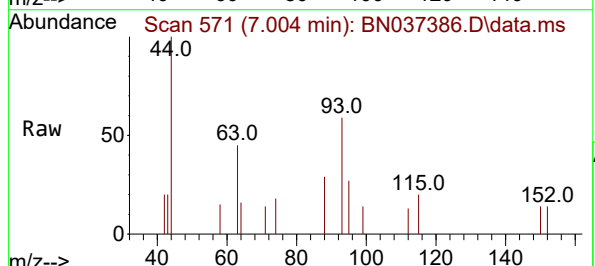
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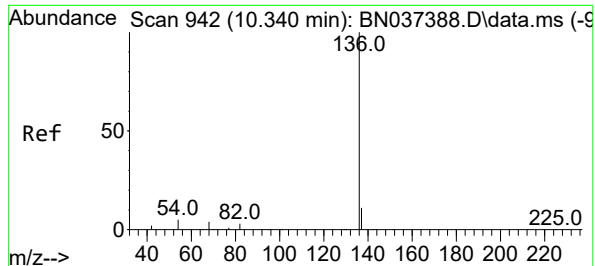
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#6
bis(2-Chloroethyl)ether
Concen: 0.081 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.007 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion: 93 Resp: 313
Ion Ratio Lower Upper
93 100
63 75.1 49.6 74.4#
95 35.5 23.9 35.9





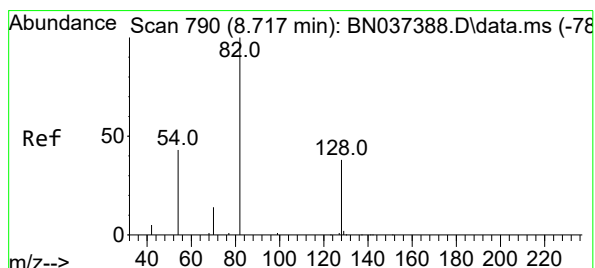
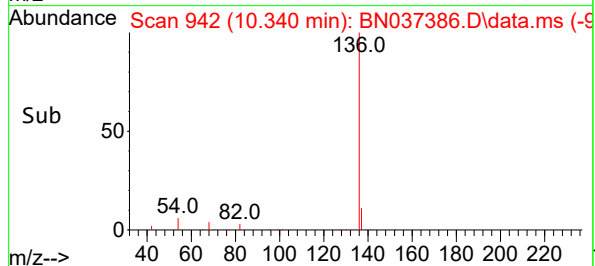
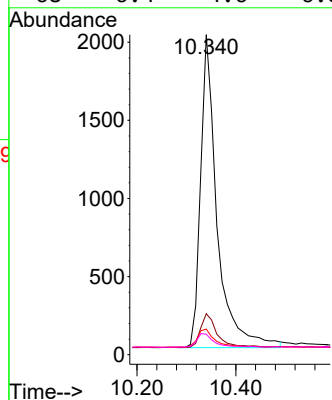
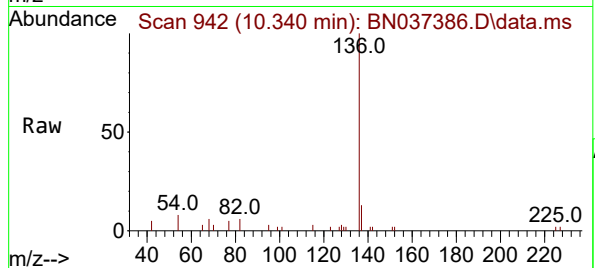
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 136 Resp: 4628
Ion Ratio Lower Upper
136 100
137 12.8 10.4 15.6
54 8.0 5.6 8.4
68 6.4 4.6 6.8

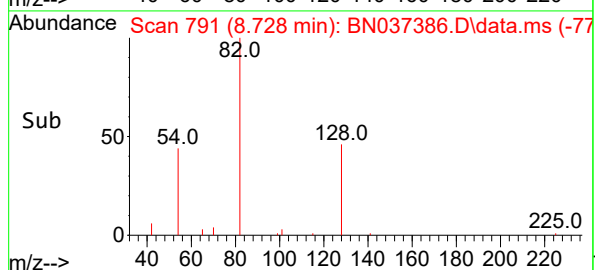
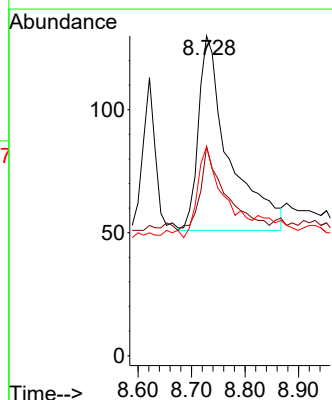
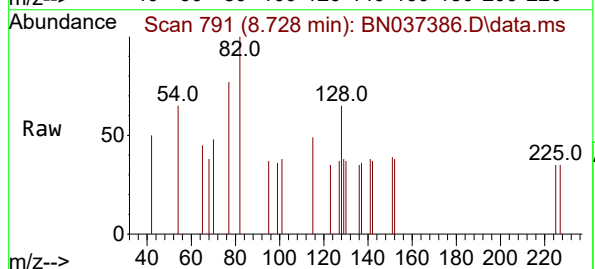
Manual Integrations
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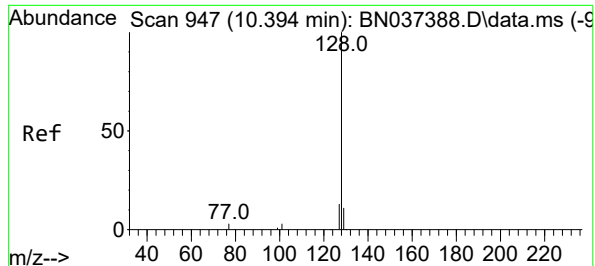
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#8
Nitrobenzene-d5
Concen: 0.085 ng m
RT: 8.728 min Scan# 791
Delta R.T. 0.011 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion: 82 Resp: 312
Ion Ratio Lower Upper
82 100
128 65.4 34.0 51.0#
54 65.4 37.7 56.5#





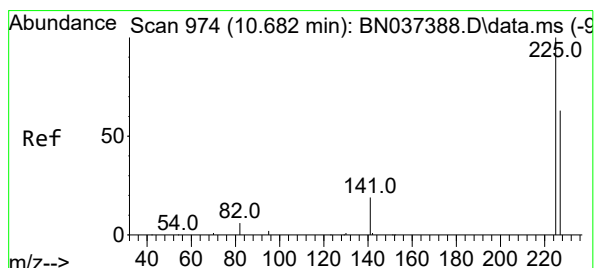
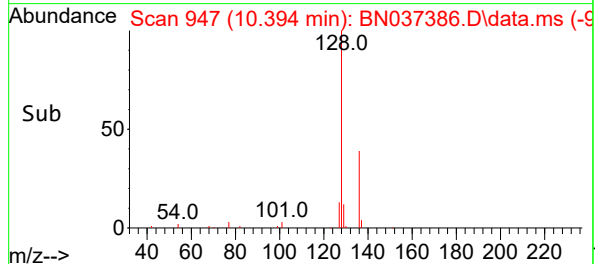
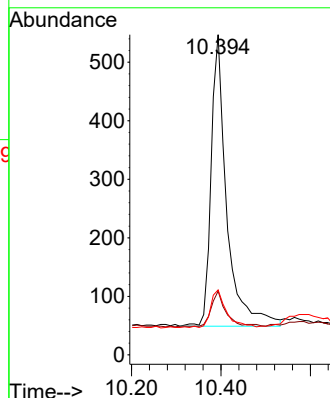
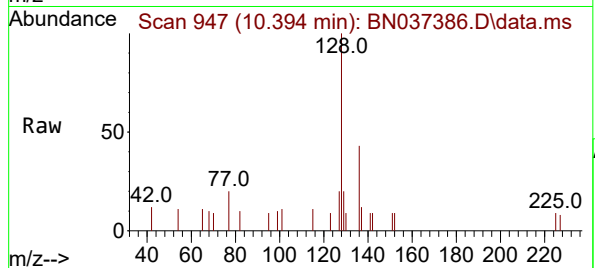
#9
Naphthalene
Concen: 0.101 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 1200
Ion Ratio Lower Upper
128 100
129 19.9 10.4 15.6
127 20.3 12.2 18.4

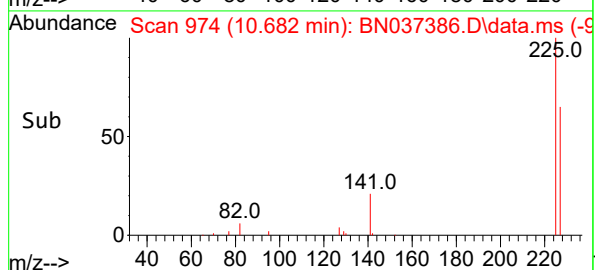
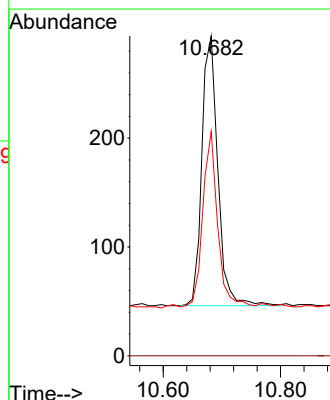
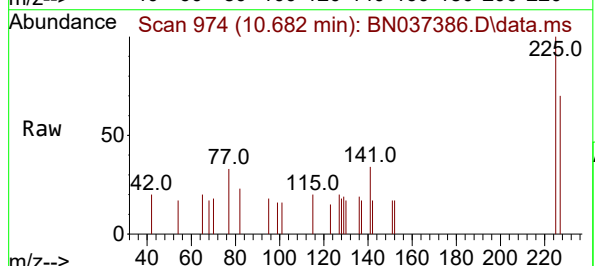
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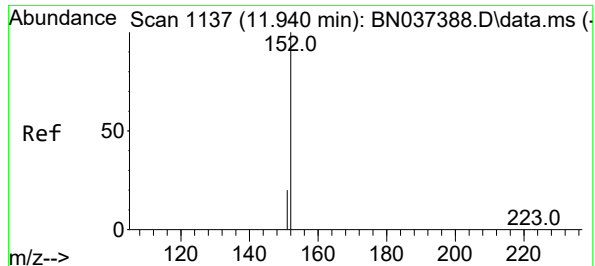
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#10
Hexachlorobutadiene
Concen: 0.100 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

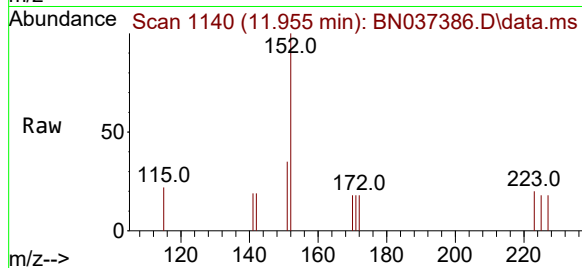
Tgt Ion:225 Resp: 471
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 60.7 49.9 74.9





#11
2-Methylnaphthalene-d10
Concen: 0.086 ng
RT: 11.955 min Scan# 1137
Delta R.T. 0.015 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

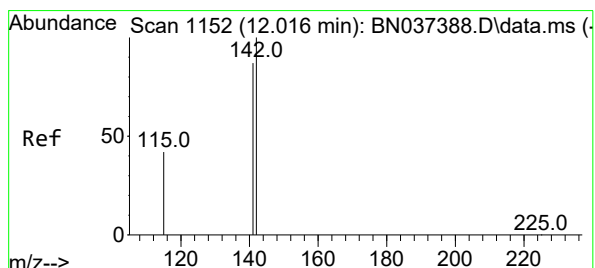
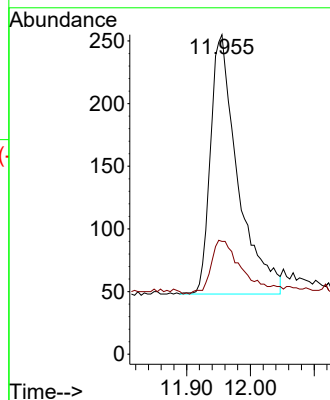
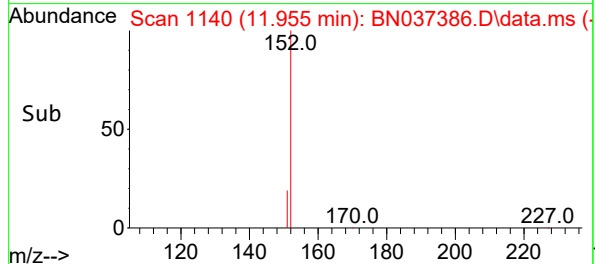
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



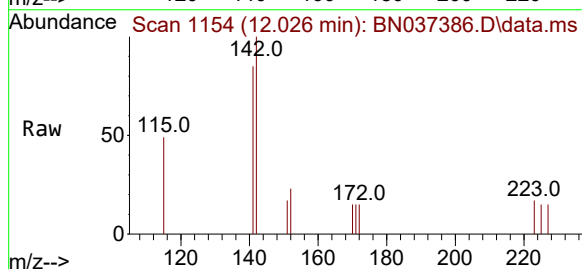
Tgt Ion:152 Resp: 61
Ion Ratio Lower Upper
152 100
151 22.9 18.4 27.6

Manual Integrations
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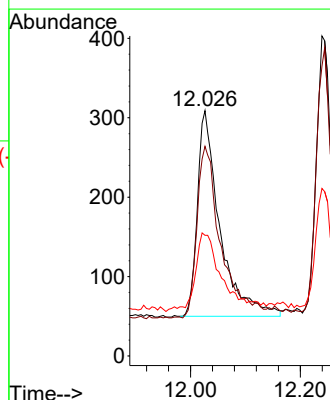
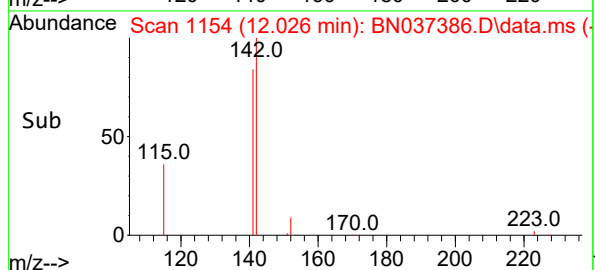
Reviewed By :Rahul Chavli 06/27/2025
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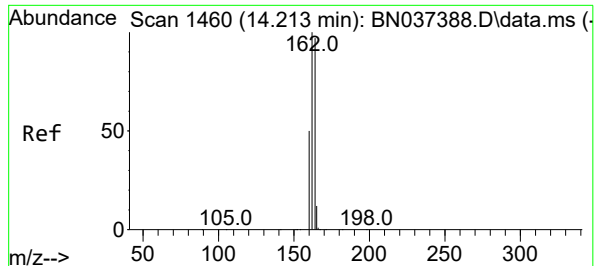


#12
2-Methylnaphthalene
Concen: 0.090 ng
RT: 12.026 min Scan# 1154
Delta R.T. 0.010 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41



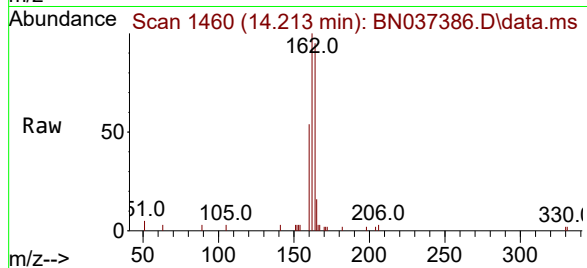
Tgt Ion:142 Resp: 735
Ion Ratio Lower Upper
142 100
141 85.4 70.1 105.1
115 49.2 35.8 53.6





#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

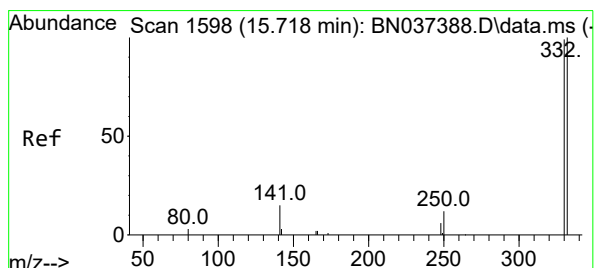
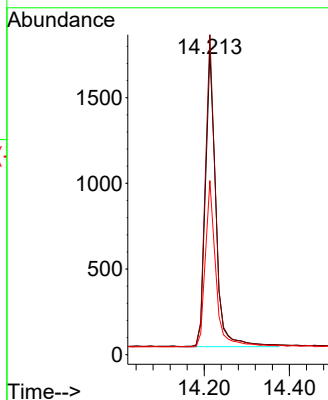
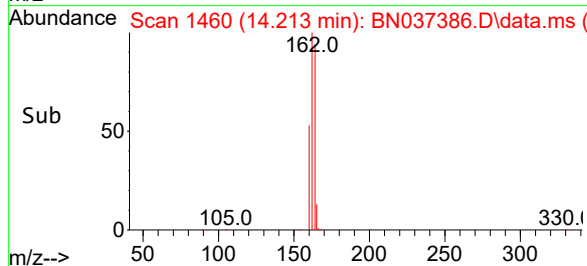
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ClientSampleId :
SSTDICC0.1



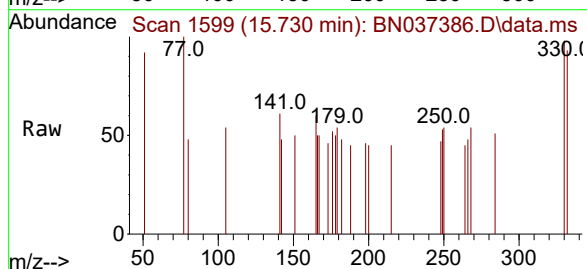
Tgt Ion:164 Resp: 294.5
Ion Ratio Lower Upper
164 100
162 105.7 82.6 123.8
160 57.5 42.2 63.2

Manual Integrations
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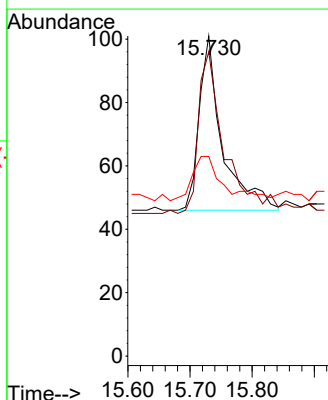
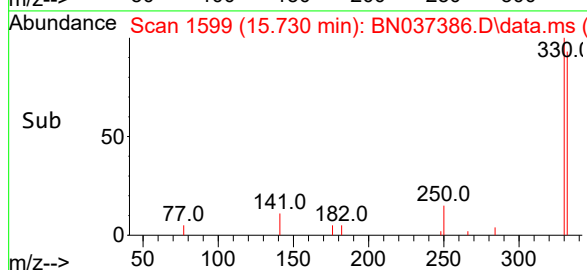
Reviewed By :Rahul Chavli 06/27/2025
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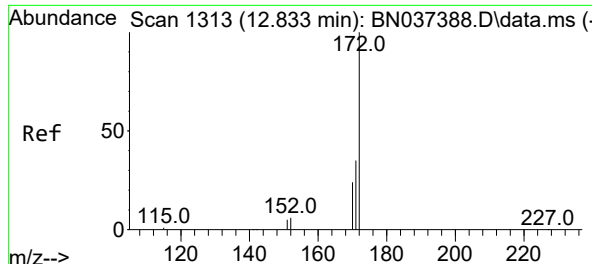


#14
2,4,6-Tribromophenol
Concen: 0.083 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.012 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41



Tgt Ion:330 Resp: 143
Ion Ratio Lower Upper
330 100
332 107.7 77.8 116.8
141 33.6 24.0 36.0





#15

2-Fluorobiphenyl

Concen: 0.090 ng

RT: 12.843 min Scan# 1140

Delta R.T. 0.010 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

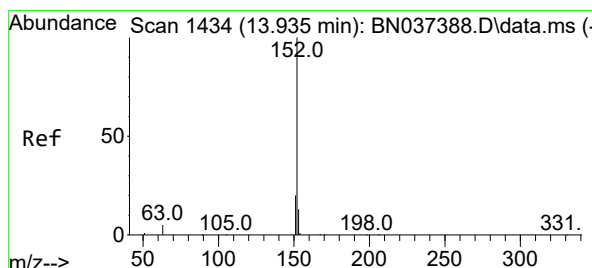
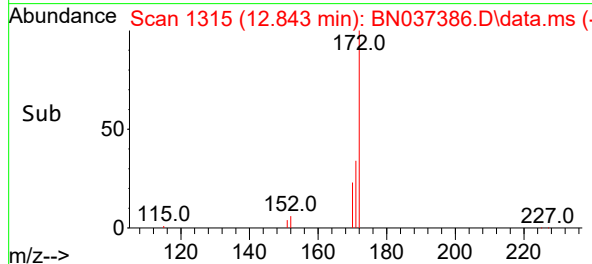
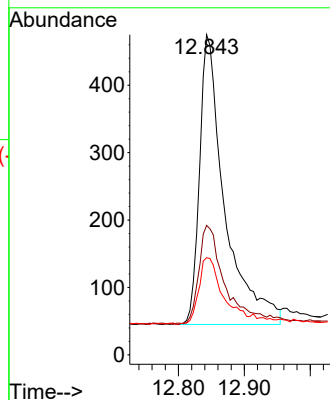
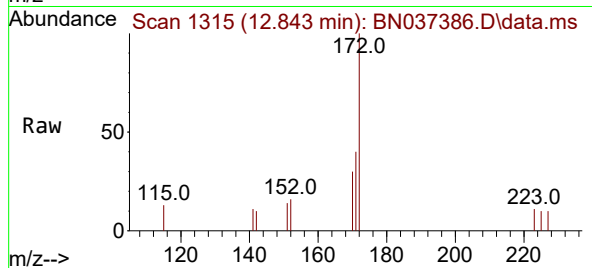
Tgt Ion:172	Resp:	1140
Ion	Ratio	Lower Upper
172	100	
171	40.4	28.8 43.2
170	30.3	20.3 30.5

Manual Integrations

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#16

Acenaphthylene

Concen: 0.096 ng

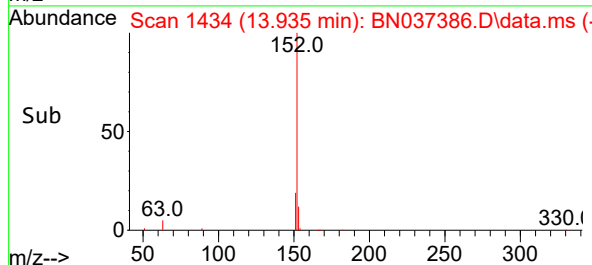
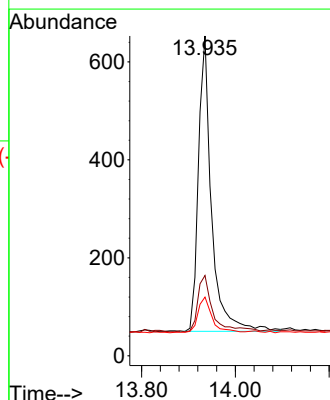
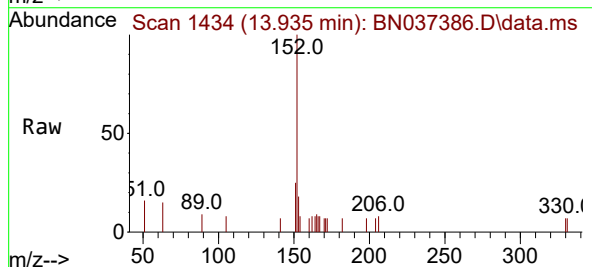
RT: 13.935 min Scan# 1434

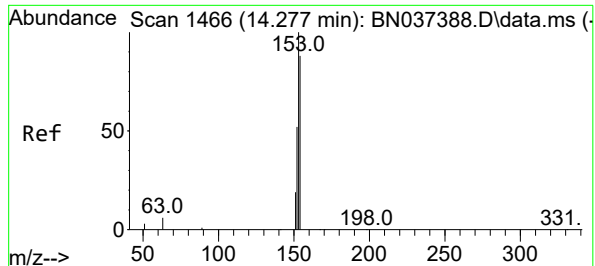
Delta R.T. -0.000 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Tgt Ion:152	Resp:	1167
Ion	Ratio	Lower Upper
152	100	
151	21.9	15.8 23.6
153	13.1	10.3 15.5





#17

Acenaphthene

Concen: 0.095 ng

RT: 14.277 min Scan# 1466

Delta R.T. -0.000 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

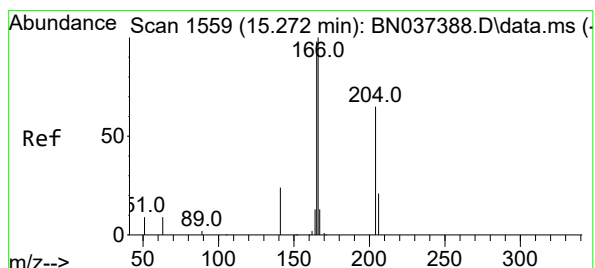
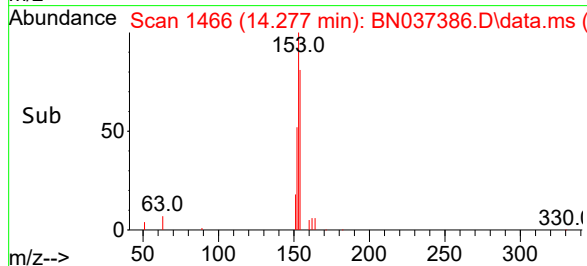
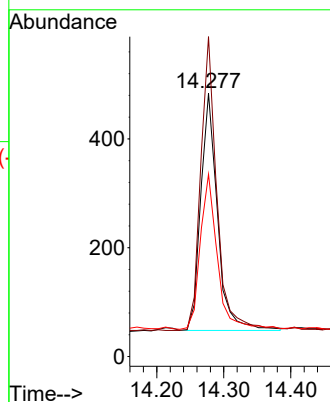
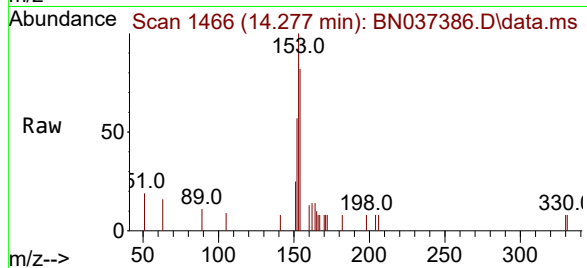
Tgt Ion:154 Resp: 758
Ion Ratio Lower Upper
154 100
153 119.4 94.6 141.8
152 66.6 50.2 75.2

Manual Integrations

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Reviewed By :Rahul Chavli 06/27/2025

Supervised By :Jagrut Upadhyay 06/27/2025



#18

Fluorene

Concen: 0.094 ng

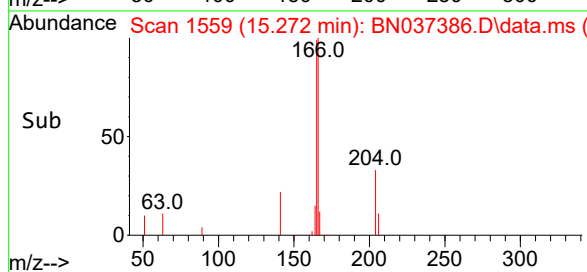
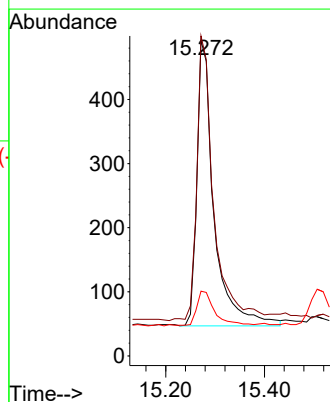
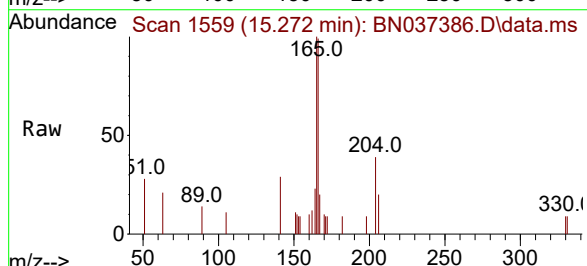
RT: 15.272 min Scan# 1559

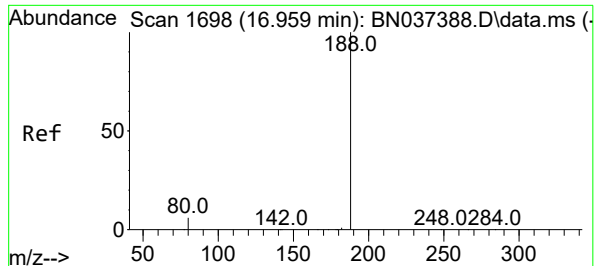
Delta R.T. -0.000 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Tgt Ion:166 Resp: 1063
Ion Ratio Lower Upper
166 100
165 99.1 79.4 119.2
167 12.2 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.012 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Instrument :

BNA_N

ClientSampleId :

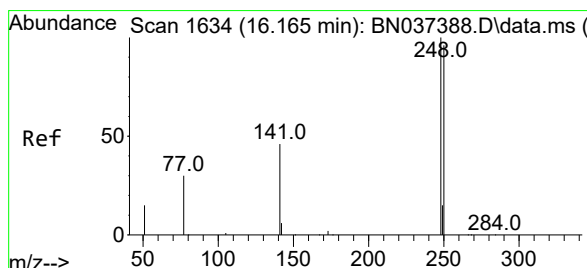
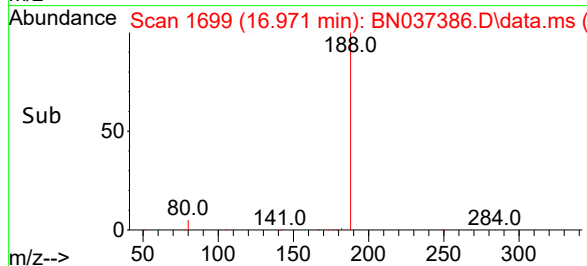
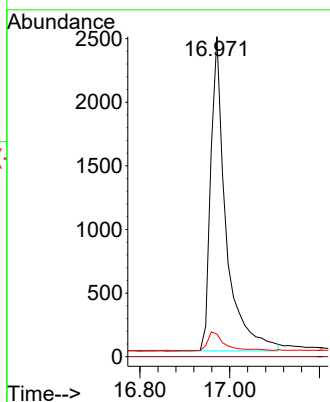
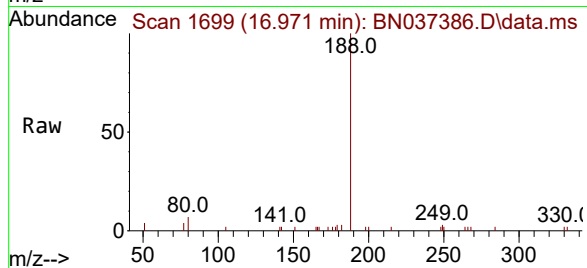
SSTDICC0.1

Tgt Ion:	188	Resp:	581
Ion Ratio	Lower	Upper	
188	100		
94	0.0	0.0	0.0
80	7.1	6.2	9.4

Manual Integrations
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Reviewed By :Rahul Chavli 06/27/2025

Supervised By :Jagrut Upadhyay 06/27/2025



#21

4-Bromophenyl-phenylether

Concen: 0.093 ng

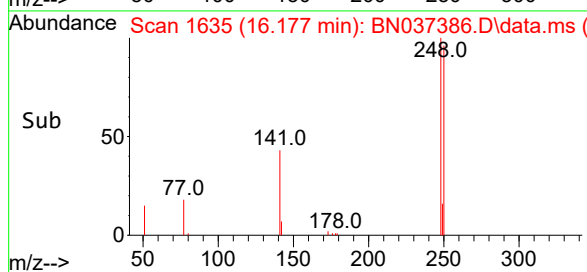
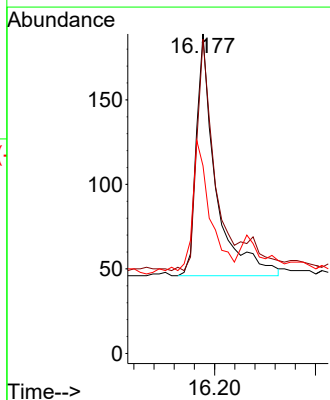
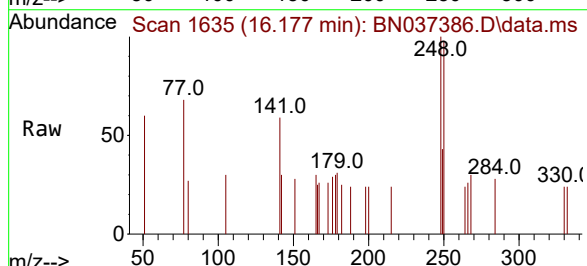
RT: 16.177 min Scan# 1635

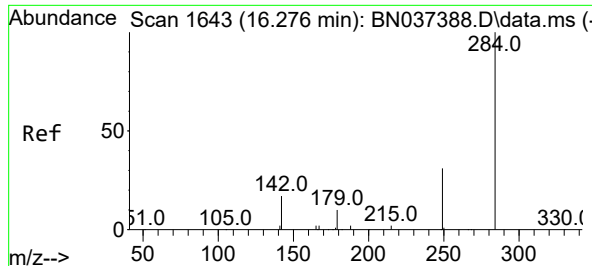
Delta R.T. 0.012 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

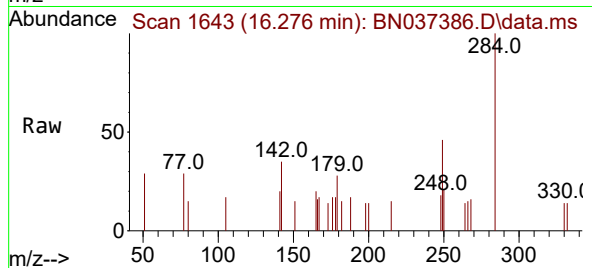
Tgt Ion:	248	Resp:	383
Ion Ratio	Lower	Upper	
248	100		
250	98.4	77.0	115.4
141	58.7	38.7	58.1





#22
Hexachlorobenzene
Concen: 0.102 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

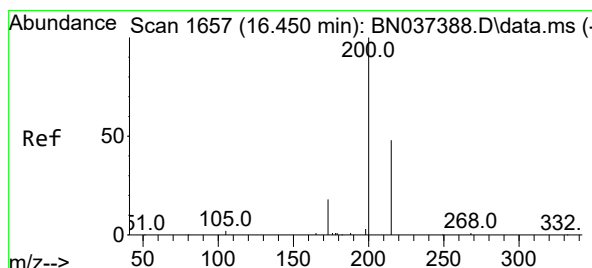
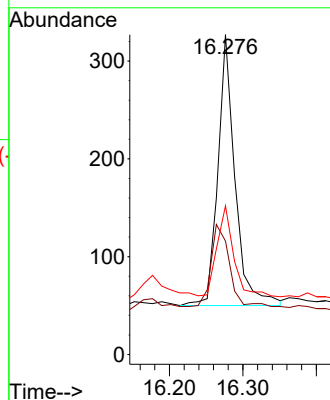
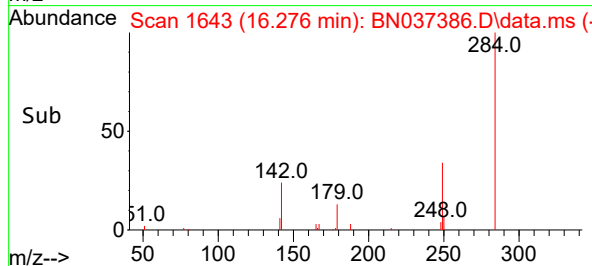
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:284 Resp: 450
Ion Ratio Lower Upper
284 100
142 34.4 27.2 40.8
249 35.1 26.7 40.1

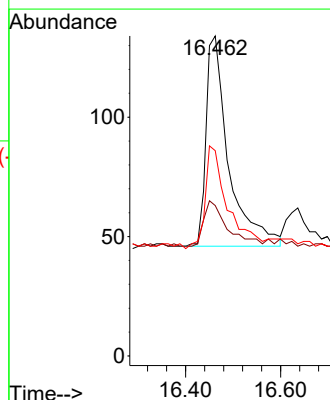
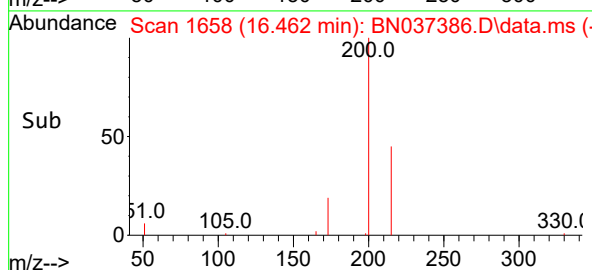
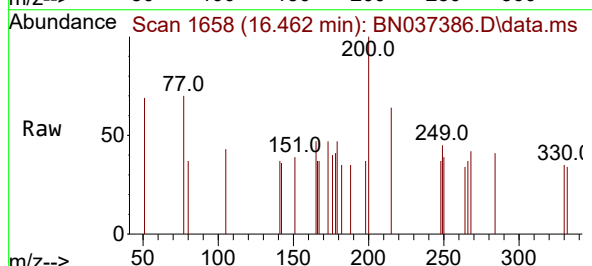
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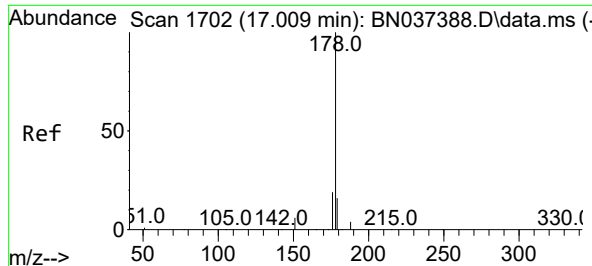
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#23
Atrazine
Concen: 0.090 ng
RT: 16.462 min Scan# 1658
Delta R.T. 0.012 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

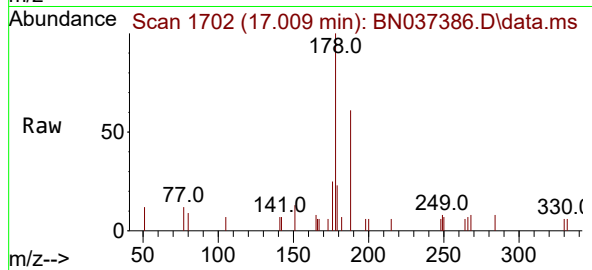
Tgt Ion:200 Resp: 291
Ion Ratio Lower Upper
200 100
173 47.0 19.0 28.6#
215 64.2 41.3 61.9#





#25
Phenanthrene
Concen: 0.094 ng
RT: 17.009 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

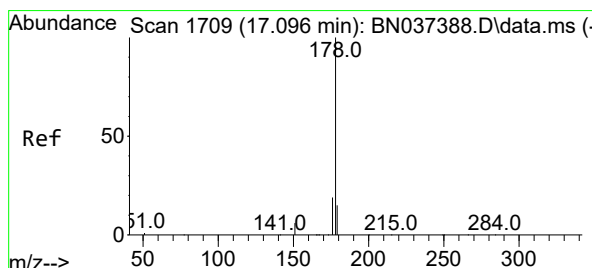
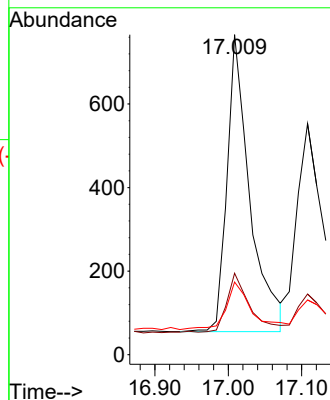
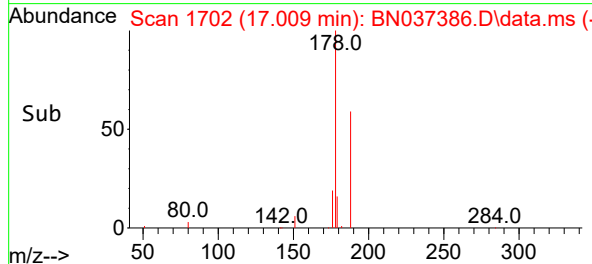
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



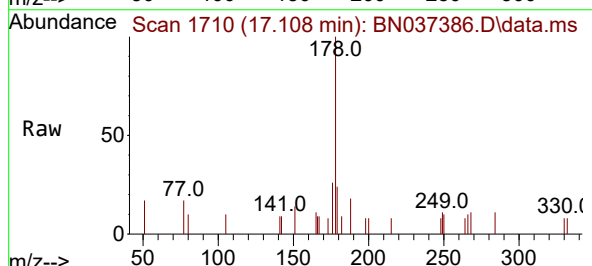
Tgt Ion:178 Resp: 1534
Ion Ratio Lower Upper
178 100
176 20.5 15.6 23.4
179 17.4 12.8 19.2

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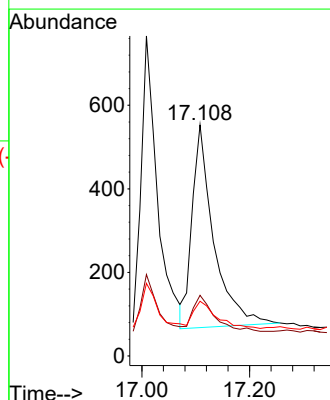
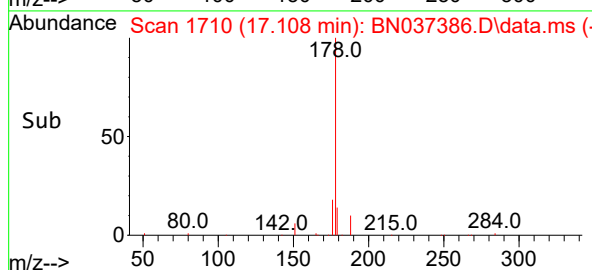
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

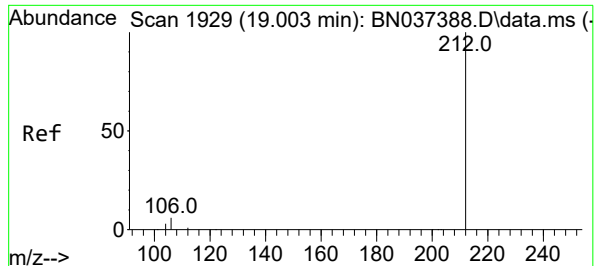


#26
Anthracene
Concen: 0.090 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.012 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41



Tgt Ion:178 Resp: 1358
Ion Ratio Lower Upper
178 100
176 18.6 14.9 22.3
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.094 ng

RT: 19.008 min Scan# 1930

Delta R.T. 0.005 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Instrument :

BNA_N

ClientSampleId :

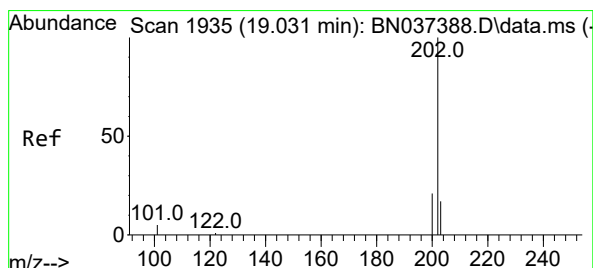
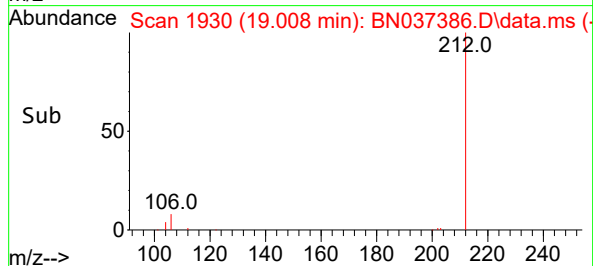
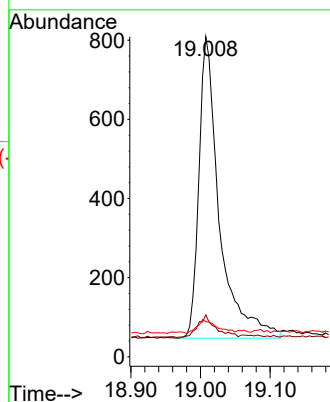
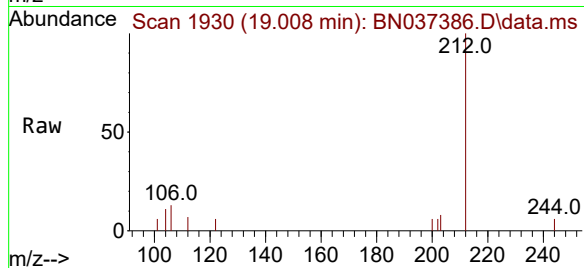
SSTDIC0.1

Tgt Ion:	212	Resp:	155
Ion Ratio	Lower	Upper	
212	100		
106	6.3	4.5	6.7
104	4.4	2.7	4.1

Manual Integrations
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Reviewed By :Rahul Chavli 06/27/2025

Supervised By :Jagrut Upadhyay 06/27/2025



#28

Fluoranthene

Concen: 0.096 ng

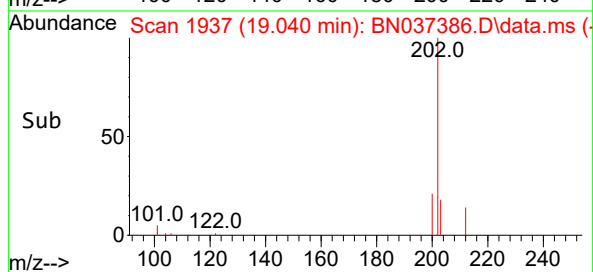
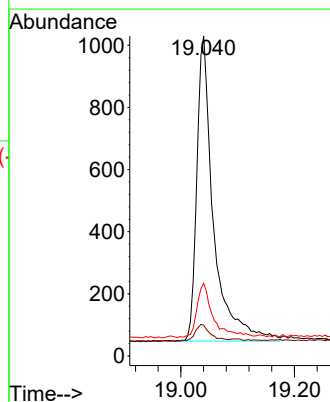
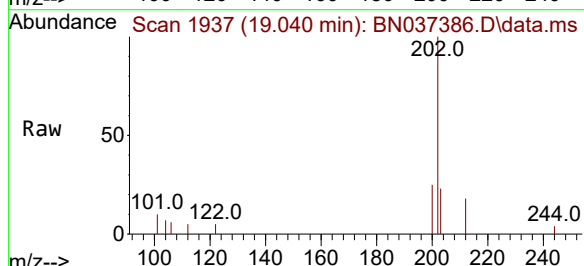
RT: 19.040 min Scan# 1937

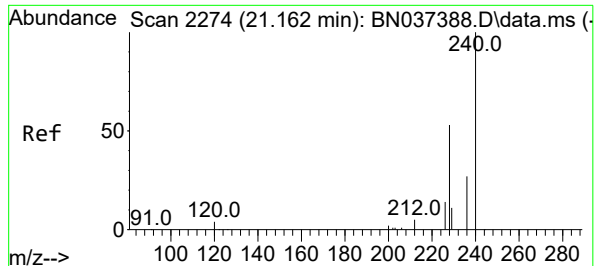
Delta R.T. 0.009 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Tgt Ion:	202	Resp:	2001
Ion Ratio	Lower	Upper	
202	100		
101	5.3	3.8	5.6
203	17.4	13.5	20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Instrument :

BNA_N

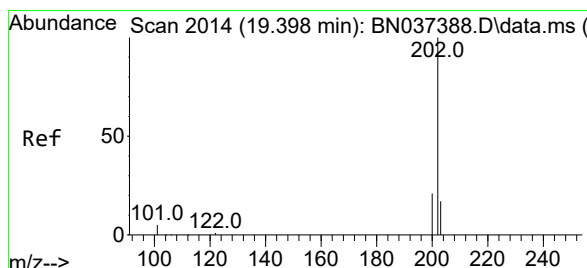
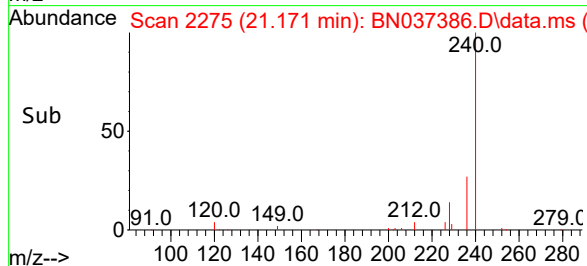
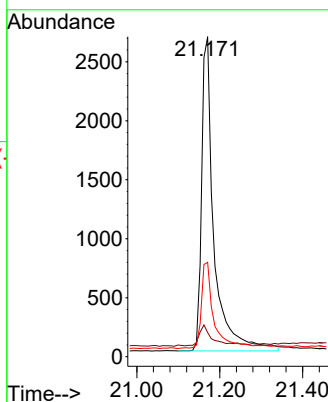
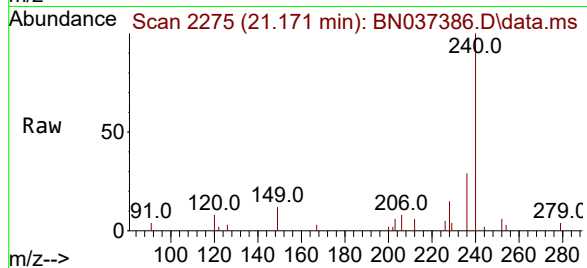
ClientSampleId :

SSTDIC0.1

Tgt Ion:240 Resp: 5498
Ion Ratio Lower Upper
240 100
120 7.6 5.3 7.9
236 29.5 22.7 34.1

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Supervised By :Jagrut Upadhyay 06/27/2025



#30

Pyrene

Concen: 0.096 ng

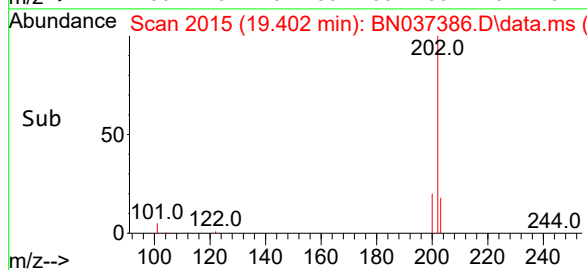
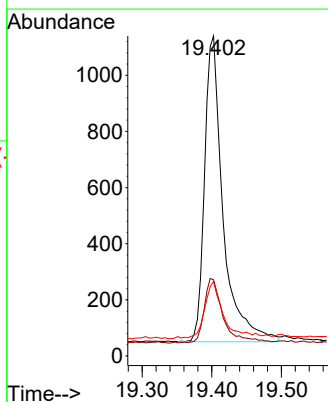
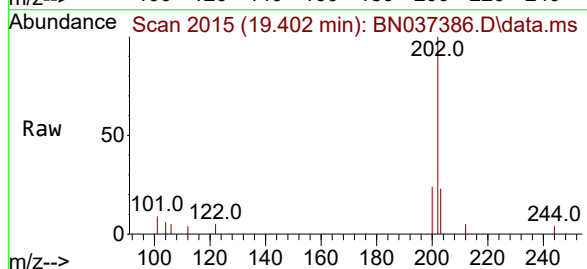
RT: 19.402 min Scan# 2015

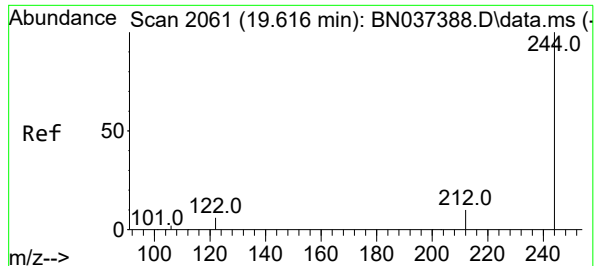
Delta R.T. 0.005 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

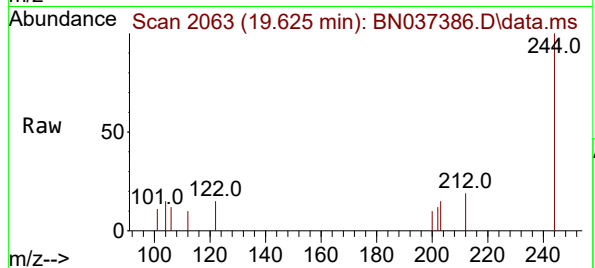
Tgt Ion:202 Resp: 2006
Ion Ratio Lower Upper
202 100
200 21.0 16.5 24.7
203 18.0 14.2 21.2





#31
Terphenyl-d14
Concen: 0.094 ng
RT: 19.625 min Scan# 2063
Delta R.T. 0.009 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

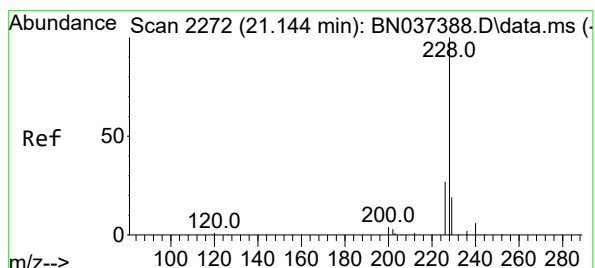
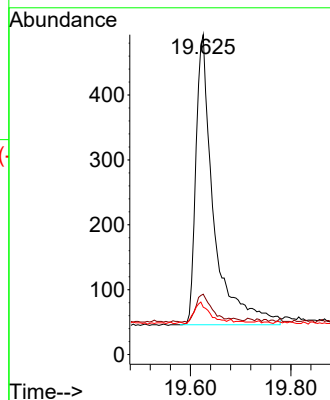
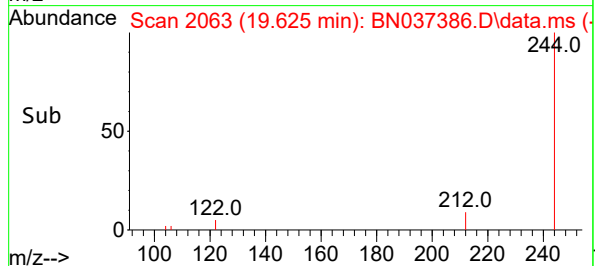
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:244 Resp: 1099
Ion Ratio Lower Upper
244 100
212 18.9 9.1 13.7
122 14.8 6.3 9.5

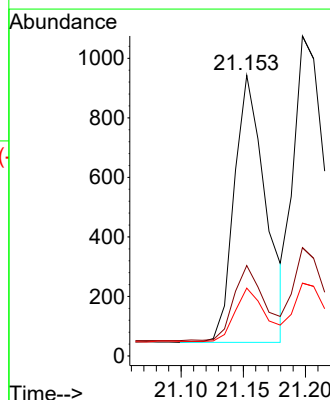
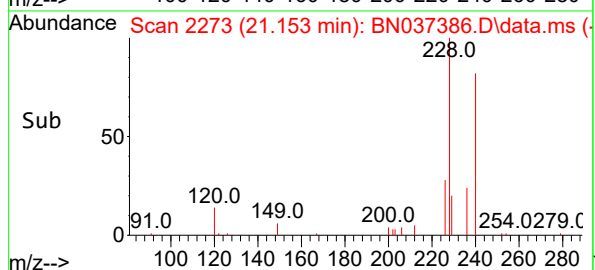
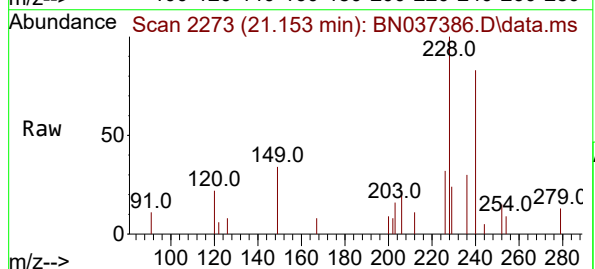
Manual Integrations
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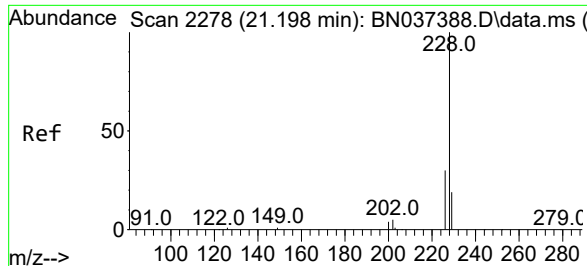
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#32
Benzo(a)anthracene
Concen: 0.091 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.009 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

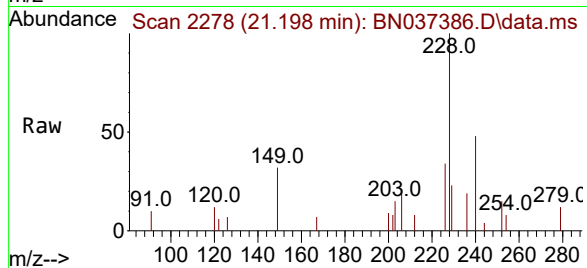
Tgt Ion:228 Resp: 1579
Ion Ratio Lower Upper
228 100
226 32.2 22.6 34.0
229 24.2 16.2 24.2





#33
Chrysene
Concen: 0.105 ng
RT: 21.198 min Scan# 21198
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

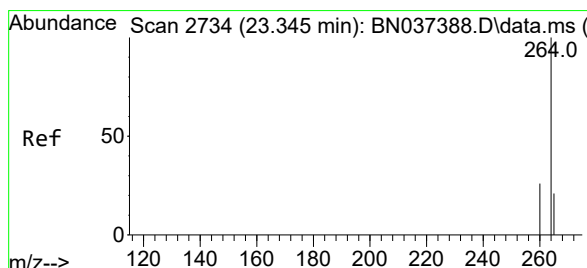
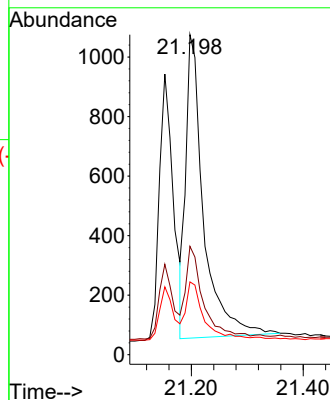
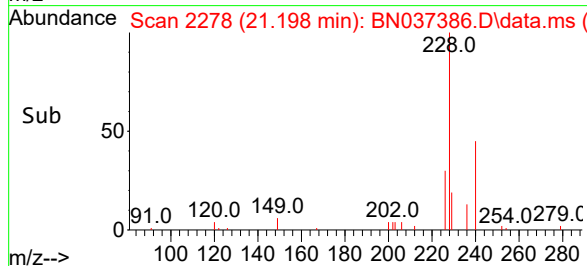
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



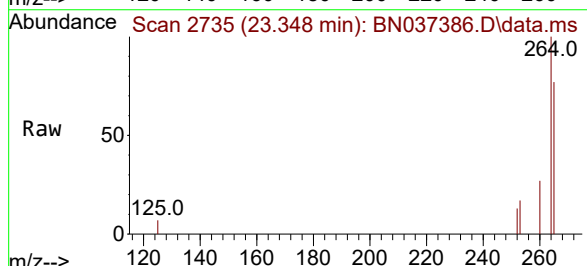
Tgt Ion: 228 Resp: 224
Ion Ratio Lower Upper
228 100
226 33.9 24.5 36.7
229 22.8 16.1 24.1

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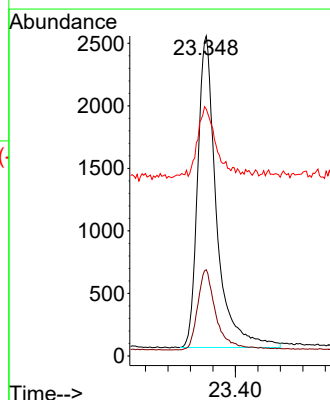
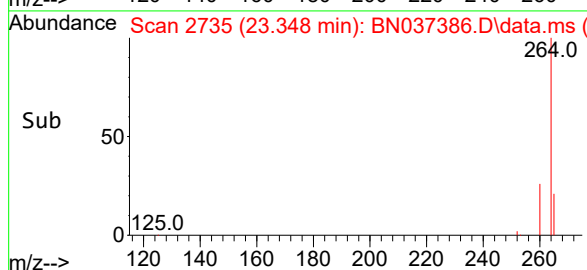
Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025

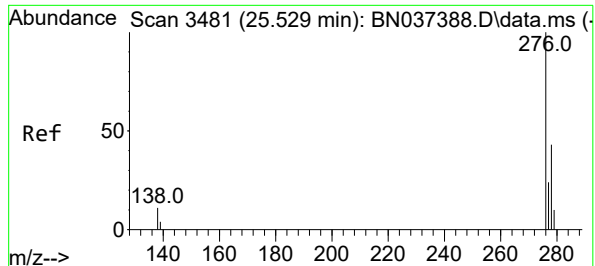


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.348 min Scan# 2735
Delta R.T. 0.003 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41



Tgt Ion: 264 Resp: 5798
Ion Ratio Lower Upper
264 100
260 26.9 21.4 32.0
265 77.1 56.2 84.4





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.088 ng

RT: 25.535 min Scan# 3481

Delta R.T. 0.006 min

Lab File: BN037386.D

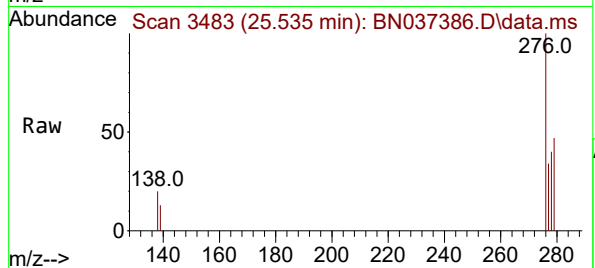
Acq: 26 Jun 2025 10:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1



Tgt Ion:276 Resp: 2150

Ion Ratio Lower Upper

276 100

138 4.1 8.5 12.7

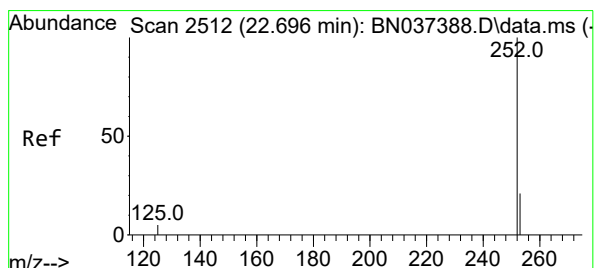
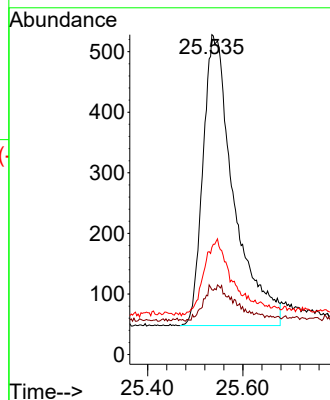
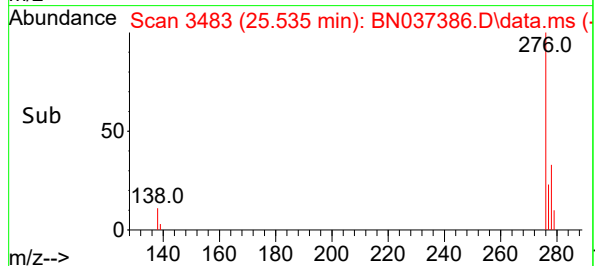
277 21.2 19.7 29.5

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 06/27/2025

Supervised By :Jagrut Upadhyay 06/27/2025



#37

Benzo(b)fluoranthene

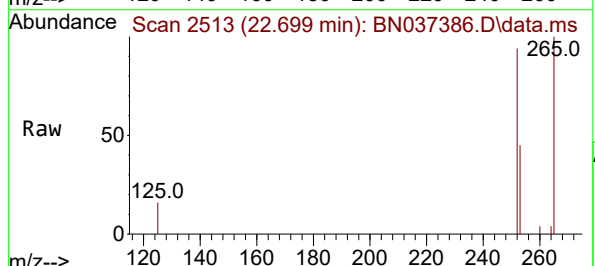
Concen: 0.094 ng

RT: 22.699 min Scan# 2513

Delta R.T. 0.003 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41



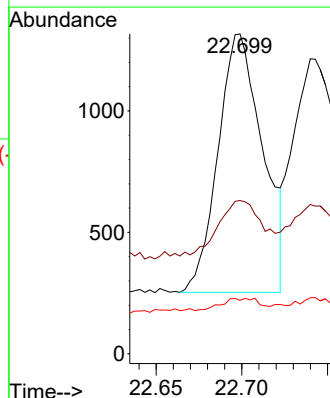
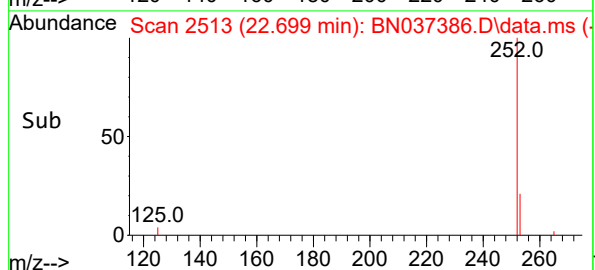
Tgt Ion:252 Resp: 1927

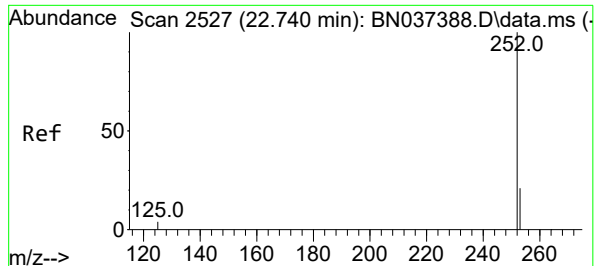
Ion Ratio Lower Upper

252 100

253 47.9 22.8 34.2#

125 16.7 6.2 9.4#





#38

Benzo(k)fluoranthene

Concen: 0.093 ng

RT: 22.740 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

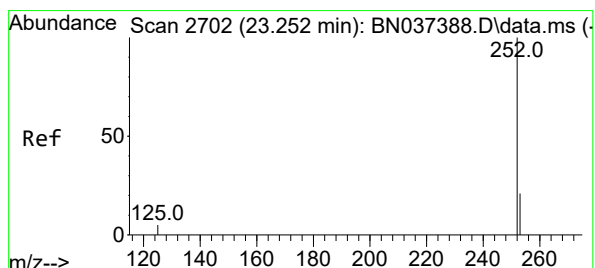
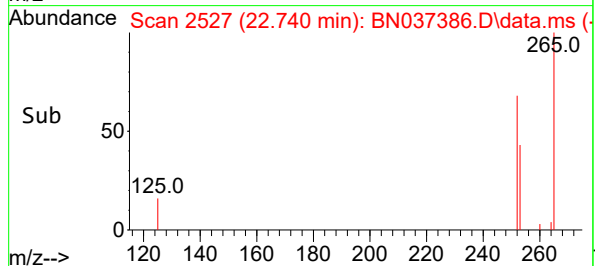
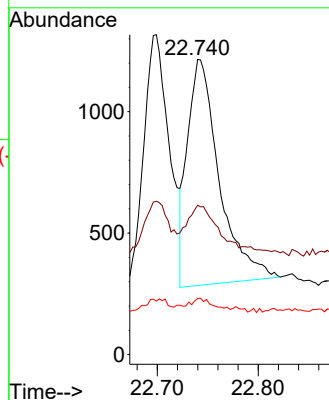
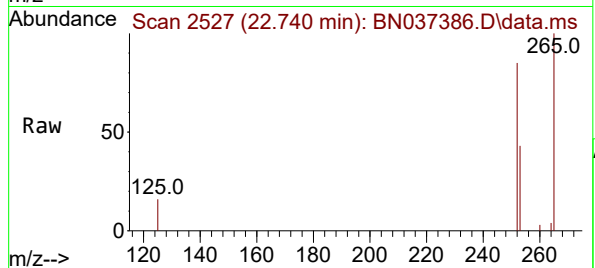
Tgt Ion:	252	Resp:	204
Ion Ratio	Lower	Upper	
252	100		
253	50.6	23.2	34.8
125	19.0	6.0	9.0

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 06/27/2025

Supervised By :Jagrut Upadhyay 06/27/2025



#39

Benzo(a)pyrene

Concen: 0.097 ng

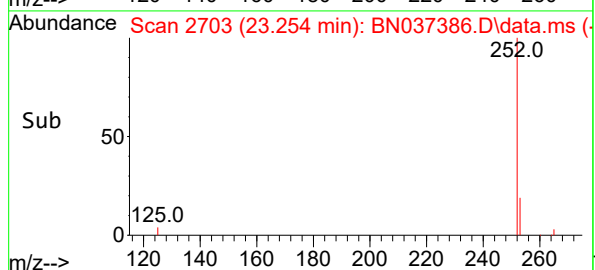
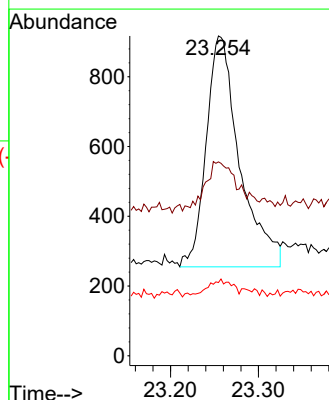
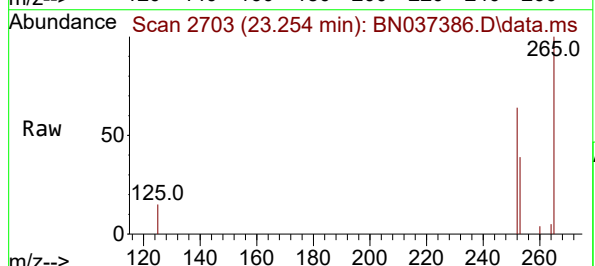
RT: 23.254 min Scan# 2703

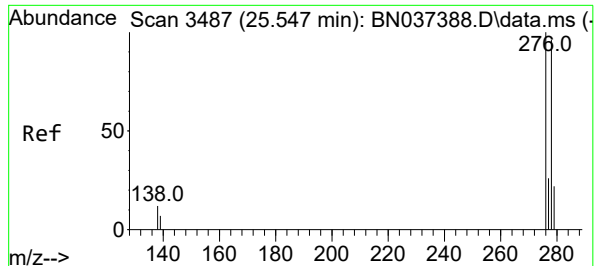
Delta R.T. 0.003 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

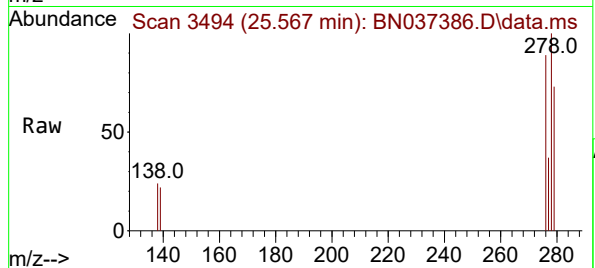
Tgt Ion:	252	Resp:	1755
Ion Ratio	Lower	Upper	
252	100		
253	60.6	25.6	38.4
125	22.9	7.5	11.3





#40
Dibenzo(a,h)anthracene
Concen: 0.081 ng
RT: 25.567 min Scan# 3487
Delta R.T. 0.020 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

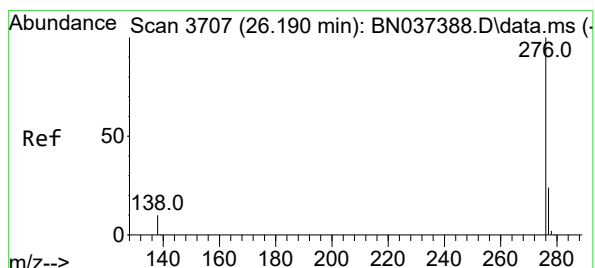
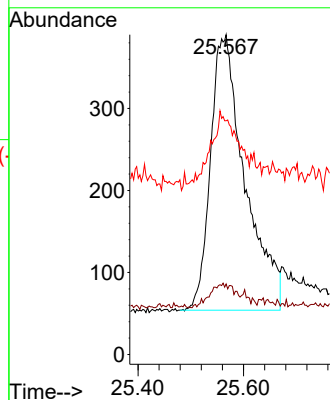
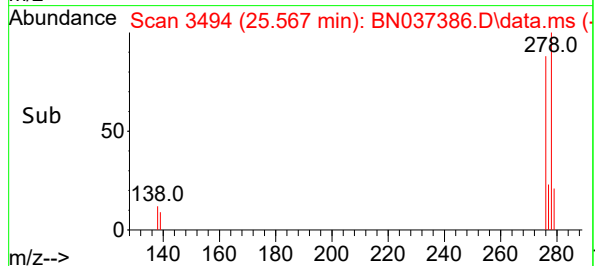
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion: 278 Resp: 152
Ion Ratio Lower Upper
278 100
139 22.1 8.5 12.7
279 73.1 27.5 41.3

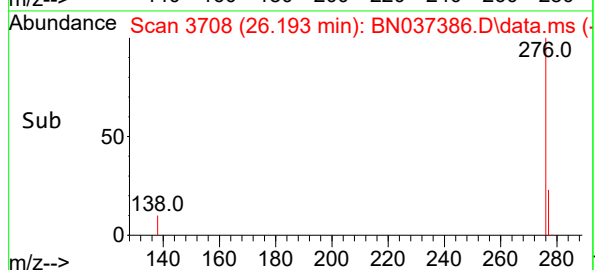
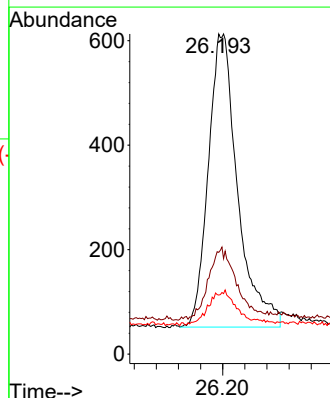
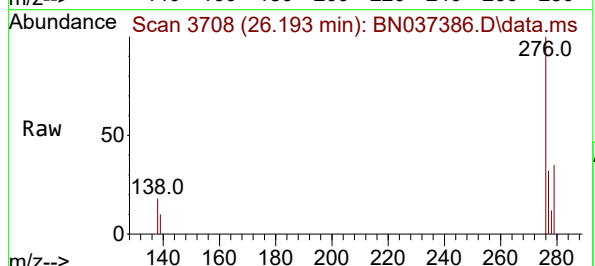
Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 06/27/2025
Supervised By :Jagrut Upadhyay 06/27/2025



#41
Benzo(g,h,i)perylene
Concen: 0.092 ng
RT: 26.193 min Scan# 3708
Delta R.T. 0.003 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion: 276 Resp: 2066
Ion Ratio Lower Upper
276 100
277 31.8 21.0 31.4#
138 18.4 9.6 14.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
 Data File : BN037387.D
 Acq On : 26 Jun 2025 11:17
 Operator : RC/JU
 Sample : SSTDICC0.2
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.2

Quant Time: Jun 26 16:05:20 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 16:05:06 2025
 Response via : Initial Calibration

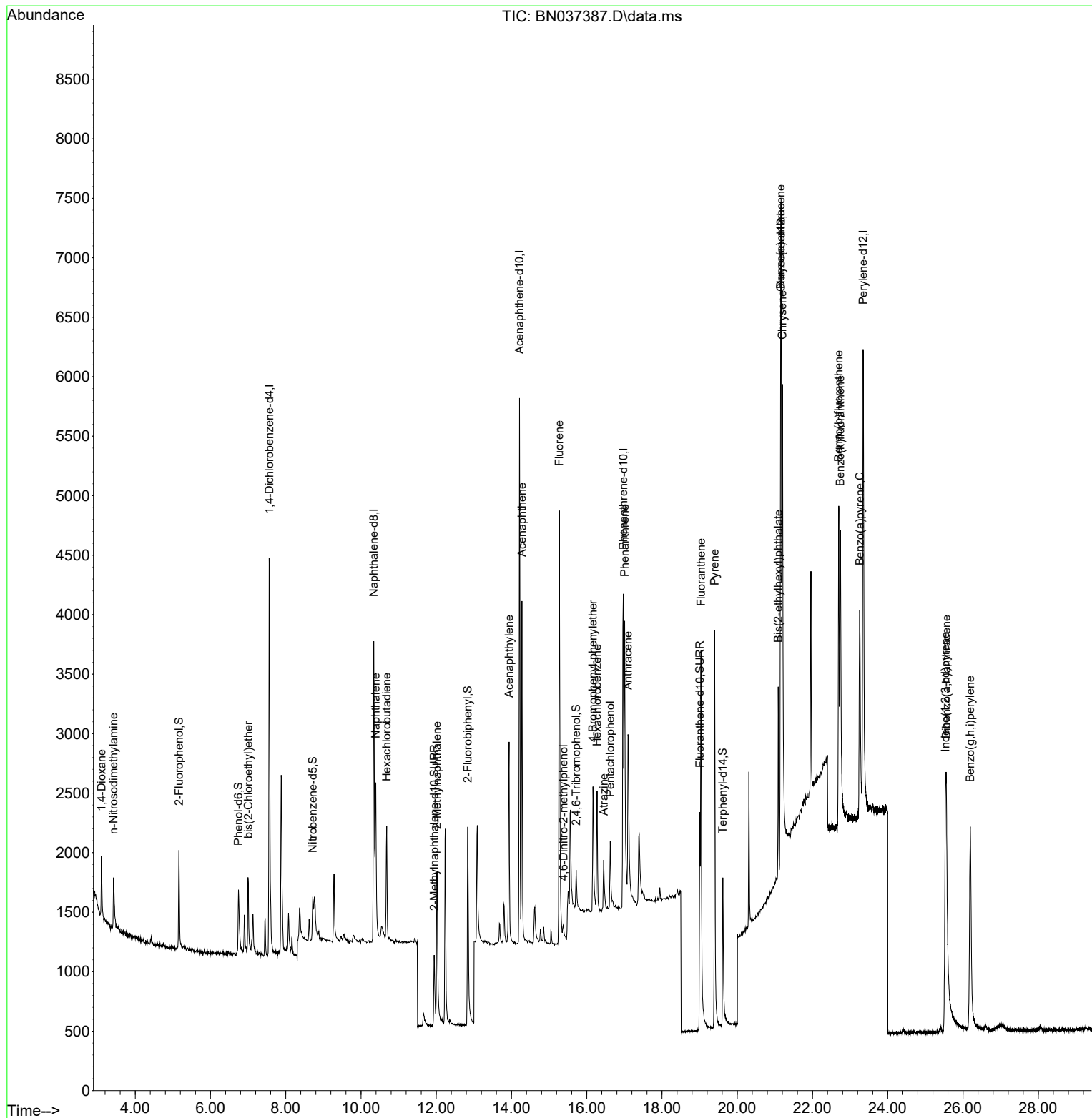
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.561	152	1946	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4021	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2635	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5416	0.400	ng	# 0.01
29) Chrysene-d12	21.162	240	5370	0.400	ng	# 0.00
35) Perylene-d12	23.345	264	5780	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	757	0.202	ng	0.00
5) Phenol-d6	6.744	99	687	0.177	ng	0.00
8) Nitrobenzene-d5	8.717	82	565	0.175	ng	0.00
11) 2-Methylnaphthalene-d10	11.945	152	1139	0.183	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	273	0.177	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	2182	0.192	ng	0.00
27) Fluoranthene-d10	19.008	212	3080	0.198	ng	0.00
31) Terphenyl-d14	19.616	244	2132	0.186	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	457	0.248	ng	# 88
3) n-Nitrosodimethylamine	3.422	42	367	0.201	ng	99
6) bis(2-Chloroethyl)ether	7.004	93	643	0.186	ng	98
9) Naphthalene	10.394	128	2012	0.194	ng	94
10) Hexachlorobutadiene	10.682	225	824	0.201	ng	# 98
12) 2-Methylnaphthalene	12.016	142	1337	0.188	ng	98
16) Acenaphthylene	13.935	152	2108	0.193	ng	99
17) Acenaphthene	14.277	154	1353	0.190	ng	99
18) Fluorene	15.272	166	1867	0.185	ng	98
20) 4,6-Dinitro-2-methylph...	15.378	198	228	0.164	ng	# 46
21) 4-Bromophenyl-phenylether	16.165	248	684	0.179	ng	# 92
22) Hexachlorobenzene	16.276	284	809	0.197	ng	98
23) Atrazine	16.450	200	563	0.186	ng	# 89
24) Pentachlorophenol	16.624	266	445	0.201	ng	94
25) Phenanthrene	17.009	178	2890	0.189	ng	99
26) Anthracene	17.096	178	2632	0.188	ng	98
28) Fluoranthene	19.035	202	3786	0.194	ng	99
30) Pyrene	19.398	202	3891	0.191	ng	99
32) Benzo(a)anthracene	21.153	228	3228	0.191	ng	99
33) Chrysene	21.198	228	4224	0.202	ng	97
34) Bis(2-ethylhexyl)phtha...	21.090	149	1366	0.204	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.532	276	4378	0.180	ng	# 95
37) Benzo(b)fluoranthene	22.696	252	3772	0.185	ng	# 88
38) Benzo(k)fluoranthene	22.740	252	4013	0.184	ng	# 87
39) Benzo(a)pyrene	23.254	252	3352	0.185	ng	# 84
40) Dibenzo(a,h)anthracene	25.555	278	3290	0.176	ng	# 82
41) Benzo(g,h,i)perylene	26.193	276	4258	0.190	ng	# 95

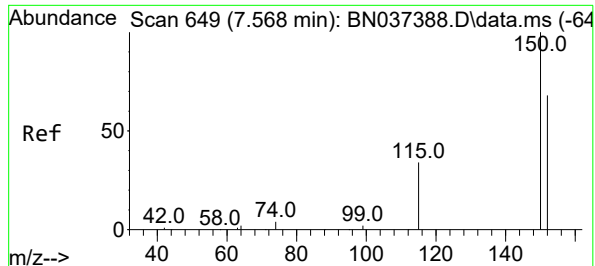
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037387.D
Acq On : 26 Jun 2025 11:17
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Jun 26 16:05:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:05:06 2025
Response via : Initial Calibration

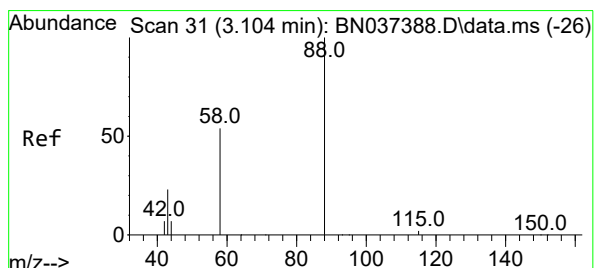
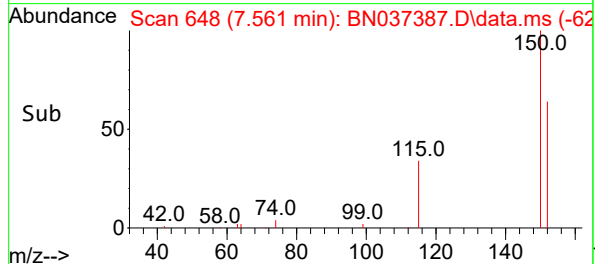
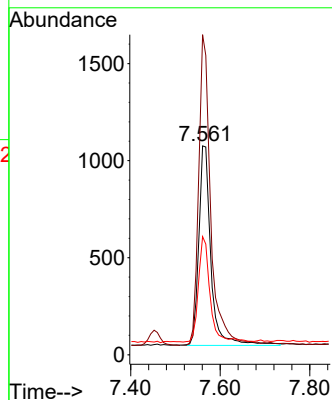
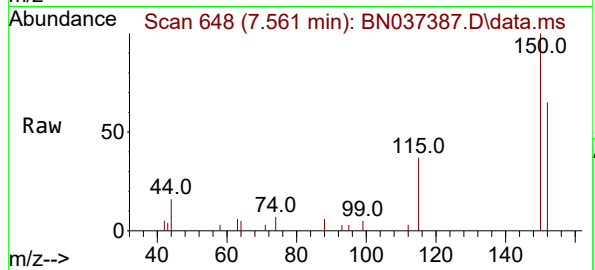




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.561 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

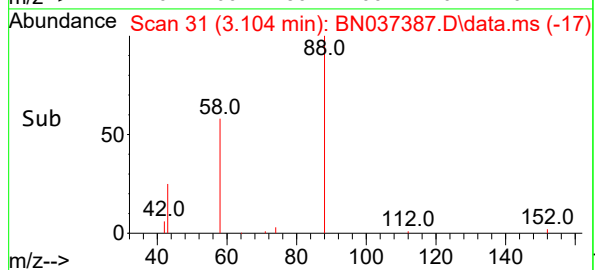
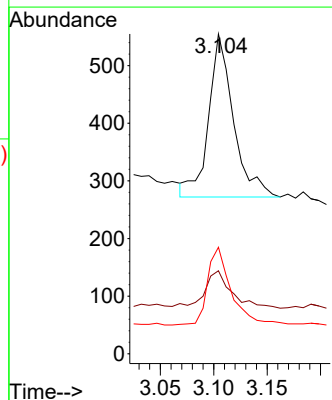
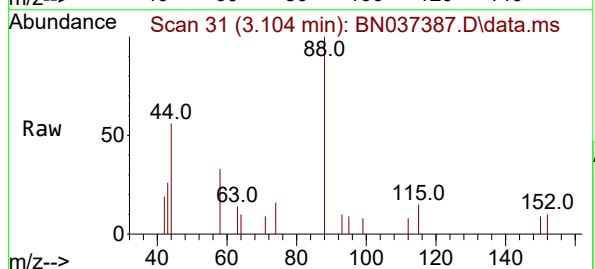
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.2

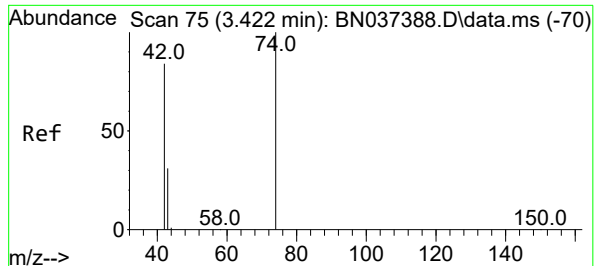
Tgt Ion:152 Resp: 1946
Ion Ratio Lower Upper
152 100
150 153.3 116.2 174.2
115 56.6 42.9 64.3



#2
1,4-Dioxane
Concen: 0.248 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion: 88 Resp: 457
Ion Ratio Lower Upper
88 100
43 24.9 21.6 32.4
58 45.5 45.9 68.9#

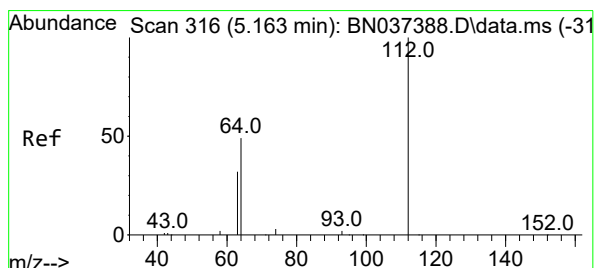
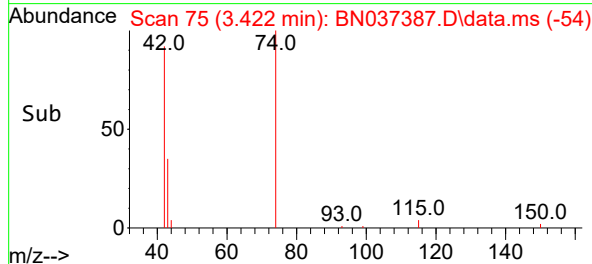
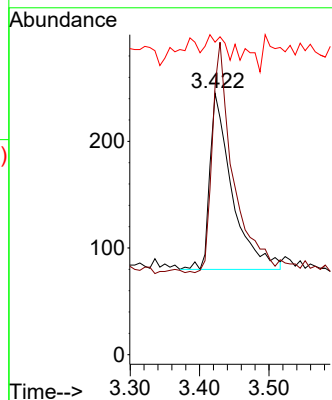
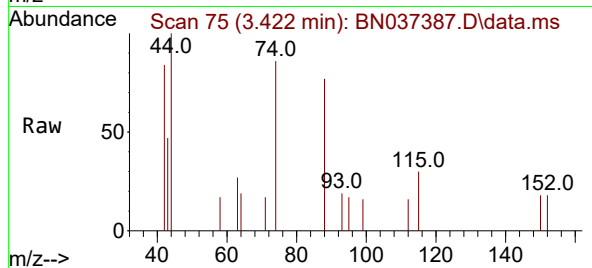




#3
n-Nitrosodimethylamine
Concen: 0.201 ng
RT: 3.422 min Scan# 75
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

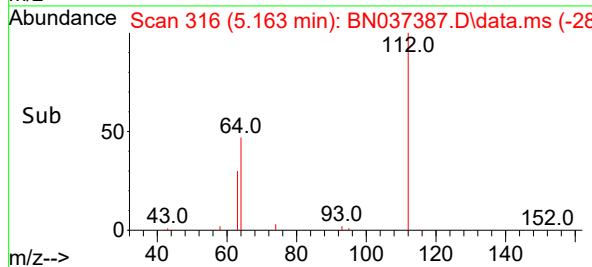
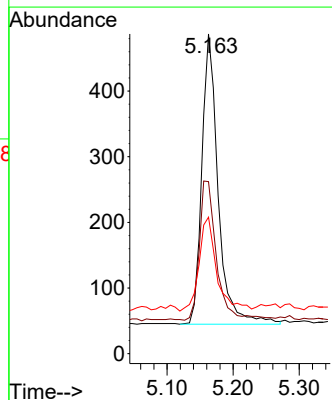
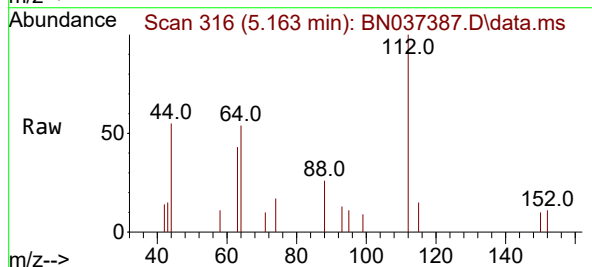
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

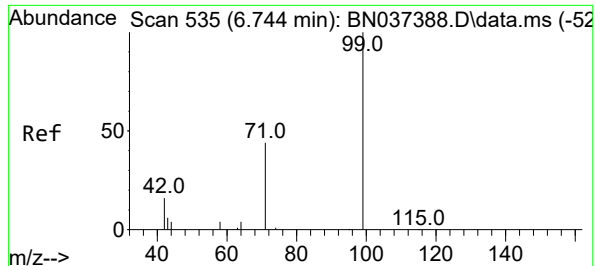
Tgt Ion: 42 Resp: 367
Ion Ratio Lower Upper
42 100
74 123.2 97.8 146.8
44 11.4 8.7 13.1



#4
2-Fluorophenol
Concen: 0.202 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion: 112 Resp: 757
Ion Ratio Lower Upper
112 100
64 51.0 40.3 60.5
63 35.1 26.1 39.1

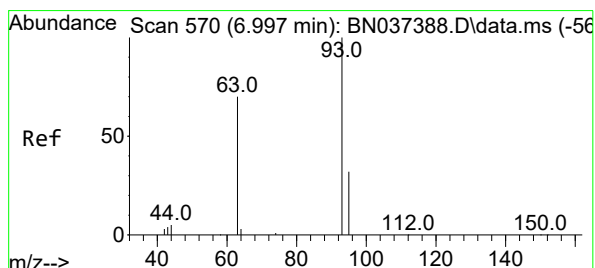
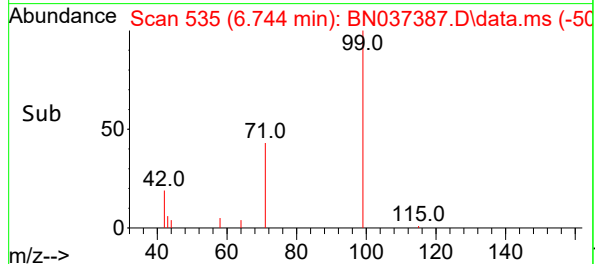
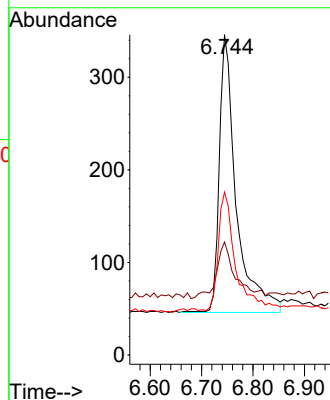
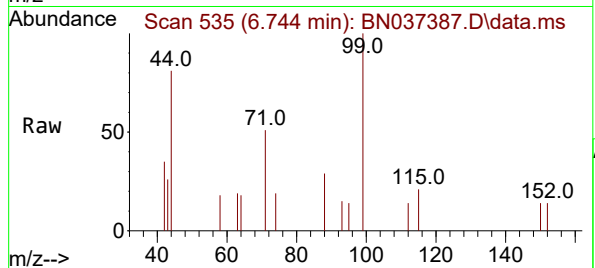




#5
Phenol-d6
Concen: 0.177 ng
RT: 6.744 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

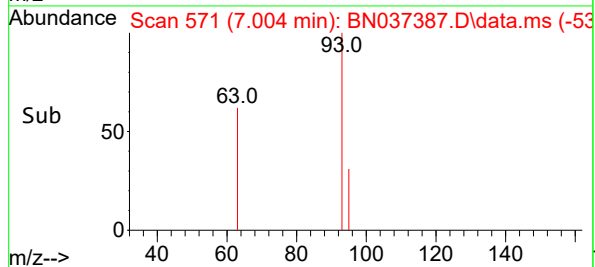
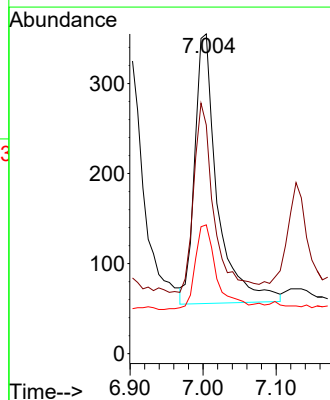
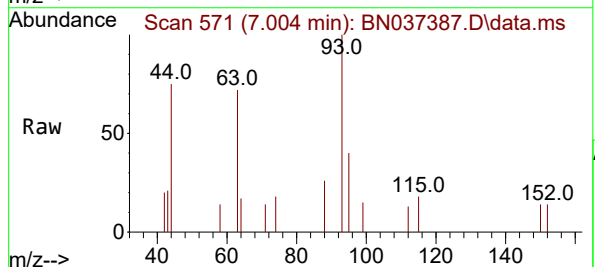
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

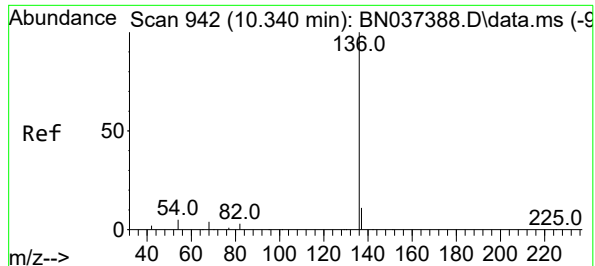
Tgt Ion:	99	Resp:	687
Ion	Ratio	Lower	Upper
99	100		
42	23.0	15.6	23.4
71	44.1	35.8	53.8



#6
bis(2-Chloroethyl)ether
Concen: 0.186 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.007 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:	93	Resp:	643
Ion	Ratio	Lower	Upper
93	100		
63	63.9	49.6	74.4
95	30.2	23.9	35.9

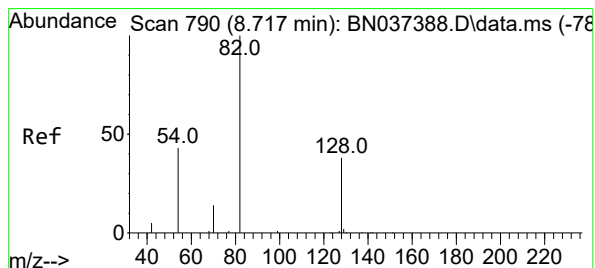
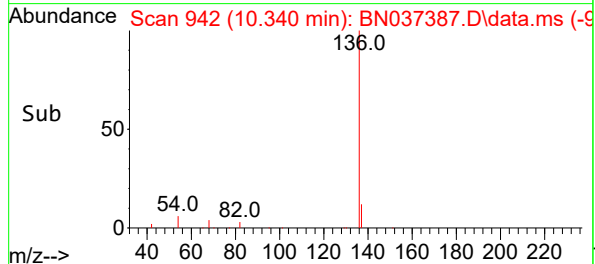
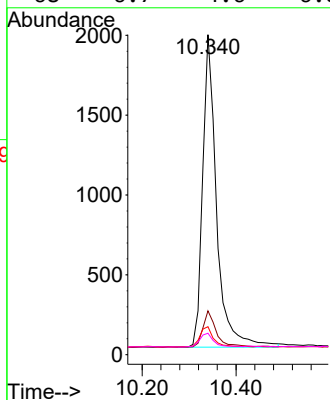
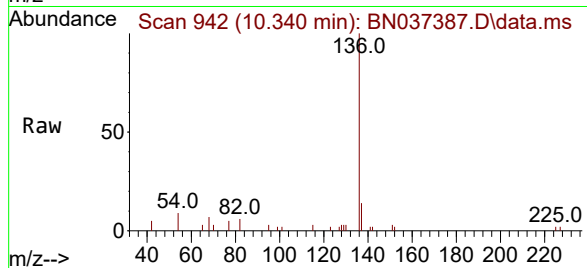




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

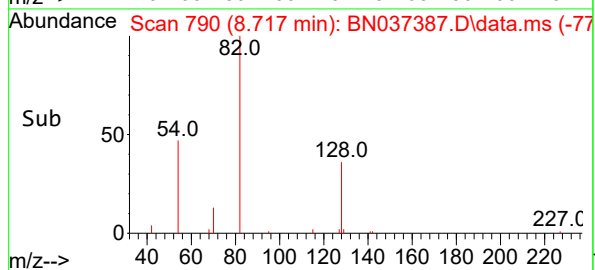
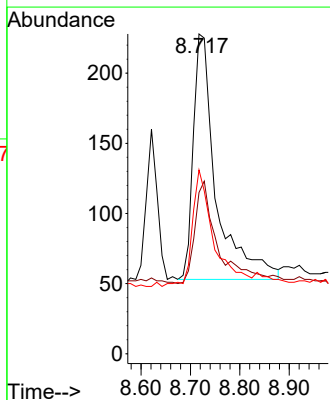
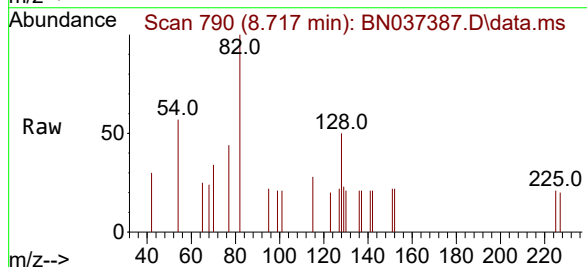
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

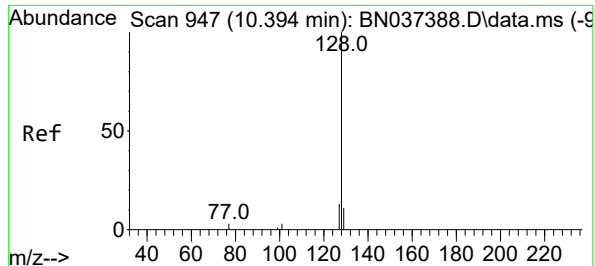
Tgt Ion:	136	Resp:	4021
Ion	Ratio	Lower	Upper
136	100		
137	13.7	10.4	15.6
54	8.7	5.6	8.4#
68	6.7	4.6	6.8



#8
Nitrobenzene-d5
Concen: 0.175 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:	82	Resp:	565
Ion	Ratio	Lower	Upper
82	100		
128	50.4	34.0	51.0
54	57.5	37.7	56.5#





#9

Naphthalene

Concen: 0.194 ng

RT: 10.394 min Scan# 947

Delta R.T. 0.000 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

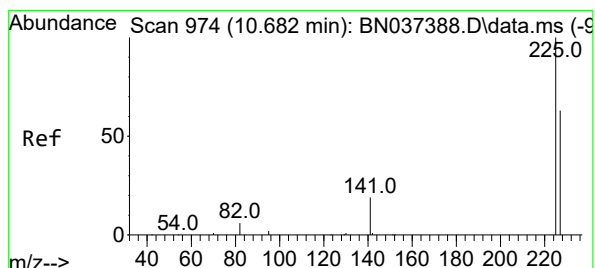
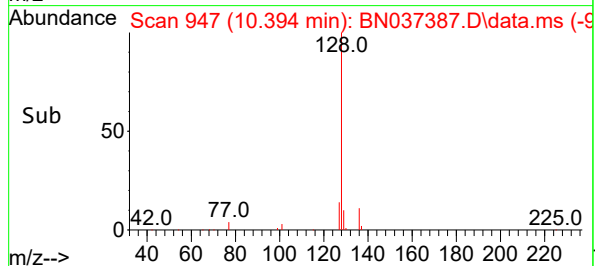
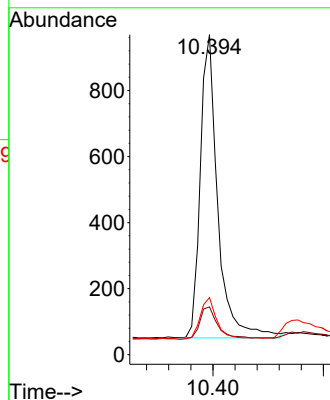
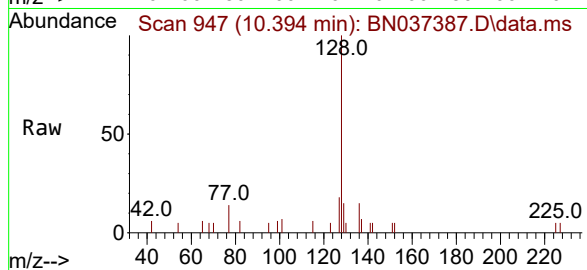
Tgt Ion:128 Resp: 2012

Ion Ratio Lower Upper

128 100

129 15.0 10.4 15.6

127 17.9 12.2 18.4



#10

Hexachlorobutadiene

Concen: 0.201 ng

RT: 10.682 min Scan# 974

Delta R.T. 0.000 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

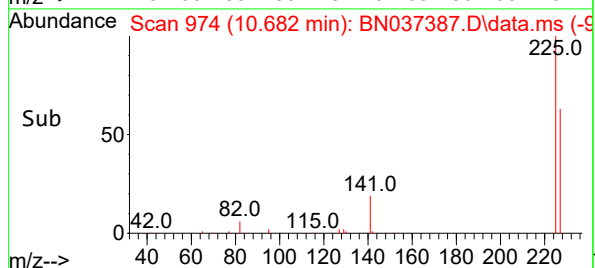
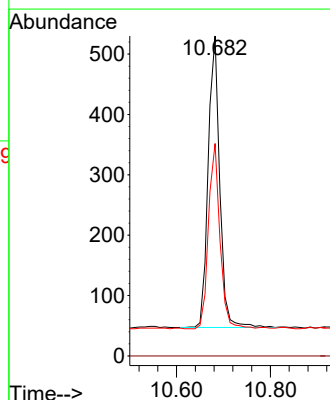
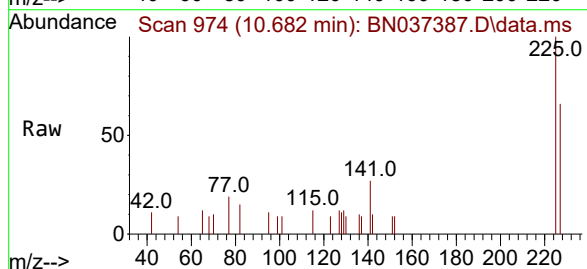
Tgt Ion:225 Resp: 824

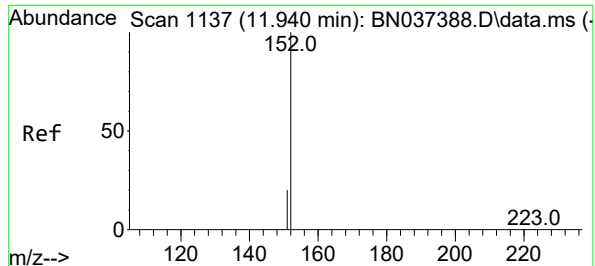
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.6 49.9 74.9

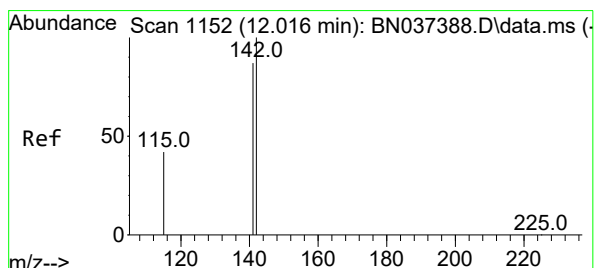
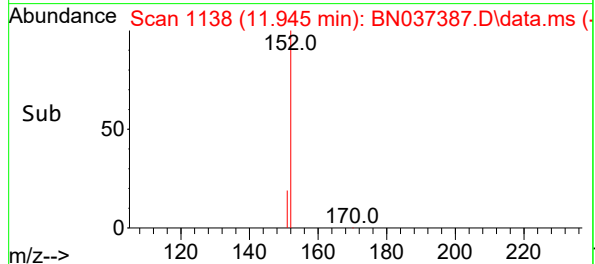
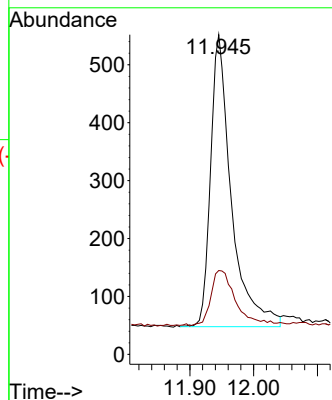
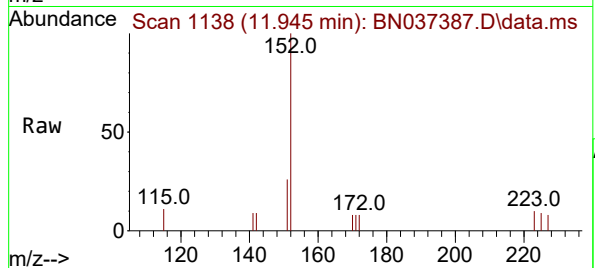




#11
2-Methylnaphthalene-d10
Concen: 0.183 ng
RT: 11.945 min Scan# 1137
Delta R.T. 0.005 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

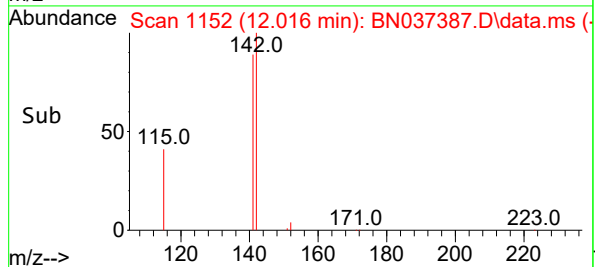
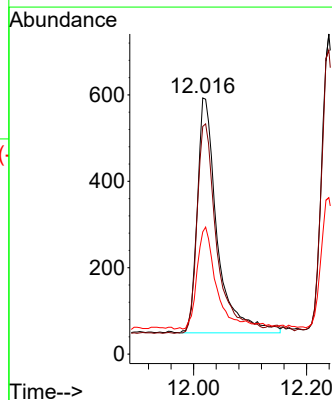
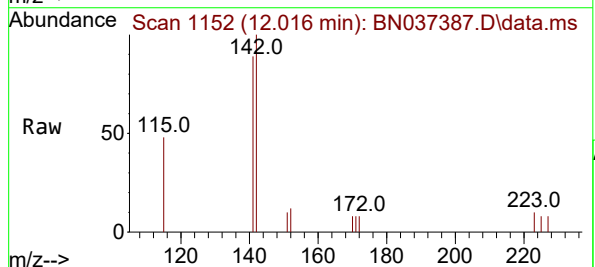
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

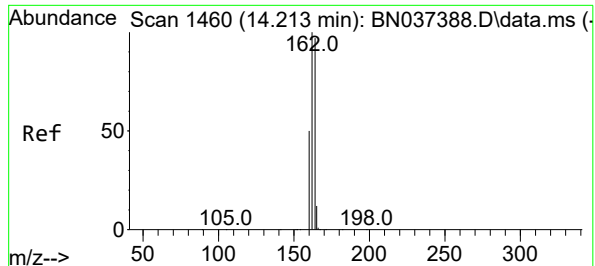
Tgt Ion:152 Resp: 1139
Ion Ratio Lower Upper
152 100
151 23.1 18.4 27.6



#12
2-Methylnaphthalene
Concen: 0.188 ng
RT: 12.016 min Scan# 1152
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:142 Resp: 1337
Ion Ratio Lower Upper
142 100
141 88.9 70.1 105.1
115 47.7 35.8 53.6

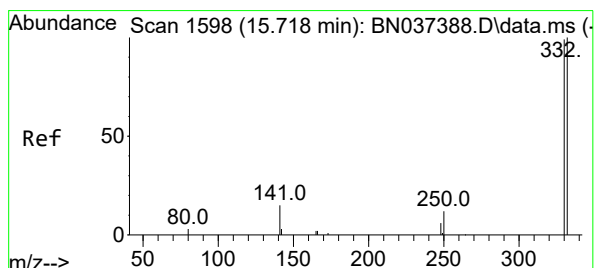
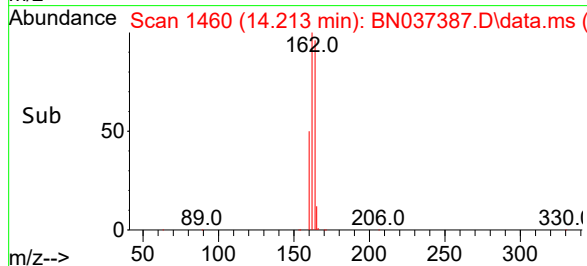
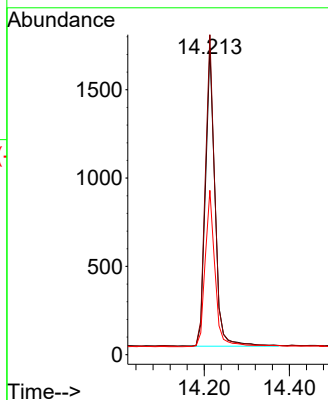
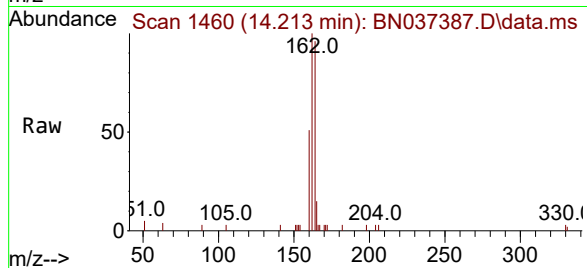




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

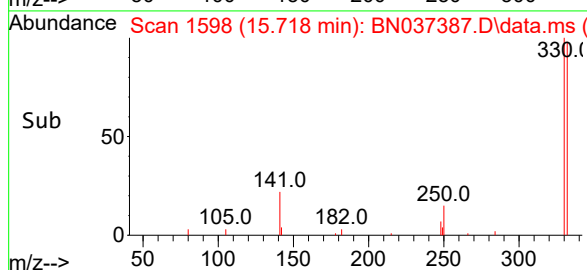
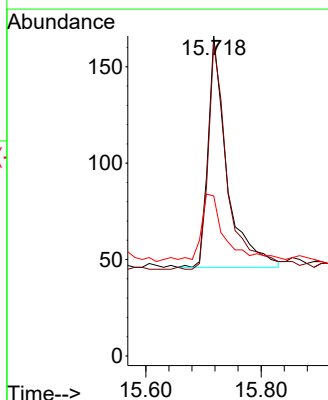
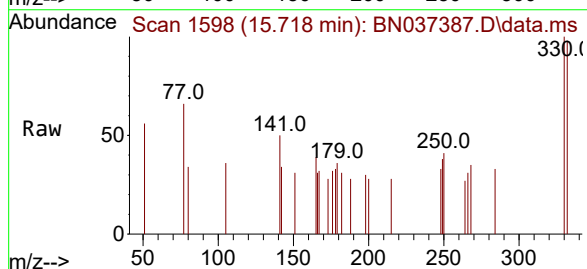
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

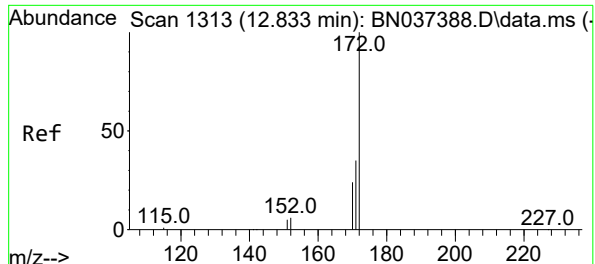
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.4	82.6	123.8
160	53.6	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.177 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion	Ratio	Lower	Upper
330	100		
332	101.8	77.8	116.8
141	35.2	24.0	36.0





#15

2-Fluorobiphenyl

Concen: 0.192 ng

RT: 12.838 min Scan# 1313

Delta R.T. 0.005 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2

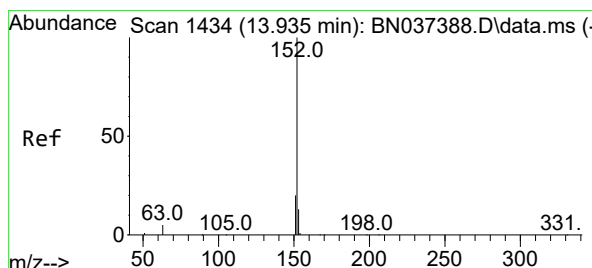
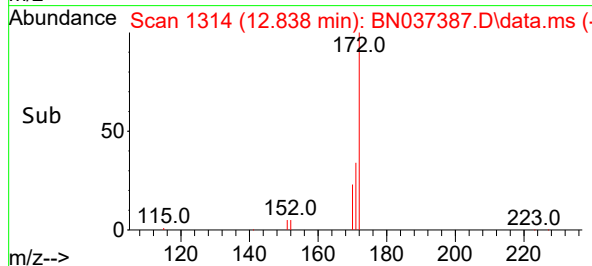
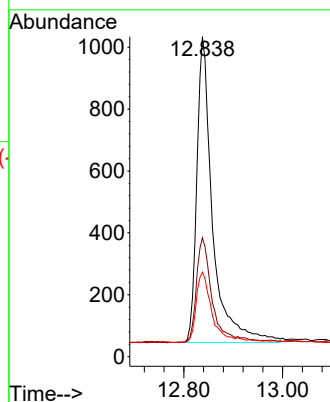
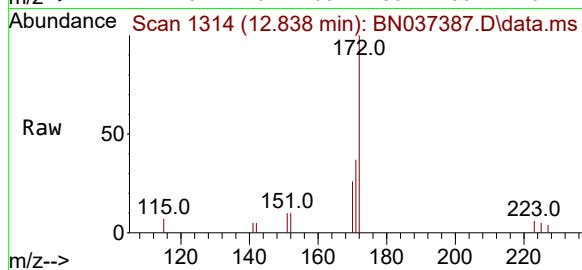
Tgt Ion:172 Resp: 2182

Ion Ratio Lower Upper

172 100

171 37.1 28.8 43.2

170 26.4 20.3 30.5



#16

Acenaphthylene

Concen: 0.193 ng

RT: 13.935 min Scan# 1434

Delta R.T. 0.000 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

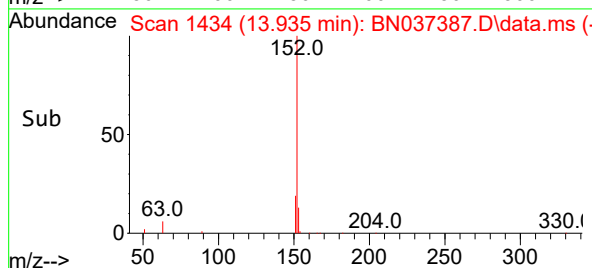
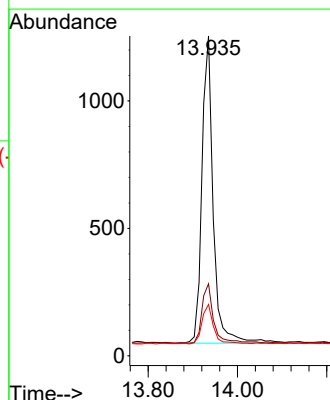
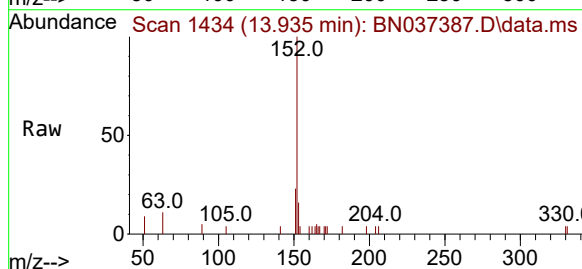
Tgt Ion:152 Resp: 2108

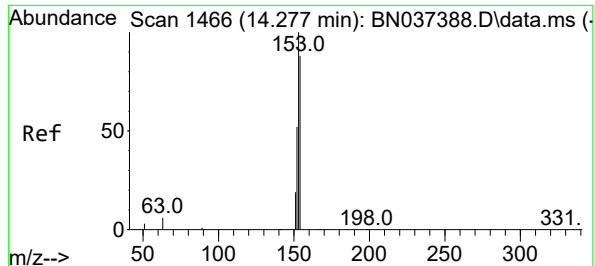
Ion Ratio Lower Upper

152 100

151 20.2 15.8 23.6

153 12.8 10.3 15.5





#17

Acenaphthene

Concen: 0.190 ng

RT: 14.277 min Scan# 1466

Delta R.T. 0.000 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

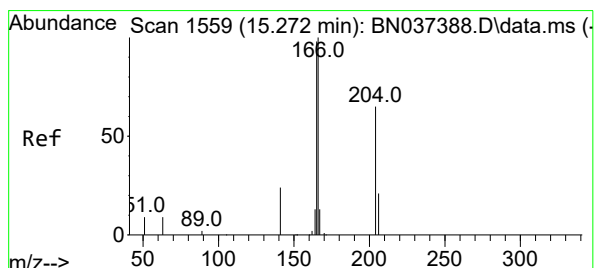
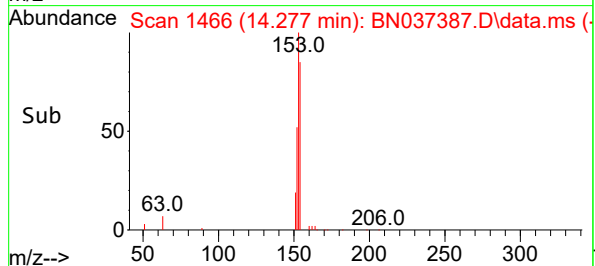
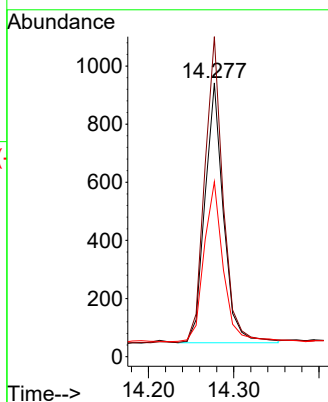
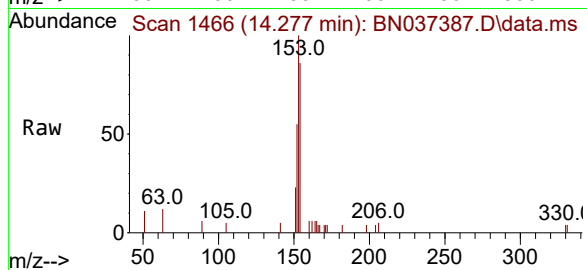
Tgt Ion:154 Resp: 1353

Ion Ratio Lower Upper

154 100

153 118.8 94.6 141.8

152 63.5 50.2 75.2



#18

Fluorene

Concen: 0.185 ng

RT: 15.272 min Scan# 1559

Delta R.T. 0.000 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

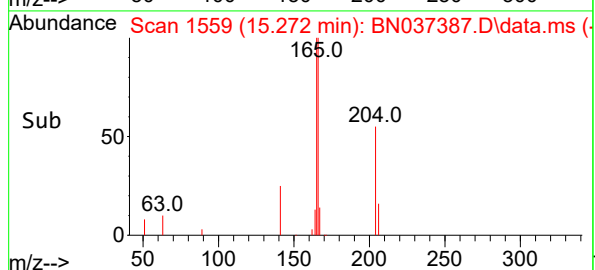
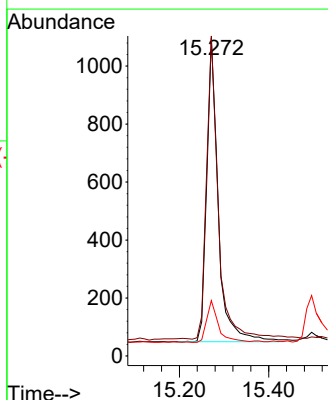
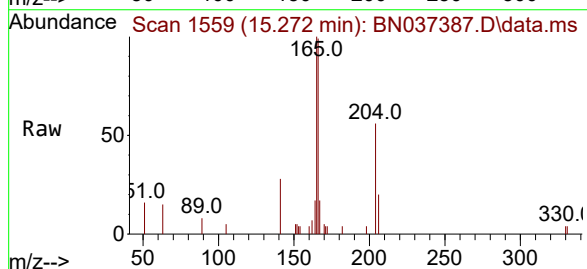
Tgt Ion:166 Resp: 1867

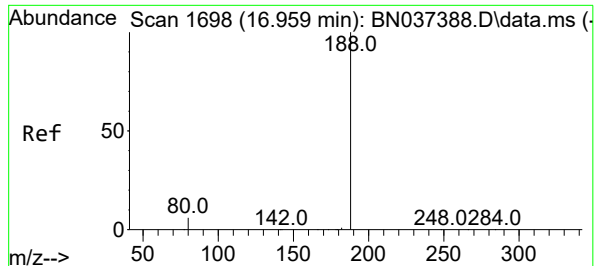
Ion Ratio Lower Upper

166 100

165 101.4 79.4 119.2

167 14.0 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.012 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

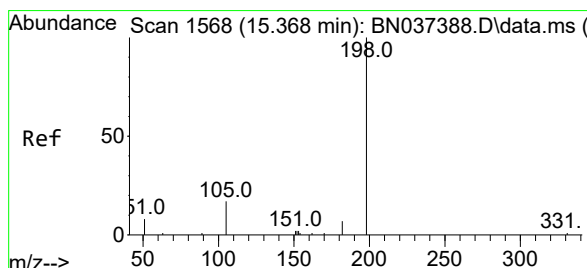
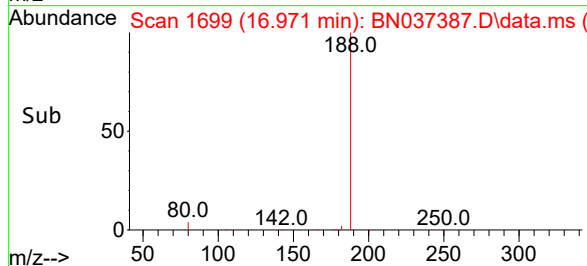
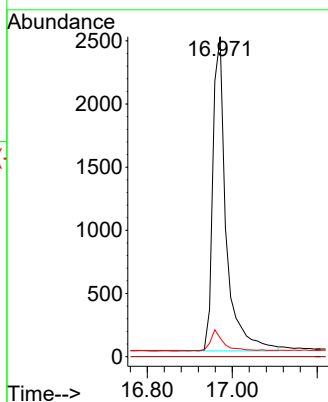
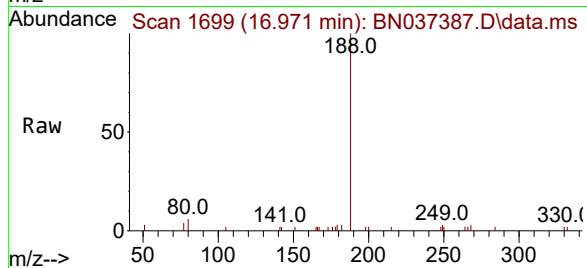
Tgt Ion:188 Resp: 5416

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.8 6.2 9.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.164 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.011 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

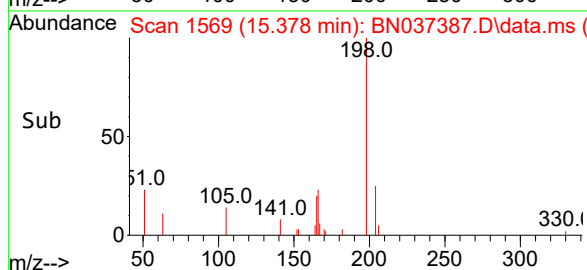
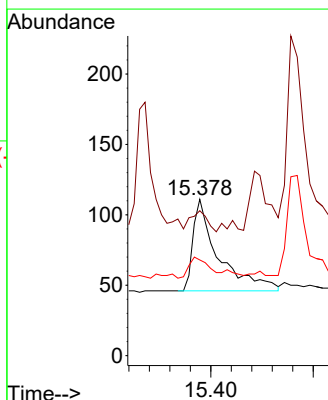
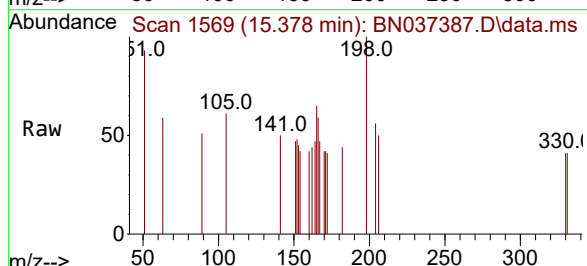
Tgt Ion:198 Resp: 228

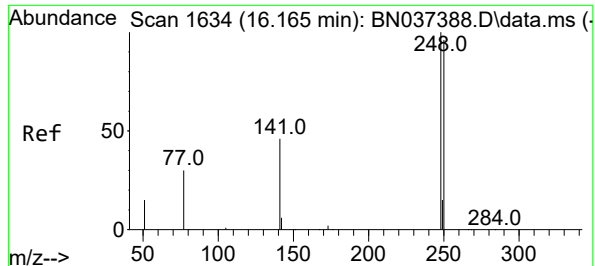
Ion Ratio Lower Upper

198 100

51 92.8 38.8 58.2#

105 61.3 29.8 44.6#

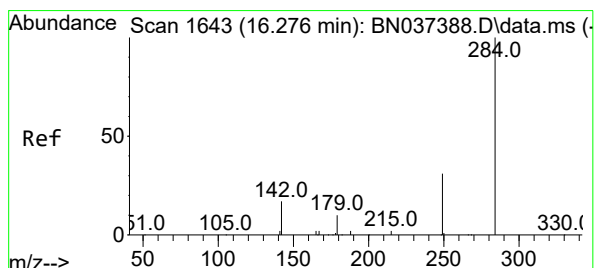
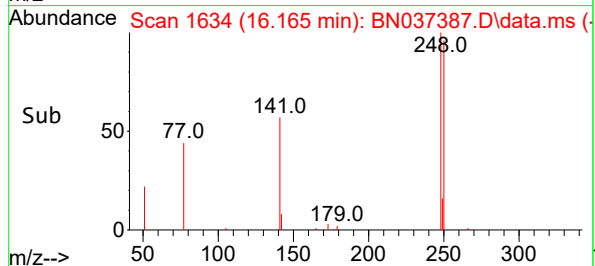
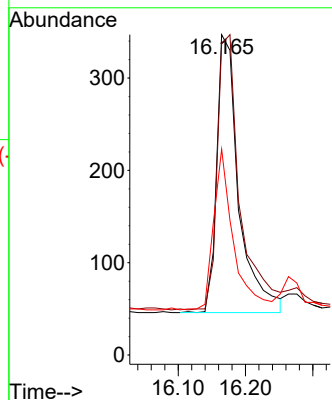
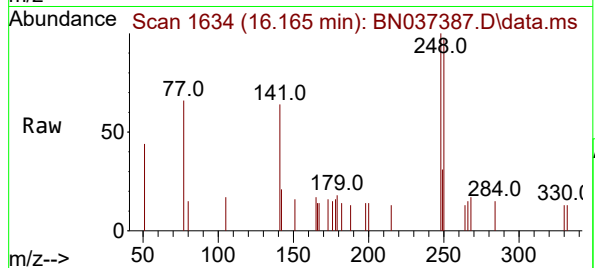




#21
4-Bromophenyl-phenylether
Concen: 0.179 ng
RT: 16.165 min Scan# 1634
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

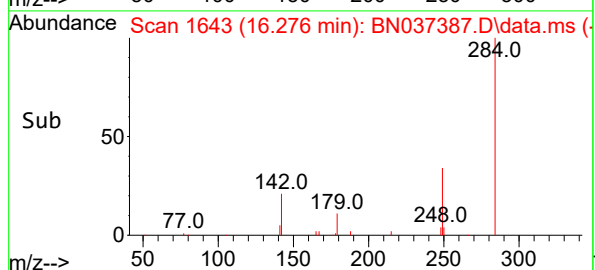
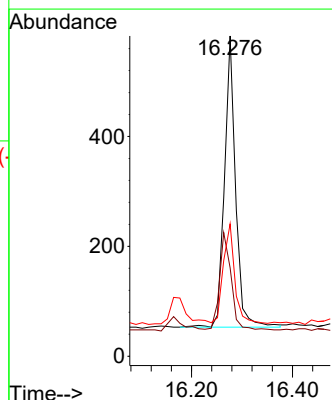
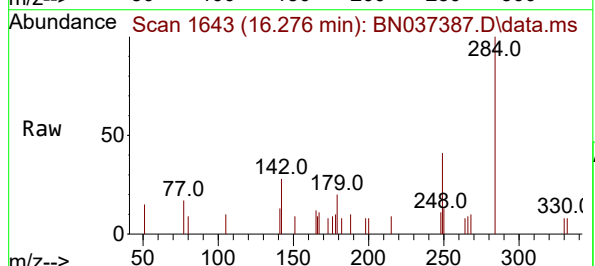
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

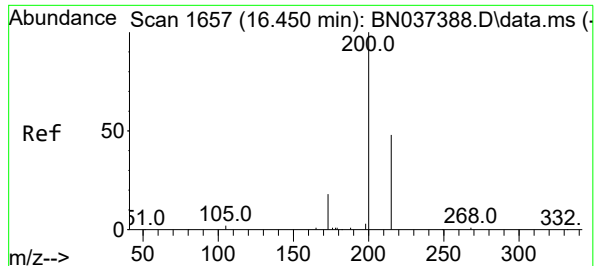
Tgt Ion:248 Resp: 684
Ion Ratio Lower Upper
248 100
250 97.1 77.0 115.4
141 64.3 38.7 58.1#



#22
Hexachlorobenzene
Concen: 0.197 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:284 Resp: 809
Ion Ratio Lower Upper
284 100
142 35.0 27.2 40.8
249 35.1 26.7 40.1

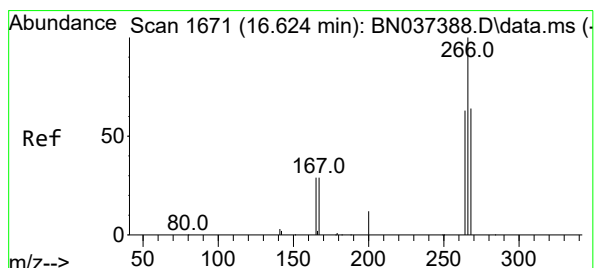
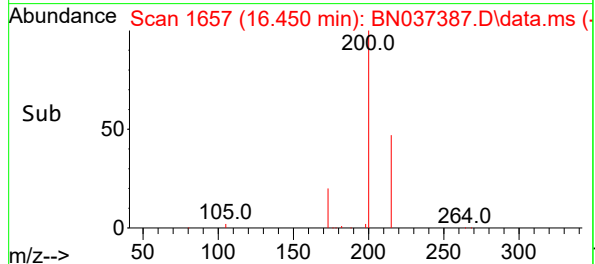
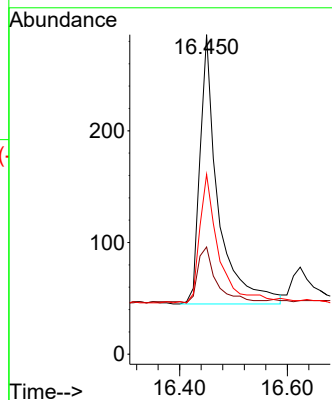
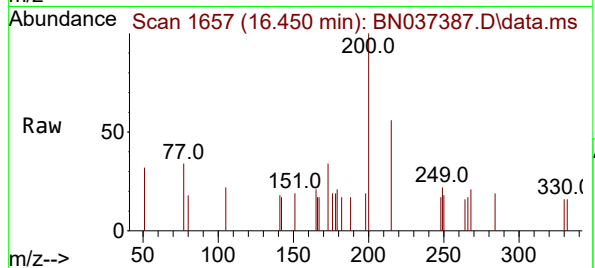




#23
Atrazine
Concen: 0.186 ng
RT: 16.450 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

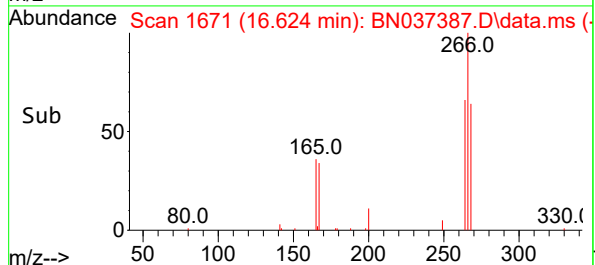
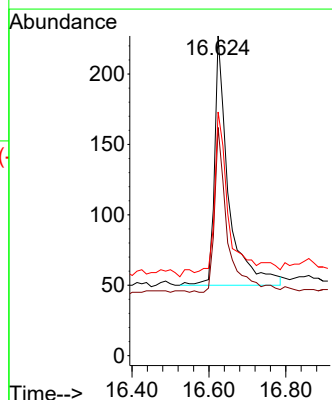
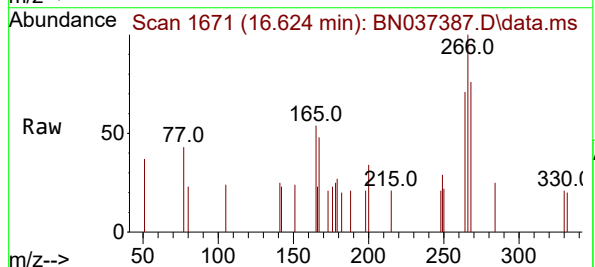
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

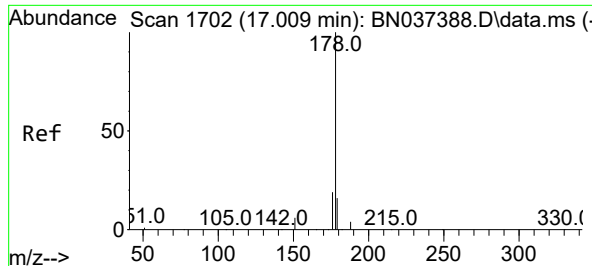
Tgt Ion:200 Resp: 563
Ion Ratio Lower Upper
200 100
173 33.6 19.0 28.6#
215 56.3 41.3 61.9



#24
Pentachlorophenol
Concen: 0.201 ng
RT: 16.624 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:266 Resp: 445
Ion Ratio Lower Upper
266 100
264 61.6 49.2 73.8
268 59.1 54.2 81.4

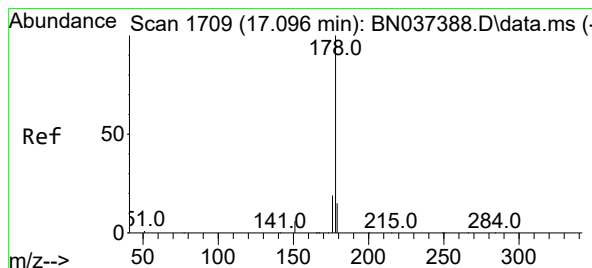
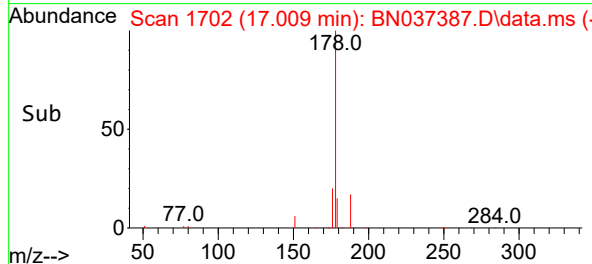
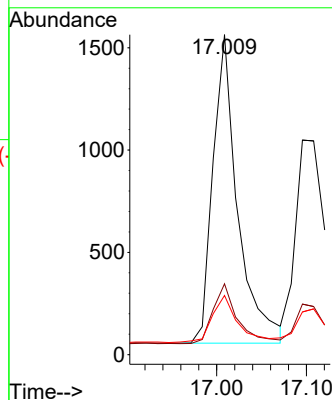
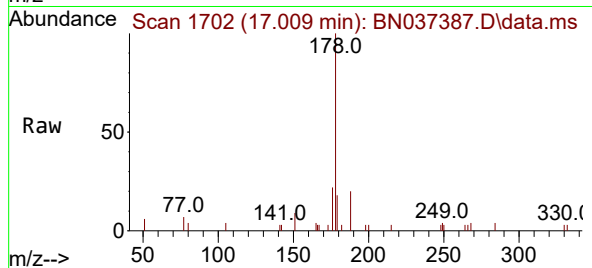




#25
Phenanthrene
Concen: 0.189 ng
RT: 17.009 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

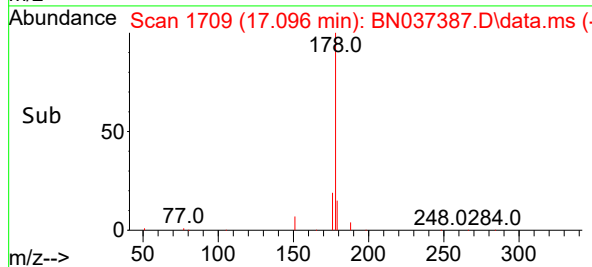
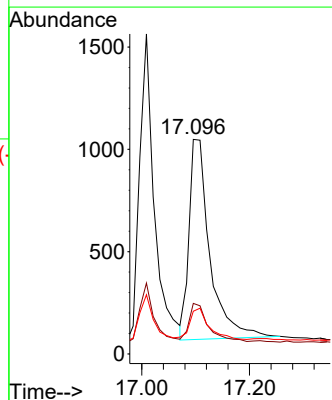
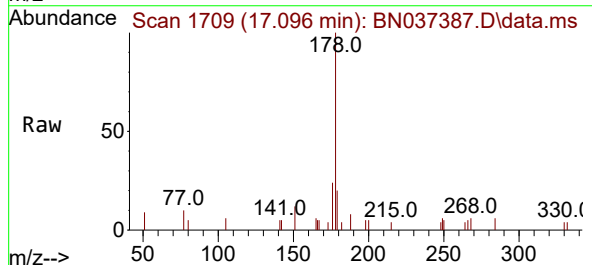
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

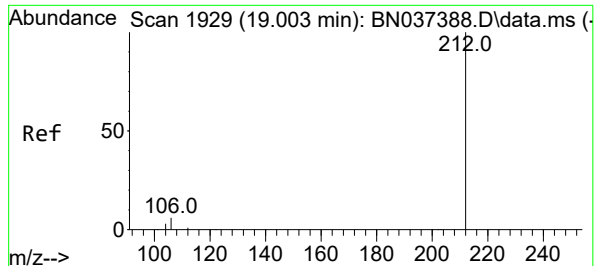
Tgt Ion:178 Resp: 2890
Ion Ratio Lower Upper
178 100
176 19.3 15.6 23.4
179 15.7 12.8 19.2



#26
Anthracene
Concen: 0.188 ng
RT: 17.096 min Scan# 1709
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:178 Resp: 2632
Ion Ratio Lower Upper
178 100
176 17.3 14.9 22.3
179 15.5 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.198 ng

RT: 19.008 min Scan# 1930

Delta R.T. 0.005 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

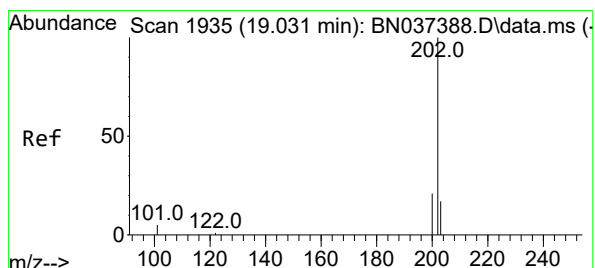
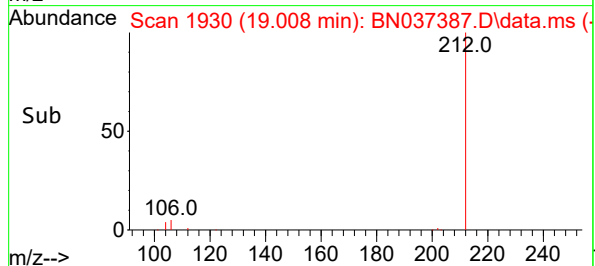
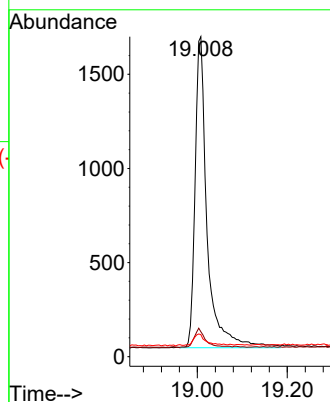
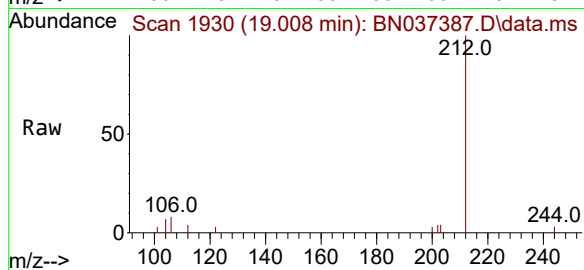
Tgt Ion:212 Resp: 3080

Ion Ratio Lower Upper

212 100

106 5.6 4.5 6.7

104 3.8 2.7 4.1



#28

Fluoranthene

Concen: 0.194 ng

RT: 19.035 min Scan# 1936

Delta R.T. 0.005 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

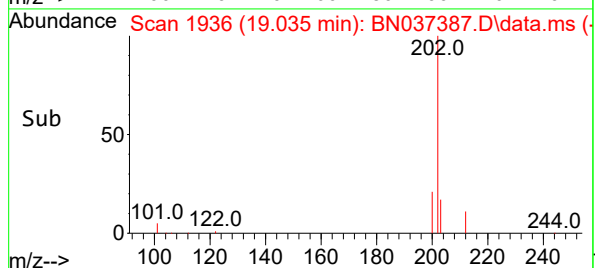
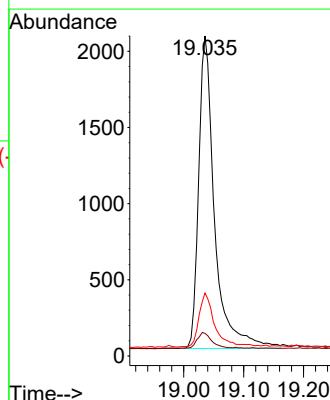
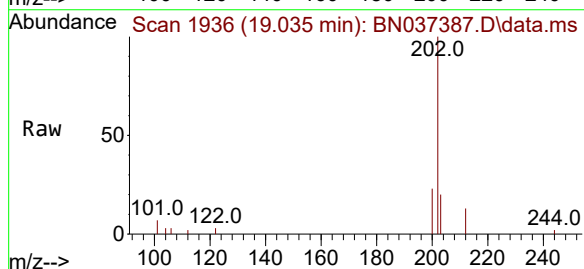
Tgt Ion:202 Resp: 3786

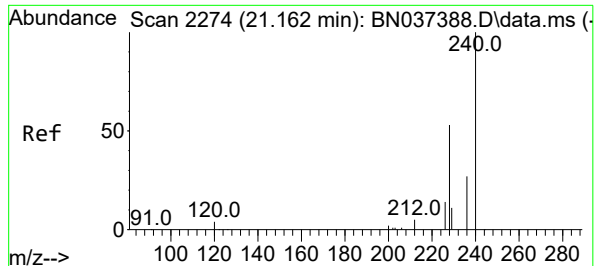
Ion Ratio Lower Upper

202 100

101 4.8 3.8 5.6

203 17.2 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

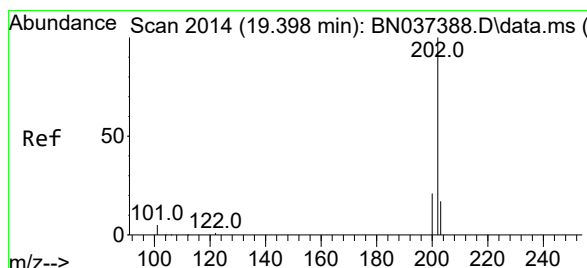
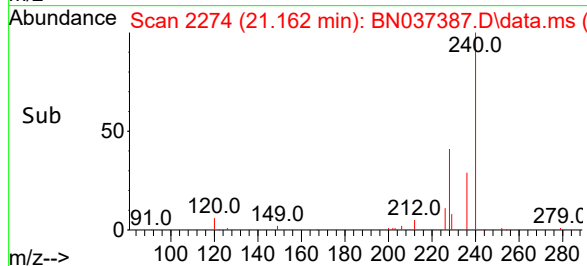
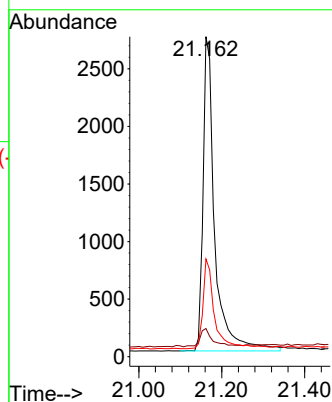
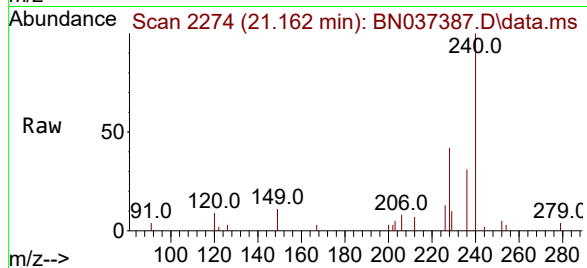
Tgt Ion:240 Resp: 5370

Ion Ratio Lower Upper

240 100

120 8.8 5.3 7.9#

236 30.5 22.7 34.1



#30

Pyrene

Concen: 0.191 ng

RT: 19.398 min Scan# 2014

Delta R.T. 0.000 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

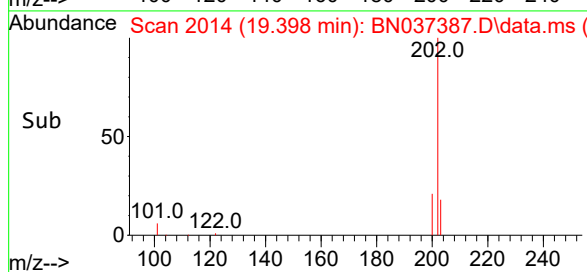
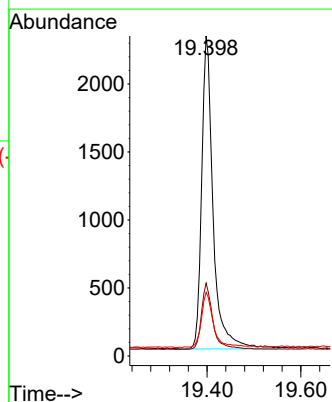
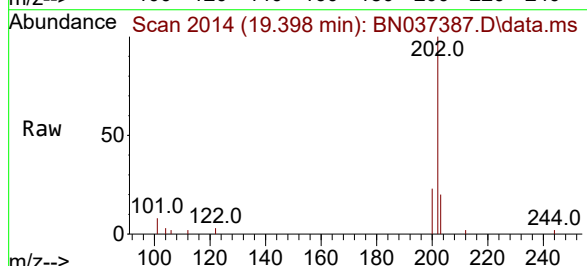
Tgt Ion:202 Resp: 3891

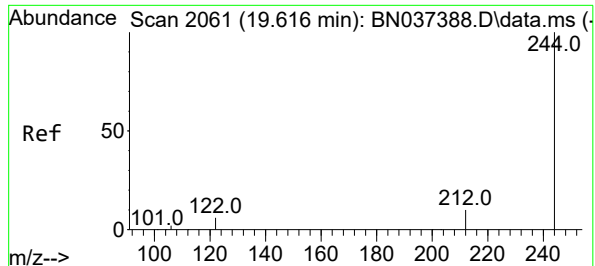
Ion Ratio Lower Upper

202 100

200 20.8 16.5 24.7

203 18.6 14.2 21.2

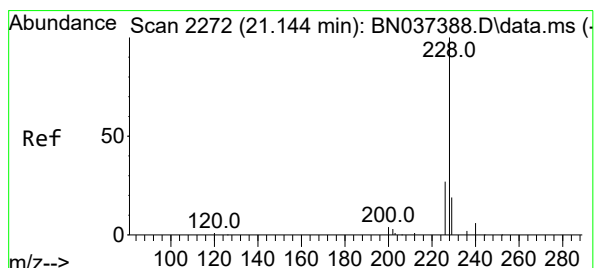
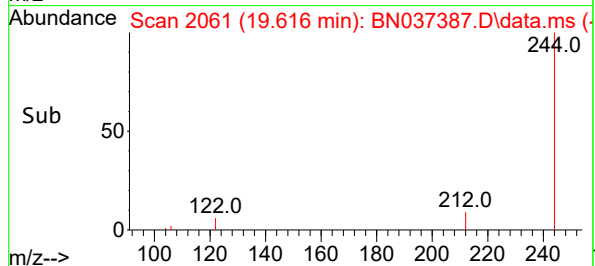
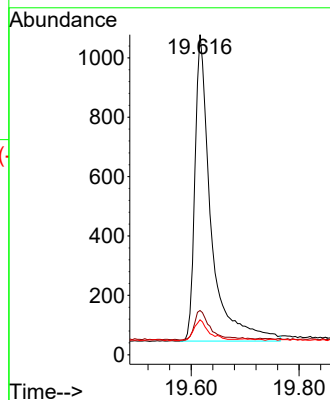
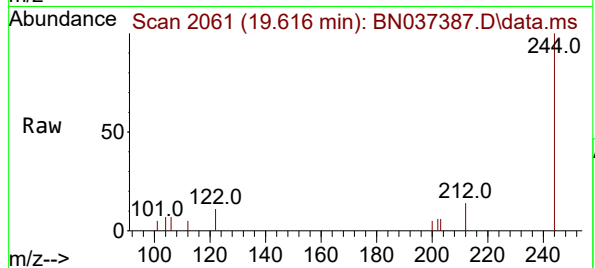




#31
Terphenyl-d14
Concen: 0.186 ng
RT: 19.616 min Scan# 2061
Delta R.T. 0.000 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

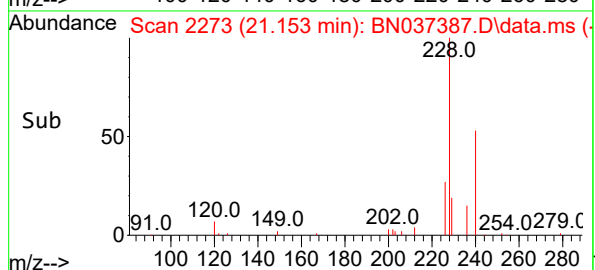
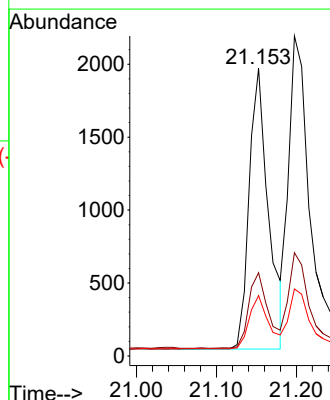
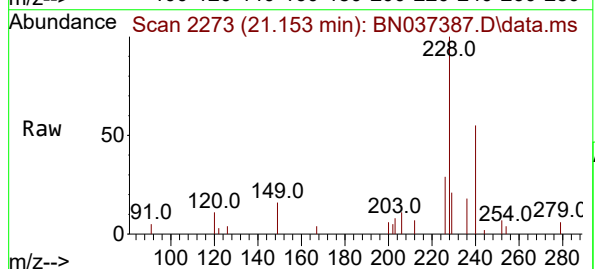
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

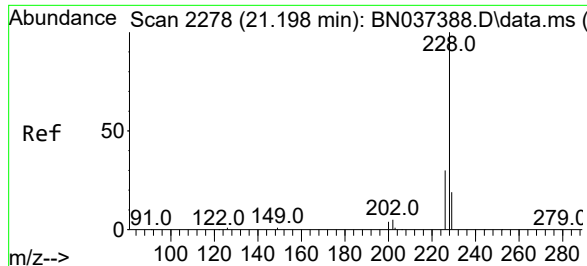
Tgt Ion:244 Resp: 2132
Ion Ratio Lower Upper
244 100
212 13.8 9.1 13.7#
122 10.9 6.3 9.5#



#32
Benzo(a)anthracene
Concen: 0.191 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.009 min
Lab File: BN037387.D
Acq: 26 Jun 2025 11:17

Tgt Ion:228 Resp: 3228
Ion Ratio Lower Upper
228 100
226 28.9 22.6 34.0
229 21.0 16.2 24.2





#33

Chrysene

Concen: 0.202 ng

RT: 21.198 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

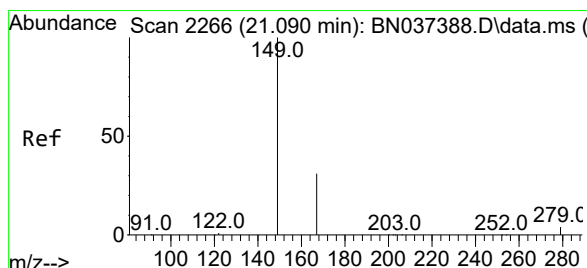
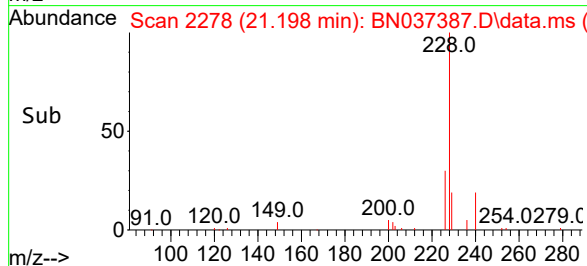
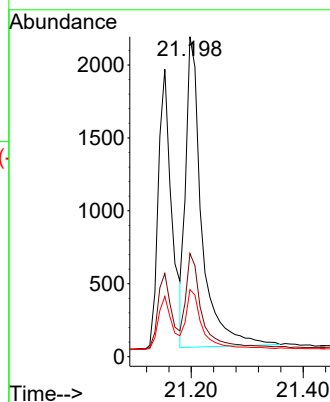
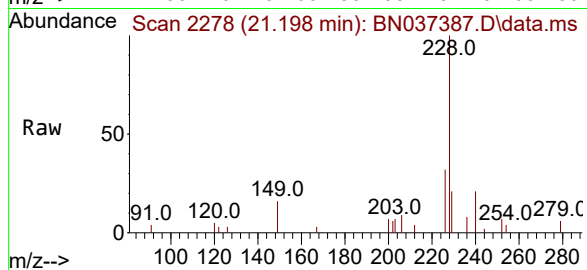
Tgt Ion:228 Resp: 4224

Ion Ratio Lower Upper

228 100

226 32.3 24.5 36.7

229 20.9 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.204 ng

RT: 21.090 min Scan# 2266

Delta R.T. 0.000 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

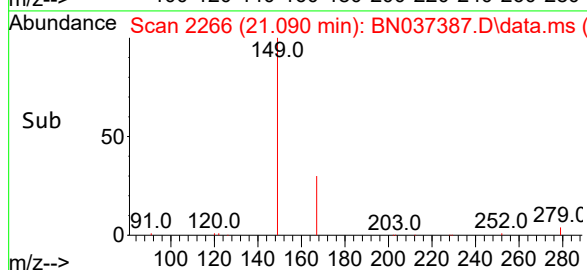
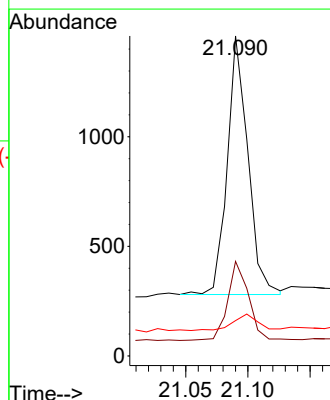
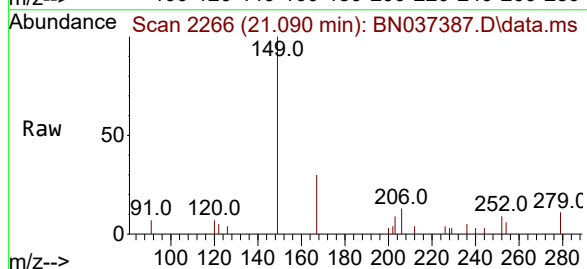
Tgt Ion:149 Resp: 1366

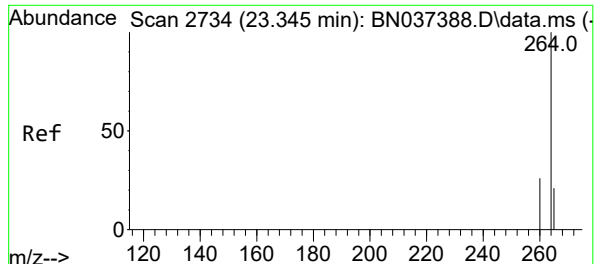
Ion Ratio Lower Upper

149 100

167 30.9 24.8 37.2

279 7.6 5.0 7.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.345 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037387.D

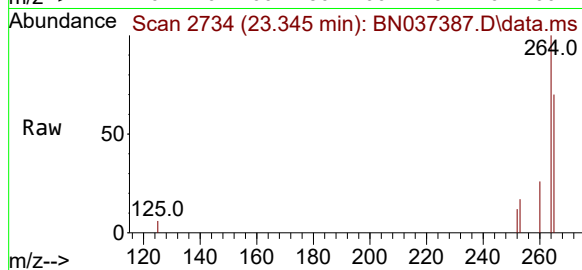
Acq: 26 Jun 2025 11:17

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.2



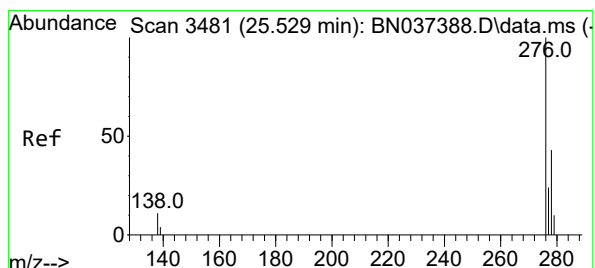
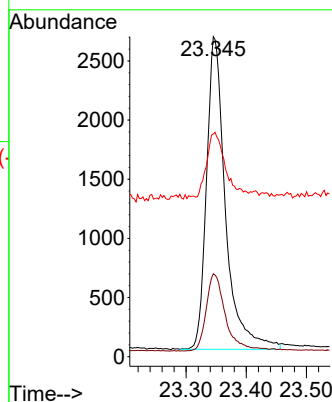
Tgt Ion:264 Resp: 5780

Ion Ratio Lower Upper

264 100

260 25.9 21.4 32.0

265 69.6 56.2 84.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.180 ng

RT: 25.532 min Scan# 3482

Delta R.T. 0.003 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

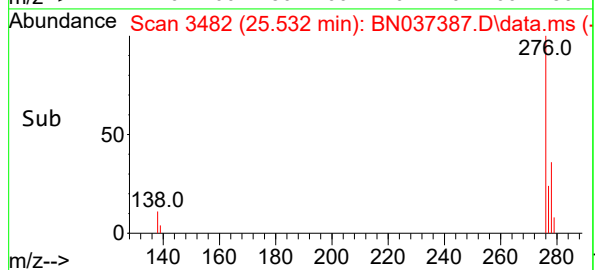
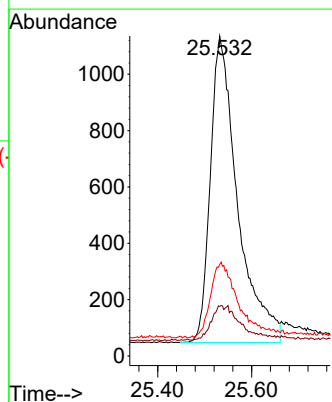
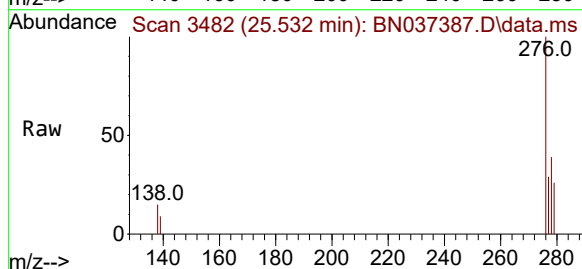
Tgt Ion:276 Resp: 4378

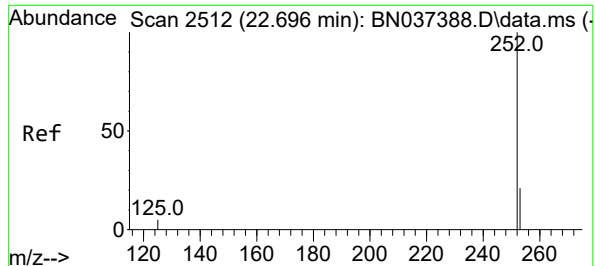
Ion Ratio Lower Upper

276 100

138 5.3 8.5 12.7#

277 25.4 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.185 ng

RT: 22.696 min Scan# 2512

Delta R.T. 0.000 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

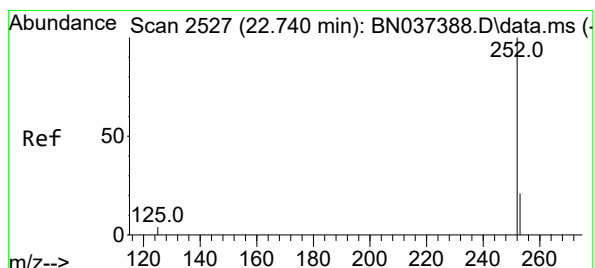
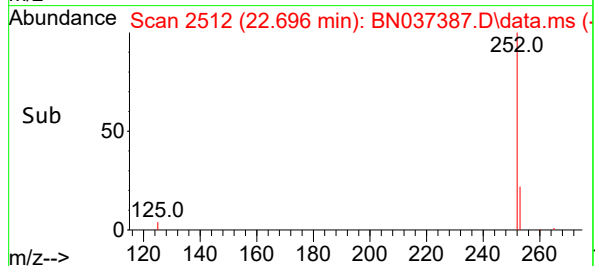
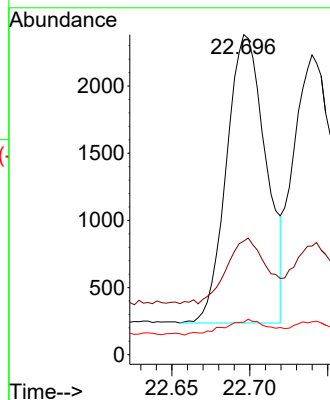
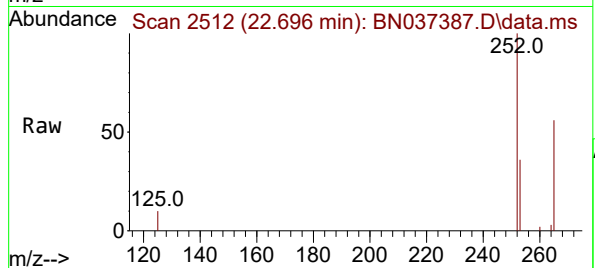
Tgt Ion:252 Resp: 3772

Ion Ratio Lower Upper

252 100

253 35.5 22.8 34.2#

125 10.2 6.2 9.4#



#38

Benzo(k)fluoranthene

Concen: 0.184 ng

RT: 22.740 min Scan# 2527

Delta R.T. 0.000 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

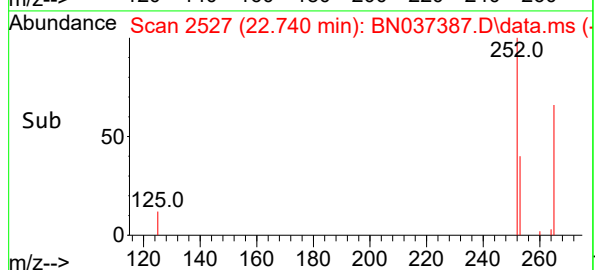
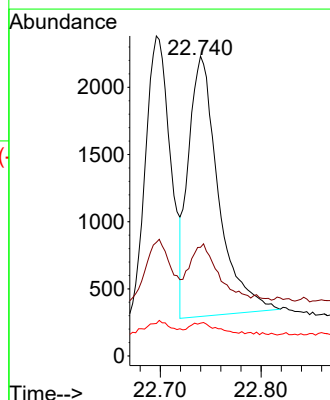
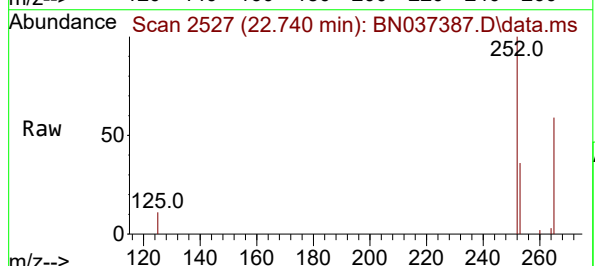
Tgt Ion:252 Resp: 4013

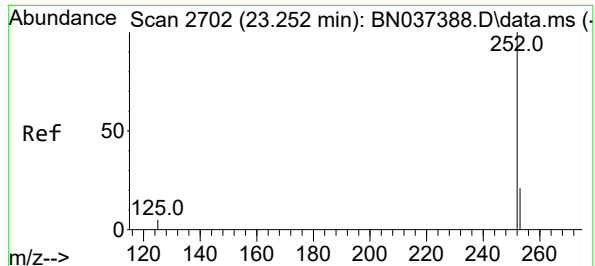
Ion Ratio Lower Upper

252 100

253 36.2 23.2 34.8#

125 11.0 6.0 9.0#





#39

Benzo(a)pyrene

Concen: 0.185 ng

RT: 23.254 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2

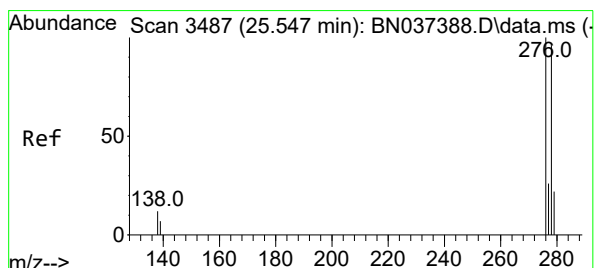
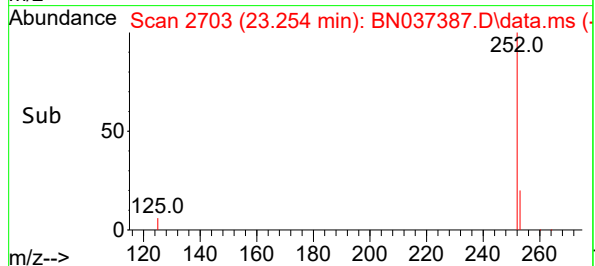
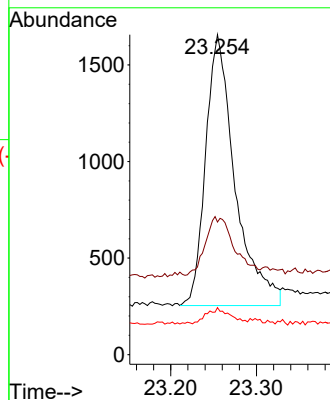
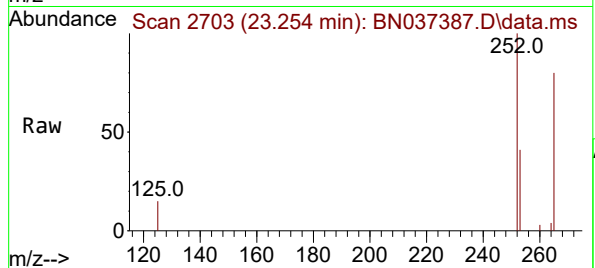
Tgt Ion:252 Resp: 3352

Ion Ratio Lower Upper

252 100

253 41.5 25.6 38.4#

125 14.7 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.176 ng

RT: 25.555 min Scan# 3490

Delta R.T. 0.009 min

Lab File: BN037387.D

Acq: 26 Jun 2025 11:17

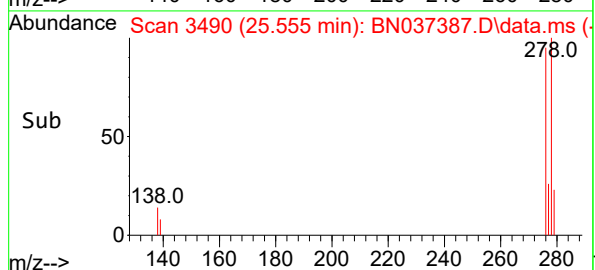
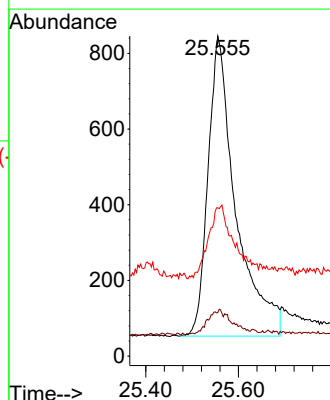
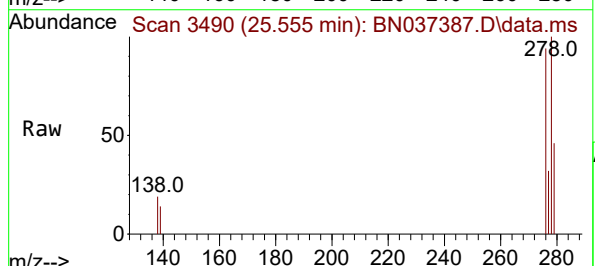
Tgt Ion:278 Resp: 3290

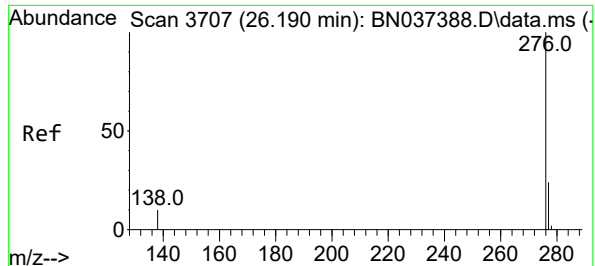
Ion Ratio Lower Upper

278 100

139 13.6 8.5 12.7#

279 46.3 27.5 41.3#





#41

Benzo(g,h,i)perylene

Concen: 0.190 ng

RT: 26.193 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037387.D

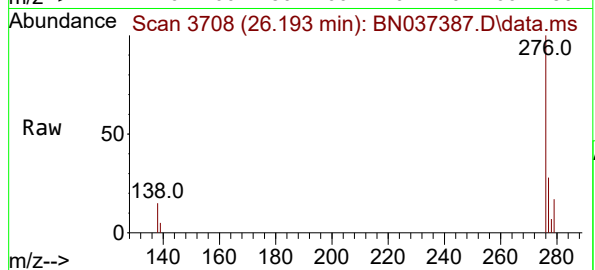
Acq: 26 Jun 2025 11:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.2



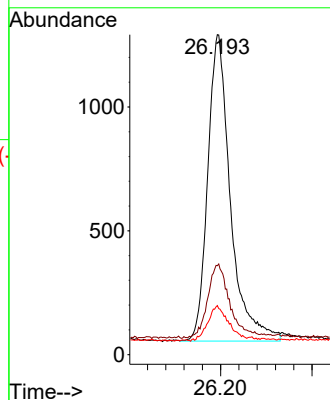
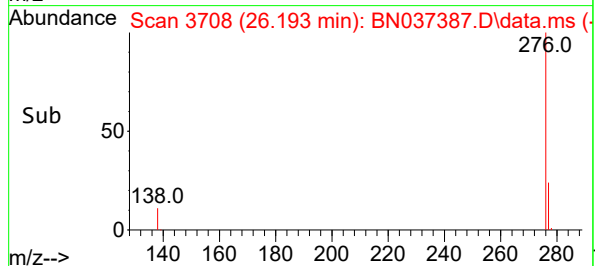
Tgt Ion:276 Resp: 4258

Ion Ratio Lower Upper

276 100

277 27.8 21.0 31.4

138 15.3 9.6 14.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
 Data File : BN037388.D
 Acq On : 26 Jun 2025 11:53
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Jun 26 14:43:58 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 14:40:13 2025
 Response via : Initial Calibration

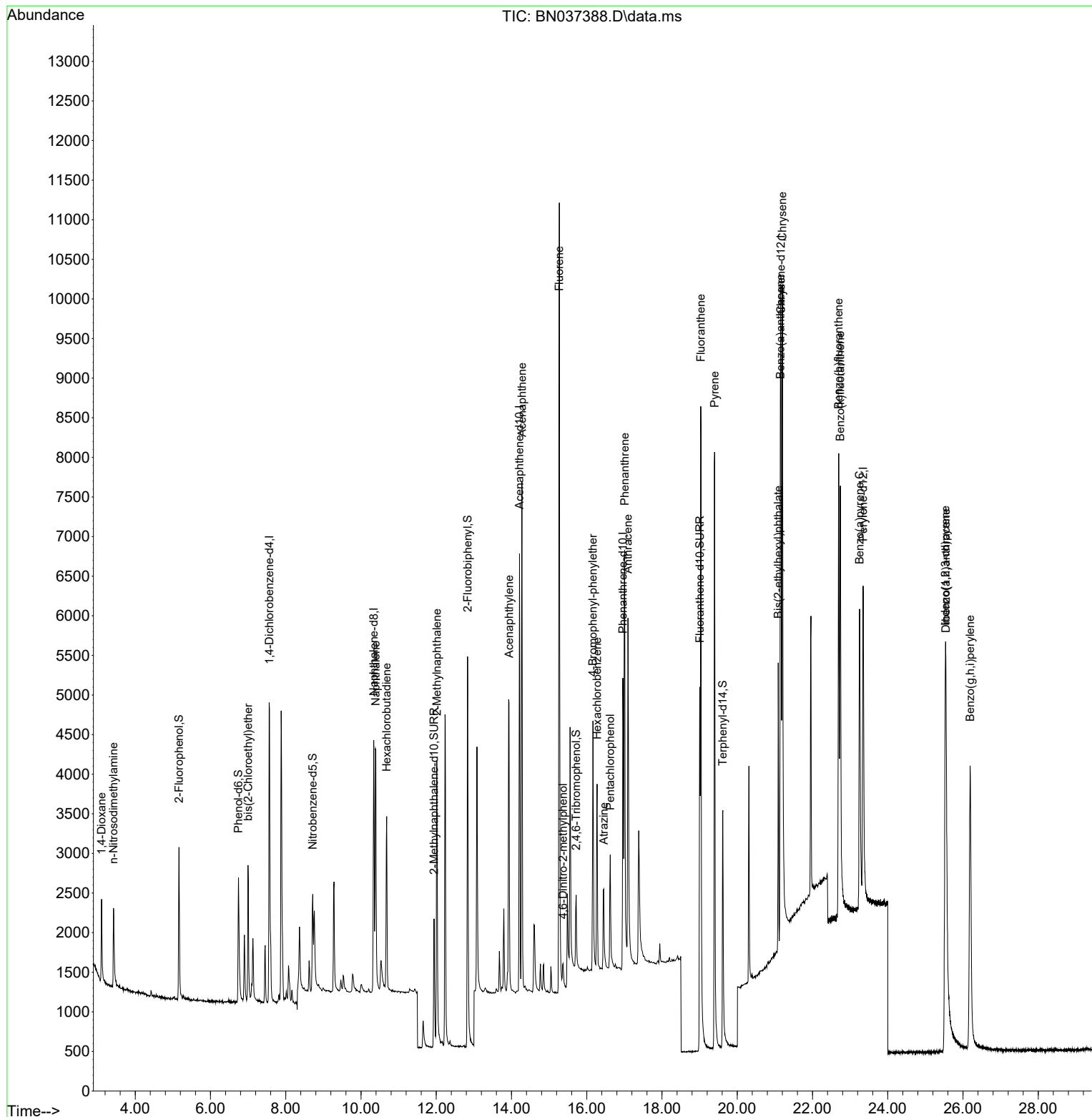
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	2117	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4565	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	3048	0.400	ng	0.00
19) Phenanthrene-d10	16.959	188	6284	0.400	ng	0.00
29) Chrysene-d12	21.162	240	5612	0.400	ng	0.00
35) Perylene-d12	23.345	264	5950	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	1703	0.417	ng	0.00
5) Phenol-d6	6.744	99	1720	0.407	ng	0.00
8) Nitrobenzene-d5	8.717	82	1419	0.386	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	2629	0.372	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	729	0.408	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	5253	0.399	ng	0.00
27) Fluoranthene-d10	19.003	212	6680	0.371	ng	0.00
31) Terphenyl-d14	19.616	244	4873	0.407	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.104	88	781	0.412	ng	100
3) n-Nitrosodimethylamine	3.422	42	792	0.399	ng	100
6) bis(2-Chloroethyl)ether	6.997	93	1521	0.404	ng	100
9) Naphthalene	10.394	128	4559	0.388	ng	100
10) Hexachlorobutadiene	10.682	225	1887	0.405	ng	# 100
12) 2-Methylnaphthalene	12.016	142	3122	0.386	ng	100
16) Acenaphthylene	13.935	152	4804	0.380	ng	100
17) Acenaphthene	14.277	154	3185	0.386	ng	100
18) Fluorene	15.272	166	4498	0.386	ng	100
20) 4,6-Dinitro-2-methylph...	15.368	198	535	0.331	ng	100
21) 4-Bromophenyl-phenylether	16.165	248	1694	0.382	ng	100
22) Hexachlorobenzene	16.276	284	1899	0.398	ng	100
23) Atrazine	16.450	200	1336	0.380	ng	100
24) Pentachlorophenol	16.624	266	973	0.378	ng	99
25) Phenanthrene	17.009	178	6787	0.383	ng	100
26) Anthracene	17.096	178	6087	0.374	ng	100
28) Fluoranthene	19.031	202	8557	0.378	ng	100
30) Pyrene	19.398	202	8607	0.405	ng	100
32) Benzo(a)anthracene	21.144	228	6549	0.371	ng	100
33) Chrysene	21.198	228	8883	0.407	ng	100
34) Bis(2-ethylhexyl)phtha...	21.090	149	2830	0.405	ng	100
36) Indeno(1,2,3-cd)pyrene	25.529	276	9382	0.374	ng	100
37) Benzo(b)fluoranthene	22.696	252	7840	0.374	ng	100
38) Benzo(k)fluoranthene	22.740	252	8696	0.388	ng	100
39) Benzo(a)pyrene	23.252	252	7038	0.377	ng	100
40) Dibenzo(a,h)anthracene	25.547	278	7205	0.374	ng	100
41) Benzo(g,h,i)perylene	26.190	276	8788	0.382	ng	100

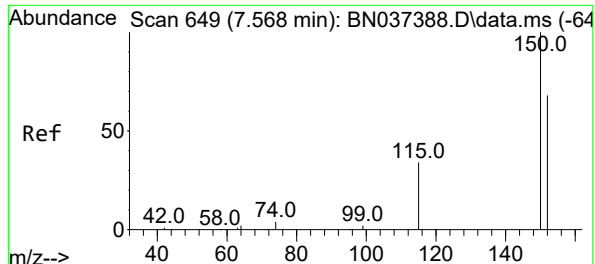
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037388.D
Acq On : 26 Jun 2025 11:53
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Jun 26 14:43:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 14:40:13 2025
Response via : Initial Calibration

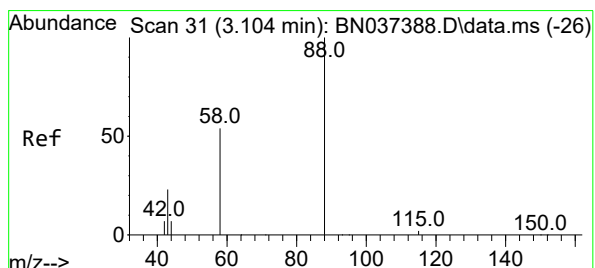
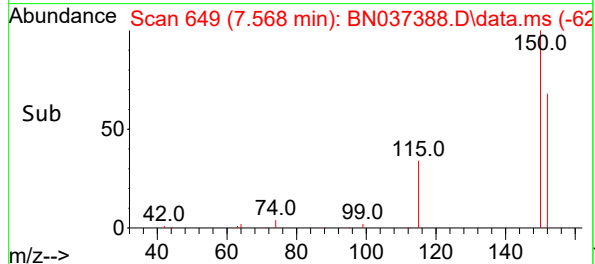
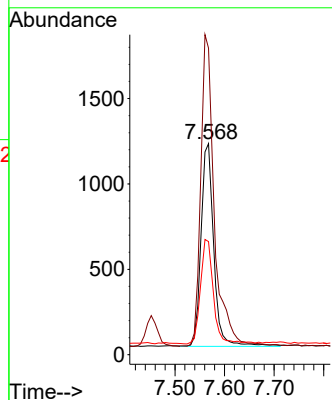
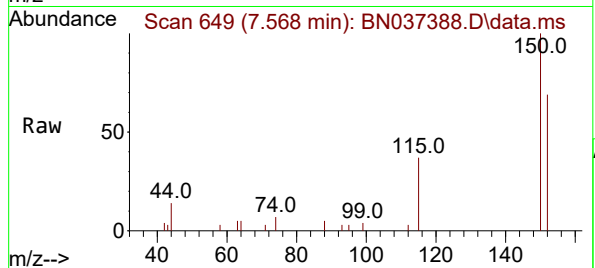




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

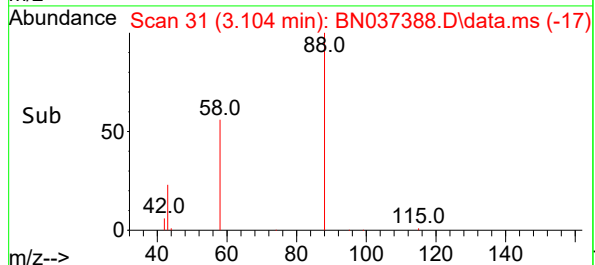
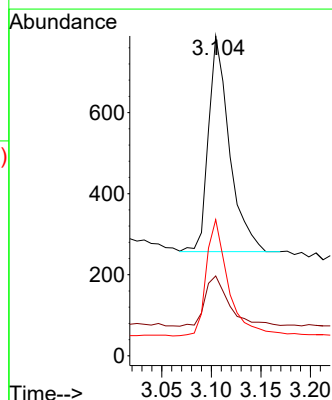
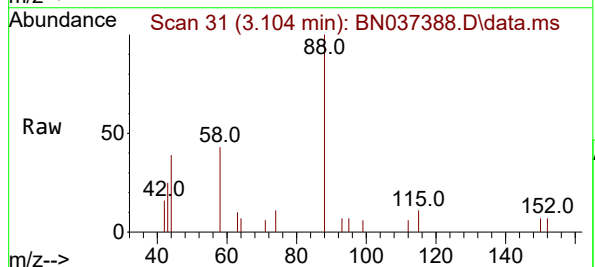
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

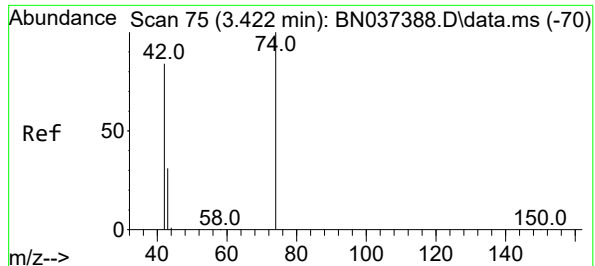
Tgt Ion:152 Resp: 2117
Ion Ratio Lower Upper
152 100
150 145.2 116.2 174.2
115 53.6 42.9 64.3



#2
1,4-Dioxane
Concen: 0.412 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion: 88 Resp: 781
Ion Ratio Lower Upper
88 100
43 27.0 21.6 32.4
58 57.4 45.9 68.9

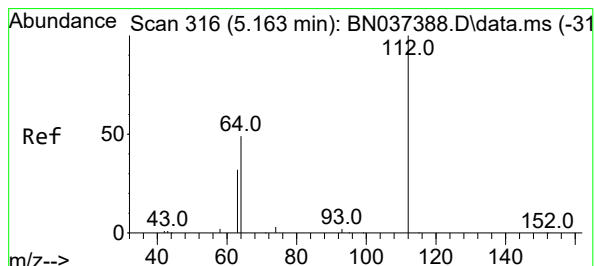
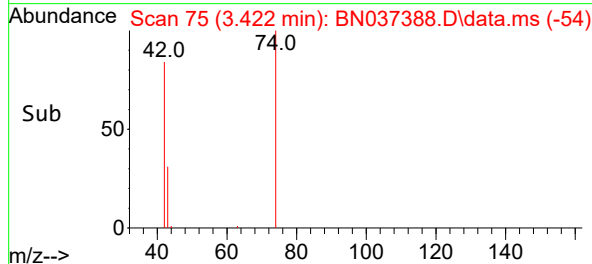
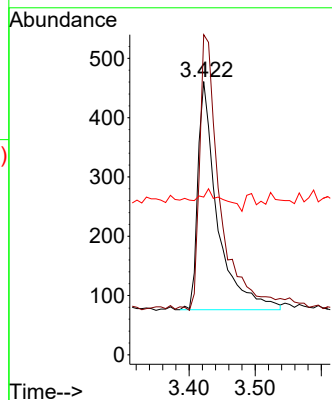
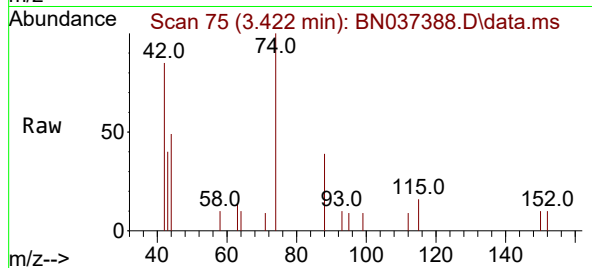




#3
n-Nitrosodimethylamine
Concen: 0.399 ng
RT: 3.422 min Scan# 75
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

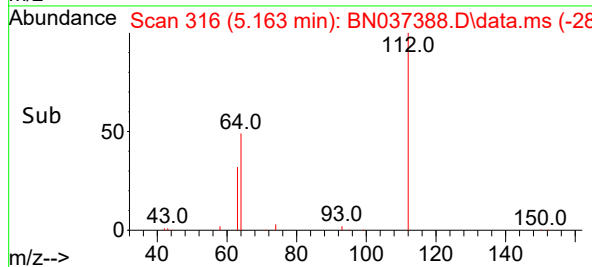
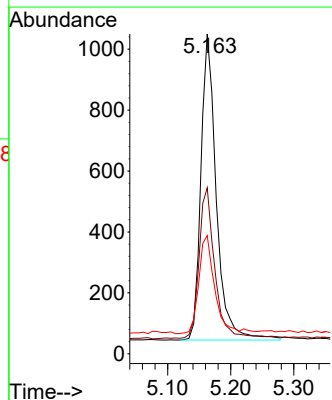
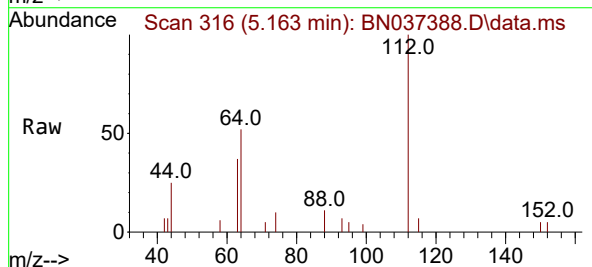
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

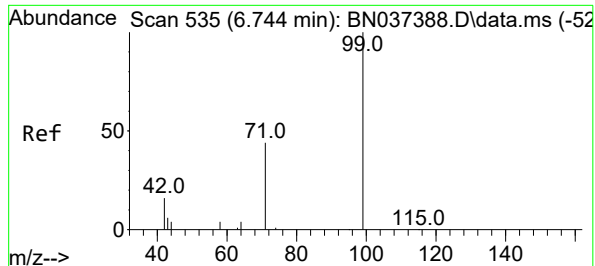
Tgt Ion: 42 Resp: 792
Ion Ratio Lower Upper
42 100
74 122.3 97.8 146.8
44 10.9 8.7 13.1



#4
2-Fluorophenol
Concen: 0.417 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion: 112 Resp: 1703
Ion Ratio Lower Upper
112 100
64 50.4 40.3 60.5
63 32.6 26.1 39.1

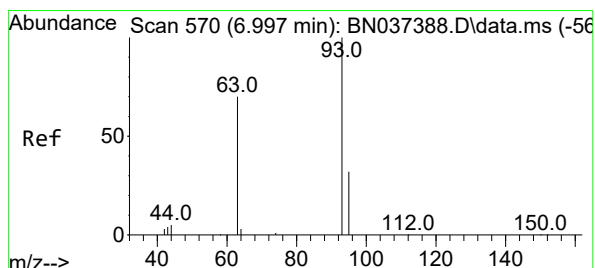
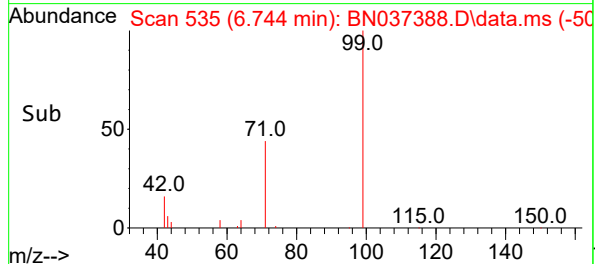
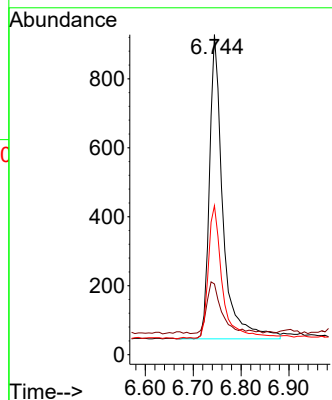
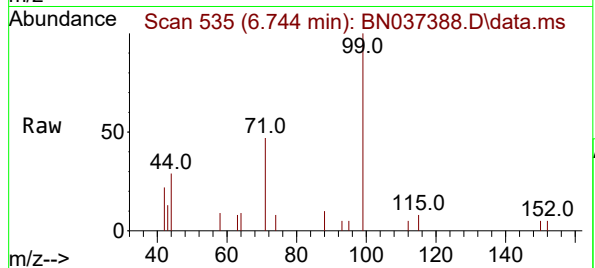




#5
Phenol-d6
Concen: 0.407 ng
RT: 6.744 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

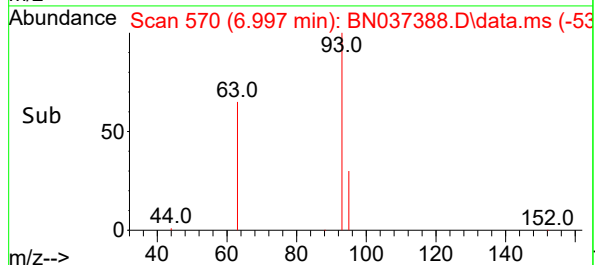
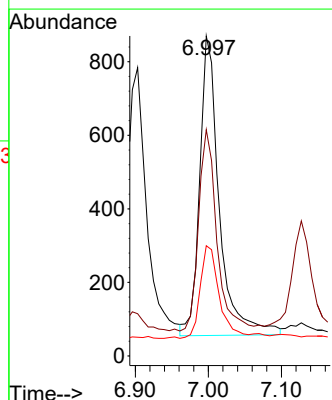
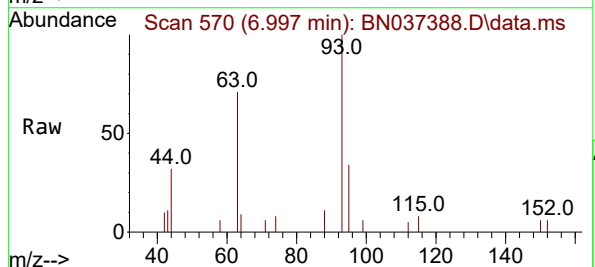
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

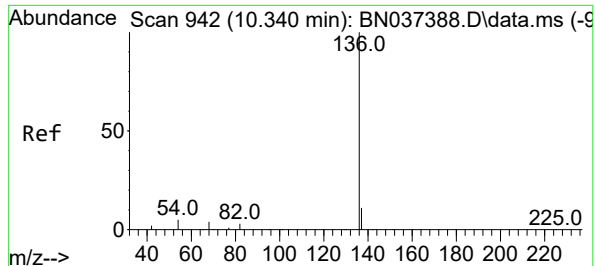
Tgt Ion: 99 Resp: 1720
Ion Ratio Lower Upper
99 100
42 19.2 15.6 23.4
71 44.8 35.8 53.8



#6
bis(2-Chloroethyl)ether
Concen: 0.404 ng
RT: 6.997 min Scan# 570
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion: 93 Resp: 1521
Ion Ratio Lower Upper
93 100
63 62.3 49.6 74.4
95 30.0 23.9 35.9

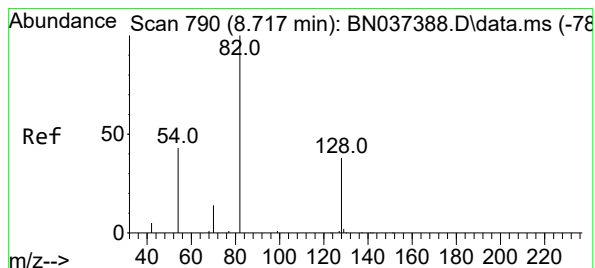
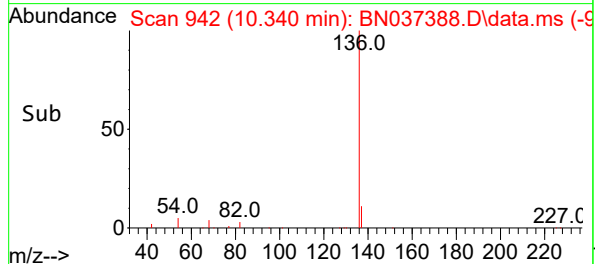
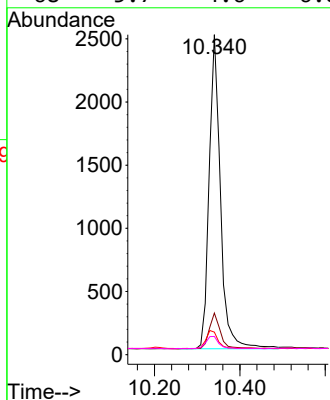
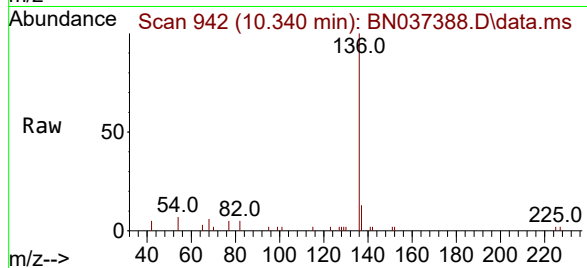




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

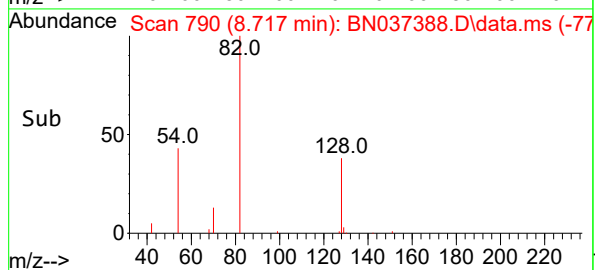
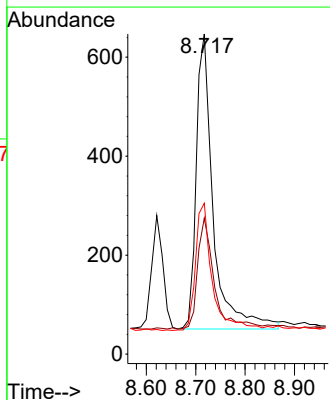
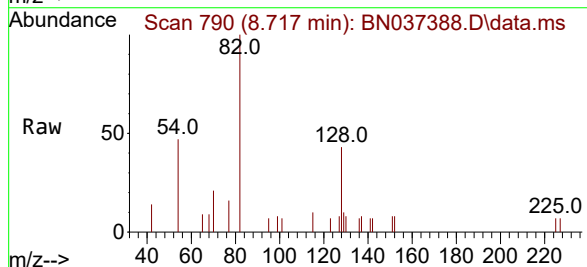
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

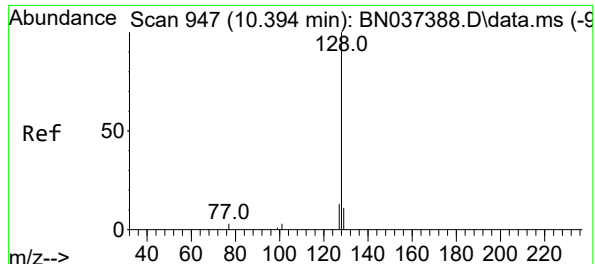
Tgt Ion:	136	Resp:	4565
Ion	Ratio	Lower	Upper
136	100		
137	13.0	10.4	15.6
54	7.0	5.6	8.4
68	5.7	4.6	6.8



#8
Nitrobenzene-d5
Concen: 0.386 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:	82	Resp:	1419
Ion	Ratio	Lower	Upper
82	100		
128	42.5	34.0	51.0
54	47.1	37.7	56.5

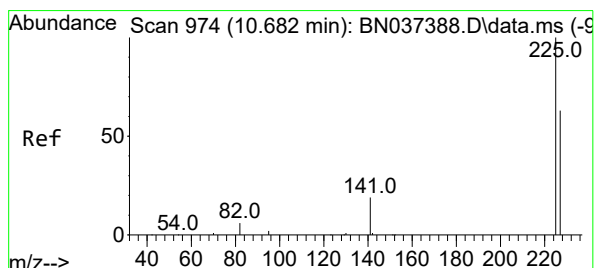
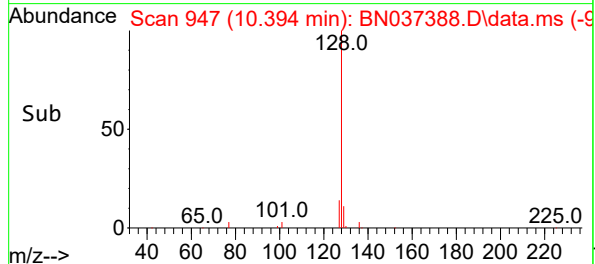
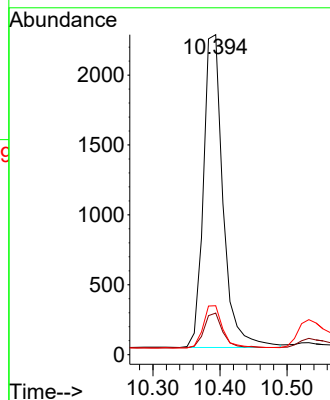
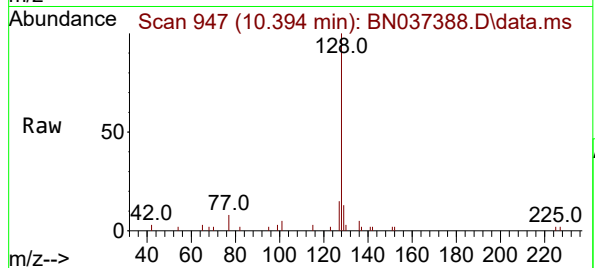




#9
Naphthalene
Concen: 0.388 ng
RT: 10.394 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

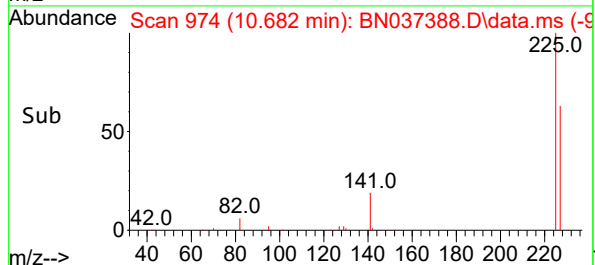
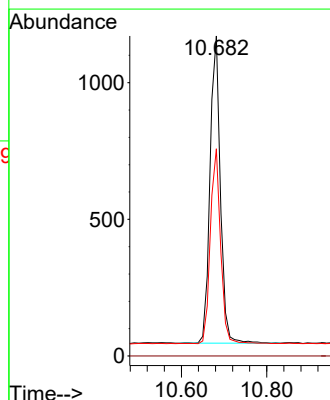
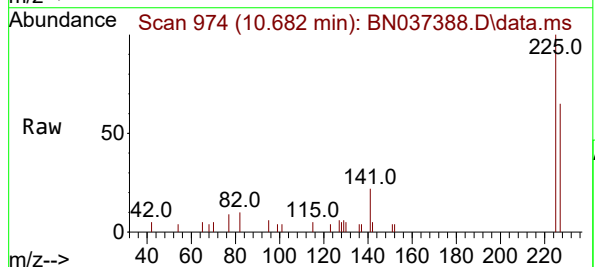
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

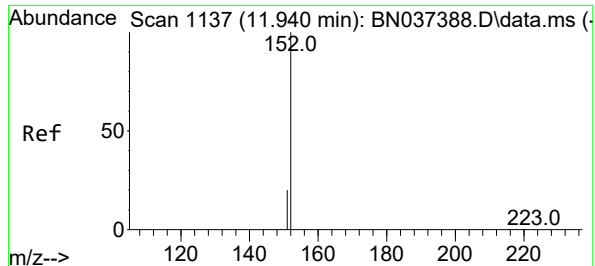
Tgt Ion	128	129	127
Resp:	4559		
Ion Ratio	100	13.0	15.3
Lower		10.4	12.2
Upper		15.6	18.4



#10
Hexachlorobutadiene
Concen: 0.405 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion	225	223	227
Resp:	1887		
Ion Ratio	100	0.0	62.4
Lower		0.0	49.9
Upper		0.0	74.9

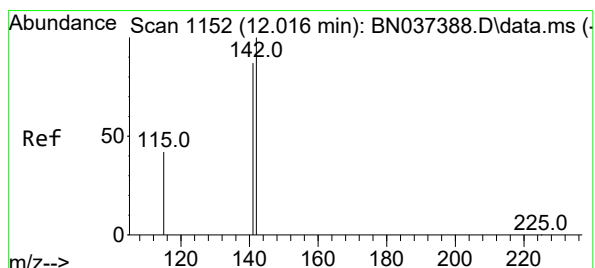
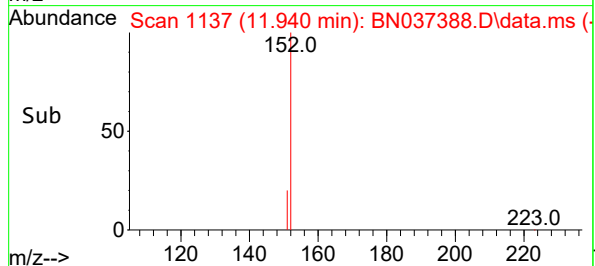
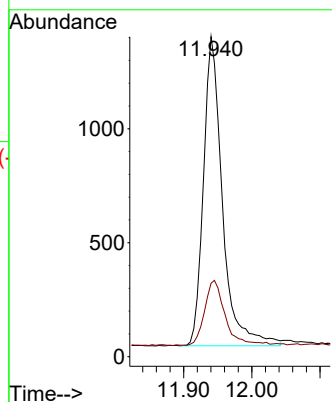
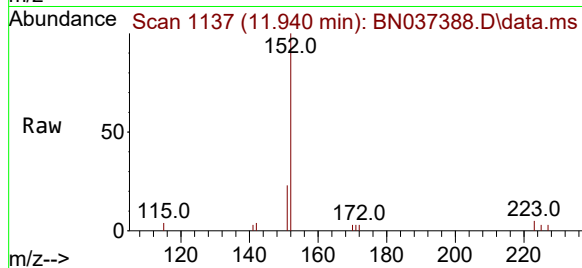




#11
2-Methylnaphthalene-d10
Concen: 0.372 ng
RT: 11.940 min Scan# 1137
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

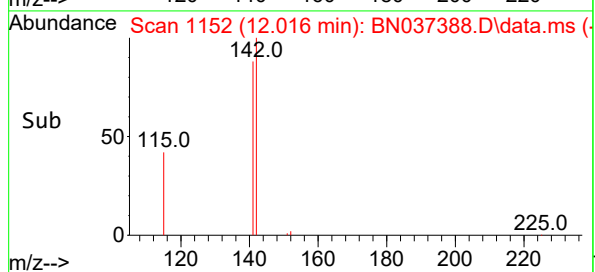
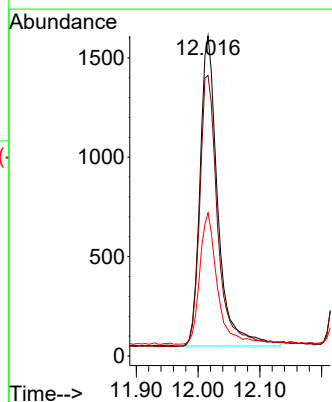
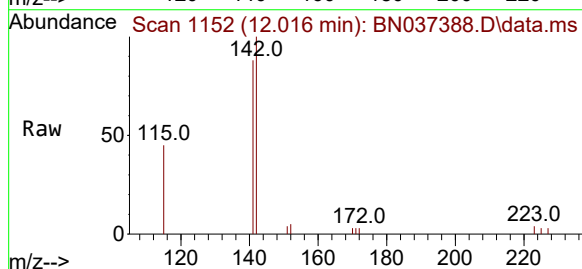
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

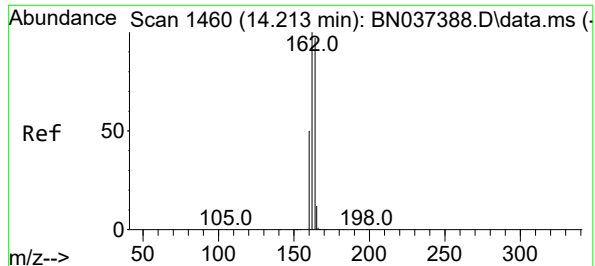
Tgt Ion:152 Resp: 2629
Ion Ratio Lower Upper
152 100
151 23.0 18.4 27.6



#12
2-Methylnaphthalene
Concen: 0.386 ng
RT: 12.016 min Scan# 1152
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:142 Resp: 3122
Ion Ratio Lower Upper
142 100
141 87.6 70.1 105.1
115 44.7 35.8 53.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.213 min Scan# 1460

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

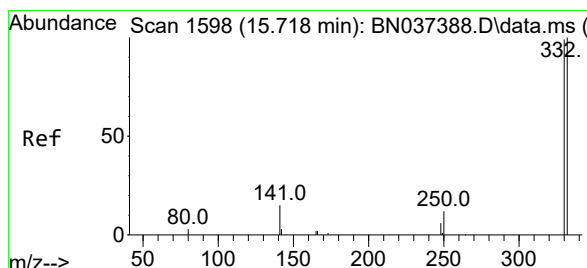
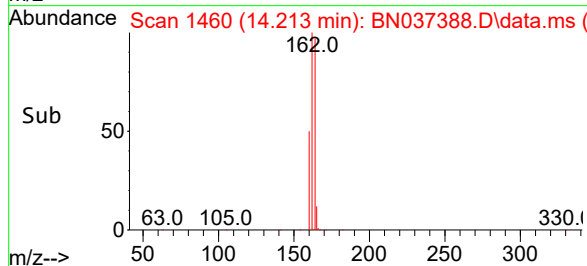
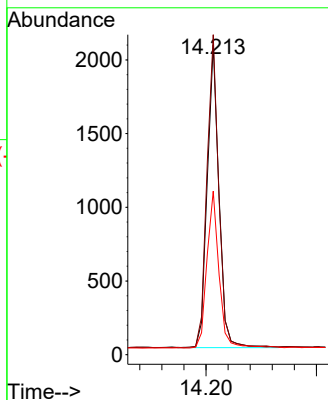
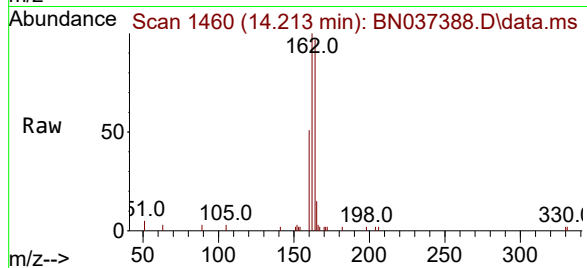
Tgt Ion:164 Resp: 3048

Ion Ratio Lower Upper

164 100

162 103.2 82.6 123.8

160 52.7 42.2 63.2



#14

2,4,6-Tribromophenol

Concen: 0.408 ng

RT: 15.718 min Scan# 1598

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

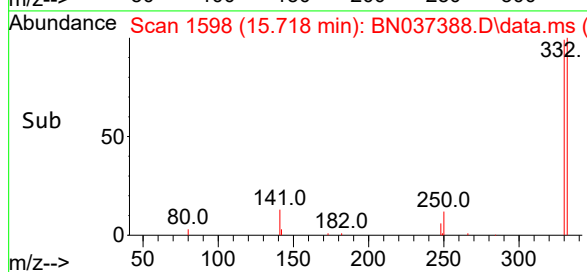
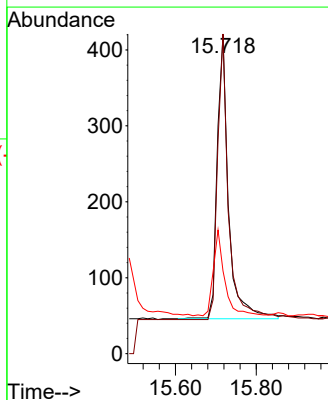
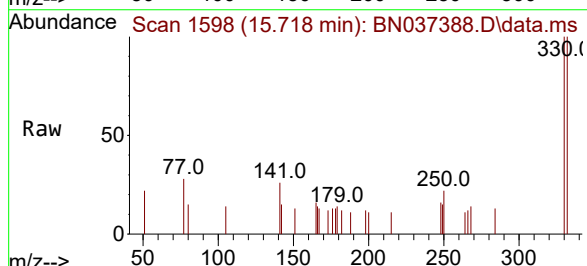
Tgt Ion:330 Resp: 729

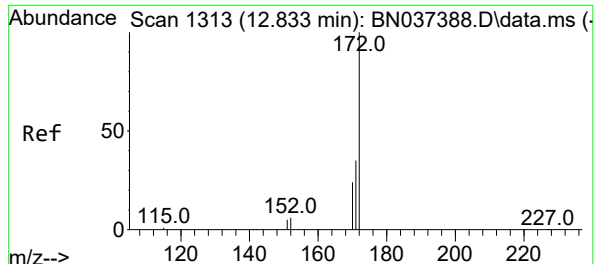
Ion Ratio Lower Upper

330 100

332 97.3 77.8 116.8

141 30.0 24.0 36.0





#15

2-Fluorobiphenyl

Concen: 0.399 ng

RT: 12.833 min Scan# 1313

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

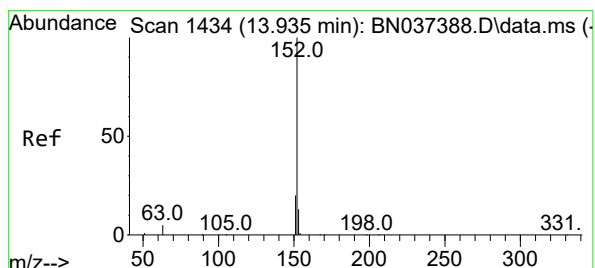
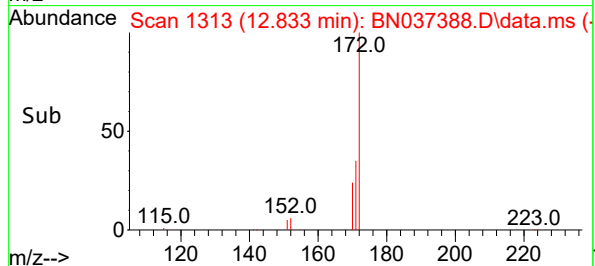
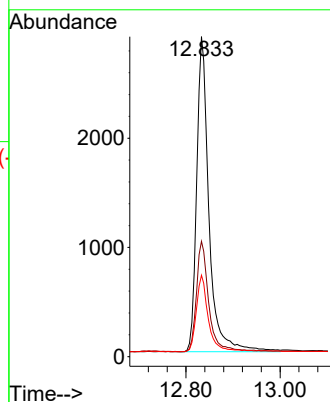
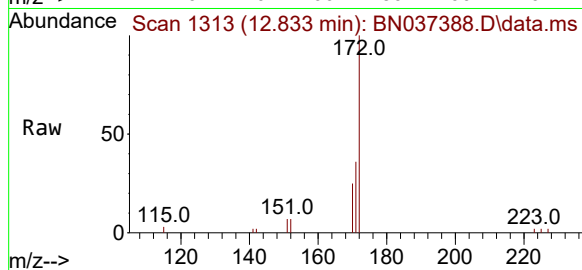
Tgt Ion:172 Resp: 5253

Ion Ratio Lower Upper

172 100

171 36.0 28.8 43.2

170 25.4 20.3 30.5



#16

Acenaphthylene

Concen: 0.380 ng

RT: 13.935 min Scan# 1434

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

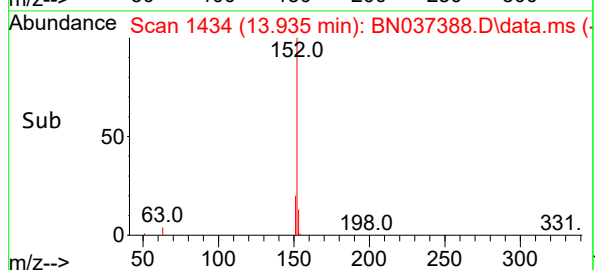
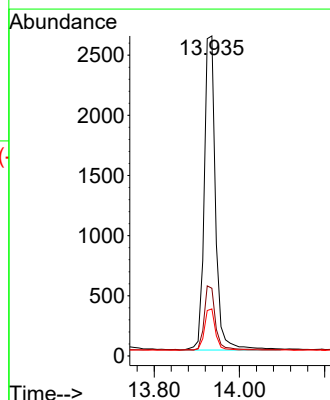
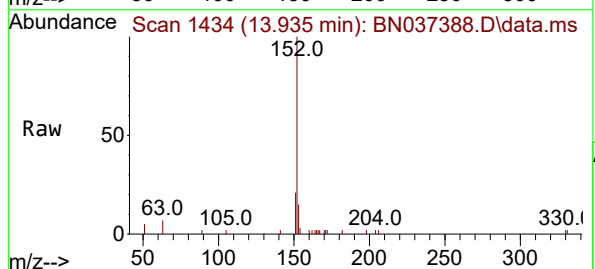
Tgt Ion:152 Resp: 4804

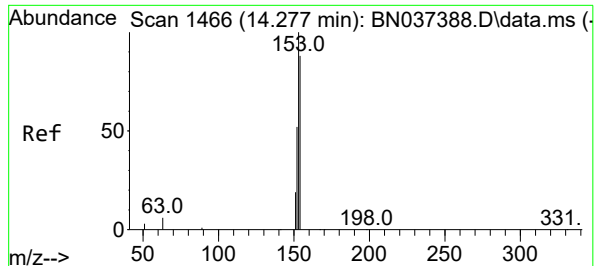
Ion Ratio Lower Upper

152 100

151 19.7 15.8 23.6

153 12.9 10.3 15.5





#17

Acenaphthene

Concen: 0.386 ng

RT: 14.277 min Scan# 1466

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

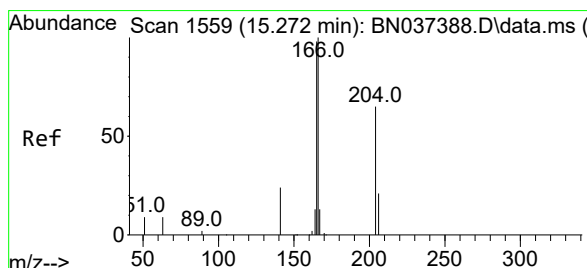
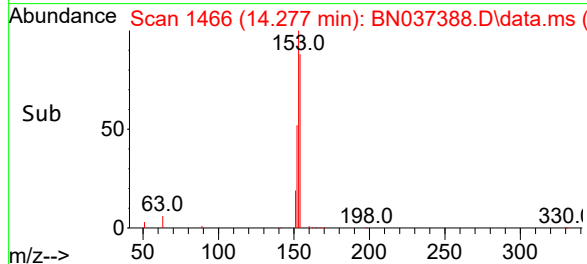
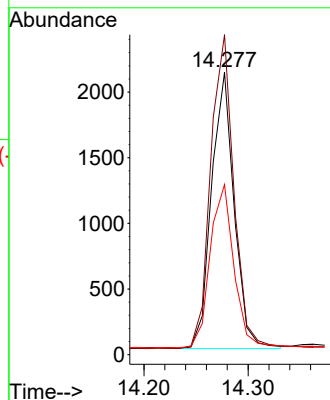
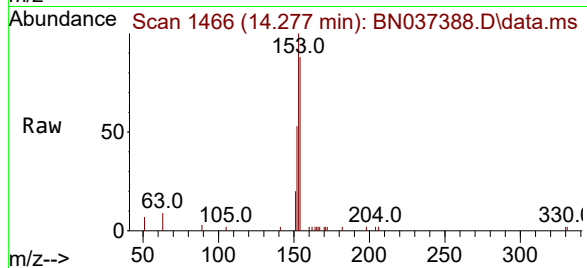
Tgt Ion:154 Resp: 3185

Ion Ratio Lower Upper

154 100

153 118.2 94.6 141.8

152 62.7 50.2 75.2



#18

Fluorene

Concen: 0.386 ng

RT: 15.272 min Scan# 1559

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

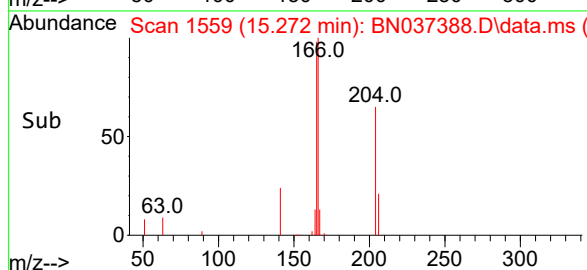
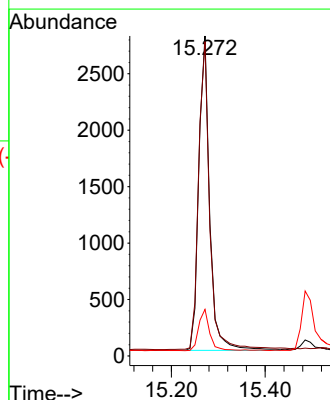
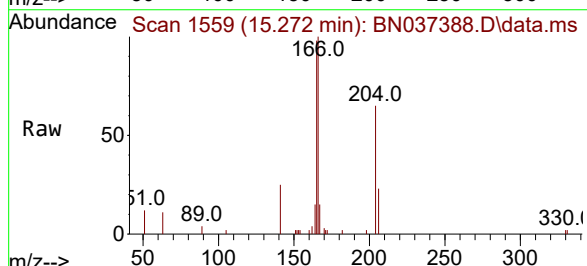
Tgt Ion:166 Resp: 4498

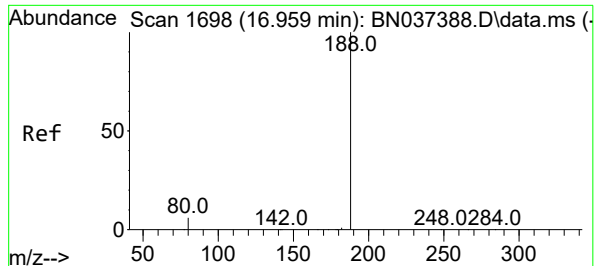
Ion Ratio Lower Upper

166 100

165 99.3 79.4 119.2

167 13.2 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.959 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

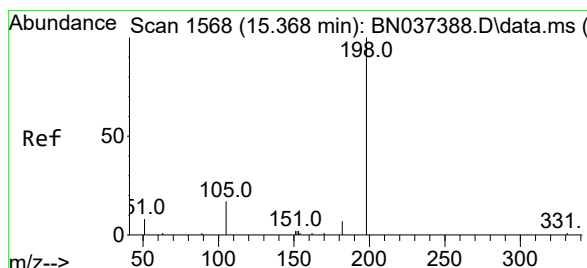
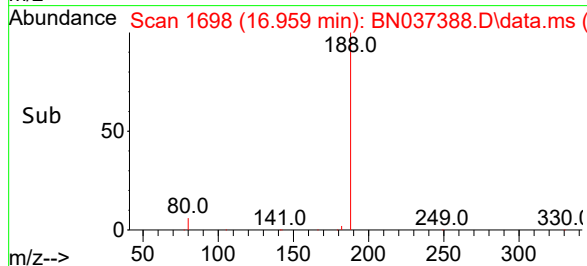
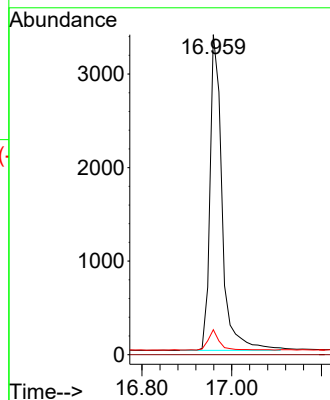
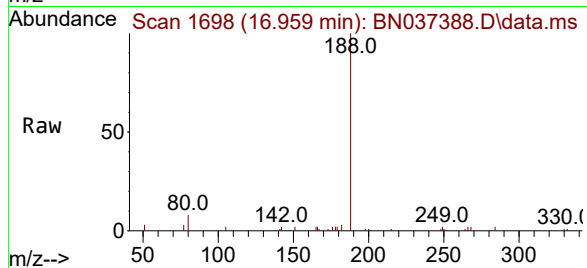
Tgt Ion:188 Resp: 6284

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.8 6.2 9.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.331 ng

RT: 15.368 min Scan# 1568

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

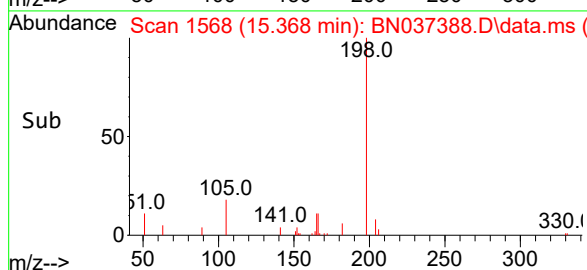
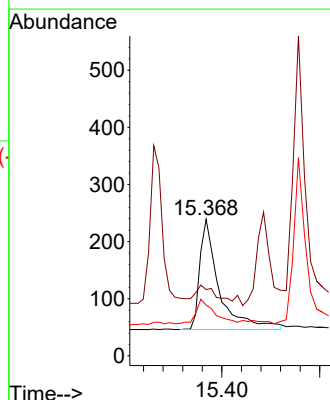
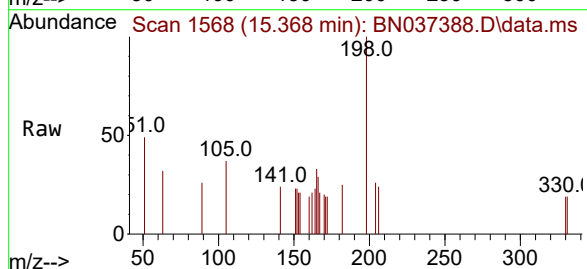
Tgt Ion:198 Resp: 535

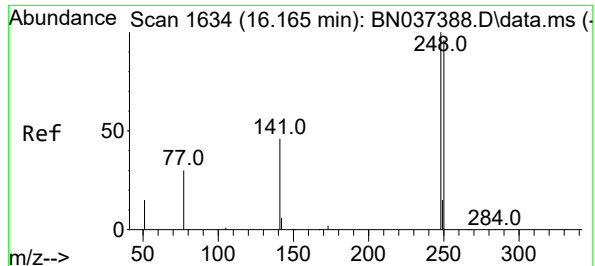
Ion Ratio Lower Upper

198 100

51 48.5 38.8 58.2

105 37.2 29.8 44.6

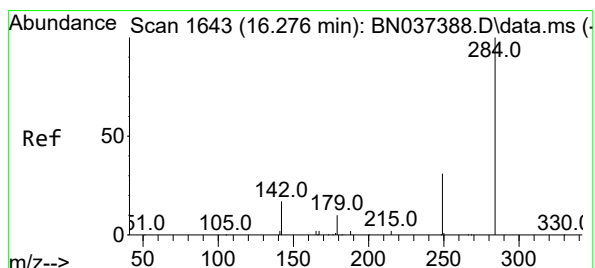
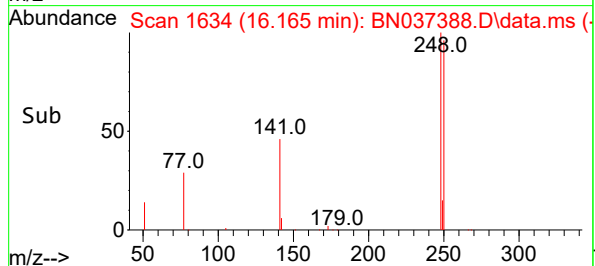
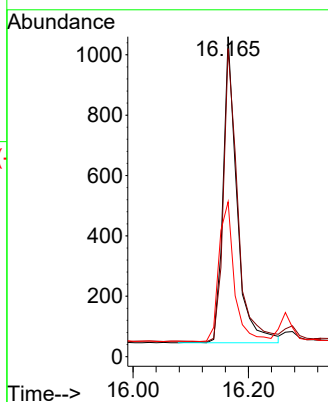
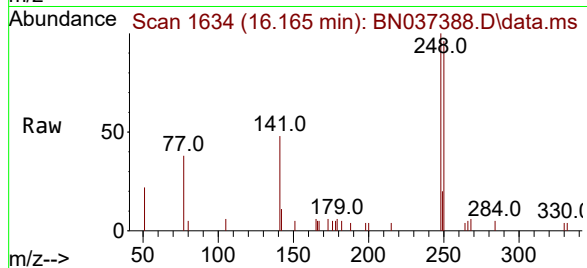




#21
4-Bromophenyl-phenylether
Concen: 0.382 ng
RT: 16.165 min Scan# 1634
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

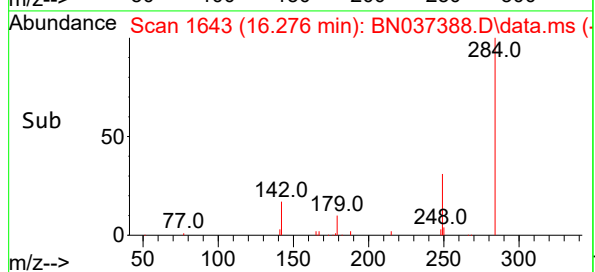
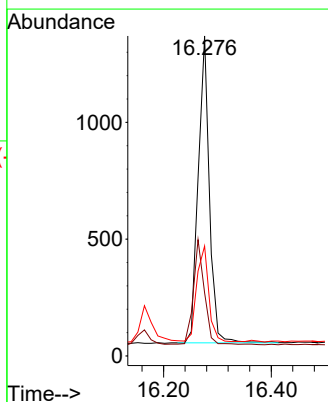
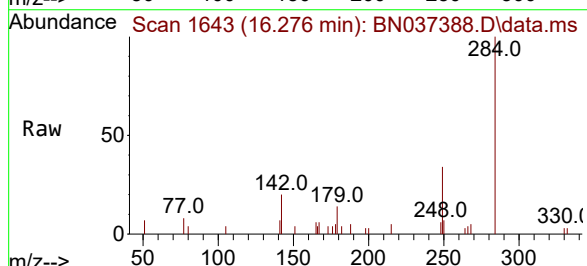
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

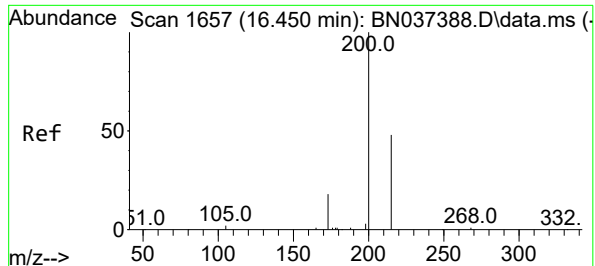
Tgt Ion	Ratio	Lower	Upper
248	100		
250	96.2	77.0	115.4
141	48.4	38.7	58.1



#22
Hexachlorobenzene
Concen: 0.398 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.0	27.2	40.8
249	33.4	26.7	40.1





#23

Atrazine

Concen: 0.380 ng

RT: 16.450 min Scan# 1657

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

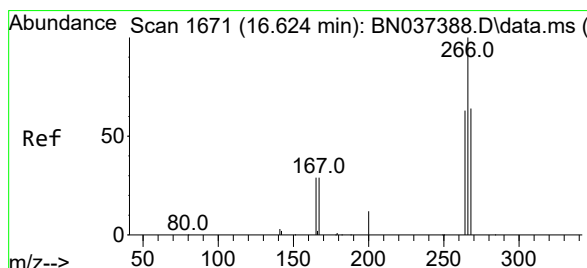
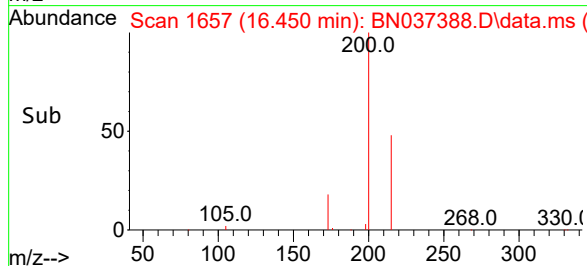
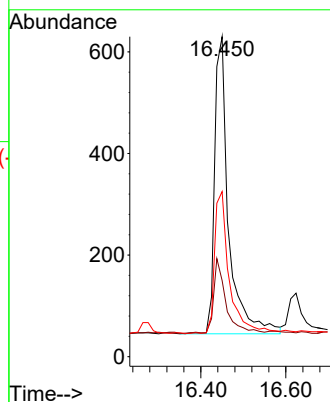
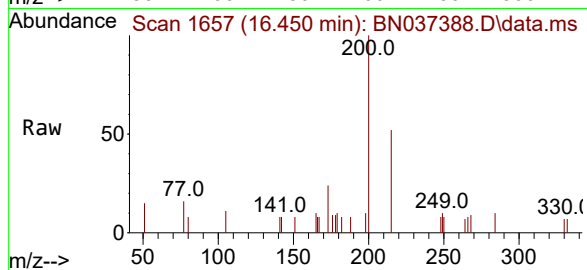
Tgt Ion:200 Resp: 1336

Ion Ratio Lower Upper

200 100

173 23.8 19.0 28.6

215 51.6 41.3 61.9



#24

Pentachlorophenol

Concen: 0.378 ng

RT: 16.624 min Scan# 1671

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

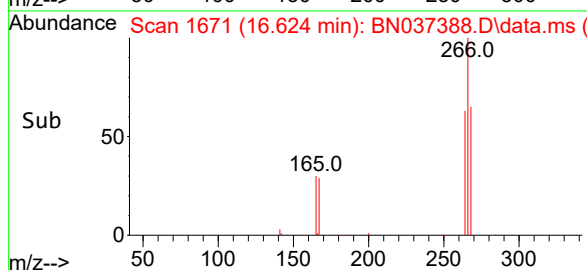
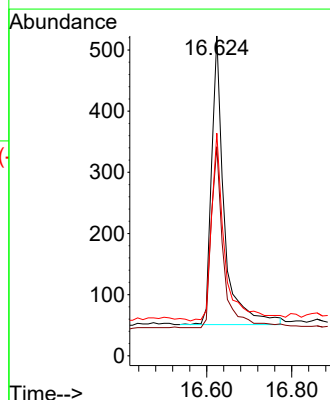
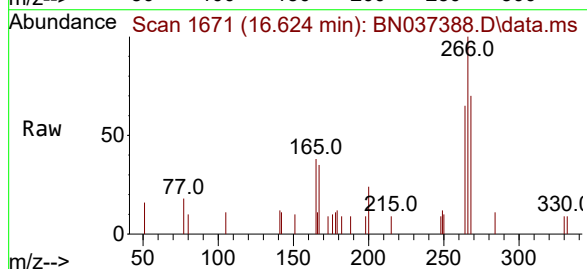
Tgt Ion:266 Resp: 973

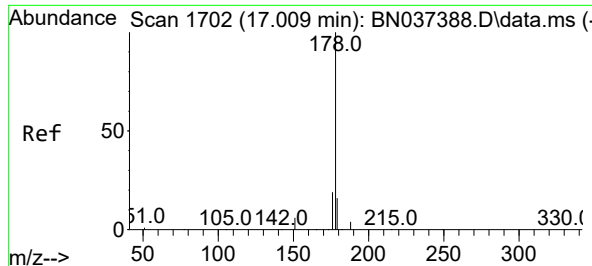
Ion Ratio Lower Upper

266 100

264 60.4 49.2 73.8

268 67.3 54.2 81.4

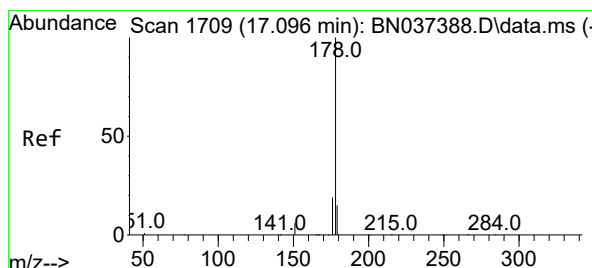
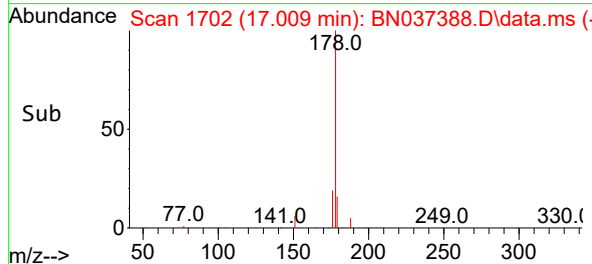
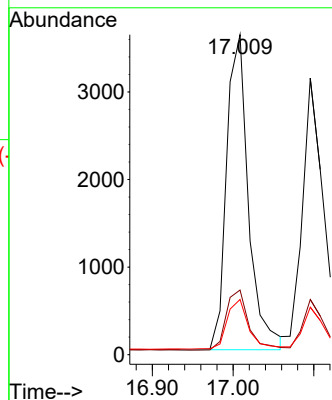
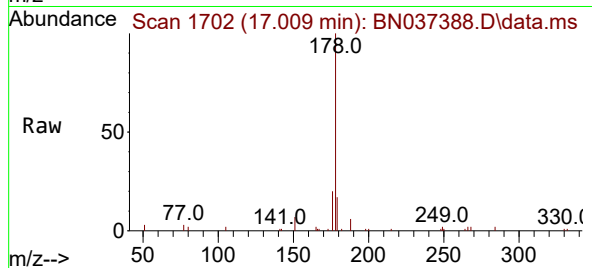




#25
Phenanthrene
Concen: 0.383 ng
RT: 17.009 min Scan# 1702
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

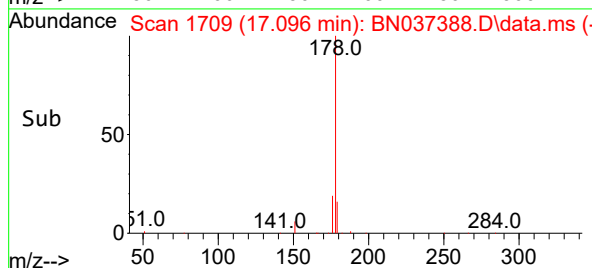
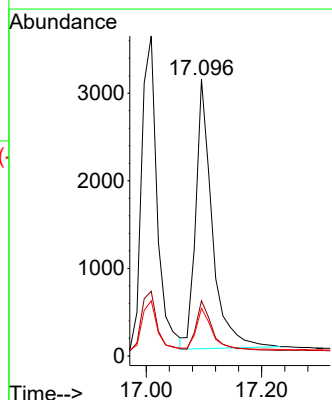
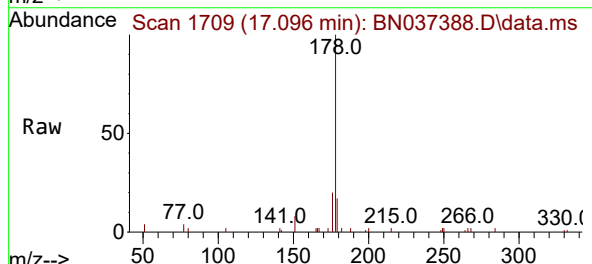
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

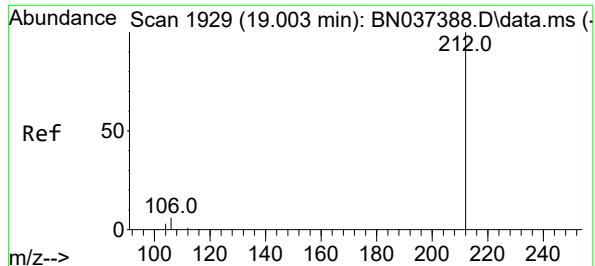
Tgt Ion:178 Resp: 6787
Ion Ratio Lower Upper
178 100
176 19.5 15.6 23.4
179 16.0 12.8 19.2



#26
Anthracene
Concen: 0.374 ng
RT: 17.096 min Scan# 1709
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion:178 Resp: 6087
Ion Ratio Lower Upper
178 100
176 18.6 14.9 22.3
179 15.5 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.371 ng

RT: 19.003 min Scan# 1929

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

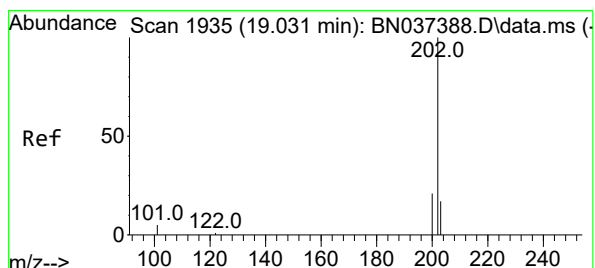
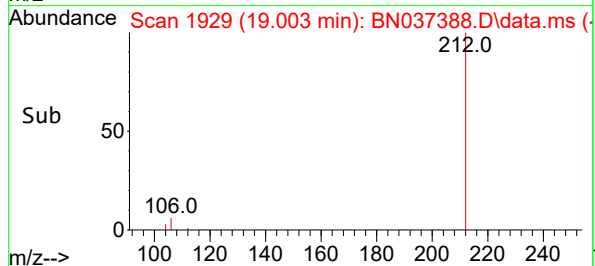
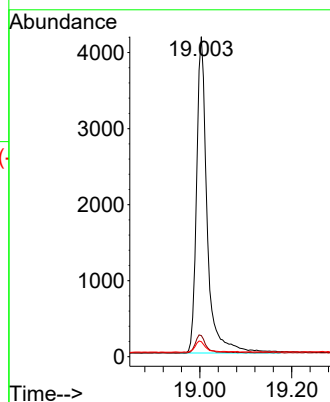
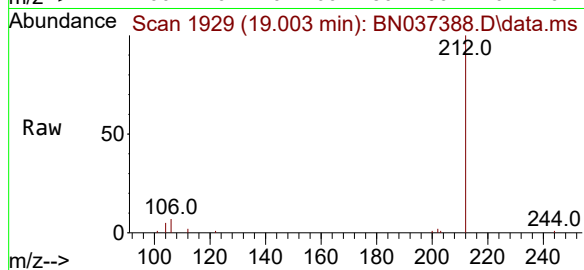
Tgt Ion:212 Resp: 6680

Ion Ratio Lower Upper

212 100

106 5.6 4.5 6.7

104 3.4 2.7 4.1



#28

Fluoranthene

Concen: 0.378 ng

RT: 19.031 min Scan# 1935

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

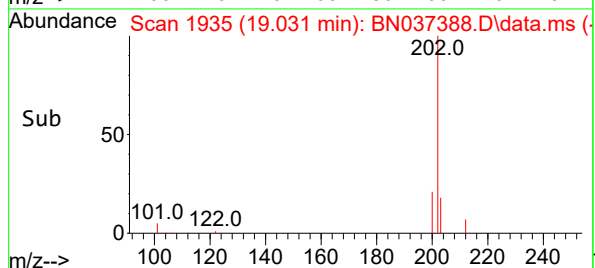
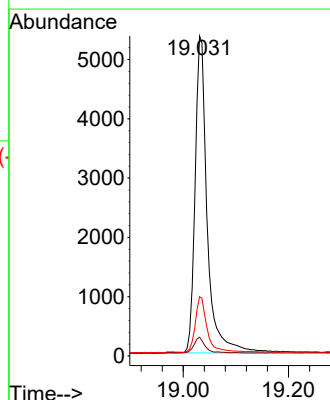
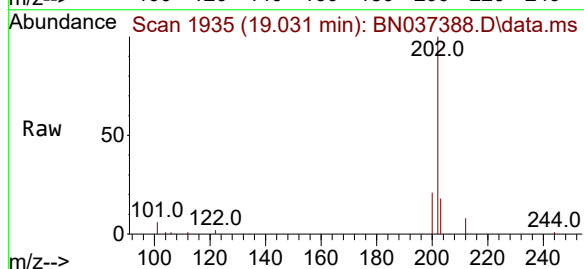
Tgt Ion:202 Resp: 8557

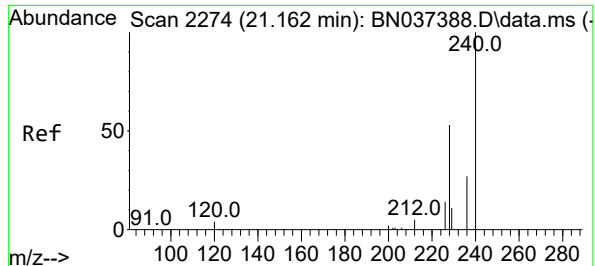
Ion Ratio Lower Upper

202 100

101 4.7 3.8 5.6

203 16.9 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

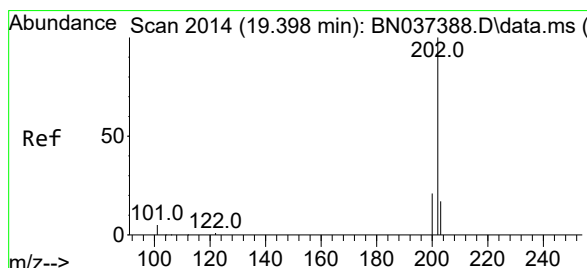
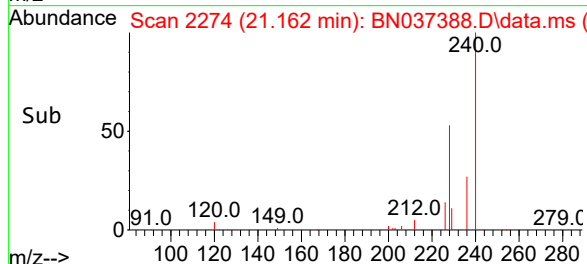
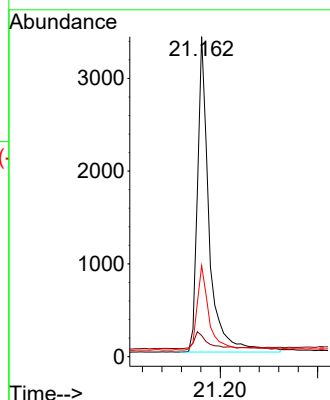
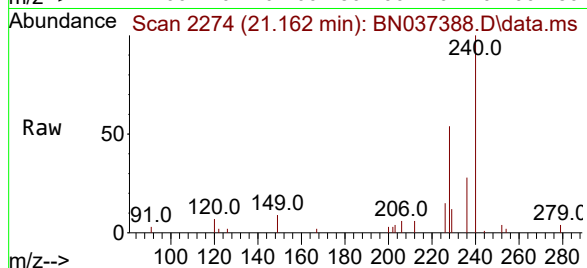
Tgt Ion:240 Resp: 5612

Ion Ratio Lower Upper

240 100

120 6.6 5.3 7.9

236 28.4 22.7 34.1



#30

Pyrene

Concen: 0.405 ng

RT: 19.398 min Scan# 2014

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

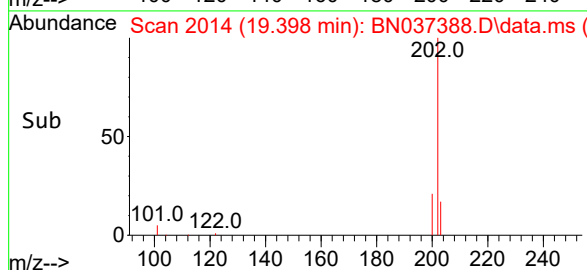
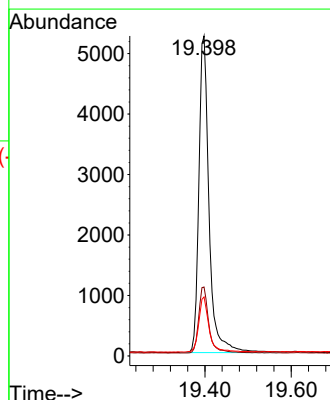
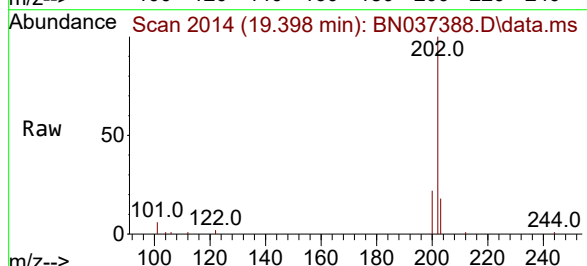
Tgt Ion:202 Resp: 8607

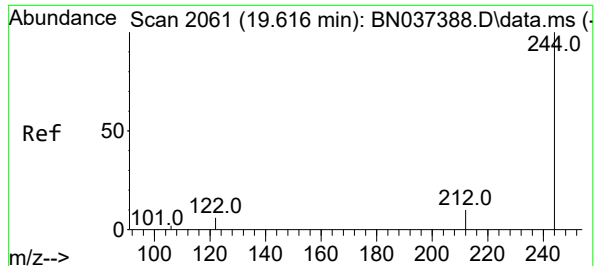
Ion Ratio Lower Upper

202 100

200 20.6 16.5 24.7

203 17.7 14.2 21.2

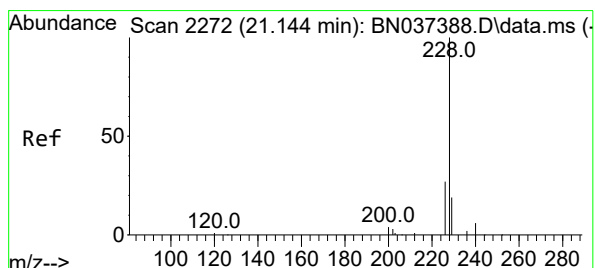
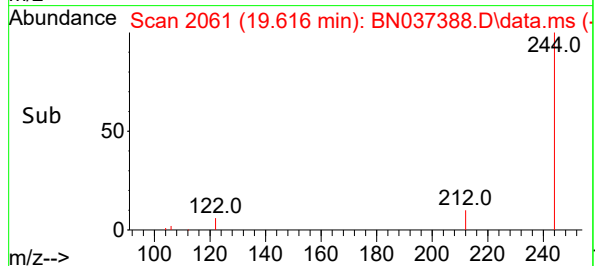
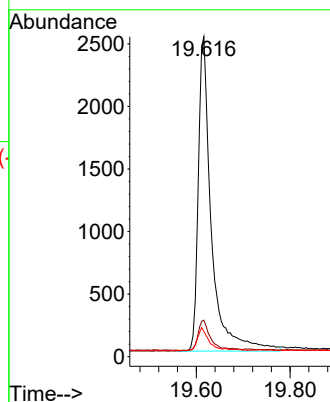
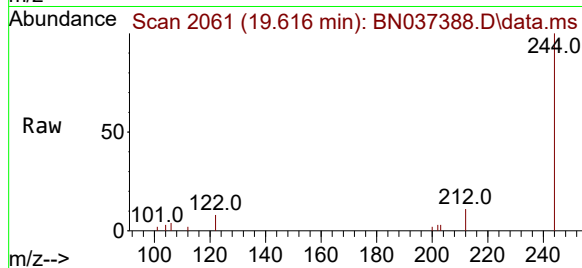




#31
Terphenyl-d14
Concen: 0.407 ng
RT: 19.616 min Scan# 2061
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

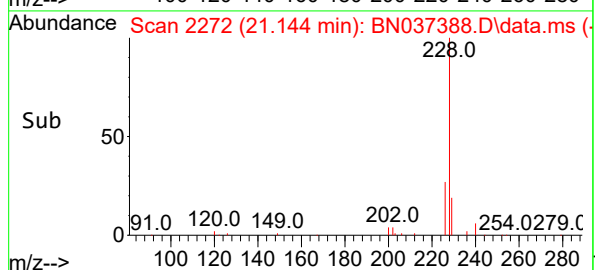
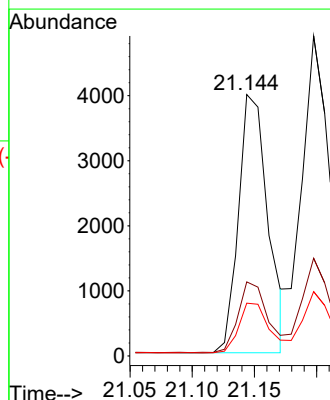
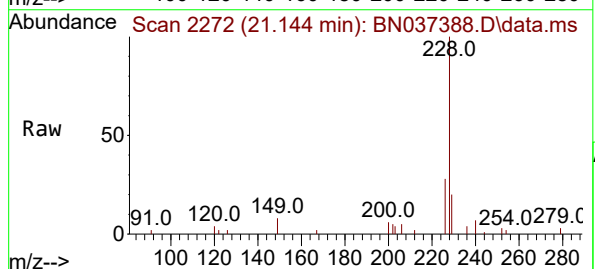
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

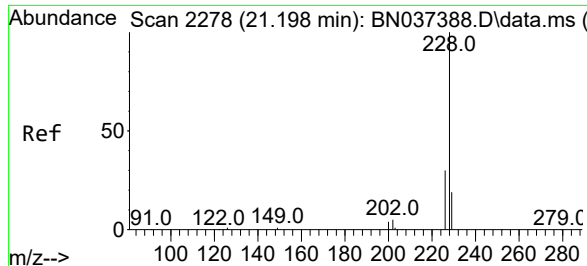
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.4	9.1	13.7
122	7.9	6.3	9.5



#32
Benzo(a)anthracene
Concen: 0.371 ng
RT: 21.144 min Scan# 2272
Delta R.T. 0.000 min
Lab File: BN037388.D
Acq: 26 Jun 2025 11:53

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.6	34.0
229	20.2	16.2	24.2





#33

Chrysene

Concen: 0.407 ng

RT: 21.198 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

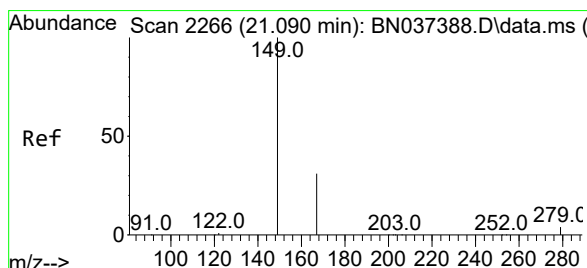
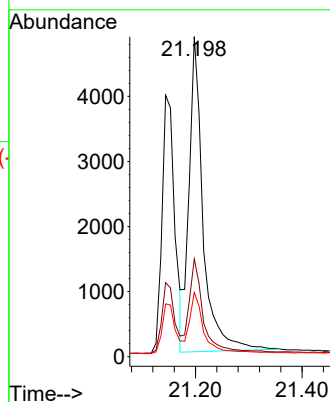
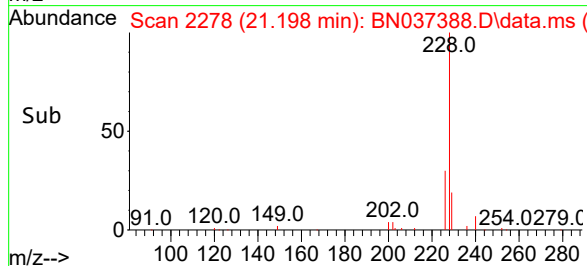
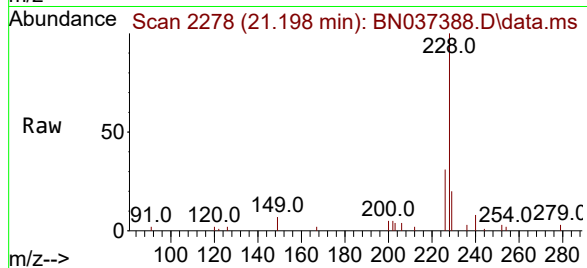
Tgt Ion:228 Resp: 8883

Ion Ratio Lower Upper

228 100

226 30.6 24.5 36.7

229 20.1 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.405 ng

RT: 21.090 min Scan# 2266

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

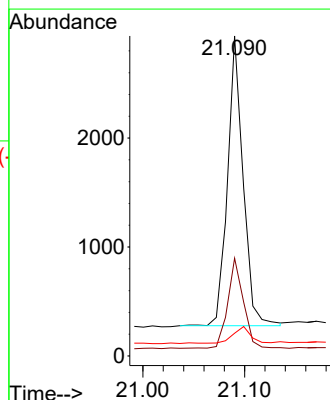
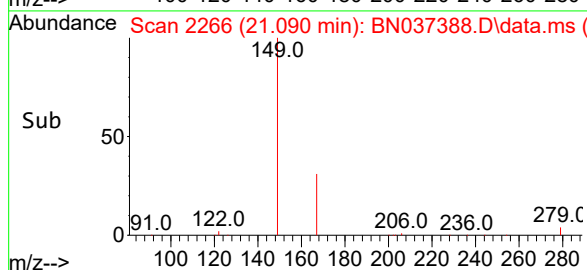
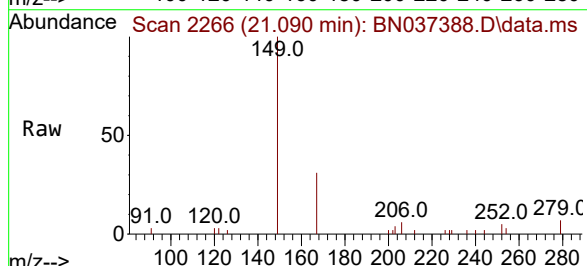
Tgt Ion:149 Resp: 2830

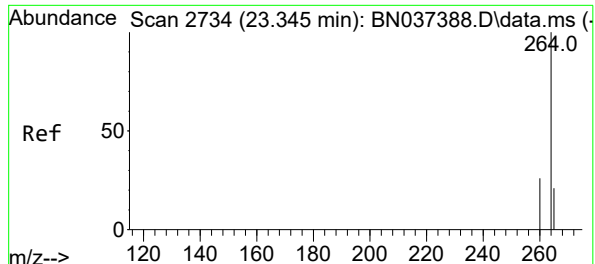
Ion Ratio Lower Upper

149 100

167 31.0 24.8 37.2

279 6.3 5.0 7.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.345 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037388.D

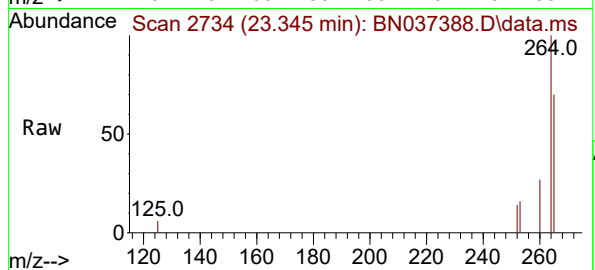
Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



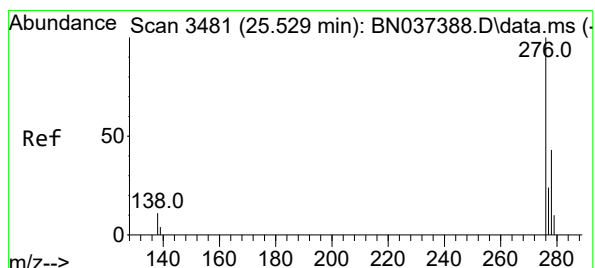
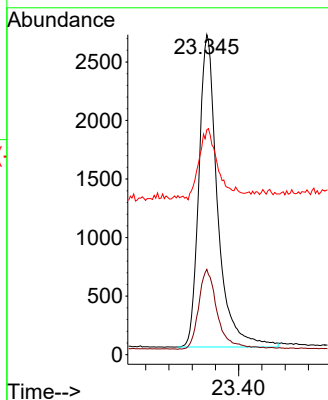
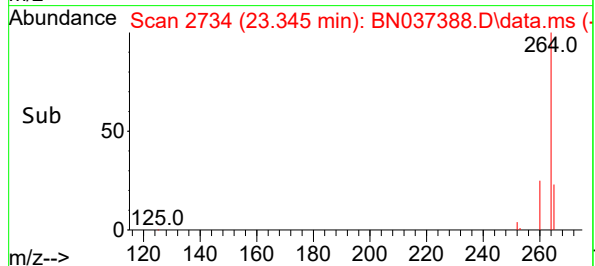
Tgt Ion:264 Resp: 5950

Ion Ratio Lower Upper

264 100

260 26.7 21.4 32.0

265 70.3 56.2 84.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.374 ng

RT: 25.529 min Scan# 3481

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

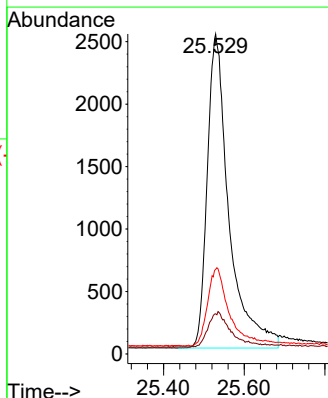
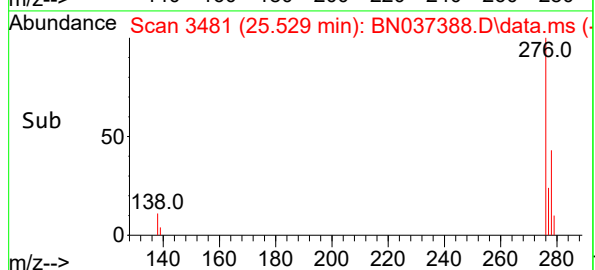
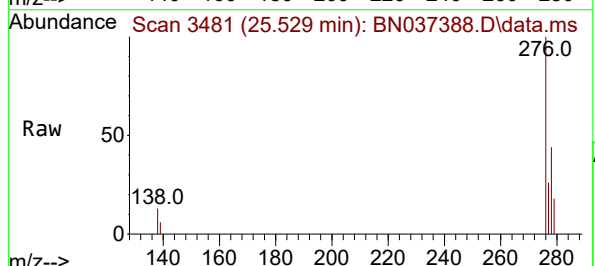
Tgt Ion:276 Resp: 9382

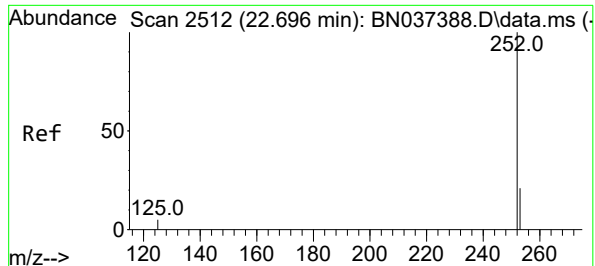
Ion Ratio Lower Upper

276 100

138 10.6 8.5 12.7

277 24.6 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.374 ng

RT: 22.696 min Scan# 2512

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

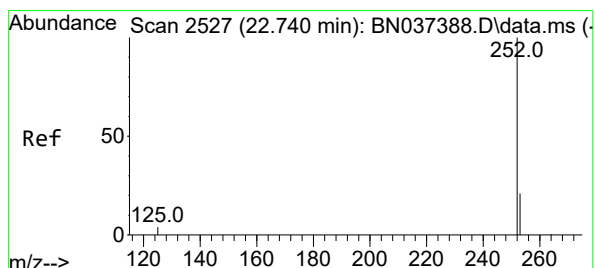
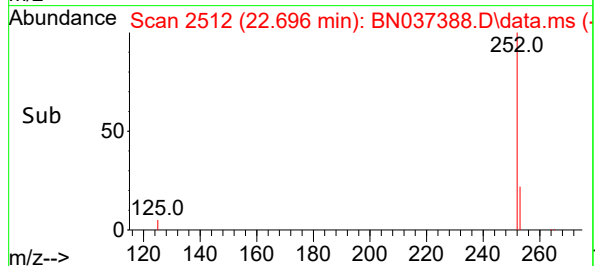
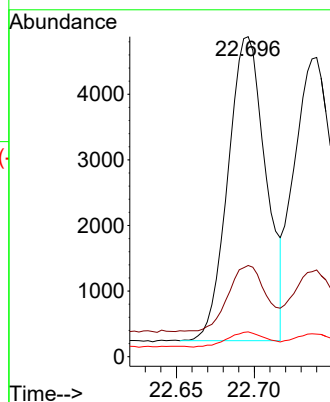
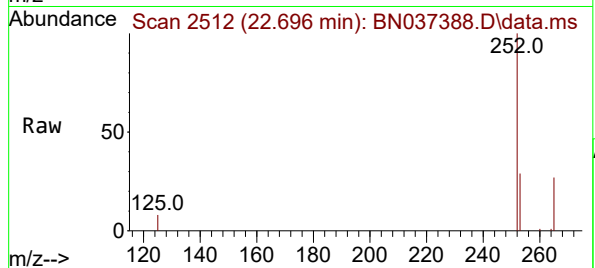
Tgt Ion:252 Resp: 7840

Ion Ratio Lower Upper

252 100

253 28.5 22.8 34.2

125 7.8 6.2 9.4



#38

Benzo(k)fluoranthene

Concen: 0.388 ng

RT: 22.740 min Scan# 2527

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

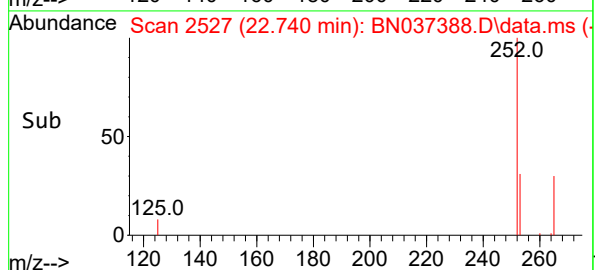
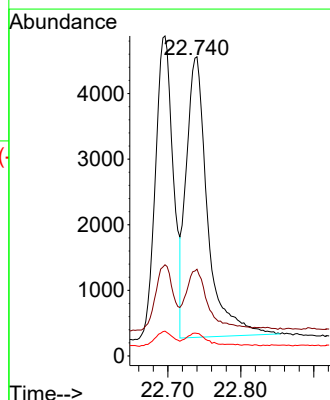
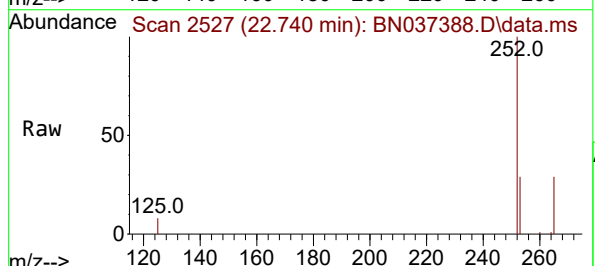
Tgt Ion:252 Resp: 8696

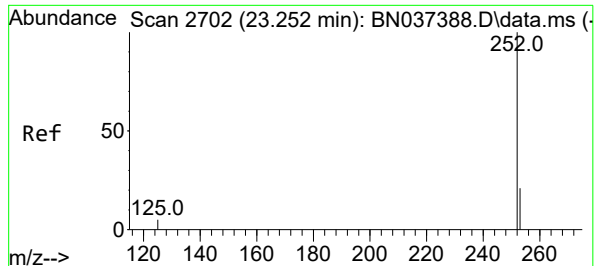
Ion Ratio Lower Upper

252 100

253 29.0 23.2 34.8

125 7.5 6.0 9.0





#39

Benzo(a)pyrene

Concen: 0.377 ng

RT: 23.252 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

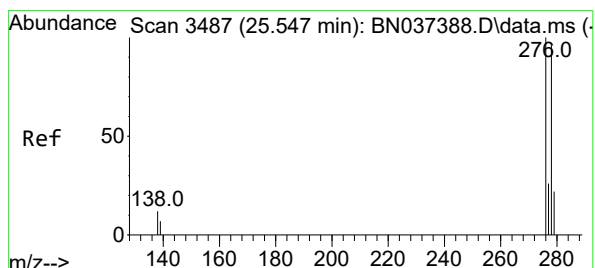
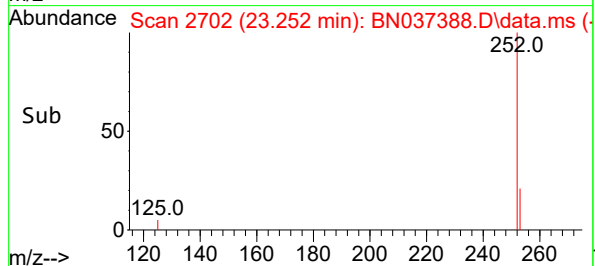
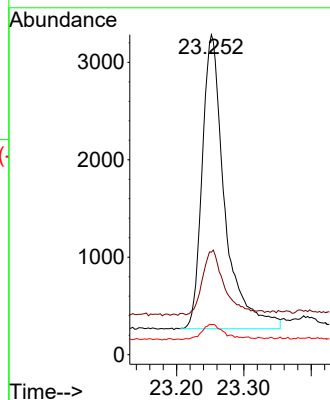
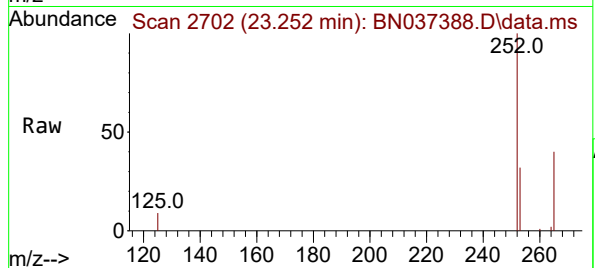
Tgt Ion:252 Resp: 7038

Ion Ratio Lower Upper

252 100

253 32.0 25.6 38.4

125 9.4 7.5 11.3



#40

Dibenzo(a,h)anthracene

Concen: 0.374 ng

RT: 25.547 min Scan# 3487

Delta R.T. 0.000 min

Lab File: BN037388.D

Acq: 26 Jun 2025 11:53

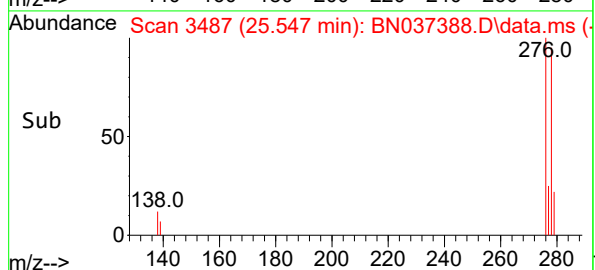
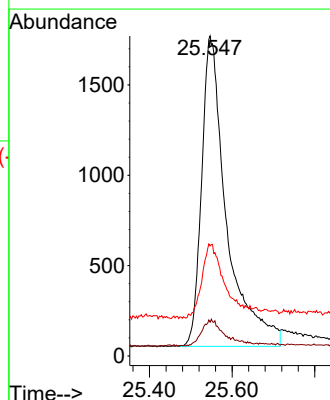
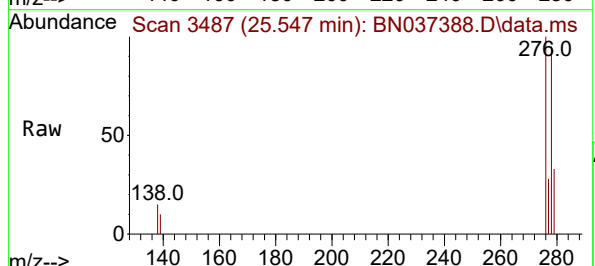
Tgt Ion:278 Resp: 7205

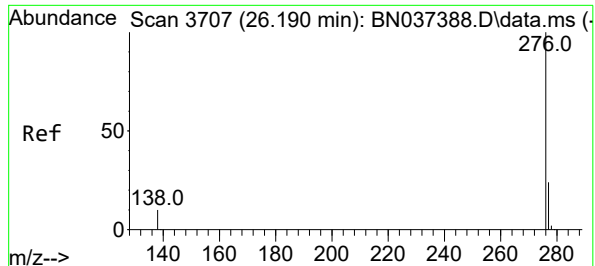
Ion Ratio Lower Upper

278 100

139 10.6 8.5 12.7

279 34.4 27.5 41.3





#41

Benzo(g,h,i)perylene

Concen: 0.382 ng

RT: 26.190 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037388.D

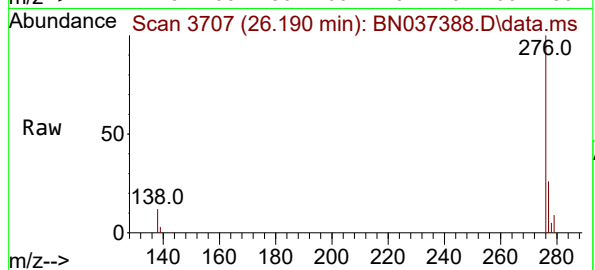
Acq: 26 Jun 2025 11:53

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4



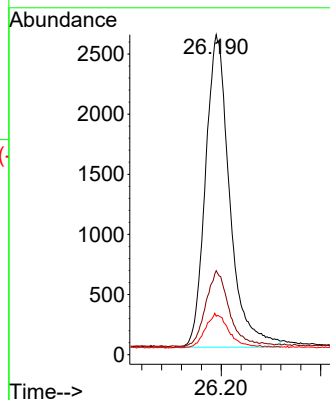
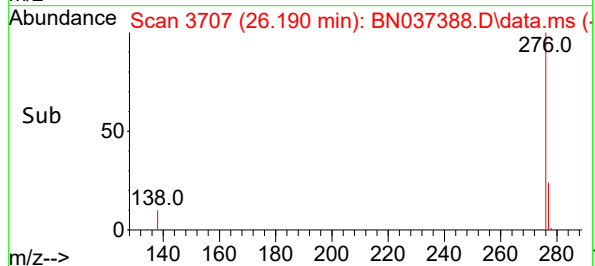
Tgt Ion:276 Resp: 8788

Ion Ratio Lower Upper

276 100

277 26.2 21.0 31.4

138 12.0 9.6 14.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
 Data File : BN037389.D
 Acq On : 26 Jun 2025 12:29
 Operator : RC/JU
 Sample : SSTDICC0.8
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.8

Quant Time: Jun 26 14:44:25 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 14:40:13 2025
 Response via : Initial Calibration

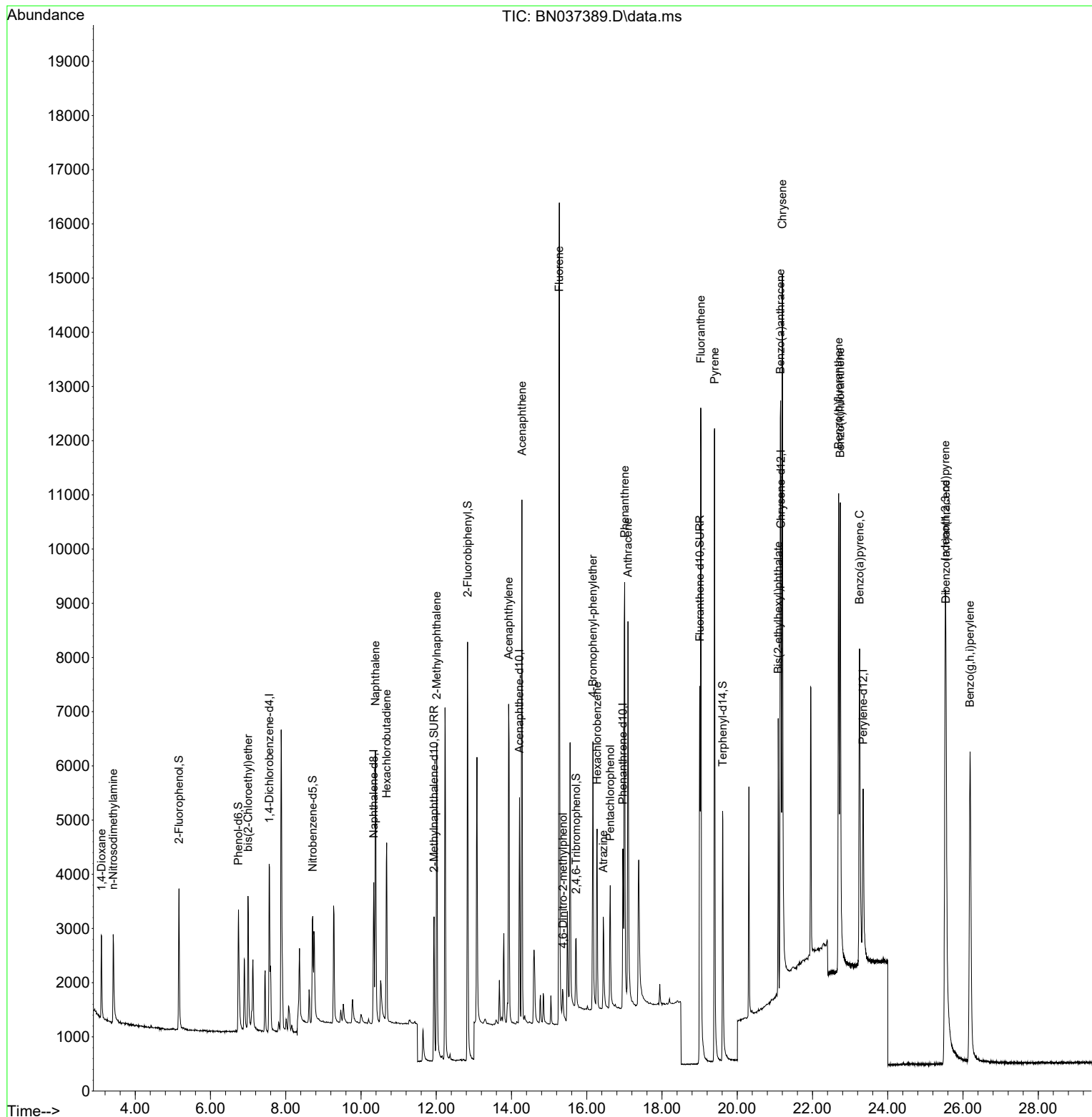
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1666	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	3597	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	2328	0.400	ng	0.00
19) Phenanthrene-d10	16.959	188	4756	0.400	ng	0.00
29) Chrysene-d12	21.162	240	4408	0.400	ng	0.00
35) Perylene-d12	23.345	264	4628	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	2321	0.723	ng	0.00
5) Phenol-d6	6.744	99	2457	0.738	ng	0.00
8) Nitrobenzene-d5	8.717	82	2126	0.735	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	4083	0.734	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	1046	0.766	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	7691	0.765	ng	0.00
27) Fluoranthene-d10	19.003	212	9775	0.717	ng	0.00
31) Terphenyl-d14	19.612	244	7017	0.747	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	1220	0.817	ng	97
3) n-Nitrosodimethylamine	3.415	42	1219	0.781	ng	# 98
6) bis(2-Chloroethyl)ether	6.997	93	2313	0.781	ng	99
9) Naphthalene	10.383	128	6991	0.755	ng	98
10) Hexachlorobutadiene	10.682	225	2877	0.783	ng	# 99
12) 2-Methylnaphthalene	12.011	142	4762	0.747	ng	97
16) Acenaphthylene	13.925	152	7160	0.742	ng	99
17) Acenaphthene	14.277	154	4696	0.745	ng	100
18) Fluorene	15.272	166	6613	0.743	ng	99
20) 4,6-Dinitro-2-methylph...	15.368	198	826	0.676	ng	# 79
21) 4-Bromophenyl-phenylether	16.165	248	2555	0.762	ng	96
22) Hexachlorobenzene	16.276	284	2768	0.767	ng	99
23) Atrazine	16.438	200	1939	0.730	ng	97
24) Pentachlorophenol	16.624	266	1406	0.722	ng	96
25) Phenanthrene	17.009	178	9870	0.737	ng	99
26) Anthracene	17.096	178	9124	0.741	ng	99
28) Fluoranthene	19.031	202	12556	0.734	ng	100
30) Pyrene	19.398	202	12616	0.756	ng	100
32) Benzo(a)anthracene	21.144	228	10155	0.733	ng	100
33) Chrysene	21.198	228	13144	0.767	ng	100
34) Bis(2-ethylhexyl)phtha...	21.090	149	4107	0.749	ng	99
36) Indeno(1,2,3-cd)pyrene	25.529	276	14993	0.768	ng	98
37) Benzo(b)fluoranthene	22.693	252	12221	0.749	ng	96
38) Benzo(k)fluoranthene	22.737	252	13232	0.759	ng	96
39) Benzo(a)pyrene	23.252	252	10863	0.748	ng	95
40) Dibenzo(a,h)anthracene	25.547	278	11379	0.759	ng	94
41) Benzo(g,h,i)perylene	26.187	276	13535	0.756	ng	98

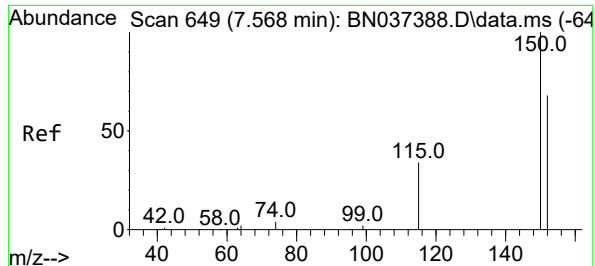
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037389.D
Acq On : 26 Jun 2025 12:29
Operator : RC/JU
Sample : SSTDIC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDIC0.8

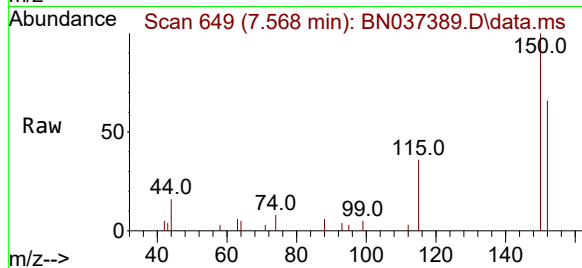
Quant Time: Jun 26 14:44:25 2025
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 14:40:13 2025
Response via : Initial Calibration



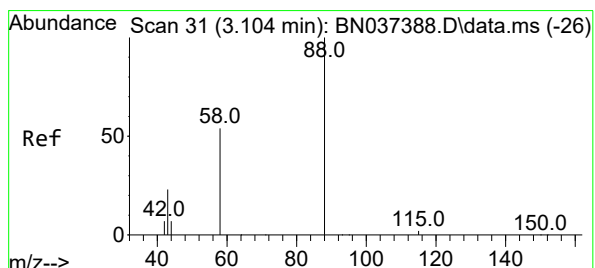
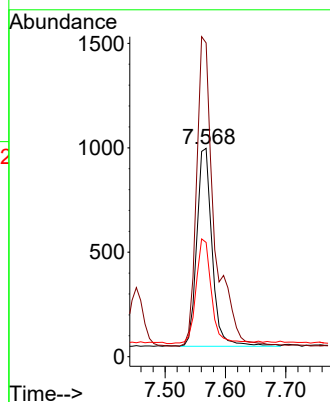
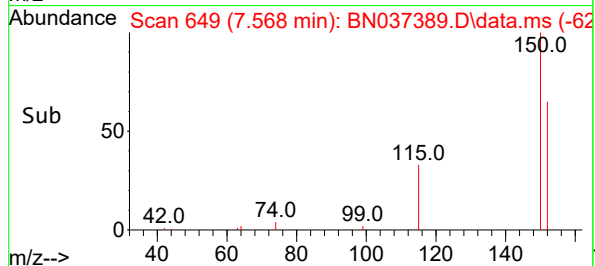


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

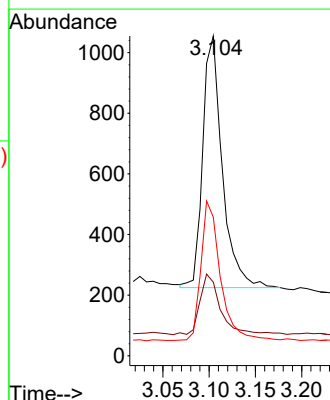
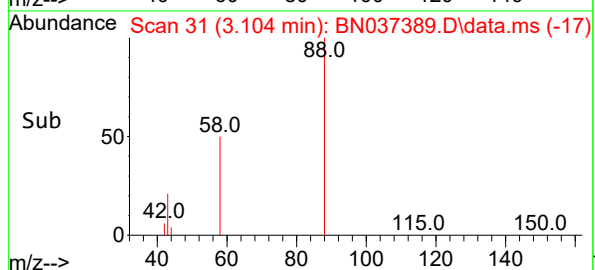
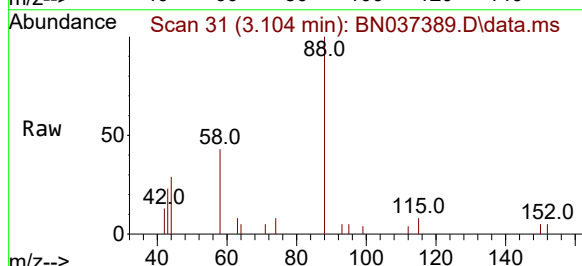


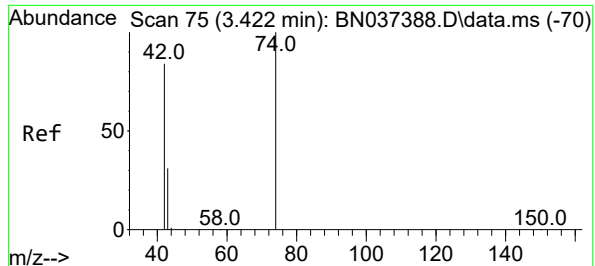
Tgt Ion:152 Resp: 1666
Ion Ratio Lower Upper
152 100
150 150.7 116.2 174.2
115 54.9 42.9 64.3



#2
1,4-Dioxane
Concen: 0.817 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion: 88 Resp: 1220
Ion Ratio Lower Upper
88 100
43 25.2 21.6 32.4
58 54.9 45.9 68.9

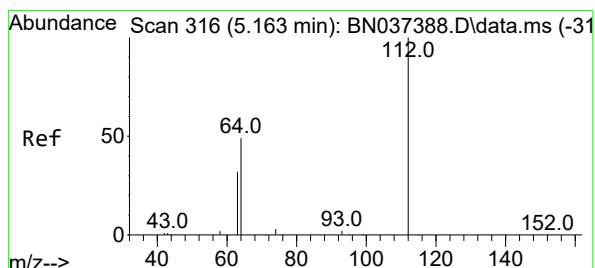
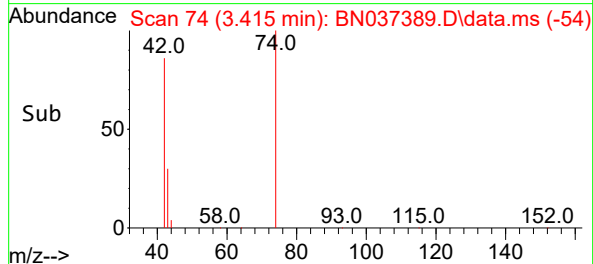
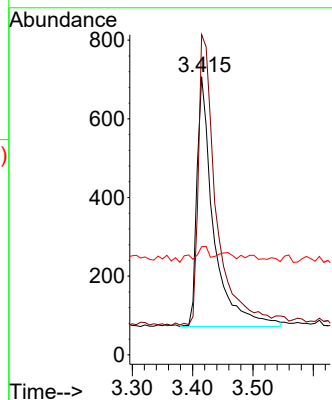
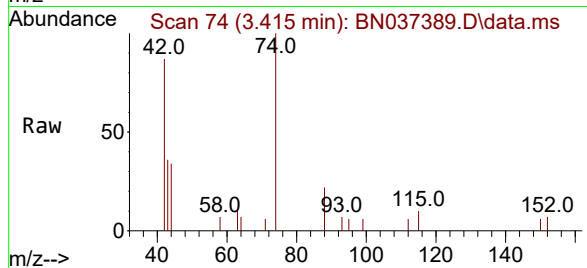




#3
n-Nitrosodimethylamine
Concen: 0.781 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

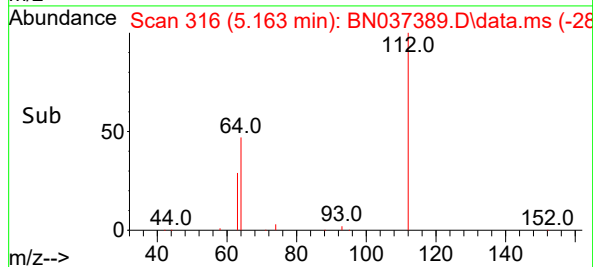
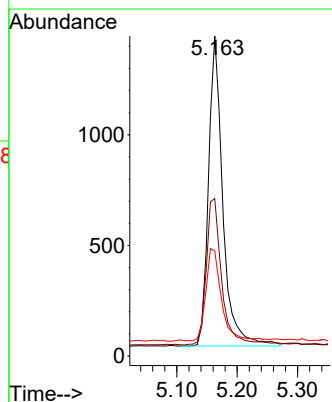
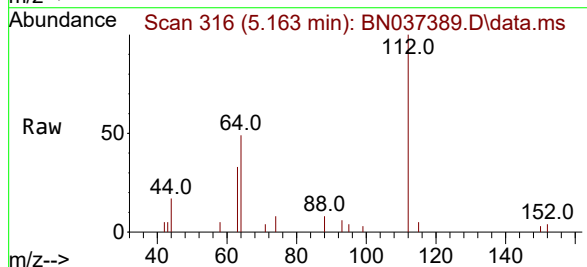
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

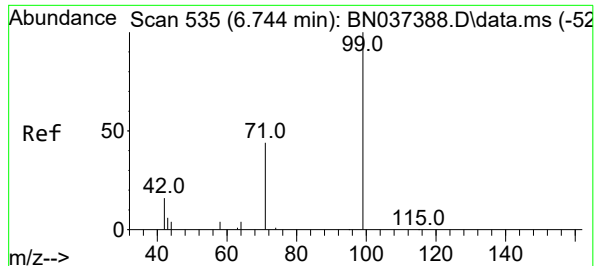
Tgt Ion: 42 Resp: 1219
Ion Ratio Lower Upper
42 100
74 123.9 97.8 146.8
44 6.2 8.7 13.1#



#4
2-Fluorophenol
Concen: 0.723 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion: 112 Resp: 2321
Ion Ratio Lower Upper
112 100
64 51.5 40.3 60.5
63 32.2 26.1 39.1

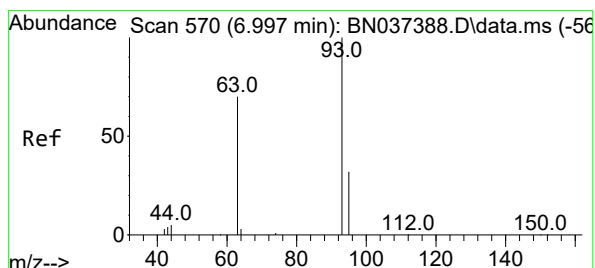
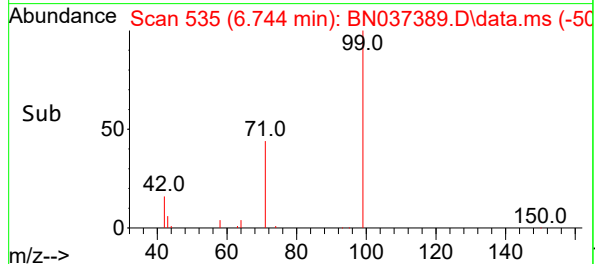
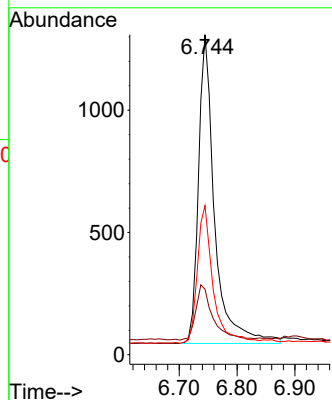
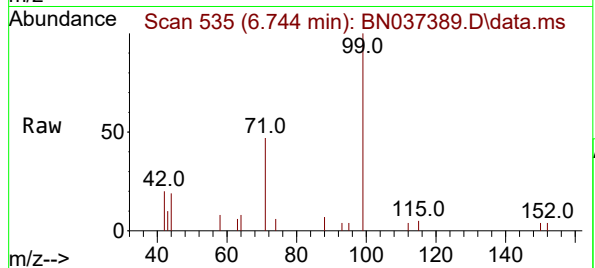




#5
Phenol-d6
Concen: 0.738 ng
RT: 6.744 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

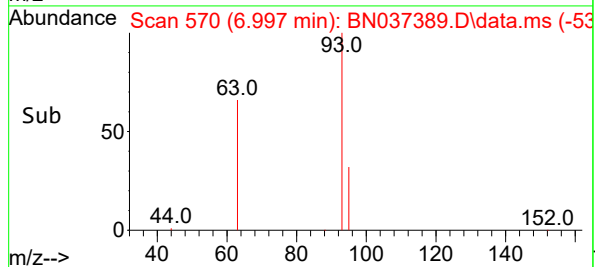
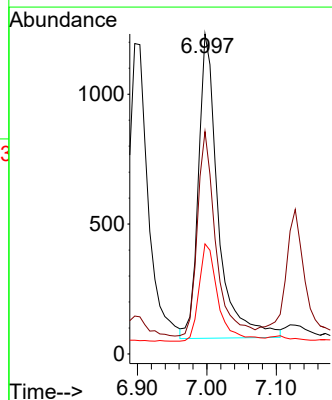
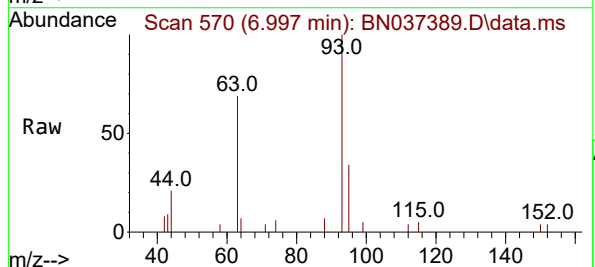
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

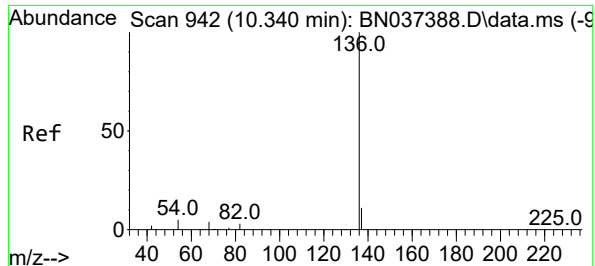
Tgt Ion: 99 Resp: 2457
Ion Ratio Lower Upper
99 100
42 18.7 15.6 23.4
71 43.0 35.8 53.8



#6
bis(2-Chloroethyl)ether
Concen: 0.781 ng
RT: 6.997 min Scan# 570
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion: 93 Resp: 2313
Ion Ratio Lower Upper
93 100
63 62.6 49.6 74.4
95 31.1 23.9 35.9

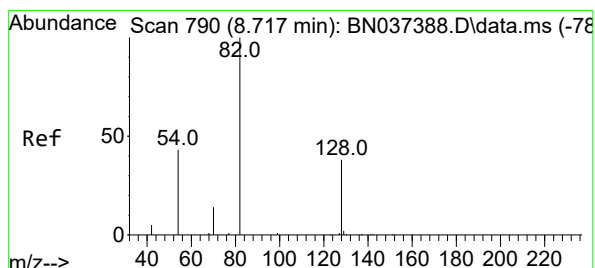
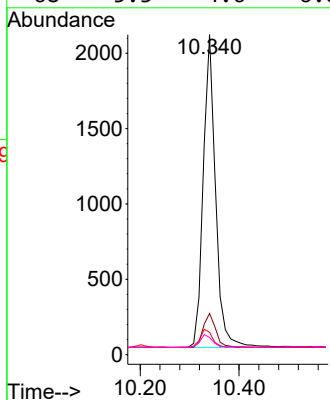
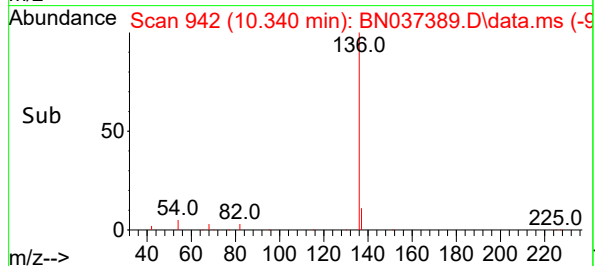
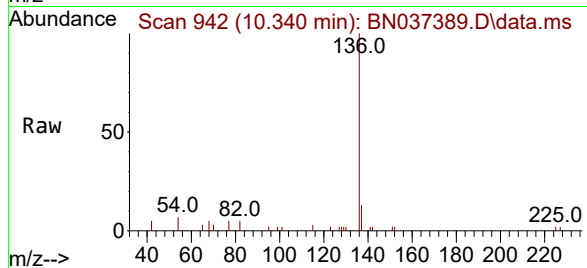




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

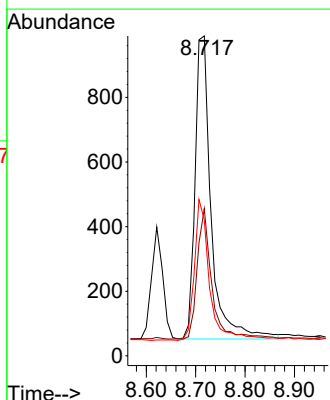
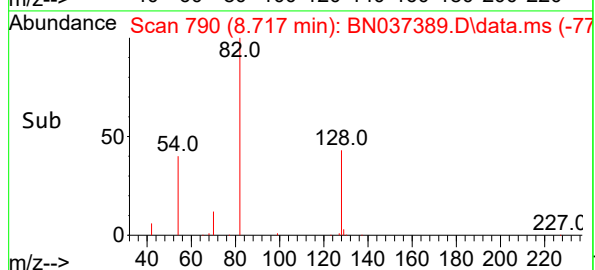
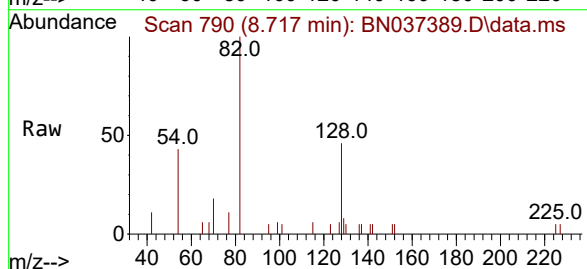
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

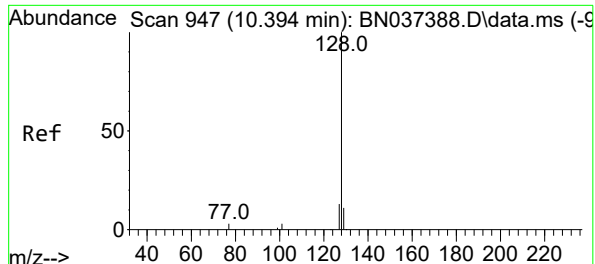
Tgt Ion:	136	Resp:	3597
Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.4	15.6
54	7.0	5.6	8.4
68	5.3	4.6	6.8



#8
Nitrobenzene-d5
Concen: 0.735 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:	82	Resp:	2126
Ion	Ratio	Lower	Upper
82	100		
128	46.1	34.0	51.0
54	42.5	37.7	56.5

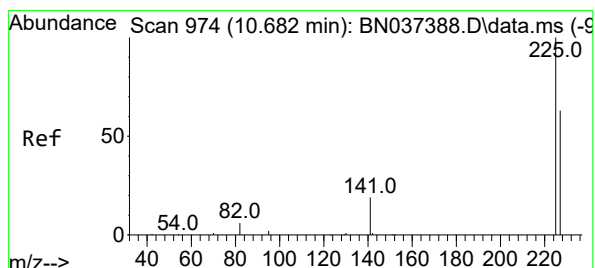
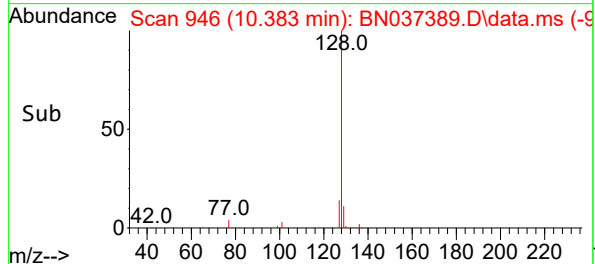
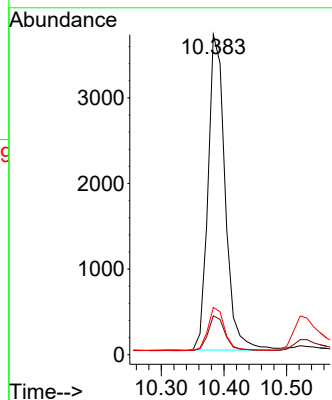
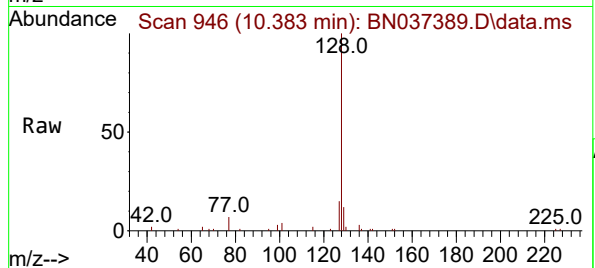




#9
Naphthalene
Concen: 0.755 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.011 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

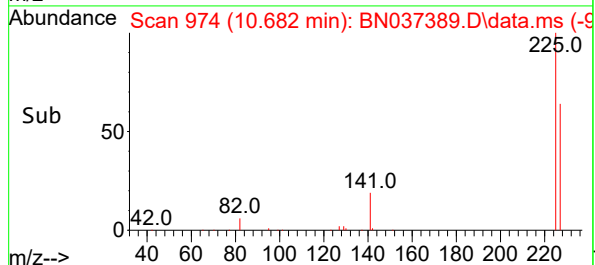
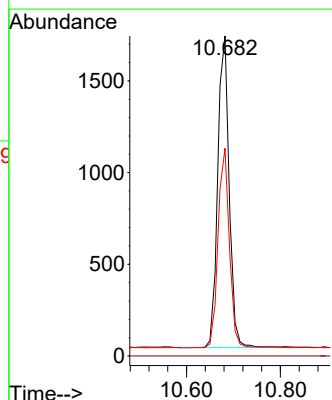
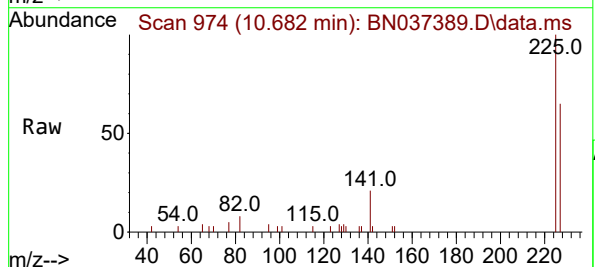
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

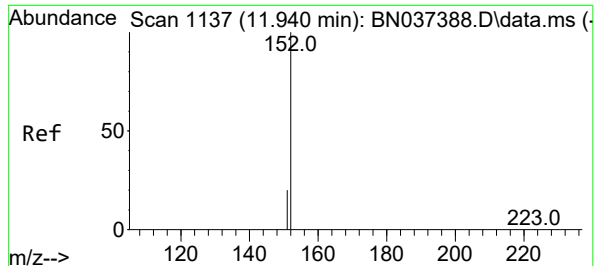
Tgt Ion:128 Resp: 6991
Ion Ratio Lower Upper
128 100
129 12.2 10.4 15.6
127 14.8 12.2 18.4



#10
Hexachlorobutadiene
Concen: 0.783 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:225 Resp: 2877
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 49.9 74.9

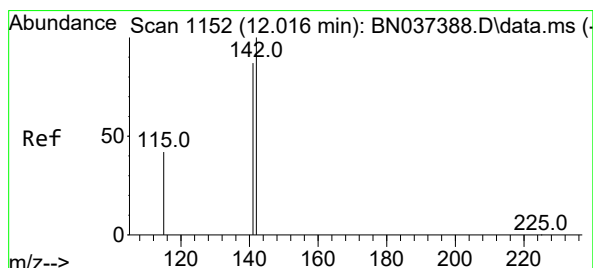
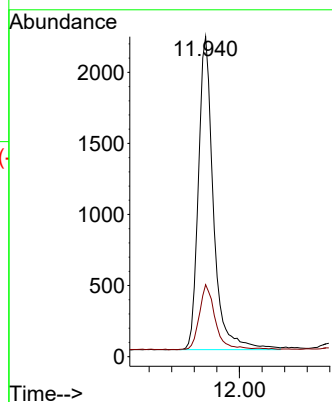
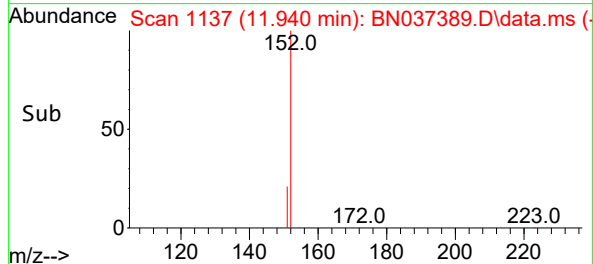
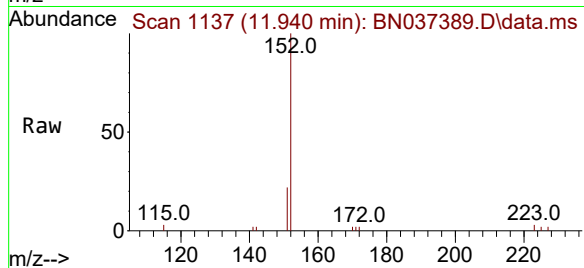




#11
2-Methylnaphthalene-d10
Concen: 0.734 ng
RT: 11.940 min Scan# 1137
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

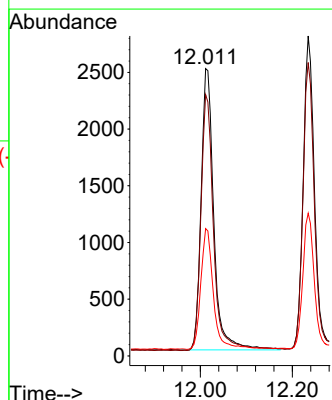
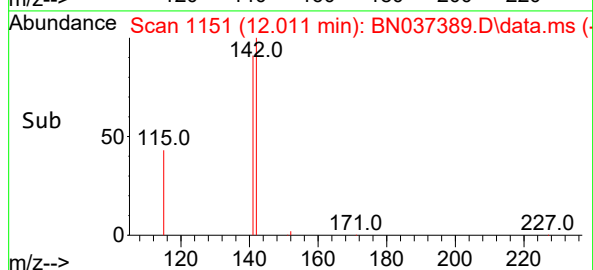
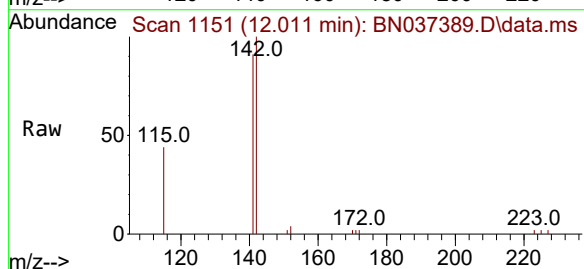
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

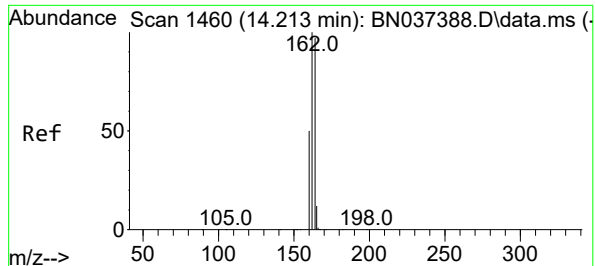
Tgt Ion:152 Resp: 4083
Ion Ratio Lower Upper
152 100
151 21.6 18.4 27.6



#12
2-Methylnaphthalene
Concen: 0.747 ng
RT: 12.011 min Scan# 1151
Delta R.T. -0.005 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:142 Resp: 4762
Ion Ratio Lower Upper
142 100
141 90.9 70.1 105.1
115 44.3 35.8 53.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.213 min Scan# 1460

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

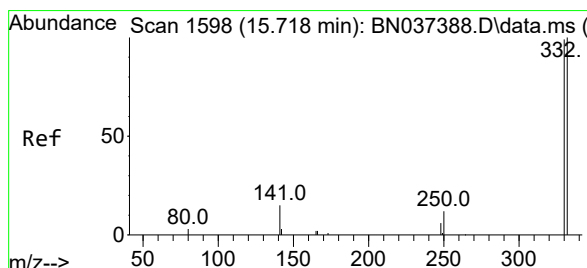
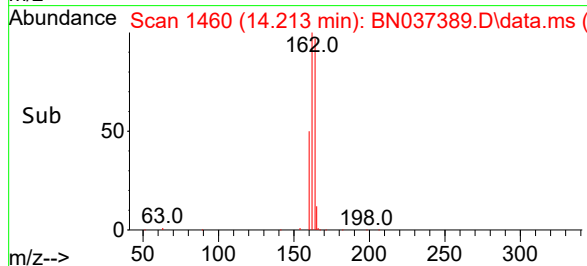
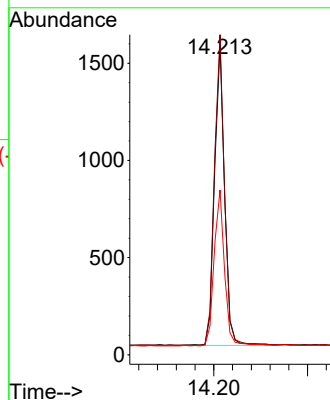
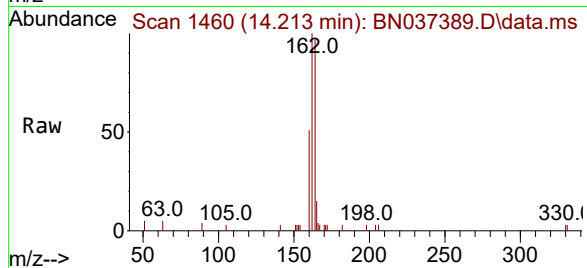
Tgt Ion:164 Resp: 2328

Ion Ratio Lower Upper

164 100

162 103.1 82.6 123.8

160 53.1 42.2 63.2



#14

2,4,6-Tribromophenol

Concen: 0.766 ng

RT: 15.718 min Scan# 1598

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

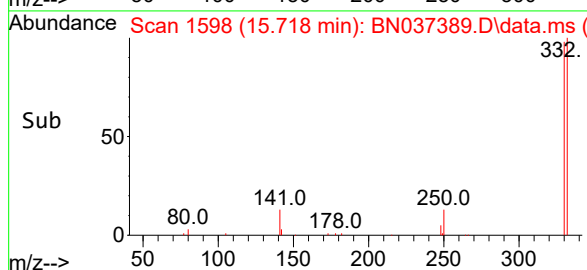
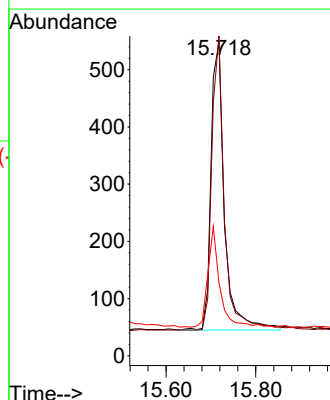
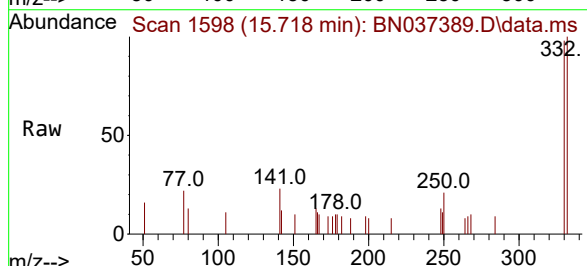
Tgt Ion:330 Resp: 1046

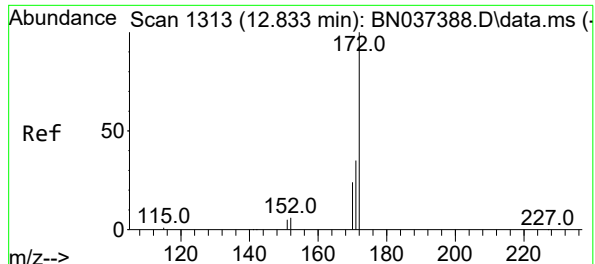
Ion Ratio Lower Upper

330 100

332 95.4 77.8 116.8

141 31.1 24.0 36.0

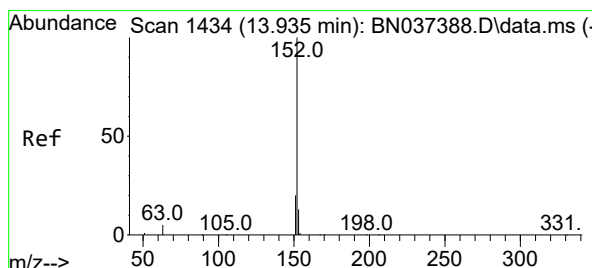
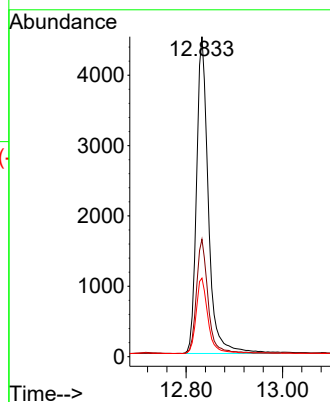
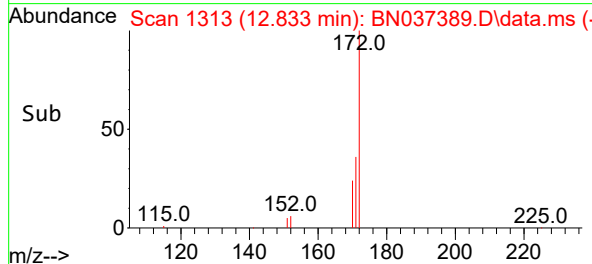
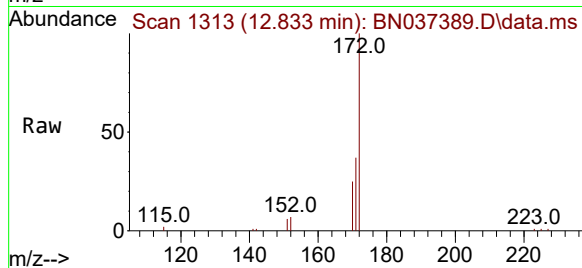




#15
2-Fluorobiphenyl
Concen: 0.765 ng
RT: 12.833 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

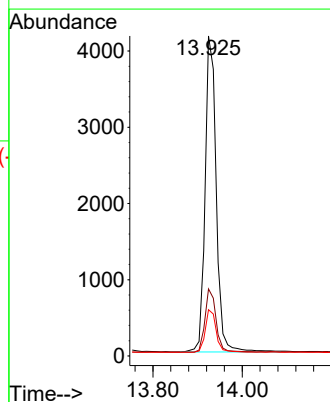
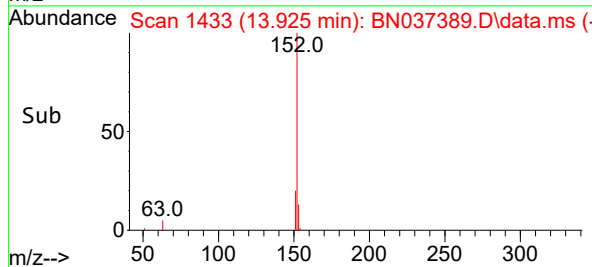
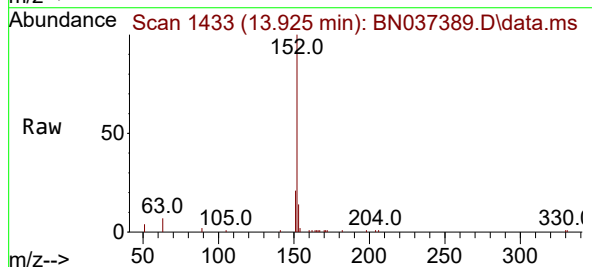
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

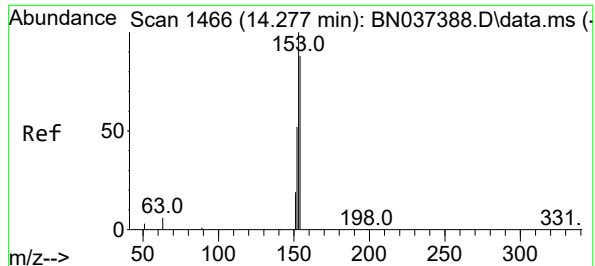
Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.7	28.8	43.2
170	24.5	20.3	30.5



#16
Acenaphthylene
Concen: 0.742 ng
RT: 13.925 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.8	23.6
153	13.3	10.3	15.5





#17

Acenaphthene

Concen: 0.745 ng

RT: 14.277 min Scan# 1466

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

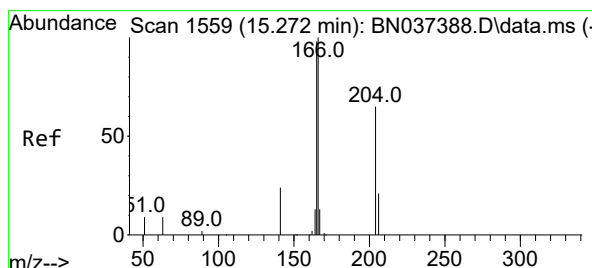
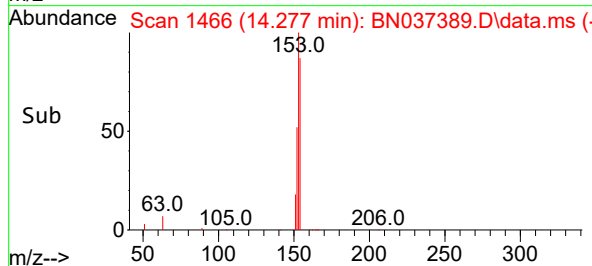
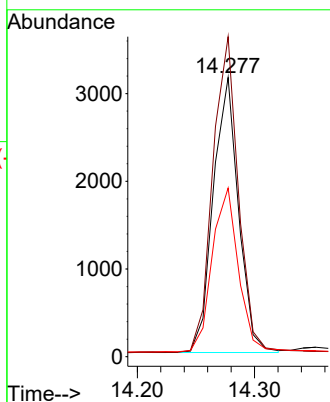
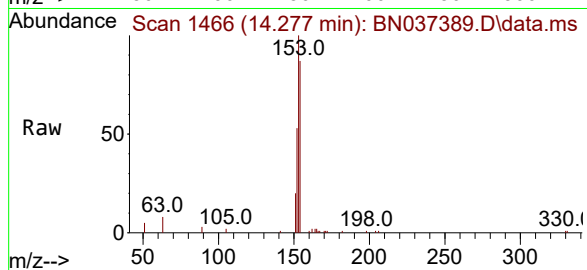
Tgt Ion:154 Resp: 4696

Ion Ratio Lower Upper

154 100

153 117.8 94.6 141.8

152 62.8 50.2 75.2



#18

Fluorene

Concen: 0.743 ng

RT: 15.272 min Scan# 1559

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

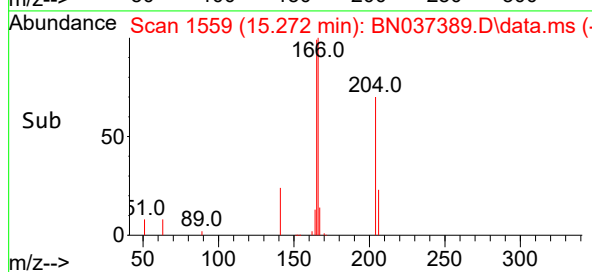
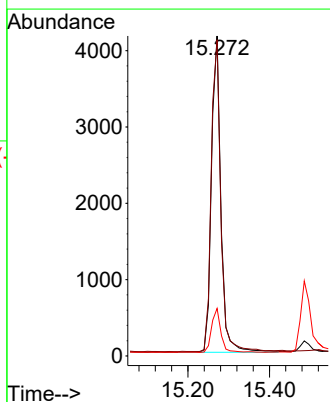
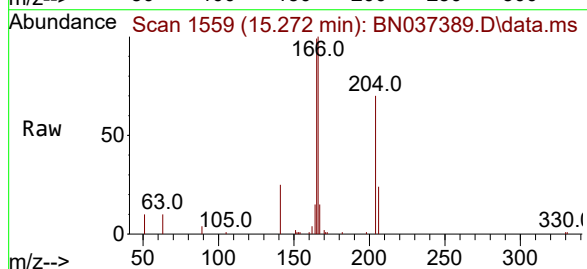
Tgt Ion:166 Resp: 6613

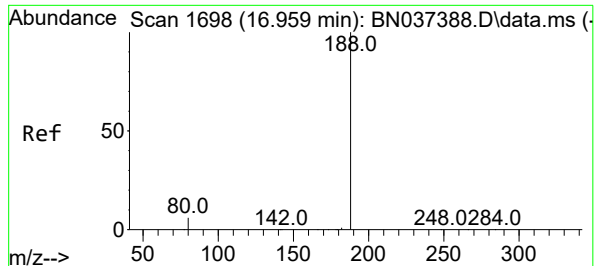
Ion Ratio Lower Upper

166 100

165 100.0 79.4 119.2

167 13.7 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.959 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

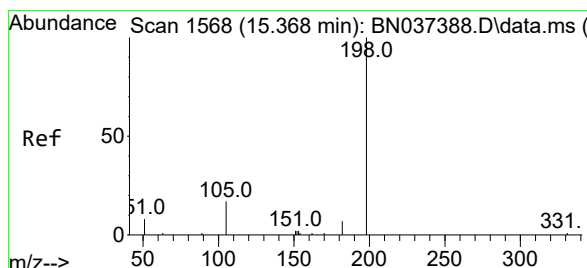
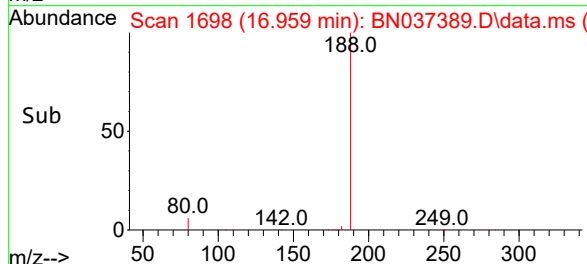
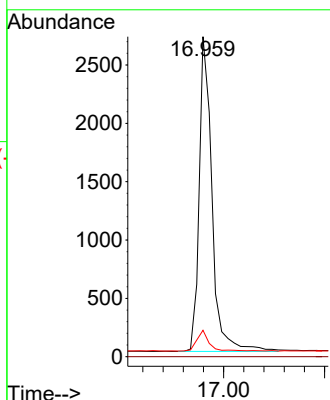
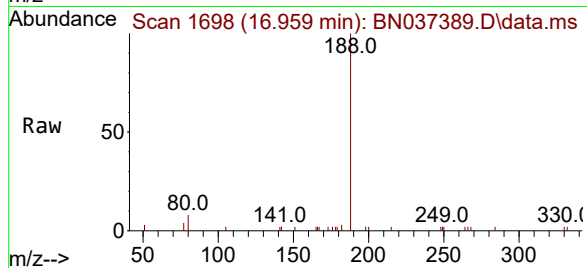
Tgt Ion:188 Resp: 4756

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.2 6.2 9.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.676 ng

RT: 15.368 min Scan# 1568

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

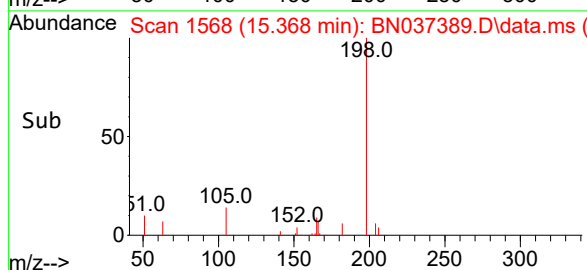
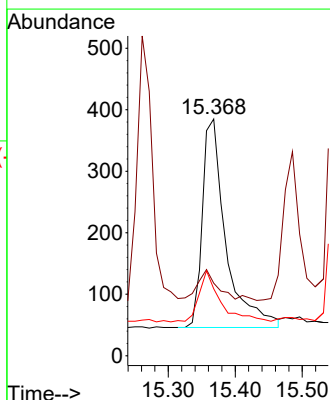
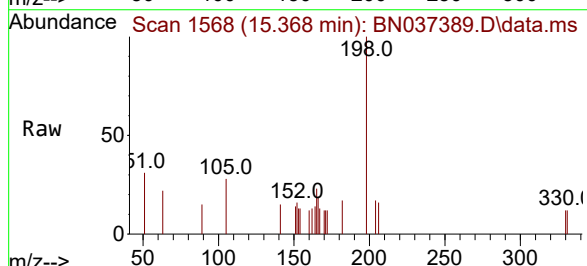
Tgt Ion:198 Resp: 826

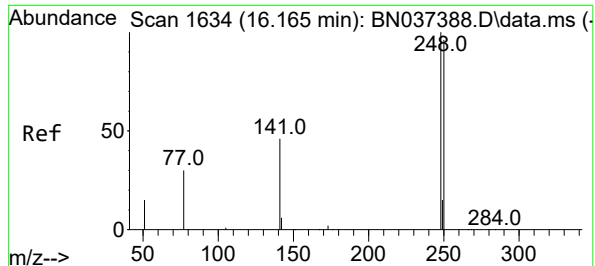
Ion Ratio Lower Upper

198 100

51 30.6 38.8 58.2#

105 28.3 29.8 44.6#

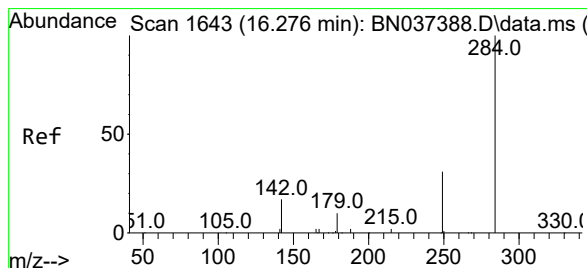
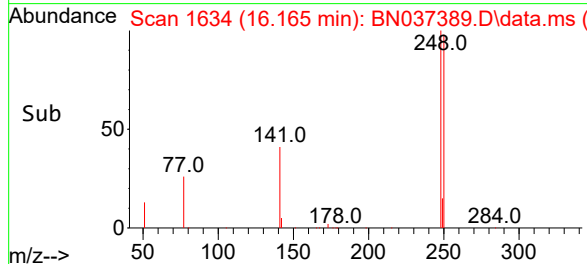
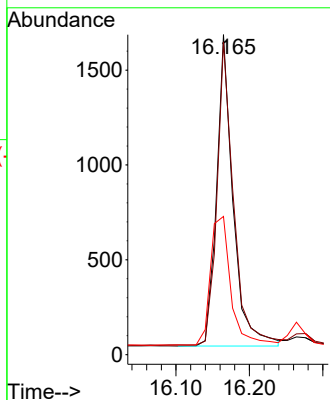
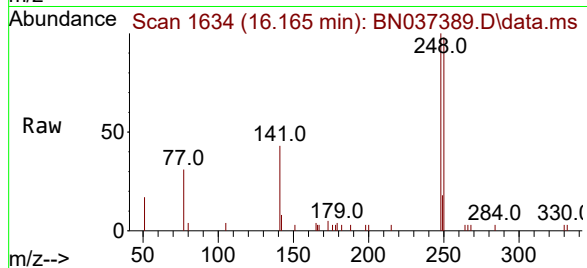




#21
4-Bromophenyl-phenylether
Concen: 0.762 ng
RT: 16.165 min Scan# 1634
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

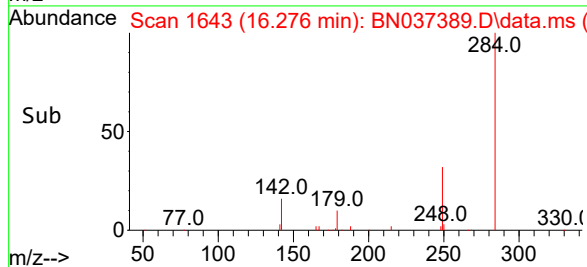
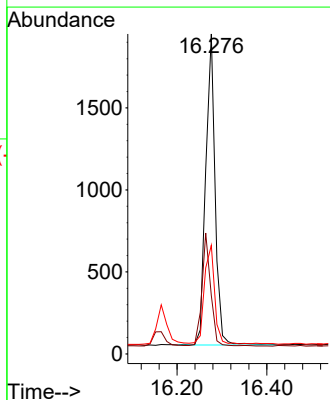
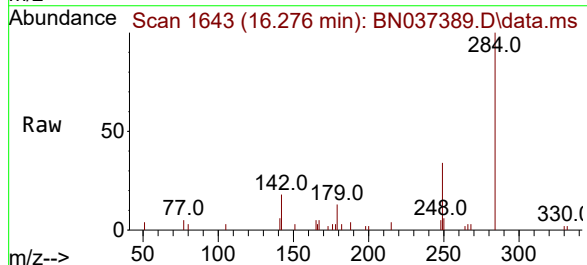
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

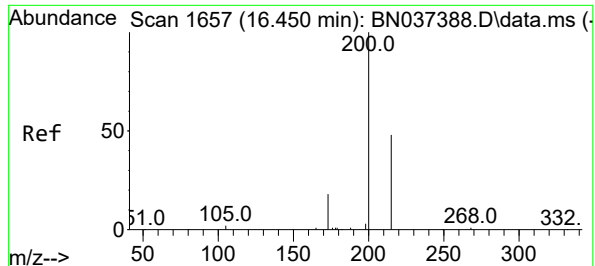
Tgt Ion	Ratio	Lower	Upper
248	100		
250	97.7	77.0	115.4
141	43.2	38.7	58.1



#22
Hexachlorobenzene
Concen: 0.767 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.0	27.2	40.8
249	34.2	26.7	40.1





#23

Atrazine

Concen: 0.730 ng

RT: 16.438 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

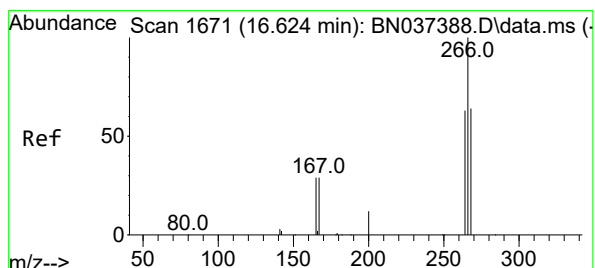
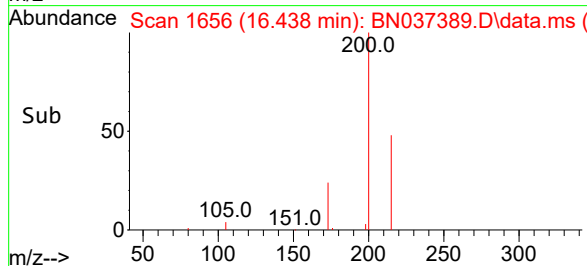
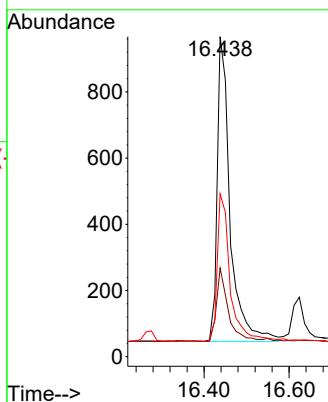
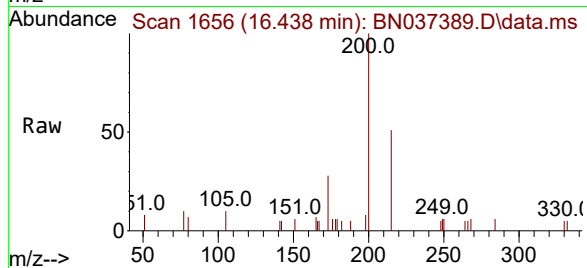
Tgt Ion:200 Resp: 1939

Ion Ratio Lower Upper

200 100

173 27.7 19.0 28.6

215 50.9 41.3 61.9



#24

Pentachlorophenol

Concen: 0.722 ng

RT: 16.624 min Scan# 1671

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

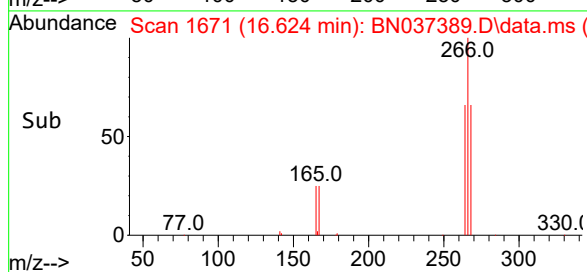
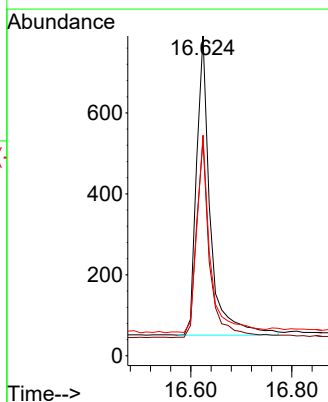
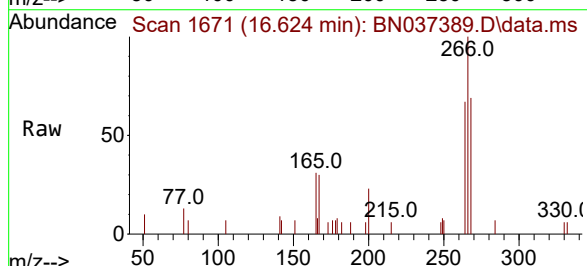
Tgt Ion:266 Resp: 1406

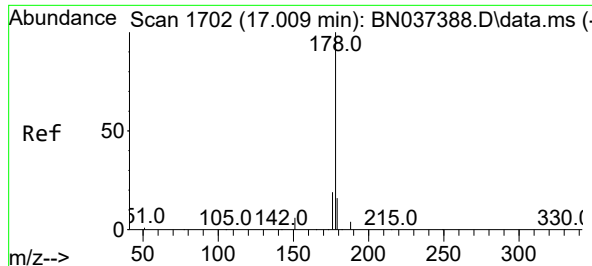
Ion Ratio Lower Upper

266 100

264 63.7 49.2 73.8

268 63.9 54.2 81.4





#25

Phenanthrene

Concen: 0.737 ng

RT: 17.009 min Scan# 1702

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

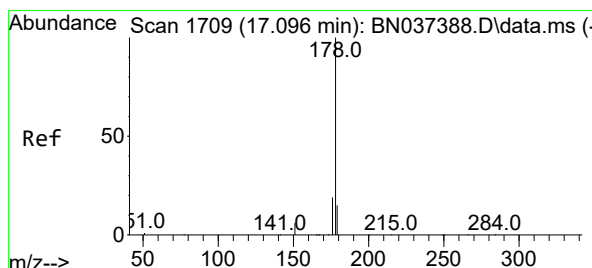
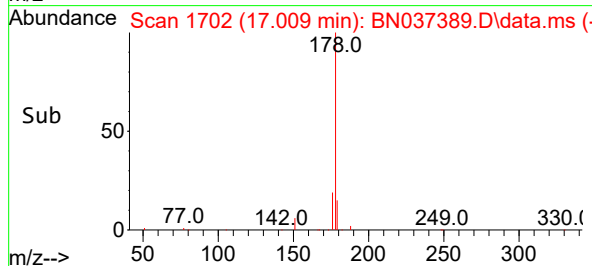
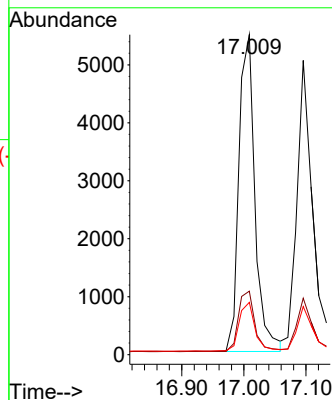
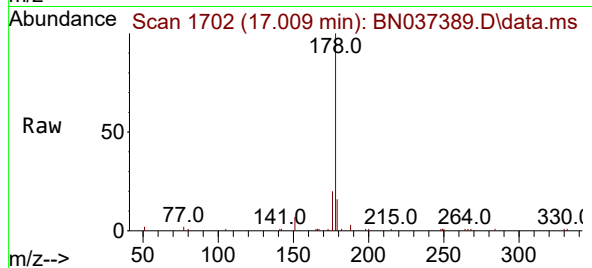
Tgt Ion:178 Resp: 9870

Ion Ratio Lower Upper

178 100

176 19.6 15.6 23.4

179 15.3 12.8 19.2



#26

Anthracene

Concen: 0.741 ng

RT: 17.096 min Scan# 1709

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

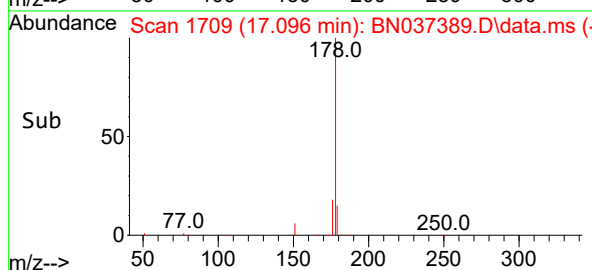
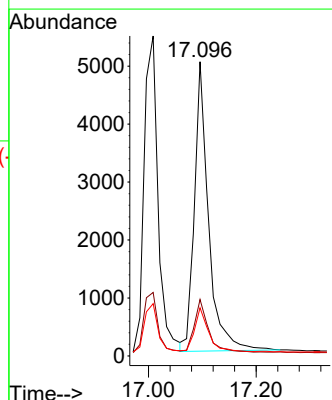
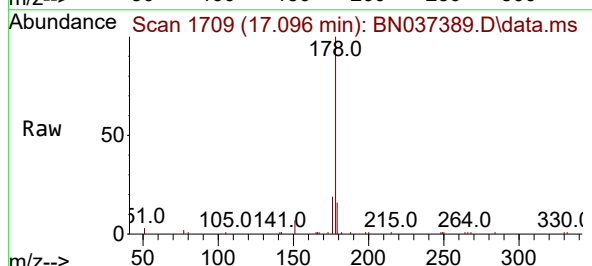
Tgt Ion:178 Resp: 9124

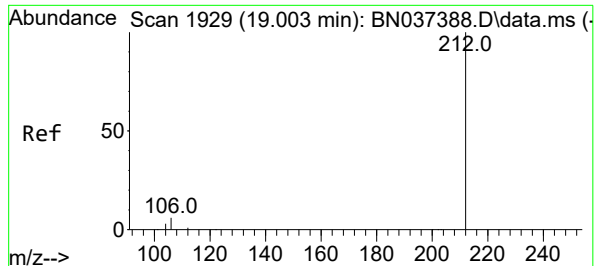
Ion Ratio Lower Upper

178 100

176 18.0 14.9 22.3

179 15.4 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.717 ng

RT: 19.003 min Scan# 1929

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

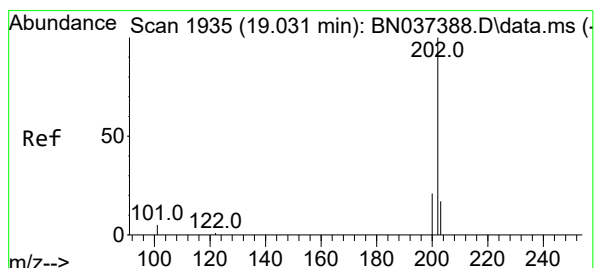
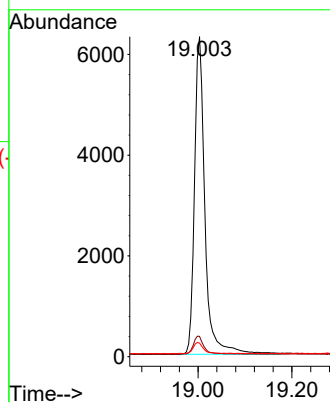
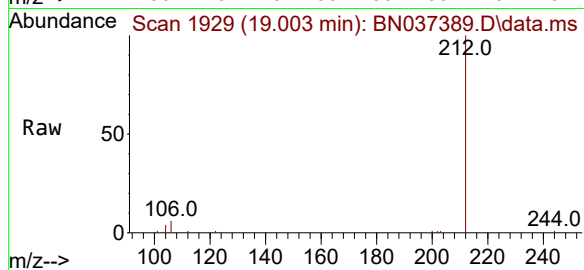
Tgt Ion:212 Resp: 9775

Ion Ratio Lower Upper

212 100

106 5.7 4.5 6.7

104 3.3 2.7 4.1



#28

Fluoranthene

Concen: 0.734 ng

RT: 19.031 min Scan# 1935

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

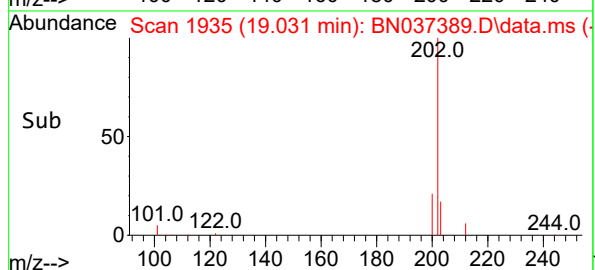
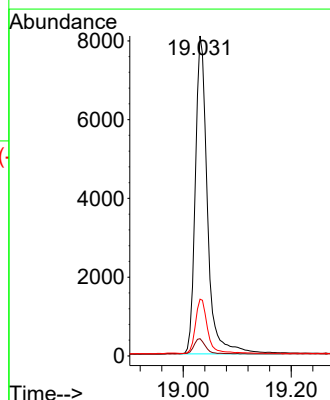
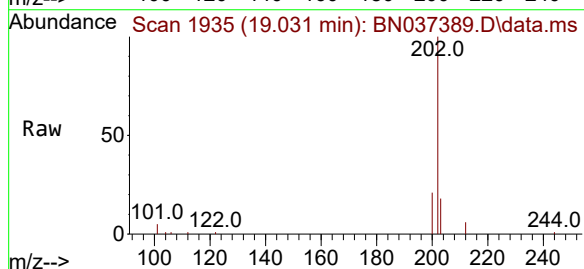
Tgt Ion:202 Resp: 12556

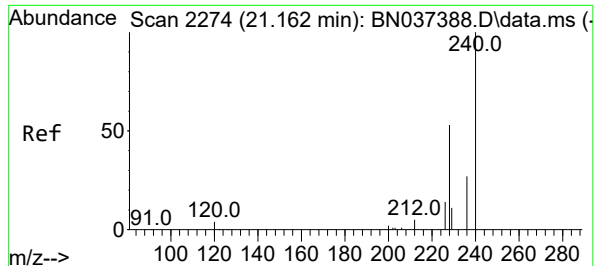
Ion Ratio Lower Upper

202 100

101 4.9 3.8 5.6

203 16.9 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

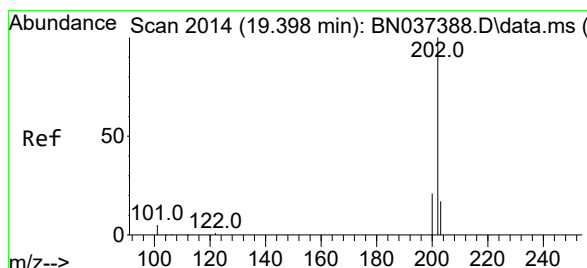
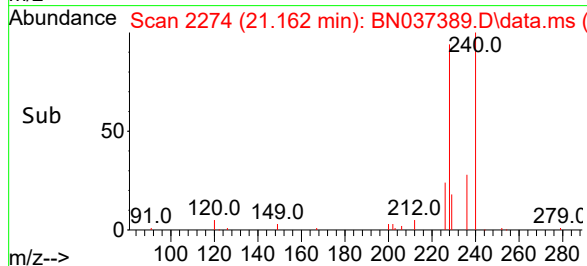
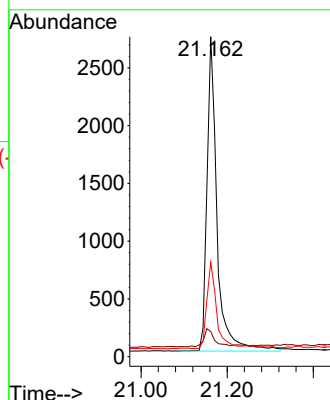
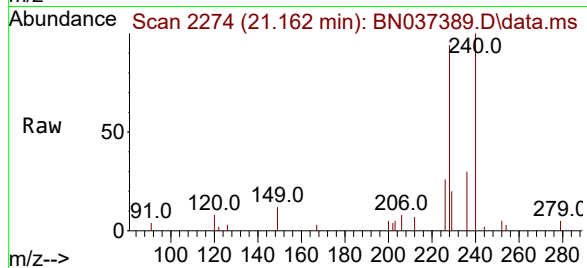
Tgt Ion:240 Resp: 4408

Ion Ratio Lower Upper

240 100

120 7.9 5.3 7.9

236 29.6 22.7 34.1



#30

Pyrene

Concen: 0.756 ng

RT: 19.398 min Scan# 2014

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

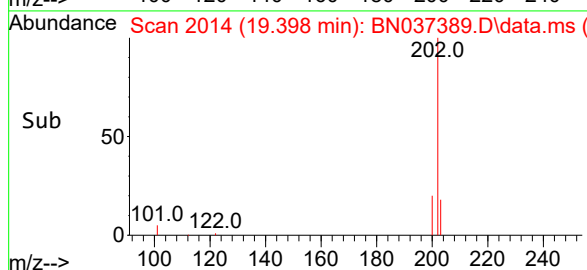
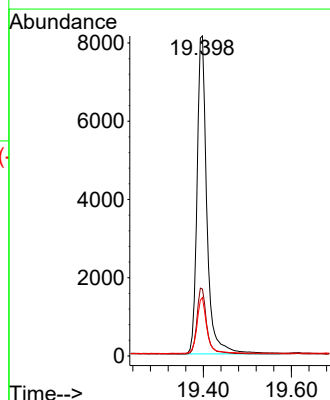
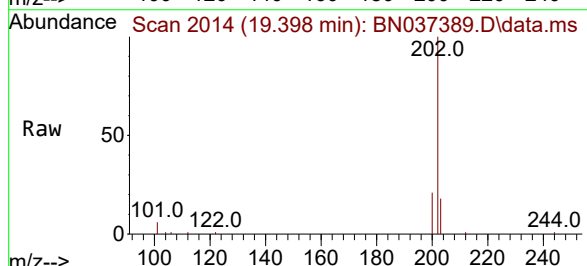
Tgt Ion:202 Resp: 12616

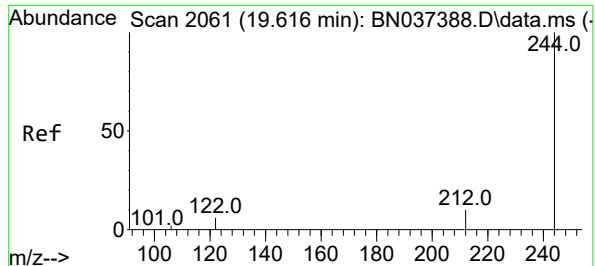
Ion Ratio Lower Upper

202 100

200 20.8 16.5 24.7

203 17.7 14.2 21.2

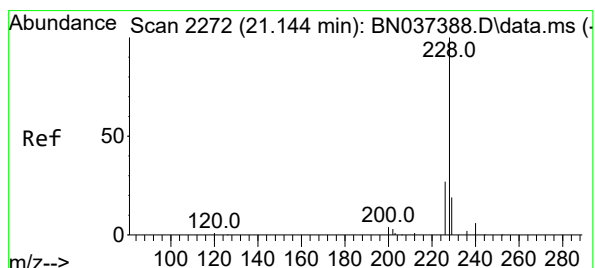
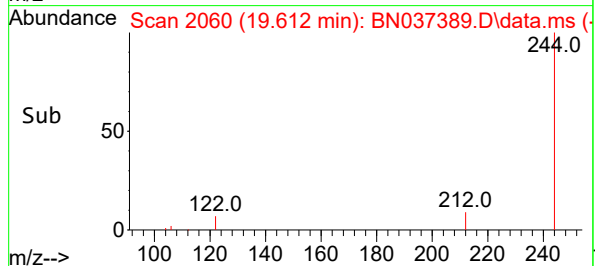
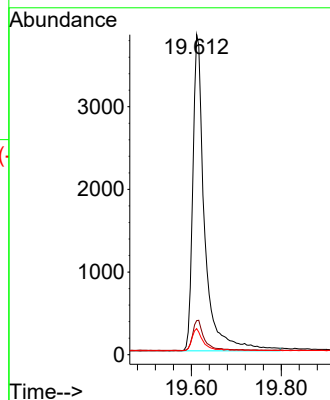
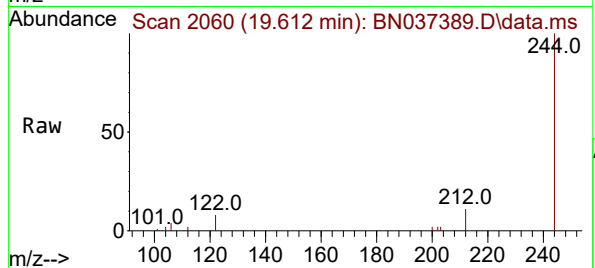




#31
Terphenyl-d14
Concen: 0.747 ng
RT: 19.612 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

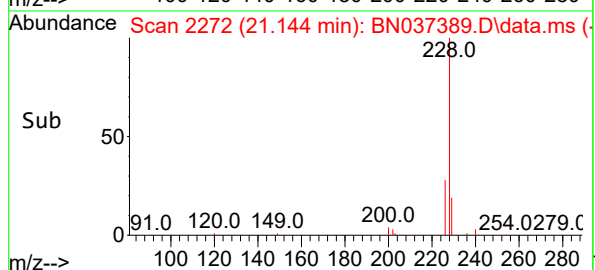
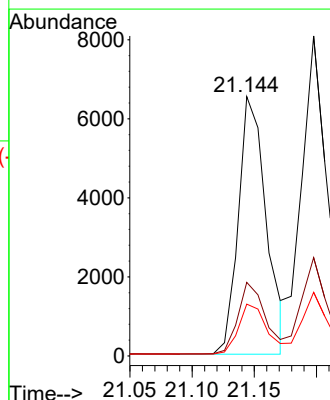
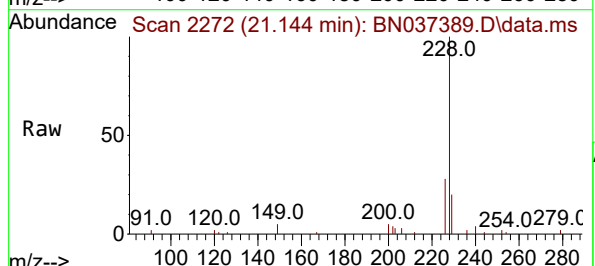
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

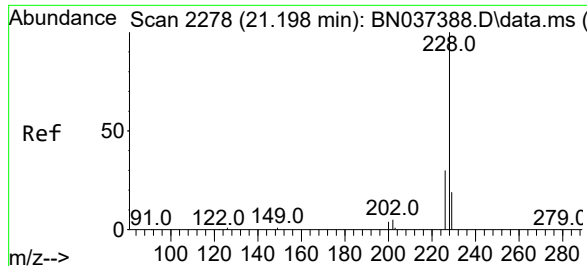
Tgt Ion:244 Resp: 7017
Ion Ratio Lower Upper
244 100
212 10.7 9.1 13.7
122 8.1 6.3 9.5



#32
Benzo(a)anthracene
Concen: 0.733 ng
RT: 21.144 min Scan# 2272
Delta R.T. 0.000 min
Lab File: BN037389.D
Acq: 26 Jun 2025 12:29

Tgt Ion:228 Resp: 10155
Ion Ratio Lower Upper
228 100
226 28.4 22.6 34.0
229 20.0 16.2 24.2





#33

Chrysene

Concen: 0.767 ng

RT: 21.198 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

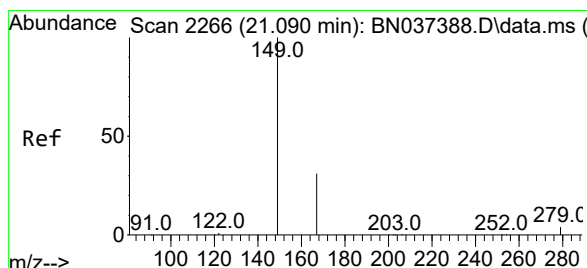
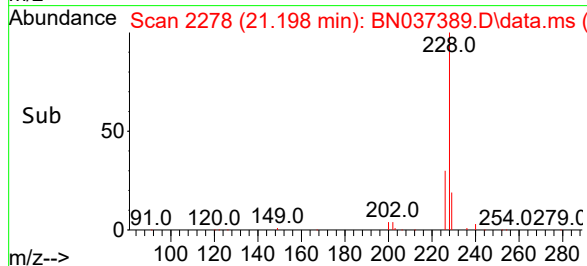
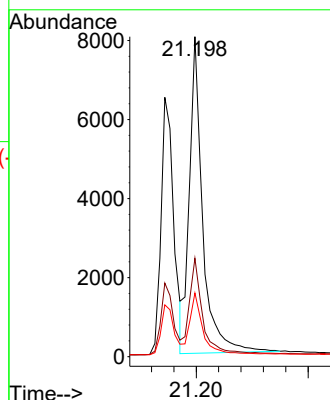
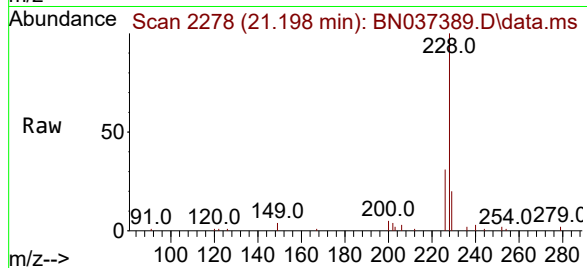
Tgt Ion:228 Resp: 13144

Ion Ratio Lower Upper

228 100

226 30.7 24.5 36.7

229 19.9 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.749 ng

RT: 21.090 min Scan# 2266

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

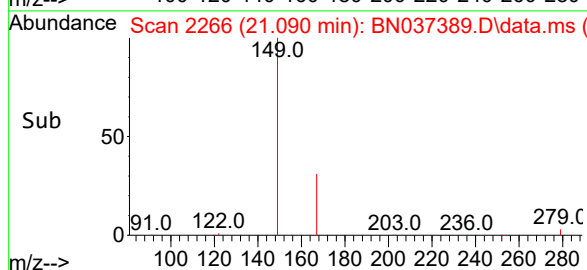
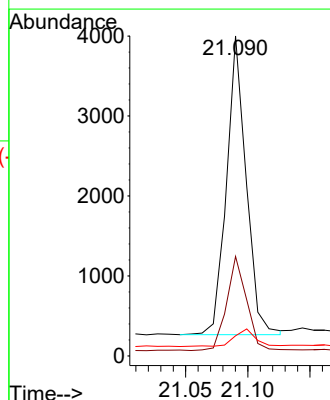
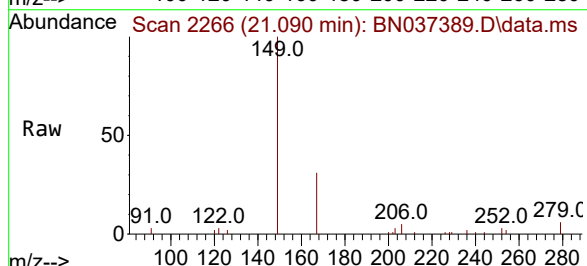
Tgt Ion:149 Resp: 4107

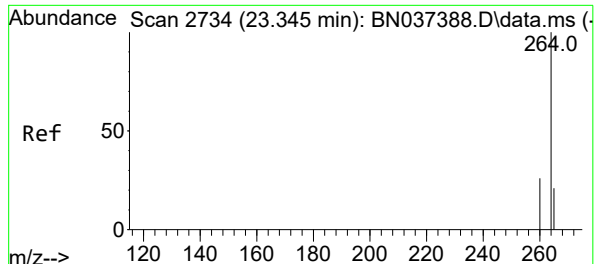
Ion Ratio Lower Upper

149 100

167 31.9 24.8 37.2

279 6.4 5.0 7.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.345 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037389.D

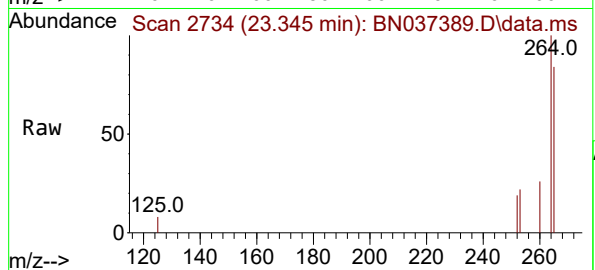
Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8



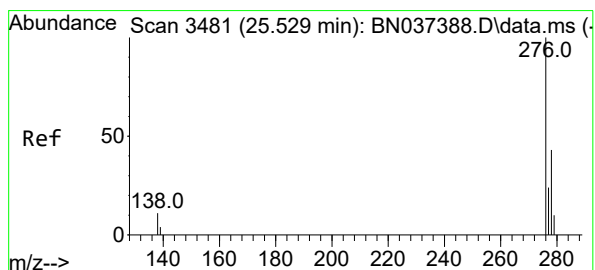
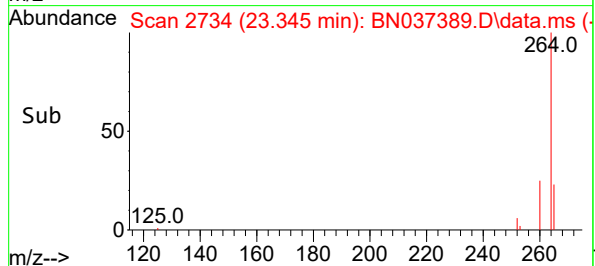
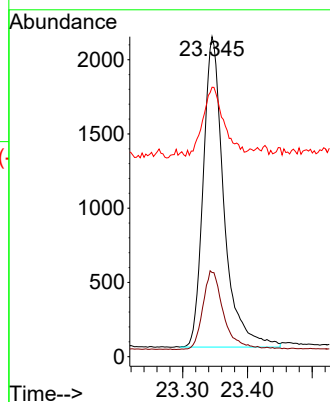
Tgt Ion:264 Resp: 4628

Ion Ratio Lower Upper

264 100

260 26.3 21.4 32.0

265 84.2 56.2 84.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.768 ng

RT: 25.529 min Scan# 3481

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

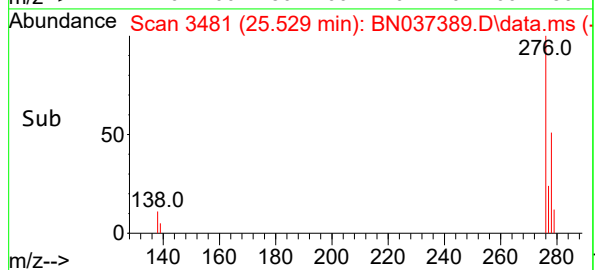
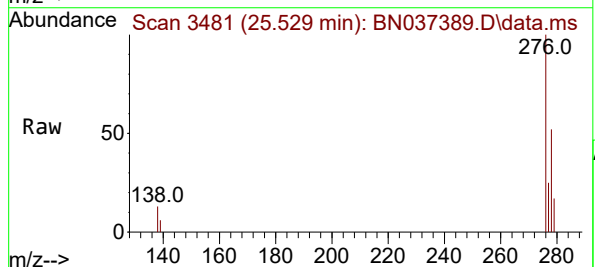
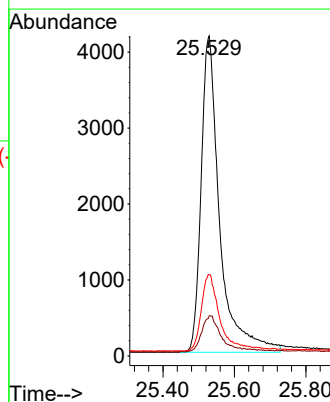
Tgt Ion:276 Resp: 14993

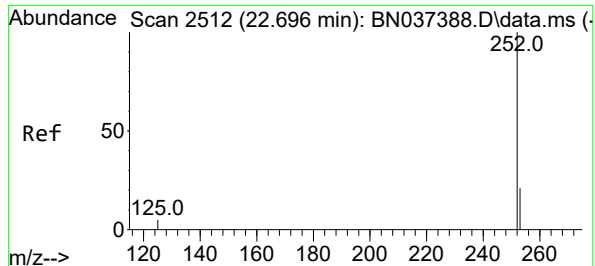
Ion Ratio Lower Upper

276 100

138 11.6 8.5 12.7

277 23.8 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.749 ng

RT: 22.693 min Scan# 2511

Delta R.T. -0.003 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8

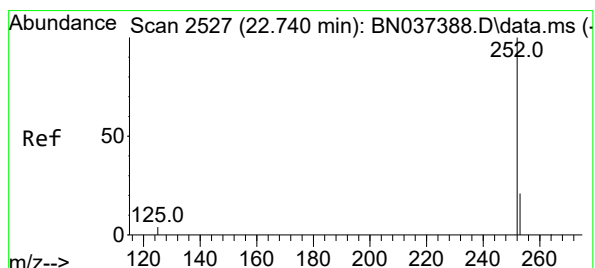
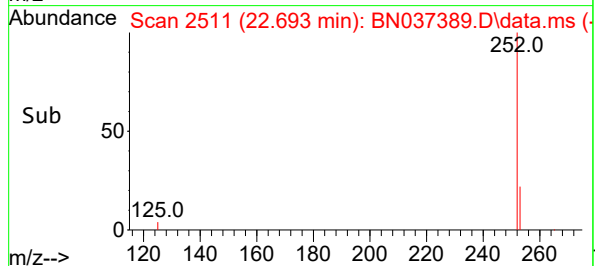
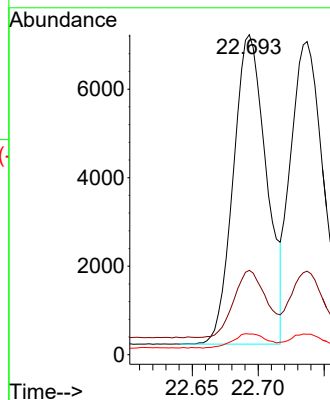
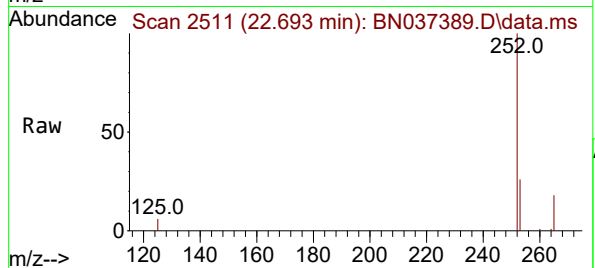
Tgt Ion:252 Resp: 12221

Ion Ratio Lower Upper

252 100

253 26.4 22.8 34.2

125 6.4 6.2 9.4



#38

Benzo(k)fluoranthene

Concen: 0.759 ng

RT: 22.737 min Scan# 2526

Delta R.T. -0.003 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

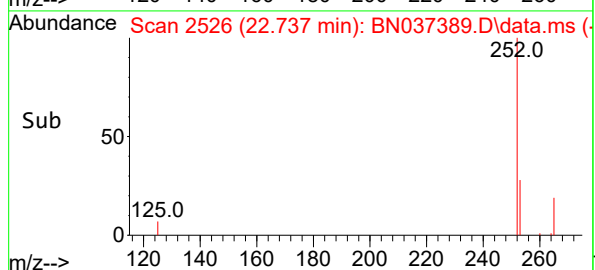
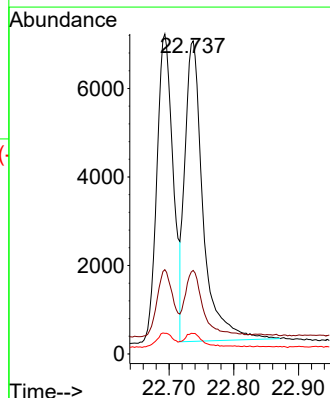
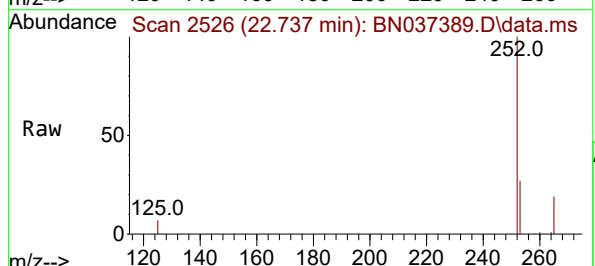
Tgt Ion:252 Resp: 13232

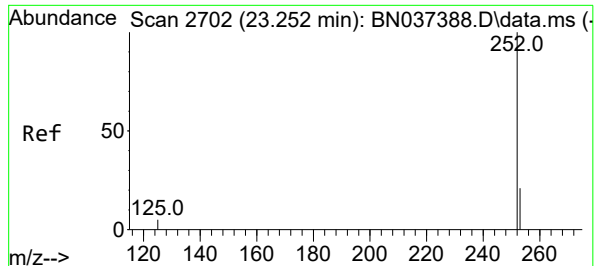
Ion Ratio Lower Upper

252 100

253 26.7 23.2 34.8

125 6.6 6.0 9.0





#39

Benzo(a)pyrene

Concen: 0.748 ng

RT: 23.252 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.8

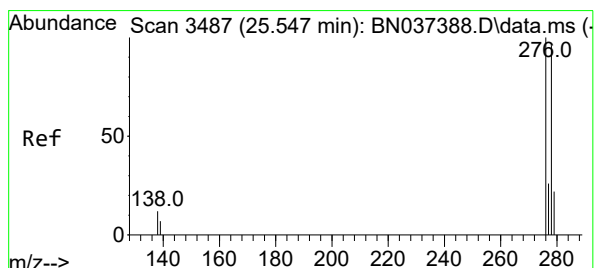
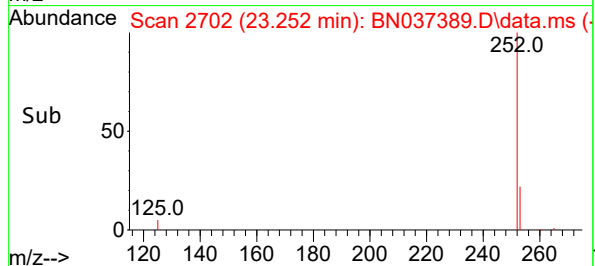
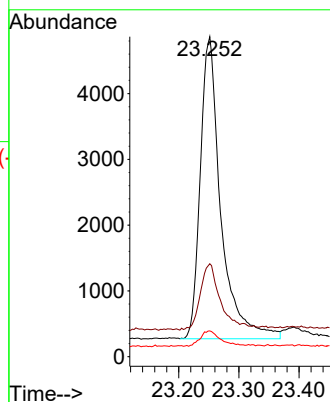
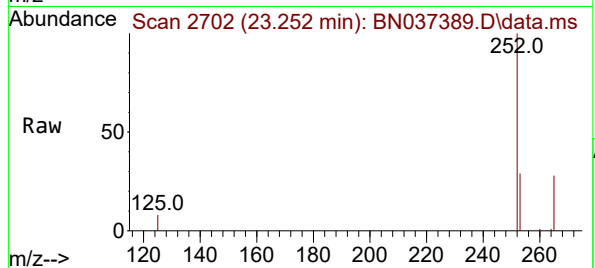
Tgt Ion:252 Resp: 10863

Ion Ratio Lower Upper

252 100

253 29.0 25.6 38.4

125 8.0 7.5 11.3



#40

Dibenzo(a,h)anthracene

Concen: 0.759 ng

RT: 25.547 min Scan# 3487

Delta R.T. 0.000 min

Lab File: BN037389.D

Acq: 26 Jun 2025 12:29

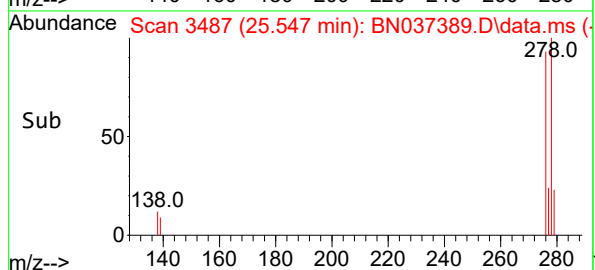
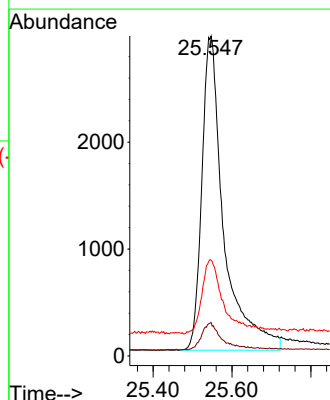
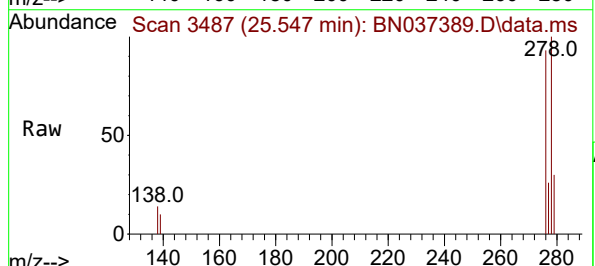
Tgt Ion:278 Resp: 11379

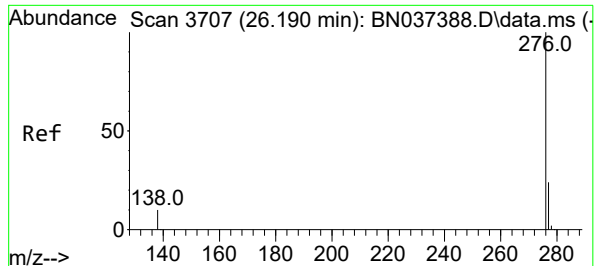
Ion Ratio Lower Upper

278 100

139 10.5 8.5 12.7

279 30.0 27.5 41.3





#41

Benzo(g,h,i)perylene

Concen: 0.756 ng

RT: 26.187 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037389.D

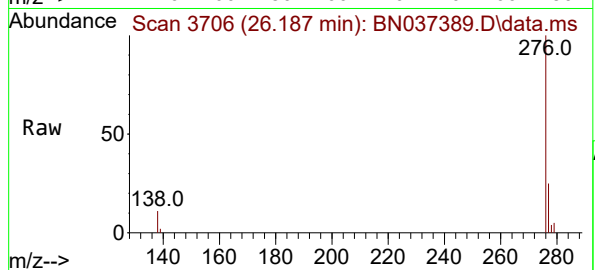
Acq: 26 Jun 2025 12:29

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.8



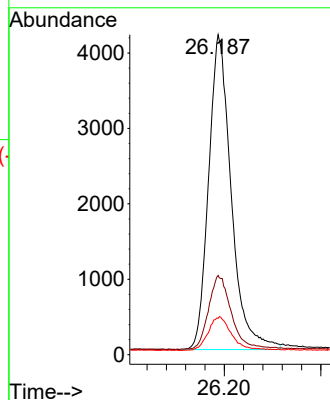
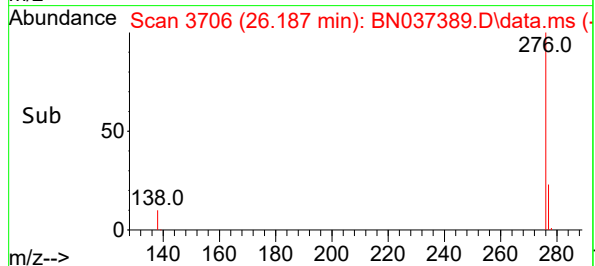
Tgt Ion:276 Resp: 13535

Ion Ratio Lower Upper

276 100

277 24.8 21.0 31.4

138 11.4 9.6 14.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
 Data File : BN037390.D
 Acq On : 26 Jun 2025 13:05
 Operator : RC/JU
 Sample : SSTDICC1.6
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC1.6

Quant Time: Jun 26 14:44:50 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 14:40:13 2025
 Response via : Initial Calibration

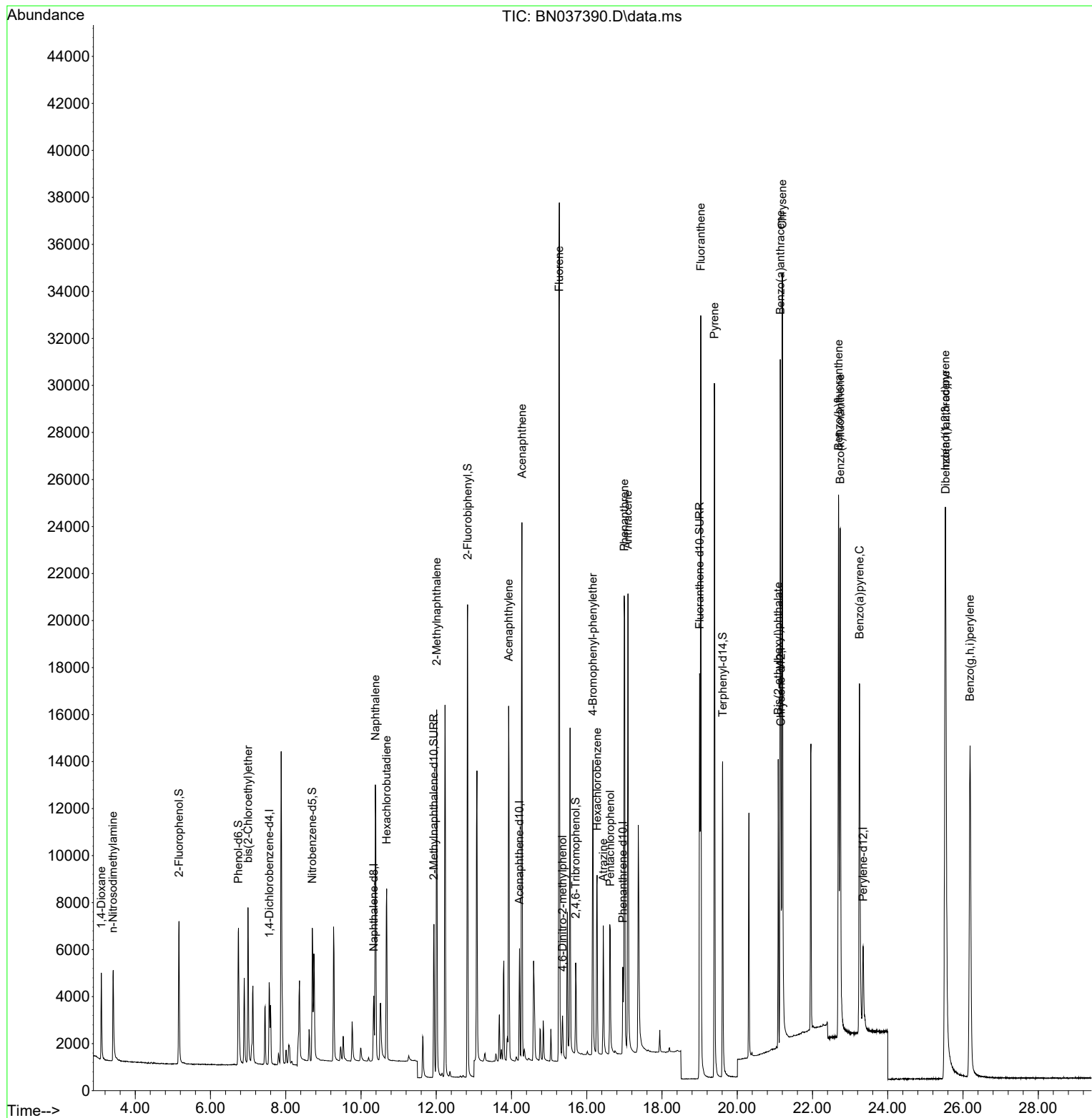
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.561	152	1757	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	3755	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	2497	0.400	ng	0.00
19) Phenanthrene-d10	16.959	188	5134	0.400	ng	0.00
29) Chrysene-d12	21.162	240	4846	0.400	ng	0.00
35) Perylene-d12	23.345	264	4921	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	5301	1.566	ng	0.00
5) Phenol-d6	6.745	99	5895	1.679	ng	0.00
8) Nitrobenzene-d5	8.707	82	5183	1.716	ng	-0.01
11) 2-Methylnaphthalene-d10	11.935	152	9434	1.624	ng	0.00
14) 2,4,6-Tribromophenol	15.705	330	2504	1.710	ng	-0.01
15) 2-Fluorobiphenyl	12.833	172	17962	1.666	ng	0.00
27) Fluoranthene-d10	18.998	212	23030	1.565	ng	0.00
31) Terphenyl-d14	19.612	244	17013	1.647	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.097	88	2649	1.682	ng	96
3) n-Nitrosodimethylamine	3.408	42	2708	1.646	ng	# 97
6) bis(2-Chloroethyl)ether	6.997	93	5373	1.721	ng	97
9) Naphthalene	10.383	128	15743	1.629	ng	97
10) Hexachlorobutadiene	10.682	225	6333	1.651	ng	# 98
12) 2-Methylnaphthalene	12.011	142	11211	1.685	ng	97
16) Acenaphthylene	13.925	152	17120	1.653	ng	100
17) Acenaphthene	14.277	154	11218	1.659	ng	98
18) Fluorene	15.272	166	16008	1.676	ng	100
20) 4,6-Dinitro-2-methylph...	15.357	198	2324	1.762	ng	# 63
21) 4-Bromophenyl-phenylether	16.165	248	6221	1.718	ng	# 92
22) Hexachlorobenzene	16.276	284	6380	1.638	ng	98
23) Atrazine	16.438	200	4771	1.663	ng	98
24) Pentachlorophenol	16.624	266	3391	1.612	ng	96
25) Phenanthrene	16.996	178	24063	1.663	ng	99
26) Anthracene	17.096	178	22103	1.662	ng	100
28) Fluoranthene	19.031	202	30535	1.653	ng	99
30) Pyrene	19.393	202	30249	1.650	ng	100
32) Benzo(a)anthracene	21.144	228	25546	1.678	ng	99
33) Chrysene	21.198	228	30118	1.598	ng	99
34) Bis(2-ethylhexyl)phtha...	21.090	149	9332	1.548	ng	99
36) Indeno(1,2,3-cd)pyrene	25.529	276	35151	1.694	ng	98
37) Benzo(b)fluoranthene	22.690	252	28814	1.661	ng	# 91
38) Benzo(k)fluoranthene	22.737	252	30557	1.648	ng	# 91
39) Benzo(a)pyrene	23.249	252	25315	1.640	ng	# 88
40) Dibenzo(a,h)anthracene	25.538	278	27440	1.722	ng	# 87
41) Benzo(g,h,i)perylene	26.187	276	31821	1.671	ng	97

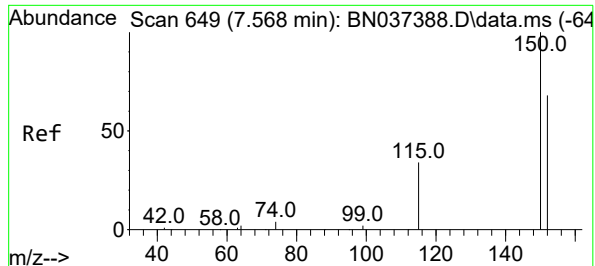
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037390.D
Acq On : 26 Jun 2025 13:05
Operator : RC/JU
Sample : SSTDIC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDIC1.6

Quant Time: Jun 26 14:44:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 14:40:13 2025
Response via : Initial Calibration

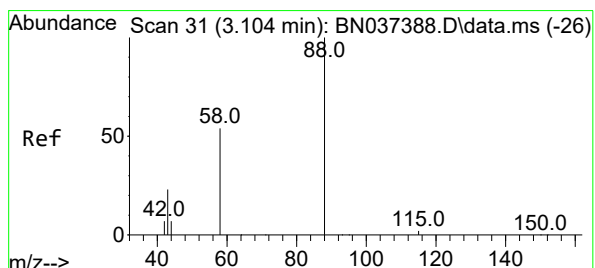
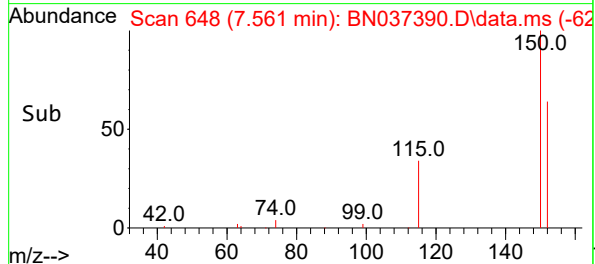
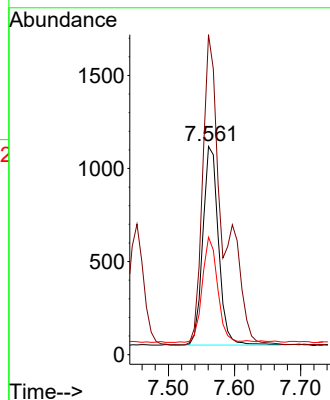
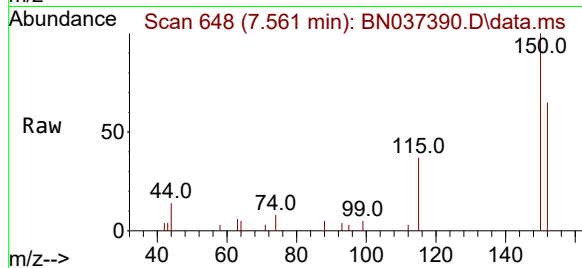




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.561 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

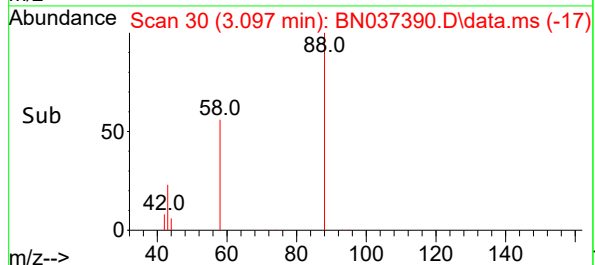
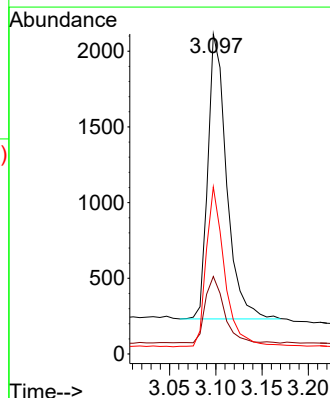
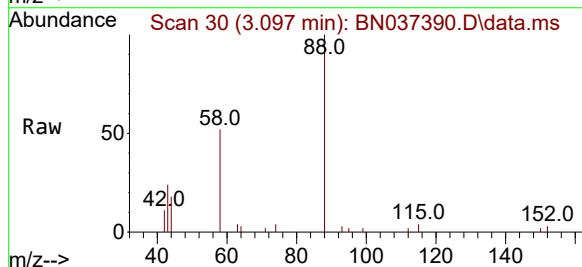
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

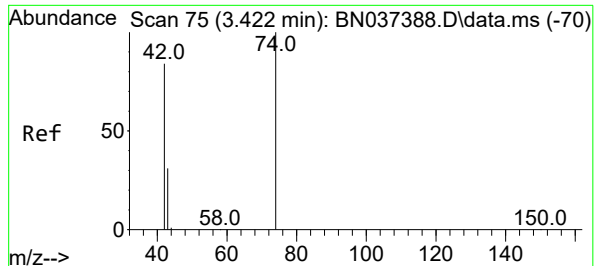
Tgt Ion:152 Resp: 1757
Ion Ratio Lower Upper
152 100
150 153.6 116.2 174.2
115 56.4 42.9 64.3



#2
1,4-Dioxane
Concen: 1.682 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion: 88 Resp: 2649
Ion Ratio Lower Upper
88 100
43 23.8 21.6 32.4
58 55.3 45.9 68.9

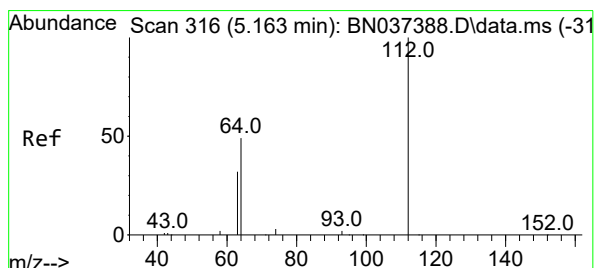
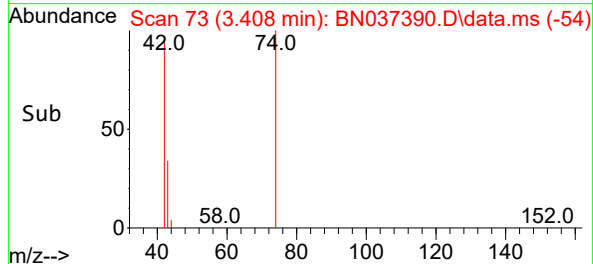
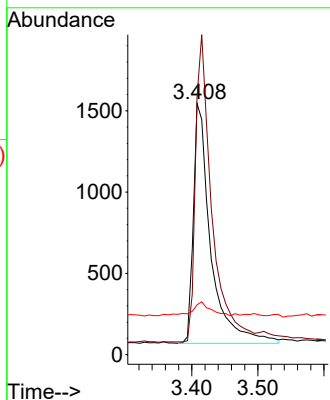
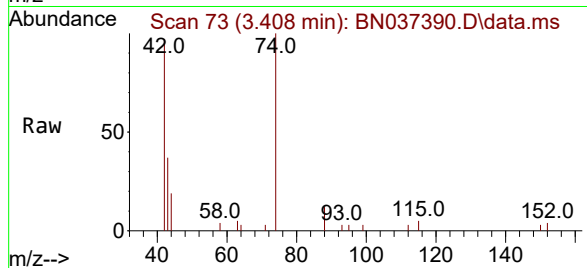




#3
n-Nitrosodimethylamine
Concen: 1.646 ng
RT: 3.408 min Scan# 75
Delta R.T. -0.014 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

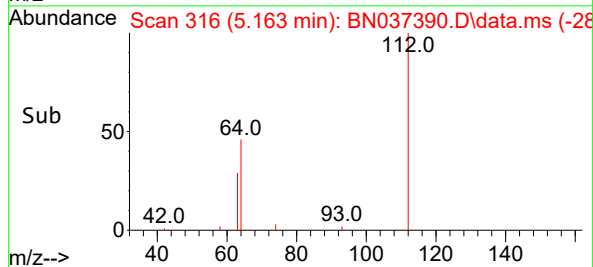
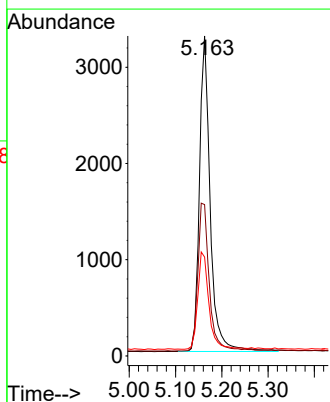
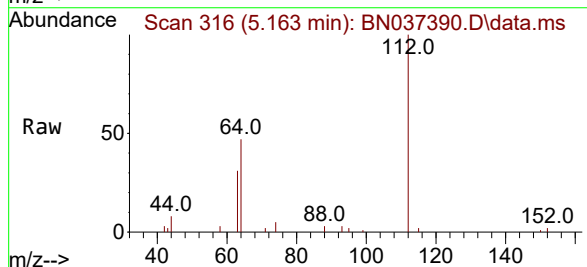
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

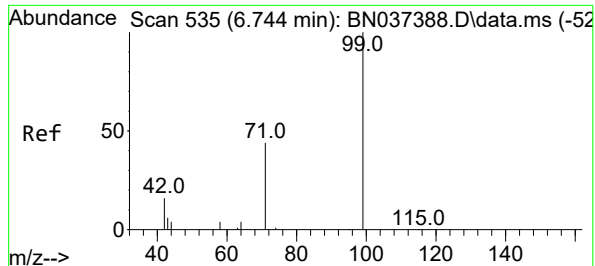
Tgt Ion: 42 Resp: 2708
Ion Ratio Lower Upper
42 100
74 125.6 97.8 146.8
44 7.3 8.7 13.1#



#4
2-Fluorophenol
Concen: 1.566 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion: 112 Resp: 5301
Ion Ratio Lower Upper
112 100
64 50.2 40.3 60.5
63 32.2 26.1 39.1

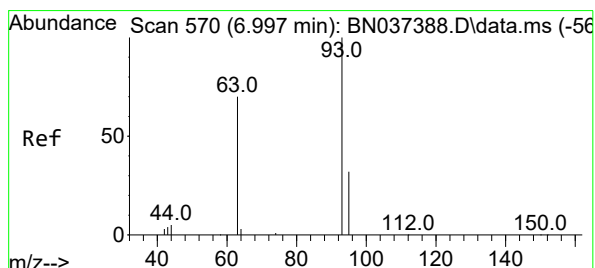
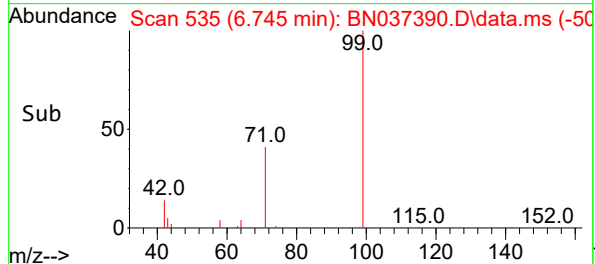
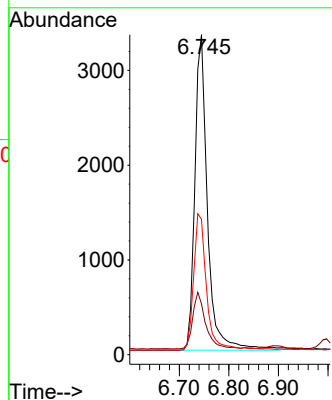
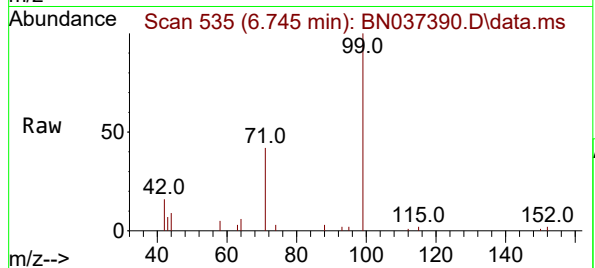




#5
Phenol-d6
Concen: 1.679 ng
RT: 6.745 min Scan# 51
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

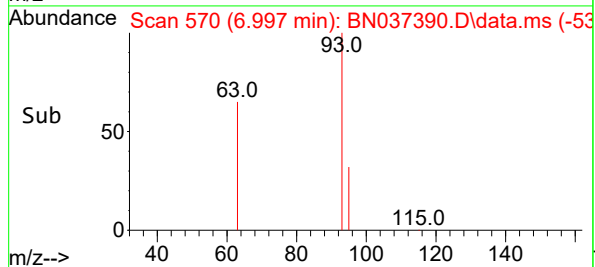
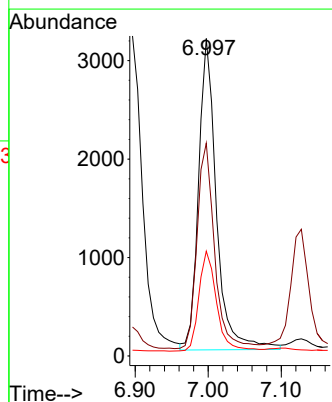
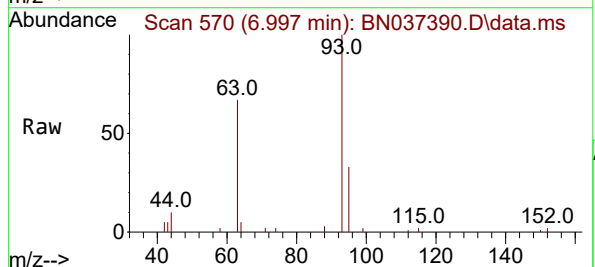
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

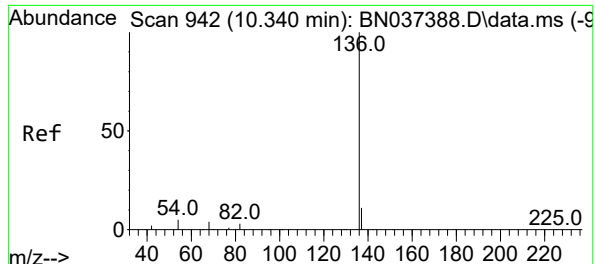
Tgt Ion: 99 Resp: 5895
Ion Ratio Lower Upper
99 100
42 18.4 15.6 23.4
71 44.7 35.8 53.8



#6
bis(2-Chloroethyl)ether
Concen: 1.721 ng
RT: 6.997 min Scan# 570
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion: 93 Resp: 5373
Ion Ratio Lower Upper
93 100
63 64.6 49.6 74.4
95 31.7 23.9 35.9

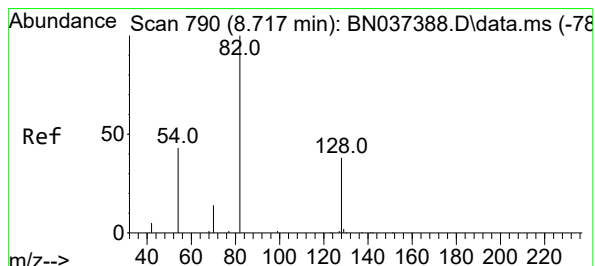
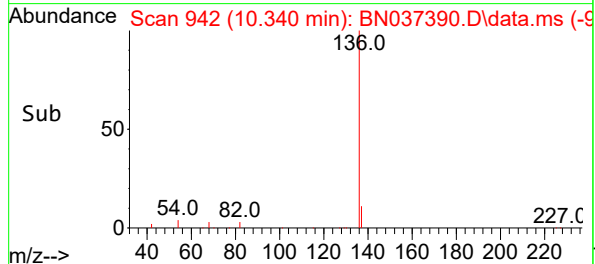
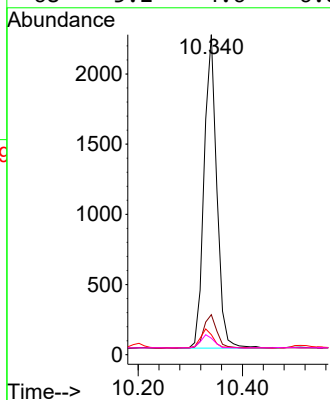
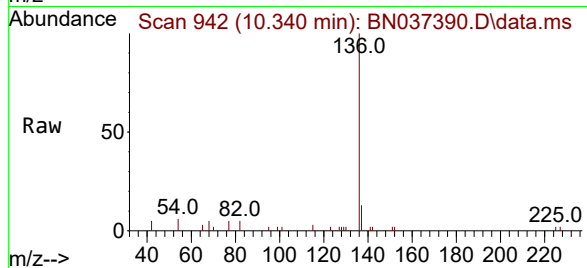




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

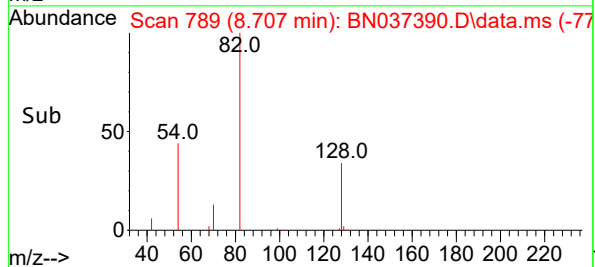
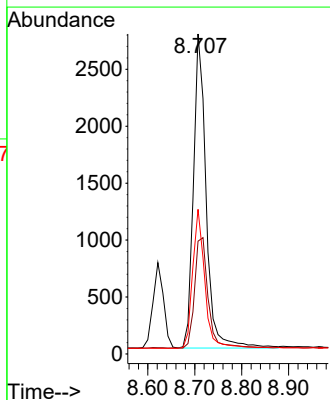
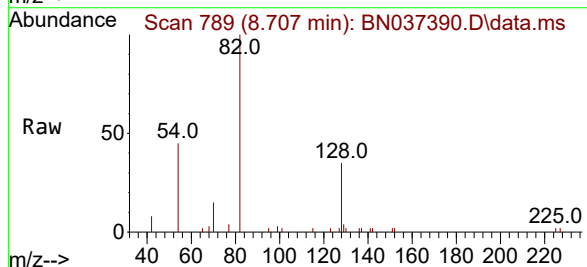
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

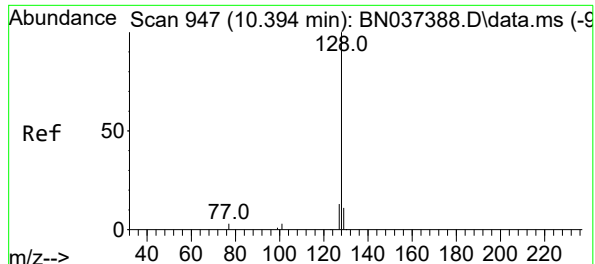
Tgt Ion:	136	Resp:	3755
Ion	Ratio	Lower	Upper
136	100		
137	12.5	10.4	15.6
54	6.3	5.6	8.4
68	5.2	4.6	6.8



#8
Nitrobenzene-d5
Concen: 1.716 ng
RT: 8.707 min Scan# 789
Delta R.T. -0.011 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:	82	Resp:	5183
Ion	Ratio	Lower	Upper
82	100		
128	35.3	34.0	51.0
54	45.2	37.7	56.5

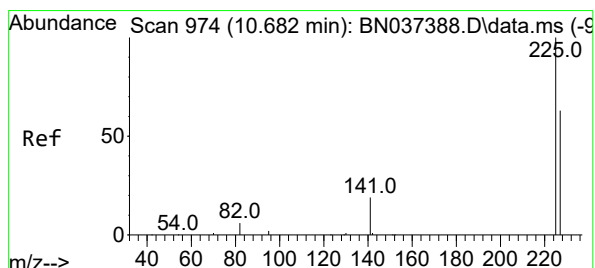
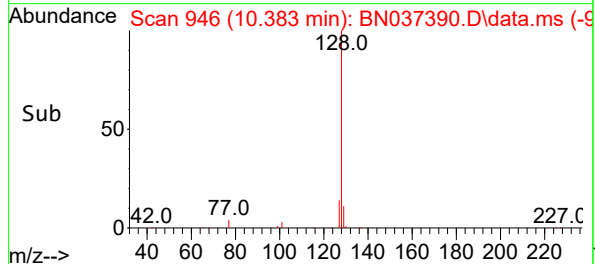
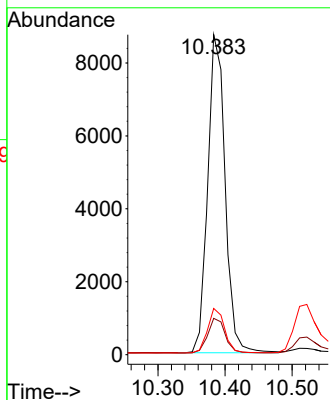
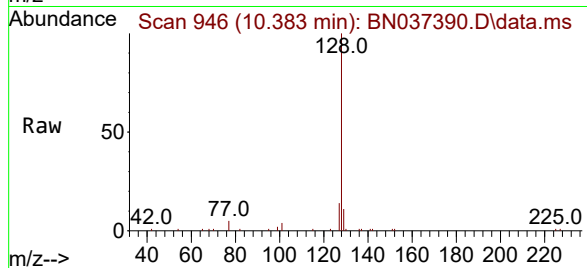




#9
Naphthalene
Concen: 1.629 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.011 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

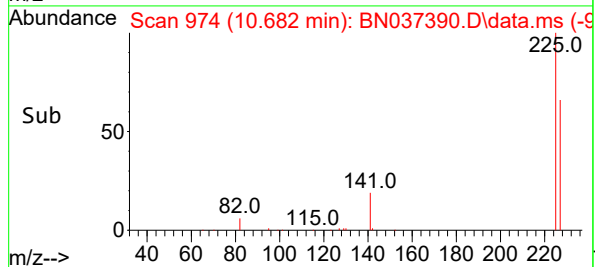
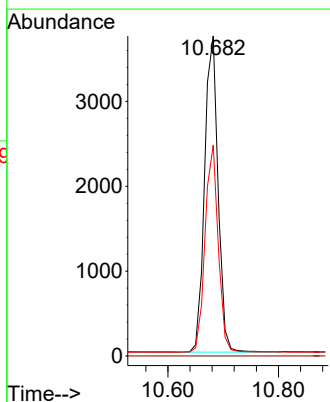
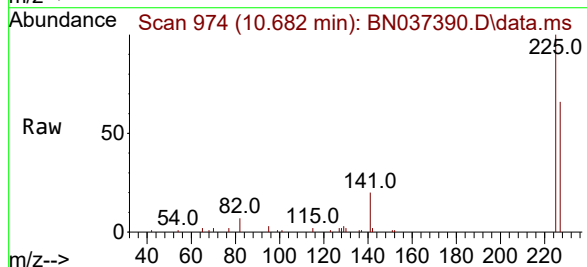
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

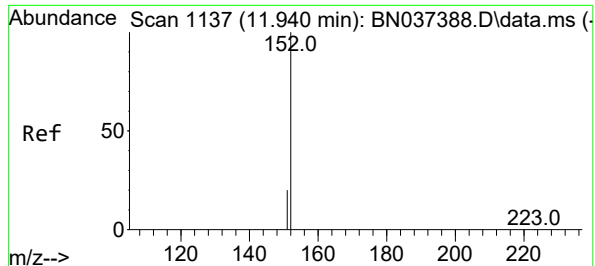
Tgt Ion:128 Resp: 15743
Ion Ratio Lower Upper
128 100
129 11.4 10.4 15.6
127 14.4 12.2 18.4



#10
Hexachlorobutadiene
Concen: 1.651 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:225 Resp: 6333
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.9 49.9 74.9

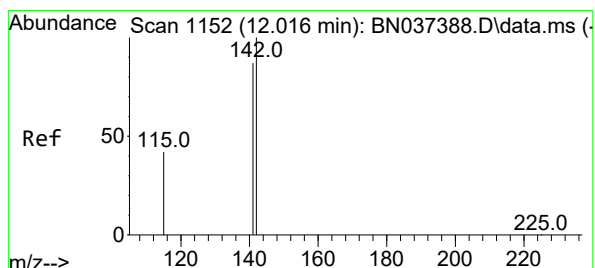
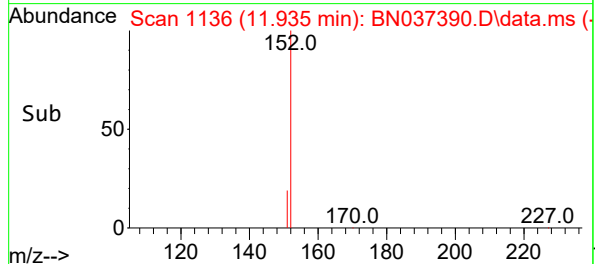
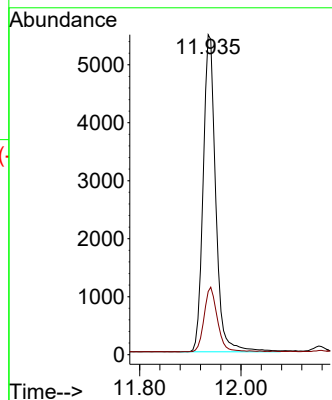
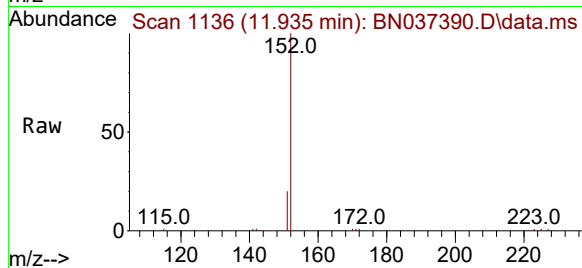




#11
2-Methylnaphthalene-d10
Concen: 1.624 ng
RT: 11.935 min Scan# 1136
Delta R.T. -0.005 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

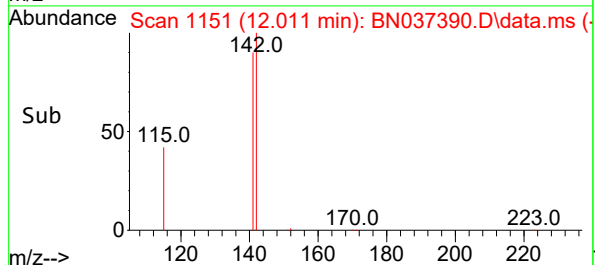
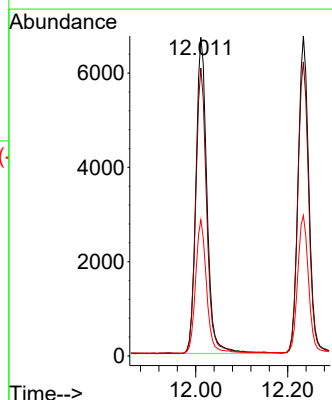
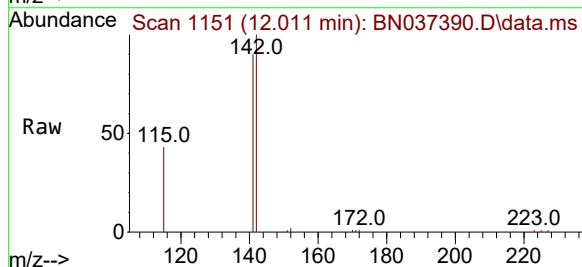
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

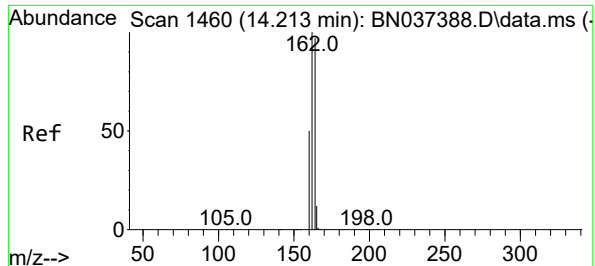
Tgt Ion:152 Resp: 9434
Ion Ratio Lower Upper
152 100
151 21.5 18.4 27.6



#12
2-Methylnaphthalene
Concen: 1.685 ng
RT: 12.011 min Scan# 1151
Delta R.T. -0.005 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:142 Resp: 11211
Ion Ratio Lower Upper
142 100
141 90.4 70.1 105.1
115 42.7 35.8 53.6

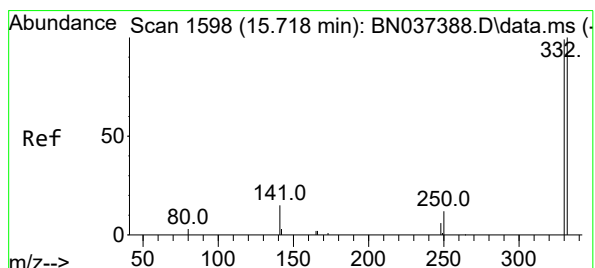
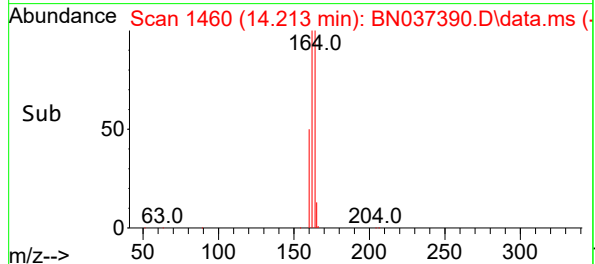
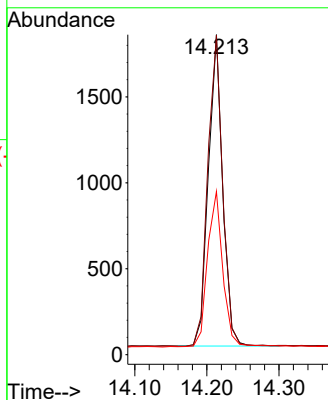
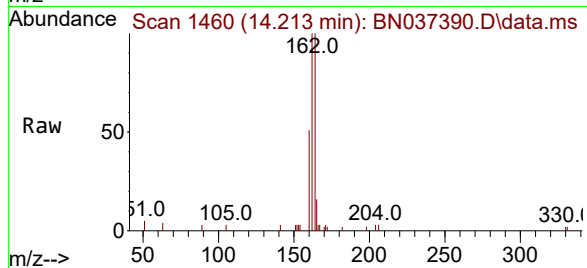




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

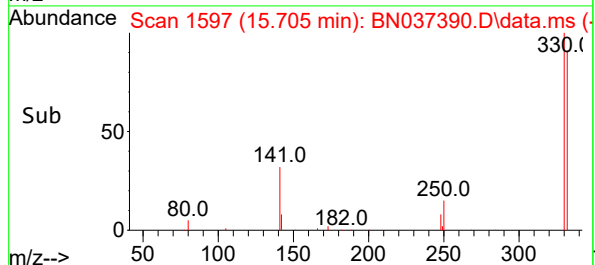
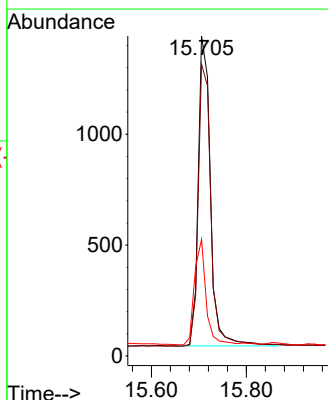
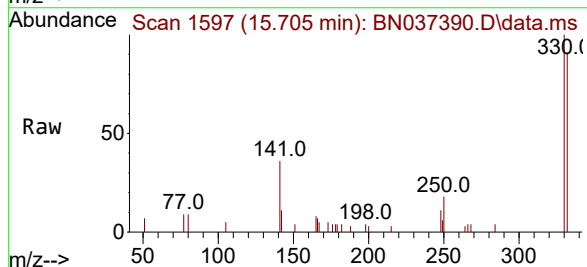
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

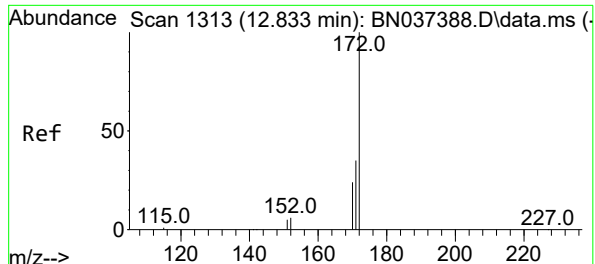
Tgt Ion:164 Resp: 2497
Ion Ratio Lower Upper
164 100
162 99.8 82.6 123.8
160 51.0 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 1.710 ng
RT: 15.705 min Scan# 1597
Delta R.T. -0.012 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:330 Resp: 2504
Ion Ratio Lower Upper
330 100
332 94.9 77.8 116.8
141 31.8 24.0 36.0





#15

2-Fluorobiphenyl

Concen: 1.666 ng

RT: 12.833 min Scan# 1313

Delta R.T. 0.000 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

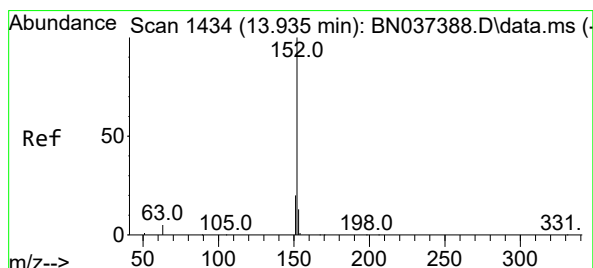
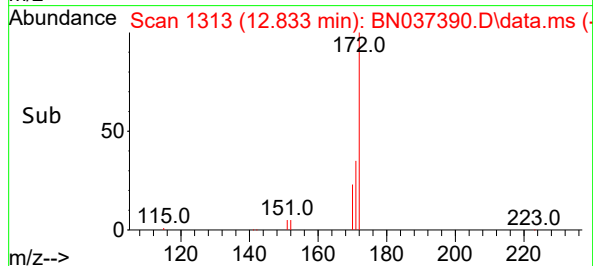
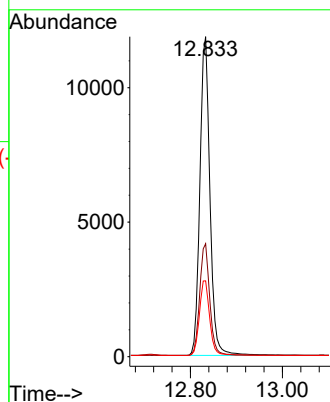
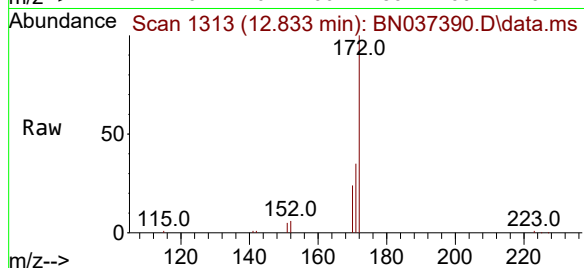
Tgt Ion:172 Resp: 17962

Ion Ratio Lower Upper

172 100

171 35.3 28.8 43.2

170 23.7 20.3 30.5



#16

Acenaphthylene

Concen: 1.653 ng

RT: 13.925 min Scan# 1433

Delta R.T. -0.011 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

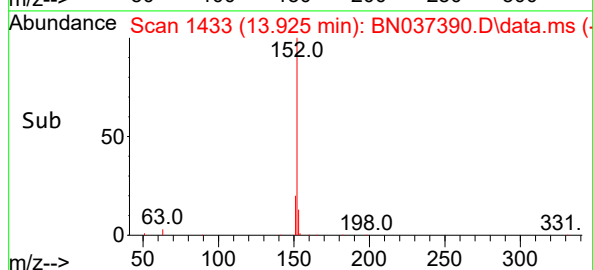
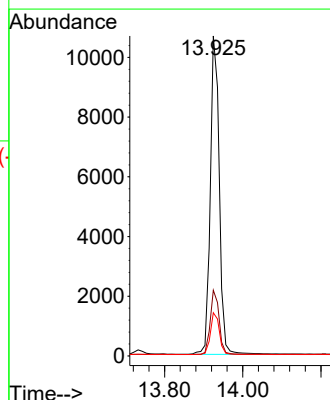
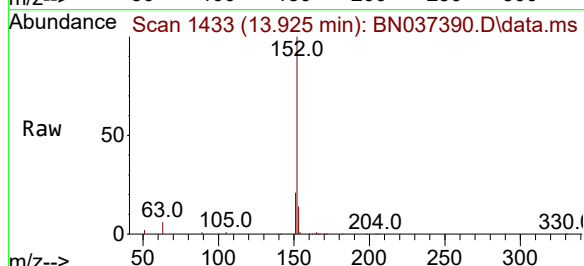
Tgt Ion:152 Resp: 17120

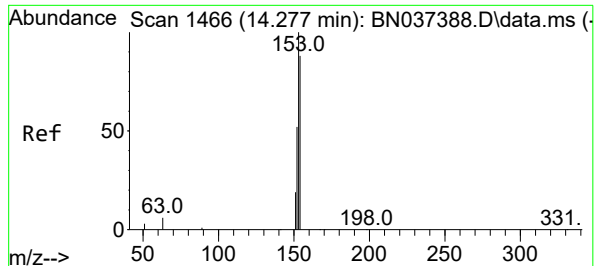
Ion Ratio Lower Upper

152 100

151 19.9 15.8 23.6

153 13.1 10.3 15.5





#17

Acenaphthene

Concen: 1.659 ng

RT: 14.277 min Scan# 1466

Delta R.T. 0.000 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

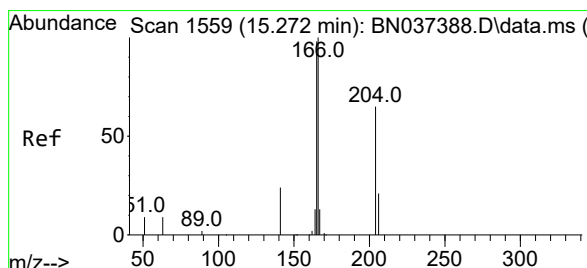
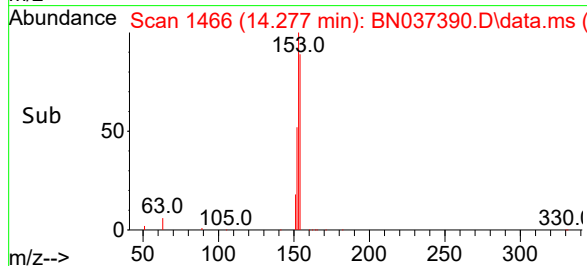
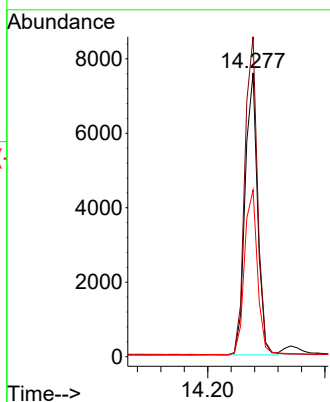
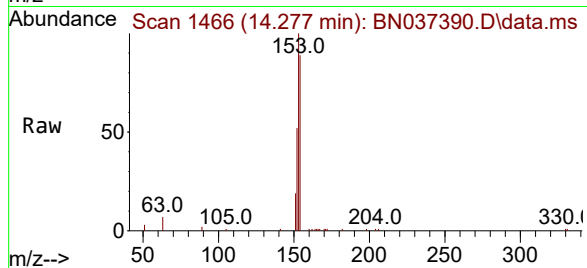
Tgt Ion:154 Resp: 11218

Ion Ratio Lower Upper

154 100

153 115.8 94.6 141.8

152 61.2 50.2 75.2



#18

Fluorene

Concen: 1.676 ng

RT: 15.272 min Scan# 1559

Delta R.T. 0.000 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

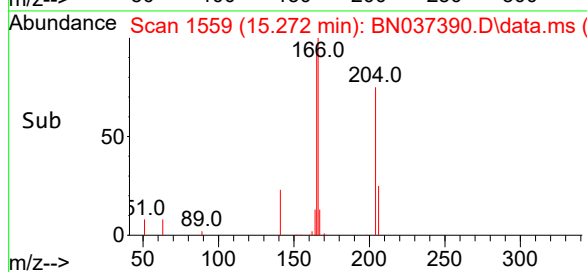
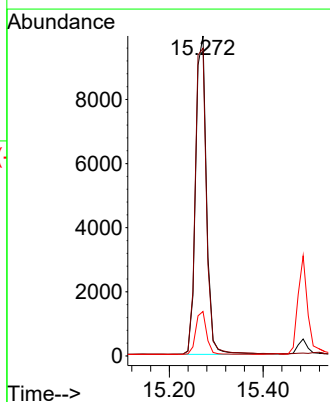
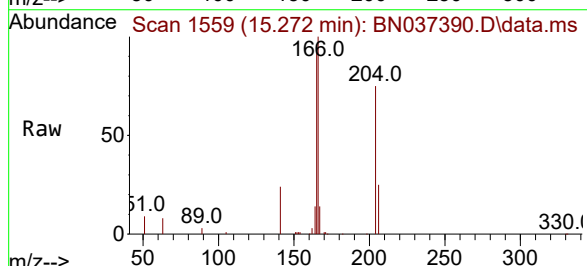
Tgt Ion:166 Resp: 16008

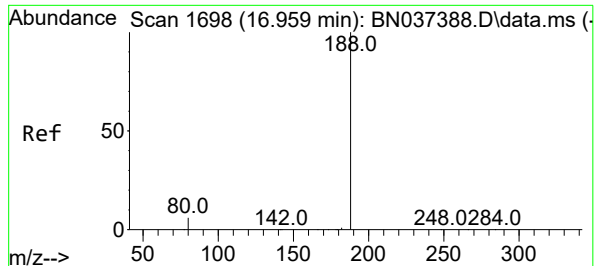
Ion Ratio Lower Upper

166 100

165 99.2 79.4 119.2

167 13.5 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.959 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

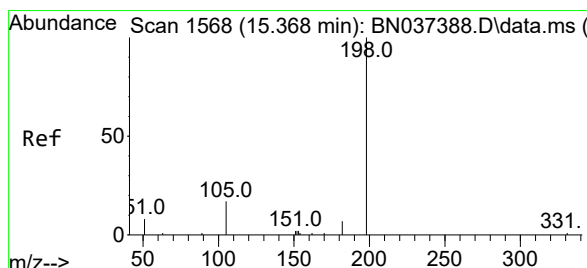
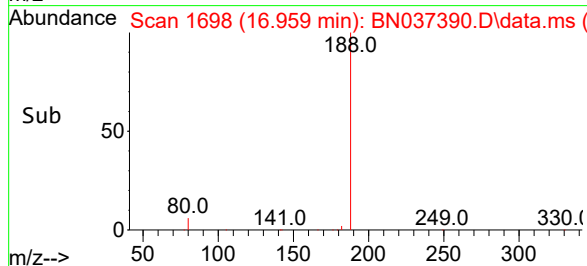
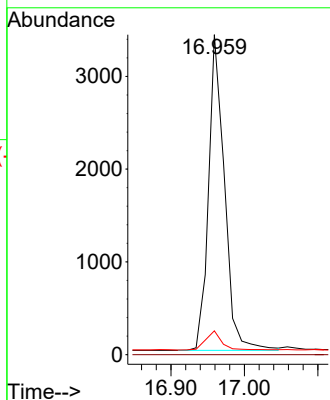
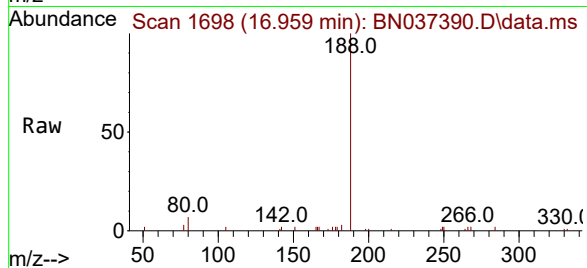
Tgt Ion:188 Resp: 5134

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.4 6.2 9.4



#20

4,6-Dinitro-2-methylphenol

Concen: 1.762 ng

RT: 15.357 min Scan# 1567

Delta R.T. -0.011 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

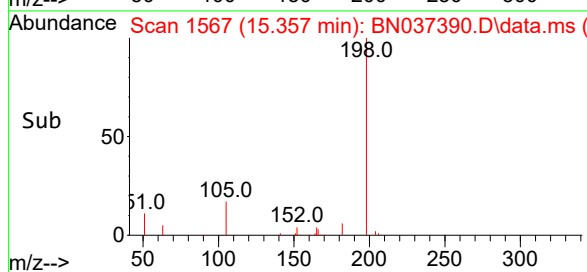
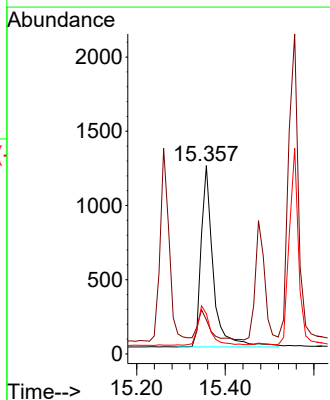
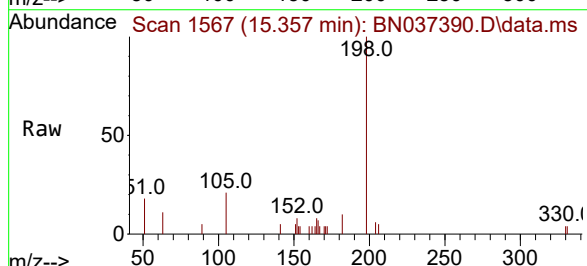
Tgt Ion:198 Resp: 2324

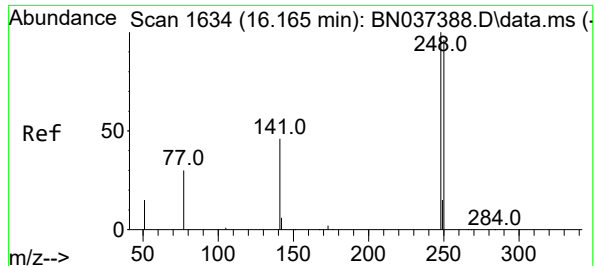
Ion Ratio Lower Upper

198 100

51 18.0 38.8 58.2#

105 21.3 29.8 44.6#

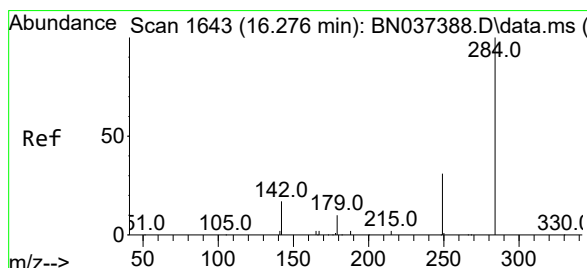
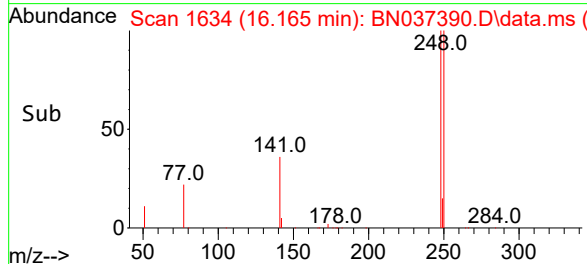
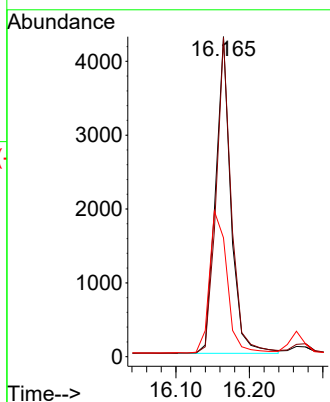
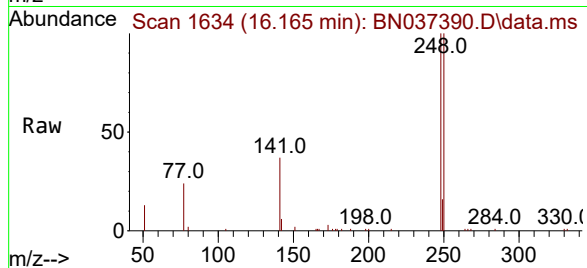




#21
4-Bromophenyl-phenylether
Concen: 1.718 ng
RT: 16.165 min Scan# 1634
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

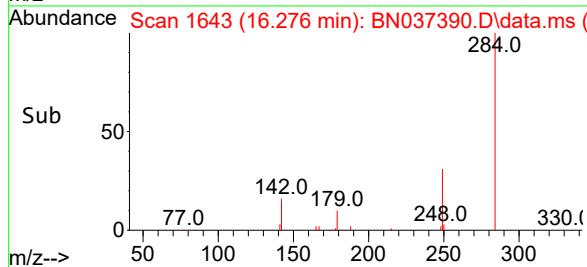
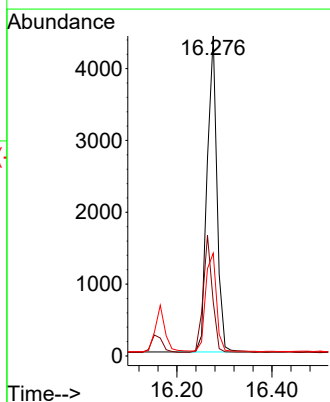
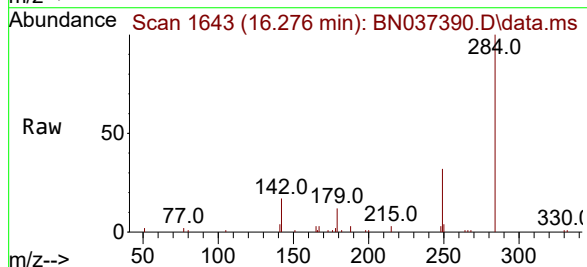
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

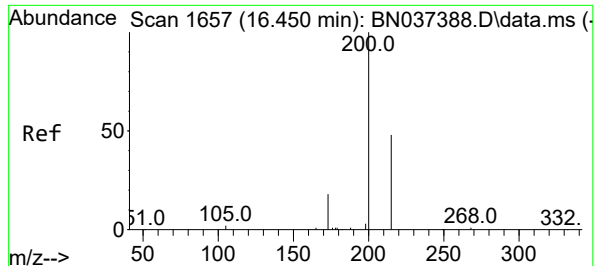
Tgt Ion	Ratio	Lower	Upper
248	100		
250	99.7	77.0	115.4
141	37.2	38.7	58.1#



#22
Hexachlorobenzene
Concen: 1.638 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.9	27.2	40.8
249	34.5	26.7	40.1

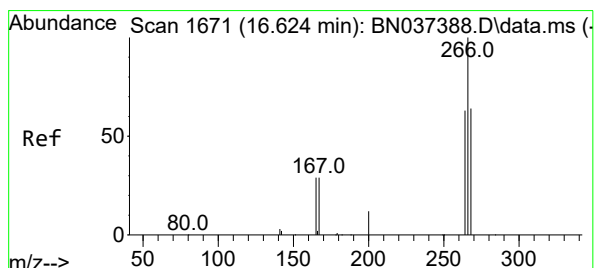
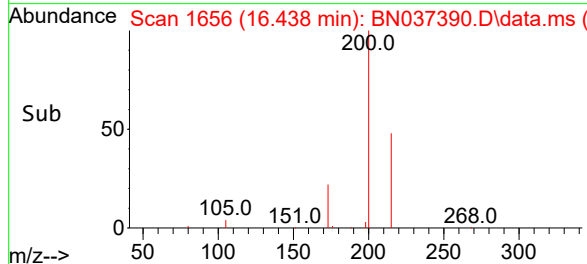
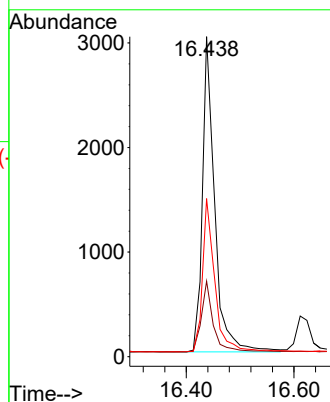
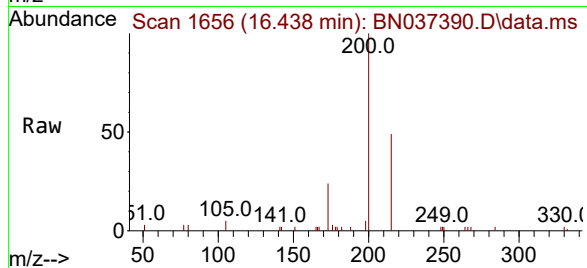




#23
Atrazine
Concen: 1.663 ng
RT: 16.438 min Scan# 1656
Delta R.T. -0.012 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

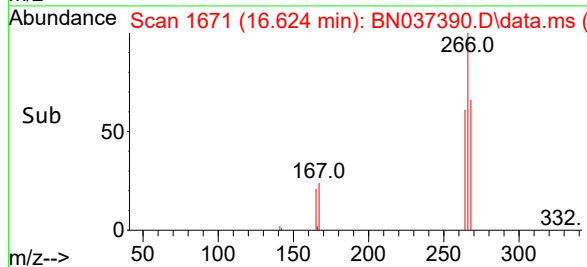
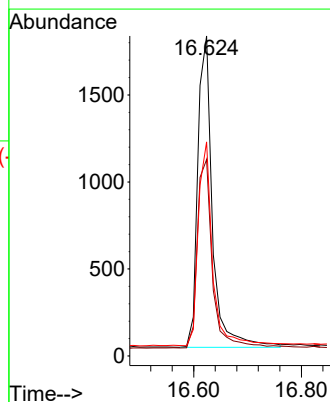
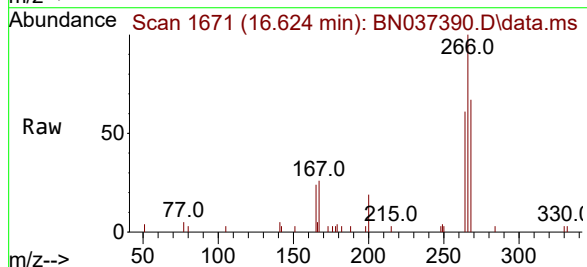
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

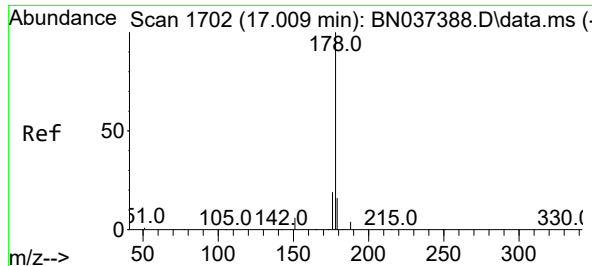
Tgt Ion:200 Resp: 4771
Ion Ratio Lower Upper
200 100
173 23.6 19.0 28.6
215 49.4 41.3 61.9



#24
Pentachlorophenol
Concen: 1.612 ng
RT: 16.624 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:266 Resp: 3391
Ion Ratio Lower Upper
266 100
264 63.2 49.2 73.8
268 63.9 54.2 81.4

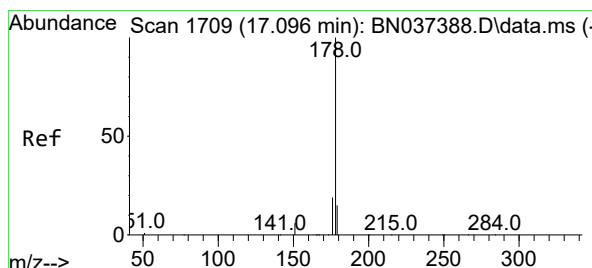
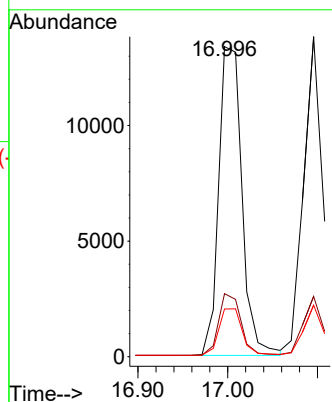
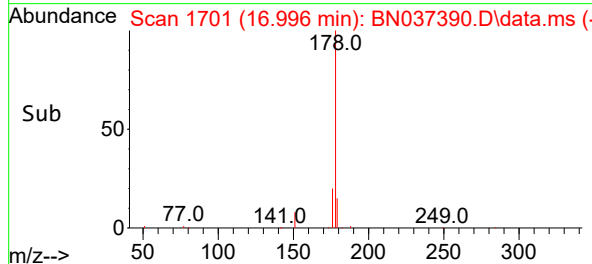
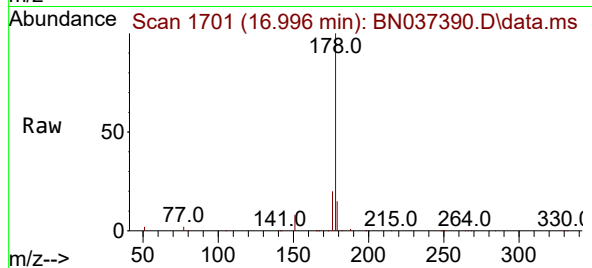




#25
Phenanthrene
Concen: 1.663 ng
RT: 16.996 min Scan# 1701
Delta R.T. -0.012 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

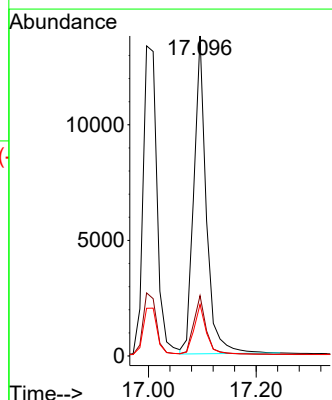
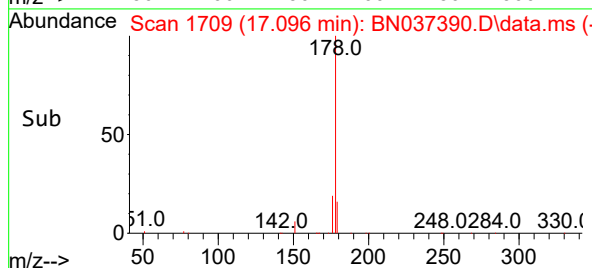
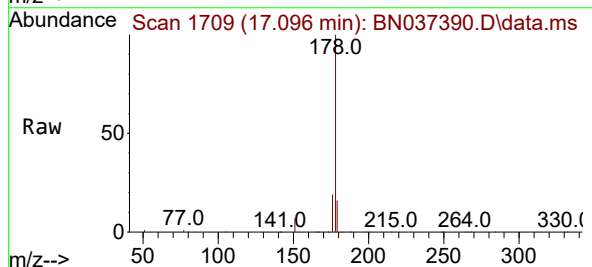
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

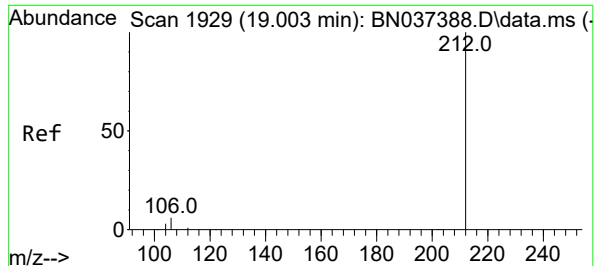
Tgt Ion:178 Resp: 24063
Ion Ratio Lower Upper
178 100
176 19.3 15.6 23.4
179 15.2 12.8 19.2



#26
Anthracene
Concen: 1.662 ng
RT: 17.096 min Scan# 1709
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:178 Resp: 22103
Ion Ratio Lower Upper
178 100
176 18.7 14.9 22.3
179 15.7 12.4 18.6





#27

Fluoranthene-d10

Concen: 1.565 ng

RT: 18.998 min Scan# 1929

Delta R.T. -0.005 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

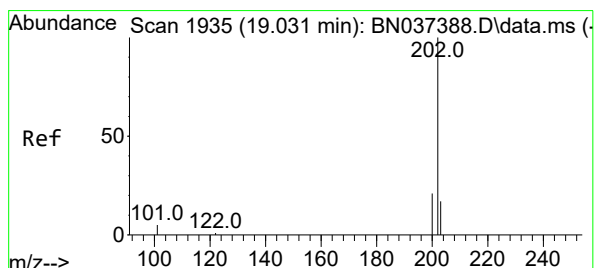
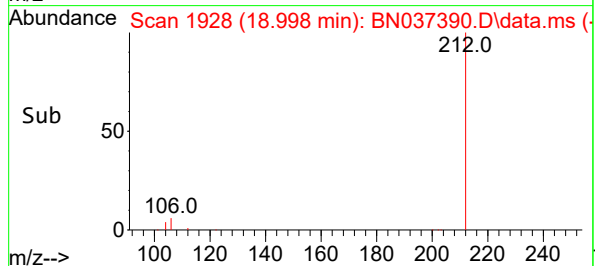
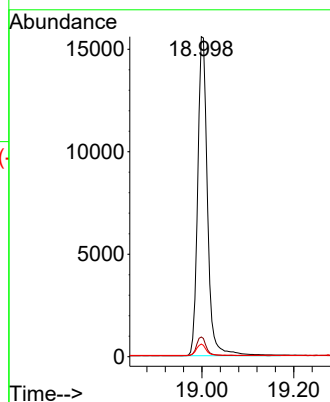
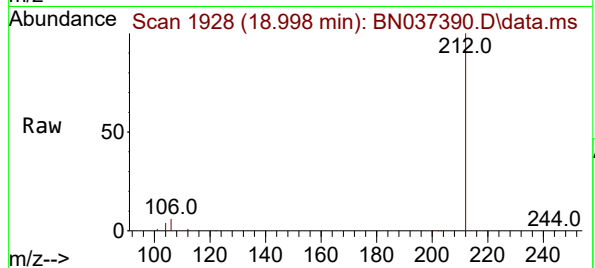
Tgt Ion:212 Resp: 23030

Ion Ratio Lower Upper

212 100

106 5.8 4.5 6.7

104 3.6 2.7 4.1



#28

Fluoranthene

Concen: 1.653 ng

RT: 19.031 min Scan# 1935

Delta R.T. 0.000 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

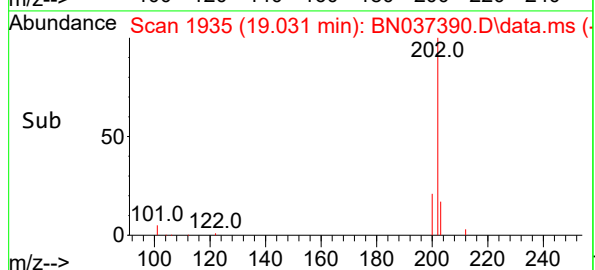
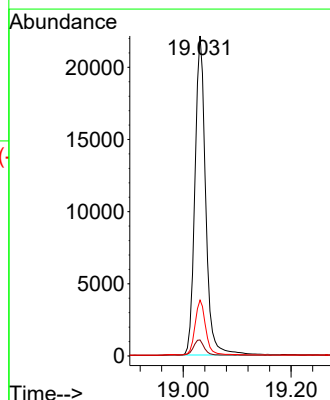
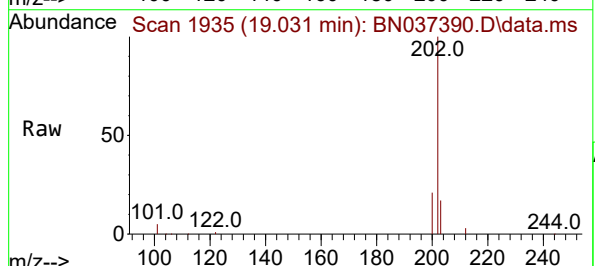
Tgt Ion:202 Resp: 30535

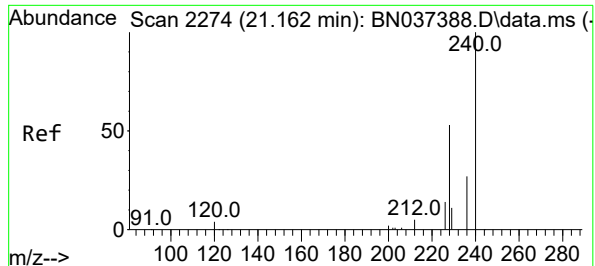
Ion Ratio Lower Upper

202 100

101 5.1 3.8 5.6

203 17.1 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

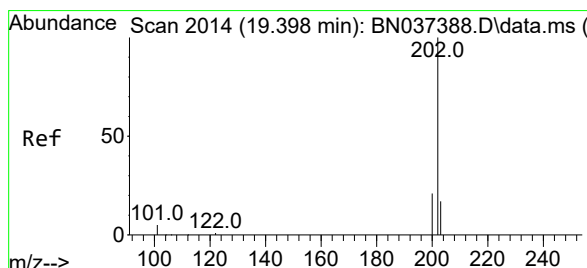
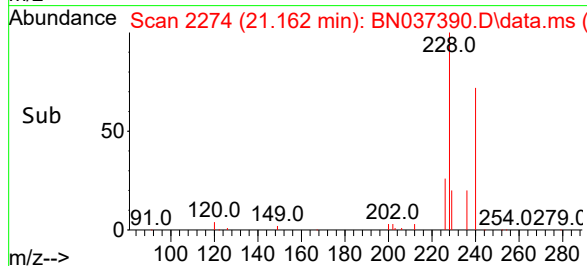
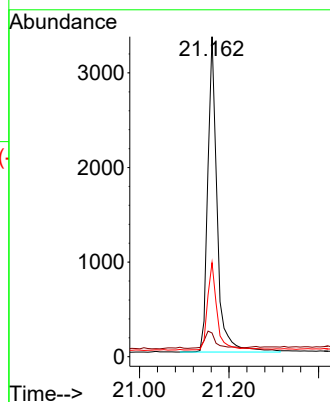
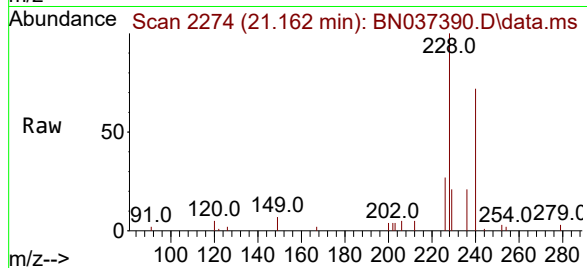
Tgt Ion:240 Resp: 4846

Ion Ratio Lower Upper

240 100

120 7.4 5.3 7.9

236 29.4 22.7 34.1



#30

Pyrene

Concen: 1.650 ng

RT: 19.393 min Scan# 2013

Delta R.T. -0.005 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

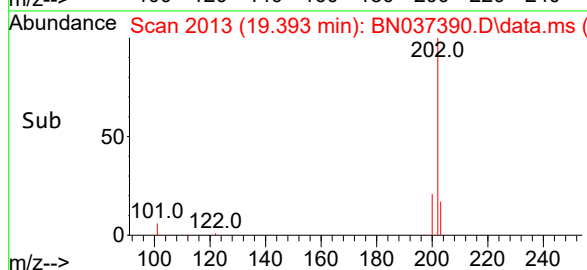
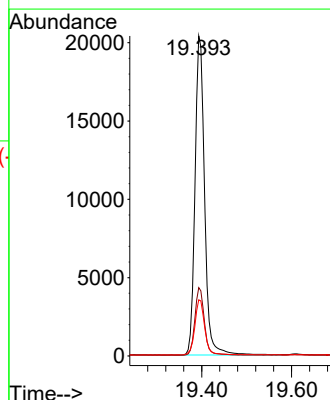
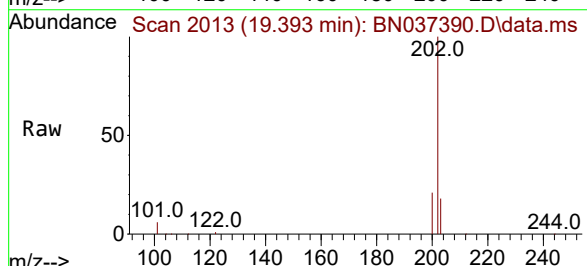
Tgt Ion:202 Resp: 30249

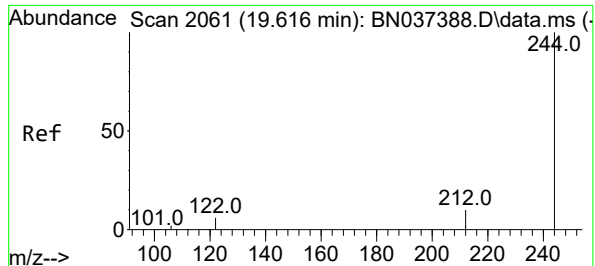
Ion Ratio Lower Upper

202 100

200 21.0 16.5 24.7

203 17.7 14.2 21.2

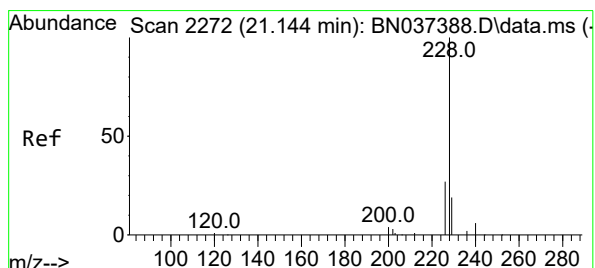
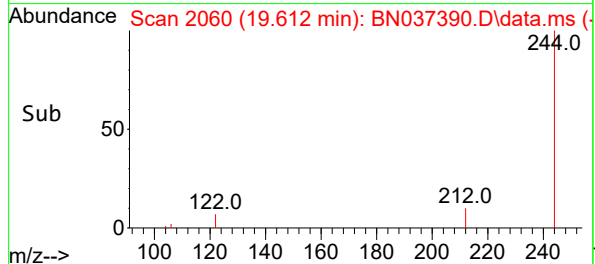
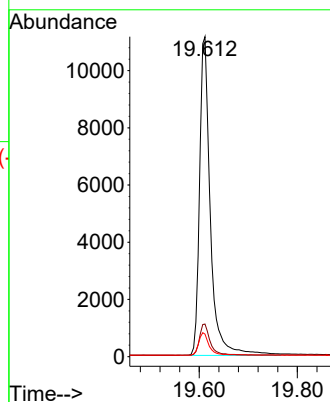
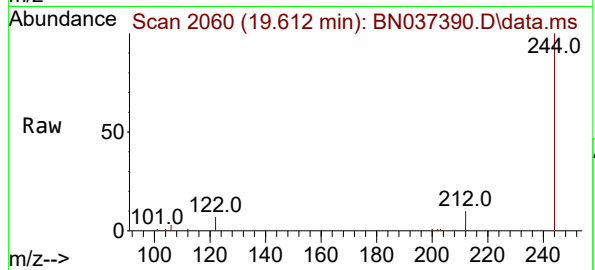




#31
Terphenyl-d14
Concen: 1.647 ng
RT: 19.612 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

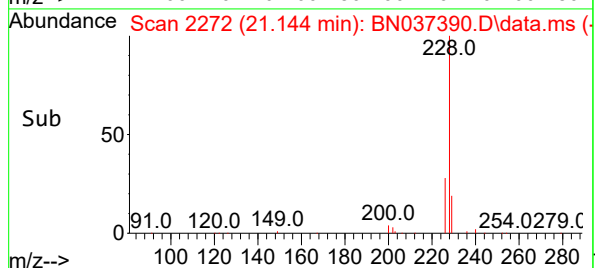
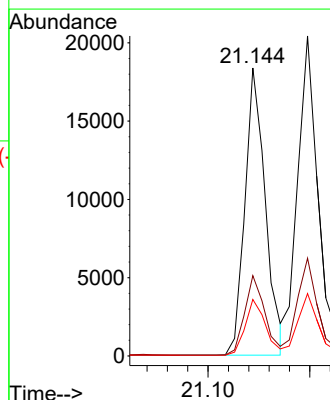
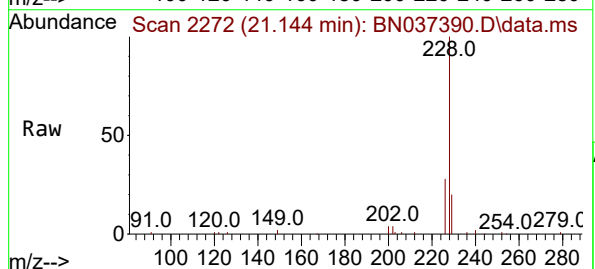
Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

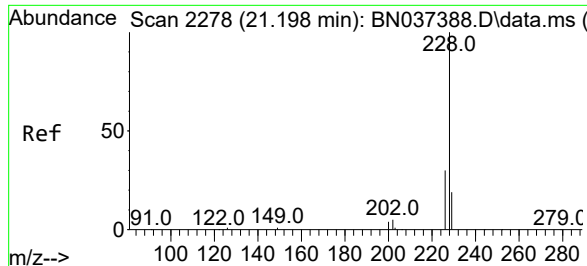
Tgt Ion:244 Resp: 17013
Ion Ratio Lower Upper
244 100
212 10.2 9.1 13.7
122 7.1 6.3 9.5



#32
Benzo(a)anthracene
Concen: 1.678 ng
RT: 21.144 min Scan# 2272
Delta R.T. 0.000 min
Lab File: BN037390.D
Acq: 26 Jun 2025 13:05

Tgt Ion:228 Resp: 25546
Ion Ratio Lower Upper
228 100
226 27.9 22.6 34.0
229 19.6 16.2 24.2





#33

Chrysene

Concen: 1.598 ng

RT: 21.198 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

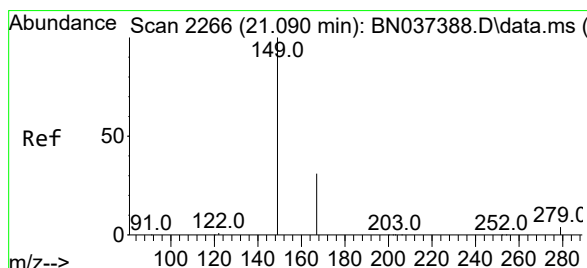
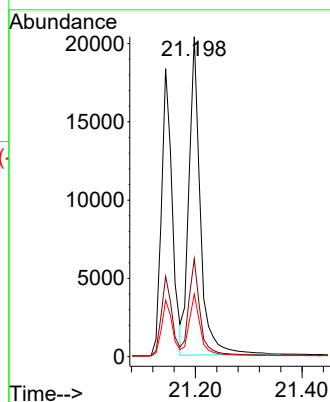
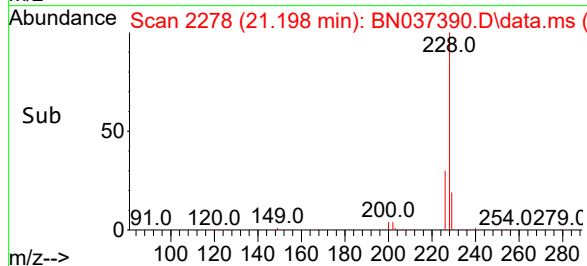
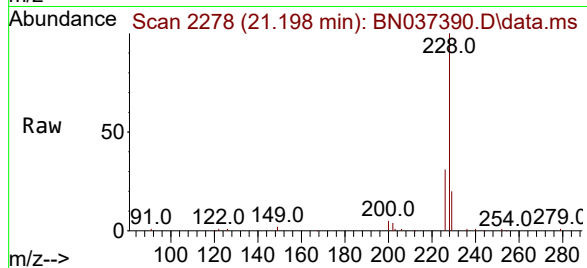
Tgt Ion:228 Resp: 30118

Ion Ratio Lower Upper

228 100

226 30.5 24.5 36.7

229 19.5 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.548 ng

RT: 21.090 min Scan# 2266

Delta R.T. 0.000 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

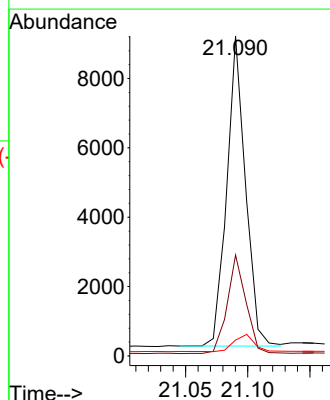
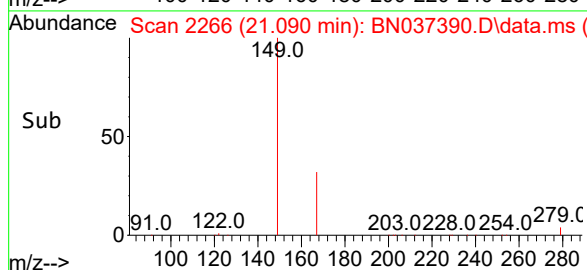
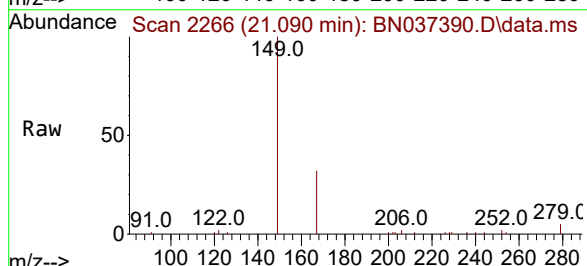
Tgt Ion:149 Resp: 9332

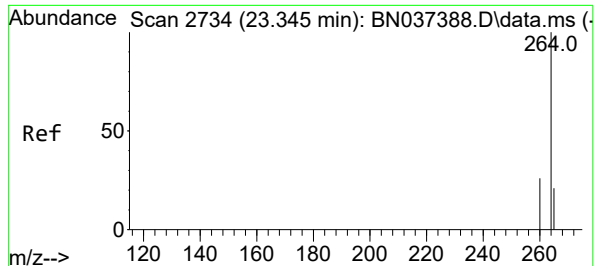
Ion Ratio Lower Upper

149 100

167 31.7 24.8 37.2

279 6.3 5.0 7.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.345 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

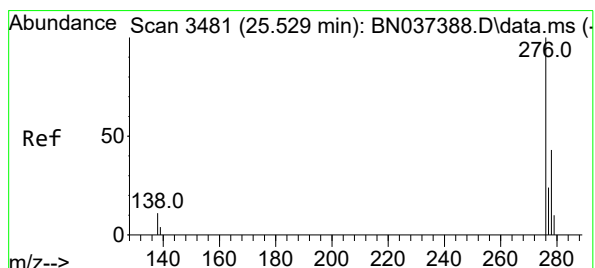
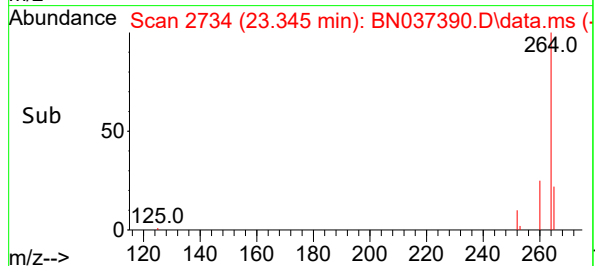
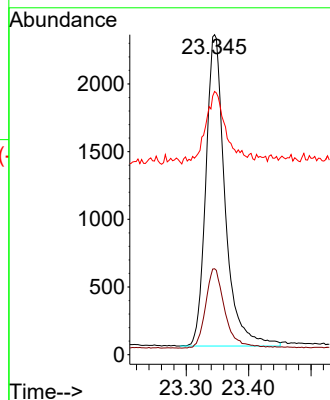
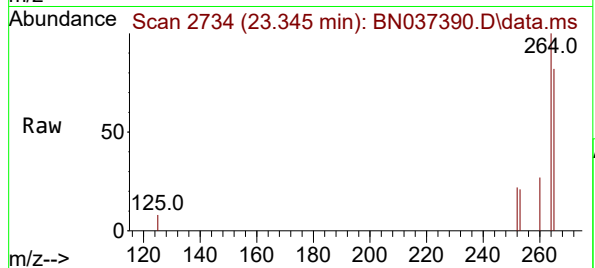
Tgt Ion:264 Resp: 4921

Ion Ratio Lower Upper

264 100

260 26.9 21.4 32.0

265 82.2 56.2 84.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.694 ng

RT: 25.529 min Scan# 3481

Delta R.T. 0.000 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

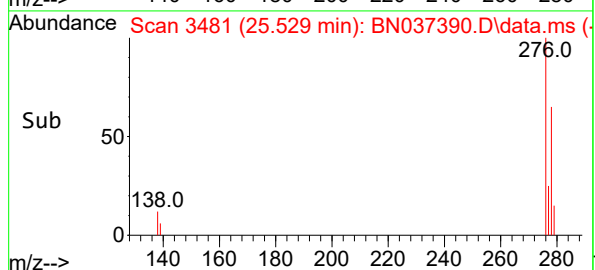
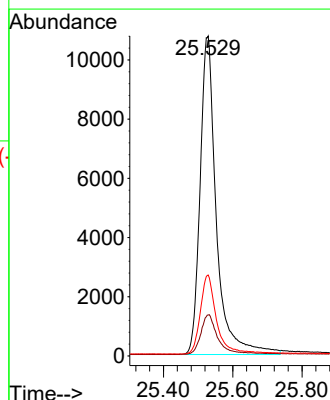
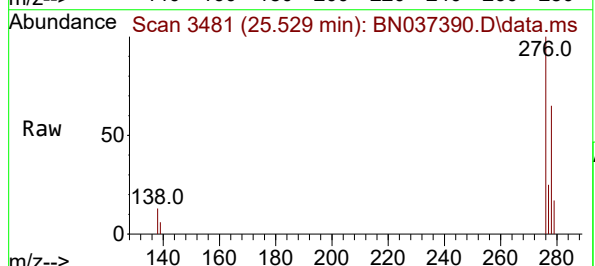
Tgt Ion:276 Resp: 35151

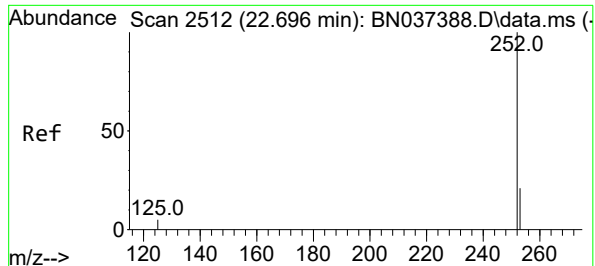
Ion Ratio Lower Upper

276 100

138 12.7 8.5 12.7

277 24.5 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 1.661 ng

RT: 22.690 min Scan# 2512

Delta R.T. -0.006 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

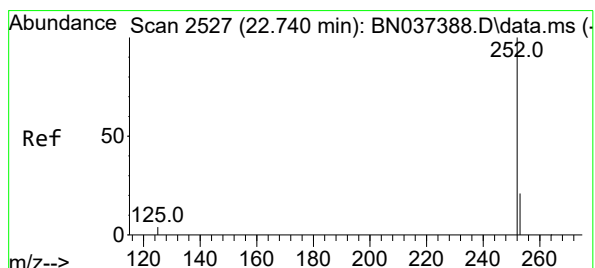
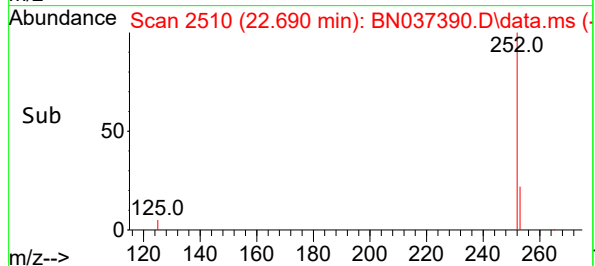
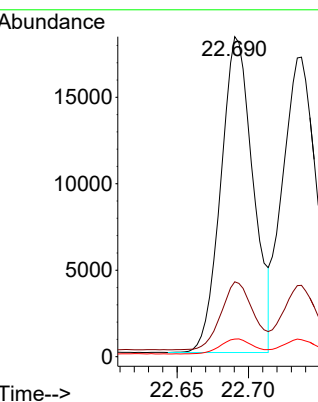
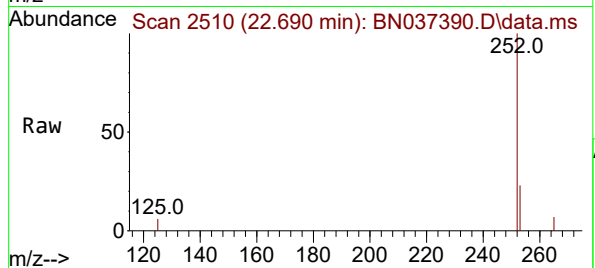
Tgt Ion:252 Resp: 28814

Ion Ratio Lower Upper

252 100

253 23.4 22.8 34.2

125 5.5 6.2 9.4#



#38

Benzo(k)fluoranthene

Concen: 1.648 ng

RT: 22.737 min Scan# 2526

Delta R.T. -0.003 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

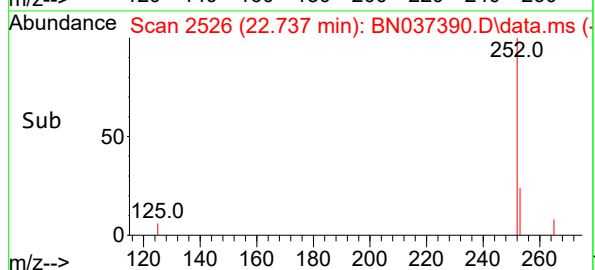
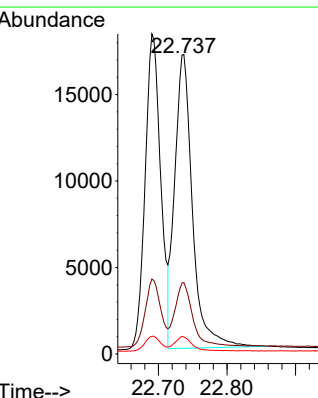
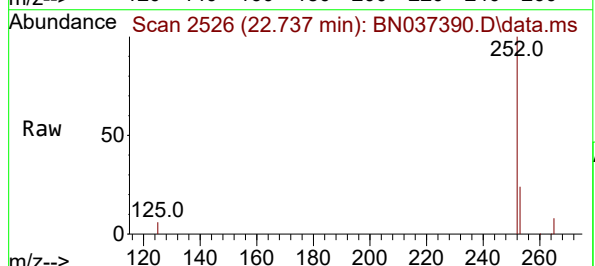
Tgt Ion:252 Resp: 30557

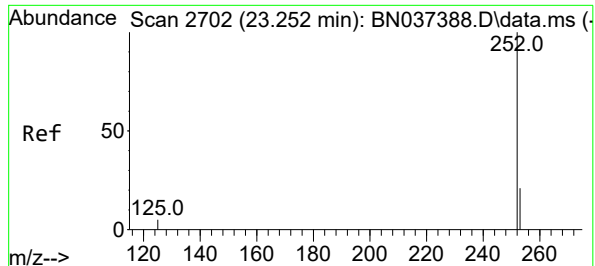
Ion Ratio Lower Upper

252 100

253 23.8 23.2 34.8

125 5.7 6.0 9.0#





#39

Benzo(a)pyrene

Concen: 1.640 ng

RT: 23.249 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6

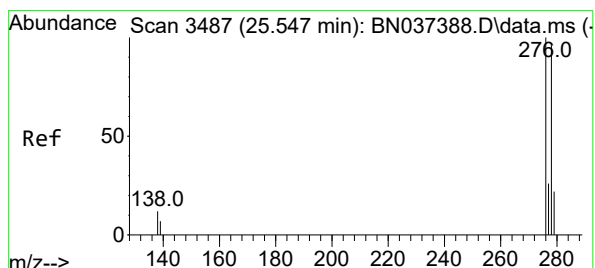
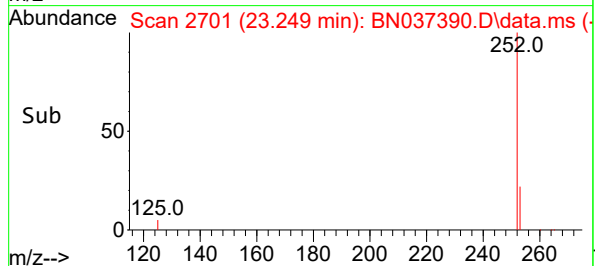
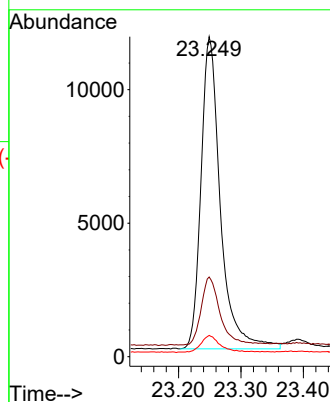
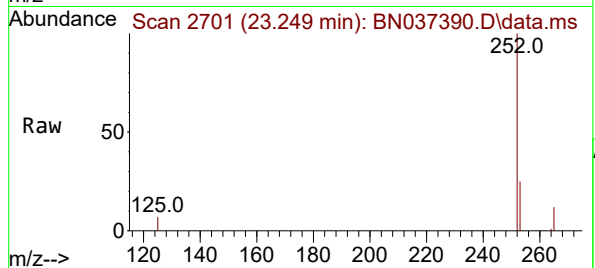
Tgt Ion:252 Resp: 25315

Ion Ratio Lower Upper

252 100

253 24.9 25.6 38.4#

125 6.6 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 1.722 ng

RT: 25.538 min Scan# 3484

Delta R.T. -0.009 min

Lab File: BN037390.D

Acq: 26 Jun 2025 13:05

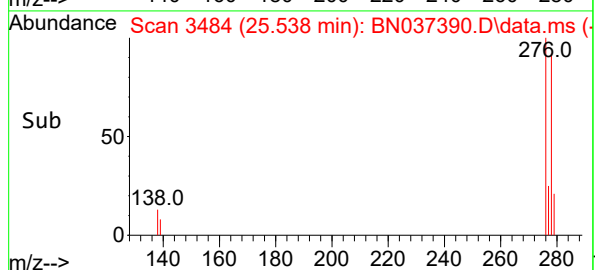
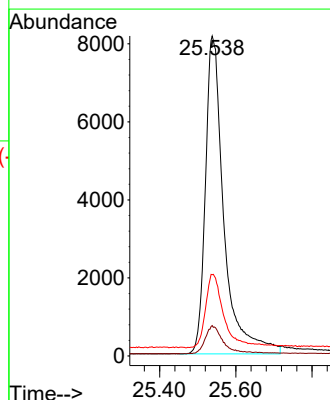
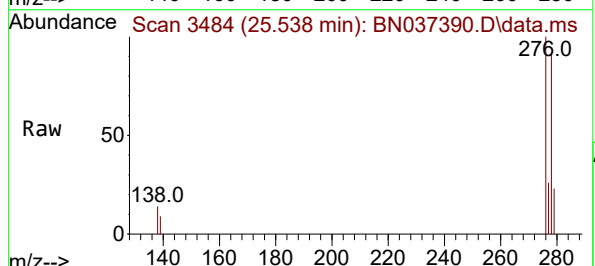
Tgt Ion:278 Resp: 27440

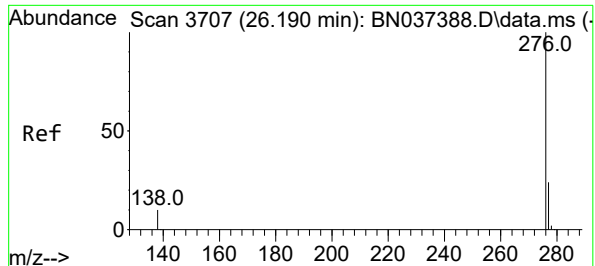
Ion Ratio Lower Upper

278 100

139 9.5 8.5 12.7

279 25.4 27.5 41.3#





#41

Benzo(g,h,i)perylene

Concen: 1.671 ng

RT: 26.187 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037390.D

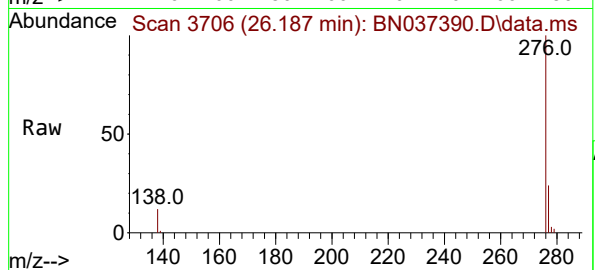
Acq: 26 Jun 2025 13:05

Instrument :

BNA_N

ClientSampleId :

SSTDICC1.6



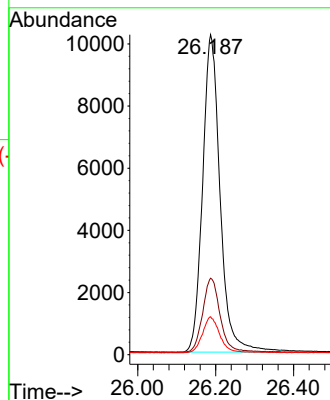
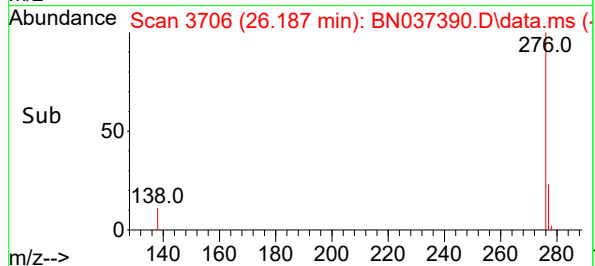
Tgt Ion:276 Resp: 31821

Ion Ratio Lower Upper

276 100

277 23.9 21.0 31.4

138 11.8 9.6 14.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
 Data File : BN037391.D
 Acq On : 26 Jun 2025 13:41
 Operator : RC/JU
 Sample : SSTDICC3.2
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC3.2

Quant Time: Jun 26 14:45:16 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 14:40:13 2025
 Response via : Initial Calibration

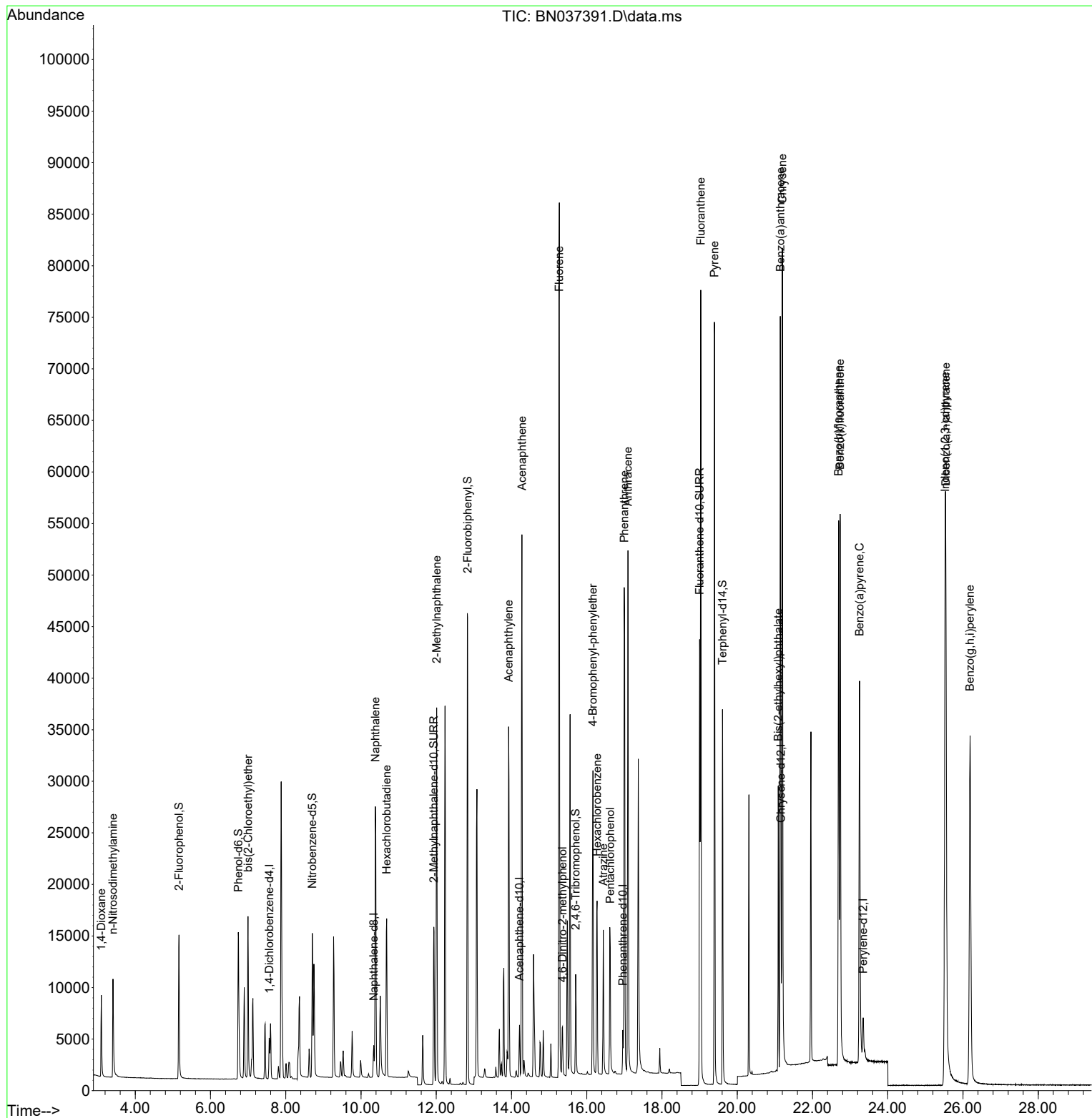
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.560	152	1913	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4102	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	2755	0.400	ng	0.00
19) Phenanthrene-d10	16.959	188	5771	0.400	ng	0.00
29) Chrysene-d12	21.162	240	5566	0.400	ng	0.00
35) Perylene-d12	23.348	264	5442	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	11831	3.209	ng	0.00
5) Phenol-d6	6.744	99	13561	3.547	ng	0.00
8) Nitrobenzene-d5	8.707	82	11574	3.508	ng	-0.01
11) 2-Methylnaphthalene-d10	11.935	152	21511	3.390	ng	0.00
14) 2,4,6-Tribromophenol	15.705	330	5638	3.489	ng	-0.01
15) 2-Fluorobiphenyl	12.833	172	39687	3.337	ng	0.00
27) Fluoranthene-d10	18.998	212	53268	3.221	ng	0.00
31) Terphenyl-d14	19.607	244	39701	3.345	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.097	88	5559	3.243	ng	96
3) n-Nitrosodimethylamine	3.408	42	5726	3.196	ng	# 93
6) bis(2-Chloroethyl)ether	6.997	93	11865	3.490	ng	96
9) Naphthalene	10.383	128	34450	3.263	ng	96
10) Hexachlorobutadiene	10.682	225	13273	3.167	ng	# 98
12) 2-Methylnaphthalene	12.011	142	25164	3.461	ng	97
16) Acenaphthylene	13.924	152	38375	3.359	ng	100
17) Acenaphthene	14.277	154	25275	3.388	ng	97
18) Fluorene	15.271	166	36211	3.437	ng	100
20) 4,6-Dinitro-2-methylph...	15.357	198	5478	3.696	ng	# 55
21) 4-Bromophenyl-phenylether	16.165	248	13953	3.427	ng	# 91
22) Hexachlorobenzene	16.276	284	13881	3.171	ng	98
23) Atrazine	16.438	200	11170	3.463	ng	96
24) Pentachlorophenol	16.624	266	7774	3.288	ng	97
25) Phenanthrene	16.996	178	54938	3.379	ng	99
26) Anthracene	17.095	178	51719	3.460	ng	100
28) Fluoranthene	19.031	202	69575	3.351	ng	99
30) Pyrene	19.393	202	69001	3.276	ng	99
32) Benzo(a)anthracene	21.144	228	60725	3.472	ng	98
33) Chrysene	21.198	228	67241	3.106	ng	99
34) Bis(2-ethylhexyl)phtha...	21.090	149	21735	3.139	ng	100
36) Indeno(1,2,3-cd)pyrene	25.526	276	80692	3.517	ng	# 97
37) Benzo(b)fluoranthene	22.693	252	65471	3.412	ng	# 90
38) Benzo(k)fluoranthene	22.734	252	70234	3.425	ng	# 89
39) Benzo(a)pyrene	23.252	252	58393	3.422	ng	# 86
40) Dibenzo(a,h)anthracene	25.541	278	64655	3.668	ng	# 86
41) Benzo(g,h,i)perylene	26.187	276	72186	3.427	ng	96

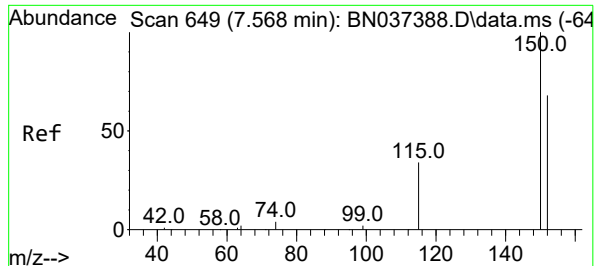
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037391.D
Acq On : 26 Jun 2025 13:41
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Jun 26 14:45:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 14:40:13 2025
Response via : Initial Calibration

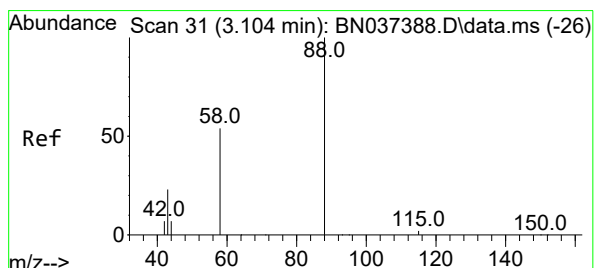
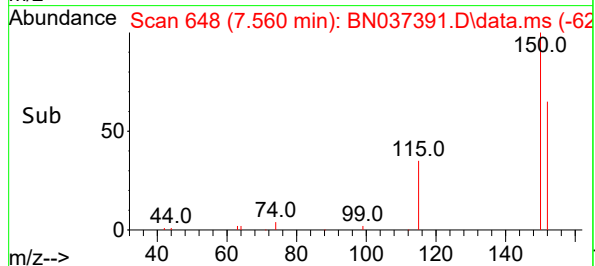
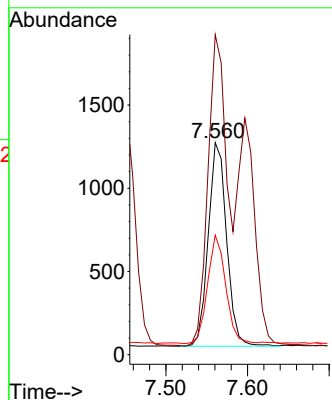
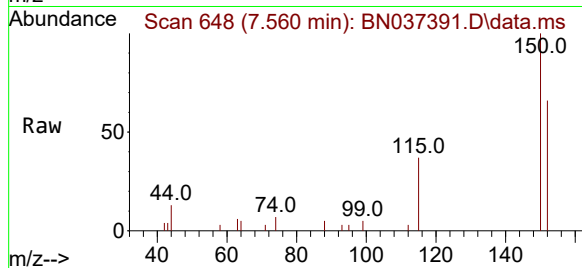




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

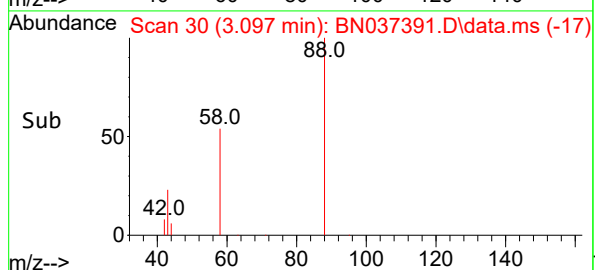
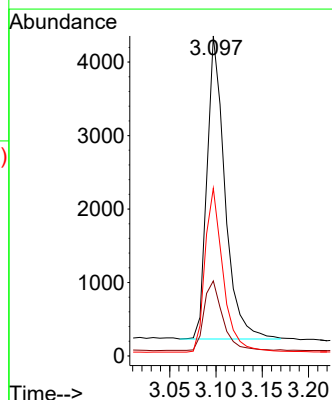
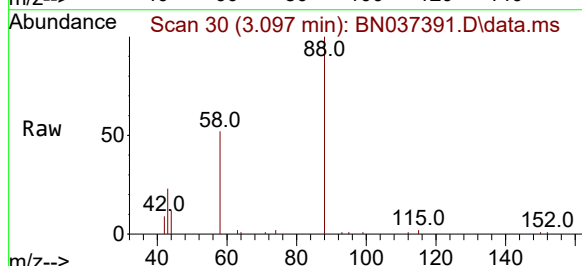
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

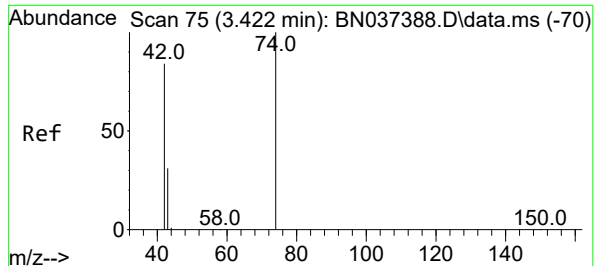
Tgt Ion:152 Resp: 1913
Ion Ratio Lower Upper
152 100
150 150.9 116.2 174.2
115 56.4 42.9 64.3



#2
1,4-Dioxane
Concen: 3.243 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion: 88 Resp: 5559
Ion Ratio Lower Upper
88 100
43 24.1 21.6 32.4
58 54.5 45.9 68.9

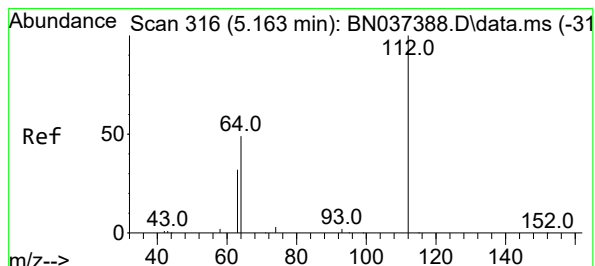
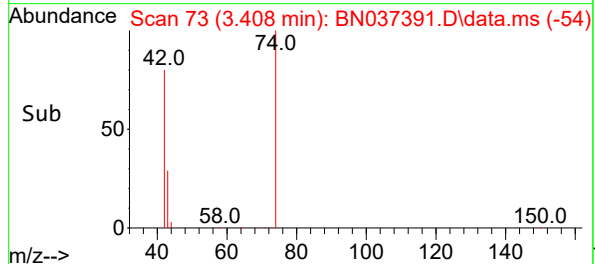
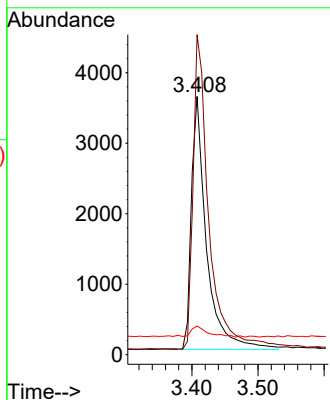
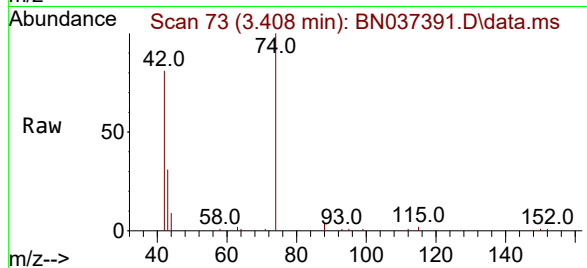




#3
n-Nitrosodimethylamine
Concen: 3.196 ng
RT: 3.408 min Scan# 71
Delta R.T. -0.014 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

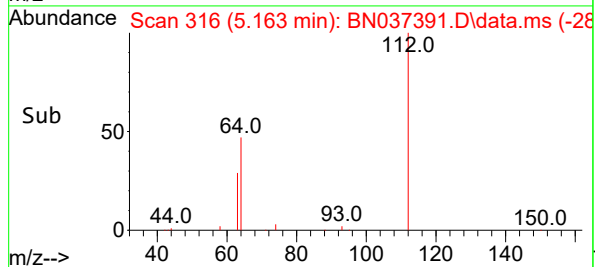
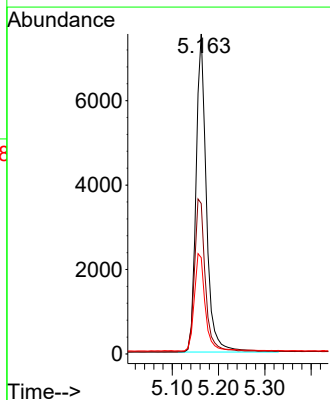
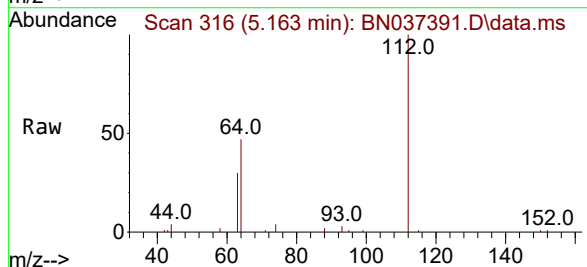
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

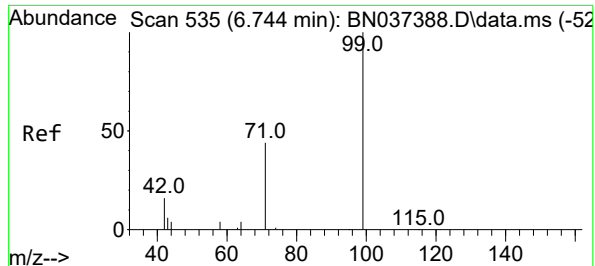
Tgt Ion: 42 Resp: 5726
Ion Ratio Lower Upper
42 100
74 129.6 97.8 146.8
44 5.2 8.7 13.1#



#4
2-Fluorophenol
Concen: 3.209 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion: 112 Resp: 11831
Ion Ratio Lower Upper
112 100
64 50.5 40.3 60.5
63 31.8 26.1 39.1

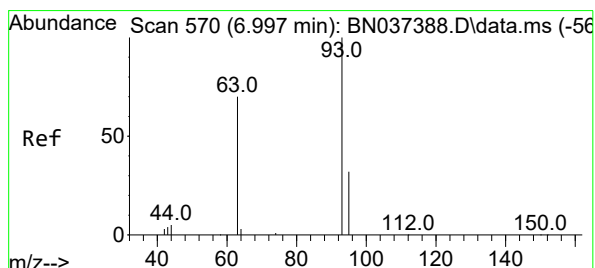
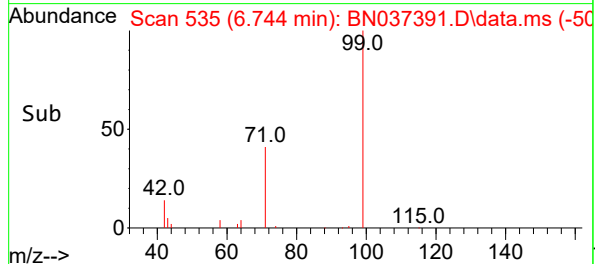
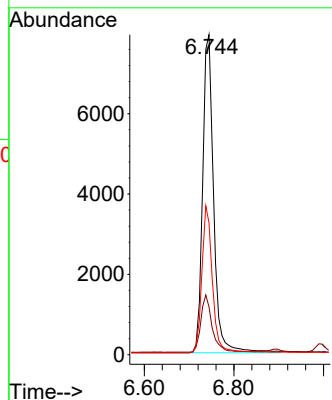
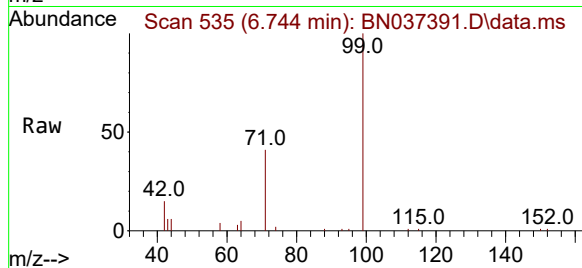




#5
Phenol-d6
Concen: 3.547 ng
RT: 6.744 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

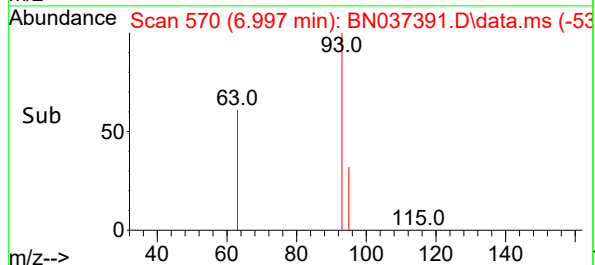
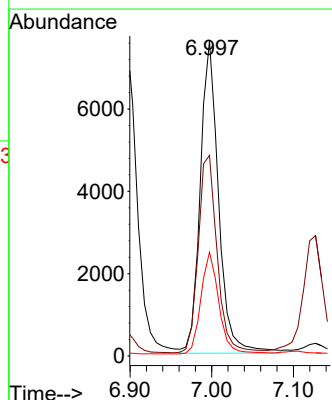
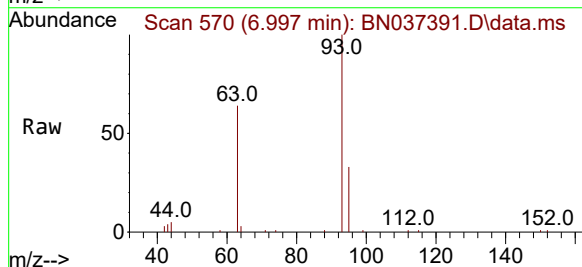
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

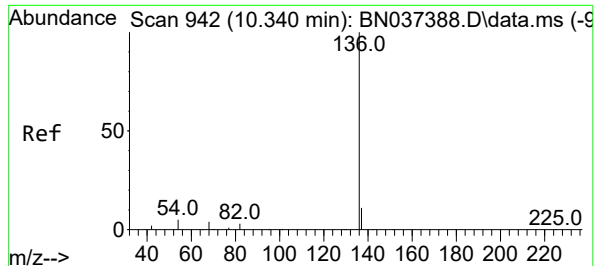
Tgt Ion	Ratio	Lower	Upper
99	100		
42	18.5	15.6	23.4
71	44.5	35.8	53.8



#6
bis(2-Chloroethyl)ether
Concen: 3.490 ng
RT: 6.997 min Scan# 570
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion	Ratio	Lower	Upper
93	100		
63	65.4	49.6	74.4
95	31.9	23.9	35.9

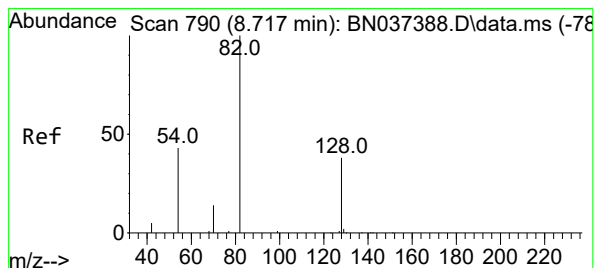
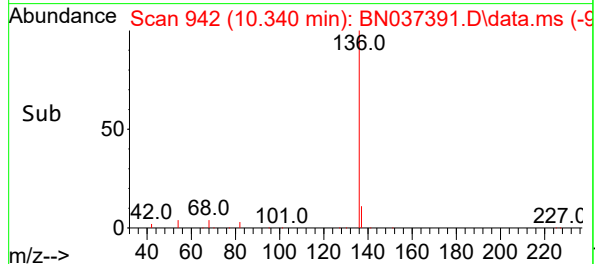
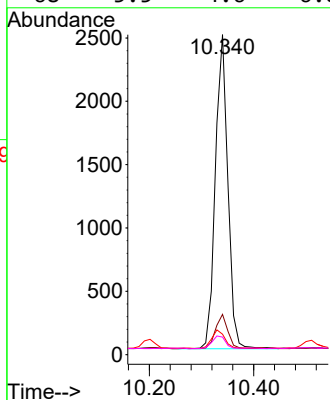
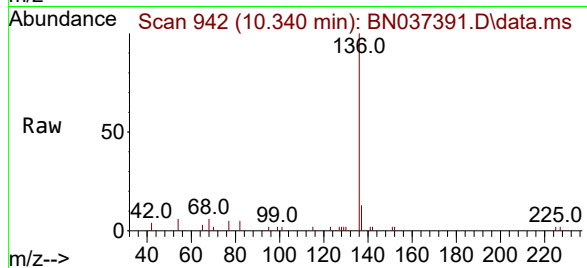




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

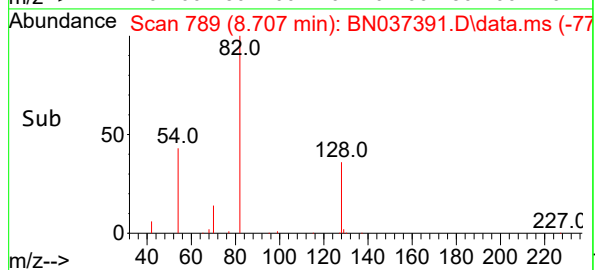
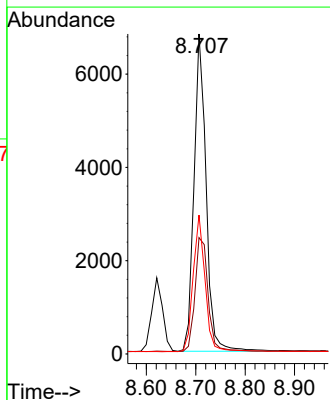
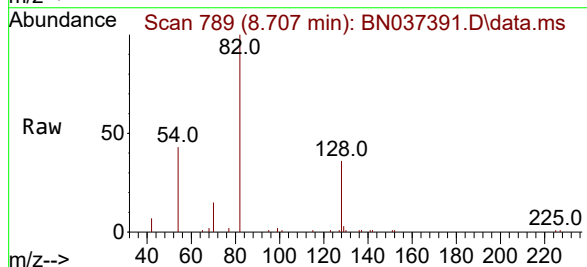
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

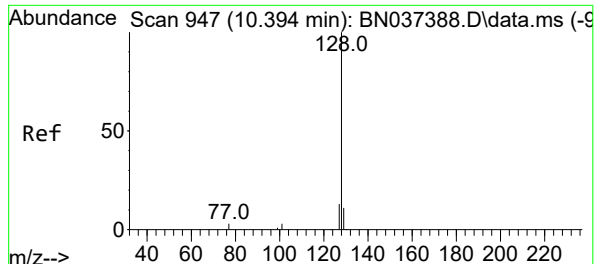
Tgt Ion:	136	Resp:	4102
Ion	Ratio	Lower	Upper
136	100		
137	12.6	10.4	15.6
54	6.4	5.6	8.4
68	5.5	4.6	6.8



#8
Nitrobenzene-d5
Concen: 3.508 ng
RT: 8.707 min Scan# 789
Delta R.T. -0.011 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:	82	Resp:	11574
Ion	Ratio	Lower	Upper
82	100		
128	36.3	34.0	51.0
54	43.4	37.7	56.5

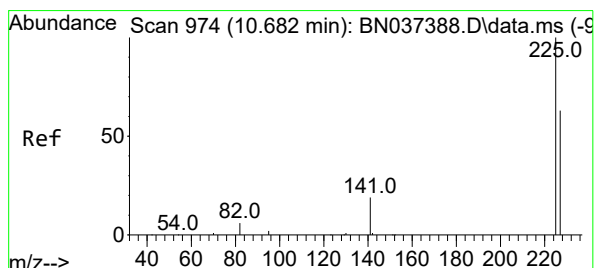
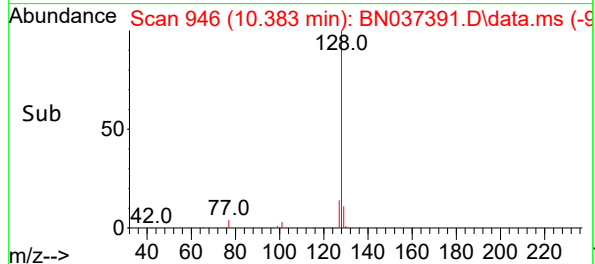
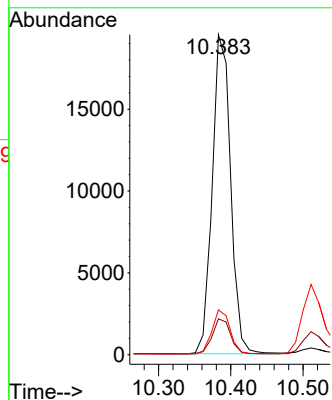
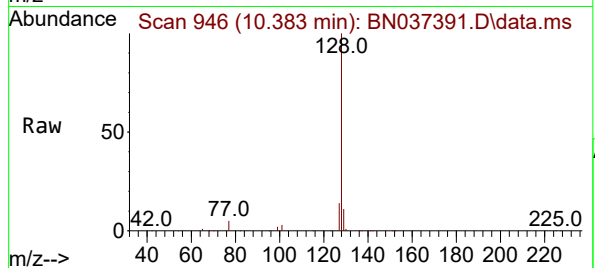




#9
Naphthalene
Concen: 3.263 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.011 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

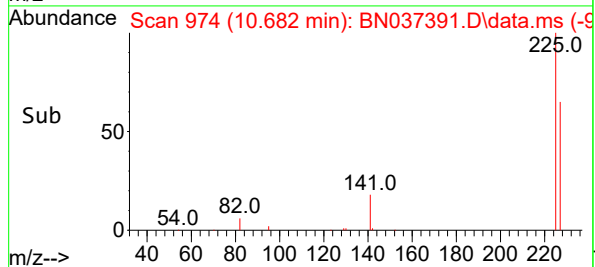
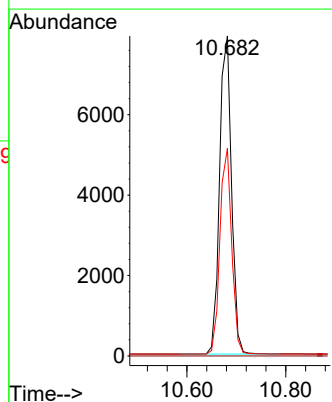
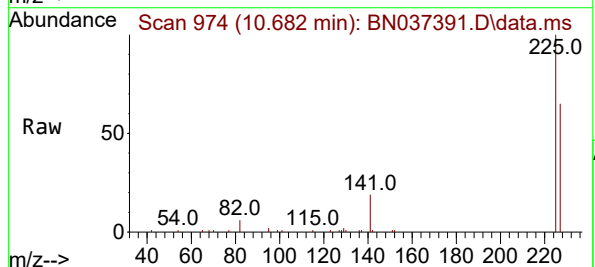
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

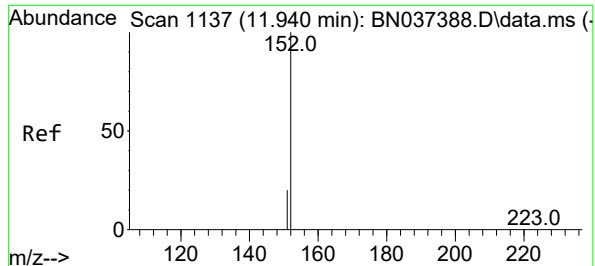
Tgt Ion:128 Resp: 34450
Ion Ratio Lower Upper
128 100
129 11.2 10.4 15.6
127 14.0 12.2 18.4



#10
Hexachlorobutadiene
Concen: 3.167 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:225 Resp: 13273
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 49.9 74.9





#11

2-Methylnaphthalene-d10

Concen: 3.390 ng

RT: 11.935 min Scan# 1136

Delta R.T. -0.005 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

Instrument :

BNA_N

ClientSampleId :

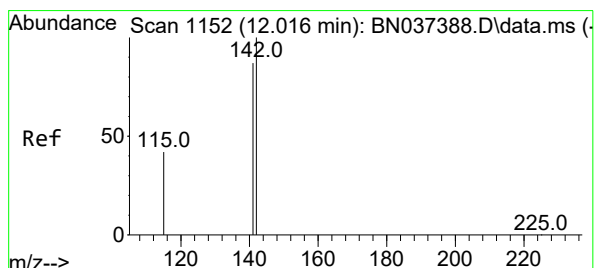
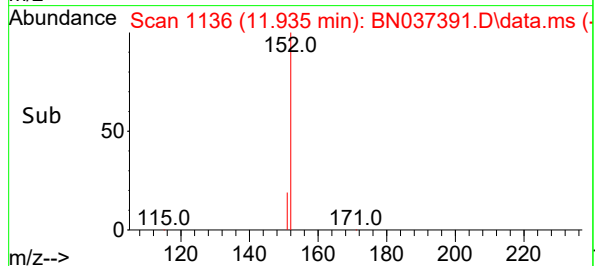
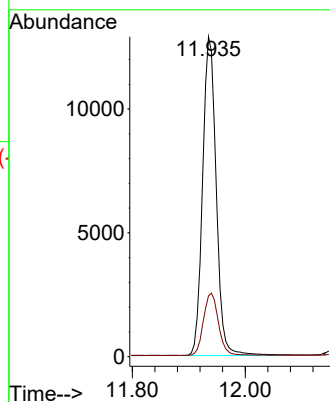
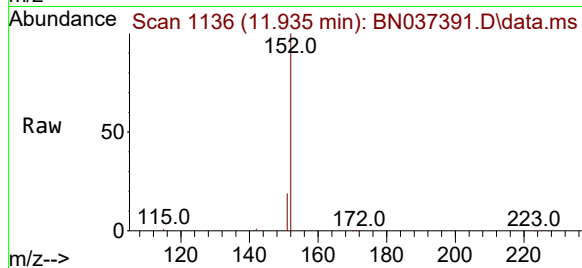
SSTDICC3.2

Tgt Ion:152 Resp: 21511

Ion Ratio Lower Upper

152 100

151 21.6 18.4 27.6



#12

2-Methylnaphthalene

Concen: 3.461 ng

RT: 12.011 min Scan# 1151

Delta R.T. -0.005 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

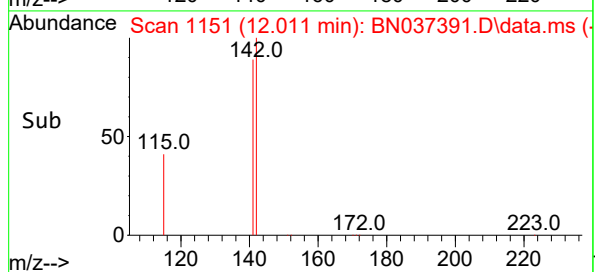
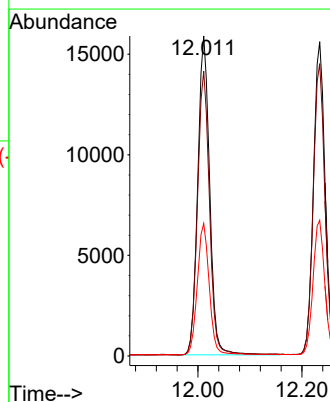
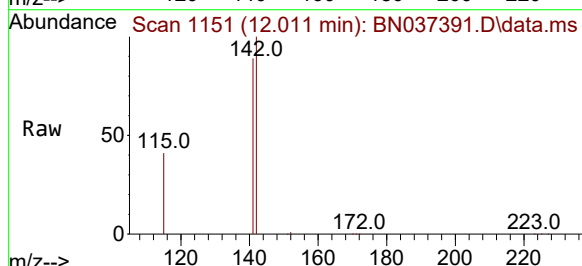
Tgt Ion:142 Resp: 25164

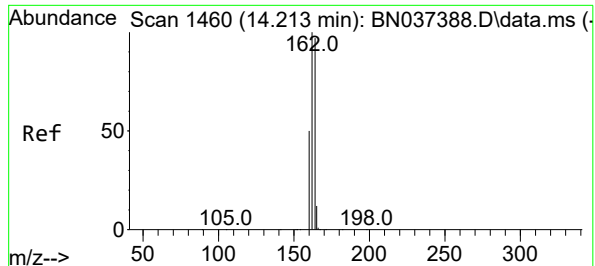
Ion Ratio Lower Upper

142 100

141 89.0 70.1 105.1

115 41.4 35.8 53.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.213 min Scan# 1460

Delta R.T. -0.000 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

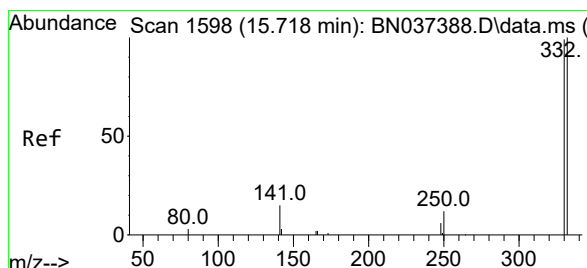
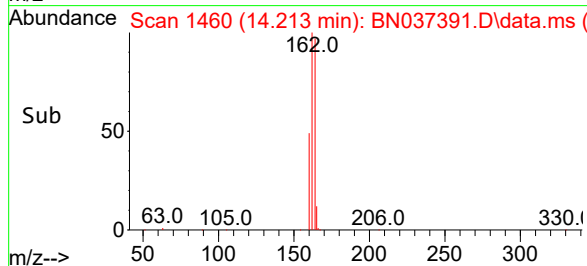
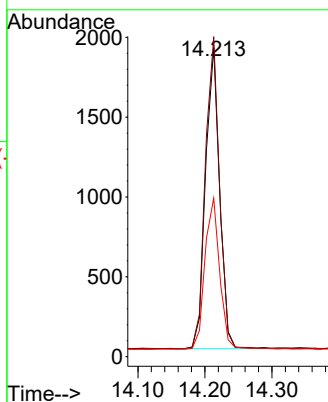
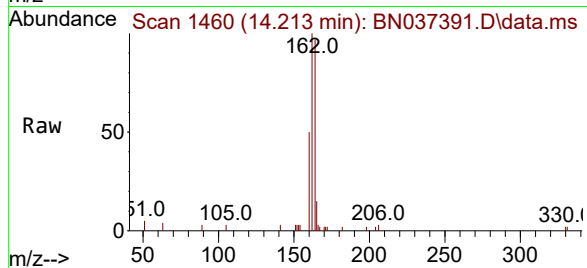
Tgt Ion:164 Resp: 2755

Ion Ratio Lower Upper

164 100

162 103.5 82.6 123.8

160 51.3 42.2 63.2



#14

2,4,6-Tribromophenol

Concen: 3.489 ng

RT: 15.705 min Scan# 1597

Delta R.T. -0.012 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

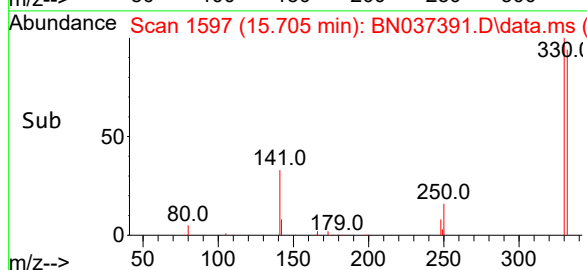
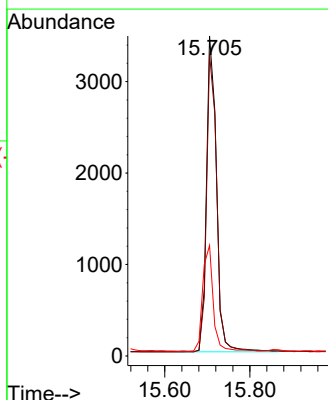
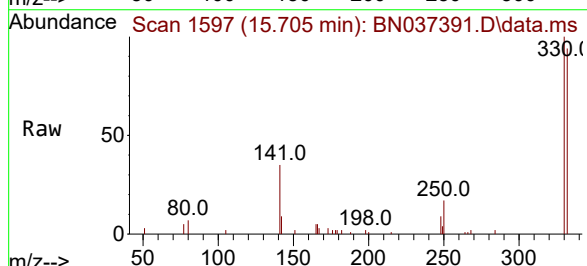
Tgt Ion:330 Resp: 5638

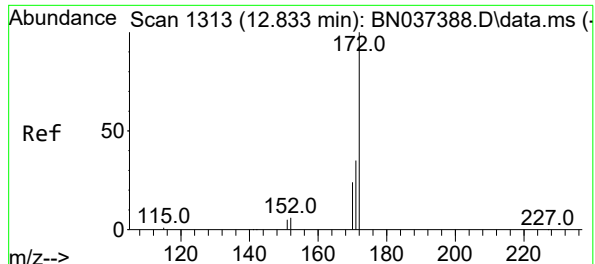
Ion Ratio Lower Upper

330 100

332 95.6 77.8 116.8

141 35.1 24.0 36.0

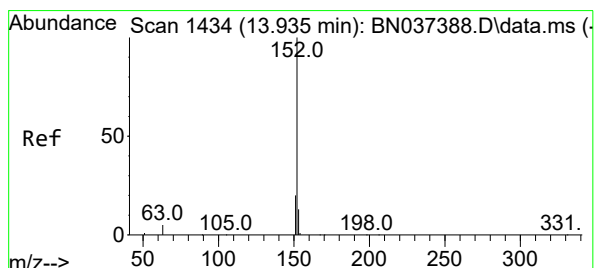
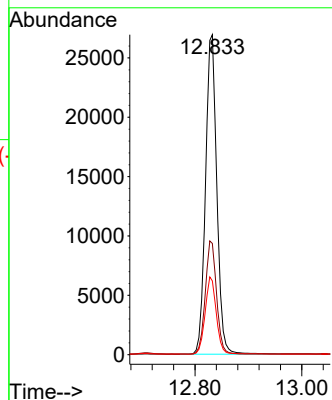
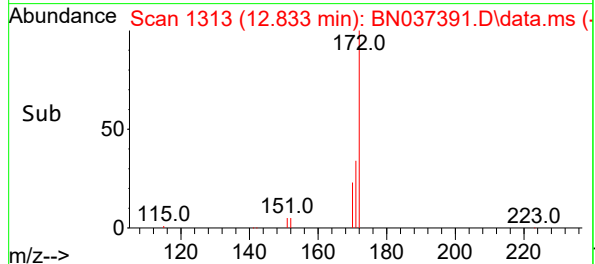
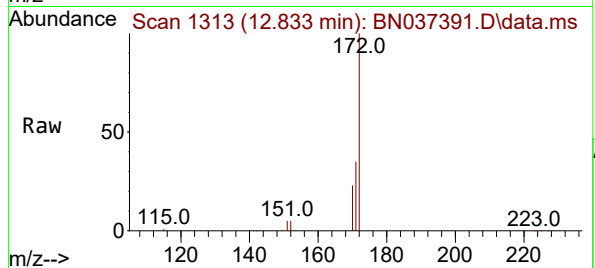




#15
2-Fluorobiphenyl
Concen: 3.337 ng
RT: 12.833 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

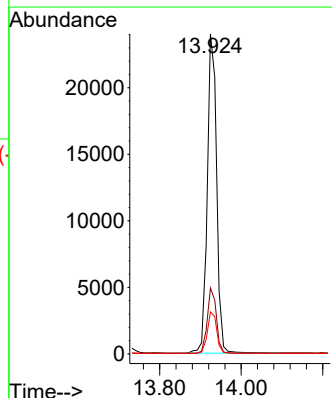
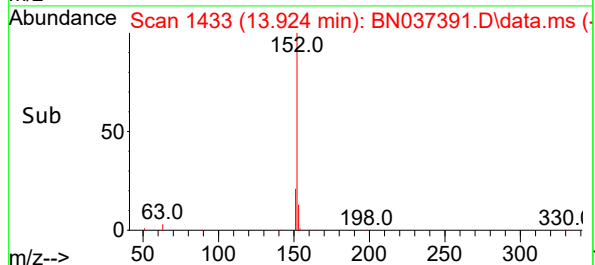
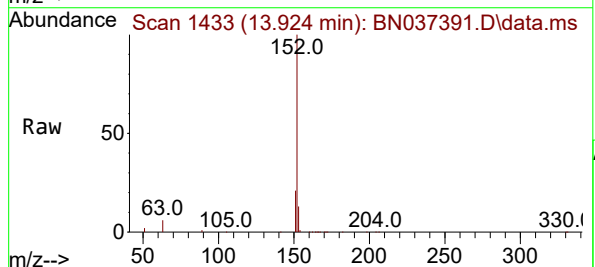
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

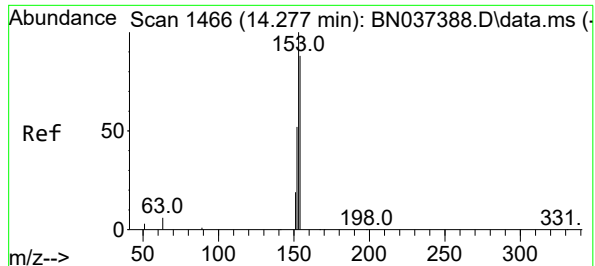
Tgt Ion:172 Resp: 39687
Ion Ratio Lower Upper
172 100
171 34.7 28.8 43.2
170 23.1 20.3 30.5



#16
Acenaphthylene
Concen: 3.359 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:152 Resp: 38375
Ion Ratio Lower Upper
152 100
151 19.8 15.8 23.6
153 13.1 10.3 15.5





#17

Acenaphthene

Concen: 3.388 ng

RT: 14.277 min Scan# 1466

Delta R.T. -0.000 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

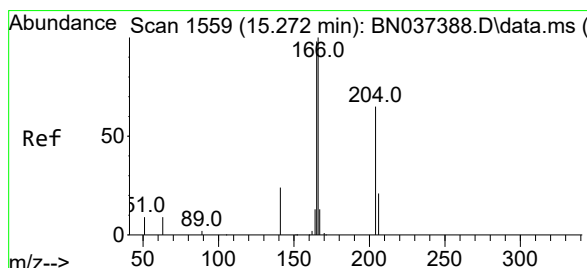
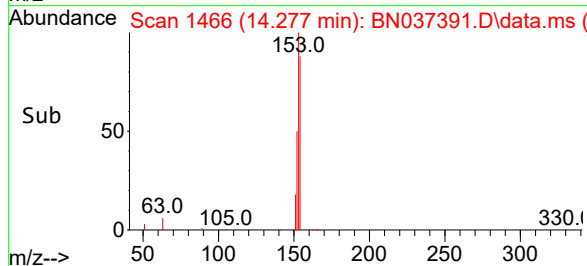
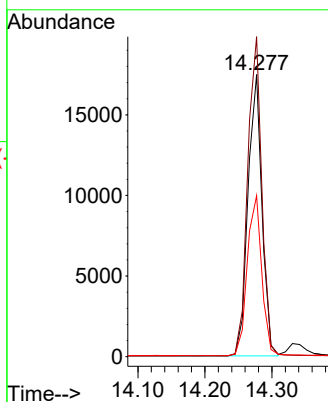
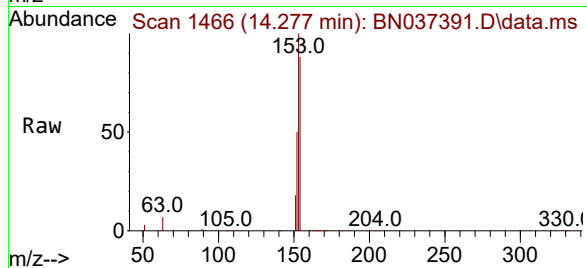
Tgt Ion:154 Resp: 25275

Ion Ratio Lower Upper

154 100

153 115.2 94.6 141.8

152 59.7 50.2 75.2



#18

Fluorene

Concen: 3.437 ng

RT: 15.271 min Scan# 1559

Delta R.T. -0.000 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

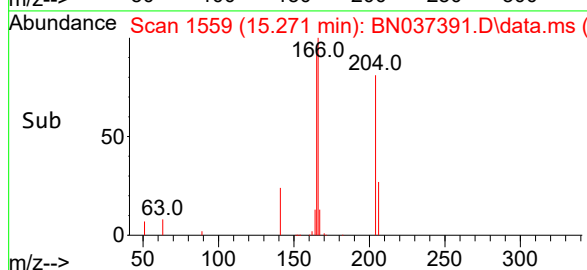
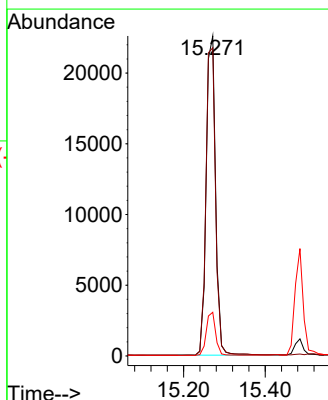
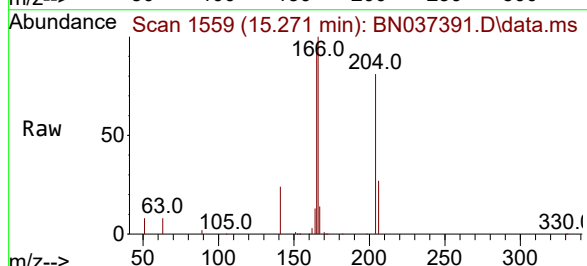
Tgt Ion:166 Resp: 36211

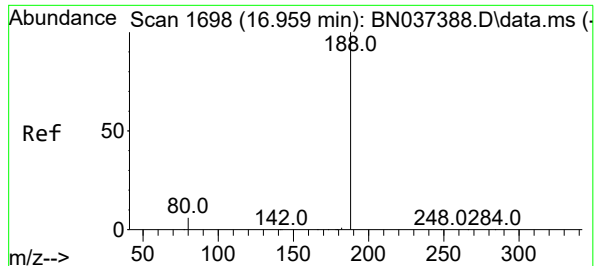
Ion Ratio Lower Upper

166 100

165 98.9 79.4 119.2

167 13.5 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.959 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

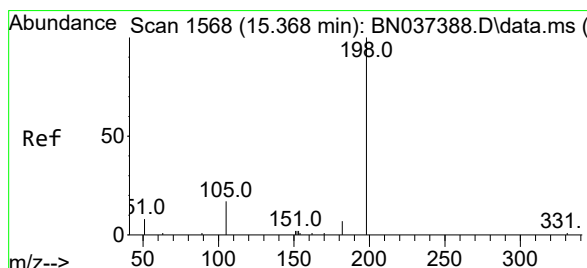
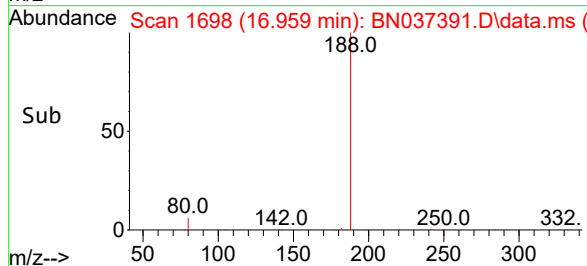
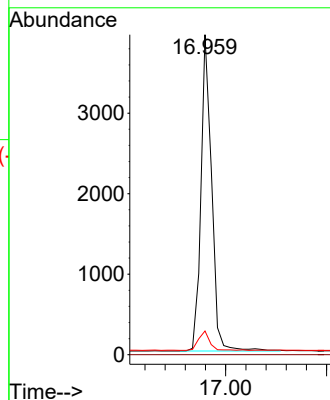
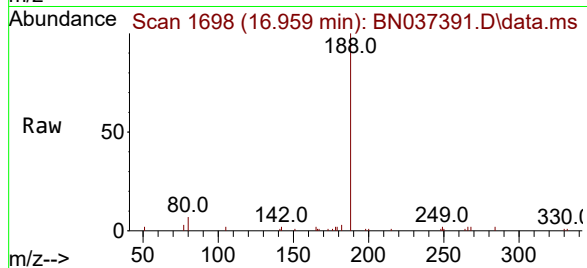
Tgt Ion:188 Resp: 5771

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.4 6.2 9.4



#20

4,6-Dinitro-2-methylphenol

Concen: 3.696 ng

RT: 15.357 min Scan# 1567

Delta R.T. -0.011 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

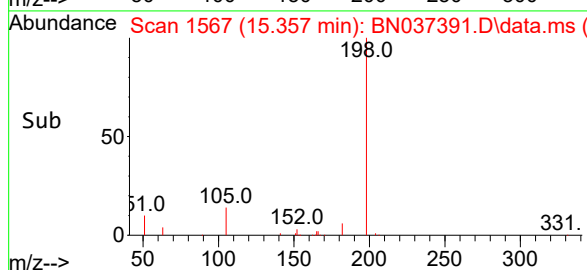
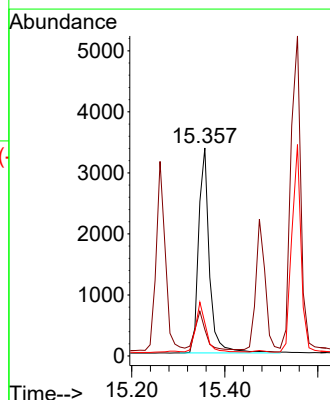
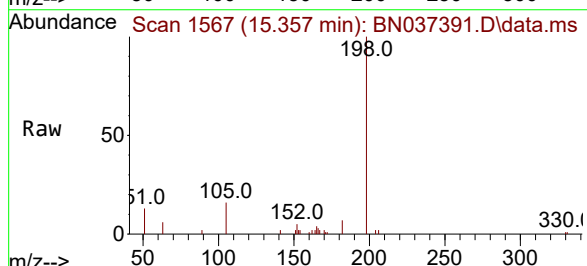
Tgt Ion:198 Resp: 5478

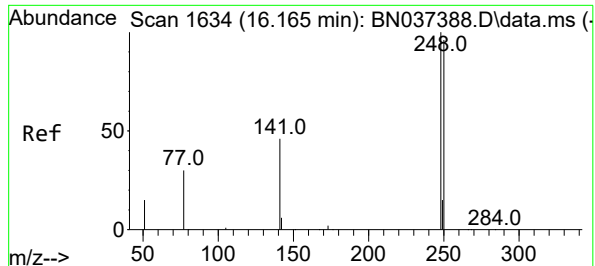
Ion Ratio Lower Upper

198 100

51 12.7 38.8 58.2#

105 15.9 29.8 44.6#

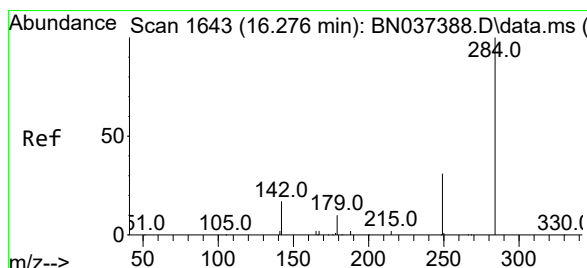
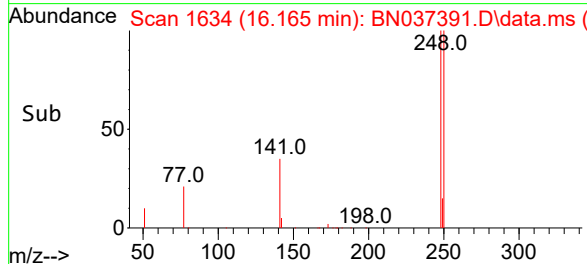
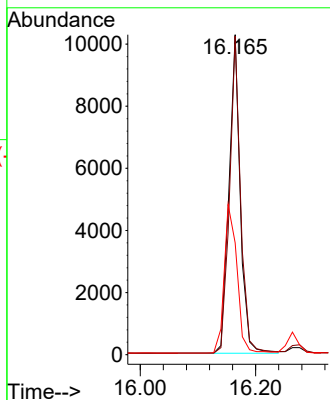
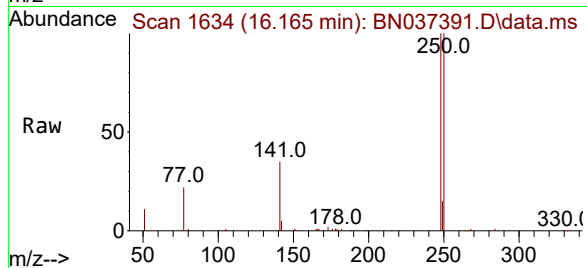




#21
4-Bromophenyl-phenylether
Concen: 3.427 ng
RT: 16.165 min Scan# 1634
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

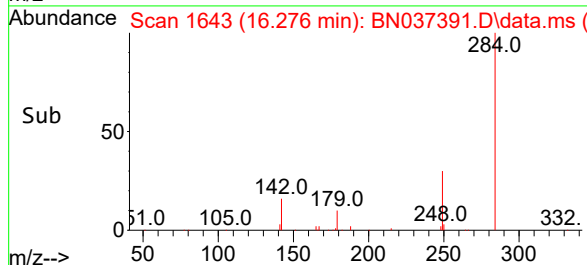
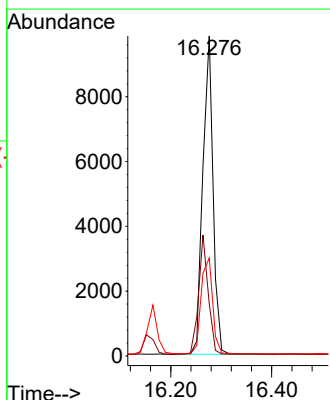
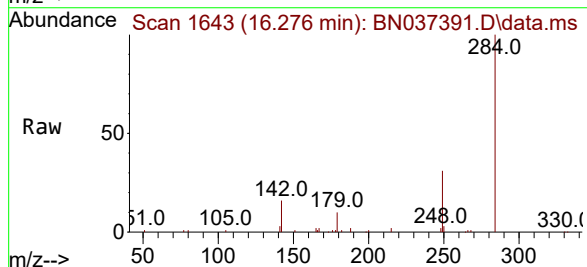
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

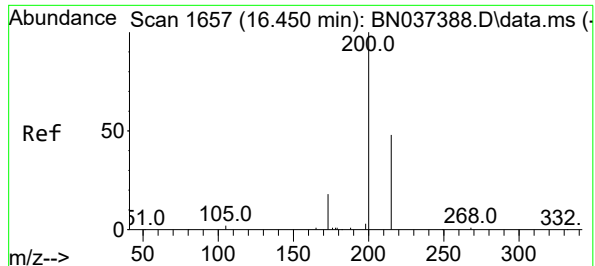
Tgt Ion	Ratio	Lower	Upper
248	100		
250	99.6	77.0	115.4
141	35.0	38.7	58.1#



#22
Hexachlorobenzene
Concen: 3.171 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion	Ratio	Lower	Upper
284	100		
142	35.4	27.2	40.8
249	33.9	26.7	40.1

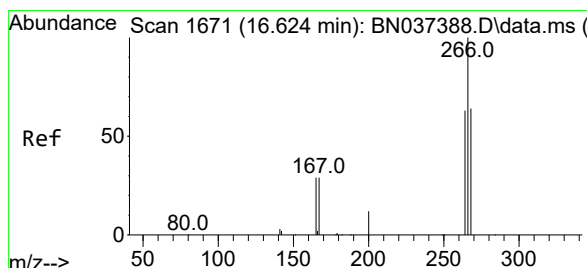
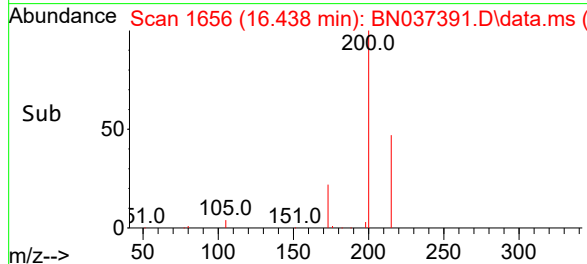
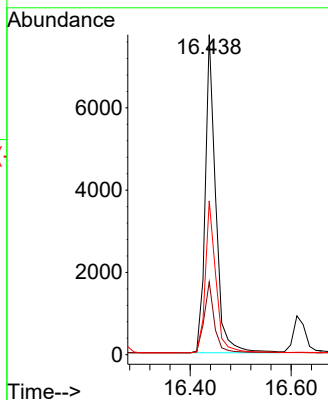
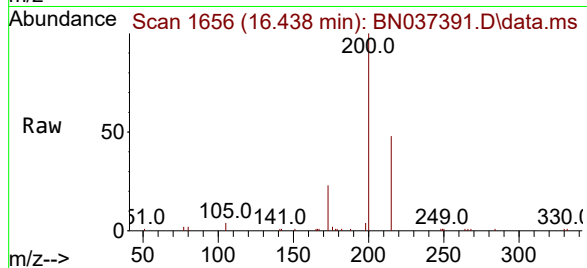




#23
Atrazine
Concen: 3.463 ng
RT: 16.438 min Scan# 1656
Delta R.T. -0.012 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

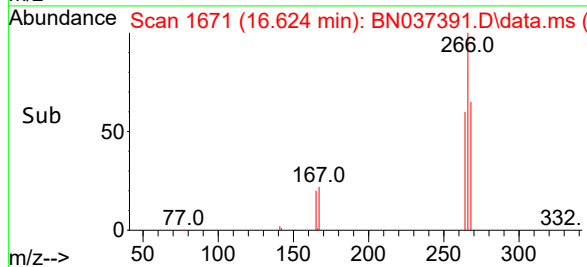
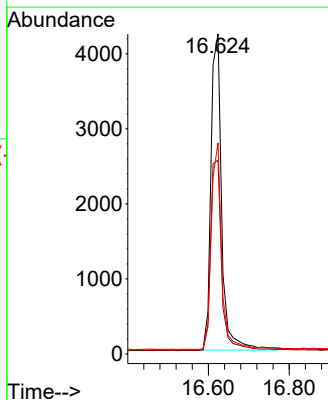
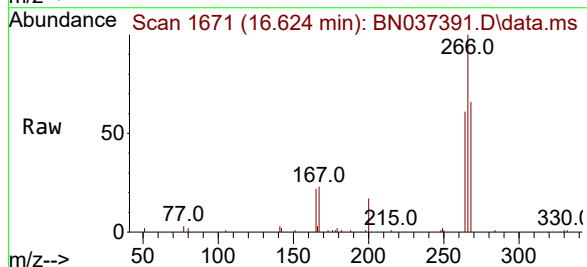
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

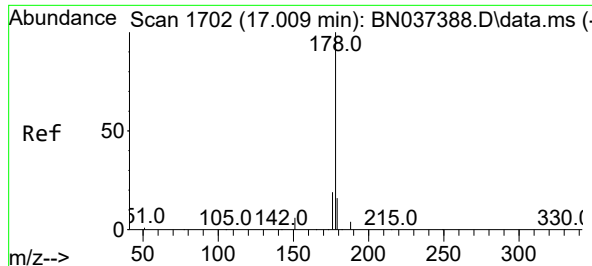
Tgt Ion:200 Resp: 11170
Ion Ratio Lower Upper
200 100
173 22.8 19.0 28.6
215 48.1 41.3 61.9



#24
Pentachlorophenol
Concen: 3.288 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:266 Resp: 7774
Ion Ratio Lower Upper
266 100
264 62.4 49.2 73.8
268 63.6 54.2 81.4





#25

Phenanthrene

Concen: 3.379 ng

RT: 16.996 min Scan# 1701

Delta R.T. -0.012 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

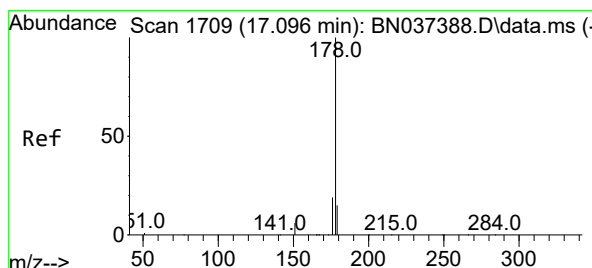
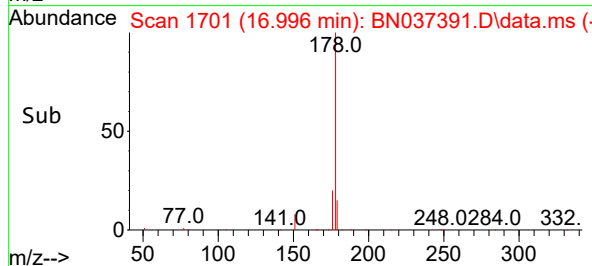
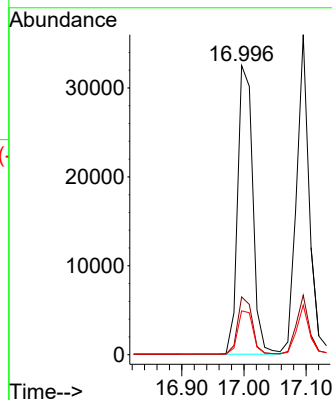
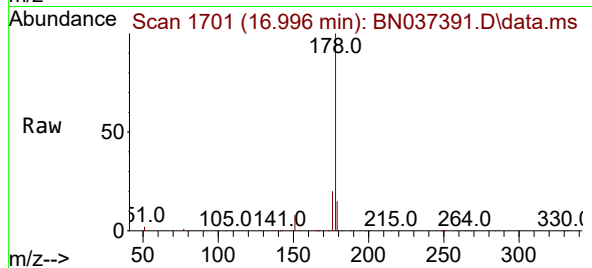
Tgt Ion:178 Resp: 54938

Ion Ratio Lower Upper

178 100

176 19.3 15.6 23.4

179 15.3 12.8 19.2



#26

Anthracene

Concen: 3.460 ng

RT: 17.095 min Scan# 1709

Delta R.T. -0.000 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

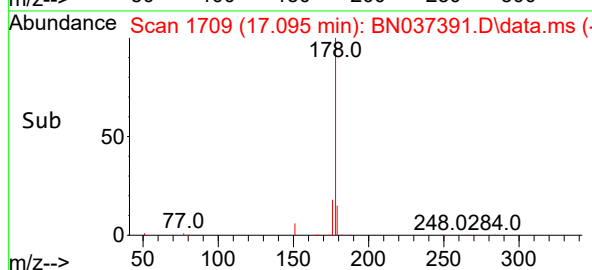
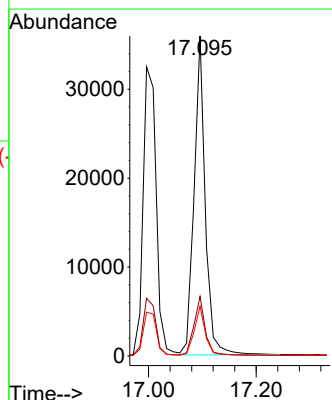
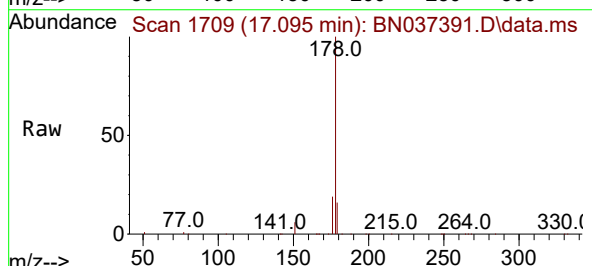
Tgt Ion:178 Resp: 51719

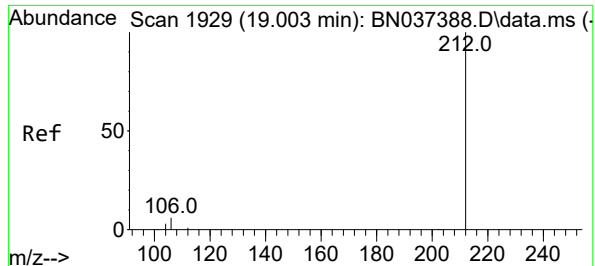
Ion Ratio Lower Upper

178 100

176 18.6 14.9 22.3

179 15.3 12.4 18.6





#27

Fluoranthene-d10

Concen: 3.221 ng

RT: 18.998 min Scan# 1928

Delta R.T. -0.005 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

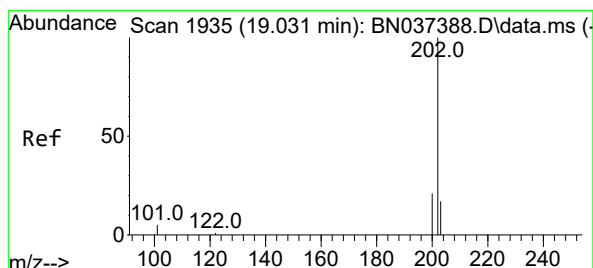
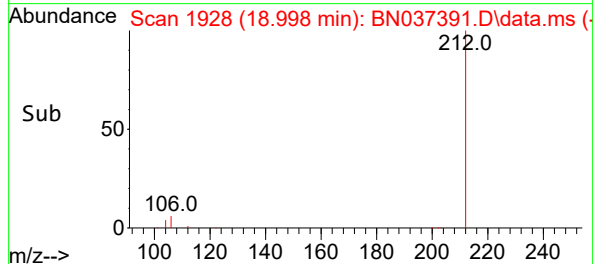
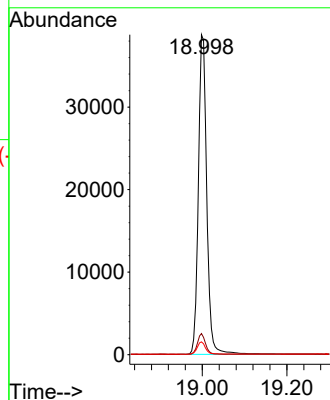
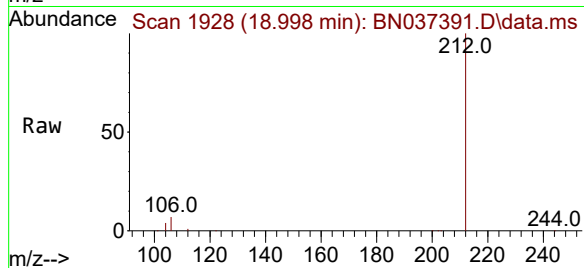
Tgt Ion:212 Resp: 53268

Ion Ratio Lower Upper

212 100

106 6.2 4.5 6.7

104 3.8 2.7 4.1



#28

Fluoranthene

Concen: 3.351 ng

RT: 19.031 min Scan# 1935

Delta R.T. -0.000 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

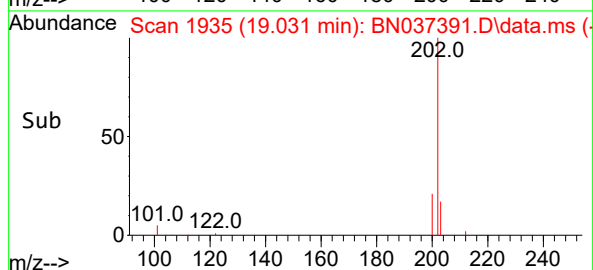
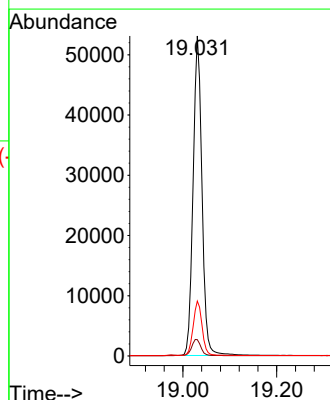
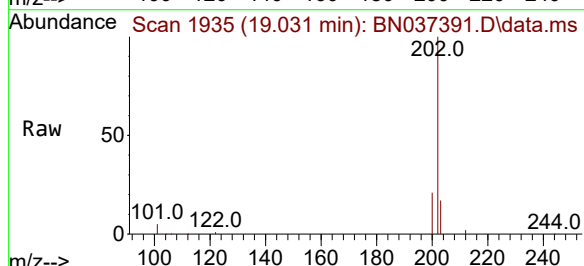
Tgt Ion:202 Resp: 69575

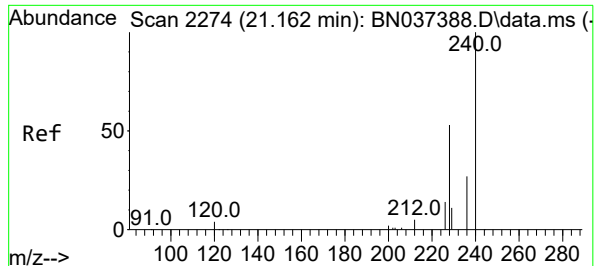
Ion Ratio Lower Upper

202 100

101 5.4 3.8 5.6

203 17.1 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

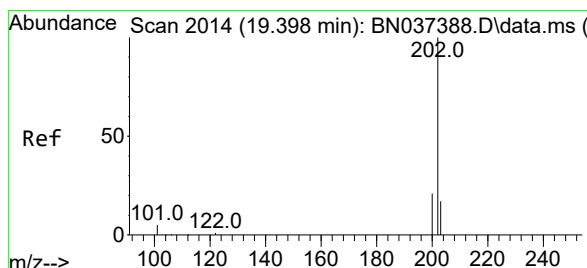
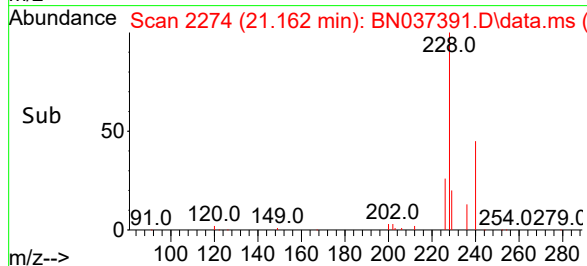
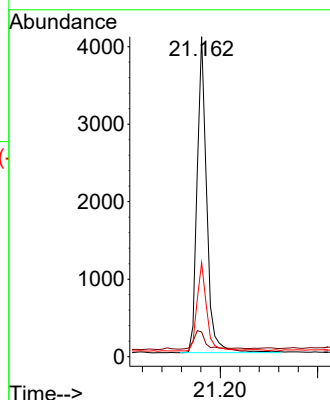
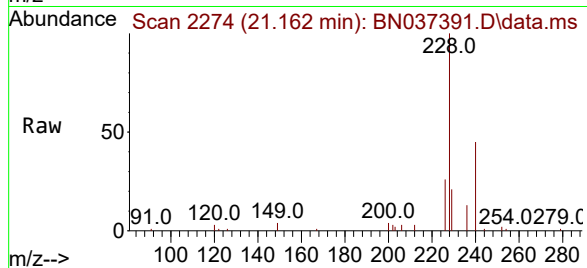
Tgt Ion:240 Resp: 5566

Ion Ratio Lower Upper

240 100

120 7.7 5.3 7.9

236 29.4 22.7 34.1



#30

Pyrene

Concen: 3.276 ng

RT: 19.393 min Scan# 2013

Delta R.T. -0.005 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

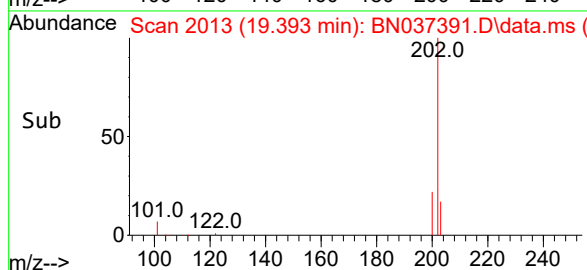
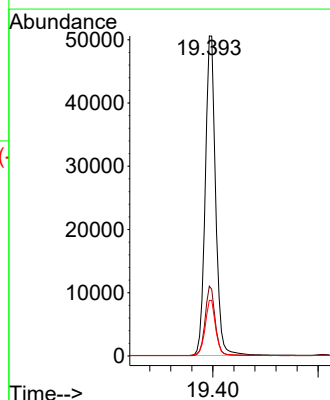
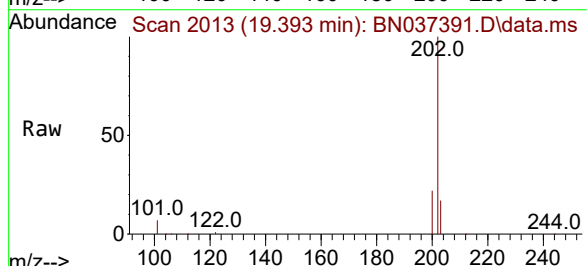
Tgt Ion:202 Resp: 69001

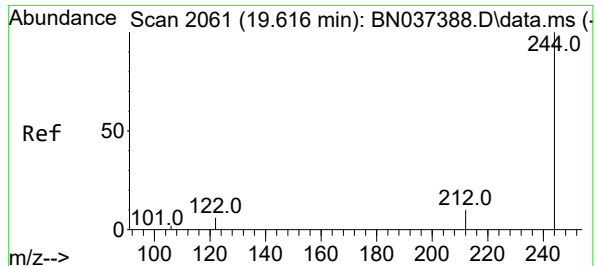
Ion Ratio Lower Upper

202 100

200 21.2 16.5 24.7

203 17.8 14.2 21.2

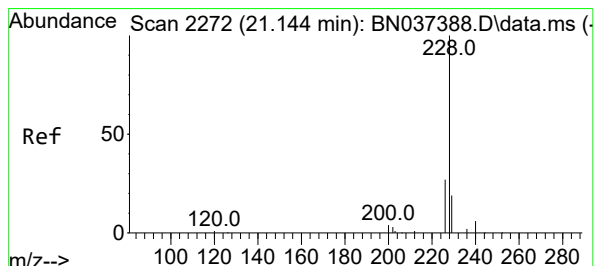
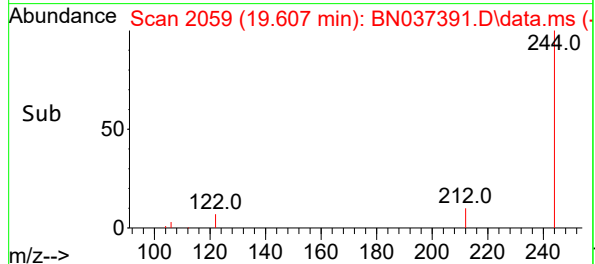
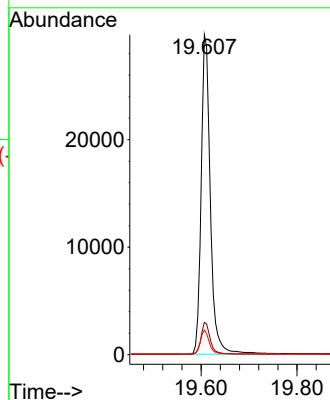
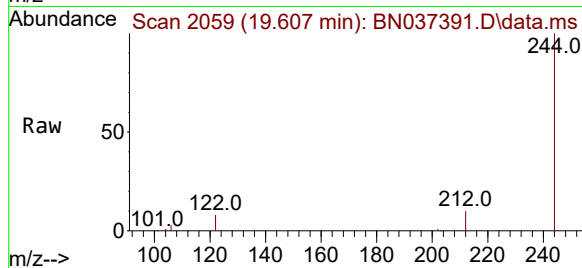




#31
Terphenyl-d14
Concen: 3.345 ng
RT: 19.607 min Scan# 2061
Delta R.T. -0.009 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

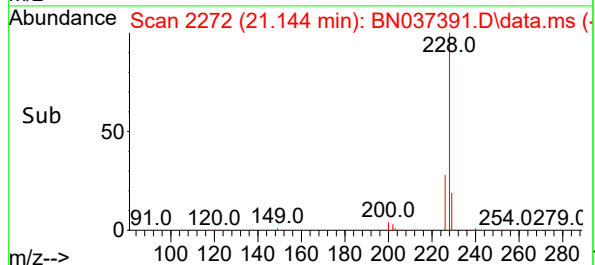
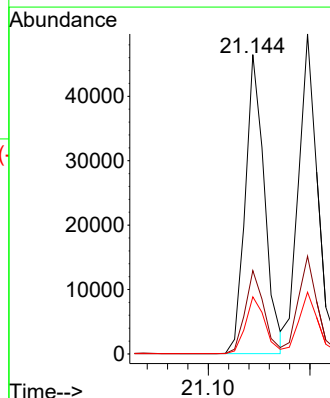
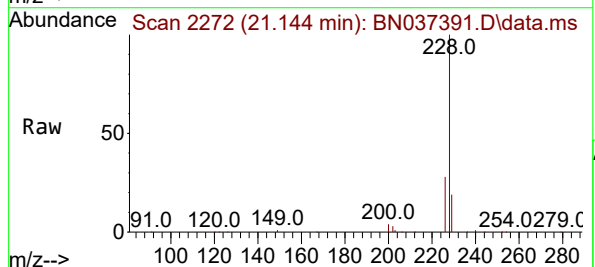
Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

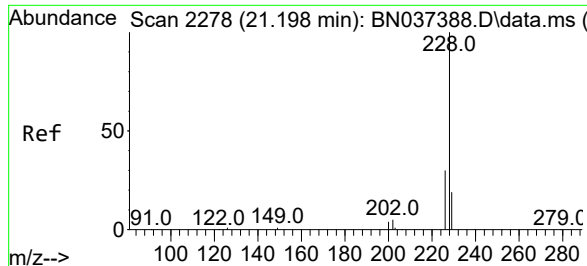
Tgt Ion:244 Resp: 39701
Ion Ratio Lower Upper
244 100
212 10.1 9.1 13.7
122 7.7 6.3 9.5



#32
Benzo(a)anthracene
Concen: 3.472 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037391.D
Acq: 26 Jun 2025 13:41

Tgt Ion:228 Resp: 60725
Ion Ratio Lower Upper
228 100
226 27.9 22.6 34.0
229 19.1 16.2 24.2





#33

Chrysene

Concen: 3.106 ng

RT: 21.198 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

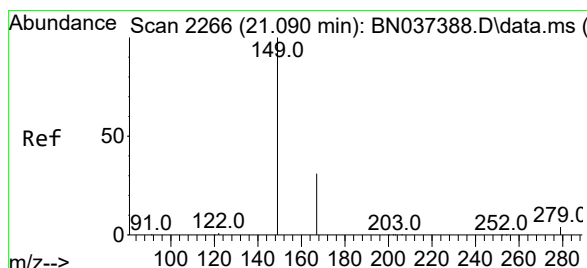
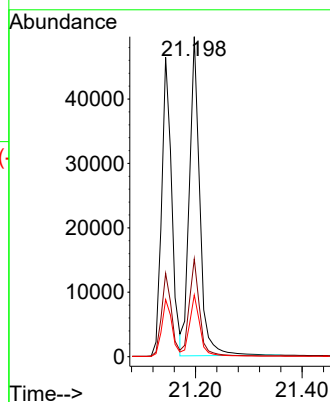
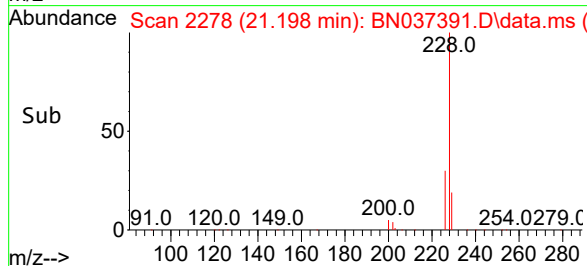
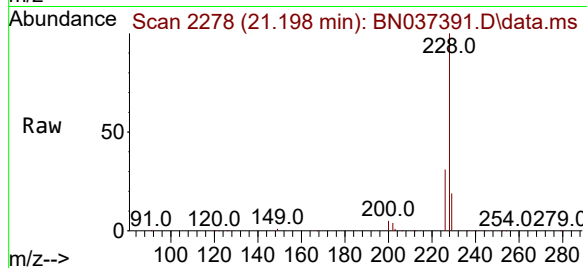
Tgt Ion:228 Resp: 67241

Ion Ratio Lower Upper

228 100

226 30.5 24.5 36.7

229 19.3 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.139 ng

RT: 21.090 min Scan# 2266

Delta R.T. -0.000 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

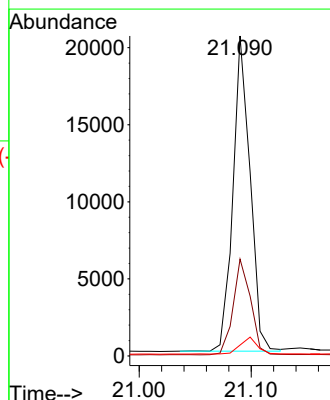
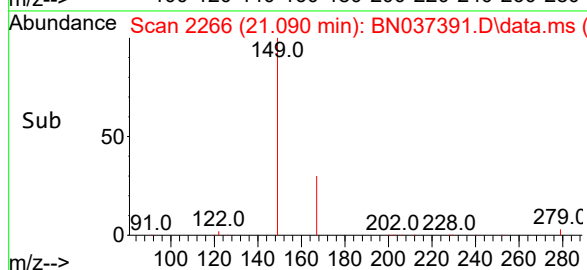
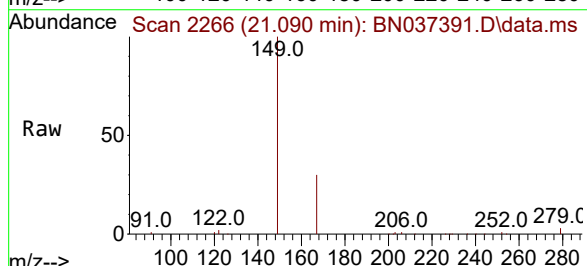
Tgt Ion:149 Resp: 21735

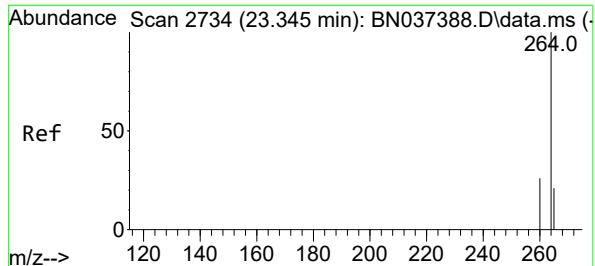
Ion Ratio Lower Upper

149 100

167 31.0 24.8 37.2

279 5.5 5.0 7.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.348 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

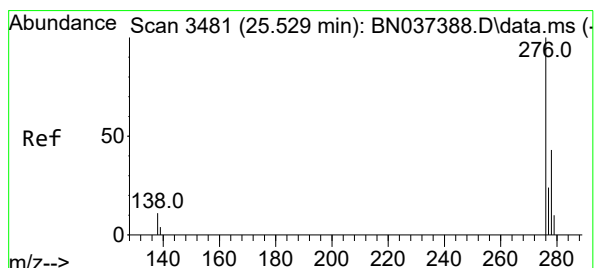
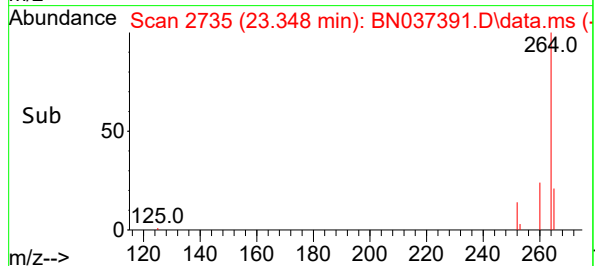
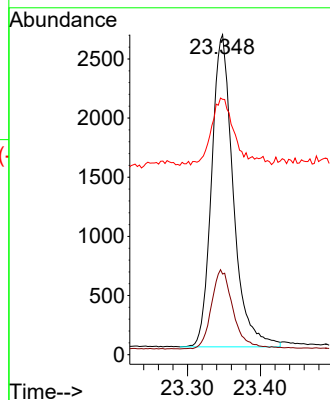
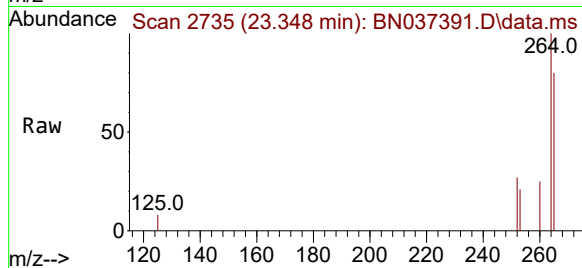
Tgt Ion:264 Resp: 5442

Ion Ratio Lower Upper

264 100

260 25.2 21.4 32.0

265 79.8 56.2 84.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.517 ng

RT: 25.526 min Scan# 3480

Delta R.T. -0.003 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

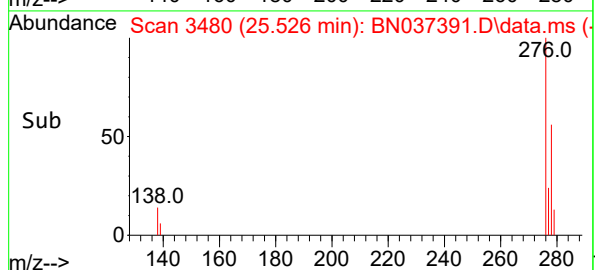
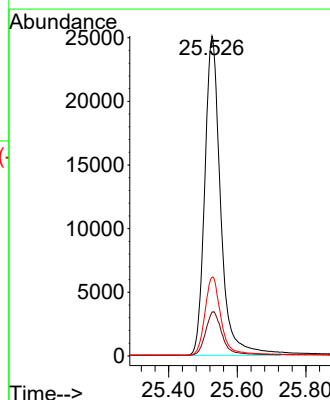
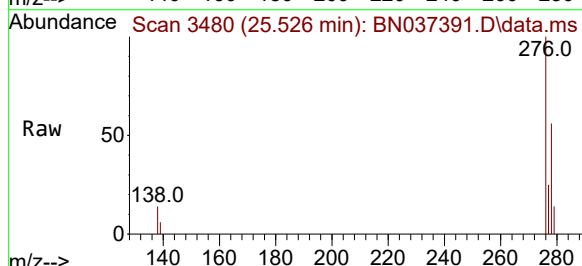
Tgt Ion:276 Resp: 80692

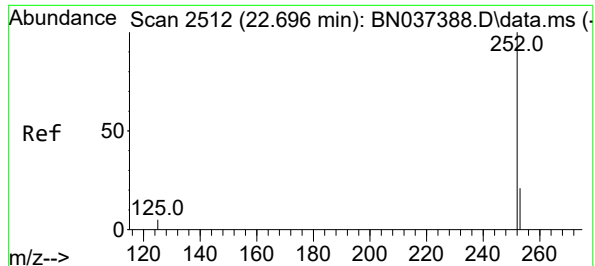
Ion Ratio Lower Upper

276 100

138 14.3 8.5 12.7#

277 24.7 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 3.412 ng

RT: 22.693 min Scan# 2511

Delta R.T. -0.003 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

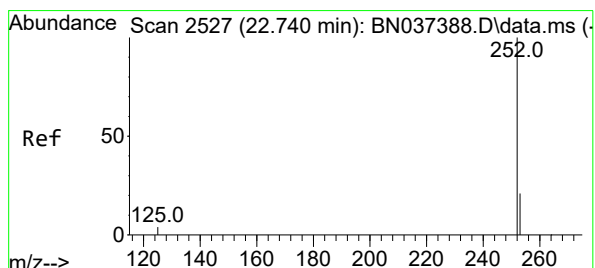
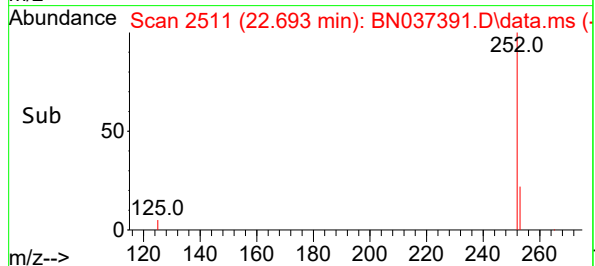
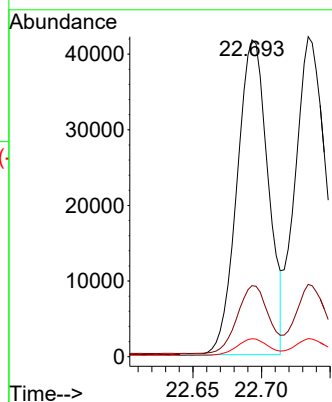
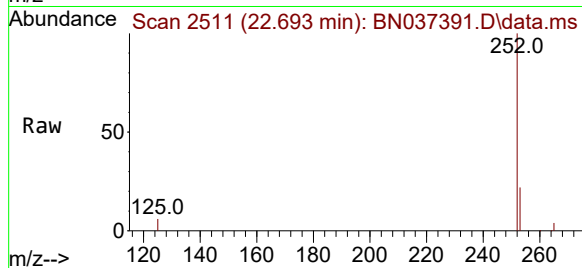
Tgt Ion:252 Resp: 65471

Ion Ratio Lower Upper

252 100

253 22.4 22.8 34.2#

125 5.6 6.2 9.4#



#38

Benzo(k)fluoranthene

Concen: 3.425 ng

RT: 22.734 min Scan# 2525

Delta R.T. -0.006 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

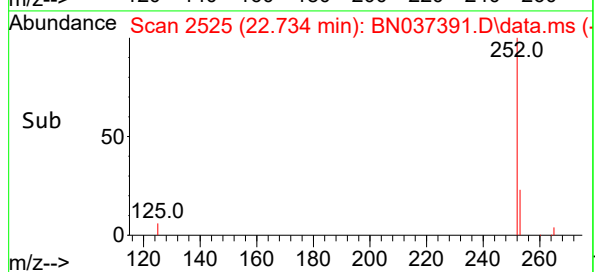
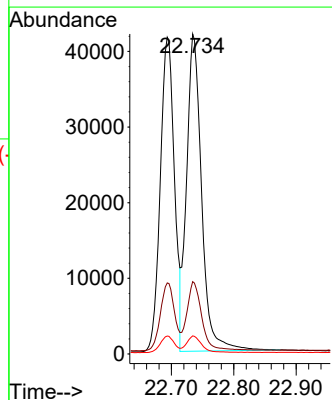
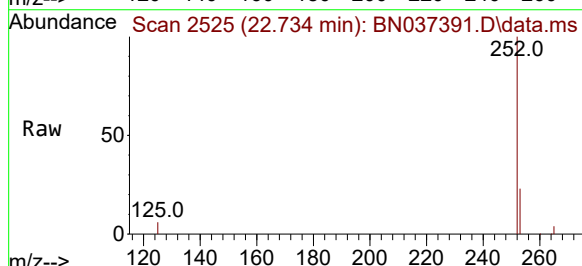
Tgt Ion:252 Resp: 70234

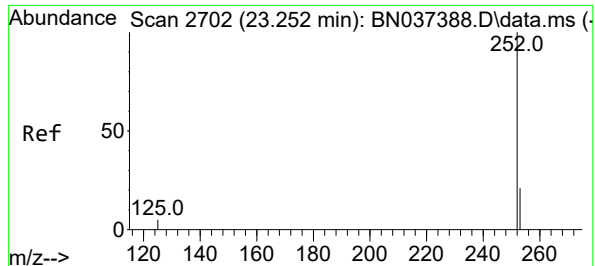
Ion Ratio Lower Upper

252 100

253 22.6 23.2 34.8#

125 5.6 6.0 9.0#





#39

Benzo(a)pyrene

Concen: 3.422 ng

RT: 23.252 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2

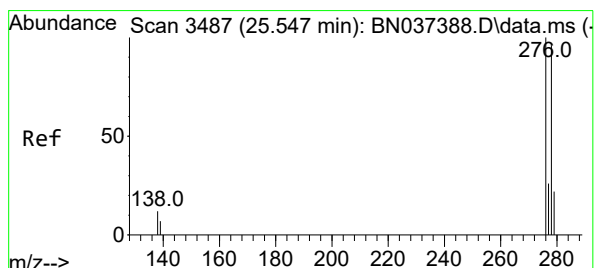
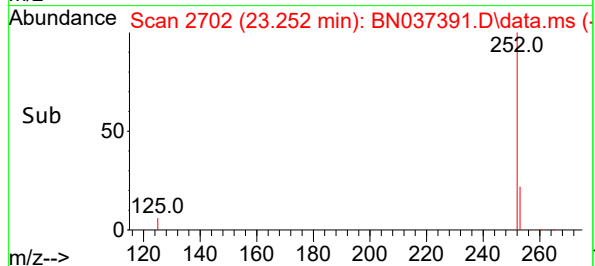
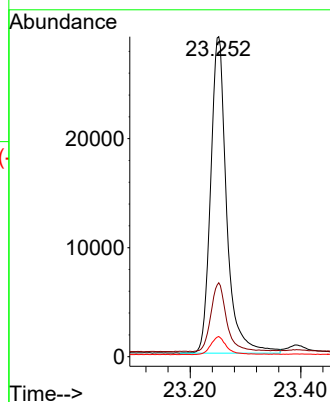
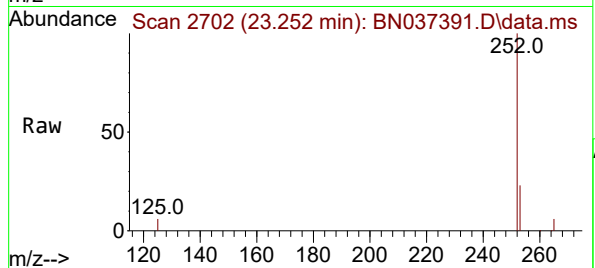
Tgt Ion:252 Resp: 58393

Ion Ratio Lower Upper

252 100

253 23.1 25.6 38.4#

125 6.3 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 3.668 ng

RT: 25.541 min Scan# 3485

Delta R.T. -0.006 min

Lab File: BN037391.D

Acq: 26 Jun 2025 13:41

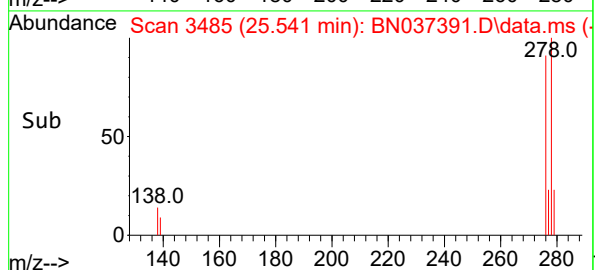
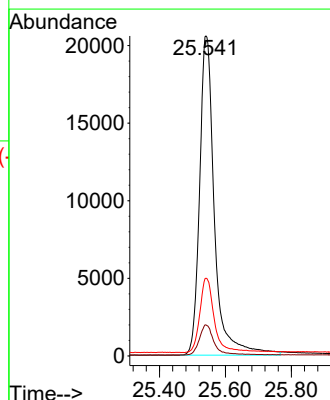
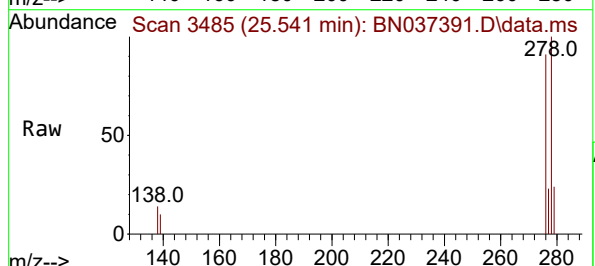
Tgt Ion:278 Resp: 64655

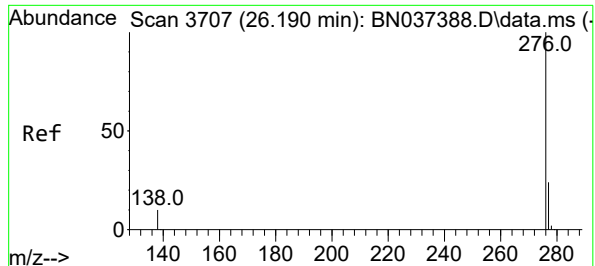
Ion Ratio Lower Upper

278 100

139 9.7 8.5 12.7

279 24.3 27.5 41.3#





#41

Benzo(g,h,i)perylene

Concen: 3.427 ng

RT: 26.187 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037391.D

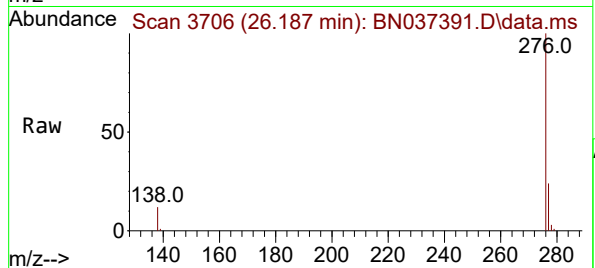
Acq: 26 Jun 2025 13:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC3.2



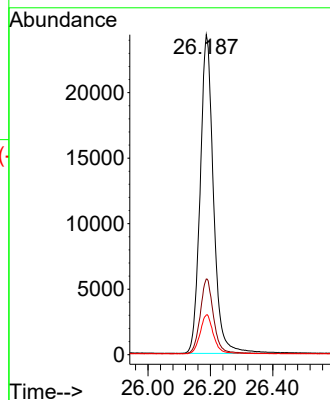
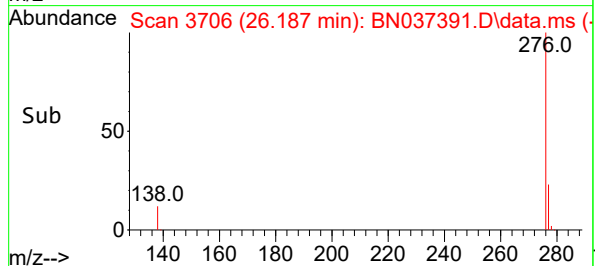
Tgt Ion:276 Resp: 72186

Ion Ratio Lower Upper

276 100

277 23.6 21.0 31.4

138 12.4 9.6 14.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
 Data File : BN037392.D
 Acq On : 26 Jun 2025 14:17
 Operator : RC/JU
 Sample : SSTDICC5.0
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC5.0

Quant Time: Jun 26 14:45:42 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 14:40:13 2025
 Response via : Initial Calibration

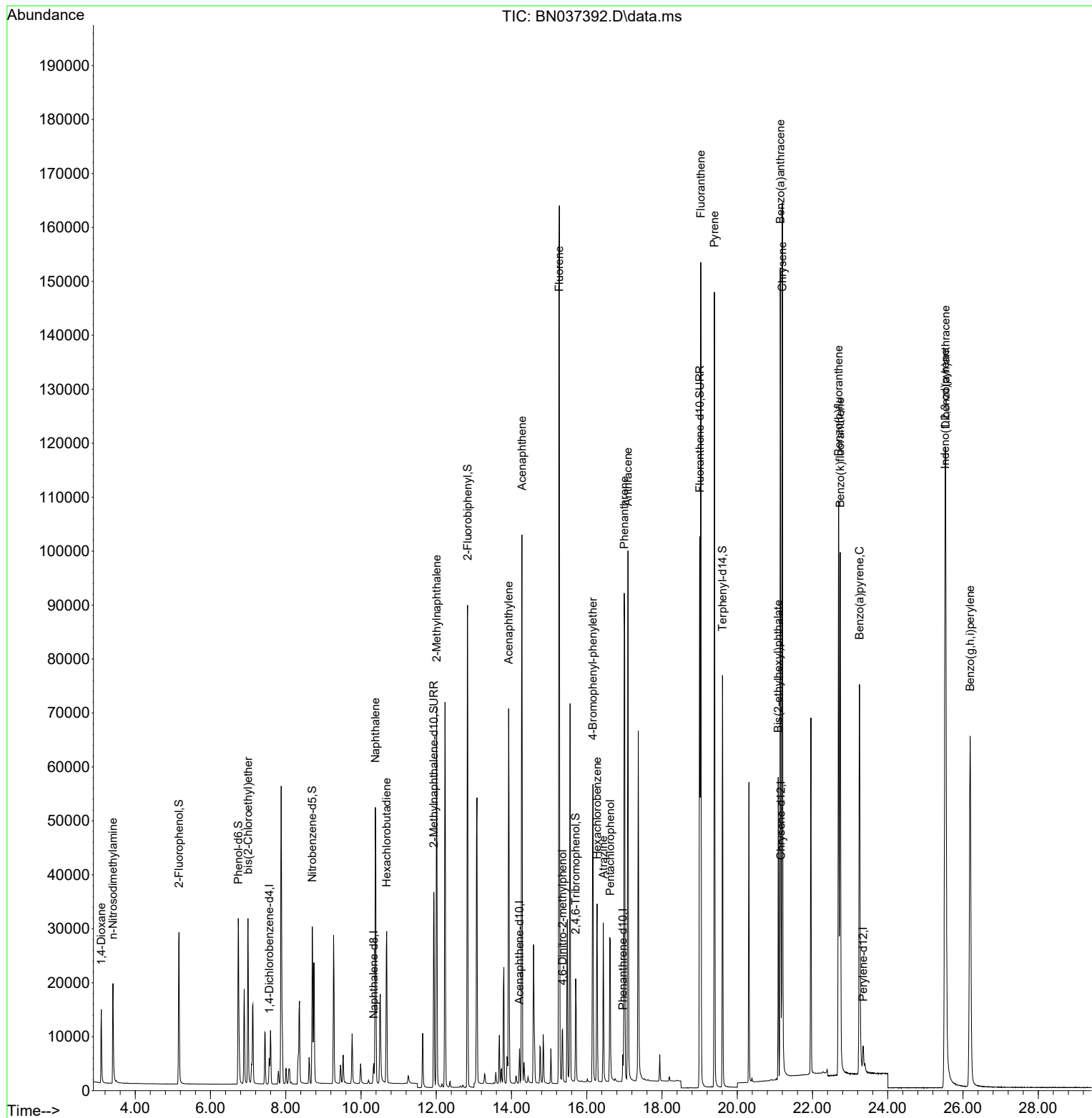
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.560	152	2311	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4753	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	3216	0.400	ng	0.00
19) Phenanthrene-d10	16.959	188	6554	0.400	ng	0.00
29) Chrysene-d12	21.162	240	6601	0.400	ng	0.00
35) Perylene-d12	23.345	264	6264	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	23643	5.308	ng	0.00
5) Phenol-d6	6.744	99	27480	5.950	ng	0.00
8) Nitrobenzene-d5	8.706	82	23095	6.041	ng	-0.01
11) 2-Methylnaphthalene-d10	11.935	152	47934	6.519	ng	0.00
14) 2,4,6-Tribromophenol	15.705	330	10881	5.768	ng	-0.01
15) 2-Fluorobiphenyl	12.833	172	76771	5.529	ng	0.00
27) Fluoranthene-d10	19.003	212	118571	6.313	ng	0.00
31) Terphenyl-d14	19.607	244	77795	5.527	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.097	88	9566	4.619	ng	95
3) n-Nitrosodimethylamine	3.408	42	10726	4.955	ng	# 90
6) bis(2-Chloroethyl)ether	6.997	93	22819	5.555	ng	96
9) Naphthalene	10.383	128	65119	5.322	ng	96
10) Hexachlorobutadiene	10.682	225	24052	4.952	ng	# 99
12) 2-Methylnaphthalene	12.011	142	47716	5.664	ng	96
16) Acenaphthylene	13.924	152	74682	5.600	ng	99
17) Acenaphthene	14.277	154	48364	5.553	ng	96
18) Fluorene	15.271	166	68578	5.576	ng	99
20) 4,6-Dinitro-2-methylph...	15.357	198	10525	6.252	ng	# 54
21) 4-Bromophenyl-phenylether	16.164	248	25866	5.594	ng	# 93
22) Hexachlorobenzene	16.276	284	25453	5.120	ng	98
23) Atrazine	16.437	200	21783	5.947	ng	95
24) Pentachlorophenol	16.624	266	14964	5.574	ng	96
25) Phenanthrene	16.996	178	105409	5.708	ng	99
26) Anthracene	17.095	178	100113	5.897	ng	100
28) Fluoranthene	19.031	202	133030	5.641	ng	# 99
30) Pyrene	19.393	202	132986	5.324	ng	99
32) Benzo(a)anthracene	21.144	228	119334	5.754	ng	99
33) Chrysene	21.197	228	127936	4.982	ng	99
34) Bis(2-ethylhexyl)phtha...	21.090	149	44321	5.397	ng	# 99
36) Indeno(1,2,3-cd)pyrene	25.523	276	154039	5.833	ng	# 96
37) Benzo(b)fluoranthene	22.693	252	127810	5.787	ng	# 90
38) Benzo(k)fluoranthene	22.737	252	132887	5.630	ng	# 89
39) Benzo(a)pyrene	23.248	252	111691	5.686	ng	# 85
40) Dibenzo(a,h)anthracene	25.538	278	122232	6.025	ng	# 86
41) Benzo(g,h,i)perylene	26.190	276	135052	5.570	ng	95

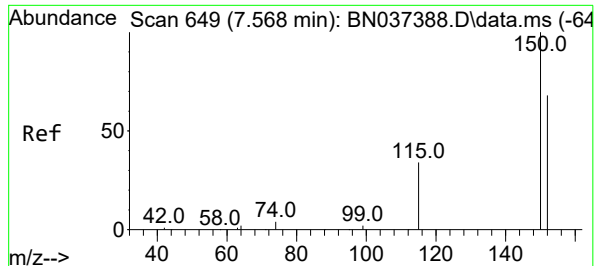
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037392.D
Acq On : 26 Jun 2025 14:17
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Jun 26 14:45:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 14:40:13 2025
Response via : Initial Calibration

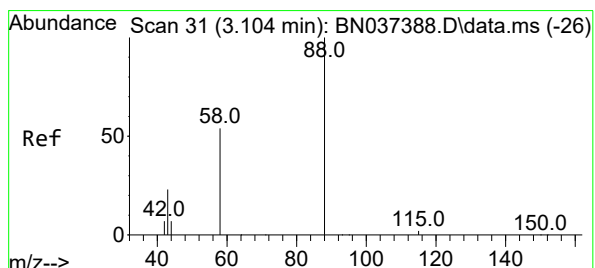
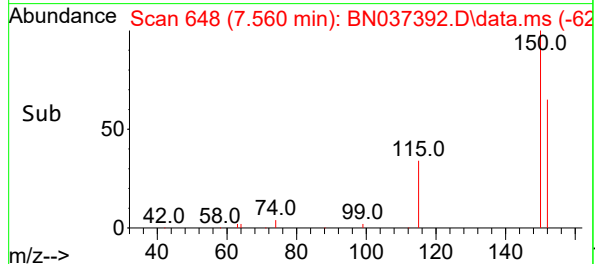
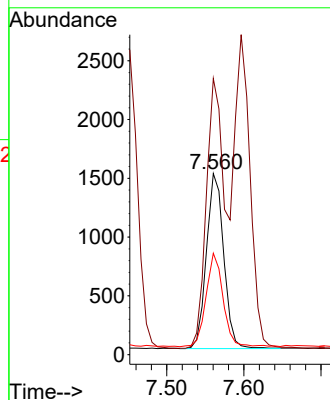
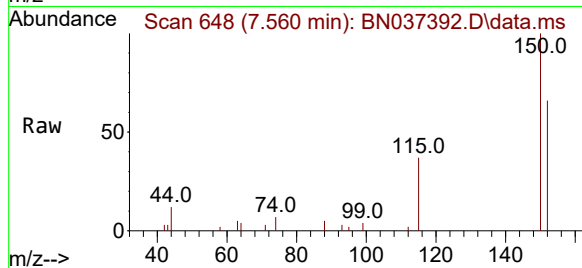




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

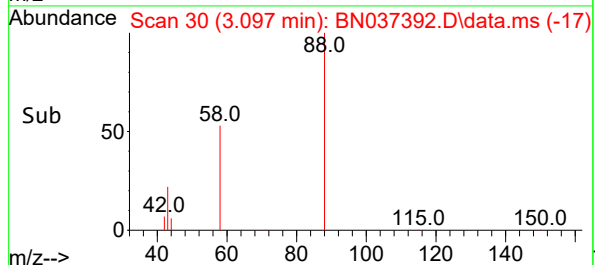
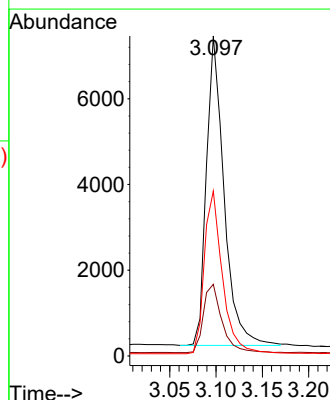
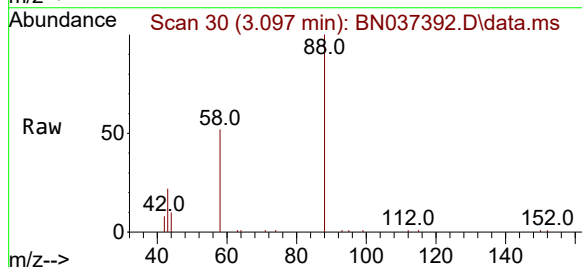
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

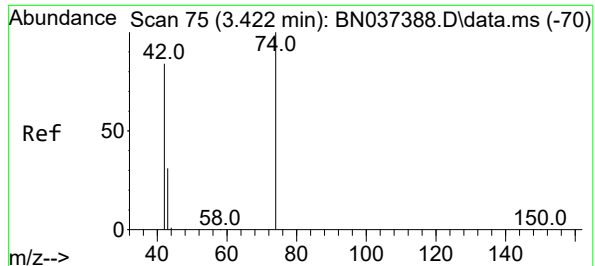
Tgt Ion:152 Resp: 2311
Ion Ratio Lower Upper
152 100
150 152.5 116.2 174.2
115 56.0 42.9 64.3



#2
1,4-Dioxane
Concen: 4.619 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion: 88 Resp: 9566
Ion Ratio Lower Upper
88 100
43 23.1 21.6 32.4
58 54.1 45.9 68.9

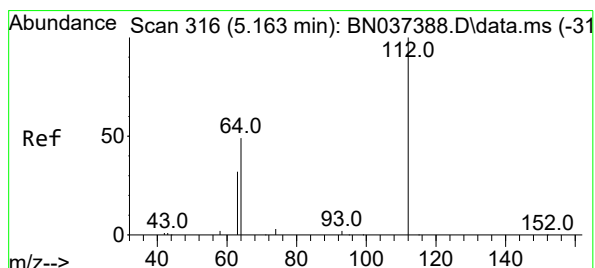
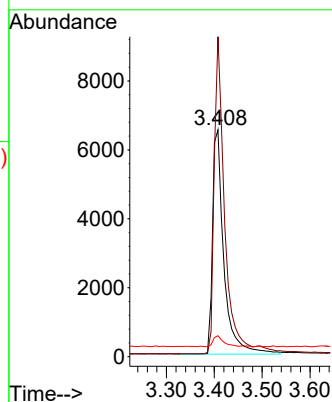
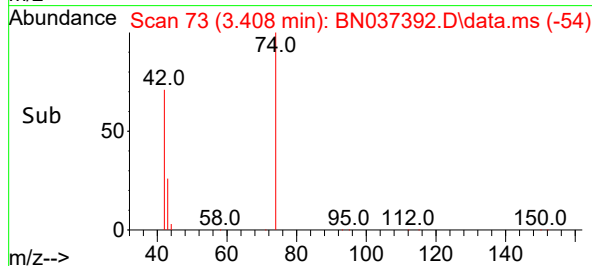
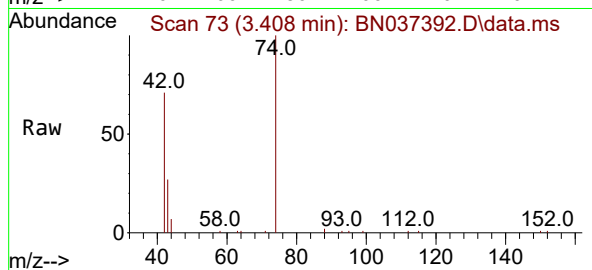




#3
n-Nitrosodimethylamine
Concen: 4.955 ng
RT: 3.408 min Scan# 71
Delta R.T. -0.015 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

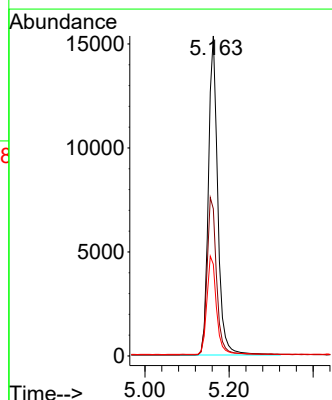
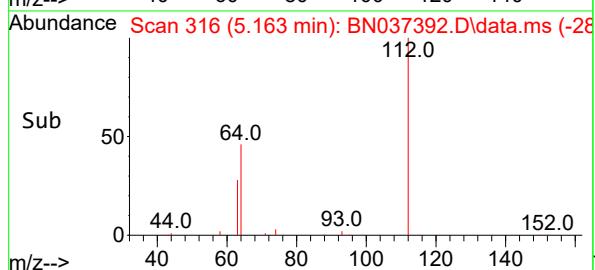
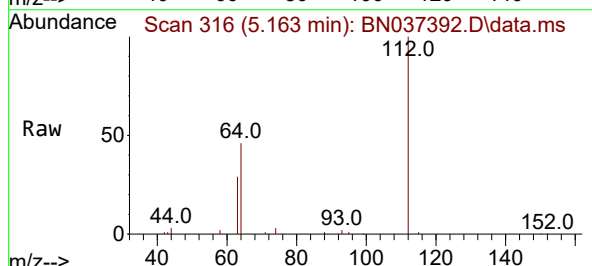
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

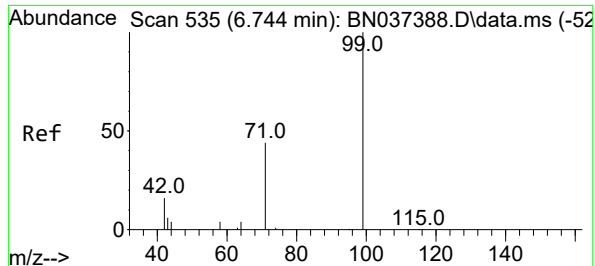
Tgt Ion: 42 Resp: 10726
Ion Ratio Lower Upper
42 100
74 133.1 97.8 146.8
44 4.5 8.7 13.1#



#4
2-Fluorophenol
Concen: 5.308 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion: 112 Resp: 23643
Ion Ratio Lower Upper
112 100
64 50.8 40.3 60.5
63 31.8 26.1 39.1

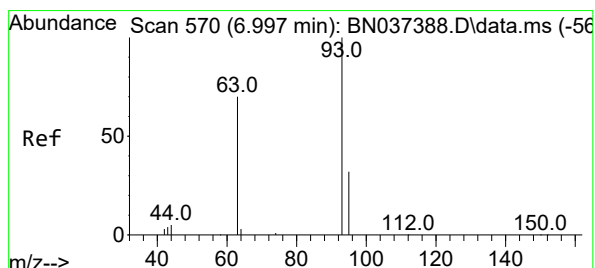
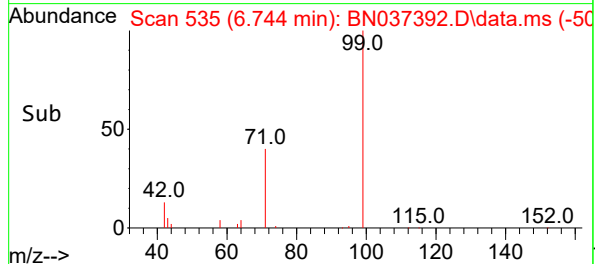
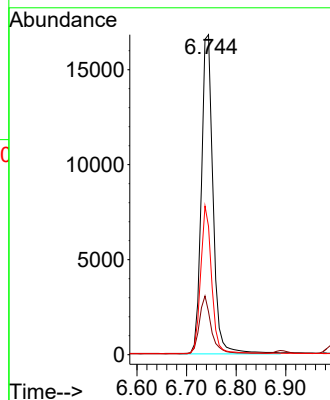
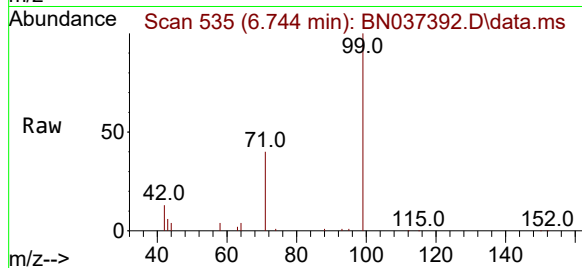




#5
Phenol-d6
Concen: 5.950 ng
RT: 6.744 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

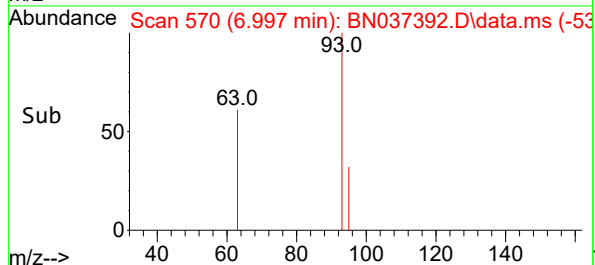
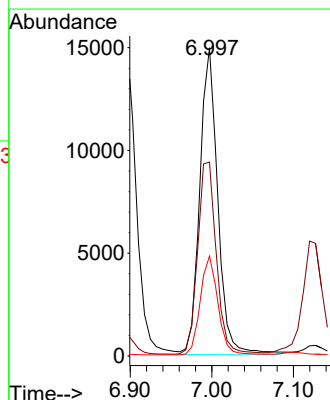
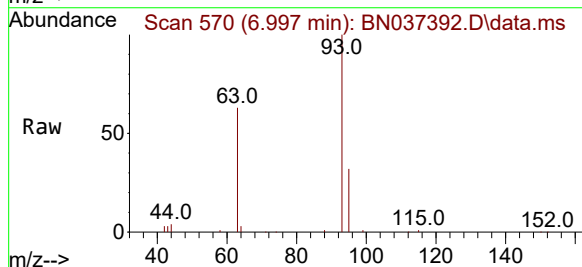
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

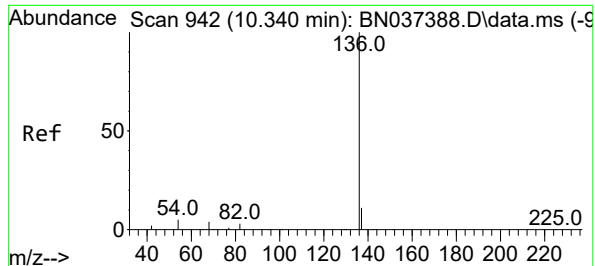
Tgt Ion	Ratio	Lower	Upper
99	100		
42	18.2	15.6	23.4
71	44.1	35.8	53.8



#6
bis(2-Chloroethyl)ether
Concen: 5.555 ng
RT: 6.997 min Scan# 570
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion	Ratio	Lower	Upper
93	100		
63	65.3	49.6	74.4
95	31.7	23.9	35.9

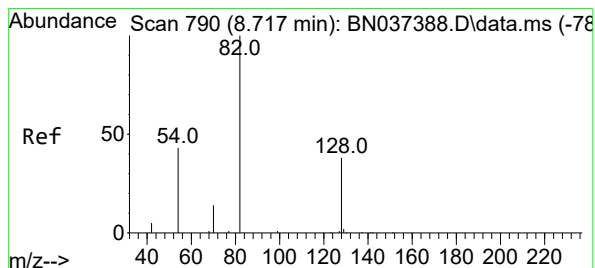
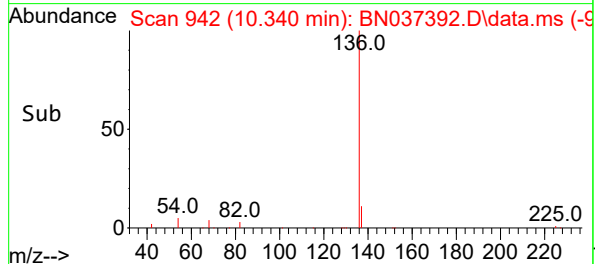
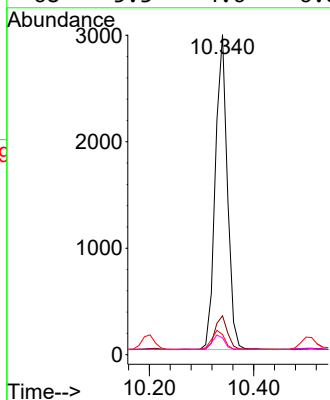
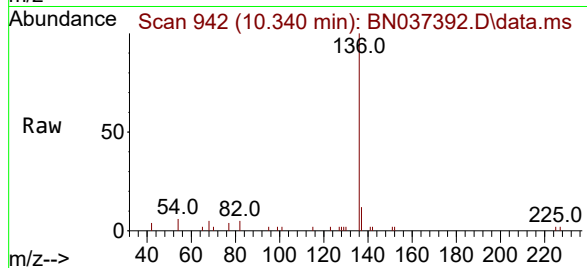




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

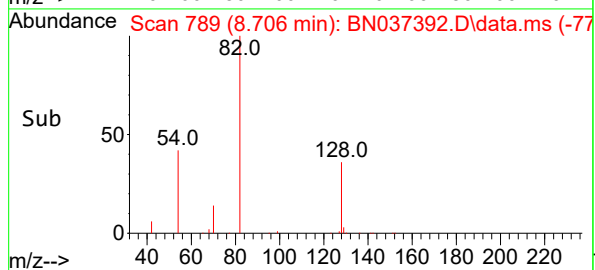
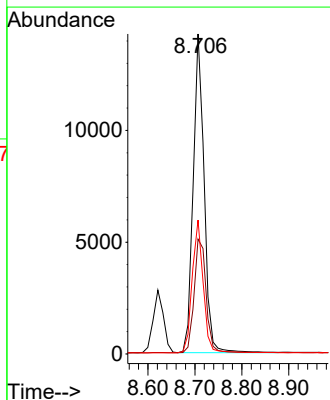
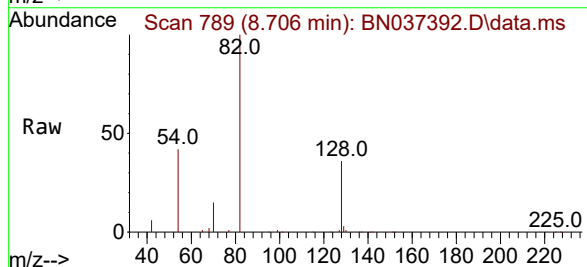
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

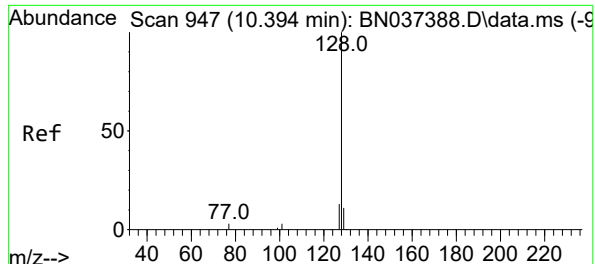
Tgt Ion:136	Resp:	4753
Ion	Ratio	Lower Upper
136	100	
137	12.1	10.4 15.6
54	6.3	5.6 8.4
68	5.3	4.6 6.8



#8
Nitrobenzene-d5
Concen: 6.041 ng
RT: 8.706 min Scan# 789
Delta R.T. -0.011 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion: 82	Resp:	23095
Ion	Ratio	Lower Upper
82	100	
128	35.9	34.0 51.0
54	41.9	37.7 56.5

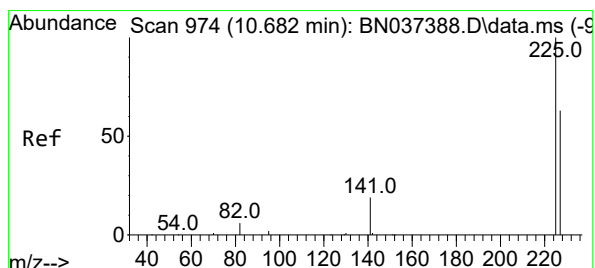
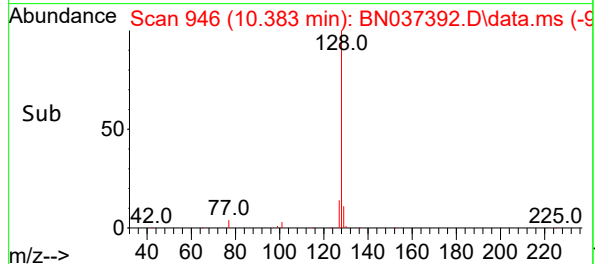
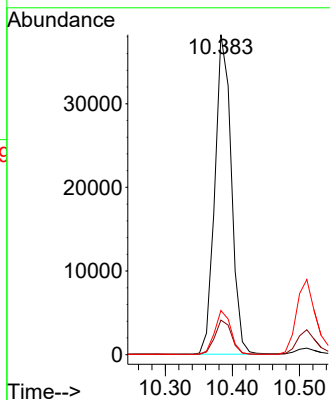
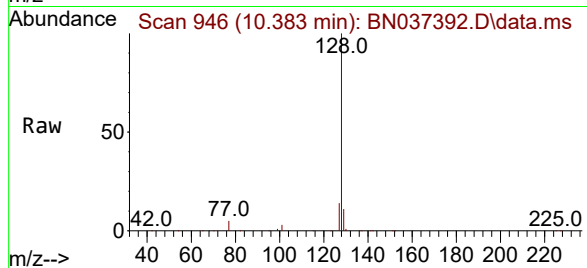




#9
Naphthalene
Concen: 5.322 ng
RT: 10.383 min Scan# 947
Delta R.T. -0.011 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

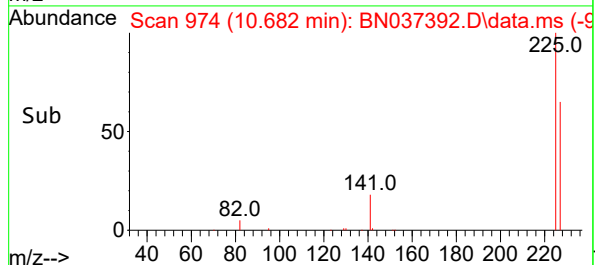
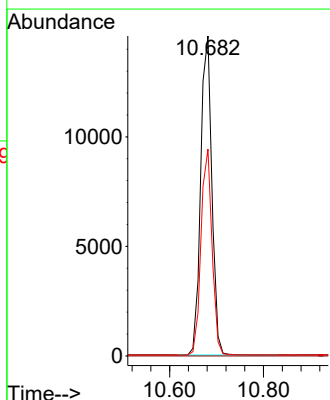
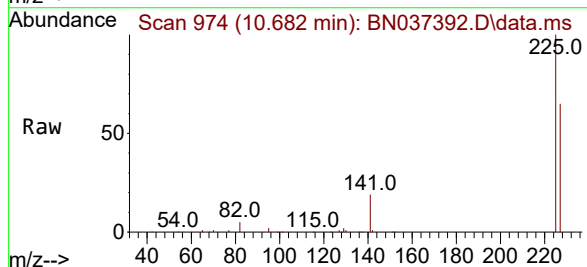
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

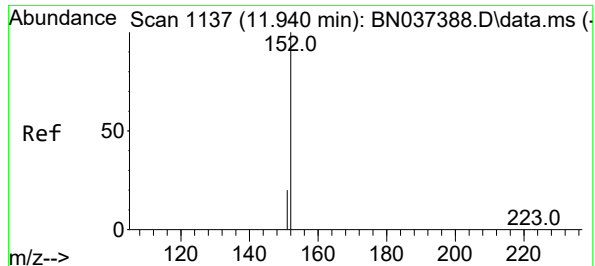
Tgt Ion:128 Resp: 65119
Ion Ratio Lower Upper
128 100
129 10.8 10.4 15.6
127 13.8 12.2 18.4



#10
Hexachlorobutadiene
Concen: 4.952 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:225 Resp: 24052
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.4 49.9 74.9

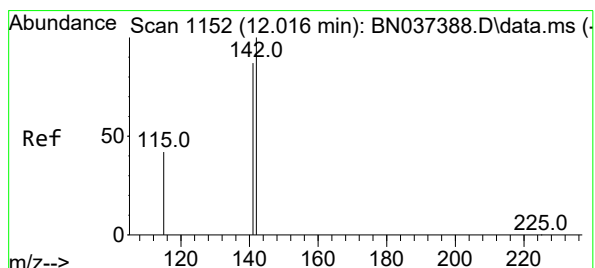
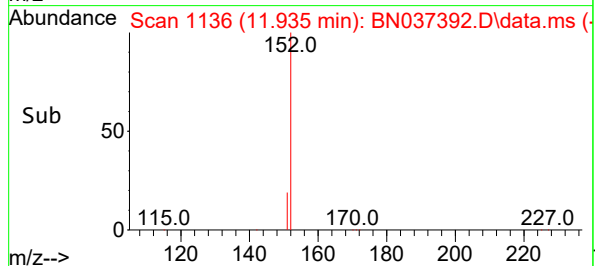
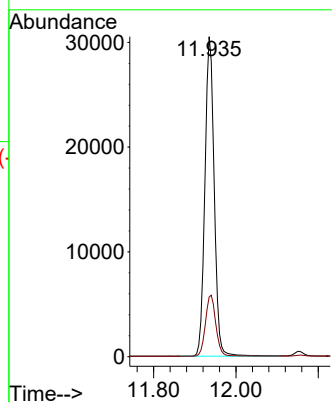
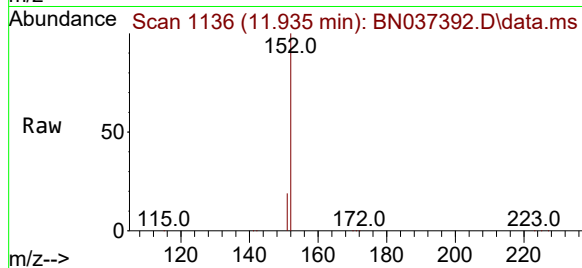




#11
2-Methylnaphthalene-d10
Concen: 6.519 ng
RT: 11.935 min Scan# 1136
Delta R.T. -0.005 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

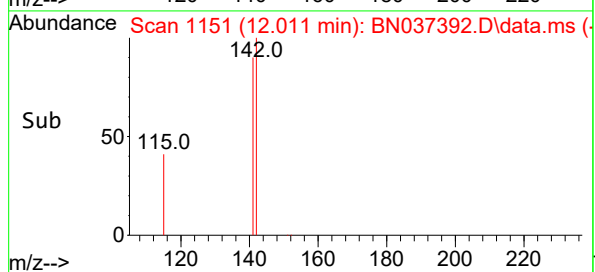
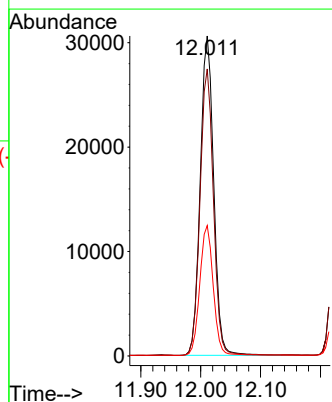
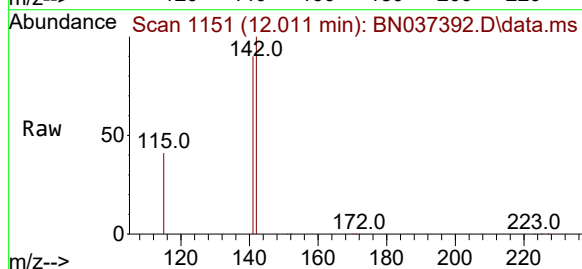
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

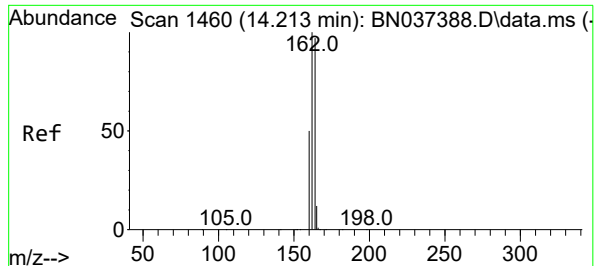
Tgt Ion:152 Resp: 47934
Ion Ratio Lower Upper
152 100
151 21.4 18.4 27.6



#12
2-Methylnaphthalene
Concen: 5.664 ng
RT: 12.011 min Scan# 1151
Delta R.T. -0.005 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:142 Resp: 47716
Ion Ratio Lower Upper
142 100
141 89.7 70.1 105.1
115 40.7 35.8 53.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.213 min Scan# 14

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

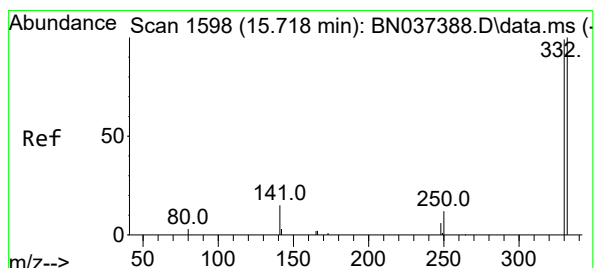
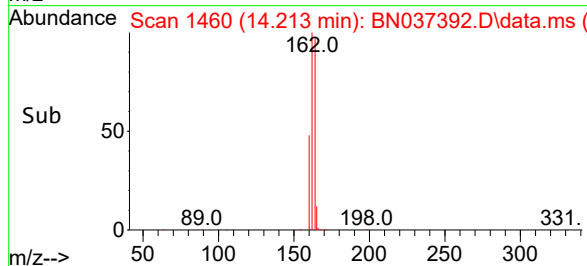
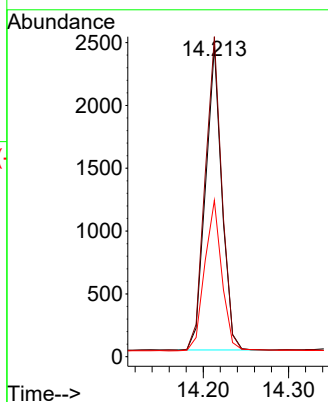
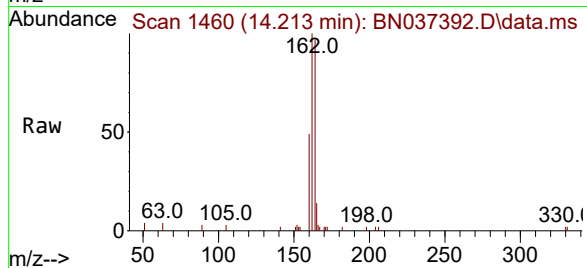
Tgt Ion:164 Resp: 3216

Ion Ratio Lower Upper

164 100

162 103.1 82.6 123.8

160 50.4 42.2 63.2



#14

2,4,6-Tribromophenol

Concen: 5.768 ng

RT: 15.705 min Scan# 1597

Delta R.T. -0.013 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

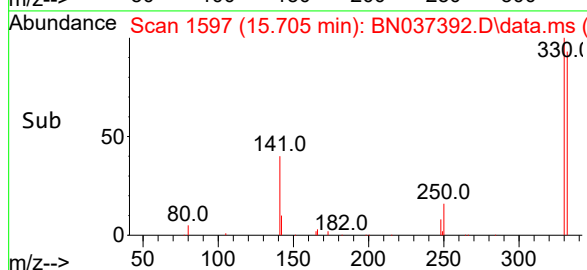
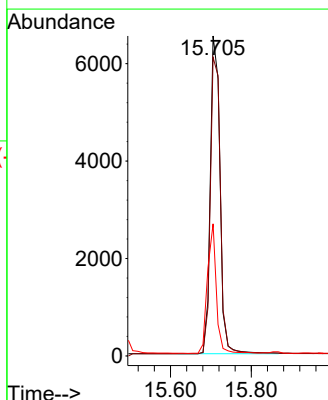
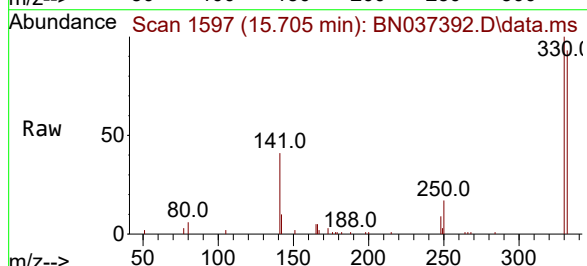
Tgt Ion:330 Resp: 10881

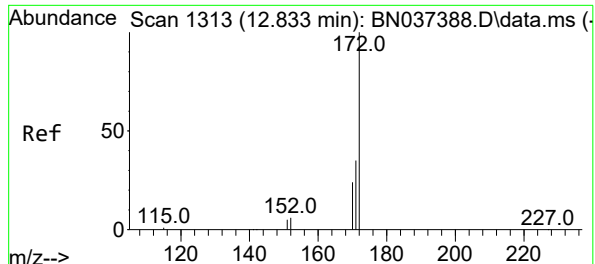
Ion Ratio Lower Upper

330 100

332 96.8 77.8 116.8

141 37.2 24.0 36.0#





#15

2-Fluorobiphenyl

Concen: 5.529 ng

RT: 12.833 min Scan# 1313

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

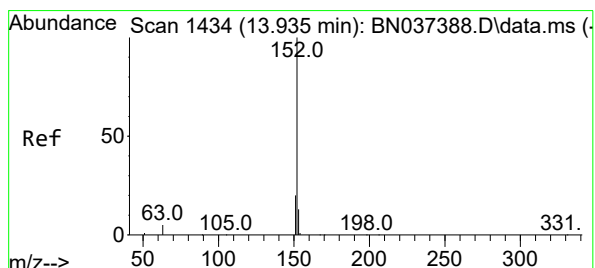
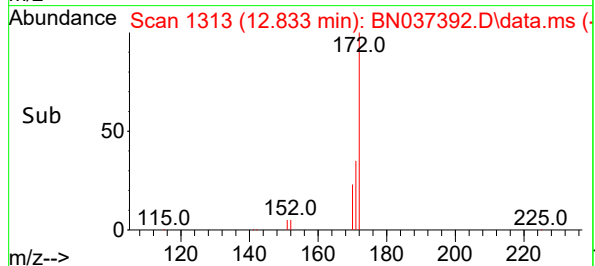
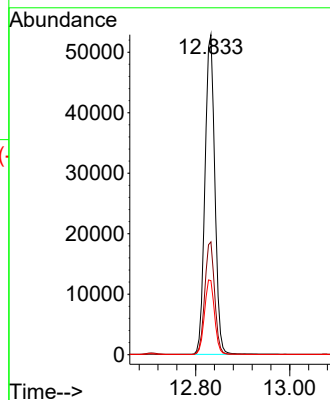
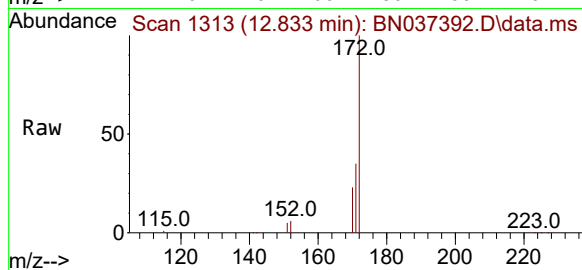
Tgt Ion:172 Resp: 76771

Ion Ratio Lower Upper

172 100

171 35.3 28.8 43.2

170 23.2 20.3 30.5



#16

Acenaphthylene

Concen: 5.600 ng

RT: 13.924 min Scan# 1433

Delta R.T. -0.011 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

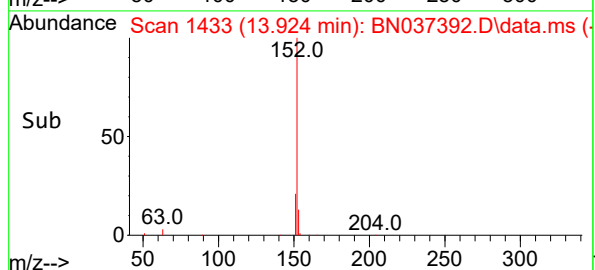
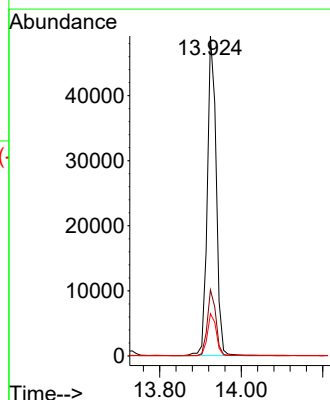
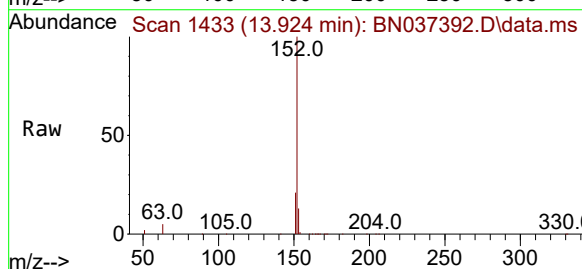
Tgt Ion:152 Resp: 74682

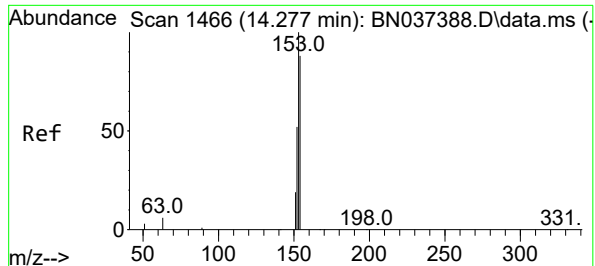
Ion Ratio Lower Upper

152 100

151 19.9 15.8 23.6

153 13.1 10.3 15.5

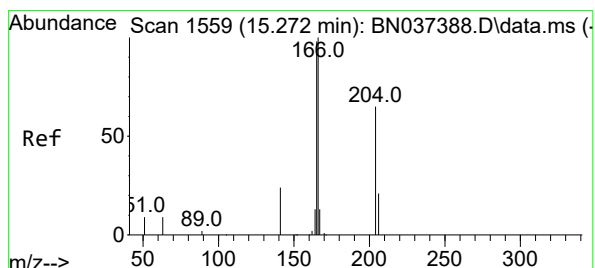
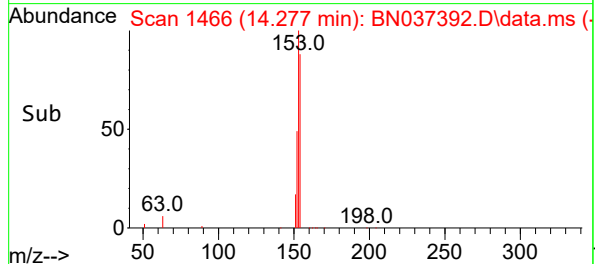
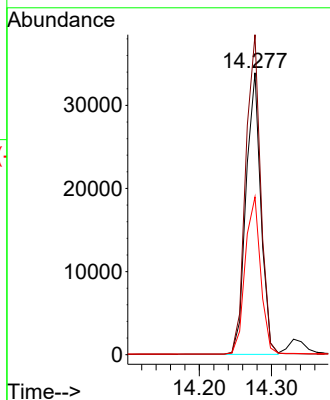
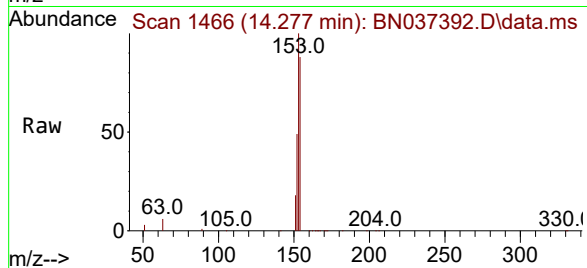




#17
Acenaphthene
Concen: 5.553 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

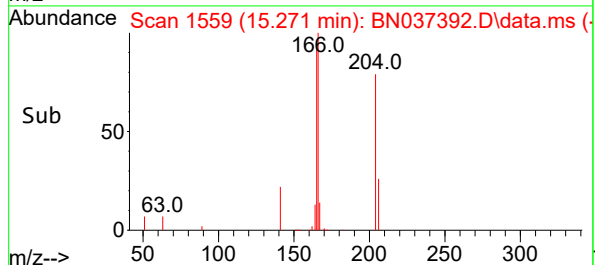
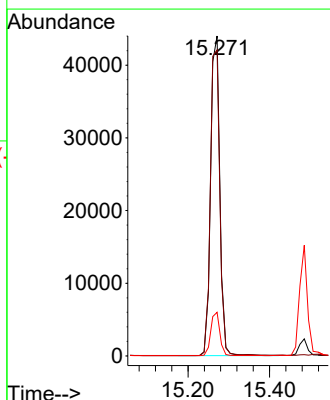
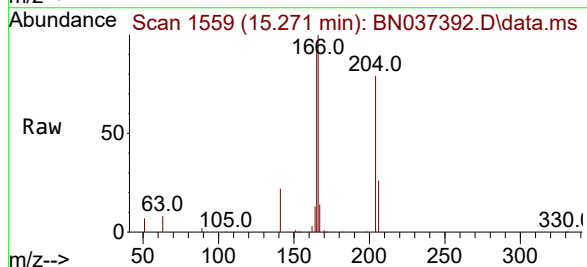
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

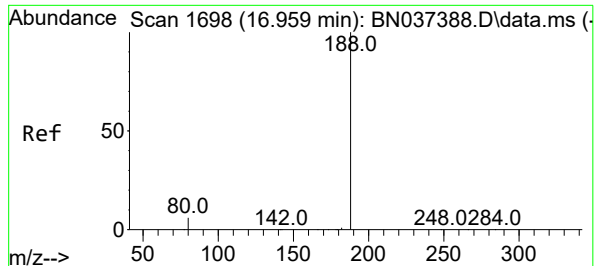
Tgt Ion:154 Resp: 48364
Ion Ratio Lower Upper
154 100
153 115.1 94.6 141.8
152 58.6 50.2 75.2



#18
Fluorene
Concen: 5.576 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:166 Resp: 68578
Ion Ratio Lower Upper
166 100
165 98.3 79.4 119.2
167 13.4 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.959 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

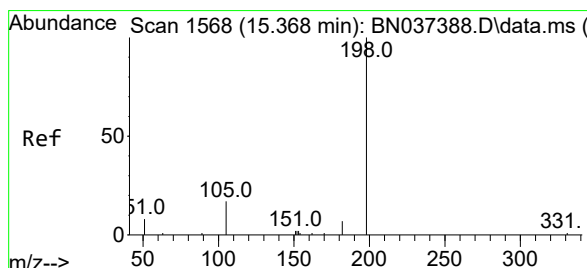
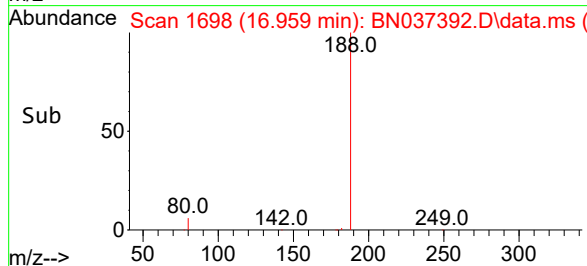
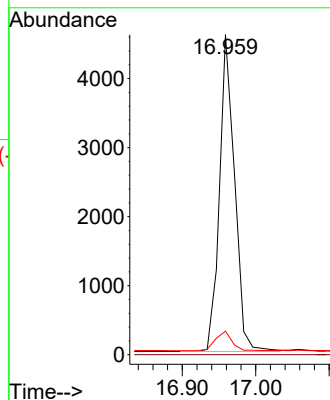
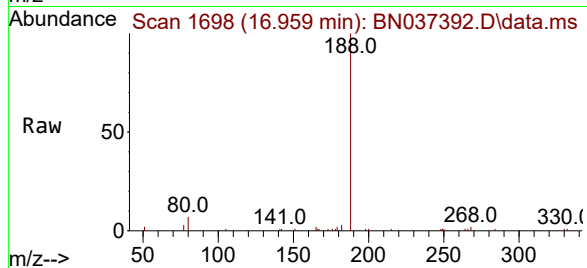
Tgt Ion:188 Resp: 6554

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.4 6.2 9.4



#20

4,6-Dinitro-2-methylphenol

Concen: 6.252 ng

RT: 15.357 min Scan# 1567

Delta R.T. -0.011 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

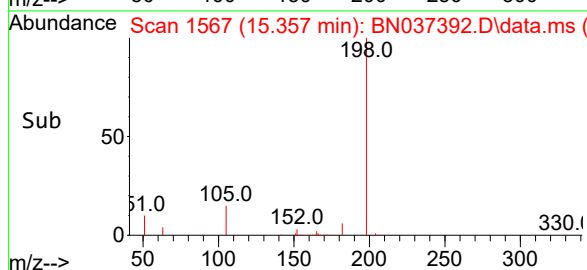
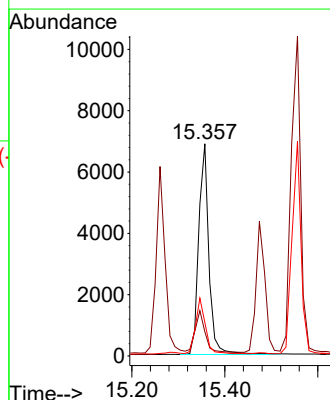
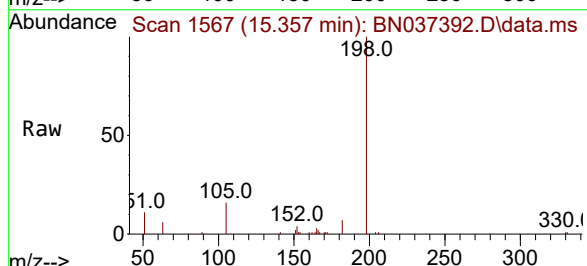
Tgt Ion:198 Resp: 10525

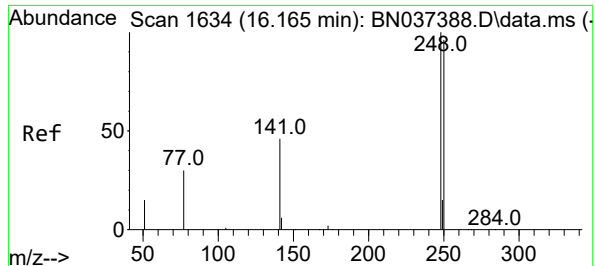
Ion Ratio Lower Upper

198 100

51 11.4 38.8 58.2#

105 15.8 29.8 44.6#





#21

4-Bromophenyl-phenylether

Concen: 5.594 ng

RT: 16.164 min Scan# 1634

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

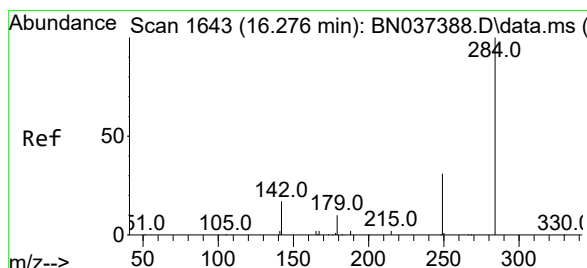
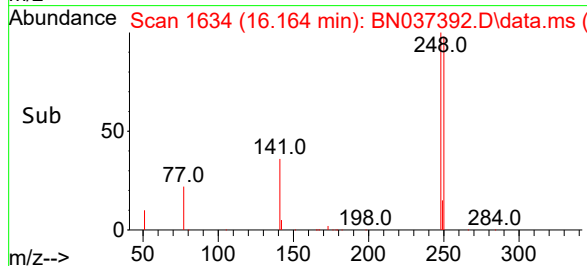
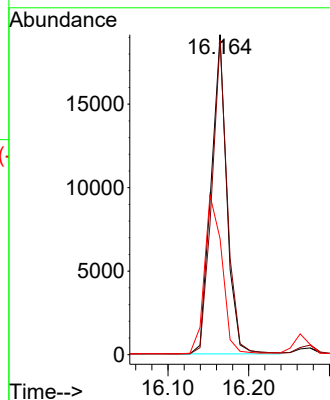
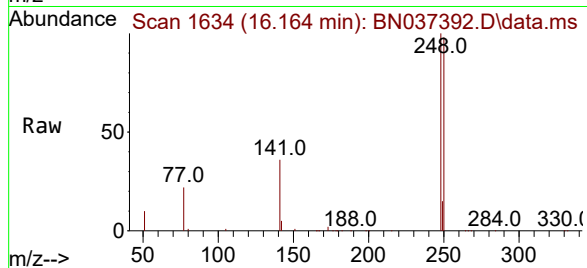
Tgt Ion:248 Resp: 25866

Ion Ratio Lower Upper

248 100

250 98.4 77.0 115.4

141 36.3 38.7 58.1#



#22

Hexachlorobenzene

Concen: 5.120 ng

RT: 16.276 min Scan# 1643

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

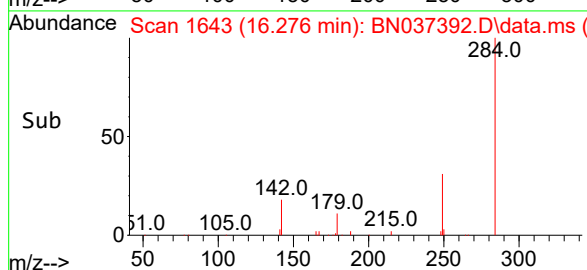
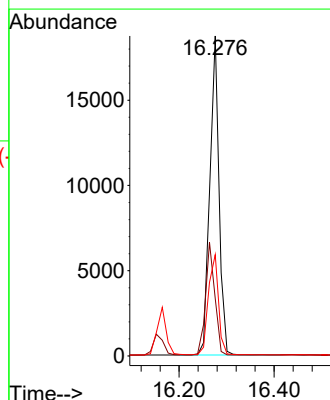
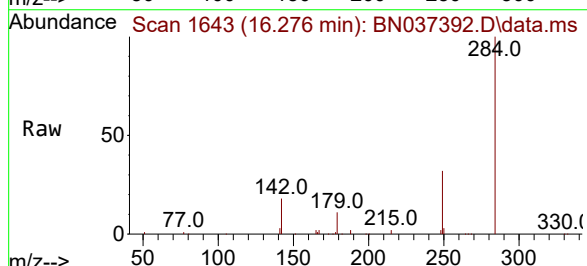
Tgt Ion:284 Resp: 25453

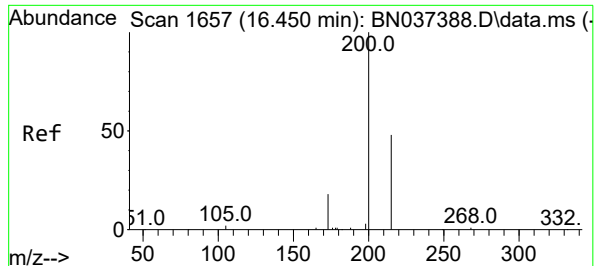
Ion Ratio Lower Upper

284 100

142 35.3 27.2 40.8

249 34.4 26.7 40.1





#23

Atrazine

Concen: 5.947 ng

RT: 16.437 min Scan# 1656

Delta R.T. -0.013 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

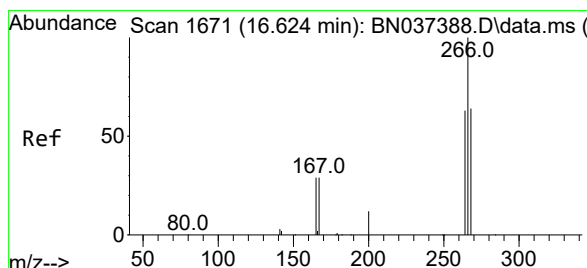
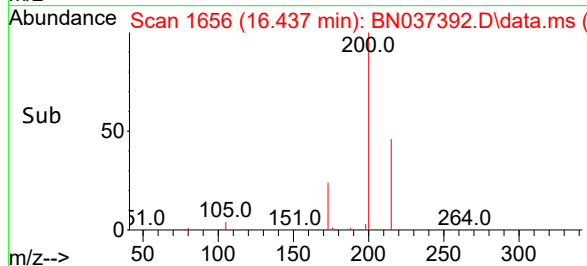
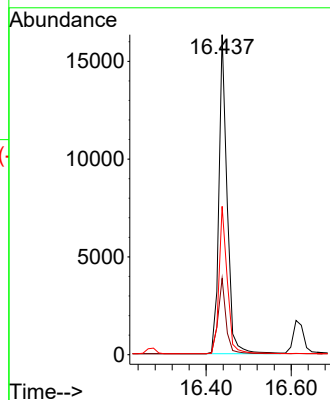
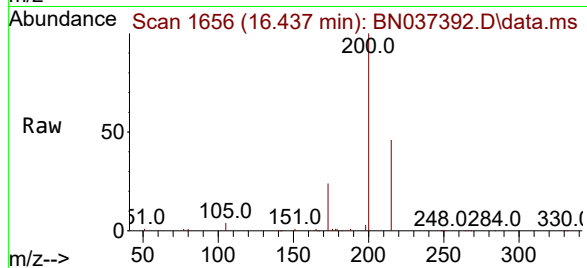
Tgt Ion:200 Resp: 21783

Ion Ratio Lower Upper

200 100

173 23.9 19.0 28.6

215 46.3 41.3 61.9



#24

Pentachlorophenol

Concen: 5.574 ng

RT: 16.624 min Scan# 1671

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

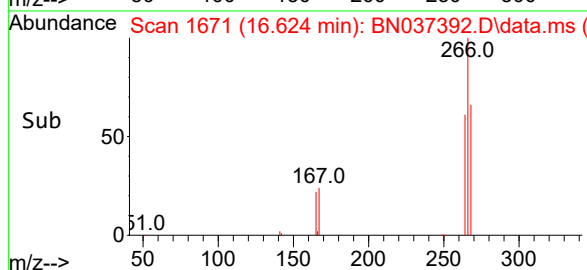
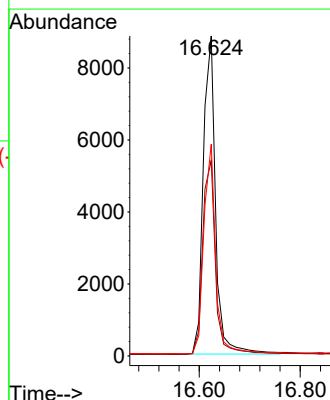
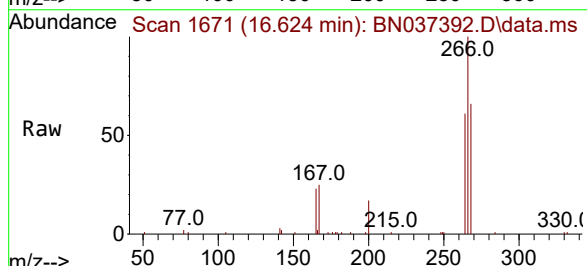
Tgt Ion:266 Resp: 14964

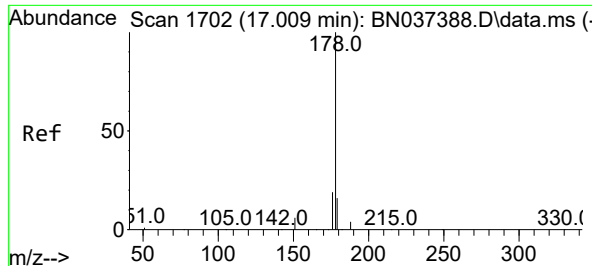
Ion Ratio Lower Upper

266 100

264 63.4 49.2 73.8

268 64.1 54.2 81.4

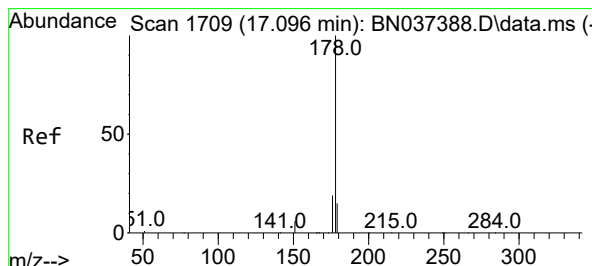
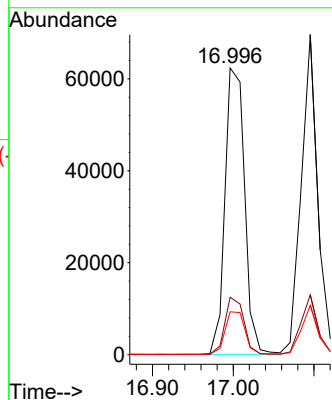
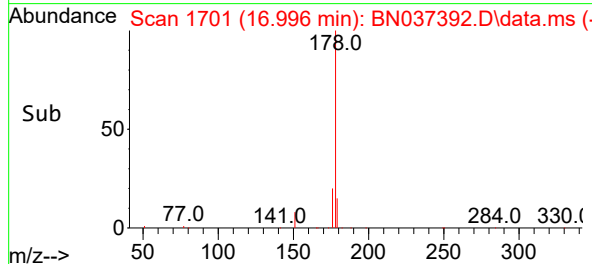
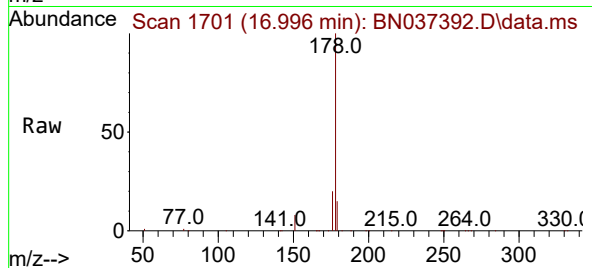




#25
Phenanthrene
Concen: 5.708 ng
RT: 16.996 min Scan# 1701
Delta R.T. -0.013 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

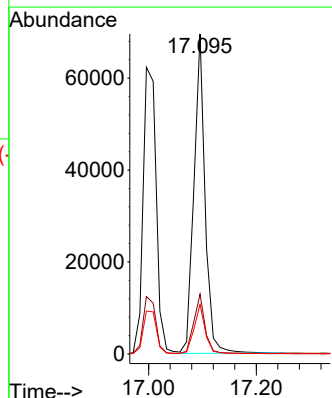
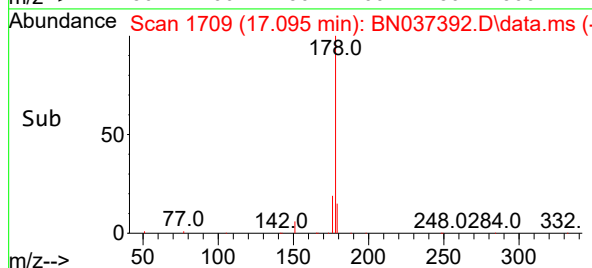
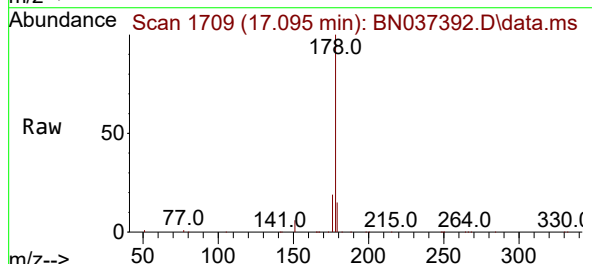
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

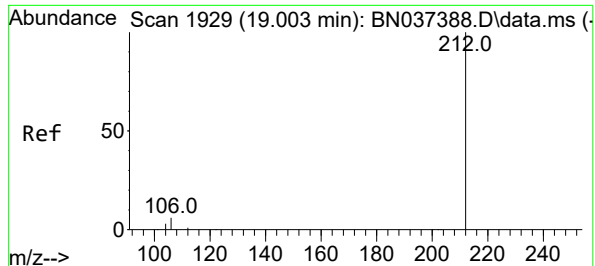
Tgt Ion:178 Resp: 105409
Ion Ratio Lower Upper
178 100
176 19.3 15.6 23.4
179 15.2 12.8 19.2



#26
Anthracene
Concen: 5.897 ng
RT: 17.095 min Scan# 1709
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:178 Resp: 100113
Ion Ratio Lower Upper
178 100
176 18.6 14.9 22.3
179 15.3 12.4 18.6





#27

Fluoranthene-d10

Concen: 6.313 ng

RT: 19.003 min Scan# 1929

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

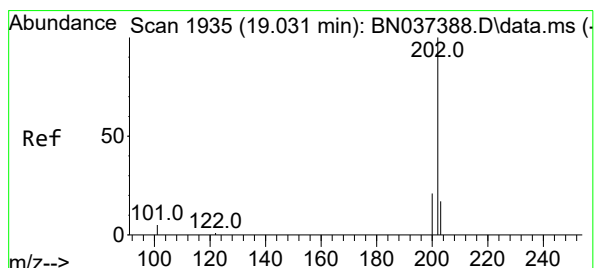
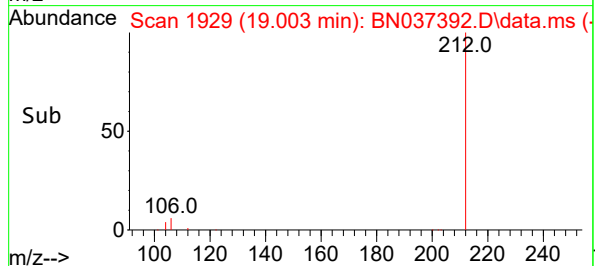
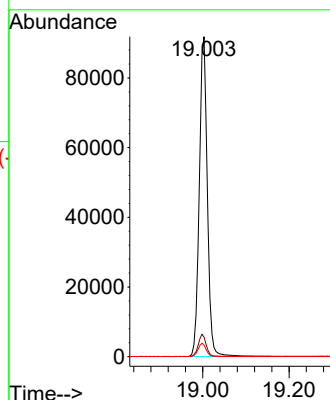
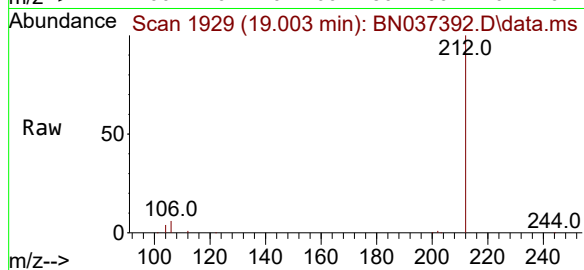
Tgt Ion:212 Resp: 118571

Ion Ratio Lower Upper

212 100

106 6.8 4.5 6.7#

104 4.1 2.7 4.1#



#28

Fluoranthene

Concen: 5.641 ng

RT: 19.031 min Scan# 1935

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

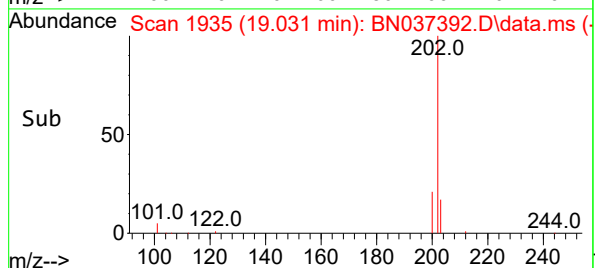
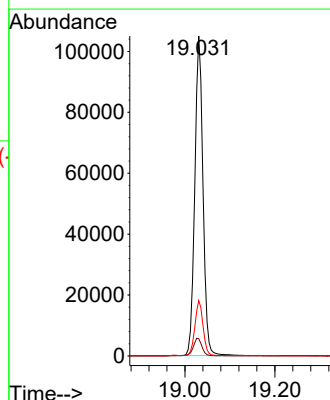
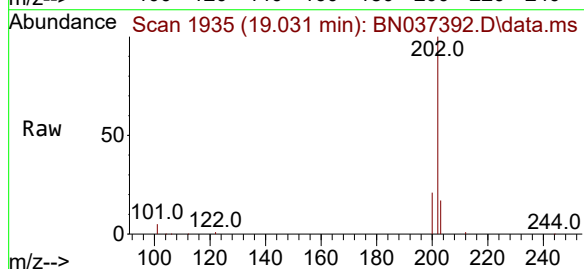
Tgt Ion:202 Resp: 133030

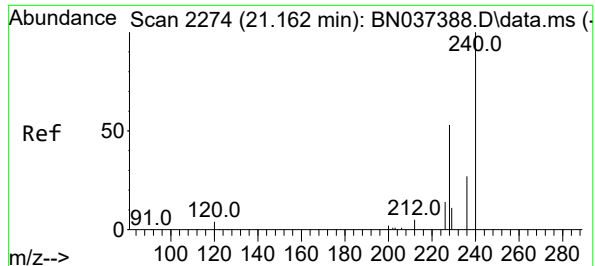
Ion Ratio Lower Upper

202 100

101 5.8 3.8 5.6#

203 17.3 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

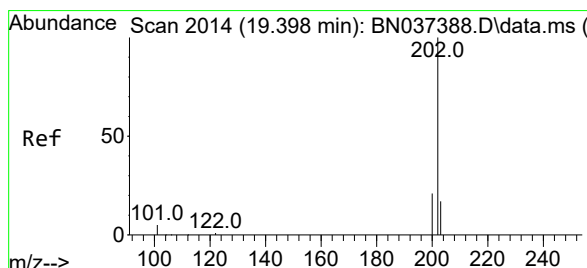
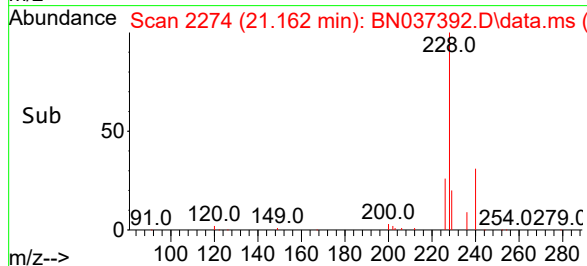
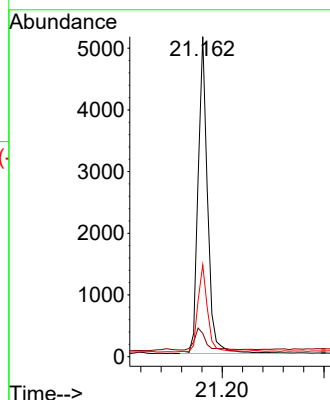
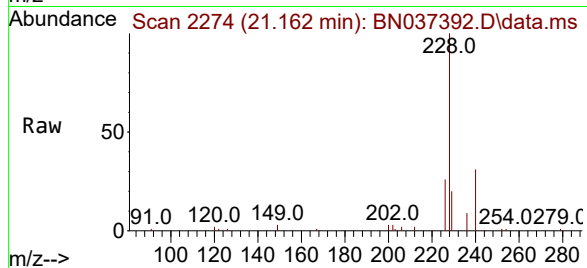
Tgt Ion:240 Resp: 6601

Ion Ratio Lower Upper

240 100

120 7.3 5.3 7.9

236 28.7 22.7 34.1



#30

Pyrene

Concen: 5.324 ng

RT: 19.393 min Scan# 2013

Delta R.T. -0.005 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

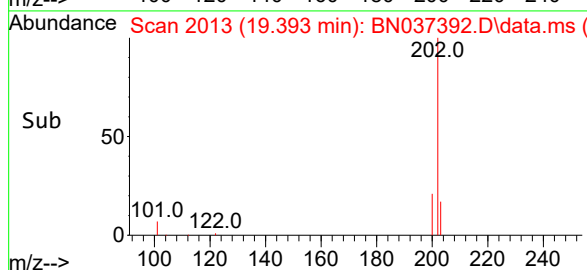
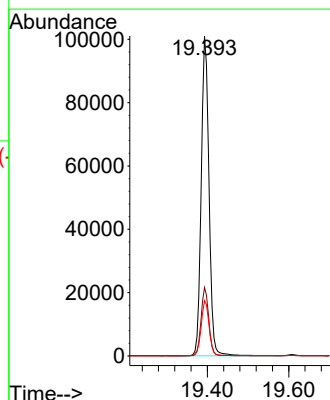
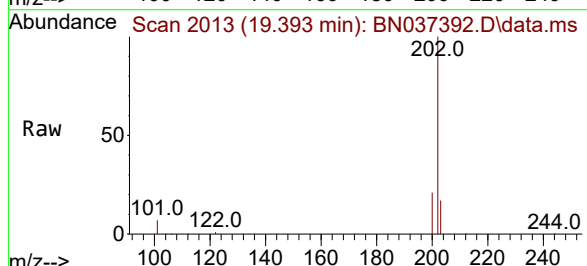
Tgt Ion:202 Resp: 132986

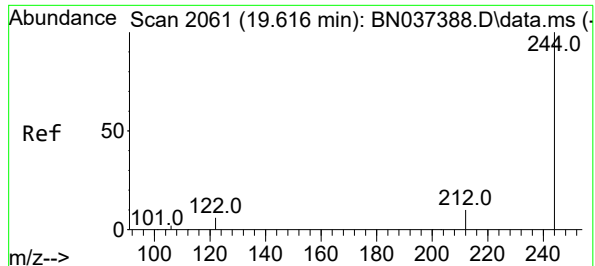
Ion Ratio Lower Upper

202 100

200 21.2 16.5 24.7

203 17.7 14.2 21.2

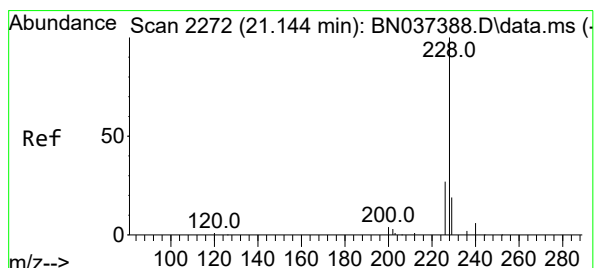
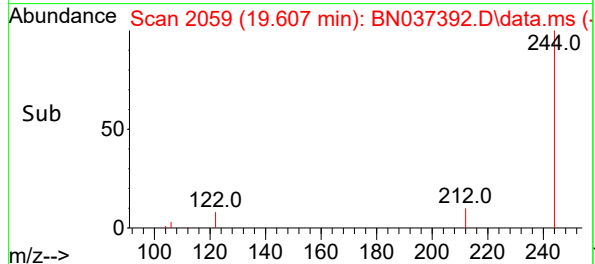
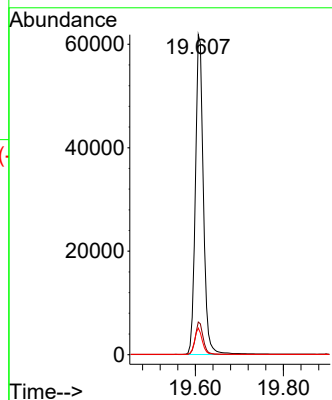
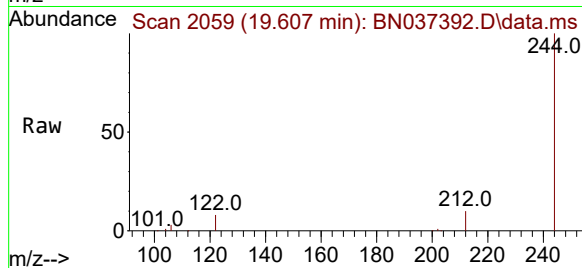




#31
Terphenyl-d14
Concen: 5.527 ng
RT: 19.607 min Scan# 2059
Delta R.T. -0.009 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

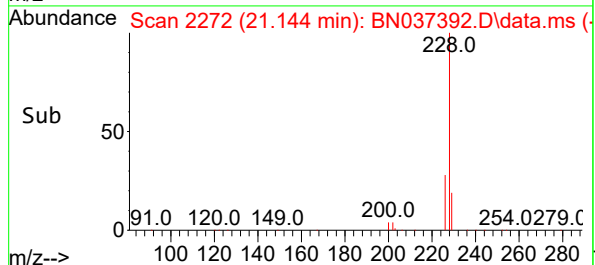
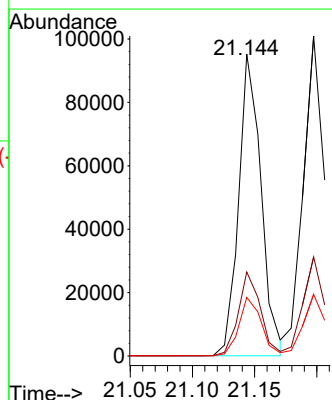
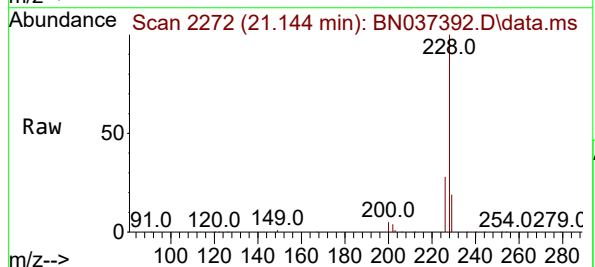
Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

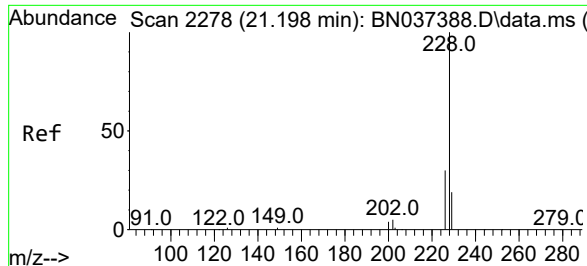
Tgt Ion:244 Resp: 77795
Ion Ratio Lower Upper
244 100
212 10.2 9.1 13.7
122 8.3 6.3 9.5



#32
Benzo(a)anthracene
Concen: 5.754 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037392.D
Acq: 26 Jun 2025 14:17

Tgt Ion:228 Resp: 119334
Ion Ratio Lower Upper
228 100
226 27.9 22.6 34.0
229 19.4 16.2 24.2





#33

Chrysene

Concen: 4.982 ng

RT: 21.197 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

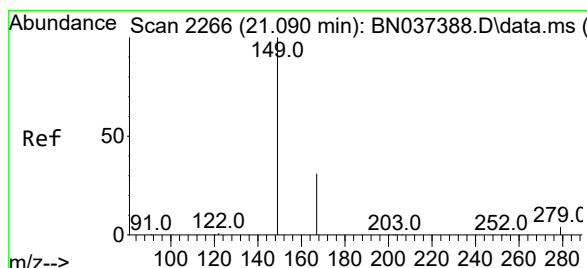
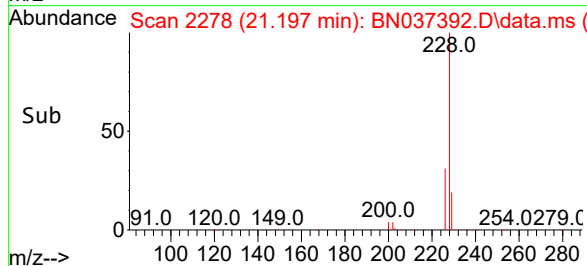
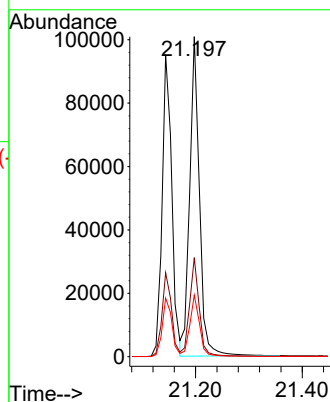
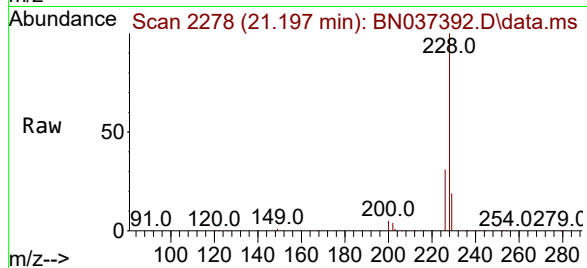
Tgt Ion:228 Resp: 127936

Ion Ratio Lower Upper

228 100

226 30.9 24.5 36.7

229 19.3 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 5.397 ng

RT: 21.090 min Scan# 2266

Delta R.T. -0.000 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

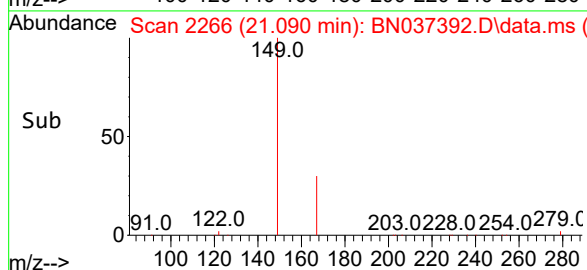
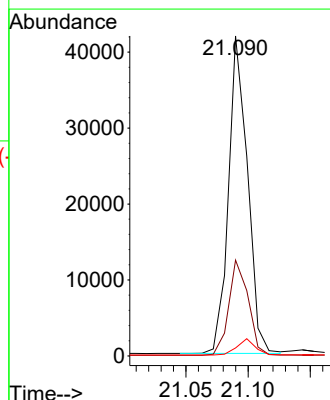
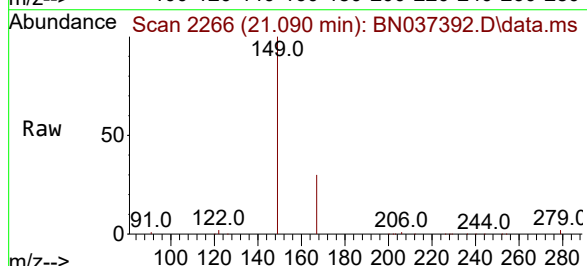
Tgt Ion:149 Resp: 44321

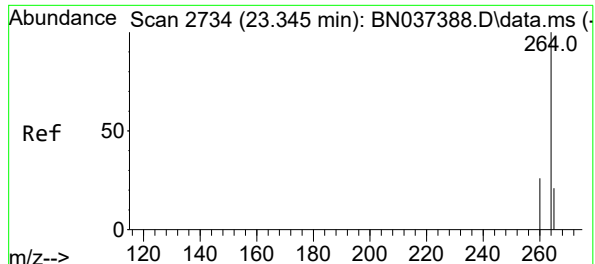
Ion Ratio Lower Upper

149 100

167 30.9 24.8 37.2

279 5.0 5.0 7.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.345 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037392.D

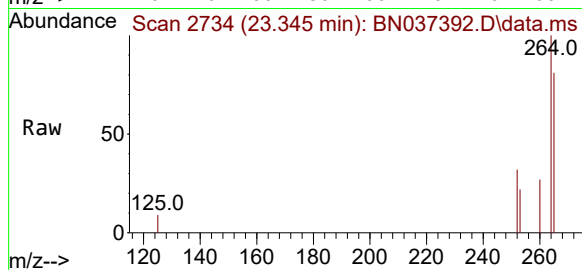
Acq: 26 Jun 2025 14:17

Instrument :

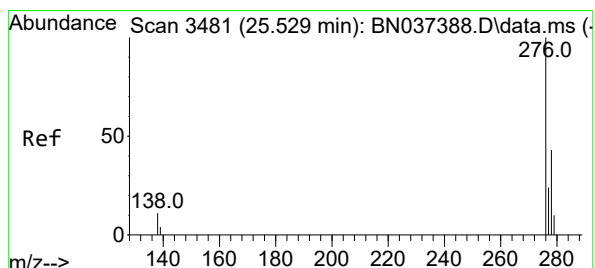
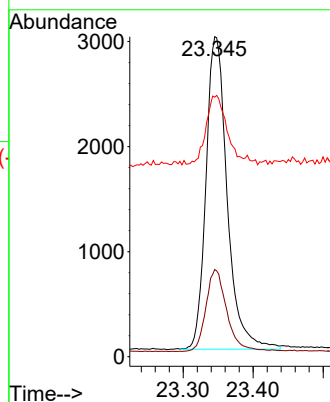
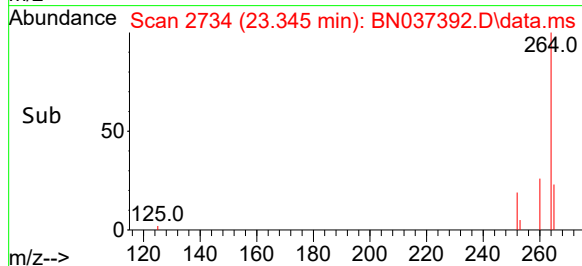
BNA_N

ClientSampleId :

SSTDICC5.0



Tgt Ion:	264	Resp:	6264
Ion Ratio	Lower	Upper	
264	100		
260	27.3	21.4	32.0
265	81.1	56.2	84.4



#36

Indeno(1,2,3-cd)pyrene

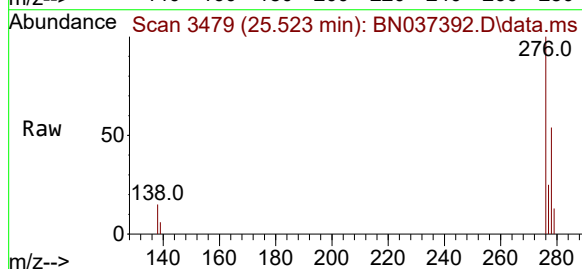
Concen: 5.833 ng

RT: 25.523 min Scan# 3479

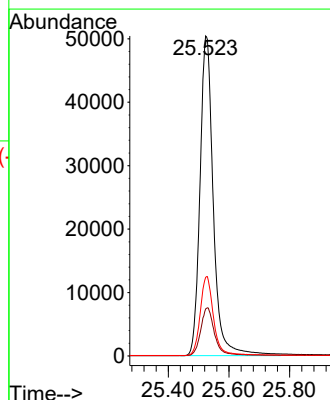
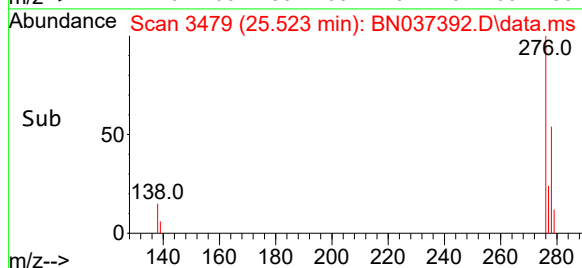
Delta R.T. -0.006 min

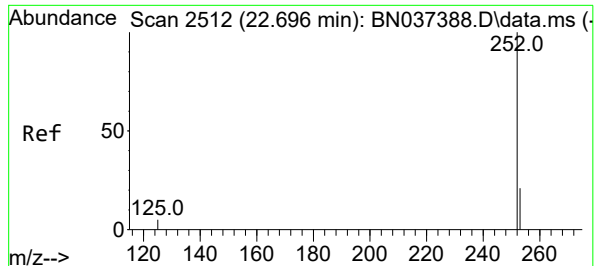
Lab File: BN037392.D

Acq: 26 Jun 2025 14:17



Tgt Ion:	276	Resp:	154039
Ion Ratio	Lower	Upper	
276	100		
138	15.3	8.5	12.7#
277	24.9	19.7	29.5





#37

Benzo(b)fluoranthene

Concen: 5.787 ng

RT: 22.693 min Scan# 2511

Delta R.T. -0.003 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

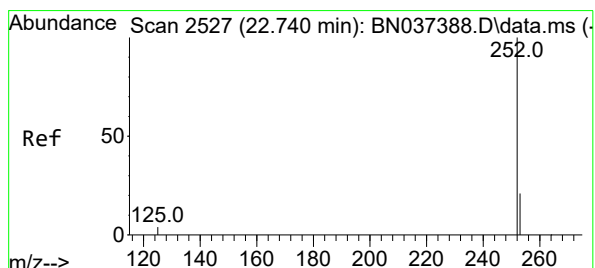
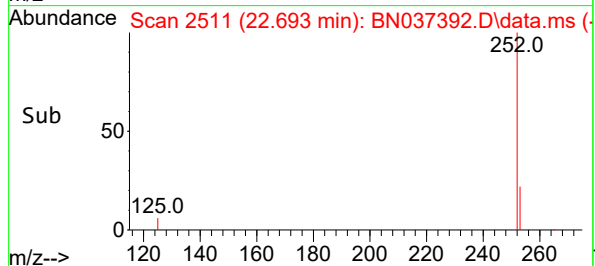
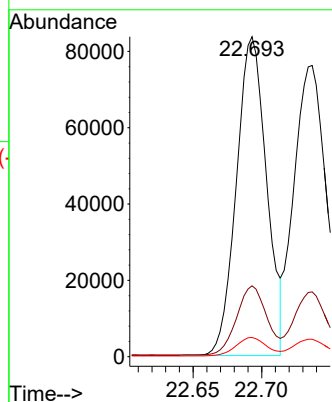
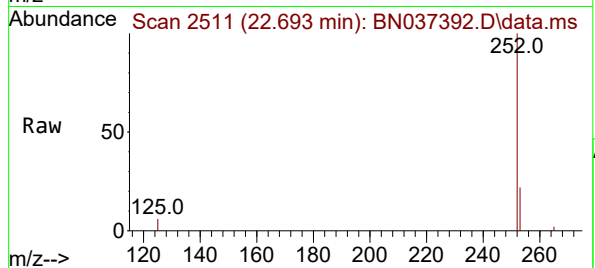
Tgt Ion:252 Resp: 127810

Ion Ratio Lower Upper

252 100

253 22.2 22.8 34.2#

125 6.0 6.2 9.4#



#38

Benzo(k)fluoranthene

Concen: 5.630 ng

RT: 22.737 min Scan# 2526

Delta R.T. -0.003 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

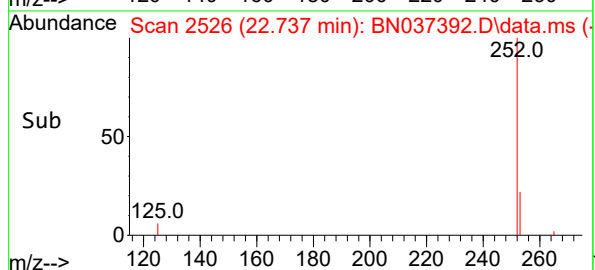
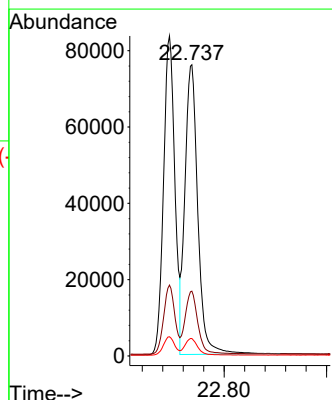
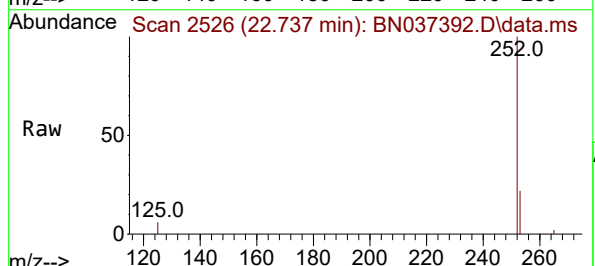
Tgt Ion:252 Resp: 132887

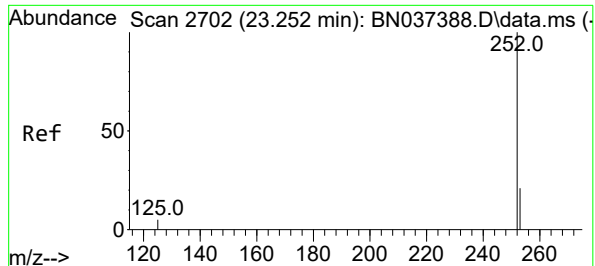
Ion Ratio Lower Upper

252 100

253 22.3 23.2 34.8#

125 6.0 6.0 9.0#





#39

Benzo(a)pyrene

Concen: 5.686 ng

RT: 23.248 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0

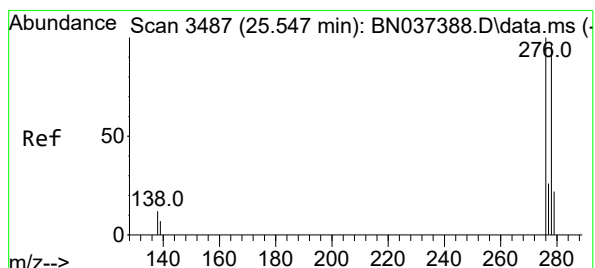
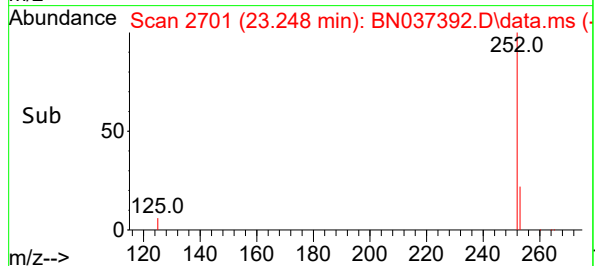
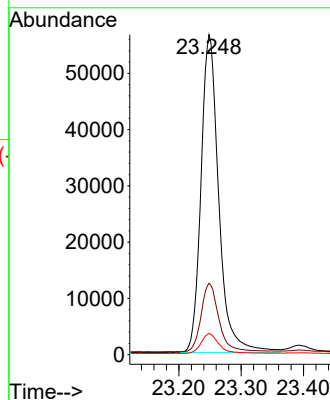
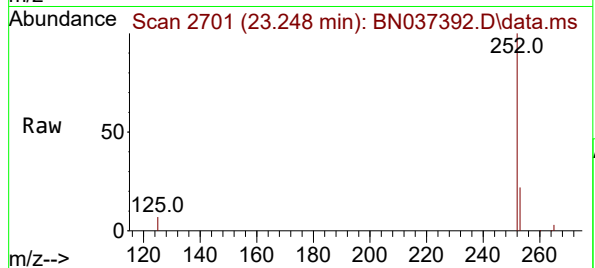
Tgt Ion:252 Resp: 111691

Ion Ratio Lower Upper

252 100

253 22.3 25.6 38.4#

125 6.6 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 6.025 ng

RT: 25.538 min Scan# 3484

Delta R.T. -0.009 min

Lab File: BN037392.D

Acq: 26 Jun 2025 14:17

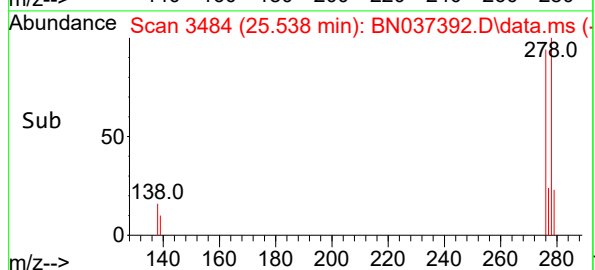
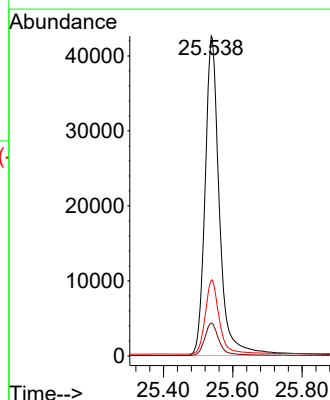
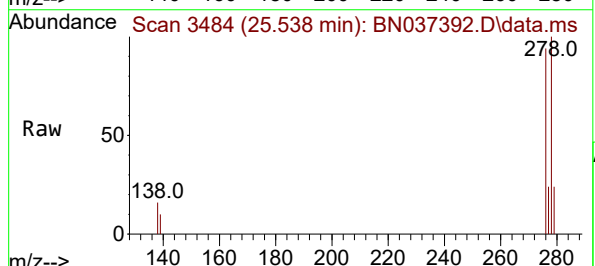
Tgt Ion:278 Resp: 122232

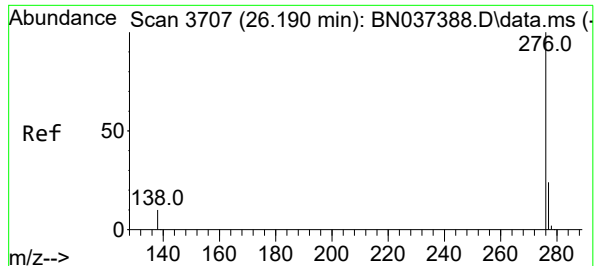
Ion Ratio Lower Upper

278 100

139 10.3 8.5 12.7

279 23.6 27.5 41.3#





#41

Benzo(g,h,i)perylene

Concen: 5.570 ng

RT: 26.190 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN037392.D

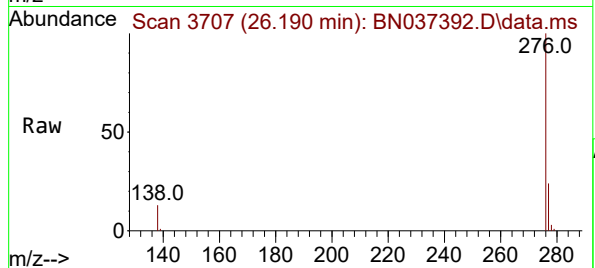
Acq: 26 Jun 2025 14:17

Instrument :

BNA_N

ClientSampleId :

SSTDICC5.0



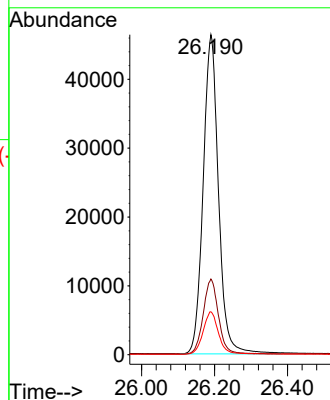
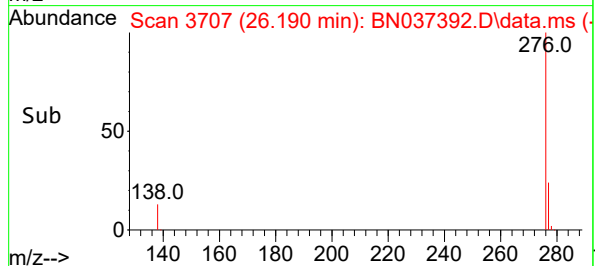
Tgt Ion:276 Resp: 135052

Ion Ratio Lower Upper

276 100

277 23.6 21.0 31.4

138 13.4 9.6 14.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
 Data File : BN037393.D
 Acq On : 26 Jun 2025 14:54
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN062625

Quant Time: Jun 26 16:06:51 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 16:06:33 2025
 Response via : Initial Calibration

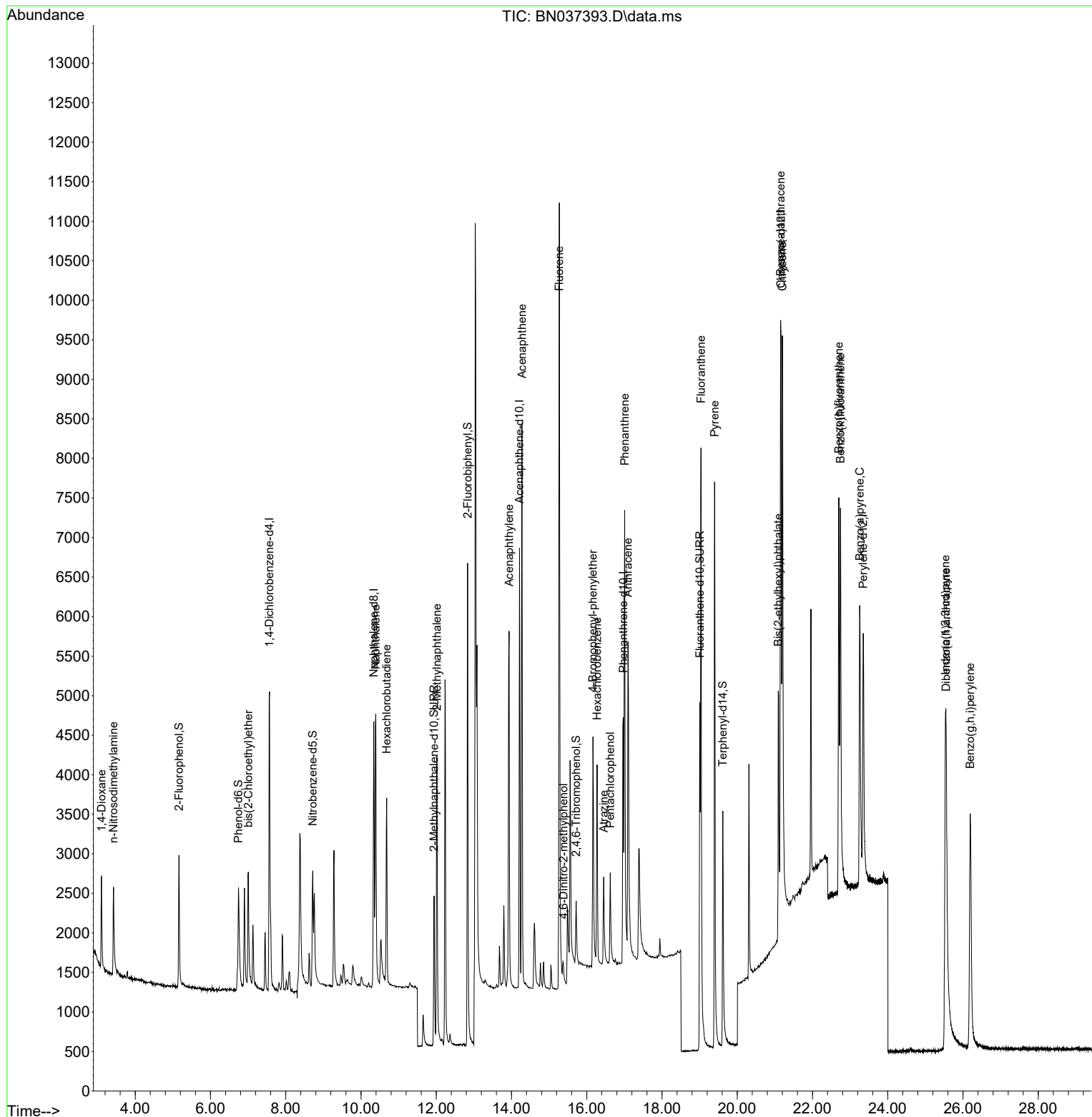
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	2171	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4836	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	3065	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	6127	0.400	ng	# 0.01
29) Chrysene-d12	21.162	240	5019	0.400	ng	# 0.00
35) Perylene-d12	23.348	264	4884	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	1574	0.376	ng	0.00
5) Phenol-d6	6.744	99	1620	0.373	ng	0.00
8) Nitrobenzene-d5	8.717	82	1646	0.425	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	3153	0.421	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	623	0.347	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	6004	0.454	ng	0.00
27) Fluoranthene-d10	19.003	212	6867	0.391	ng	0.00
31) Terphenyl-d14	19.616	244	4960	0.464	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	1015	0.493	ng	Qvalue 94
3) n-Nitrosodimethylamine	3.422	42	847	0.417	ng	# 88
6) bis(2-Chloroethyl)ether	7.004	93	1776	0.460	ng	99
9) Naphthalene	10.394	128	5176	0.416	ng	99
10) Hexachlorobutadiene	10.682	225	2038	0.412	ng	# 99
12) 2-Methylnaphthalene	12.016	142	3148	0.367	ng	98
16) Acenaphthylene	13.935	152	5693	0.448	ng	99
17) Acenaphthene	14.277	154	3435	0.414	ng	99
18) Fluorene	15.272	166	4775	0.407	ng	100
20) 4,6-Dinitro-2-methylph...	15.378	198	497	0.316	ng	# 86
21) 4-Bromophenyl-phenylether	16.165	248	1722	0.398	ng	# 93
22) Hexachlorobenzene	16.276	284	1984	0.427	ng	97
23) Atrazine	16.450	200	1384	0.404	ng	97
24) Pentachlorophenol	16.624	266	775	0.309	ng	98
25) Phenanthrene	17.009	178	7070	0.410	ng	99
26) Anthracene	17.095	178	6496	0.409	ng	99
28) Fluoranthene	19.035	202	8423	0.382	ng	99
30) Pyrene	19.398	202	8354	0.440	ng	99
32) Benzo(a)anthracene	21.153	228	6494	0.412	ng	99
33) Chrysene	21.198	228	7943	0.407	ng	99
34) Bis(2-ethylhexyl)phtha...	21.090	149	2775	0.444	ng	99
36) Indeno(1,2,3-cd)pyrene	25.532	276	8543	0.415	ng	96
37) Benzo(b)fluoranthene	22.699	252	6764	0.393	ng	96
38) Benzo(k)fluoranthene	22.743	252	8109	0.441	ng	# 96
39) Benzo(a)pyrene	23.254	252	6621	0.432	ng	# 94
40) Dibenzo(a,h)anthracene	25.552	278	6443	0.407	ng	96
41) Benzo(g,h,i)perylene	26.193	276	7497	0.397	ng	99

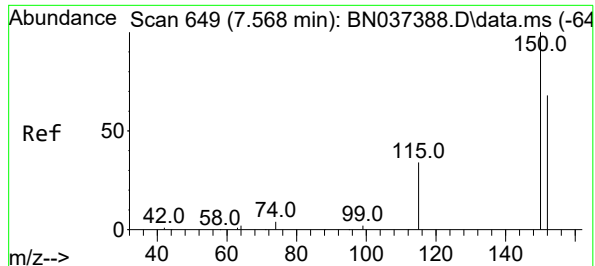
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037393.D
Acq On : 26 Jun 2025 14:54
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

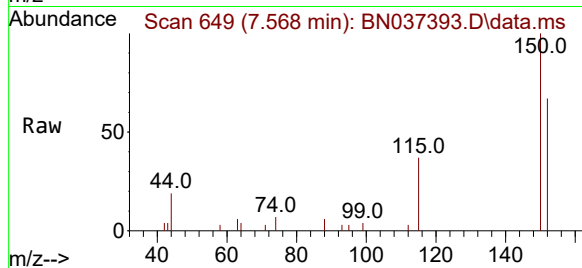
Quant Time: Jun 26 16:06:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration



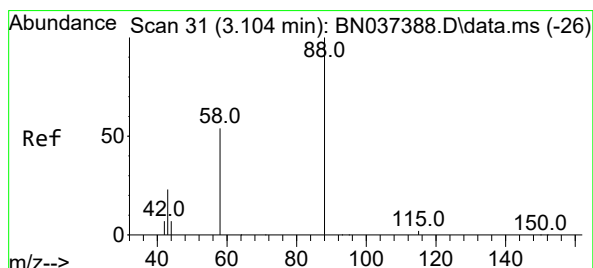
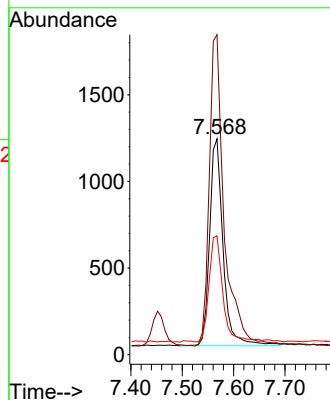
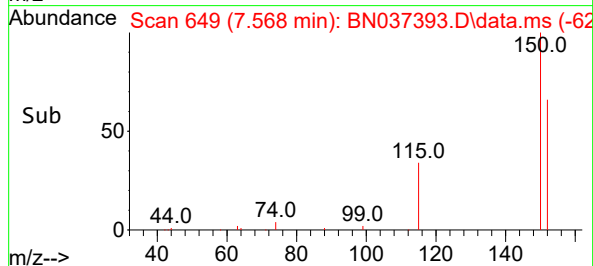


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

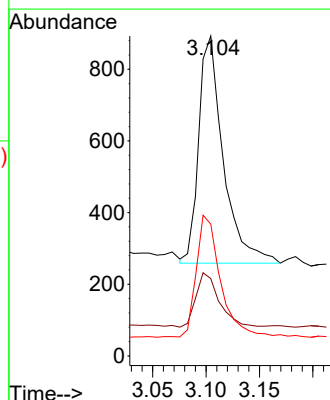
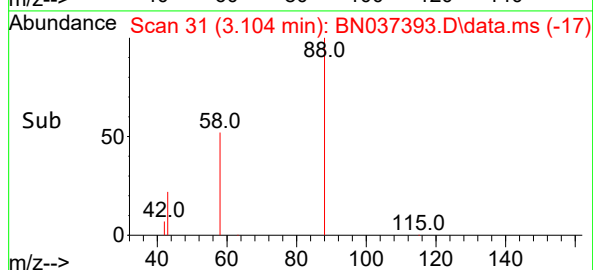
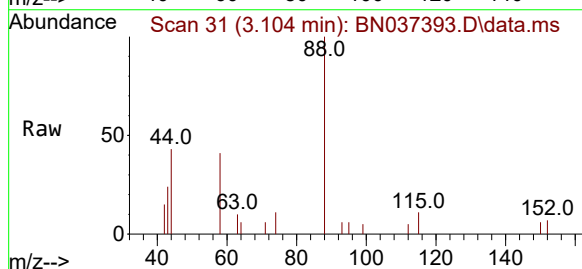


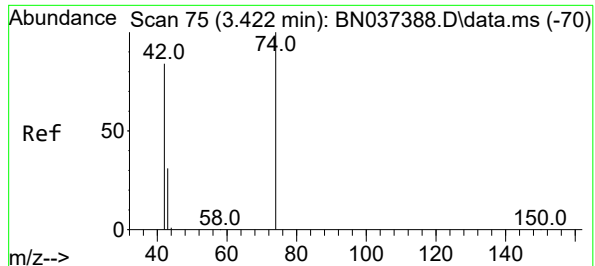
Tgt Ion:152 Resp: 2171
Ion Ratio Lower Upper
152 100
150 148.2 116.2 174.2
115 55.1 42.9 64.3



#2
1,4-Dioxane
Concen: 0.493 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion: 88 Resp: 1015
Ion Ratio Lower Upper
88 100
43 23.0 21.6 32.4
58 53.6 45.9 68.9

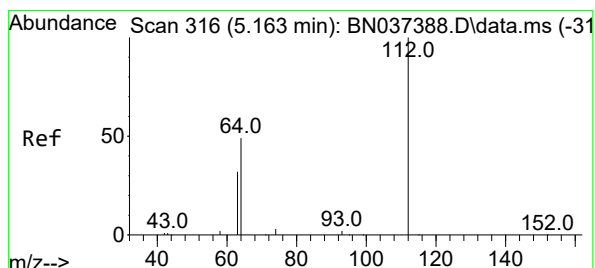
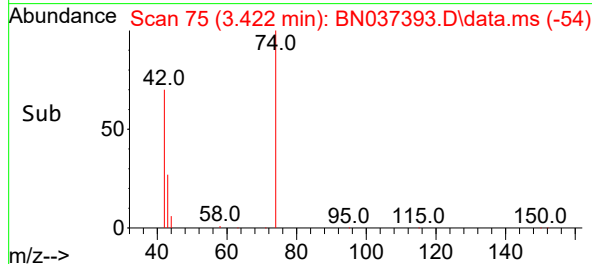
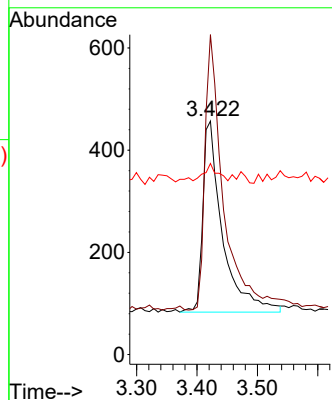
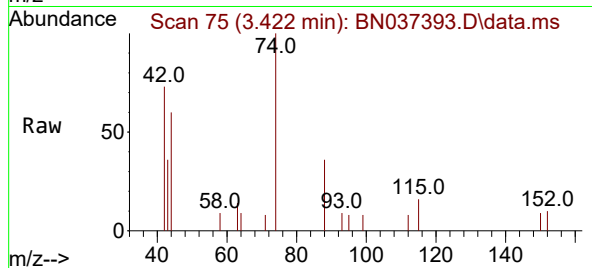




#3
n-Nitrosodimethylamine
Concen: 0.417 ng
RT: 3.422 min Scan# 75
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

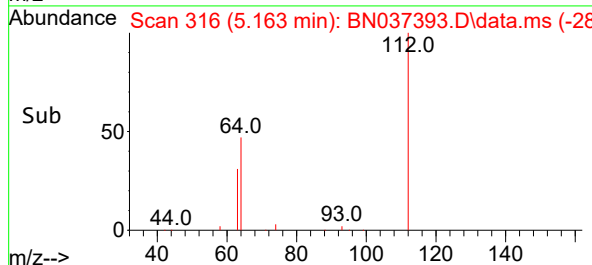
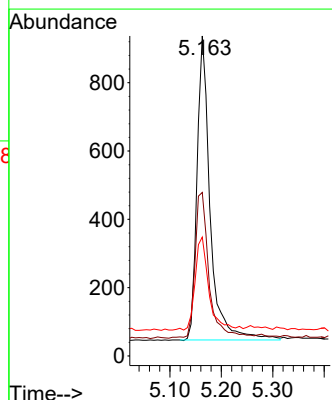
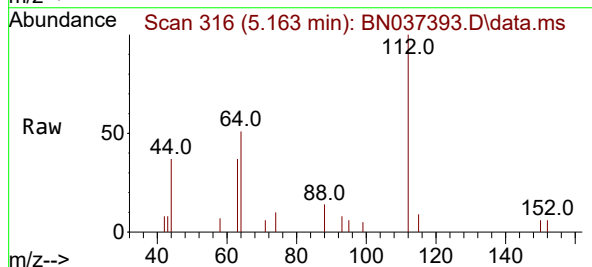
Instrument :
BNA_N
ClientSampleId :
ICVBN062625

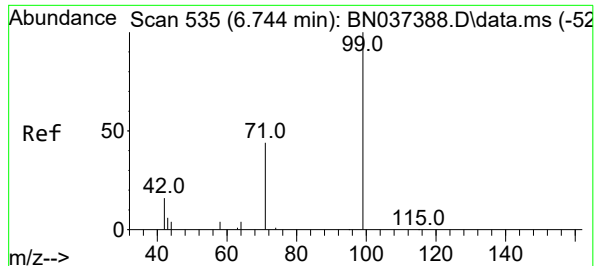
Tgt Ion: 42 Resp: 847
Ion Ratio Lower Upper
42 100
74 136.5 97.8 146.8
44 7.3 8.7 13.1#



#4
2-Fluorophenol
Concen: 0.376 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion: 112 Resp: 1574
Ion Ratio Lower Upper
112 100
64 51.4 40.3 60.5
63 31.5 26.1 39.1

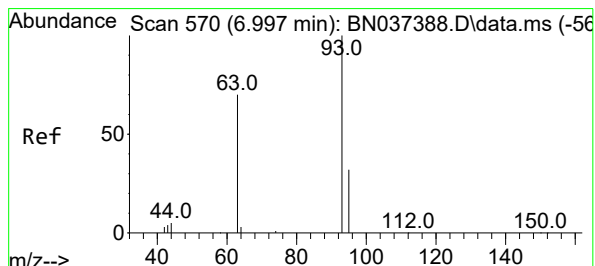
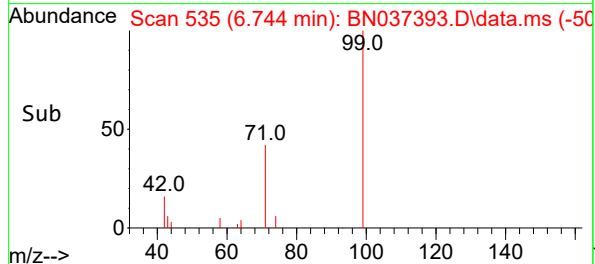
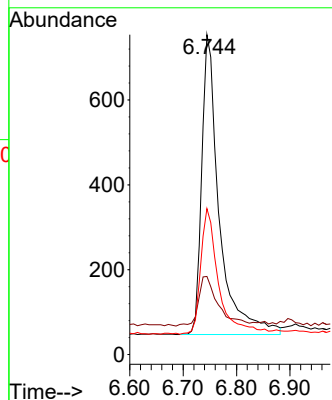
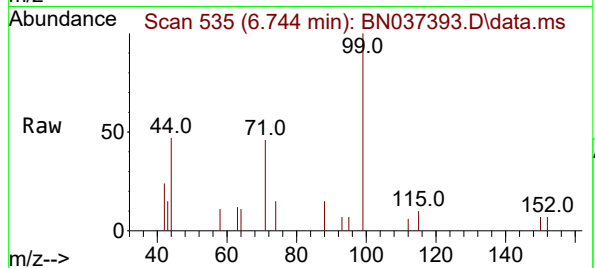




#5
Phenol-d6
Concen: 0.373 ng
RT: 6.744 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

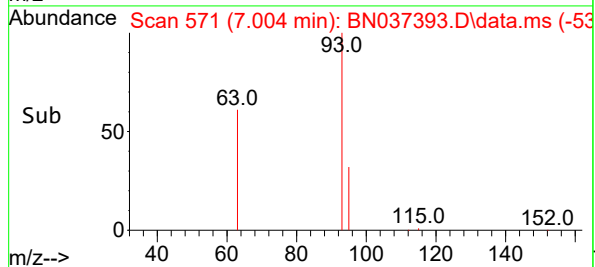
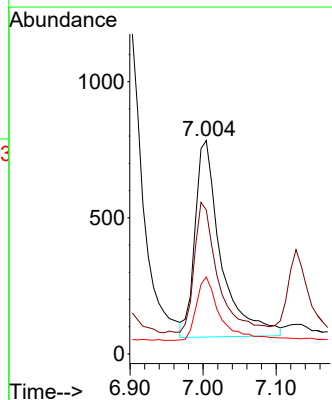
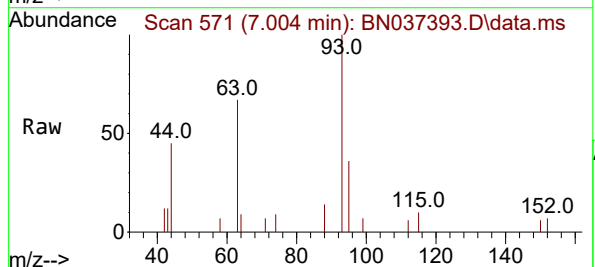
Instrument :
BNA_N
ClientSampleId :
ICVBN062625

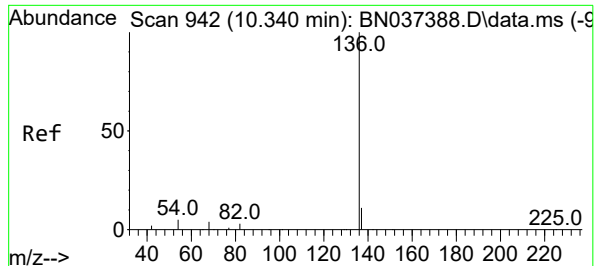
Tgt Ion: 99 Resp: 1620
Ion Ratio Lower Upper
99 100
42 18.6 15.6 23.4
71 42.7 35.8 53.8



#6
bis(2-Chloroethyl)ether
Concen: 0.460 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.007 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion: 93 Resp: 1776
Ion Ratio Lower Upper
93 100
63 60.8 49.6 74.4
95 30.5 23.9 35.9

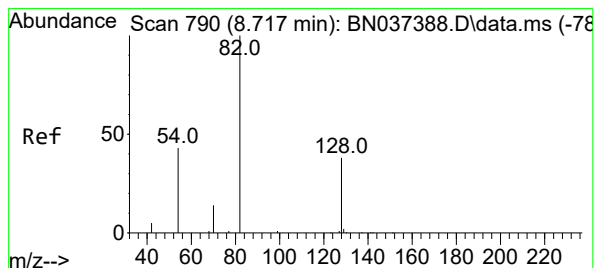
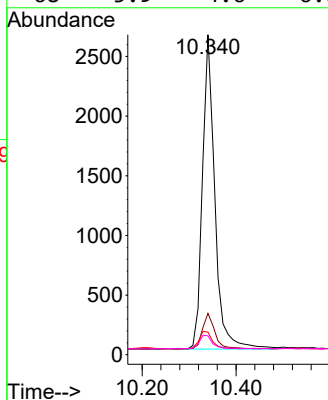
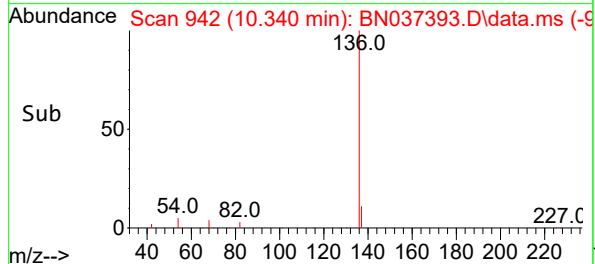
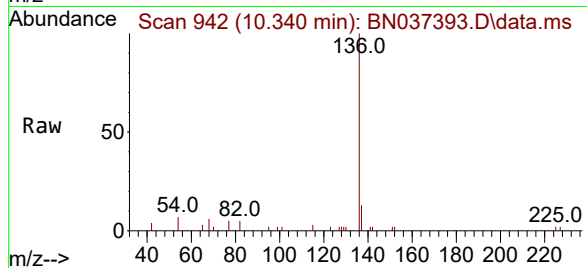




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

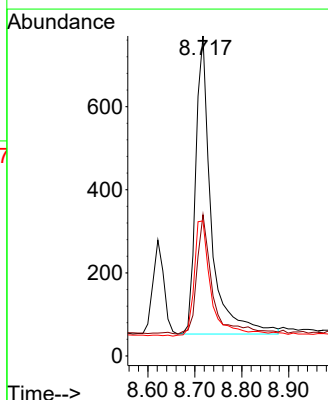
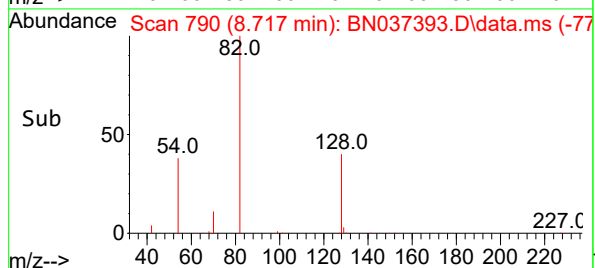
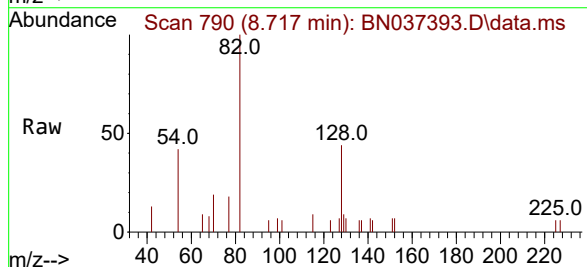
Instrument :
BNA_N
ClientSampleId :
ICVBN062625

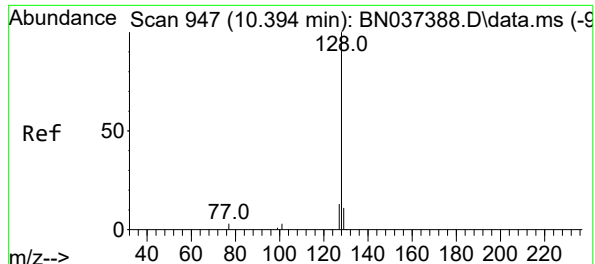
Tgt Ion:	136	Resp:	4836
Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.4	15.6
54	7.1	5.6	8.4
68	5.9	4.6	6.8



#8
Nitrobenzene-d5
Concen: 0.425 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:	82	Resp:	1646
Ion	Ratio	Lower	Upper
82	100		
128	44.2	34.0	51.0
54	42.2	37.7	56.5

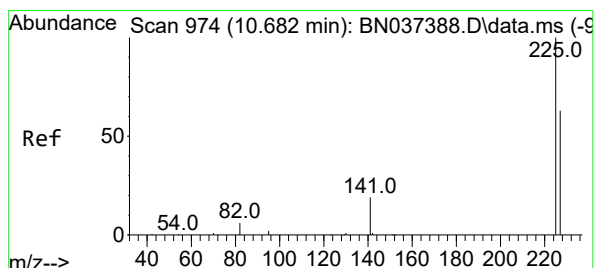
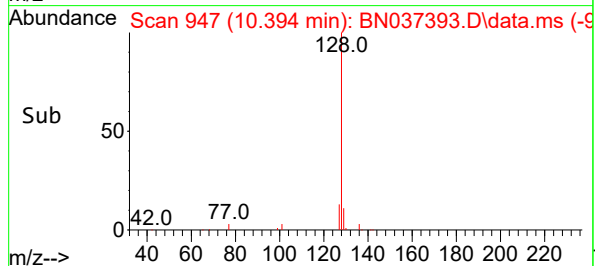
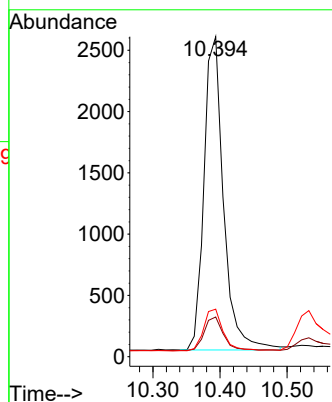
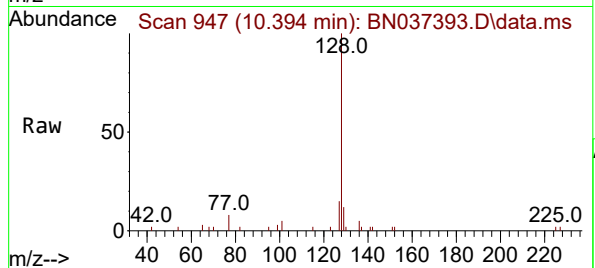




#9
Naphthalene
Concen: 0.416 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

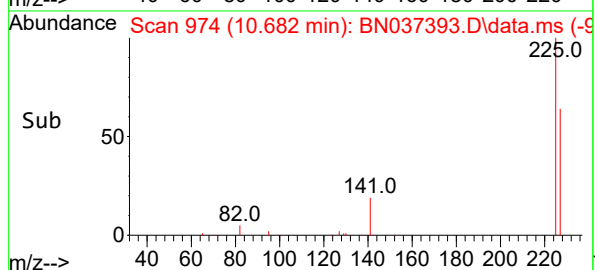
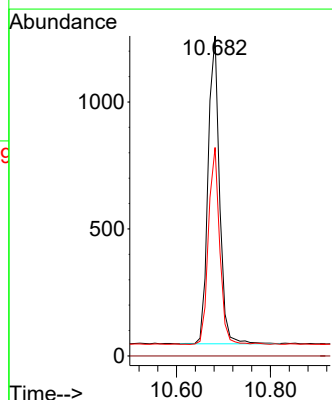
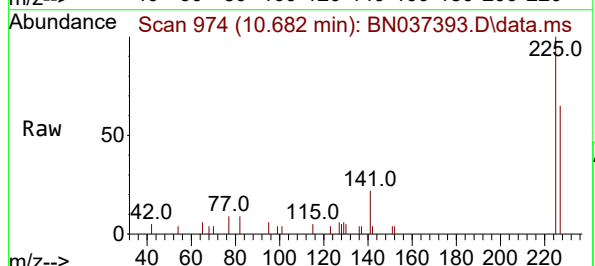
Instrument :
BNA_N
ClientSampleId :
ICVBN062625

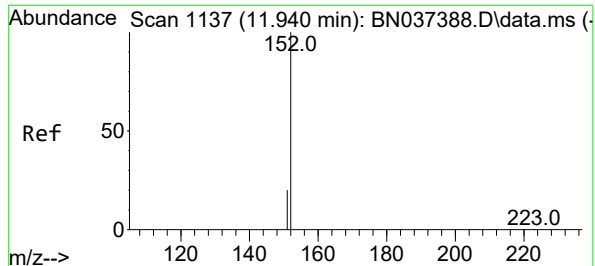
Tgt Ion	128	129	127
Resp:	5176		
Ion Ratio	100	12.4	14.9
Lower		10.4	12.2
Upper		15.6	18.4



#10
Hexachlorobutadiene
Concen: 0.412 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion	225	223	227
Resp:	2038		
Ion Ratio	100	0.0	62.9
Lower		0.0	49.9
Upper		0.0	74.9

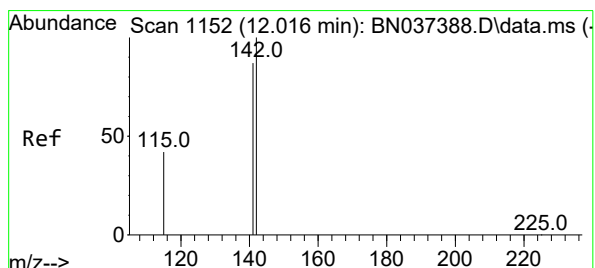
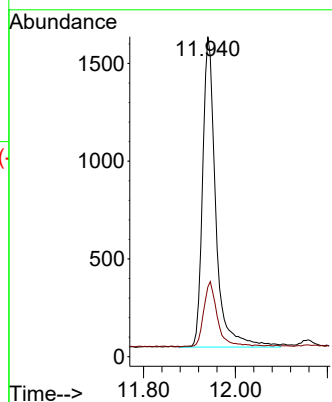
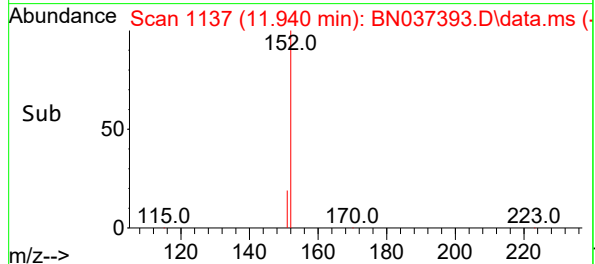
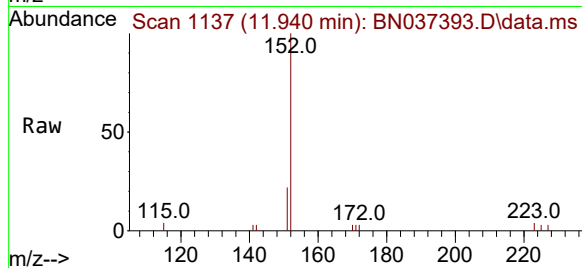




#11
2-Methylnaphthalene-d10
Concen: 0.421 ng
RT: 11.940 min Scan# 1137
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

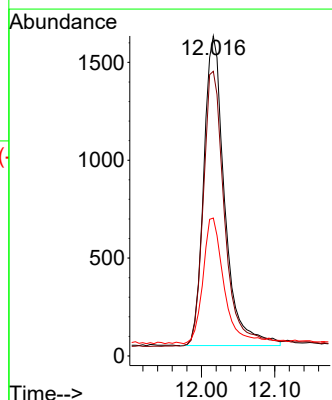
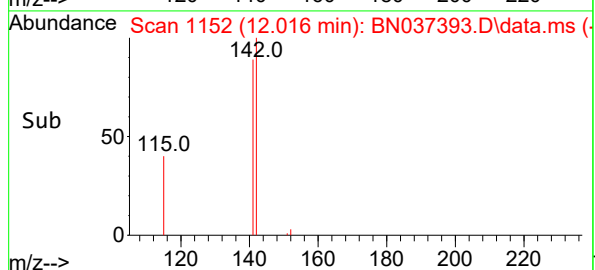
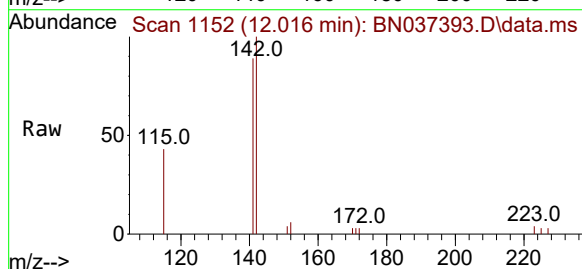
Instrument :
BNA_N
ClientSampleId :
ICVBN062625

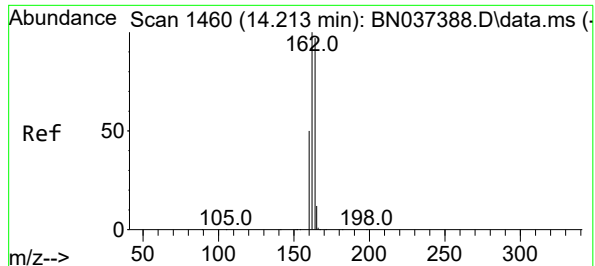
Tgt Ion:152 Resp: 3153
Ion Ratio Lower Upper
152 100
151 21.6 18.4 27.6



#12
2-Methylnaphthalene
Concen: 0.367 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:142 Resp: 3148
Ion Ratio Lower Upper
142 100
141 88.9 70.1 105.1
115 43.1 35.8 53.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.213 min Scan# 1460

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625

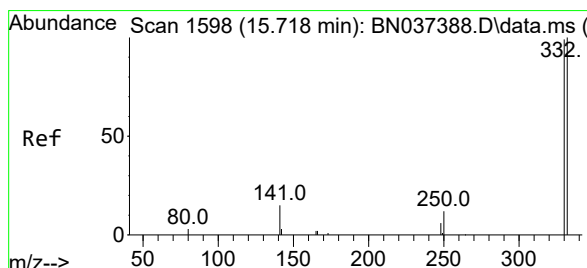
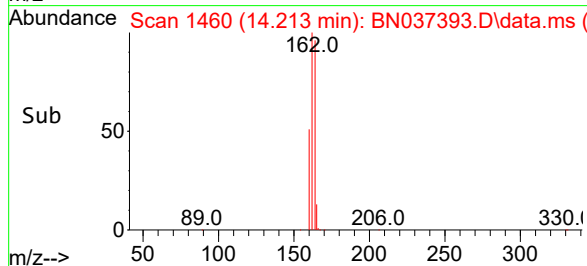
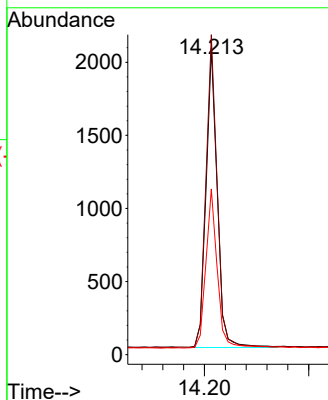
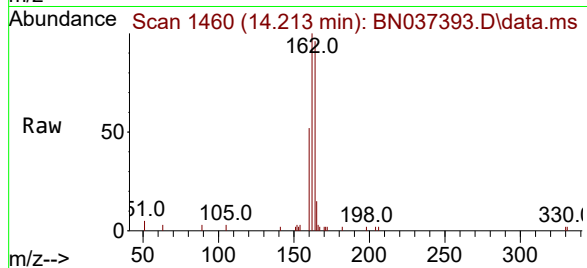
Tgt Ion:164 Resp: 3065

Ion Ratio Lower Upper

164 100

162 104.4 82.6 123.8

160 54.1 42.2 63.2



#14

2,4,6-Tribromophenol

Concen: 0.347 ng

RT: 15.718 min Scan# 1598

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

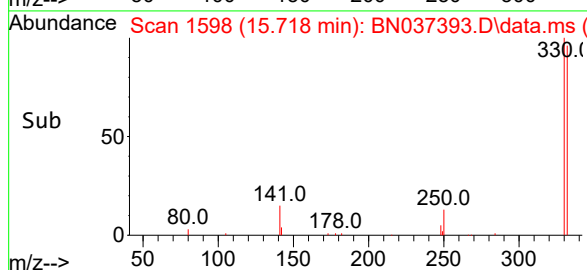
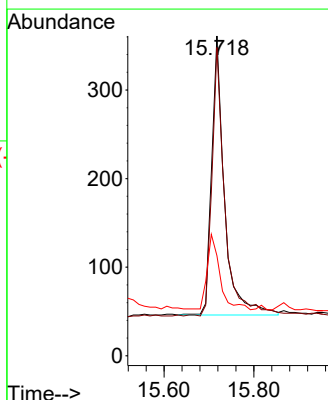
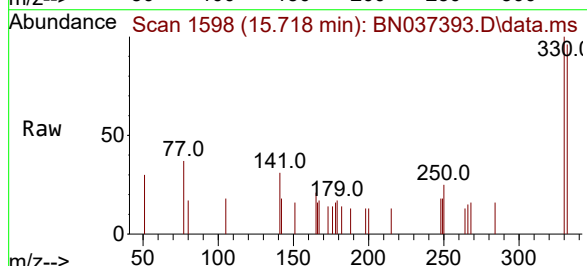
Tgt Ion:330 Resp: 623

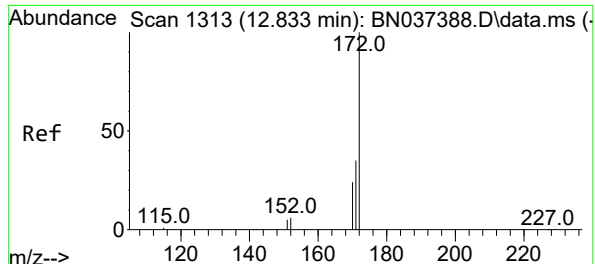
Ion Ratio Lower Upper

330 100

332 97.3 77.8 116.8

141 26.8 24.0 36.0





#15

2-Fluorobiphenyl

Concen: 0.454 ng

RT: 12.833 min Scan# 1313

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625

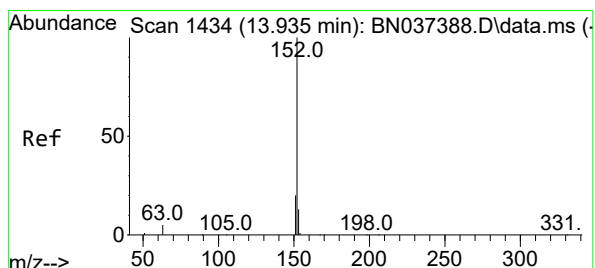
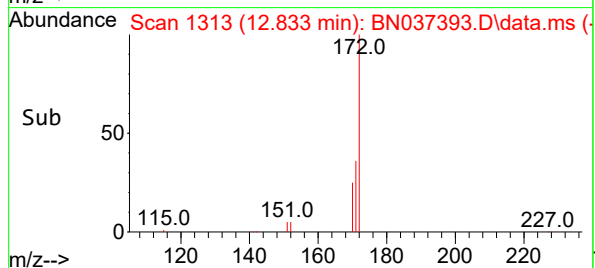
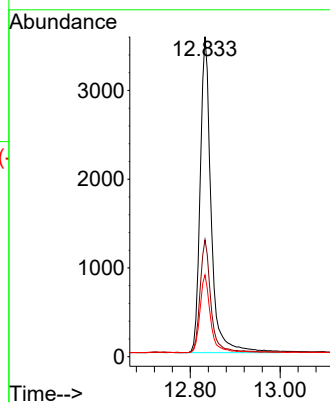
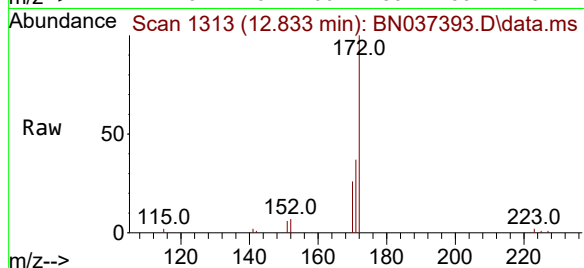
Tgt Ion:172 Resp: 6004

Ion Ratio Lower Upper

172 100

171 36.6 28.8 43.2

170 25.6 20.3 30.5



#16

Acenaphthylene

Concen: 0.448 ng

RT: 13.935 min Scan# 1434

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

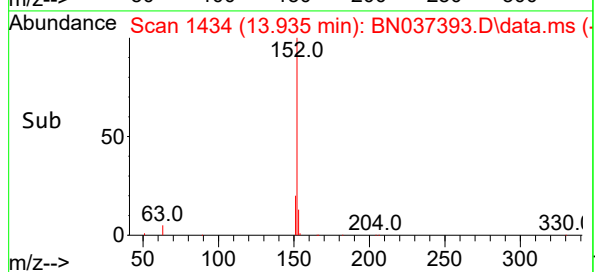
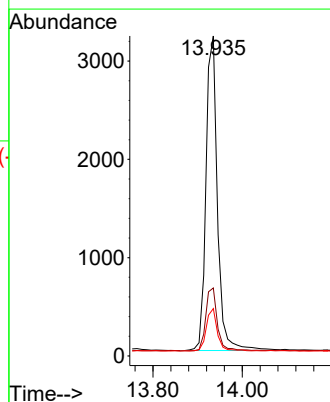
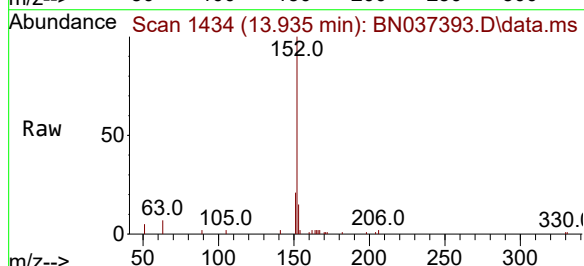
Tgt Ion:152 Resp: 5693

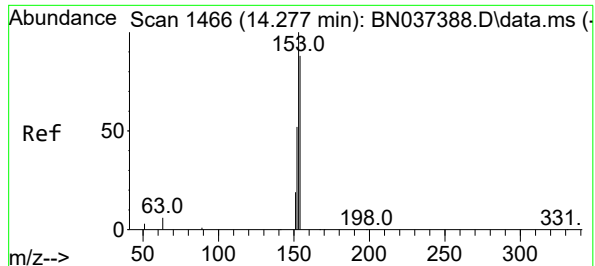
Ion Ratio Lower Upper

152 100

151 20.1 15.8 23.6

153 12.9 10.3 15.5





#17

Acenaphthene

Concen: 0.414 ng

RT: 14.277 min Scan# 1466

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625

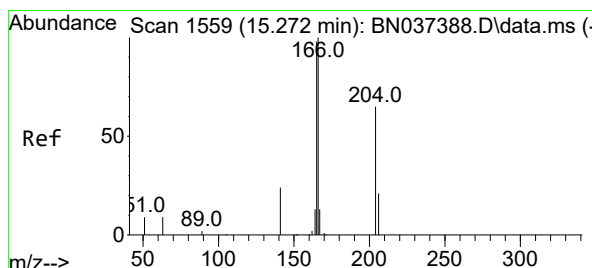
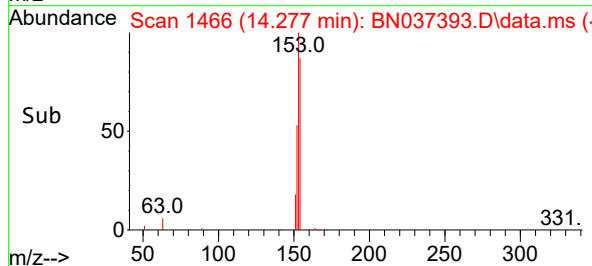
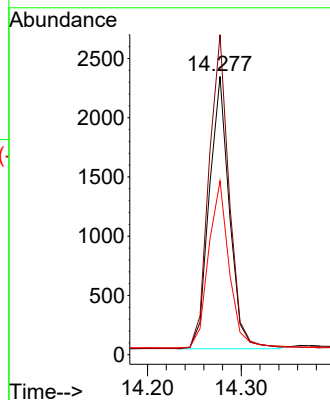
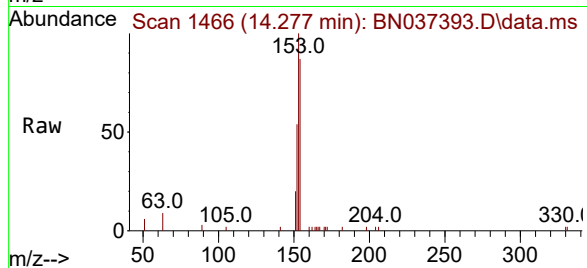
Tgt Ion:154 Resp: 3435

Ion Ratio Lower Upper

154 100

153 116.4 94.6 141.8

152 63.6 50.2 75.2



#18

Fluorene

Concen: 0.407 ng

RT: 15.272 min Scan# 1559

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

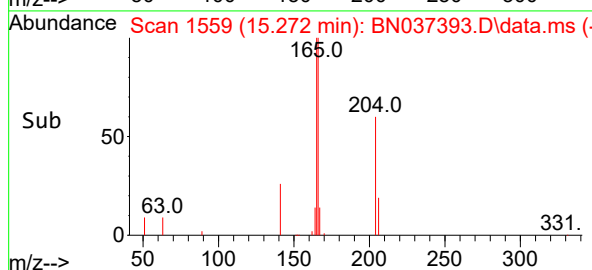
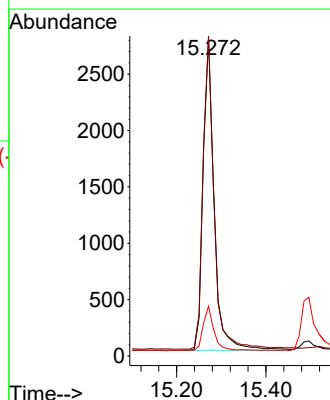
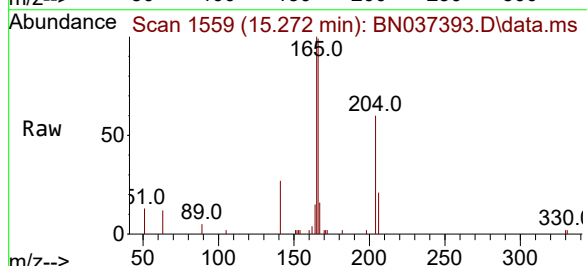
Tgt Ion:166 Resp: 4775

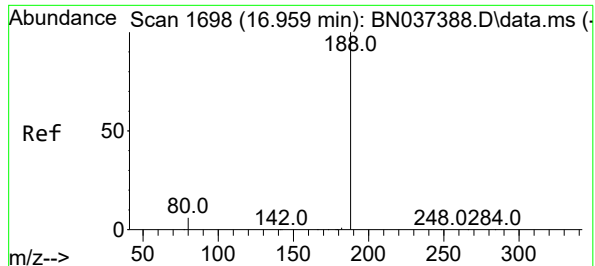
Ion Ratio Lower Upper

166 100

165 99.5 79.4 119.2

167 14.0 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.012 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625

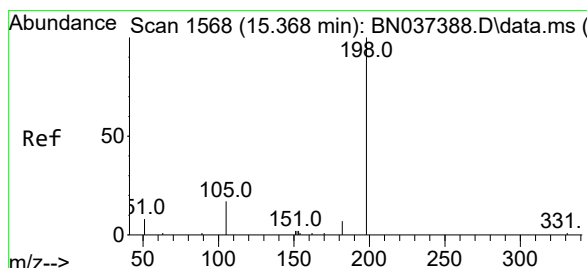
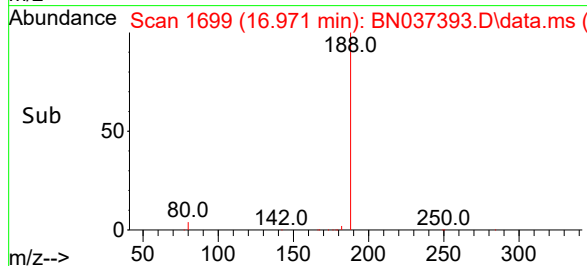
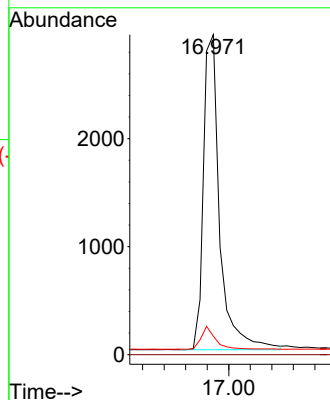
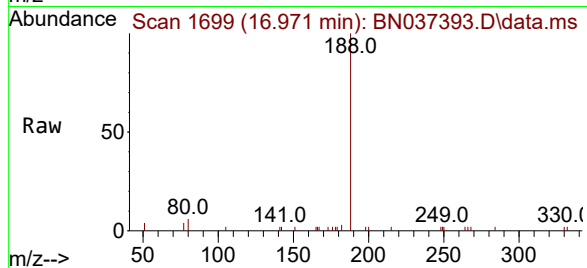
Tgt Ion:188 Resp: 6127

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.8 6.2 9.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.316 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.011 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

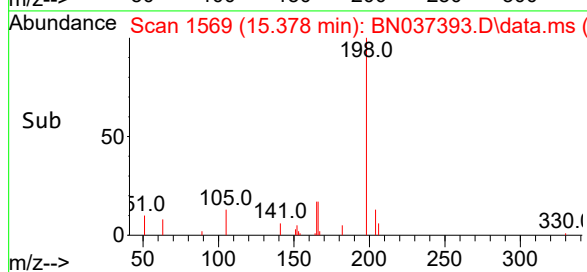
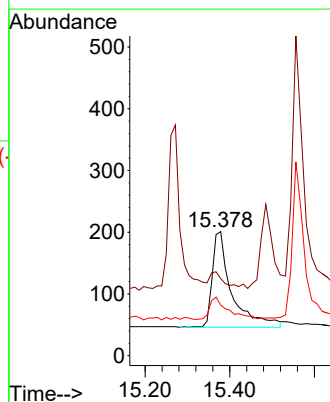
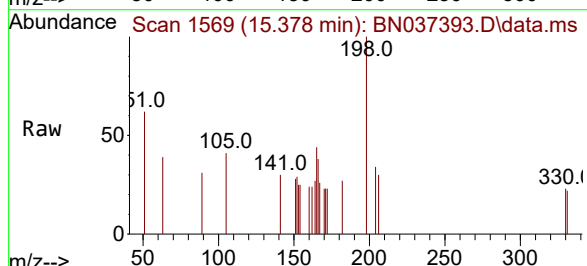
Tgt Ion:198 Resp: 497

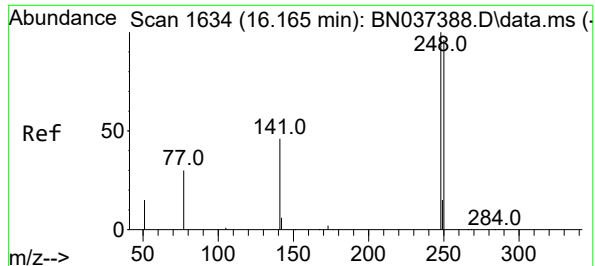
Ion Ratio Lower Upper

198 100

51 62.2 38.8 58.2#

105 40.8 29.8 44.6





#21

4-Bromophenyl-phenylether

Concen: 0.398 ng

RT: 16.165 min Scan# 1634

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625

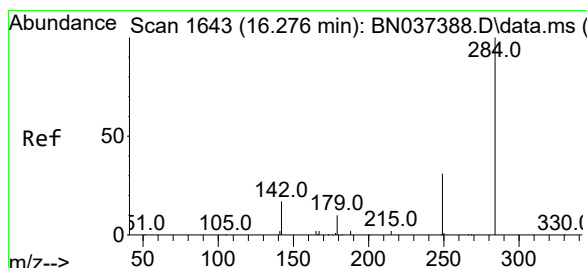
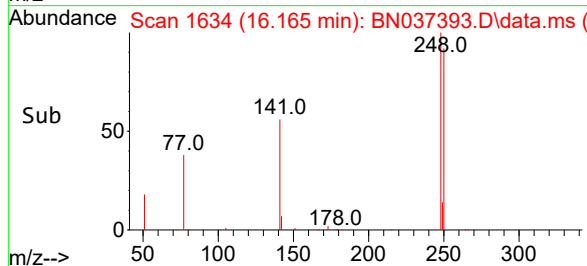
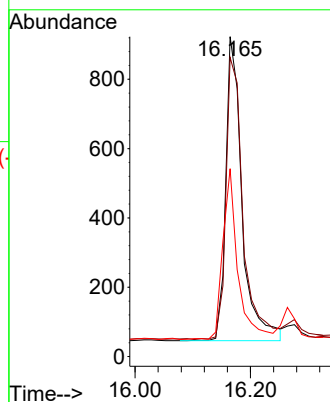
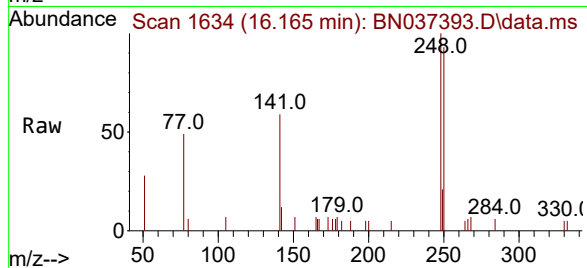
Tgt Ion:248 Resp: 1722

Ion Ratio Lower Upper

248 100

250 93.5 77.0 115.4

141 58.7 38.7 58.1#



#22

Hexachlorobenzene

Concen: 0.427 ng

RT: 16.276 min Scan# 1643

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

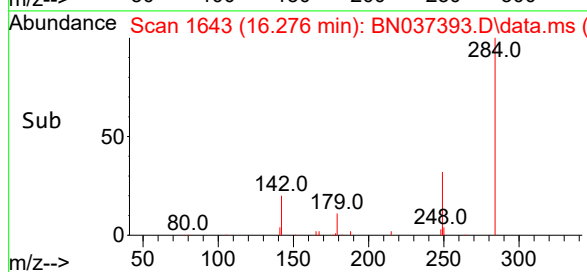
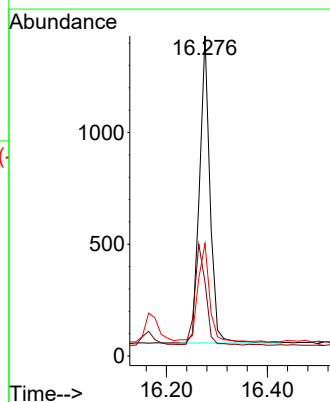
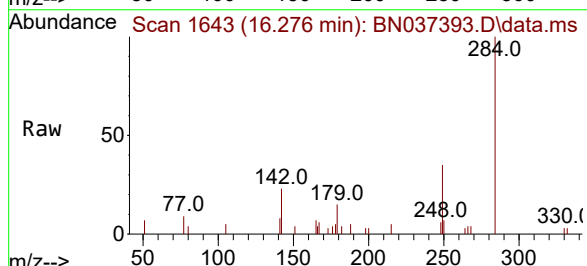
Tgt Ion:284 Resp: 1984

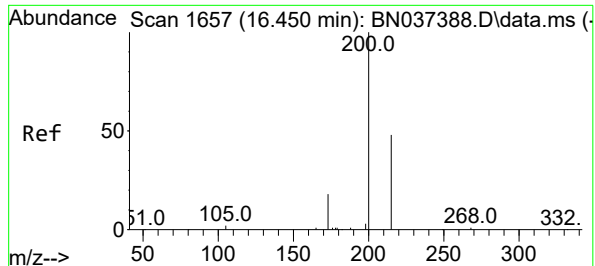
Ion Ratio Lower Upper

284 100

142 34.2 27.2 40.8

249 36.5 26.7 40.1

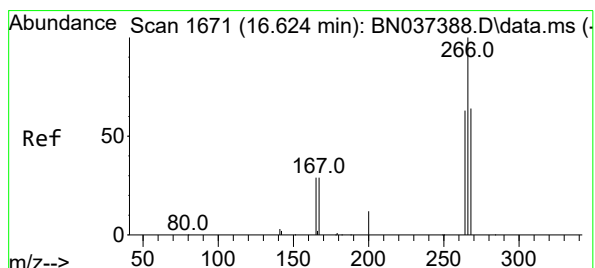
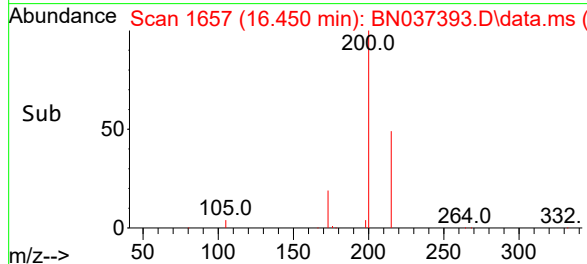
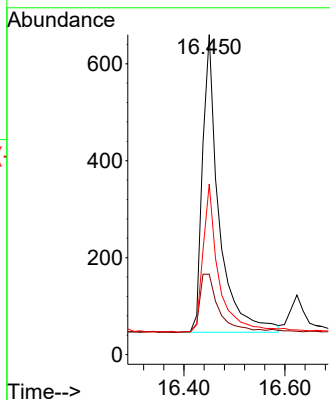
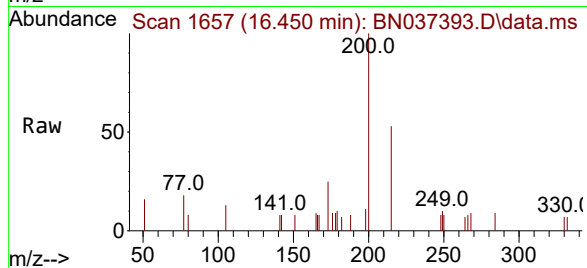




#23
Atrazine
Concen: 0.404 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

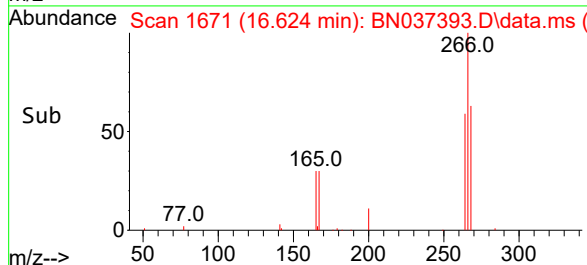
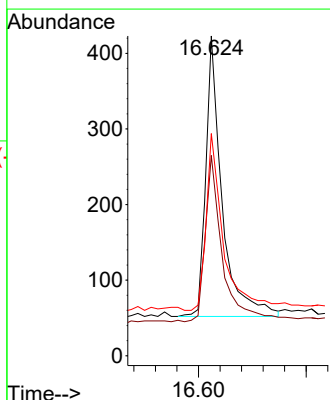
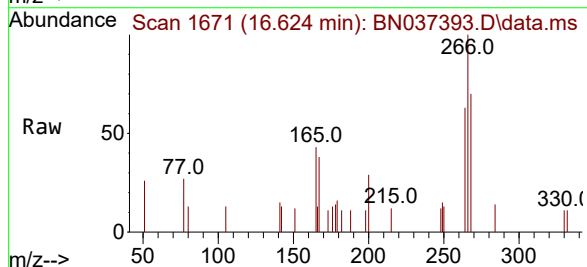
Instrument :
BNA_N
ClientSampleId :
ICVBN062625

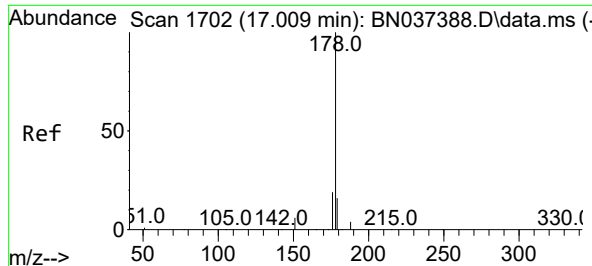
Tgt Ion:200 Resp: 1384
Ion Ratio Lower Upper
200 100
173 25.2 19.0 28.6
215 53.3 41.3 61.9



#24
Pentachlorophenol
Concen: 0.309 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion:266 Resp: 775
Ion Ratio Lower Upper
266 100
264 64.0 49.2 73.8
268 68.8 54.2 81.4





#25

Phenanthrene

Concen: 0.410 ng

RT: 17.009 min Scan# 1702

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625

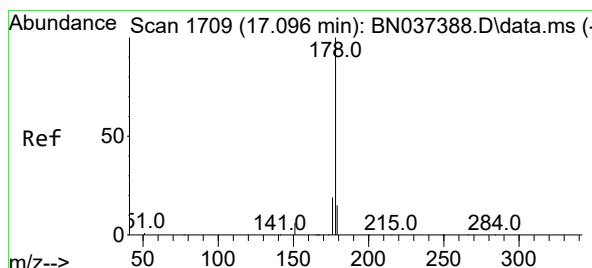
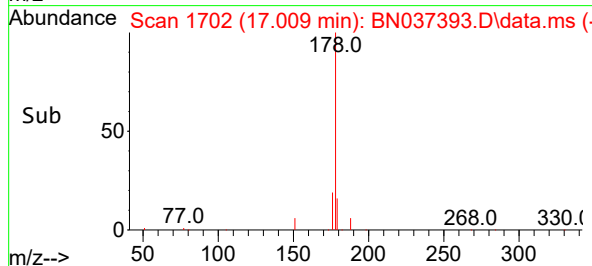
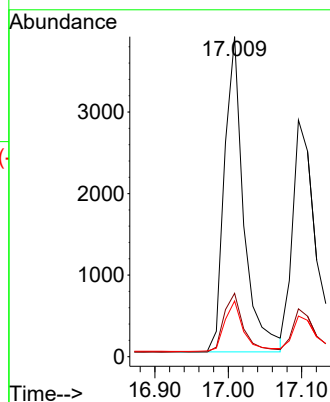
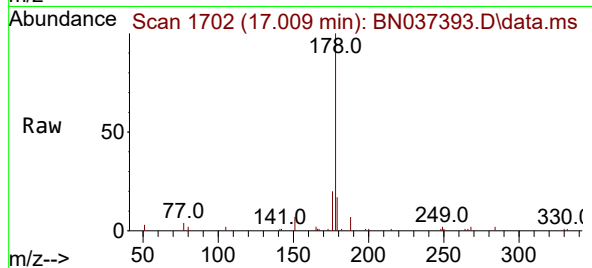
Tgt Ion:178 Resp: 7070

Ion Ratio Lower Upper

178 100

176 19.1 15.6 23.4

179 15.4 12.8 19.2



#26

Anthracene

Concen: 0.409 ng

RT: 17.095 min Scan# 1709

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

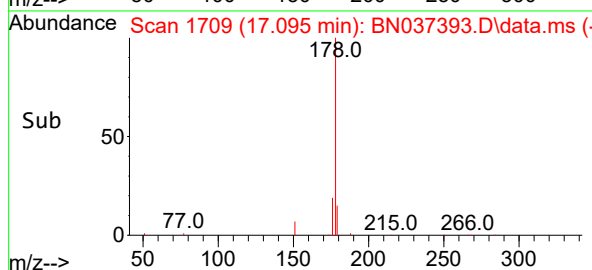
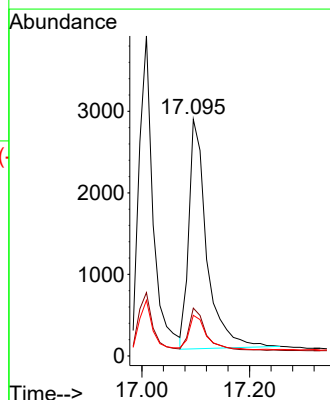
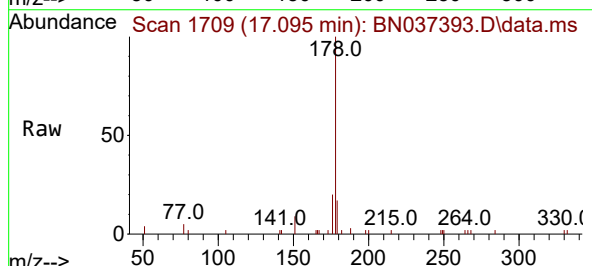
Tgt Ion:178 Resp: 6496

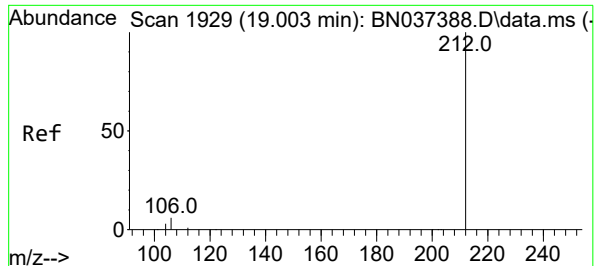
Ion Ratio Lower Upper

178 100

176 18.1 14.9 22.3

179 14.8 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.391 ng

RT: 19.003 min Scan# 1929

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625

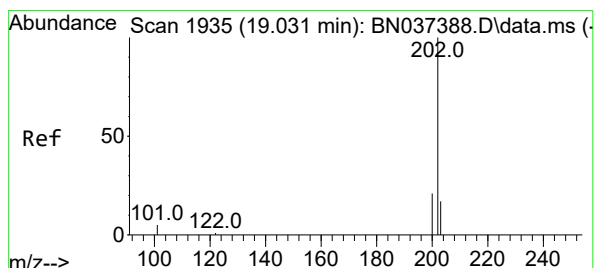
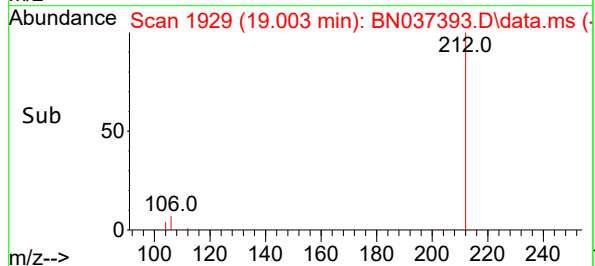
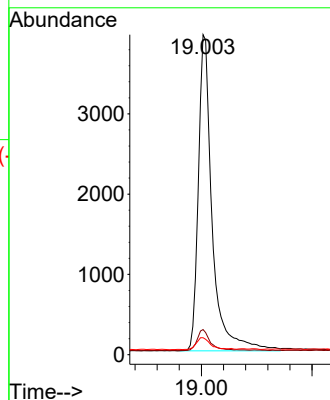
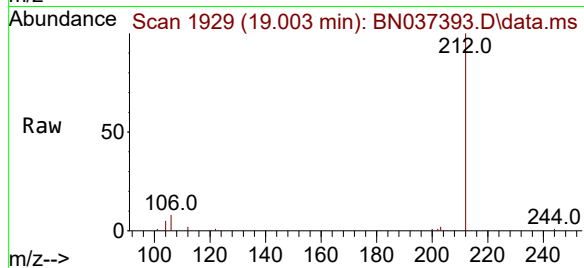
Tgt Ion:212 Resp: 6867

Ion Ratio Lower Upper

212 100

106 6.5 4.5 6.7

104 3.9 2.7 4.1



#28

Fluoranthene

Concen: 0.382 ng

RT: 19.035 min Scan# 1936

Delta R.T. 0.005 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

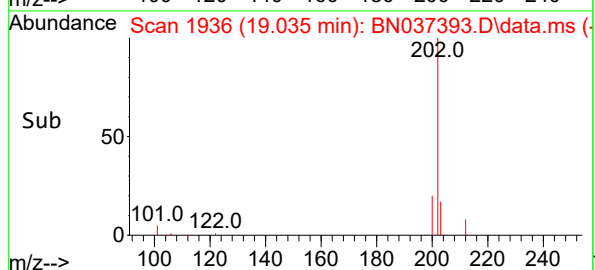
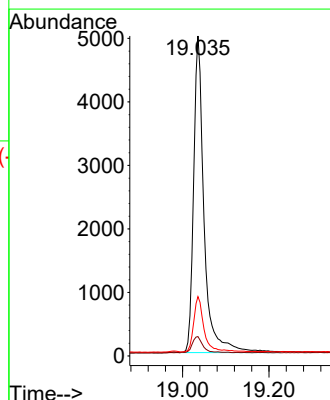
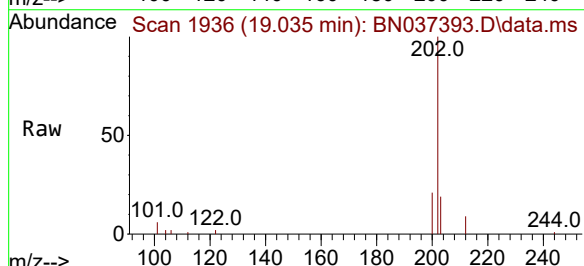
Tgt Ion:202 Resp: 8423

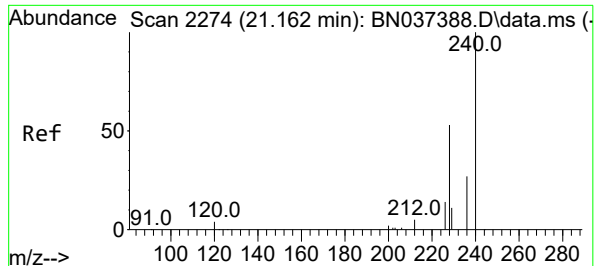
Ion Ratio Lower Upper

202 100

101 5.1 3.8 5.6

203 17.3 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625

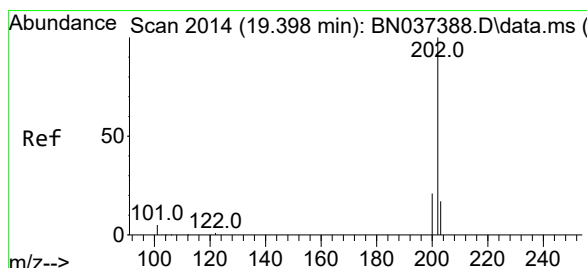
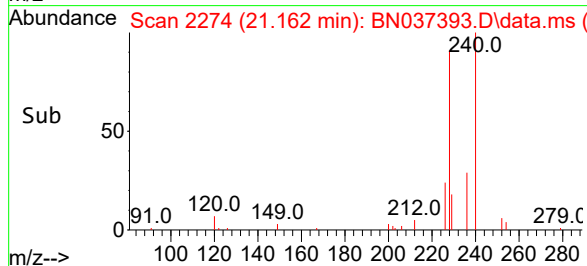
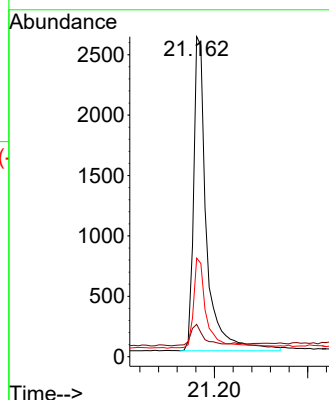
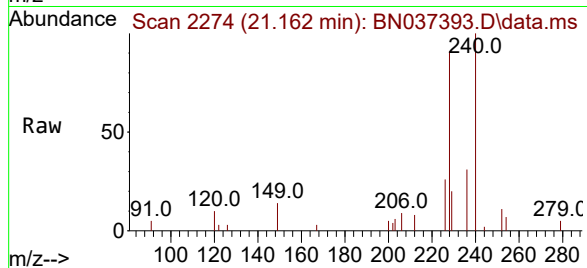
Tgt Ion:240 Resp: 5019

Ion Ratio Lower Upper

240 100

120 10.1 5.3 7.9#

236 30.8 22.7 34.1



#30

Pyrene

Concen: 0.440 ng

RT: 19.398 min Scan# 2014

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

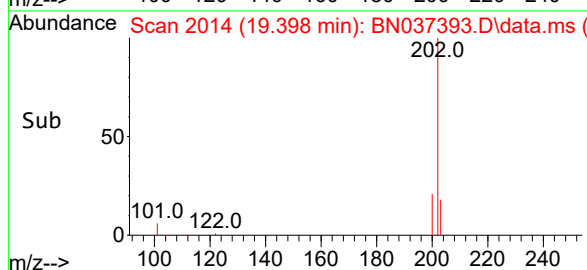
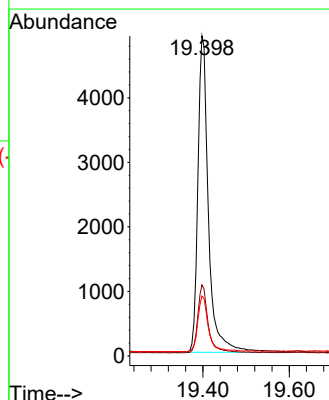
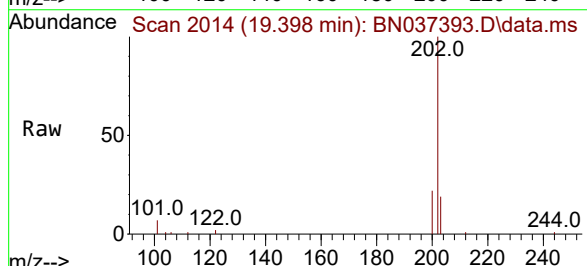
Tgt Ion:202 Resp: 8354

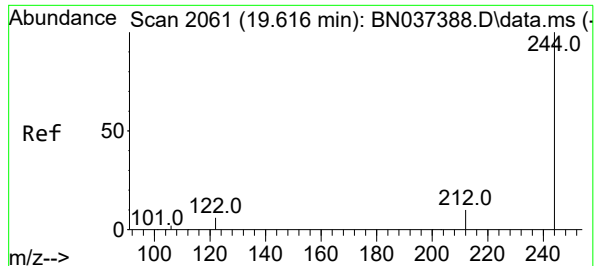
Ion Ratio Lower Upper

202 100

200 21.0 16.5 24.7

203 17.8 14.2 21.2

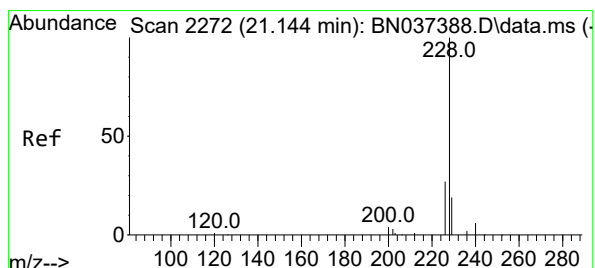
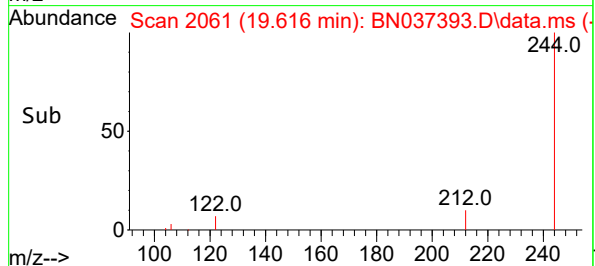
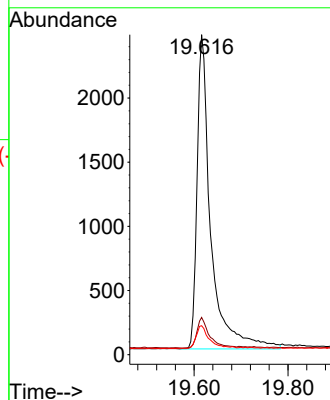
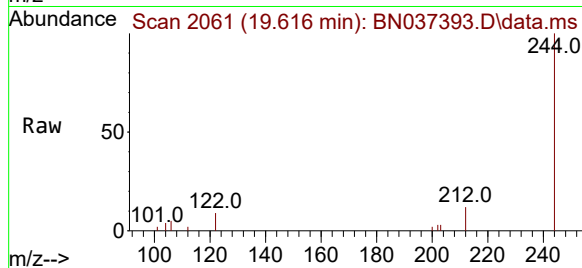




#31
Terphenyl-d14
Concen: 0.464 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.000 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

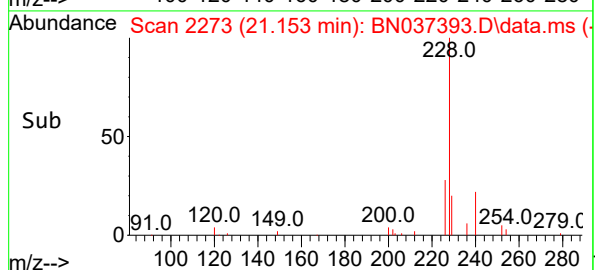
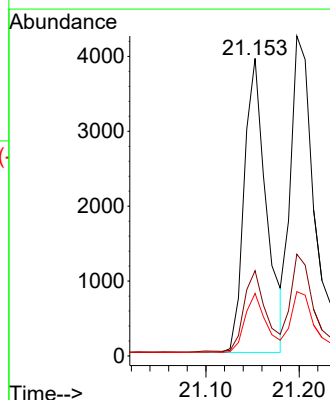
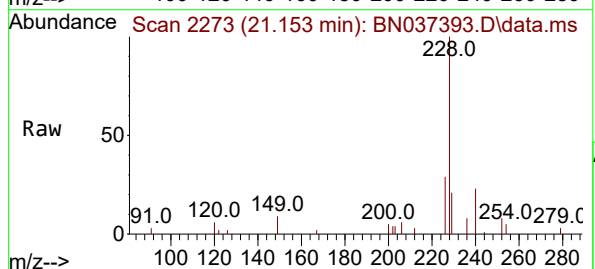
Instrument :
BNA_N
ClientSampleId :
ICVBN062625

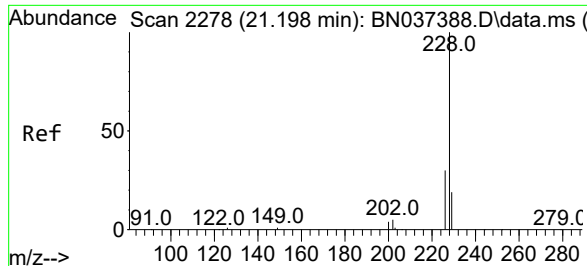
Tgt Ion	Ratio	Lower	Upper
244	100		
212	11.6	9.1	13.7
122	9.0	6.3	9.5



#32
Benzo(a)anthracene
Concen: 0.412 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.009 min
Lab File: BN037393.D
Acq: 26 Jun 2025 14:54

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.6	34.0
229	21.0	16.2	24.2





#33

Chrysene

Concen: 0.407 ng

RT: 21.198 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625

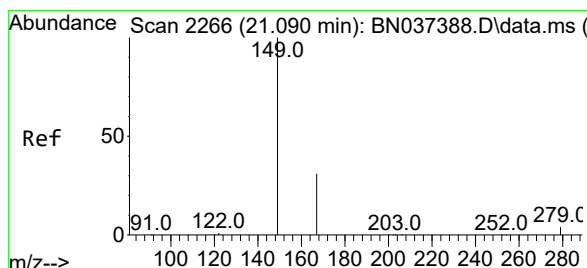
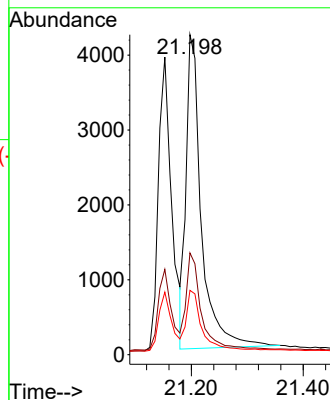
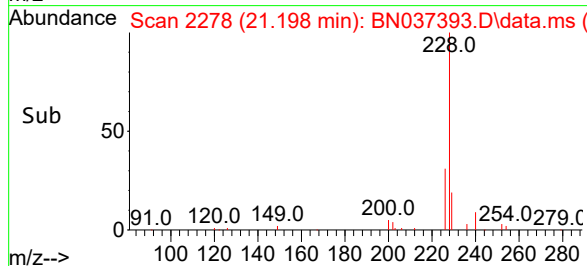
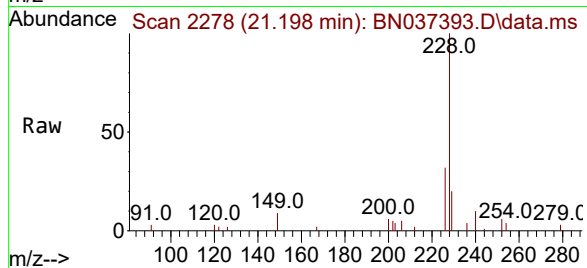
Tgt Ion:228 Resp: 7943

Ion Ratio Lower Upper

228 100

226 31.8 24.5 36.7

229 20.1 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.444 ng

RT: 21.090 min Scan# 2266

Delta R.T. -0.000 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

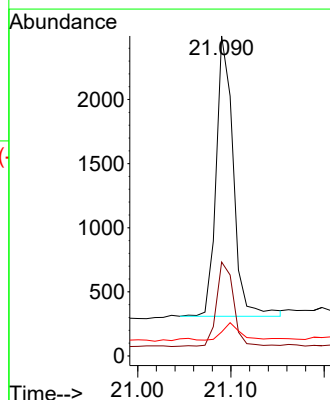
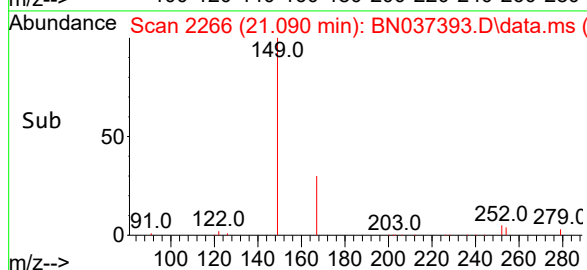
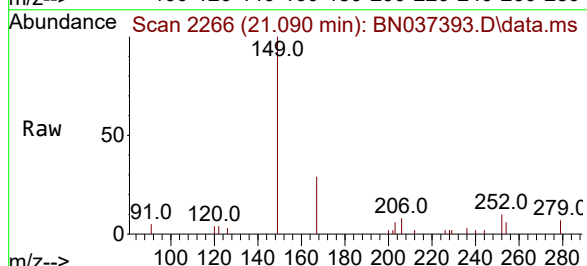
Tgt Ion:149 Resp: 2775

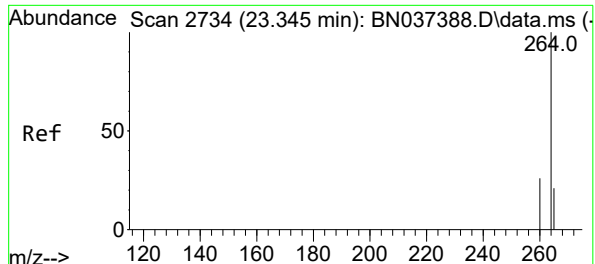
Ion Ratio Lower Upper

149 100

167 30.4 24.8 37.2

279 6.2 5.0 7.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.348 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037393.D

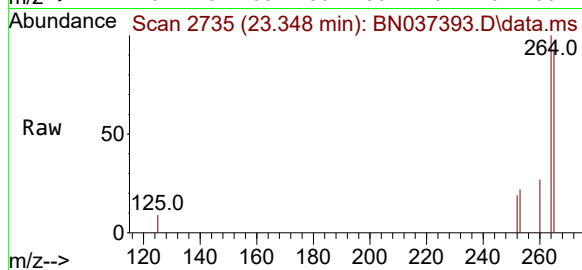
Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625



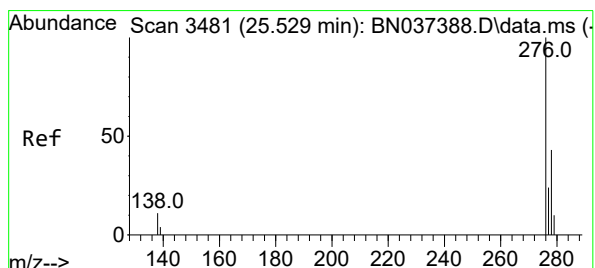
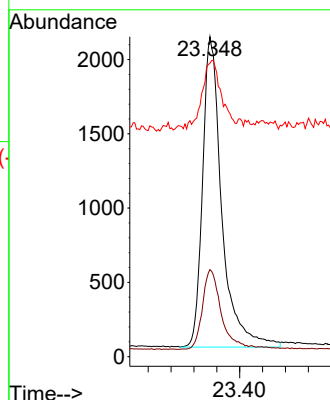
Tgt Ion:264 Resp: 4884

Ion Ratio Lower Upper

264 100

260 27.2 21.4 32.0

265 91.7 56.2 84.4#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.415 ng

RT: 25.532 min Scan# 3482

Delta R.T. 0.003 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

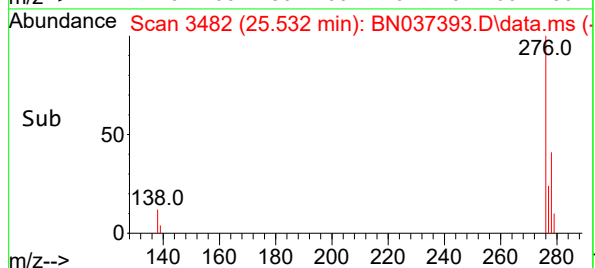
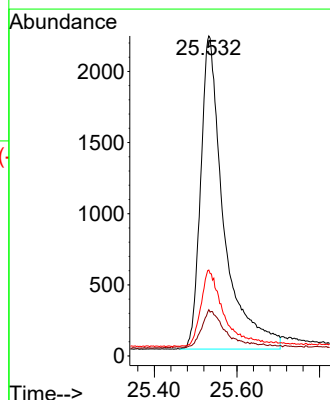
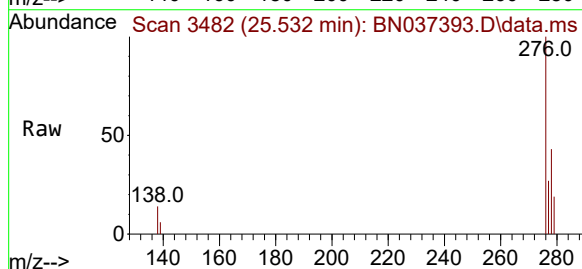
Tgt Ion:276 Resp: 8543

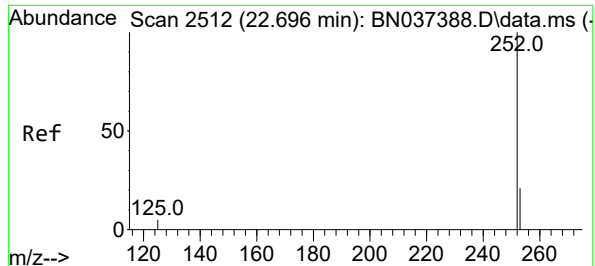
Ion Ratio Lower Upper

276 100

138 11.6 8.5 12.7

277 22.6 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.393 ng

RT: 22.699 min Scan# 2512

Delta R.T. 0.003 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625

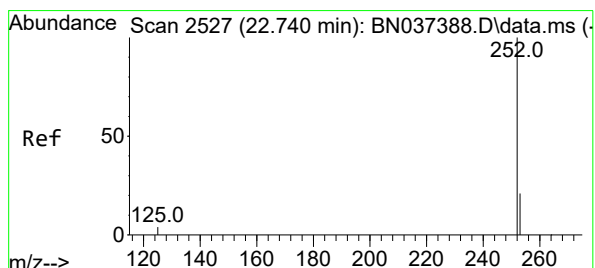
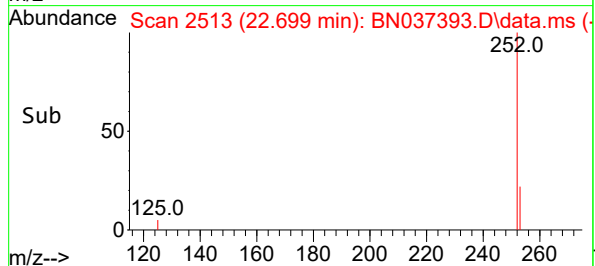
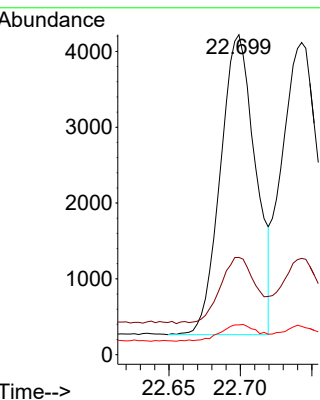
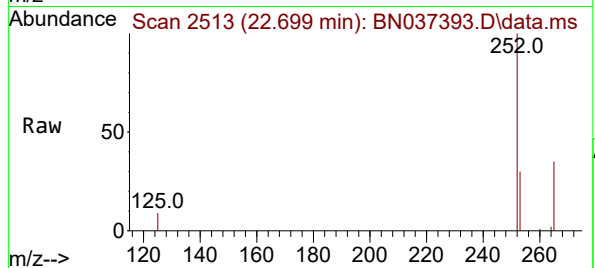
Tgt Ion:252 Resp: 6764

Ion Ratio Lower Upper

252 100

253 30.4 22.8 34.2

125 9.3 6.2 9.4



#38

Benzo(k)fluoranthene

Concen: 0.441 ng

RT: 22.743 min Scan# 2528

Delta R.T. 0.003 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

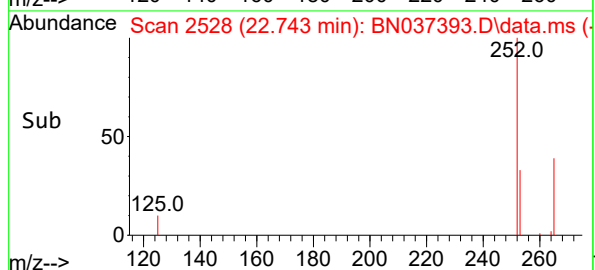
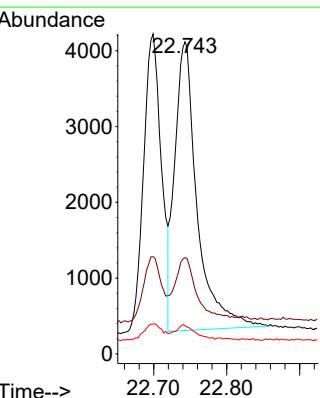
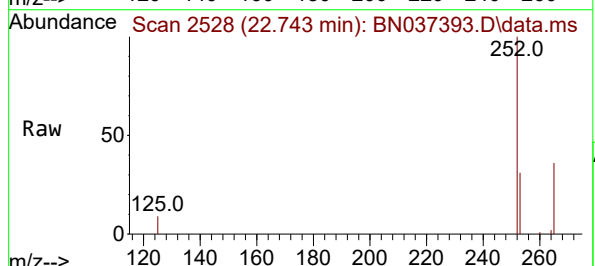
Tgt Ion:252 Resp: 8109

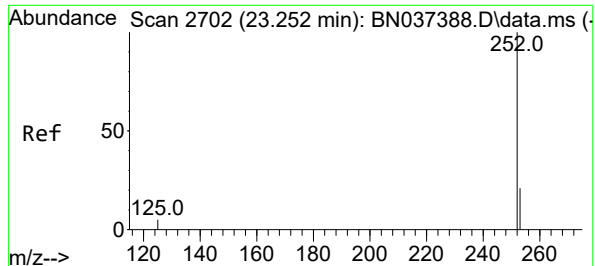
Ion Ratio Lower Upper

252 100

253 30.8 23.2 34.8

125 9.1 6.0 9.0#





#39

Benzo(a)pyrene

Concen: 0.432 ng

RT: 23.254 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625

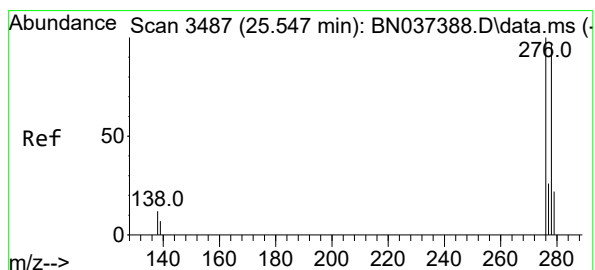
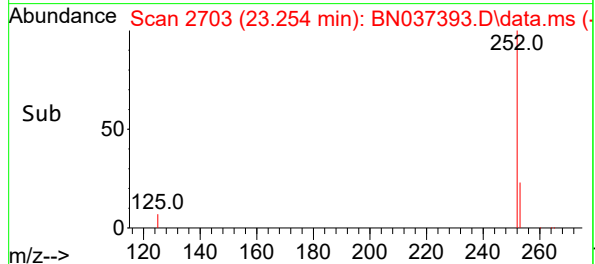
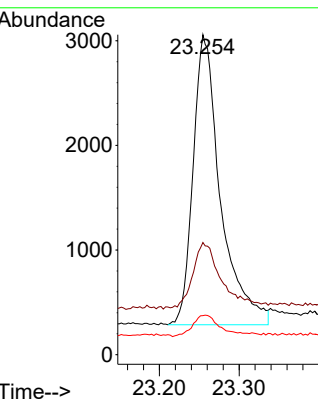
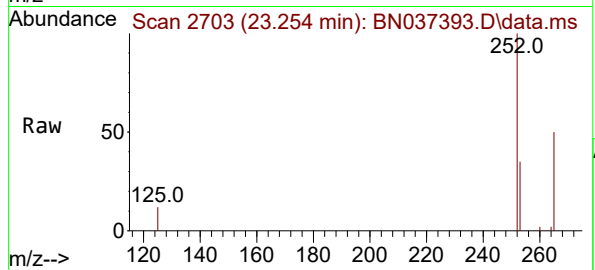
Tgt Ion:252 Resp: 6621

Ion Ratio Lower Upper

252 100

253 35.1 25.6 38.4

125 12.2 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.407 ng

RT: 25.552 min Scan# 3489

Delta R.T. 0.006 min

Lab File: BN037393.D

Acq: 26 Jun 2025 14:54

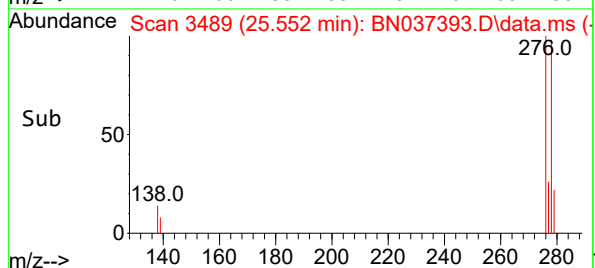
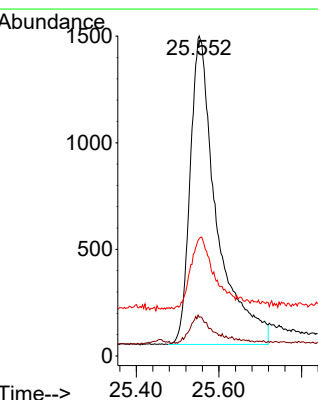
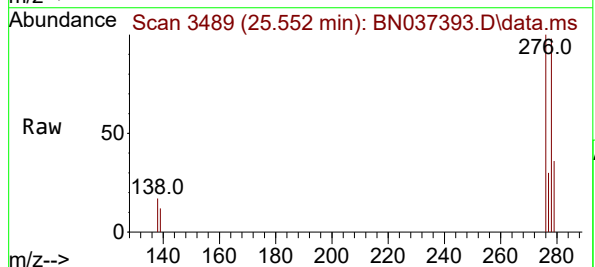
Tgt Ion:278 Resp: 6443

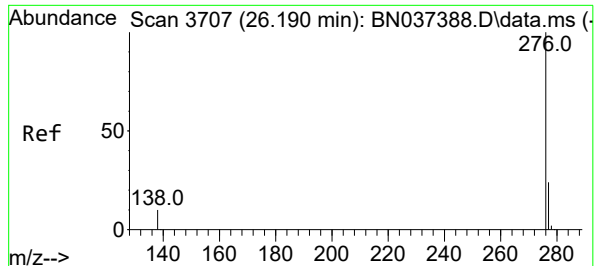
Ion Ratio Lower Upper

278 100

139 12.1 8.5 12.7

279 36.6 27.5 41.3





#41

Benzo(g,h,i)perylene

Concen: 0.397 ng

RT: 26.193 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037393.D

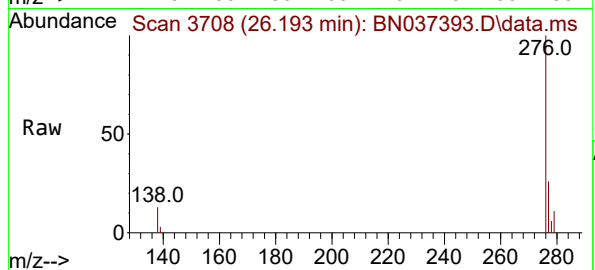
Acq: 26 Jun 2025 14:54

Instrument :

BNA_N

ClientSampleId :

ICVBN062625



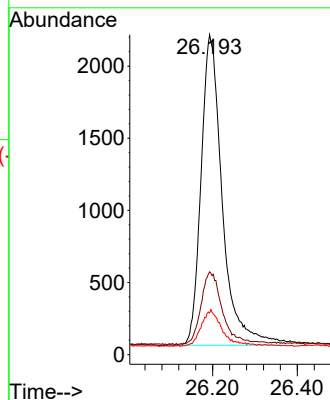
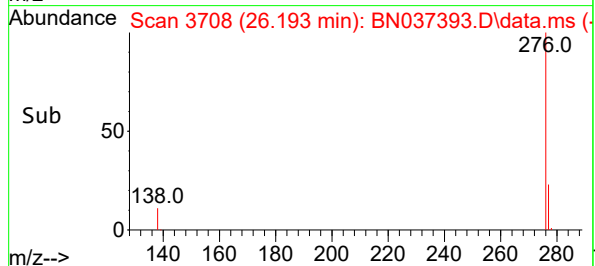
Tgt Ion:276 Resp: 7497

Ion Ratio Lower Upper

276 100

277 25.9 21.0 31.4

138 13.0 9.6 14.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037393.D
Acq On : 26 Jun 2025 14:54
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Quant Time: Jun 26 16:06:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 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	103	0.00
2	1,4-Dioxane	0.379	0.468	-23.5	130	0.00
3	n-Nitrosodimethylamine	0.375	0.390	-4.0	107	0.00
4 S	2-Fluorophenol	0.771	0.725	6.0	92	0.00
5 S	Phenol-d6	0.799	0.746	6.6	94	0.00
6	bis(2-Chloroethyl)ether	0.711	0.818	-15.0	117	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	106	0.00
8 S	Nitrobenzene-d5	0.321	0.340	-5.9	116	0.00
9	Naphthalene	1.030	1.070	-3.9	114	0.00
10	Hexachlorobutadiene	0.409	0.421	-2.9	108	0.00
11 SURR	2-Methylnaphthalene-d10	0.619	0.652	-5.3	120	0.00
12	2-Methylnaphthalene	0.709	0.651	8.2	101	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	101	0.00
14 S	2,4,6-Tribromophenol	0.235	0.203	13.6	85	0.00
15 S	2-Fluorobiphenyl	1.727	1.959	-13.4	114	0.00
16	Acenaphthylene	1.659	1.857	-11.9	119	0.00
17	Acenaphthene	1.083	1.121	-3.5	108	0.00
18	Fluorene	1.530	1.558	-1.8	106	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	98	0.01
20	4,6-Dinitro-2-methylphenol	0.103	0.081	21.4	93	0.01
21	4-Bromophenyl-phenylether	0.282	0.281	0.4	102	0.00
22	Hexachlorobenzene	0.303	0.324	-6.9	104	0.00
23	Atrazine	0.224	0.226	-0.9	104	0.00
24	Pentachlorophenol	0.164	0.126	23.2	80	0.00
25	Phenanthrene	1.127	1.154	-2.4	104	0.00
26	Anthracene	1.036	1.060	-2.3	107	0.00
27 SURR	Fluoranthene-d10	1.146	1.121	2.2	103	0.00
28	Fluoranthene	1.439	1.375	4.4	98	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	89	0.00
30	Pyrene	1.514	1.664	-9.9	97	0.00
31 S	Terphenyl-d14	0.853	0.988	-15.8	102	0.00
32	Benzo(a)anthracene	1.257	1.294	-2.9	99	0.00
33	Chrysene	1.556	1.583	-1.7	89	0.00
34	Bis(2-ethylhexyl)phthalate	0.498	0.553	-11.0	98	0.00
35 I	Perylene-d12	1.000	1.000	0.0	82	0.00
36	Indeno(1,2,3-cd)pyrene	1.686	1.749	-3.7	91	0.00
37	Benzo(b)fluoranthene	1.410	1.385	1.8	86	0.00
38	Benzo(k)fluoranthene	1.507	1.660	-10.2	93	0.00
39 C	Benzo(a)pyrene	1.254	1.356	-8.1	94	0.00
40	Dibenzo(a,h)anthracene	1.296	1.319	-1.8	89	0.00
41	Benzo(g,h,i)perylene	1.548	1.535	0.8	85	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037393.D
Acq On : 26 Jun 2025 14:54
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN062625

Quant Time: Jun 26 16:06:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 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	103	0.00
2	1,4-Dioxane	0.400	0.493	-23.2	130	0.00
3	n-Nitrosodimethylamine	0.400	0.417	-4.2	107	0.00
4 S	2-Fluorophenol	0.400	0.376	6.0	92	0.00
5 S	Phenol-d6	0.400	0.373	6.8	94	0.00
6	bis(2-Chloroethyl)ether	0.400	0.460	-15.0	117	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	106	0.00
8 S	Nitrobenzene-d5	0.400	0.425	-6.2	116	0.00
9	Naphthalene	0.400	0.416	-4.0	114	0.00
10	Hexachlorobutadiene	0.400	0.412	-3.0	108	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.421	-5.2	120	0.00
12	2-Methylnaphthalene	0.400	0.367	8.3	101	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	101	0.00
14 S	2,4,6-Tribromophenol	0.400	0.347	13.3	85	0.00
15 S	2-Fluorobiphenyl	0.400	0.454	-13.5	114	0.00
16	Acenaphthylene	0.400	0.448	-12.0	119	0.00
17	Acenaphthene	0.400	0.414	-3.5	108	0.00
18	Fluorene	0.400	0.407	-1.7	106	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	98	0.01
20	4,6-Dinitro-2-methylphenol	0.400	0.316	21.0	93	0.01
21	4-Bromophenyl-phenylether	0.400	0.398	0.5	102	0.00
22	Hexachlorobenzene	0.400	0.427	-6.7	104	0.00
23	Atrazine	0.400	0.404	-1.0	104	0.00
24	Pentachlorophenol	0.400	0.309	22.8	80	0.00
25	Phenanthrene	0.400	0.410	-2.5	104	0.00
26	Anthracene	0.400	0.409	-2.2	107	0.00
27 SURR	Fluoranthene-d10	0.400	0.391	2.3	103	0.00
28	Fluoranthene	0.400	0.382	4.5	98	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	89	0.00
30	Pyrene	0.400	0.440	-10.0	97	0.00
31 S	Terphenyl-d14	0.400	0.464	-16.0	102	0.00
32	Benzo(a)anthracene	0.400	0.412	-3.0	99	0.00
33	Chrysene	0.400	0.407	-1.7	89	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.444	-11.0	98	0.00
35 I	Perylene-d12	0.400	0.400	0.0	82	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.415	-3.7	91	0.00
37	Benzo(b)fluoranthene	0.400	0.393	1.8	86	0.00
38	Benzo(k)fluoranthene	0.400	0.441	-10.2	93	0.00
39 C	Benzo(a)pyrene	0.400	0.432	-8.0	94	0.00
40	Dibenzo(a,h)anthracene	0.400	0.407	-1.7	89	0.00
41	Benzo(g,h,i)perylene	0.400	0.397	0.8	85	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2345 SAS No.: Q2345 SDG No.: Q2345

Instrument ID: BNA_N Calibration Date/Time: 06/21/2025 01:17

Lab File ID: BN037365.D Init. Calib. Date(s): 06/20/2025 06/20/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 16:51 20:27

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.648	0.670		3.4	50.0
Fluoranthene-d10	1.148	1.189		3.6	50.0
2-Fluorophenol	0.799	0.740		-7.4	50.0
Phenol-d6	0.823	0.753		-8.5	50.0
Nitrobenzene-d5	0.323	0.318		-1.5	50.0
2-Fluorobiphenyl	1.757	1.777		1.1	50.0
2,4,6-Tribromophenol	0.235	0.218		-7.2	50.0
Terphenyl-d14	0.912	0.903		-1.0	50.0
1,4-Dioxane	0.407	0.399		-2.0	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037365.D
 Acq On : 21 Jun 2025 01:17
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Jun 21 01:41:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:41:54 2025
 Response via : Initial Calibration

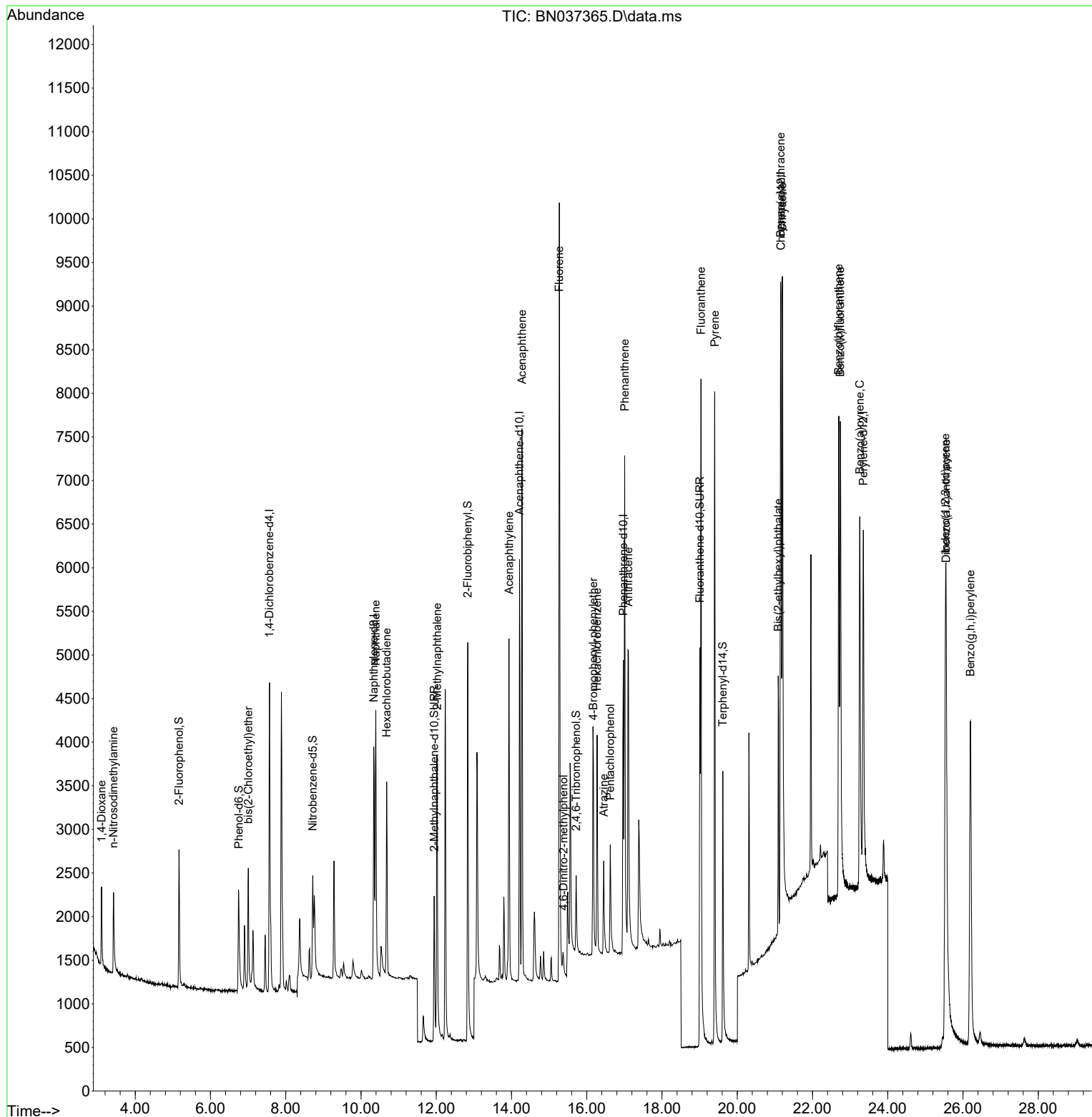
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1894	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4150	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2786	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5748	0.400	ng	# 0.00
29) Chrysene-d12	21.162	240	5140	0.400	ng	0.00
35) Perylene-d12	23.351	264	5682	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	1402	0.370	ng	0.00
5) Phenol-d6	6.752	99	1426	0.366	ng	0.00
8) Nitrobenzene-d5	8.717	82	1321	0.394	ng	0.00
11) 2-Methylnaphthalene-d10	11.945	152	2780	0.413	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	608	0.372	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	4951	0.405	ng	0.00
27) Fluoranthene-d10	19.008	212	6836	0.414	ng	0.00
31) Terphenyl-d14	19.616	244	4639	0.396	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	755	0.392	ng	95
3) n-Nitrosodimethylamine	3.422	42	701	0.397	ng	# 78
6) bis(2-Chloroethyl)ether	7.004	93	1274	0.368	ng	100
9) Naphthalene	10.394	128	4308	0.393	ng	# 90
10) Hexachlorobutadiene	10.682	225	1876	0.434	ng	# 100
12) 2-Methylnaphthalene	12.021	142	2941	0.385	ng	93
16) Acenaphthylene	13.935	152	4498	0.384	ng	98
17) Acenaphthene	14.277	154	2949	0.383	ng	98
18) Fluorene	15.272	166	4167	0.385	ng	99
20) 4,6-Dinitro-2-methylph...	15.379	198	483	0.350	ng	85
21) 4-Bromophenyl-phenylether	16.177	248	1621	0.396	ng	# 94
22) Hexachlorobenzene	16.276	284	1819	0.408	ng	99
23) Atrazine	16.450	200	1187	0.364	ng	# 87
24) Pentachlorophenol	16.624	266	805	0.363	ng	96
25) Phenanthrene	17.009	178	6282	0.377	ng	99
26) Anthracene	17.108	178	5522	0.360	ng	99
28) Fluoranthene	19.036	202	8102	0.385	ng	98
30) Pyrene	19.403	202	8105	0.388	ng	100
32) Benzo(a)anthracene	21.153	228	6359	0.376	ng	98
33) Chrysene	21.198	228	8015	0.391	ng	98
34) Bis(2-ethylhexyl)phtha...	21.090	149	2672	0.385	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.535	276	9725	0.382	ng	# 92
37) Benzo(b)fluoranthene	22.696	252	7592m	0.363	ng	
38) Benzo(k)fluoranthene	22.740	252	9018	0.398	ng	94
39) Benzo(a)pyrene	23.255	252	7122	0.380	ng	# 90
40) Dibenzo(a,h)anthracene	25.553	278	7424	0.388	ng	# 85
41) Benzo(g,h,i)perylene	26.199	276	8859	0.389	ng	95

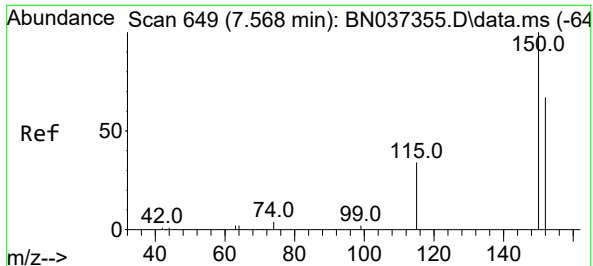
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037365.D
Acq On : 21 Jun 2025 01:17
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Jun 21 01:41:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration

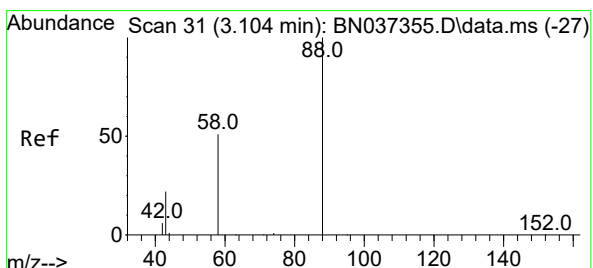
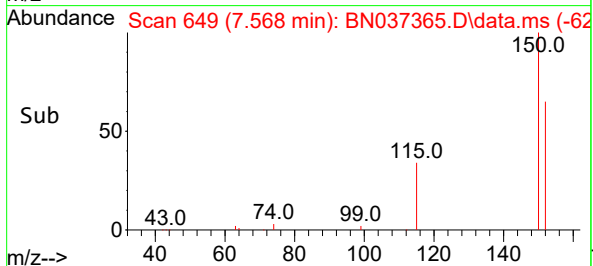
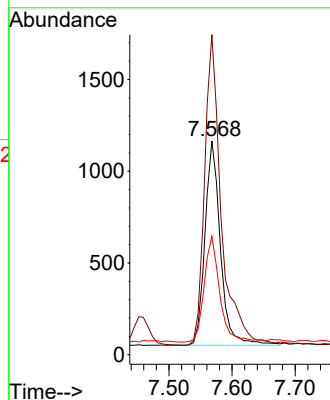
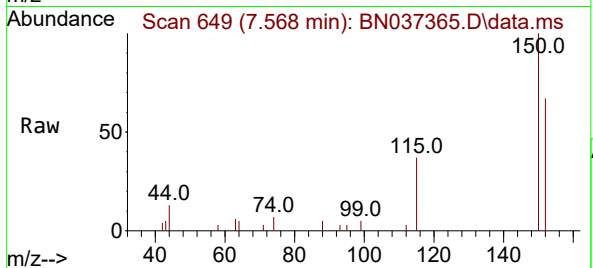




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

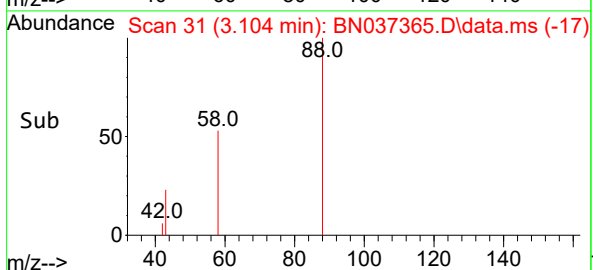
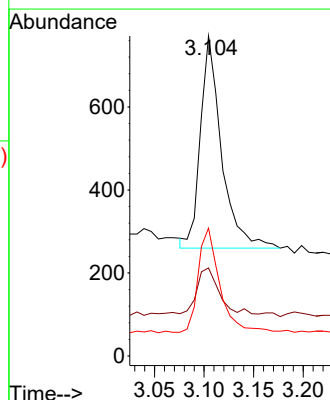
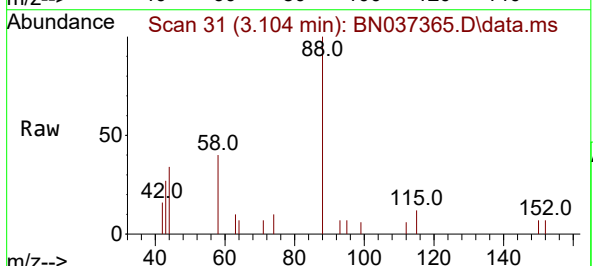
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1894
Ion Ratio Lower Upper
152 100
150 149.8 112.7 169.1
115 55.5 45.9 68.9

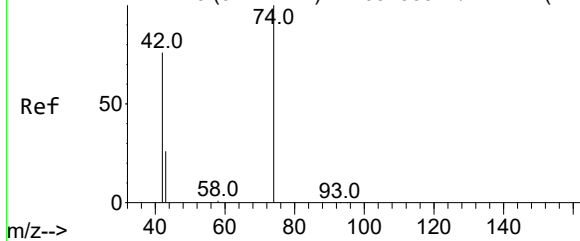


#2
1,4-Dioxane
Concen: 0.392 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion: 88 Resp: 755
Ion Ratio Lower Upper
88 100
43 22.8 21.0 31.6
58 49.9 38.0 57.0



Abundance Scan 75 (3.422 min): BN037355.D\data.ms (-71)



#3

n-Nitrosodimethylamine

Concen: 0.397 ng

RT: 3.422 min Scan# 71

Delta R.T. 0.000 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion: 42 Resp: 701

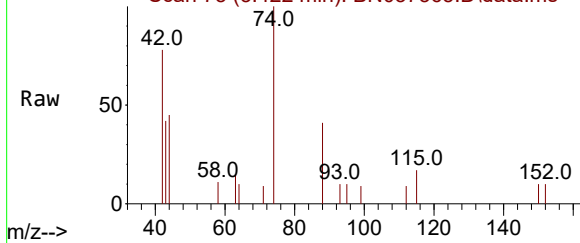
Ion Ratio Lower Upper

42 100

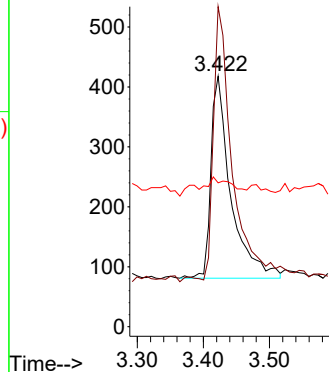
74 129.2 84.3 126.5#

44 9.3 5.0 7.4#

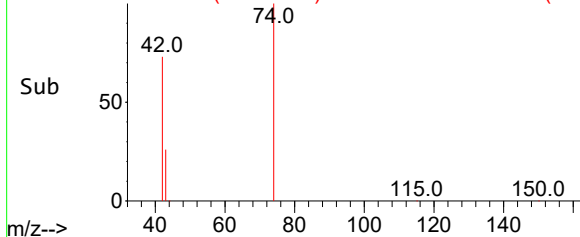
Abundance Scan 75 (3.422 min): BN037365.D\data.ms



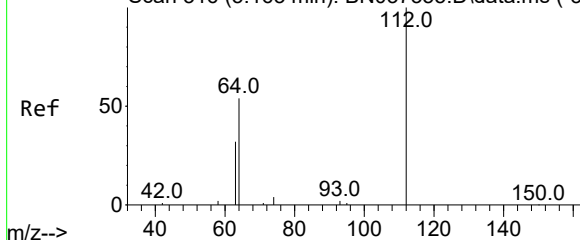
Abundance



Abundance Scan 75 (3.422 min): BN037365.D\data.ms (-54)



Abundance Scan 316 (5.163 min): BN037355.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 0.370 ng

RT: 5.163 min Scan# 316

Delta R.T. 0.000 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

Tgt Ion: 112 Resp: 1402

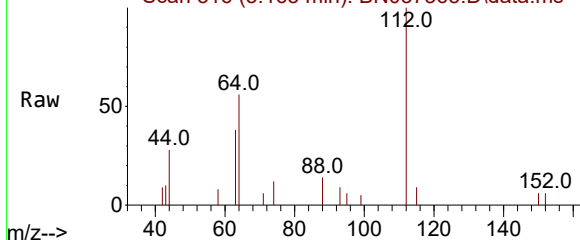
Ion Ratio Lower Upper

112 100

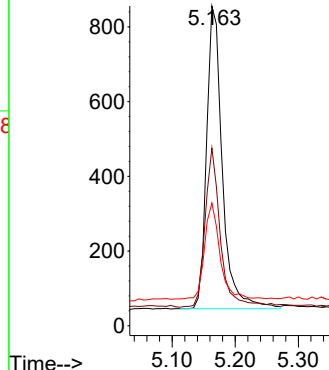
64 52.2 38.7 58.1

63 31.0 26.4 39.6

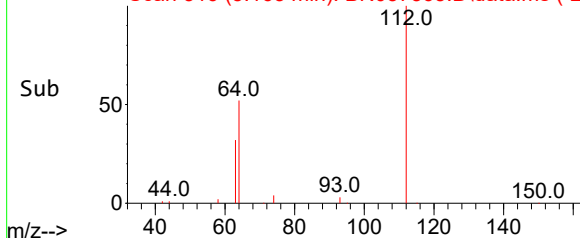
Abundance Scan 316 (5.163 min): BN037365.D\data.ms

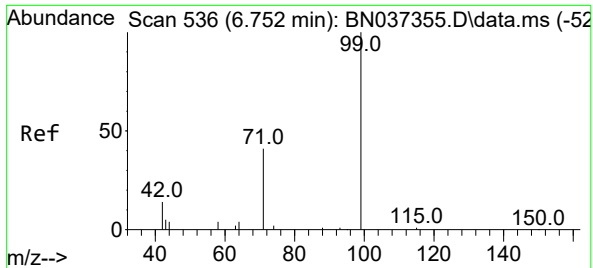


Abundance



Abundance Scan 316 (5.163 min): BN037365.D\data.ms (-28)

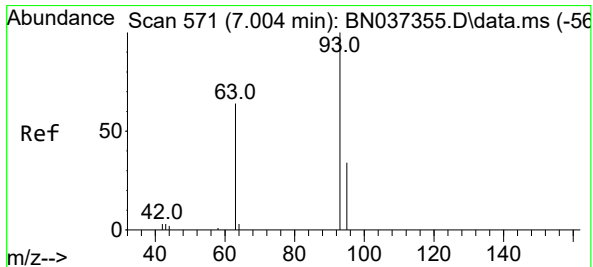
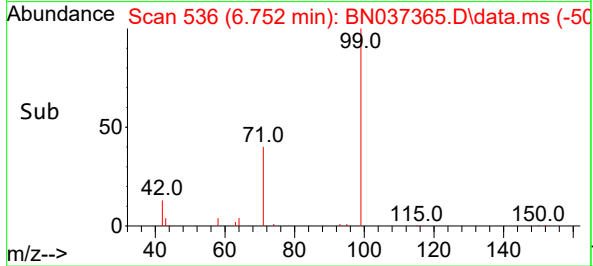
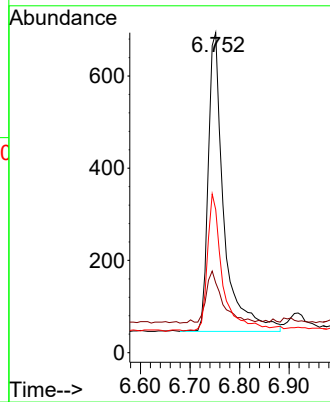
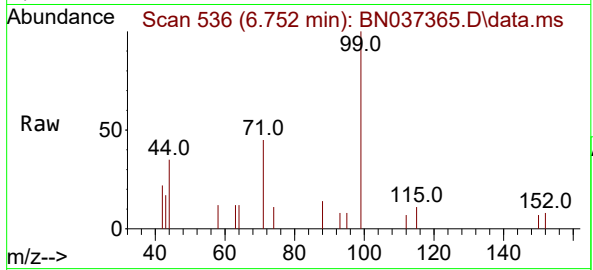




#5
Phenol-d6
Concen: 0.366 ng
RT: 6.752 min Scan# 511
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

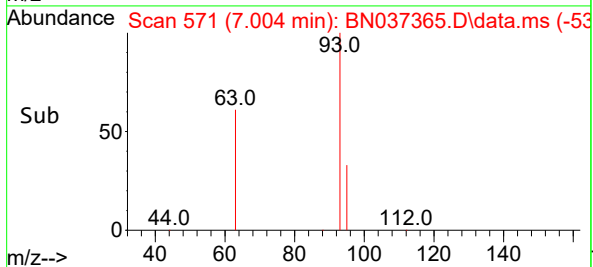
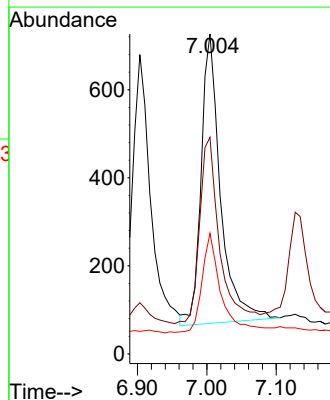
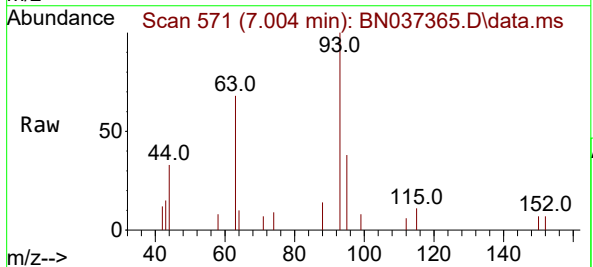
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

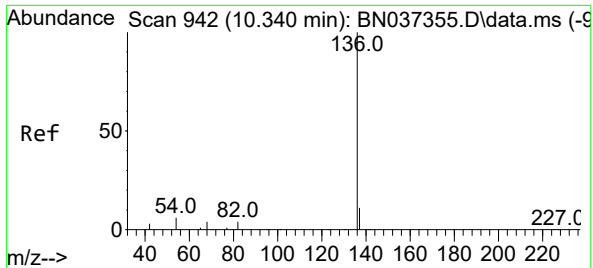
Tgt Ion: 99 Resp: 1426
Ion Ratio Lower Upper
99 100
42 18.2 19.8 29.8#
71 44.0 42.6 64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.368 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion: 93 Resp: 1274
Ion Ratio Lower Upper
93 100
63 66.6 53.2 79.8
95 33.8 27.3 40.9

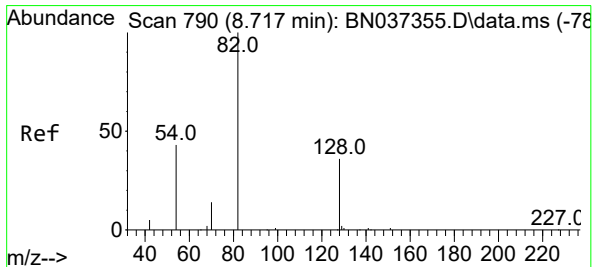
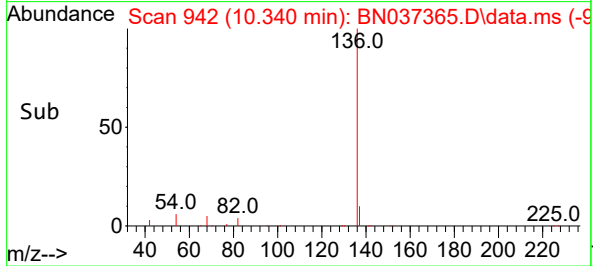
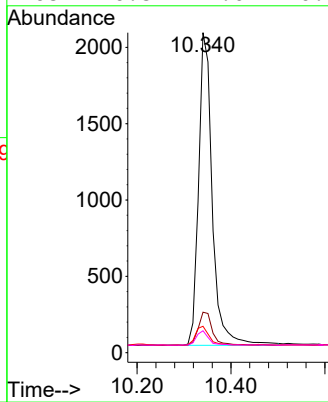
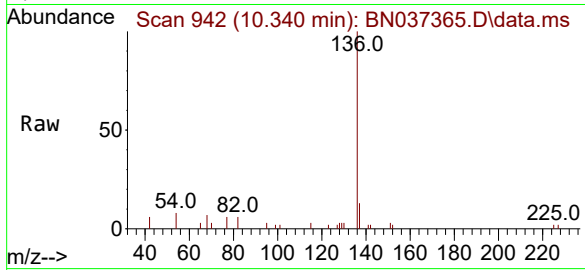




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

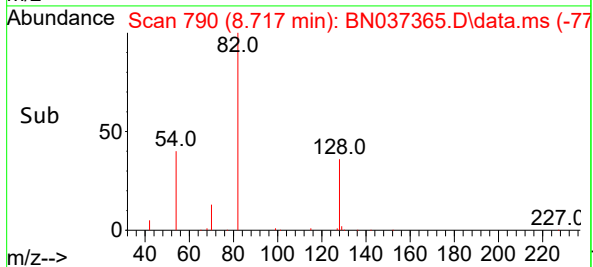
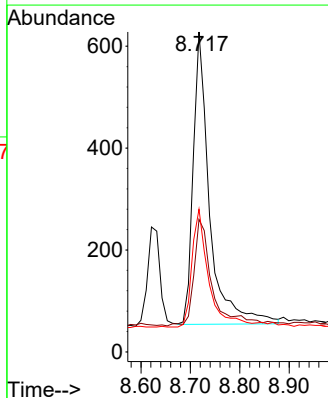
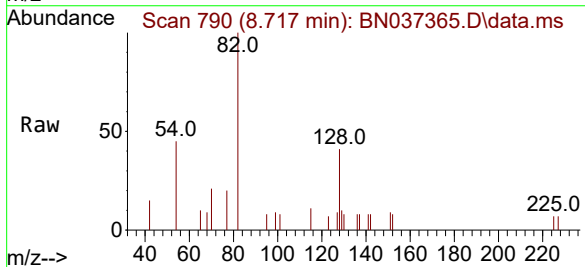
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

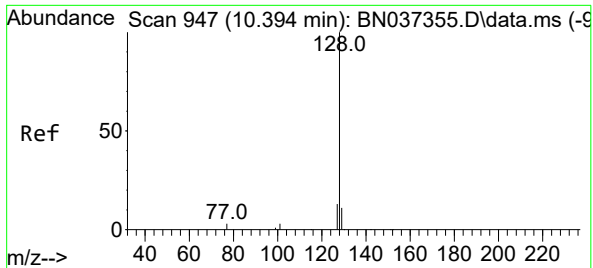
Tgt Ion:	136	Resp:	4150
Ion	Ratio	Lower	Upper
136	100		
137	12.6	12.2	18.2
54	8.3	8.8	13.2#
68	6.8	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 0.394 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:	82	Resp:	1321
Ion	Ratio	Lower	Upper
82	100		
128	41.4	42.5	63.7#
54	44.6	43.2	64.8

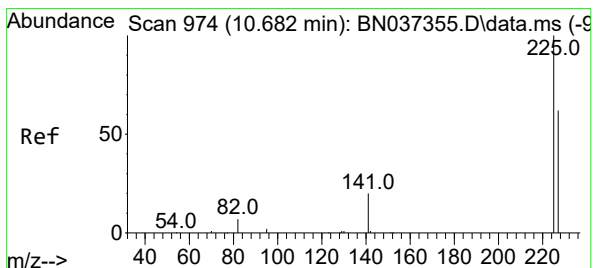
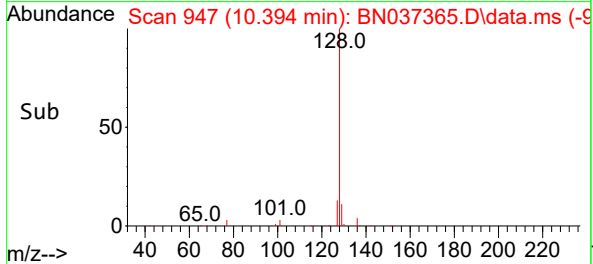
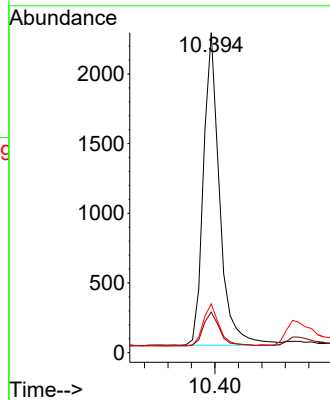
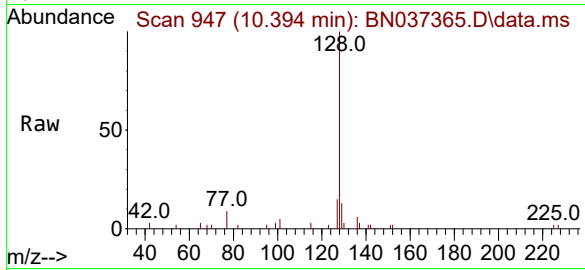




#9
Naphthalene
Concen: 0.393 ng
RT: 10.394 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

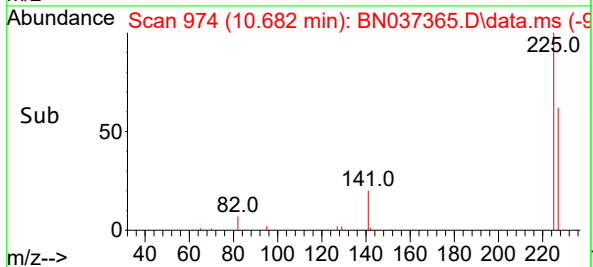
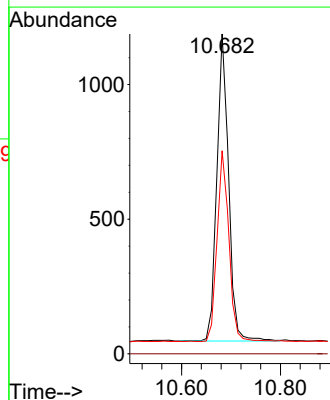
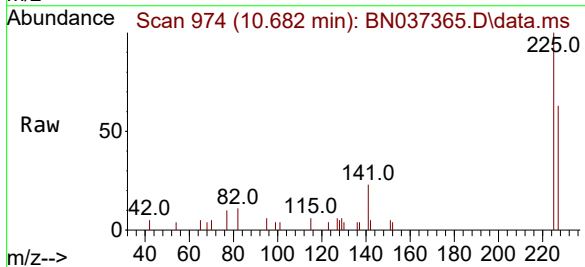
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

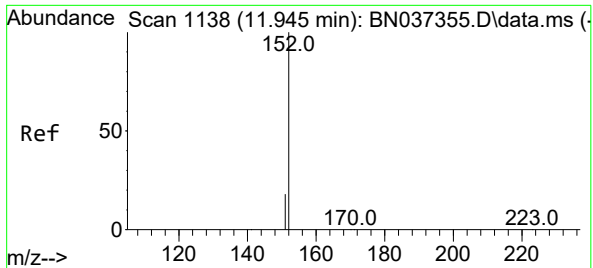
Tgt Ion:128 Resp: 4308
Ion Ratio Lower Upper
128 100
129 12.7 14.0 21.0#
127 15.2 15.8 23.8#



#10
Hexachlorobutadiene
Concen: 0.434 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:225 Resp: 1876
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.9 50.3 75.5

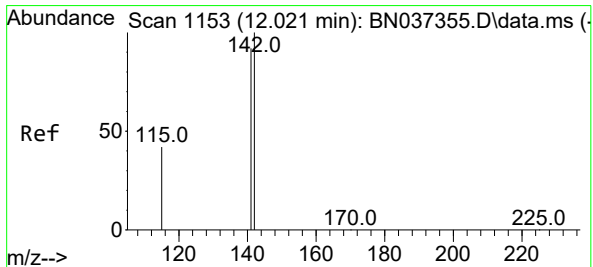
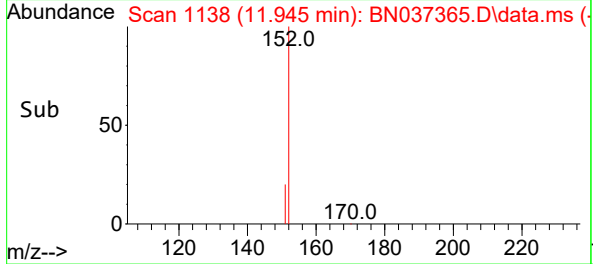
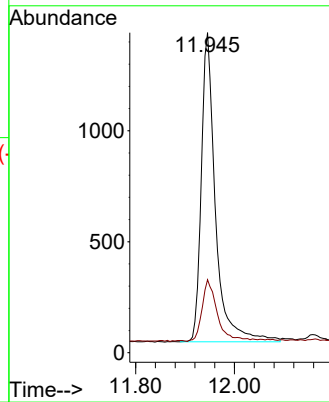
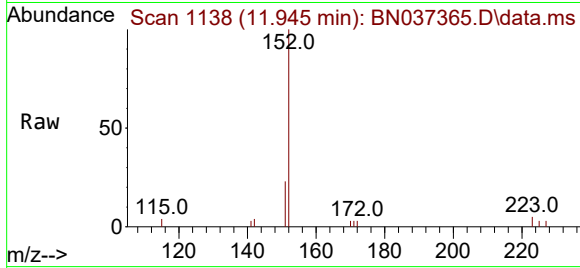




#11
2-Methylnaphthalene-d10
Concen: 0.413 ng
RT: 11.945 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

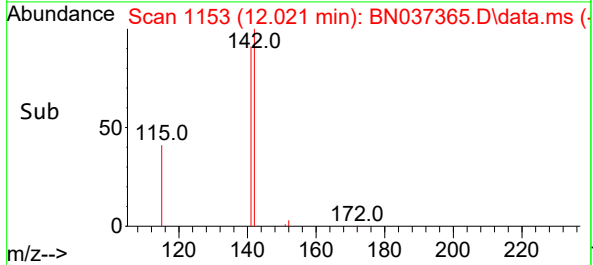
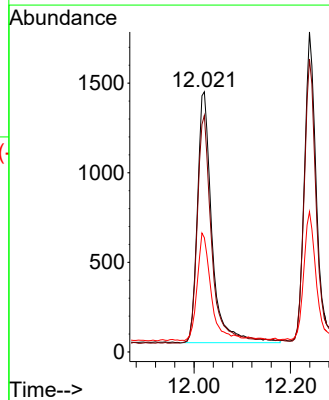
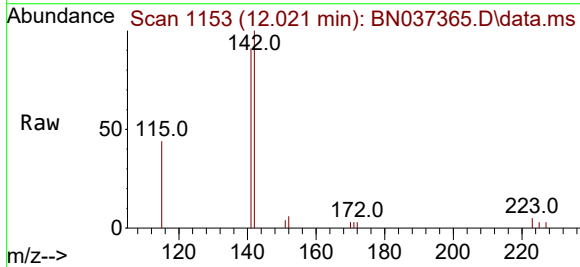
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

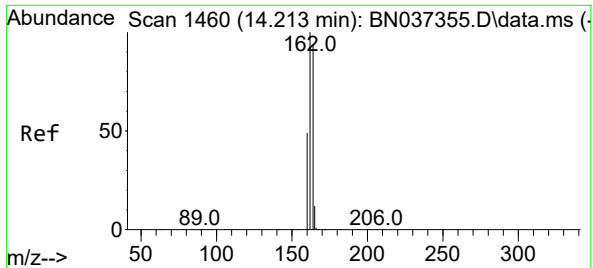
Tgt Ion:152 Resp: 2780
Ion Ratio Lower Upper
152 100
151 21.7 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:142 Resp: 2941
Ion Ratio Lower Upper
142 100
141 90.9 70.2 105.2
115 43.9 43.0 64.4

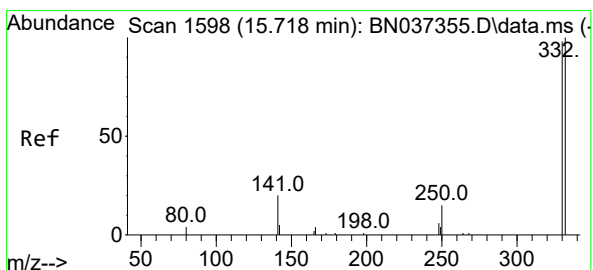
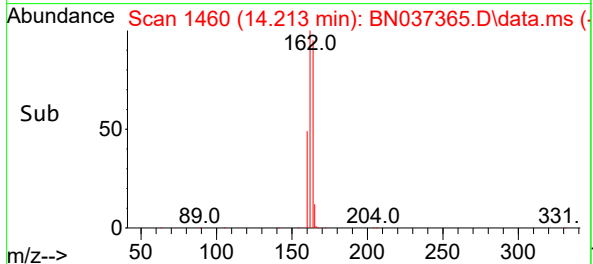
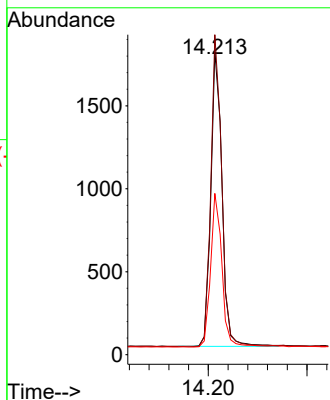
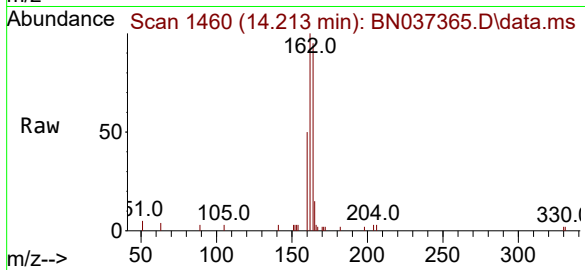




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

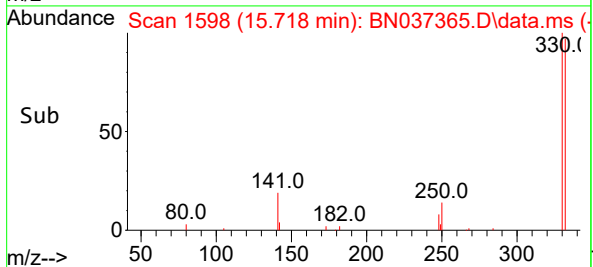
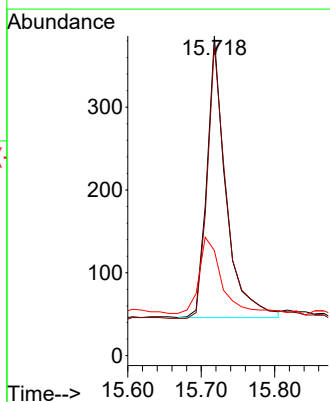
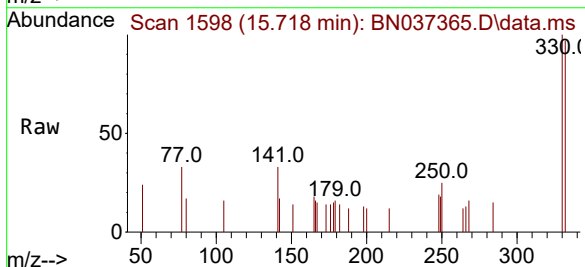
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

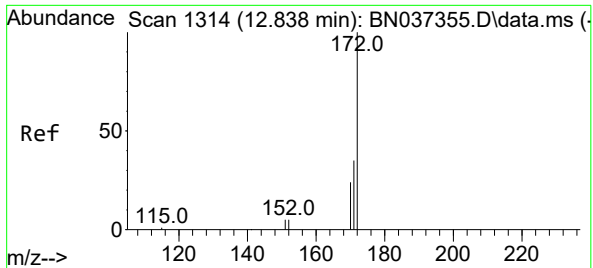
Tgt Ion	Ratio	Lower	Upper
164	100		
162	105.6	81.5	122.3
160	53.2	43.0	64.4



#14
2,4,6-Tribromophenol
Concen: 0.372 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion	Ratio	Lower	Upper
330	100		
332	102.3	78.4	117.6
141	35.9	24.4	36.6





#15

2-Fluorobiphenyl

Concen: 0.405 ng

RT: 12.838 min Scan# 1314

Delta R.T. 0.000 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

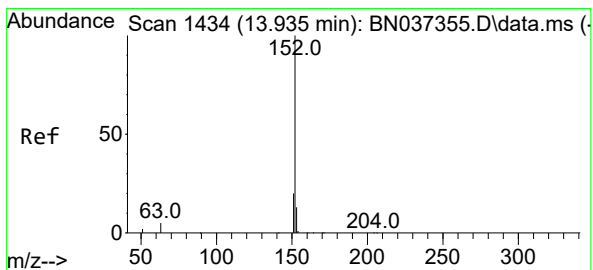
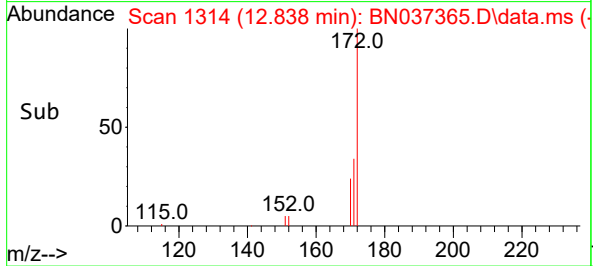
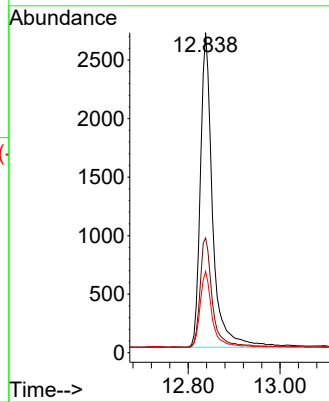
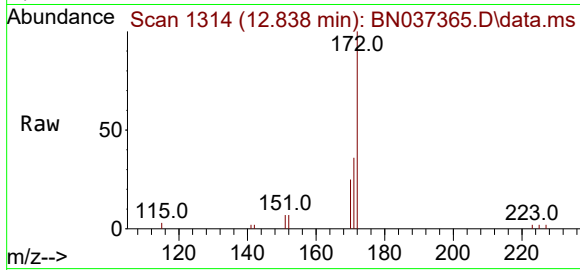
Tgt Ion:172 Resp: 4951

Ion Ratio Lower Upper

172 100

171 35.8 30.8 46.2

170 25.4 21.9 32.9



#16

Acenaphthylene

Concen: 0.384 ng

RT: 13.935 min Scan# 1434

Delta R.T. 0.000 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

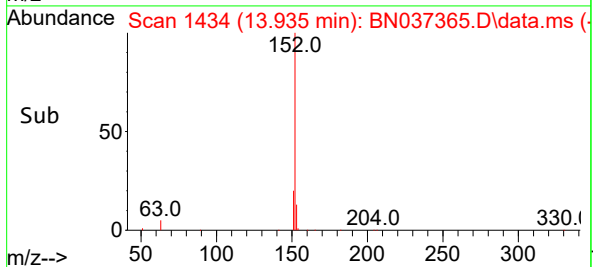
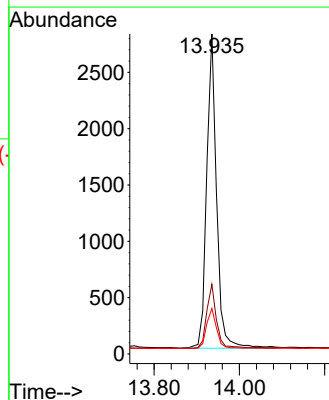
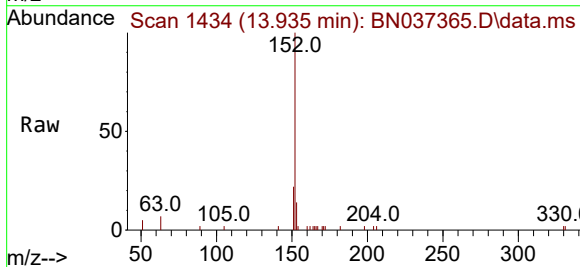
Tgt Ion:152 Resp: 4498

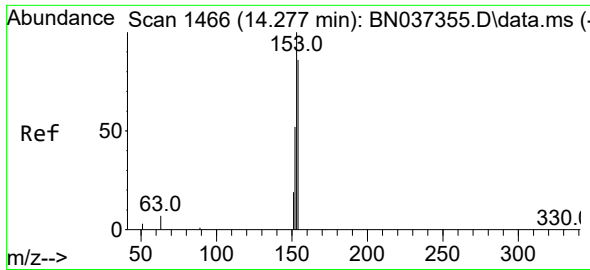
Ion Ratio Lower Upper

152 100

151 19.8 16.6 24.8

153 13.1 10.2 15.2

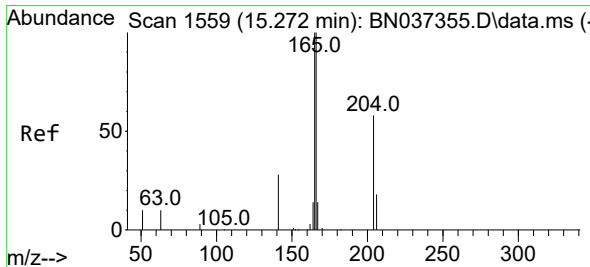
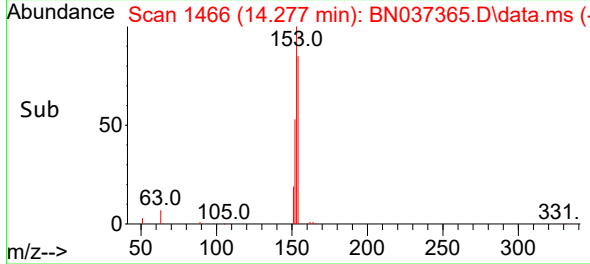
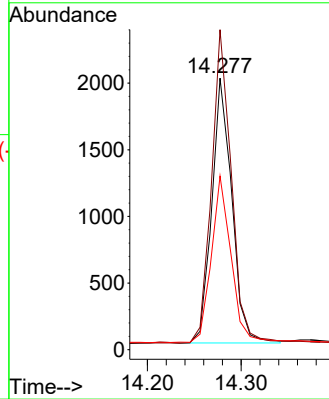
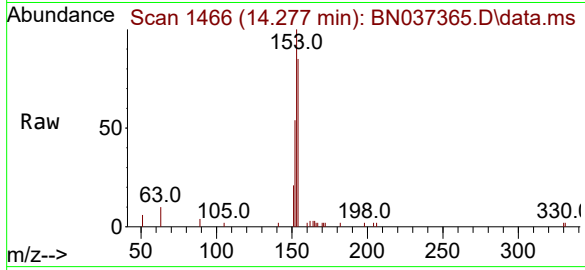




#17
Acenaphthene
Concen: 0.383 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

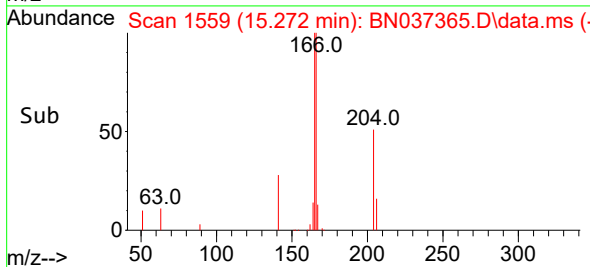
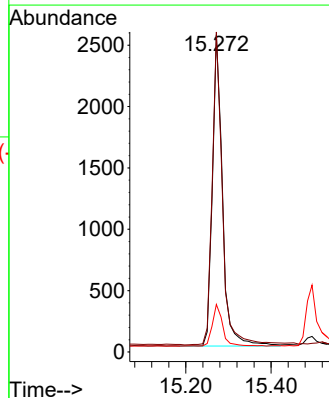
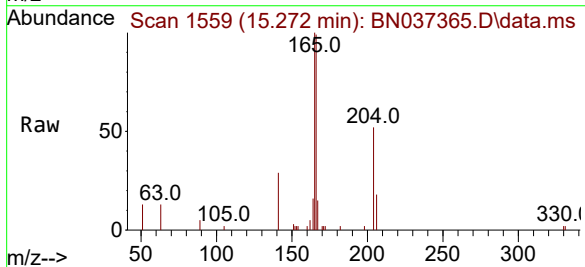
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

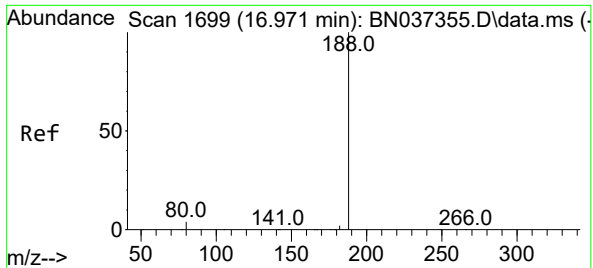
Tgt Ion:	154	Resp:	2949
Ion Ratio	Lower	Upper	
154	100		
153	118.3	93.1	139.7
152	63.2	48.6	73.0



#18
Fluorene
Concen: 0.385 ng
RT: 15.272 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:	166	Resp:	4167
Ion Ratio	Lower	Upper	
166	100		
165	100.6	79.5	119.3
167	13.8	10.7	16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

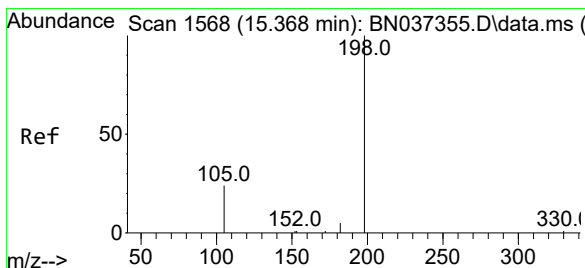
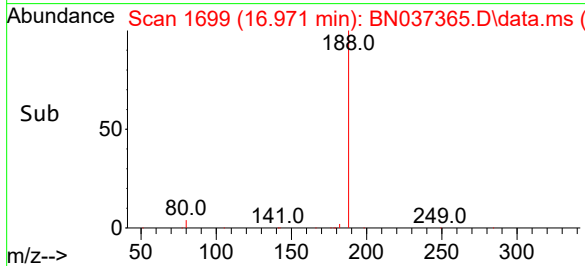
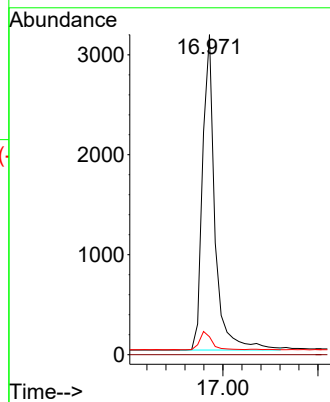
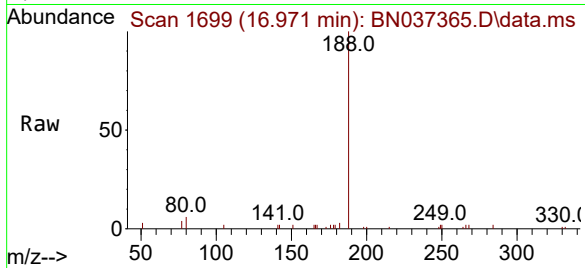
Tgt Ion:188 Resp: 5748

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.6 6.2 9.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.350 ng

RT: 15.379 min Scan# 1569

Delta R.T. 0.011 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

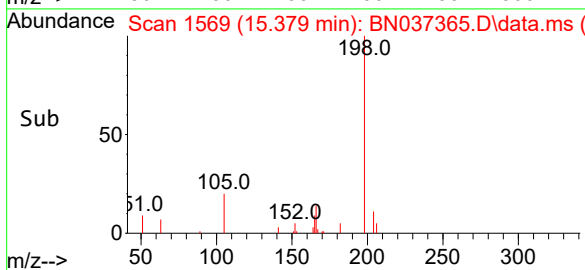
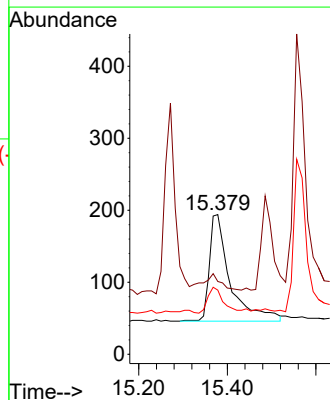
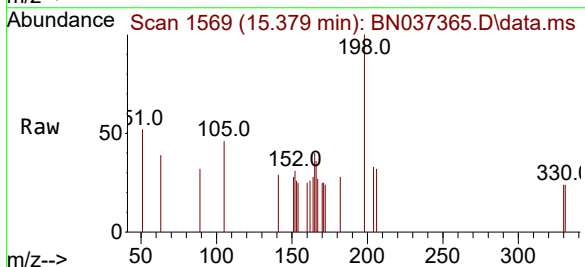
Tgt Ion:198 Resp: 483

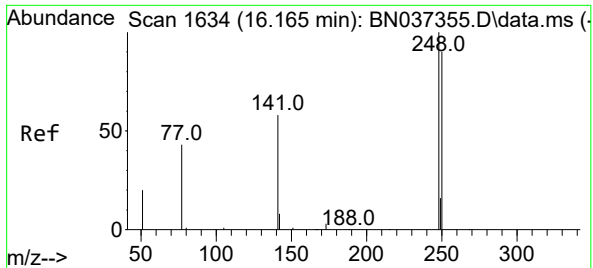
Ion Ratio Lower Upper

198 100

51 52.1 51.4 77.0

105 45.9 45.5 68.3

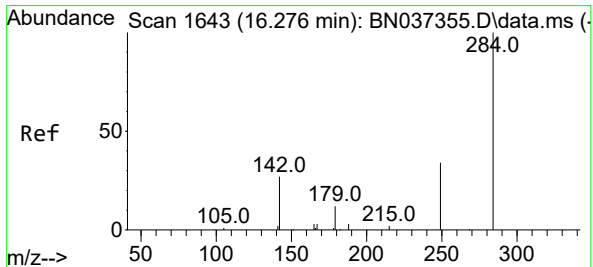
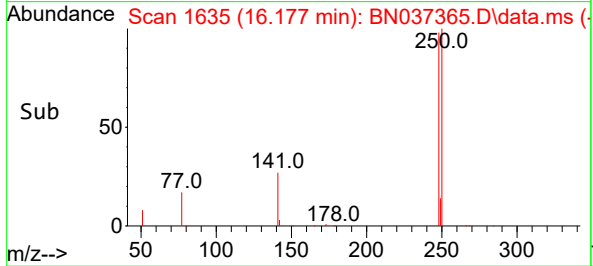
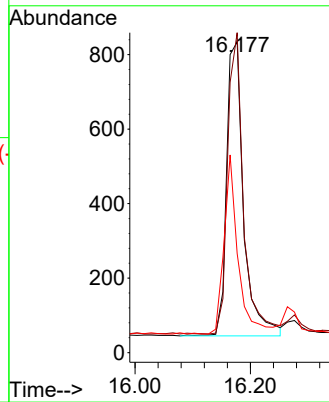
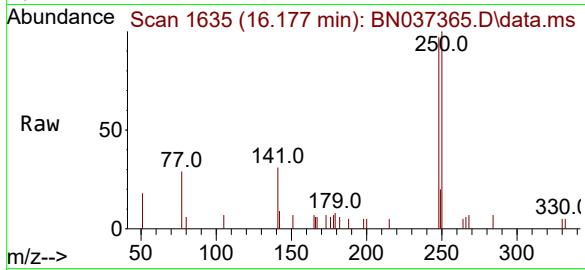




#21
4-Bromophenyl-phenylether
Concen: 0.396 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.012 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

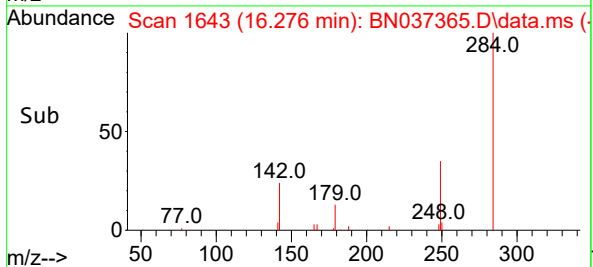
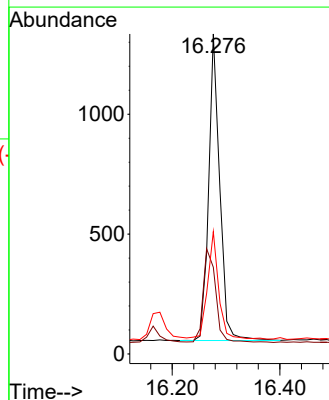
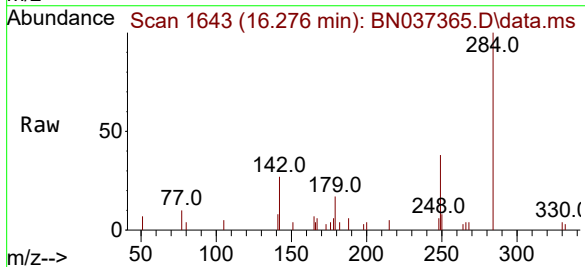
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

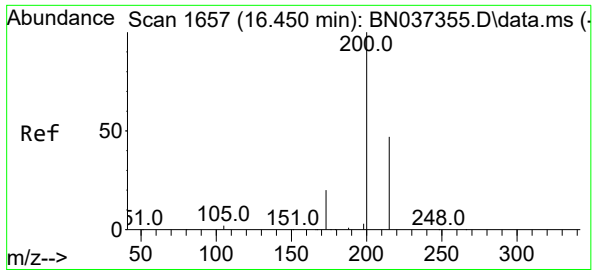
Tgt Ion	Ratio	Lower	Upper
248	100		
250	103.0	80.4	120.6
141	31.9	33.3	49.9



#22
Hexachlorobenzene
Concen: 0.408 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion	Ratio	Lower	Upper
284	100		
142	34.9	27.0	40.6
249	35.5	28.8	43.2

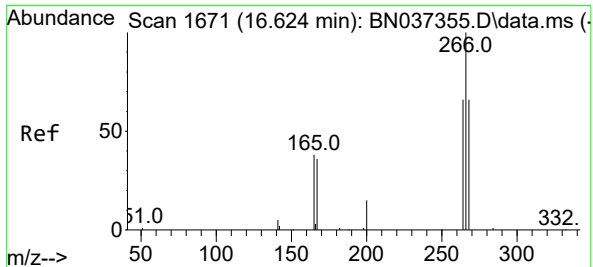
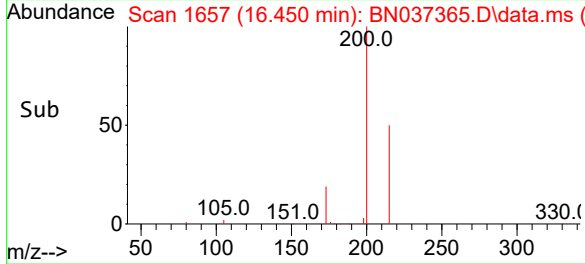
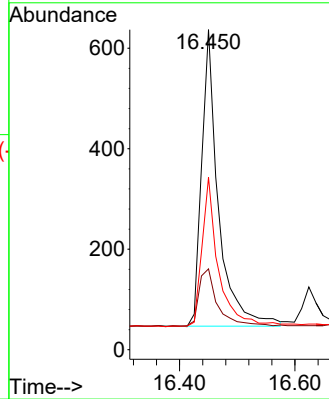
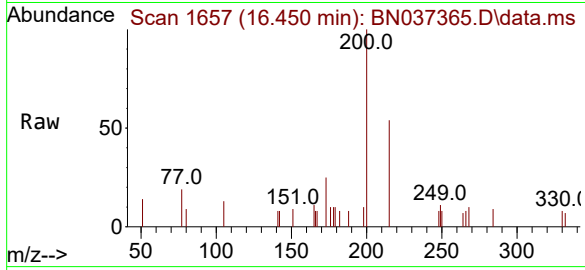




#23
Atrazine
Concen: 0.364 ng
RT: 16.450 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

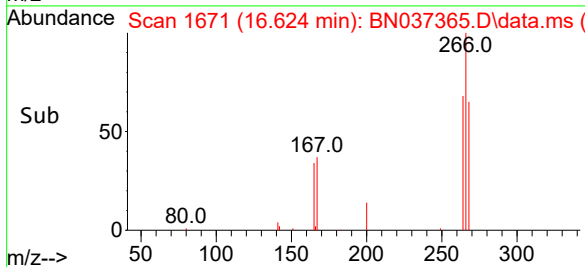
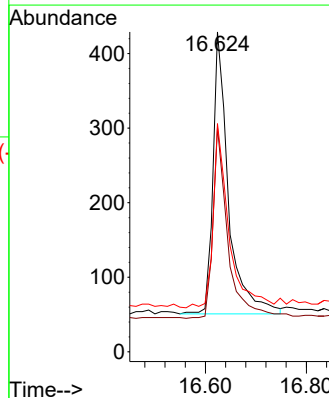
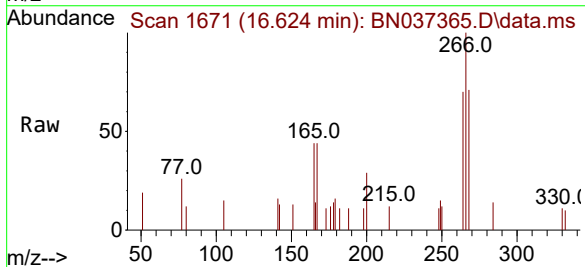
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

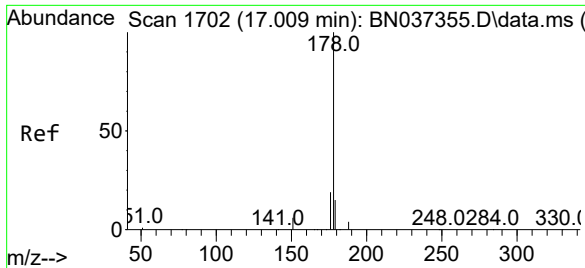
Tgt Ion:200 Resp: 1187
Ion Ratio Lower Upper
200 100
173 25.3 29.2 43.8#
215 53.8 48.8 73.2



#24
Pentachlorophenol
Concen: 0.363 ng
RT: 16.624 min Scan# 1671
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:266 Resp: 805
Ion Ratio Lower Upper
266 100
264 65.6 50.3 75.5
268 66.2 55.3 82.9

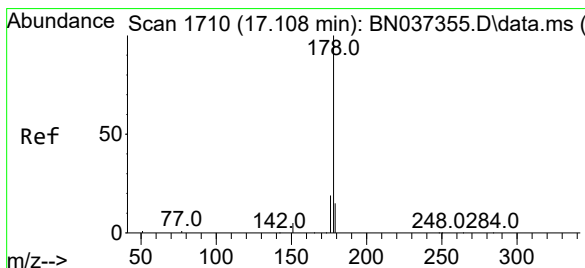
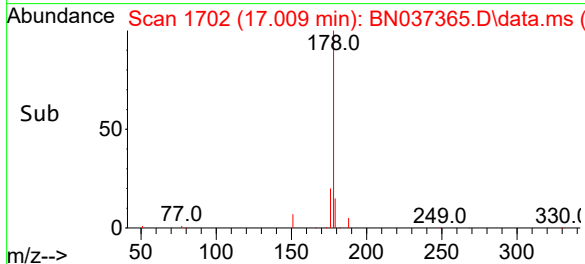
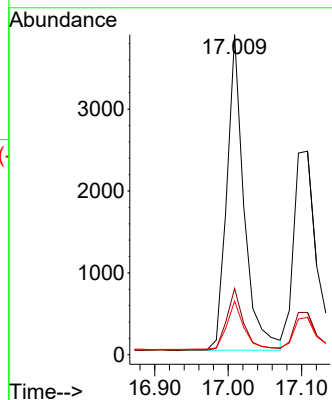
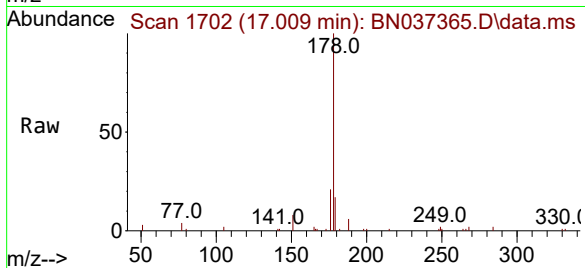




#25
Phenanthrene
Concen: 0.377 ng
RT: 17.009 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

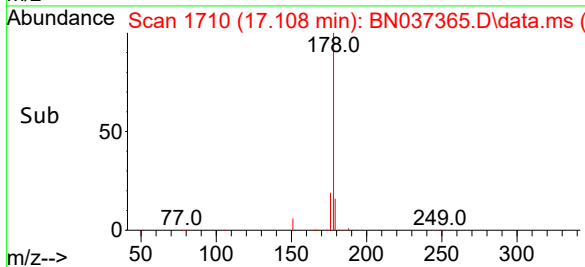
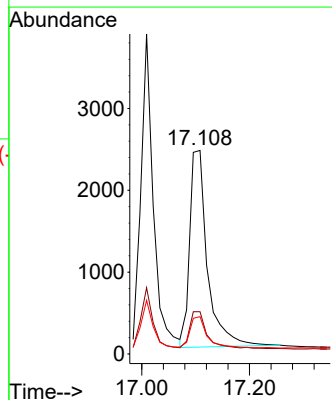
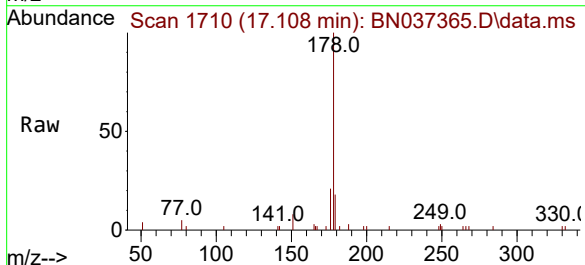
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

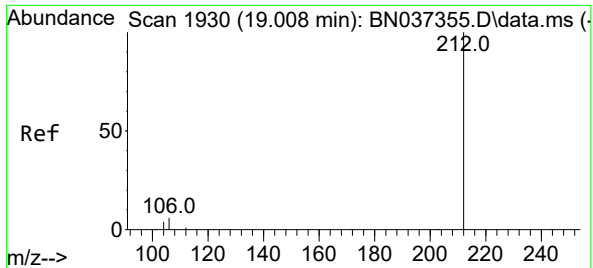
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.2	22.8
179	15.5	12.9	19.3



#26
Anthracene
Concen: 0.360 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.7	22.1
179	16.2	13.0	19.6





#27

Fluoranthene-d10

Concen: 0.414 ng

RT: 19.008 min Scan# 1930

Delta R.T. 0.000 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

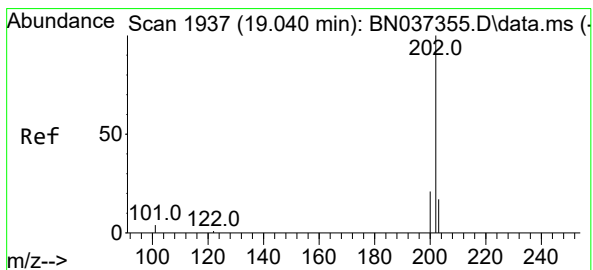
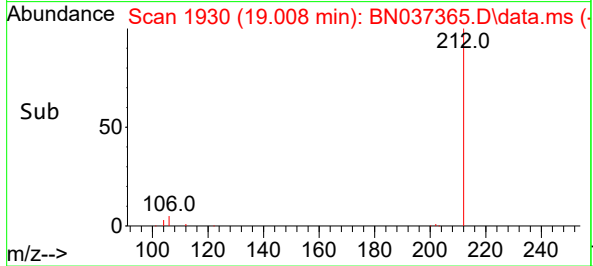
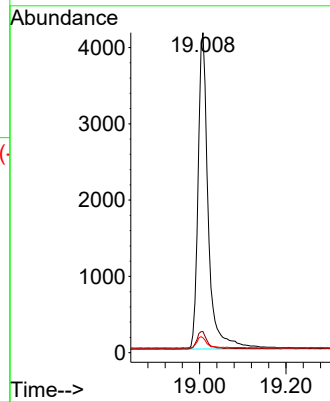
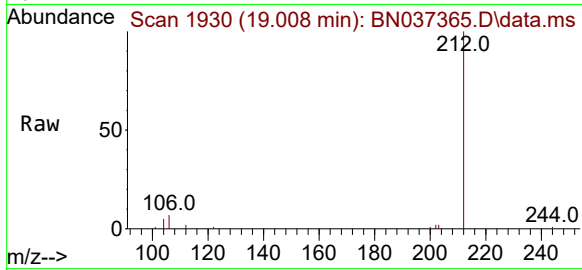
Tgt Ion:212 Resp: 6836

Ion Ratio Lower Upper

212 100

106 5.5 3.0 4.4#

104 3.4 2.0 3.0#



#28

Fluoranthene

Concen: 0.385 ng

RT: 19.036 min Scan# 1936

Delta R.T. -0.005 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

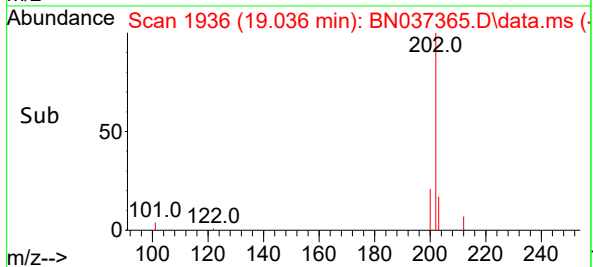
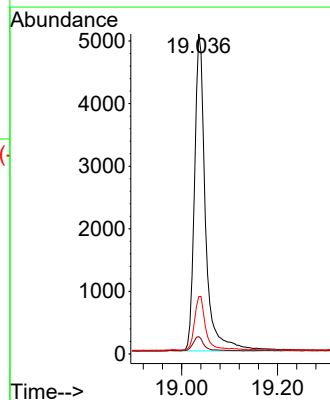
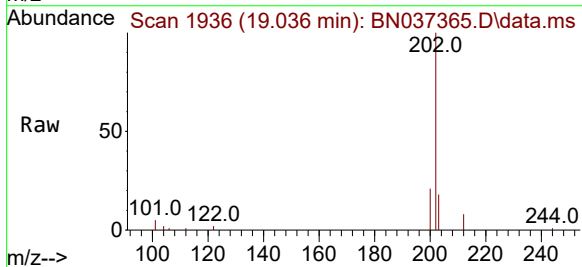
Tgt Ion:202 Resp: 8102

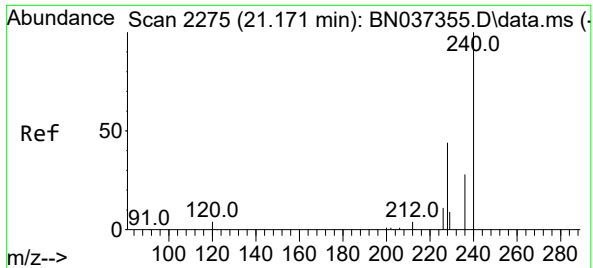
Ion Ratio Lower Upper

202 100

101 4.5 3.0 4.6

203 16.4 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

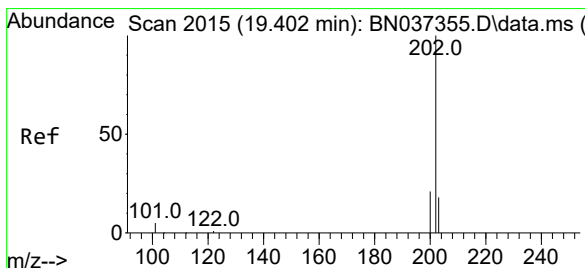
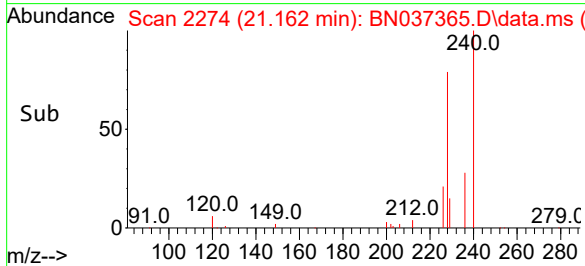
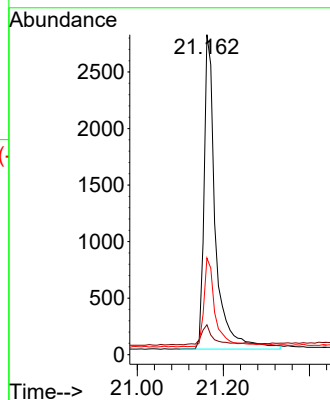
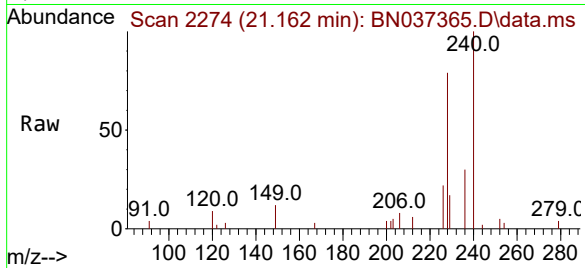
Tgt Ion:240 Resp: 5140

Ion Ratio Lower Upper

240 100

120 9.3 7.5 11.3

236 30.2 24.9 37.3



#30

Pyrene

Concen: 0.388 ng

RT: 19.403 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

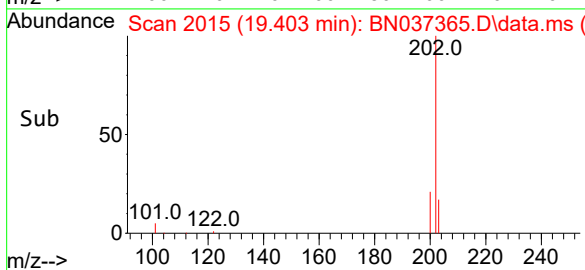
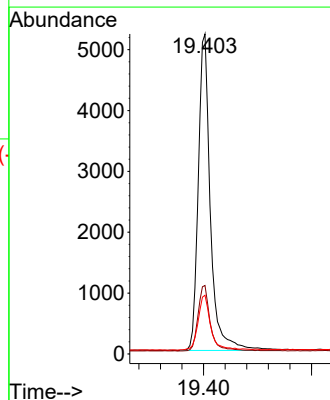
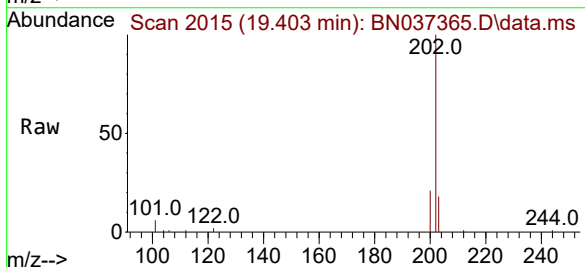
Tgt Ion:202 Resp: 8105

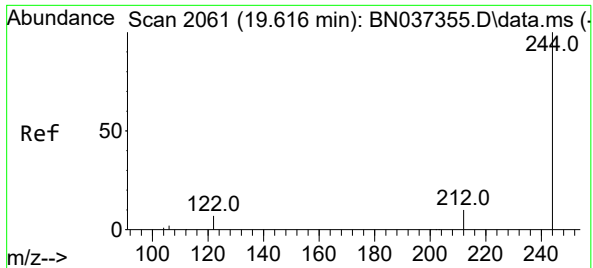
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 17.7 14.5 21.7

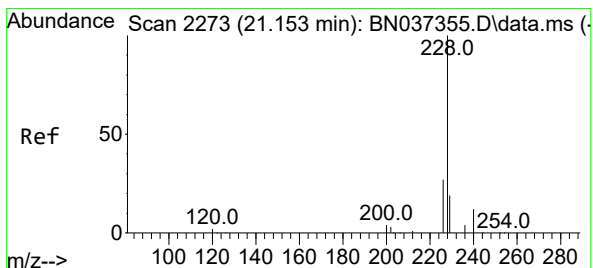
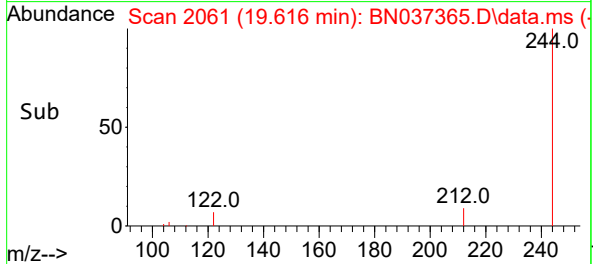
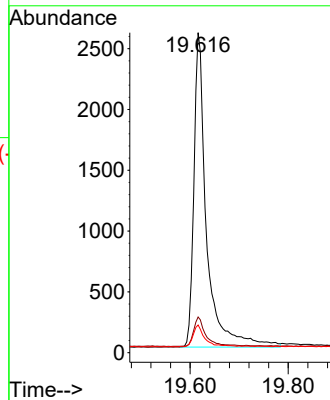
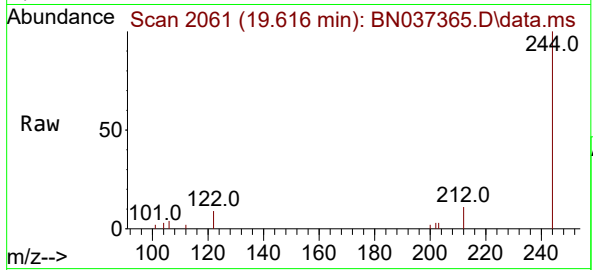




#31
Terphenyl-d14
Concen: 0.396 ng
RT: 19.616 min Scan# 2061
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

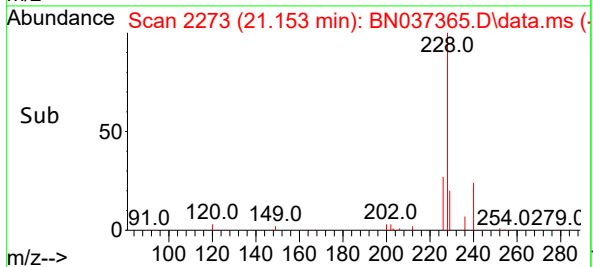
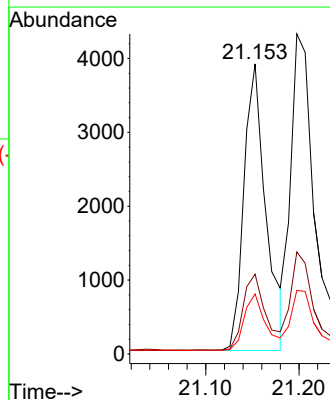
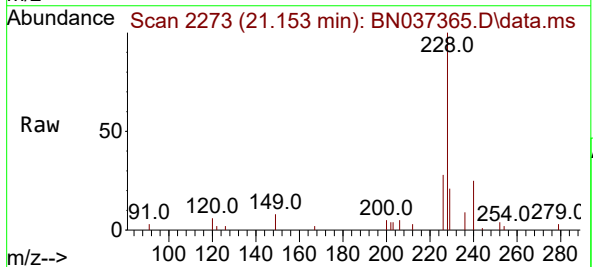
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

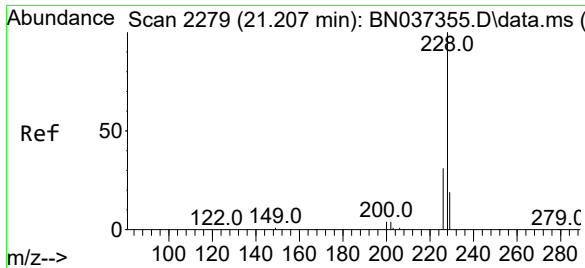
Tgt Ion:244 Resp: 4639
Ion Ratio Lower Upper
244 100
212 11.1 11.1 16.7
122 8.6 7.2 10.8



#32
Benzo(a)anthracene
Concen: 0.376 ng
RT: 21.153 min Scan# 2273
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:228 Resp: 6359
Ion Ratio Lower Upper
228 100
226 27.5 23.0 34.4
229 20.7 17.4 26.0





#33

Chrysene

Concen: 0.391 ng

RT: 21.198 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

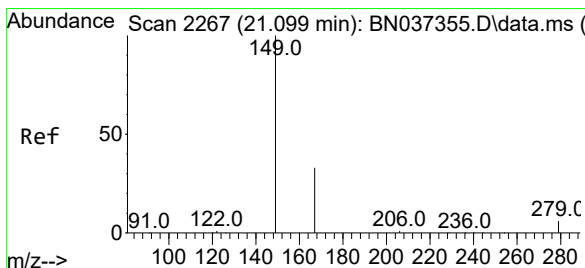
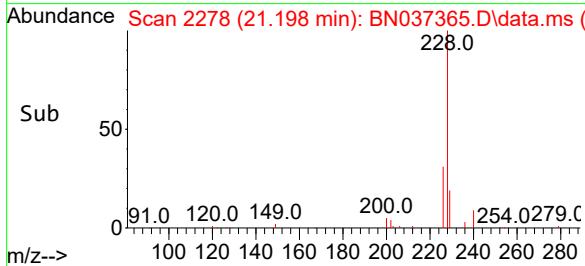
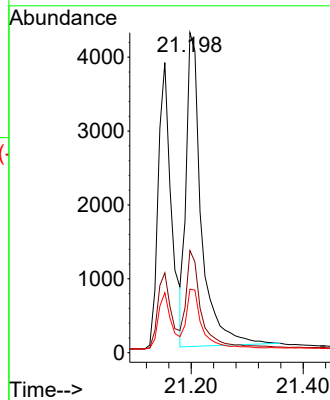
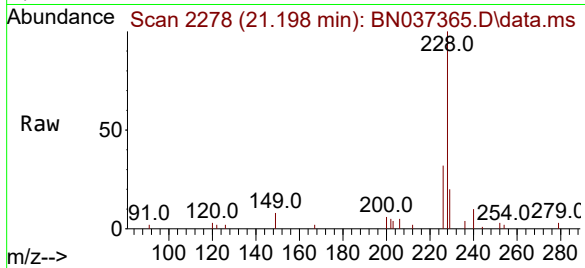
Tgt Ion:228 Resp: 8015

Ion Ratio Lower Upper

228 100

226 31.9 25.4 38.2

229 19.9 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.385 ng

RT: 21.090 min Scan# 2266

Delta R.T. -0.009 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

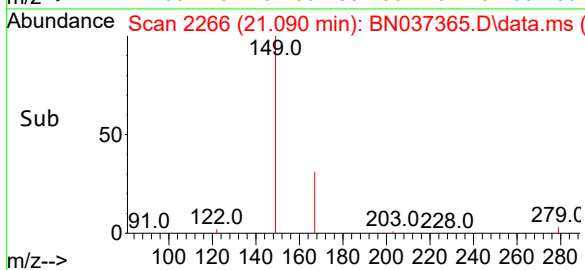
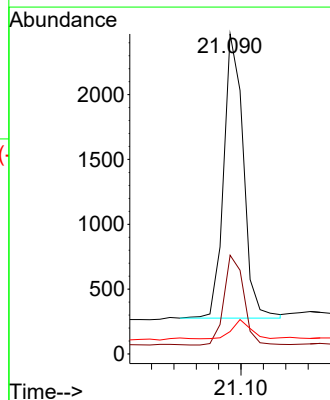
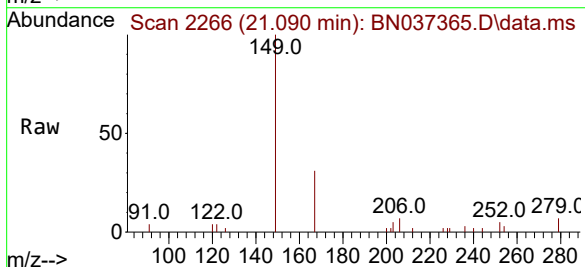
Tgt Ion:149 Resp: 2672

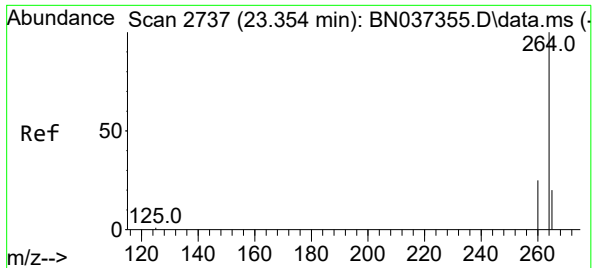
Ion Ratio Lower Upper

149 100

167 31.7 24.6 37.0

279 6.5 6.5 9.7#

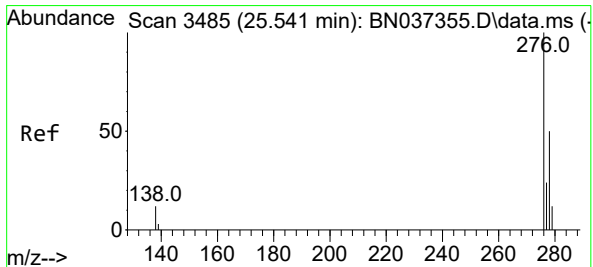
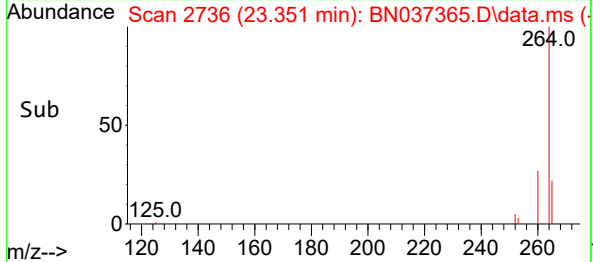
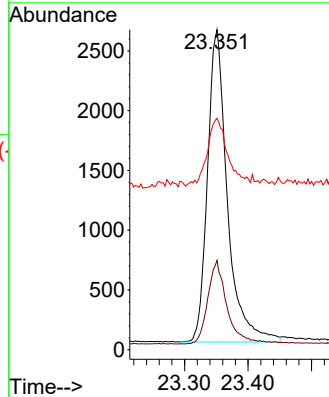
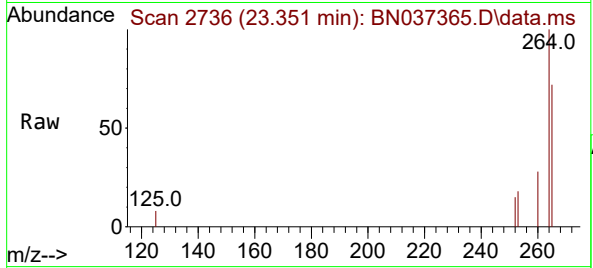




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.351 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

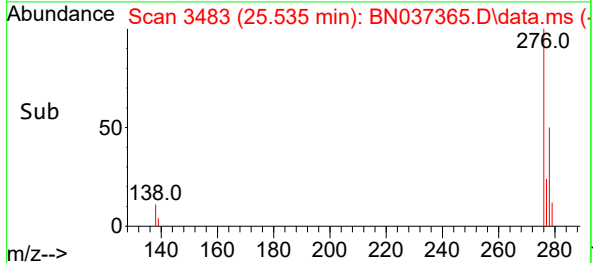
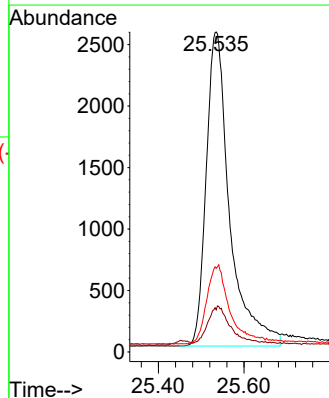
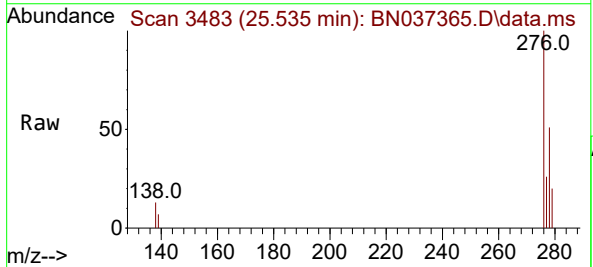
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

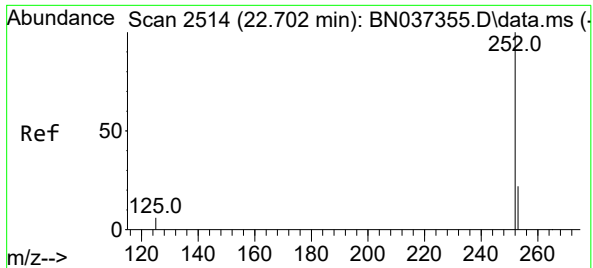
Tgt Ion:264 Resp: 5682
Ion Ratio Lower Upper
264 100
260 27.9 21.4 32.2
265 72.3 71.4 107.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.382 ng
RT: 25.535 min Scan# 3483
Delta R.T. -0.006 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:276 Resp: 9725
Ion Ratio Lower Upper
276 100
138 11.2 2.2 3.2#
277 24.1 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 0.363 ng m

RT: 22.696 min Scan# 2512

Delta R.T. -0.006 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

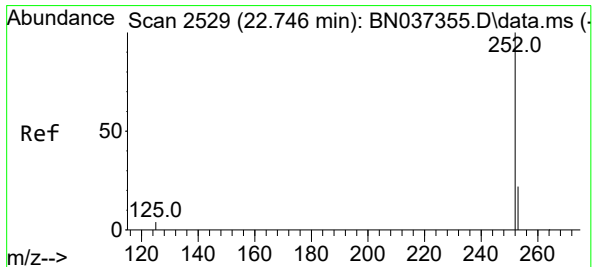
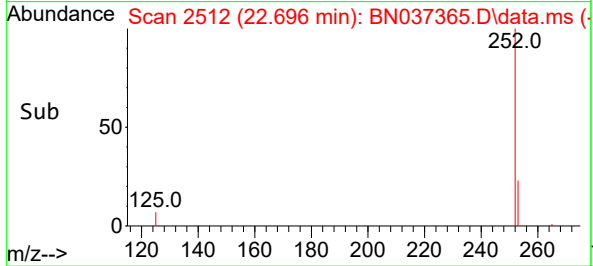
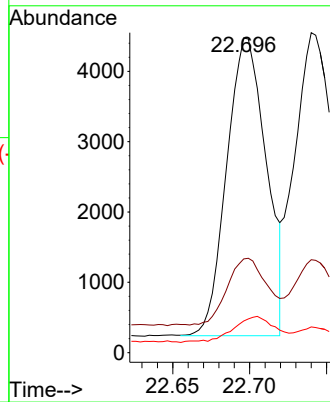
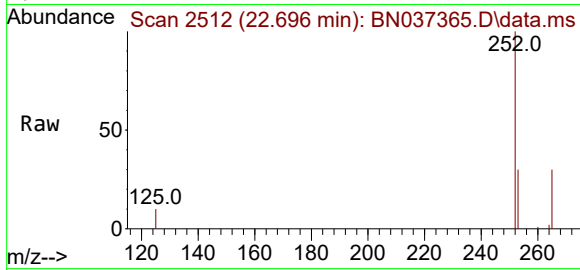
Tgt Ion:252 Resp: 7592

Ion Ratio Lower Upper

252 100

253 29.8 26.6 40.0

125 10.0 6.1 9.1#



#38

Benzo(k)fluoranthene

Concen: 0.398 ng

RT: 22.740 min Scan# 2527

Delta R.T. -0.006 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

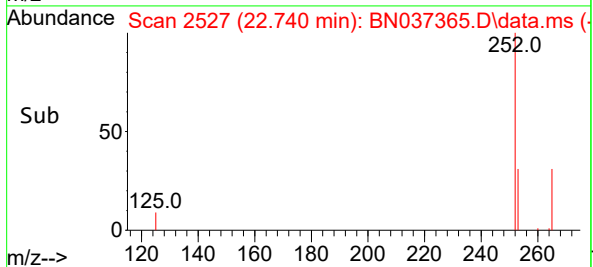
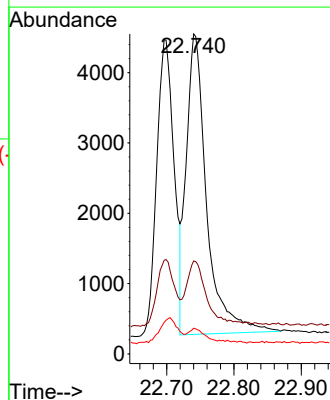
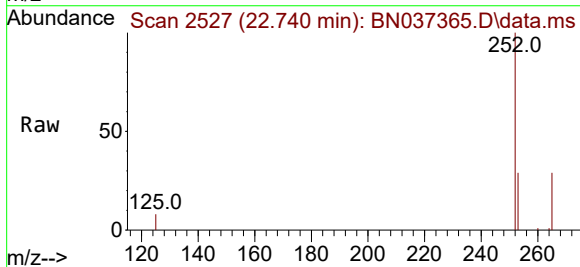
Tgt Ion:252 Resp: 9018

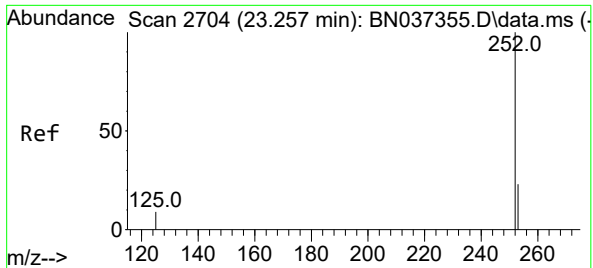
Ion Ratio Lower Upper

252 100

253 29.0 26.7 40.1

125 8.1 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.380 ng

RT: 23.255 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

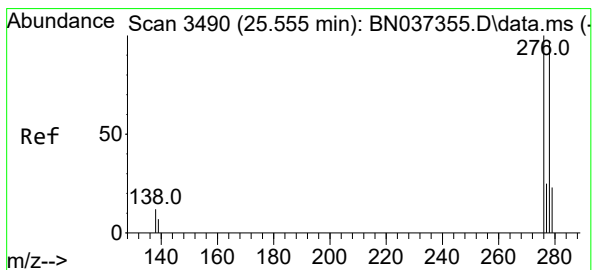
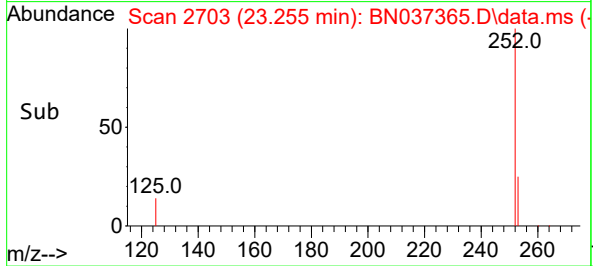
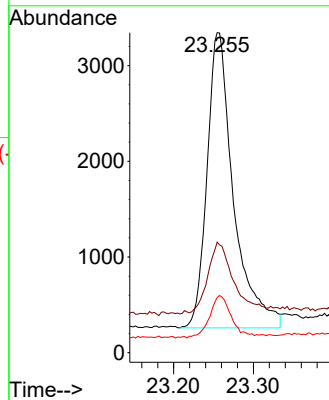
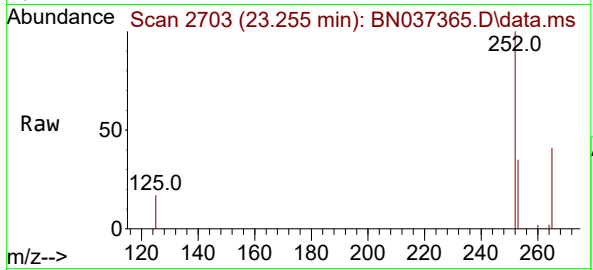
Tgt Ion:252 Resp: 7122

Ion Ratio Lower Upper

252 100

253 34.6 31.6 47.4

125 17.3 8.4 12.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.388 ng

RT: 25.553 min Scan# 3489

Delta R.T. -0.003 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

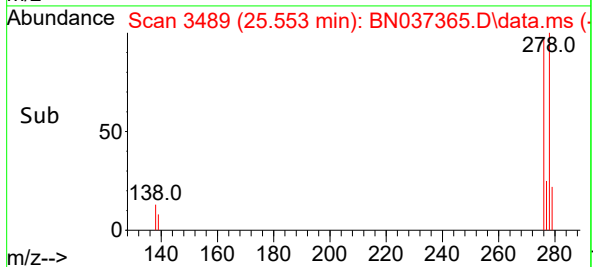
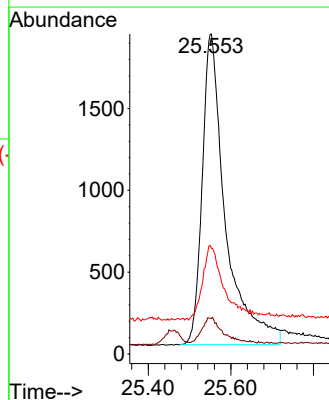
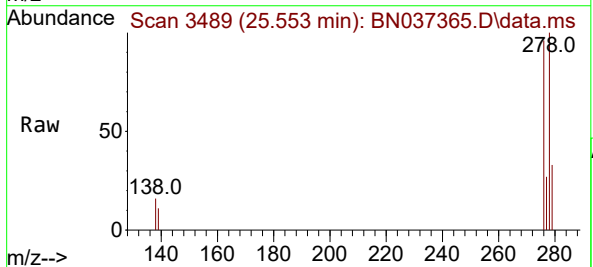
Tgt Ion:278 Resp: 7424

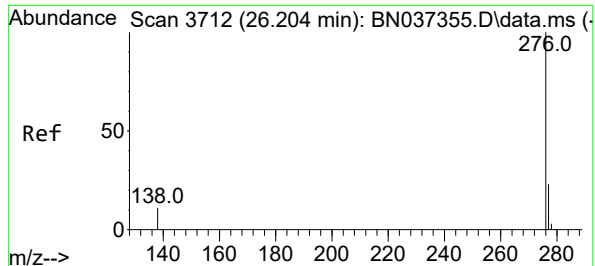
Ion Ratio Lower Upper

278 100

139 11.0 10.2 15.4

279 33.0 35.6 53.4#





#41

Benzo(g,h,i)perylene

Concen: 0.389 ng

RT: 26.199 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037365.D

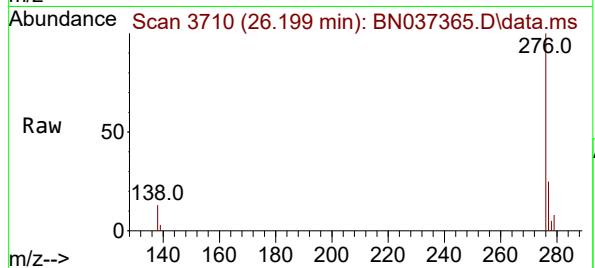
Acq: 21 Jun 2025 01:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



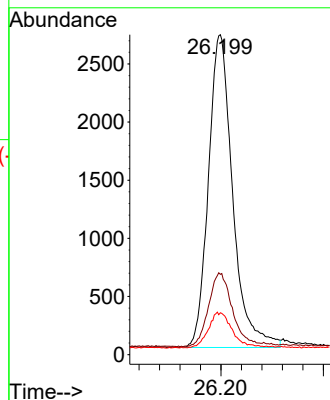
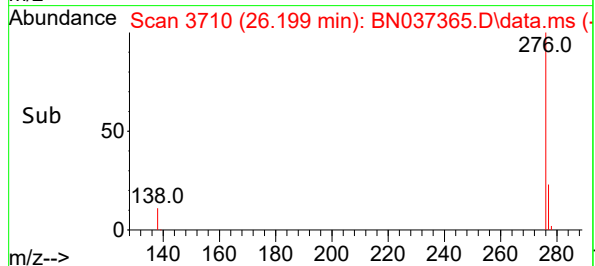
Tgt Ion:276 Resp: 8859

Ion Ratio Lower Upper

276 100

277 25.1 22.7 34.1

138 13.1 9.4 14.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037365.D
Acq On : 21 Jun 2025 01:17
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 21 01:41:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 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	99	0.00
2	1,4-Dioxane	0.407	0.399	2.0	101	0.00
3	n-Nitrosodimethylamine	0.373	0.370	0.8	93	0.00
4 S	2-Fluorophenol	0.799	0.740	7.4	98	0.00
5 S	Phenol-d6	0.823	0.753	8.5	97	0.00
6	bis(2-Chloroethyl)ether	0.730	0.673	7.8	94	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	100	0.00
8 S	Nitrobenzene-d5	0.323	0.318	1.5	100	0.00
9	Naphthalene	1.056	1.038	1.7	99	0.00
10	Hexachlorobutadiene	0.417	0.452	-8.4	102	0.00
11 SURR	2-Methylnaphthalene-d10	0.648	0.670	-3.4	100	0.00
12	2-Methylnaphthalene	0.736	0.709	3.7	99	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	99	0.00
14 S	2,4,6-Tribromophenol	0.235	0.218	7.2	94	0.00
15 S	2-Fluorobiphenyl	1.757	1.777	-1.1	99	0.00
16	Acenaphthylene	1.682	1.615	4.0	100	0.00
17	Acenaphthene	1.107	1.059	4.3	99	0.00
18	Fluorene	1.556	1.496	3.9	98	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	100	0.00
20	4,6-Dinitro-2-methylphenol	0.096	0.084	12.5	105	0.01
21	4-Bromophenyl-phenylether	0.285	0.282	1.1	101	0.01
22	Hexachlorobenzene	0.310	0.316	-1.9	100	0.00
23	Atrazine	0.227	0.207	8.8	94	0.00
24	Pentachlorophenol	0.154	0.140	9.1	102	0.00
25	Phenanthrene	1.158	1.093	5.6	99	0.00
26	Anthracene	1.068	0.961	10.0	97	0.00
27 SURR	Fluoranthene-d10	1.148	1.189	-3.6	102	0.00
28	Fluoranthene	1.464	1.410	3.7	103	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	107	0.00
30	Pyrene	1.625	1.577	3.0	101	0.00
31 S	Terphenyl-d14	0.912	0.903	1.0	104	0.00
32	Benzo(a)anthracene	1.315	1.237	5.9	109	0.00
33	Chrysene	1.594	1.559	2.2	103	0.00
34	Bis(2-ethylhexyl)phthalate	0.540	0.520	3.7	103	0.00
35 I	Perylene-d12	1.000	1.000	0.0	115	0.00
36	Indeno(1,2,3-cd)pyrene	1.794	1.712	4.6	116	0.00
37	Benzo(b)fluoranthene	1.472	1.336	9.2	106	0.00
38	Benzo(k)fluoranthene	1.597	1.587	0.6	116	0.00
39 C	Benzo(a)pyrene	1.319	1.253	5.0	113	0.00
40	Dibenzo(a,h)anthracene	1.348	1.307	3.0	122	0.00
41	Benzo(g,h,i)perylene	1.603	1.559	2.7	113	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037365.D
Acq On : 21 Jun 2025 01:17
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 21 01:41:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 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	99	0.00
2	1,4-Dioxane	0.400	0.392	2.0	101	0.00
3	n-Nitrosodimethylamine	0.400	0.397	0.8	93	0.00
4 S	2-Fluorophenol	0.400	0.370	7.5	98	0.00
5 S	Phenol-d6	0.400	0.366	8.5	97	0.00
6	bis(2-Chloroethyl)ether	0.400	0.368	8.0	94	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	100	0.00
8 S	Nitrobenzene-d5	0.400	0.394	1.5	100	0.00
9	Naphthalene	0.400	0.393	1.8	99	0.00
10	Hexachlorobutadiene	0.400	0.434	-8.5	102	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.413	-3.2	100	0.00
12	2-Methylnaphthalene	0.400	0.385	3.8	99	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	99	0.00
14 S	2,4,6-Tribromophenol	0.400	0.372	7.0	94	0.00
15 S	2-Fluorobiphenyl	0.400	0.405	-1.3	99	0.00
16	Acenaphthylene	0.400	0.384	4.0	100	0.00
17	Acenaphthene	0.400	0.383	4.3	99	0.00
18	Fluorene	0.400	0.385	3.8	98	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	100	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.350	12.5	105	0.01
21	4-Bromophenyl-phenylether	0.400	0.396	1.0	101	0.01
22	Hexachlorobenzene	0.400	0.408	-2.0	100	0.00
23	Atrazine	0.400	0.364	9.0	94	0.00
24	Pentachlorophenol	0.400	0.363	9.3	102	0.00
25	Phenanthrene	0.400	0.377	5.8	99	0.00
26	Anthracene	0.400	0.360	10.0	97	0.00
27 SURR	Fluoranthene-d10	0.400	0.414	-3.5	102	0.00
28	Fluoranthene	0.400	0.385	3.8	103	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	107	0.00
30	Pyrene	0.400	0.388	3.0	101	0.00
31 S	Terphenyl-d14	0.400	0.396	1.0	104	0.00
32	Benzo(a)anthracene	0.400	0.376	6.0	109	0.00
33	Chrysene	0.400	0.391	2.3	103	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.385	3.8	103	0.00
35 I	Perylene-d12	0.400	0.400	0.0	115	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.382	4.5	116	0.00
37	Benzo(b)fluoranthene	0.400	0.363	9.3	106	0.00
38	Benzo(k)fluoranthene	0.400	0.398	0.5	116	0.00
39 C	Benzo(a)pyrene	0.400	0.380	5.0	113	0.00
40	Dibenzo(a,h)anthracene	0.400	0.388	3.0	122	0.00
41	Benzo(g,h,i)perylene	0.400	0.389	2.8	113	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2345 SAS No.: Q2345 SDG No.: Q2345

Instrument ID: BNA_N Calibration Date/Time: 06/26/2025 19:42

Lab File ID: BN037401.D Init. Calib. Date(s): 06/26/2025 06/26/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 10:41 14:17

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.619	0.588		-5.0	50.0
Fluoranthene-d10	1.146	1.129		-1.5	50.0
2-Fluorophenol	0.771	0.791		2.6	50.0
Phenol-d6	0.799	0.773		-3.3	50.0
Nitrobenzene-d5	0.321	0.299		-6.9	50.0
2-Fluorobiphenyl	1.727	1.679		-2.8	50.0
2,4,6-Tribromophenol	0.235	0.263		11.9	50.0
Terphenyl-d14	0.853	0.857		0.5	50.0
1,4-Dioxane	0.379	0.416		9.8	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
 Data File : BN037401.D
 Acq On : 26 Jun 2025 19:42
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

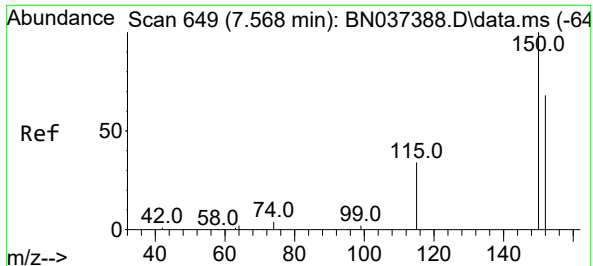
Quant Time: Jun 27 03:00:05 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 16:06:33 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.560	152	1482	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	3137	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	2167	0.400	ng	0.00
19) Phenanthrene-d10	16.959	188	4846	0.400	ng	0.00
29) Chrysene-d12	21.162	240	4925	0.400	ng	0.00
35) Perylene-d12	23.345	264	5418	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	1173	0.411	ng	0.00
5) Phenol-d6	6.744	99	1146	0.387	ng	0.00
8) Nitrobenzene-d5	8.717	82	937	0.373	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	1846	0.380	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	570	0.448	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	3639	0.389	ng	0.00
27) Fluoranthene-d10	19.003	212	5473	0.394	ng	0.00
31) Terphenyl-d14	19.611	244	4221	0.402	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.097	88	617	0.439	ng	95
3) n-Nitrosodimethylamine	3.415	42	550	0.396	ng	# 95
6) bis(2-Chloroethyl)ether	6.997	93	858	0.326	ng	# 88
9) Naphthalene	10.383	128	3170	0.393	ng	99
10) Hexachlorobutadiene	10.682	225	1361	0.425	ng	# 99
12) 2-Methylnaphthalene	12.016	142	2126	0.382	ng	97
16) Acenaphthylene	13.924	152	3402	0.379	ng	99
17) Acenaphthene	14.277	154	2265	0.386	ng	100
18) Fluorene	15.271	166	3246	0.392	ng	100
20) 4,6-Dinitro-2-methylph...	15.368	198	490	0.394	ng	98
21) 4-Bromophenyl-phenylether	16.165	248	1314	0.384	ng	99
22) Hexachlorobenzene	16.276	284	1458	0.397	ng	98
23) Atrazine	16.450	200	1088	0.402	ng	95
24) Pentachlorophenol	16.624	266	769	0.387	ng	97
25) Phenanthrene	17.009	178	5123	0.375	ng	99
26) Anthracene	17.095	178	4568	0.364	ng	99
28) Fluoranthene	19.031	202	7076	0.406	ng	100
30) Pyrene	19.398	202	7117	0.382	ng	100
32) Benzo(a)anthracene	21.144	228	6231	0.403	ng	100
33) Chrysene	21.198	228	7562	0.395	ng	99
34) Bis(2-ethylhexyl)phtha...	21.090	149	2752	0.449	ng	99
36) Indeno(1,2,3-cd)pyrene	25.526	276	8662	0.379	ng	99
37) Benzo(b)fluoranthene	22.693	252	7207	0.377	ng	97
38) Benzo(k)fluoranthene	22.737	252	7998	0.392	ng	99
39) Benzo(a)pyrene	23.254	252	6367	0.375	ng	# 97
40) Dibenzo(a,h)anthracene	25.547	278	6349	0.362	ng	99
41) Benzo(g,h,i)perylene	26.187	276	8103	0.386	ng	98

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

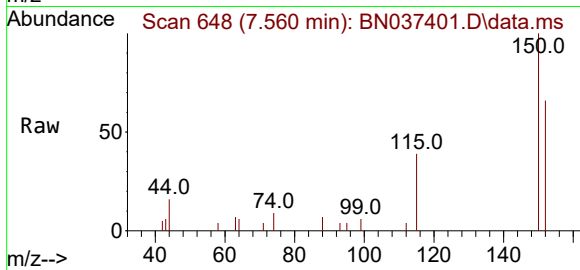
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

- 1
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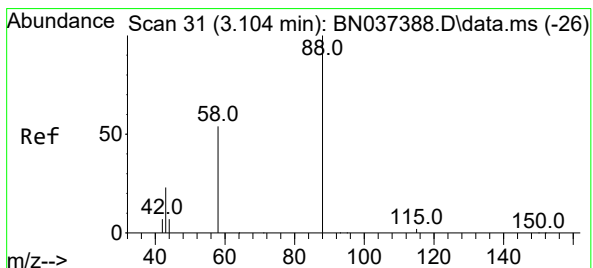
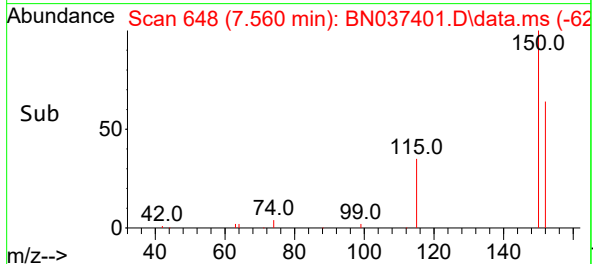
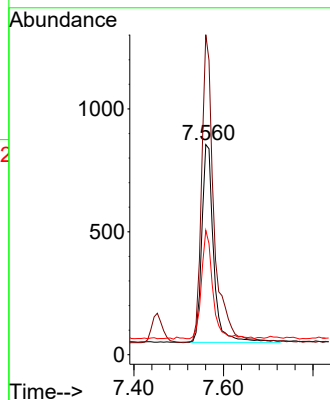


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

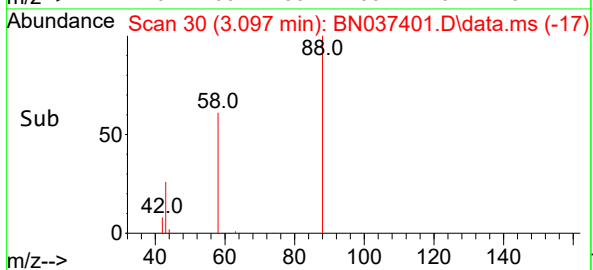
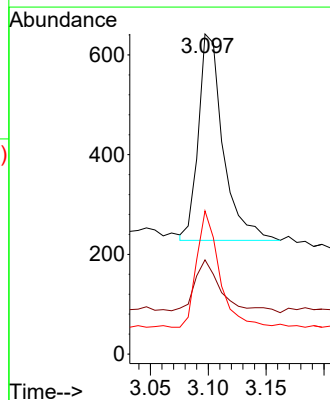
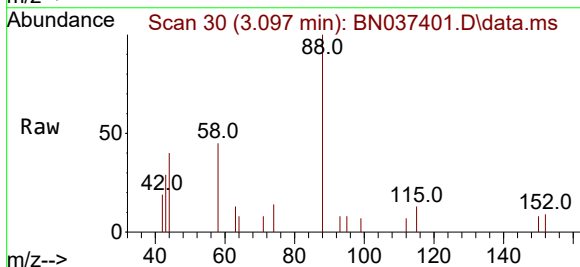


Tgt Ion:152 Resp: 1482
Ion Ratio Lower Upper
152 100
150 152.3 116.2 174.2
115 59.2 42.9 64.3

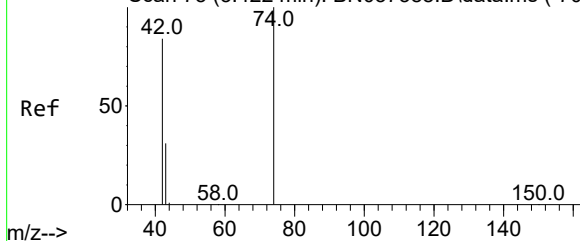


#2
1,4-Dioxane
Concen: 0.439 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

Tgt Ion: 88 Resp: 617
Ion Ratio Lower Upper
88 100
43 27.9 21.6 32.4
58 52.7 45.9 68.9



Abundance Scan 75 (3.422 min): BN037388.D\data.ms (-70)



#3

n-Nitrosodimethylamine

Concen: 0.396 ng

RT: 3.415 min Scan# 74

Delta R.T. -0.007 min

Lab File: BN037401.D

Acq: 26 Jun 2025 19:42

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion: 42 Resp: 550

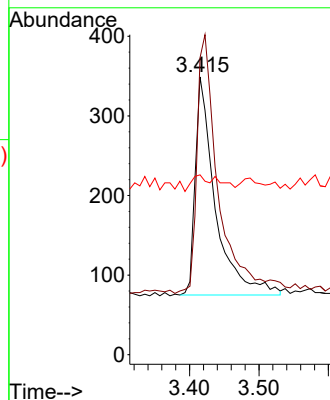
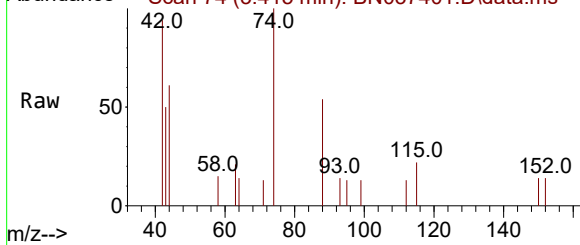
Ion Ratio Lower Upper

42 100

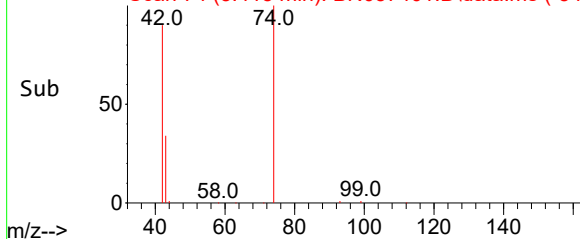
74 127.6 97.8 146.8

44 5.8 8.7 13.1#

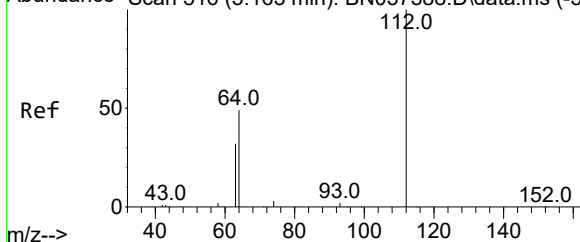
Abundance Scan 74 (3.415 min): BN037401.D\data.ms



Abundance Scan 74 (3.415 min): BN037401.D\data.ms (-54)



Abundance Scan 316 (5.163 min): BN037388.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.411 ng

RT: 5.163 min Scan# 316

Delta R.T. -0.000 min

Lab File: BN037401.D

Acq: 26 Jun 2025 19:42

Tgt Ion: 112 Resp: 1173

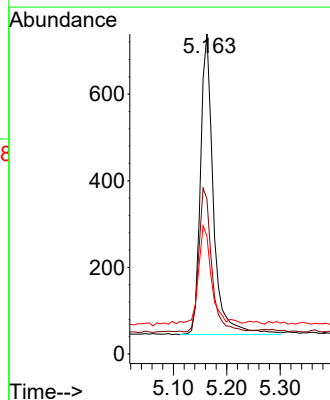
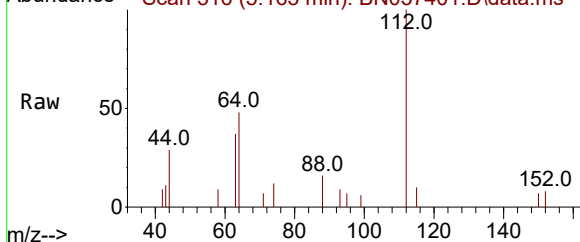
Ion Ratio Lower Upper

112 100

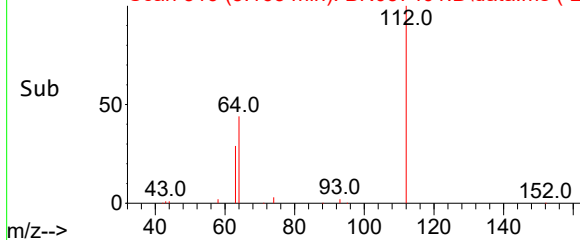
64 47.4 40.3 60.5

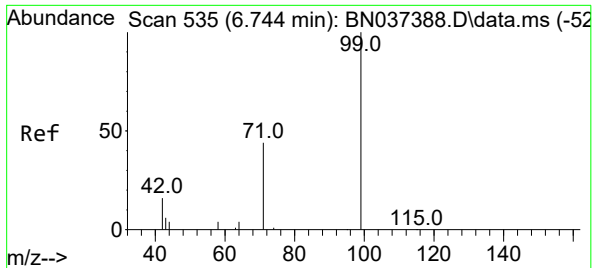
63 36.8 26.1 39.1

Abundance Scan 316 (5.163 min): BN037401.D\data.ms



Abundance Scan 316 (5.163 min): BN037401.D\data.ms (-28)



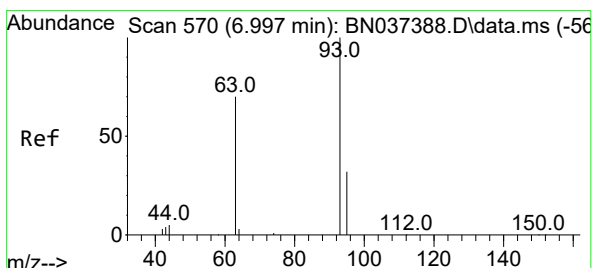
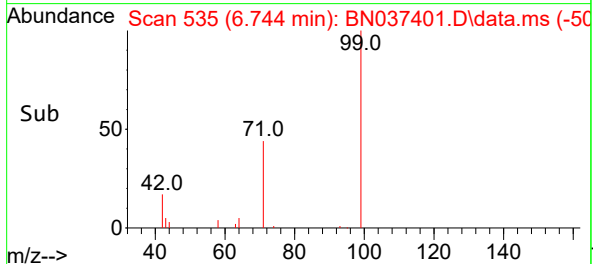
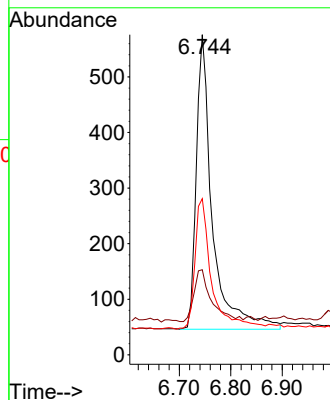
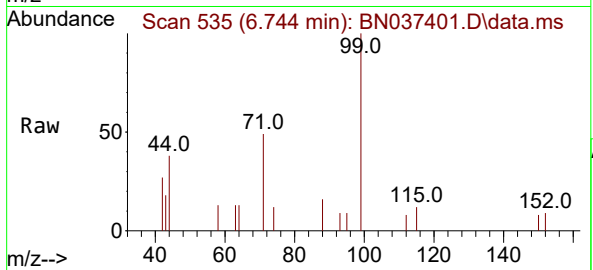


#5
Phenol-d6
Concen: 0.387 ng
RT: 6.744 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Tgt Ion: 99 Resp: 1146

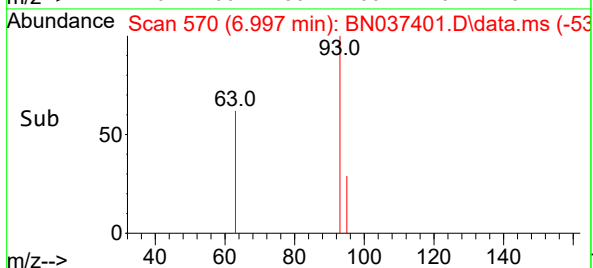
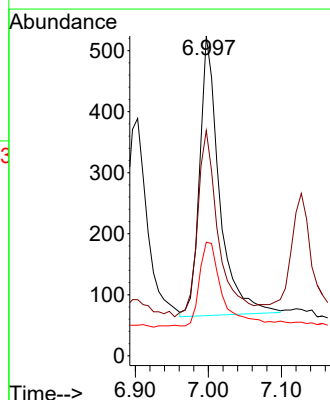
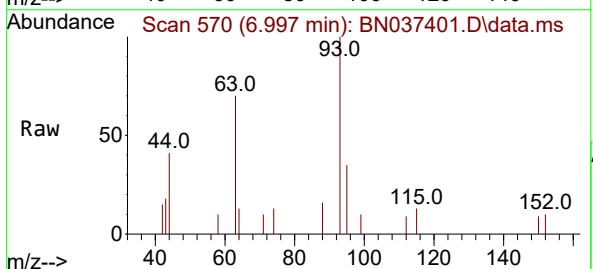
Ion	Ratio	Lower	Upper
99	100		
42	19.2	15.6	23.4
71	46.3	35.8	53.8

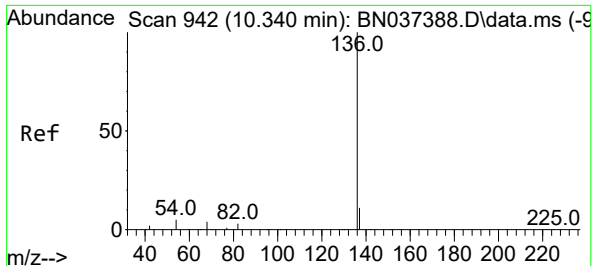


#6
bis(2-Chloroethyl)ether
Concen: 0.326 ng
RT: 6.997 min Scan# 570
Delta R.T. -0.000 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

Tgt Ion: 93 Resp: 858

Ion	Ratio	Lower	Upper
93	100		
63	70.6	49.6	74.4
95	36.8	23.9	35.9

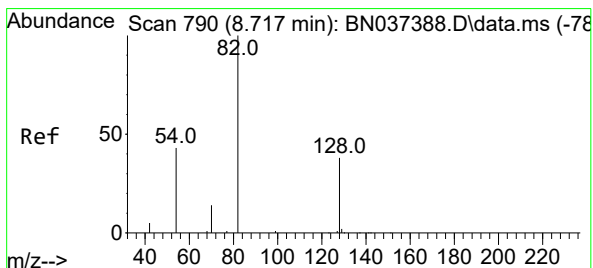
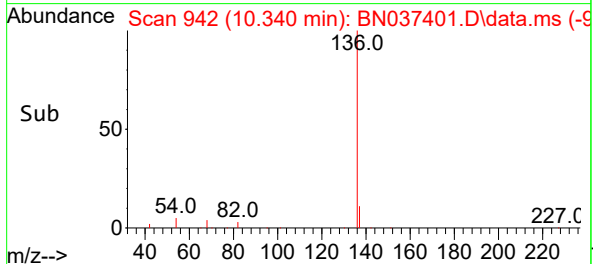
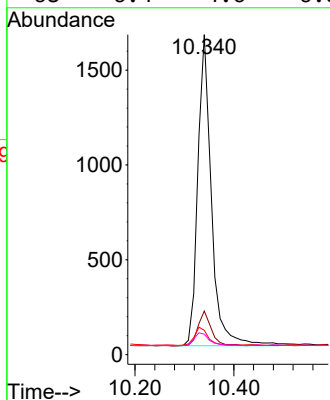
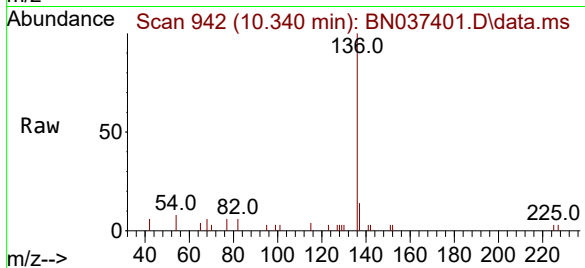




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

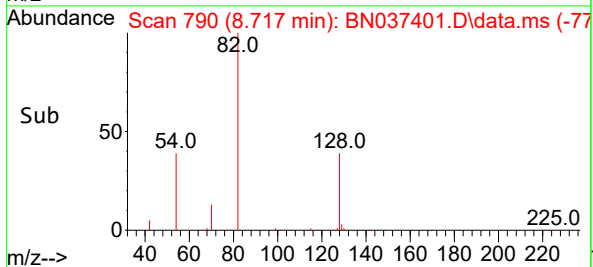
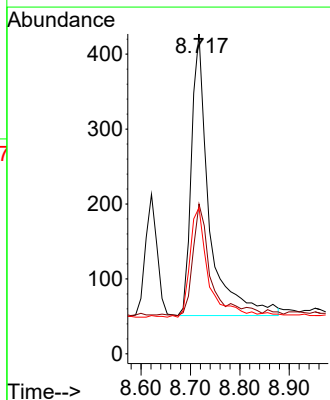
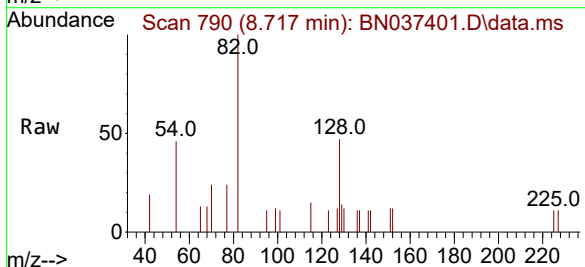
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

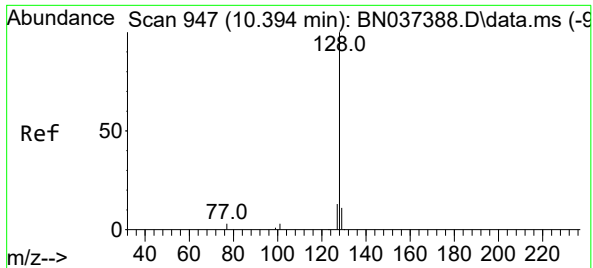
Tgt Ion:	136	Resp:	3137
Ion	Ratio	Lower	Upper
136	100		
137	13.6	10.4	15.6
54	7.6	5.6	8.4
68	6.4	4.6	6.8



#8
Nitrobenzene-d5
Concen: 0.373 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

Tgt Ion:	82	Resp:	937
Ion	Ratio	Lower	Upper
82	100		
128	46.8	34.0	51.0
54	45.7	37.7	56.5

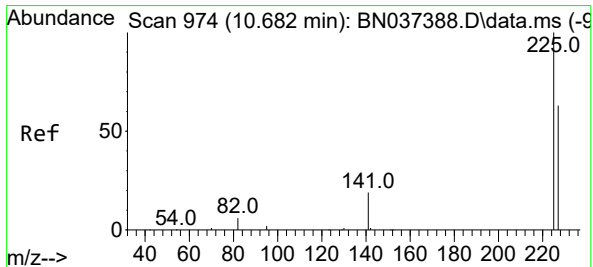
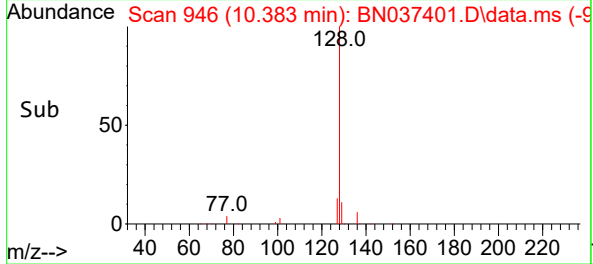
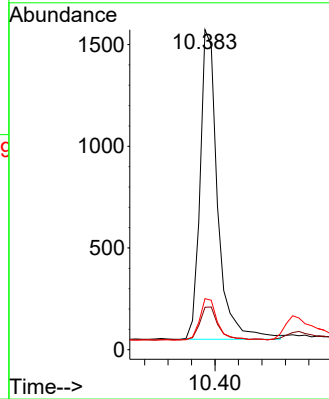
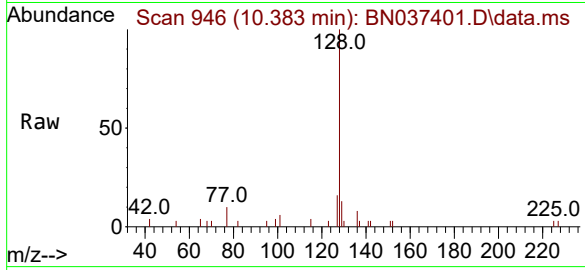




#9
Naphthalene
Concen: 0.393 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.011 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

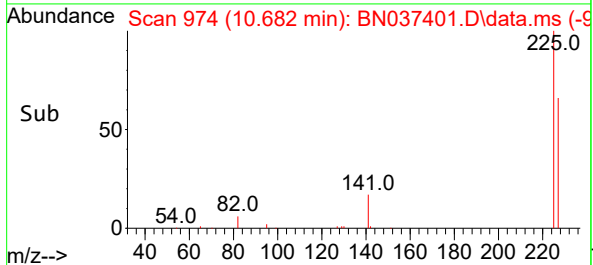
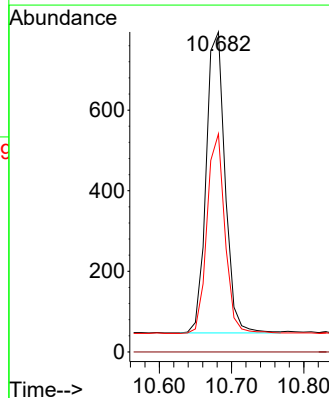
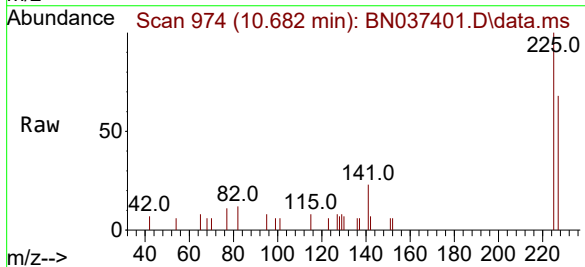
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

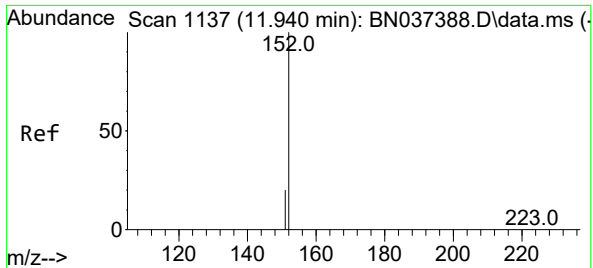
Tgt Ion:128 Resp: 3170
Ion Ratio Lower Upper
128 100
129 13.3 10.4 15.6
127 16.0 12.2 18.4



#10
Hexachlorobutadiene
Concen: 0.425 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

Tgt Ion:225 Resp: 1361
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.9 49.9 74.9

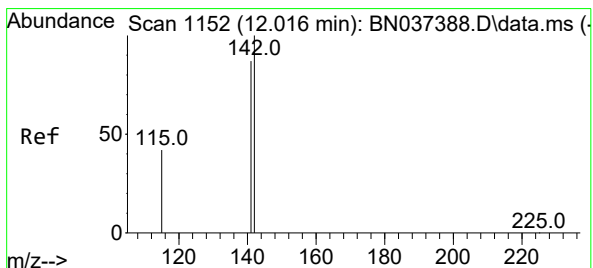
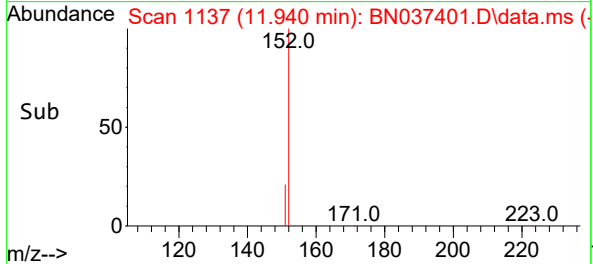
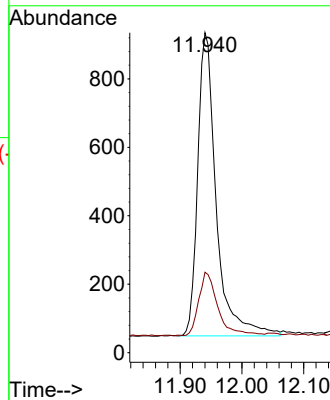
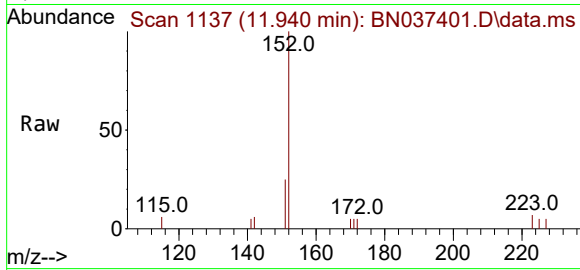




#11
2-Methylnaphthalene-d10
Concen: 0.380 ng
RT: 11.940 min Scan# 1137
Delta R.T. -0.000 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

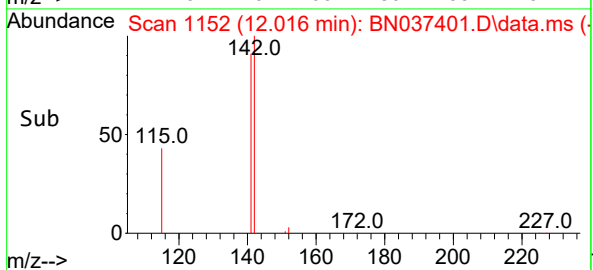
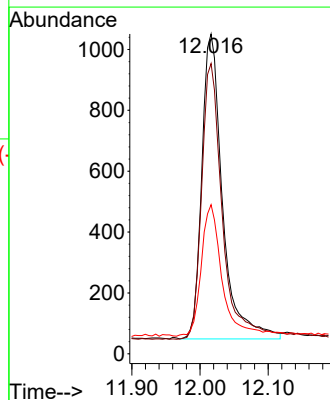
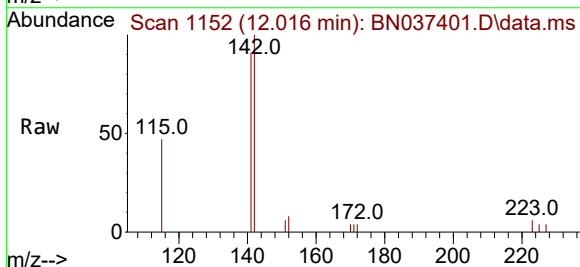
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

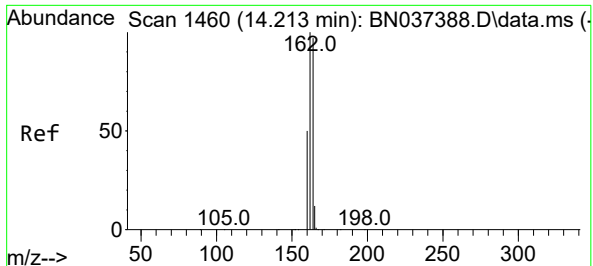
Tgt Ion:152 Resp: 1846
Ion Ratio Lower Upper
152 100
151 22.0 18.4 27.6



#12
2-Methylnaphthalene
Concen: 0.382 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.000 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

Tgt Ion:142 Resp: 2126
Ion Ratio Lower Upper
142 100
141 90.8 70.1 105.1
115 46.6 35.8 53.6





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.213 min Scan# 1460

Delta R.T. -0.000 min

Lab File: BN037401.D

Acq: 26 Jun 2025 19:42

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

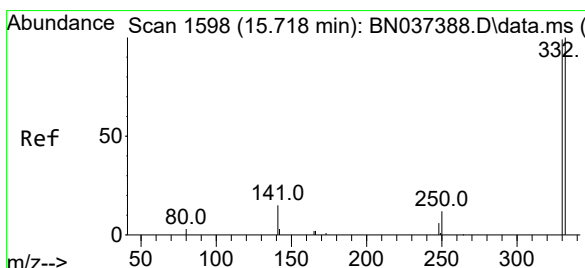
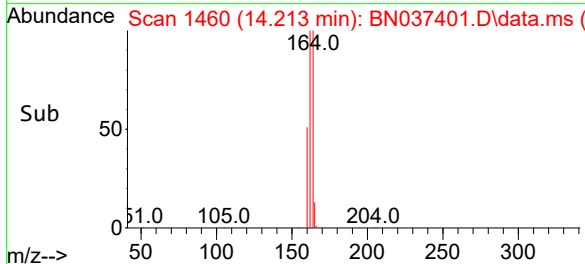
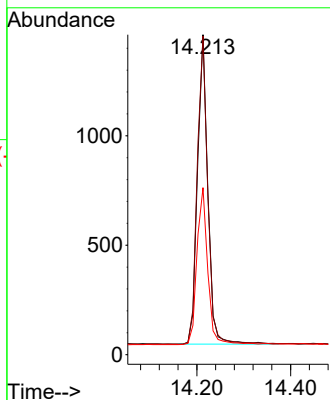
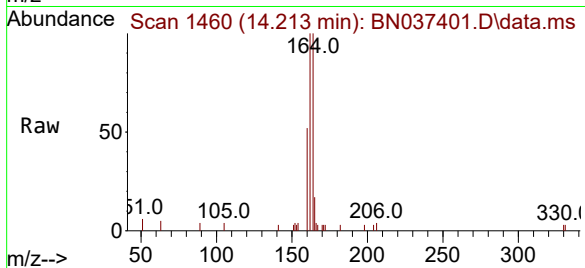
Tgt Ion:164 Resp: 2167

Ion Ratio Lower Upper

164 100

162 99.6 82.6 123.8

160 52.2 42.2 63.2



#14

2,4,6-Tribromophenol

Concen: 0.448 ng

RT: 15.718 min Scan# 1598

Delta R.T. -0.000 min

Lab File: BN037401.D

Acq: 26 Jun 2025 19:42

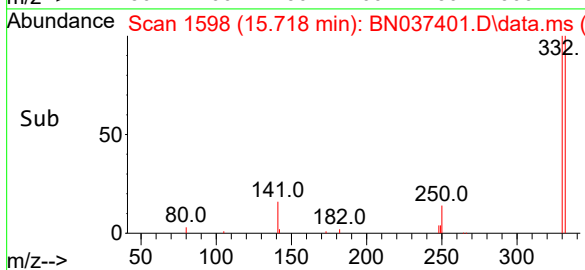
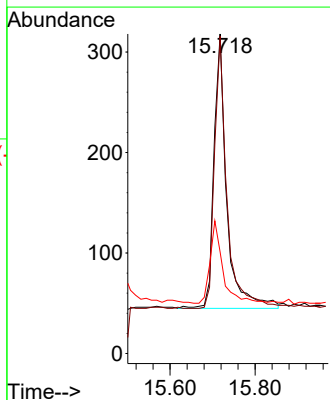
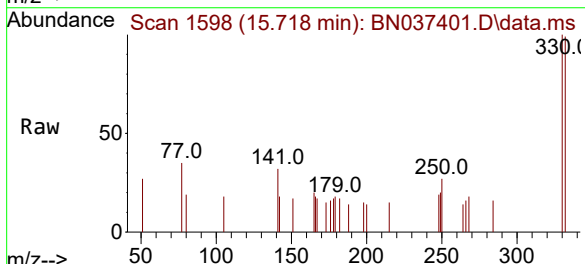
Tgt Ion:330 Resp: 570

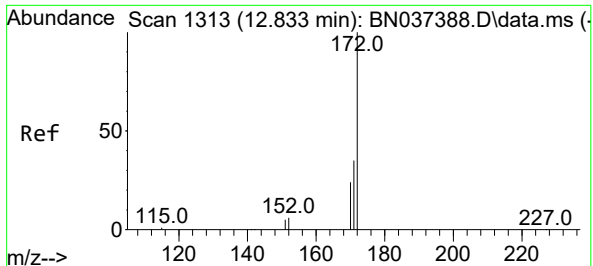
Ion Ratio Lower Upper

330 100

332 96.5 77.8 116.8

141 30.5 24.0 36.0

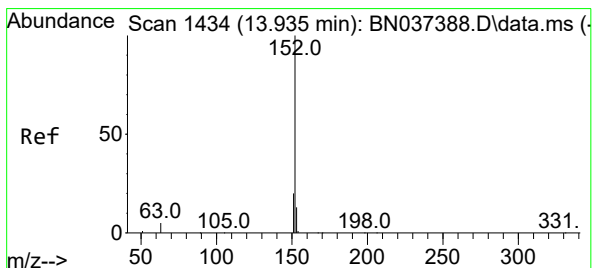
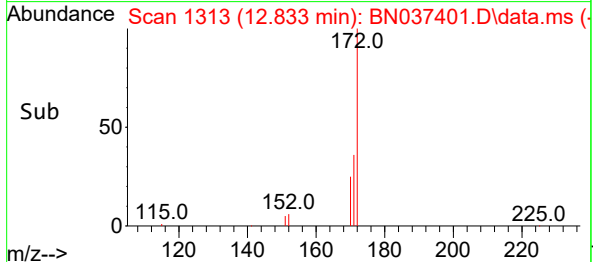
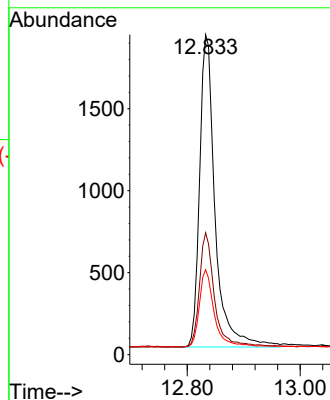
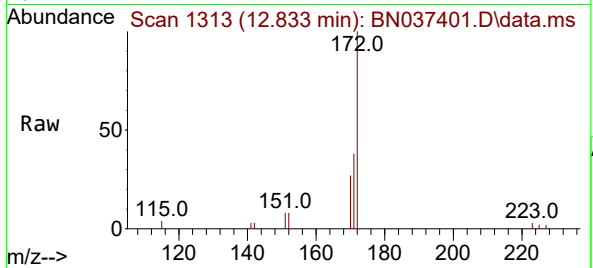




#15
2-Fluorobiphenyl
Concen: 0.389 ng
RT: 12.833 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

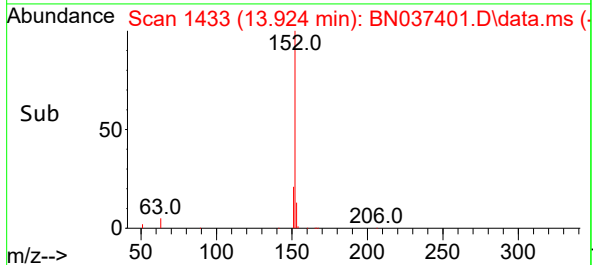
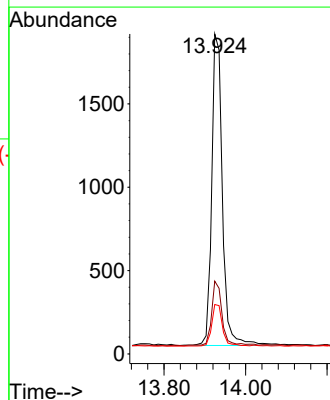
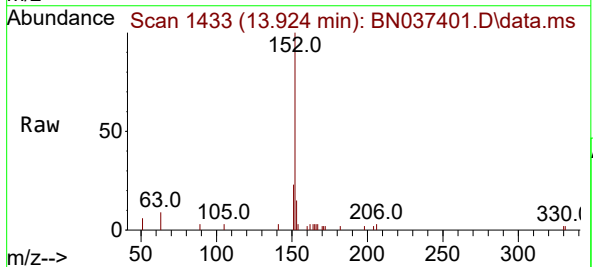
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

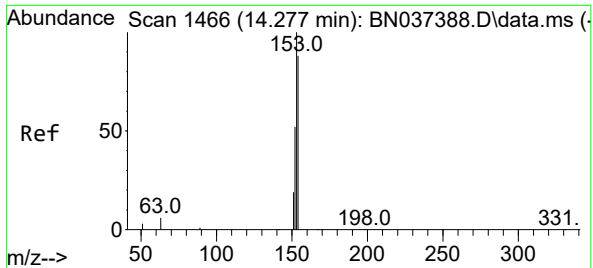
Tgt Ion:172 Resp: 3639
Ion Ratio Lower Upper
172 100
171 38.1 28.8 43.2
170 26.5 20.3 30.5



#16
Acenaphthylene
Concen: 0.379 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

Tgt Ion:152 Resp: 3402
Ion Ratio Lower Upper
152 100
151 20.4 15.8 23.6
153 13.4 10.3 15.5

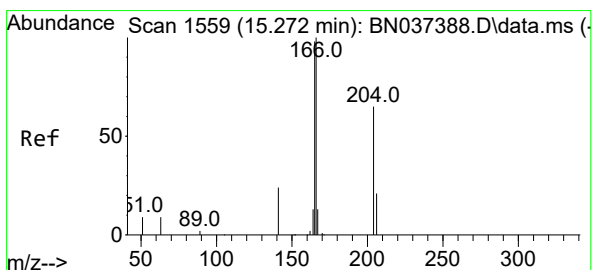
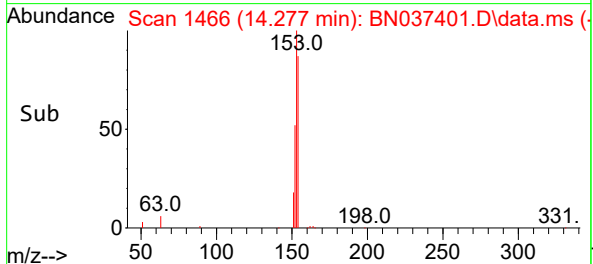
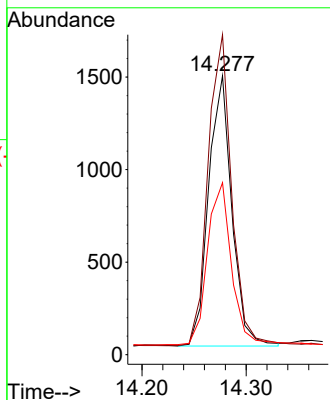
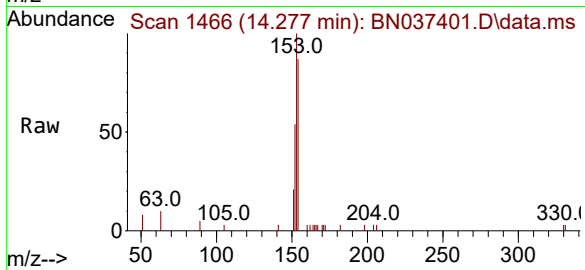




#17
Acenaphthene
Concen: 0.386 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

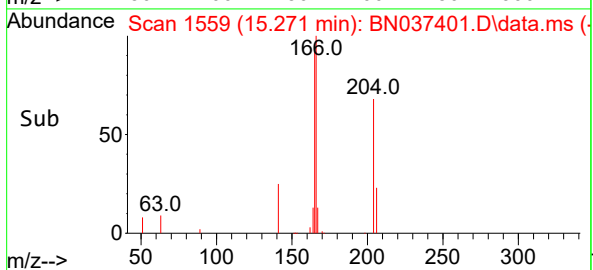
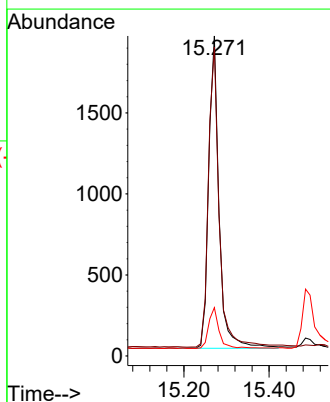
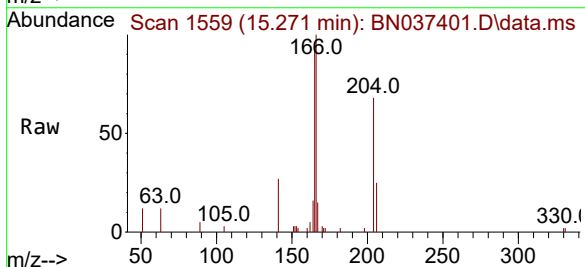
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

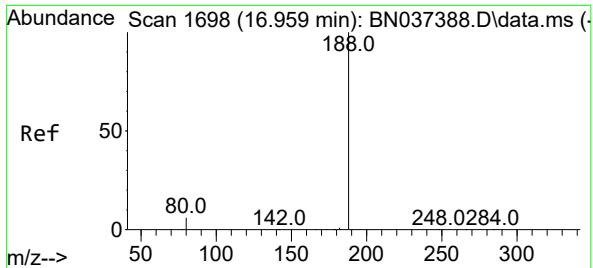
Tgt Ion:154 Resp: 2265
Ion Ratio Lower Upper
154 100
153 118.1 94.6 141.8
152 63.7 50.2 75.2



#18
Fluorene
Concen: 0.392 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

Tgt Ion:166 Resp: 3246
Ion Ratio Lower Upper
166 100
165 99.3 79.4 119.2
167 13.4 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.959 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037401.D

Acq: 26 Jun 2025 19:42

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

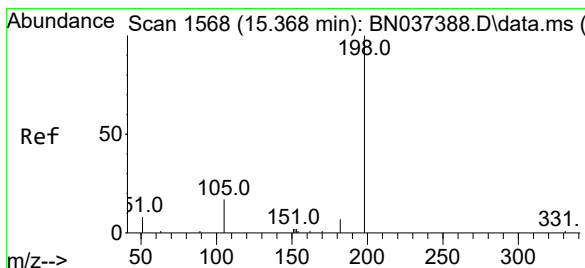
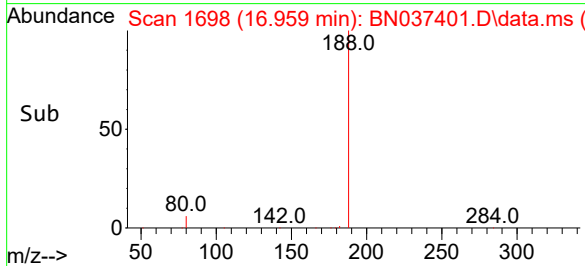
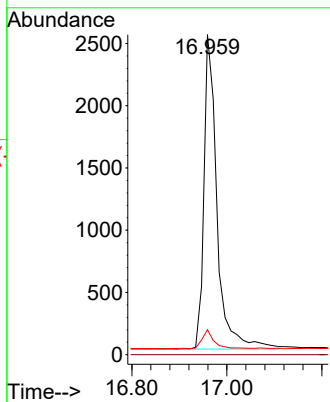
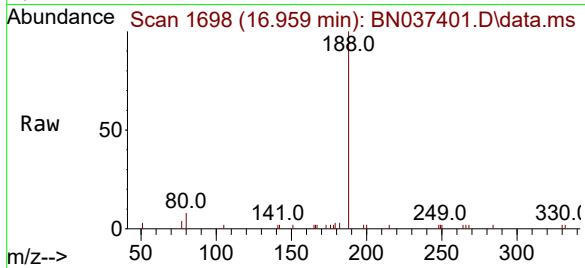
Tgt Ion:188 Resp: 4846

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.8 6.2 9.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.394 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.000 min

Lab File: BN037401.D

Acq: 26 Jun 2025 19:42

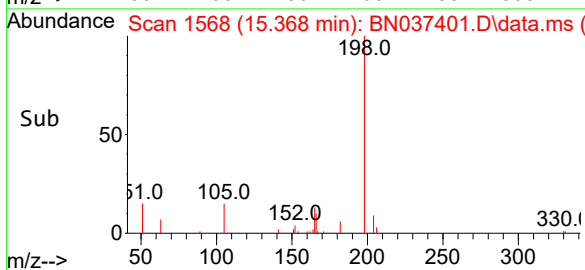
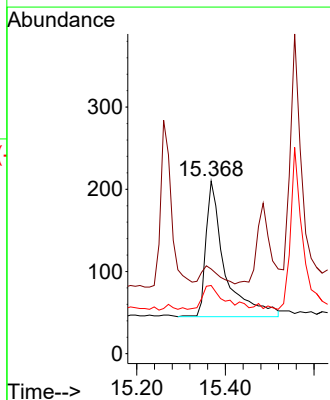
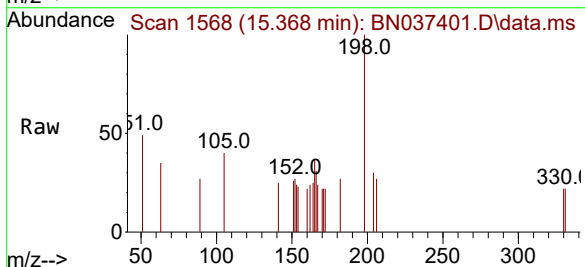
Tgt Ion:198 Resp: 490

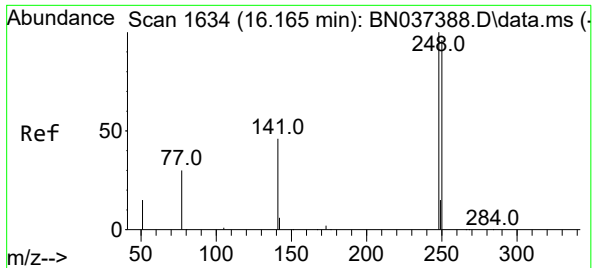
Ion Ratio Lower Upper

198 100

51 49.0 38.8 58.2

105 39.5 29.8 44.6

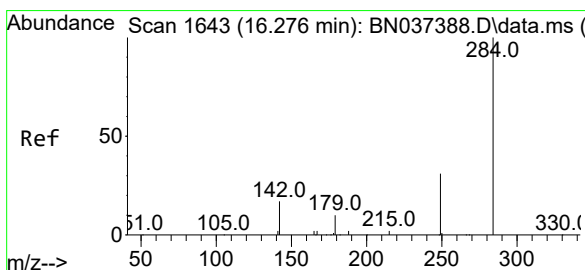
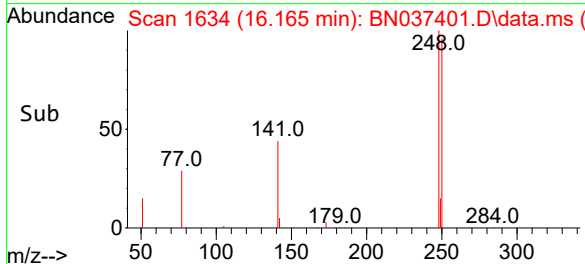
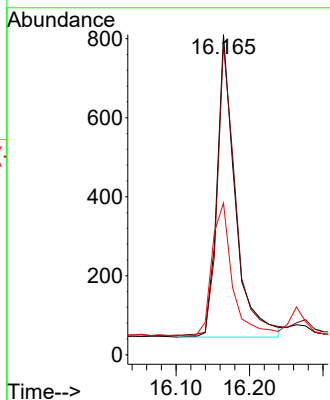
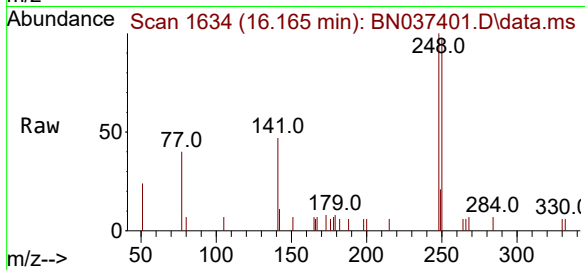




#21
4-Bromophenyl-phenylether
Concen: 0.384 ng
RT: 16.165 min Scan# 1634
Delta R.T. -0.000 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

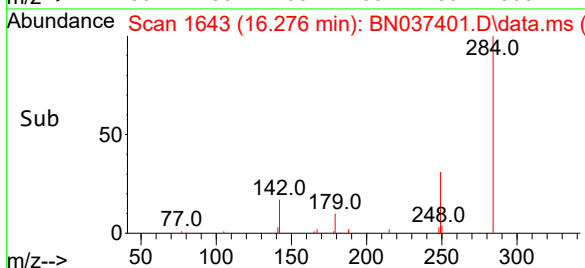
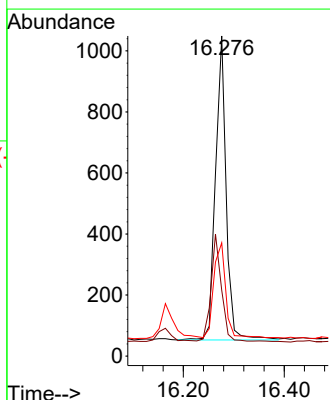
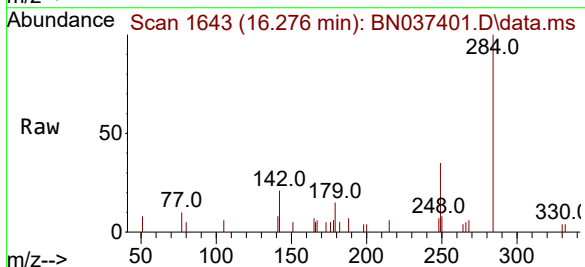
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

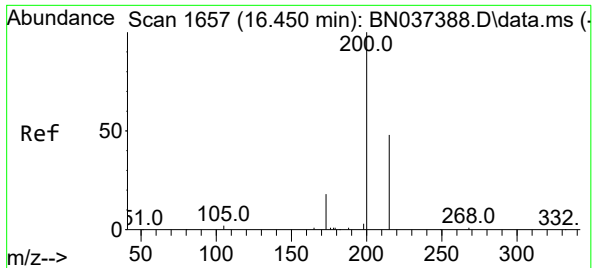
Tgt Ion:248 Resp: 1314
Ion Ratio Lower Upper
248 100
250 97.0 77.0 115.4
141 47.4 38.7 58.1



#22
Hexachlorobenzene
Concen: 0.397 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

Tgt Ion:284 Resp: 1458
Ion Ratio Lower Upper
284 100
142 33.8 27.2 40.8
249 35.9 26.7 40.1

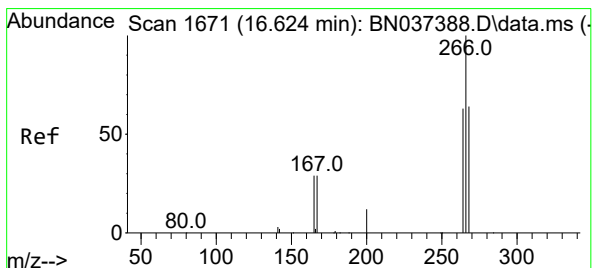
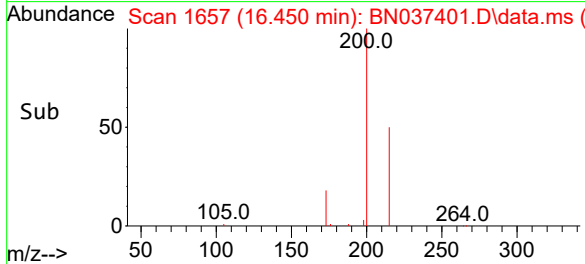
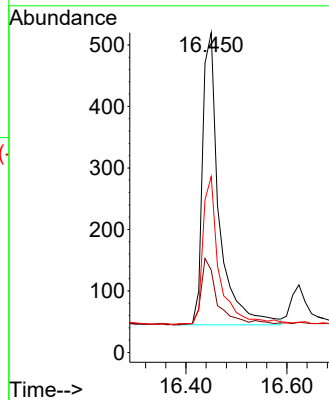
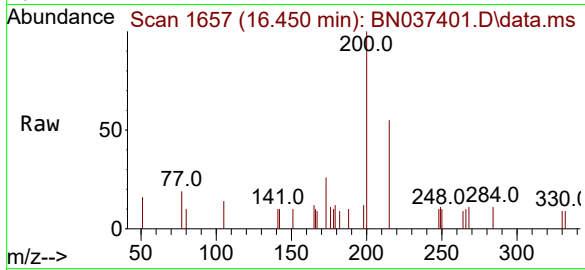




#23
Atrazine
Concen: 0.402 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.000 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

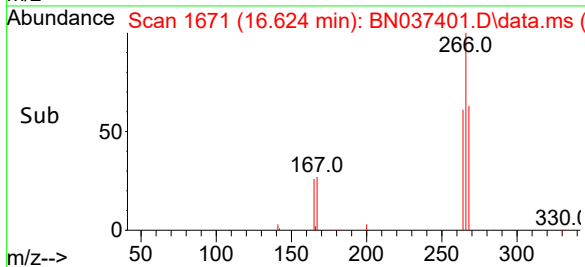
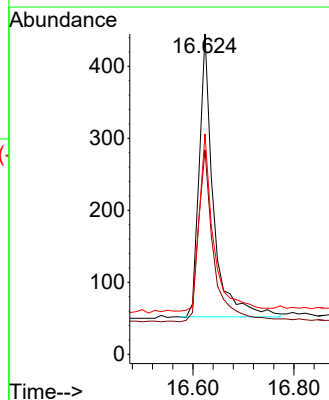
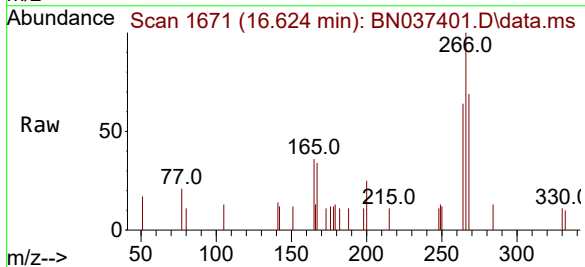
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

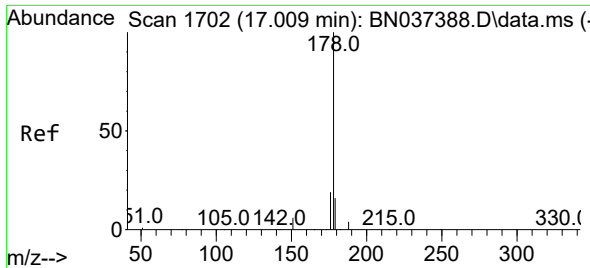
Tgt Ion:200 Resp: 1088
Ion Ratio Lower Upper
200 100
173 25.8 19.0 28.6
215 55.0 41.3 61.9



#24
Pentachlorophenol
Concen: 0.387 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

Tgt Ion:266 Resp: 769
Ion Ratio Lower Upper
266 100
264 65.4 49.2 73.8
268 68.5 54.2 81.4

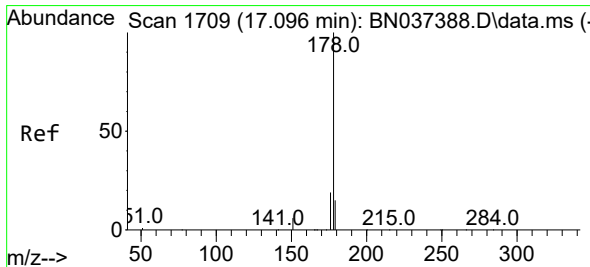
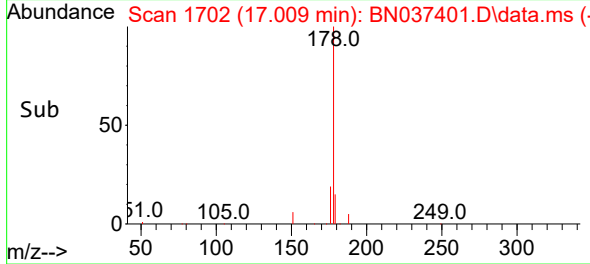
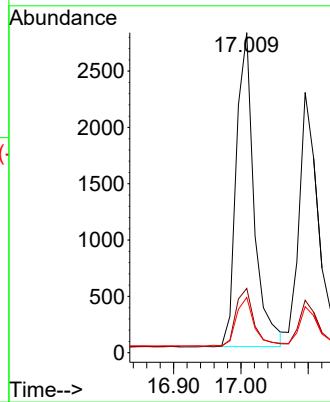
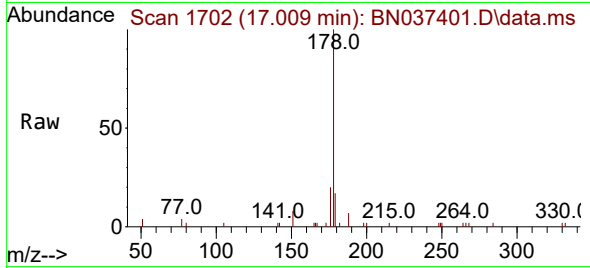




#25
Phenanthrene
Concen: 0.375 ng
RT: 17.009 min Scan# 1702
Delta R.T. -0.000 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

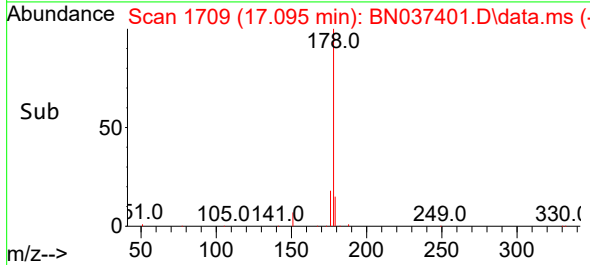
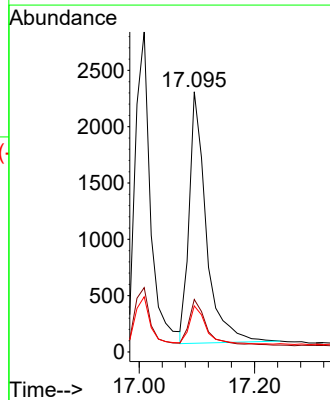
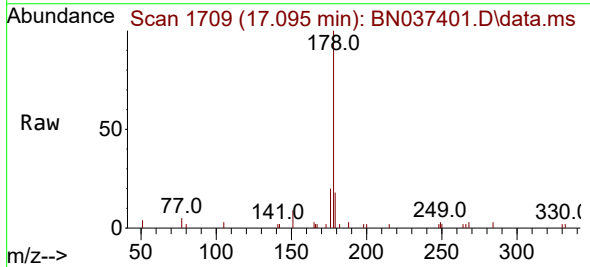
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

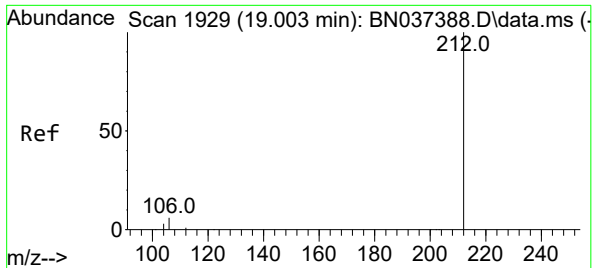
Tgt Ion:178 Resp: 5123
Ion Ratio Lower Upper
178 100
176 19.5 15.6 23.4
179 15.5 12.8 19.2



#26
Anthracene
Concen: 0.364 ng
RT: 17.095 min Scan# 1709
Delta R.T. -0.000 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

Tgt Ion:178 Resp: 4568
Ion Ratio Lower Upper
178 100
176 19.3 14.9 22.3
179 15.5 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.394 ng

RT: 19.003 min Scan# 1929

Delta R.T. -0.000 min

Lab File: BN037401.D

Acq: 26 Jun 2025 19:42

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

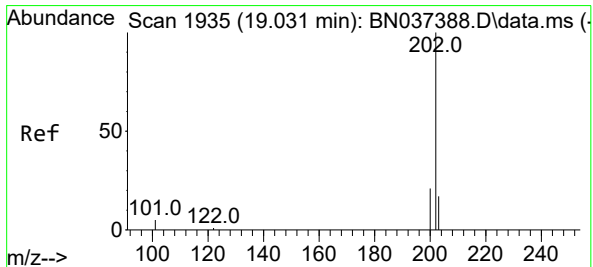
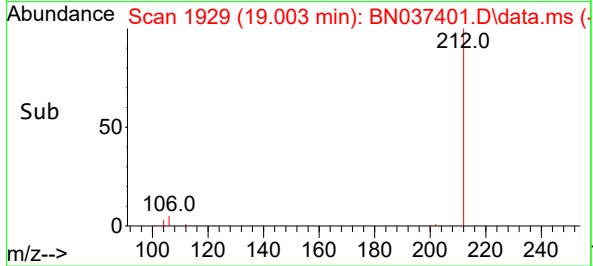
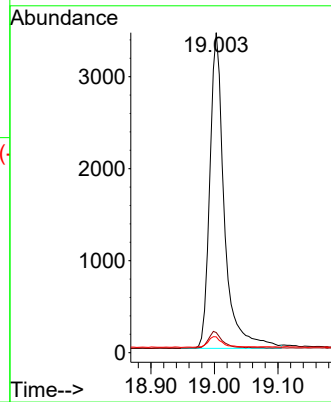
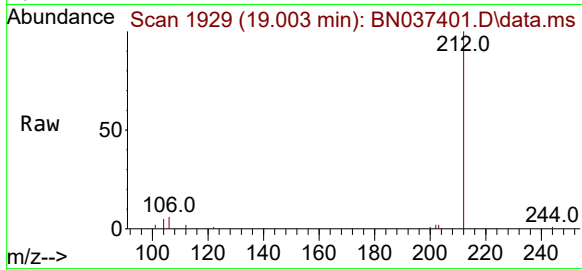
Tgt Ion:212 Resp: 5473

Ion Ratio Lower Upper

212 100

106 5.4 4.5 6.7

104 3.4 2.7 4.1



#28

Fluoranthene

Concen: 0.406 ng

RT: 19.031 min Scan# 1935

Delta R.T. -0.000 min

Lab File: BN037401.D

Acq: 26 Jun 2025 19:42

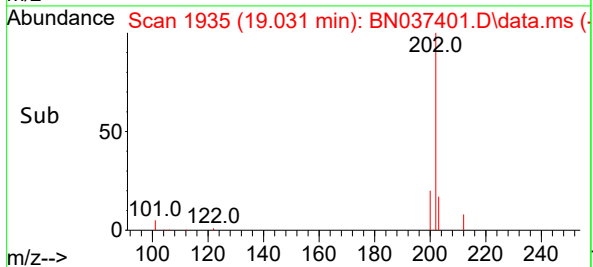
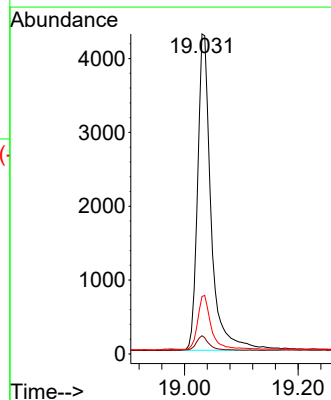
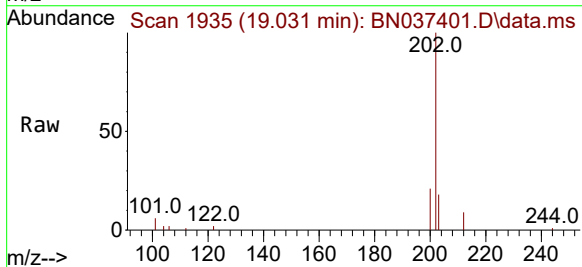
Tgt Ion:202 Resp: 7076

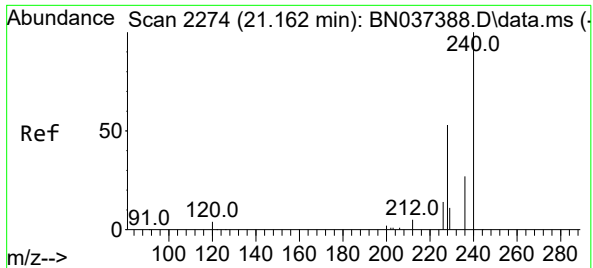
Ion Ratio Lower Upper

202 100

101 4.5 3.8 5.6

203 17.1 13.5 20.3

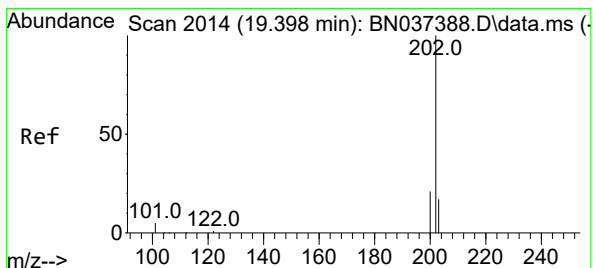
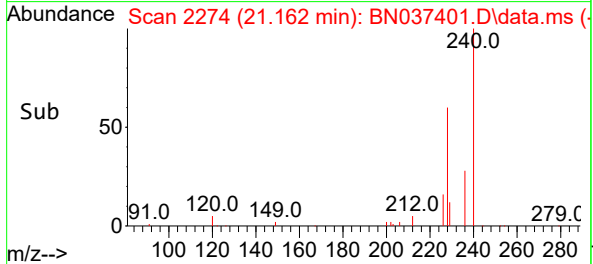
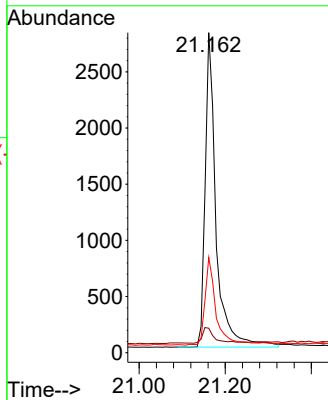
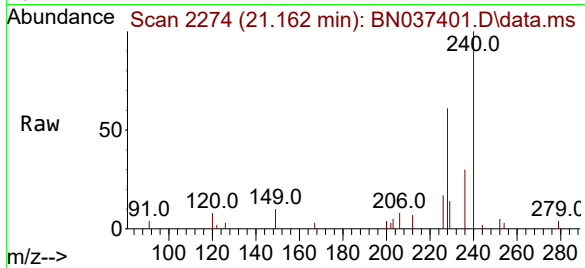




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 2116
Delta R.T. -0.000 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

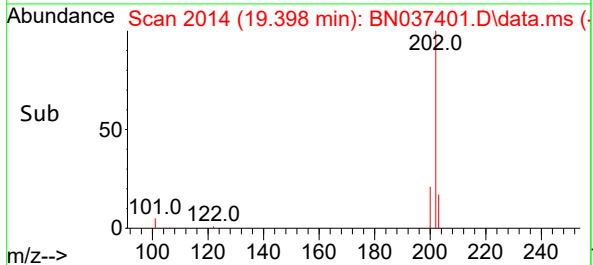
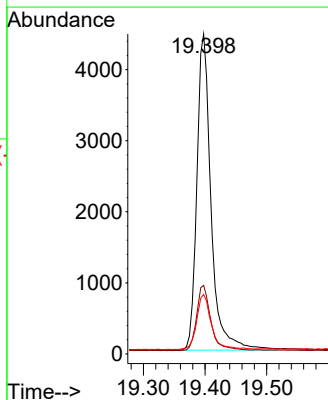
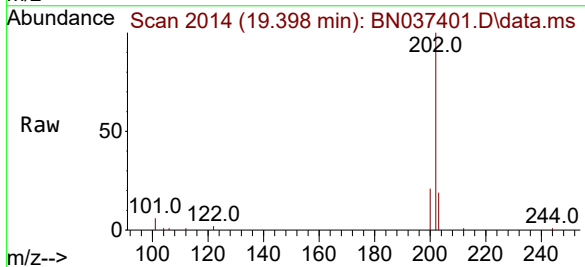
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

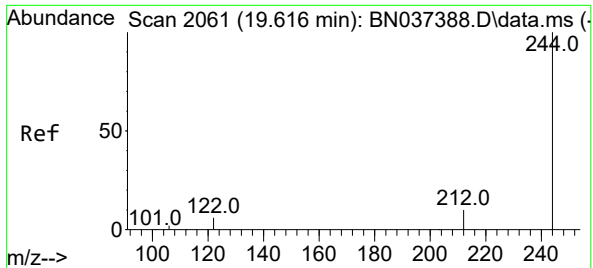
Tgt Ion:240 Resp: 4925
Ion Ratio Lower Upper
240 100
120 7.7 5.3 7.9
236 29.8 22.7 34.1



#30
Pyrene
Concen: 0.382 ng
RT: 19.398 min Scan# 2014
Delta R.T. -0.000 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

Tgt Ion:202 Resp: 7117
Ion Ratio Lower Upper
202 100
200 20.6 16.5 24.7
203 18.0 14.2 21.2

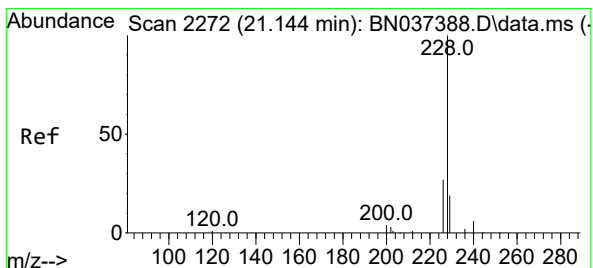
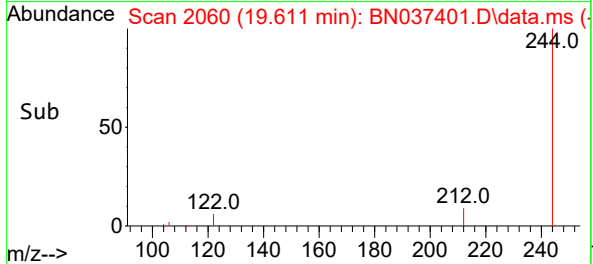
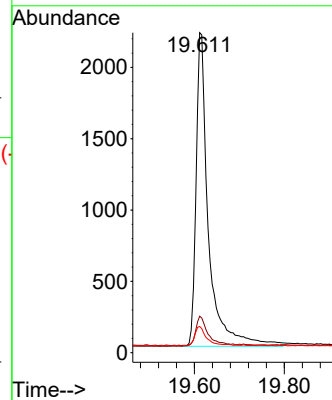
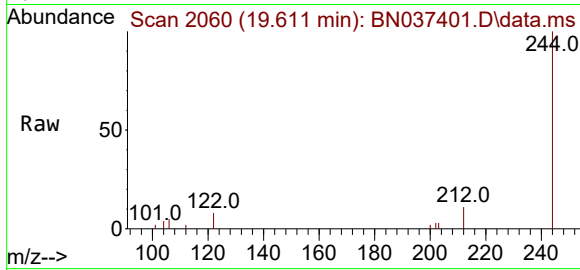




#31
Terphenyl-d14
Concen: 0.402 ng
RT: 19.611 min Scan# 2061
Delta R.T. -0.005 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

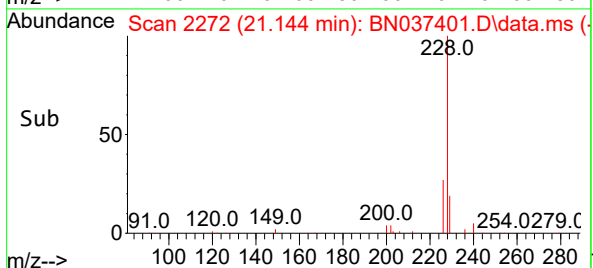
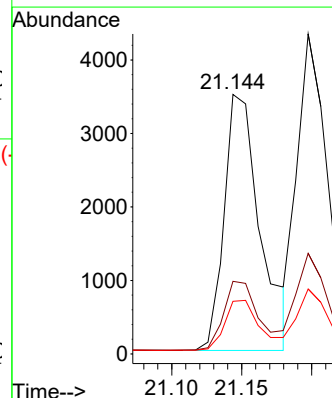
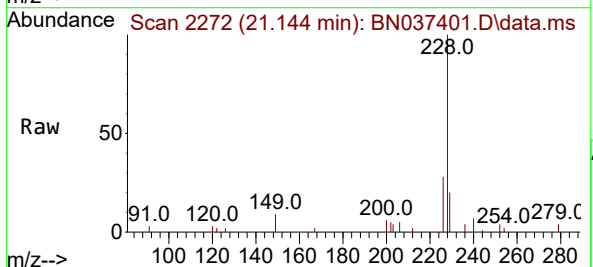
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

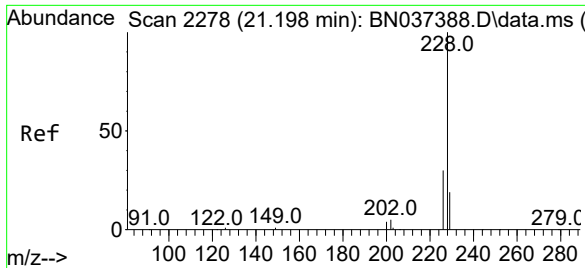
Tgt Ion:244 Resp: 4221
Ion Ratio Lower Upper
244 100
212 11.4 9.1 13.7
122 8.2 6.3 9.5



#32
Benzo(a)anthracene
Concen: 0.403 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

Tgt Ion:228 Resp: 6231
Ion Ratio Lower Upper
228 100
226 28.0 22.6 34.0
229 20.3 16.2 24.2





#33

Chrysene

Concen: 0.395 ng

RT: 21.198 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037401.D

Acq: 26 Jun 2025 19:42

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

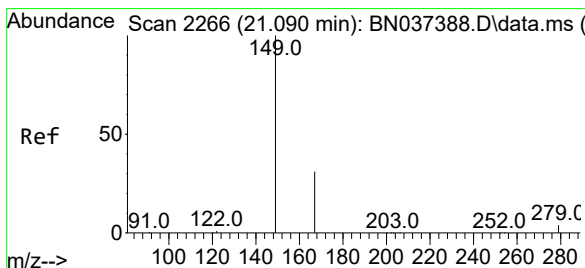
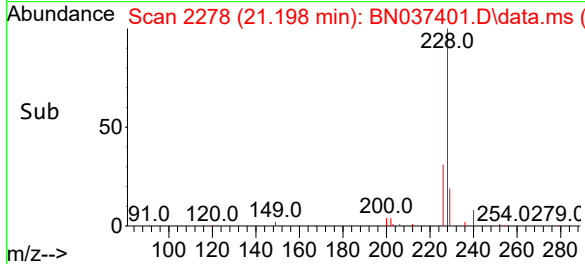
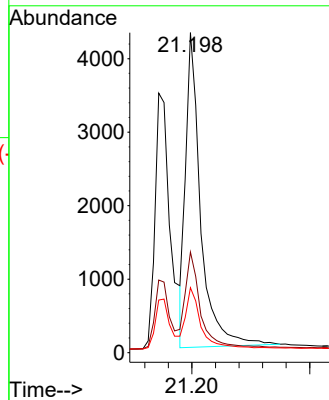
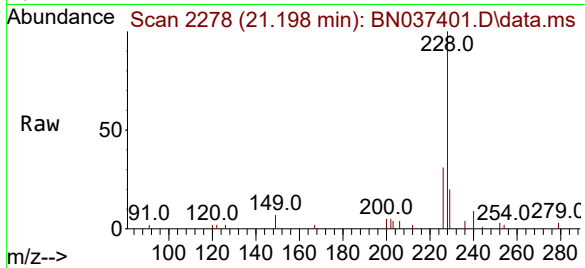
Tgt Ion:228 Resp: 7562

Ion Ratio Lower Upper

228 100

226 31.5 24.5 36.7

229 20.3 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.449 ng

RT: 21.090 min Scan# 2266

Delta R.T. -0.000 min

Lab File: BN037401.D

Acq: 26 Jun 2025 19:42

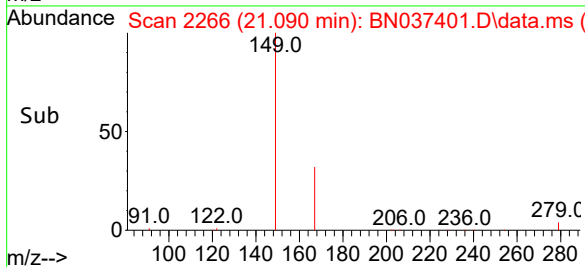
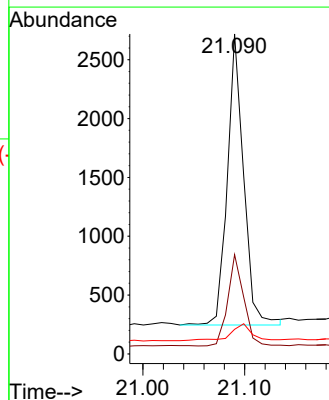
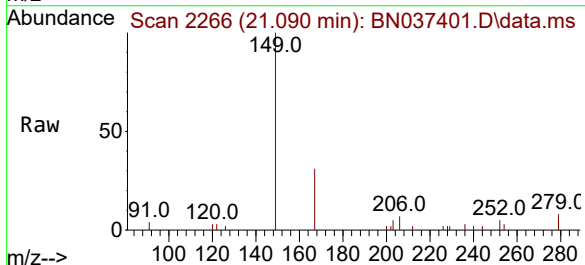
Tgt Ion:149 Resp: 2752

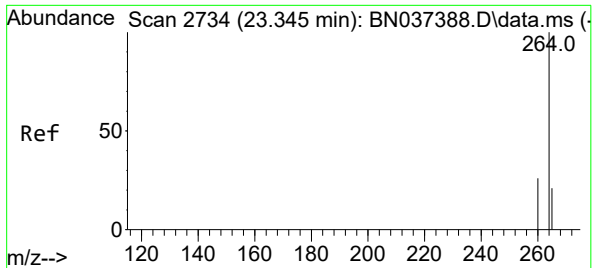
Ion Ratio Lower Upper

149 100

167 30.9 24.8 37.2

279 7.3 5.0 7.6

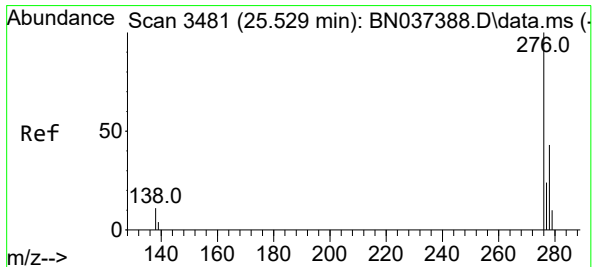
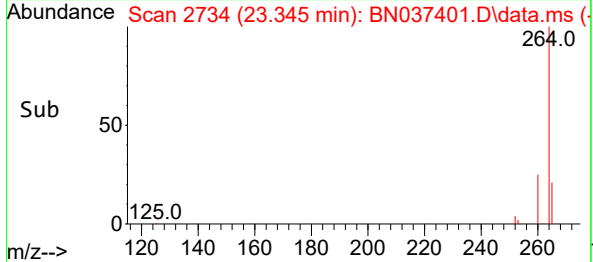
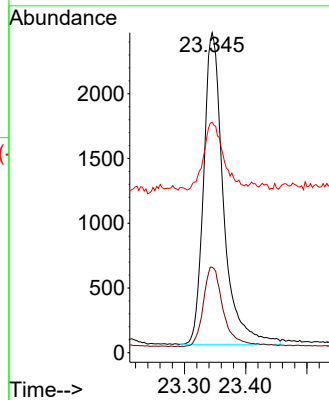
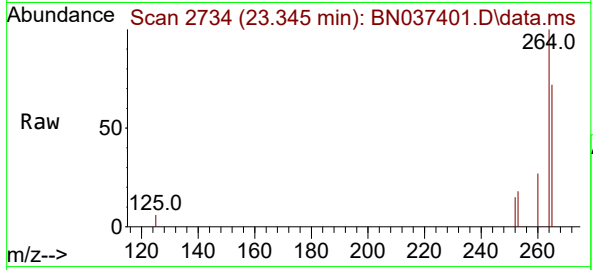




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.345 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

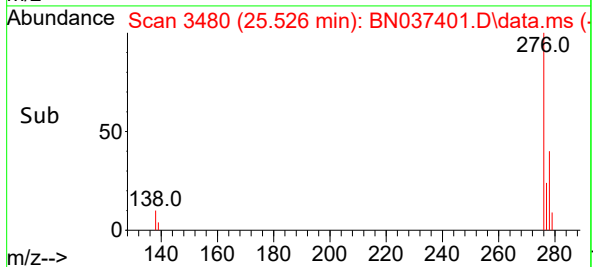
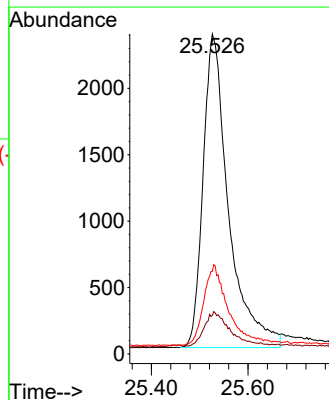
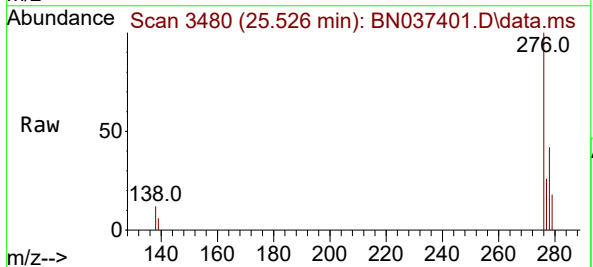
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

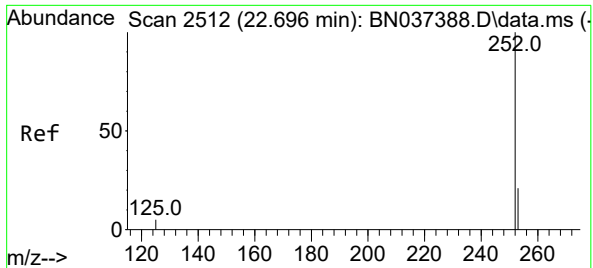
Tgt Ion:264 Resp: 5418
Ion Ratio Lower Upper
264 100
260 26.7 21.4 32.0
265 72.0 56.2 84.4



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.379 ng
RT: 25.526 min Scan# 3480
Delta R.T. -0.003 min
Lab File: BN037401.D
Acq: 26 Jun 2025 19:42

Tgt Ion:276 Resp: 8662
Ion Ratio Lower Upper
276 100
138 10.5 8.5 12.7
277 24.2 19.7 29.5





#37

Benzo(b)fluoranthene

Concen: 0.377 ng

RT: 22.693 min Scan# 2511

Delta R.T. -0.003 min

Lab File: BN037401.D

Acq: 26 Jun 2025 19:42

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

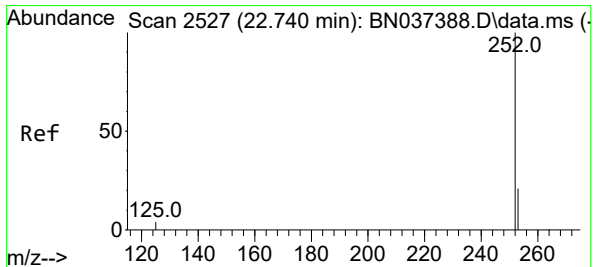
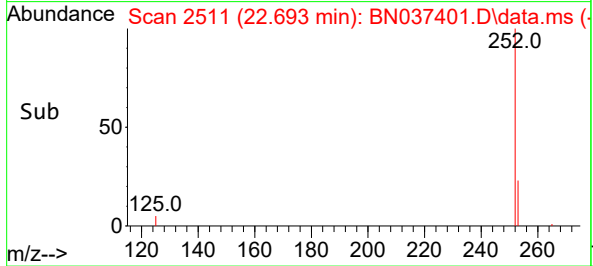
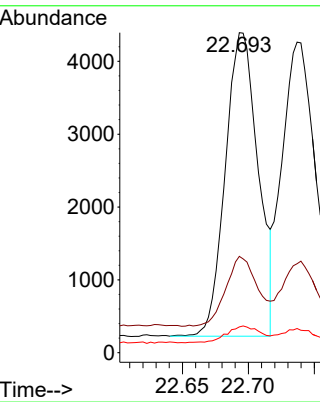
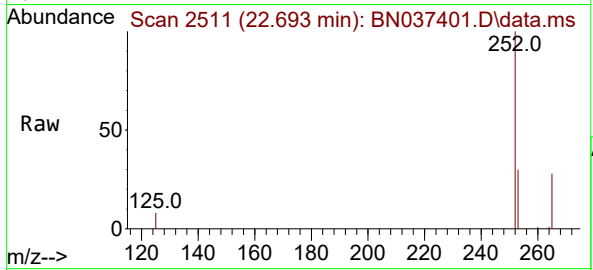
Tgt Ion:252 Resp: 7207

Ion Ratio Lower Upper

252 100

253 30.1 22.8 34.2

125 8.0 6.2 9.4



#38

Benzo(k)fluoranthene

Concen: 0.392 ng

RT: 22.737 min Scan# 2526

Delta R.T. -0.003 min

Lab File: BN037401.D

Acq: 26 Jun 2025 19:42

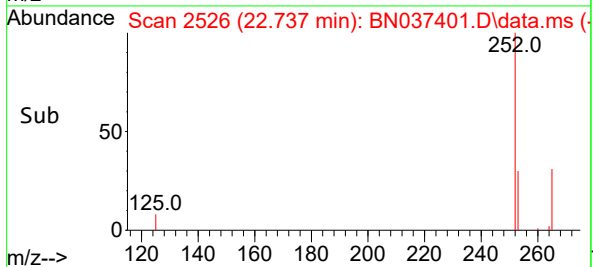
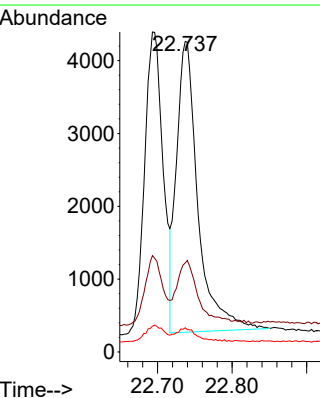
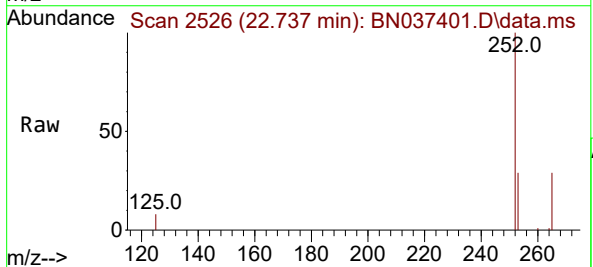
Tgt Ion:252 Resp: 7998

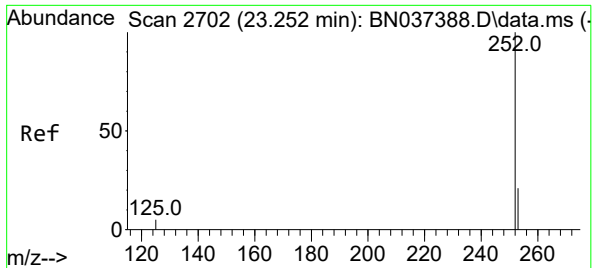
Ion Ratio Lower Upper

252 100

253 28.6 23.2 34.8

125 7.8 6.0 9.0





#39

Benzo(a)pyrene

Concen: 0.375 ng

RT: 23.254 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037401.D

Acq: 26 Jun 2025 19:42

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

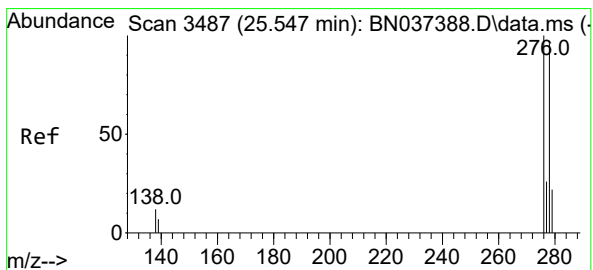
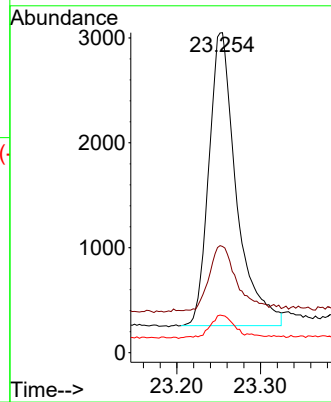
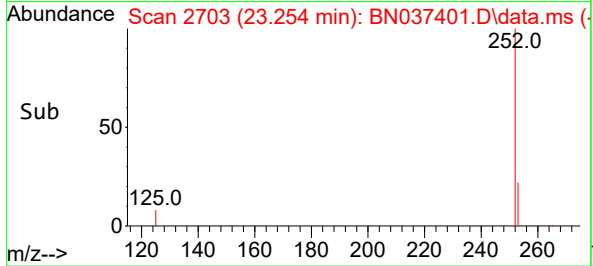
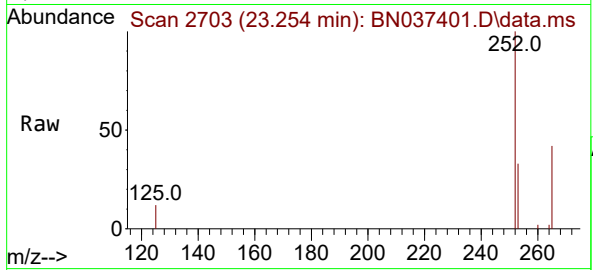
Tgt Ion:252 Resp: 6367

Ion Ratio Lower Upper

252 100

253 33.2 25.6 38.4

125 11.6 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.362 ng

RT: 25.547 min Scan# 3487

Delta R.T. -0.000 min

Lab File: BN037401.D

Acq: 26 Jun 2025 19:42

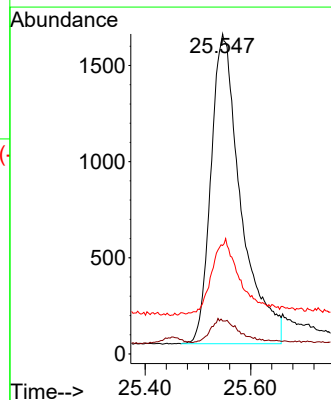
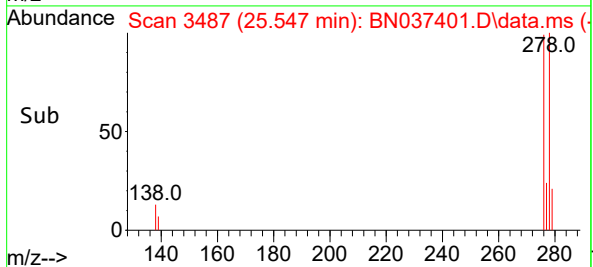
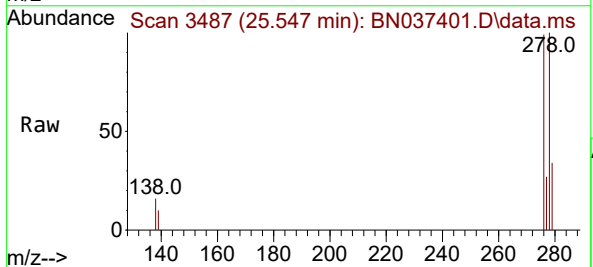
Tgt Ion:278 Resp: 6349

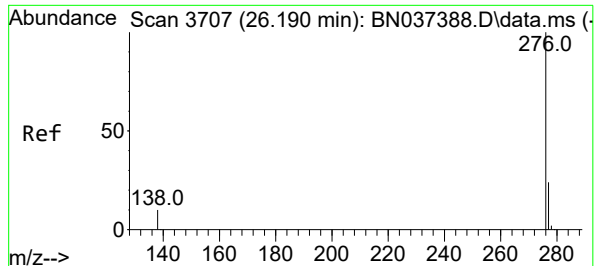
Ion Ratio Lower Upper

278 100

139 10.3 8.5 12.7

279 33.9 27.5 41.3





#41

Benzo(g,h,i)perylene

Concen: 0.386 ng

RT: 26.187 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037401.D

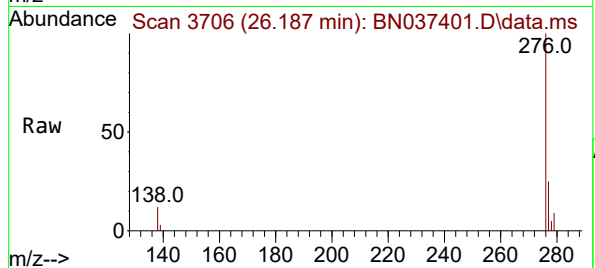
Acq: 26 Jun 2025 19:42

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



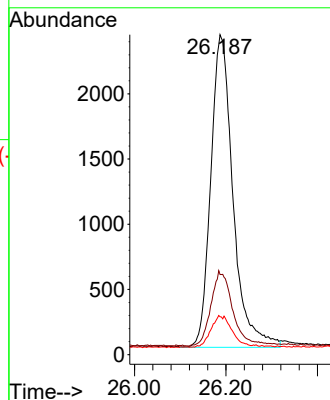
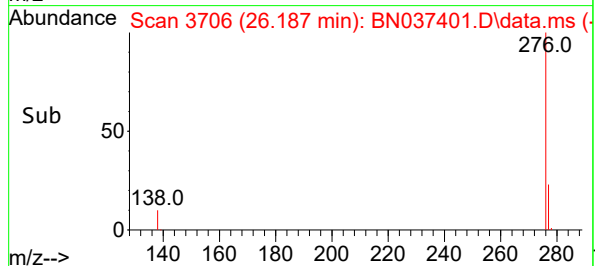
Tgt Ion:276 Resp: 8103

Ion Ratio Lower Upper

276 100

277 25.1 21.0 31.4

138 11.8 9.6 14.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037401.D
Acq On : 26 Jun 2025 19:42
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 27 03:00:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 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	70	0.00
2	1,4-Dioxane	0.379	0.416	-9.8	79	0.00
3	n-Nitrosodimethylamine	0.375	0.371	1.1	69	0.00
4 S	2-Fluorophenol	0.771	0.791	-2.6	69	0.00
5 S	Phenol-d6	0.799	0.773	3.3	67	0.00
6	bis(2-Chloroethyl)ether	0.711	0.579	18.6	56	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	69	0.00
8 S	Nitrobenzene-d5	0.321	0.299	6.9	66	0.00
9	Naphthalene	1.030	1.011	1.8	70	-0.01
10	Hexachlorobutadiene	0.409	0.434	-6.1	72	0.00
11 SURR	2-Methylnaphthalene-d10	0.619	0.588	5.0	70	0.00
12	2-Methylnaphthalene	0.709	0.678	4.4	68	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	71	0.00
14 S	2,4,6-Tribromophenol	0.235	0.263	-11.9	78	0.00
15 S	2-Fluorobiphenyl	1.727	1.679	2.8	69	0.00
16	Acenaphthylene	1.659	1.570	5.4	71	-0.01
17	Acenaphthene	1.083	1.045	3.5	71	0.00
18	Fluorene	1.530	1.498	2.1	72	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	77	0.00
20	4,6-Dinitro-2-methylphenol	0.103	0.101	1.9	92	0.00
21	4-Bromophenyl-phenylether	0.282	0.271	3.9	78	0.00
22	Hexachlorobenzene	0.303	0.301	0.7	77	0.00
23	Atrazine	0.224	0.225	-0.4	81	0.00
24	Pentachlorophenol	0.164	0.159	3.0	79	0.00
25	Phenanthrene	1.127	1.057	6.2	75	0.00
26	Anthracene	1.036	0.943	9.0	75	0.00
27 SURR	Fluoranthene-d10	1.146	1.129	1.5	82	0.00
28	Fluoranthene	1.439	1.460	-1.5	83	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	88	0.00
30	Pyrene	1.514	1.445	4.6	83	0.00
31 S	Terphenyl-d14	0.853	0.857	-0.5	87	0.00
32	Benzo(a)anthracene	1.257	1.265	-0.6	95	0.00
33	Chrysene	1.556	1.535	1.3	85	0.00
34	Bis(2-ethylhexyl)phthalate	0.498	0.559	-12.2	97	0.00
35 I	Perylene-d12	1.000	1.000	0.0	91	0.00
36	Indeno(1,2,3-cd)pyrene	1.686	1.599	5.2	92	0.00
37	Benzo(b)fluoranthene	1.410	1.330	5.7	92	0.00
38	Benzo(k)fluoranthene	1.507	1.476	2.1	92	0.00
39 C	Benzo(a)pyrene	1.254	1.175	6.3	90	0.00
40	Dibenzo(a,h)anthracene	1.296	1.172	9.6	88	0.00
41	Benzo(g,h,i)perylene	1.548	1.496	3.4	92	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037401.D
Acq On : 26 Jun 2025 19:42
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 27 03:00:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 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	70	0.00
2	1,4-Dioxane	0.400	0.439	-9.7	79	0.00
3	n-Nitrosodimethylamine	0.400	0.396	1.0	69	0.00
4 S	2-Fluorophenol	0.400	0.411	-2.7	69	0.00
5 S	Phenol-d6	0.400	0.387	3.3	67	0.00
6	bis(2-Chloroethyl)ether	0.400	0.326	18.5	56	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	69	0.00
8 S	Nitrobenzene-d5	0.400	0.373	6.8	66	0.00
9	Naphthalene	0.400	0.393	1.8	70	-0.01
10	Hexachlorobutadiene	0.400	0.425	-6.2	72	0.00
11 SURR	2-Methylnaphthalene-d10	0.400	0.380	5.0	70	0.00
12	2-Methylnaphthalene	0.400	0.382	4.5	68	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	71	0.00
14 S	2,4,6-Tribromophenol	0.400	0.448	-12.0	78	0.00
15 S	2-Fluorobiphenyl	0.400	0.389	2.8	69	0.00
16	Acenaphthylene	0.400	0.379	5.3	71	-0.01
17	Acenaphthene	0.400	0.386	3.5	71	0.00
18	Fluorene	0.400	0.392	2.0	72	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	77	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.394	1.5	92	0.00
21	4-Bromophenyl-phenylether	0.400	0.384	4.0	78	0.00
22	Hexachlorobenzene	0.400	0.397	0.8	77	0.00
23	Atrazine	0.400	0.402	-0.5	81	0.00
24	Pentachlorophenol	0.400	0.387	3.3	79	0.00
25	Phenanthrene	0.400	0.375	6.3	75	0.00
26	Anthracene	0.400	0.364	9.0	75	0.00
27 SURR	Fluoranthene-d10	0.400	0.394	1.5	82	0.00
28	Fluoranthene	0.400	0.406	-1.5	83	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	88	0.00
30	Pyrene	0.400	0.382	4.5	83	0.00
31 S	Terphenyl-d14	0.400	0.402	-0.5	87	0.00
32	Benzo(a)anthracene	0.400	0.403	-0.8	95	0.00
33	Chrysene	0.400	0.395	1.3	85	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.449	-12.2	97	0.00
35 I	Perylene-d12	0.400	0.400	0.0	91	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.379	5.3	92	0.00
37	Benzo(b)fluoranthene	0.400	0.377	5.8	92	0.00
38	Benzo(k)fluoranthene	0.400	0.392	2.0	92	0.00
39 C	Benzo(a)pyrene	0.400	0.375	6.3	90	0.00
40	Dibenzo(a,h)anthracene	0.400	0.362	9.5	88	0.00
41	Benzo(g,h,i)perylene	0.400	0.386	3.5	92	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2345 SAS No.: Q2345 SDG No.: Q2345

Instrument ID: BNA_N Calibration Date/Time: 06/27/2025 10:09

Lab File ID: BN037417.D Init. Calib. Date(s): 06/26/2025 06/26/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 10:41 14:17

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.619	0.578		-6.6	20.0
Fluoranthene-d10	1.146	1.126		-1.7	20.0
2-Fluorophenol	0.771	0.793		2.9	20.0
Phenol-d6	0.799	0.783		-2.0	20.0
Nitrobenzene-d5	0.321	0.297		-7.5	20.0
2-Fluorobiphenyl	1.727	1.669		-3.4	20.0
2,4,6-Tribromophenol	0.235	0.245		4.3	20.0
Terphenyl-d14	0.853	0.854		0.1	20.0
1,4-Dioxane	0.379	0.367		-3.2	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062725\
 Data File : BN037417.D
 Acq On : 27 Jun 2025 10:09
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

Quant Time: Jun 27 10:47:49 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 16:06:33 2025
 Response via : Initial Calibration

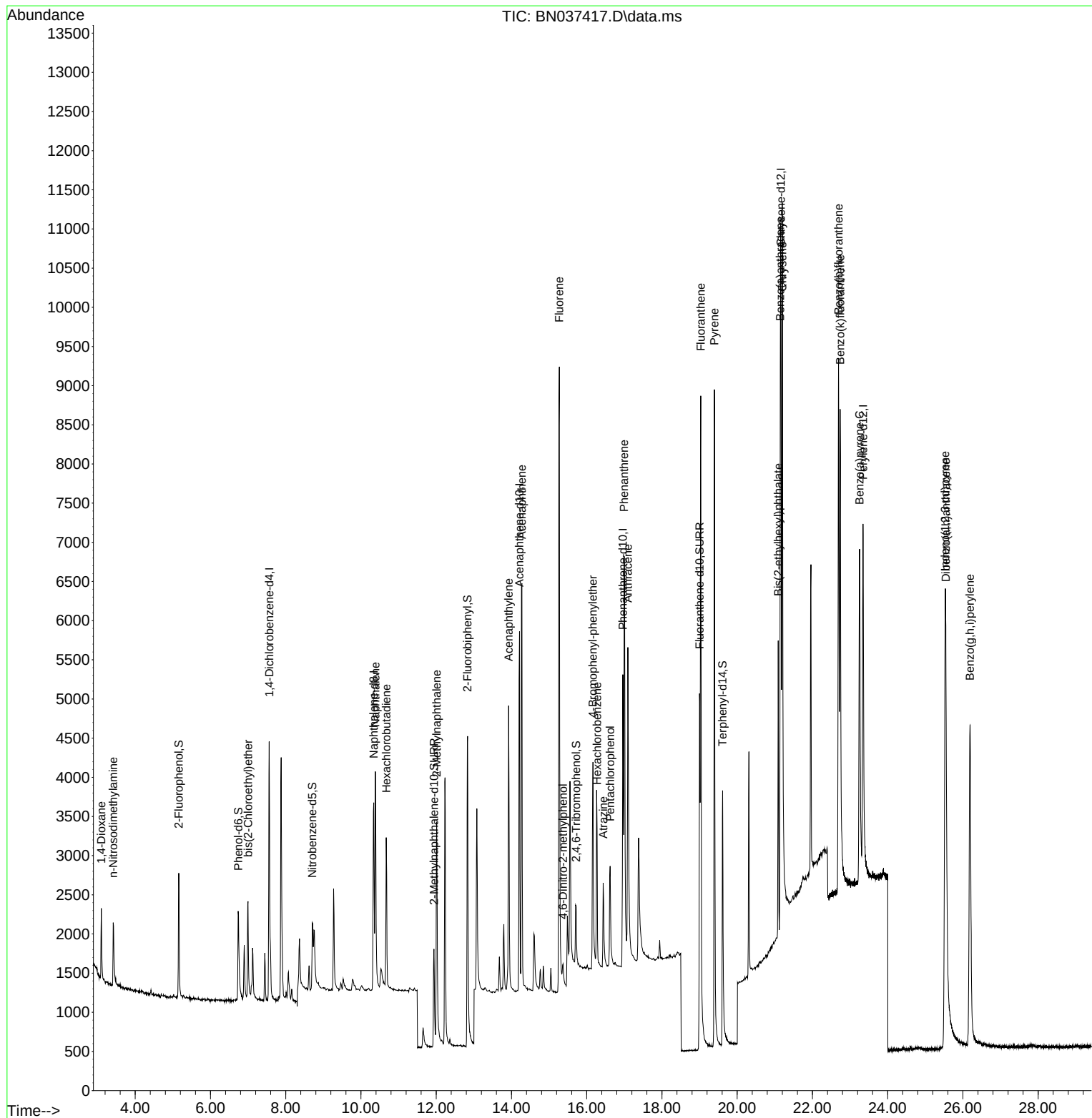
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.560	152	1790	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	3949	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	2792	0.400	ng	0.00
19) Phenanthrene-d10	16.959	188	6217	0.400	ng	0.00
29) Chrysene-d12	21.162	240	6164	0.400	ng	0.00
35) Perylene-d12	23.345	264	6622	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.155	112	1420	0.412	ng	0.00
5) Phenol-d6	6.744	99	1401	0.392	ng	0.00
8) Nitrobenzene-d5	8.707	82	1172	0.370	ng	-0.01
11) 2-Methylnaphthalene-d10	11.940	152	2284	0.374	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	684	0.418	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	4660	0.387	ng	0.00
27) Fluoranthene-d10	18.998	212	7000	0.393	ng	0.00
31) Terphenyl-d14	19.611	244	5266	0.401	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.097	88	657	0.387	ng	94
3) n-Nitrosodimethylamine	3.415	42	655	0.391	ng	# 97
6) bis(2-Chloroethyl)ether	6.997	93	1138	0.358	ng	92
9) Naphthalene	10.383	128	3943	0.388	ng	99
10) Hexachlorobutadiene	10.671	225	1635	0.405	ng	# 100
12) 2-Methylnaphthalene	12.011	142	2704	0.386	ng	99
16) Acenaphthylene	13.924	152	4415	0.381	ng	98
17) Acenaphthene	14.277	154	2916	0.386	ng	99
18) Fluorene	15.272	166	4204	0.394	ng	99
20) 4,6-Dinitro-2-methylph...	15.368	198	427	0.267	ng	90
21) 4-Bromophenyl-phenylether	16.165	248	1691	0.386	ng	95
22) Hexachlorobenzene	16.276	284	1840	0.390	ng	98
23) Atrazine	16.438	200	1277	0.368	ng	# 94
24) Pentachlorophenol	16.624	266	952	0.374	ng	97
25) Phenanthrene	16.996	178	6626	0.378	ng	100
26) Anthracene	17.095	178	5931	0.368	ng	99
28) Fluoranthene	19.031	202	8900	0.398	ng	99
30) Pyrene	19.393	202	9051	0.388	ng	100
32) Benzo(a)anthracene	21.144	228	7188	0.371	ng	99
33) Chrysene	21.198	228	9810	0.409	ng	99
34) Bis(2-ethylhexyl)phtha...	21.090	149	3108	0.405	ng	99
36) Indeno(1,2,3-cd)pyrene	25.526	276	10251	0.367	ng	# 95
37) Benzo(b)fluoranthene	22.693	252	8842	0.379	ng	100
38) Benzo(k)fluoranthene	22.737	252	9995	0.401	ng	99
39) Benzo(a)pyrene	23.252	252	7817	0.376	ng	97
40) Dibenzo(a,h)anthracene	25.544	278	8118	0.378	ng	98
41) Benzo(g,h,i)perylene	26.190	276	9826	0.383	ng	99

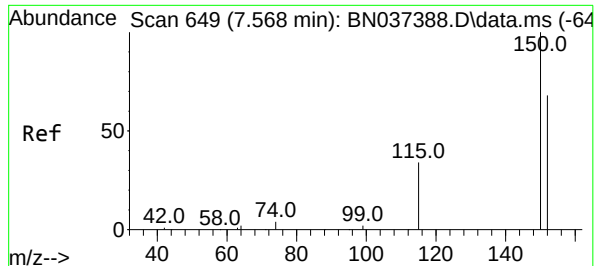
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062725\
Data File : BN037417.D
Acq On : 27 Jun 2025 10:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Jun 27 10:47:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

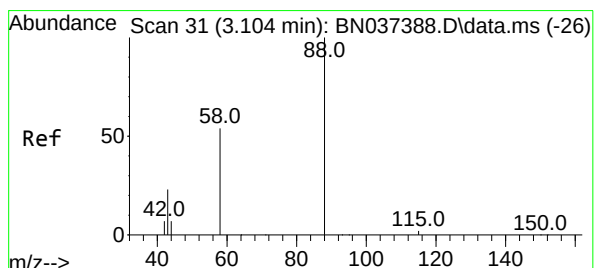
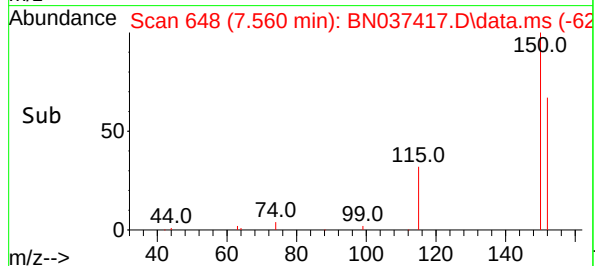
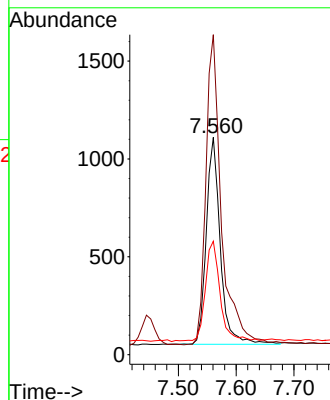
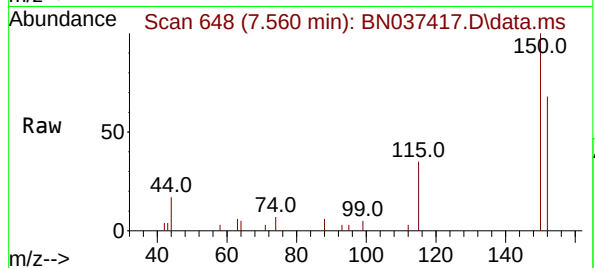




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

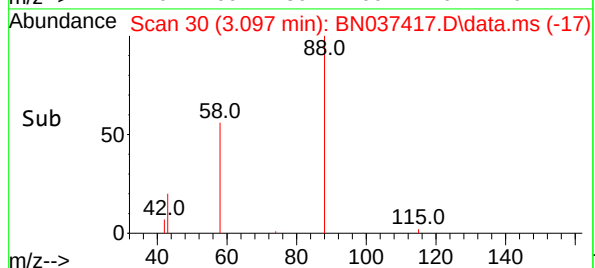
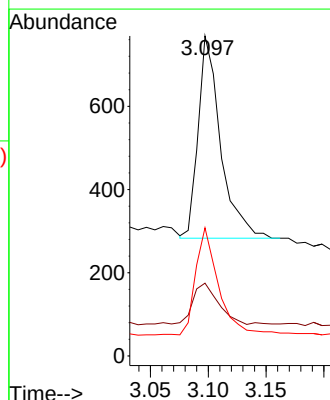
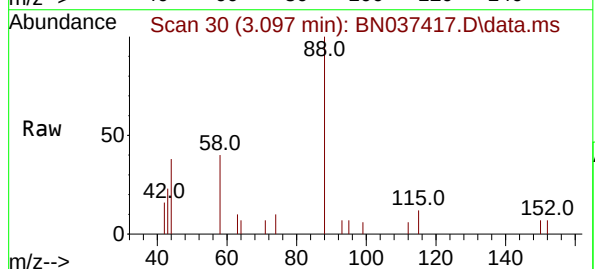
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

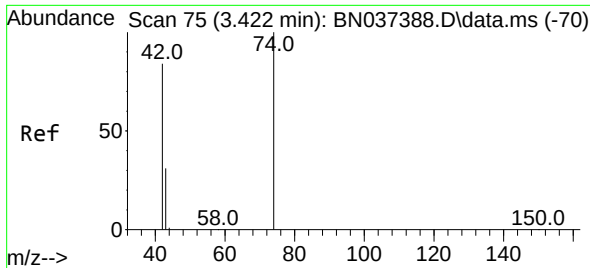
Tgt Ion:152 Resp: 1790
Ion Ratio Lower Upper
152 100
150 147.3 116.2 174.2
115 52.3 42.9 64.3



#2
1,4-Dioxane
Concen: 0.387 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

Tgt Ion: 88 Resp: 657
Ion Ratio Lower Upper
88 100
43 22.7 21.6 32.4
58 54.0 45.9 68.9

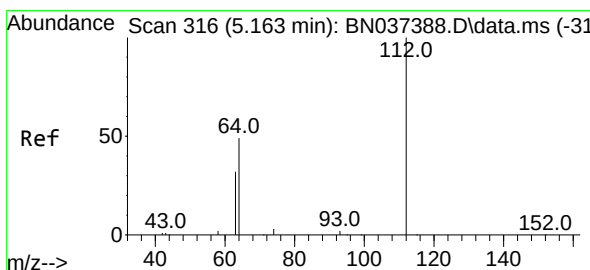
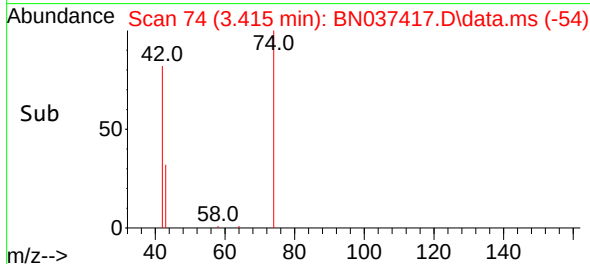
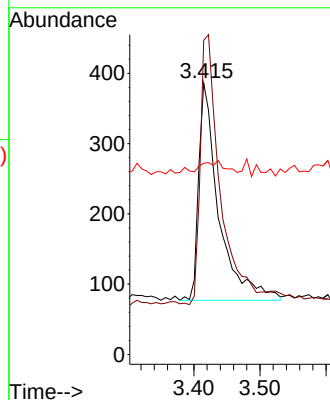
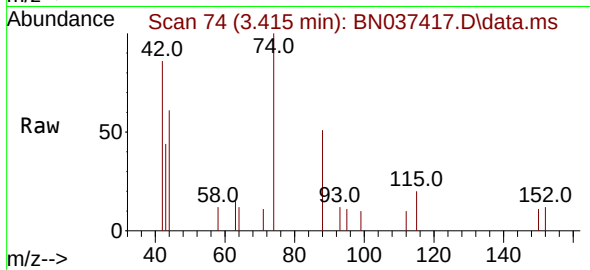




#3
n-Nitrosodimethylamine
Concen: 0.391 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

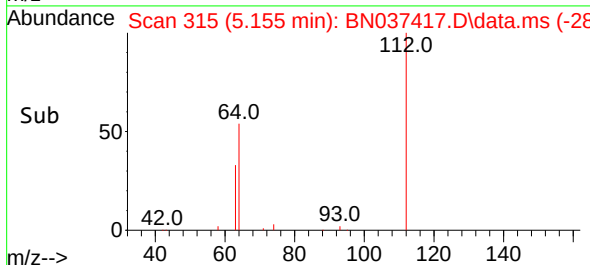
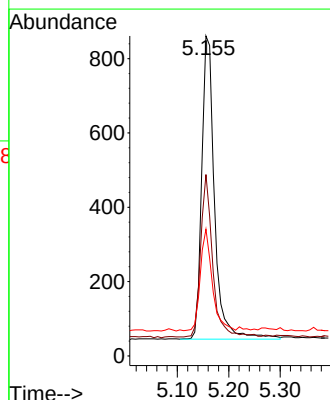
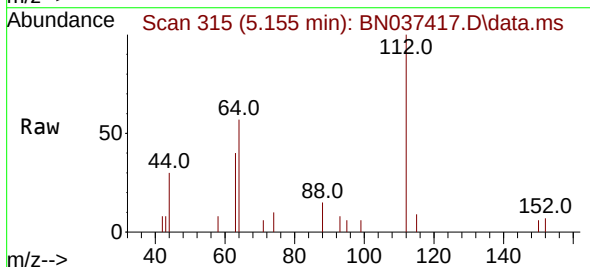
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

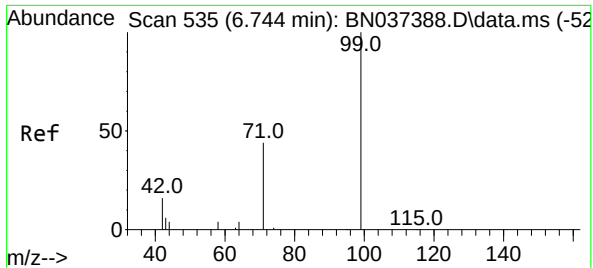
Tgt Ion: 42 Resp: 655
Ion Ratio Lower Upper
42 100
74 121.8 97.8 146.8
44 0.0 8.7 13.1#



#4
2-Fluorophenol
Concen: 0.412 ng
RT: 5.155 min Scan# 315
Delta R.T. -0.007 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

Tgt Ion: 112 Resp: 1420
Ion Ratio Lower Upper
112 100
64 49.9 40.3 60.5
63 30.8 26.1 39.1

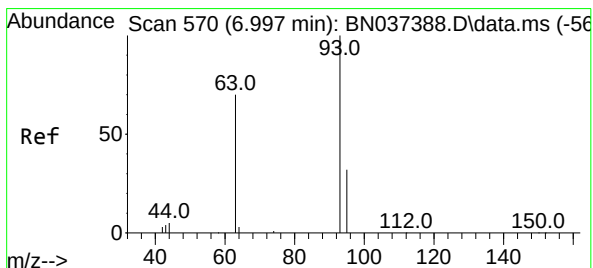
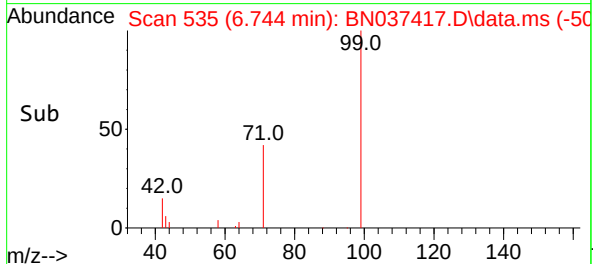
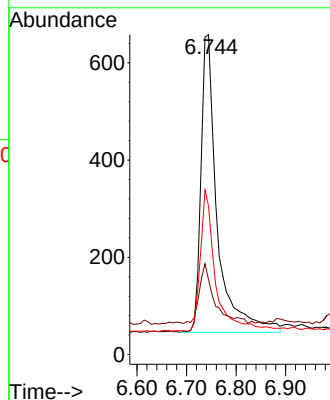
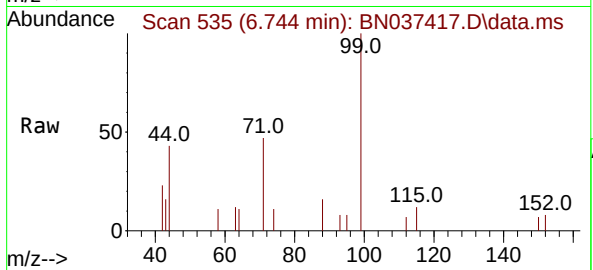




#5
Phenol-d6
Concen: 0.392 ng
RT: 6.744 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

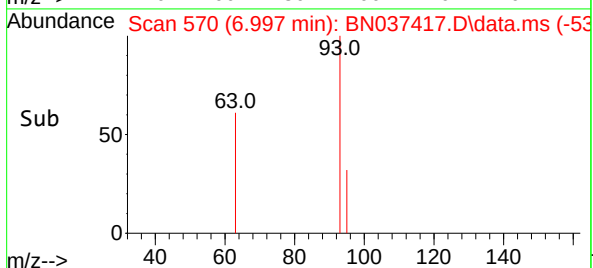
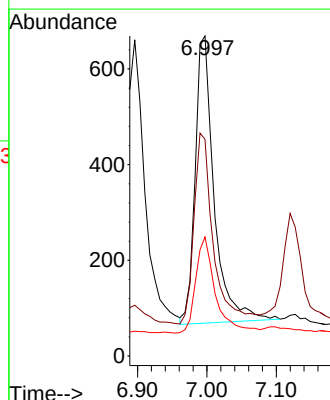
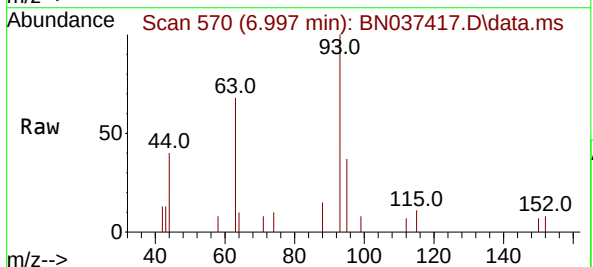
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

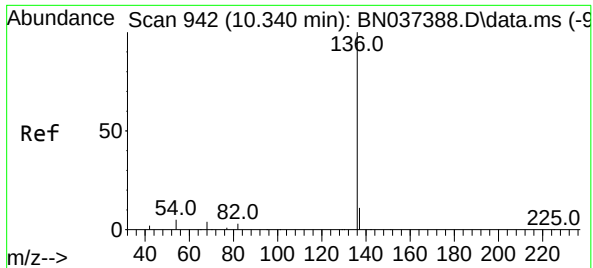
Tgt Ion: 99 Resp: 1401
Ion Ratio Lower Upper
99 100
42 18.3 15.6 23.4
71 44.2 35.8 53.8



#6
bis(2-Chloroethyl)ether
Concen: 0.358 ng
RT: 6.997 min Scan# 570
Delta R.T. -0.000 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

Tgt Ion: 93 Resp: 1138
Ion Ratio Lower Upper
93 100
63 68.2 49.6 74.4
95 34.9 23.9 35.9

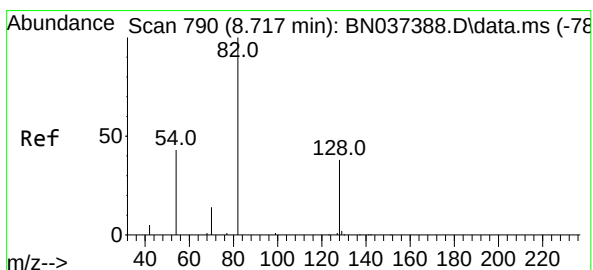
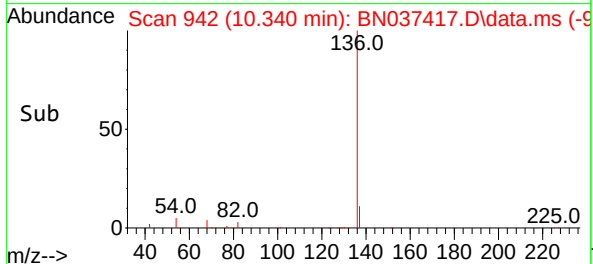
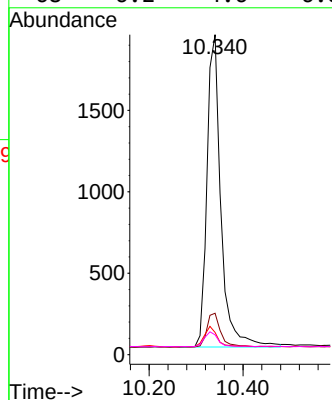
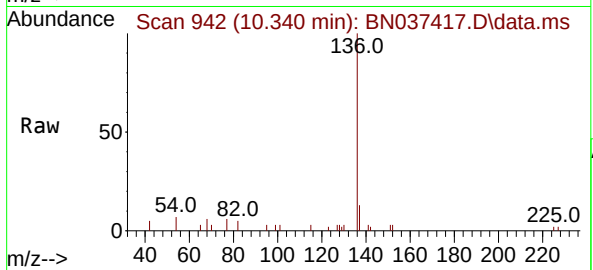




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.000 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

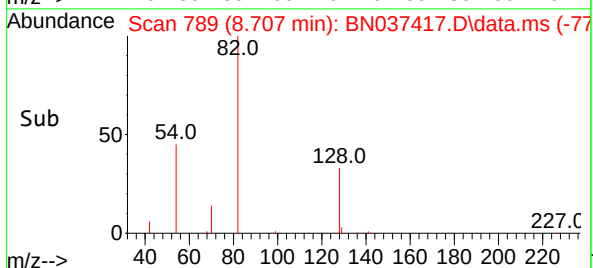
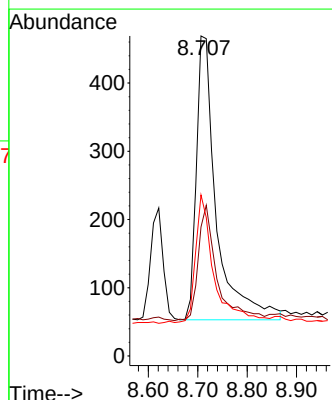
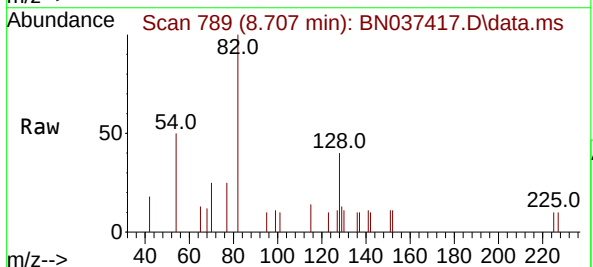
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

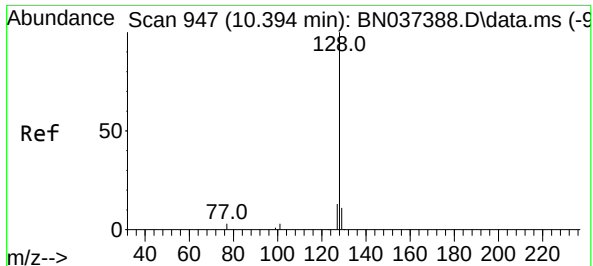
Tgt Ion:	136	Resp:	3949
Ion	Ratio	Lower	Upper
136	100		
137	12.9	10.4	15.6
54	7.0	5.6	8.4
68	6.2	4.6	6.8



#8
Nitrobenzene-d5
Concen: 0.370 ng
RT: 8.707 min Scan# 789
Delta R.T. -0.011 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

Tgt Ion:	82	Resp:	1172
Ion	Ratio	Lower	Upper
82	100		
128	40.3	34.0	51.0
54	50.3	37.7	56.5

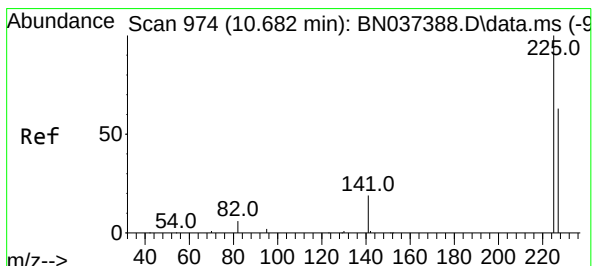
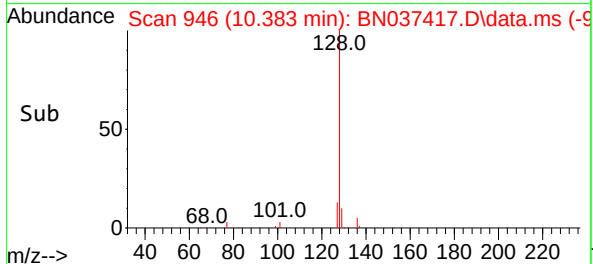
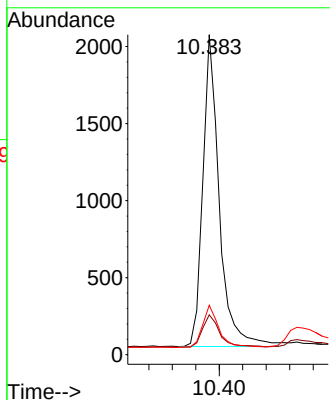
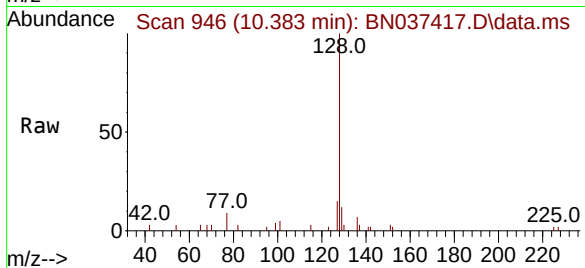




#9
Naphthalene
Concen: 0.388 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.011 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

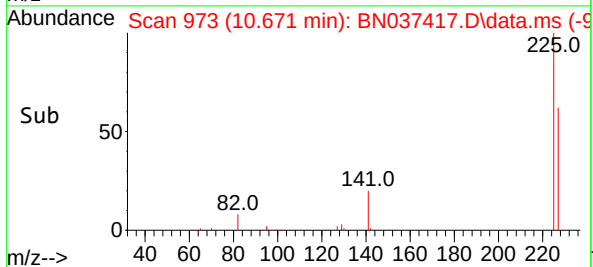
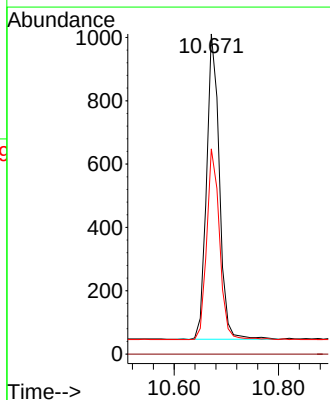
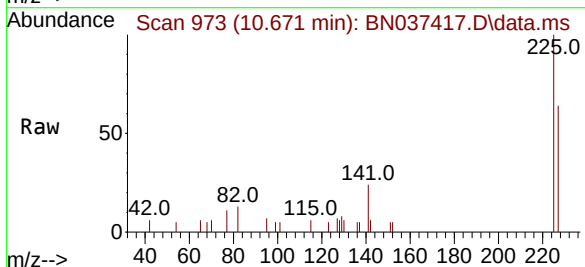
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

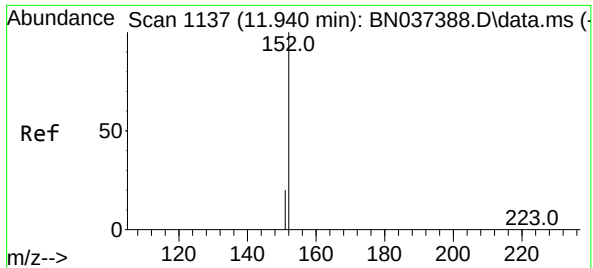
Tgt Ion:	128	Resp:	3943
Ion	Ratio	Lower	Upper
128	100		
129	12.5	10.4	15.6
127	15.5	12.2	18.4



#10
Hexachlorobutadiene
Concen: 0.405 ng
RT: 10.671 min Scan# 973
Delta R.T. -0.011 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

Tgt Ion:	225	Resp:	1635
Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.6	49.9	74.9

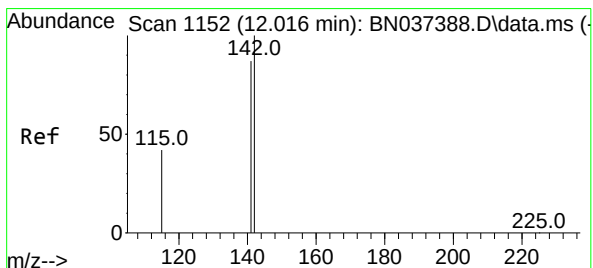
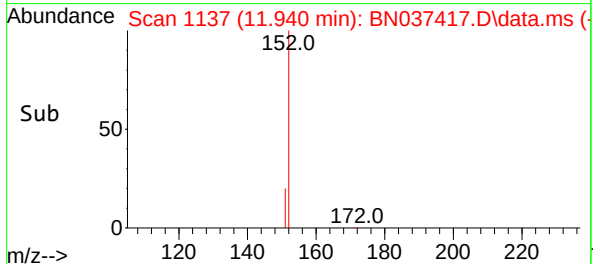
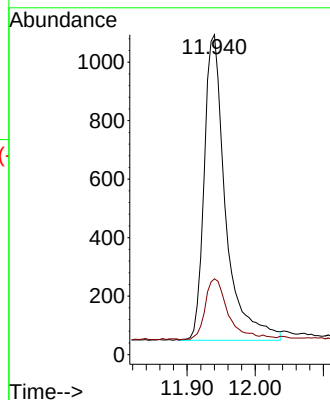
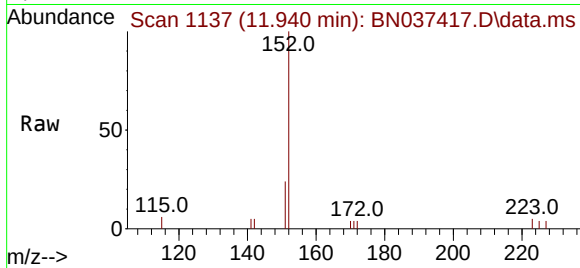




#11
2-Methylnaphthalene-d10
Concen: 0.374 ng
RT: 11.940 min Scan# 1137
Delta R.T. -0.000 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

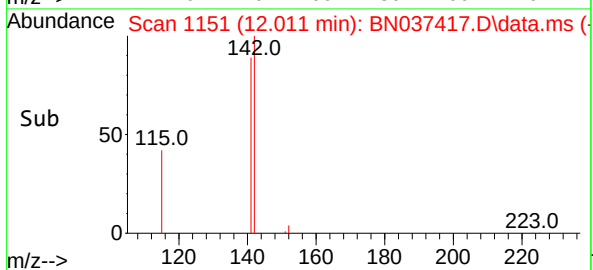
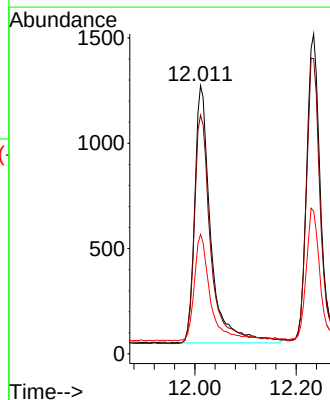
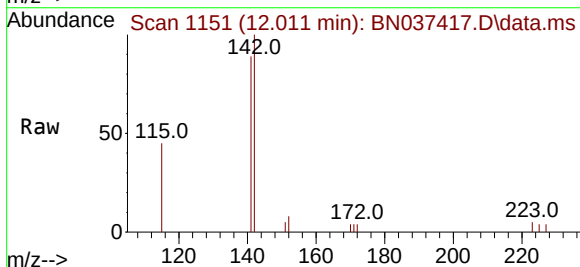
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

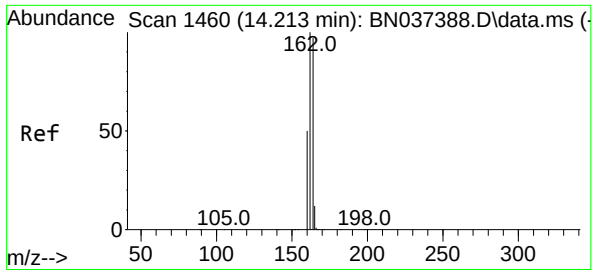
Tgt Ion:152 Resp: 2284
Ion Ratio Lower Upper
152 100
151 21.1 18.4 27.6



#12
2-Methylnaphthalene
Concen: 0.386 ng
RT: 12.011 min Scan# 1151
Delta R.T. -0.005 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

Tgt Ion:142 Resp: 2704
Ion Ratio Lower Upper
142 100
141 89.0 70.1 105.1
115 44.6 35.8 53.6

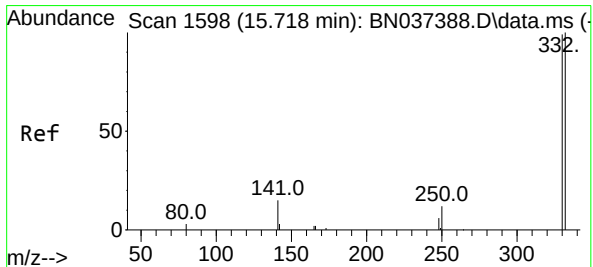
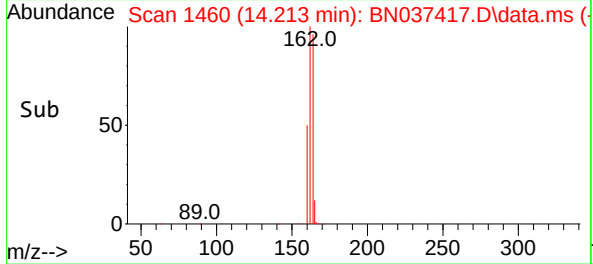
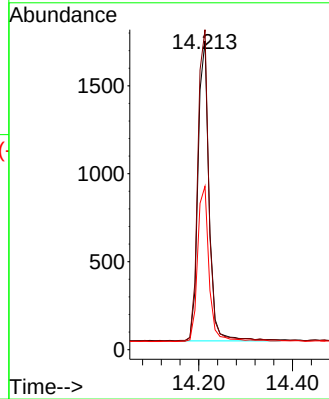
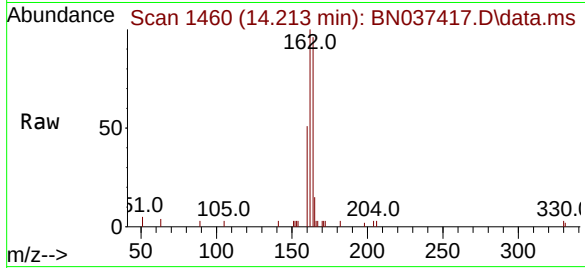




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

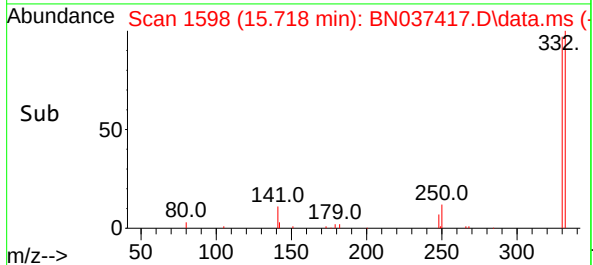
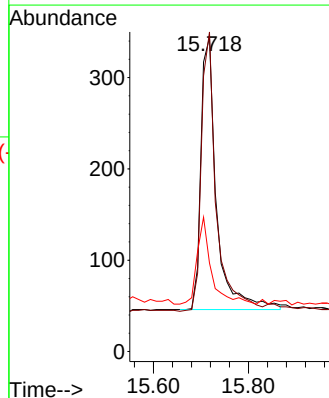
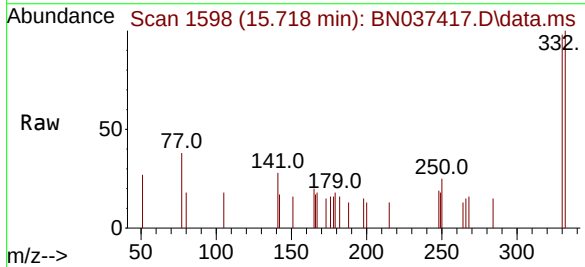
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

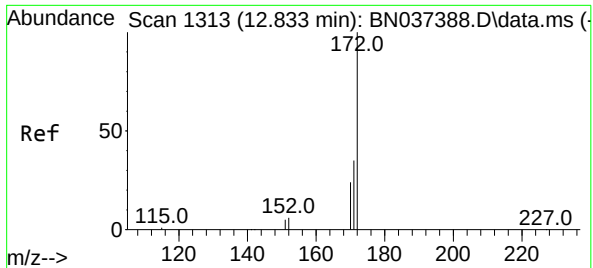
Tgt Ion:	164	Resp:	2792
Ion	Ratio	Lower	Upper
164	100		
162	103.6	82.6	123.8
160	52.9	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.418 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

Tgt Ion:	330	Resp:	684
Ion	Ratio	Lower	Upper
330	100		
332	97.7	77.8	116.8
141	28.5	24.0	36.0

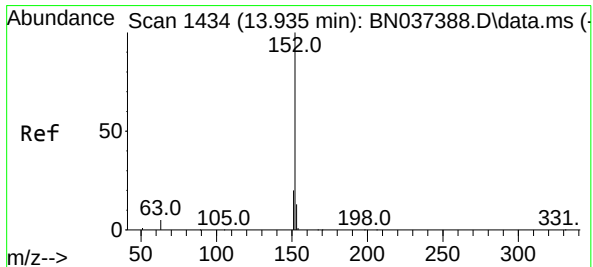
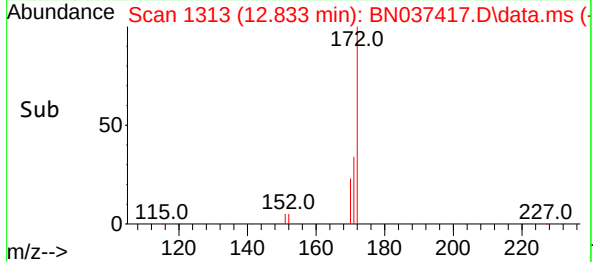
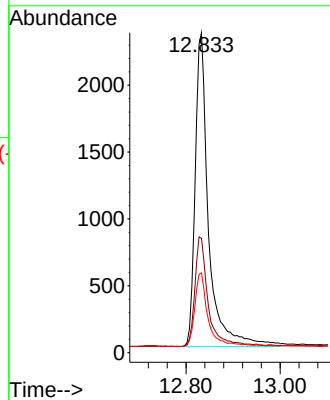
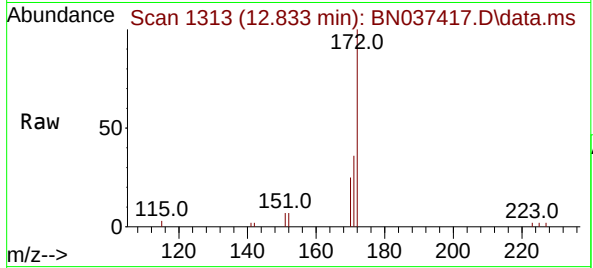




#15
2-Fluorobiphenyl
Concen: 0.387 ng
RT: 12.833 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

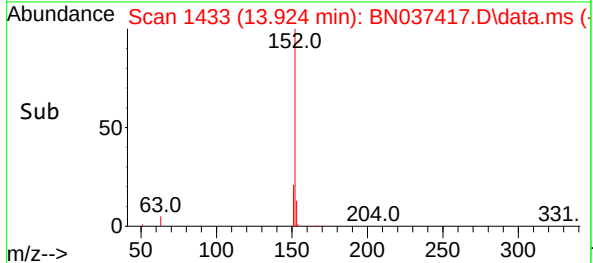
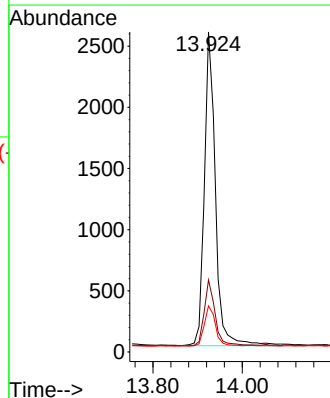
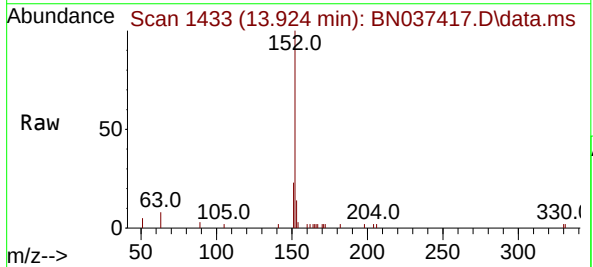
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

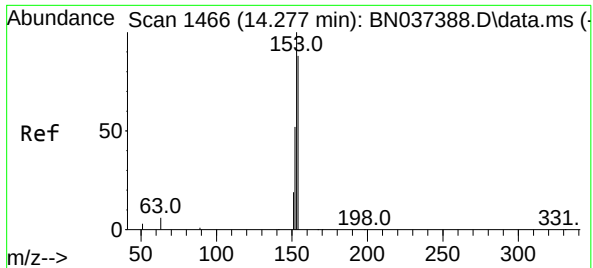
Tgt Ion:	172	Resp:	4660
Ion Ratio	Lower	Upper	
172	100		
171	35.7	28.8	43.2
170	24.9	20.3	30.5



#16
Acenaphthylene
Concen: 0.381 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

Tgt Ion:	152	Resp:	4415
Ion Ratio	Lower	Upper	
152	100		
151	20.5	15.8	23.6
153	13.5	10.3	15.5

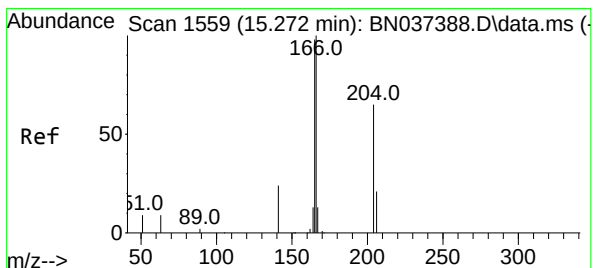
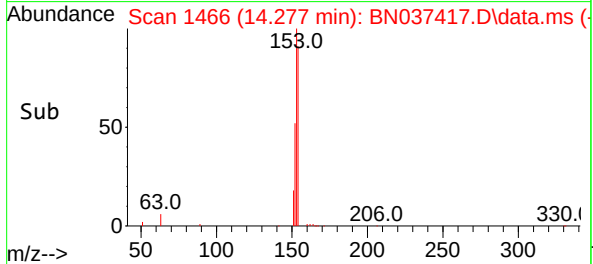
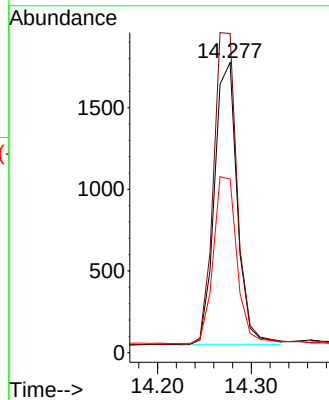
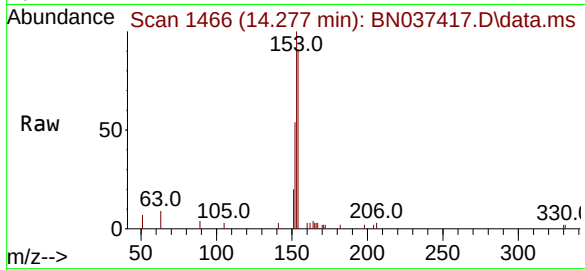




#17
Acenaphthene
Concen: 0.386 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

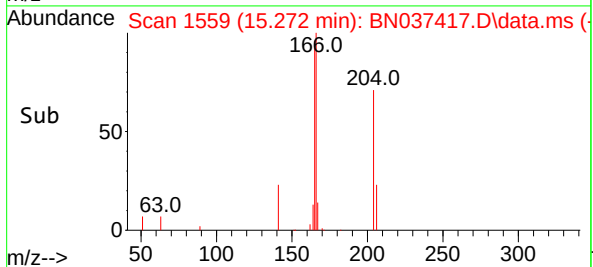
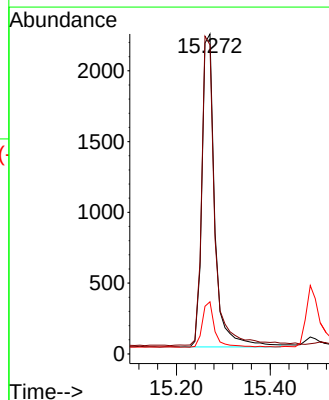
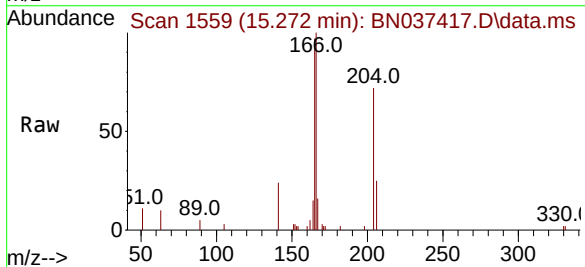
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

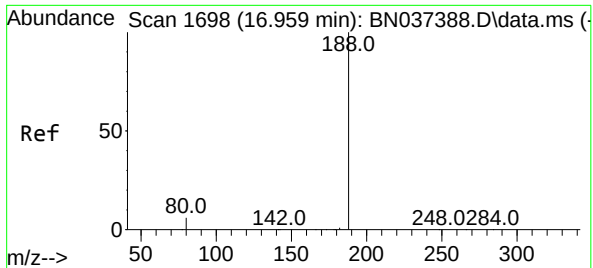
Tgt Ion:	154	Resp:	2916
Ion	Ratio	Lower	Upper
154	100		
153	116.6	94.6	141.8
152	62.4	50.2	75.2



#18
Fluorene
Concen: 0.394 ng
RT: 15.272 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

Tgt Ion:	166	Resp:	4204
Ion	Ratio	Lower	Upper
166	100		
165	100.0	79.4	119.2
167	13.7	10.6	15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.959 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037417.D

Acq: 27 Jun 2025 10:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

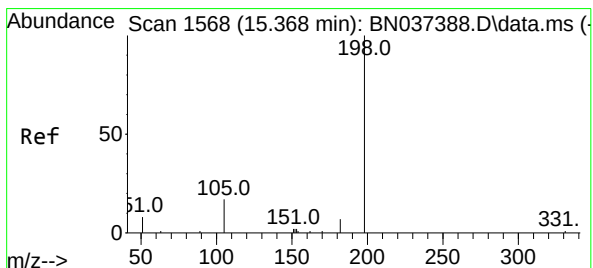
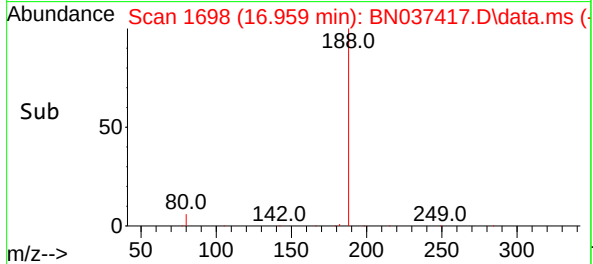
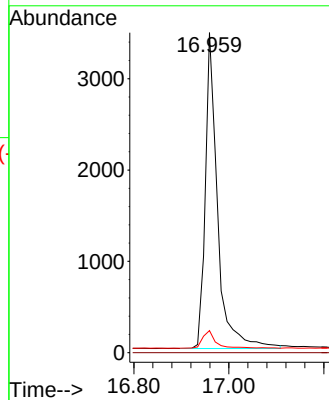
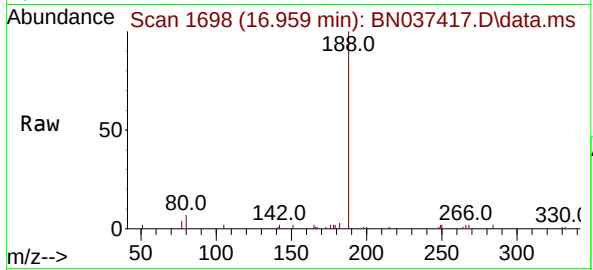
Tgt Ion:188 Resp: 6217

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.9 6.2 9.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.267 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.000 min

Lab File: BN037417.D

Acq: 27 Jun 2025 10:09

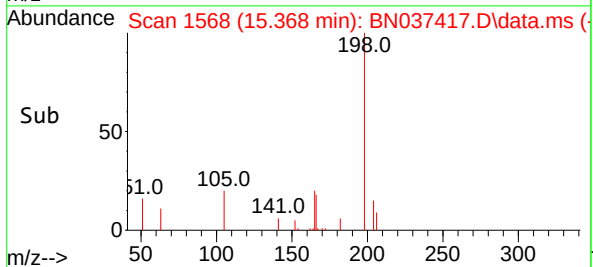
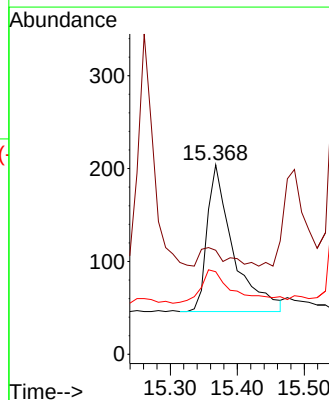
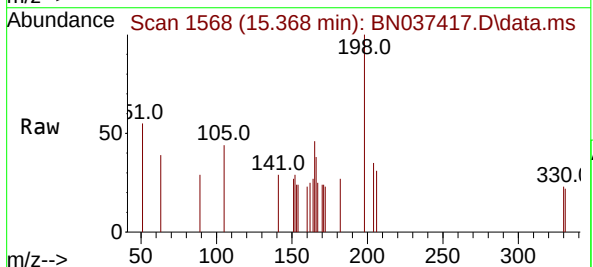
Tgt Ion:198 Resp: 427

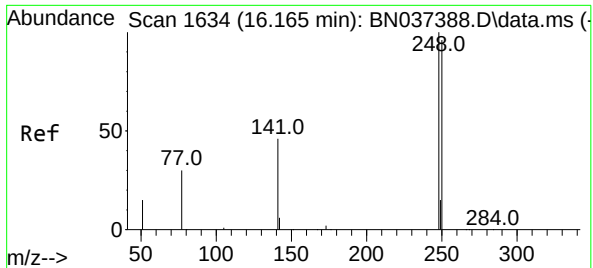
Ion Ratio Lower Upper

198 100

51 54.9 38.8 58.2

105 43.6 29.8 44.6

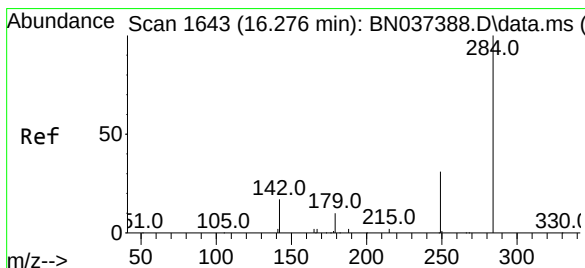
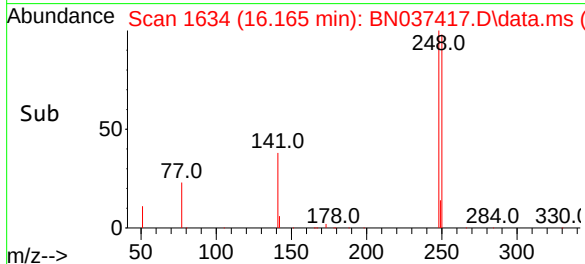
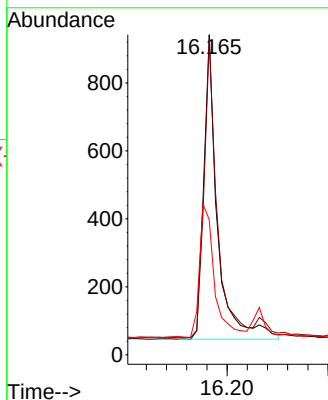
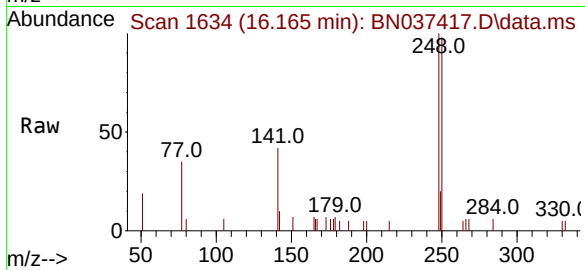




#21
4-Bromophenyl-phenylether
Concen: 0.386 ng
RT: 16.165 min Scan# 1634
Delta R.T. -0.000 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

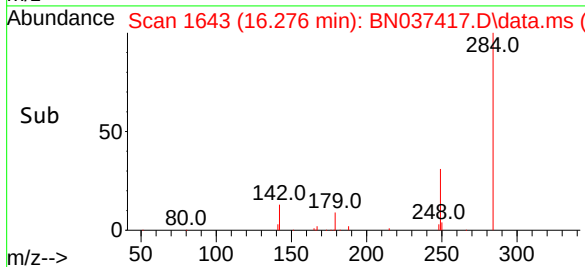
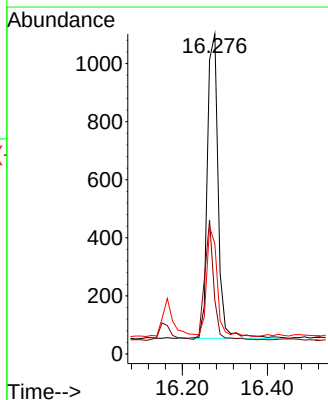
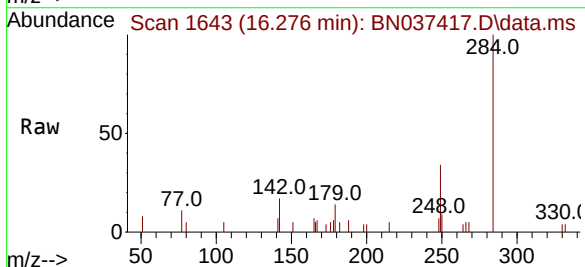
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

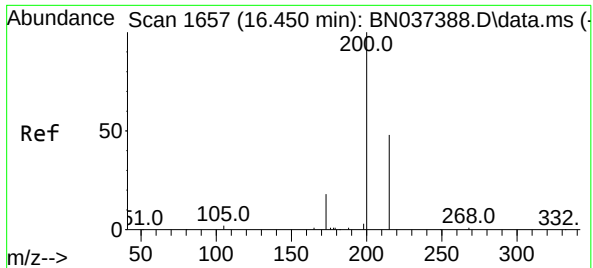
Tgt Ion	Ratio	Lower	Upper
248	100		
250	98.3	77.0	115.4
141	42.1	38.7	58.1



#22
Hexachlorobenzene
Concen: 0.390 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

Tgt Ion	Ratio	Lower	Upper
284	100		
142	33.4	27.2	40.8
249	35.4	26.7	40.1

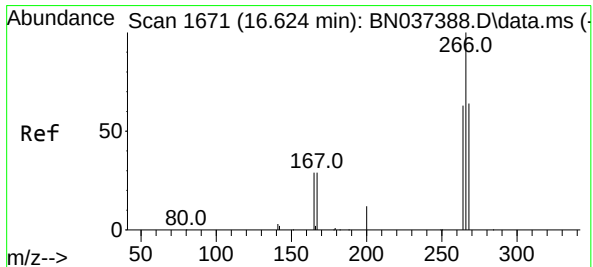
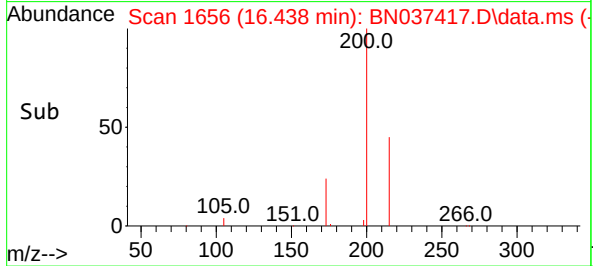
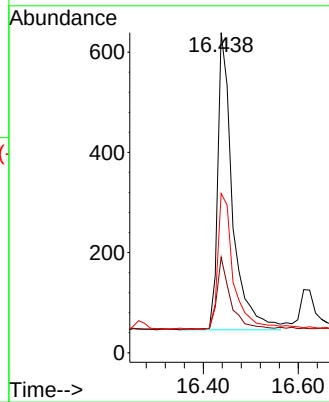
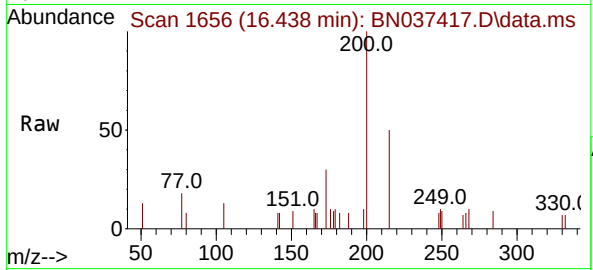




#23
Atrazine
Concen: 0.368 ng
RT: 16.438 min Scan# 1656
Delta R.T. -0.012 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

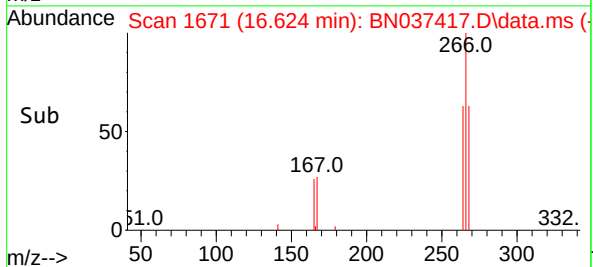
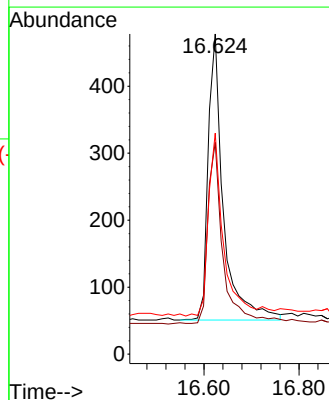
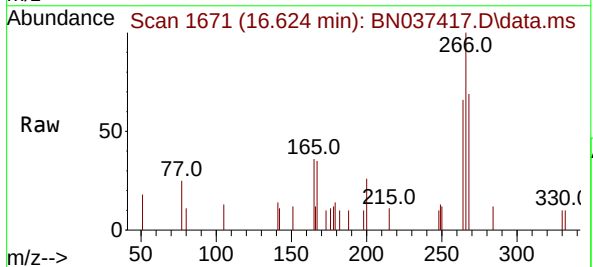
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

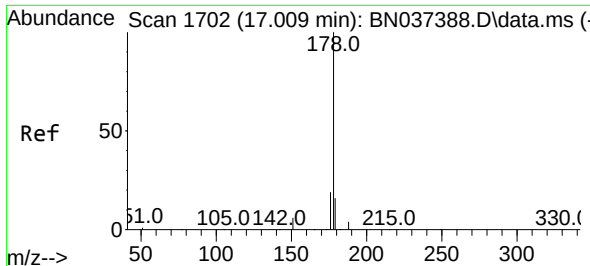
Tgt Ion:200 Resp: 1277
Ion Ratio Lower Upper
200 100
173 29.9 19.0 28.6#
215 49.8 41.3 61.9



#24
Pentachlorophenol
Concen: 0.374 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

Tgt Ion:266 Resp: 952
Ion Ratio Lower Upper
266 100
264 62.7 49.2 73.8
268 64.8 54.2 81.4

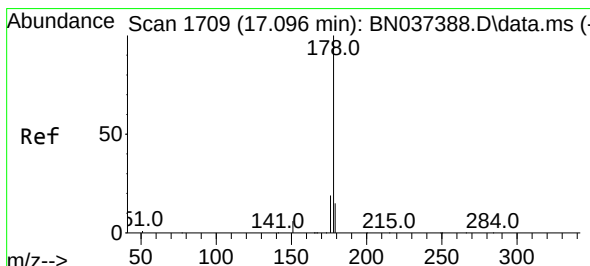
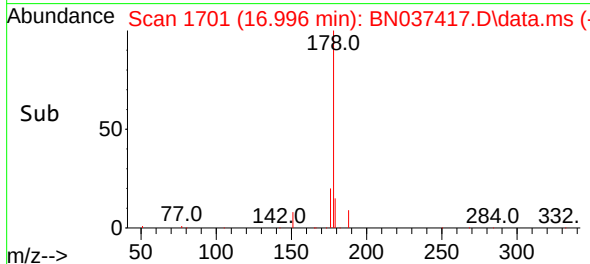
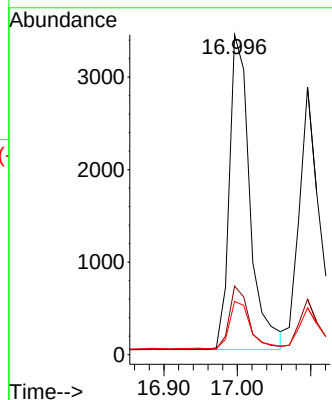
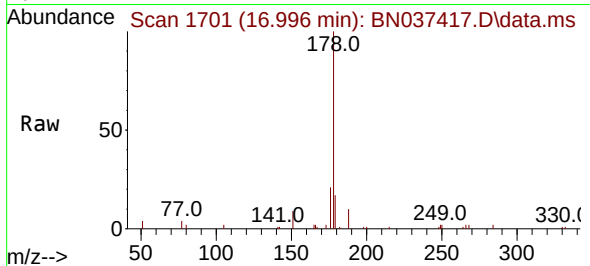




#25
Phenanthrene
Concen: 0.378 ng
RT: 16.996 min Scan# 1701
Delta R.T. -0.012 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

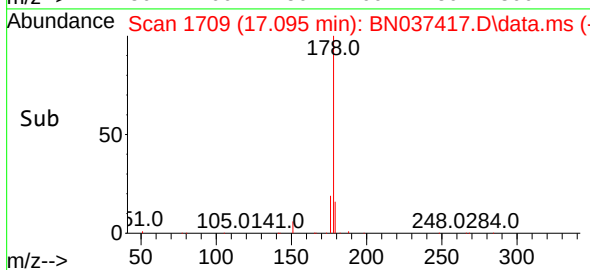
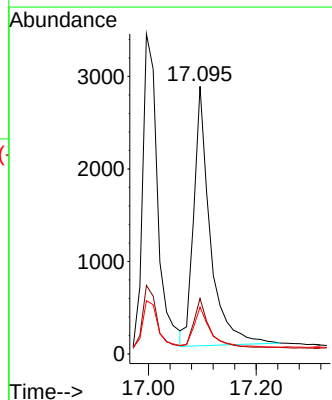
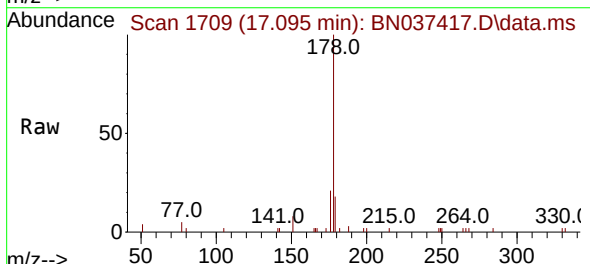
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

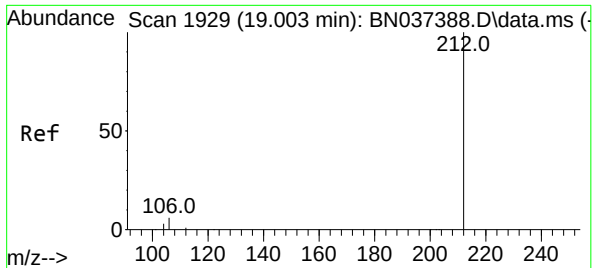
Tgt Ion:178 Resp: 6626
Ion Ratio Lower Upper
178 100
176 19.5 15.6 23.4
179 15.7 12.8 19.2



#26
Anthracene
Concen: 0.368 ng
RT: 17.095 min Scan# 1709
Delta R.T. -0.000 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

Tgt Ion:178 Resp: 5931
Ion Ratio Lower Upper
178 100
176 18.4 14.9 22.3
179 15.9 12.4 18.6

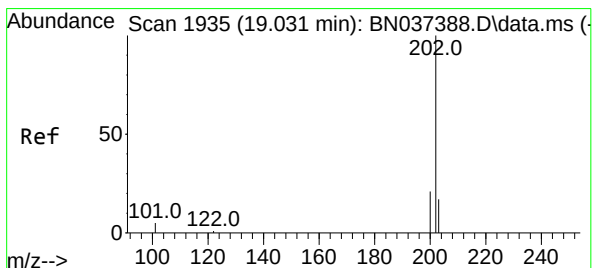
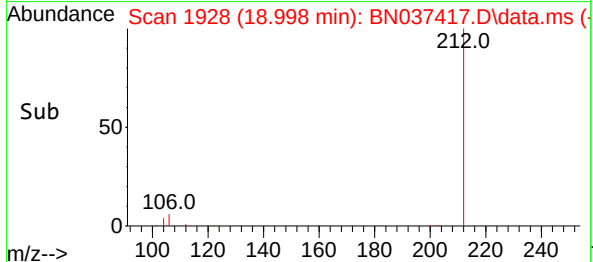
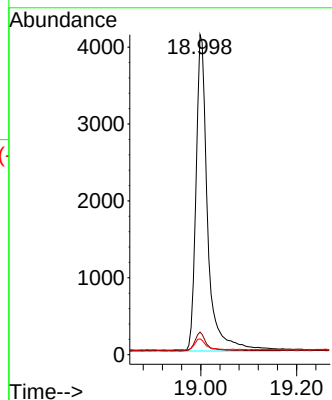
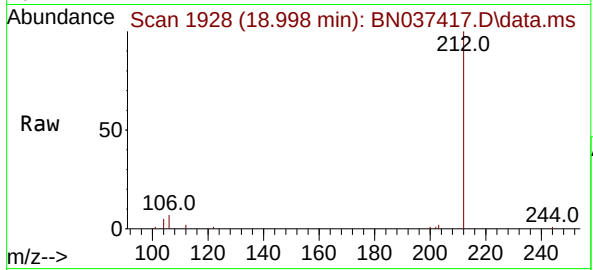




#27
Fluoranthene-d10
Concen: 0.393 ng
RT: 18.998 min Scan# 1928
Delta R.T. -0.005 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

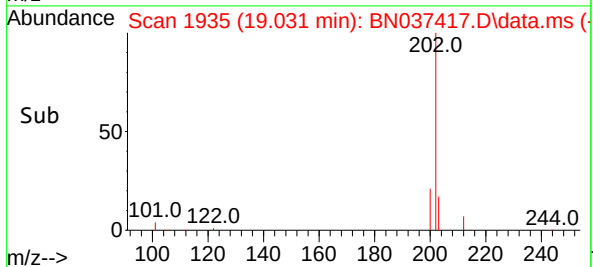
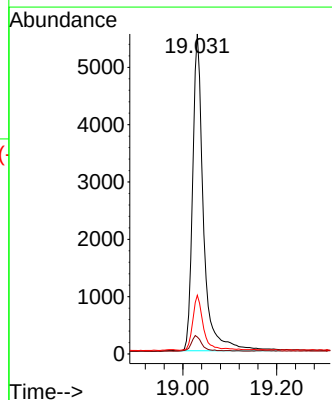
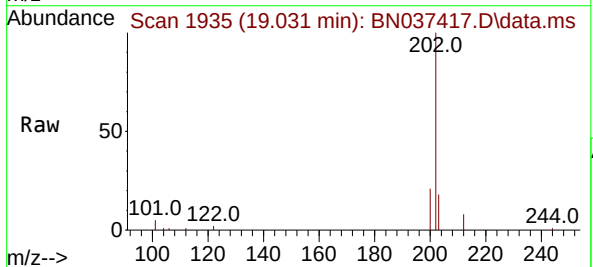
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

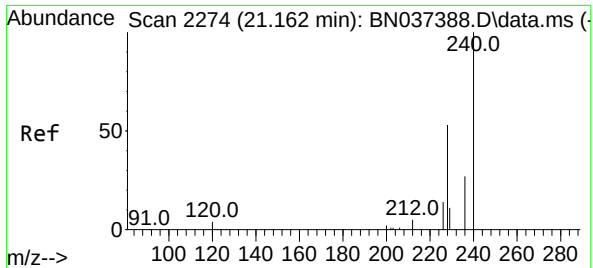
Tgt Ion:212 Resp: 7000
Ion Ratio Lower Upper
212 100
106 5.7 4.5 6.7
104 3.4 2.7 4.1



#28
Fluoranthene
Concen: 0.398 ng
RT: 19.031 min Scan# 1935
Delta R.T. -0.000 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

Tgt Ion:202 Resp: 8900
Ion Ratio Lower Upper
202 100
101 4.8 3.8 5.6
203 16.4 13.5 20.3

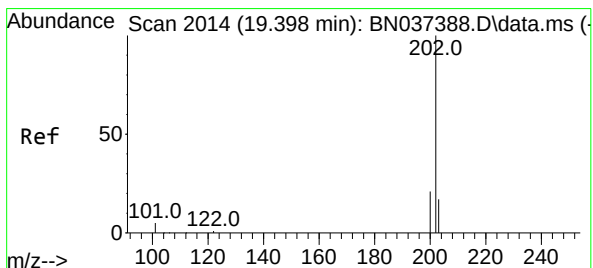
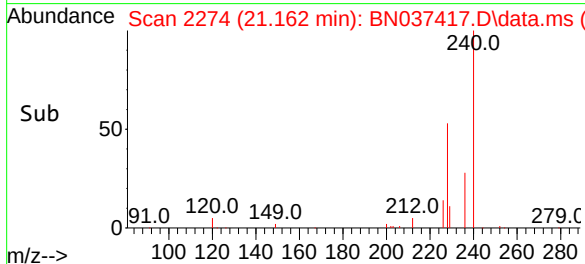
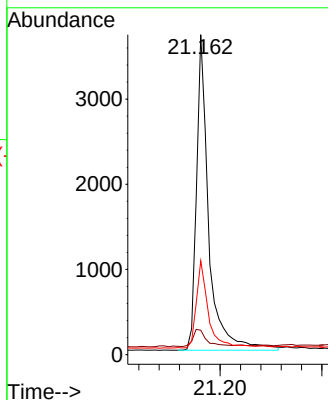
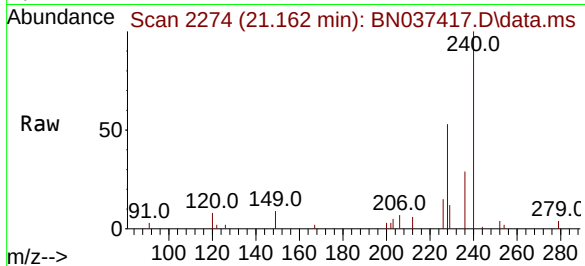




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

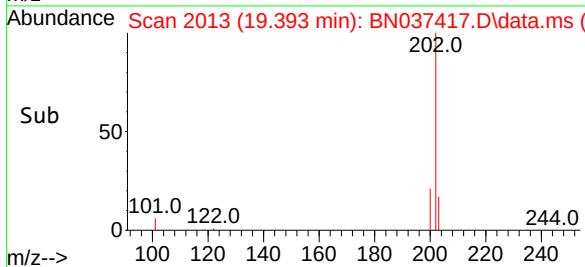
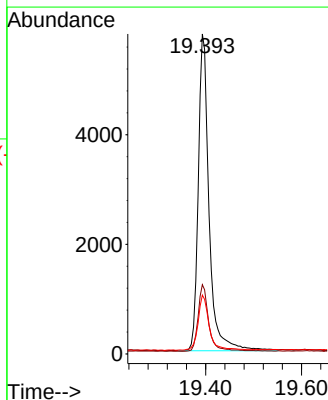
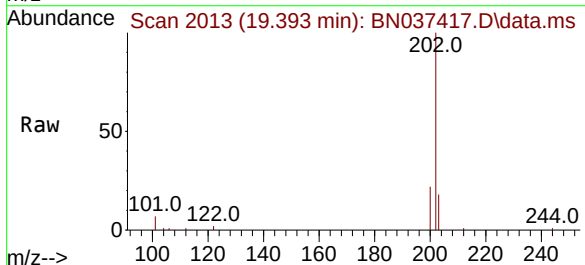
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

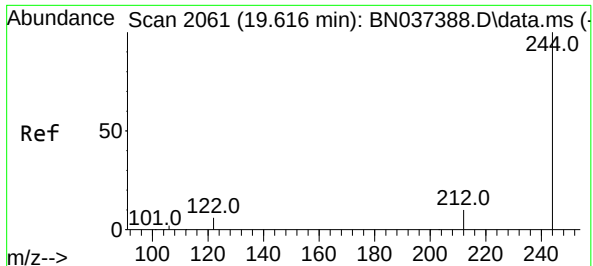
Tgt Ion:240 Resp: 6164
Ion Ratio Lower Upper
240 100
120 7.6 5.3 7.9
236 29.3 22.7 34.1



#30
Pyrene
Concen: 0.388 ng
RT: 19.393 min Scan# 2013
Delta R.T. -0.005 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

Tgt Ion:202 Resp: 9051
Ion Ratio Lower Upper
202 100
200 20.7 16.5 24.7
203 17.9 14.2 21.2

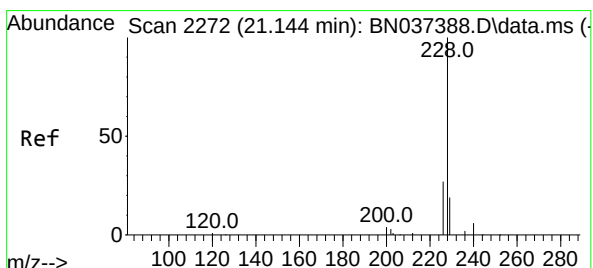
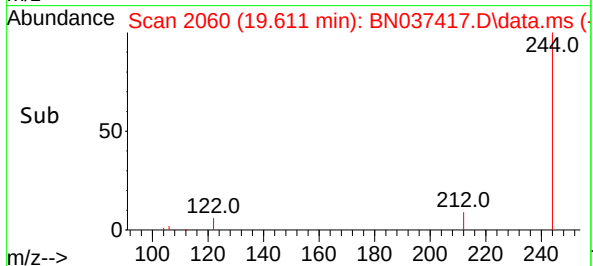
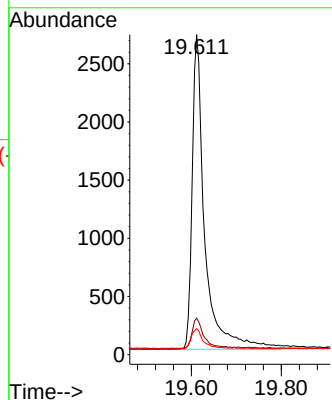
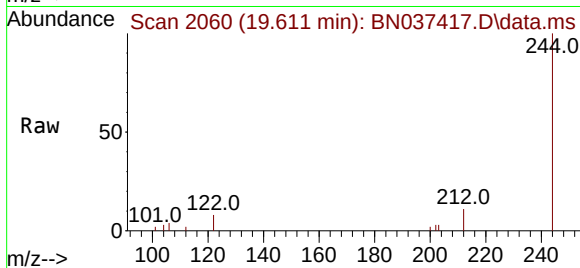




#31
 Terphenyl-d14
 Concen: 0.401 ng
 RT: 19.611 min Scan# 2061
 Delta R.T. -0.005 min
 Lab File: BN037417.D
 Acq: 27 Jun 2025 10:09

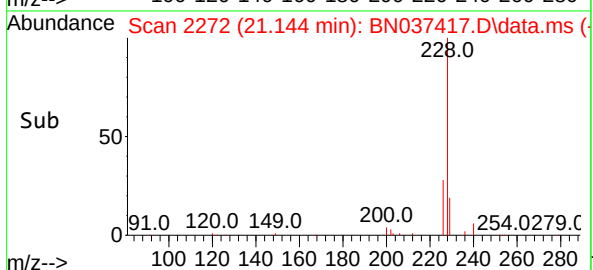
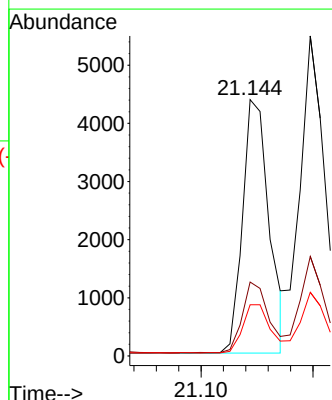
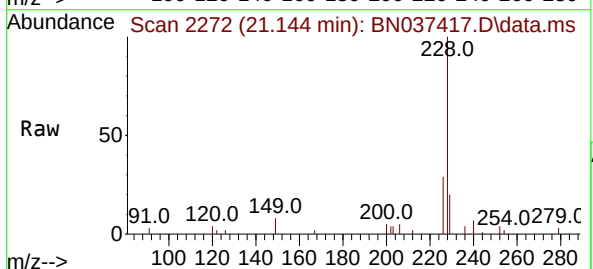
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4

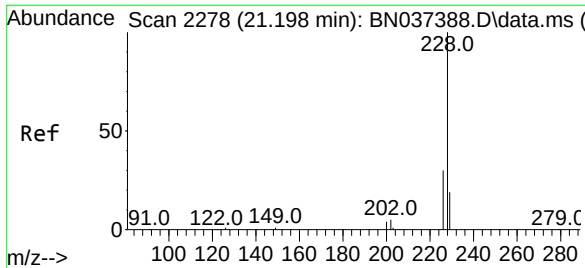
Tgt Ion:244 Resp: 5266
 Ion Ratio Lower Upper
 244 100
 212 11.4 9.1 13.7
 122 8.1 6.3 9.5



#32
 Benzo(a)anthracene
 Concen: 0.371 ng
 RT: 21.144 min Scan# 2272
 Delta R.T. -0.000 min
 Lab File: BN037417.D
 Acq: 27 Jun 2025 10:09

Tgt Ion:228 Resp: 7188
 Ion Ratio Lower Upper
 228 100
 226 28.9 22.6 34.0
 229 20.0 16.2 24.2





#33

Chrysene

Concen: 0.409 ng

RT: 21.198 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037417.D

Acq: 27 Jun 2025 10:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

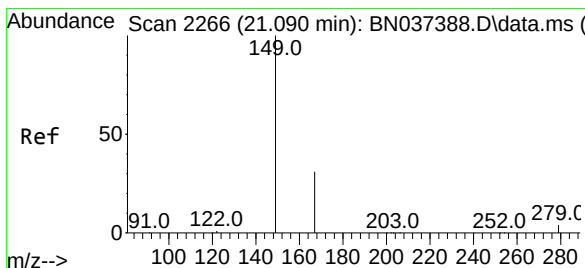
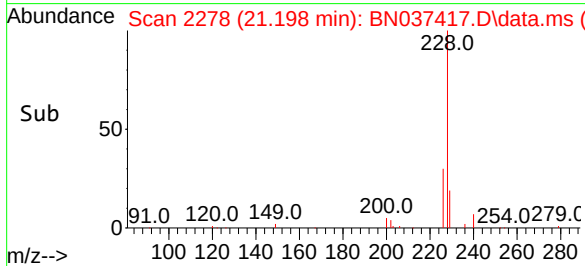
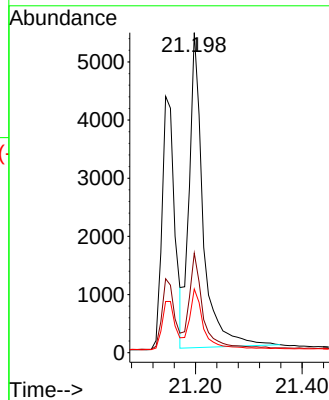
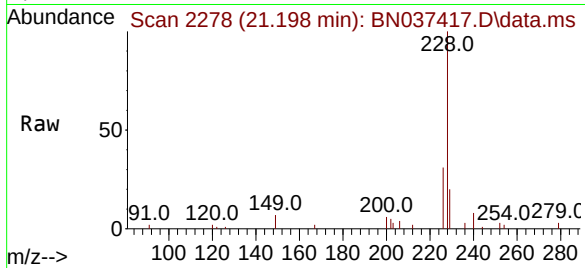
Tgt Ion:228 Resp: 9810

Ion Ratio Lower Upper

228 100

226 31.1 24.5 36.7

229 19.9 16.1 24.1



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.405 ng

RT: 21.090 min Scan# 2266

Delta R.T. -0.000 min

Lab File: BN037417.D

Acq: 27 Jun 2025 10:09

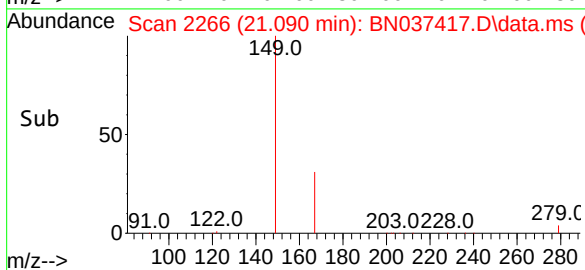
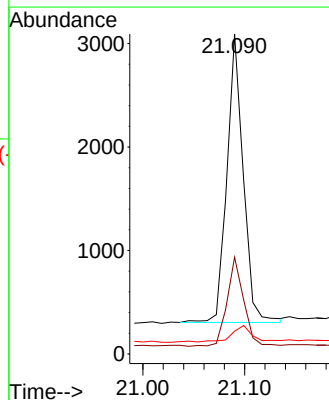
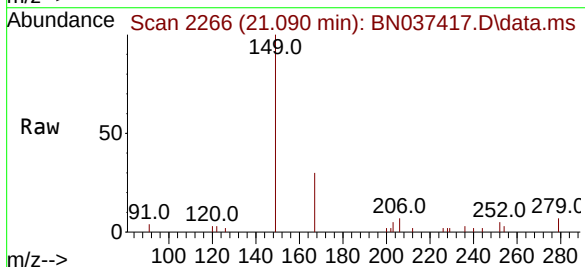
Tgt Ion:149 Resp: 3108

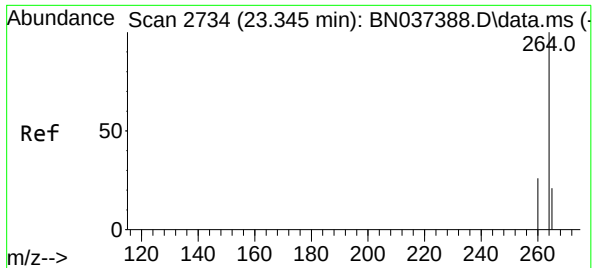
Ion Ratio Lower Upper

149 100

167 31.5 24.8 37.2

279 6.5 5.0 7.6



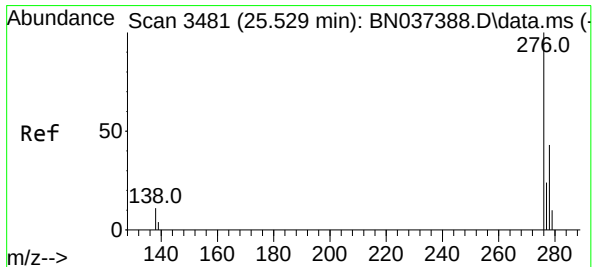
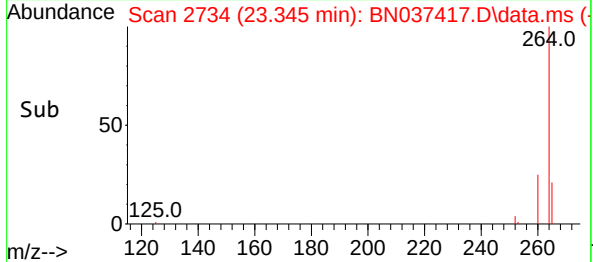
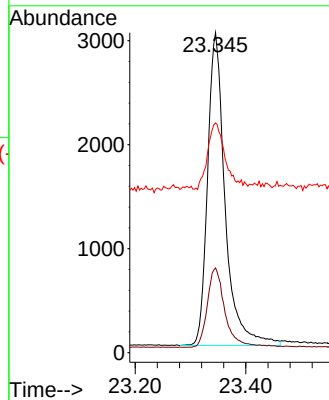
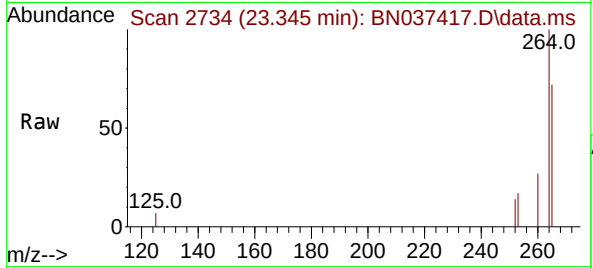


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.345 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 6622

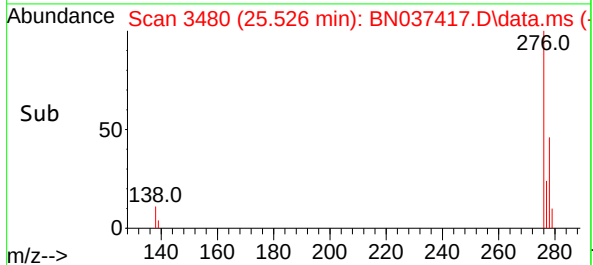
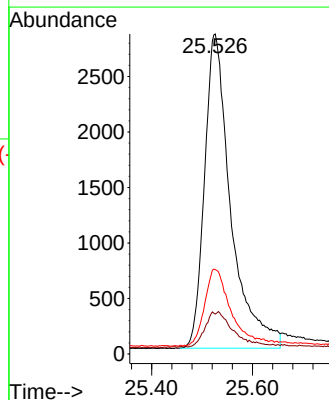
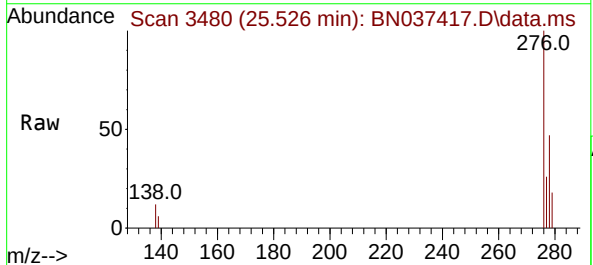
Ion	Ratio	Lower	Upper
264	100		
260	26.5	21.4	32.0
265	71.8	56.2	84.4

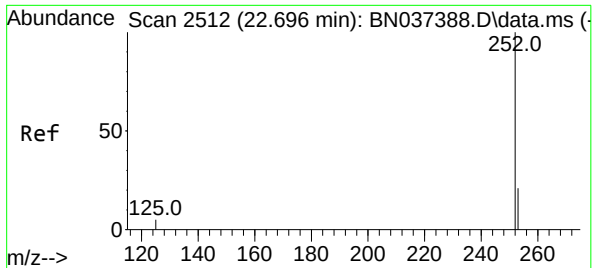


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.367 ng
RT: 25.526 min Scan# 3480
Delta R.T. -0.003 min
Lab File: BN037417.D
Acq: 27 Jun 2025 10:09

Tgt Ion:276 Resp: 10251

Ion	Ratio	Lower	Upper
276	100		
138	4.5	8.5	12.7#
277	24.6	19.7	29.5





#37

Benzo(b)fluoranthene

Concen: 0.379 ng

RT: 22.693 min Scan# 2511

Delta R.T. -0.003 min

Lab File: BN037417.D

Acq: 27 Jun 2025 10:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

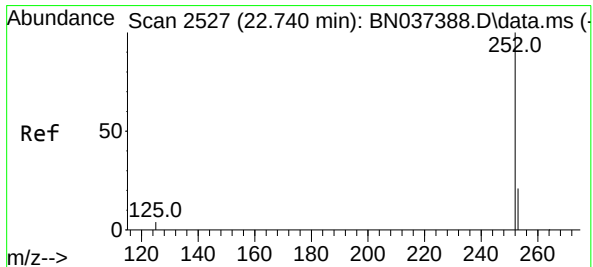
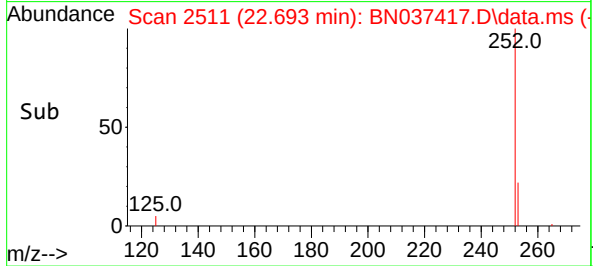
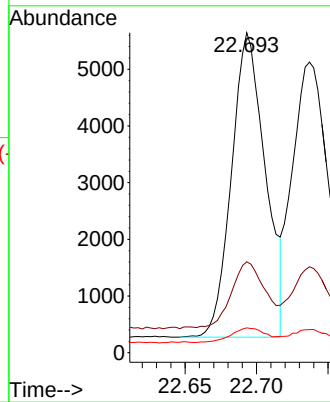
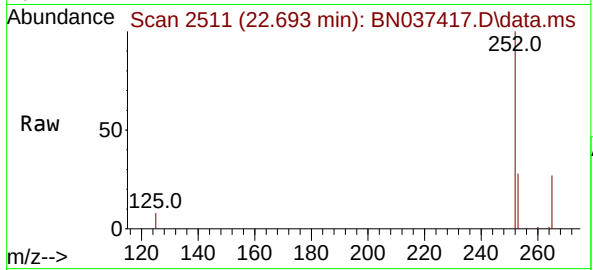
Tgt Ion:252 Resp: 8842

Ion Ratio Lower Upper

252 100

253 28.4 22.8 34.2

125 7.8 6.2 9.4



#38

Benzo(k)fluoranthene

Concen: 0.401 ng

RT: 22.737 min Scan# 2526

Delta R.T. -0.003 min

Lab File: BN037417.D

Acq: 27 Jun 2025 10:09

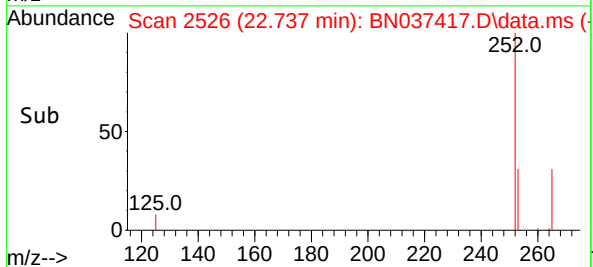
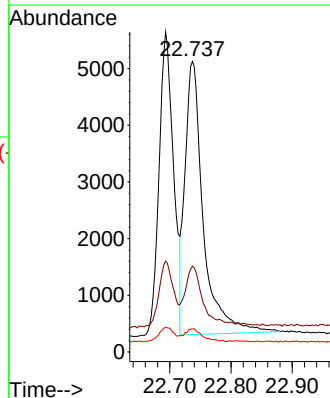
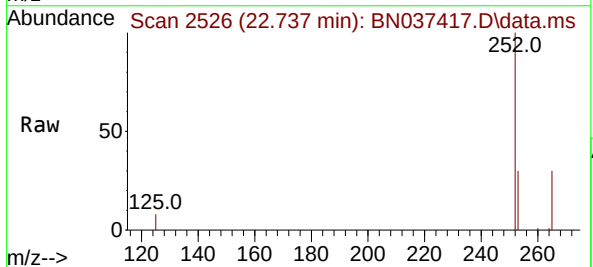
Tgt Ion:252 Resp: 9995

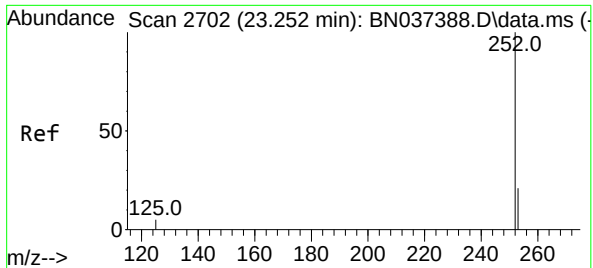
Ion Ratio Lower Upper

252 100

253 29.6 23.2 34.8

125 7.9 6.0 9.0





#39

Benzo(a)pyrene

Concen: 0.376 ng

RT: 23.252 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037417.D

Acq: 27 Jun 2025 10:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4

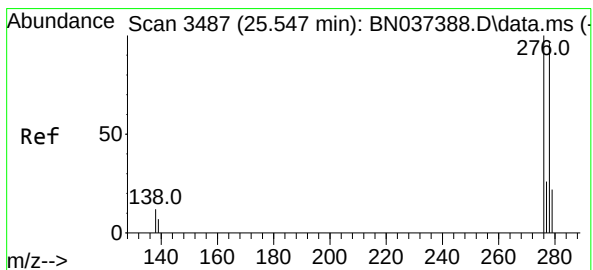
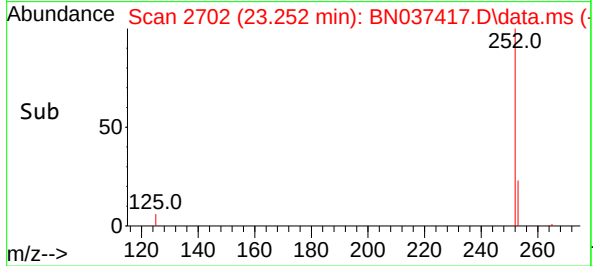
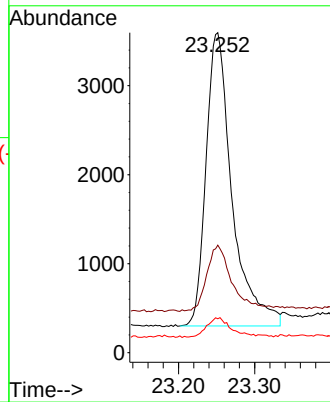
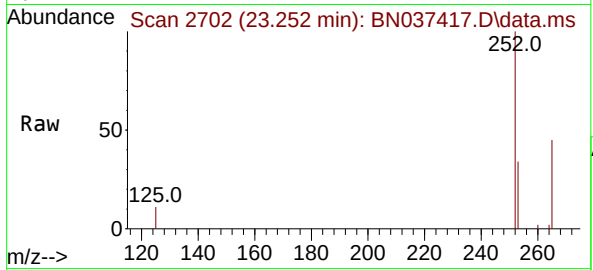
Tgt Ion:252 Resp: 7817

Ion Ratio Lower Upper

252 100

253 33.6 25.6 38.4

125 10.6 7.5 11.3



#40

Dibenzo(a,h)anthracene

Concen: 0.378 ng

RT: 25.544 min Scan# 3486

Delta R.T. -0.003 min

Lab File: BN037417.D

Acq: 27 Jun 2025 10:09

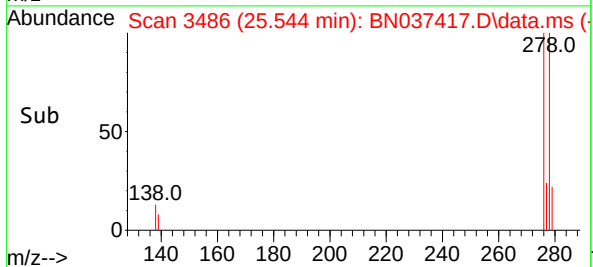
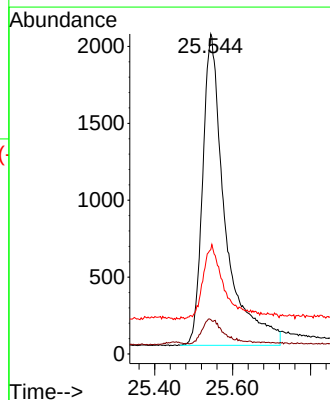
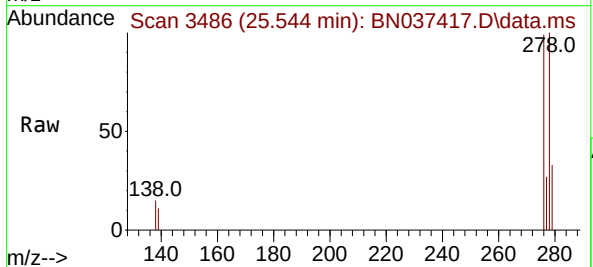
Tgt Ion:278 Resp: 8118

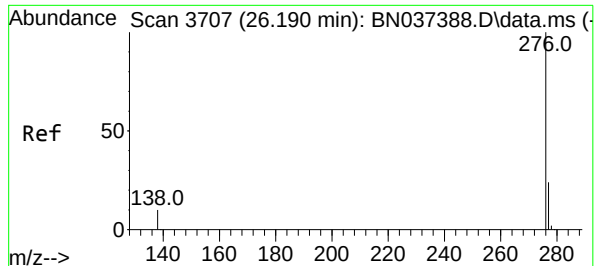
Ion Ratio Lower Upper

278 100

139 10.8 8.5 12.7

279 32.6 27.5 41.3





#41

Benzo(g,h,i)perylene

Concen: 0.383 ng

RT: 26.190 min Scan# 31

Delta R.T. -0.000 min

Lab File: BN037417.D

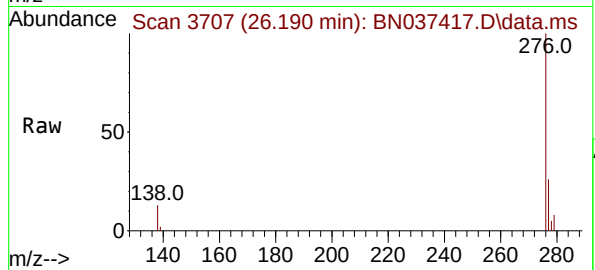
Acq: 27 Jun 2025 10:09

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4



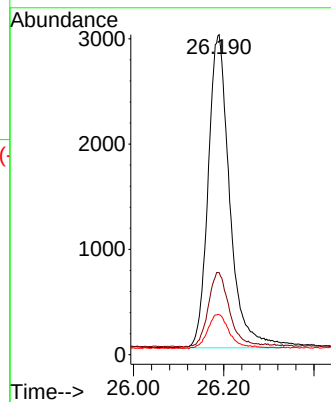
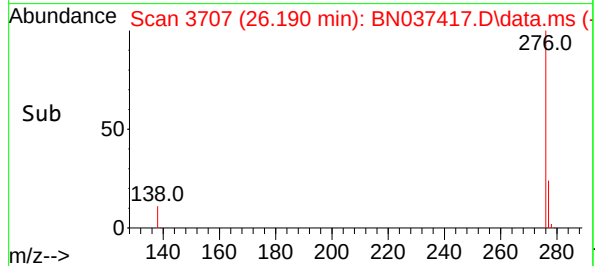
Tgt Ion:276 Resp: 9826

Ion Ratio Lower Upper

276 100

277 25.7 21.0 31.4

138 12.5 9.6 14.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062725\
Data File : BN037417.D
Acq On : 27 Jun 2025 10:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 27 10:47:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 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	85	0.00
2	1,4-Dioxane	0.379	0.367	3.2	84	0.00
3	n-Nitrosodimethylamine	0.375	0.366	2.4	83	0.00
4 S	2-Fluorophenol	0.771	0.793	-2.9	83	0.00
5 S	Phenol-d6	0.799	0.783	2.0	81	0.00
6	bis(2-Chloroethyl)ether	0.711	0.636	10.5	75	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	87	0.00
8 S	Nitrobenzene-d5	0.321	0.297	7.5	83	-0.01
9	Naphthalene	1.030	0.998	3.1	86	-0.01
10	Hexachlorobutadiene	0.409	0.414	-1.2	87	-0.01
11 SURR	2-Methylnaphthalene-d10	0.619	0.578	6.6	87	0.00
12	2-Methylnaphthalene	0.709	0.685	3.4	87	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	92	0.00
14 S	2,4,6-Tribromophenol	0.235	0.245	-4.3	94	0.00
15 S	2-Fluorobiphenyl	1.727	1.669	3.4	89	0.00
16	Acenaphthylene	1.659	1.581	4.7	92	-0.01
17	Acenaphthene	1.083	1.044	3.6	92	0.00
18	Fluorene	1.530	1.506	1.6	93	0.00
19 I	Phenanthrene-d10	1.000	1.000	0.0	99	0.00
20	4,6-Dinitro-2-methylphenol	0.103	0.069	33.0#	80	0.00
21	4-Bromophenyl-phenylether	0.282	0.272	3.5	100	0.00
22	Hexachlorobenzene	0.303	0.296	2.3	97	0.00
23	Atrazine	0.224	0.205	8.5	96	-0.01
24	Pentachlorophenol	0.164	0.153	6.7	98	0.00
25	Phenanthrene	1.127	1.066	5.4	98	-0.01
26	Anthracene	1.036	0.954	7.9	97	0.00
27 SURR	Fluoranthene-d10	1.146	1.126	1.7	105	0.00
28	Fluoranthene	1.439	1.432	0.5	104	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	110	0.00
30	Pyrene	1.514	1.468	3.0	105	0.00
31 S	Terphenyl-d14	0.853	0.854	-0.1	108	0.00
32	Benzo(a)anthracene	1.257	1.166	7.2	110	0.00
33	Chrysene	1.556	1.591	-2.2	110	0.00
34	Bis(2-ethylhexyl)phthalate	0.498	0.504	-1.2	110	0.00
35 I	Perylene-d12	1.000	1.000	0.0	111	0.00
36	Indeno(1,2,3-cd)pyrene	1.686	1.548	8.2	109	0.00
37	Benzo(b)fluoranthene	1.410	1.335	5.3	113	0.00
38	Benzo(k)fluoranthene	1.507	1.509	-0.1	115	0.00
39 C	Benzo(a)pyrene	1.254	1.180	5.9	111	0.00
40	Dibenzo(a,h)anthracene	1.296	1.226	5.4	113	0.00
41	Benzo(g,h,i)perylene	1.548	1.484	4.1	112	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062725\
Data File : BN037417.D
Acq On : 27 Jun 2025 10:09
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 27 10:47:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 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	85	0.00
2	1,4-Dioxane	0.400	0.387	3.3	84	0.00
3	n-Nitrosodimethylamine	0.400	0.391	2.3	83	0.00
4 S	2-Fluorophenol	0.400	0.412	-3.0	83	0.00
5 S	Phenol-d6	0.400	0.392	2.0	81	0.00
6	bis(2-Chloroethyl)ether	0.400	0.358	10.5	75	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	87	0.00
8 S	Nitrobenzene-d5	0.400	0.370	7.5	83	-0.01
9	Naphthalene	0.400	0.388	3.0	86	-0.01
10	Hexachlorobutadiene	0.400	0.405	-1.3	87	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.374	6.5	87	0.00
12	2-Methylnaphthalene	0.400	0.386	3.5	87	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	92	0.00
14 S	2,4,6-Tribromophenol	0.400	0.418	-4.5	94	0.00
15 S	2-Fluorobiphenyl	0.400	0.387	3.3	89	0.00
16	Acenaphthylene	0.400	0.381	4.8	92	-0.01
17	Acenaphthene	0.400	0.386	3.5	92	0.00
18	Fluorene	0.400	0.394	1.5	93	0.00
19 I	Phenanthrene-d10	0.400	0.400	0.0	99	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.267	33.3#	80	0.00
21	4-Bromophenyl-phenylether	0.400	0.386	3.5	100	0.00
22	Hexachlorobenzene	0.400	0.390	2.5	97	0.00
23	Atrazine	0.400	0.368	8.0	96	-0.01
24	Pentachlorophenol	0.400	0.374	6.5	98	0.00
25	Phenanthrene	0.400	0.378	5.5	98	-0.01
26	Anthracene	0.400	0.368	8.0	97	0.00
27 SURR	Fluoranthene-d10	0.400	0.393	1.8	105	0.00
28	Fluoranthene	0.400	0.398	0.5	104	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	110	0.00
30	Pyrene	0.400	0.388	3.0	105	0.00
31 S	Terphenyl-d14	0.400	0.401	-0.3	108	0.00
32	Benzo(a)anthracene	0.400	0.371	7.3	110	0.00
33	Chrysene	0.400	0.409	-2.2	110	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.405	-1.3	110	0.00
35 I	Perylene-d12	0.400	0.400	0.0	111	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.367	8.3	109	0.00
37	Benzo(b)fluoranthene	0.400	0.379	5.3	113	0.00
38	Benzo(k)fluoranthene	0.400	0.401	-0.3	115	0.00
39 C	Benzo(a)pyrene	0.400	0.376	6.0	111	0.00
40	Dibenzo(a,h)anthracene	0.400	0.378	5.5	113	0.00
41	Benzo(g,h,i)perylene	0.400	0.383	4.3	112	0.00

(#) = Out of Range

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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: AECO15

Lab Code: CHEM Case No.: Q2345 SAS No.: Q2345 SDG No.: Q2345

Instrument ID: BNA_N Calibration Date/Time: 06/27/2025 15:34

Lab File ID: BN037423.D Init. Calib. Date(s): 06/26/2025 06/26/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 10:41 14:17

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.619	0.609		-1.6	50.0
Fluoranthene-d10	1.146	1.092		-4.7	50.0
2-Fluorophenol	0.771	0.857		11.2	50.0
Phenol-d6	0.799	0.861		7.8	50.0
Nitrobenzene-d5	0.321	0.290		-9.7	50.0
2-Fluorobiphenyl	1.727	1.640		-5.0	50.0
2,4,6-Tribromophenol	0.235	0.221		-6.0	50.0
Terphenyl-d14	0.853	0.853		0.0	50.0
1,4-Dioxane	0.379	0.383		1.1	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062725\
 Data File : BN037423.D
 Acq On : 27 Jun 2025 15:34
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Jun 27 16:20:19 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 16:06:33 2025
 Response via : Initial Calibration

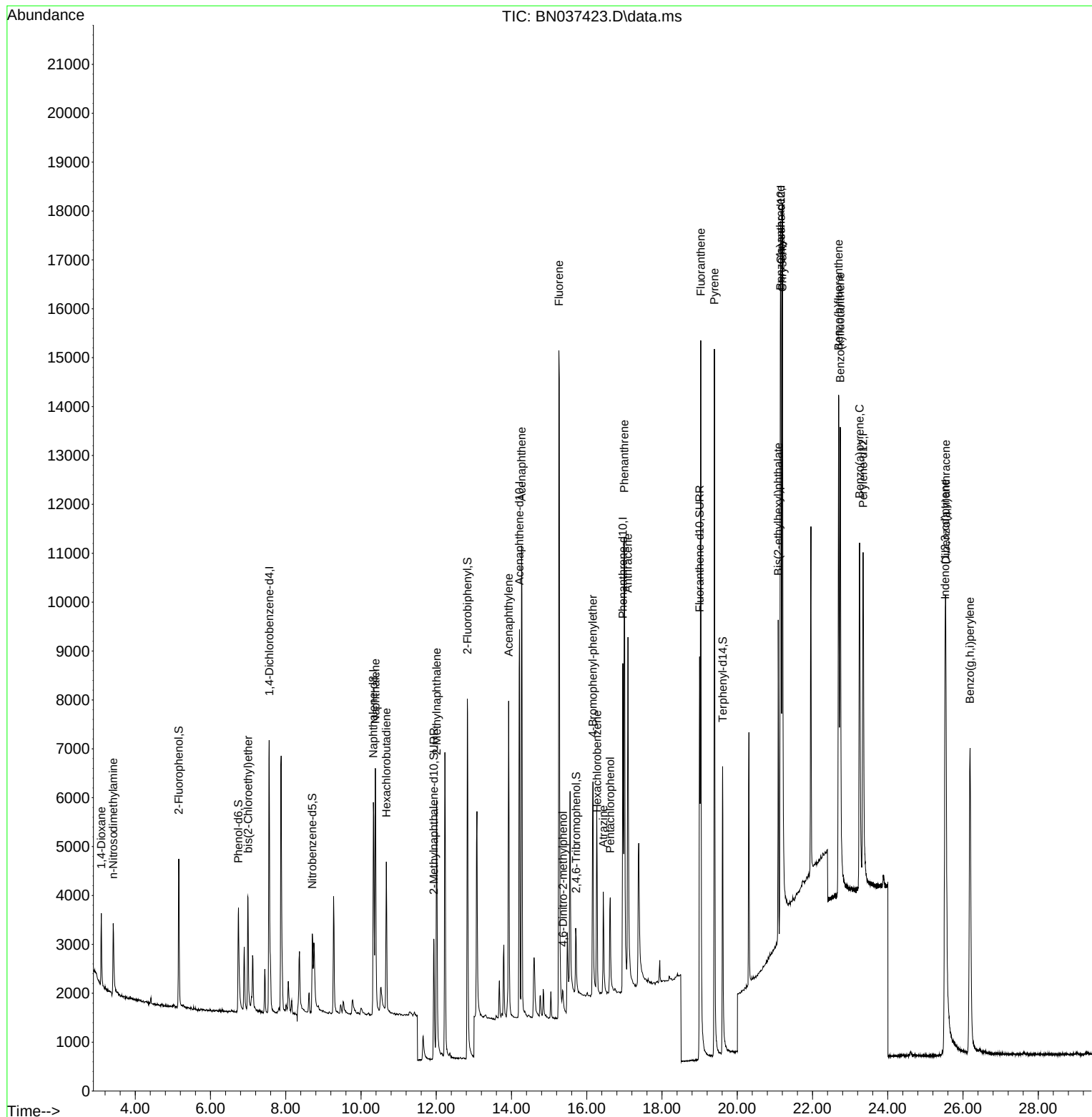
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.560	152	3058	0.400	ng	0.00
7) Naphthalene-d8	10.329	136	6888	0.400	ng	#-0.01
13) Acenaphthene-d10	14.213	164	4910	0.400	ng	0.00
19) Phenanthrene-d10	16.959	188	10652	0.400	ng	0.00
29) Chrysene-d12	21.162	240	9822	0.400	ng	# 0.00
35) Perylene-d12	23.345	264	9970	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.155	112	2622	0.445	ng	0.00
5) Phenol-d6	6.744	99	2632	0.431	ng	0.00
8) Nitrobenzene-d5	8.707	82	1997	0.362	ng	-0.01
11) 2-Methylnaphthalene-d10	11.935	152	4195	0.394	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	1086	0.377	ng	0.00
15) 2-Fluorobiphenyl	12.827	172	8050	0.380	ng	0.00
27) Fluoranthene-d10	18.998	212	11637	0.381	ng	0.00
31) Terphenyl-d14	19.611	244	8374	0.400	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.097	88	1172	0.404	ng	# 89
3) n-Nitrosodimethylamine	3.415	42	1043	0.364	ng	91
6) bis(2-Chloroethyl)ether	6.997	93	2060	0.379	ng	94
9) Naphthalene	10.383	128	6944	0.392	ng	98
10) Hexachlorobutadiene	10.671	225	2579	0.366	ng	# 99
12) 2-Methylnaphthalene	12.011	142	4837	0.396	ng	96
16) Acenaphthylene	13.924	152	7593	0.373	ng	99
17) Acenaphthene	14.266	154	5159	0.388	ng	98
18) Fluorene	15.261	166	7237	0.385	ng	100
20) 4,6-Dinitro-2-methylph...	15.368	198	651	0.238	ng	90
21) 4-Bromophenyl-phenylether	16.164	248	2601	0.346	ng	94
22) Hexachlorobenzene	16.276	284	3069	0.380	ng	97
23) Atrazine	16.438	200	2132	0.358	ng	95
24) Pentachlorophenol	16.624	266	1397	0.320	ng	95
25) Phenanthrene	16.996	178	11292	0.376	ng	99
26) Anthracene	17.095	178	10136	0.367	ng	100
28) Fluoranthene	19.031	202	14938	0.390	ng	99
30) Pyrene	19.393	202	14993	0.403	ng	99
32) Benzo(a)anthracene	21.144	228	12277	0.398	ng	100
33) Chrysene	21.197	228	14232	0.373	ng	99
34) Bis(2-ethylhexyl)phtha...	21.090	149	5290	0.433	ng	99
36) Indeno(1,2,3-cd)pyrene	25.523	276	15653	0.372	ng	# 96
37) Benzo(b)fluoranthene	22.693	252	13588	0.387	ng	99
38) Benzo(k)fluoranthene	22.737	252	14365	0.382	ng	98
39) Benzo(a)pyrene	23.251	252	11844	0.379	ng	# 97
40) Dibenzo(a,h)anthracene	25.541	278	11618	0.360	ng	# 96
41) Benzo(g,h,i)perylene	26.187	276	14102	0.365	ng	97

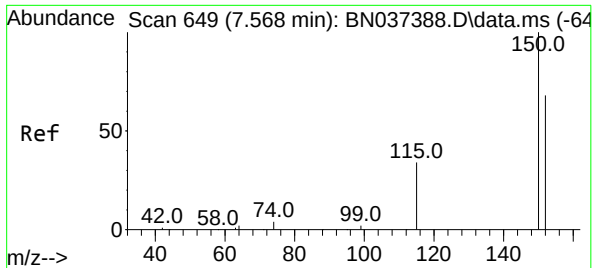
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Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062725\
Data File : BN037423.D
Acq On : 27 Jun 2025 15:34
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

Quant Time: Jun 27 16:20:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration

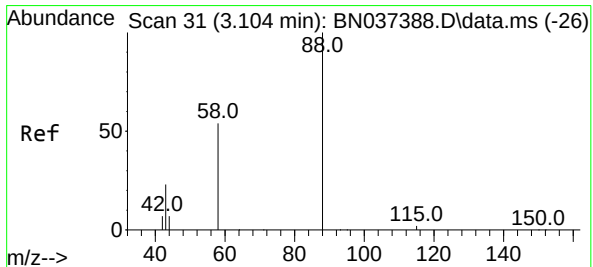
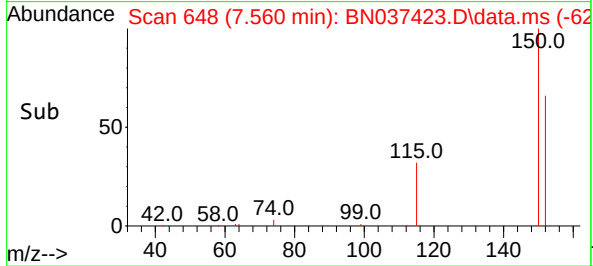
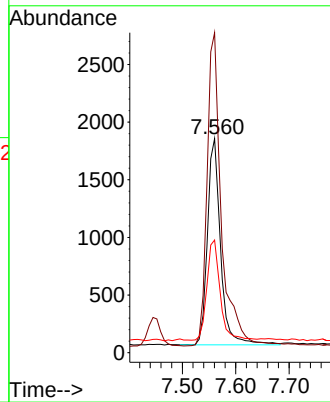
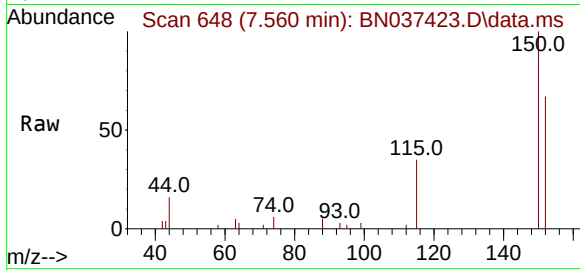




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

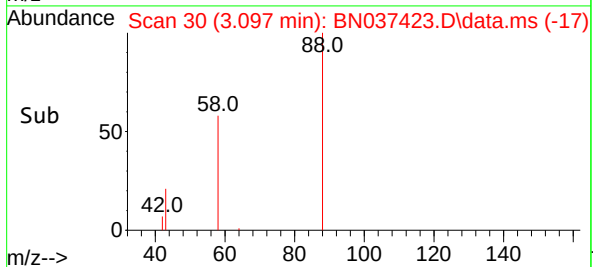
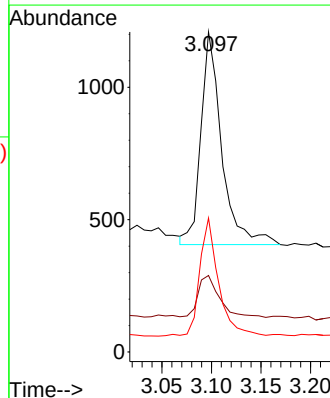
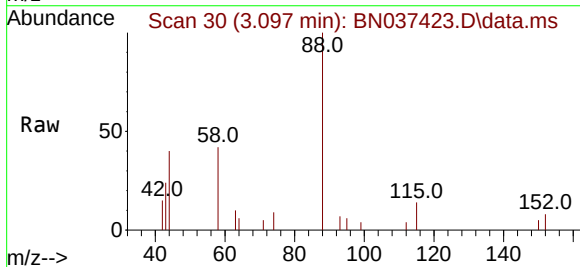
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

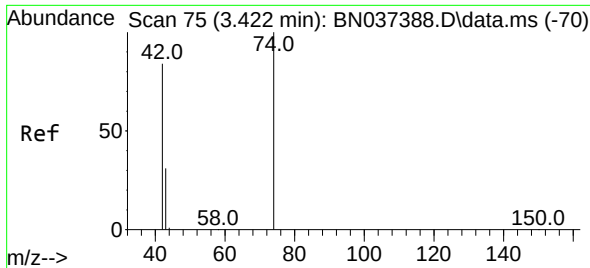
Tgt Ion:152 Resp: 3058
Ion Ratio Lower Upper
152 100
150 149.5 116.2 174.2
115 52.7 42.9 64.3



#2
1,4-Dioxane
Concen: 0.404 ng
RT: 3.097 min Scan# 30
Delta R.T. -0.007 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

Tgt Ion: 88 Resp: 1172
Ion Ratio Lower Upper
88 100
43 20.1 21.6 32.4#
58 50.5 45.9 68.9

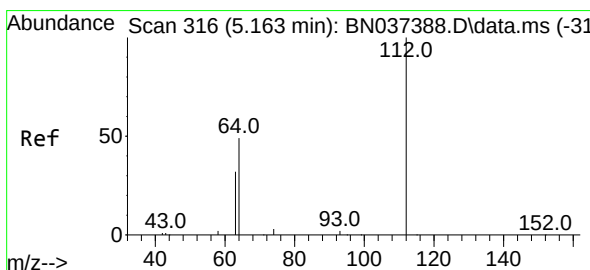
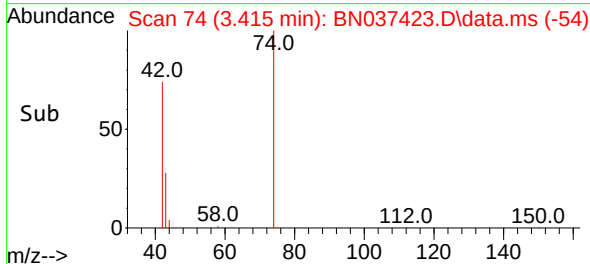
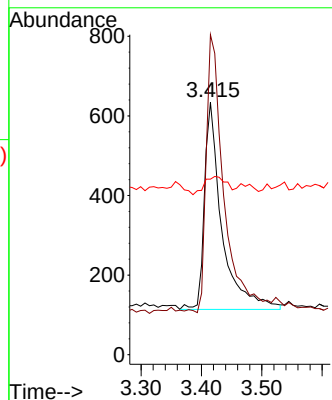
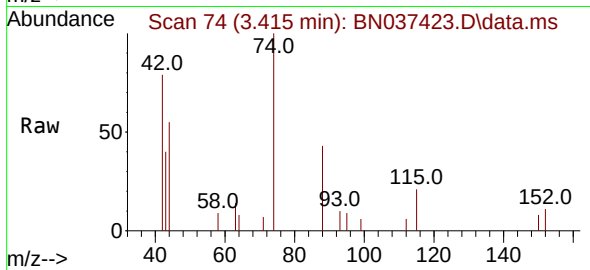




#3
n-Nitrosodimethylamine
Concen: 0.364 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

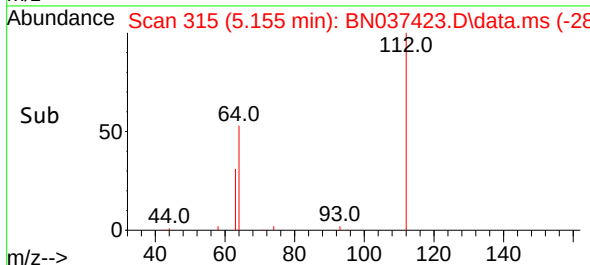
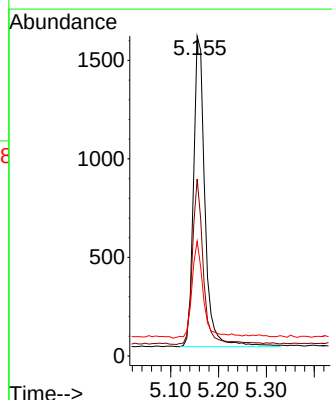
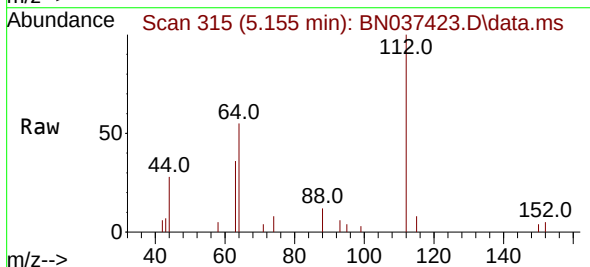
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

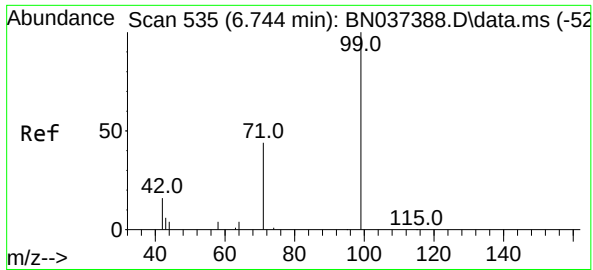
Tgt Ion:	42	Resp:	1043
Ion	Ratio	Lower	Upper
42	100		
74	133.6	97.8	146.8
44	11.0	8.7	13.1



#4
2-Fluorophenol
Concen: 0.445 ng
RT: 5.155 min Scan# 315
Delta R.T. -0.007 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

Tgt Ion:	112	Resp:	2622
Ion	Ratio	Lower	Upper
112	100		
64	51.2	40.3	60.5
63	31.7	26.1	39.1

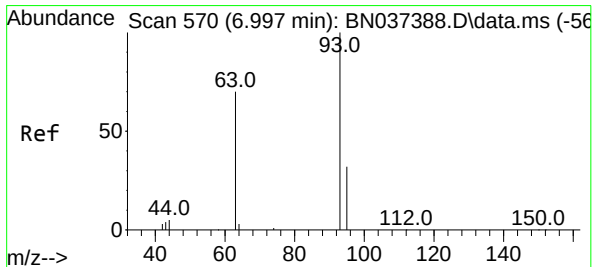
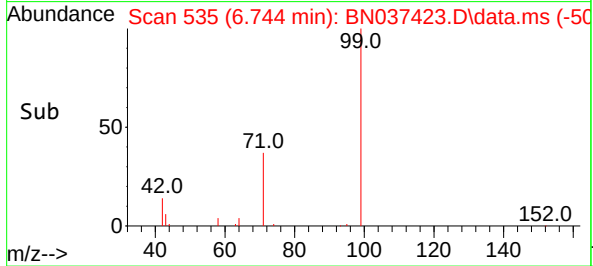
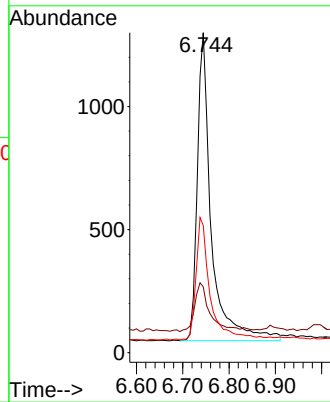
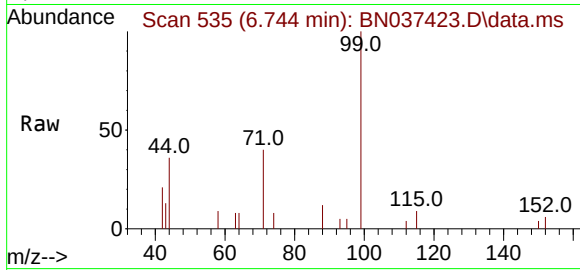




#5
Phenol-d6
Concen: 0.431 ng
RT: 6.744 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

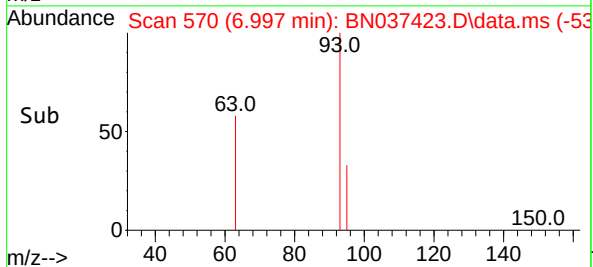
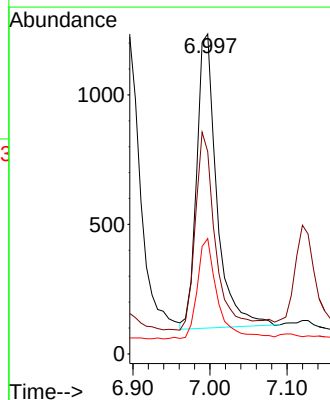
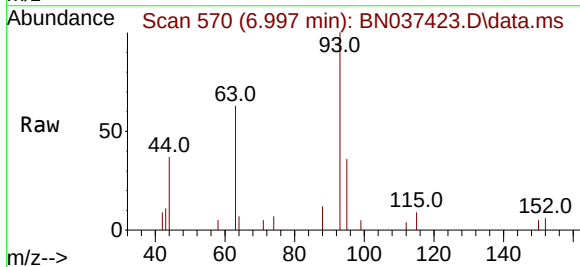
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

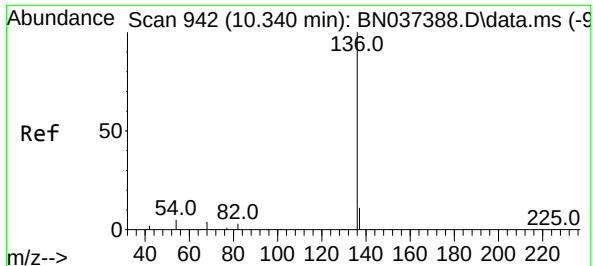
Tgt Ion:	99	Resp:	2632
Ion	Ratio	Lower	Upper
99	100		
42	17.1	15.6	23.4
71	40.2	35.8	53.8



#6
bis(2-Chloroethyl)ether
Concen: 0.379 ng
RT: 6.997 min Scan# 570
Delta R.T. -0.000 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

Tgt Ion:	93	Resp:	2060
Ion	Ratio	Lower	Upper
93	100		
63	66.0	49.6	74.4
95	34.3	23.9	35.9

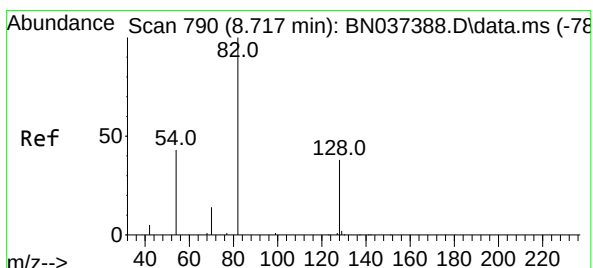
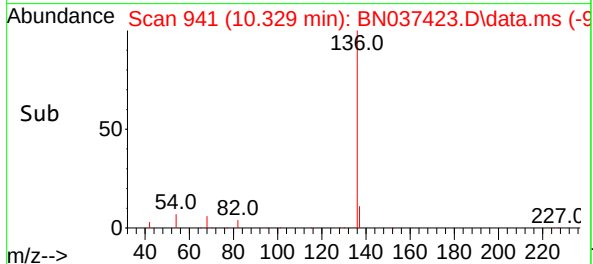
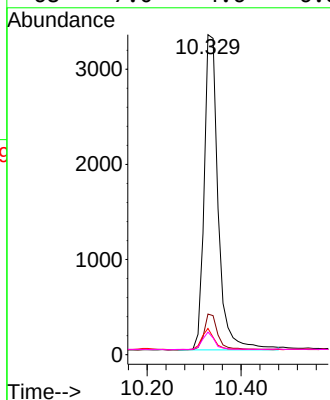
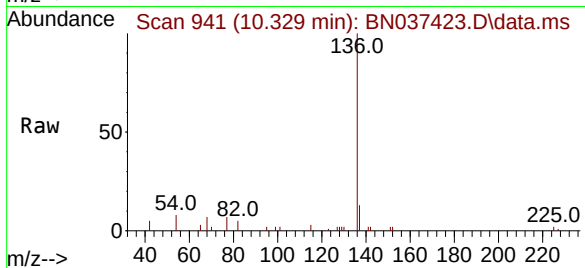




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.329 min Scan# 941
Delta R.T. -0.011 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

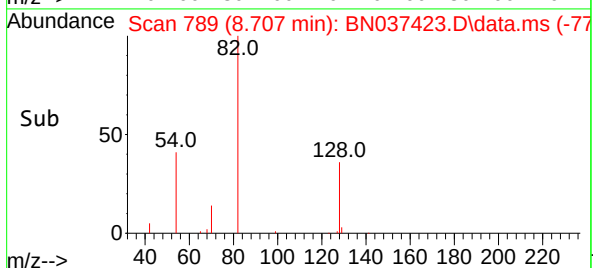
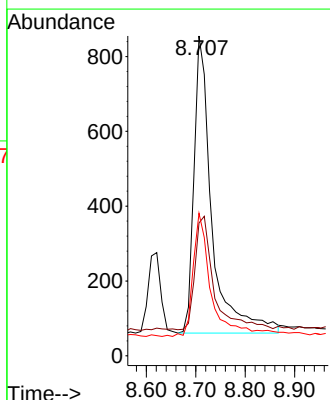
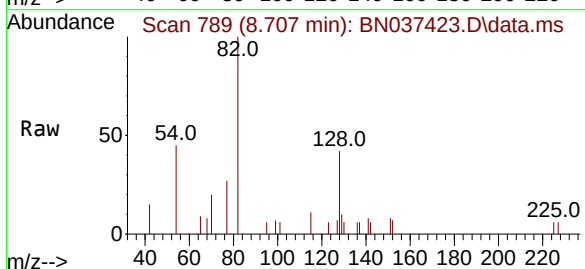
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

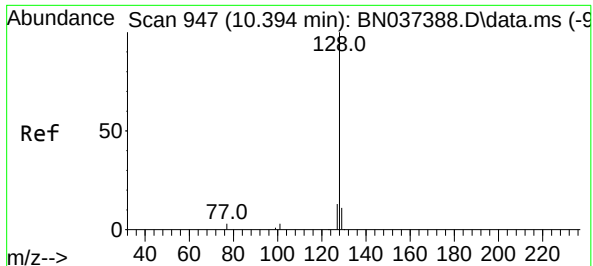
Tgt Ion:	136	Resp:	6888
Ion	Ratio	Lower	Upper
136	100		
137	12.7	10.4	15.6
54	8.2	5.6	8.4
68	7.0	4.6	6.8



#8
Nitrobenzene-d5
Concen: 0.362 ng
RT: 8.707 min Scan# 789
Delta R.T. -0.011 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

Tgt Ion:	82	Resp:	1997
Ion	Ratio	Lower	Upper
82	100		
128	41.5	34.0	51.0
54	44.6	37.7	56.5

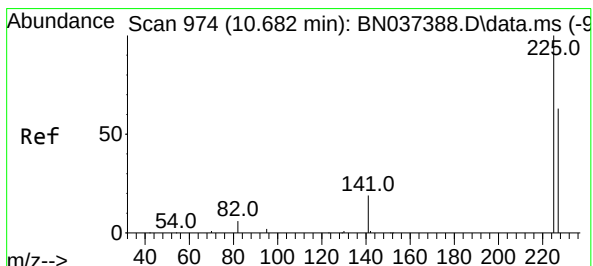
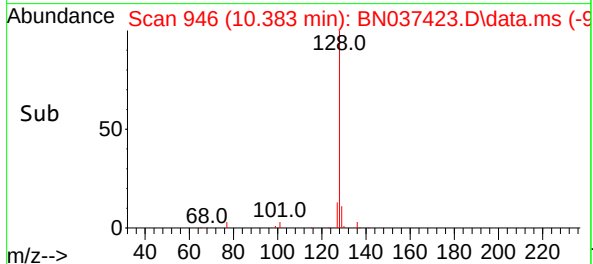
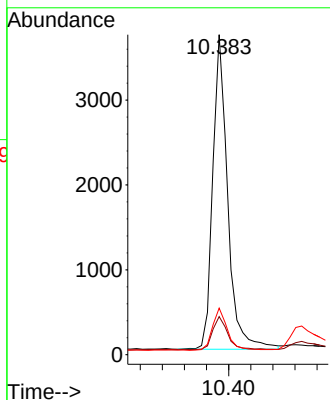
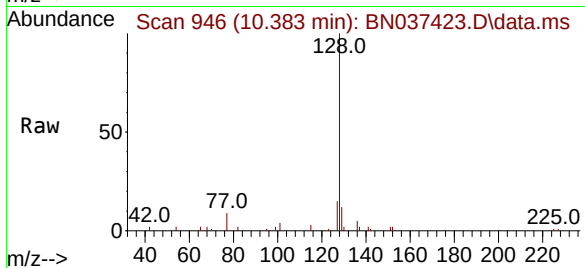




#9
Naphthalene
Concen: 0.392 ng
RT: 10.383 min Scan# 946
Delta R.T. -0.011 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

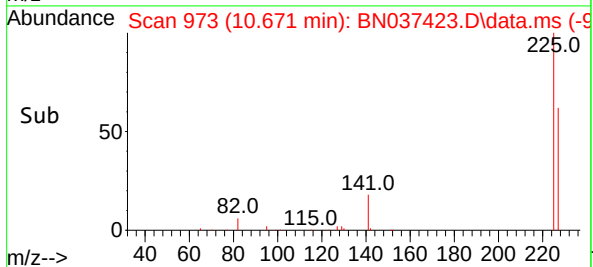
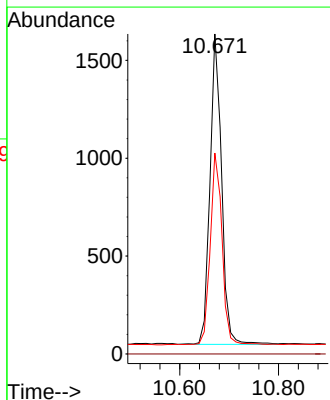
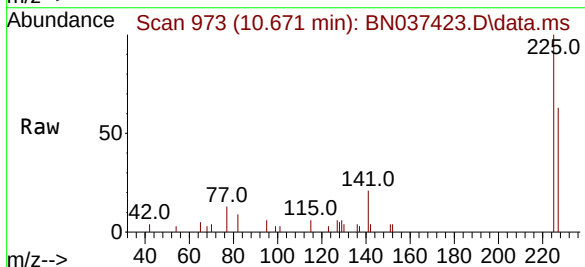
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

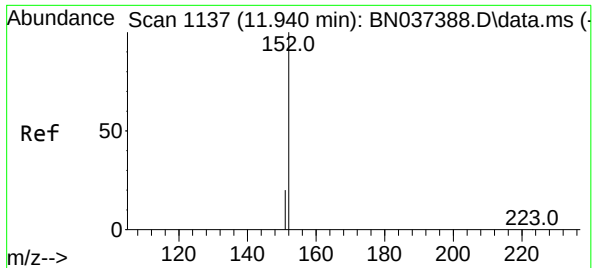
Tgt Ion	128	129	127
Resp:	6944		
Ratio	100	11.9	14.6
Lower		10.4	12.2
Upper		15.6	18.4



#10
Hexachlorobutadiene
Concen: 0.366 ng
RT: 10.671 min Scan# 973
Delta R.T. -0.011 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

Tgt Ion	225	223	227
Resp:	2579		
Ratio	100	0.0	63.0
Lower		0.0	49.9
Upper		0.0	74.9

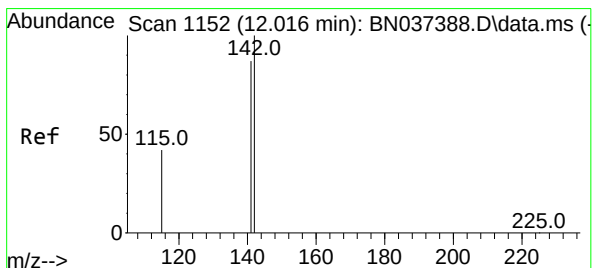
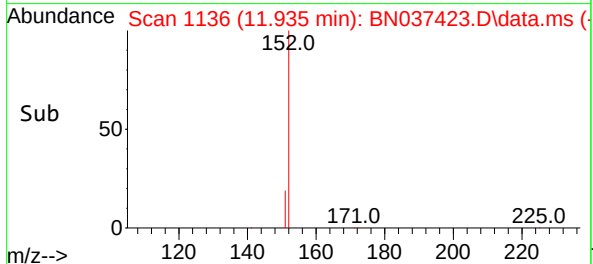
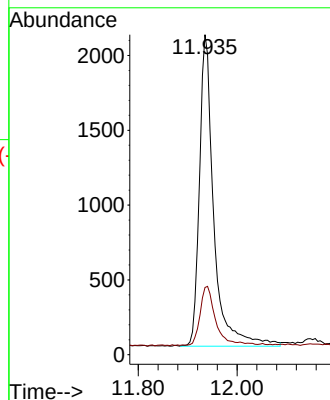
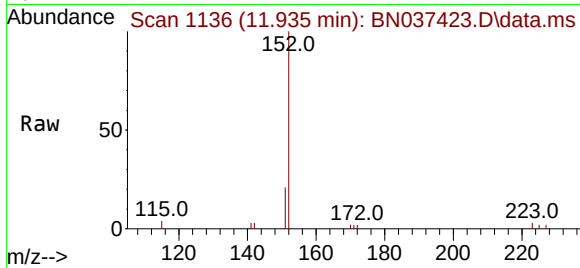




#11
2-Methylnaphthalene-d10
Concen: 0.394 ng
RT: 11.935 min Scan# 1136
Delta R.T. -0.005 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

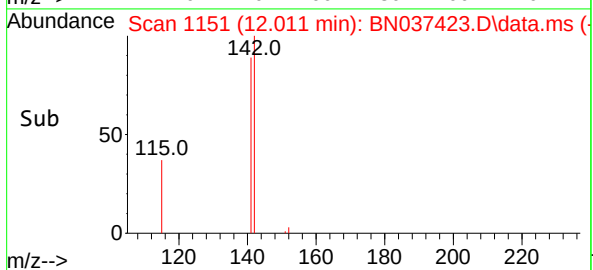
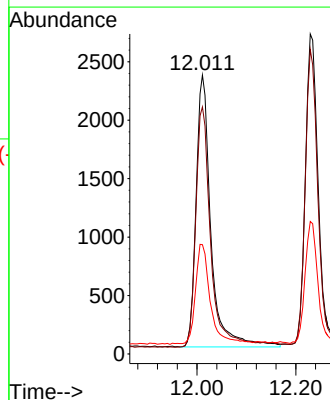
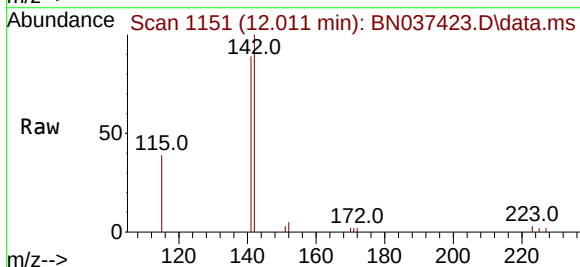
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

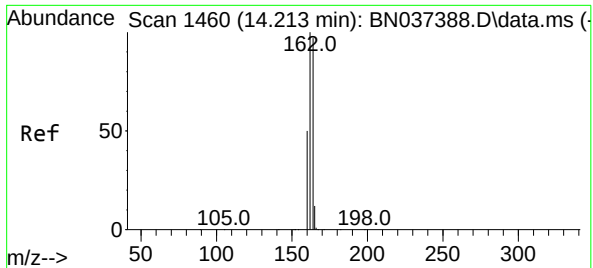
Tgt Ion:152 Resp: 4195
Ion Ratio Lower Upper
152 100
151 20.2 18.4 27.6



#12
2-Methylnaphthalene
Concen: 0.396 ng
RT: 12.011 min Scan# 1151
Delta R.T. -0.005 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

Tgt Ion:142 Resp: 4837
Ion Ratio Lower Upper
142 100
141 88.6 70.1 105.1
115 39.2 35.8 53.6

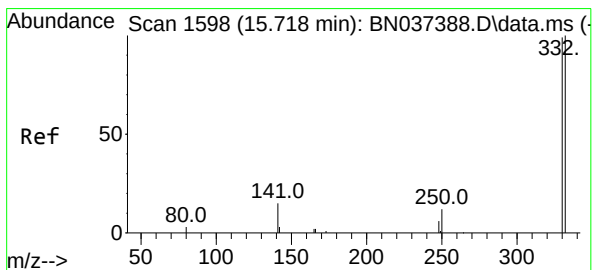
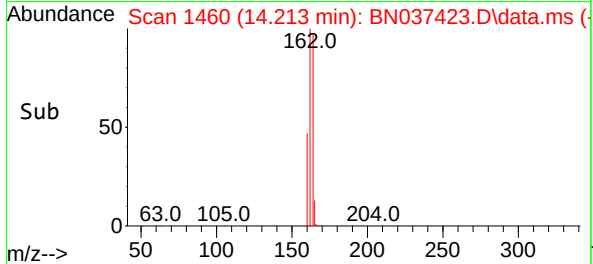
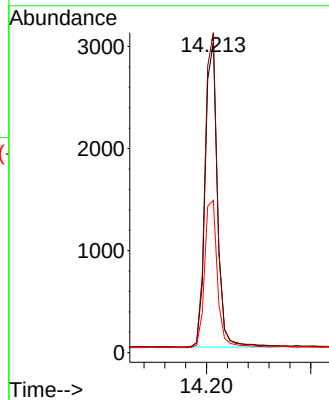
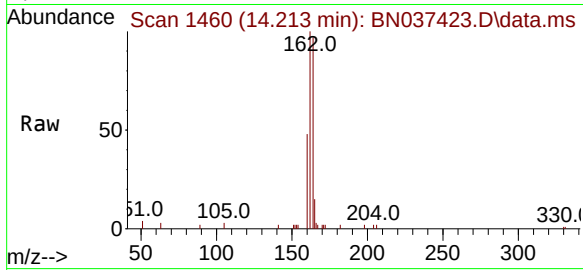




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

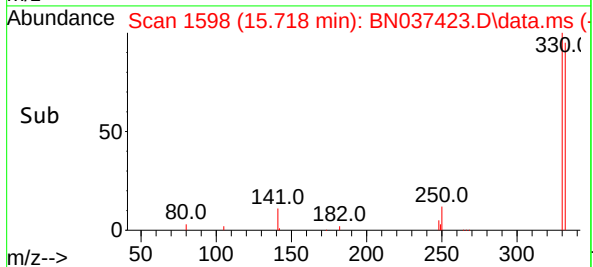
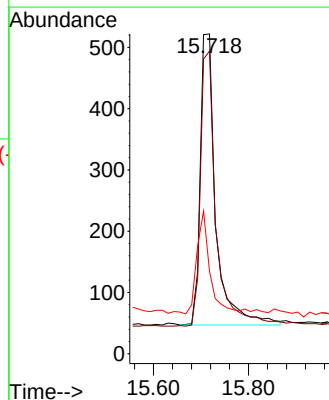
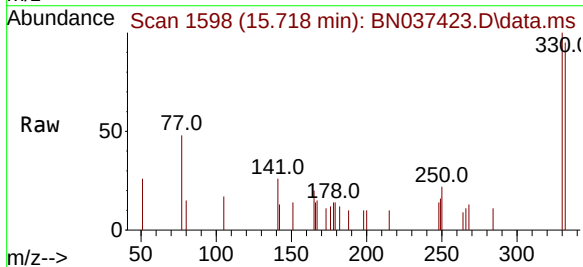
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

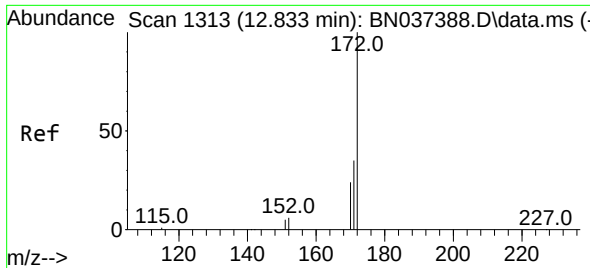
Tgt Ion	Ratio	Lower	Upper
164	100		
162	103.1	82.6	123.8
160	49.1	42.2	63.2



#14
2,4,6-Tribromophenol
Concen: 0.377 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.3	77.8	116.8
141	27.3	24.0	36.0

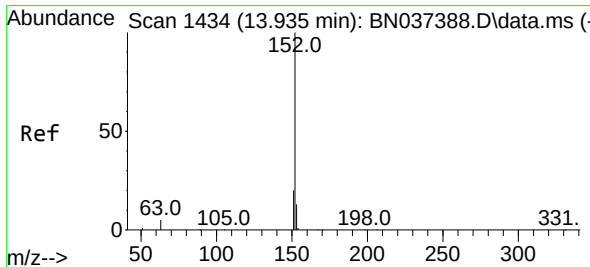
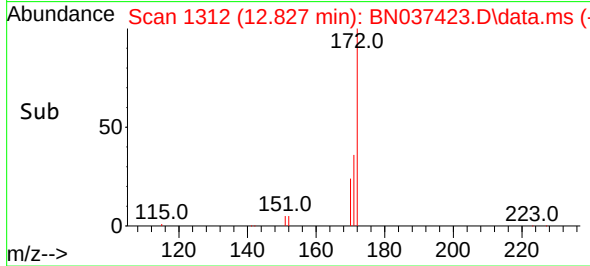
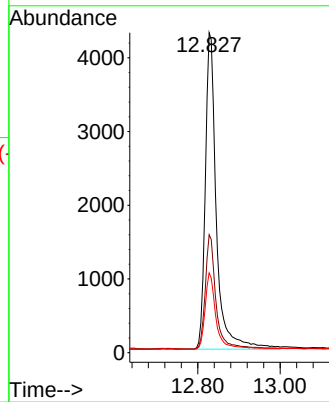
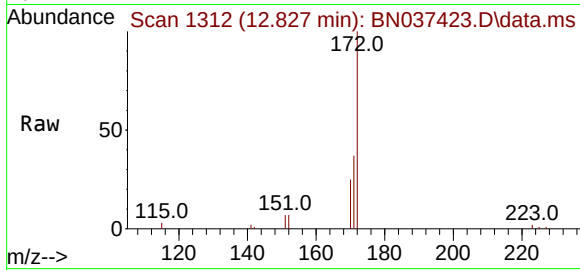




#15
2-Fluorobiphenyl
Concen: 0.380 ng
RT: 12.827 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

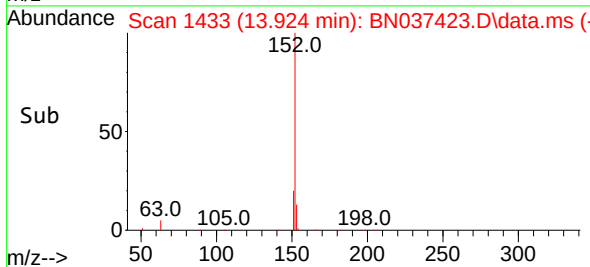
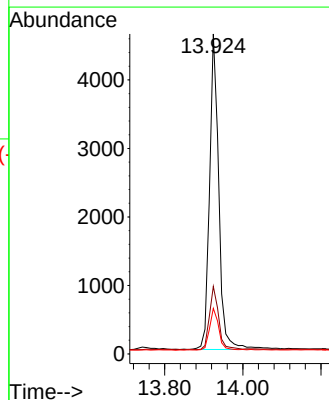
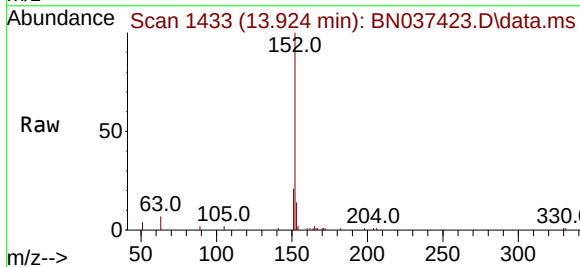
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

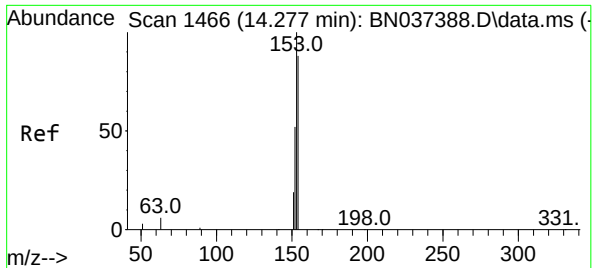
Tgt Ion:	172	Resp:	8050
Ion Ratio	Lower	Upper	
172	100		
171	36.8	28.8	43.2
170	25.0	20.3	30.5



#16
Acenaphthylene
Concen: 0.373 ng
RT: 13.924 min Scan# 1433
Delta R.T. -0.011 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

Tgt Ion:	152	Resp:	7593
Ion Ratio	Lower	Upper	
152	100		
151	19.9	15.8	23.6
153	13.7	10.3	15.5

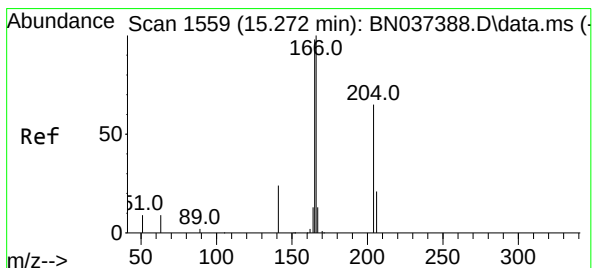
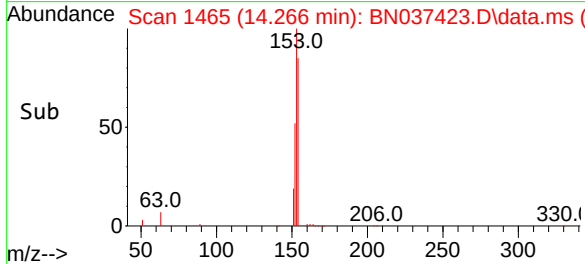
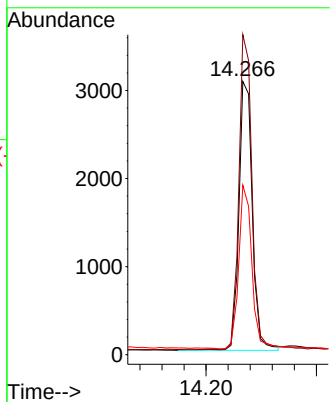
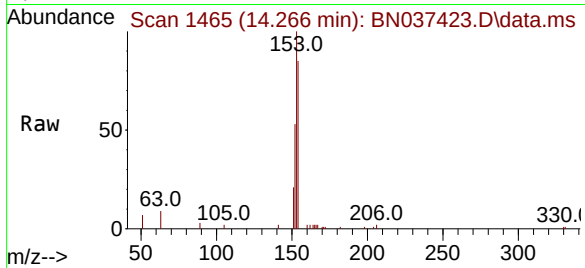




#17
Acenaphthene
Concen: 0.388 ng
RT: 14.266 min Scan# 1465
Delta R.T. -0.011 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

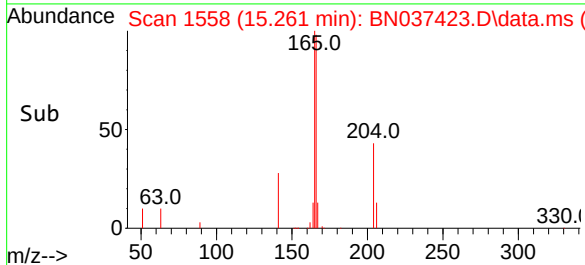
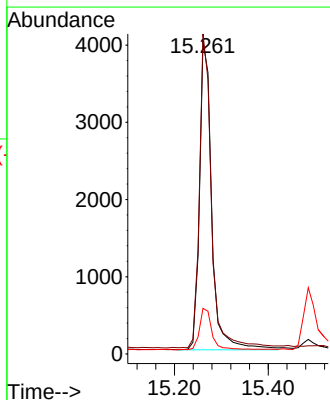
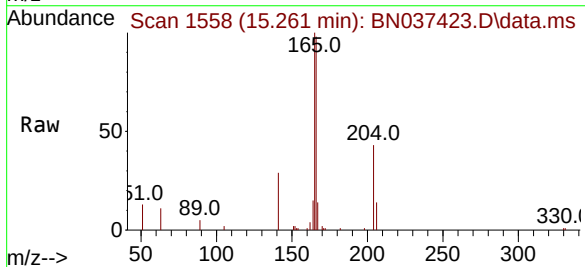
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

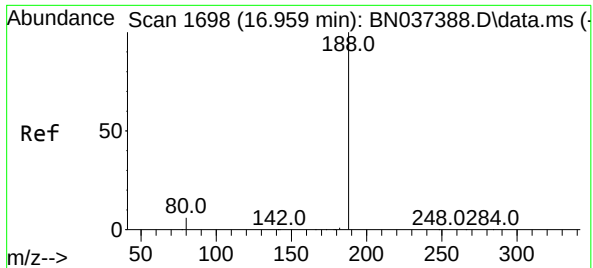
Tgt Ion:154 Resp: 5159
Ion Ratio Lower Upper
154 100
153 115.8 94.6 141.8
152 60.6 50.2 75.2



#18
Fluorene
Concen: 0.385 ng
RT: 15.261 min Scan# 1558
Delta R.T. -0.011 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

Tgt Ion:166 Resp: 7237
Ion Ratio Lower Upper
166 100
165 99.1 79.4 119.2
167 14.0 10.6 15.8





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.959 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037423.D

Acq: 27 Jun 2025 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

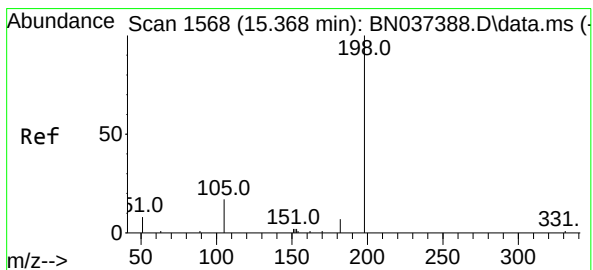
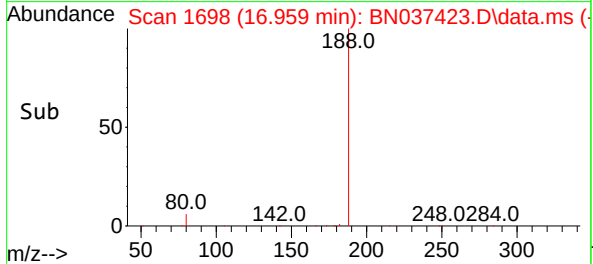
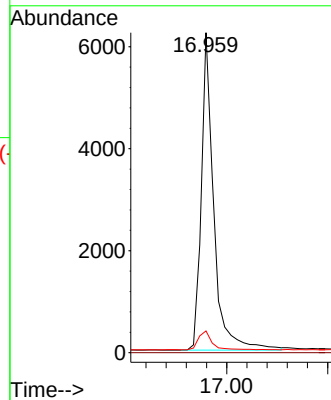
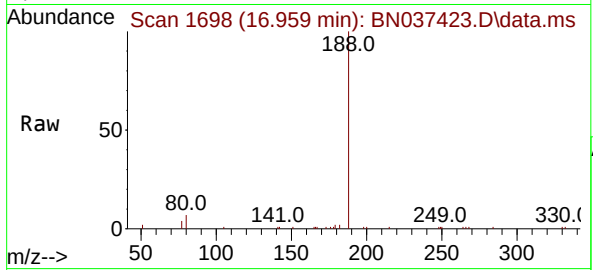
Tgt Ion:188 Resp: 10652

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.8 6.2 9.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.238 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.000 min

Lab File: BN037423.D

Acq: 27 Jun 2025 15:34

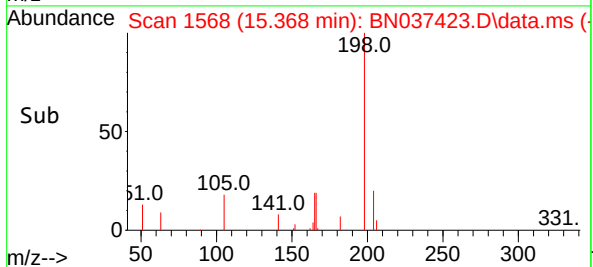
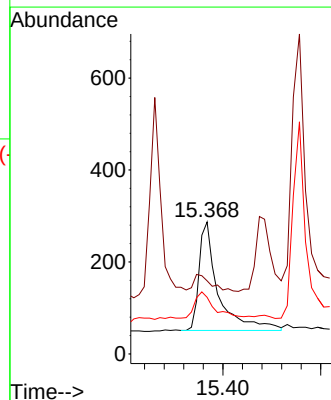
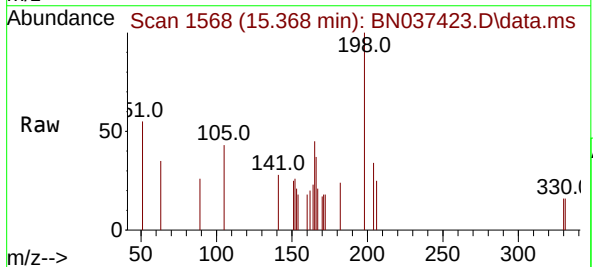
Tgt Ion:198 Resp: 651

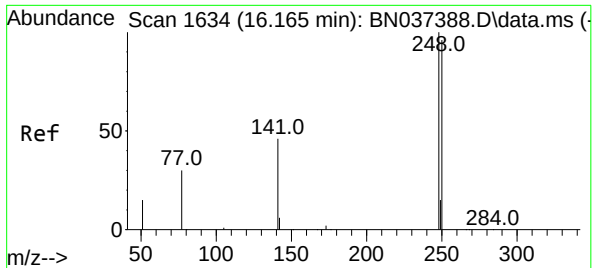
Ion Ratio Lower Upper

198 100

51 55.4 38.8 58.2

105 42.9 29.8 44.6

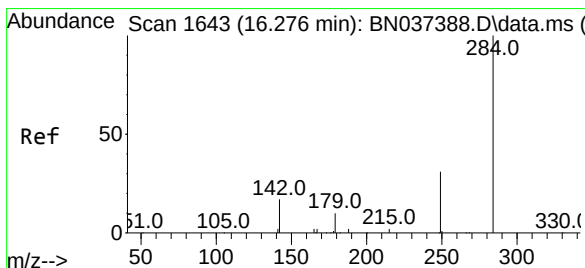
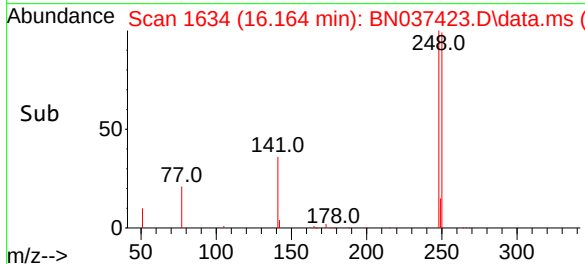
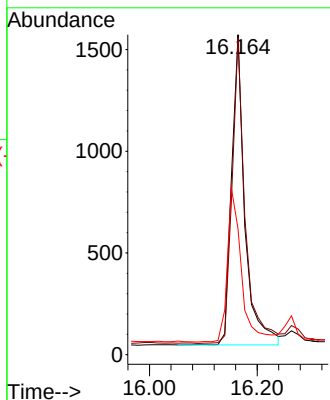
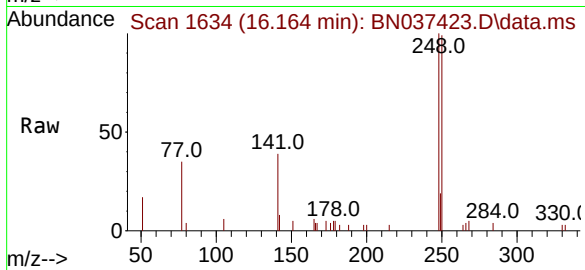




#21
4-Bromophenyl-phenylether
Concen: 0.346 ng
RT: 16.164 min Scan# 1634
Delta R.T. -0.000 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

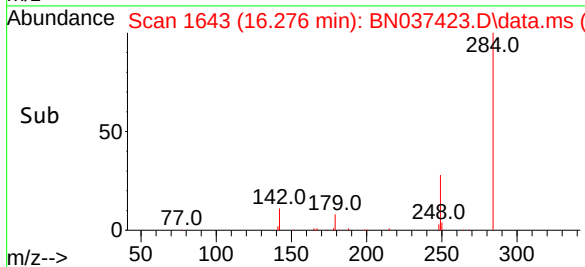
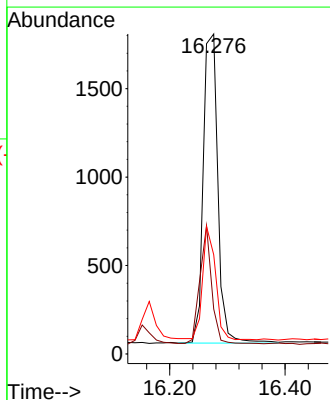
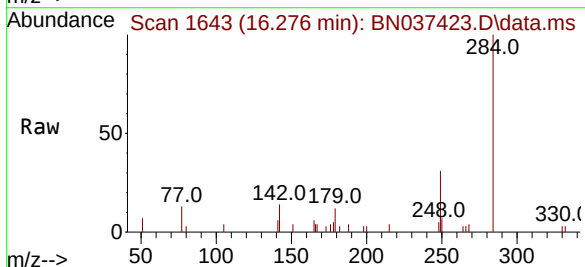
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

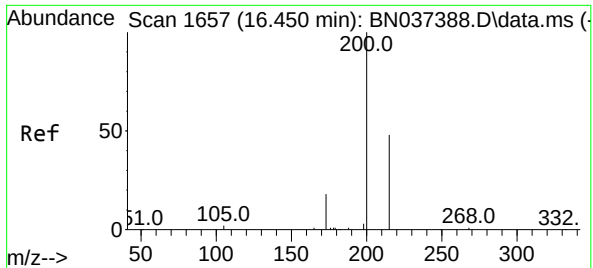
Tgt Ion	Ratio	Lower	Upper
248	100		
250	99.1	77.0	115.4
141	39.3	38.7	58.1



#22
Hexachlorobenzene
Concen: 0.380 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

Tgt Ion	Ratio	Lower	Upper
284	100		
142	31.2	27.2	40.8
249	32.4	26.7	40.1

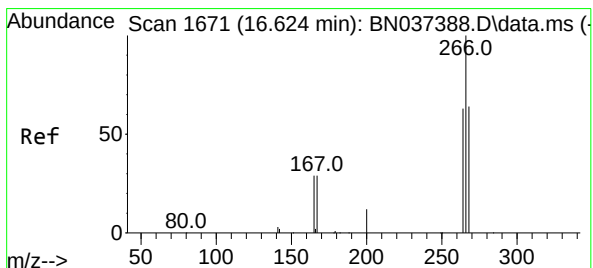
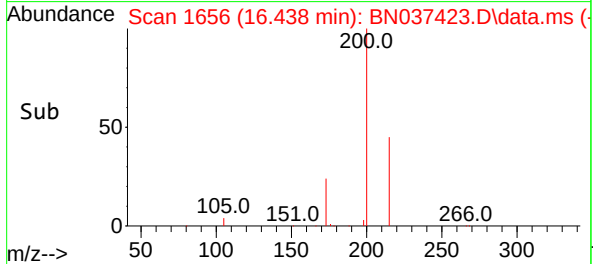
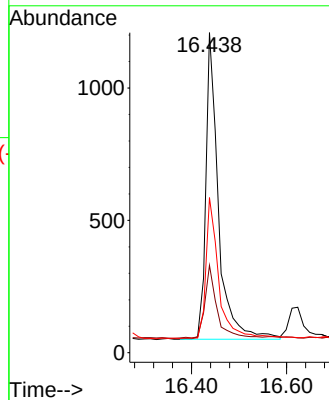
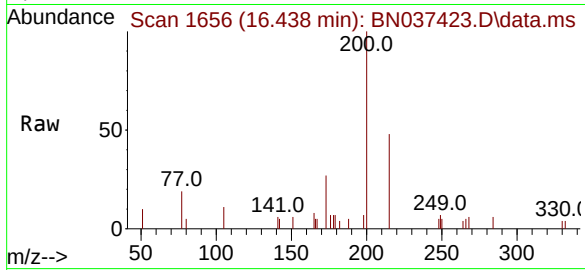




#23
Atrazine
Concen: 0.358 ng
RT: 16.438 min Scan# 1656
Delta R.T. -0.013 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

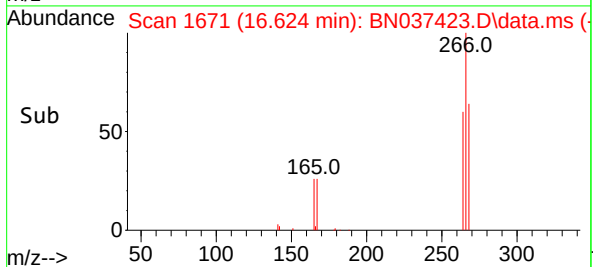
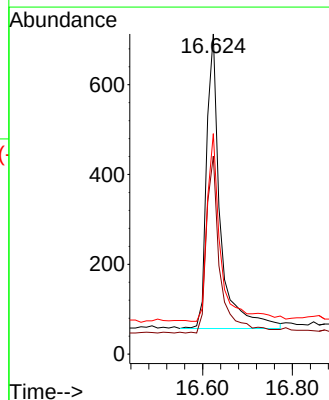
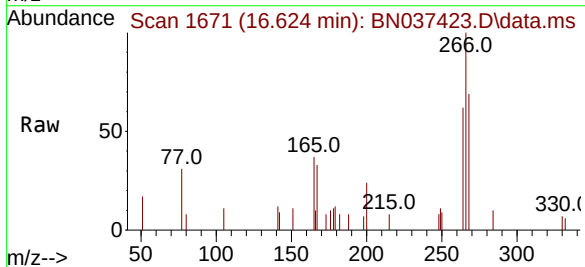
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

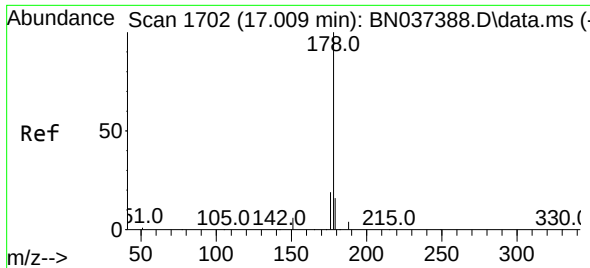
Tgt Ion	Ratio	Lower	Upper
200	100		
173	27.3	19.0	28.6
215	48.5	41.3	61.9



#24
Pentachlorophenol
Concen: 0.320 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

Tgt Ion	Ratio	Lower	Upper
266	100		
264	59.3	49.2	73.8
268	62.3	54.2	81.4

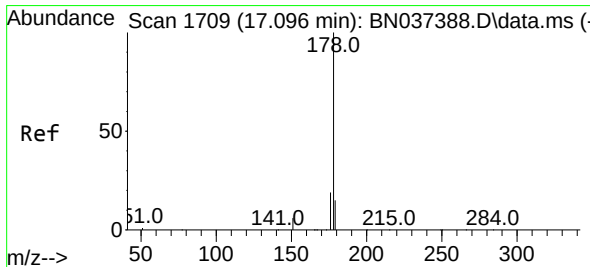
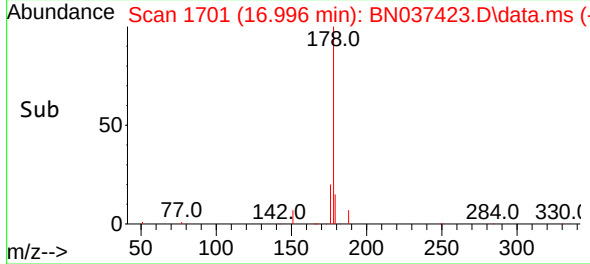
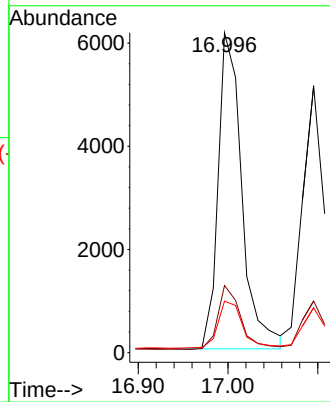
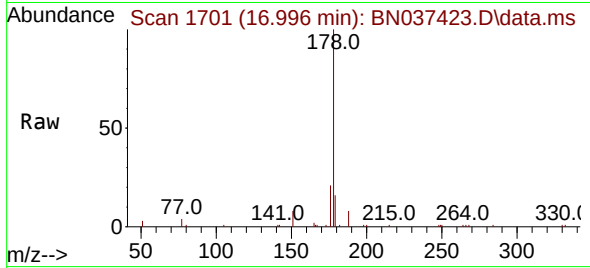




#25
Phenanthrene
Concen: 0.376 ng
RT: 16.996 min Scan# 1701
Delta R.T. -0.013 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

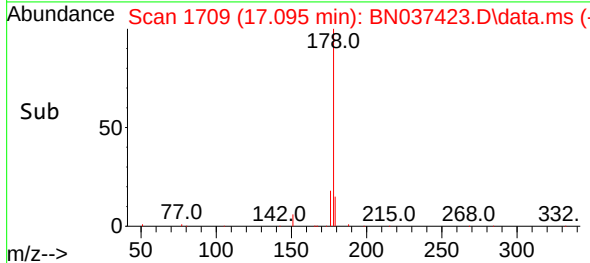
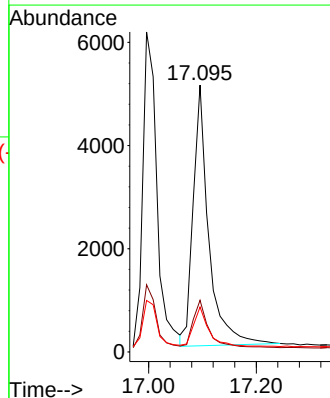
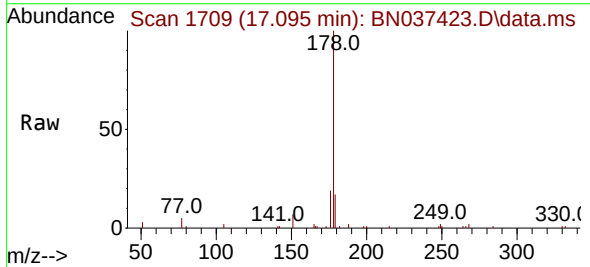
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

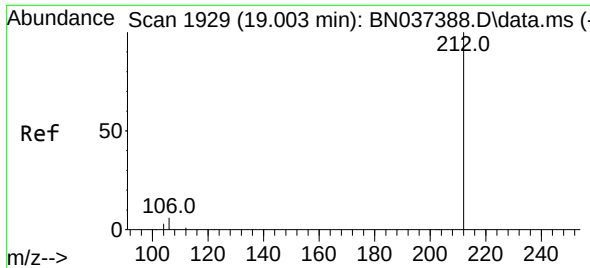
Tgt Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.6	23.4
179	15.5	12.8	19.2



#26
Anthracene
Concen: 0.367 ng
RT: 17.095 min Scan# 1709
Delta R.T. -0.000 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

Tgt Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.9	22.3
179	15.6	12.4	18.6

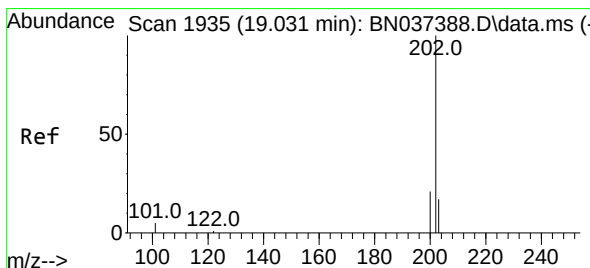
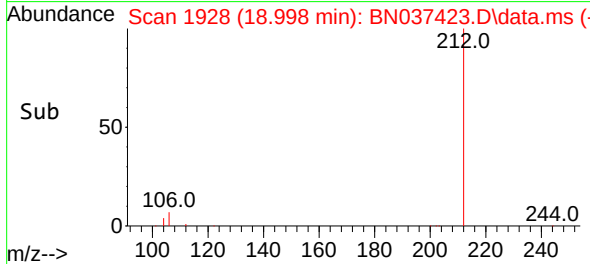
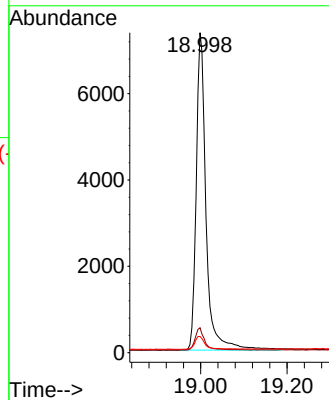
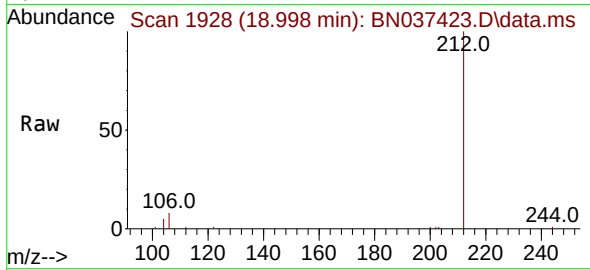




#27
Fluoranthene-d10
Concen: 0.381 ng
RT: 18.998 min Scan# 1928
Delta R.T. -0.005 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

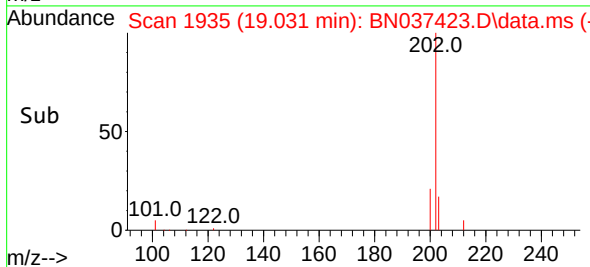
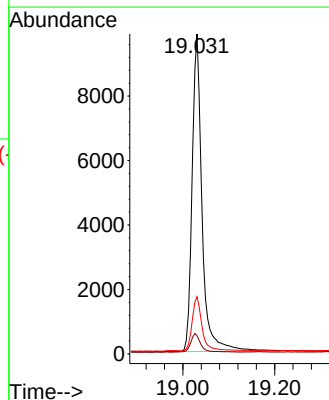
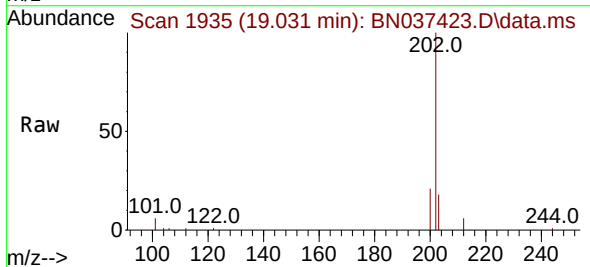
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

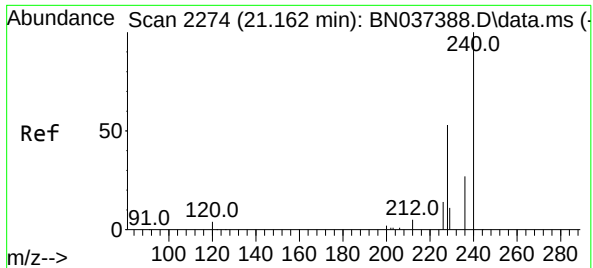
Tgt Ion:212 Resp: 11637
Ion Ratio Lower Upper
212 100
106 6.7 4.5 6.7
104 4.2 2.7 4.1#



#28
Fluoranthene
Concen: 0.390 ng
RT: 19.031 min Scan# 1935
Delta R.T. -0.000 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

Tgt Ion:202 Resp: 14938
Ion Ratio Lower Upper
202 100
101 5.5 3.8 5.6
203 16.9 13.5 20.3

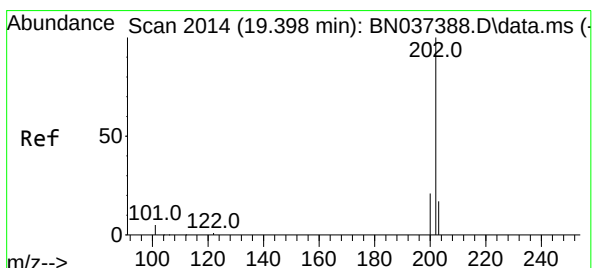
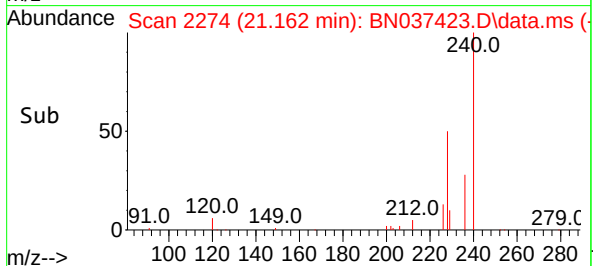
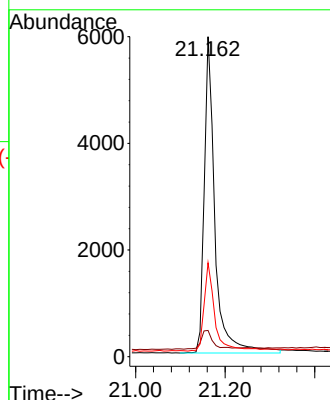
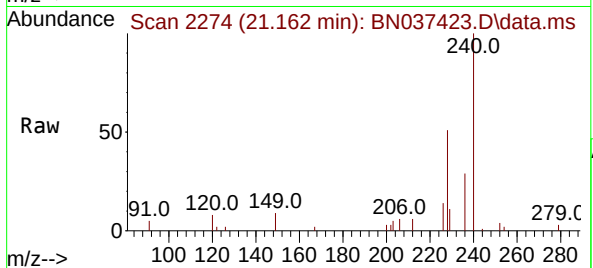




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 211
Delta R.T. -0.000 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

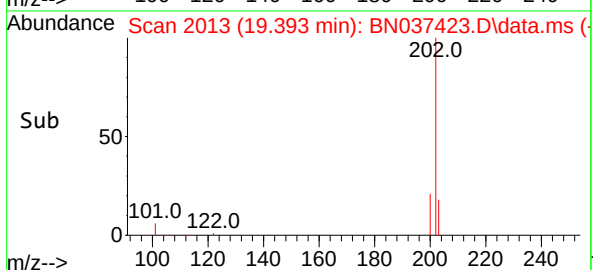
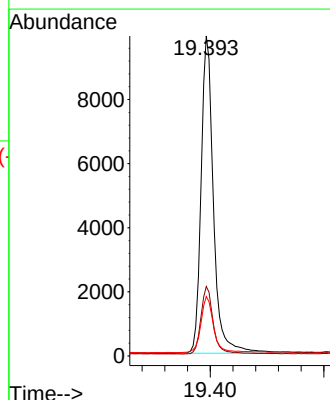
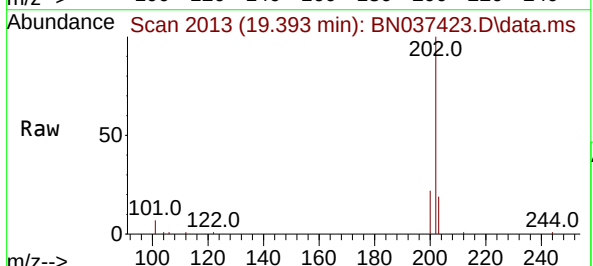
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

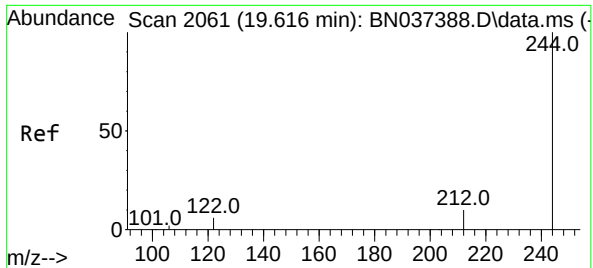
Tgt Ion:240 Resp: 9822
Ion Ratio Lower Upper
240 100
120 8.2 5.3 7.9#
236 29.3 22.7 34.1



#30
Pyrene
Concen: 0.403 ng
RT: 19.393 min Scan# 2013
Delta R.T. -0.005 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

Tgt Ion:202 Resp: 14993
Ion Ratio Lower Upper
202 100
200 21.4 16.5 24.7
203 18.0 14.2 21.2

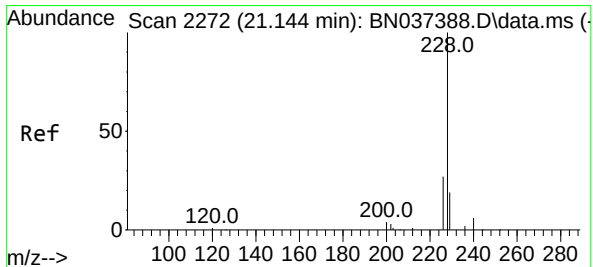
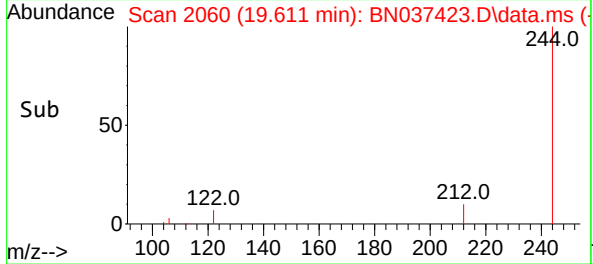
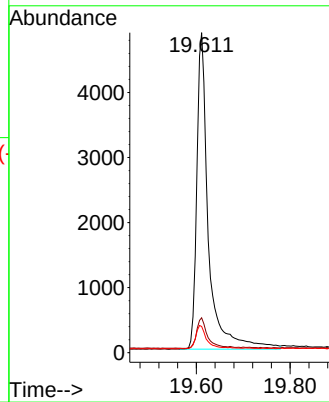
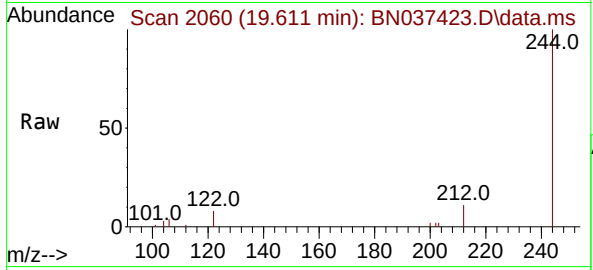




#31
Terphenyl-d14
Concen: 0.400 ng
RT: 19.611 min Scan# 2060
Delta R.T. -0.005 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

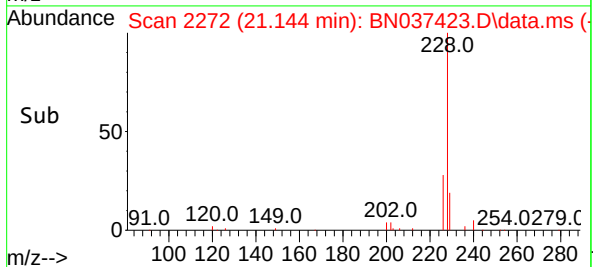
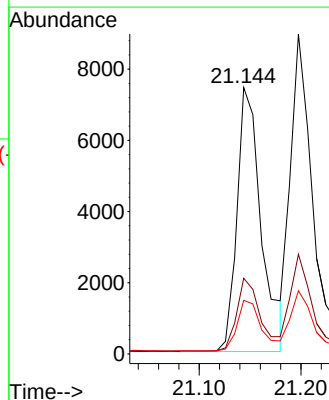
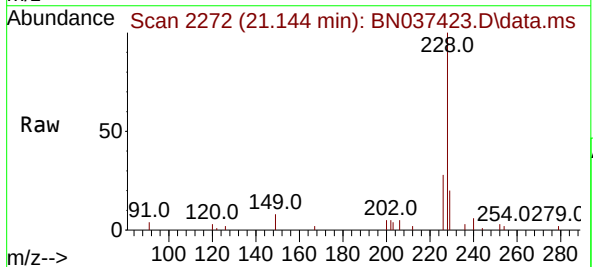
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

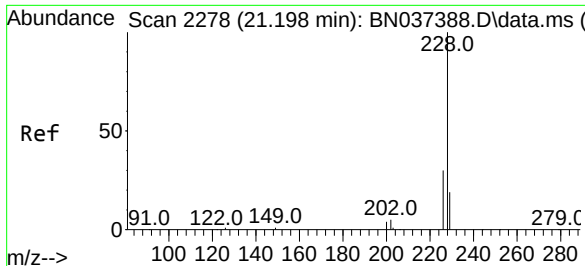
Tgt Ion:244	Resp:	8374
Ion Ratio	Lower	Upper
244	100	
212	10.9	9.1 13.7
122	8.2	6.3 9.5



#32
Benzo(a)anthracene
Concen: 0.398 ng
RT: 21.144 min Scan# 2272
Delta R.T. -0.000 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

Tgt Ion:228	Resp:	12277
Ion Ratio	Lower	Upper
228	100	
226	28.4	22.6 34.0
229	20.1	16.2 24.2

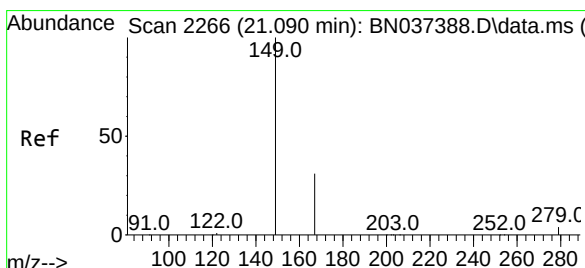
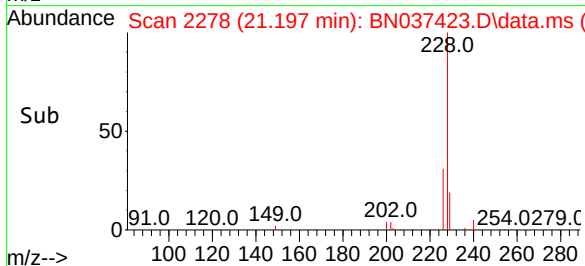
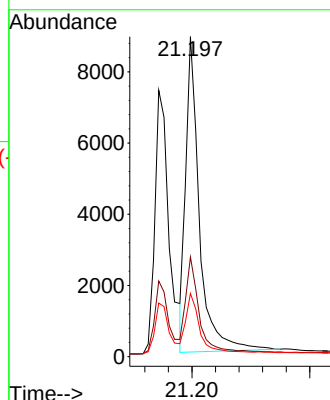
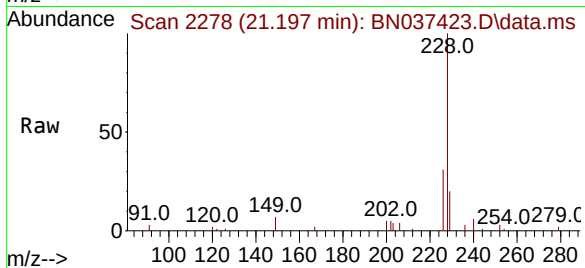




#33
Chrysene
Concen: 0.373 ng
RT: 21.197 min Scan# 2119
Delta R.T. -0.000 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

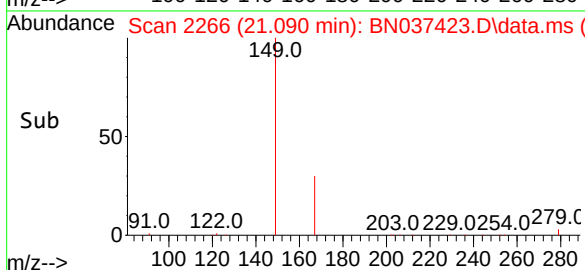
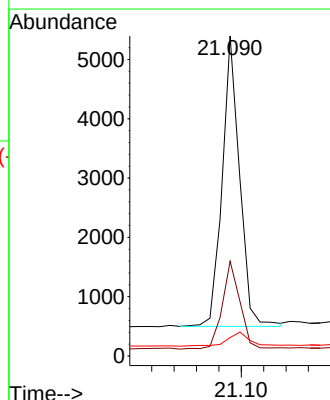
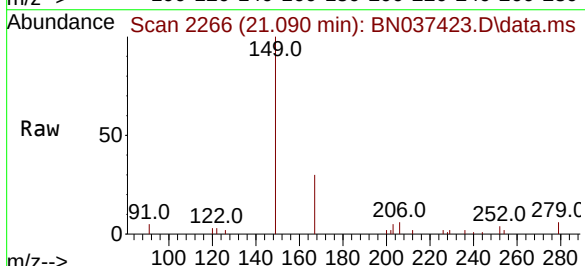
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

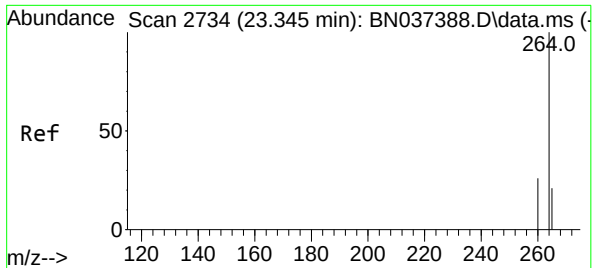
Tgt Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.5	36.7
229	19.8	16.1	24.1



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.433 ng
RT: 21.090 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

Tgt Ion	Ratio	Lower	Upper
149	100		
167	30.6	24.8	37.2
279	6.5	5.0	7.6

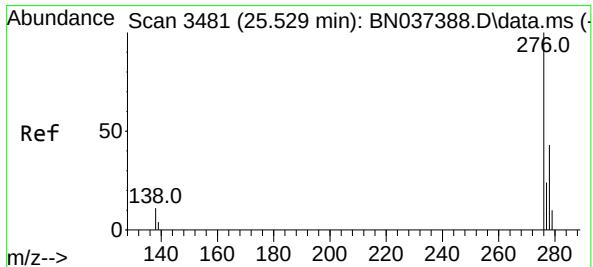
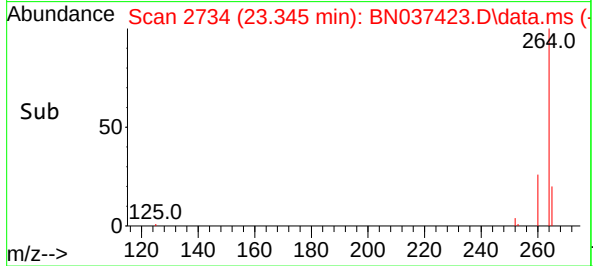
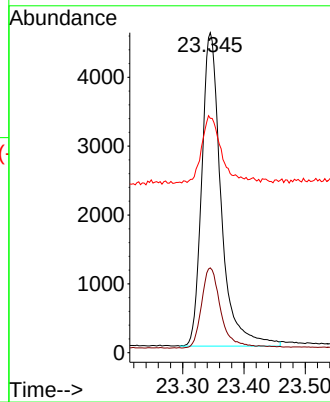
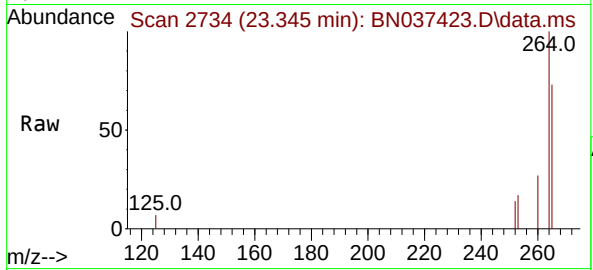




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.345 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

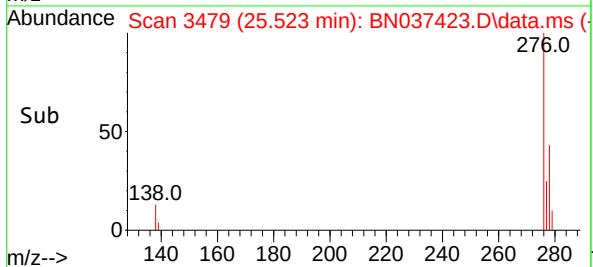
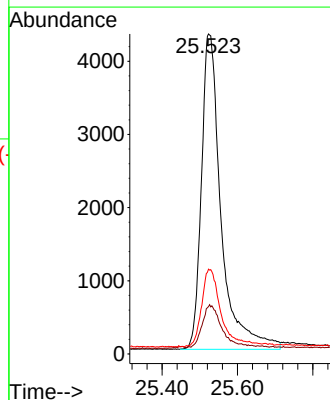
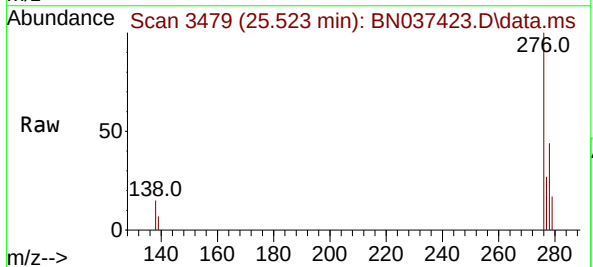
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

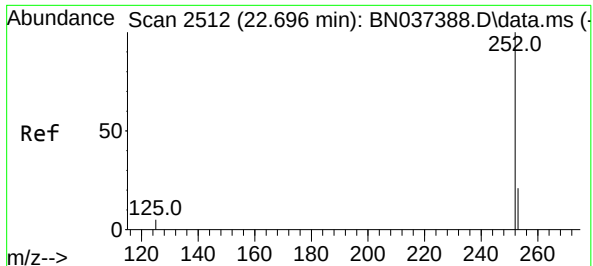
Tgt Ion:	264	Resp:	9970
Ion Ratio	Lower	Upper	
264	100		
260	26.5	21.4	32.0
265	73.2	56.2	84.4



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.372 ng
RT: 25.523 min Scan# 3479
Delta R.T. -0.006 min
Lab File: BN037423.D
Acq: 27 Jun 2025 15:34

Tgt Ion:	276	Resp:	15653
Ion Ratio	Lower	Upper	
276	100		
138	13.5	8.5	12.7#
277	23.4	19.7	29.5





#37

Benzo(b)fluoranthene

Concen: 0.387 ng

RT: 22.693 min Scan# 2511

Delta R.T. -0.003 min

Lab File: BN037423.D

Acq: 27 Jun 2025 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

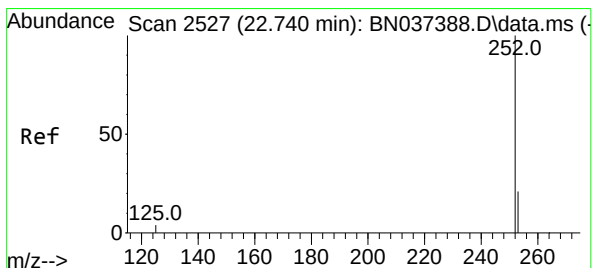
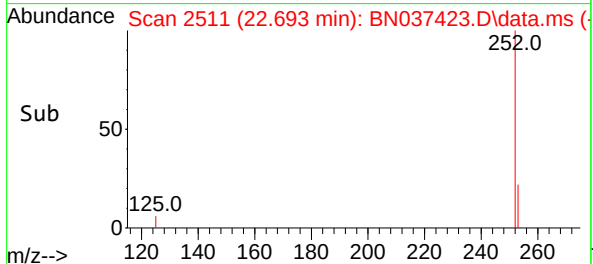
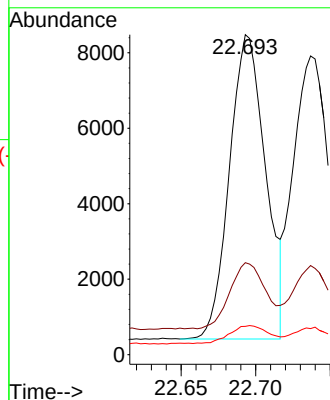
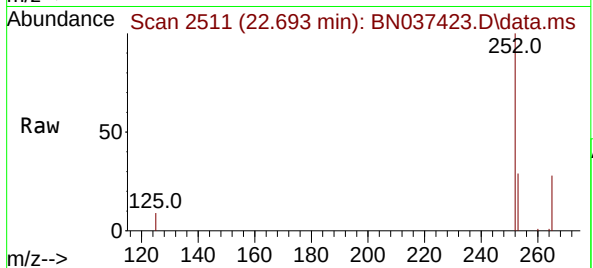
Tgt Ion:252 Resp: 13588

Ion Ratio Lower Upper

252 100

253 28.7 22.8 34.2

125 8.9 6.2 9.4



#38

Benzo(k)fluoranthene

Concen: 0.382 ng

RT: 22.737 min Scan# 2526

Delta R.T. -0.003 min

Lab File: BN037423.D

Acq: 27 Jun 2025 15:34

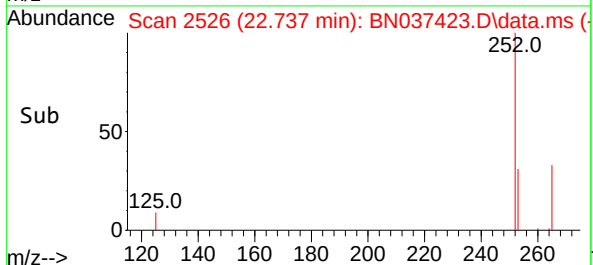
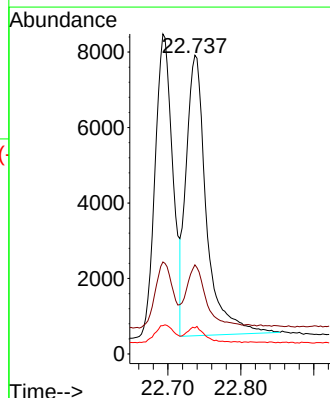
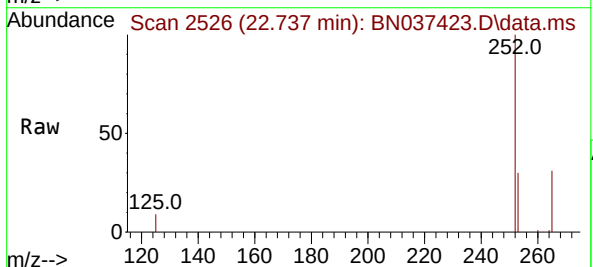
Tgt Ion:252 Resp: 14365

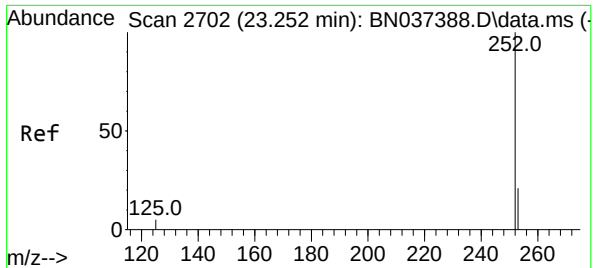
Ion Ratio Lower Upper

252 100

253 29.9 23.2 34.8

125 8.8 6.0 9.0





#39

Benzo(a)pyrene

Concen: 0.379 ng

RT: 23.251 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037423.D

Acq: 27 Jun 2025 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

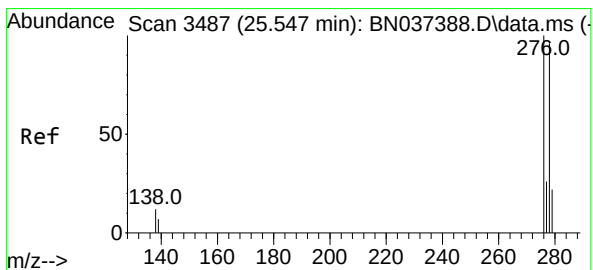
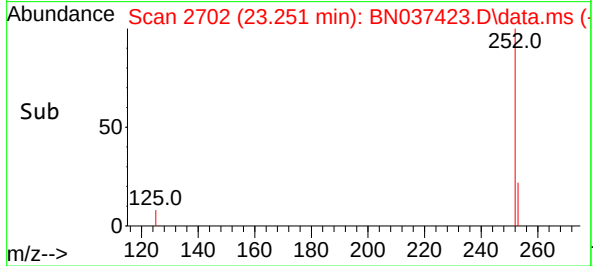
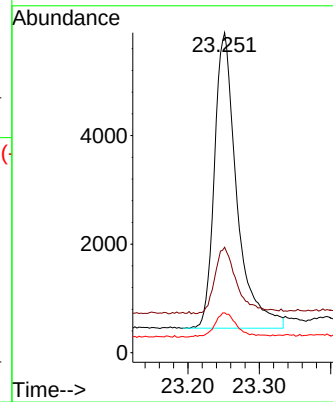
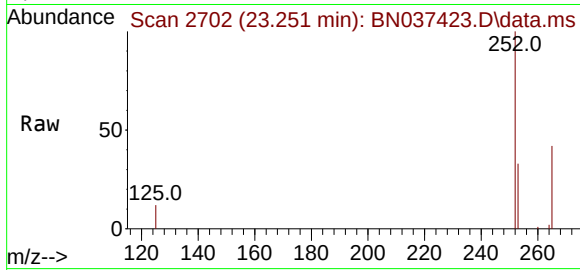
Tgt Ion:252 Resp: 11844

Ion Ratio Lower Upper

252 100

253 33.0 25.6 38.4

125 12.5 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.360 ng

RT: 25.541 min Scan# 3485

Delta R.T. -0.006 min

Lab File: BN037423.D

Acq: 27 Jun 2025 15:34

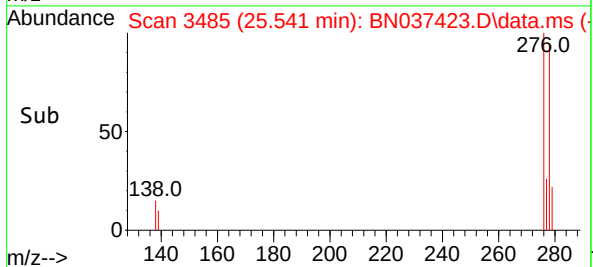
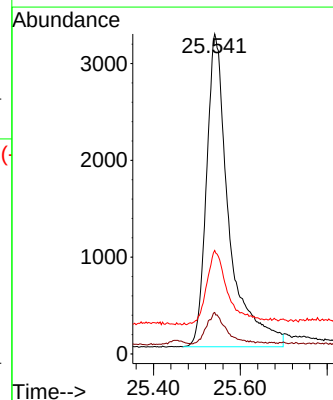
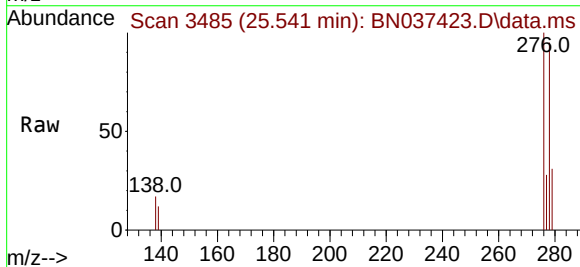
Tgt Ion:278 Resp: 11618

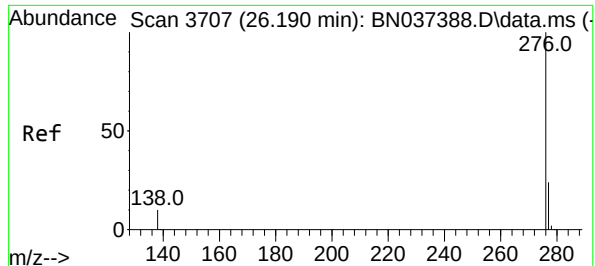
Ion Ratio Lower Upper

278 100

139 13.0 8.5 12.7#

279 32.4 27.5 41.3





#41

Benzo(g,h,i)perylene

Concen: 0.365 ng

RT: 26.187 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037423.D

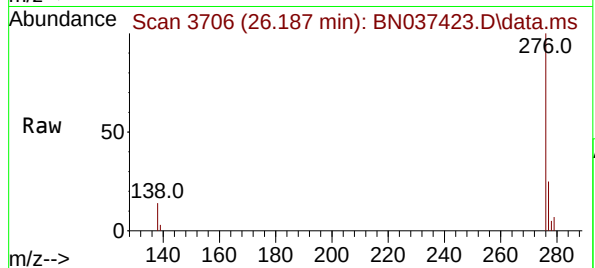
Acq: 27 Jun 2025 15:34

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



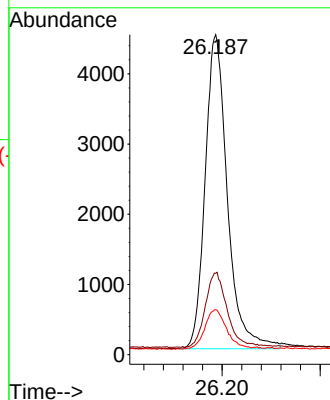
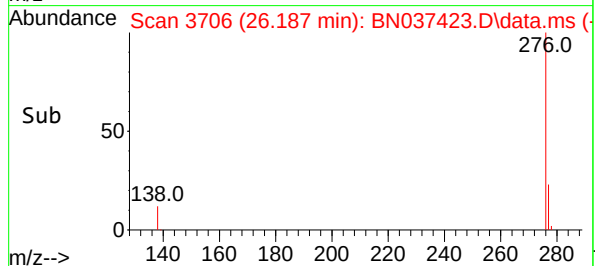
Tgt Ion:276 Resp: 14102

Ion Ratio Lower Upper

276 100

277 25.4 21.0 31.4

138 14.0 9.6 14.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062725\
Data File : BN037423.D
Acq On : 27 Jun 2025 15:34
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 27 16:20:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 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	144	0.00
2	1,4-Dioxane	0.379	0.383	-1.1	150#	0.00
3	n-Nitrosodimethylamine	0.375	0.341	9.1	132	0.00
4 S	2-Fluorophenol	0.771	0.857	-11.2	154#	0.00
5 S	Phenol-d6	0.799	0.861	-7.8	153#	0.00
6	bis(2-Chloroethyl)ether	0.711	0.674	5.2	135	0.00
7 I	Naphthalene-d8	1.000	1.000	0.0	151#	-0.01
8 S	Nitrobenzene-d5	0.321	0.290	9.7	141	-0.01
9	Naphthalene	1.030	1.008	2.1	152#	-0.01
10	Hexachlorobutadiene	0.409	0.374	8.6	137	-0.01
11 SURR	2-Methylnaphthalene-d10	0.619	0.609	1.6	160#	0.00
12	2-Methylnaphthalene	0.709	0.702	1.0	155#	0.00
13 I	Acenaphthene-d10	1.000	1.000	0.0	161#	0.00
14 S	2,4,6-Tribromophenol	0.235	0.221	6.0	149	0.00
15 S	2-Fluorobiphenyl	1.727	1.640	5.0	153#	0.00
16	Acenaphthylene	1.659	1.546	6.8	158#	-0.01
17	Acenaphthene	1.083	1.051	3.0	162#	-0.01
18	Fluorene	1.530	1.474	3.7	161#	-0.01
19 I	Phenanthrene-d10	1.000	1.000	0.0	170#	0.00
20	4,6-Dinitro-2-methylphenol	0.103	0.061	40.8#	122	0.00
21	4-Bromophenyl-phenylether	0.282	0.244	13.5	154#	0.00
22	Hexachlorobenzene	0.303	0.288	5.0	162#	0.00
23	Atrazine	0.224	0.200	10.7	160#	-0.01
24	Pentachlorophenol	0.164	0.131	20.1	144	0.00
25	Phenanthrene	1.127	1.060	5.9	166#	-0.01
26	Anthracene	1.036	0.952	8.1	167#	0.00
27 SURR	Fluoranthene-d10	1.146	1.092	4.7	174#	0.00
28	Fluoranthene	1.439	1.402	2.6	175#	0.00
29 I	Chrysene-d12	1.000	1.000	0.0	175#	0.00
30	Pyrene	1.514	1.526	-0.8	174#	0.00
31 S	Terphenyl-d14	0.853	0.853	0.0	172#	0.00
32	Benzo(a)anthracene	1.257	1.250	0.6	187#	0.00
33	Chrysene	1.556	1.449	6.9	160#	0.00
34	Bis(2-ethylhexyl)phthalate	0.498	0.539	-8.2	187#	0.00
35 I	Perylene-d12	1.000	1.000	0.0	168#	0.00
36	Indeno(1,2,3-cd)pyrene	1.686	1.570	6.9	167#	0.00
37	Benzo(b)fluoranthene	1.410	1.363	3.3	173#	0.00
38	Benzo(k)fluoranthene	1.507	1.441	4.4	165#	0.00
39 C	Benzo(a)pyrene	1.254	1.188	5.3	168#	0.00
40	Dibenzo(a,h)anthracene	1.296	1.165	10.1	161#	0.00
41	Benzo(g,h,i)perylene	1.548	1.414	8.7	160#	0.00

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062725\
Data File : BN037423.D
Acq On : 27 Jun 2025 15:34
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Jun 27 16:20:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 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	144	0.00
2	1,4-Dioxane	0.400	0.404	-1.0	150	0.00
3	n-Nitrosodimethylamine	0.400	0.364	9.0	132	0.00
4 S	2-Fluorophenol	0.400	0.445	-11.2	154	0.00
5 S	Phenol-d6	0.400	0.431	-7.7	153	0.00
6	bis(2-Chloroethyl)ether	0.400	0.379	5.3	135	0.00
7 I	Naphthalene-d8	0.400	0.400	0.0	151	-0.01
8 S	Nitrobenzene-d5	0.400	0.362	9.5	141	-0.01
9	Naphthalene	0.400	0.392	2.0	152	-0.01
10	Hexachlorobutadiene	0.400	0.366	8.5	137	-0.01
11 SURR	2-Methylnaphthalene-d10	0.400	0.394	1.5	160	0.00
12	2-Methylnaphthalene	0.400	0.396	1.0	155	0.00
13 I	Acenaphthene-d10	0.400	0.400	0.0	161	0.00
14 S	2,4,6-Tribromophenol	0.400	0.377	5.8	149	0.00
15 S	2-Fluorobiphenyl	0.400	0.380	5.0	153	0.00
16	Acenaphthylene	0.400	0.373	6.8	158	-0.01
17	Acenaphthene	0.400	0.388	3.0	162	-0.01
18	Fluorene	0.400	0.385	3.8	161	-0.01
19 I	Phenanthrene-d10	0.400	0.400	0.0	170	0.00
20	4,6-Dinitro-2-methylphenol	0.400	0.238	40.5#	122	0.00
21	4-Bromophenyl-phenylether	0.400	0.346	13.5	154	0.00
22	Hexachlorobenzene	0.400	0.380	5.0	162	0.00
23	Atrazine	0.400	0.358	10.5	160	-0.01
24	Pentachlorophenol	0.400	0.320	20.0	144	0.00
25	Phenanthrene	0.400	0.376	6.0	166	-0.01
26	Anthracene	0.400	0.367	8.3	167	0.00
27 SURR	Fluoranthene-d10	0.400	0.381	4.8	174	0.00
28	Fluoranthene	0.400	0.390	2.5	175	0.00
29 I	Chrysene-d12	0.400	0.400	0.0	175	0.00
30	Pyrene	0.400	0.403	-0.8	174	0.00
31 S	Terphenyl-d14	0.400	0.400	0.0	172	0.00
32	Benzo(a)anthracene	0.400	0.398	0.5	187	0.00
33	Chrysene	0.400	0.373	6.8	160	0.00
34	Bis(2-ethylhexyl)phthalate	0.400	0.433	-8.2	187	0.00
35 I	Perylene-d12	0.400	0.400	0.0	168	0.00
36	Indeno(1,2,3-cd)pyrene	0.400	0.372	7.0	167	0.00
37	Benzo(b)fluoranthene	0.400	0.387	3.3	173	0.00
38	Benzo(k)fluoranthene	0.400	0.382	4.5	165	0.00
39 C	Benzo(a)pyrene	0.400	0.379	5.3	168	0.00
40	Dibenzo(a,h)anthracene	0.400	0.360	10.0	161	0.00
41	Benzo(g,h,i)perylene	0.400	0.365	8.8	160	0.00

(#) = Out of Range

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



QC SAMPLE DATA

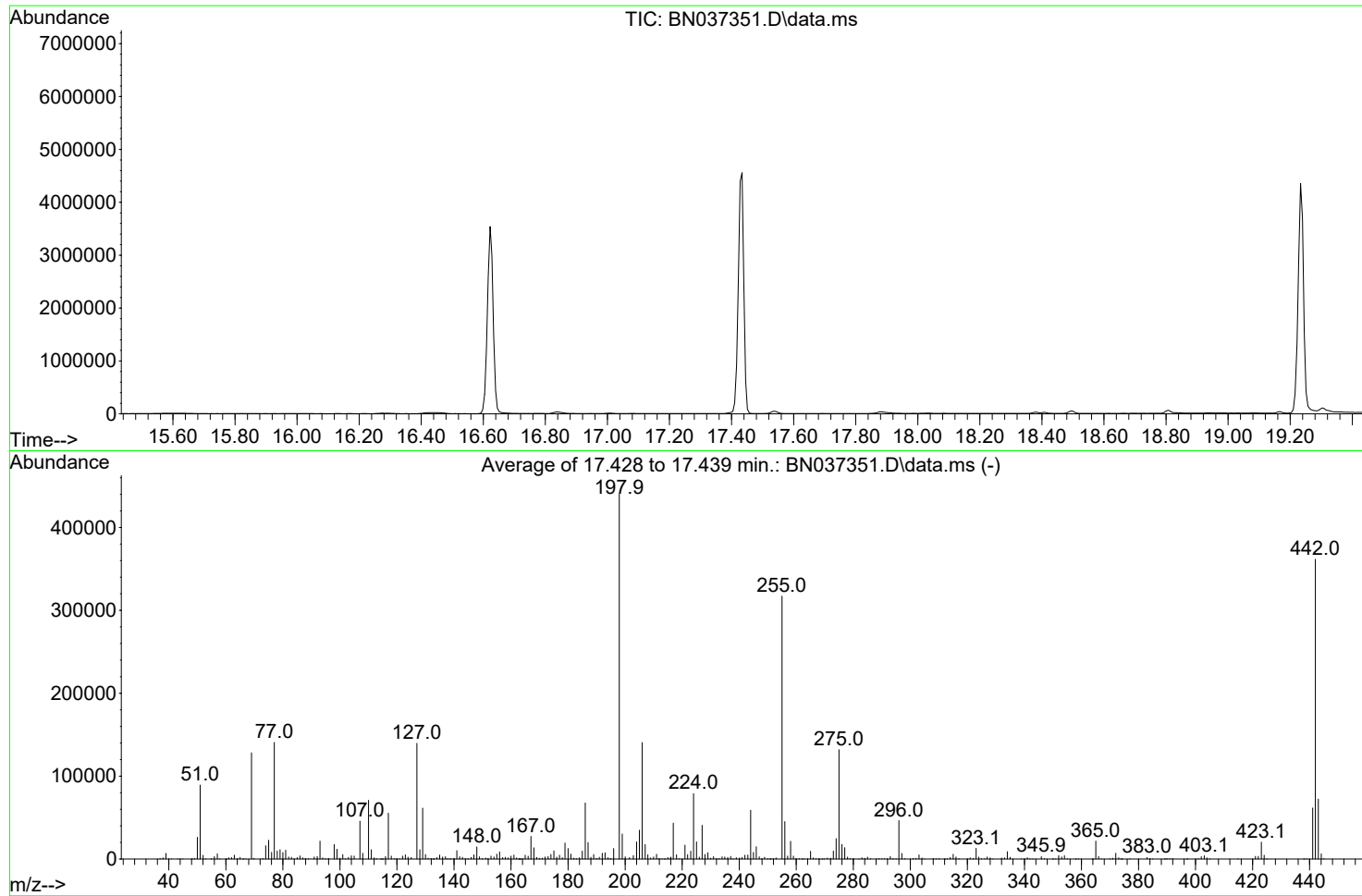
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037351.D
Acq On : 20 Jun 2025 15:00
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-BN062125.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 20 23:41:54 2025



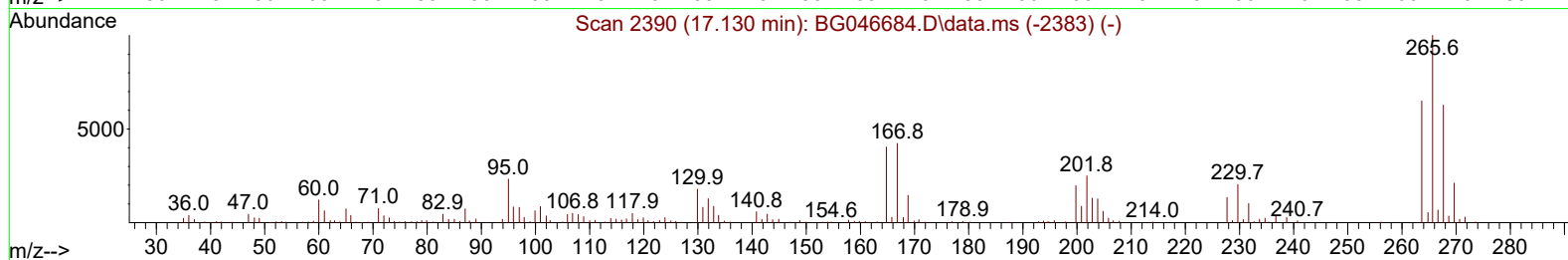
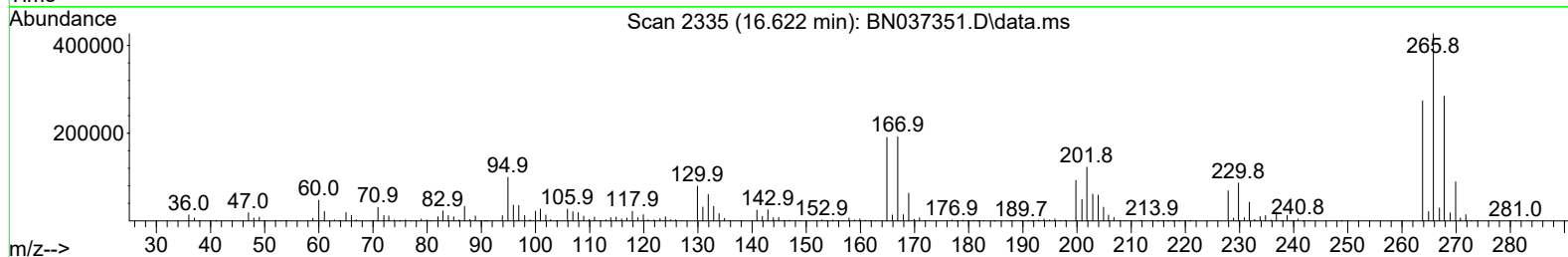
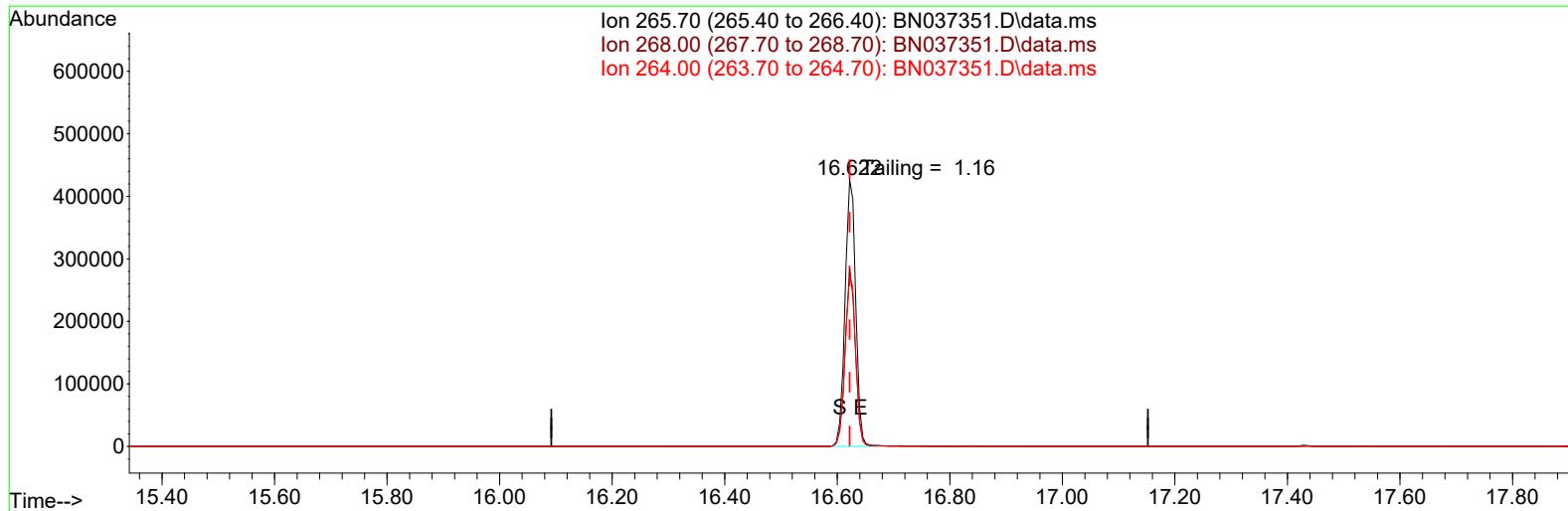
AutoFind: Scans 2472, 2473, 2474; Background Corrected with Scan 2464

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	0.0	0	PASS
69	69	100	100	100.0	128141	PASS
70	69	0.00	2	0.7	882	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	440469	PASS
199	198	5	9	6.8	30163	PASS
365	198	1	100	4.9	21610	PASS
441	443	0.01	150	85.2	61520	PASS
442	442	100	100	100.0	361557	PASS
443	442	15	24	20.0	72213	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037351.D
Acq On : 20 Jun 2025 15:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 21 02:21:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jun 21 02:21:08 2025
Response via : Initial Calibration



TIC: BN037351.D\data.ms

(70) Pentachlorophenol (C)

16.622min (0.000) 21508.69 ng

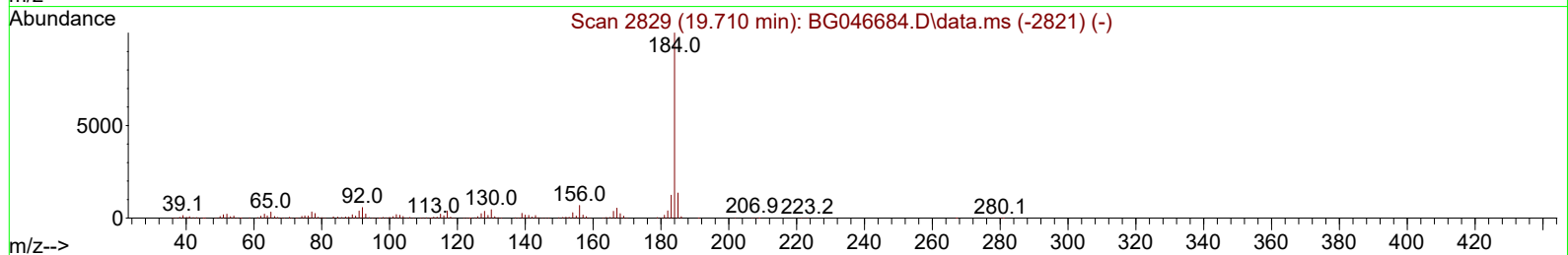
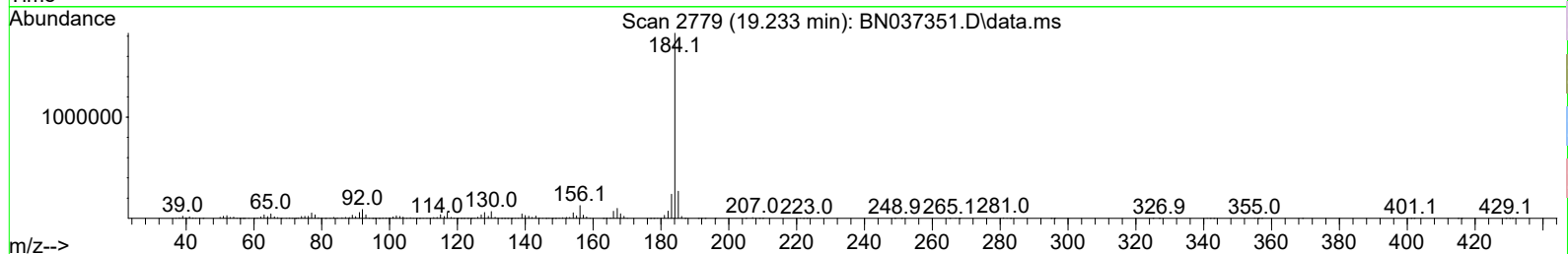
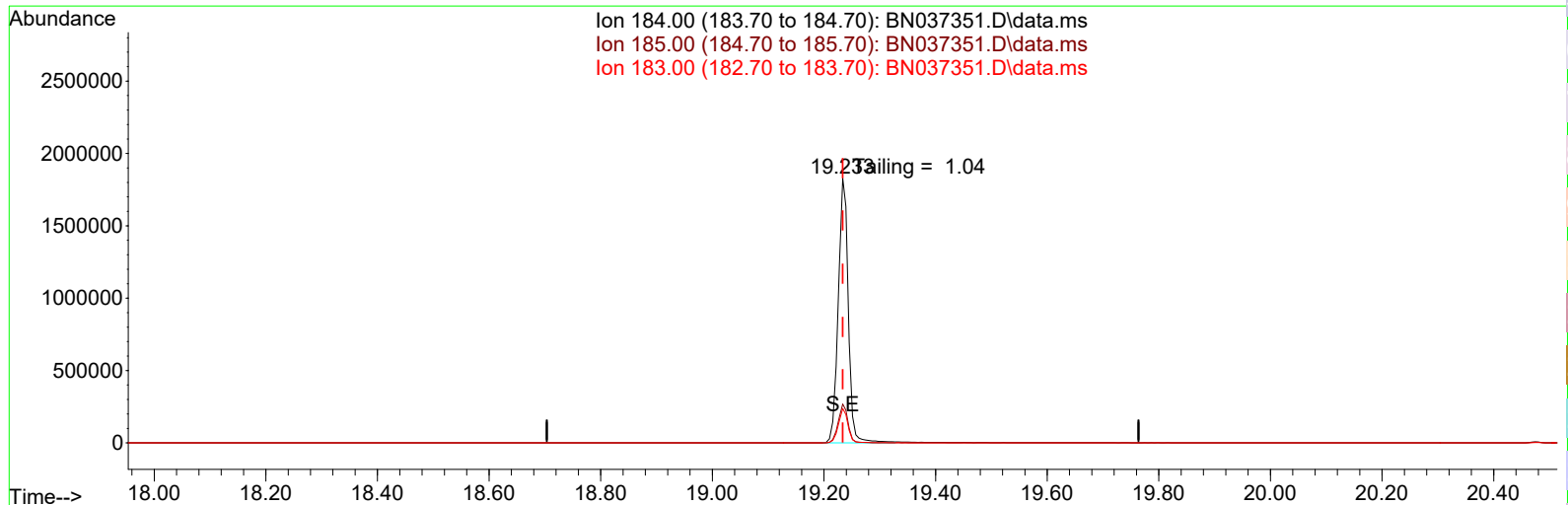
response 561749

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	66.53
264.00	61.60	64.10
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037351.D
Acq On : 20 Jun 2025 15:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 21 02:21:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jun 21 02:21:08 2025
Response via : Initial Calibration



TIC: BN037351.D\data.ms

(77) Benzidine

19.233min (0.000) 0.00 ng

response 2309913

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.66
183.00	13.20	13.00
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

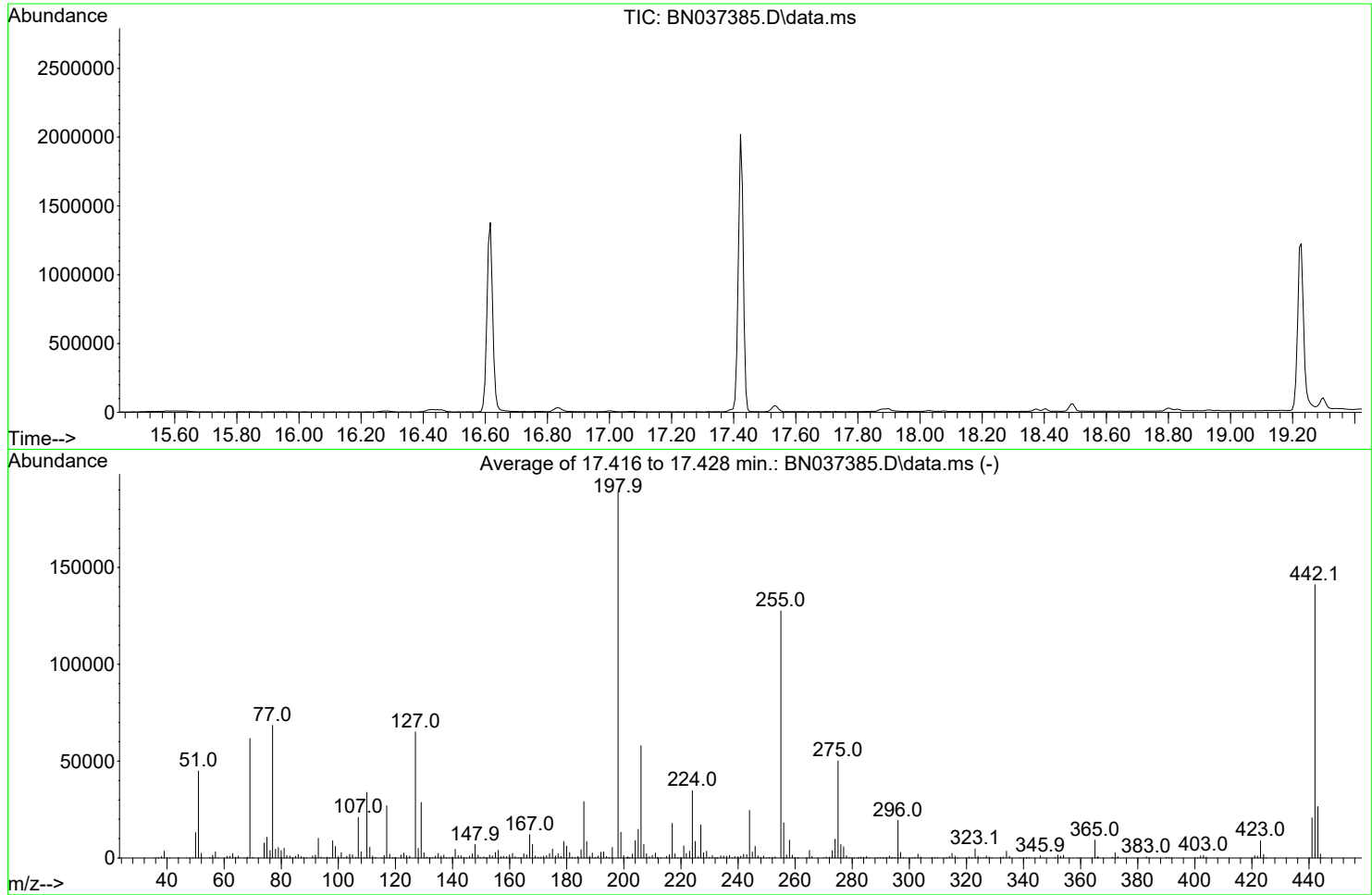
Date	Instrument Name	DFTPP Data File
6/21/2025	BNA_N	<u>BN037351.D</u>
Compound Name	Response	Retention Time
DDT	1600198	20.475
DDD	22591	20.257
DDE	1214	19.522
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
23805	1624003	1.47

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037385.D
Acq On : 26 Jun 2025 10:01
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-BN062625.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jun 26 16:06:33 2025



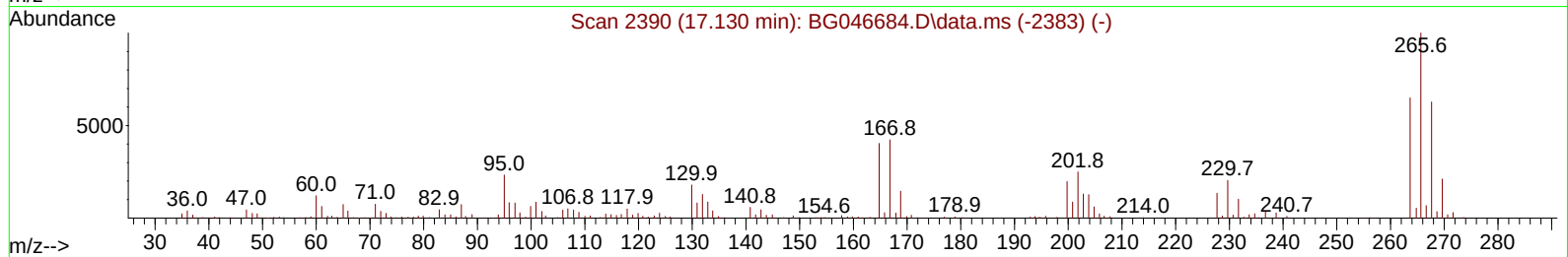
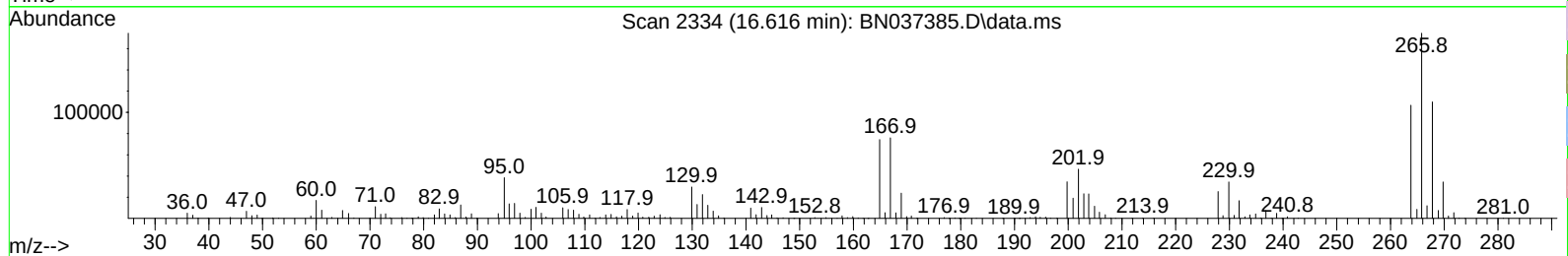
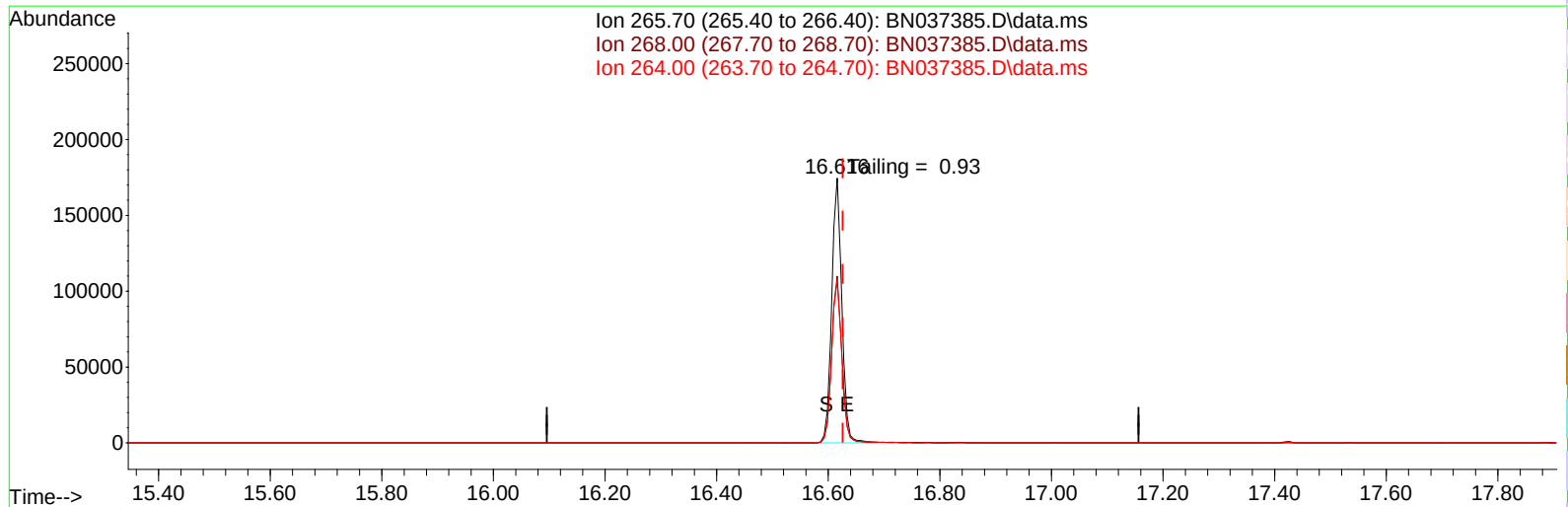
AutoFind: Scans 2470, 2471, 2472; Background Corrected with Scan 2464

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	0.9	565	PASS
69	69	100	100	100.0	61709	PASS
70	69	0.00	2	0.6	395	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	188693	PASS
199	198	5	9	7.1	13336	PASS
365	198	1	100	4.9	9289	PASS
441	443	0.01	150	78.0	20689	PASS
442	442	100	100	100.0	141205	PASS
443	442	15	24	18.8	26534	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037385.D
Acq On : 26 Jun 2025 10:01
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 26 17:27:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jun 21 02:21:08 2025
Response via : Initial Calibration



TIC: BN037385.D\data.ms

(70) Pentachlorophenol (C)

16.616min (-0.010) 22827.65 ng

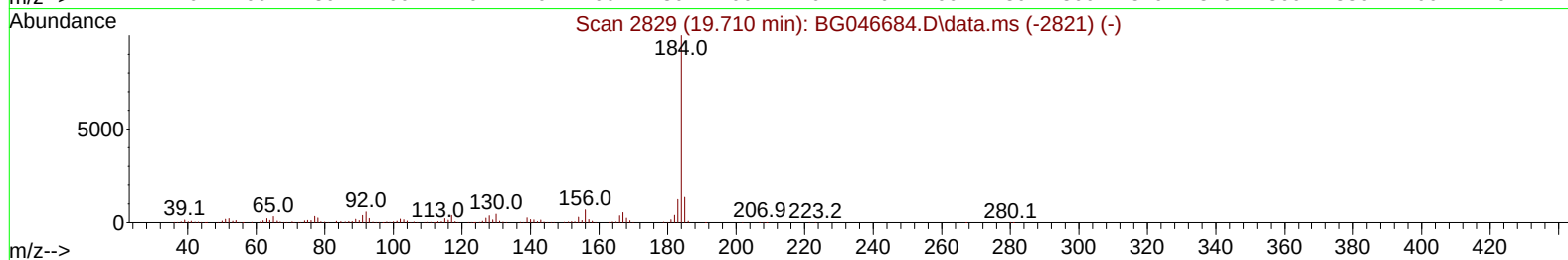
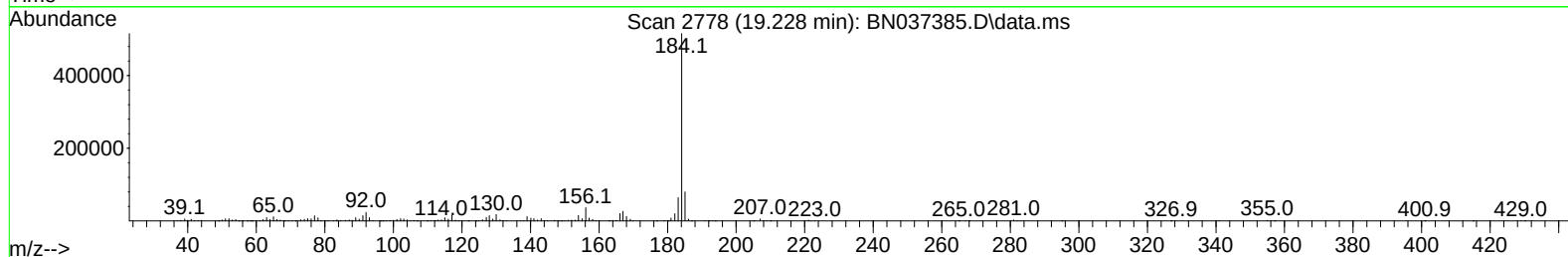
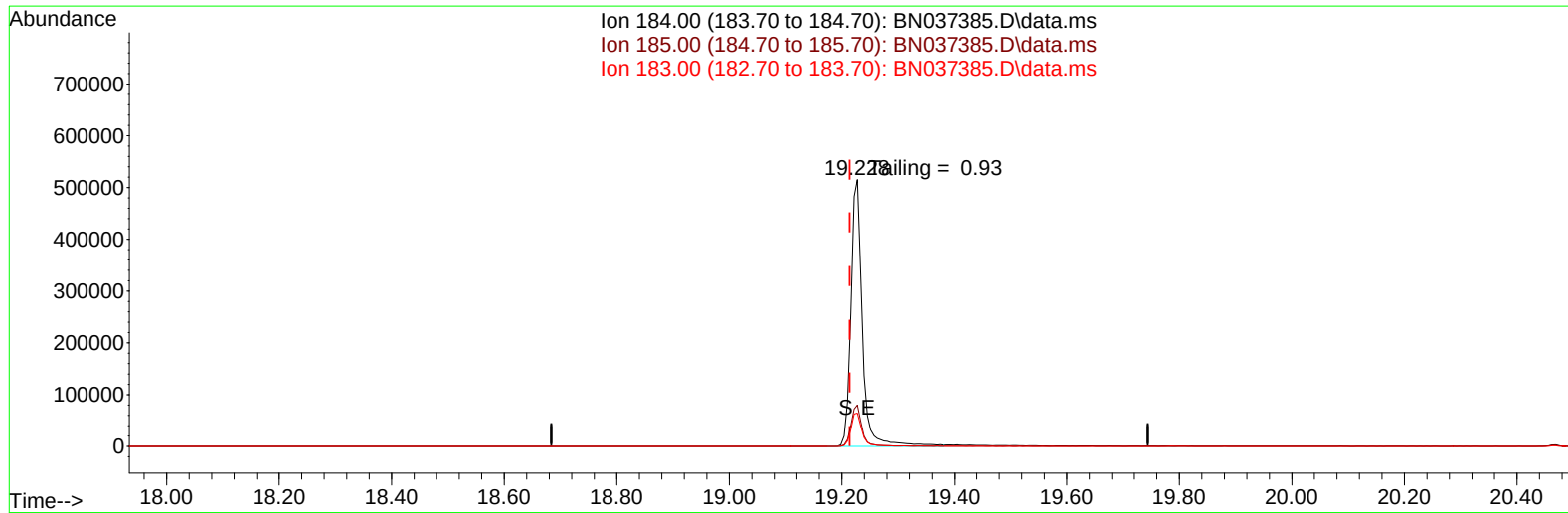
response 218916

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.95
264.00	61.60	61.18
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037385.D
Acq On : 26 Jun 2025 10:01
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 26 17:27:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Jun 21 02:21:08 2025
Response via : Initial Calibration



TIC: BN037385.D\data.ms

(77) Benzidine

19.228min (+ 0.014) 0.00 ng

response 733495

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	15.54
183.00	13.20	12.50
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

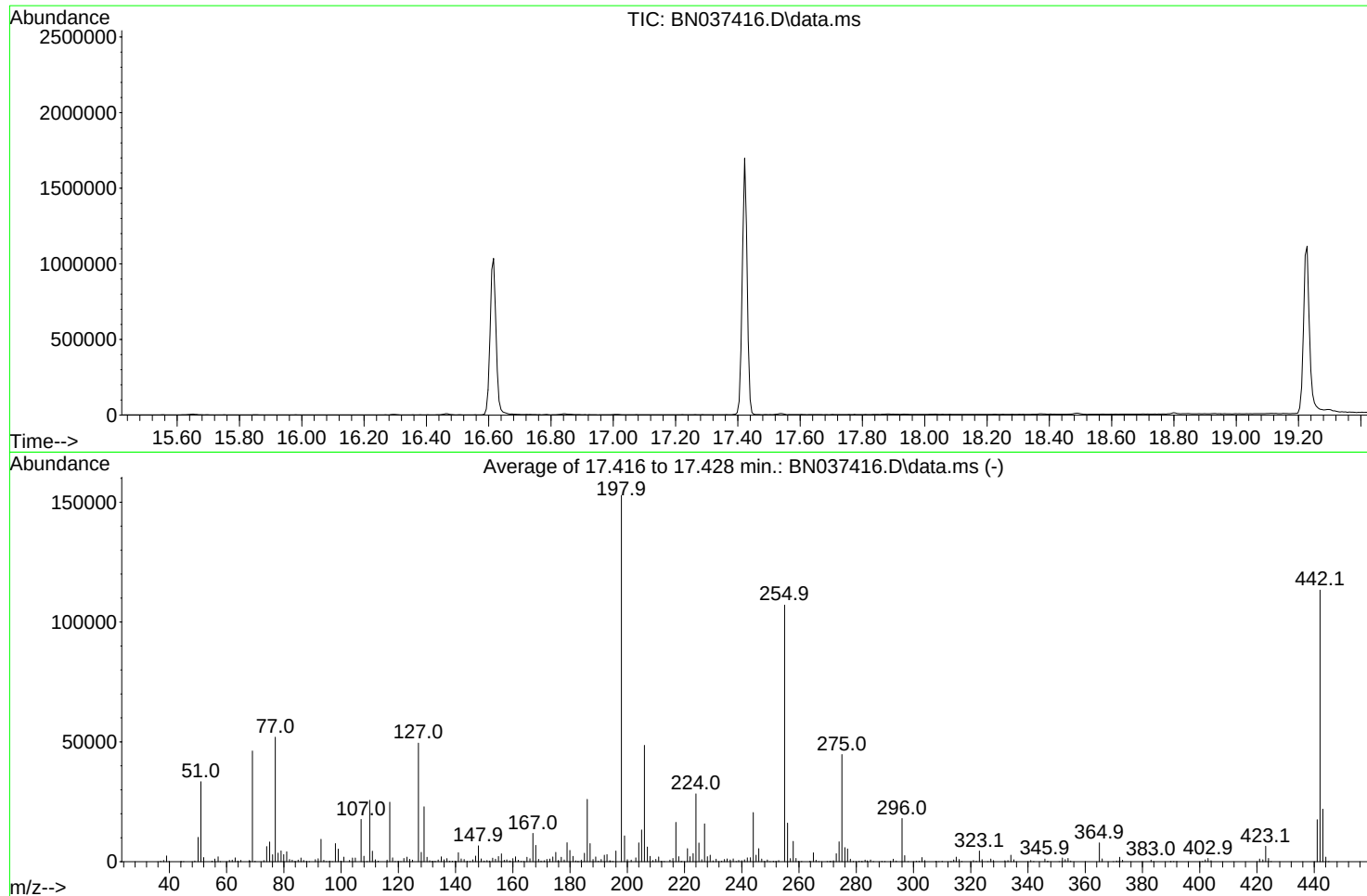
Date	Instrument Name	DFTPP Data File
6/26/2025	BNA_N	<u>BN037385.D</u>
Compound Name	Response	Retention Time
DDT	575237	20.469
DDD	9375	20.028
DDE	1379	19.516
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
10754	585991	1.84

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062725\
Data File : BN037416.D
Acq On : 27 Jun 2025 09:30
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Jun 27 04:09:23 2025



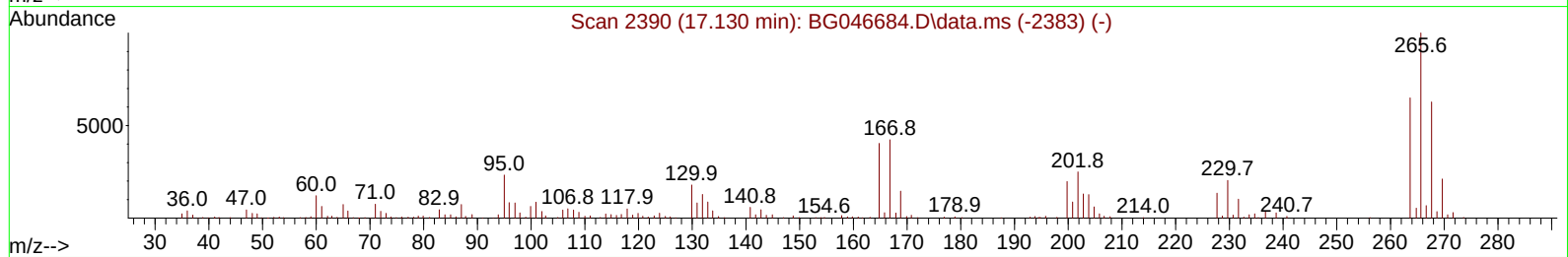
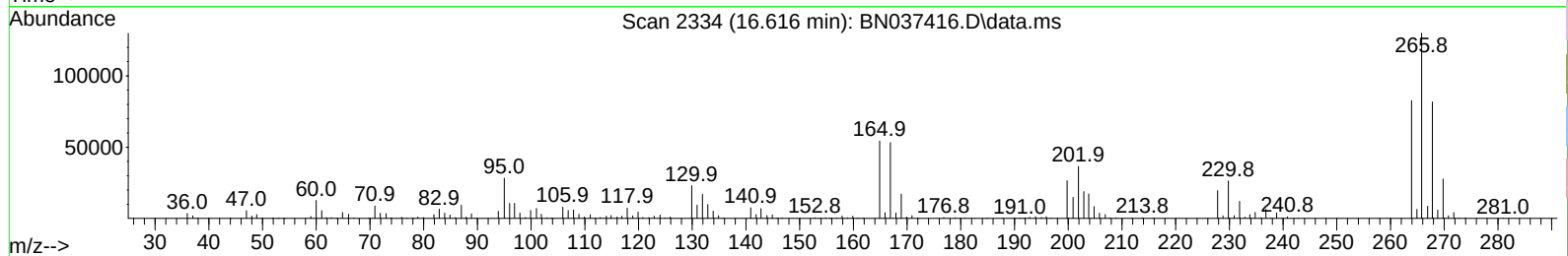
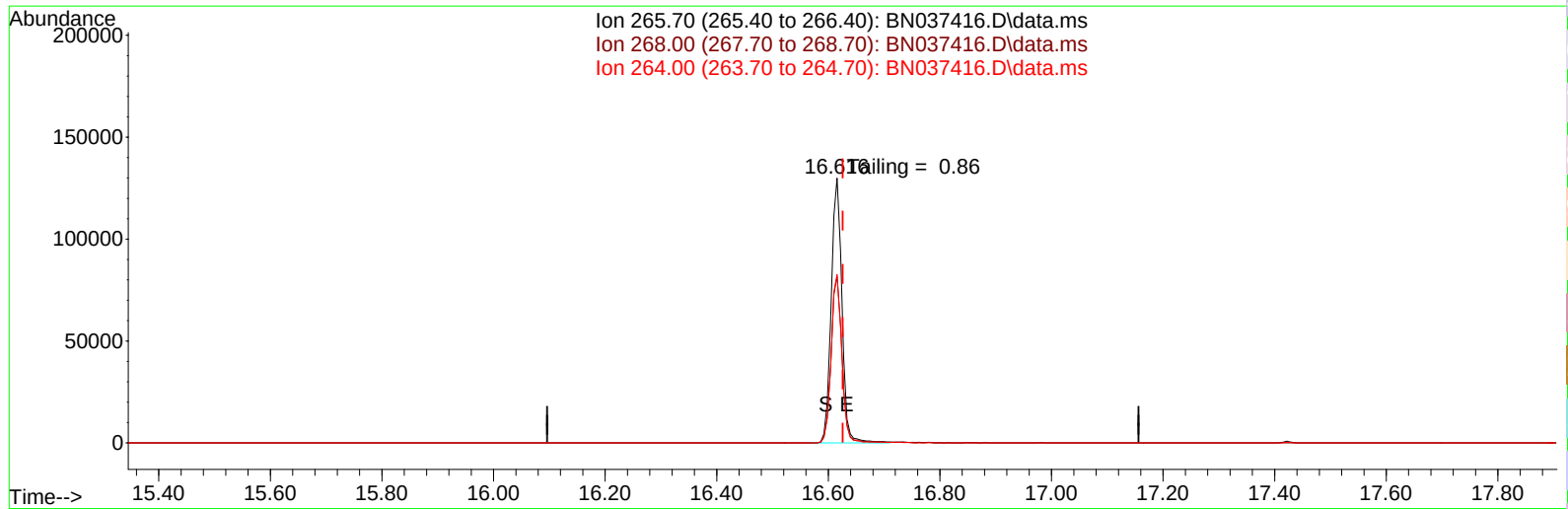
AutoFind: Scans 2470, 2471, 2472; Background Corrected with Scan 2463

Target	Rel. to	Lower	Upper	Rel.	Raw	Result
Mass	Mass	Limit%	Limit%	Abn%	Abn	Pass/Fail
68	69	0.00	2	1.1	485	PASS
69	69	100	100	100.0	46181	PASS
70	69	0.00	2	0.6	273	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	152824	PASS
199	198	5	9	7.1	10807	PASS
365	198	1	100	5.1	7868	PASS
441	443	0.01	150	79.9	17524	PASS
442	442	100	100	100.0	113360	PASS
443	442	15	24	19.3	21933	PASS

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062725\
Data File : BN037416.D
Acq On : 27 Jun 2025 09:30
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 27 15:30:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 27 04:09:23 2025
Response via : Initial Calibration



TIC: BN037416.D\data.ms

(70) Pentachlorophenol (C)

16.616min (-0.010) 18836.45 ng

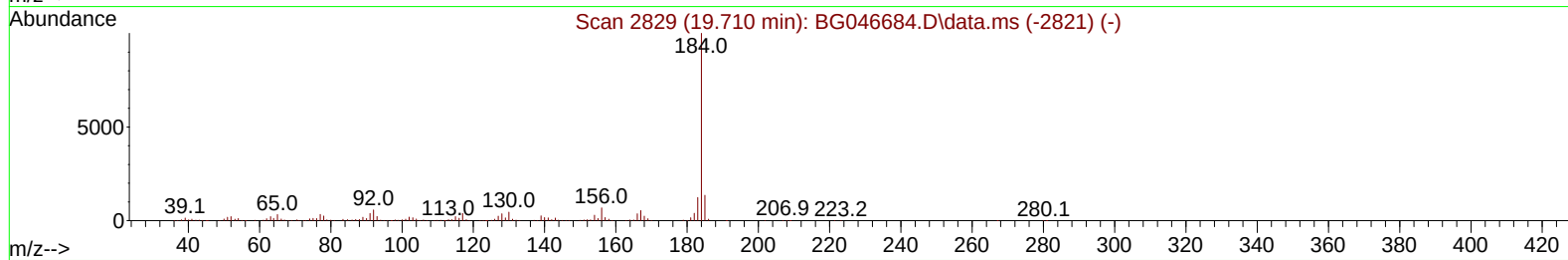
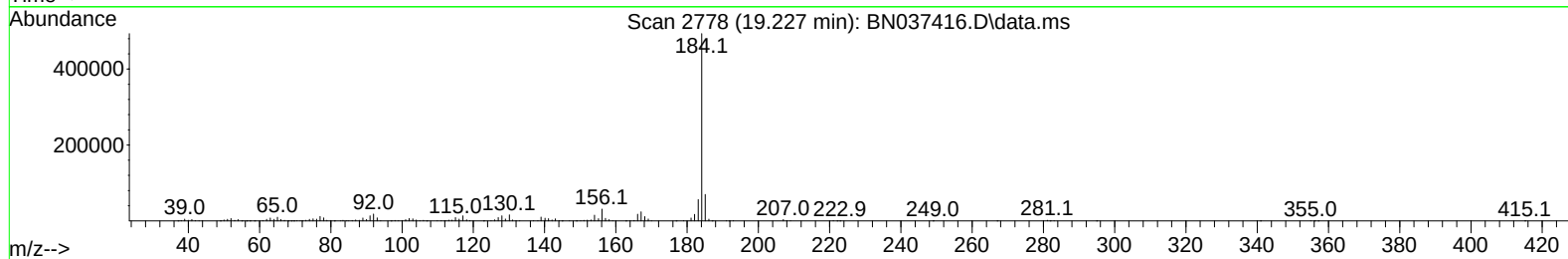
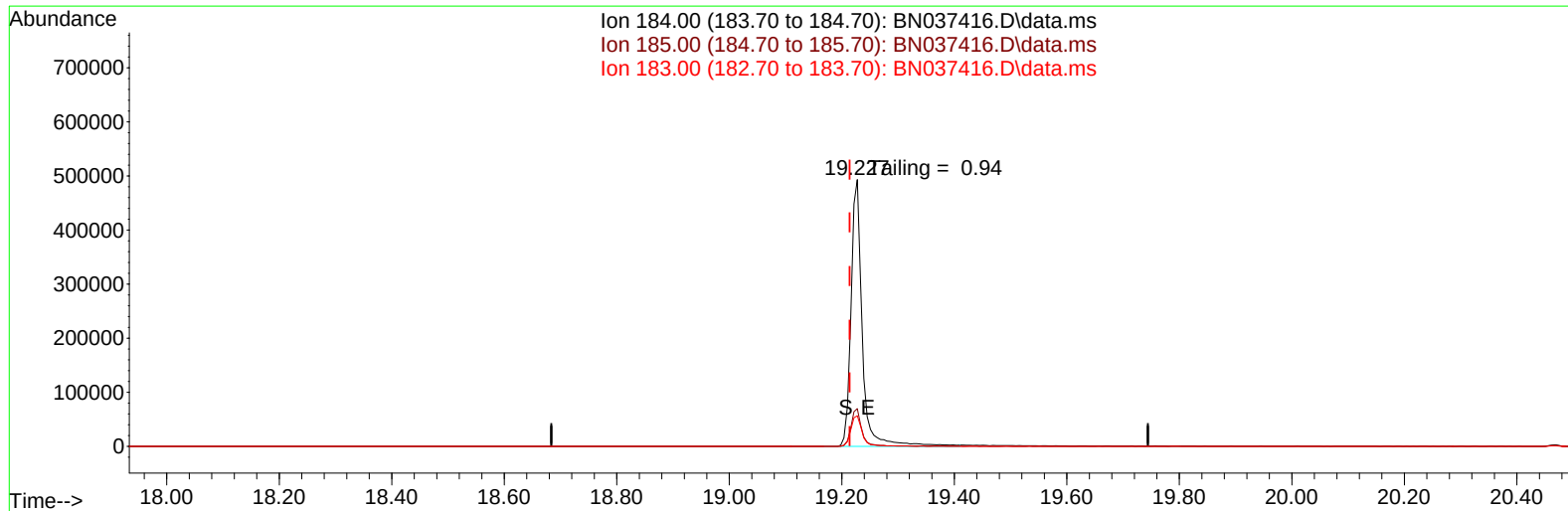
response 173545

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.94
264.00	61.60	63.65
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062725\
Data File : BN037416.D
Acq On : 27 Jun 2025 09:30
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Jun 27 15:30:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 27 04:09:23 2025
Response via : Initial Calibration



TIC: BN037416.D\data.ms

(77) Benzidine

19.227min (+ 0.013) 0.00 ng

response 690171

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.12
183.00	13.20	11.44
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
6/27/2025	BNA_N	<u>BN037416.D</u>
Compound Name	Response	Retention Time
DDT	549318	20.469
DDD	13683	20.027
DDE	2707	19.516
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
16390	565708	2.90

Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB168563BL	SDG No.:	Q2345
Lab Sample ID:	PB168563BL	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037361.D	1	06/20/25 09:32	06/20/25 22:16	PB168563

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.20	U	0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.32		30 - 150		81%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.37		30 - 150		93%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.30		55 - 111		75%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.33		53 - 106		81%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.37		58 - 132		93%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1970	7.568				
1146-65-2	Naphthalene-d8	4050	10.351				
15067-26-2	Acenaphthene-d10	2740	14.224				
1517-22-2	Phenanthrene-d10	4860	16.984				
1719-03-5	Chrysene-d12	4290	21.171				
1520-96-3	Perylene-d12	3460	23.357				

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037361.D
Acq On : 20 Jun 2025 22:16
Operator : RC/JU
Sample : PB168563BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168563BL

Quant Time: Jun 20 23:51:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1968	0.400	ng	0.00
7) Naphthalene-d8	10.351	136	4045	0.400	ng	0.01
13) Acenaphthene-d10	14.224	164	2736	0.400	ng	0.01
19) Phenanthrene-d10	16.984	188	4864	0.400	ng	0.01
29) Chrysene-d12	21.171	240	4288	0.400	ng	# 0.00
35) Perylene-d12	23.357	264	3457	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	1419	0.361	ng	0.00
5) Phenol-d6	6.759	99	1185	0.293	ng	0.00
8) Nitrobenzene-d5	8.739	82	978	0.299	ng	0.02
11) 2-Methylnaphthalene-d10	11.960	152	2116	0.323	ng	0.02
14) 2,4,6-Tribromophenol	15.742	330	469	0.292	ng	0.02
15) 2-Fluorobiphenyl	12.853	172	3920	0.326	ng	0.02
27) Fluoranthene-d10	19.012	212	5207	0.373	ng	0.00
31) Terphenyl-d14	19.621	244	3648	0.373	ng	0.00

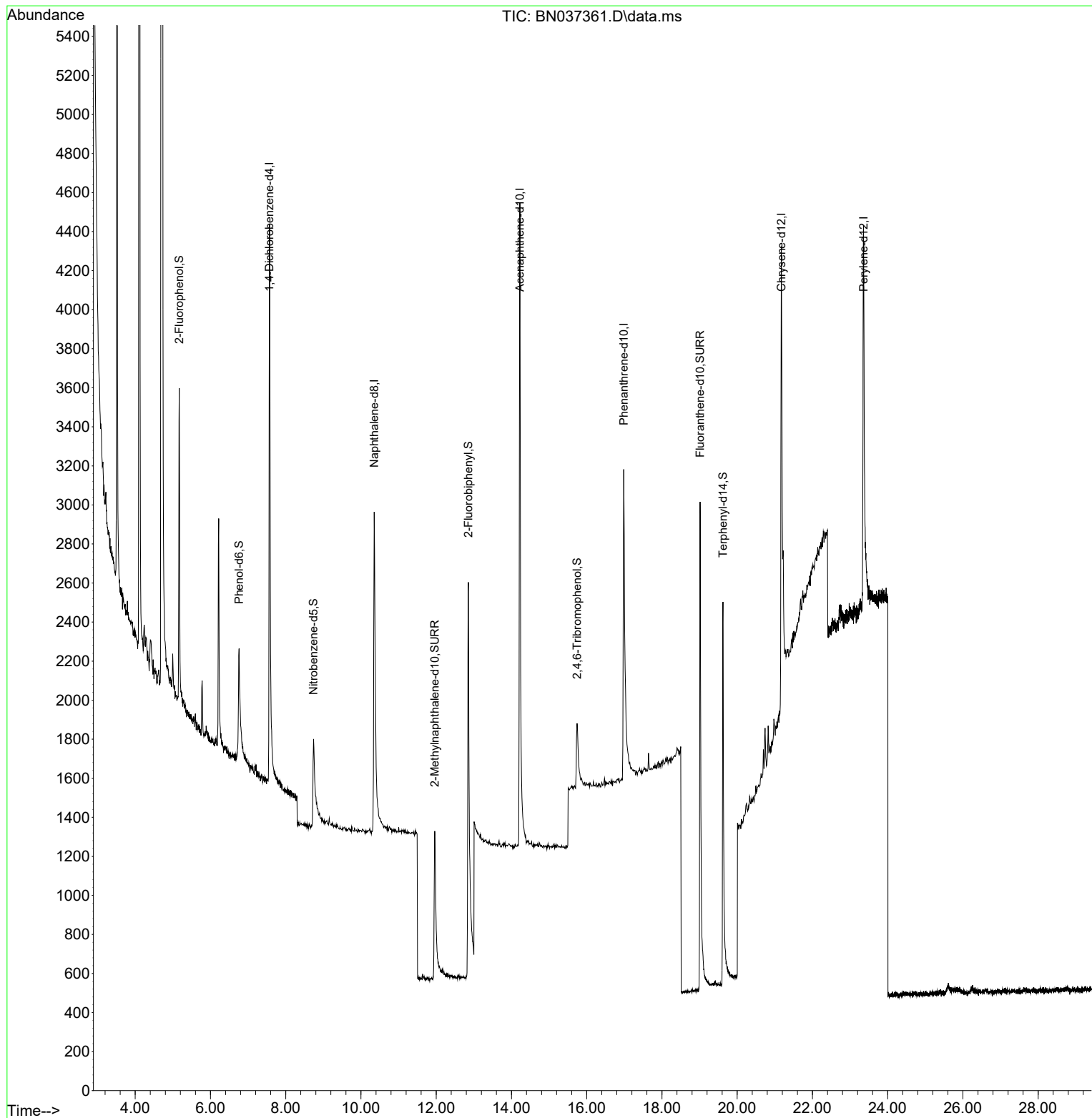
Target Compounds	Qvalue

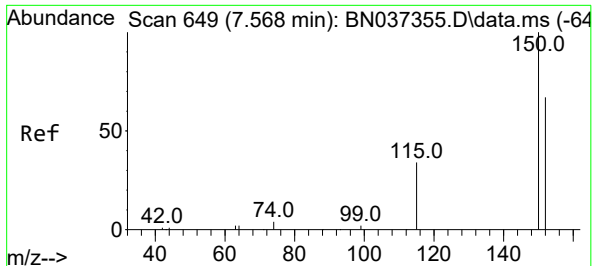
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037361.D
Acq On : 20 Jun 2025 22:16
Operator : RC/JU
Sample : PB168563BL
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168563BL

Quant Time: Jun 20 23:51:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration

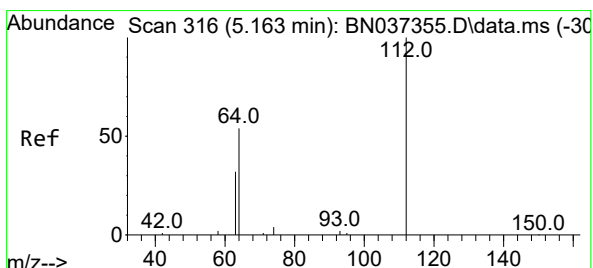
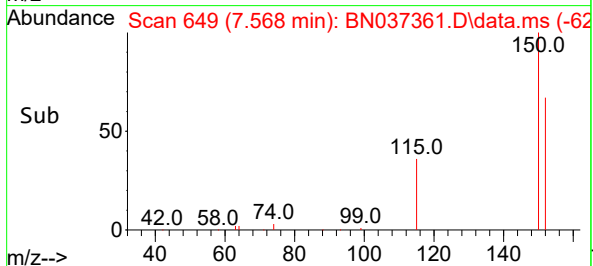
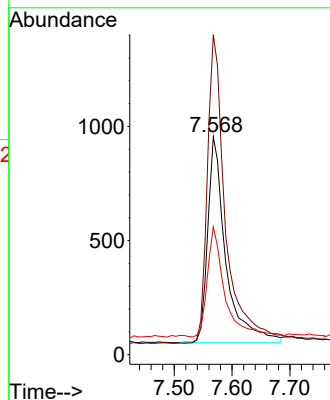
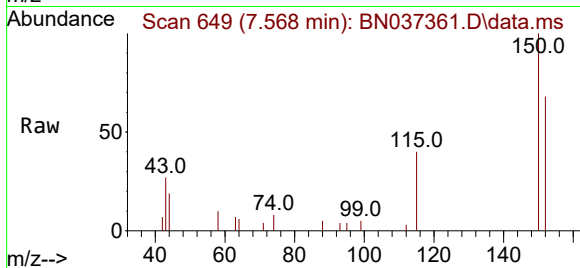




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

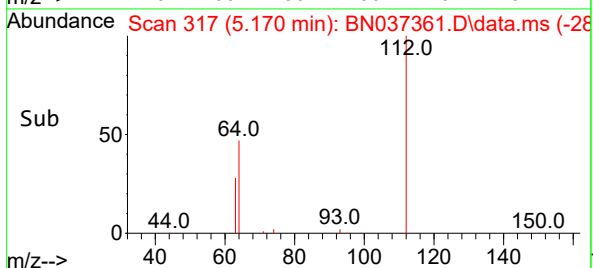
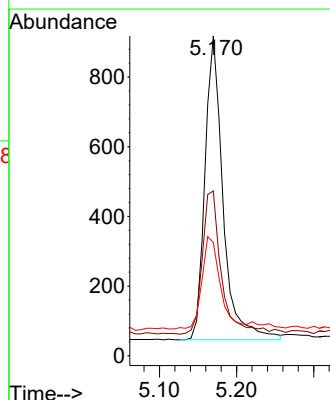
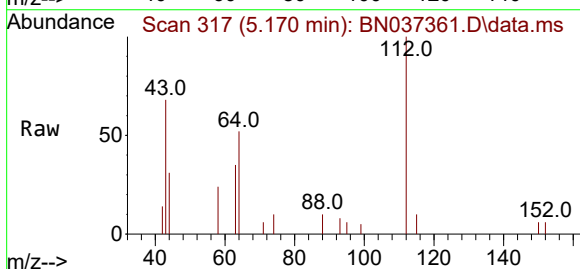
Instrument :
BNA_N
ClientSampleId :
PB168563BL

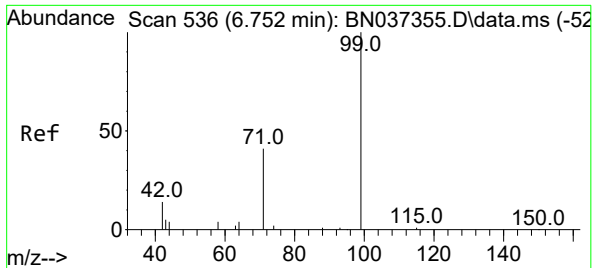
Tgt Ion:152 Resp: 1968
Ion Ratio Lower Upper
152 100
150 146.8 112.7 169.1
115 58.6 45.9 68.9



#4
2-Fluorophenol
Concen: 0.361 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Tgt Ion:112 Resp: 1419
Ion Ratio Lower Upper
112 100
64 50.4 38.7 58.1
63 30.7 26.4 39.6

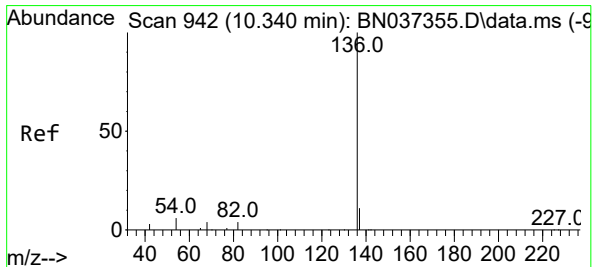
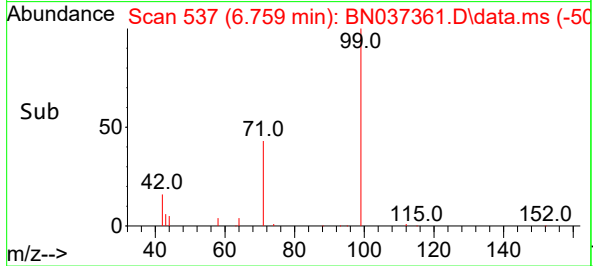
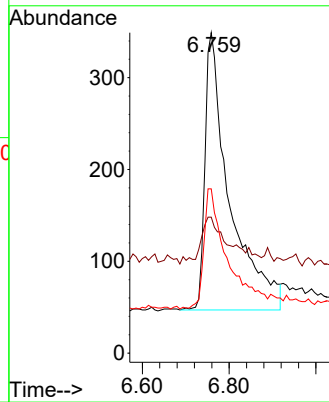
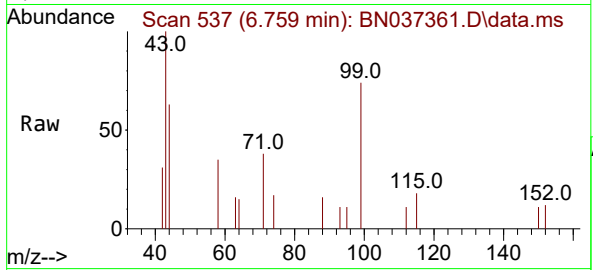




#5
Phenol-d6
Concen: 0.293 ng
RT: 6.759 min Scan# 51
Delta R.T. 0.007 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

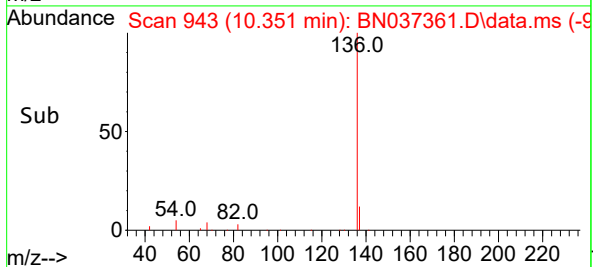
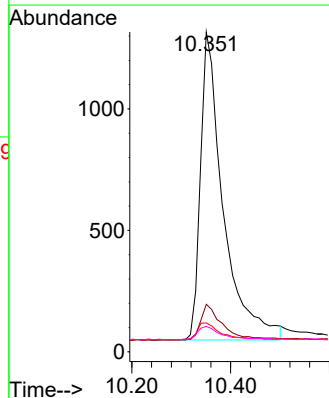
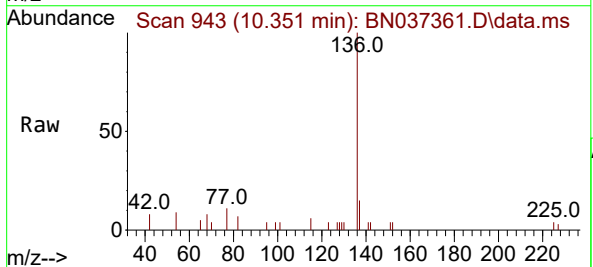
Instrument :
BNA_N
ClientSampleId :
PB168563BL

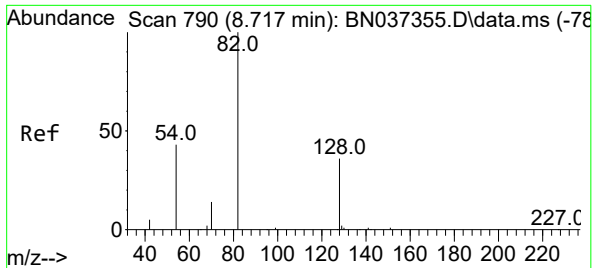
Tgt Ion: 99 Resp: 1185
Ion Ratio Lower Upper
99 100
42 19.7 19.8 29.8#
71 40.8 42.6 64.0#



#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.351 min Scan# 943
Delta R.T. 0.010 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Tgt Ion: 136 Resp: 4045
Ion Ratio Lower Upper
136 100
137 14.9 12.2 18.2
54 9.0 8.8 13.2
68 8.0 7.0 10.4

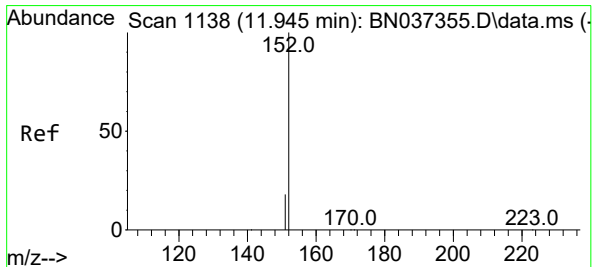
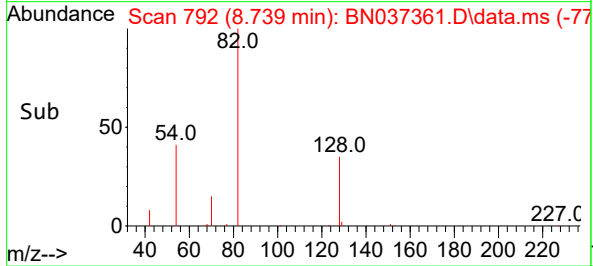
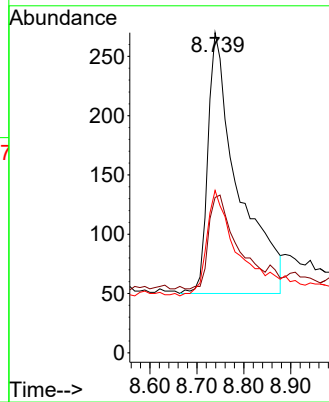
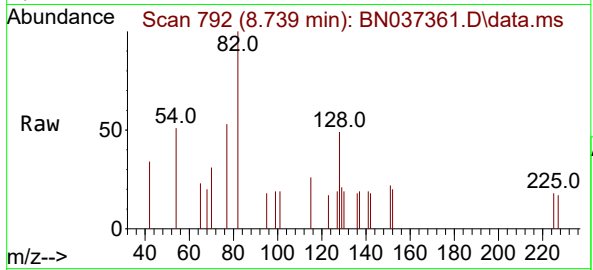




#8
Nitrobenzene-d5
Concen: 0.299 ng
RT: 8.739 min Scan# 791
Delta R.T. 0.021 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

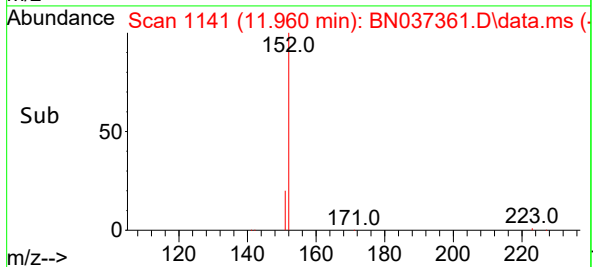
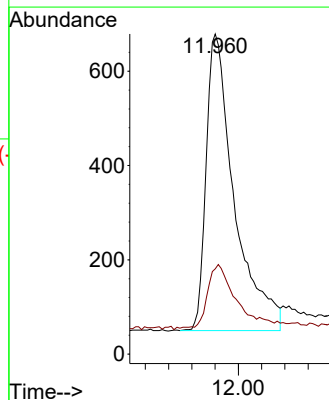
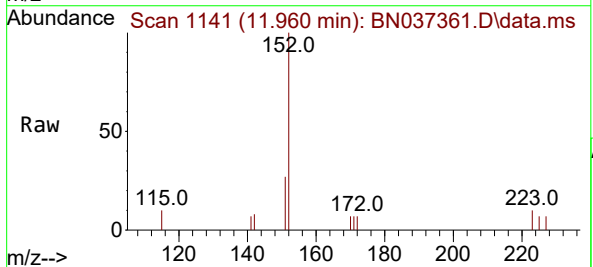
Instrument :
BNA_N
ClientSampleId :
PB168563BL

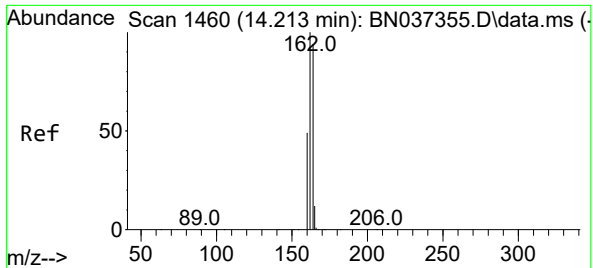
Tgt Ion:	82	Resp:	978
Ion	Ratio	Lower	Upper
82	100		
128	48.5	42.5	63.7
54	50.7	43.2	64.8



#11
2-Methylnaphthalene-d10
Concen: 0.323 ng
RT: 11.960 min Scan# 1141
Delta R.T. 0.015 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Tgt Ion:	152	Resp:	2116
Ion	Ratio	Lower	Upper
152	100		
151	23.0	17.4	26.0

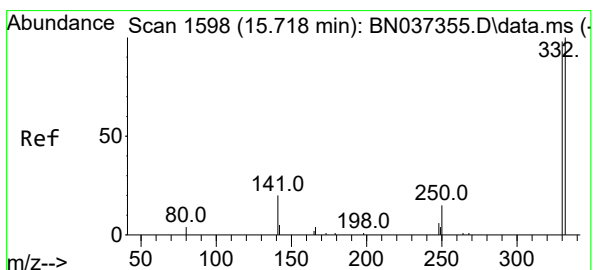
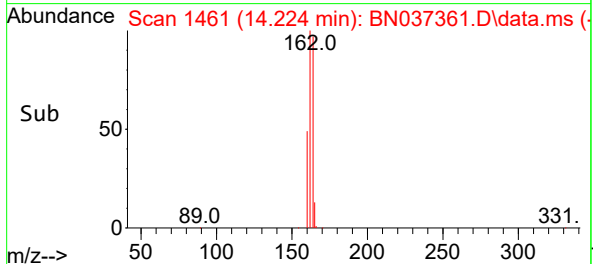
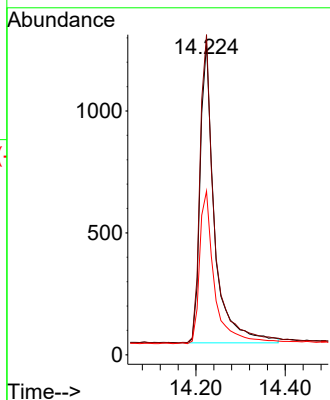
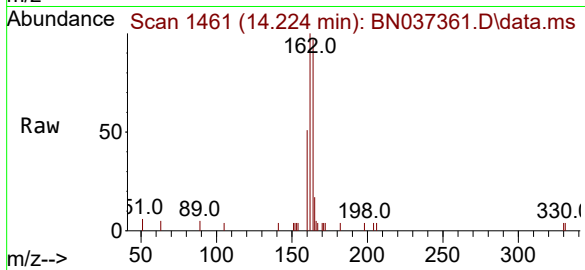




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.224 min Scan# 14
Delta R.T. 0.011 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

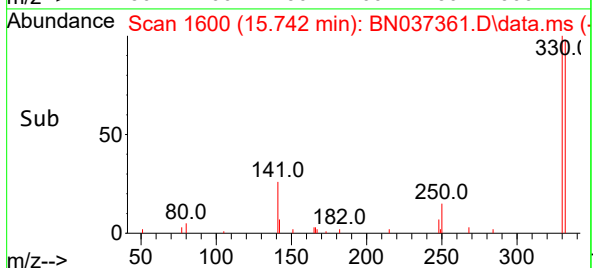
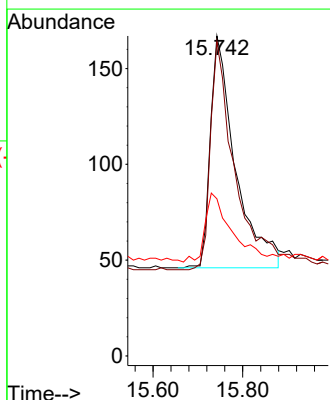
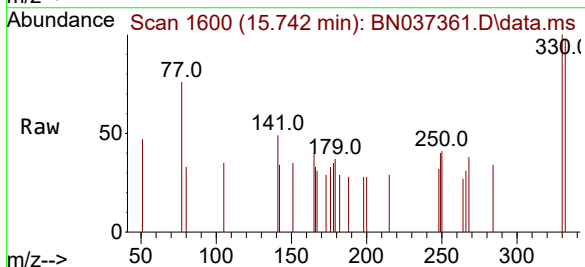
Instrument :
BNA_N
ClientSampleId :
PB168563BL

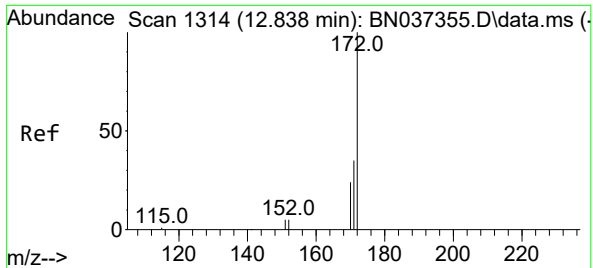
Tgt Ion	Ratio	Lower	Upper
164	100		
162	102.7	81.5	122.3
160	52.5	43.0	64.4



#14
2,4,6-Tribromophenol
Concen: 0.292 ng
RT: 15.742 min Scan# 1600
Delta R.T. 0.025 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.1	78.4	117.6
141	31.3	24.4	36.6





#15

2-Fluorobiphenyl

Concen: 0.326 ng

RT: 12.853 min Scan# 11

Delta R.T. 0.015 min

Lab File: BN037361.D

Acq: 20 Jun 2025 22:16

Instrument :

BNA_N

ClientSampleId :

PB168563BL

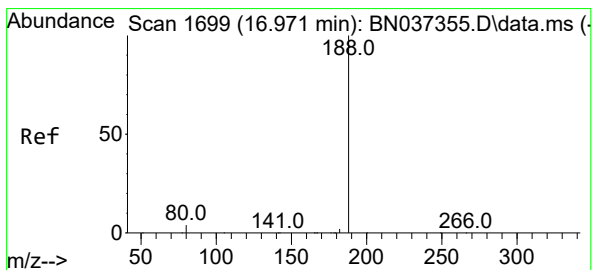
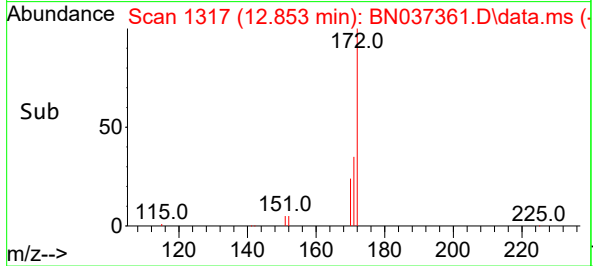
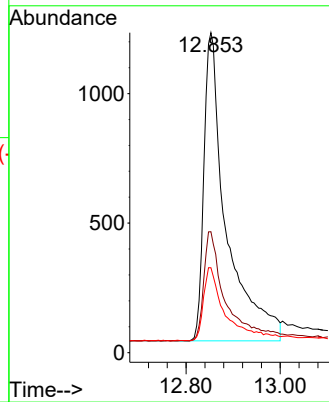
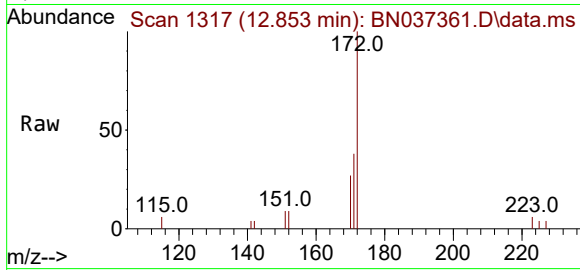
Tgt Ion:172 Resp: 3920

Ion Ratio Lower Upper

172 100

171 37.8 30.8 46.2

170 26.6 21.9 32.9



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 1700

Delta R.T. 0.012 min

Lab File: BN037361.D

Acq: 20 Jun 2025 22:16

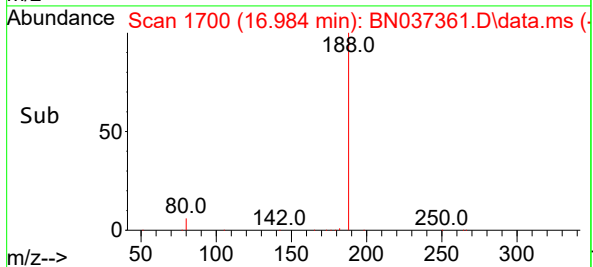
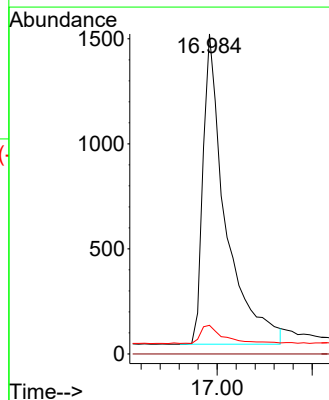
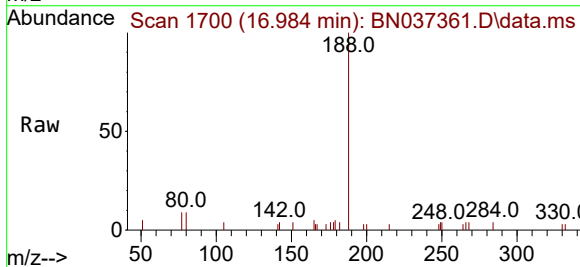
Tgt Ion:188 Resp: 4864

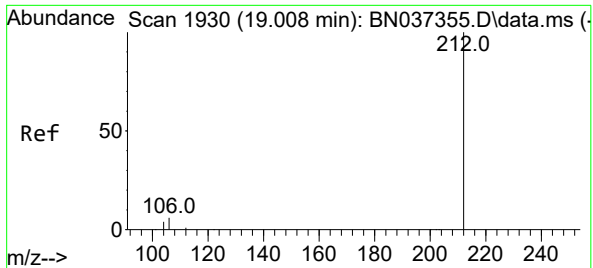
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.9 6.2 9.2

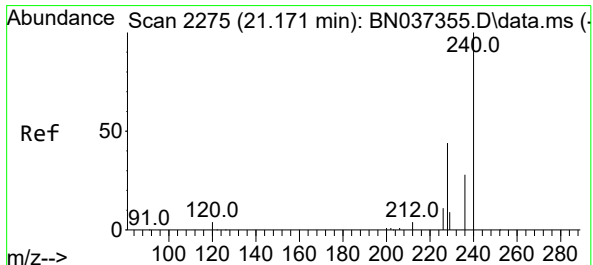
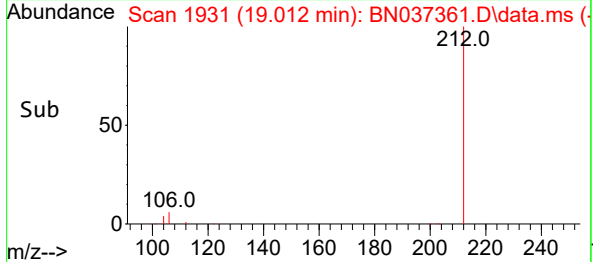
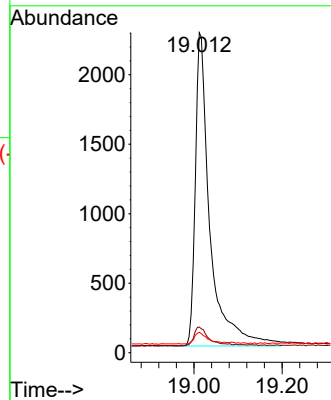
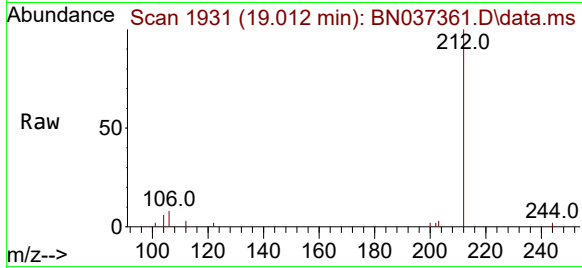




#27
Fluoranthene-d10
Concen: 0.373 ng
RT: 19.012 min Scan# 1931
Delta R.T. 0.004 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

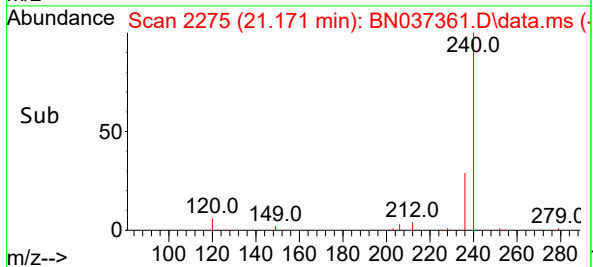
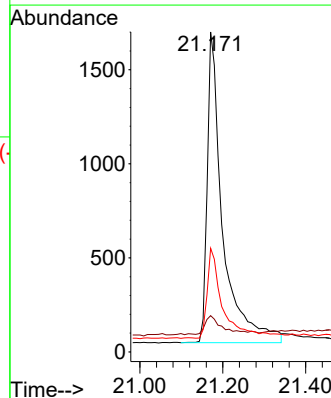
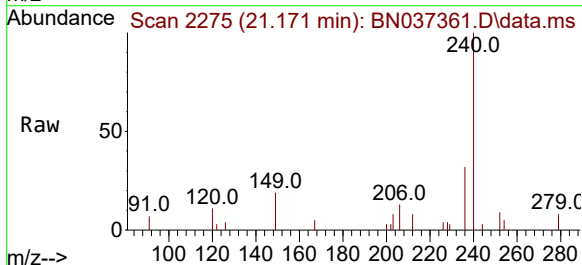
Instrument :
BNA_N
ClientSampleId :
PB168563BL

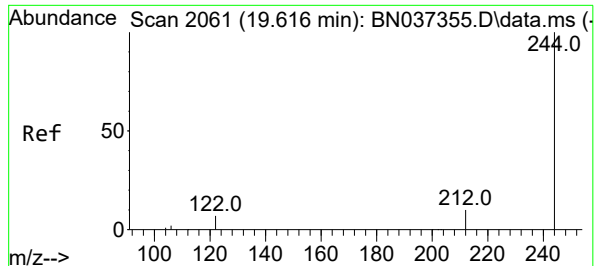
Tgt Ion	Ratio	Lower	Upper
212	100		
106	5.8	3.0	4.4#
104	3.4	2.0	3.0#



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2275
Delta R.T. -0.000 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Tgt Ion	Ratio	Lower	Upper
240	100		
120	11.3	7.5	11.3#
236	32.4	24.9	37.3

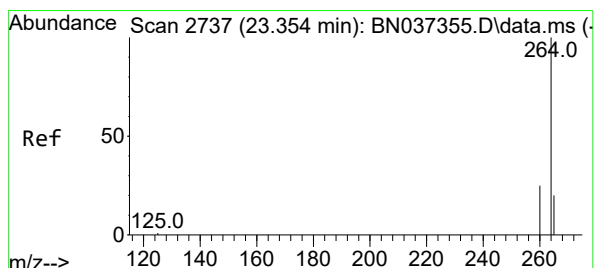
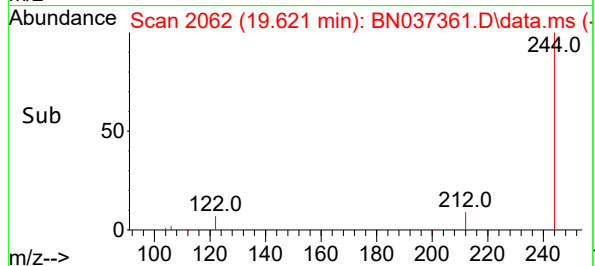
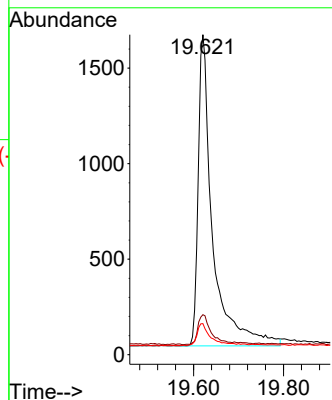
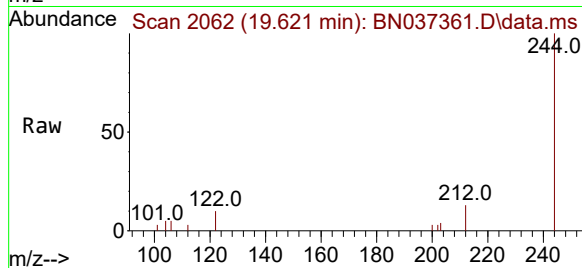




#31
Terphenyl-d14
Concen: 0.373 ng
RT: 19.621 min Scan# 2062
Delta R.T. 0.004 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

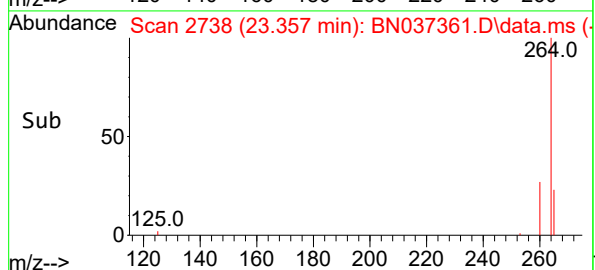
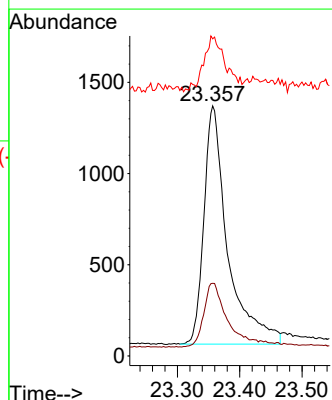
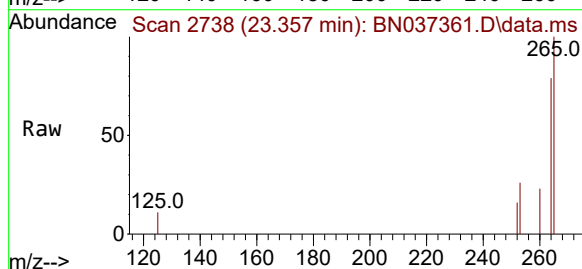
Instrument :
BNA_N
ClientSampleId :
PB168563BL

Tgt Ion:244 Resp: 3648
Ion Ratio Lower Upper
244 100
212 12.5 11.1 16.7
122 9.7 7.2 10.8



#35
Perylene-d12
Concen: 0.400 ng
RT: 23.357 min Scan# 2738
Delta R.T. 0.003 min
Lab File: BN037361.D
Acq: 20 Jun 2025 22:16

Tgt Ion:264 Resp: 3457
Ion Ratio Lower Upper
264 100
260 29.0 21.4 32.2
265 126.8 71.4 107.0#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB168563BS	SDG No.:	Q2345
Lab Sample ID:	PB168563BS	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037363.D	1	06/20/25 09:32	06/20/25 23:28	PB168563

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.32		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.49		30 - 150		123%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.37		55 - 111		92%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.39		53 - 106		97%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.39		58 - 132		98%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1960	7.568				
1146-65-2	Naphthalene-d8	4200	10.34				
15067-26-2	Acenaphthene-d10	2590	14.213				
1517-22-2	Phenanthrene-d10	4830	16.971				
1719-03-5	Chrysene-d12	3880	21.171				
1520-96-3	Perylene-d12	2750	23.351				

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\BN062125\
 Data File : BN037363.D
 Acq On : 20 Jun 2025 23:28
 Operator : RC/JU
 Sample : PB168563BS
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168563BS

Quant Time: Jun 20 23:54:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:41:54 2025
 Response via : Initial Calibration

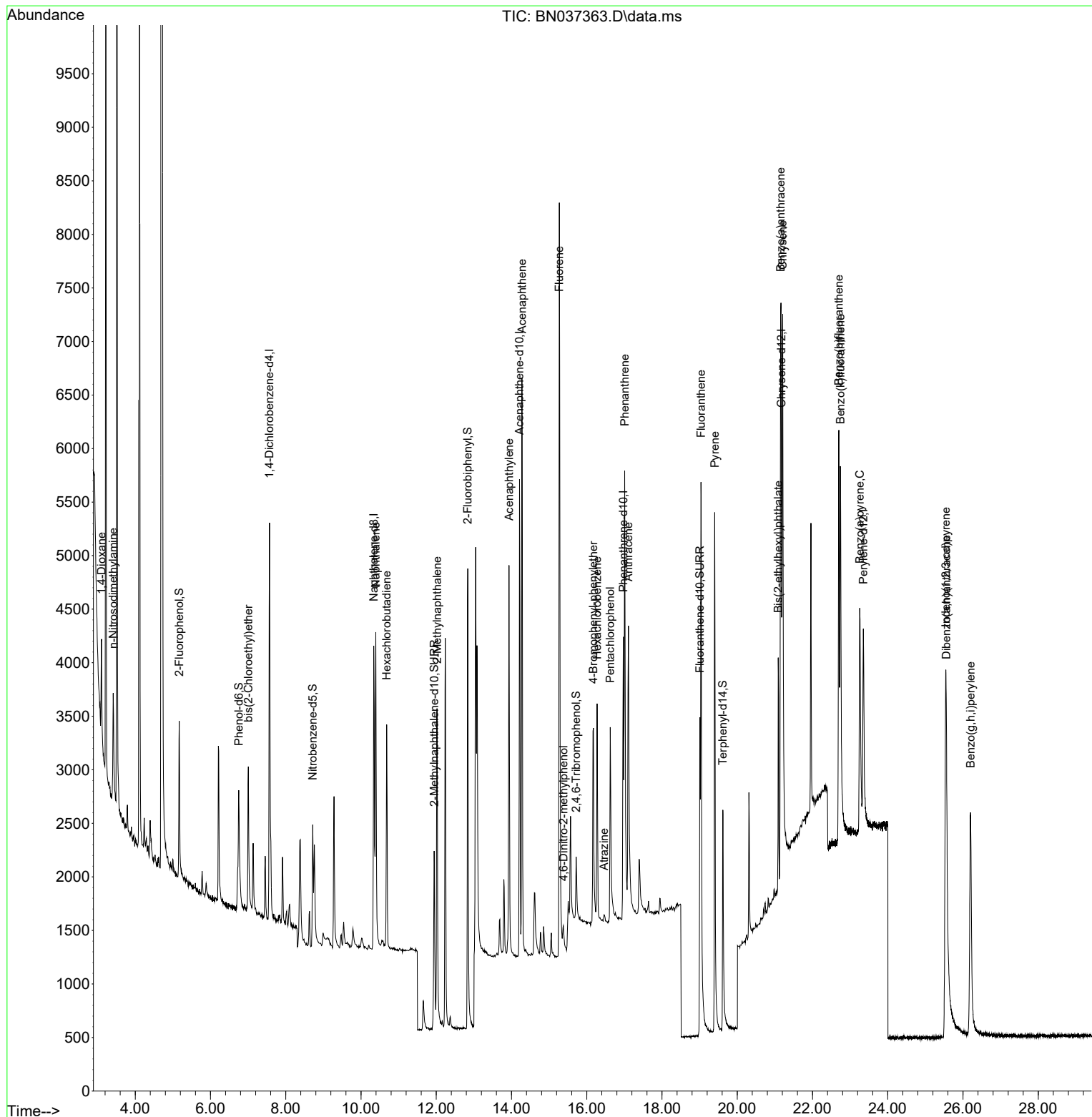
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1960	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4204	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2586	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	4830	0.400	ng	0.00
29) Chrysene-d12	21.171	240	3875	0.400	ng	0.00
35) Perylene-d12	23.351	264	2749	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	1356	0.346	ng	0.00
5) Phenol-d6	6.752	99	1369	0.339	ng	0.00
8) Nitrobenzene-d5	8.717	82	1246	0.367	ng	0.00
11) 2-Methylnaphthalene-d10	11.945	152	3338	0.490	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	509	0.336	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	4401	0.387	ng	0.00
27) Fluoranthene-d10	19.007	212	4783	0.345	ng	0.00
31) Terphenyl-d14	19.616	244	3479	0.394	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	631	0.317	ng	# 32
3) n-Nitrosodimethylamine	3.415	42	717	0.392	ng	# 82
6) bis(2-Chloroethyl)ether	7.004	93	1334	0.373	ng	97
9) Naphthalene	10.394	128	4124	0.372	ng	# 90
10) Hexachlorobutadiene	10.682	225	1728	0.394	ng	# 99
12) 2-Methylnaphthalene	12.021	142	2530	0.327	ng	94
16) Acenaphthylene	13.935	152	4145	0.381	ng	98
17) Acenaphthene	14.277	154	2614	0.365	ng	99
18) Fluorene	15.271	166	3566	0.355	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	387	0.333	ng	89
21) 4-Bromophenyl-phenylether	16.177	248	1258	0.366	ng	98
22) Hexachlorobenzene	16.276	284	1521	0.406	ng	99
23) Atrazine	16.462	200	89	0.032	ng	# 63
24) Pentachlorophenol	16.624	266	1322	0.709	ng	95
25) Phenanthrene	17.009	178	5063	0.362	ng	99
26) Anthracene	17.108	178	4541	0.352	ng	98
28) Fluoranthene	19.035	202	6071	0.343	ng	# 99
30) Pyrene	19.402	202	5679	0.361	ng	99
32) Benzo(a)anthracene	21.153	228	4660	0.366	ng	99
33) Chrysene	21.206	228	6398	0.414	ng	98
34) Bis(2-ethylhexyl)phtha...	21.090	149	1970	0.377	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.541	276	6014	0.488	ng	# 92
37) Benzo(b)fluoranthene	22.699	252	5246	0.519	ng	# 98
38) Benzo(k)fluoranthene	22.743	252	5910	0.539	ng	99
39) Benzo(a)pyrene	23.254	252	4418	0.487	ng	# 96
40) Dibenzo(a,h)anthracene	25.555	278	4975	0.537	ng	95
41) Benzo(g,h,i)perylene	26.201	276	5107	0.464	ng	# 98

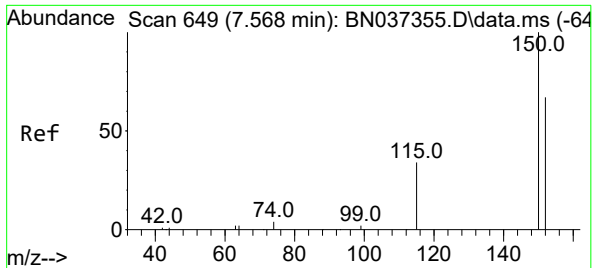
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037363.D
Acq On : 20 Jun 2025 23:28
Operator : RC/JU
Sample : PB168563BS
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168563BS

Quant Time: Jun 20 23:54:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration

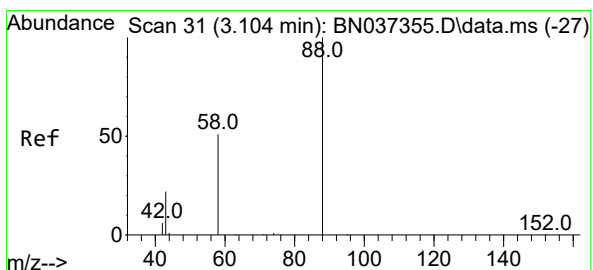
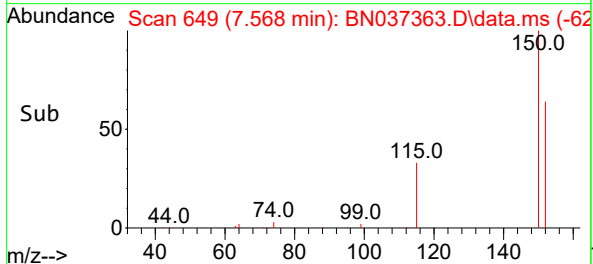
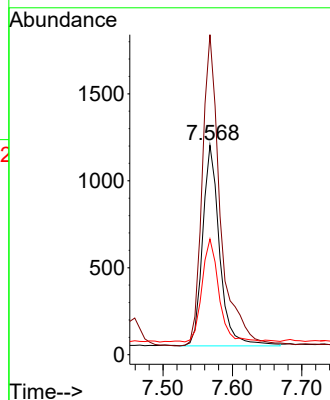
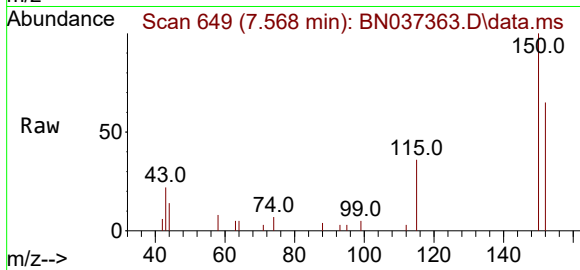




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

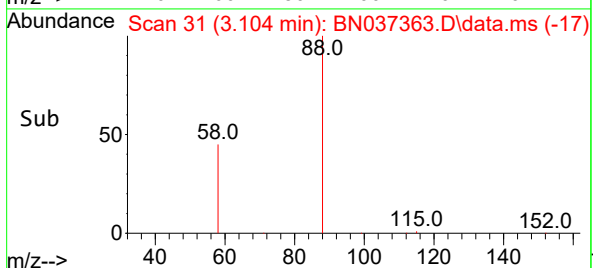
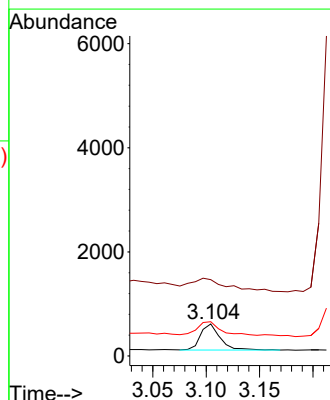
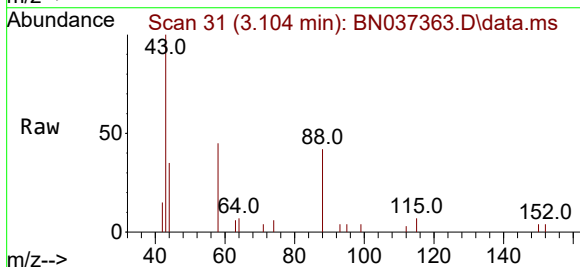
Instrument :
BNA_N
ClientSampleId :
PB168563BS

Tgt Ion:152 Resp: 1960
Ion Ratio Lower Upper
152 100
150 152.8 112.7 169.1
115 55.2 45.9 68.9

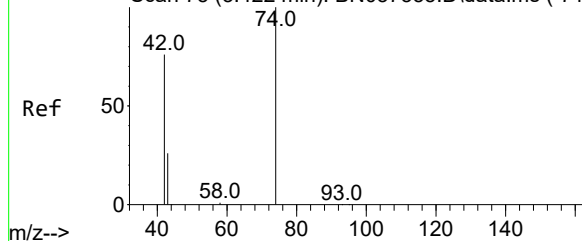


#2
1,4-Dioxane
Concen: 0.317 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

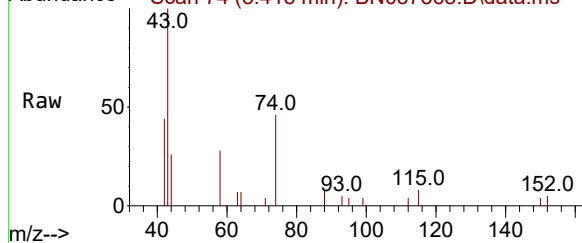
Tgt Ion: 88 Resp: 631
Ion Ratio Lower Upper
88 100
43 96.4 21.0 31.6#
58 68.0 38.0 57.0#



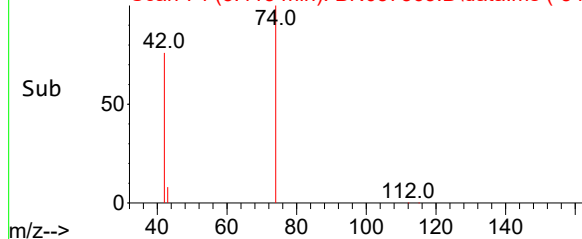
Abundance Scan 75 (3.422 min): BN037355.D\data.ms (-71)



Abundance Scan 74 (3.415 min): BN037363.D\data.ms



Abundance Scan 74 (3.415 min): BN037363.D\data.ms (-54)



#3

n-Nitrosodimethylamine

Concen: 0.392 ng

RT: 3.415 min Scan# 74

Delta R.T. -0.007 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

Instrument :

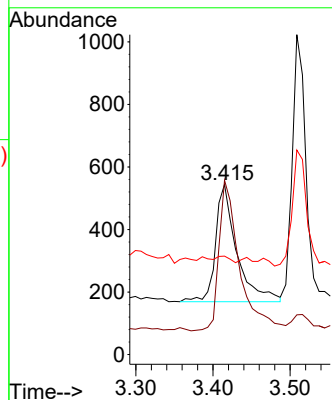
BNA_N

ClientSampleId :

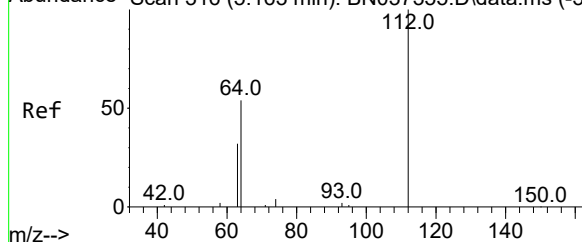
PB168563BS

Tgt Ion: 42 Resp: 717

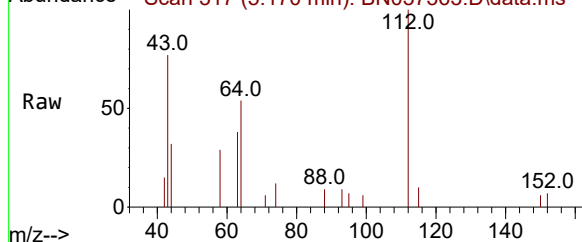
Ion	Ratio	Lower	Upper
42	100		
74	124.4	84.3	126.5
44	3.2	5.0	7.4



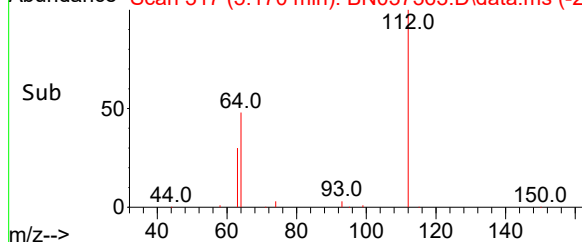
Abundance Scan 316 (5.163 min): BN037355.D\data.ms (-30)



Abundance Scan 317 (5.170 min): BN037363.D\data.ms



Abundance Scan 317 (5.170 min): BN037363.D\data.ms (-28)



#4

2-Fluorophenol

Concen: 0.346 ng

RT: 5.170 min Scan# 317

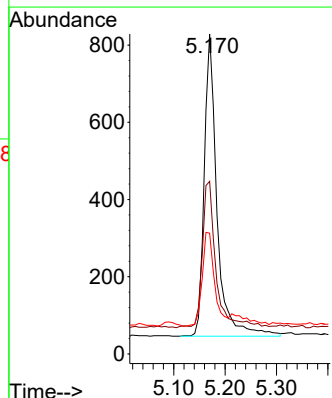
Delta R.T. 0.007 min

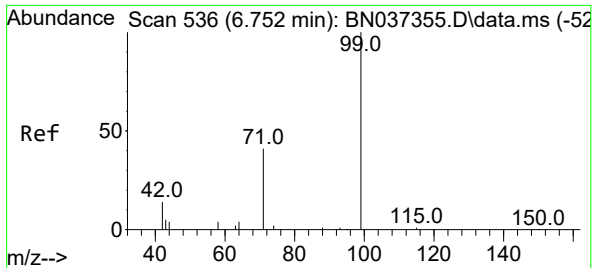
Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

Tgt Ion: 112 Resp: 1356

Ion	Ratio	Lower	Upper
112	100		
64	51.6	38.7	58.1
63	30.4	26.4	39.6

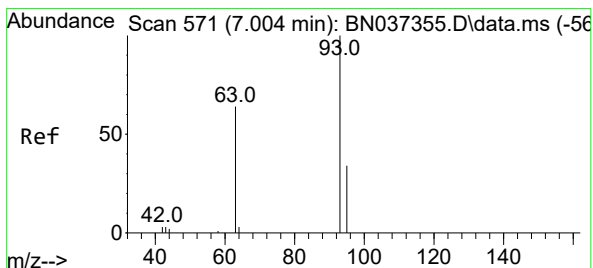
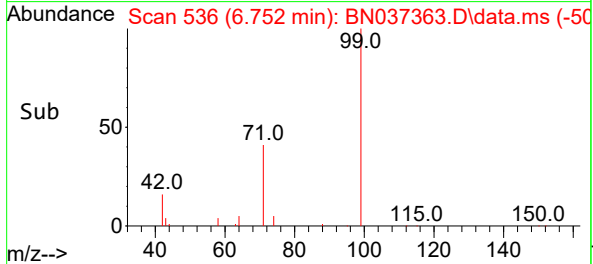
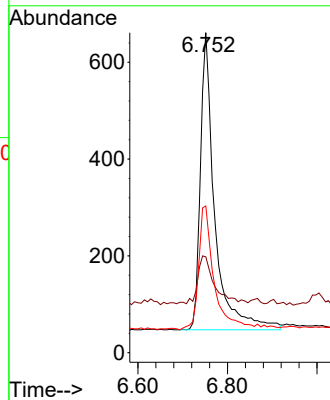
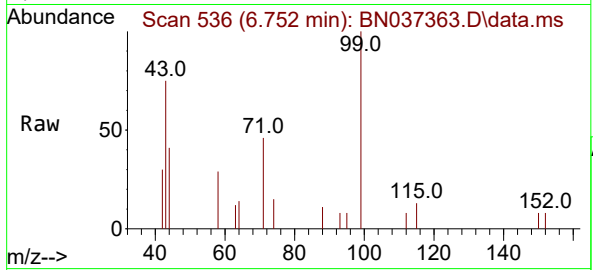




#5
Phenol-d6
Concen: 0.339 ng
RT: 6.752 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

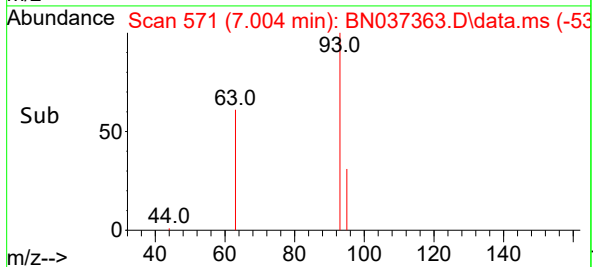
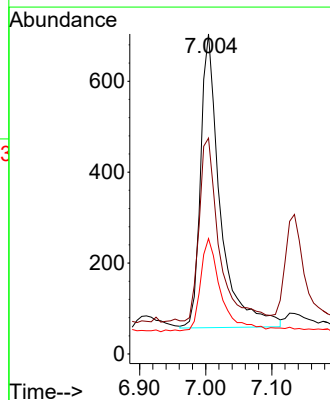
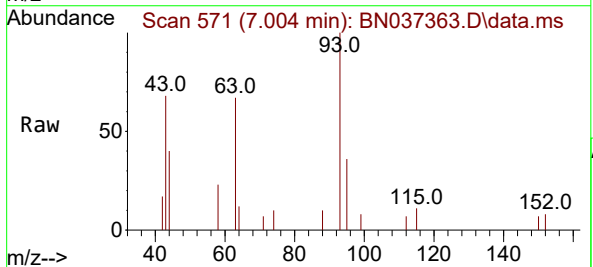
Instrument :
BNA_N
ClientSampleId :
PB168563BS

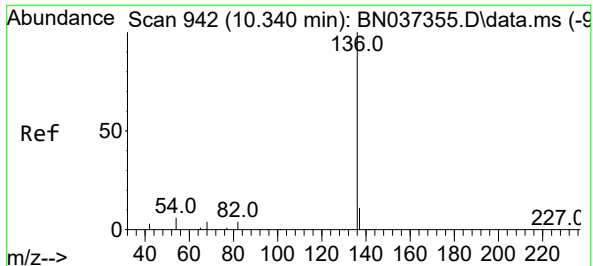
Tgt Ion: 99 Resp: 1369
Ion Ratio Lower Upper
99 100
42 19.0 19.8 29.8#
71 44.8 42.6 64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.373 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion: 93 Resp: 1334
Ion Ratio Lower Upper
93 100
63 63.3 53.2 79.8
95 34.0 27.3 40.9

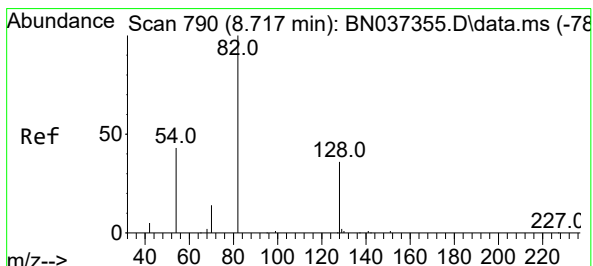
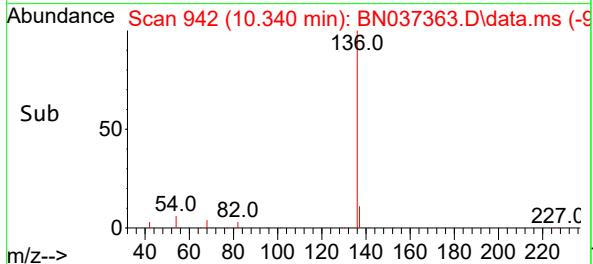
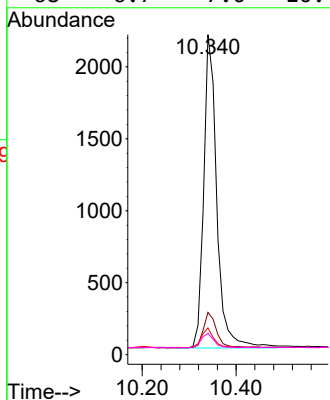
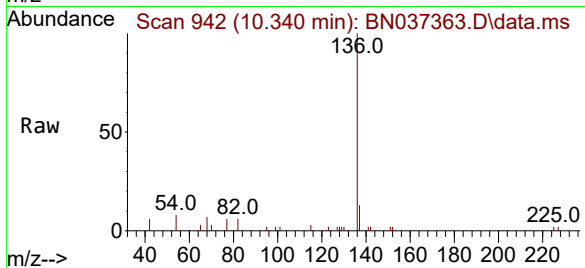




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 942
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

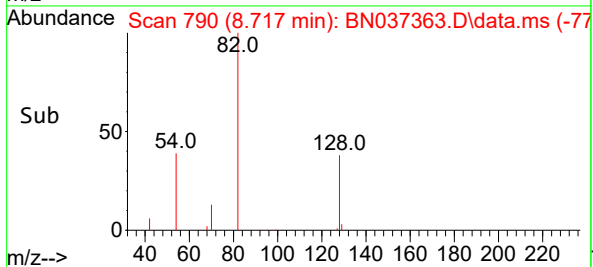
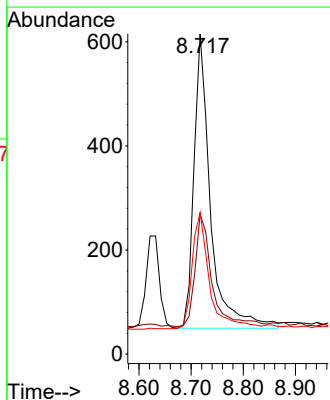
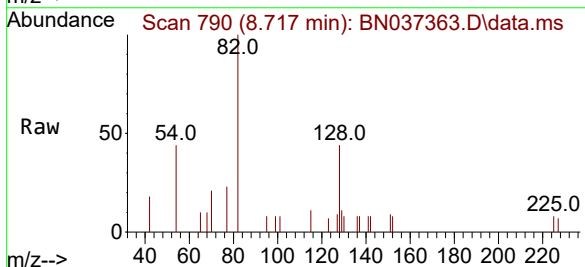
Instrument :
BNA_N
ClientSampleId :
PB168563BS

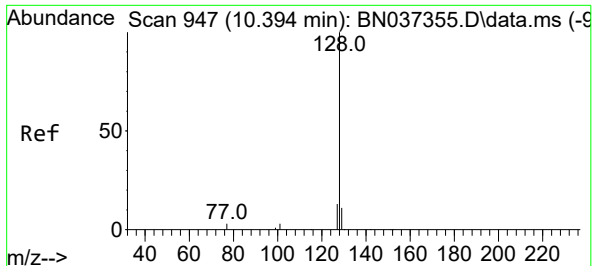
Tgt Ion:	136	Resp:	4204
Ion	Ratio	Lower	Upper
136	100		
137	13.2	12.2	18.2
54	8.4	8.8	13.2#
68	6.7	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 0.367 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:	82	Resp:	1246
Ion	Ratio	Lower	Upper
82	100		
128	43.7	42.5	63.7
54	44.2	43.2	64.8

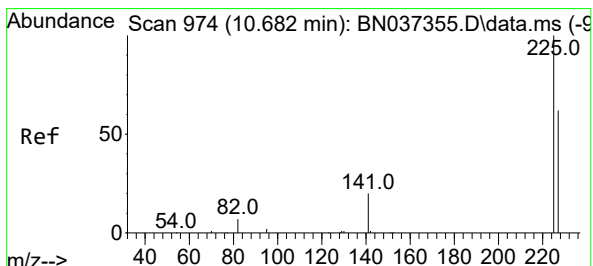
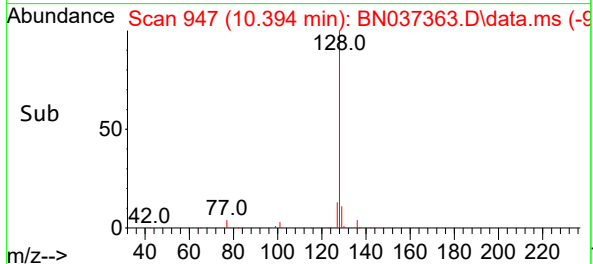
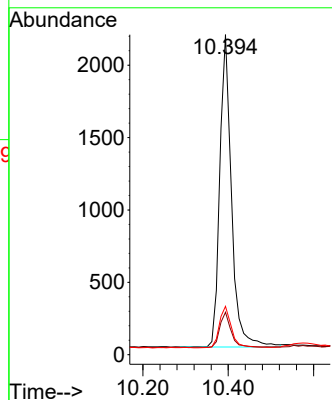
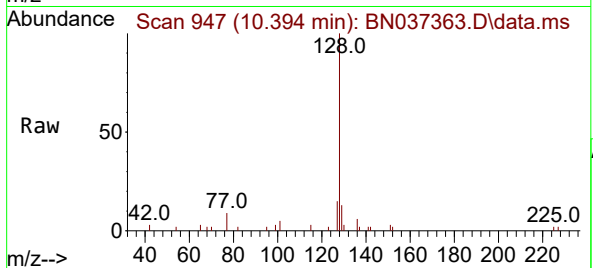




#9
Naphthalene
Concen: 0.372 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

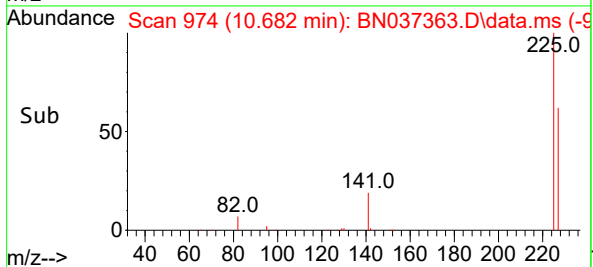
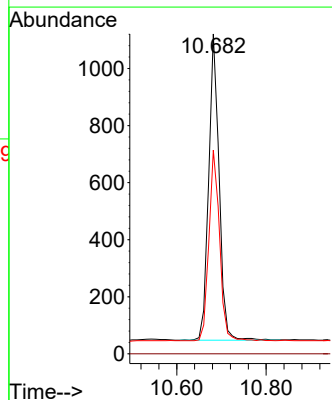
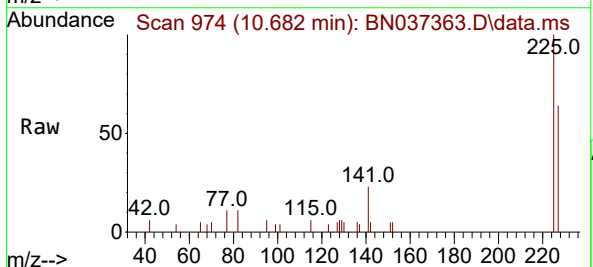
Instrument :
BNA_N
ClientSampleId :
PB168563BS

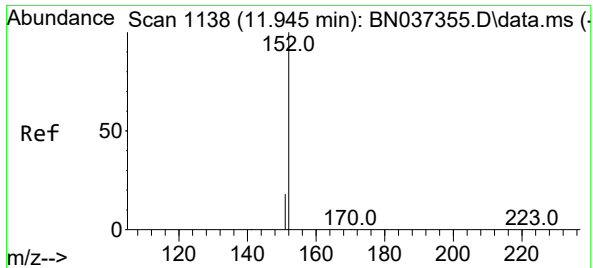
Tgt Ion:128 Resp: 4124
Ion Ratio Lower Upper
128 100
129 13.3 14.0 21.0#
127 15.1 15.8 23.8#



#10
Hexachlorobutadiene
Concen: 0.394 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:225 Resp: 1728
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.7 50.3 75.5

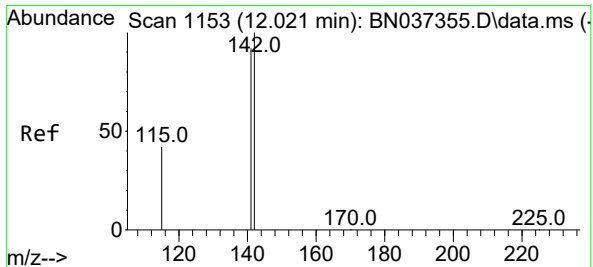
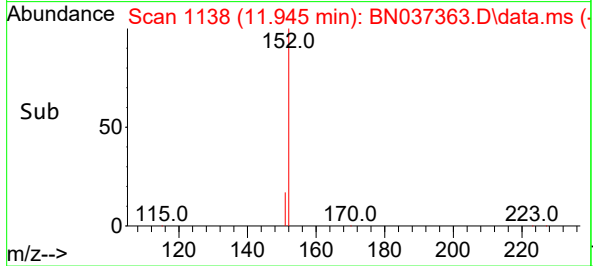
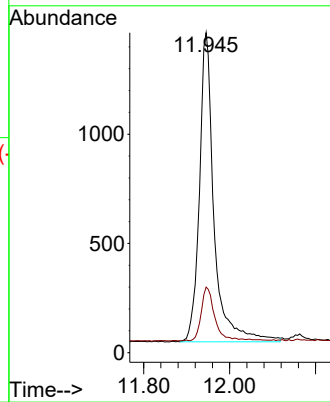
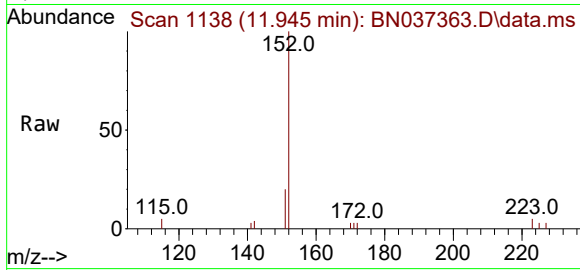




#11
2-Methylnaphthalene-d10
Concen: 0.490 ng
RT: 11.945 min Scan# 1138
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

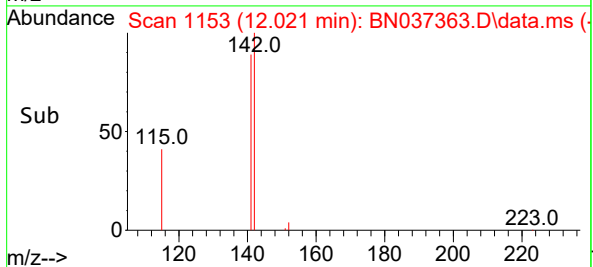
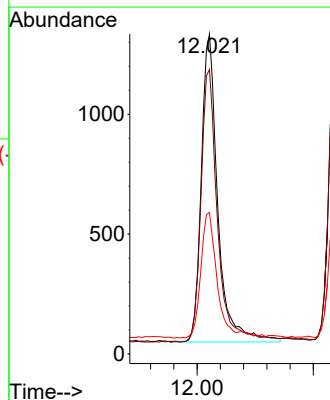
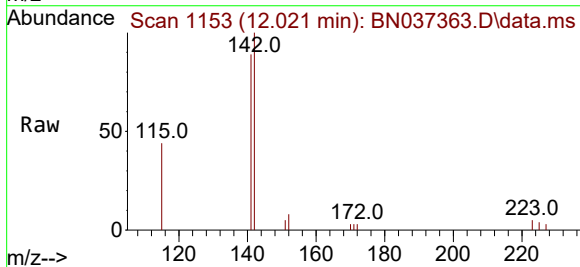
Instrument :
BNA_N
ClientSampleId :
PB168563BS

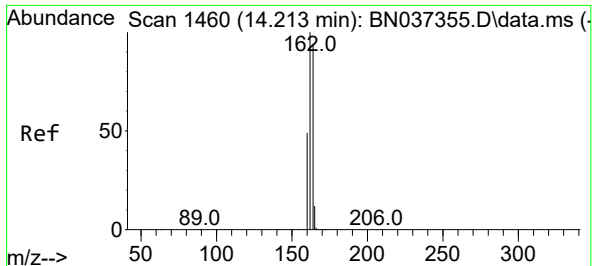
Tgt Ion:152 Resp: 3338
Ion Ratio Lower Upper
152 100
151 15.7 17.4 26.0#



#12
2-Methylnaphthalene
Concen: 0.327 ng
RT: 12.021 min Scan# 1153
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:142 Resp: 2530
Ion Ratio Lower Upper
142 100
141 88.8 70.2 105.2
115 44.3 43.0 64.4

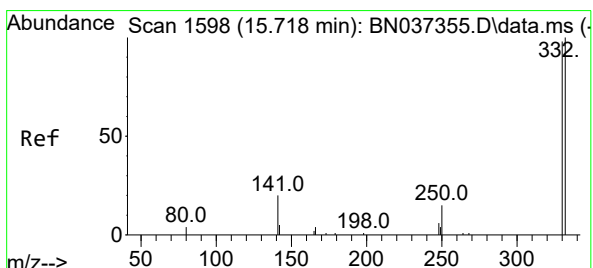
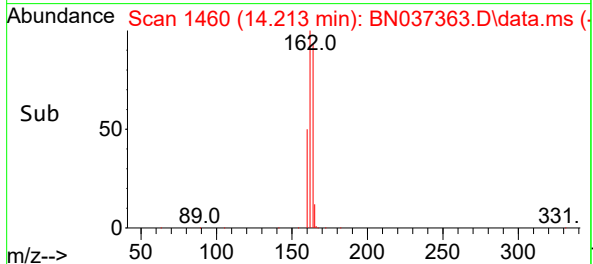
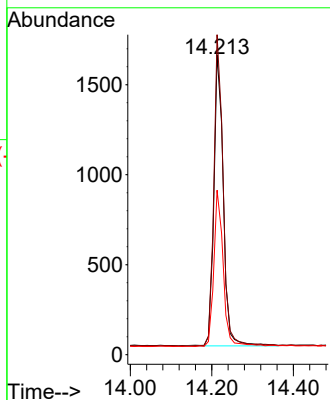
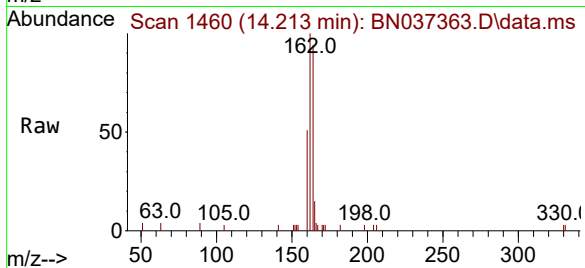




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

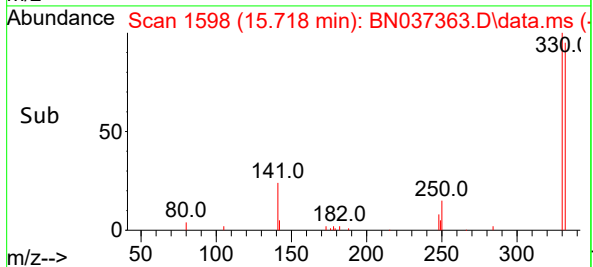
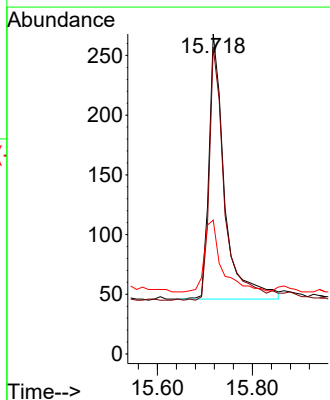
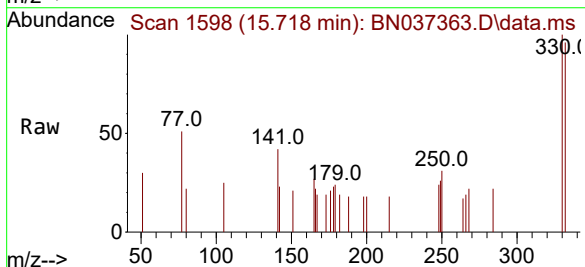
Instrument :
BNA_N
ClientSampleId :
PB168563BS

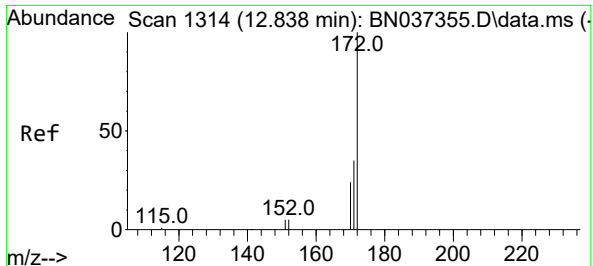
Tgt Ion	Ratio	Lower	Upper
164	100		
162	106.7	81.5	122.3
160	54.8	43.0	64.4



#14
2,4,6-Tribromophenol
Concen: 0.336 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion	Ratio	Lower	Upper
330	100		
332	94.9	78.4	117.6
141	30.1	24.4	36.6





#15

2-Fluorobiphenyl

Concen: 0.387 ng

RT: 12.838 min Scan# 1314

Delta R.T. -0.000 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

Instrument :

BNA_N

ClientSampleId :

PB168563BS

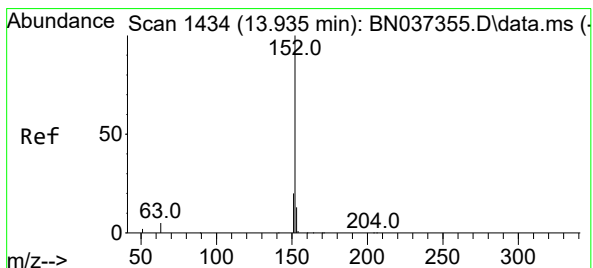
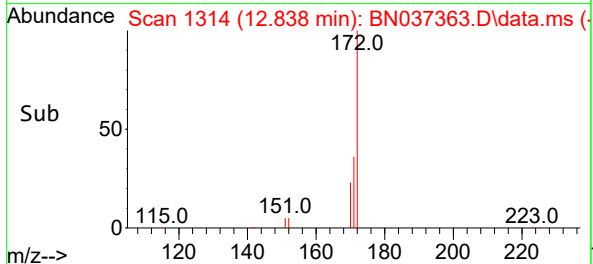
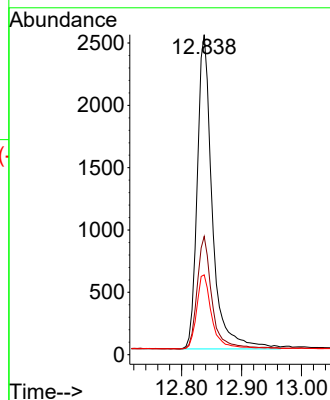
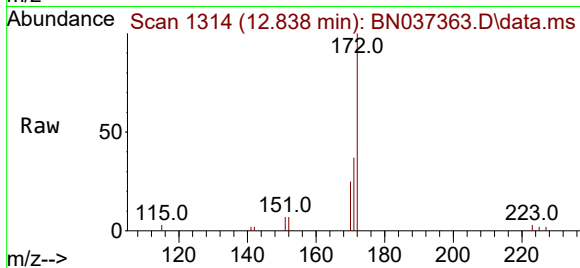
Tgt Ion:172 Resp: 4401

Ion Ratio Lower Upper

172 100

171 36.9 30.8 46.2

170 24.9 21.9 32.9



#16

Acenaphthylene

Concen: 0.381 ng

RT: 13.935 min Scan# 1434

Delta R.T. -0.000 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

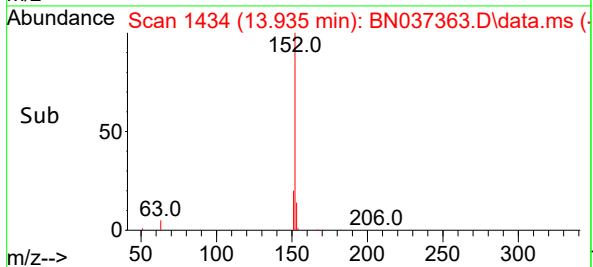
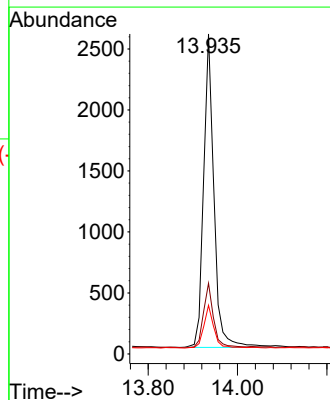
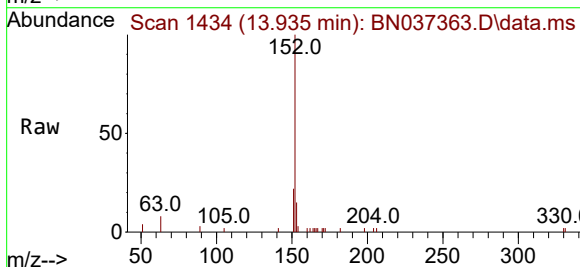
Tgt Ion:152 Resp: 4145

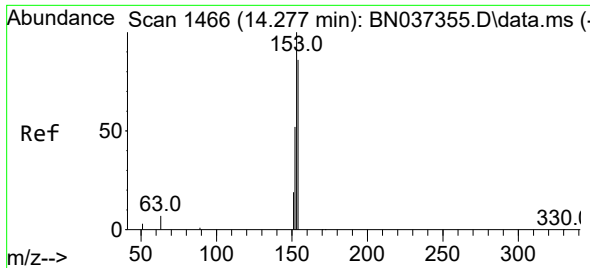
Ion Ratio Lower Upper

152 100

151 20.0 16.6 24.8

153 13.4 10.2 15.2

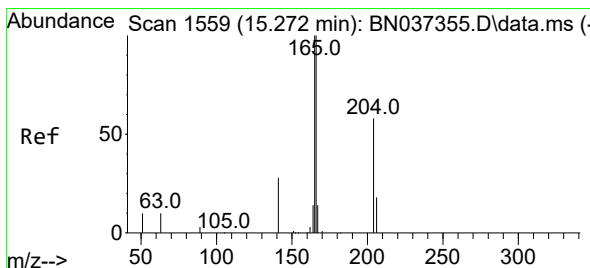
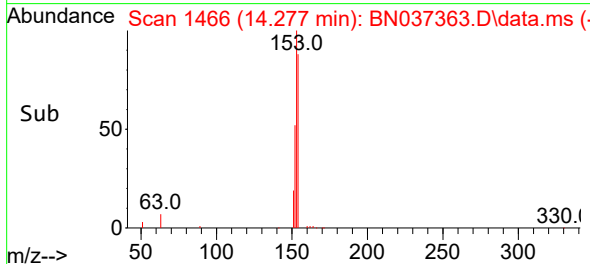
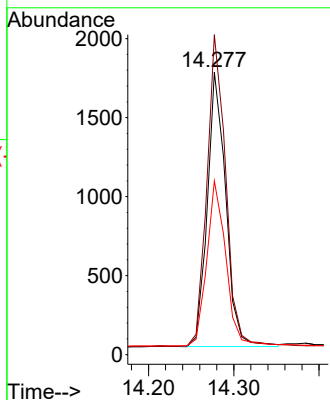
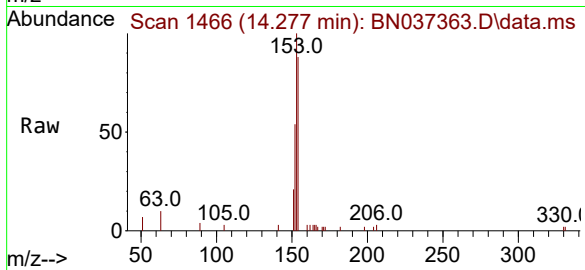




#17
Acenaphthene
Concen: 0.365 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

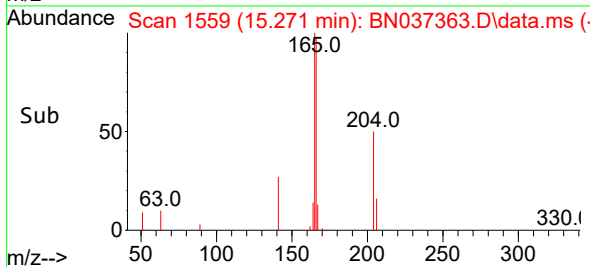
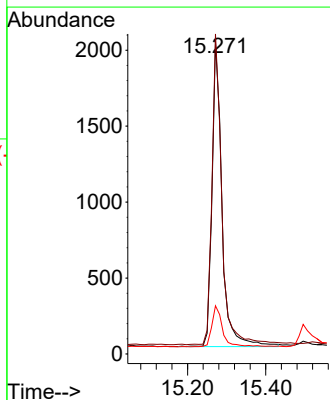
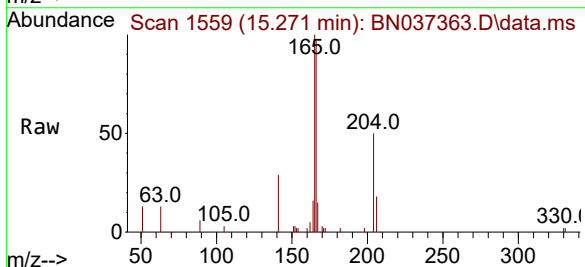
Instrument :
BNA_N
ClientSampleId :
PB168563BS

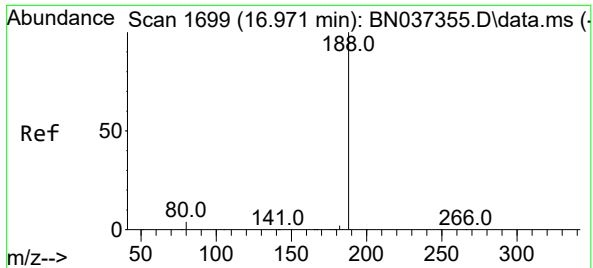
Tgt Ion:	154	Resp:	2614
Ion	Ratio	Lower	Upper
154	100		
153	116.8	93.1	139.7
152	62.5	48.6	73.0



#18
Fluorene
Concen: 0.355 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:	166	Resp:	3566
Ion	Ratio	Lower	Upper
166	100		
165	100.6	79.5	119.3
167	14.3	10.7	16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

Instrument :

BNA_N

ClientSampleId :

PB168563BS

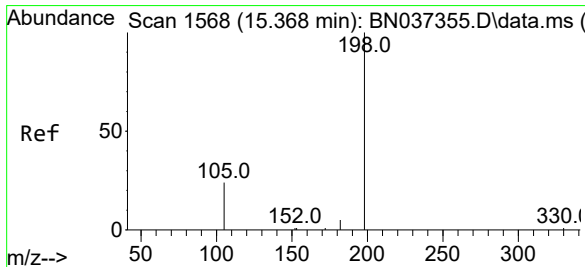
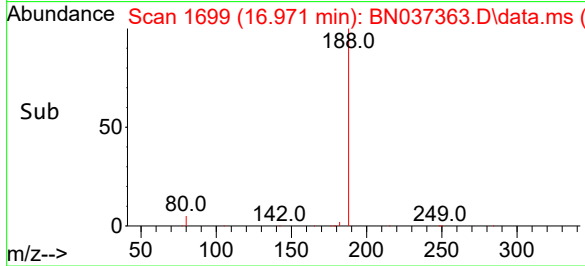
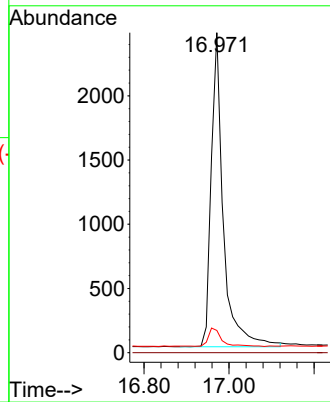
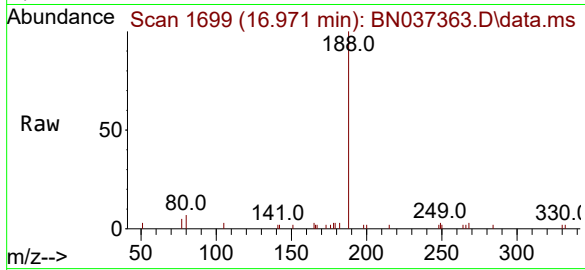
Tgt Ion:188 Resp: 4830

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 6.9 6.2 9.2



#20

4,6-Dinitro-2-methylphenol

Concen: 0.333 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.011 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

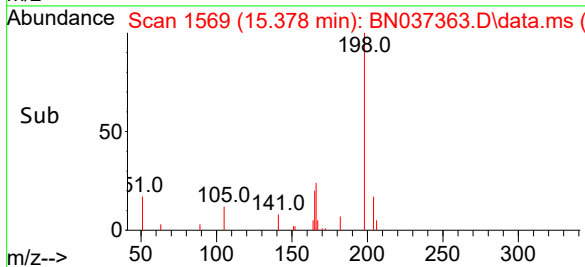
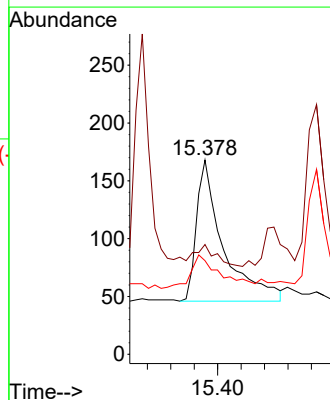
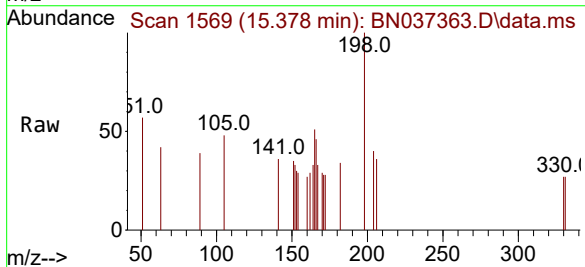
Tgt Ion:198 Resp: 387

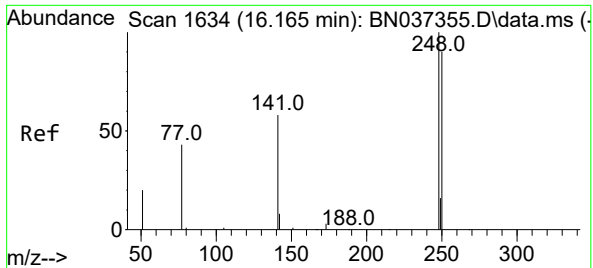
Ion Ratio Lower Upper

198 100

51 56.5 51.4 77.0

105 48.2 45.5 68.3

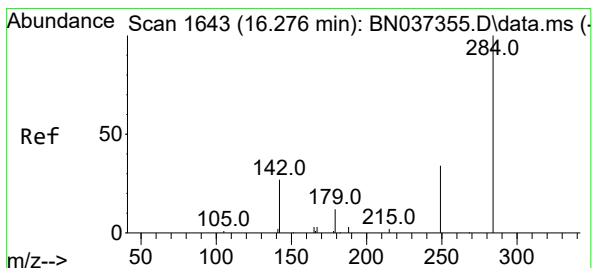
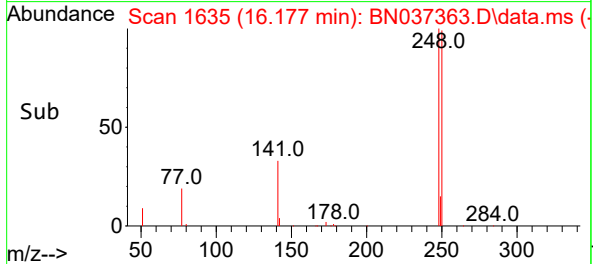
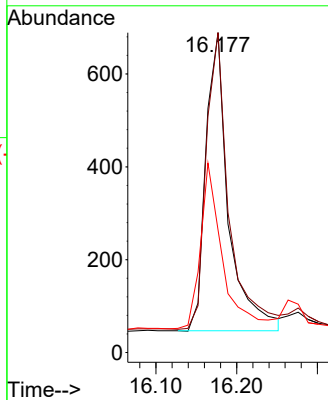
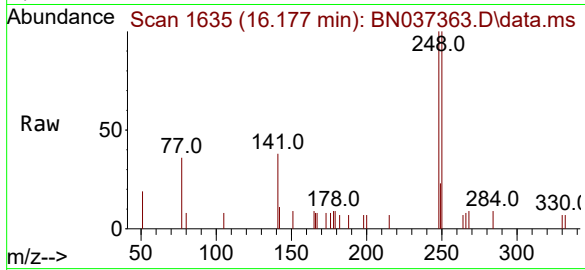




#21
4-Bromophenyl-phenylether
Concen: 0.366 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.012 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

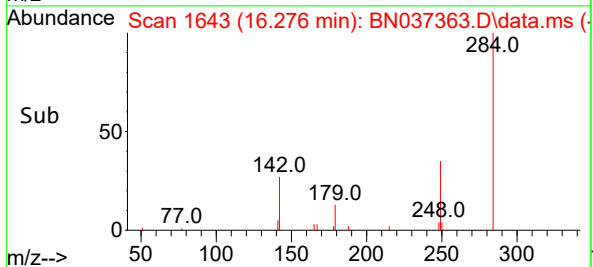
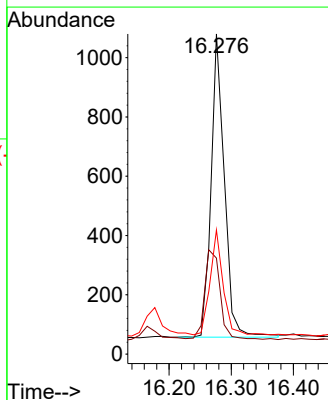
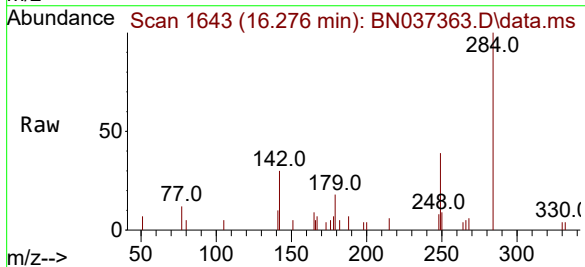
Instrument :
BNA_N
ClientSampleId :
PB168563BS

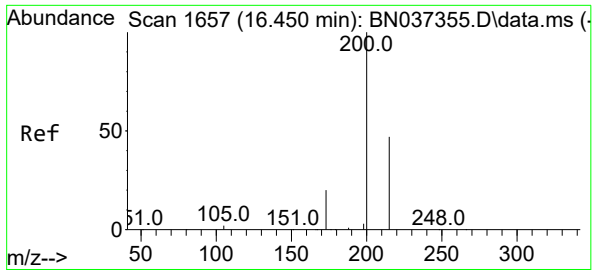
Tgt Ion:	248	Resp:	1258
Ion	Ratio	Lower	Upper
248	100		
250	100.0	80.4	120.6
141	38.3	33.3	49.9



#22
Hexachlorobenzene
Concen: 0.406 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:	284	Resp:	1521
Ion	Ratio	Lower	Upper
284	100		
142	34.2	27.0	40.6
249	34.9	28.8	43.2

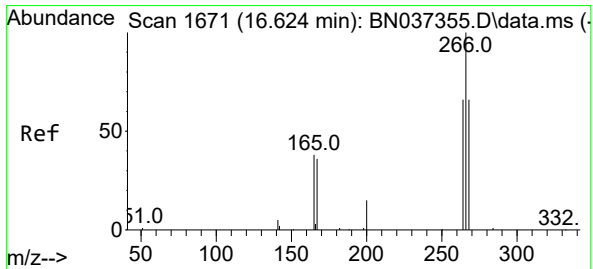
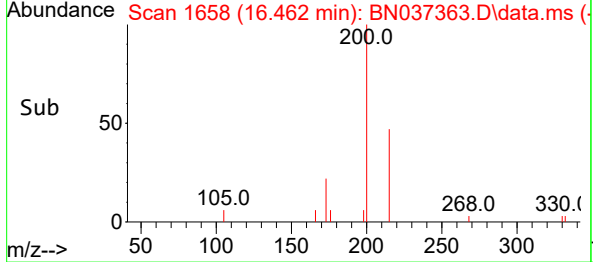
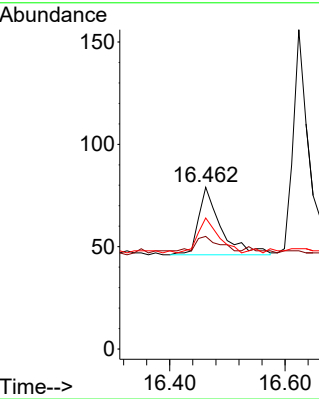
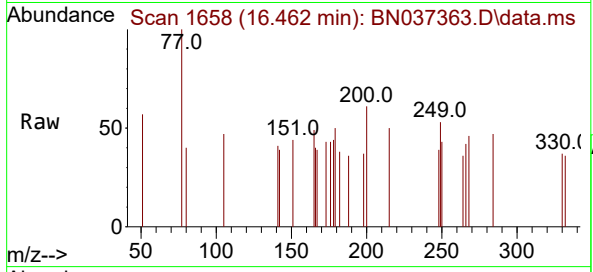




#23
Atrazine
Concen: 0.032 ng
RT: 16.462 min Scan# 1658
Delta R.T. 0.012 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

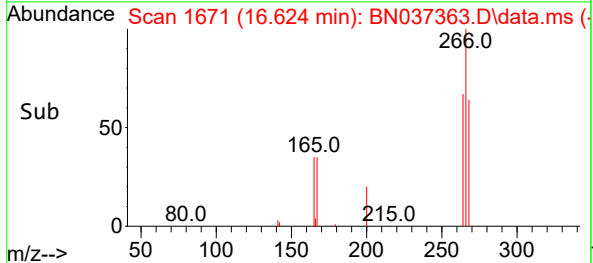
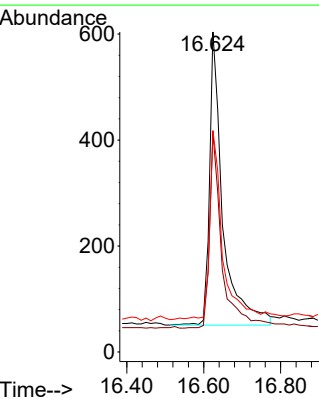
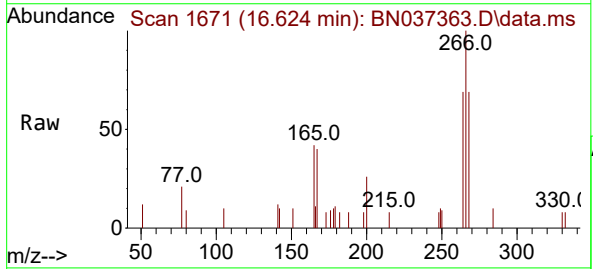
Instrument :
BNA_N
ClientSampleId :
PB168563BS

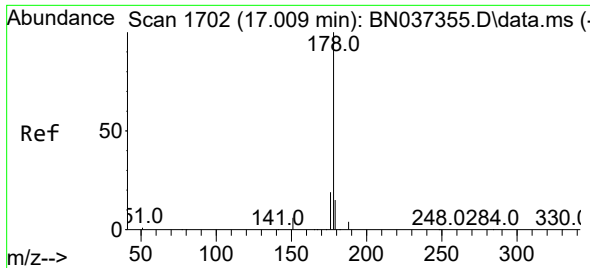
Tgt Ion:200 Resp: 89
Ion Ratio Lower Upper
200 100
173 69.6 29.2 43.8#
215 81.0 48.8 73.2#



#24
Pentachlorophenol
Concen: 0.709 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:266 Resp: 1322
Ion Ratio Lower Upper
266 100
264 62.1 50.3 75.5
268 62.8 55.3 82.9

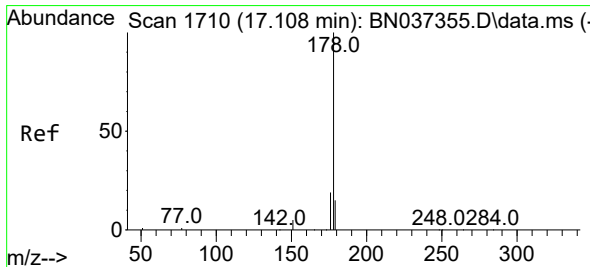
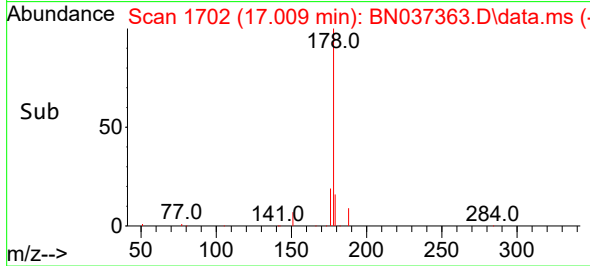
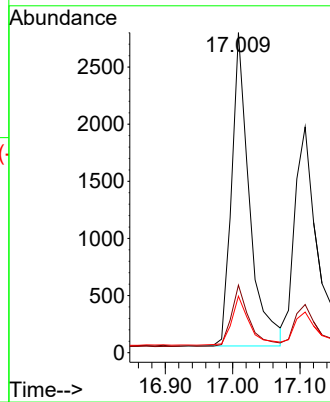
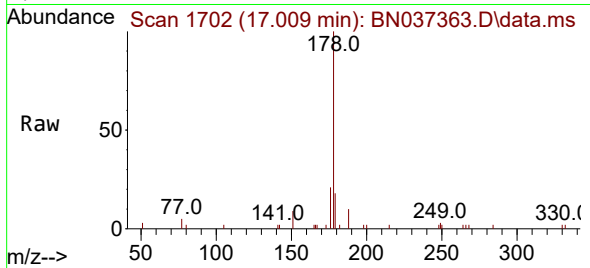




#25
Phenanthrene
Concen: 0.362 ng
RT: 17.009 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

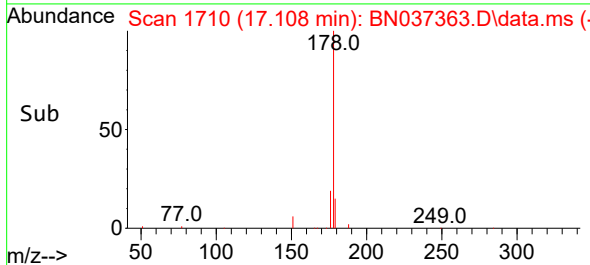
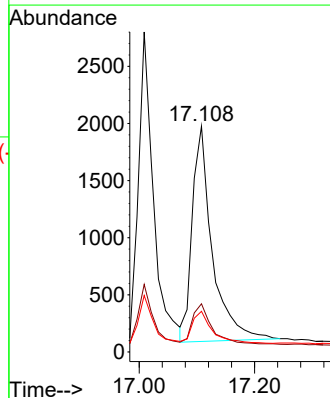
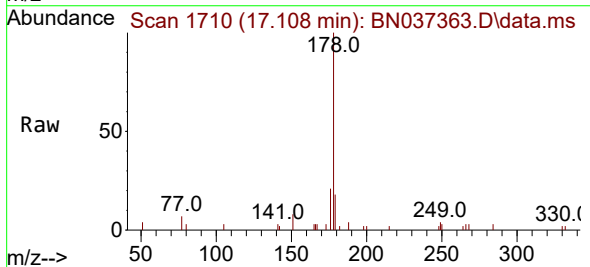
Instrument :
BNA_N
ClientSampleId :
PB168563BS

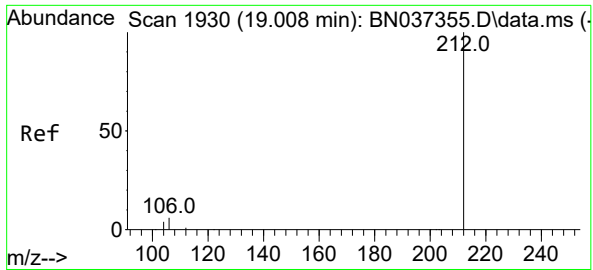
Tgt Ion:	178	Resp:	5063
Ion Ratio	Lower	Upper	
178	100		
176	19.5	15.2	22.8
179	15.4	12.9	19.3



#26
Anthracene
Concen: 0.352 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:	178	Resp:	4541
Ion Ratio	Lower	Upper	
178	100		
176	19.5	14.7	22.1
179	15.4	13.0	19.6

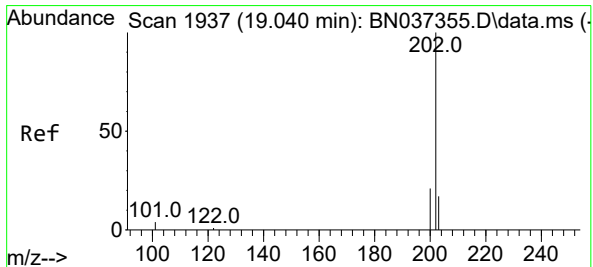
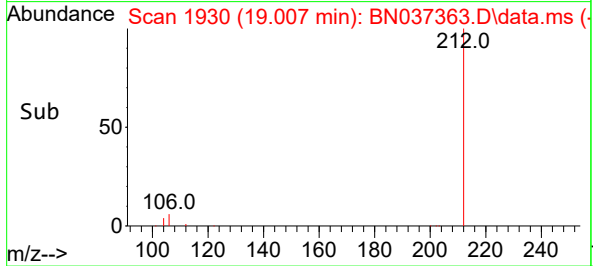
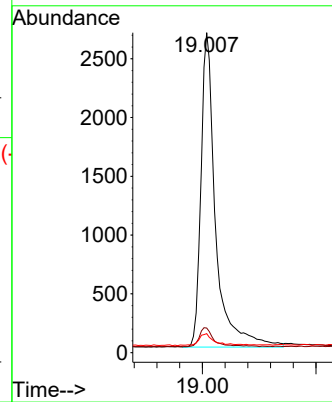
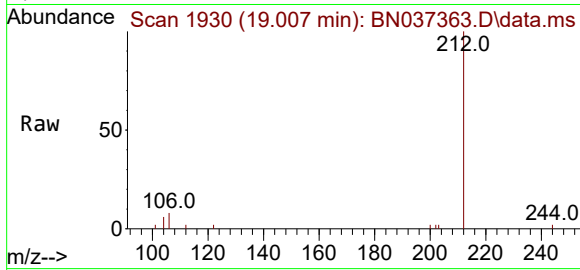




#27
Fluoranthene-d10
Concen: 0.345 ng
RT: 19.007 min Scan# 1930
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

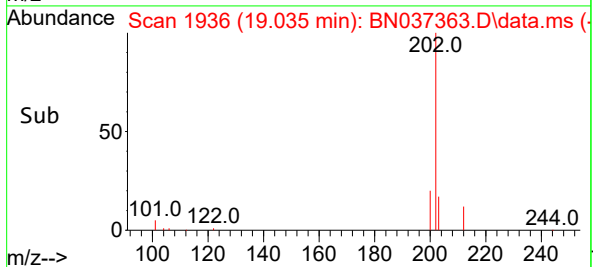
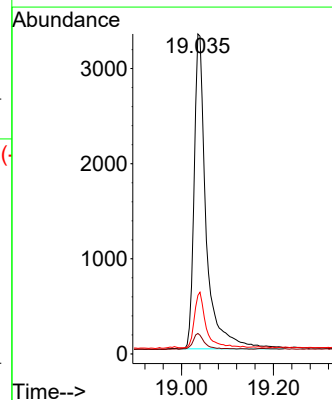
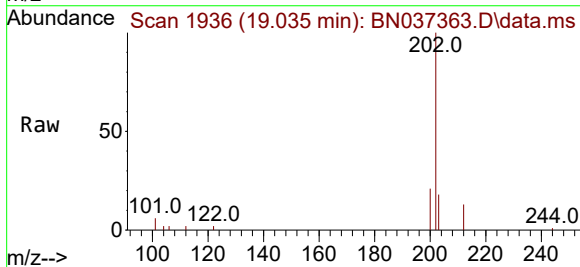
Instrument :
BNA_N
ClientSampleId :
PB168563BS

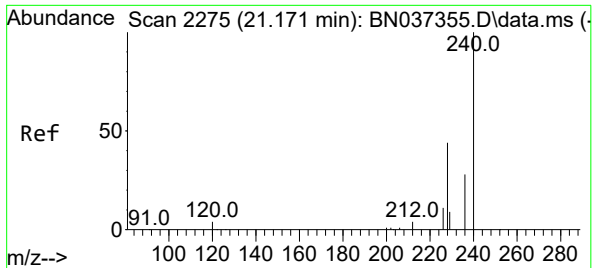
Tgt Ion	Ratio	Lower	Upper
212	100		
106	5.9	3.0	4.4#
104	3.7	2.0	3.0#



#28
Fluoranthene
Concen: 0.343 ng
RT: 19.035 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion	Ratio	Lower	Upper
202	100		
101	5.1	3.0	4.6#
203	16.9	13.7	20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

Instrument :

BNA_N

ClientSampleId :

PB168563BS

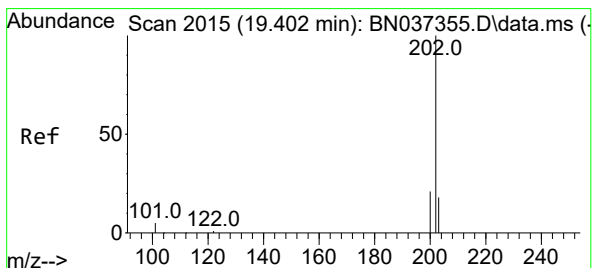
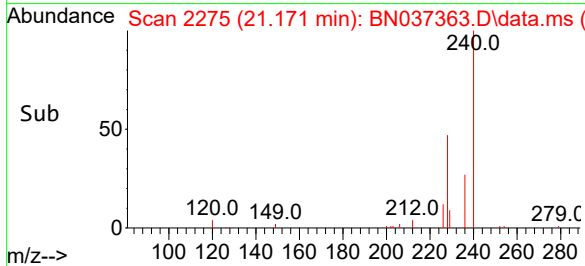
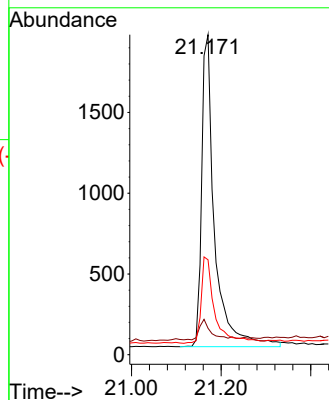
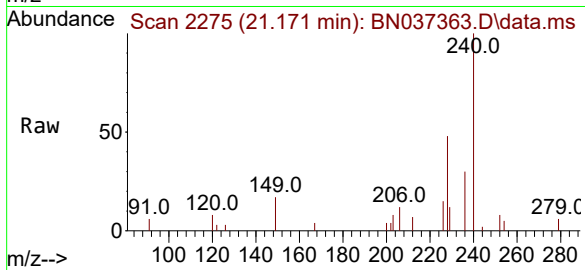
Tgt Ion:240 Resp: 3875

Ion Ratio Lower Upper

240 100

120 8.3 7.5 11.3

236 29.7 24.9 37.3



#30

Pyrene

Concen: 0.361 ng

RT: 19.402 min Scan# 2015

Delta R.T. -0.000 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

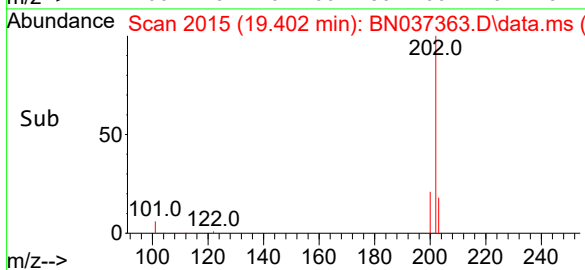
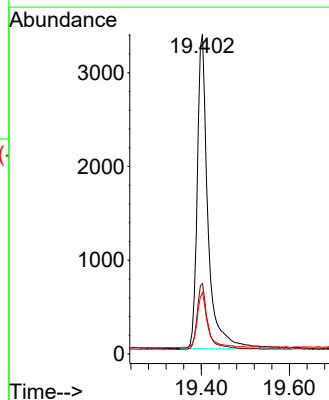
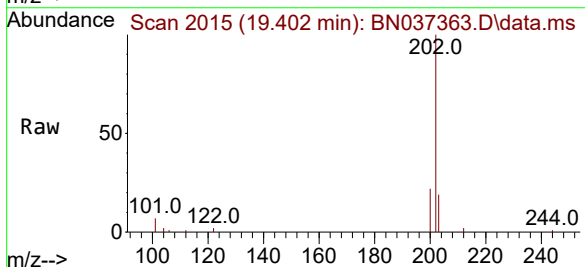
Tgt Ion:202 Resp: 5679

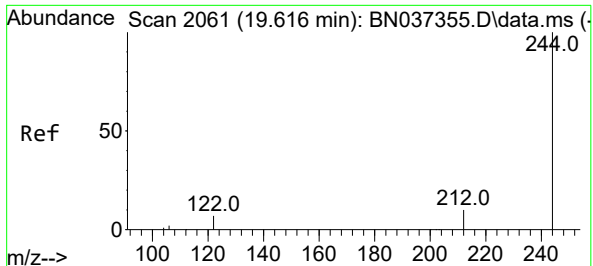
Ion Ratio Lower Upper

202 100

200 20.8 16.8 25.2

203 17.2 14.5 21.7

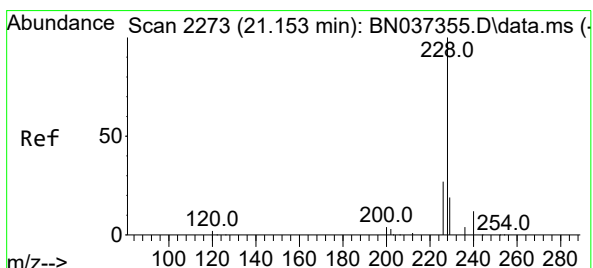
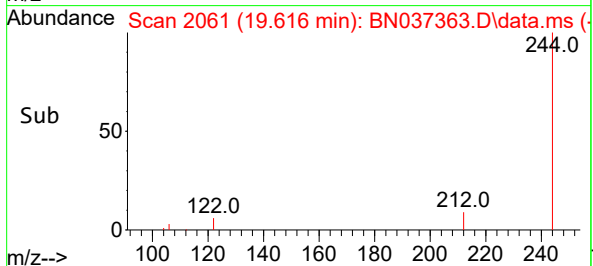
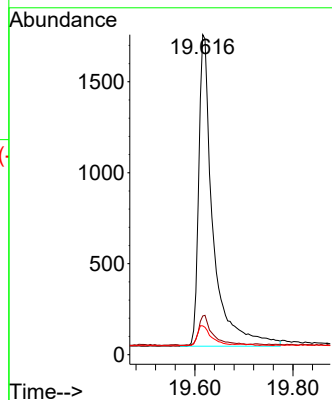
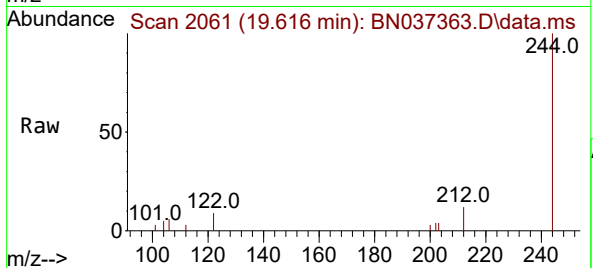




#31
Terphenyl-d14
Concen: 0.394 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

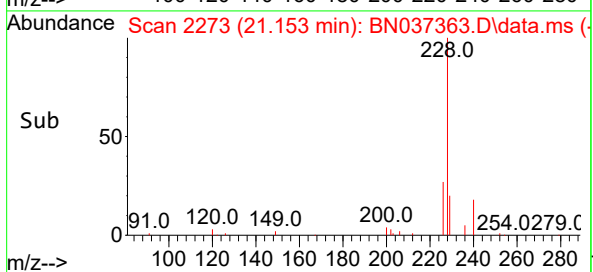
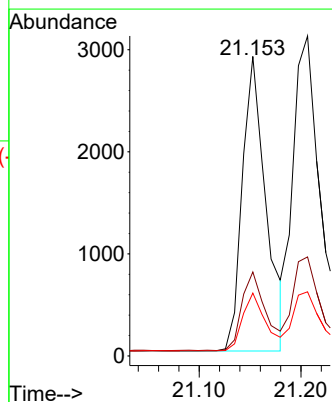
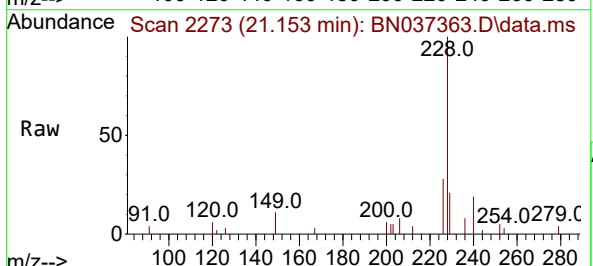
Instrument :
BNA_N
ClientSampleId :
PB168563BS

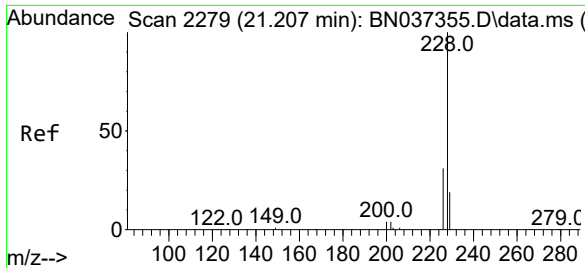
Tgt Ion:244 Resp: 3479
Ion Ratio Lower Upper
244 100
212 12.1 11.1 16.7
122 9.0 7.2 10.8



#32
Benzo(a)anthracene
Concen: 0.366 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:228 Resp: 4660
Ion Ratio Lower Upper
228 100
226 28.1 23.0 34.4
229 21.0 17.4 26.0





#33

Chrysene

Concen: 0.414 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

Instrument :

BNA_N

ClientSampleId :

PB168563BS

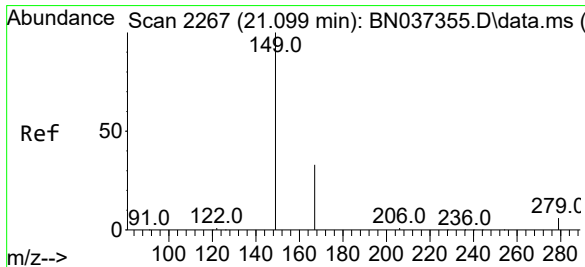
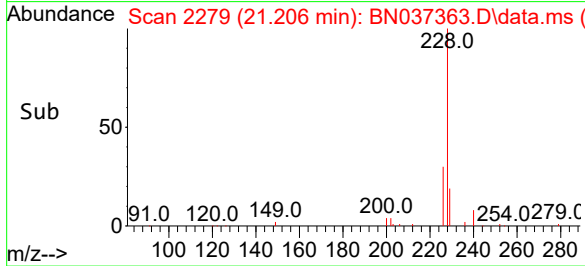
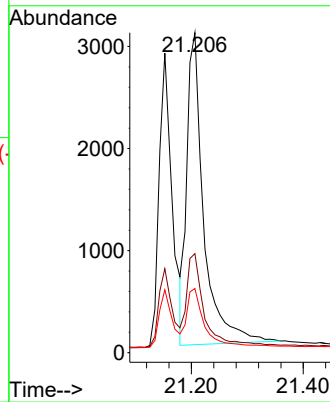
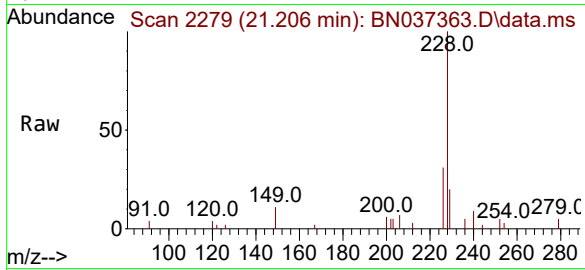
Tgt Ion:228 Resp: 6398

Ion Ratio Lower Upper

228 100

226 31.0 25.4 38.2

229 20.1 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.377 ng

RT: 21.090 min Scan# 2266

Delta R.T. -0.009 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

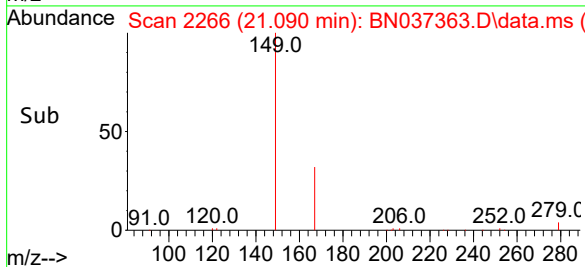
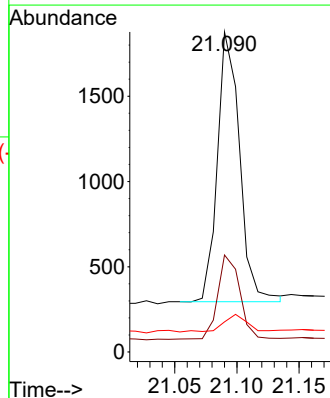
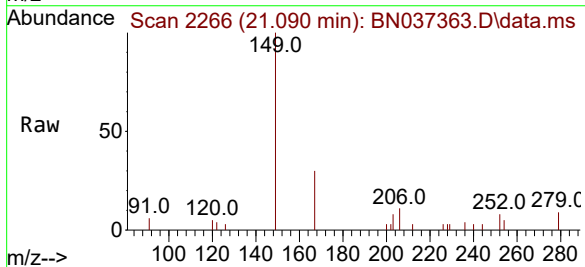
Tgt Ion:149 Resp: 1970

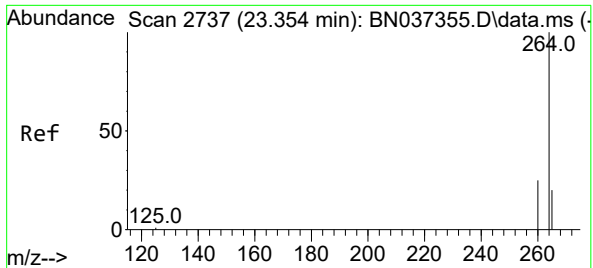
Ion Ratio Lower Upper

149 100

167 31.2 24.6 37.0

279 6.2 6.5 9.7#

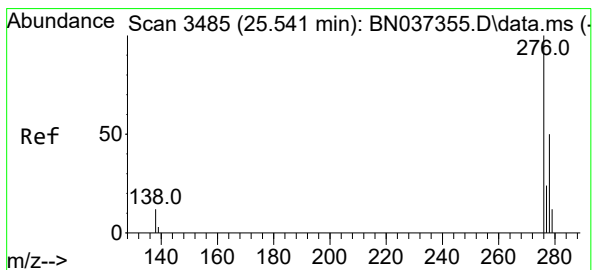
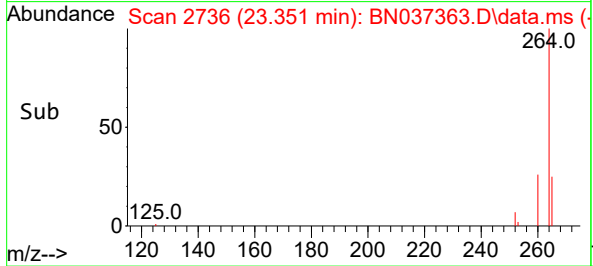
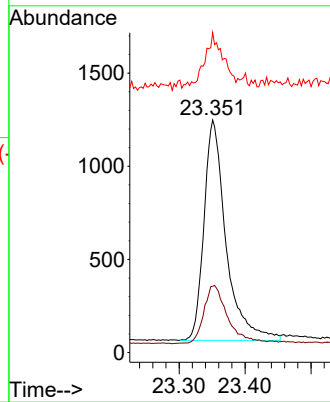
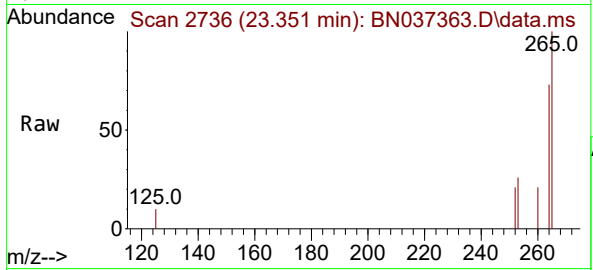




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.351 min Scan# 21
Delta R.T. -0.003 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

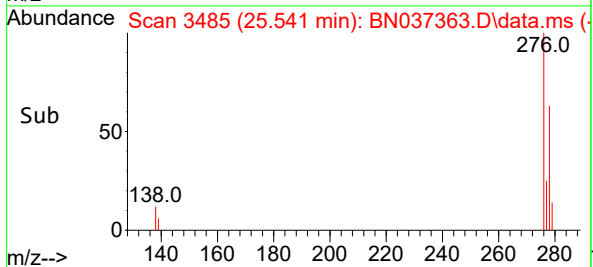
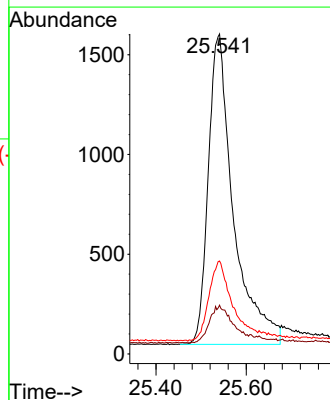
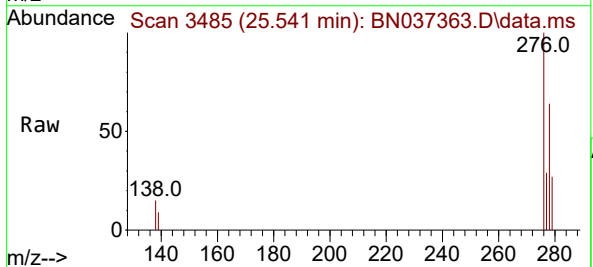
Instrument :
BNA_N
ClientSampleId :
PB168563BS

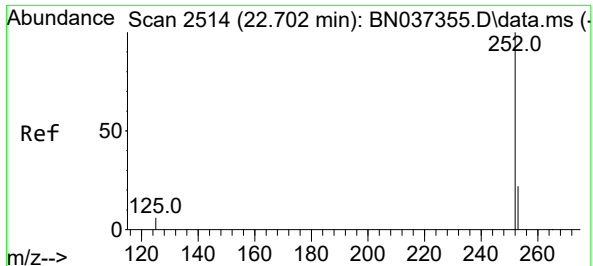
Tgt Ion:264 Resp: 2749
Ion Ratio Lower Upper
264 100
260 28.5 21.4 32.2
265 137.6 71.4 107.0#



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.488 ng
RT: 25.541 min Scan# 3485
Delta R.T. -0.000 min
Lab File: BN037363.D
Acq: 20 Jun 2025 23:28

Tgt Ion:276 Resp: 6014
Ion Ratio Lower Upper
276 100
138 11.2 2.2 3.2#
277 24.2 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 0.519 ng

RT: 22.699 min Scan# 2513

Delta R.T. -0.003 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

Instrument :

BNA_N

ClientSampleId :

PB168563BS

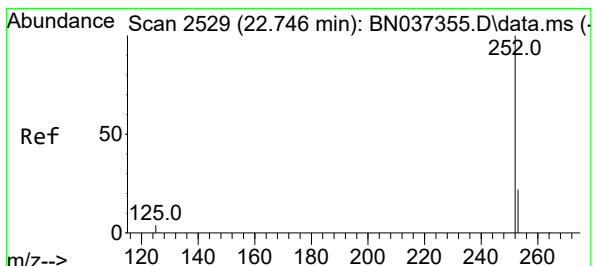
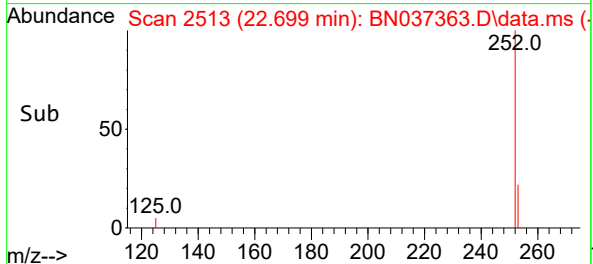
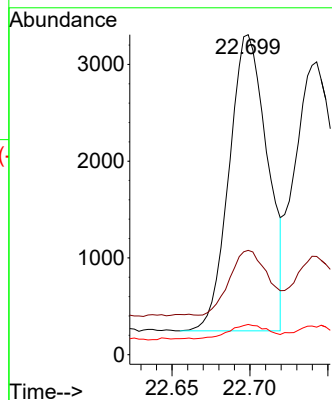
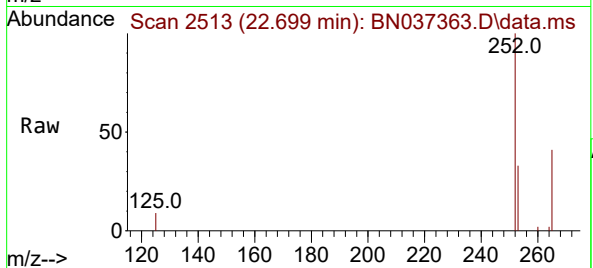
Tgt Ion:252 Resp: 5246

Ion Ratio Lower Upper

252 100

253 32.6 26.6 40.0

125 9.5 6.1 9.1#



#38

Benzo(k)fluoranthene

Concen: 0.539 ng

RT: 22.743 min Scan# 2528

Delta R.T. -0.003 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

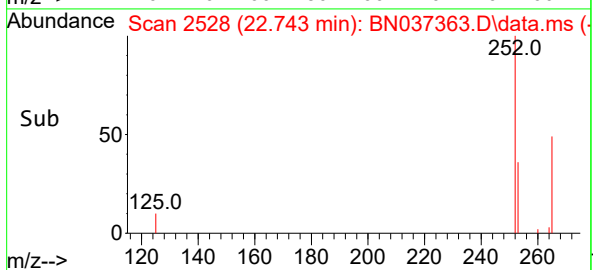
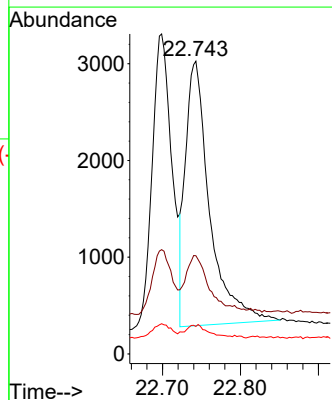
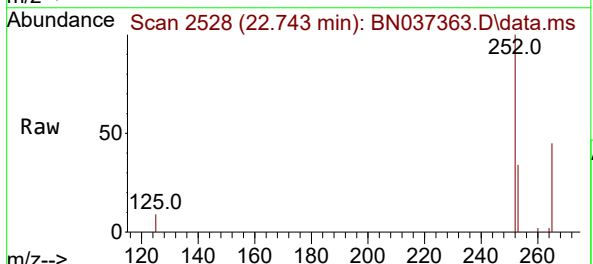
Tgt Ion:252 Resp: 5910

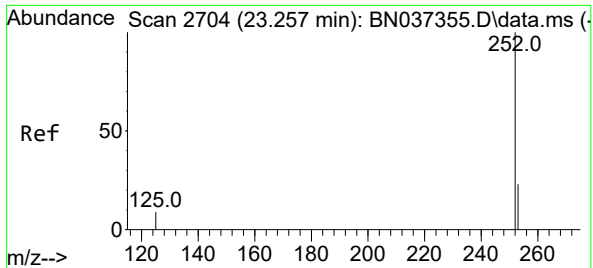
Ion Ratio Lower Upper

252 100

253 33.5 26.7 40.1

125 9.4 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.487 ng

RT: 23.254 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

Instrument :

BNA_N

ClientSampleId :

PB168563BS

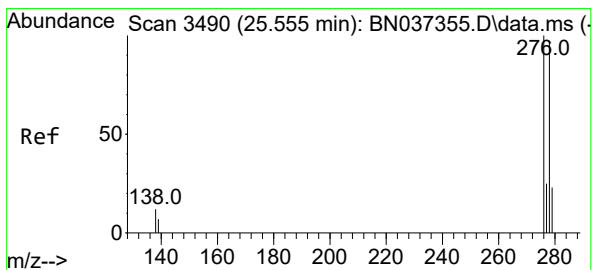
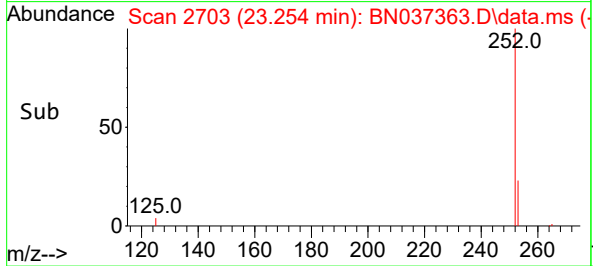
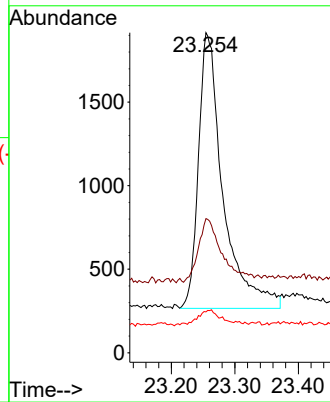
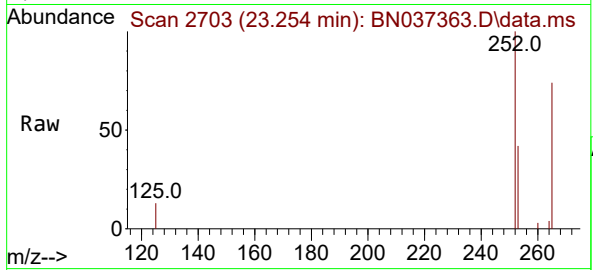
Tgt Ion:252 Resp: 4418

Ion Ratio Lower Upper

252 100

253 41.9 31.6 47.4

125 12.8 8.4 12.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.537 ng

RT: 25.555 min Scan# 3490

Delta R.T. -0.000 min

Lab File: BN037363.D

Acq: 20 Jun 2025 23:28

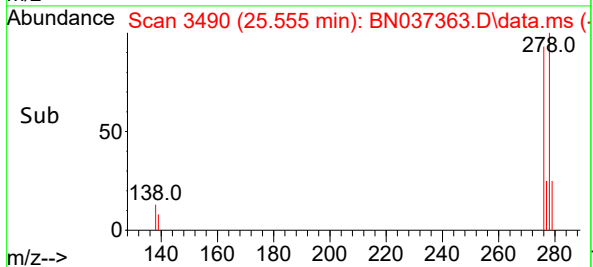
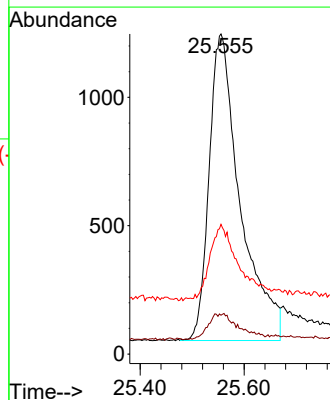
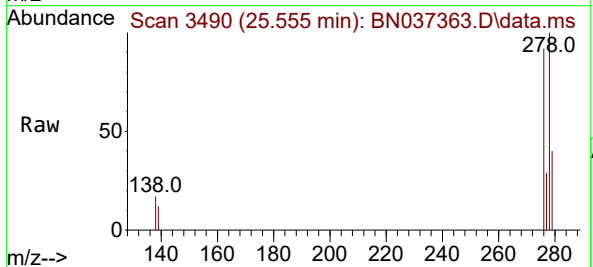
Tgt Ion:278 Resp: 4975

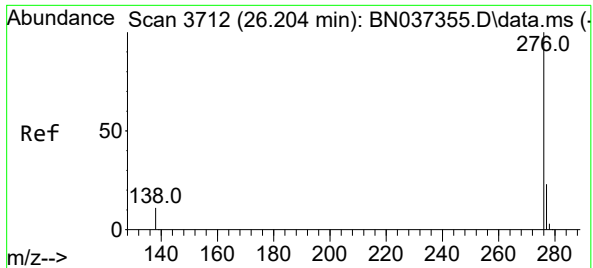
Ion Ratio Lower Upper

278 100

139 12.1 10.2 15.4

279 40.5 35.6 53.4





#41

Benzo(g,h,i)perylene

Concen: 0.464 ng

RT: 26.201 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037363.D

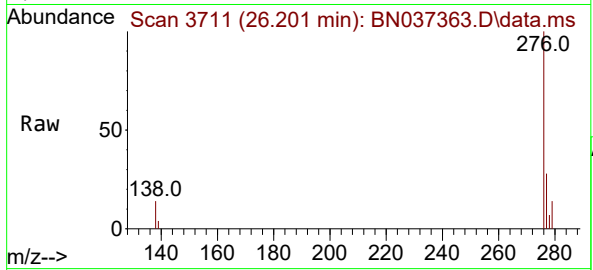
Acq: 20 Jun 2025 23:28

Instrument :

BNA_N

ClientSampleId :

PB168563BS



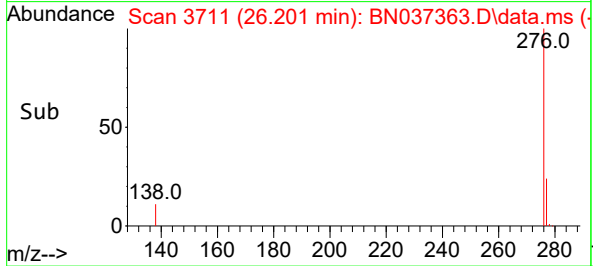
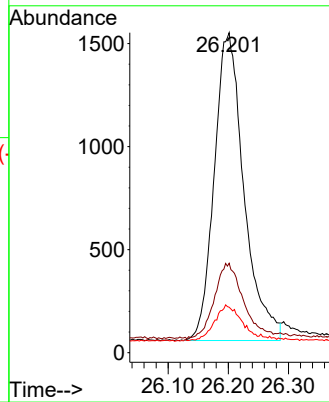
Tgt Ion:276 Resp: 5107

Ion Ratio Lower Upper

276 100

277 27.9 22.7 34.1

138 14.2 9.4 14.2#



Report of Analysis

Client:	AECOM Technical Services, Inc.	Date Collected:	
Project:	NAVFAC NWIRP Bethpage, NY Site 1 OU-2 - 32258	Date Received:	
Client Sample ID:	PB168563BSD	SDG No.:	Q2345
Lab Sample ID:	PB168563BSD	Matrix:	Water
Analytical Method:	SW8270ESIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-SIMGroup1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN037364.D	1	06/20/25 09:32	06/21/25 00:04	PB168563

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.30		0.070	0.20	0.20	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.39		30 - 150		97%	SPK: 0.4
93951-69-0	Fluoranthene-d10	0.35		30 - 150		86%	SPK: 0.4
4165-60-0	Nitrobenzene-d5	0.39		55 - 111		97%	SPK: 0.4
321-60-8	2-Fluorobiphenyl	0.40		53 - 106		99%	SPK: 0.4
1718-51-0	Terphenyl-d14	0.38		58 - 132		94%	SPK: 0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	1890	7.568				
1146-65-2	Naphthalene-d8	4100	10.34				
15067-26-2	Acenaphthene-d10	2620	14.213				
1517-22-2	Phenanthrene-d10	5040	16.971				
1719-03-5	Chrysene-d12	4190	21.162				
1520-96-3	Perylene-d12	4470	23.354				

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\BN062125\
 Data File : BN037364.D
 Acq On : 21 Jun 2025 00:04
 Operator : RC/JU
 Sample : PB168563BSD
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168563BSD

Quant Time: Jun 21 00:33:22 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:41:54 2025
 Response via : Initial Calibration

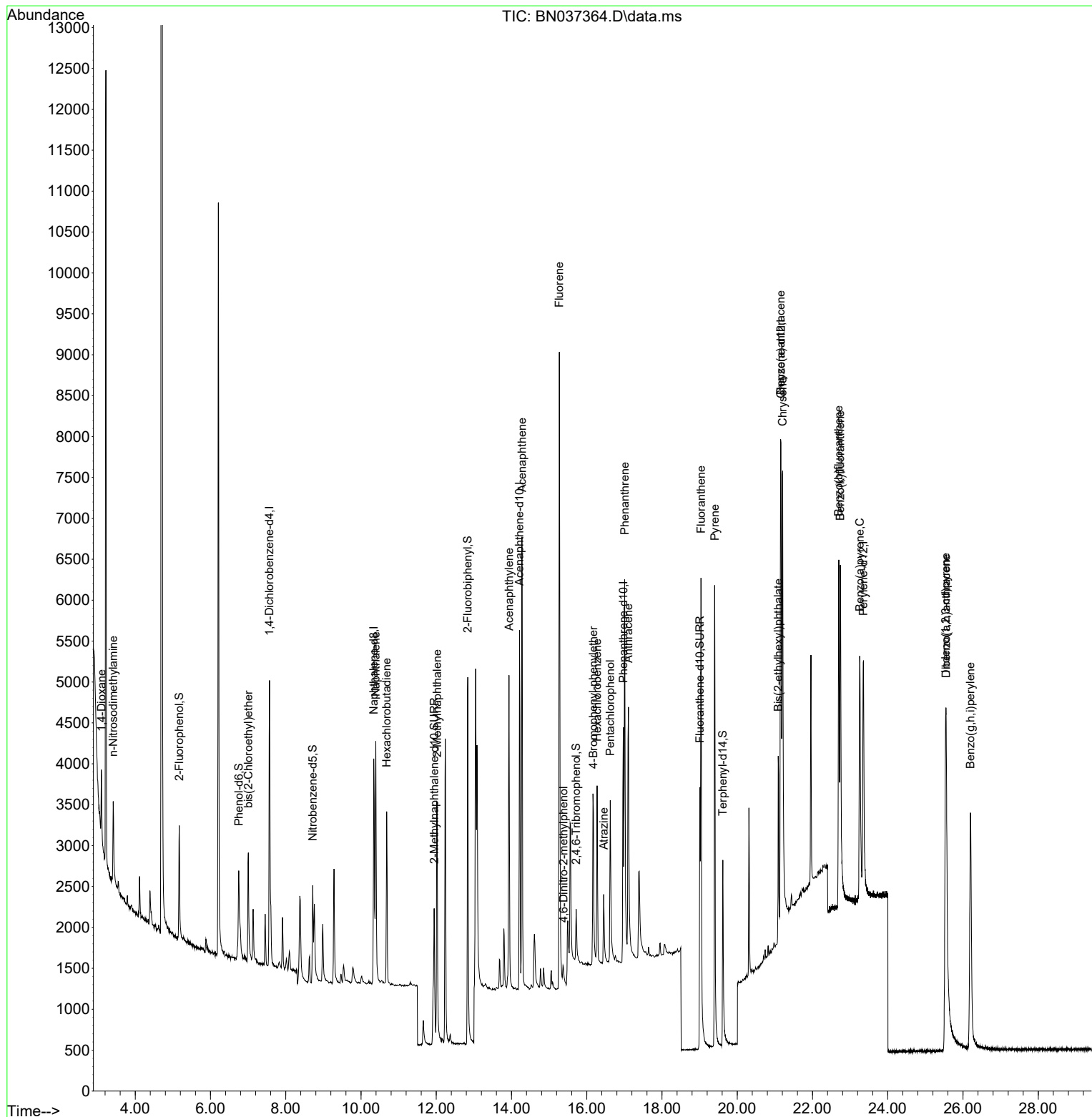
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1885	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4095	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2623	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5035	0.400	ng	# 0.00
29) Chrysene-d12	21.162	240	4193	0.400	ng	0.00
35) Perylene-d12	23.354	264	4470	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	1274	0.338	ng	0.00
5) Phenol-d6	6.752	99	1342	0.346	ng	0.00
8) Nitrobenzene-d5	8.717	82	1284	0.388	ng	0.00
11) 2-Methylnaphthalene-d10	11.945	152	2563m	0.386	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	522	0.339	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	4574	0.397	ng	0.00
27) Fluoranthene-d10	19.007	212	5003	0.346	ng	0.00
31) Terphenyl-d14	19.616	244	3587	0.375	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	583	0.304	ng	# 36
3) n-Nitrosodimethylamine	3.415	42	653	0.372	ng	# 70
6) bis(2-Chloroethyl)ether	7.004	93	1260	0.366	ng	99
9) Naphthalene	10.394	128	4026	0.372	ng	# 89
10) Hexachlorobutadiene	10.682	225	1748	0.410	ng	# 100
12) 2-Methylnaphthalene	12.021	142	2474	0.328	ng	93
16) Acenaphthylene	13.935	152	4445	0.403	ng	98
17) Acenaphthene	14.277	154	2642	0.364	ng	98
18) Fluorene	15.271	166	3709	0.364	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	419	0.346	ng	# 81
21) 4-Bromophenyl-phenylether	16.177	248	1344	0.375	ng	96
22) Hexachlorobenzene	16.276	284	1596	0.409	ng	99
23) Atrazine	16.450	200	1011	0.354	ng	# 88
24) Pentachlorophenol	16.624	266	1337	0.688	ng	97
25) Phenanthrene	17.009	178	5370	0.368	ng	99
26) Anthracene	17.108	178	4862	0.362	ng	99
28) Fluoranthene	19.035	202	6244	0.339	ng	# 99
30) Pyrene	19.402	202	6351	0.373	ng	99
32) Benzo(a)anthracene	21.153	228	5141	0.373	ng	99
33) Chrysene	21.206	228	6472	0.387	ng	97
34) Bis(2-ethylhexyl)phtha...	21.090	149	2023	0.358	ng	96
36) Indeno(1,2,3-cd)pyrene	25.538	276	7744	0.386	ng	# 92
37) Benzo(b)fluoranthene	22.696	252	5838	0.355	ng	95
38) Benzo(k)fluoranthene	22.740	252	6945	0.389	ng	96
39) Benzo(a)pyrene	23.254	252	5888	0.399	ng	95
40) Dibenzo(a,h)anthracene	25.552	278	5912	0.392	ng	89
41) Benzo(g,h,i)perylene	26.199	276	7039	0.393	ng	96

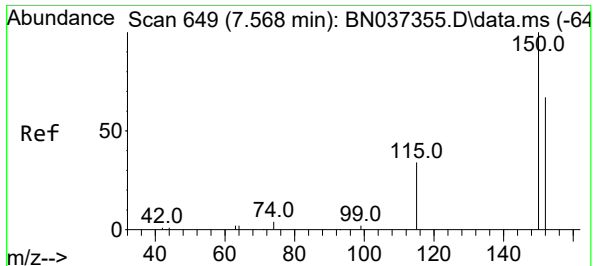
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037364.D
Acq On : 21 Jun 2025 00:04
Operator : RC/JU
Sample : PB168563BSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Quant Time: Jun 21 00:33:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration

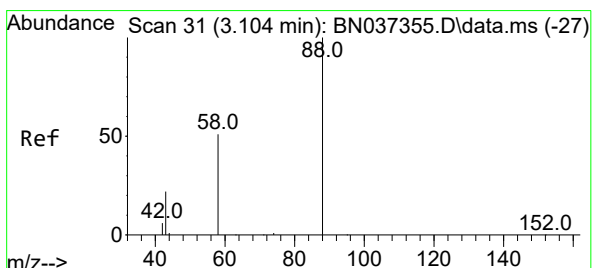
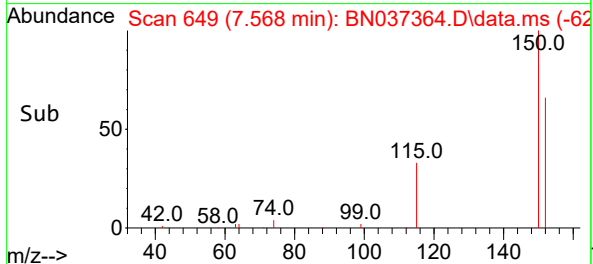
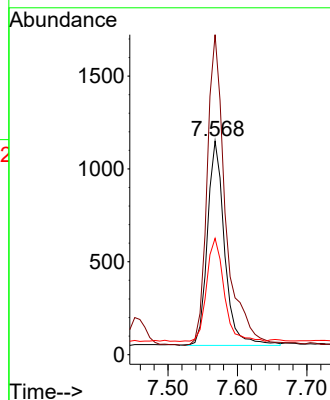
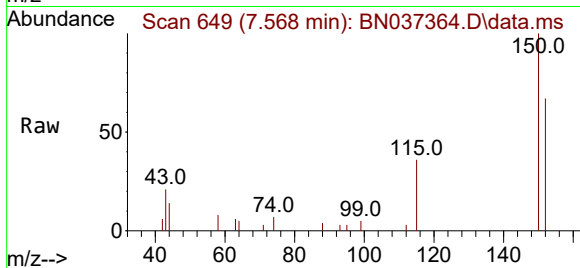




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 649
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

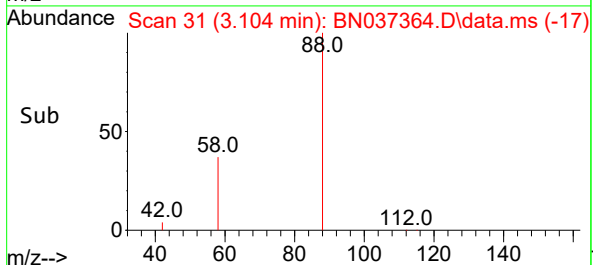
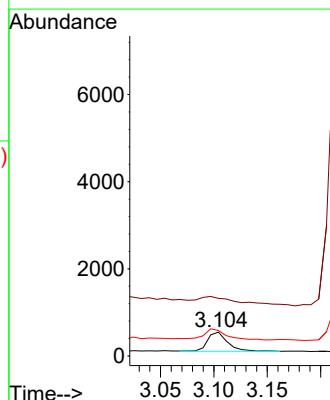
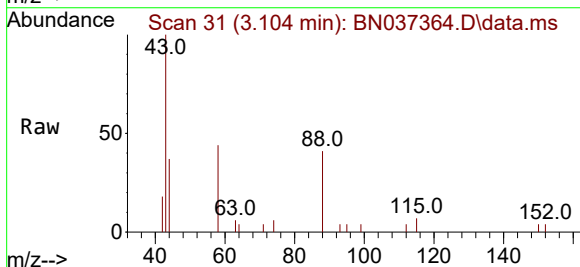
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

Tgt Ion:152 Resp: 1885
Ion Ratio Lower Upper
152 100
150 149.8 112.7 169.1
115 54.4 45.9 68.9

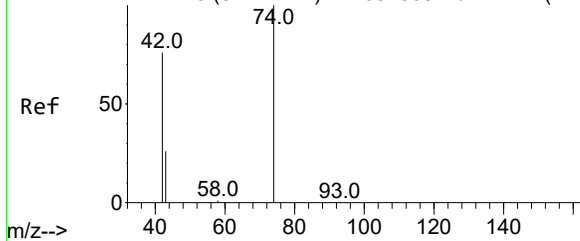


#2
1,4-Dioxane
Concen: 0.304 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion: 88 Resp: 583
Ion Ratio Lower Upper
88 100
43 101.0 21.0 31.6#
58 59.7 38.0 57.0#



Abundance Scan 75 (3.422 min): BN037355.D\data.ms (-71)



#3

n-Nitrosodimethylamine

Concen: 0.372 ng

RT: 3.415 min Scan# 74

Delta R.T. -0.007 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

Instrument :

BNA_N

ClientSampleId :

PB168563BSD

Tgt Ion: 42 Resp: 653

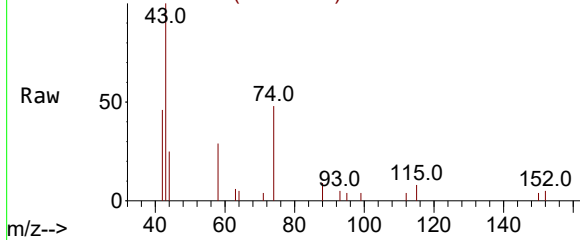
Ion Ratio Lower Upper

42 100

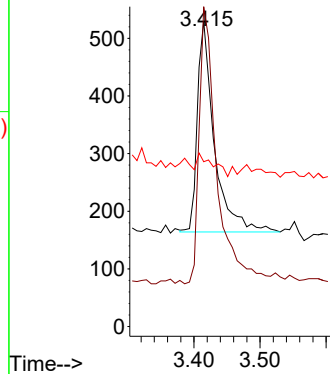
74 137.4 84.3 126.5#

44 10.1 5.0 7.4#

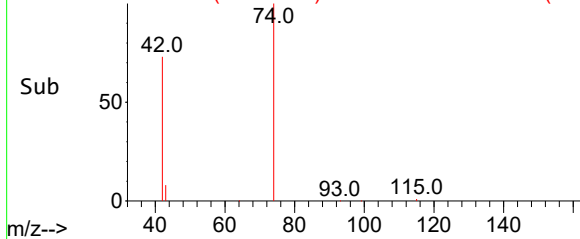
Abundance Scan 74 (3.415 min): BN037364.D\data.ms



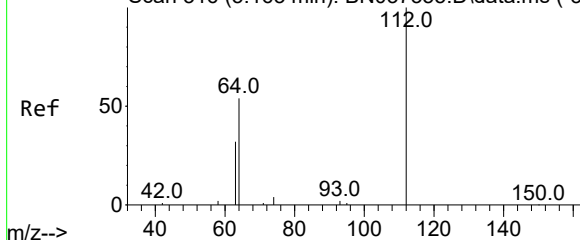
Abundance



Abundance Scan 74 (3.415 min): BN037364.D\data.ms (-54)



Abundance Scan 316 (5.163 min): BN037355.D\data.ms (-30)



#4

2-Fluorophenol

Concen: 0.338 ng

RT: 5.170 min Scan# 317

Delta R.T. 0.007 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

Tgt Ion: 112 Resp: 1274

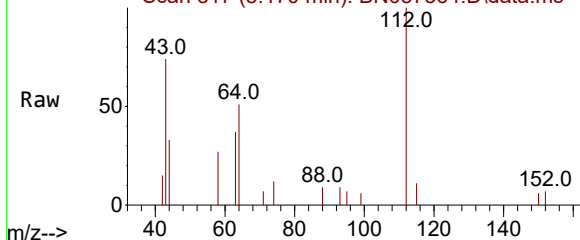
Ion Ratio Lower Upper

112 100

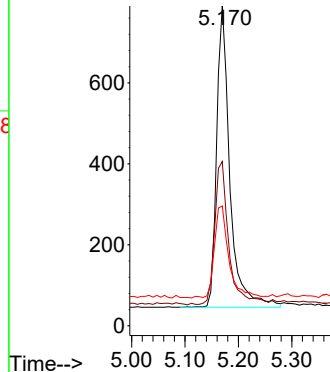
64 50.5 38.7 58.1

63 33.0 26.4 39.6

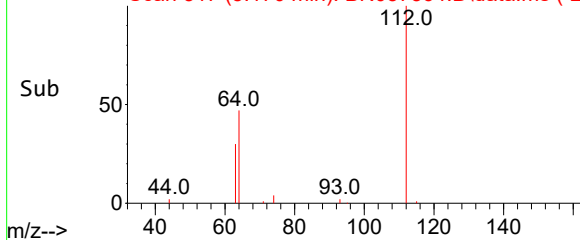
Abundance Scan 317 (5.170 min): BN037364.D\data.ms

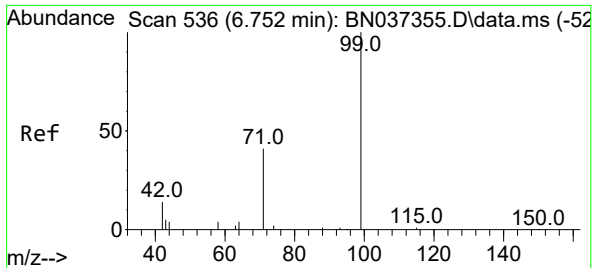


Abundance



Abundance Scan 317 (5.170 min): BN037364.D\data.ms (-28)

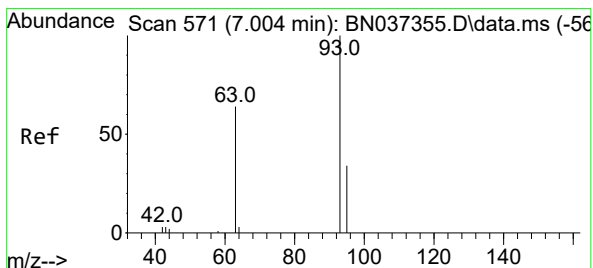
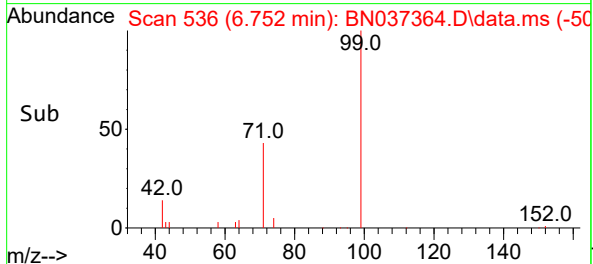
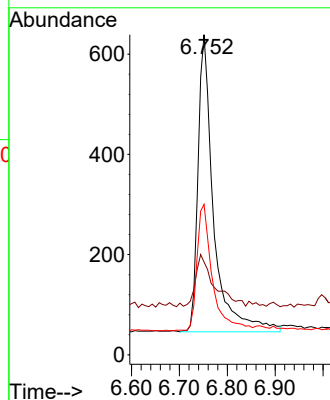
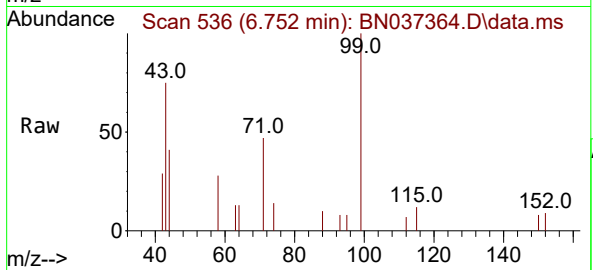




#5
Phenol-d6
Concen: 0.346 ng
RT: 6.752 min Scan# 51
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

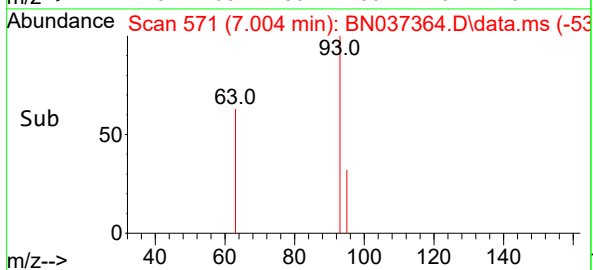
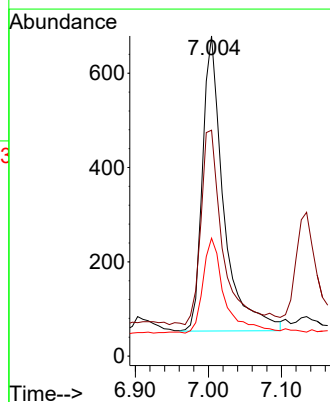
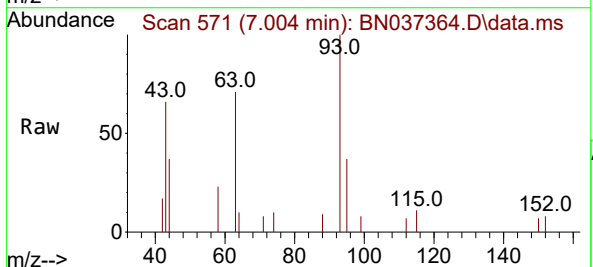
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

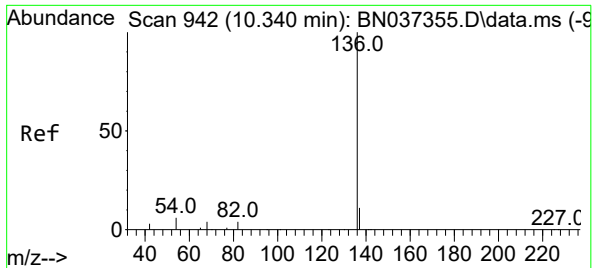
Tgt Ion: 99 Resp: 1342
Ion Ratio Lower Upper
99 100
42 21.1 19.8 29.8
71 42.0 42.6 64.0#



#6
bis(2-Chloroethyl)ether
Concen: 0.366 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion: 93 Resp: 1260
Ion Ratio Lower Upper
93 100
63 66.8 53.2 79.8
95 32.7 27.3 40.9

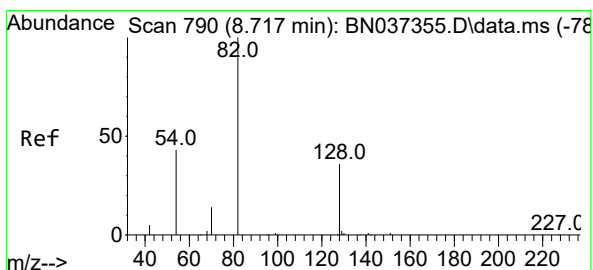
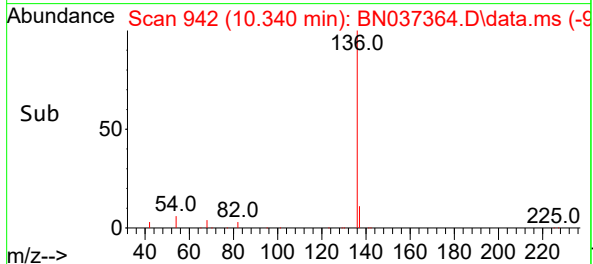
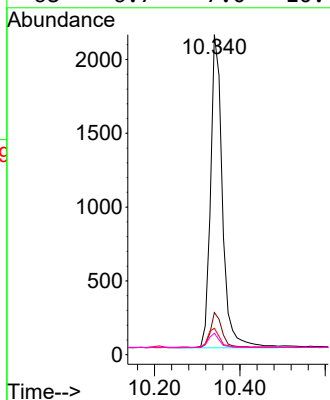
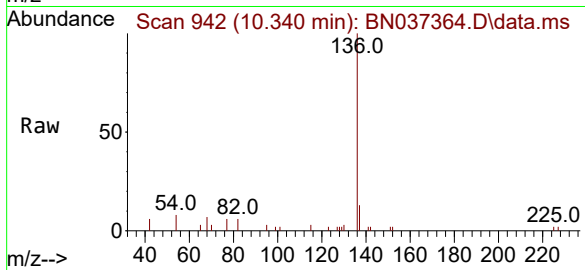




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

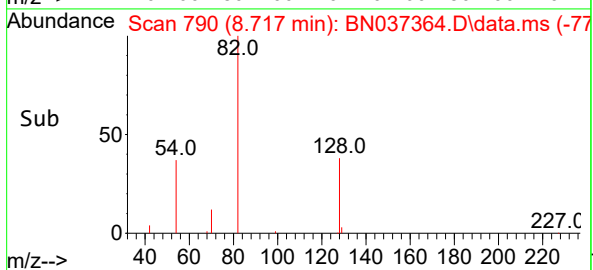
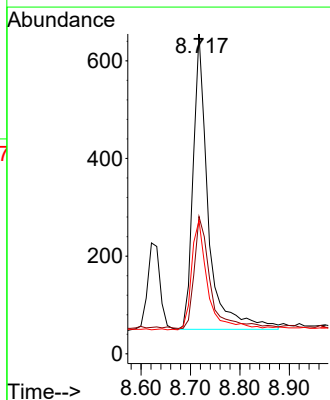
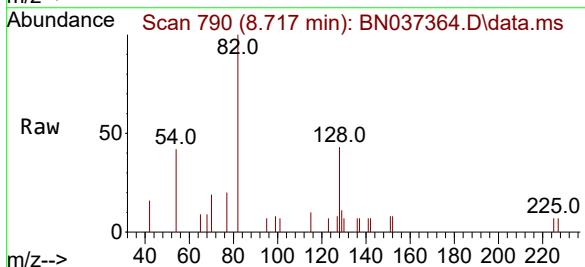
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

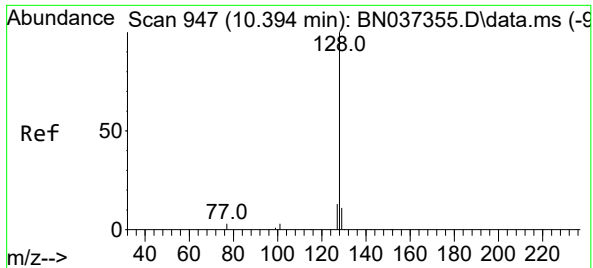
Tgt Ion:	136	Resp:	4095
Ion	Ratio	Lower	Upper
136	100		
137	13.1	12.2	18.2
54	8.3	8.8	13.2#
68	6.7	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 0.388 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:	82	Resp:	1284
Ion	Ratio	Lower	Upper
82	100		
128	42.9	42.5	63.7
54	41.7	43.2	64.8#

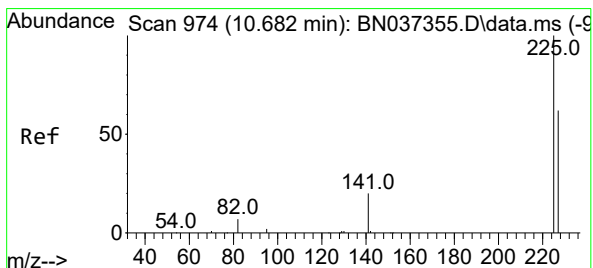
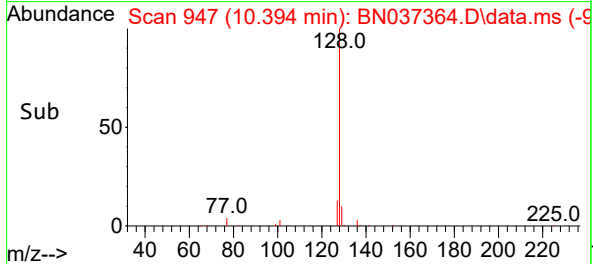
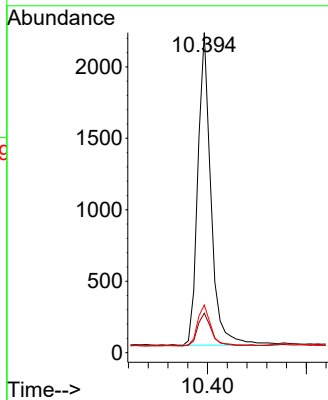
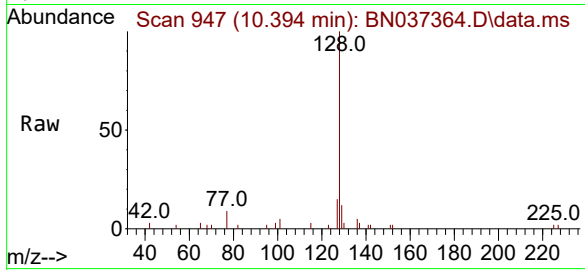




#9
Naphthalene
Concen: 0.372 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

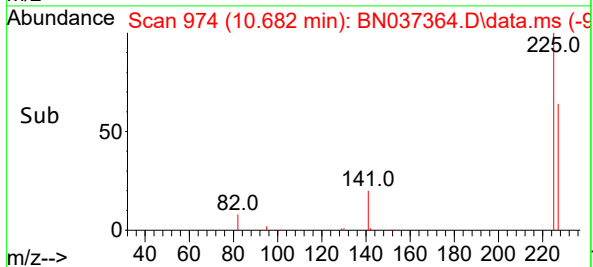
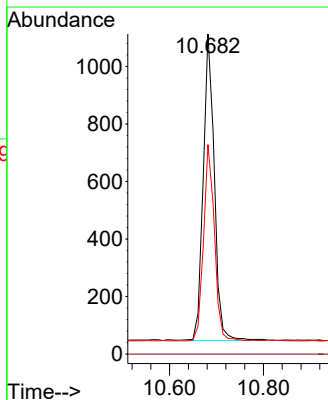
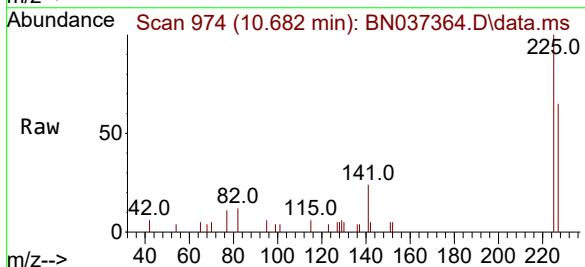
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

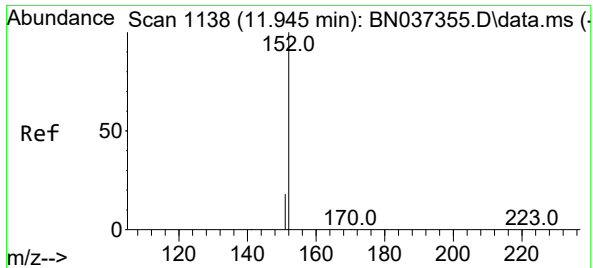
Tgt Ion	128	129	127
Resp:	4026		
Ion Ratio	100	12.4	14.9
Lower		14.0	15.8
Upper		21.0#	23.8#



#10
Hexachlorobutadiene
Concen: 0.410 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion	225	223	227
Resp:	1748		
Ion Ratio	100	0.0	62.6
Lower		0.0	50.3
Upper		0.0	75.5

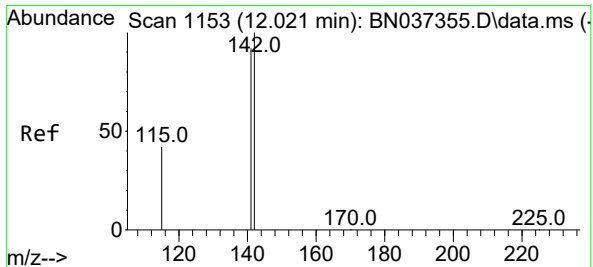
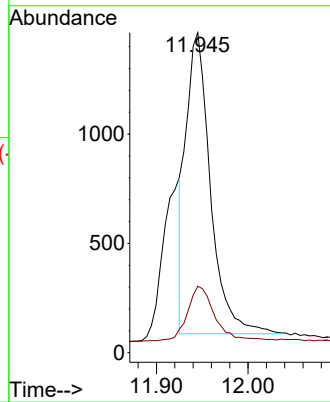
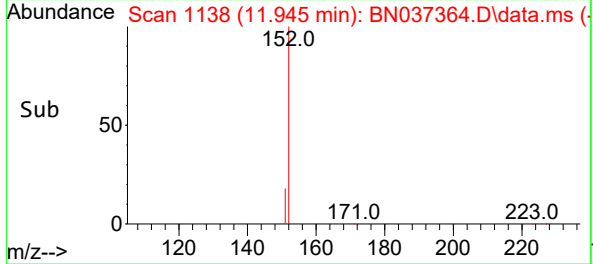
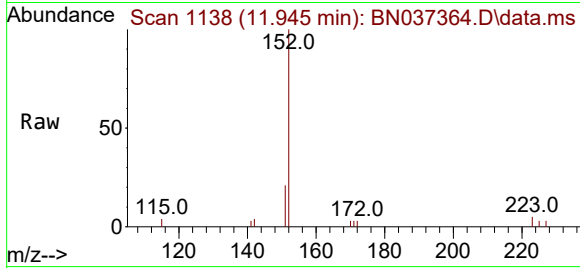




#11
2-Methylnaphthalene-d10
Concen: 0.386 ng m
RT: 11.945 min Scan# 1138
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

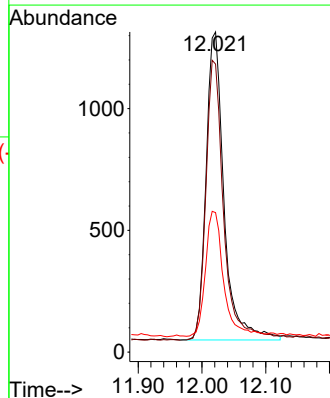
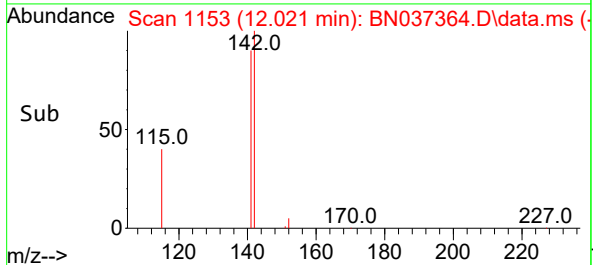
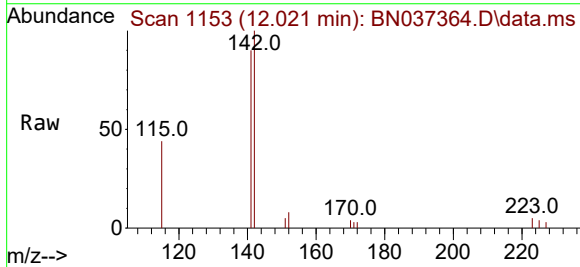
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

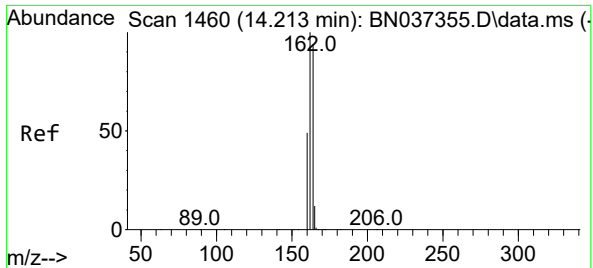
Tgt Ion:152 Resp: 2563
Ion Ratio Lower Upper
152 100
151 21.0 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.328 ng
RT: 12.021 min Scan# 1153
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:142 Resp: 2474
Ion Ratio Lower Upper
142 100
141 90.0 70.2 105.2
115 43.6 43.0 64.4

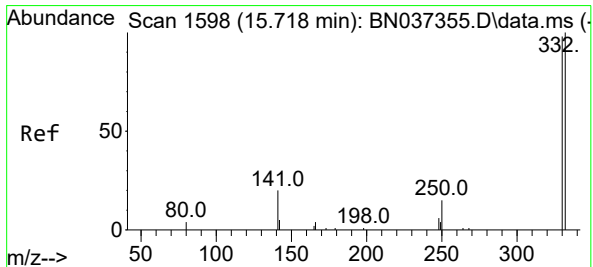
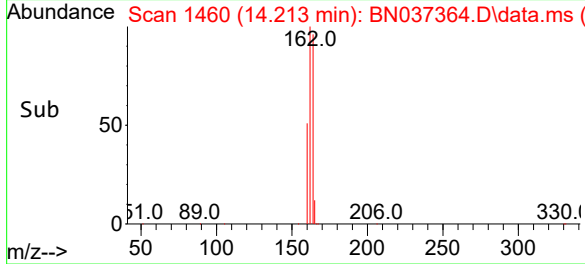
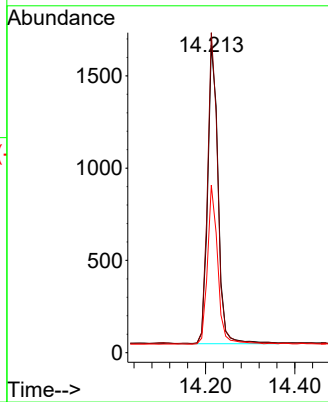
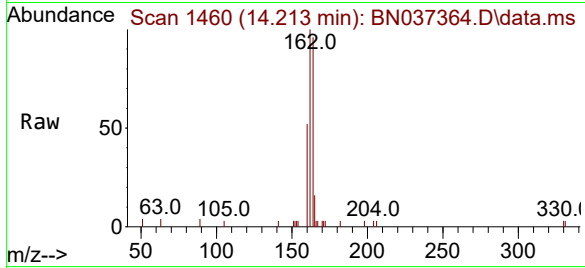




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

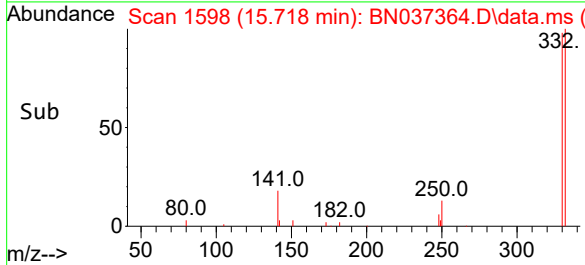
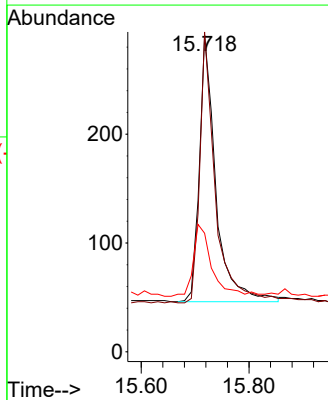
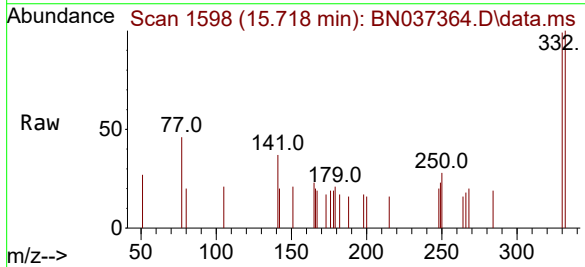
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

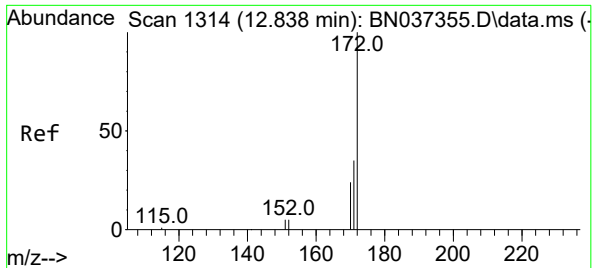
Tgt Ion	Ratio	Lower	Upper
164	100		
162	104.1	81.5	122.3
160	54.5	43.0	64.4



#14
2,4,6-Tribromophenol
Concen: 0.339 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.8	78.4	117.6
141	30.7	24.4	36.6

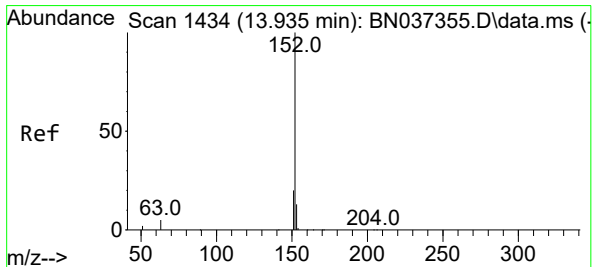
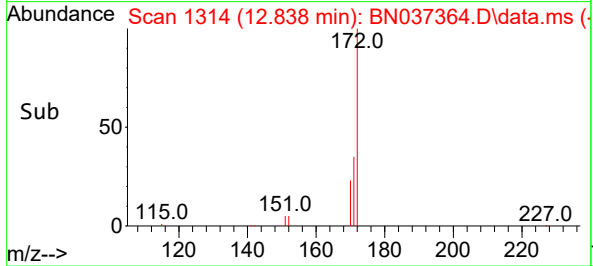
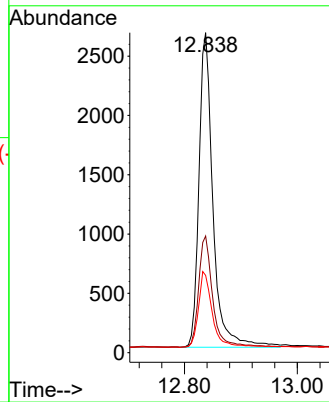
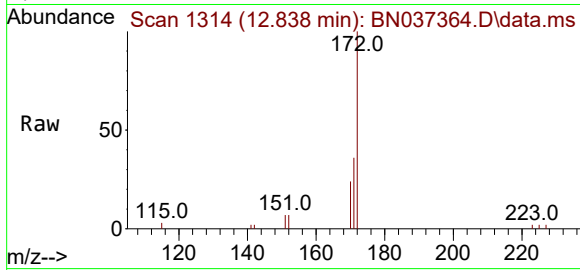




#15
2-Fluorobiphenyl
Concen: 0.397 ng
RT: 12.838 min Scan# 1314
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

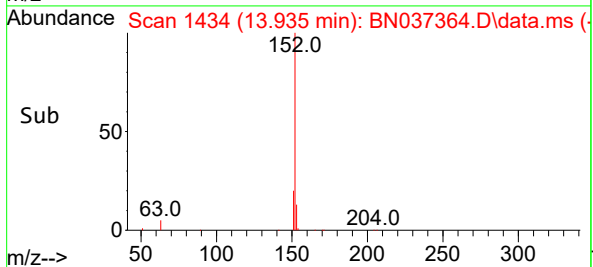
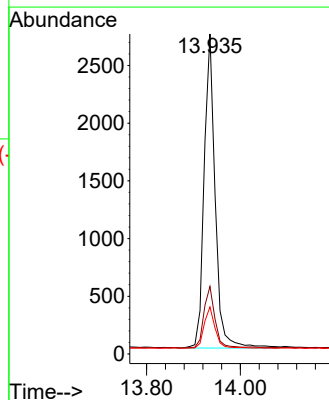
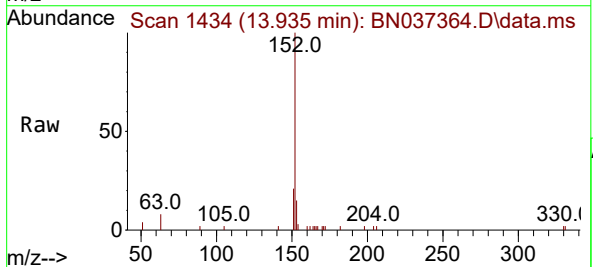
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

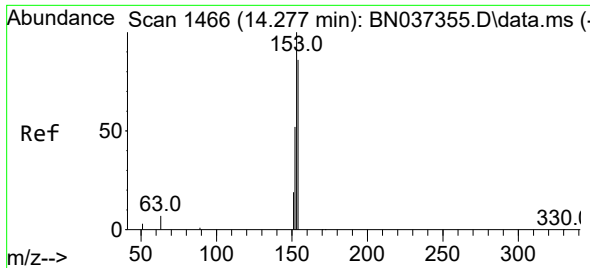
Tgt Ion:	172	Resp:	4574
Ion Ratio	Lower	Upper	
172	100		
171	36.5	30.8	46.2
170	24.2	21.9	32.9



#16
Acenaphthylene
Concen: 0.403 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:	152	Resp:	4445
Ion Ratio	Lower	Upper	
152	100		
151	19.4	16.6	24.8
153	13.3	10.2	15.2

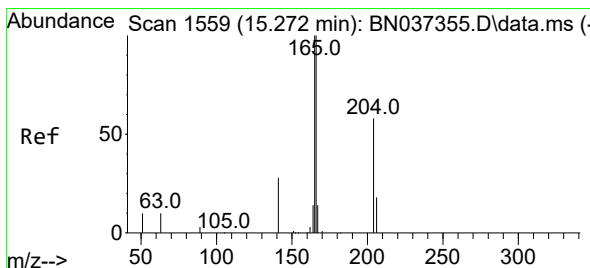
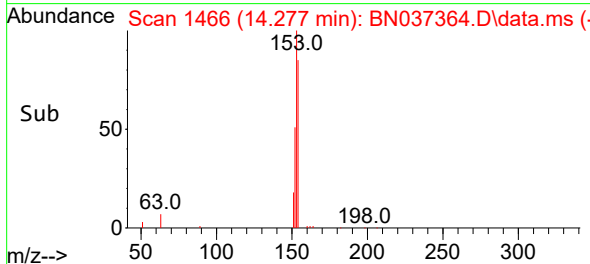
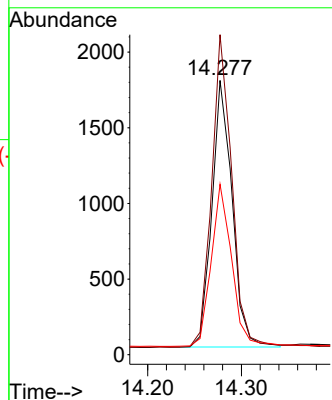
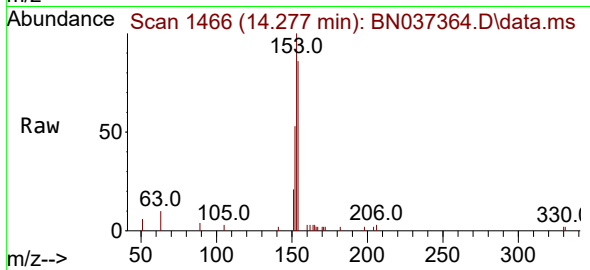




#17
Acenaphthene
Concen: 0.364 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

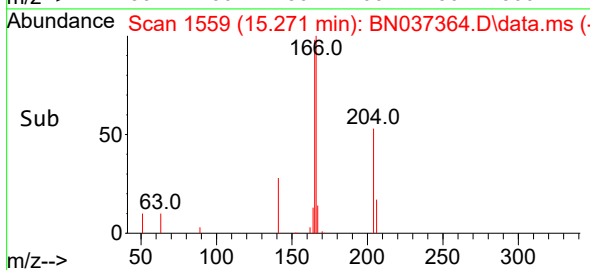
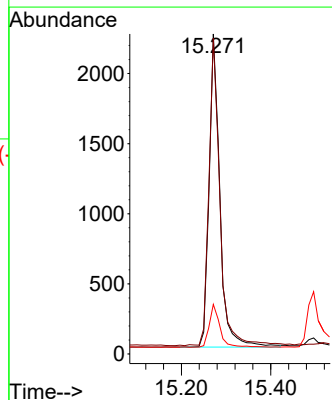
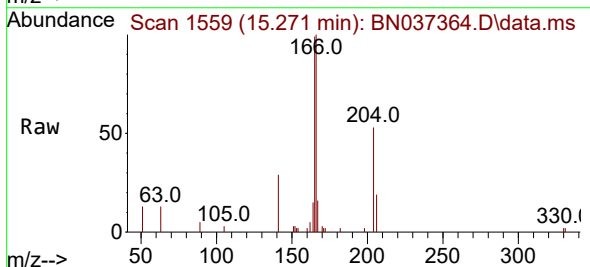
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

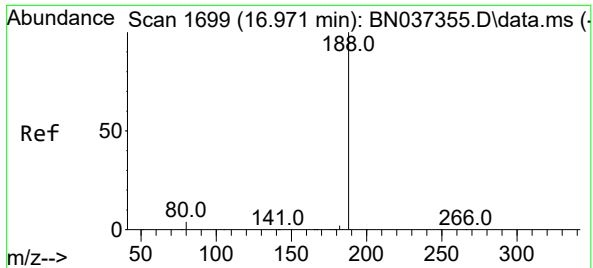
Tgt Ion	Ratio	Lower	Upper
154	100		
153	118.2	93.1	139.7
152	62.7	48.6	73.0



#18
Fluorene
Concen: 0.364 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion	Ratio	Lower	Upper
166	100		
165	100.1	79.5	119.3
167	13.8	10.7	16.1

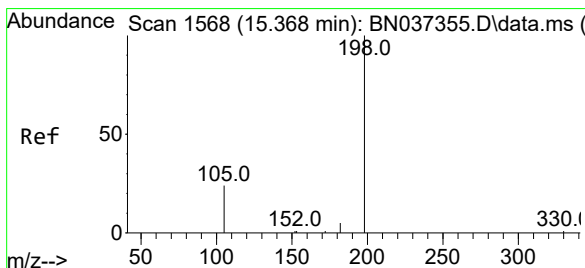
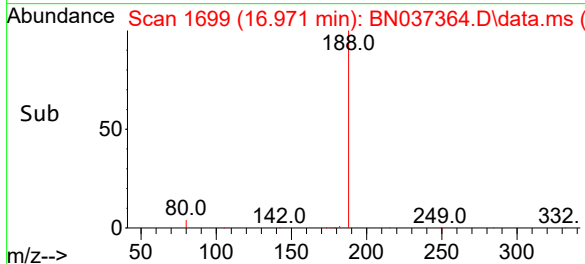
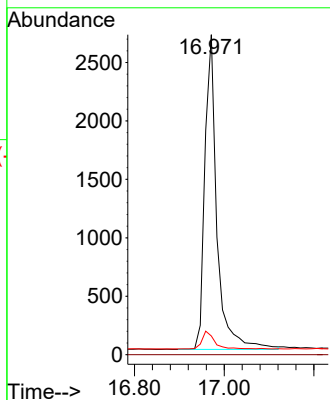
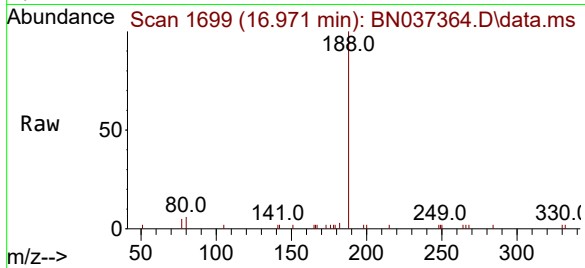




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

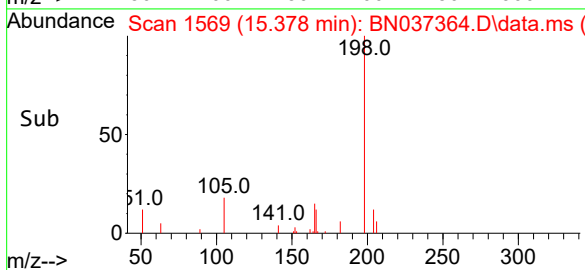
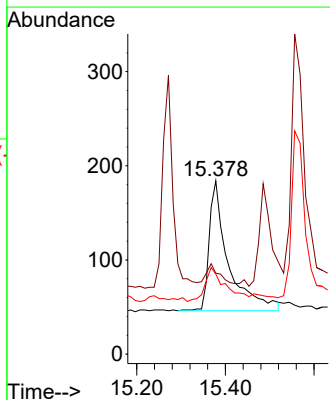
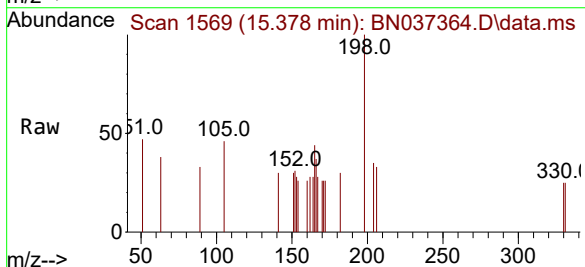
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

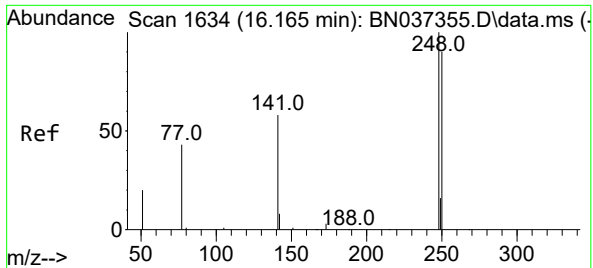
Tgt Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	5.9	6.2	9.2#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.346 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.011 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion	Ratio	Lower	Upper
198	100		
51	46.7	51.4	77.0#
105	46.2	45.5	68.3

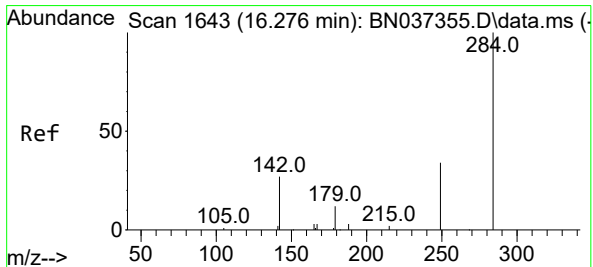
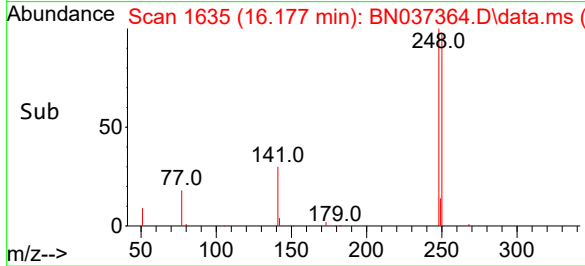
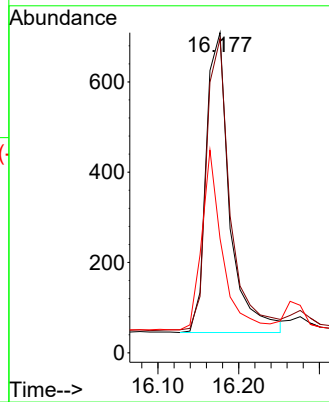
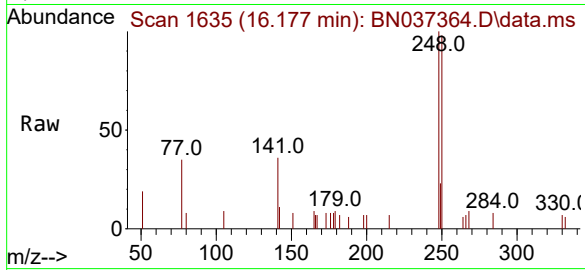




#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.012 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

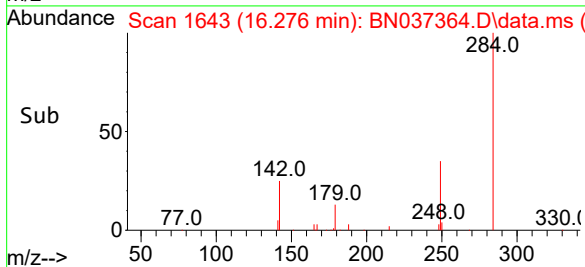
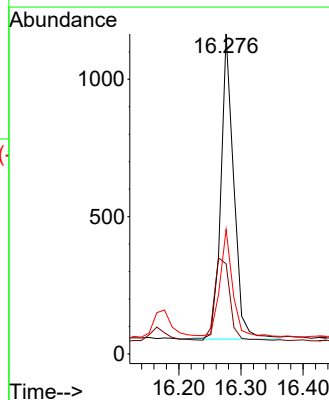
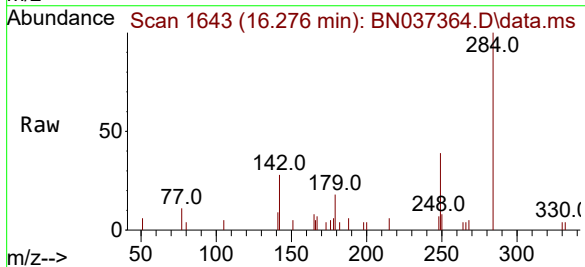
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

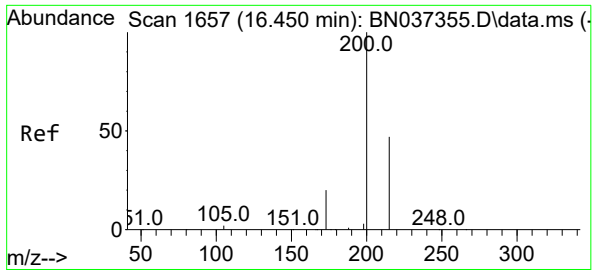
Tgt Ion:	248	Resp:	1344
Ion Ratio	Lower	Upper	
248	100		
250	98.2	80.4	120.6
141	35.7	33.3	49.9



#22
Hexachlorobenzene
Concen: 0.409 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:	284	Resp:	1596
Ion Ratio	Lower	Upper	
284	100		
142	33.3	27.0	40.6
249	35.8	28.8	43.2

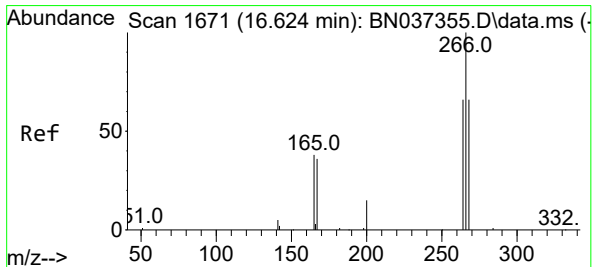
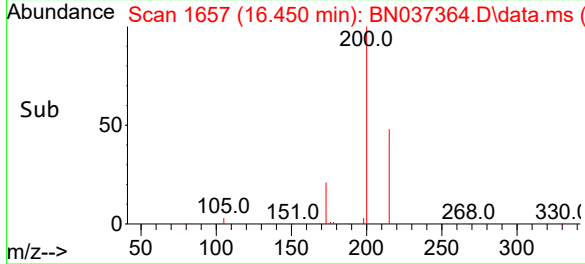
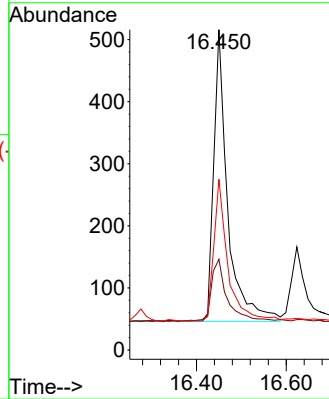
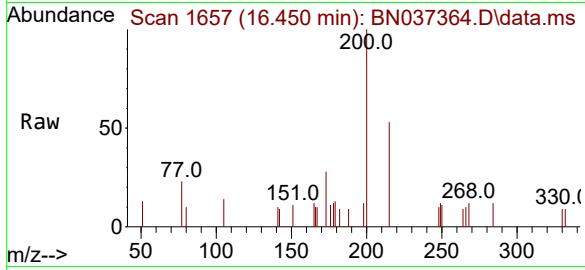




#23
Atrazine
Concen: 0.354 ng
RT: 16.450 min Scan# 1657
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

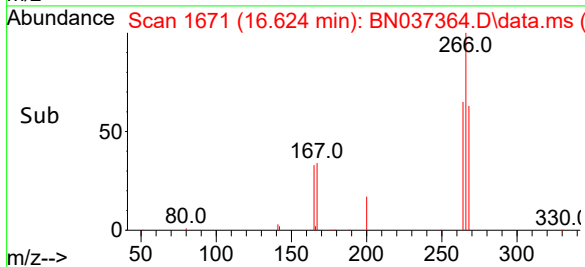
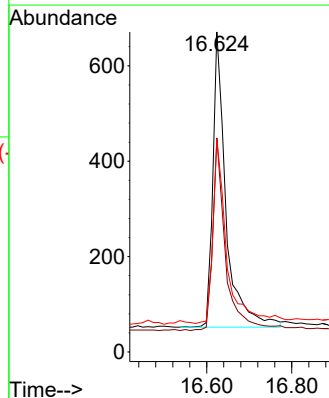
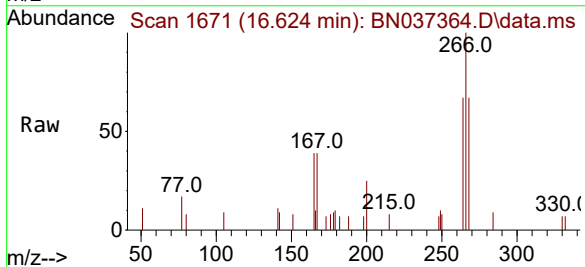
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

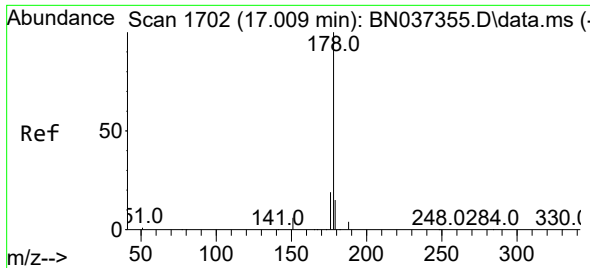
Tgt Ion:200 Resp: 1011
Ion Ratio Lower Upper
200 100
173 28.3 29.2 43.8#
215 53.3 48.8 73.2



#24
Pentachlorophenol
Concen: 0.688 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:266 Resp: 1337
Ion Ratio Lower Upper
266 100
264 62.5 50.3 75.5
268 65.4 55.3 82.9

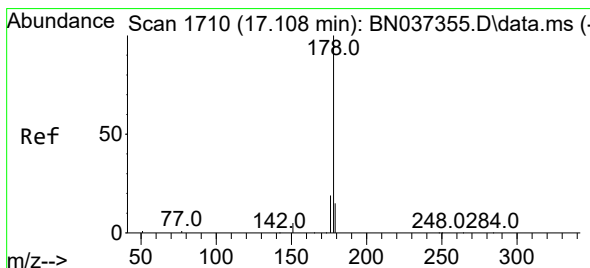
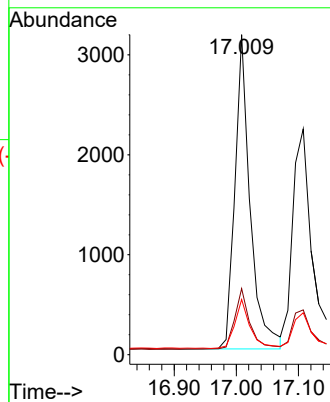
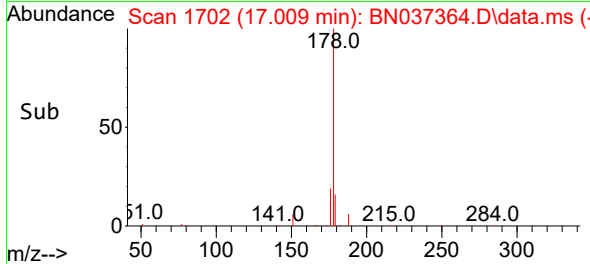
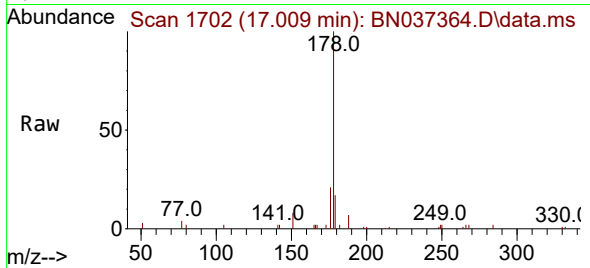




#25
Phenanthrene
Concen: 0.368 ng
RT: 17.009 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

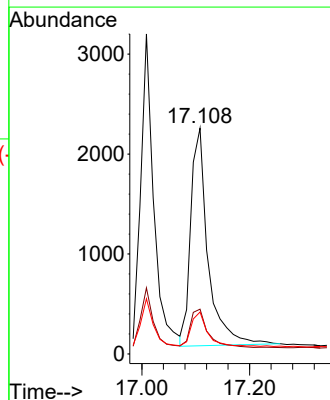
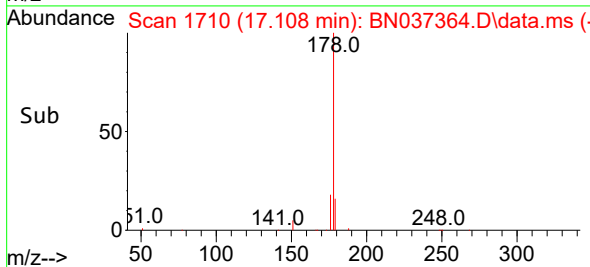
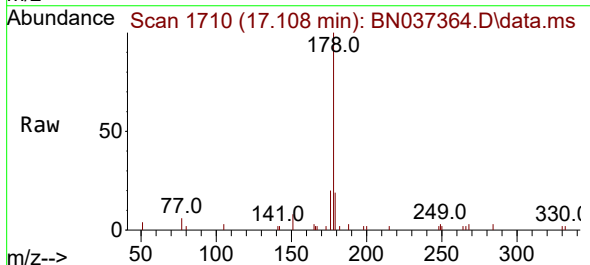
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

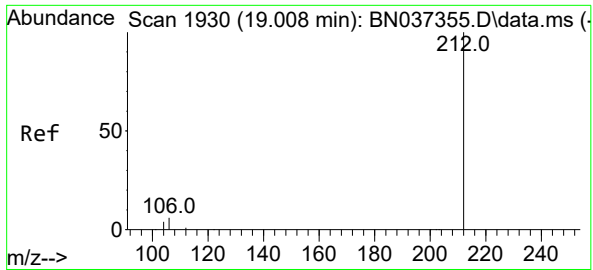
Tgt Ion:178 Resp: 5370
Ion Ratio Lower Upper
178 100
176 19.5 15.2 22.8
179 15.8 12.9 19.3



#26
Anthracene
Concen: 0.362 ng
RT: 17.108 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:178 Resp: 4862
Ion Ratio Lower Upper
178 100
176 18.5 14.7 22.1
179 15.5 13.0 19.6

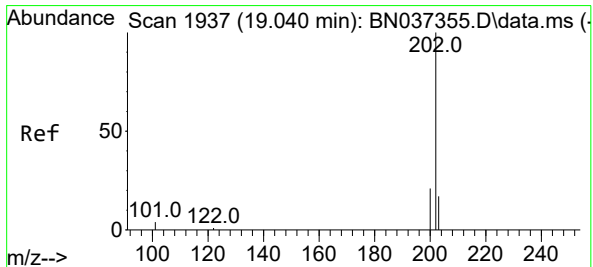
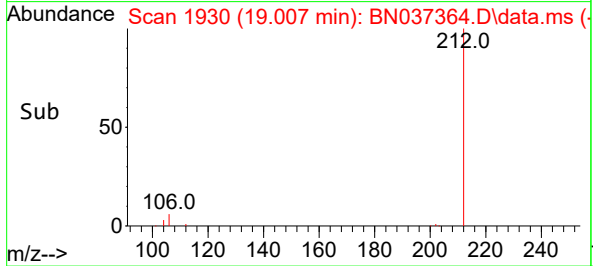
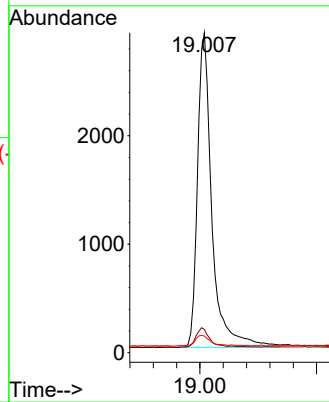
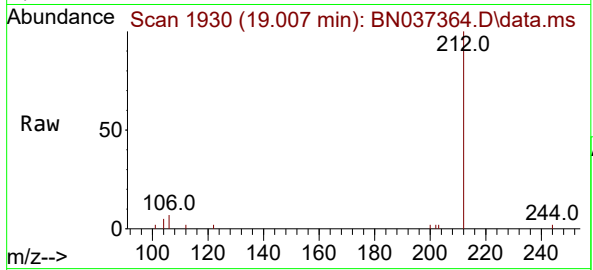




#27
Fluoranthene-d10
Concen: 0.346 ng
RT: 19.007 min Scan# 1930
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

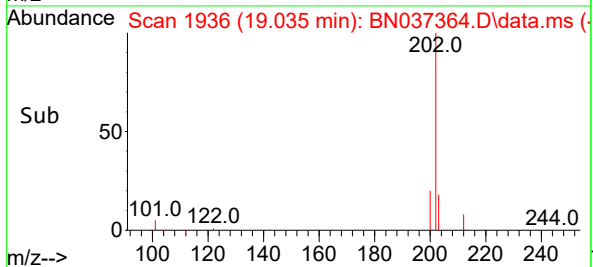
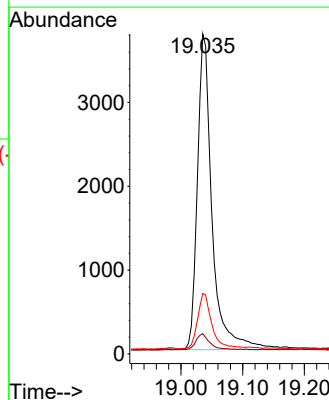
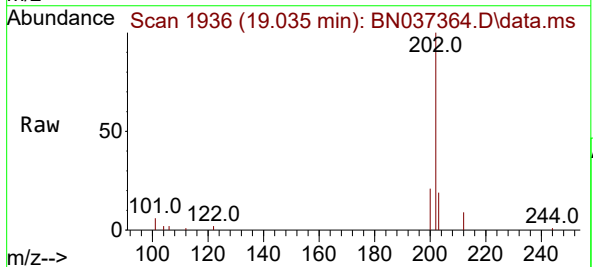
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

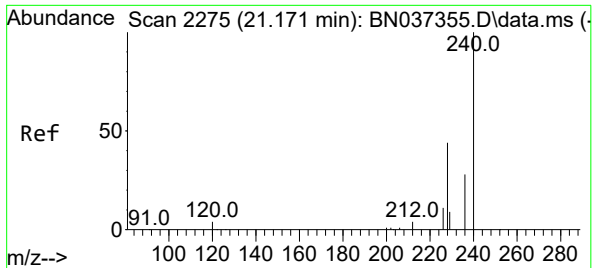
Tgt Ion:212 Resp: 5003
Ion Ratio Lower Upper
212 100
106 6.2 3.0 4.4#
104 3.7 2.0 3.0#



#28
Fluoranthene
Concen: 0.339 ng
RT: 19.035 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:202 Resp: 6244
Ion Ratio Lower Upper
202 100
101 4.9 3.0 4.6#
203 16.9 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

Instrument :

BNA_N

ClientSampleId :

PB168563BSD

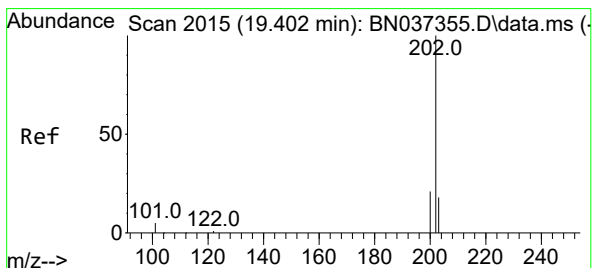
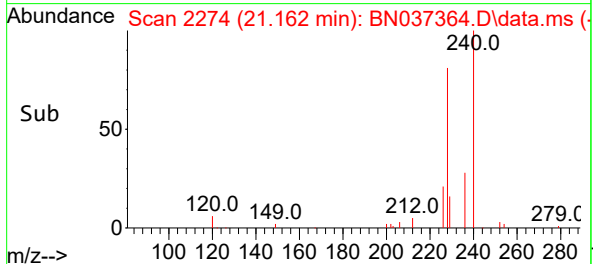
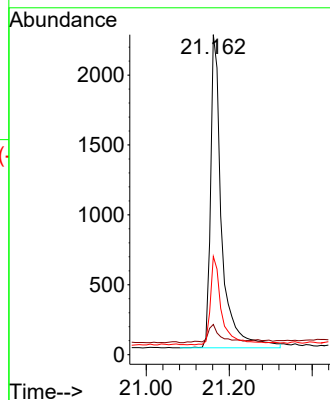
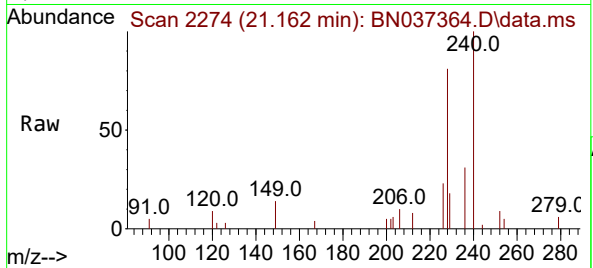
Tgt Ion:240 Resp: 4193

Ion Ratio Lower Upper

240 100

120 9.4 7.5 11.3

236 30.7 24.9 37.3



#30

Pyrene

Concen: 0.373 ng

RT: 19.402 min Scan# 2015

Delta R.T. -0.000 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

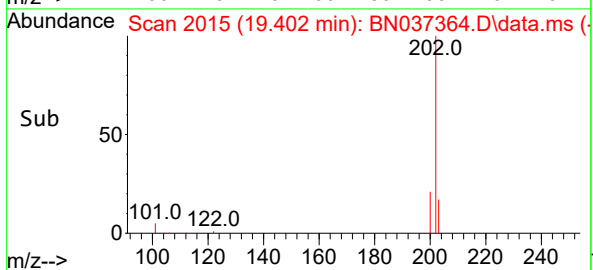
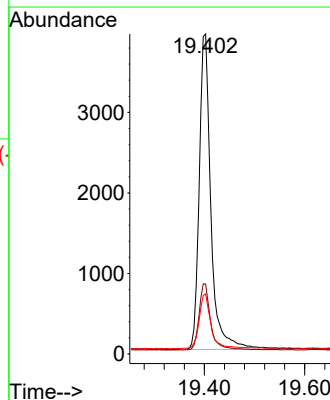
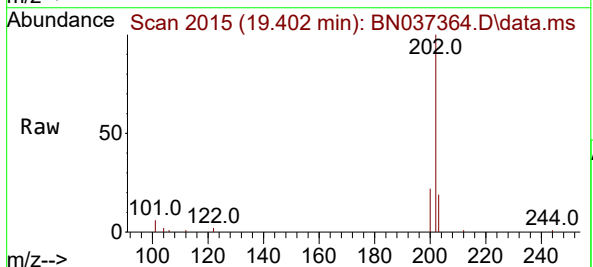
Tgt Ion:202 Resp: 6351

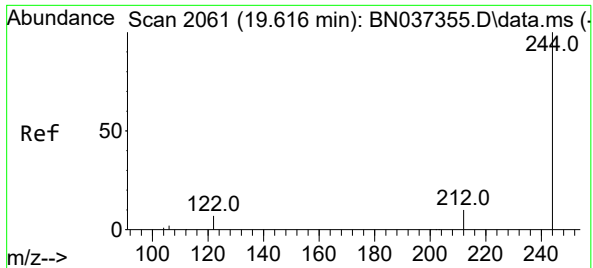
Ion Ratio Lower Upper

202 100

200 20.7 16.8 25.2

203 18.4 14.5 21.7

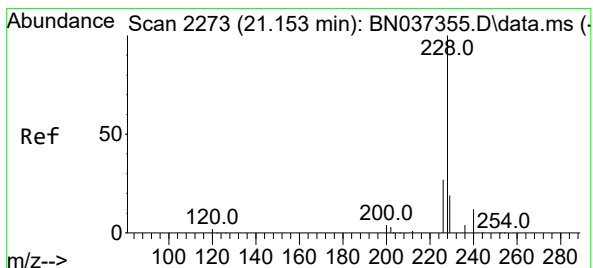
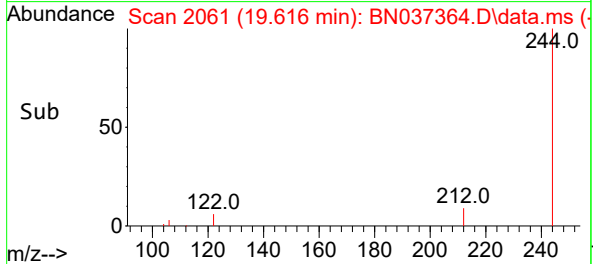
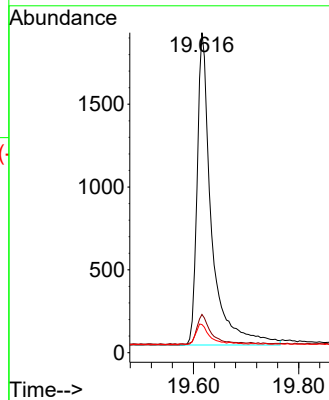
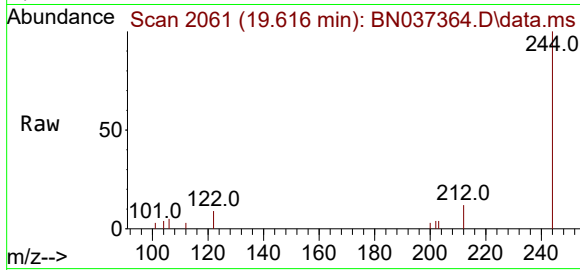




#31
Terphenyl-d14
Concen: 0.375 ng
RT: 19.616 min Scan# 2061
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

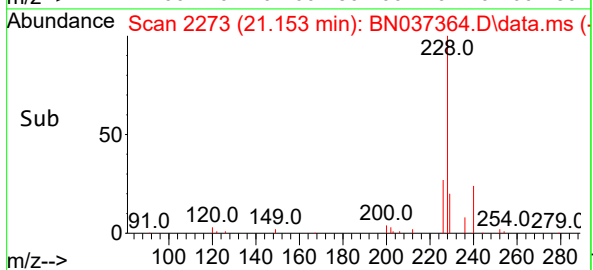
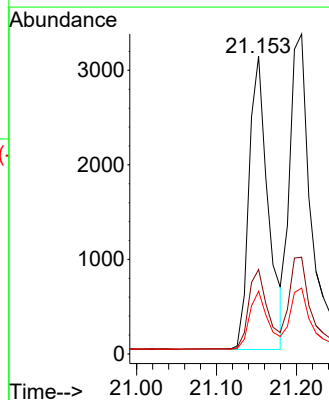
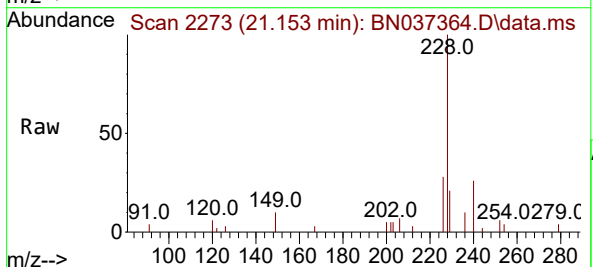
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

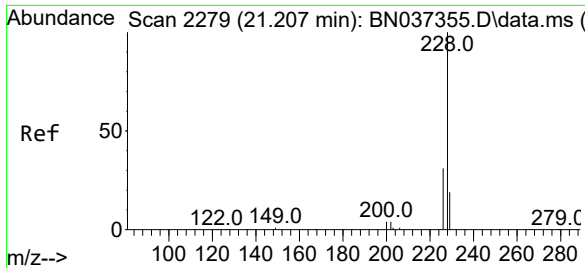
Tgt Ion	Ratio	Lower	Upper
244	100		
212	12.0	11.1	16.7
122	8.8	7.2	10.8



#32
Benzo(a)anthracene
Concen: 0.373 ng
RT: 21.153 min Scan# 2273
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion	Ratio	Lower	Upper
228	100		
226	28.4	23.0	34.4
229	21.1	17.4	26.0





#33

Chrysene

Concen: 0.387 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

Instrument :

BNA_N

ClientSampleId :

PB168563BSD

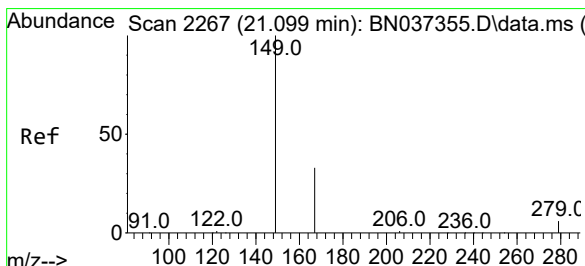
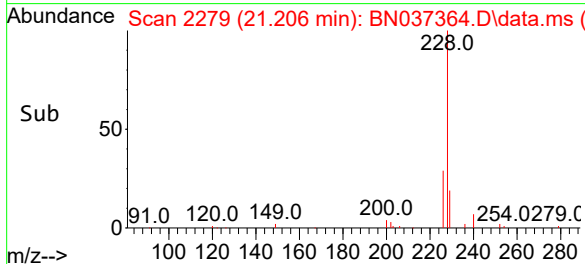
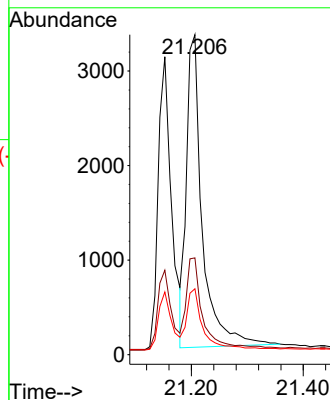
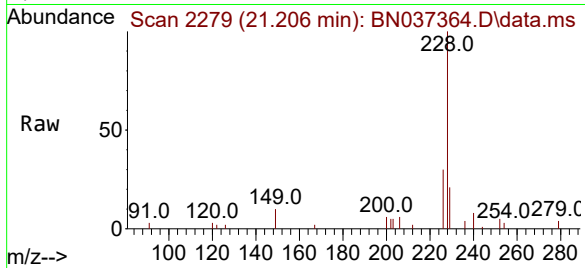
Tgt Ion:228 Resp: 6472

Ion Ratio Lower Upper

228 100

226 30.3 25.4 38.2

229 20.6 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.358 ng

RT: 21.090 min Scan# 2266

Delta R.T. -0.009 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

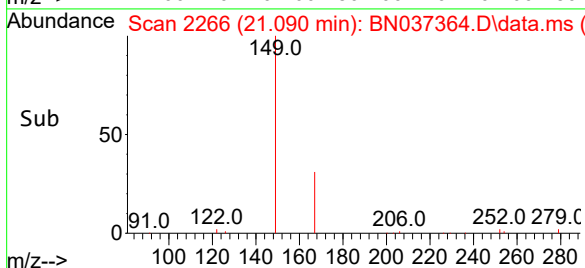
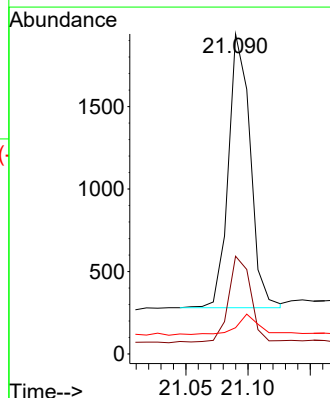
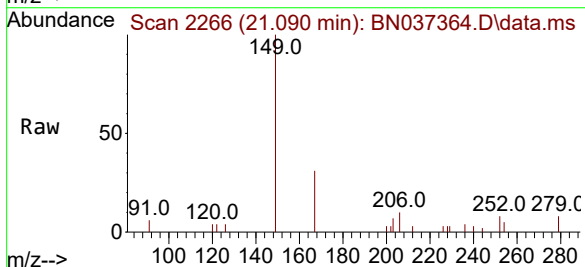
Tgt Ion:149 Resp: 2023

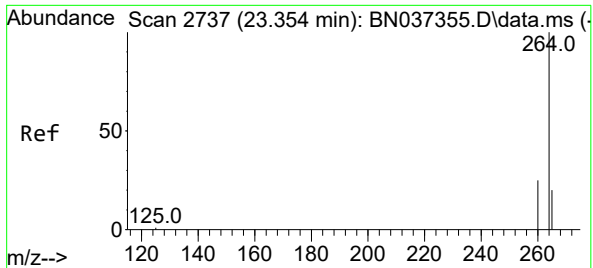
Ion Ratio Lower Upper

149 100

167 32.9 24.6 37.0

279 9.0 6.5 9.7

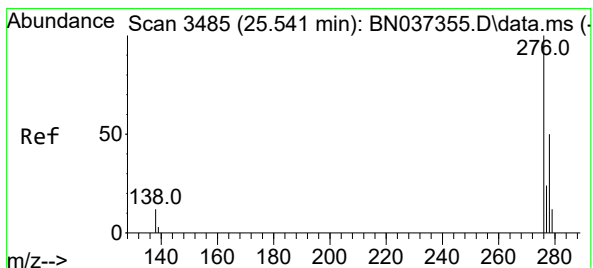
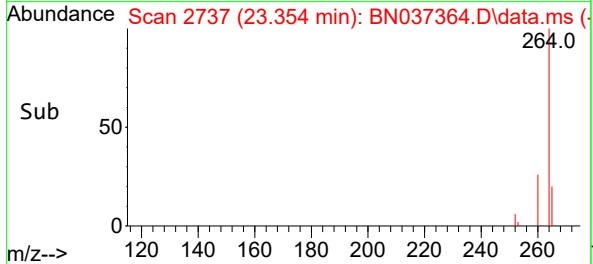
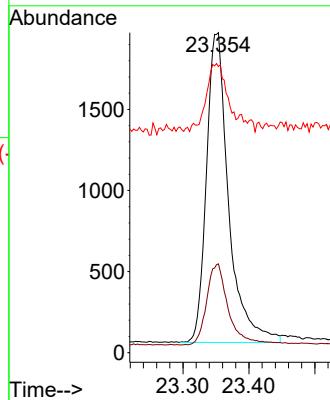
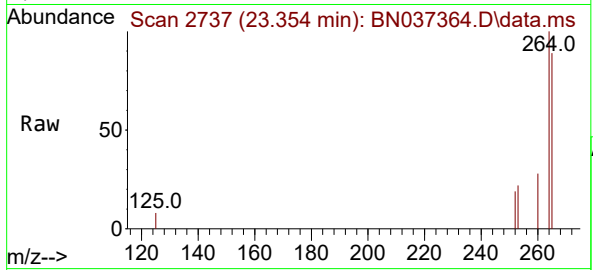




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.354 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

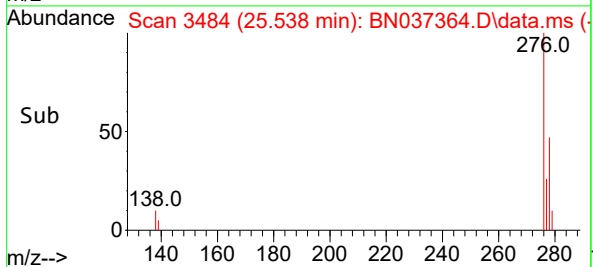
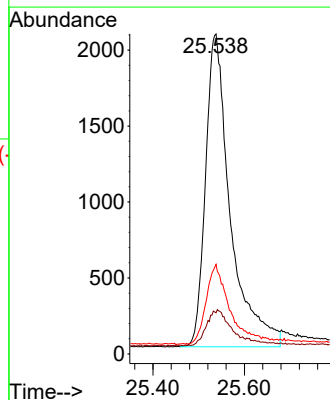
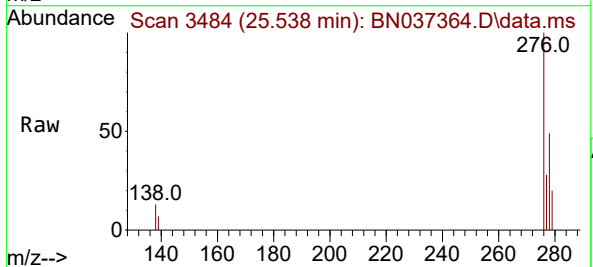
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

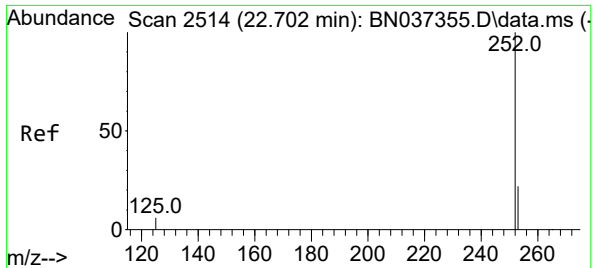
Tgt Ion:264 Resp: 4470
Ion Ratio Lower Upper
264 100
260 27.8 21.4 32.2
265 89.4 71.4 107.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.386 ng
RT: 25.538 min Scan# 3484
Delta R.T. -0.003 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:276 Resp: 7744
Ion Ratio Lower Upper
276 100
138 10.7 2.2 3.2#
277 24.0 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 0.355 ng

RT: 22.696 min Scan# 2512

Delta R.T. -0.006 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

Instrument :

BNA_N

ClientSampleId :

PB168563BSD

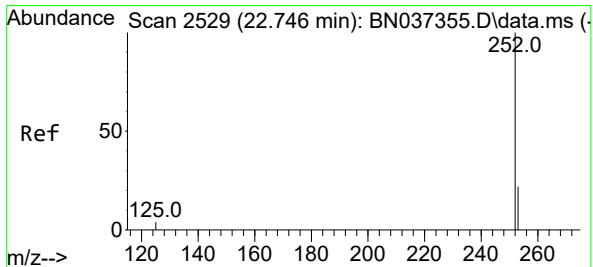
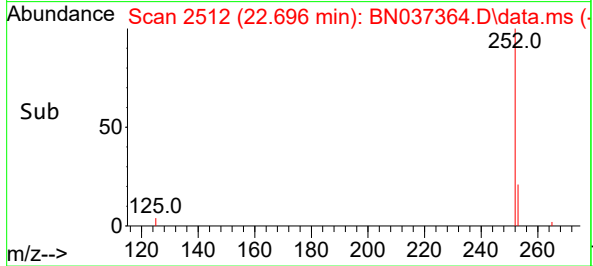
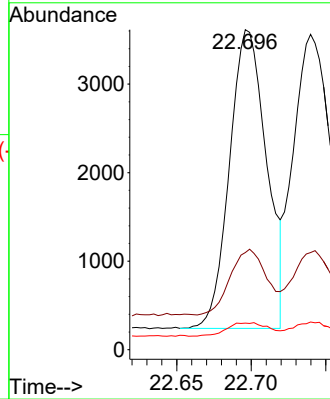
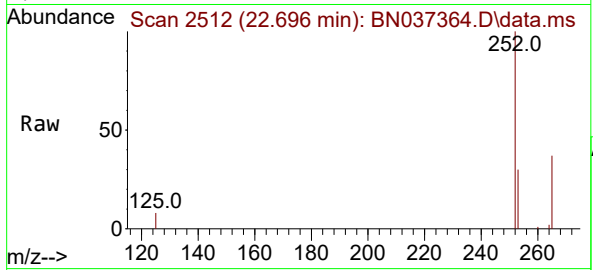
Tgt Ion:252 Resp: 5838

Ion Ratio Lower Upper

252 100

253 30.4 26.6 40.0

125 8.3 6.1 9.1



#38

Benzo(k)fluoranthene

Concen: 0.389 ng

RT: 22.740 min Scan# 2527

Delta R.T. -0.006 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

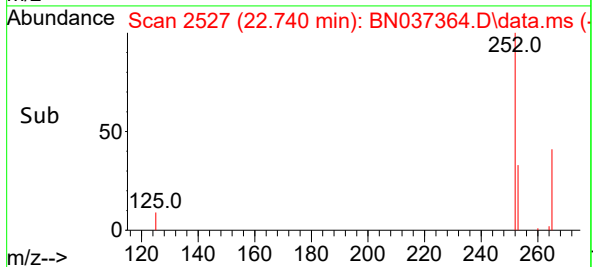
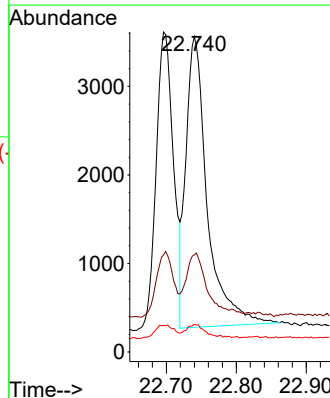
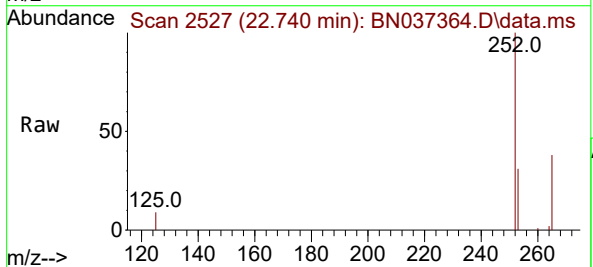
Tgt Ion:252 Resp: 6945

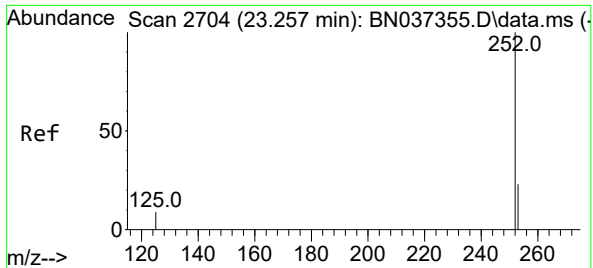
Ion Ratio Lower Upper

252 100

253 30.8 26.7 40.1

125 8.8 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.399 ng

RT: 23.254 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

Instrument :

BNA_N

ClientSampleId :

PB168563BSD

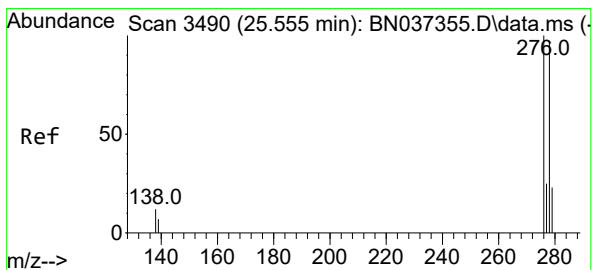
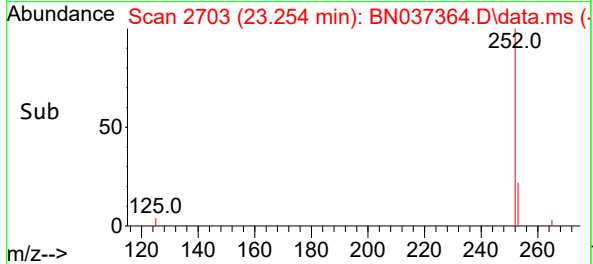
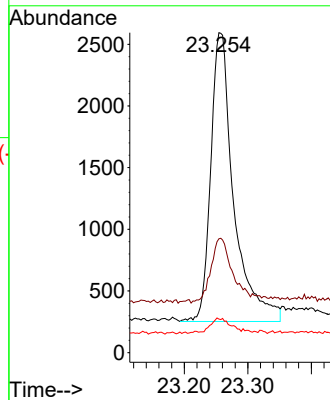
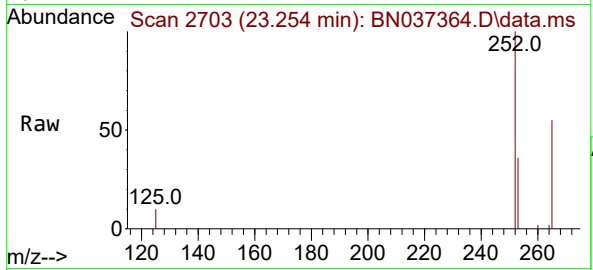
Tgt Ion:252 Resp: 5888

Ion Ratio Lower Upper

252 100

253 35.6 31.6 47.4

125 10.5 8.4 12.6



#40

Dibenzo(a,h)anthracene

Concen: 0.392 ng

RT: 25.552 min Scan# 3489

Delta R.T. -0.003 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

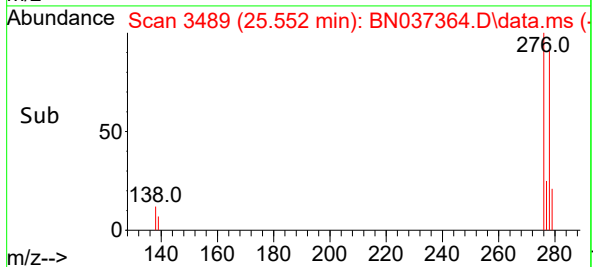
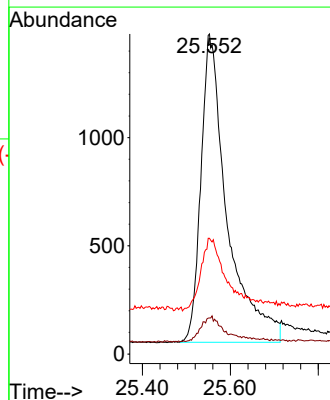
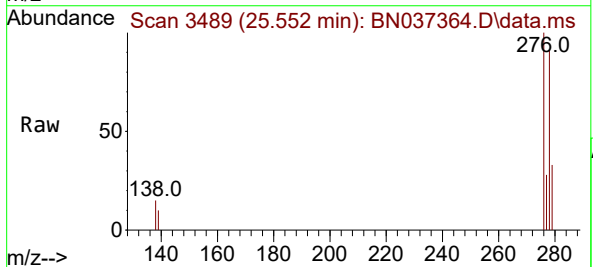
Tgt Ion:278 Resp: 5912

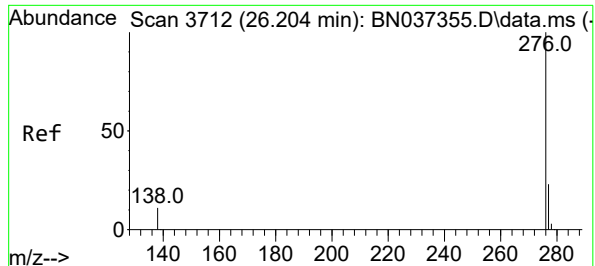
Ion Ratio Lower Upper

278 100

139 11.3 10.2 15.4

279 36.2 35.6 53.4





#41

Benzo(g,h,i)perylene

Concen: 0.393 ng

RT: 26.199 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037364.D

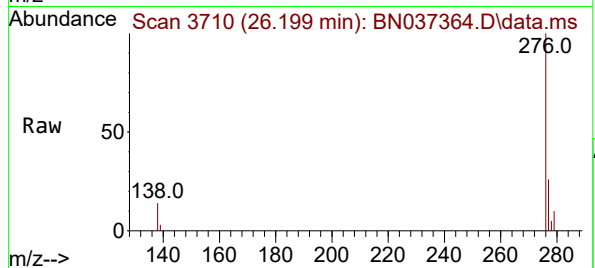
Acq: 21 Jun 2025 00:04

Instrument :

BNA_N

ClientSampleId :

PB168563BSD



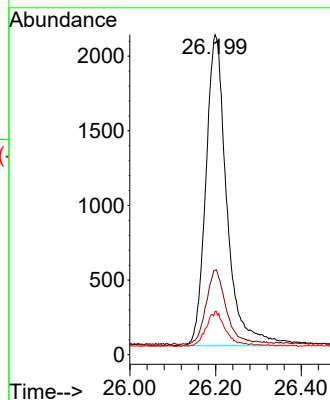
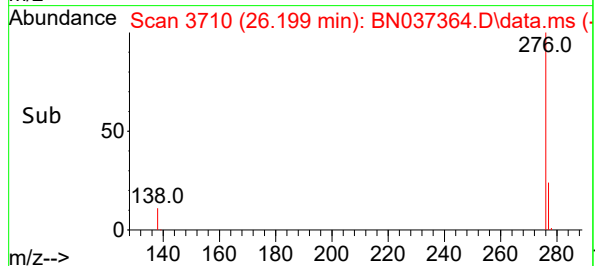
Tgt Ion:276 Resp: 7039

Ion Ratio Lower Upper

276 100

277 26.4 22.7 34.1

138 13.5 9.4 14.2



Manual Integration Report

Sequence:	BN062125	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICCC0.4	BN037355.D	Benzo(b)fluoranthene	Rahul	6/23/2025 4:45:50 PM	Jagrut	6/24/2025 3:19:09 PM	Peak Integrated by Software
SSTDICV0.4	BN037360.D	Benzo(b)fluoranthene	Rahul	6/23/2025 4:45:53 PM	Jagrut	6/24/2025 3:19:11 PM	Peak Integrated by Software
PB168563BSD	BN037364.D	2-Methylnaphthalene-d10	Rahul	6/23/2025 4:45:56 PM	Jagrut	6/24/2025 3:19:14 PM	Peak Integrated by Software
SSTDCCC0.4	BN037365.D	Benzo(b)fluoranthene	Rahul	6/23/2025 4:45:59 PM	Jagrut	6/24/2025 3:19:16 PM	Peak Integrated by Software

Manual Integration Report

Sequence:	BN062625	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN037386.D	Nitrobenzene-d5	Rahul	6/27/2025 12:01:52 PM	Jagrut	6/27/2025 12:02:28 PM	Peak Integrated by Software
Q2345-01	BN037395.D	Anthracene	Rahul	6/27/2025 12:01:55 PM	Jagrut	6/27/2025 12:02:30 PM	Peak Integrated by Software



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

Manual Integration Report

Sequence:	BN062725	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN062125

Review By	Rahul	Review On	6/24/2025 9:00:26 AM
Supervise By	Jagrut	Supervise On	6/24/2025 3:20:40 PM
SubDirectory	BN062125	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn062125
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	BN037351.D	20 Jun 2025 15:00	RC/JU	Ok
2	SSTDCCC0.4	BN037352.D	20 Jun 2025 16:15	RC/JU	Not Ok
3	SSTDICC0.1	BN037353.D	20 Jun 2025 16:51	RC/JU	Ok
4	SSTDICC0.2	BN037354.D	20 Jun 2025 17:27	RC/JU	Ok
5	SSTDICCC0.4	BN037355.D	20 Jun 2025 18:03	RC/JU	Ok,M
6	SSTDICC0.8	BN037356.D	20 Jun 2025 18:39	RC/JU	Ok
7	SSTDICC1.6	BN037357.D	20 Jun 2025 19:15	RC/JU	Ok
8	SSTDICC3.2	BN037358.D	20 Jun 2025 19:51	RC/JU	Ok
9	SSTDICC5.0	BN037359.D	20 Jun 2025 20:27	RC/JU	Ok
10	SSTDICV0.4	BN037360.D	20 Jun 2025 21:39	RC/JU	Ok,M
11	PB168563BL	BN037361.D	20 Jun 2025 22:16	RC/JU	Ok
12	Q2377-01	BN037362.D	20 Jun 2025 22:52	RC/JU	Ok
13	PB168563BS	BN037363.D	20 Jun 2025 23:28	RC/JU	Ok
14	PB168563BSD	BN037364.D	21 Jun 2025 00:04	RC/JU	Ok,M
15	SSTDCCC0.4	BN037365.D	21 Jun 2025 01:17	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN062625

Review By	Rahul	Review On	6/27/2025 12:02:17 PM
Supervise By	Jagrut	Supervise On	6/27/2025 12:02:52 PM
SubDirectory	BN062625	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn062625
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
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	BN037385.D	26 Jun 2025 10:01	RC/JU	Ok
2	SSTDICC0.1	BN037386.D	26 Jun 2025 10:41	RC/JU	Ok,M
3	SSTDICC0.2	BN037387.D	26 Jun 2025 11:17	RC/JU	Ok
4	SSTDICCC0.4	BN037388.D	26 Jun 2025 11:53	RC/JU	Ok
5	SSTDICC0.8	BN037389.D	26 Jun 2025 12:29	RC/JU	Ok
6	SSTDICC1.6	BN037390.D	26 Jun 2025 13:05	RC/JU	Ok
7	SSTDICC3.2	BN037391.D	26 Jun 2025 13:41	RC/JU	Ok
8	SSTDICC5.0	BN037392.D	26 Jun 2025 14:17	RC/JU	Ok
9	SSTDICV0.4	BN037393.D	26 Jun 2025 14:54	RC/JU	Ok
10	PB168563BL	BN037394.D	26 Jun 2025 15:30	RC/JU	Not Ok
11	Q2345-01	BN037395.D	26 Jun 2025 16:06	RC/JU	Ok,M
12	Q2345-13	BN037396.D	26 Jun 2025 16:42	RC/JU	Dilution
13	Q2345-14	BN037397.D	26 Jun 2025 17:18	RC/JU	Ok
14	Q2345-15	BN037398.D	26 Jun 2025 17:54	RC/JU	Ok
15	Q2345-16	BN037399.D	26 Jun 2025 18:30	RC/JU	Ok
16	Q2361-01	BN037400.D	26 Jun 2025 19:06	RC/JU	Ok
17	SSTDCCC0.4	BN037401.D	26 Jun 2025 19:42	RC/JU	Ok
18	DFTPP	BN037402.D	26 Jun 2025 20:19	RC/JU	Ok
19	SSTDCCC0.4	BN037403.D	26 Jun 2025 21:38	RC/JU	Ok
20	PB167430BL	BN037404.D	26 Jun 2025 22:14	RC/JU	Ok
21	Q2372-01	BN037405.D	26 Jun 2025 22:50	RC/JU	ReRun

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN062625

Review By	Rahul	Review On	6/27/2025 12:02:17 PM
Supervise By	Jagrut	Supervise On	6/27/2025 12:02:52 PM
SubDirectory	BN062625	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn062625
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q2373-01	BN037406.D	26 Jun 2025 23:27	RC/JU	Not Ok
23	Q2373-02	BN037407.D	27 Jun 2025 00:03	RC/JU	Ok
24	Q2373-03	BN037408.D	27 Jun 2025 00:40	RC/JU	Ok
25	Q2374-01	BN037409.D	27 Jun 2025 01:16	RC/JU	Ok
26	Q2374-02	BN037410.D	27 Jun 2025 01:52	RC/JU	Ok
27	Q2374-03	BN037411.D	27 Jun 2025 02:29	RC/JU	Ok
28	Q2374-04	BN037412.D	27 Jun 2025 03:05	RC/JU	Ok
29	Q2375-01	BN037413.D	27 Jun 2025 03:41	RC/JU	Ok
30	Q2375-02	BN037414.D	27 Jun 2025 04:18	RC/JU	Ok
31	SSTDCCC0.4	BN037415.D	27 Jun 2025 04:54	RC/JU	Ok

M : Manual Integration

Instrument ID: **BNA_N**

Daily Analysis Runlog For Sequence/QC Batch ID # BN062725

Review By	Rahul	Review On	6/30/2025 10:03:16 AM
Supervise By	Yogesh	Supervise On	6/30/2025 6:35:12 PM
SubDirectory	BN062725	HP Acquire Method	BNA_N, 8270_SiM HP Processing Method bn062625
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
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	BN037416.D	27 Jun 2025 09:30	RC/JU	Ok
2	SSTDCCC0.4	BN037417.D	27 Jun 2025 10:09	RC/JU	Ok
3	PB168563BL	BN037418.D	27 Jun 2025 10:45	RC/JU	Not Ok
4	Q2345-13DL	BN037419.D	27 Jun 2025 11:21	RC/JU	Ok
5	Q2373-01	BN037420.D	27 Jun 2025 11:57	RC/JU	Dilution
6	Q2373-01DL	BN037421.D	27 Jun 2025 12:34	RC/JU	Ok
7	Q2372-01RE	BN037422.D	27 Jun 2025 13:10	RC/JU	Confirms
8	SSTDCCC0.4	BN037423.D	27 Jun 2025 15:34	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN062125

Review By	Rahul	Review On	6/24/2025 9:00:26 AM
Supervise By	Jagrut	Supervise On	6/24/2025 3:20:40 PM
SubDirectory	BN062125	HP Acquire Method	BNA_N, 8270_HP Processing Method bn062125

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	BN037351.D	20 Jun 2025 15:00		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037352.D	20 Jun 2025 16:15	A Fresh Calibration is required.	RC/JU	Not Ok
3	SSTDICC0.1	SSTDICC0.1	BN037353.D	20 Jun 2025 16:51		RC/JU	Ok
4	SSTDICC0.2	SSTDICC0.2	BN037354.D	20 Jun 2025 17:27		RC/JU	Ok
5	SSTDICCC0.4	SSTDICCC0.4	BN037355.D	20 Jun 2025 18:03	Calibration is good for DOD and nondod	RC/JU	Ok,M
6	SSTDICC0.8	SSTDICC0.8	BN037356.D	20 Jun 2025 18:39		RC/JU	Ok
7	SSTDICC1.6	SSTDICC1.6	BN037357.D	20 Jun 2025 19:15		RC/JU	Ok
8	SSTDICC3.2	SSTDICC3.2	BN037358.D	20 Jun 2025 19:51		RC/JU	Ok
9	SSTDICC5.0	SSTDICC5.0	BN037359.D	20 Jun 2025 20:27		RC/JU	Ok
10	SSTDICV0.4	ICVBN062125	BN037360.D	20 Jun 2025 21:39		RC/JU	Ok,M
11	PB168563BL	PB168563BL	BN037361.D	20 Jun 2025 22:16		RC/JU	Ok
12	Q2377-01	PW-B6-L66-061925	BN037362.D	20 Jun 2025 22:52		RC/JU	Ok
13	PB168563BS	PB168563BS	BN037363.D	20 Jun 2025 23:28		RC/JU	Ok
14	PB168563BSD	PB168563BSD	BN037364.D	21 Jun 2025 00:04		RC/JU	Ok,M
15	SSTDCCC0.4	SSTDCCC0.4EC	BN037365.D	21 Jun 2025 01:17		RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN062625

Review By	Rahul	Review On	6/27/2025 12:02:17 PM
Supervise By	Jagrut	Supervise On	6/27/2025 12:02:52 PM
SubDirectory	BN062625	HP Acquire Method	BNA_N, 8270_HP Processing Method bn062625

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
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	BN037385.D	26 Jun 2025 10:01		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN037386.D	26 Jun 2025 10:41		RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN037387.D	26 Jun 2025 11:17		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN037388.D	26 Jun 2025 11:53		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN037389.D	26 Jun 2025 12:29		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN037390.D	26 Jun 2025 13:05		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN037391.D	26 Jun 2025 13:41		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN037392.D	26 Jun 2025 14:17		RC/JU	Ok
9	SSTDICV0.4	ICVBN062625	BN037393.D	26 Jun 2025 14:54		RC/JU	Ok
10	PB168563BL	PB168563BL	BN037394.D	26 Jun 2025 15:30	Not Used	RC/JU	Not Ok
11	Q2345-01	EB02-20250616	BN037395.D	26 Jun 2025 16:06		RC/JU	Ok,M
12	Q2345-13	TT189D2-20250617	BN037396.D	26 Jun 2025 16:42	Need 2X dilutiion	RC/JU	Dilution
13	Q2345-14	TT150S1-20250617	BN037397.D	26 Jun 2025 17:18		RC/JU	Ok
14	Q2345-15	RW8-MW01D1-20250617	BN037398.D	26 Jun 2025 17:54		RC/JU	Ok
15	Q2345-16	TT192D2-20250617	BN037399.D	26 Jun 2025 18:30		RC/JU	Ok
16	Q2361-01	TT205S1-20250617	BN037400.D	26 Jun 2025 19:06		RC/JU	Ok
17	SSTDCCC0.4	SSTDCCC0.4EC	BN037401.D	26 Jun 2025 19:42		RC/JU	Ok
18	DFTPP	DFTPP	BN037402.D	26 Jun 2025 20:19		RC/JU	Ok

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN062625

Review By	Rahul	Review On	6/27/2025 12:02:17 PM
Supervise By	Jagrut	Supervise On	6/27/2025 12:02:52 PM
SubDirectory	BN062625	HP Acquire Method	BNA_N, 8270_HP Processing Method bn062625
STD. NAME	STD REF.#		
Tune/Reschk	SP6757		
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848		
CCC	SP6846		
Internal Standard/PEM	SP6740,1ul/100ul sample		
ICV/I.BLK	SP6768		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

19	SSTDCCC0.4	SSTDCCC0.4	BN037403.D	26 Jun 2025 21:38		RC/JU	Ok
20	PB167430BL	PB167430BL	BN037404.D	26 Jun 2025 22:14	Analyzed for contamination check	RC/JU	Ok
21	Q2372-01	GAV1W	BN037405.D	26 Jun 2025 22:50	Internal standard fail	RC/JU	ReRun
22	Q2373-01	RW5-SP100-20250619	BN037406.D	26 Jun 2025 23:27	Internal standard fail & Need 2X Dilution	RC/JU	Not Ok
23	Q2373-02	RW5-SP201-20250619	BN037407.D	27 Jun 2025 00:03		RC/JU	Ok
24	Q2373-03	RW5-SP303-20250619	BN037408.D	27 Jun 2025 00:40		RC/JU	Ok
25	Q2374-01	RW7-SP100-20250619	BN037409.D	27 Jun 2025 01:16		RC/JU	Ok
26	Q2374-02	RW7-SP201-20250619	BN037410.D	27 Jun 2025 01:52		RC/JU	Ok
27	Q2374-03	RW7-SP302-20250619	BN037411.D	27 Jun 2025 02:29		RC/JU	Ok
28	Q2374-04	RW7-SP303-20250619	BN037412.D	27 Jun 2025 03:05		RC/JU	Ok
29	Q2375-01	RW8-SP100-20250619	BN037413.D	27 Jun 2025 03:41		RC/JU	Ok
30	Q2375-02	RW8-SP303-20250619	BN037414.D	27 Jun 2025 04:18		RC/JU	Ok
31	SSTDCCC0.4	SSTDCCC0.4EC	BN037415.D	27 Jun 2025 04:54		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QC Batch ID # BN062725

Review By	Rahul	Review On	6/30/2025 10:03:16 AM
Supervise By	Yogesh	Supervise On	6/30/2025 6:35:12 PM
SubDirectory	BN062725	HP Acquire Method	BNA_N, 8270_HP Processing Method bn062625

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848
CCC	SP6846
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	BN037416.D	27 Jun 2025 09:30		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN037417.D	27 Jun 2025 10:09		RC/JU	Ok
3	PB168563BL	PB168563BL	BN037418.D	27 Jun 2025 10:45	Analyzed for contamination check	RC/JU	Not Ok
4	Q2345-13DL	TT189D2-20250617DL	BN037419.D	27 Jun 2025 11:21		RC/JU	Ok
5	Q2373-01	RW5-SP100-20250619	BN037420.D	27 Jun 2025 11:57	Need 2X dilutiion	RC/JU	Dilution
6	Q2373-01DL	RW5-SP100-20250619	BN037421.D	27 Jun 2025 12:34		RC/JU	Ok
7	Q2372-01RE	GAV1WRE	BN037422.D	27 Jun 2025 13:10	Internal Standard Fail	RC/JU	Confirms
8	SSTDCCC0.4	SSTDCCC0.4EC	BN037423.D	27 Jun 2025 15:34		RC/JU	Ok

M : Manual Integration

SOP ID:	M3510C,3580A-Extraction SVOC-21		
Clean Up SOP #:	N/A	Extraction Start Date :	06/20/2025
Matrix :	Water	Extraction Start Time :	09:32
Weigh By:	N/A	Extraction By:	RS
Balance check:	N/A	Filter By:	RJ
Balance ID:	N/A	pH Meter ID:	N/A
pH Strip Lot#:	E3880	Hood ID:	4,5,6,7
Extraction Method:	☒ Separatory Funnel	☐ Continuous Liquid/Liquid	☐ Sonication
		☐ Waste Dilution	☐ Soxhlet
		Concentration By:	EH
		Supervisor By :	RUPESH

Standardized Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6756
Surrogate	1.0ML	0.4 PPM	SP6831
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3943
Baked Na2SO4	N/A	EP2622
10N NaoH	N/A	EP2609
H2SO4 1:1	N/A	EP2610
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210443. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH. Q2373,Q2374,Q2375 & Q2377 all samples added at 12:03 P.M.

KD Bath ID:	WATER BATH-1,2	Envap ID:	NEVAP-02
KD Bath Temperature:	60 °C	Envap Temperature:	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
6/20/25	RS (E4 Lab)	R/SVOC
16:35	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-21

Concentration Date: 06/20/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168563BL	SBLK563	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1			SEP-1
PB168563BS	SLCS563	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1			2
PB168563BS D	SLCSD563	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1			3
Q2345-01	EB02-20250616	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1	C		4
Q2345-13	TT189D2-2050617	SVOC-SIMGrou p1	990	6	RUPESEH	ritesh	1	C		5
Q2345-14	TT150S1-2050617	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1	C		6
Q2345-15	RW8-MW01D1-20250617	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1	C		7
Q2345-16	TT192D2-2050617	SVOC-SIMGrou p1	990	6	RUPESEH	ritesh	1	C		8
Q2361-01	TT205S1-20250617	SVOC-SIMGrou p1	990	6	RUPESEH	ritesh	1	C		9
Q2372-01	GAV1W	SVOC-SIMGrou p1	970	6	RUPESEH	ritesh	1	E		10
Q2373-01	RW5-SP100-20250619	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1			11
Q2373-02	RW5-SP201-20250619	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1			12
Q2373-03	RW5-SP303-20250619	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1			13
Q2374-01	RW7-SP100-20250619	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1			14
Q2374-02	RW7-SP201-20250619	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1			15
Q2374-03	RW7-SP302-20250619	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1			16
Q2374-04	RW7-SP303-20250619	SVOC-SIMGrou p1	1000	6	RUPESEH	ritesh	1			SEP-1
Q2375-01	RW8-SP100-20250619	SVOC-SIMGrou p1	990	6	RUPESEH	ritesh	1	D		2
Q2375-02	RW8-SP303-20250619	SVOC-SIMGrou p1	990	6	RUPESEH	ritesh	1	D		3
Q2377-01	PW-B6-L66-061925	SVOC-SIMGrou p1	980	6	RUPESEH	ritesh	1	D		4



* Extracts relinquished on the same date as received.

Q2345-SVOC-SIMGroup1

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2361 WorkList ID : 190289 Department : Extraction Date : 06-20-2025 09:26:55

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2345-01	EB02-20250616	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D61	06/16/2025	8270-Modified
Q2345-13	TT189D2-2050617	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D61	06/17/2025	8270-Modified
Q2345-14	TT150S1-2050617	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D61	06/17/2025	8270-Modified
Q2345-15	RW8-MW01D1-20250617	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D61	06/17/2025	8270-Modified
Q2345-16	TT192D2-2050617	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D61	06/17/2025	8270-Modified
Q2361-01	TT205S1-20250617	Water	SVOC-SIMGroup1	Cool 4 deg C	AECO15	D51	06/17/2025	8270-Modified
Q2372-01	GAV1W	Water	SVOC-SIMGroup1	Cool 4 deg C	GENV01	D51	06/19/2025	8270-Modified

Date/Time 6/20/25 9:27
Raw Sample Received by: RS (Ext-1961)
Raw Sample Relinquished by: [Signature]

Date/Time 6/20/25 10:10
Raw Sample Received by: [Signature]
Raw Sample Relinquished by: RS (Ext-1961)

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Q2345-SVOC-SIMGroup1

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2373

WorkList ID : 190300

Department : Extraction

Date : 06-20-2025 12:02:27

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2373-01	RW5-SP100-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2373-02	RW5-SP201-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2373-03	RW5-SP303-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2374-01	RW7-SP100-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2374-02	RW7-SP201-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2374-03	RW7-SP302-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2374-04	RW7-SP303-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2375-01	RW8-SP100-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2375-02	RW8-SP303-20250619	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	D51	06/19/2025	8270-Modified
Q2377-01	PW-B6-L66-061925	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	D51	06/19/2025	8270-Modified

Date/Time 6/20/25 12:03

Raw Sample Received by: RS (Ext-66)

Raw Sample Relinquished by: [Signature]

Date/Time 6/20/25 12:35

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: RS (Ext-66)

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Prep Standard - Chemical Standard Summary

Order ID : Q2345
Test : SVOC-SIMGroup1
Prepbatch ID : PB168563,
Sequence ID/Qc Batch ID: BN062125,BN062625,BN062725,

Standard ID :
EP2609,EP2610,EP2622,SP6740,SP6756,SP6757,SP6767,SP6768,SP6774,SP6775,SP6776,SP6777,SP6778,SP6779,SP6780,SP6781,SP6830,SP6831,SP6841,SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848,SP6849,

Chemical ID :
1ul/100ul
sample,E3551,E3657,E3874,E3902,E3904,E3926,E3940,E3942,E3943,M6157,S10104,S10105,S 11496,S11650,S11788,S11828,S11832,S12115,S12195,S12216,S12271,S12273,S12486,S12533,S12577,S12651,S12670,S12792,S12974,S13058,W3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1874	10 N SODIUM HYDROXIDE SOLN	EP2609	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel

(EX-SC-2)

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2610	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SC ALE_2	None	Riteshkumar Patel

(EX-SC-2)

FROM 1000.00000ml of M6157 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2622	06/13/2025	12/04/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 06/16/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3493	Internal Standard 0.4 PPM	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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3492	8270-SIM-Spike 0.4 PPM	SP6756	03/24/2025	07/29/2025	Rahul Chavli	None	None	mohammad ahmed
04/07/2025								

FROM 0.00160ml of S11650 + 0.02000ml of S11788 + 0.04000ml of S12486 + 0.04000ml of S12533 + 0.04000ml of S12974 + 99.85840ml of E3902 = Final Quantity: 100.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTPP 8270E	SP6757	03/31/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay
04/01/2025								

FROM 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND	SP6767	04/10/2025	07/24/2025	Jagrut Upadhyay	None	None	Sohil Jodhani
SOURCE FROM 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 FROM 0.87500ml of E3926 + 0.01000ml of SP6740 + 0.12500ml of SP6767 = 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>
3339	8270 sim calibration stock 10ppm (CPI)	SP6774	04/28/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								05/16/2025

FROM 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

<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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	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

<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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	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

<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

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	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

FROM 0.75000ml of E3926 + 0.01000ml of SP6740 + 0.25000ml of SP6779 = 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>
3493	Internal Standard 0.4 PPM	SP6830	06/17/2025	12/13/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/19/2025

FROM 0.10000ml of S12670 + 4.90000ml of E3942 = Final Quantity: 5.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3491	8270-SIM-Surrogate 0.4 PPM	SP6831	06/18/2025	09/18/2025	Rahul Chavli	None	None	Jagrut Upadhyay
								06/18/2025

FROM 0.00800ml of S12195 + 0.01600ml of S12216 + 0.04000ml of S11828 + 199.93600ml of E3940 = Final Quantity: 200.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3339	8270 sim calibration stock 10ppm (CPI)	SP6841	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.03350ml of S10105 + 0.05000ml of S11496 + 0.12500ml of S11828 + 0.12500ml of S12115 + 0.25000ml of S12273 + 0.25000ml of S13058 + 24.16650ml of E3943 = Final Quantity: 25.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6842	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6841 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6843	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.68000ml of E3943 + 0.01000ml of SP6830 + 0.32000ml of SP6841 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6844	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.84000ml of E3943 + 0.01000ml of SP6830 + 0.16000ml of SP6841 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6845	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.92000ml of E3943 + 0.01000ml of SP6830 + 0.08000ml of SP6841 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6846	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.96000ml of E3943 + 0.01000ml of SP6830 + 0.04000ml of SP6841 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6847	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6846 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6848	06/25/2025	10/28/2025	Jagrut Upadhyay	None	None	Rahul Chavli
								06/25/2025

FROM 0.75000ml of E3943 + 0.01000ml of SP6830 + 0.25000ml of SP6846 = Final Quantity: 1.010 ml

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	12/04/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/18/2025	03/18/2025 / RUPESH	02/12/2025 / RUPESH	E3902

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	01/07/2026	03/13/2025 / RUPESH	12/27/2024 / RUPESH	E3904

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	12/11/2025	06/11/2025 / Rajesh	06/04/2025 / Rajesh	E3940

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3942

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A2862010	12/13/2025	06/13/2025 / Rajesh	02/28/2025 / Rajesh	E3943

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	24i1262013	11/07/2025	05/07/2025 / RUPESH	02/18/2025 / Mohan	M6157

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	12/19/2025	06/19/2025 / Jagrut	12/09/2021 / Christian	S10105

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	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	12/09/2025	06/09/2025 / Jagrut	11/21/2023 / rahul	S11828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0201976	07/24/2025	01/24/2025 / anahy	11/21/2023 / rahul	S11832

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	10/28/2025	04/28/2025 / Jagrut	03/08/2024 / Rahul	S12115

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml, CH ₂ Cl ₂ , 5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	10/28/2025	04/28/2025 / Jagrut	05/24/2024 / Rahul	S12271

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	12/25/2025	06/25/2025 / Jagrut	05/24/2024 / Rahul	S12273

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request]	A0214021	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12486

[CS 4978-1]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request]	A0214017	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12533

[CS 4978-2]

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH ₂ Cl ₂ , 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0212266	08/07/2025	02/07/2025 / anahy	09/20/2024 / anahy	S12651

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH ₂ Cl ₂ , 1mL	A0212266	12/16/2025	06/16/2025 / anahy	09/20/2024 / anahy	S12670

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	06/21/2025	04/28/2025 / Jagrut	05/24/2024 / Rahul	S12792

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12974

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	531243	12/25/2025	06/25/2025 / Jagrut	01/16/2025 / anahy	S13058

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112

- 1
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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.: Z-112090 **Lot No.:** 440246 **Storage:** $\leq -10^{\circ}\text{C}$ **Solvent:** Methylene Chloride **Exp. Date:** 2/16/2026 **Description:** CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: _____

Erica Castiglione
Chemist



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.: Z-112090-04 **Lot No.:** 440246 **Storage:** $\leq -10^{\circ}\text{C}$ **Solvent:** Methylene Chloride **Exp. Date:** 2/16/2026 **Description:** CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: Erica Castiglione
Erica Castiglione
Chemist



**PRODUCTOS
QUÍMICOS
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %
COMMENTS		
QC: PhC Irma Belmares		

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3



Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

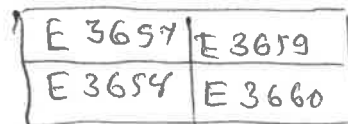
This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.



Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

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	$\leq 1.0 \text{ ppm}$	0.8 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	$\leq 10 \text{ ppm}$	$< 5 \text{ ppm}$
Water (by KF, coulometric)	$\leq 0.02 \%$	$< 0.01 \%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3902

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087 U.S.A. Phone 610.386.1700

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 ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
Color (APHA)	<= 10	10
Residue after Evaporation	<= 1.0 ppm	0.8 ppm
Titration Acid (µeq/g)	<= 0.3	<0.1
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 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

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Rec'd by RP on 6/11/25

E3940

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

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 25A2862010
Manufactured Date: 2024-12-18
Expiration Date: 2026-03-19
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 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

E3942

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™



Material No.: 9266-A4

Batch No.: 25A2862010

Manufactured Date: 2024-12-18

Expiration Date: 2026-03-19

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 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

E3942

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™



MG157
MS

Material No.: 9673-33

Batch No.: 24I1262013

Manufactured Date: 2024-08-07

Retest Date: 2029-08-06

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H ₂ SO ₄)	95.0 – 98.0 %	96.2 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	<= 10	5
ACS – Residue after Ignition	<= 3 ppm	<1 ppm
ACS – Substances Reducing Permanganate(as SO ₂)	<= 2 ppm	<2 ppm
Ammonium (NH ₄)	<= 1 ppm	<1 ppm
Chloride (Cl)	<= 0.1 ppm	<0.1 ppm
Nitrate (NO ₃)	<= 0.2 ppm	0.1 ppm
Phosphate (PO ₄)	<= 0.5 ppm	<0.1 ppm
Trace Impurities – Aluminum (Al)	<= 30.0 ppb	<5.0 ppb
Arsenic & Antimony (as As)	<= 4.0 ppb	<2.0 ppb
Trace Impurities – Boron (B)	<= 10.0 ppb	<5.0 ppb
Trace Impurities – Cadmium (Cd)	<= 2.0 ppb	<1.0 ppb
Trace Impurities – Chromium (Cr)	<= 6.0 ppb	<1.0 ppb
Trace Impurities – Cobalt (Co)	<= 0.5 ppb	<0.3 ppb
Trace Impurities – Copper (Cu)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Gold (Au)	<= 10.0 ppb	<5.0 ppb
Heavy Metals (as Pb)	<= 500.0 ppb	<100.0 ppb
Trace Impurities – Iron (Fe)	<= 50.0 ppb	<1.0 ppb
Trace Impurities – Lead (Pb)	<= 0.5 ppb	<0.5 ppb
Trace Impurities – Magnesium (Mg)	<= 7.0 ppb	<1.0 ppb
Trace Impurities – Manganese (Mn)	<= 1.0 ppb	<1.0 ppb
Trace Impurities – Mercury (Hg)	<= 0.5 ppb	<0.1 ppb
Trace Impurities – Nickel (Ni)	<= 2.0 ppb	<0.3 ppb
Trace Impurities – Potassium (K)	<= 500.0 ppb	<10.0 ppb
Trace Impurities – Selenium (Se)	<= 50.0 ppb	7.2 ppb
Trace Impurities – Silicon (Si)	<= 100.0 ppb	12.8 ppb
Trace Impurities – Silver (Ag)	<= 1.0 ppb	<1.0 ppb

Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

 **avantors**™



Material No.: 9673-33

Batch No.: 24I1262013

Test	Specification	Result
Trace Impurities – Sodium (Na)	≤ 500.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 5.0 ppb	< 1.0 ppb
Trace Impurities – Tin (Sn)	≤ 5.0 ppb	1.1 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 1.0 ppb

For Laboratory, Research, or Manufacturing Use

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak

Director Quality Operations, Bioscience Production



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Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓
511498 } 08/11/2023

*Not a certified value

Certified By: Shane C. Tipton
Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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gravimetric



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0201728

Description : Custom Pentachlorophenol Standard
Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

511649
↓
511658 } Y.P.
11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023

Balance: B251644995

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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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:

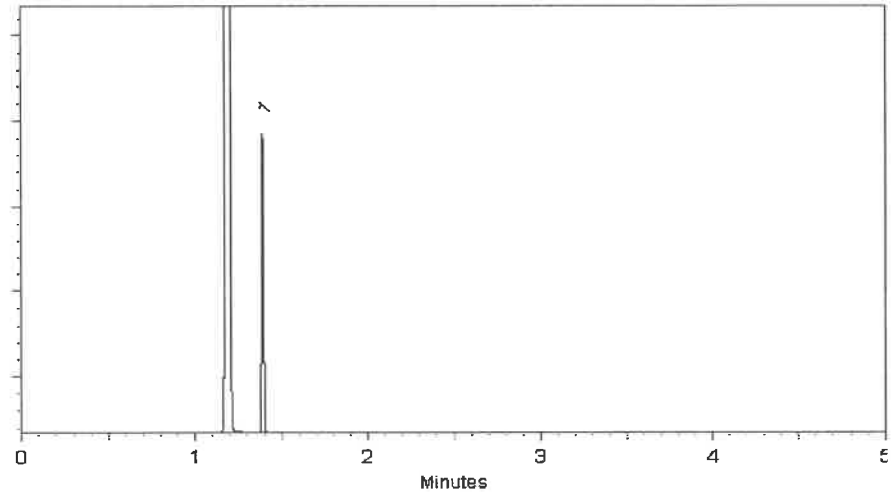
FID

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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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 33913 **Lot No.:** A0201976
Description : SOM01.0 SIM Analysis Standard
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : August 31, 2029 **Storage:** 10°C or colder
Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828
↓
S11832 } RC/
11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Methylnaphthalene-d10	7297-45-2	EF-135	98%	2,015.9 µg/mL	+/- 90.8098
2	Fluoranthene-d10	93951-69-0	PR-32557	99%	2,020.0 µg/mL	+/- 90.9963

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

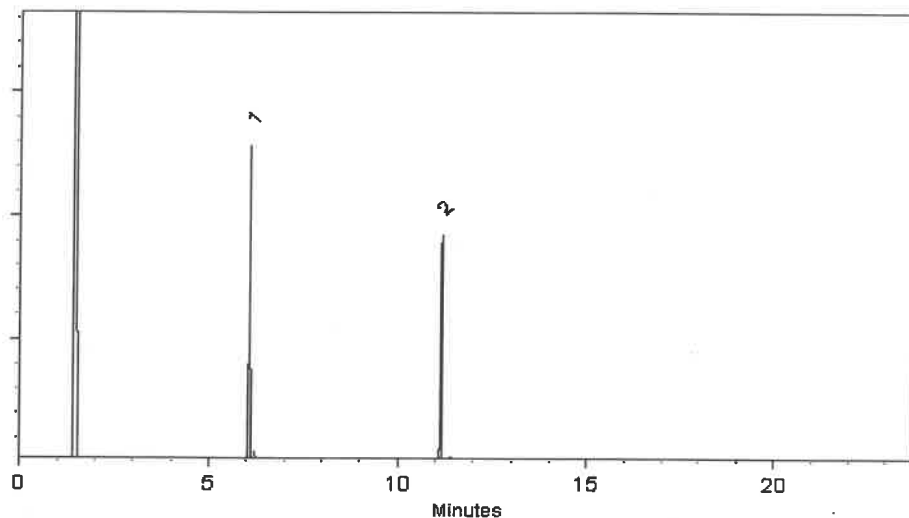
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl

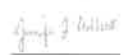


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : January 31, 2032 **Storage:** 10°C or colder
Ship: Ambient

512187 } RC/
↓
512206 } 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

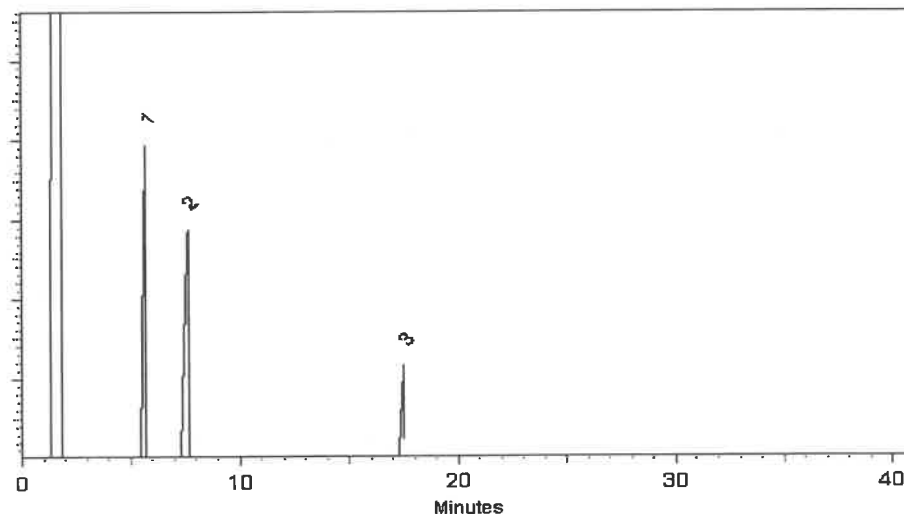
FID

Split Vent:

2 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope A. Riglin

Penelope Riglin - Operations Tech I

Christie Mills

Christie Mills - Operations Lead Tech - ARM QC

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015
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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:

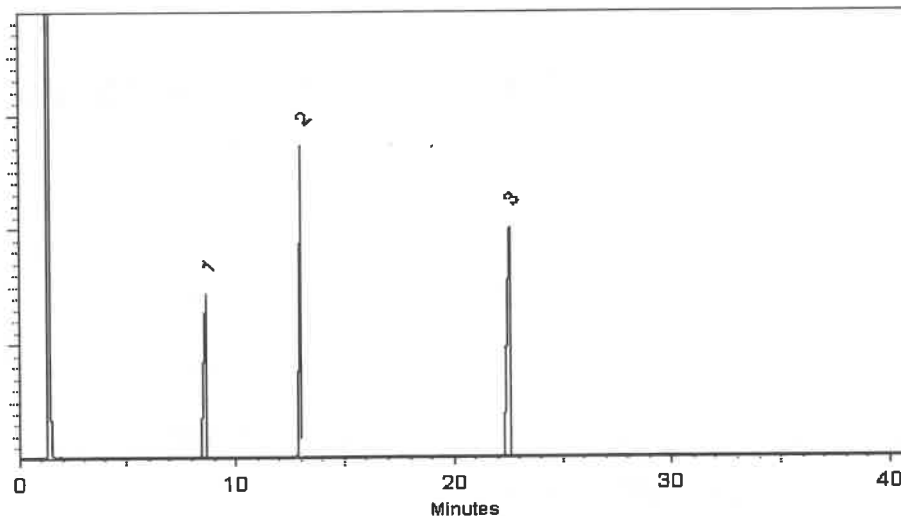
FID

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

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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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
listed are determined gravimetrically.

Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value

Kerry E Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



5580 Skylane Blvd
Santa Rosa, CA 95403

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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 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*Not a certified value

512270 } RC/
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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.
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Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

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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
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

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Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value



Certified By:

Kerry Kane
Chemist

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Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



110 Benner Circle
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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. : 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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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. : 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.



110 Benner Circle
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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. : 31615 **Lot No.:** A0212955
Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : June 30, 2027 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12577 } RC
↓
S12579 } 8/2/24

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

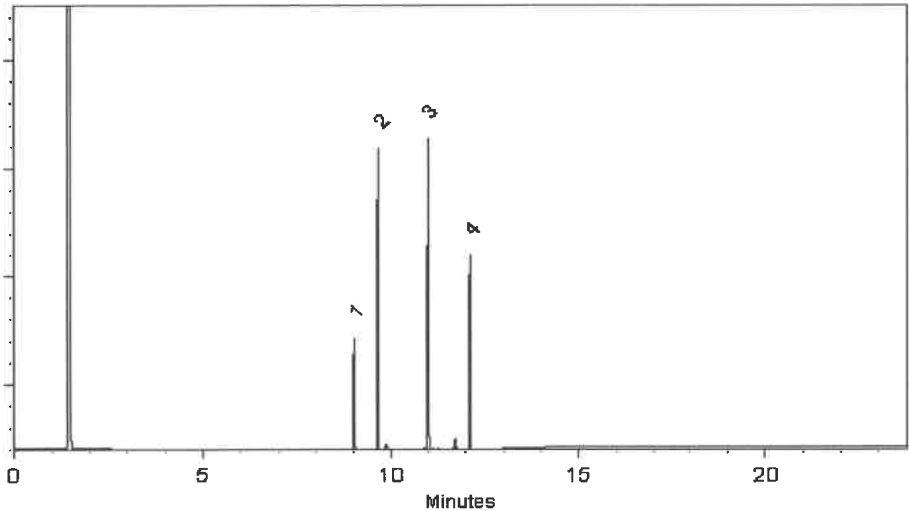
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

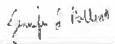
Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024 Balance Serial # 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645
↓
S12674
AC
10/1/24



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

~~512280~~ } RCL
↓
~~512284~~ } 05/24/24

New Numbers Generated.

512790 } RCL
↓
512794 } 11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/20

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



5580 Skyline Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	531243	≤ -10 °C	Methylene Chloride	1/2/2030	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.4P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	993.8 ± 5.78
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

513057 } AC
↓
513061 } 1/16/25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



SHIPPING DOCUMENTS

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CLIENT INFORMATION

CLIENT PROJECT INFORMATION

CLIENT BILLING INFORMATION

REPORT TO BE SENT TO:

COMPANY: Resolution Consultants

ADDRESS:

CITY: STATE: ZIP:

ATTENTION: Eleanor Vivadon

PHONE: FAX:

PROJECT NAME: NWIRP BETHPAGE

PROJECT NO.: 60731872 LOCATION: Bethpage

PROJECT MANAGER: Eleanor Vivadon

e-mail: Eleanor.Vivadon@rcm.com

PHONE: FAX:

BILL TO: Eleanor V.

PO#:

ADDRESS: 27 Ellis place

CITY: OSSINING STATE: NY ZIP: 10562

ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

DATA DELIVERABLE INFORMATION

FAX (RUSH) DAYS*

HARDCOPY (DATA PACKAGE): Standard DAYS*

EDD: Standard DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)

☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP

☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B

+ Raw Data) ☐ Other

☐ EDD FORMAT

1005 8260
1,4 dioxin 8270 SIM
1,4 dioxin 522

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES	PRESERVATIVES									COMMENTS
			COMP	GRAB	DATE	TIME		A	F	F							
1.	EB02-20250616	Ag		X	06/16	0800	3	2	1								equipment blank
2.	TB03-20250616	Ag		X		1215	2	2									trip blank
3.	BPOW6-1-20250616	GW		X		0930	4	2		2							
4.	BPOW6-2-20250616	GW		X		0930	4	2		2							
5.	DUPOS-20250616	GW		X		1025	4	2		2							duplicate
6.	BPOW6-3-20250616	GW		X		1045	4	2		2							
7.	BPOW6-5-20250616	GW		X		1000	12	6	2	2							ms/mud
8.	BPOW6-6-20250616	GW		X		1010	4	2		2							
9.	BPOW6-10-20250616	GW		X		1205	4	2		2							
10.	BPOW6-9-20250616	GW		X		1215	4	2		2							

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: 1200	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP
1. Mono Achrom	6-17-25	6-17-25	20 °C
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	Comments:
2.			
RELINQUISHED BY SAMPLER:	DATE/TIME: 1608	RECEIVED BY:	
3.	6-17-25	3.	

Page 1 of 2

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete

☐ YES ☐ NO

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: Revolution Consultants

ADDRESS:

CITY

STATE:

ZIP:

ATTENTION: Eleanor Vivadon

PHONE:

FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: NWIRP BETHPAGE

PROJECT NO.: 60731872 LOCATION: Bethpage

PROJECT MANAGER: Eleanor Vivadon

e-mail: Eleanor.Vivadon@aecom.com

PHONE:

FAX:

CLIENT BILLING INFORMATION

BILL TO: Eleanor V.

PO#:

ADDRESS: 27 Ellis place

CITY: Ossining

STATE: NY

ZIP: 10562

ATTENTION:

PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) _____ DAYS*

HARDCOPY (DATA PACKAGE): Standard _____ DAYS*

EDD: Standard _____ DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)

☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP

☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B

+ Raw Data ☐ Other _____

☐ EDD FORMAT _____

1. VCS P260
2. 1/4 dia 522
3. 1/4 dia 522

PRESERVATIVES

COMMENTS

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										COMMENTS ← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
			COMP	GRAB	DATE	TIME		A	F	F							
1.	TT189D2-20250617	GW		X	06/17	0930	3	2	1								
2.	TT150S1-20250617	GW		X	06/17	0925	3	2	1								
3.	RW8-MW01D1-20250617	GW		X	06/17	1015	3	2	1								
4.	TT192D2-20250617	GW		X	06/17	1018	3	2	1								
5.	BPOW6-4-20250616	GW		X	06/16	1100	4	2		2							
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME: 1200	RECEIVED BY:	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP _____ °C
1. Momo Aardk	6-17-25	1. [Signature]	Comments:
RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:	
2.		2. [Signature]	
RELINQUISHED BY SAMPLER:	DATE/TIME: 1608	RECEIVED BY:	
3. [Signature]	6-17-25	3. [Signature]	

Page 2 of 2

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete

☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2345 AECO15

Order Date : 6/17/2025 12:40:00 PM

Project Mgr :

Client Name : AECOM Technical Services

Project Name : NAVFAC NWIRP Bethpage

Report Type : Results Only **NYS ASP B**

Client Contact : Eleanor Vivadou

Receive DateTime : 6/17/2025 ~~12:00:00 AM~~ **16:08**

EDD Type : EQUIS

Invoice Name : AECOM Technical Services

Purchase Order :

Hard Copy Date :

Invoice Contact : Eleanor Vivadou

Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2345-01	EB02-202506026 16	Water	06/16/2025	08:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2345-02	TB03-20250616 1	Water	06/16/2025	12:15					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2345-03	BPOW6-1-20250616	Water	06/16/2025	09:30					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2345-04	BPOW6-2-20250616	Water	06/16/2025	09:30					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2345-05	DUP05-20250616	Water	06/16/2025	10:25					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2345-06	BPOW6-3-20250616	Water	06/16/2025	10:45					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2345-07	BPOW6-5-20250616	Water	06/16/2025	10:00					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2345-08	Q2345-07MS	Water	06/16/2025	10:00					

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2345 AECO15

Order Date : 6/17/2025 12:40:00 PM

Project Mgr :

Client Name : AECOM Technical Service:

Project Name : NAVFAC NWIRP Bethpage

Report Type : Results Only

Client Contact : Eleanor Vivadou

Receive DateTime : 6/17/2025 12:00:00 AM

EDD Type : EQUIS

Invoice Name : AECOM Technical Service:

Purchase Order :

Hard Copy Date :

Invoice Contact : Eleanor Vivadou

Date Signoff :

NYS ASP B
do

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2345-09	Q2345-07MSD	Water	06/16/2025	10:00	VOCMS Group1		8260-Low	10 Bus. Days	
Q2345-10	BPOW6-6-20250616	Water	06/16/2025	10:10	VOCMS Group1		8260-Low	10 Bus. Days	
Q2345-11	BPOW6-10-20250616	Water	06/16/2025	12:05	VOCMS Group1		8260-Low	10 Bus. Days	
Q2345-12	BPOW6-9-20250616	Water	06/16/2025	12:15	VOCMS Group1		8260-Low	10 Bus. Days	
Q2345-13	20250617 TT189D2-2050617	Water	06/17/2025	09:30	VOCMS Group1		8260-Low	10 Bus. Days	
Q2345-14	20250617 TT150S1-2050617	Water	06/17/2025	09:25	VOCMS Group1		8260-Low	10 Bus. Days	
Q2345-15	RW8-MW01D1-20250617	Water	06/17/2025	10:15	VOCMS Group1		8260-Low	10 Bus. Days	
					VOCMS Group1		8260-Low	10 Bus. Days	

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2345	AECO15	Order Date : 6/17/2025 12:40:00 PM	Project Mgr :
Client Name : AECOM Technical Services		Project Name : NAVFAC NWIRP Bethpage	Report Type : Results Only
Client Contact : Eleanor Vivadou		Receive DateTime : 6/17/2025 12:00:00 AM	EDD Type : EQUIS
Invoice Name : AECOM Technical Services		Purchase Order : 16.05 N	Hard Copy Date :
Invoice Contact : Eleanor Vivadou			Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2345-16	20250617 TT192D2-2050617	Water	06/17/2025	10:18					
					VOCMS Group1		8260-Low	10 Bus. Days	
Q2345-17	BPOW6-4-20250616	Water	06/17/2025	11:00					
					VOCMS Group1		8260-Low	10 Bus. Days	

Relinquished By :

Date / Time : 6/18/25 9:30

Received By :

Date / Time :

Storage Area : VOA Refridgerator Room

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037355.D
 Acq On : 20 Jun 2025 18:03
 Operator : RC/JU
 Sample : SSTDICCC0.4
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

Quant Time: Jun 20 23:26:55 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:25:11 2025
 Response via : Initial Calibration

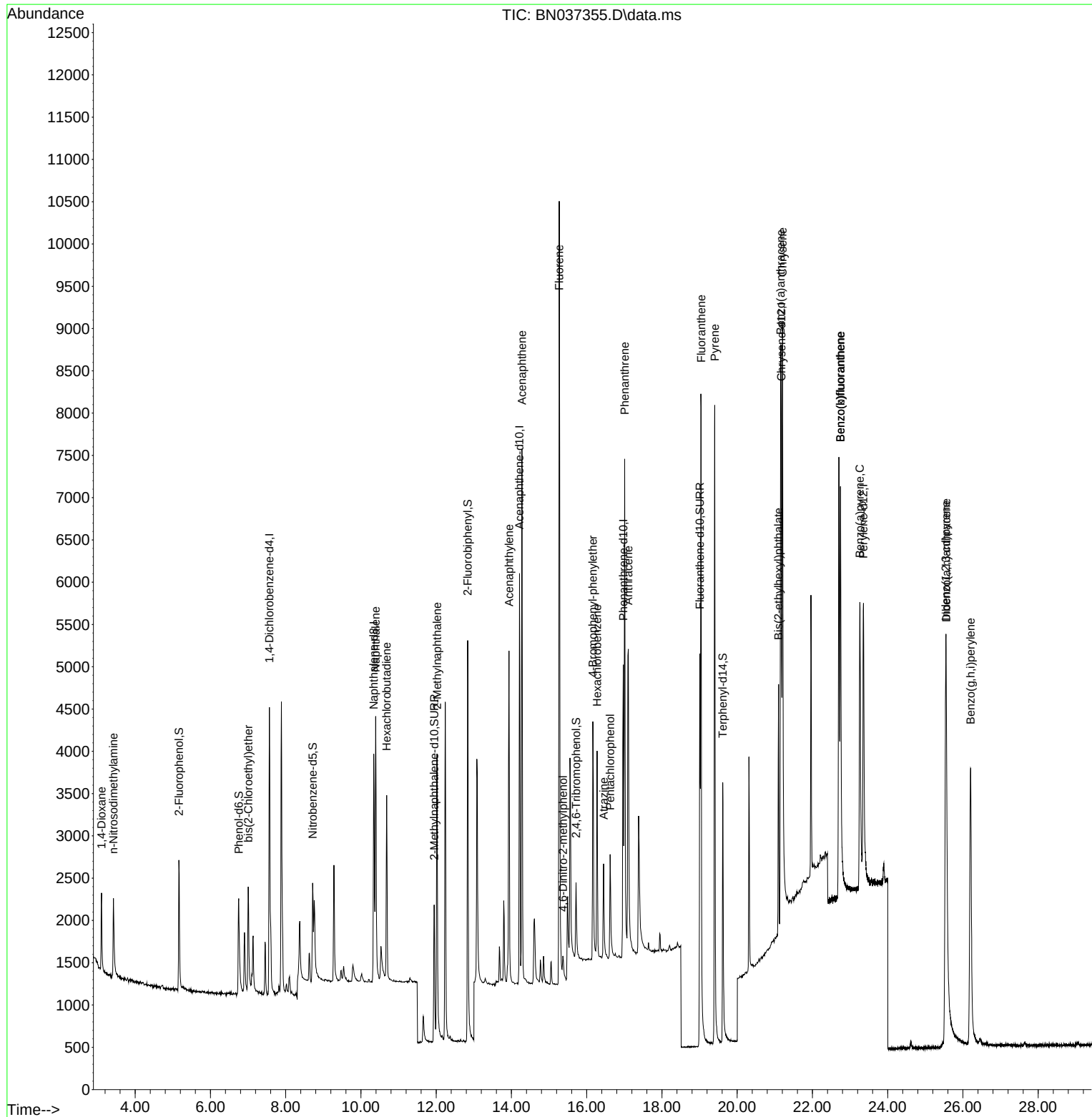
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1912	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4157	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2811	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5776	0.400	ng	# 0.00
29) Chrysene-d12	21.171	240	4813	0.400	ng	# 0.00
35) Perylene-d12	23.354	264	4943	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	1436	0.411	ng	0.00
5) Phenol-d6	6.752	99	1465	0.424	ng	0.00
8) Nitrobenzene-d5	8.717	82	1327	0.385	ng	0.00
11) 2-Methylnaphthalene-d10	11.945	152	2768	0.411	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	646	0.321	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	4996	0.405	ng	0.00
27) Fluoranthene-d10	19.008	212	6705	0.373	ng	0.00
31) Terphenyl-d14	19.616	244	4452	0.405	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.104	88	745	0.441	ng	94
3) n-Nitrosodimethylamine	3.422	42	754	0.383	ng	81
6) bis(2-Chloroethyl)ether	7.004	93	1351	0.446	ng	94
9) Naphthalene	10.394	128	4347	0.403	ng	# 89
10) Hexachlorobutadiene	10.682	225	1832	0.348	ng	# 99
12) 2-Methylnaphthalene	12.021	142	2957	0.390	ng	92
16) Acenaphthylene	13.935	152	4490	0.381	ng	99
17) Acenaphthene	14.277	154	2983	0.381	ng	98
18) Fluorene	15.272	166	4232	0.382	ng	100
20) 4,6-Dinitro-2-methylph...	15.368	198	459	0.263	ng	89
21) 4-Bromophenyl-phenylether	16.165	248	1611	0.342	ng	# 85
22) Hexachlorobenzene	16.276	284	1814	0.369	ng	98
23) Atrazine	16.450	200	1262	0.342	ng	# 85
24) Pentachlorophenol	16.624	266	792	0.293	ng	98
25) Phenanthrene	17.009	178	6374	0.391	ng	99
26) Anthracene	17.108	178	5717	0.375	ng	98
28) Fluoranthene	19.040	202	7896	0.354	ng	# 98
30) Pyrene	19.402	202	7990	0.434	ng	100
32) Benzo(a)anthracene	21.153	228	5851	0.377	ng	98
33) Chrysene	21.207	228	7754	0.394	ng	98
34) Bis(2-ethylhexyl)phtha...	21.099	149	2603	0.409	ng	98
36) Indeno(1,2,3-cd)pyrene	25.541	276	8379	0.400	ng	# 93
37) Benzo(b)fluoranthene	22.746	252	7755	0.442	ng	95
38) Benzo(k)fluoranthene	22.746	252	7755	0.407	ng	95
39) Benzo(a)pyrene	23.257	252	6298	0.393	ng	# 92
40) Dibenzo(a,h)anthracene	25.555	278	6108	0.366	ng	# 88
41) Benzo(g,h,i)perylene	26.204	276	7852	0.408	ng	95

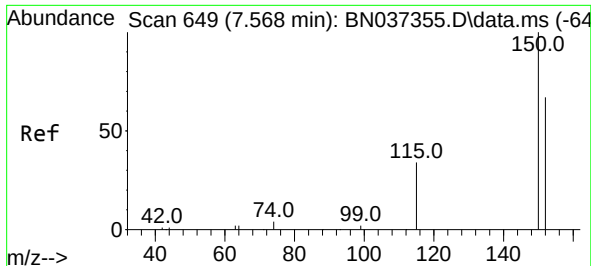
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037355.D
Acq On : 20 Jun 2025 18:03
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

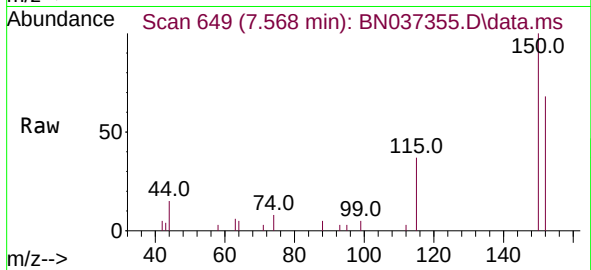
Quant Time: Jun 20 23:26:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:25:11 2025
Response via : Initial Calibration



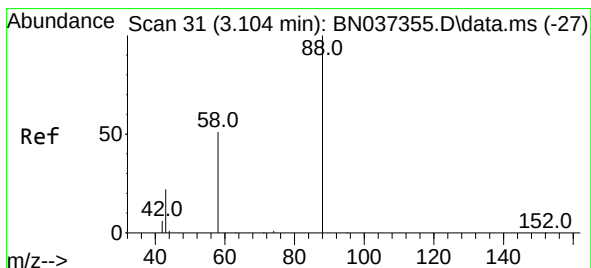
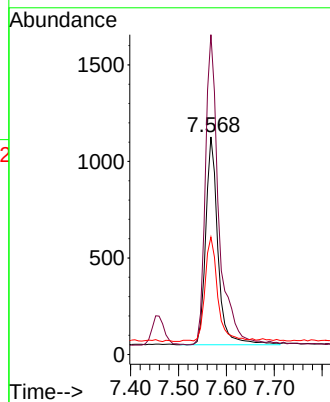
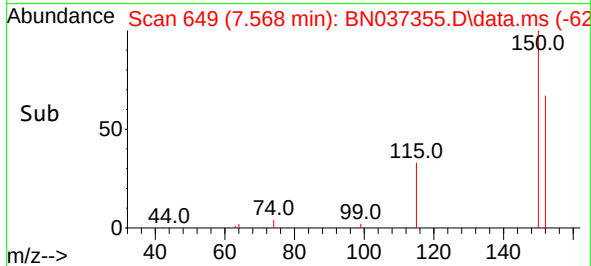


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

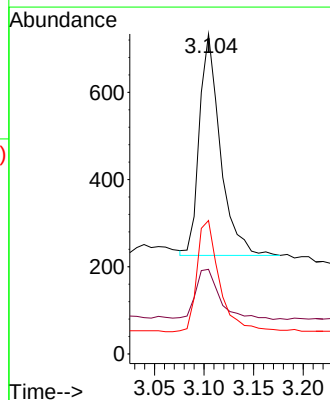
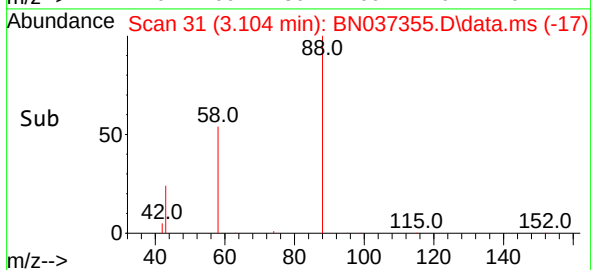
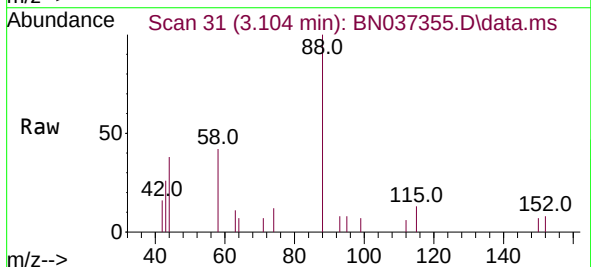


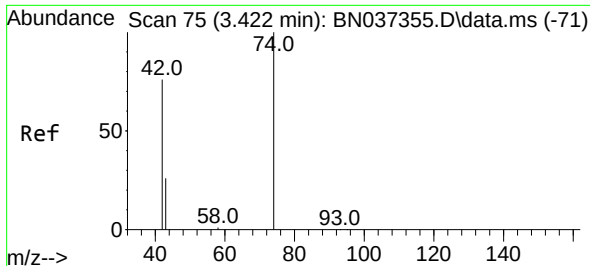
Tgt Ion:152 Resp: 1912
Ion Ratio Lower Upper
152 100
150 147.0 112.7 169.1
115 53.9 45.9 68.9



#2
1,4-Dioxane
Concen: 0.441 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion: 88 Resp: 745
Ion Ratio Lower Upper
88 100
43 26.3 21.0 31.6
58 54.1 38.0 57.0

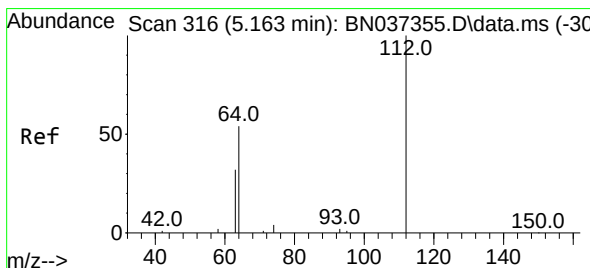
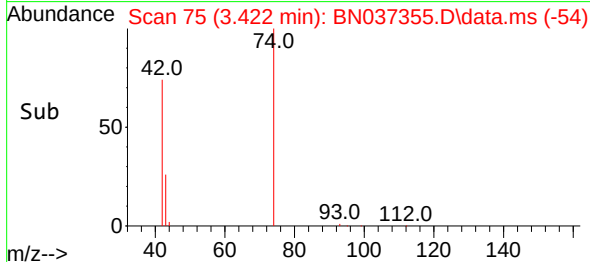
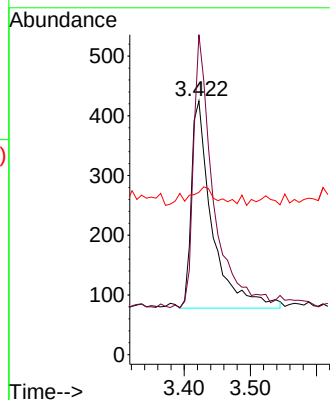
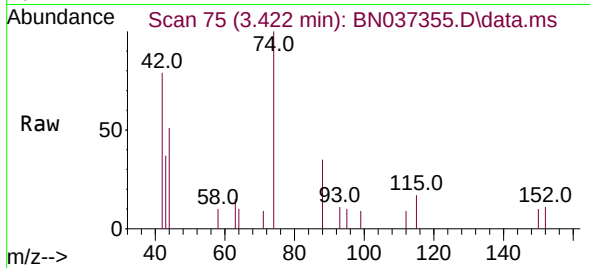




#3
n-Nitrosodimethylamine
Concen: 0.383 ng
RT: 3.422 min Scan# 75
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

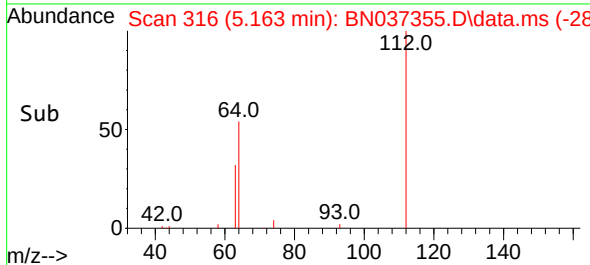
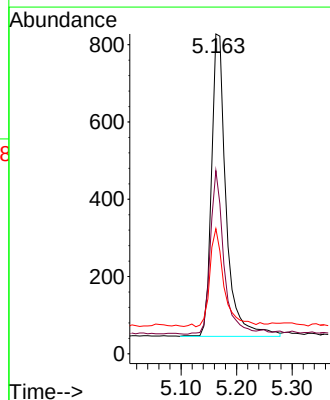
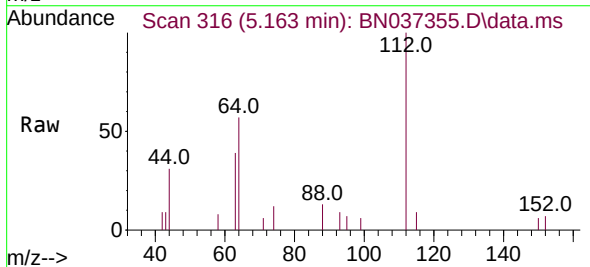
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

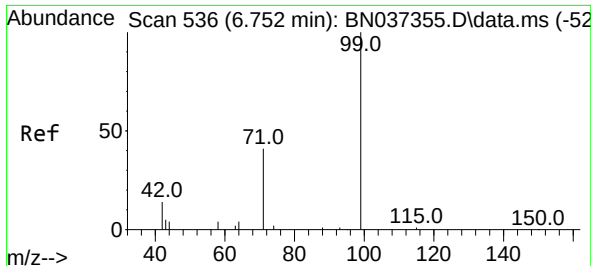
Tgt Ion:	42	Resp:	754
Ion	Ratio	Lower	Upper
42	100		
74	126.4	84.3	126.5
44	5.7	5.0	7.4



#4
2-Fluorophenol
Concen: 0.411 ng
RT: 5.163 min Scan# 316
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:	112	Resp:	1436
Ion	Ratio	Lower	Upper
112	100		
64	49.6	38.7	58.1
63	31.1	26.4	39.6

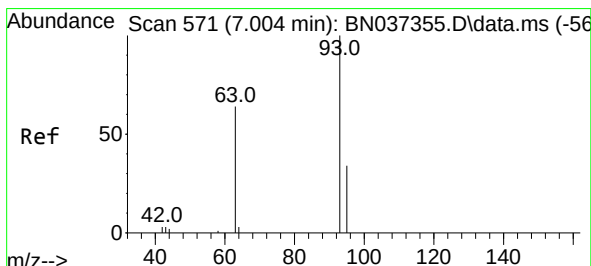
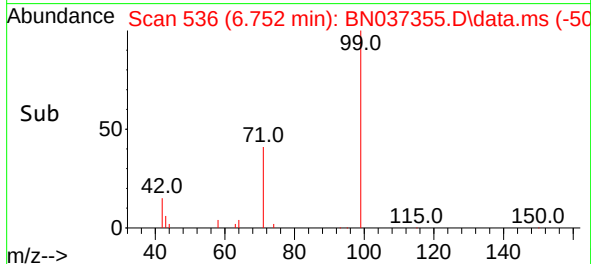
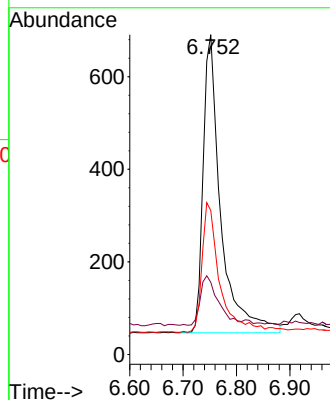
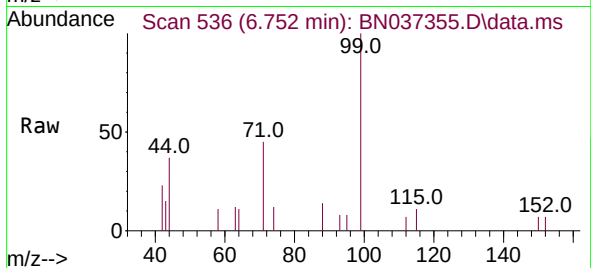




#5
Phenol-d6
Concen: 0.424 ng
RT: 6.752 min Scan# 536
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

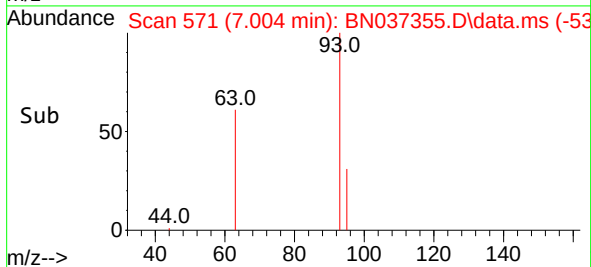
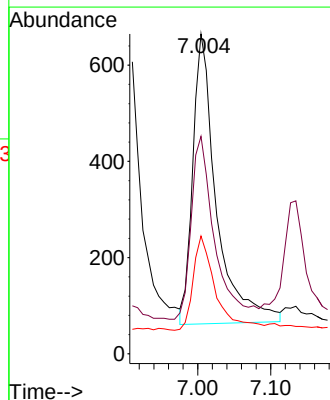
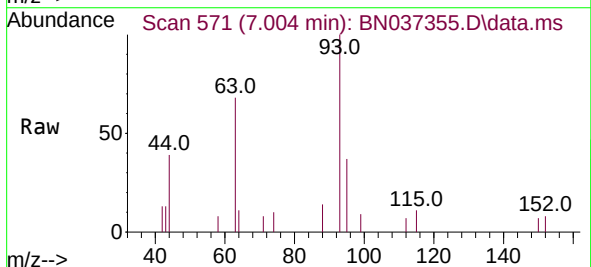
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

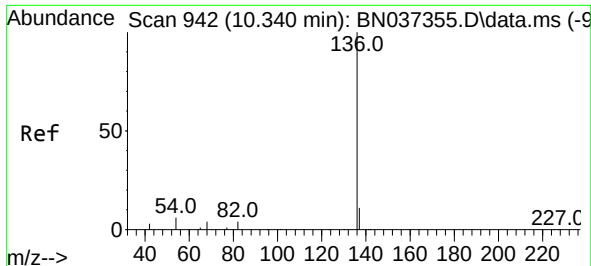
Tgt Ion: 99 Resp: 1465
Ion Ratio Lower Upper
99 100
42 17.0 19.8 29.8#
71 43.2 42.6 64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.446 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion: 93 Resp: 1351
Ion Ratio Lower Upper
93 100
63 60.9 53.2 79.8
95 31.1 27.3 40.9

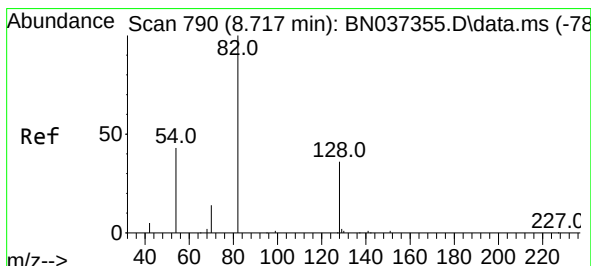
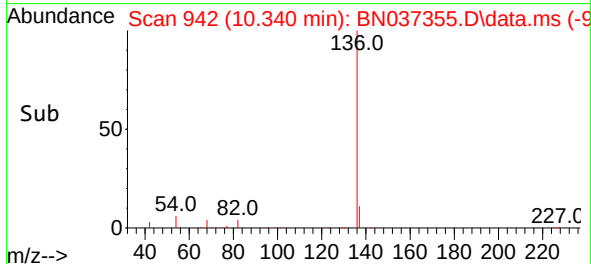
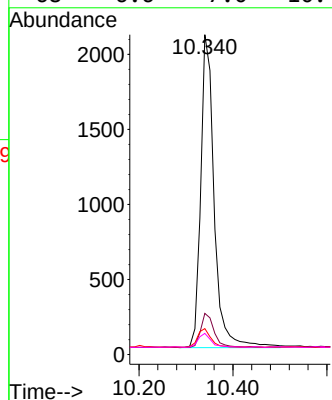
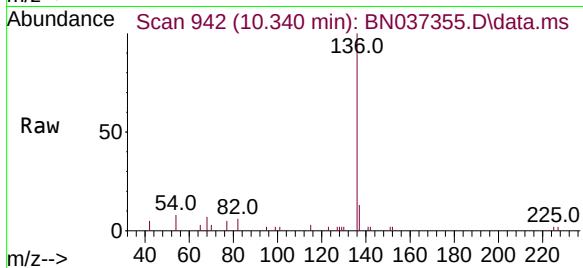




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

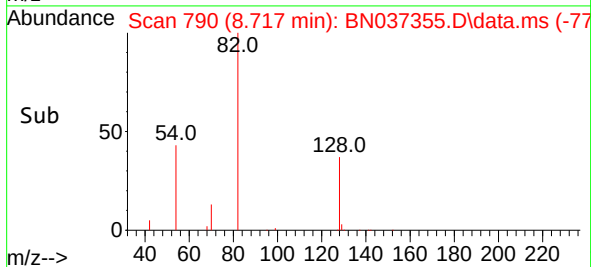
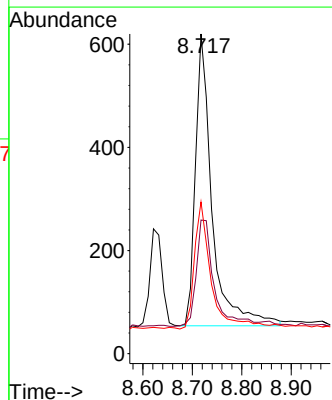
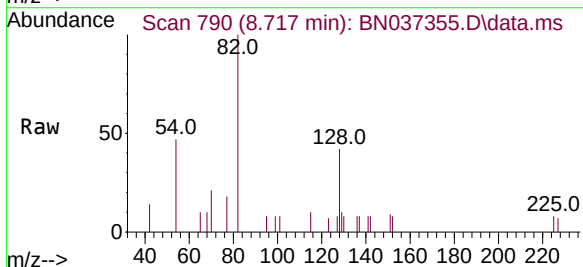
Instrument :
BNA_N
ClientSampleId :
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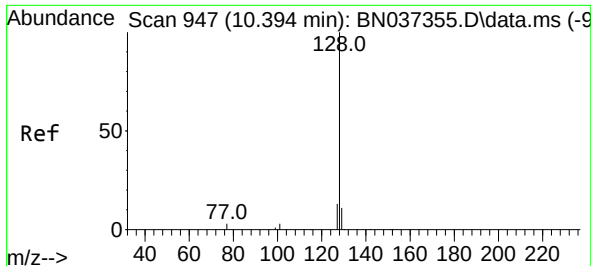
Tgt Ion:	136	Resp:	4157
Ion	Ratio	Lower	Upper
136	100		
137	12.9	12.2	18.2
54	8.1	8.8	13.2#
68	6.6	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 0.385 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:	82	Resp:	1327
Ion	Ratio	Lower	Upper
82	100		
128	41.8	42.5	63.7#
54	47.4	43.2	64.8

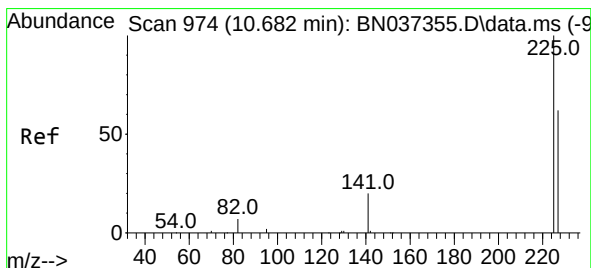
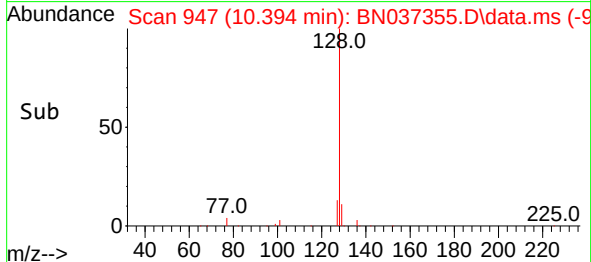
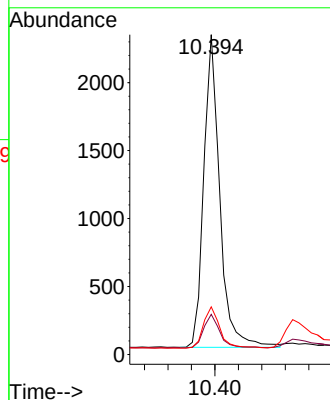
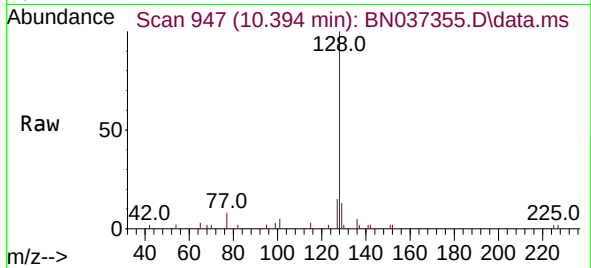




#9
Naphthalene
Concen: 0.403 ng
RT: 10.394 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

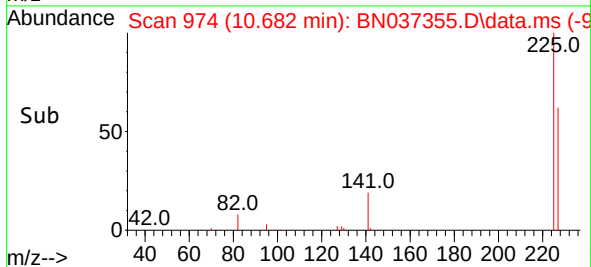
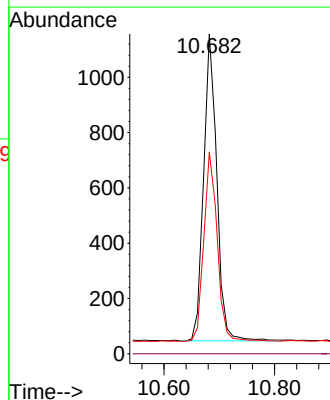
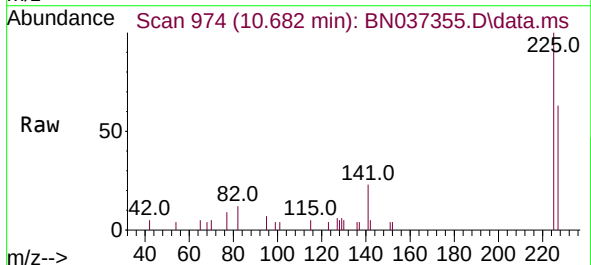
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BNA_N
ClientSampleId :
SSTDICCC0.4

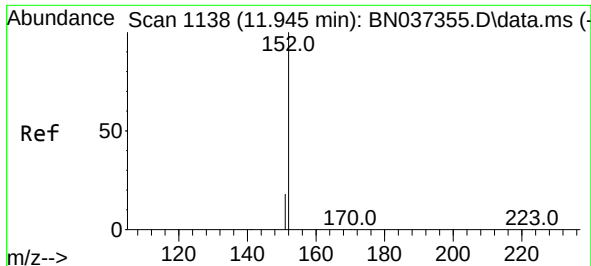
Tgt Ion:128 Resp: 4347
Ion Ratio Lower Upper
128 100
129 12.5 14.0 21.0#
127 14.9 15.8 23.8#



#10
Hexachlorobutadiene
Concen: 0.348 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:225 Resp: 1832
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.4 50.3 75.5

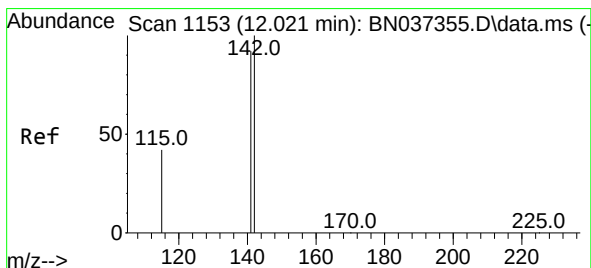
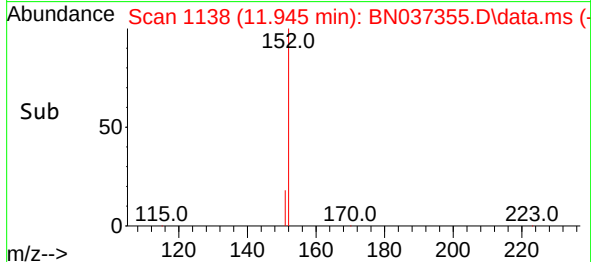
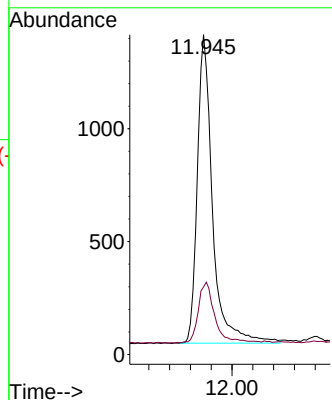
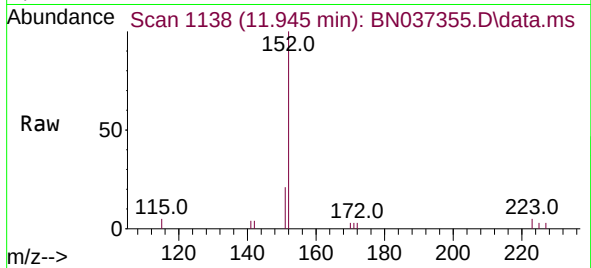




#11
2-Methylnaphthalene-d10
Concen: 0.411 ng
RT: 11.945 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

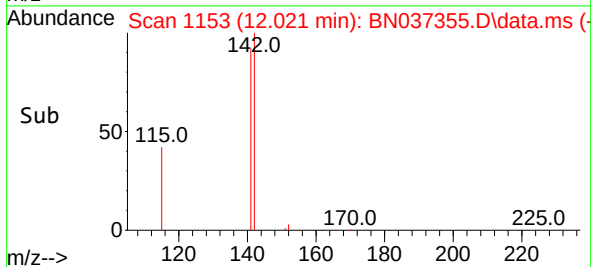
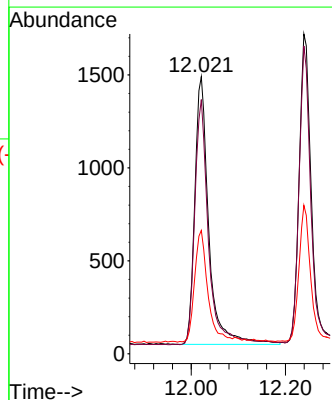
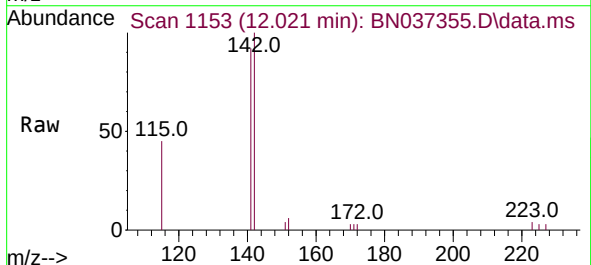
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

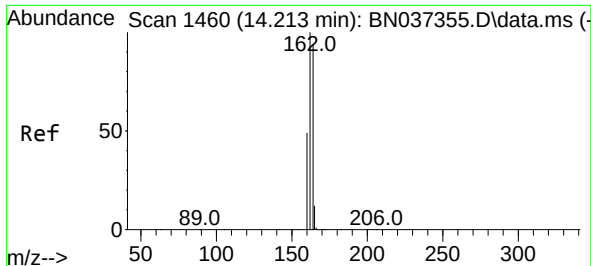
Tgt Ion:152 Resp: 2768
Ion Ratio Lower Upper
152 100
151 21.9 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.390 ng
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:142 Resp: 2957
Ion Ratio Lower Upper
142 100
141 91.8 70.2 105.2
115 44.5 43.0 64.4

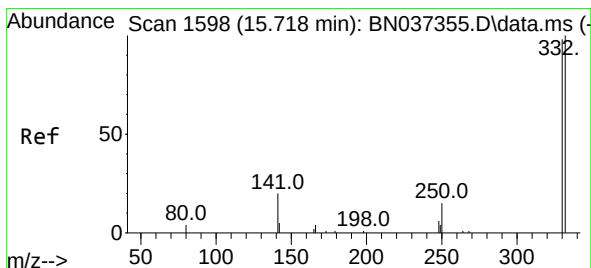
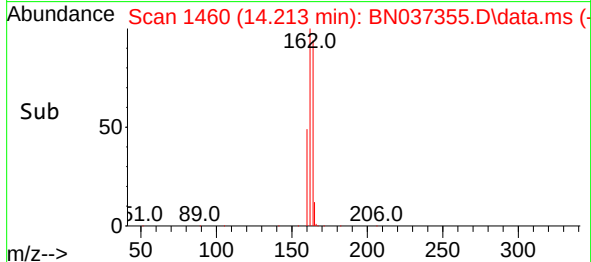
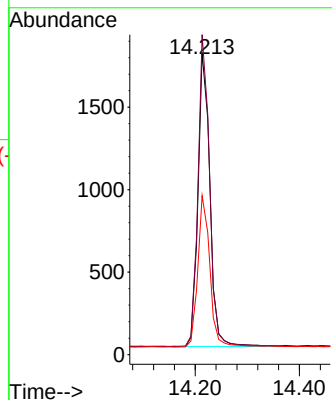
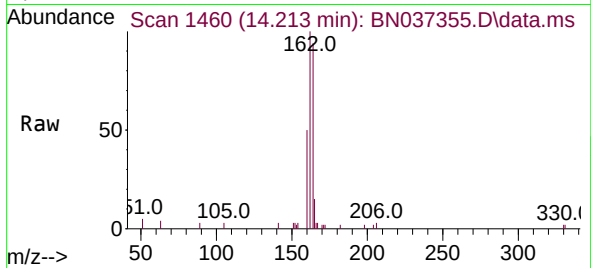




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 1460
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

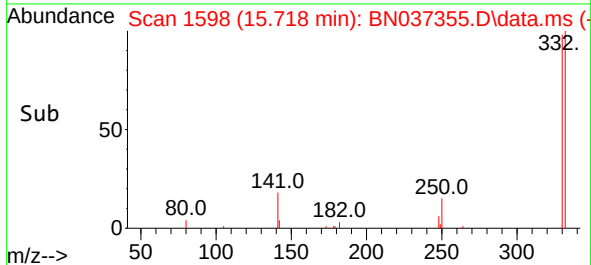
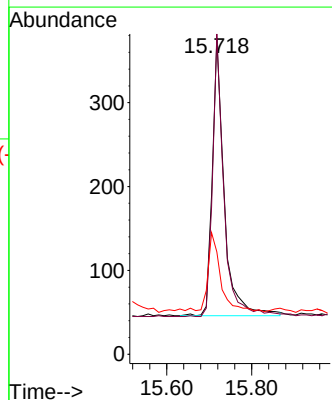
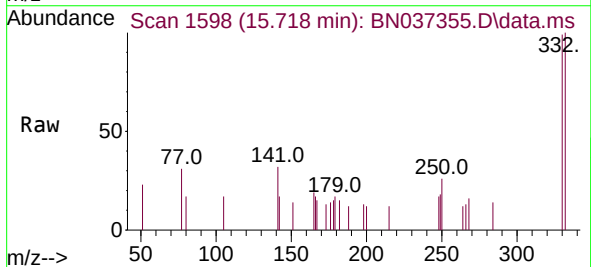
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

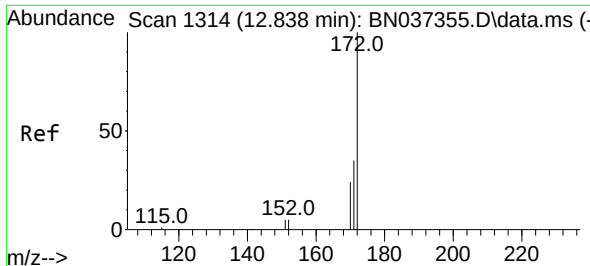
Tgt Ion:164 Resp: 2811
Ion Ratio Lower Upper
164 100
162 106.2 81.5 122.3
160 52.8 43.0 64.4



#14
2,4,6-Tribromophenol
Concen: 0.321 ng
RT: 15.718 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:330 Resp: 646
Ion Ratio Lower Upper
330 100
332 96.3 78.4 117.6
141 29.6 24.4 36.6

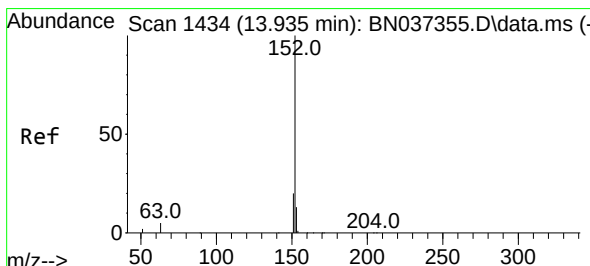
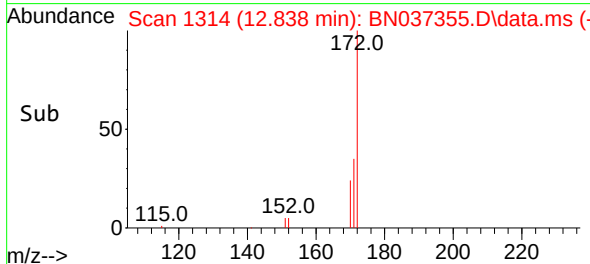
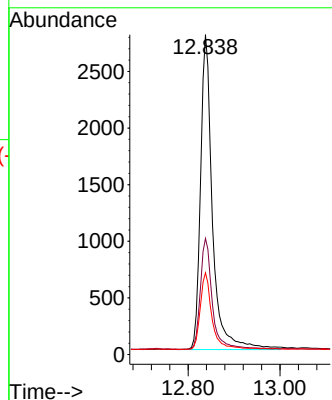
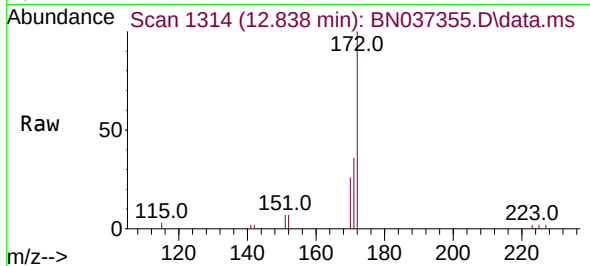




#15
2-Fluorobiphenyl
Concen: 0.405 ng
RT: 12.838 min Scan# 1314
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

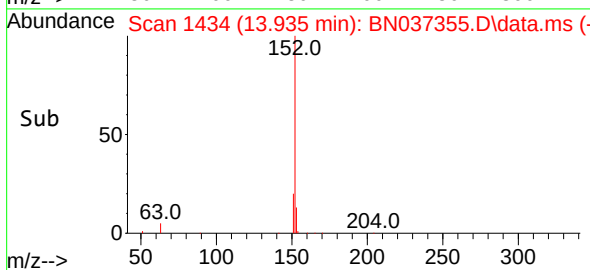
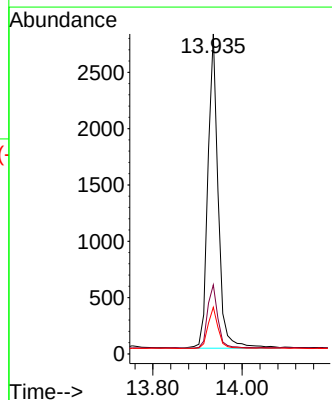
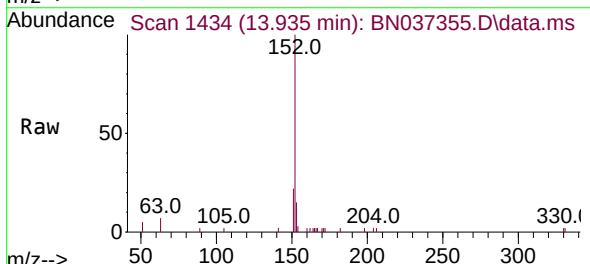
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

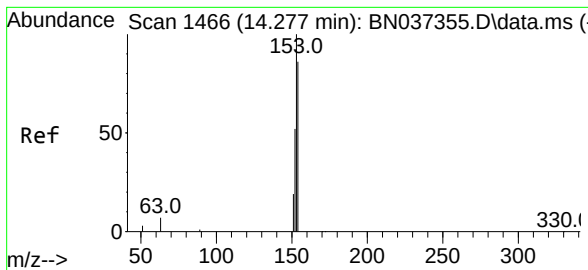
Tgt Ion:	172	Resp:	4996
Ion Ratio	Lower	Upper	
172	100		
171	36.2	30.8	46.2
170	25.6	21.9	32.9



#16
Acenaphthylene
Concen: 0.381 ng
RT: 13.935 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:	152	Resp:	4490
Ion Ratio	Lower	Upper	
152	100		
151	20.3	16.6	24.8
153	13.1	10.2	15.2

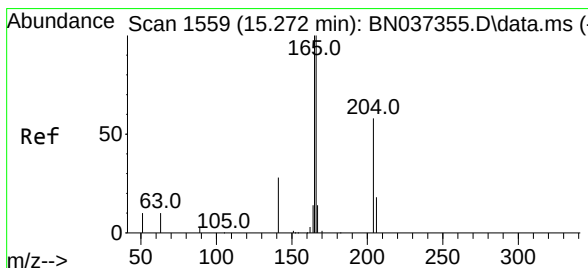
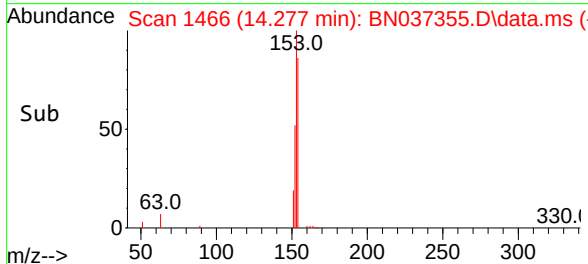
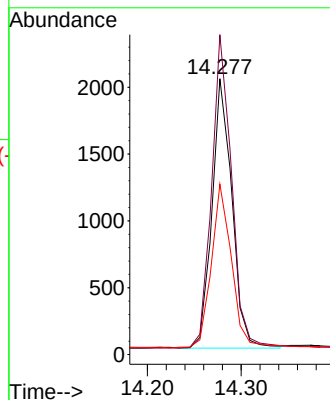
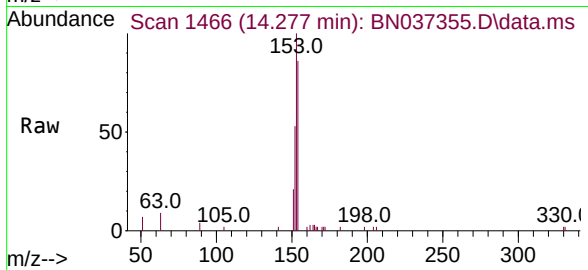




#17
Acenaphthene
Concen: 0.381 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

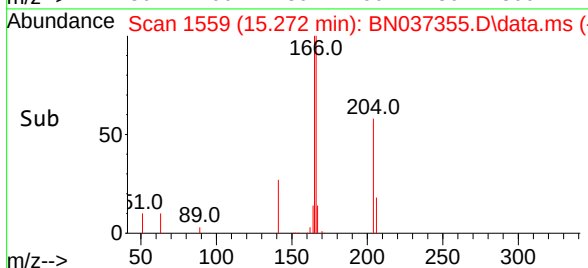
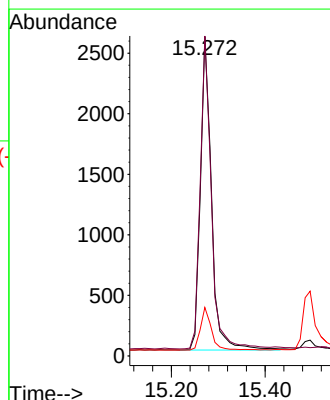
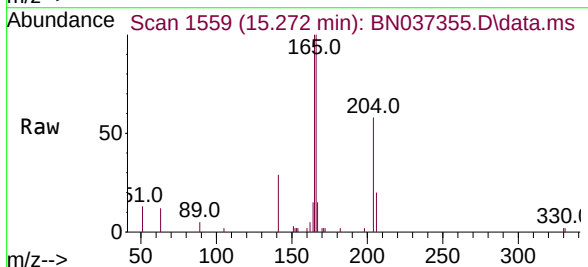
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

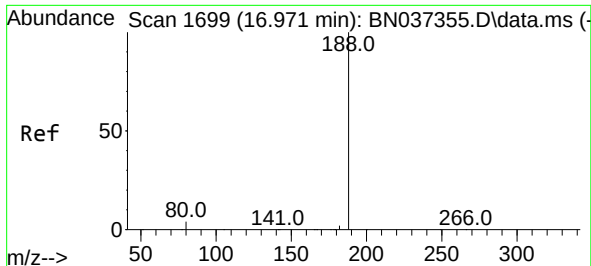
Tgt Ion:	154	Resp:	2983
Ion Ratio	Lower	Upper	
154	100		
153	117.6	93.1	139.7
152	63.0	48.6	73.0



#18
Fluorene
Concen: 0.382 ng
RT: 15.272 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:	166	Resp:	4232
Ion Ratio	Lower	Upper	
166	100		
165	99.8	79.5	119.3
167	13.6	10.7	16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

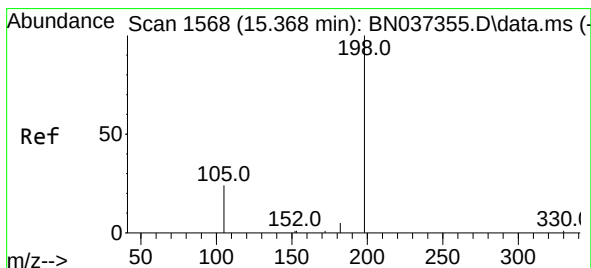
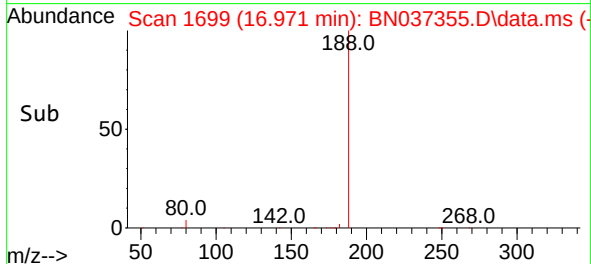
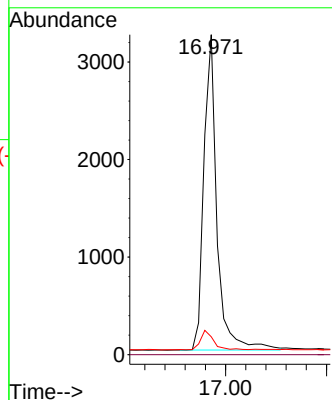
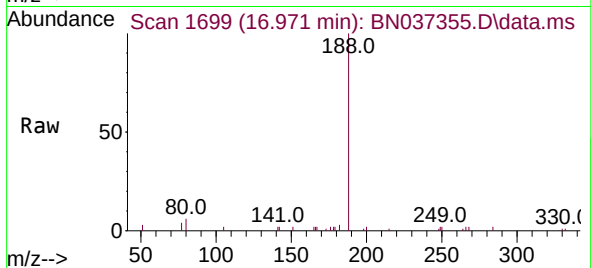
Tgt Ion:188 Resp: 5776

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.6 6.2 9.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.263 ng

RT: 15.368 min Scan# 1568

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

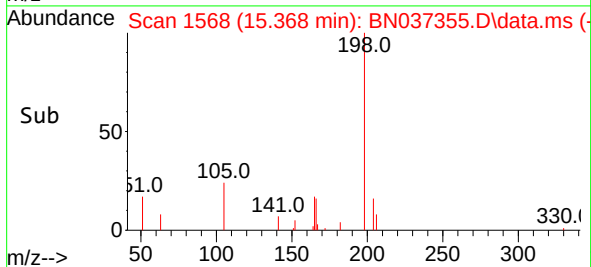
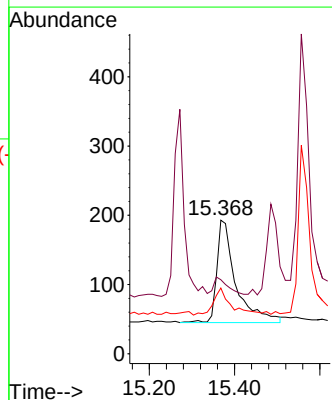
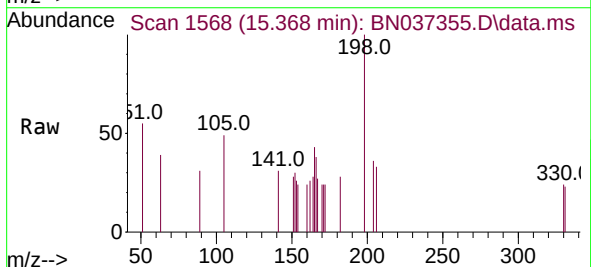
Tgt Ion:198 Resp: 459

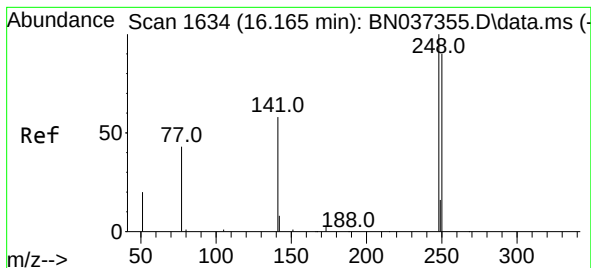
Ion Ratio Lower Upper

198 100

51 55.4 51.4 77.0

105 49.2 45.5 68.3

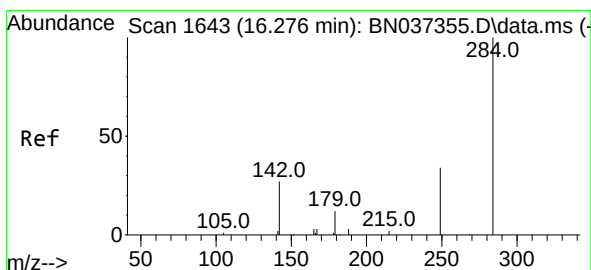
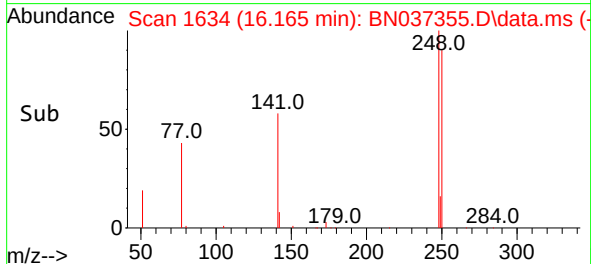
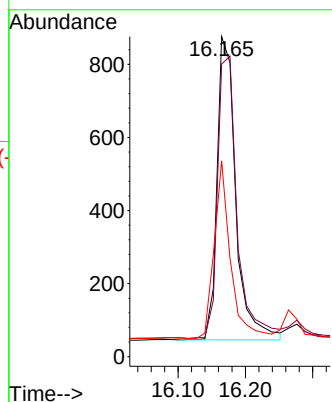
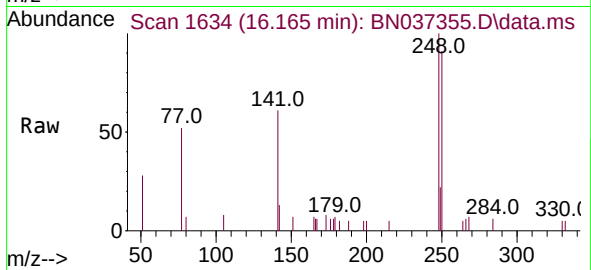




#21
4-Bromophenyl-phenylether
Concen: 0.342 ng
RT: 16.165 min Scan# 1634
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

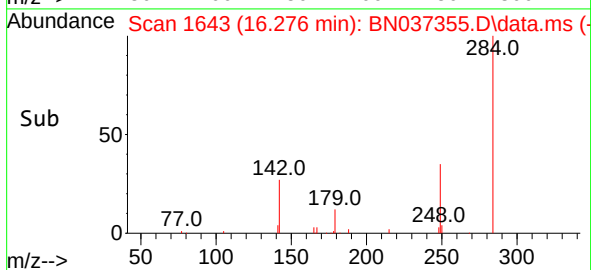
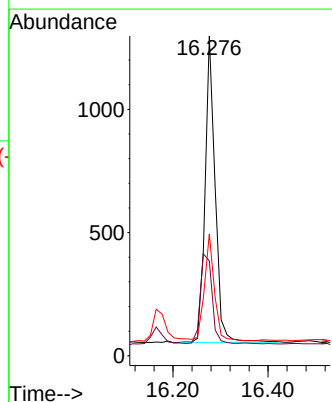
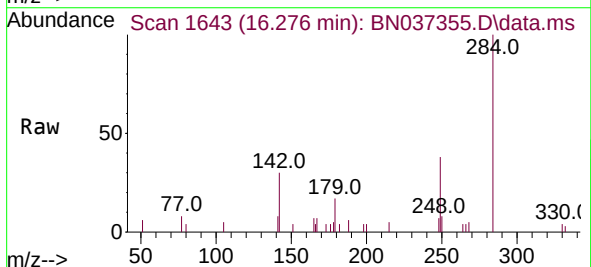
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

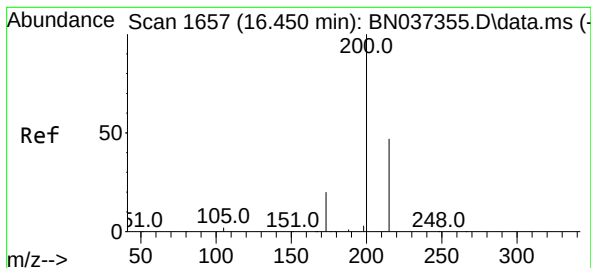
Tgt Ion:248 Resp: 1611
Ion Ratio Lower Upper
248 100
250 91.4 80.4 120.6
141 61.2 33.3 49.9#



#22
Hexachlorobenzene
Concen: 0.369 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:284 Resp: 1814
Ion Ratio Lower Upper
284 100
142 34.2 27.0 40.6
249 34.2 28.8 43.2





#23

Atrazine

Concen: 0.342 ng

RT: 16.450 min Scan# 1657

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

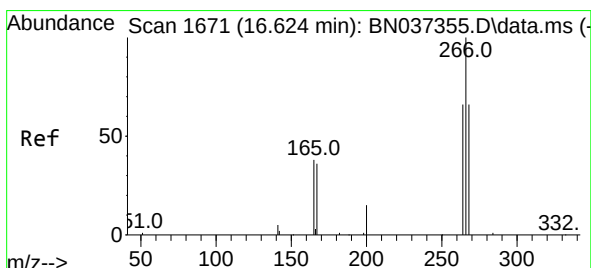
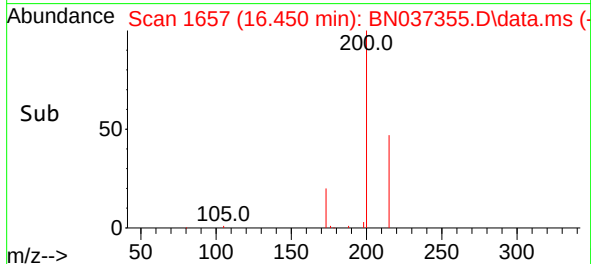
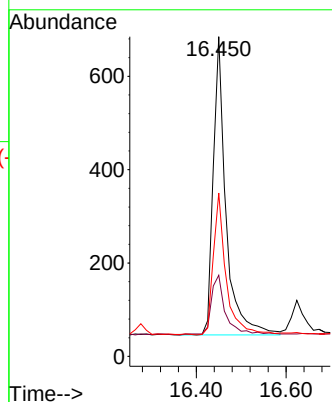
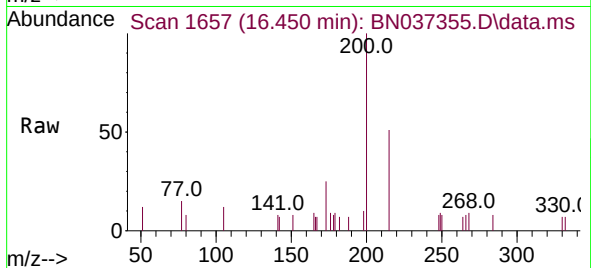
Tgt Ion:200 Resp: 1262

Ion Ratio Lower Upper

200 100

173 25.4 29.2 43.8#

215 51.1 48.8 73.2



#24

Pentachlorophenol

Concen: 0.293 ng

RT: 16.624 min Scan# 1671

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

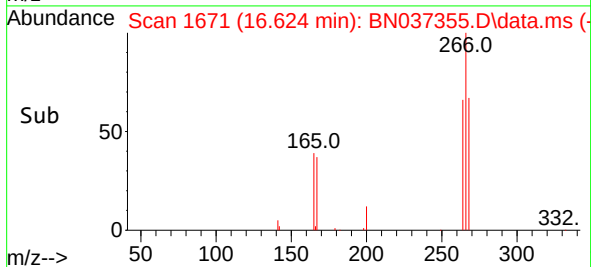
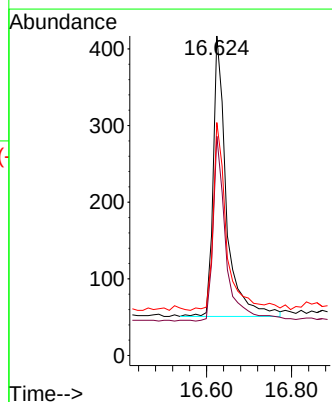
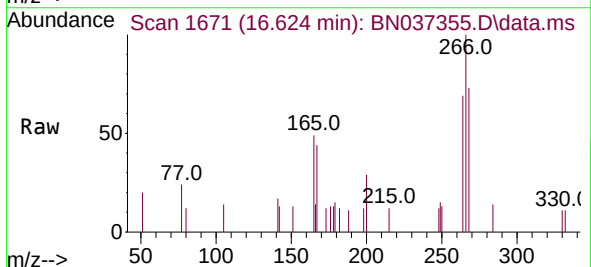
Tgt Ion:266 Resp: 792

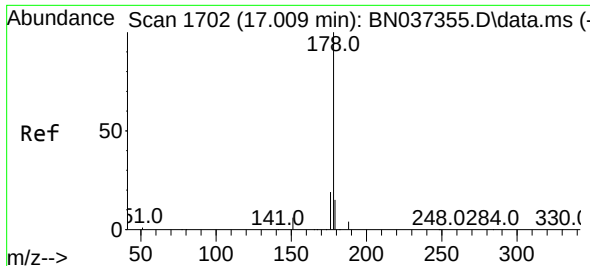
Ion Ratio Lower Upper

266 100

264 64.3 50.3 75.5

268 67.4 55.3 82.9

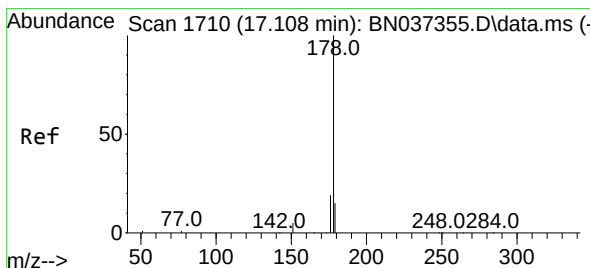
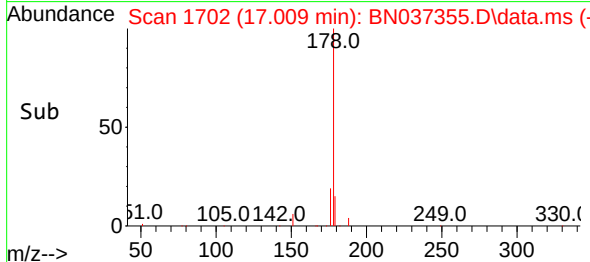
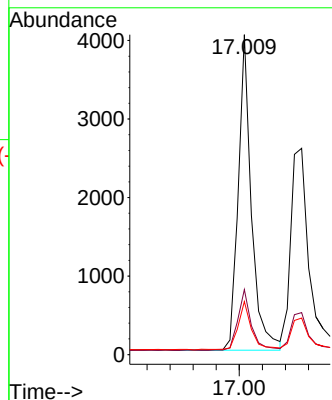
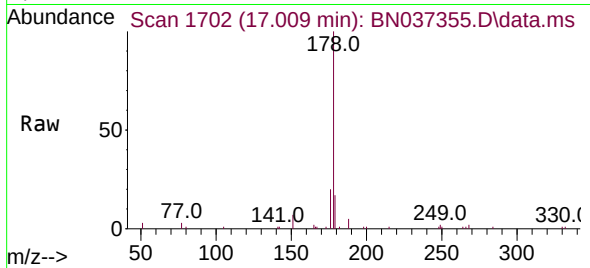




#25
 Phenanthrene
 Concen: 0.391 ng
 RT: 17.009 min Scan# 1710
 Delta R.T. 0.000 min
 Lab File: BN037355.D
 Acq: 20 Jun 2025 18:03

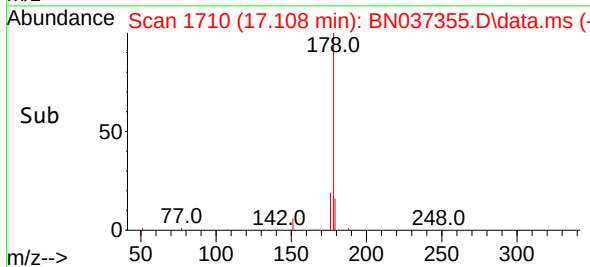
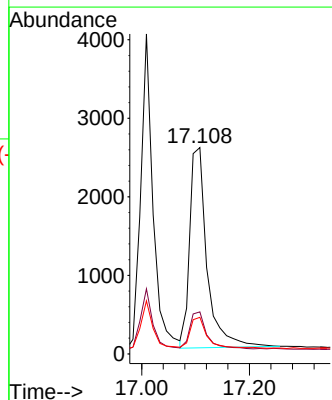
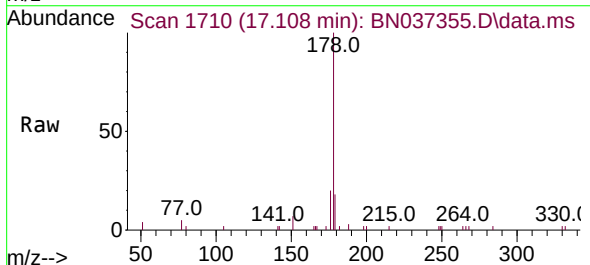
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

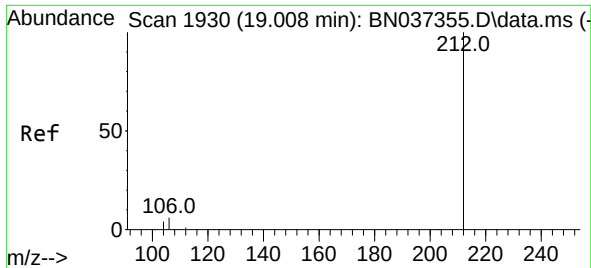
Tgt Ion:	178	Resp:	6374
Ion Ratio	Lower	Upper	
178	100		
176	19.7	15.2	22.8
179	15.8	12.9	19.3



#26
 Anthracene
 Concen: 0.375 ng
 RT: 17.108 min Scan# 1710
 Delta R.T. 0.000 min
 Lab File: BN037355.D
 Acq: 20 Jun 2025 18:03

Tgt Ion:	178	Resp:	5717
Ion Ratio	Lower	Upper	
178	100		
176	18.2	14.7	22.1
179	15.2	13.0	19.6

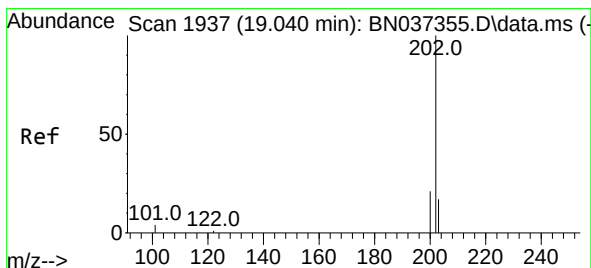
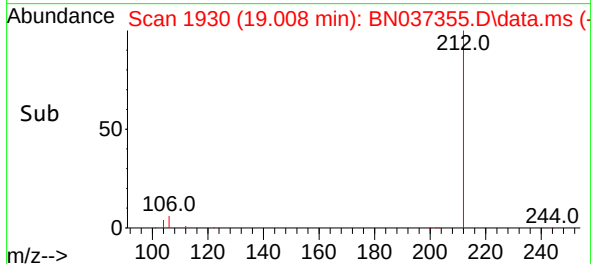
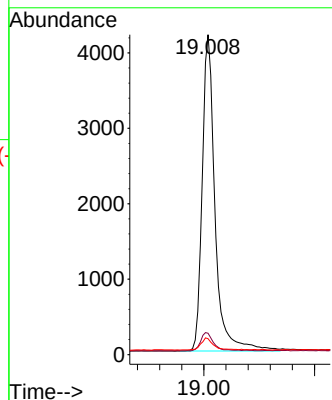
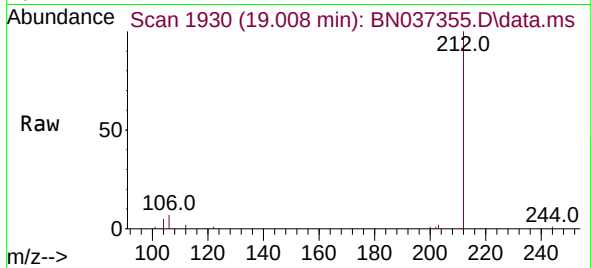




#27
Fluoranthene-d10
Concen: 0.373 ng
RT: 19.008 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

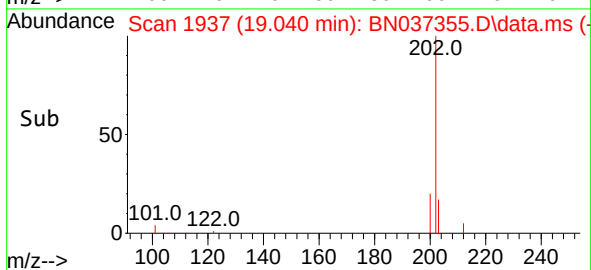
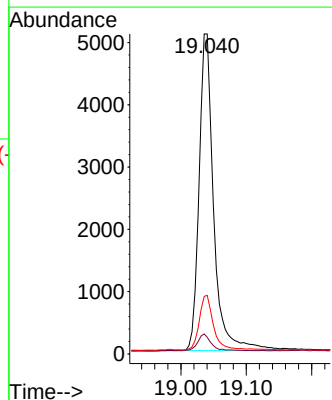
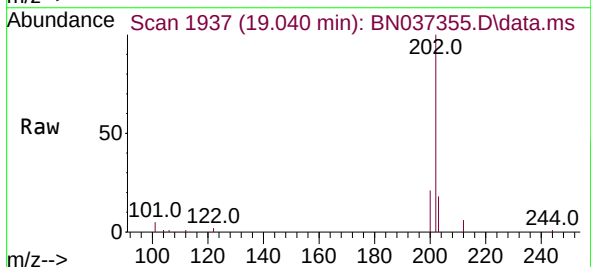
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

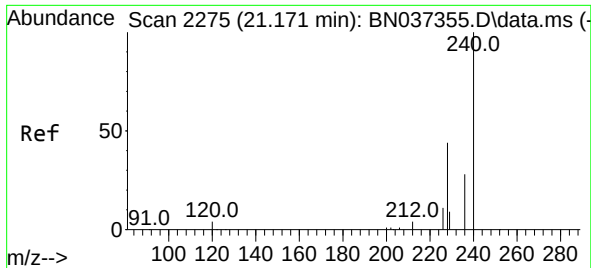
Tgt Ion:212 Resp: 6705
Ion Ratio Lower Upper
212 100
106 5.8 3.0 4.4#
104 3.8 2.0 3.0#



#28
Fluoranthene
Concen: 0.354 ng
RT: 19.040 min Scan# 1937
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:202 Resp: 7896
Ion Ratio Lower Upper
202 100
101 5.2 3.0 4.6#
203 16.6 13.7 20.5

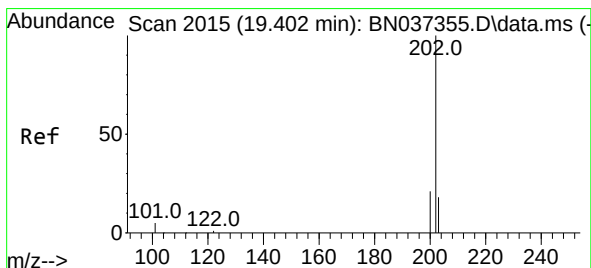
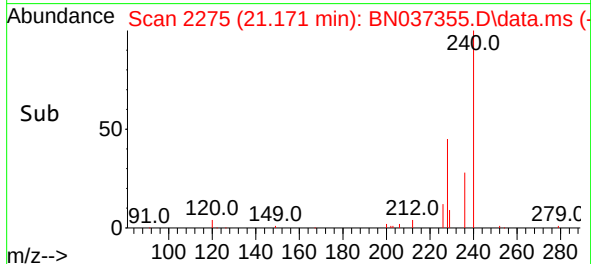
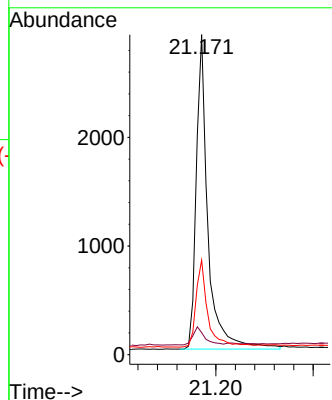
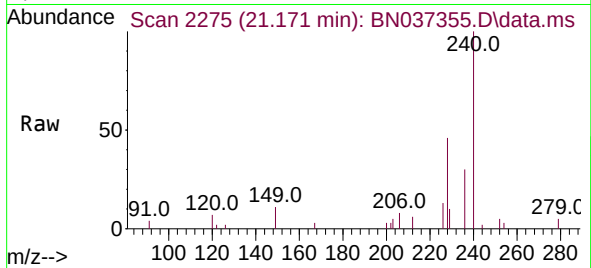




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.171 min Scan# 2117
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

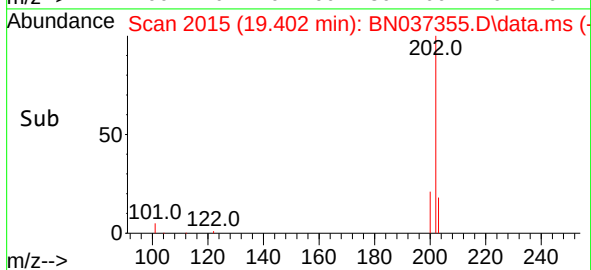
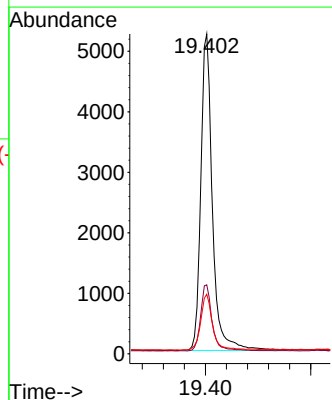
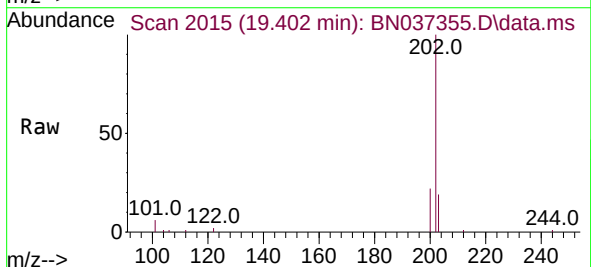
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

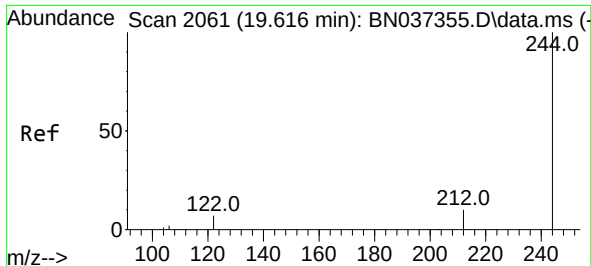
Tgt Ion:240 Resp: 4813
Ion Ratio Lower Upper
240 100
120 6.9 7.5 11.3#
236 29.5 24.9 37.3



#30
Pyrene
Concen: 0.434 ng
RT: 19.402 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:202 Resp: 7990
Ion Ratio Lower Upper
202 100
200 21.1 16.8 25.2
203 18.0 14.5 21.7

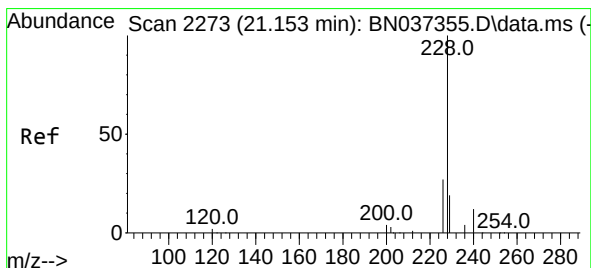
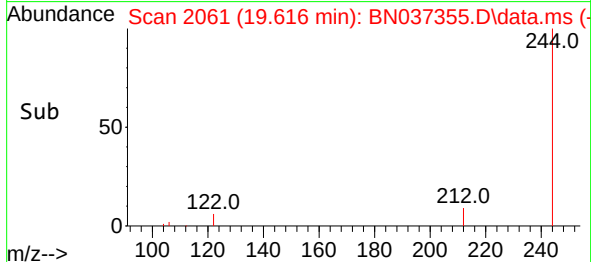
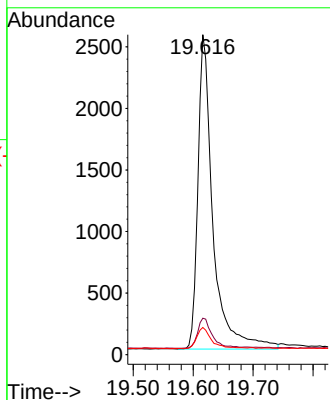
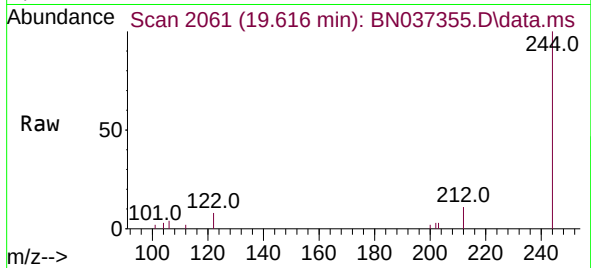




#31
 Terphenyl-d14
 Concen: 0.405 ng
 RT: 19.616 min Scan# 2061
 Delta R.T. 0.000 min
 Lab File: BN037355.D
 Acq: 20 Jun 2025 18:03

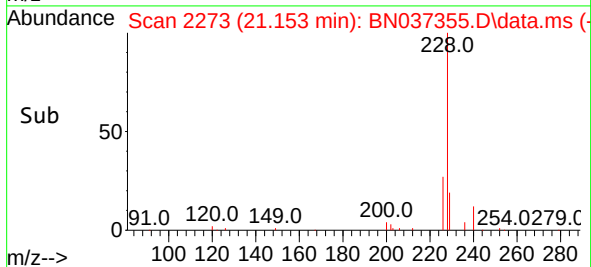
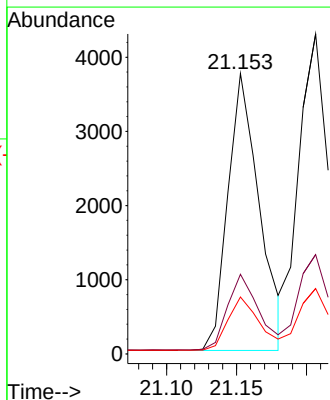
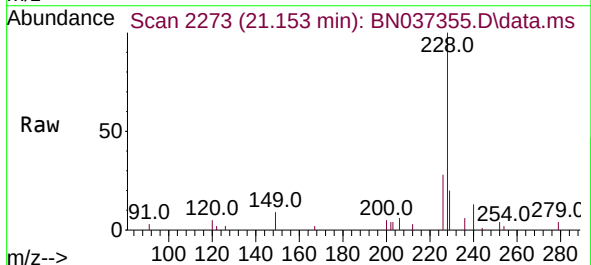
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

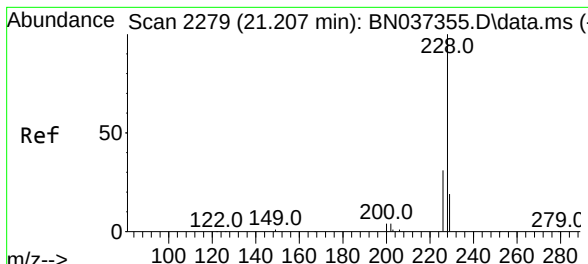
Tgt Ion:244	Resp:	4452
Ion Ratio	Lower	Upper
244	100	
212	11.4	11.1 16.7
122	8.5	7.2 10.8



#32
 Benzo(a)anthracene
 Concen: 0.377 ng
 RT: 21.153 min Scan# 2273
 Delta R.T. 0.000 min
 Lab File: BN037355.D
 Acq: 20 Jun 2025 18:03

Tgt Ion:228	Resp:	5851
Ion Ratio	Lower	Upper
228	100	
226	28.4	23.0 34.4
229	20.3	17.4 26.0

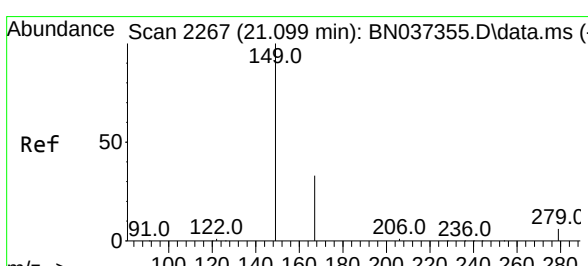
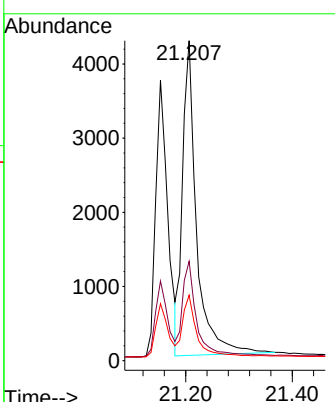
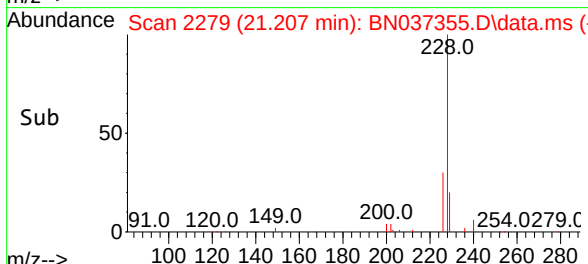
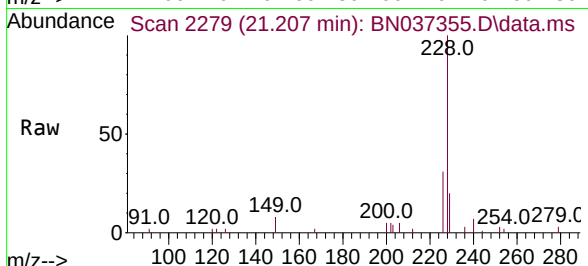




#33
 Chrysene
 Concen: 0.394 ng
 RT: 21.207 min Scan# 2279
 Delta R.T. 0.000 min
 Lab File: BN037355.D
 Acq: 20 Jun 2025 18:03

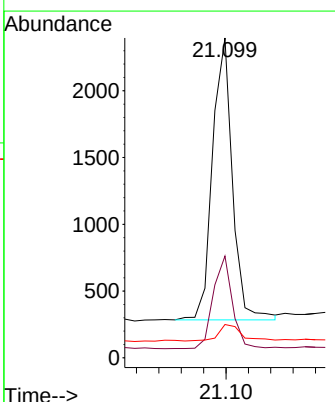
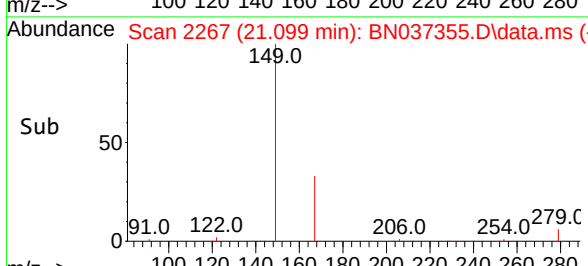
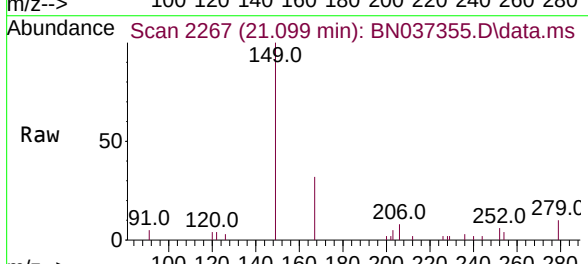
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4

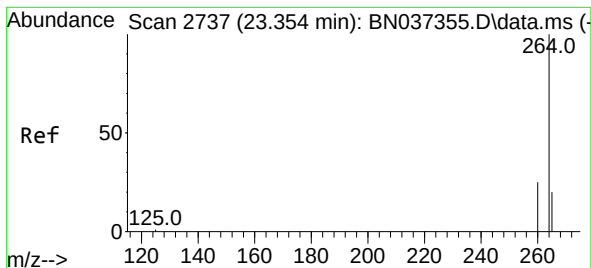
Tgt Ion:	228	Resp:	7754
Ion Ratio	Lower	Upper	
228	100		
226	31.0	25.4	38.2
229	20.4	17.3	25.9



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.409 ng
 RT: 21.099 min Scan# 2267
 Delta R.T. 0.000 min
 Lab File: BN037355.D
 Acq: 20 Jun 2025 18:03

Tgt Ion:	149	Resp:	2603
Ion Ratio	Lower	Upper	
149	100		
167	31.9	24.6	37.0
279	7.2	6.5	9.7





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.354 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

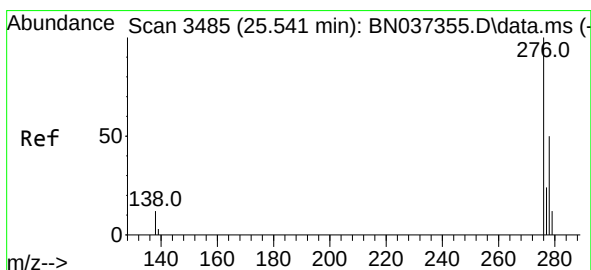
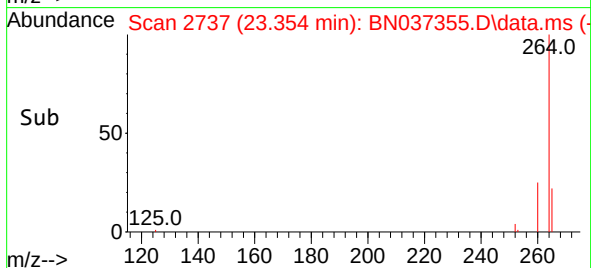
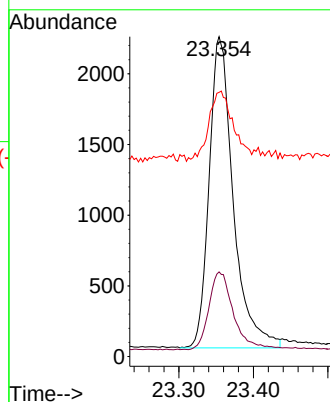
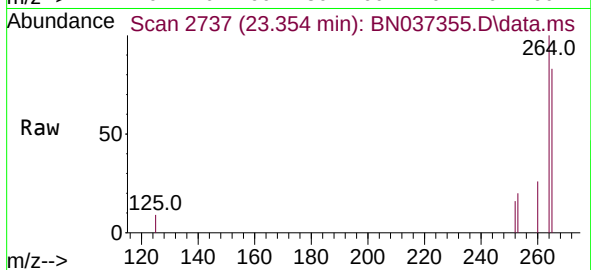
Tgt Ion:264 Resp: 4943

Ion Ratio Lower Upper

264 100

260 26.5 21.4 32.2

265 82.6 71.4 107.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.400 ng

RT: 25.541 min Scan# 3485

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

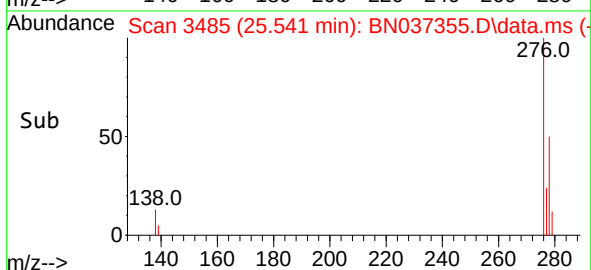
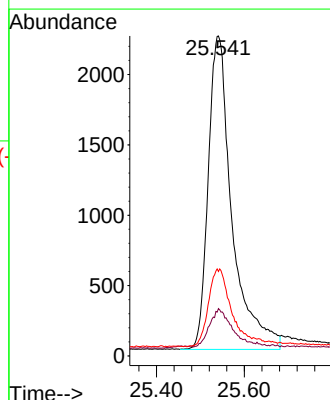
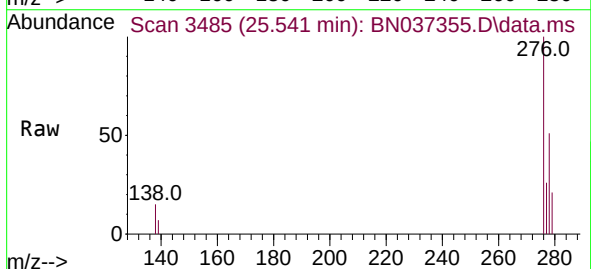
Tgt Ion:276 Resp: 8379

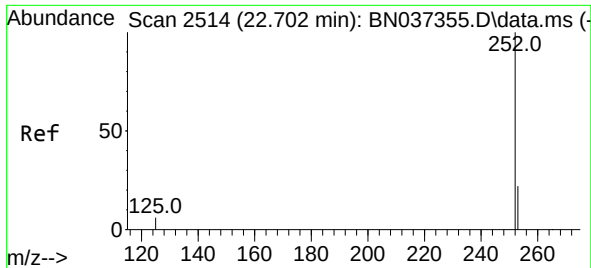
Ion Ratio Lower Upper

276 100

138 11.3 2.2 3.2#

277 23.4 17.1 25.7

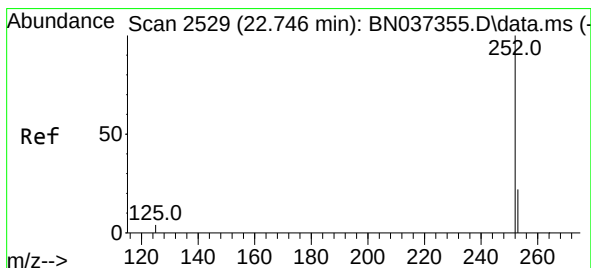
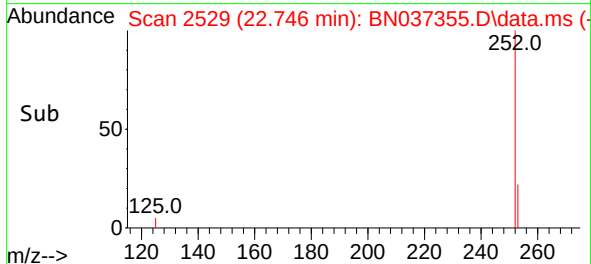
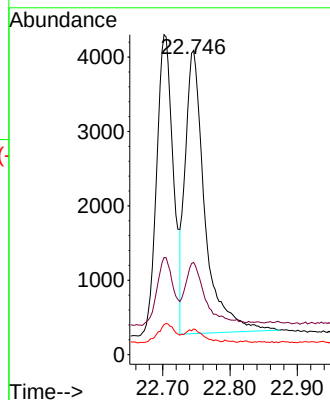
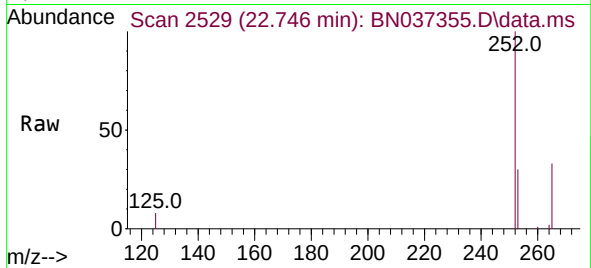




#37
Benzo(b)fluoranthene
Concen: 0.442 ng
RT: 22.746 min Scan# 2529
Delta R.T. 0.044 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

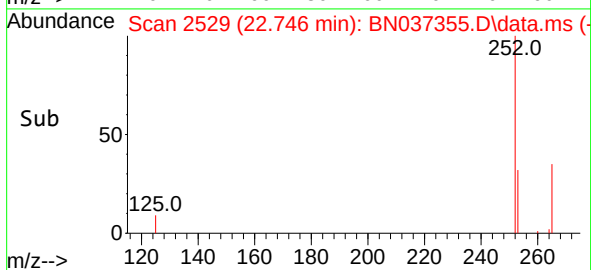
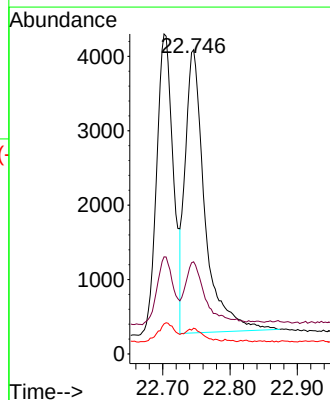
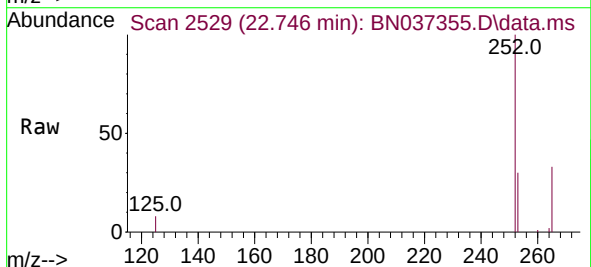
Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

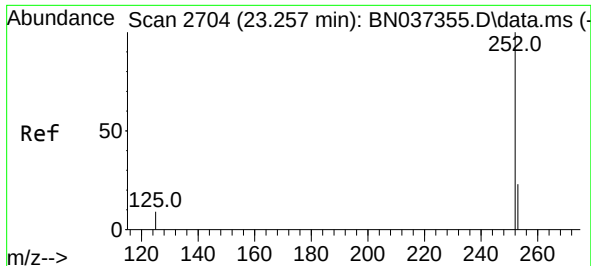
Tgt Ion:252 Resp: 7755
Ion Ratio Lower Upper
252 100
253 30.3 26.6 40.0
125 8.5 6.1 9.1



#38
Benzo(k)fluoranthene
Concen: 0.407 ng
RT: 22.746 min Scan# 2529
Delta R.T. 0.000 min
Lab File: BN037355.D
Acq: 20 Jun 2025 18:03

Tgt Ion:252 Resp: 7755
Ion Ratio Lower Upper
252 100
253 30.3 26.7 40.1
125 8.5 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.393 ng

RT: 23.257 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

Instrument :

BNA_N

ClientSampleId :

SSTDICCC0.4

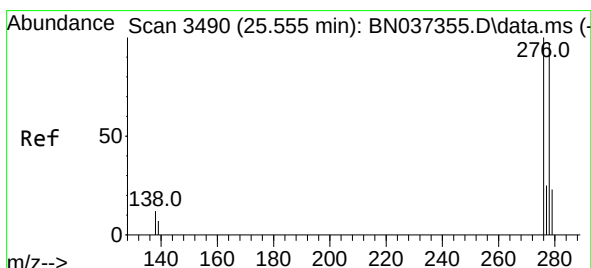
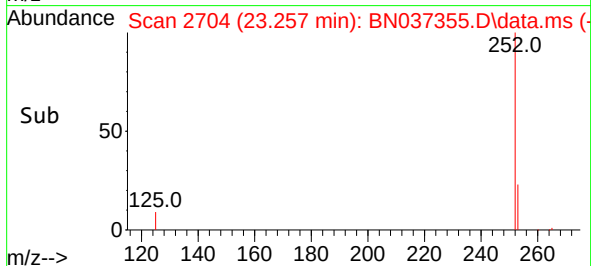
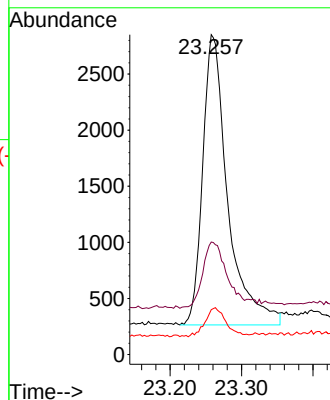
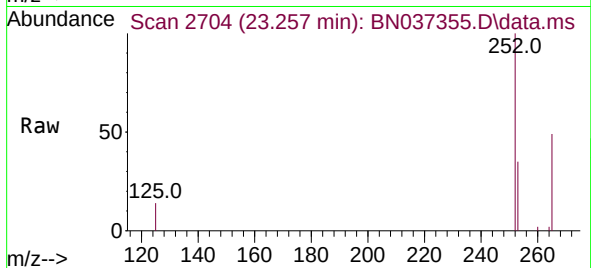
Tgt Ion:252 Resp: 6298

Ion Ratio Lower Upper

252 100

253 35.2 31.6 47.4

125 14.0 8.4 12.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.366 ng

RT: 25.555 min Scan# 3490

Delta R.T. 0.000 min

Lab File: BN037355.D

Acq: 20 Jun 2025 18:03

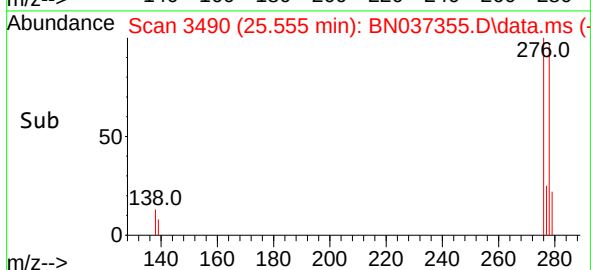
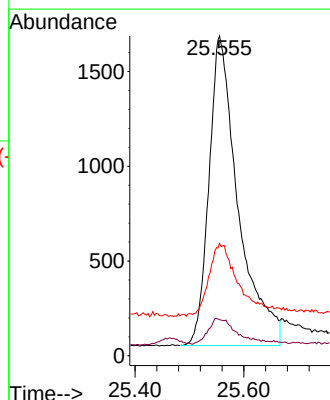
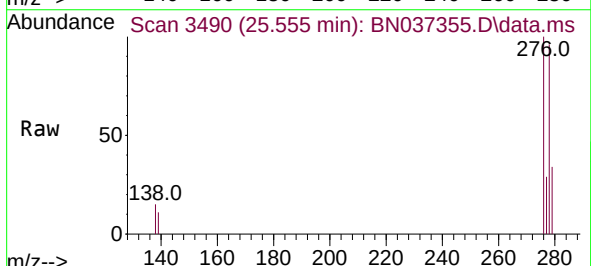
Tgt Ion:278 Resp: 6108

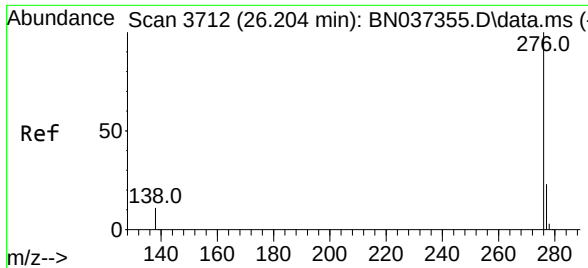
Ion Ratio Lower Upper

278 100

139 11.3 10.2 15.4

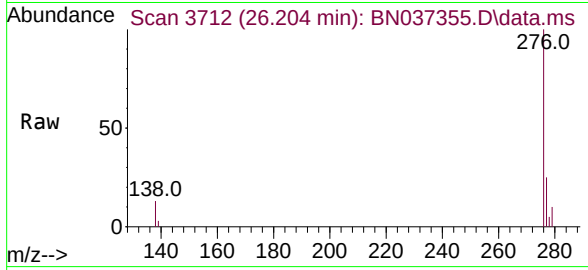
279 35.1 35.6 53.4#



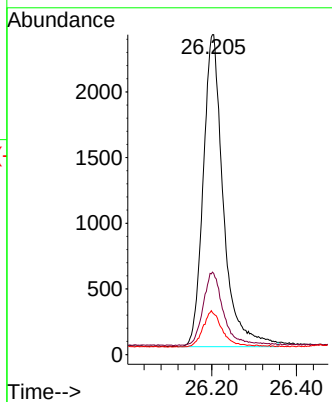
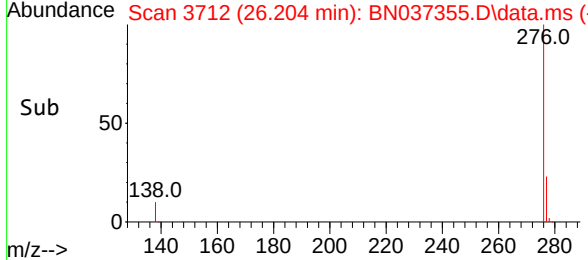


#41
 Benzo(g,h,i)perylene
 Concen: 0.408 ng
 RT: 26.204 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: BN037355.D
 Acq: 20 Jun 2025 18:03

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICCC0.4



Tgt Ion:	276	Resp:	7852
Ion Ratio	Lower	Upper	
276	100		
277	25.4	22.7	34.1
138	12.7	9.4	14.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037360.D
 Acq On : 20 Jun 2025 21:39
 Operator : RC/JU
 Sample : SSTDICV0.4
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 ICVBN062125

Quant Time: Jun 20 23:48:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:41:54 2025
 Response via : Initial Calibration

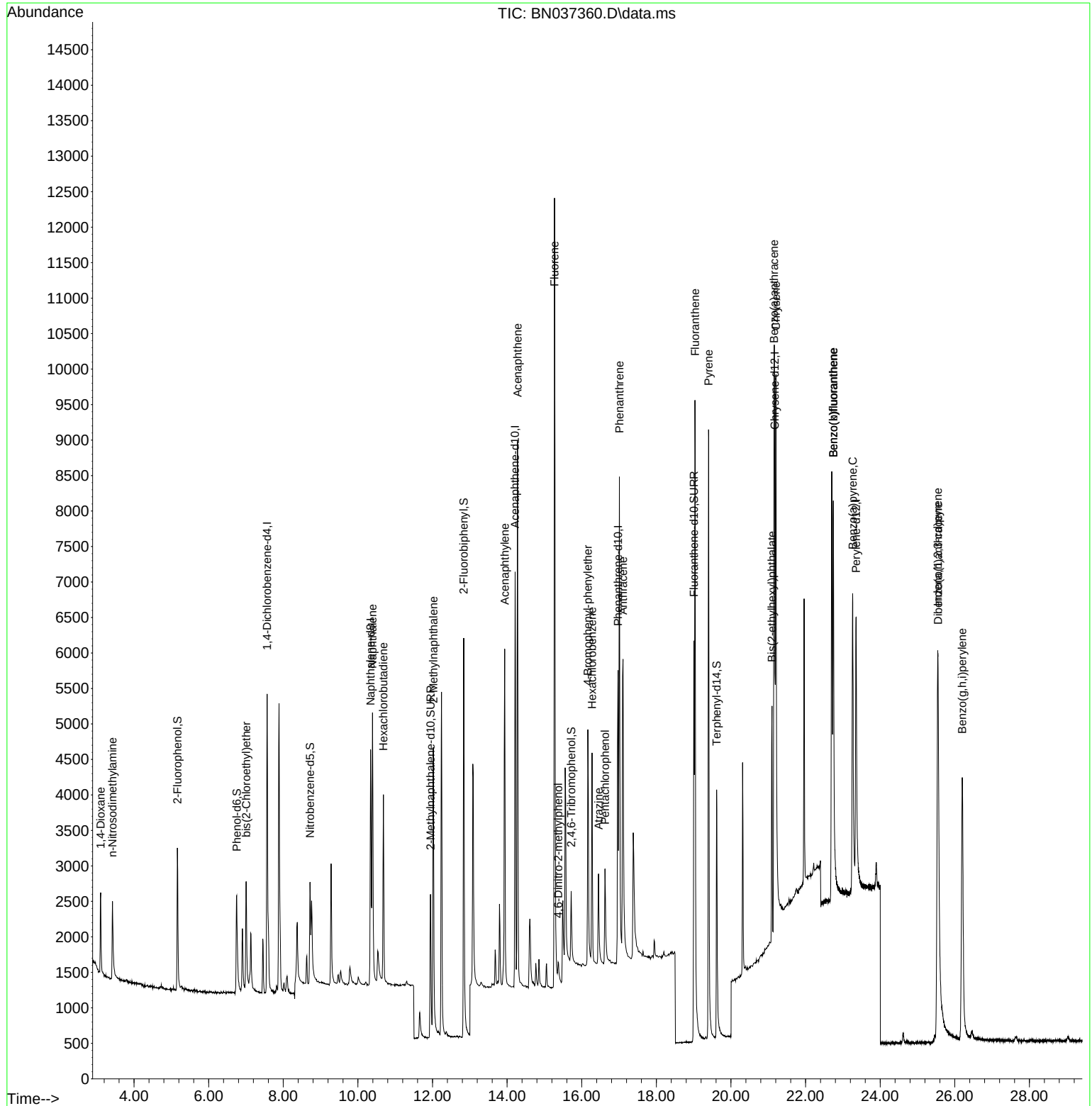
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	2309	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	5064	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	3457	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	7065	0.400	ng	# 0.00
29) Chrysene-d12	21.171	240	5560	0.400	ng	# 0.00
35) Perylene-d12	23.354	264	5756	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	1841	0.399	ng	0.00
5) Phenol-d6	6.752	99	1797	0.378	ng	0.00
8) Nitrobenzene-d5	8.717	82	1658	0.405	ng	0.00
11) 2-Methylnaphthalene-d10	11.945	152	3394	0.414	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	756	0.373	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	6049	0.398	ng	0.00
27) Fluoranthene-d10	19.008	212	7940	0.392	ng	0.00
31) Terphenyl-d14	19.616	244	5266	0.416	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.104	88	942	0.401	ng	91
3) n-Nitrosodimethylamine	3.422	42	845	0.393	ng	# 70
6) bis(2-Chloroethyl)ether	7.004	93	1718	0.407	ng	93
9) Naphthalene	10.394	128	5338	0.399	ng	# 89
10) Hexachlorobutadiene	10.682	225	2157	0.409	ng	# 99
12) 2-Methylnaphthalene	12.021	142	3620	0.388	ng	# 91
16) Acenaphthylene	13.935	152	5463	0.376	ng	98
17) Acenaphthene	14.277	154	3720	0.389	ng	99
18) Fluorene	15.272	166	5193	0.386	ng	99
20) 4,6-Dinitro-2-methylph...	15.368	198	491	0.289	ng	92
21) 4-Bromophenyl-phenylether	16.165	248	1905	0.379	ng	# 84
22) Hexachlorobenzene	16.276	284	2222	0.406	ng	98
23) Atrazine	16.450	200	1453	0.362	ng	# 84
24) Pentachlorophenol	16.624	266	881	0.323	ng	97
25) Phenanthrene	17.009	178	7743	0.378	ng	99
26) Anthracene	17.108	178	6739	0.357	ng	99
28) Fluoranthene	19.036	202	9535	0.369	ng	# 99
30) Pyrene	19.398	202	9570	0.424	ng	100
32) Benzo(a)anthracene	21.153	228	6805	0.372	ng	99
33) Chrysene	21.207	228	9119	0.412	ng	98
34) Bis(2-ethylhexyl)phtha...	21.099	149	3022	0.403	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.541	276	9492	0.368	ng	# 92
37) Benzo(b)fluoranthene	22.746	252	9472	0.447	ng	95
38) Benzo(k)fluoranthene	22.746	252	9472	0.412	ng	95
39) Benzo(a)pyrene	23.260	252	7258	0.382	ng	# 89
40) Dibenzo(a,h)anthracene	25.553	278	7116	0.367	ng	# 87
41) Benzo(g,h,i)perylene	26.199	276	8707	0.378	ng	95

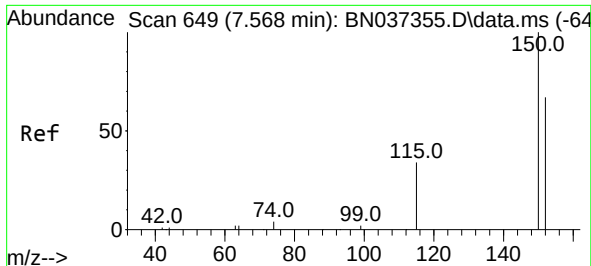
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037360.D
Acq On : 20 Jun 2025 21:39
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN062125

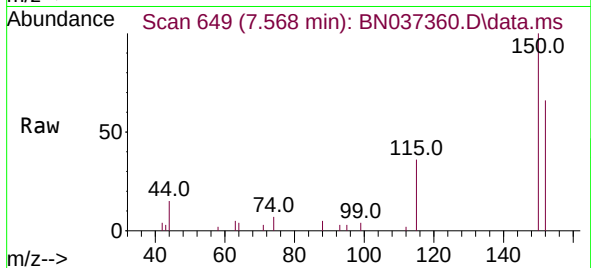
Quant Time: Jun 20 23:48:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration



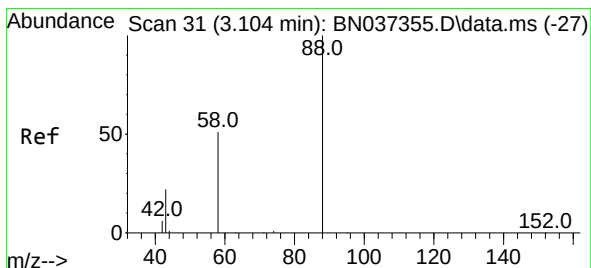
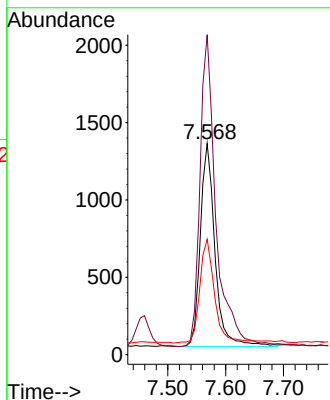
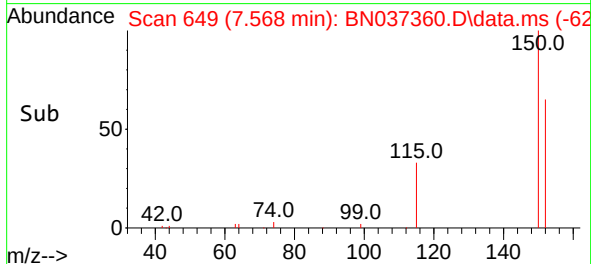


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.568 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

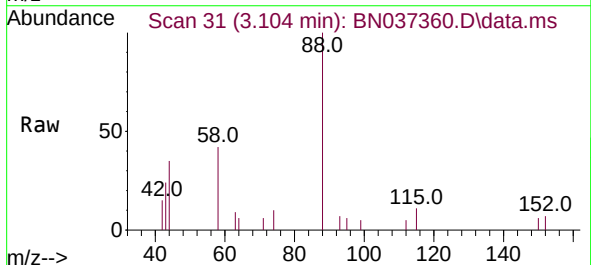
Instrument :
BNA_N
ClientSampleId :
ICVBN062125



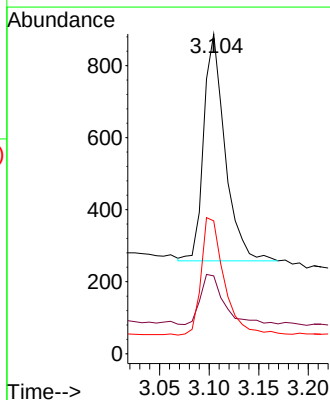
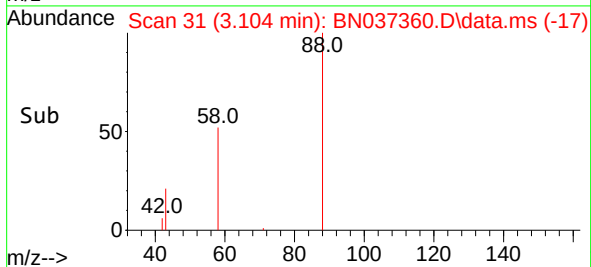
Tgt Ion:152 Resp: 2309
Ion Ratio Lower Upper
152 100
150 151.6 112.7 169.1
115 54.6 45.9 68.9

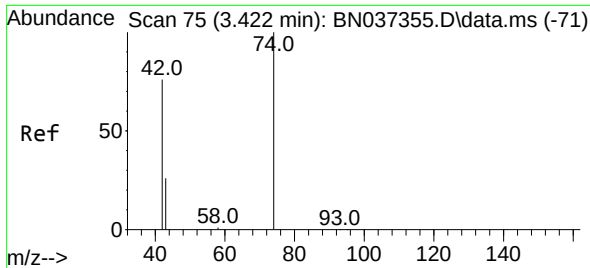


#2
1,4-Dioxane
Concen: 0.401 ng
RT: 3.104 min Scan# 31
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39



Tgt Ion: 88 Resp: 942
Ion Ratio Lower Upper
88 100
43 24.5 21.0 31.6
58 55.4 38.0 57.0

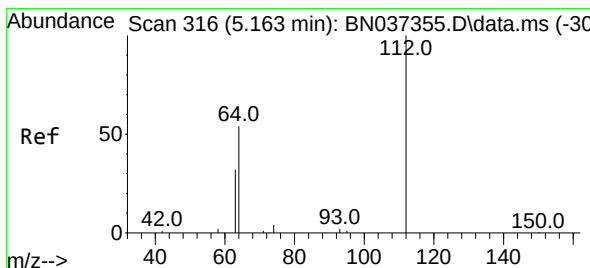
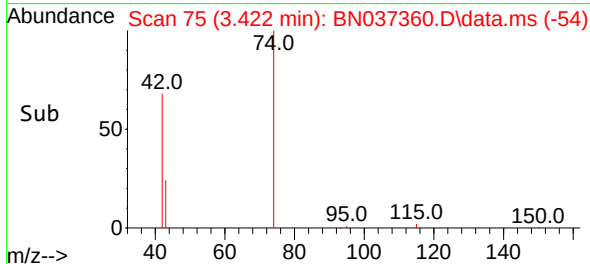
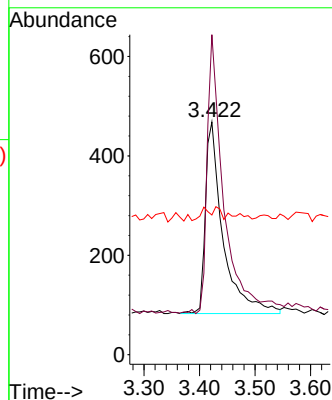
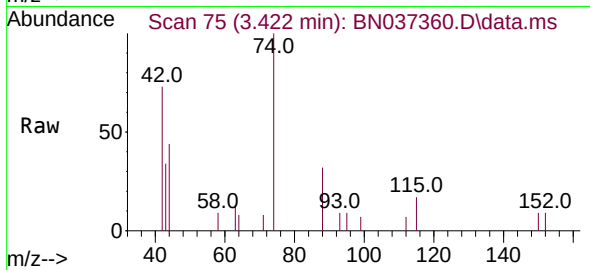




#3
 n-Nitrosodimethylamine
 Concen: 0.393 ng
 RT: 3.422 min Scan# 75
 Delta R.T. 0.000 min
 Lab File: BN037360.D
 Acq: 20 Jun 2025 21:39

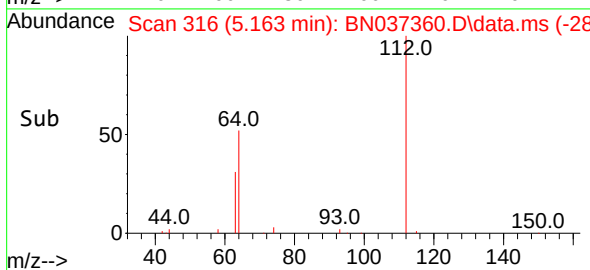
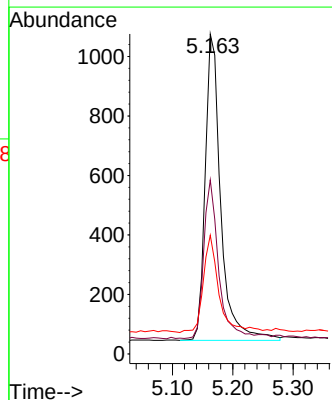
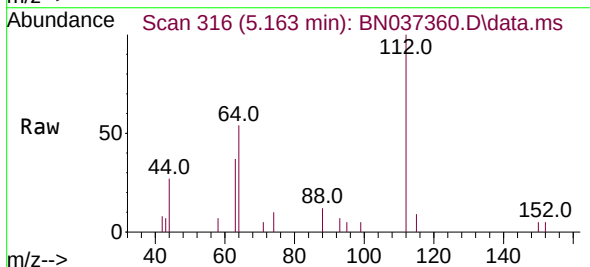
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN062125

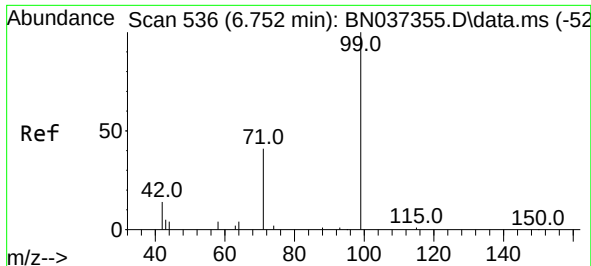
Tgt Ion:	42	Resp:	845
Ion	Ratio	Lower	Upper
42	100		
74	137.3	84.3	126.5#
44	2.5	5.0	7.4#



#4
 2-Fluorophenol
 Concen: 0.399 ng
 RT: 5.163 min Scan# 316
 Delta R.T. 0.000 min
 Lab File: BN037360.D
 Acq: 20 Jun 2025 21:39

Tgt Ion:	112	Resp:	1841
Ion	Ratio	Lower	Upper
112	100		
64	50.3	38.7	58.1
63	31.9	26.4	39.6

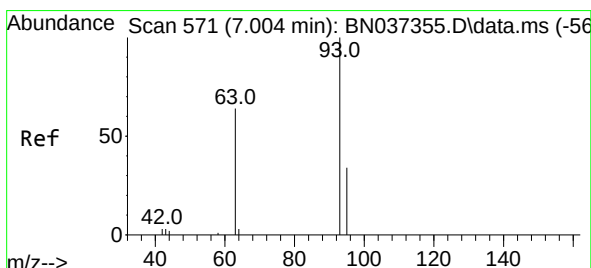
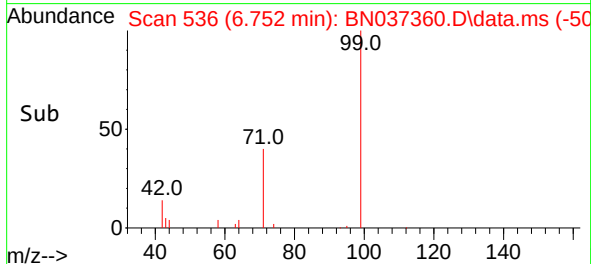
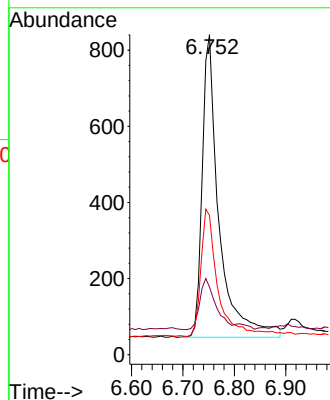
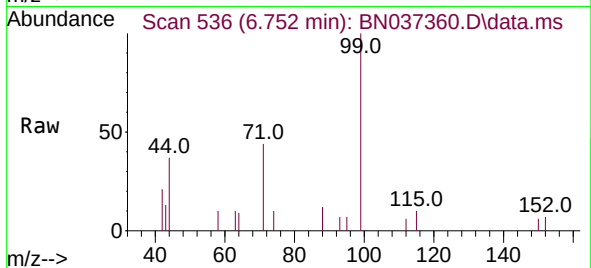




#5
Phenol-d6
Concen: 0.378 ng
RT: 6.752 min Scan# 536
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

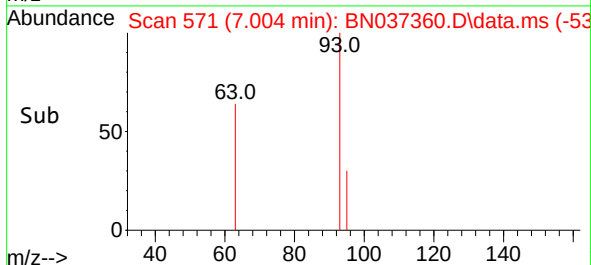
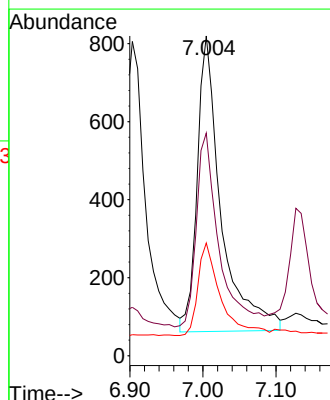
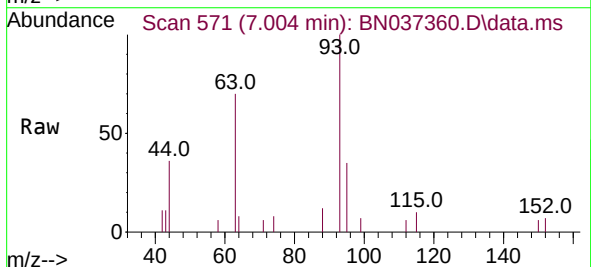
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

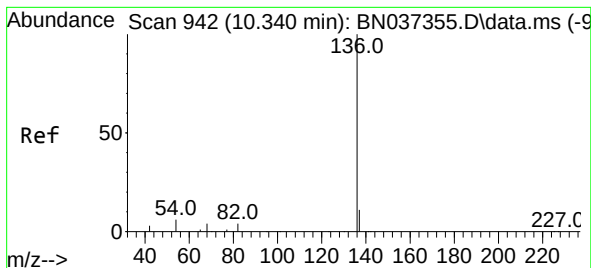
Tgt Ion: 99 Resp: 1797
Ion Ratio Lower Upper
99 100
42 15.9 19.8 29.8#
71 43.3 42.6 64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.407 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion: 93 Resp: 1718
Ion Ratio Lower Upper
93 100
63 61.8 53.2 79.8
95 29.5 27.3 40.9





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.340 min Scan# 94

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125

Tgt Ion:136 Resp: 5064

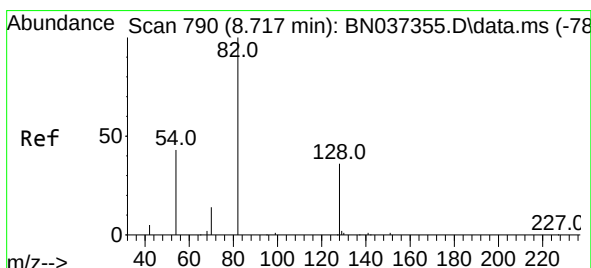
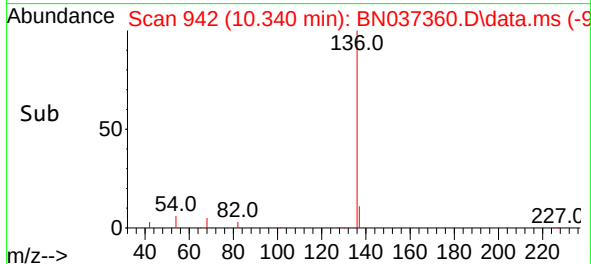
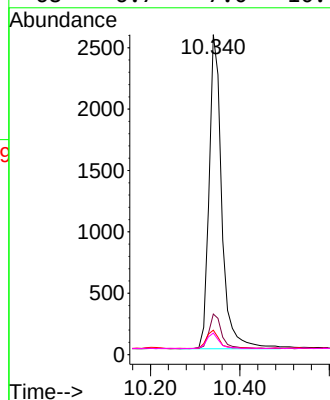
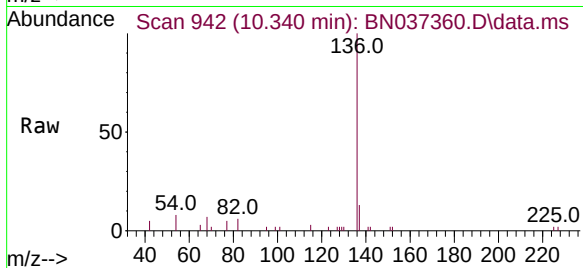
Ion Ratio Lower Upper

136 100

137 12.7 12.2 18.2

54 7.6 8.8 13.2#

68 6.7 7.0 10.4#



#8

Nitrobenzene-d5

Concen: 0.405 ng

RT: 8.717 min Scan# 790

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

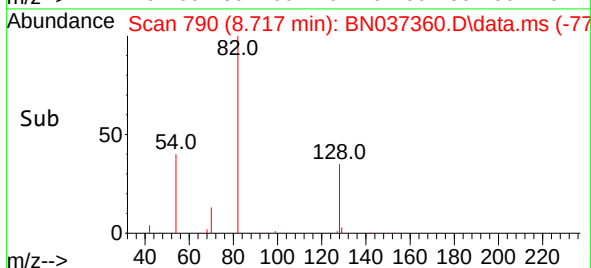
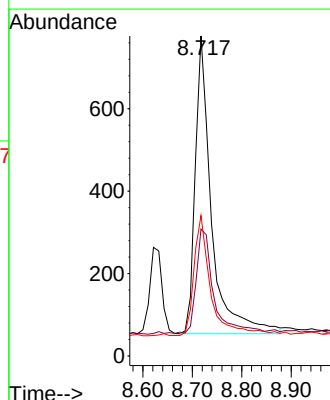
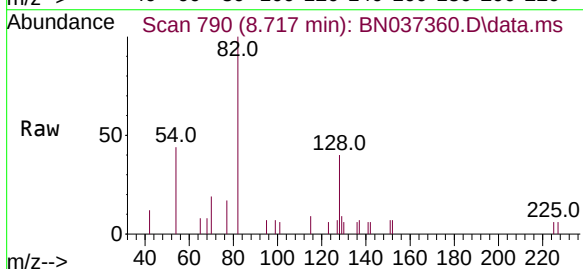
Tgt Ion: 82 Resp: 1658

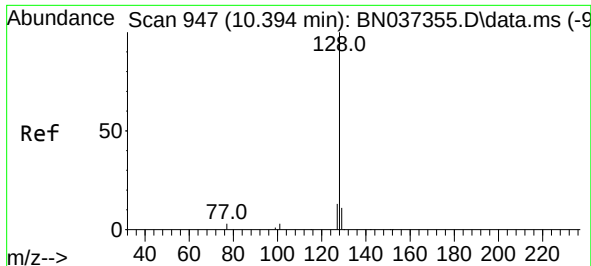
Ion Ratio Lower Upper

82 100

128 39.6 42.5 63.7#

54 43.9 43.2 64.8

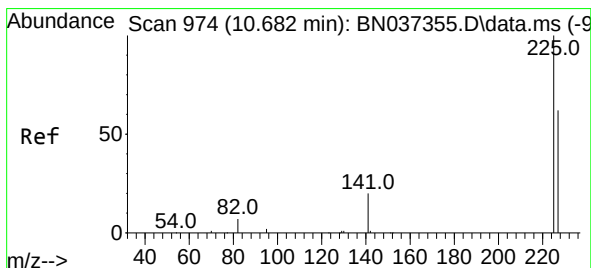
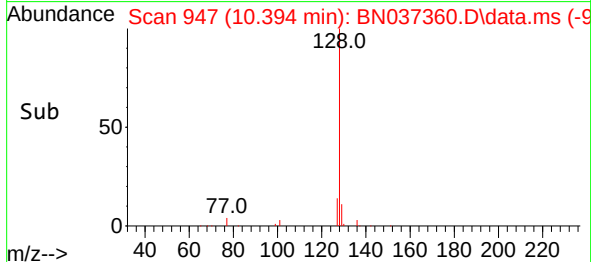
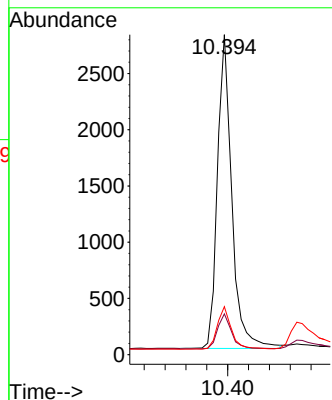
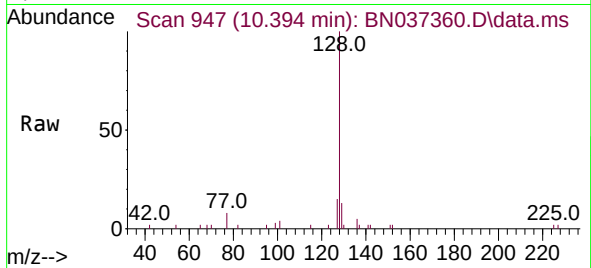




#9
Naphthalene
Concen: 0.399 ng
RT: 10.394 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

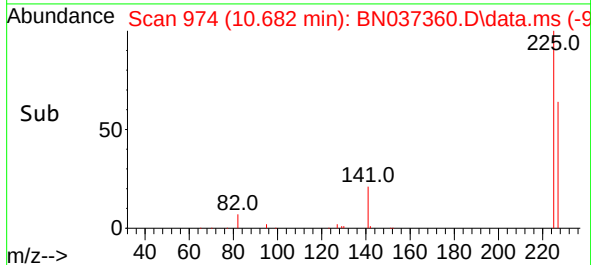
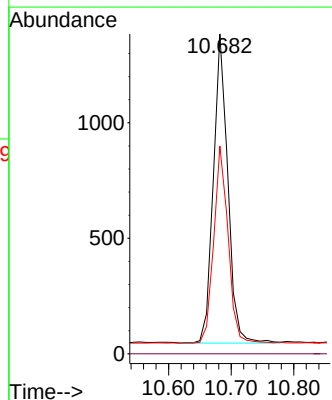
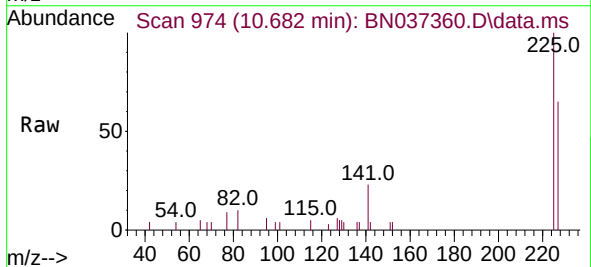
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

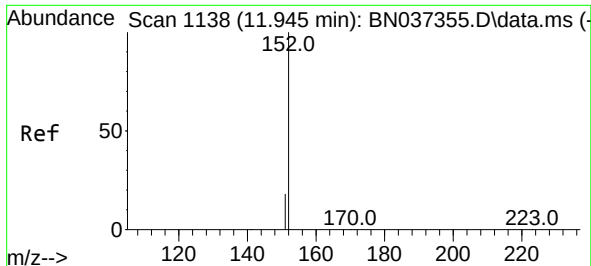
Tgt Ion:128 Resp: 5338
Ion Ratio Lower Upper
128 100
129 12.7 14.0 21.0#
127 15.0 15.8 23.8#



#10
Hexachlorobutadiene
Concen: 0.409 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:225 Resp: 2157
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 63.3 50.3 75.5

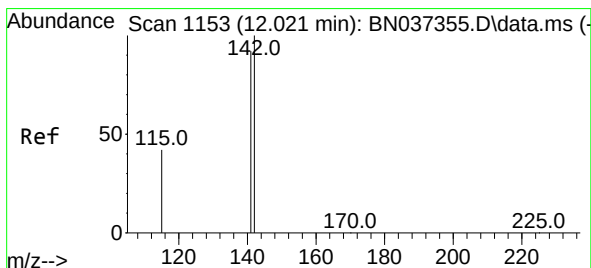
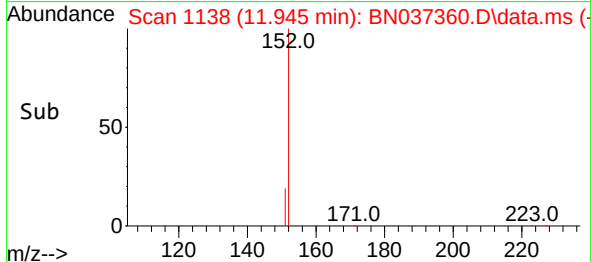
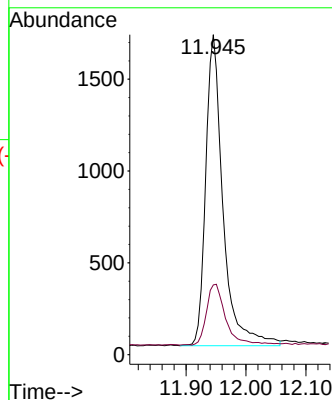
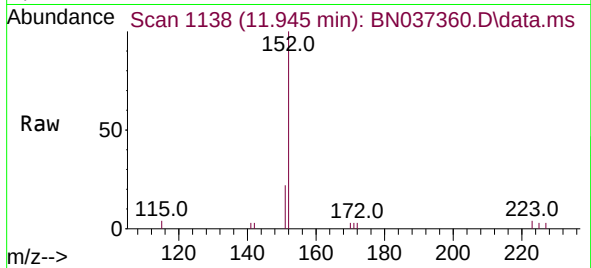




#11
2-Methylnaphthalene-d10
Concen: 0.414 ng
RT: 11.945 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

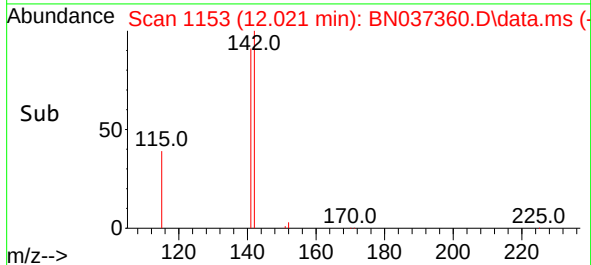
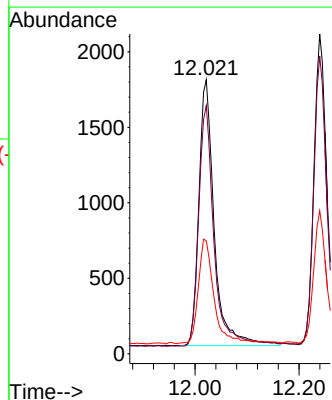
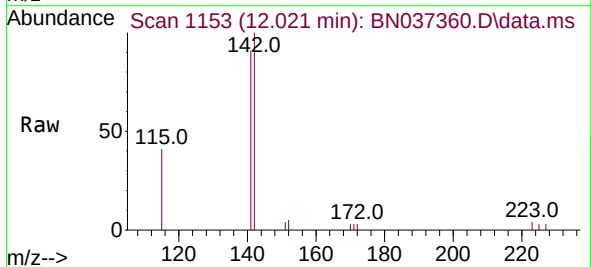
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

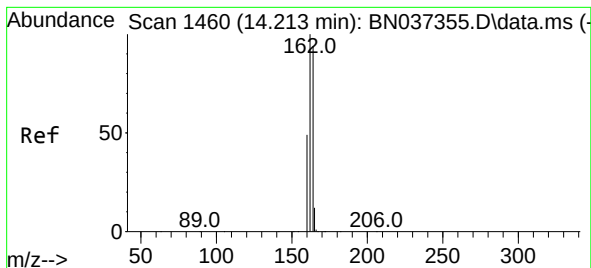
Tgt Ion:152 Resp: 3394
Ion Ratio Lower Upper
152 100
151 22.0 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.388 ng
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:142 Resp: 3620
Ion Ratio Lower Upper
142 100
141 90.6 70.2 105.2
115 41.2 43.0 64.4#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.213 min Scan# 1460

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125

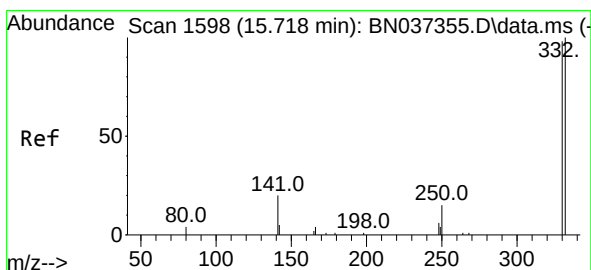
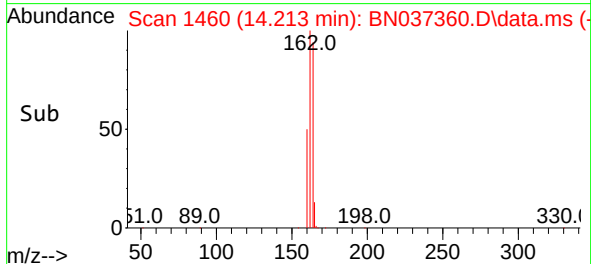
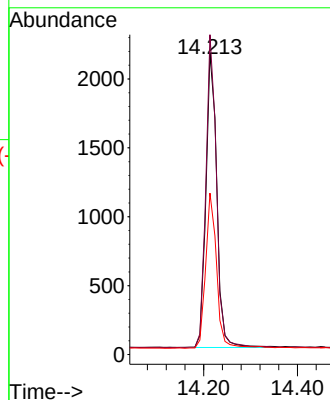
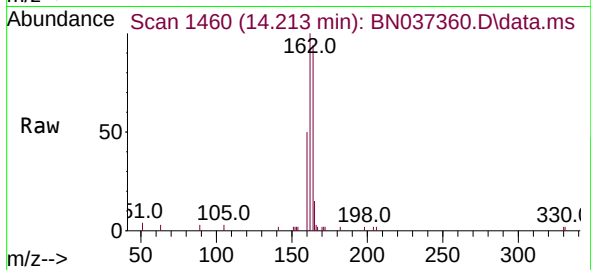
Tgt Ion:164 Resp: 3457

Ion Ratio Lower Upper

164 100

162 106.3 81.5 122.3

160 53.6 43.0 64.4



#14

2,4,6-Tribromophenol

Concen: 0.373 ng

RT: 15.718 min Scan# 1598

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

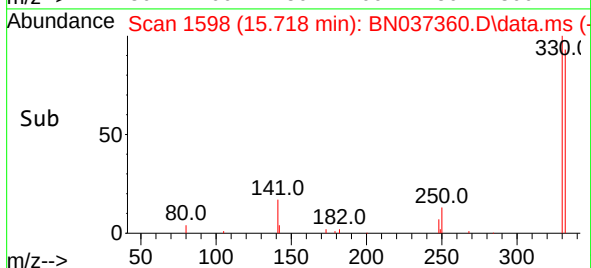
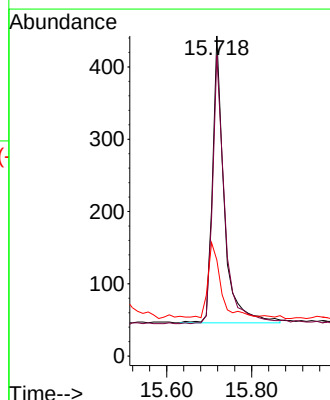
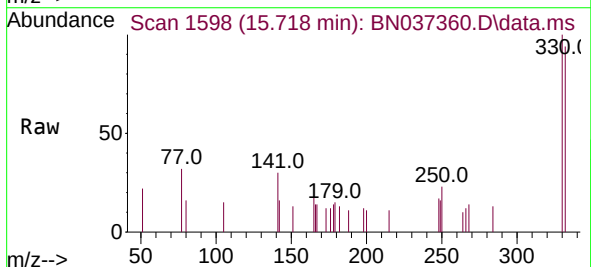
Tgt Ion:330 Resp: 756

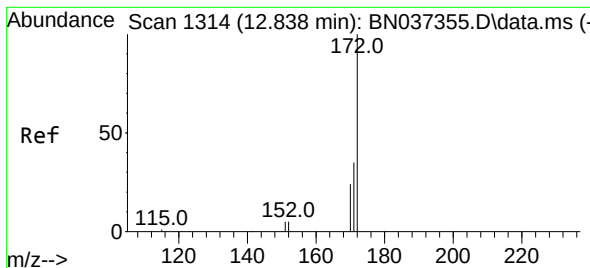
Ion Ratio Lower Upper

330 100

332 96.7 78.4 117.6

141 28.0 24.4 36.6





#15

2-Fluorobiphenyl

Concen: 0.398 ng

RT: 12.838 min Scan# 1314

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125

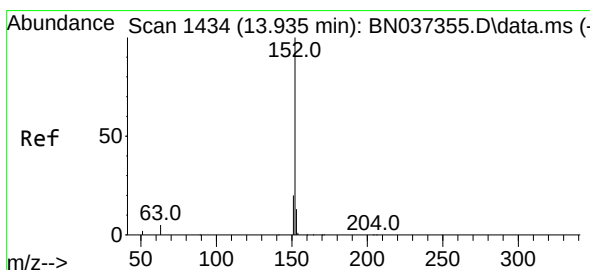
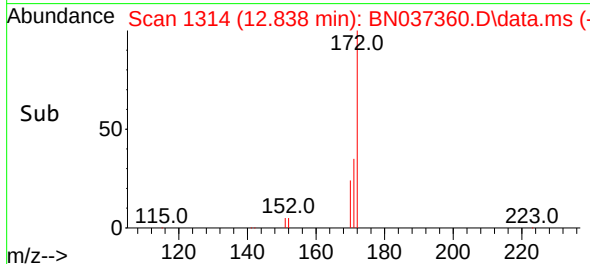
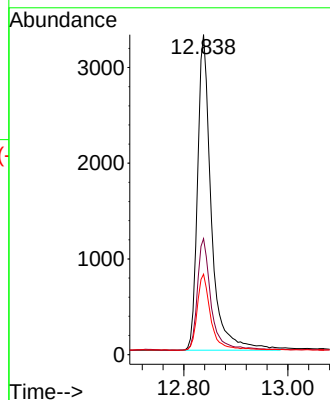
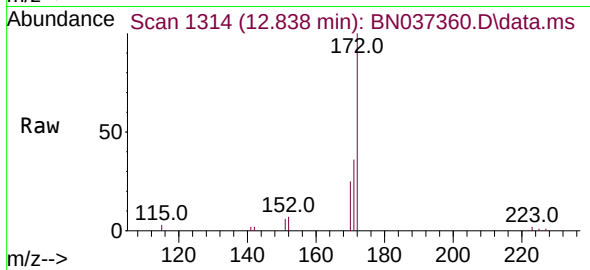
Tgt Ion:172 Resp: 6049

Ion Ratio Lower Upper

172 100

171 36.2 30.8 46.2

170 25.1 21.9 32.9



#16

Acenaphthylene

Concen: 0.376 ng

RT: 13.935 min Scan# 1434

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

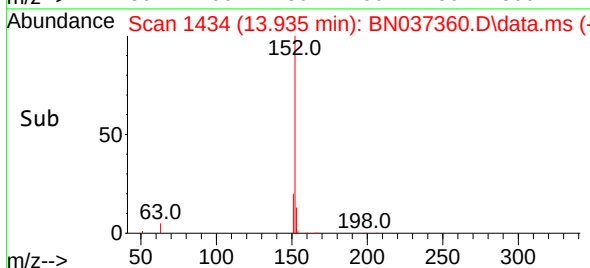
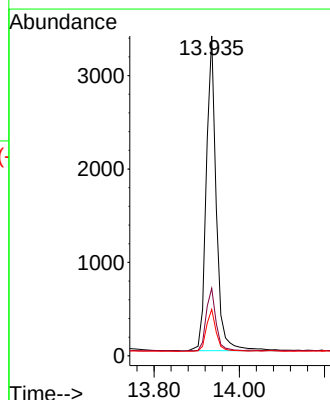
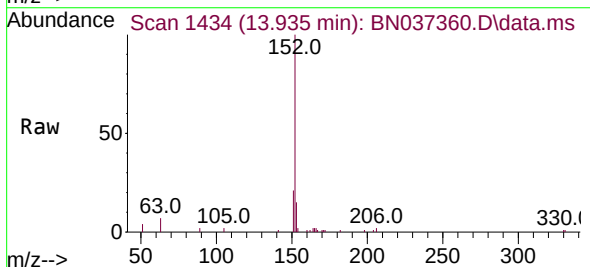
Tgt Ion:152 Resp: 5463

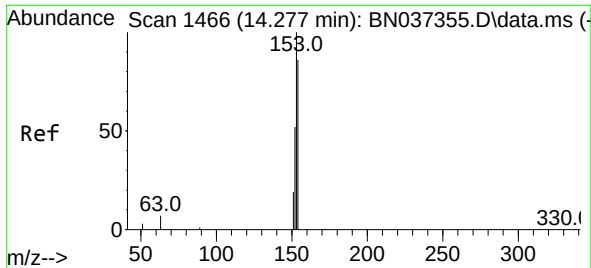
Ion Ratio Lower Upper

152 100

151 19.8 16.6 24.8

153 13.3 10.2 15.2

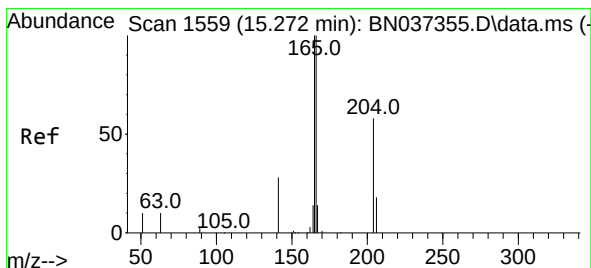
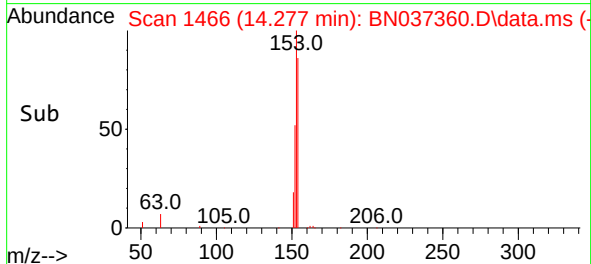
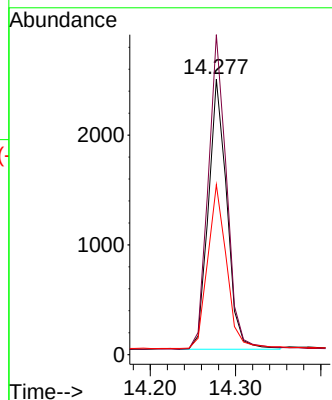
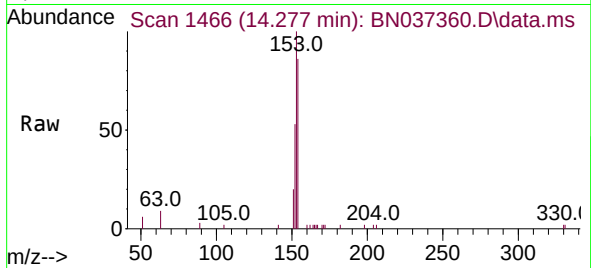




#17
Acenaphthene
Concen: 0.389 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

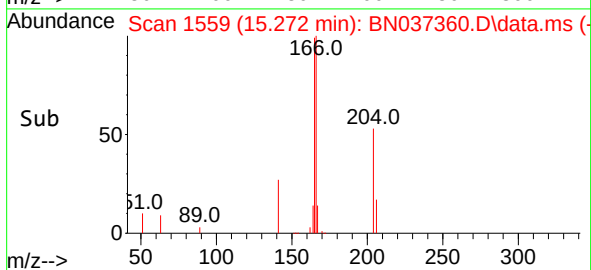
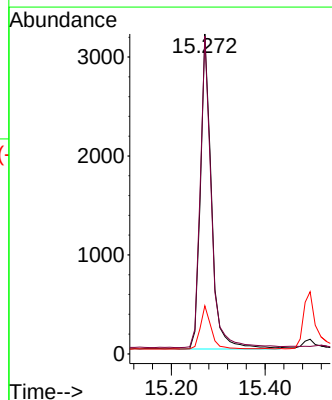
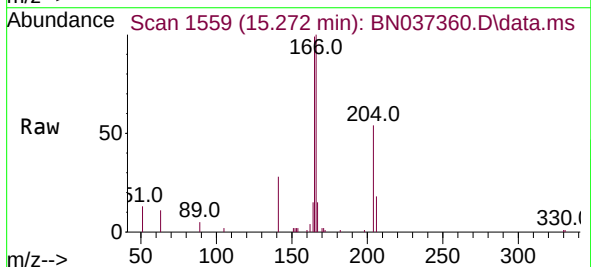
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

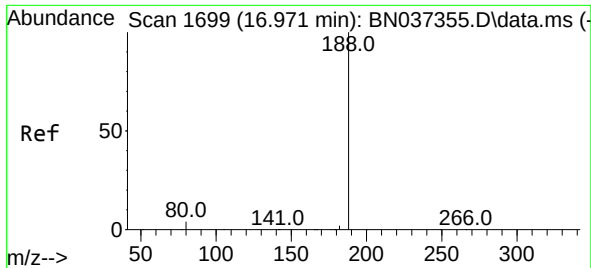
Tgt Ion	Ratio	Lower	Upper
154	100		
153	117.1	93.1	139.7
152	62.3	48.6	73.0



#18
Fluorene
Concen: 0.386 ng
RT: 15.272 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.5	119.3
167	13.4	10.7	16.1

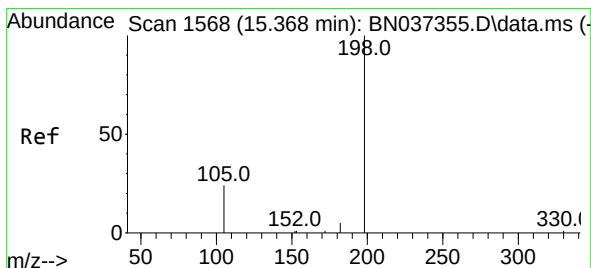
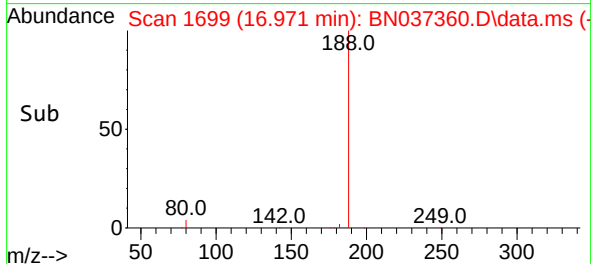
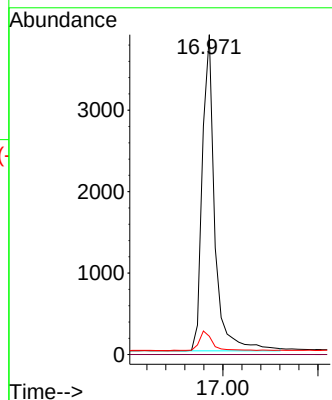
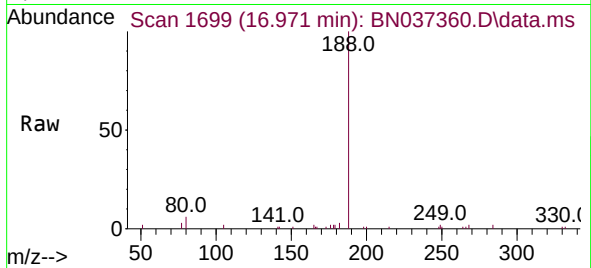




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

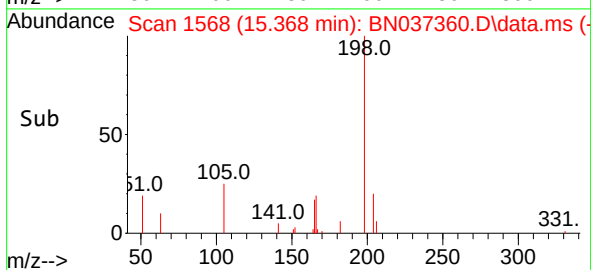
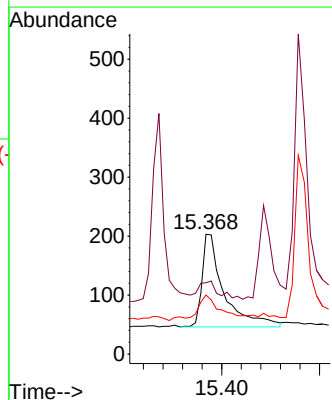
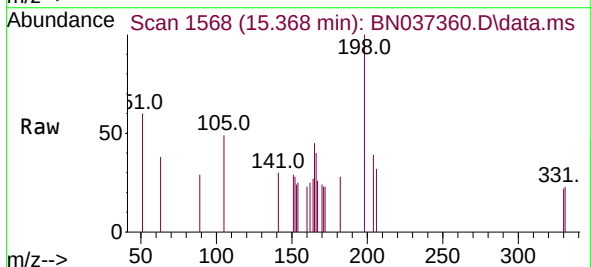
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

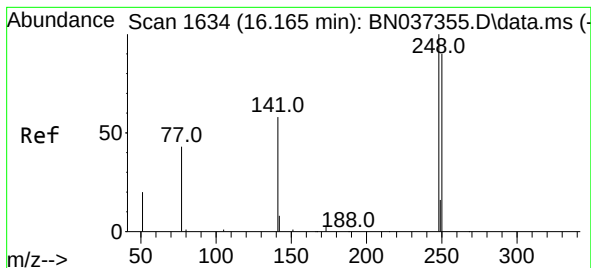
Tgt Ion:188 Resp: 7065
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 5.7 6.2 9.2#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.289 ng
RT: 15.368 min Scan# 1568
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:198 Resp: 491
Ion Ratio Lower Upper
198 100
51 59.6 51.4 77.0
105 49.3 45.5 68.3

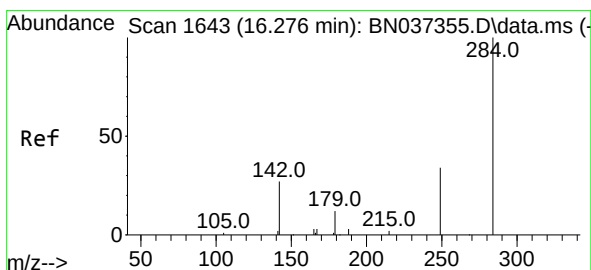
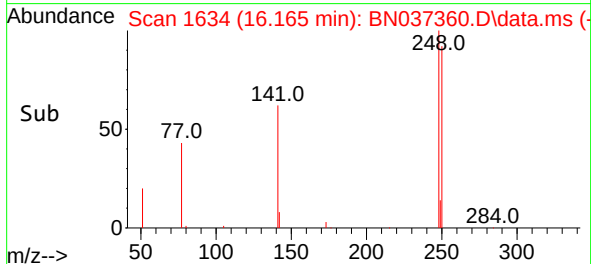
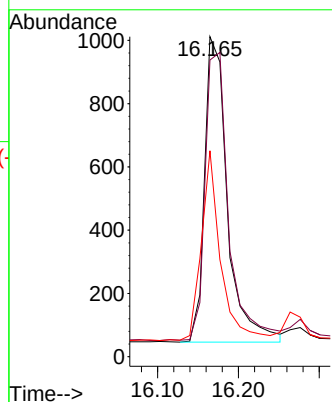
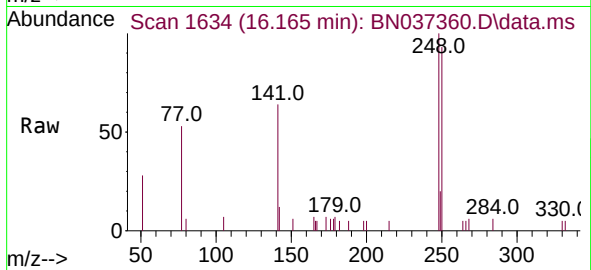




#21
4-Bromophenyl-phenylether
Concen: 0.379 ng
RT: 16.165 min Scan# 1634
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

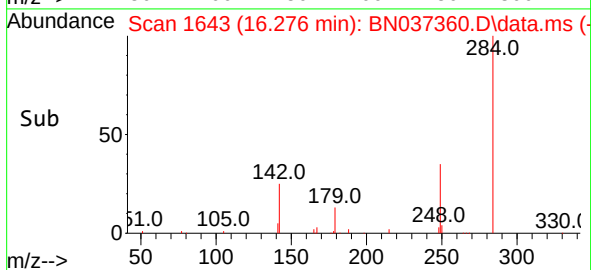
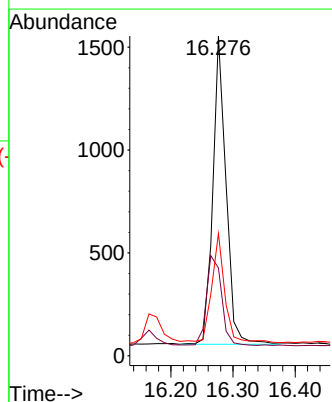
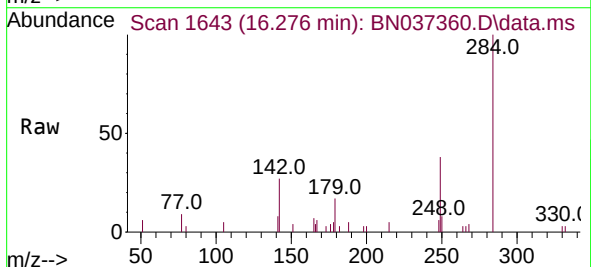
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

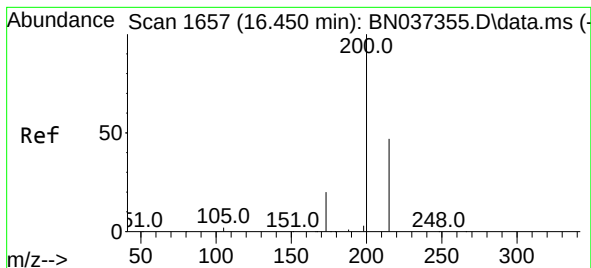
Tgt Ion:248 Resp: 1905
Ion Ratio Lower Upper
248 100
250 92.7 80.4 120.6
141 64.3 33.3 49.9#



#22
Hexachlorobenzene
Concen: 0.406 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:284 Resp: 2222
Ion Ratio Lower Upper
284 100
142 33.0 27.0 40.6
249 35.0 28.8 43.2





#23

Atrazine

Concen: 0.362 ng

RT: 16.450 min Scan# 1657

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125

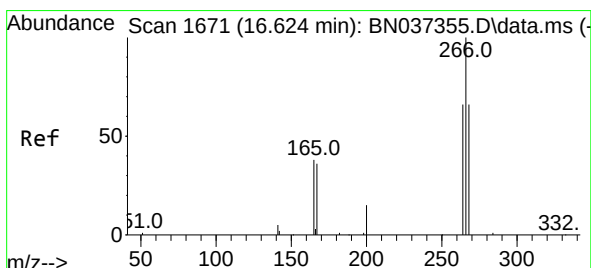
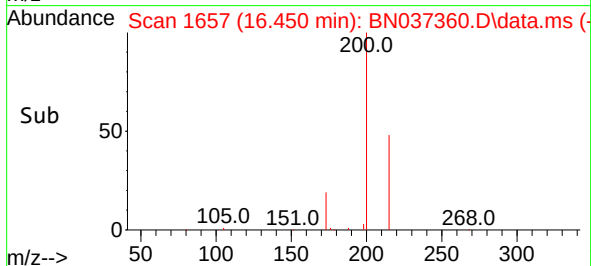
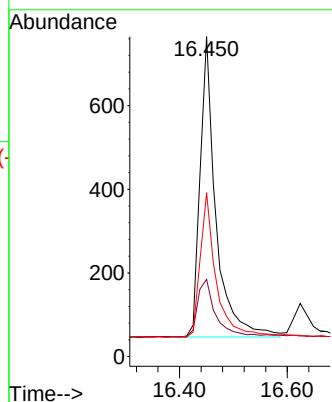
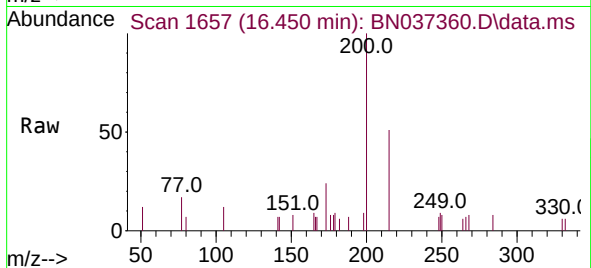
Tgt Ion:200 Resp: 1453

Ion Ratio Lower Upper

200 100

173 24.2 29.2 43.8#

215 51.2 48.8 73.2



#24

Pentachlorophenol

Concen: 0.323 ng

RT: 16.624 min Scan# 1671

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

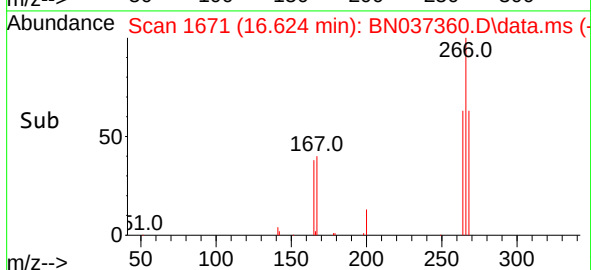
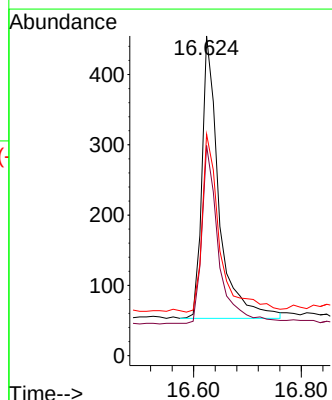
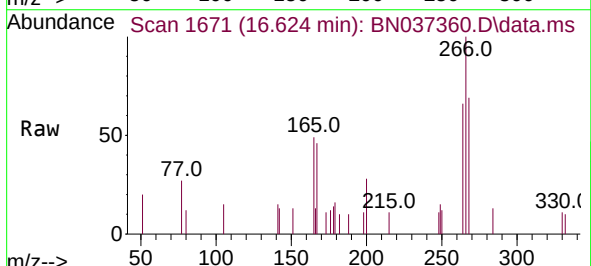
Tgt Ion:266 Resp: 881

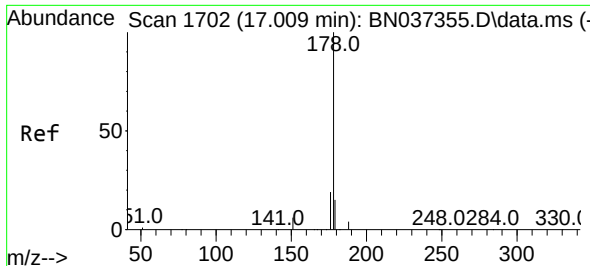
Ion Ratio Lower Upper

266 100

264 63.5 50.3 75.5

268 65.0 55.3 82.9

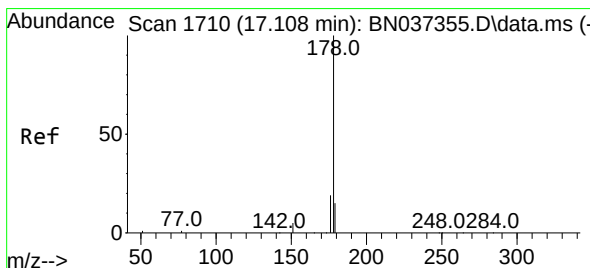
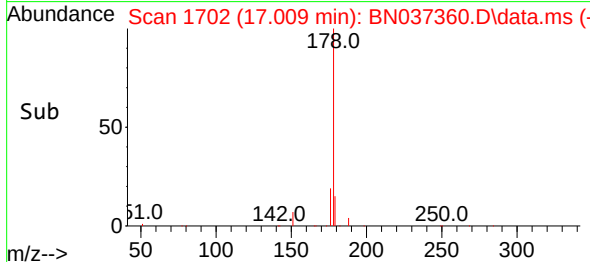
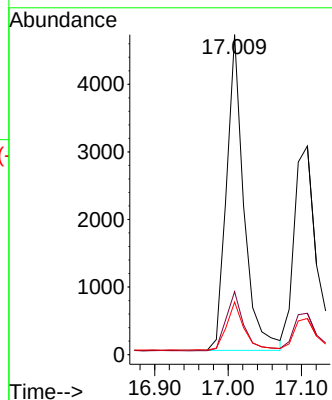
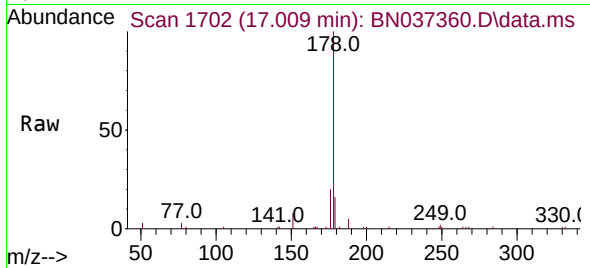




#25
 Phenanthrene
 Concen: 0.378 ng
 RT: 17.009 min Scan# 1702
 Delta R.T. 0.000 min
 Lab File: BN037360.D
 Acq: 20 Jun 2025 21:39

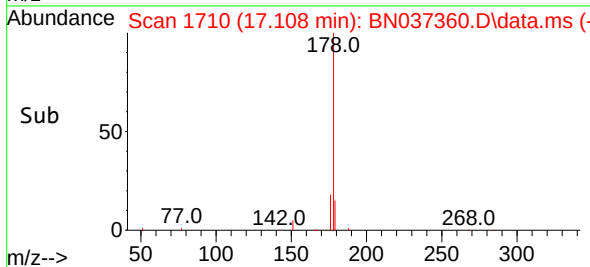
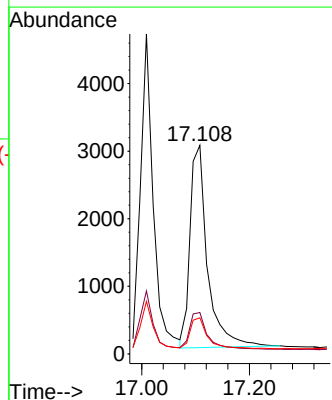
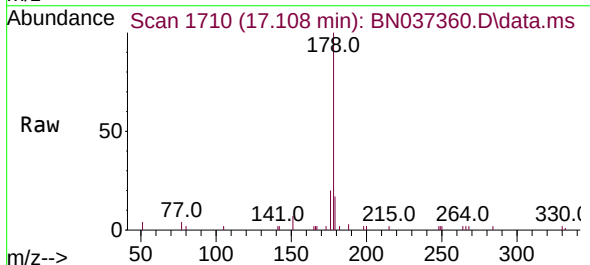
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN062125

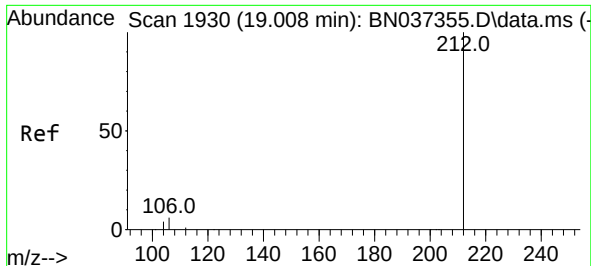
Tgt Ion:	178	Resp:	7743
Ion Ratio	Lower	Upper	
178	100		
176	19.3	15.2	22.8
179	15.5	12.9	19.3



#26
 Anthracene
 Concen: 0.357 ng
 RT: 17.108 min Scan# 1710
 Delta R.T. 0.000 min
 Lab File: BN037360.D
 Acq: 20 Jun 2025 21:39

Tgt Ion:	178	Resp:	6739
Ion Ratio	Lower	Upper	
178	100		
176	19.0	14.7	22.1
179	15.7	13.0	19.6

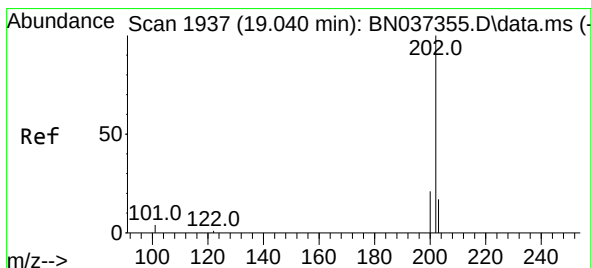
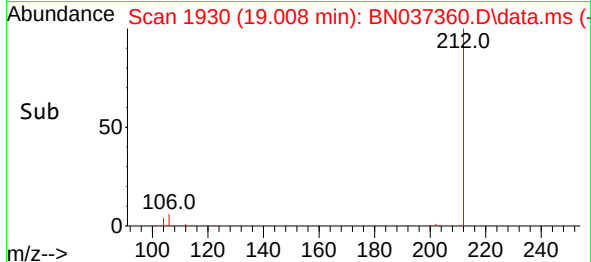
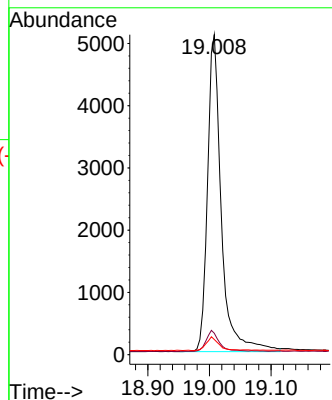
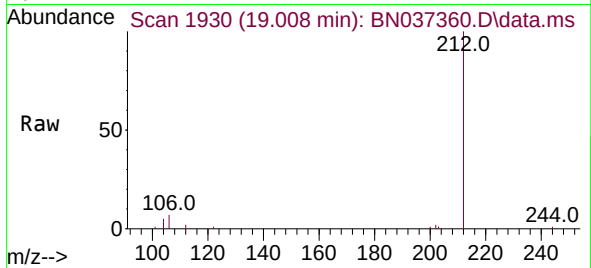




#27
Fluoranthene-d10
Concen: 0.392 ng
RT: 19.008 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

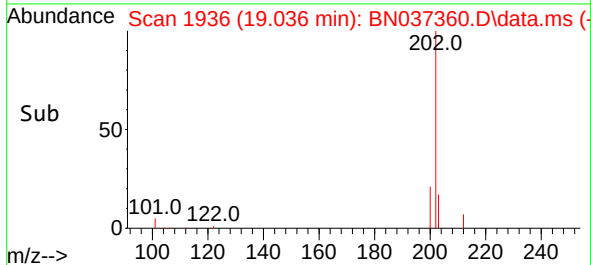
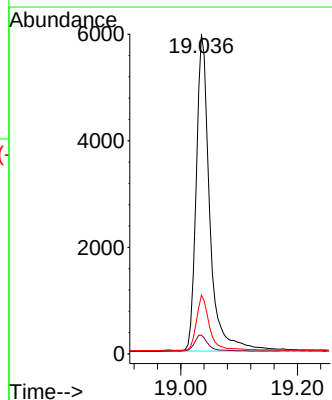
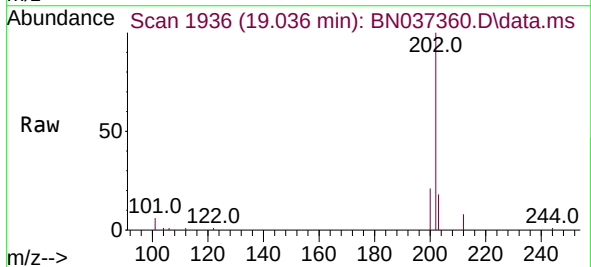
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

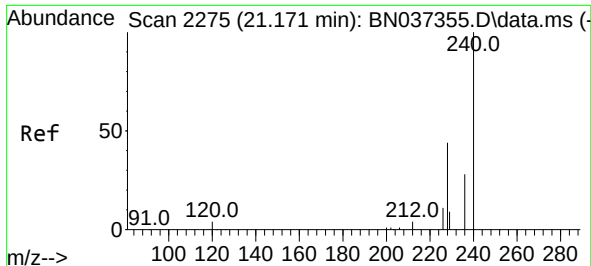
Tgt Ion:212 Resp: 7940
Ion Ratio Lower Upper
212 100
106 6.2 3.0 4.4#
104 3.9 2.0 3.0#



#28
Fluoranthene
Concen: 0.369 ng
RT: 19.036 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:202 Resp: 9535
Ion Ratio Lower Upper
202 100
101 5.3 3.0 4.6#
203 16.8 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125

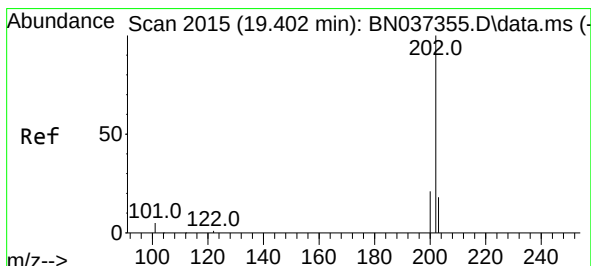
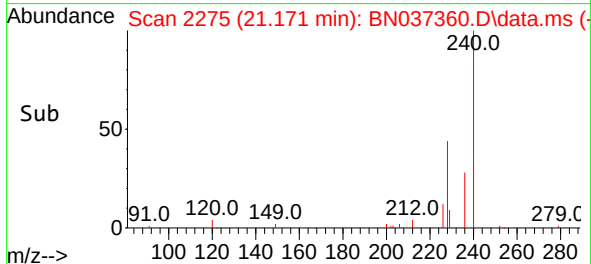
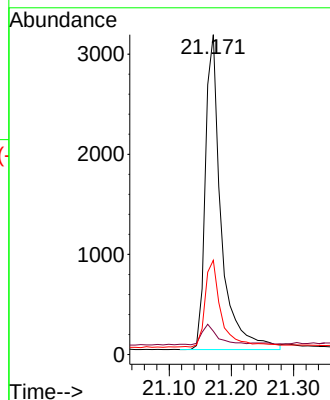
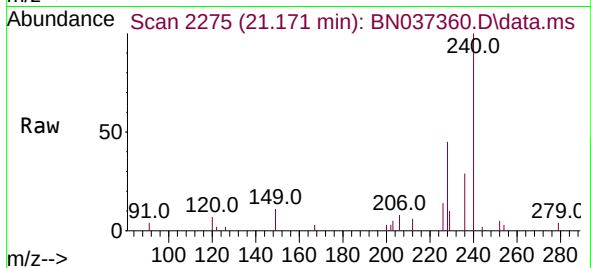
Tgt Ion:240 Resp: 5560

Ion Ratio Lower Upper

240 100

120 7.3 7.5 11.3#

236 29.5 24.9 37.3



#30

Pyrene

Concen: 0.424 ng

RT: 19.398 min Scan# 2014

Delta R.T. -0.005 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

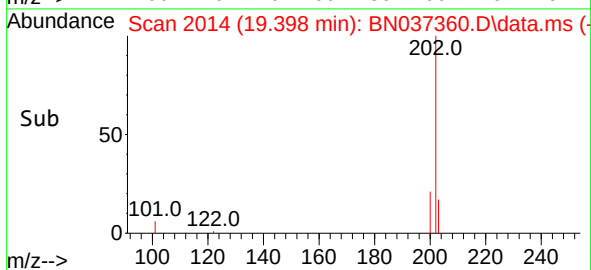
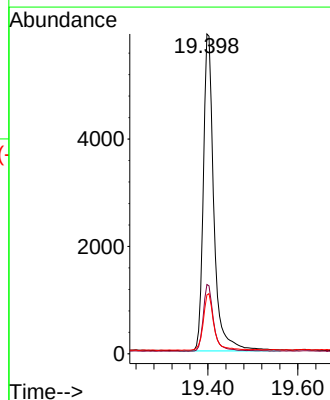
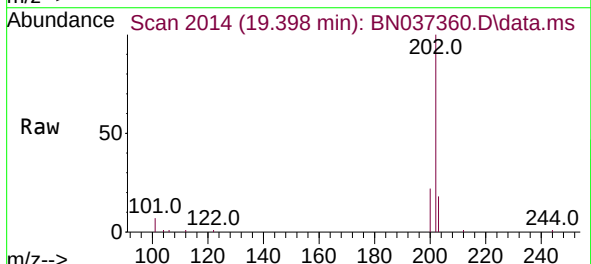
Tgt Ion:202 Resp: 9570

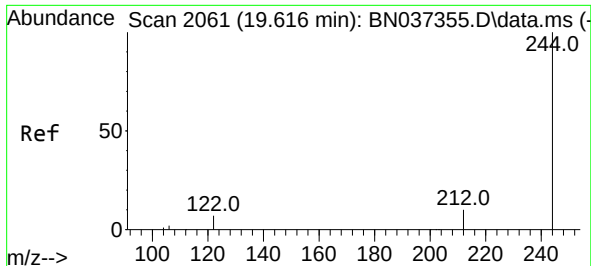
Ion Ratio Lower Upper

202 100

200 20.7 16.8 25.2

203 18.0 14.5 21.7

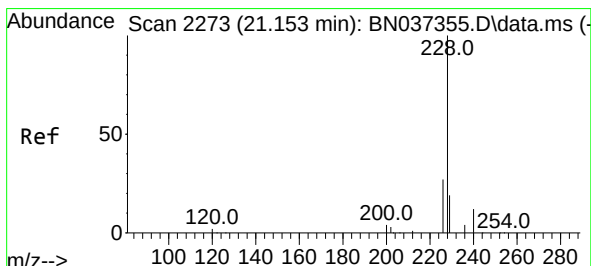
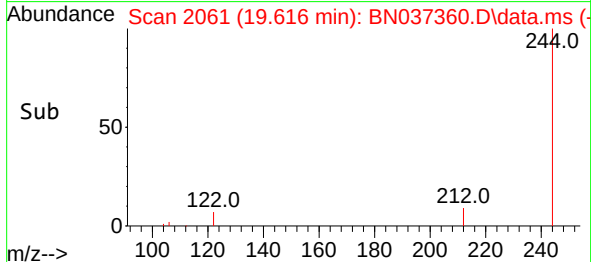
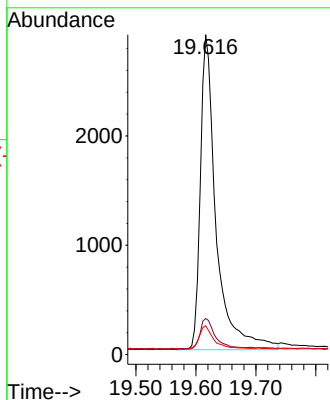
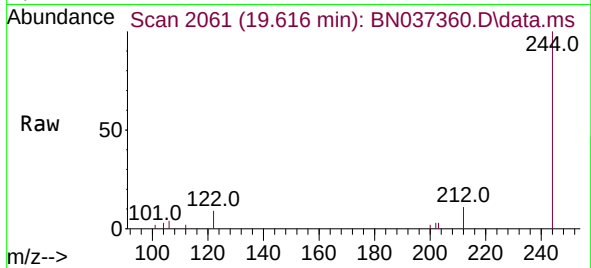




#31
 Terphenyl-d14
 Concen: 0.416 ng
 RT: 19.616 min Scan# 2061
 Delta R.T. 0.000 min
 Lab File: BN037360.D
 Acq: 20 Jun 2025 21:39

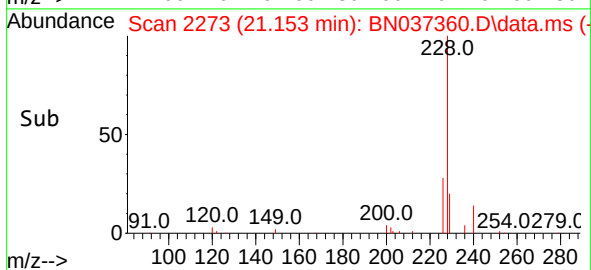
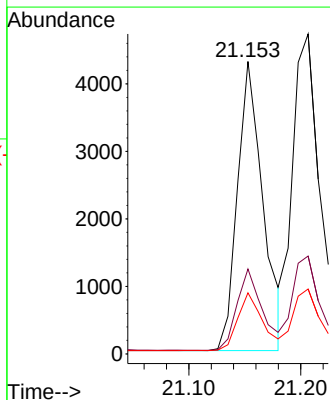
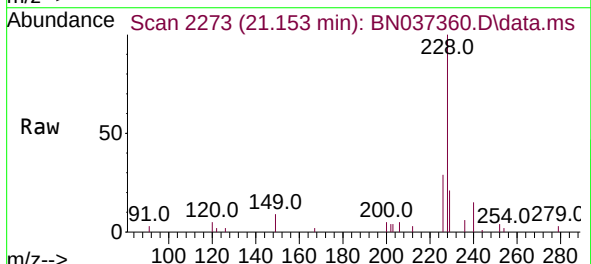
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN062125

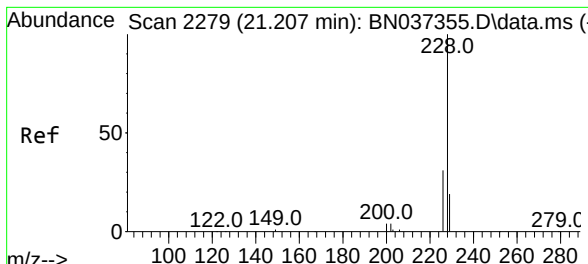
Tgt Ion:244	Resp:	5266
Ion Ratio	Lower	Upper
244	100	
212	11.3	11.1 16.7
122	9.0	7.2 10.8



#32
 Benzo(a)anthracene
 Concen: 0.372 ng
 RT: 21.153 min Scan# 2273
 Delta R.T. 0.000 min
 Lab File: BN037360.D
 Acq: 20 Jun 2025 21:39

Tgt Ion:228	Resp:	6805
Ion Ratio	Lower	Upper
228	100	
226	29.0	23.0 34.4
229	20.9	17.4 26.0

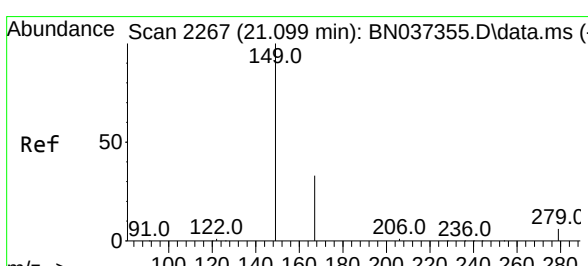
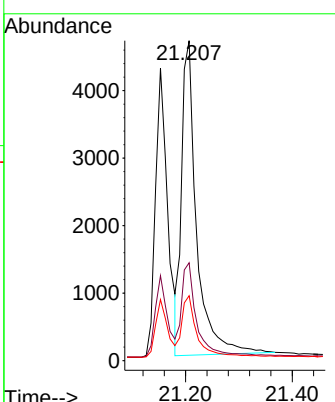
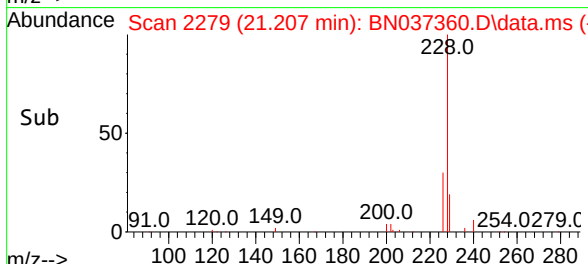
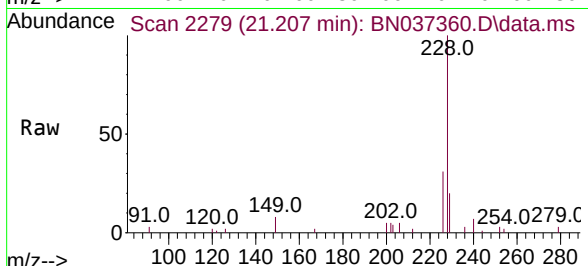




#33
 Chrysene
 Concen: 0.412 ng
 RT: 21.207 min Scan# 2279
 Delta R.T. 0.000 min
 Lab File: BN037360.D
 Acq: 20 Jun 2025 21:39

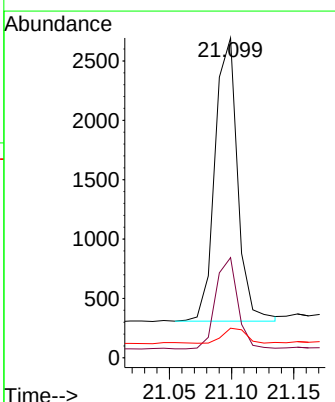
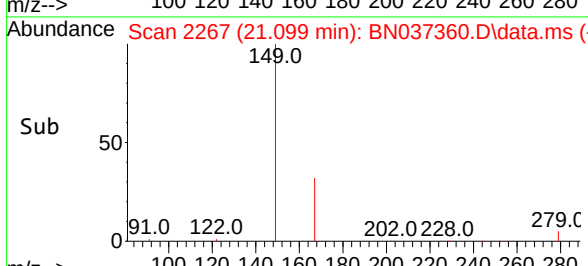
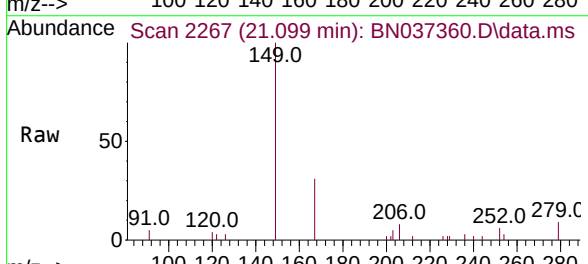
Instrument :
 BNA_N
 ClientSampleId :
 ICVBN062125

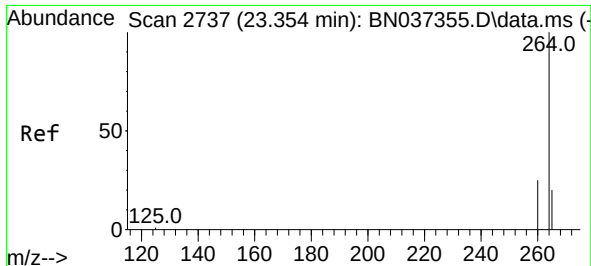
Tgt Ion:	228	Resp:	9119
Ion Ratio	Lower	Upper	
228	100		
226	30.6	25.4	38.2
229	20.3	17.3	25.9



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.403 ng
 RT: 21.099 min Scan# 2267
 Delta R.T. 0.000 min
 Lab File: BN037360.D
 Acq: 20 Jun 2025 21:39

Tgt Ion:	149	Resp:	3022
Ion Ratio	Lower	Upper	
149	100		
167	31.4	24.6	37.0
279	5.6	6.5	9.7

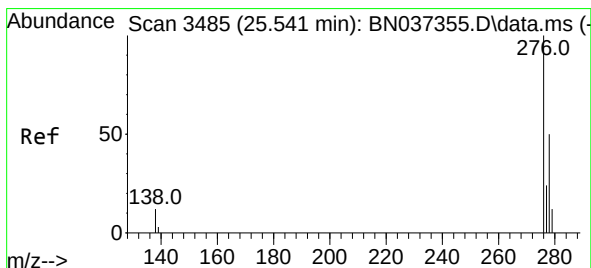
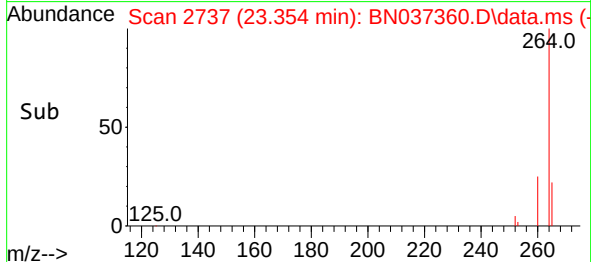
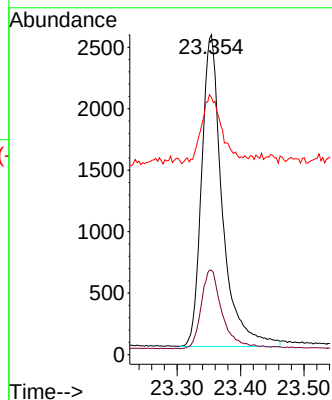
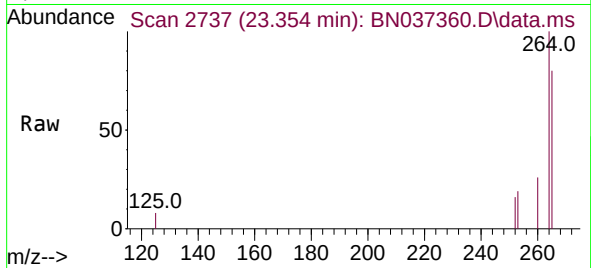




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.354 min Scan# 21
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

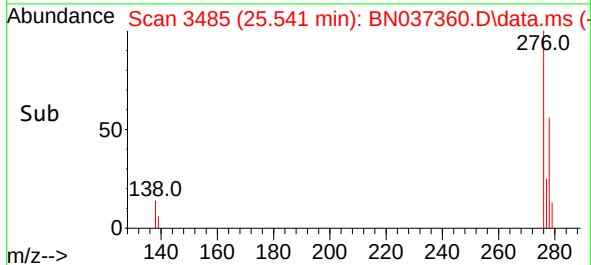
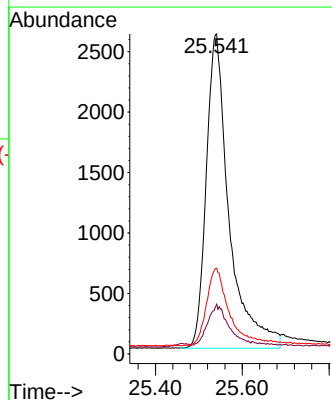
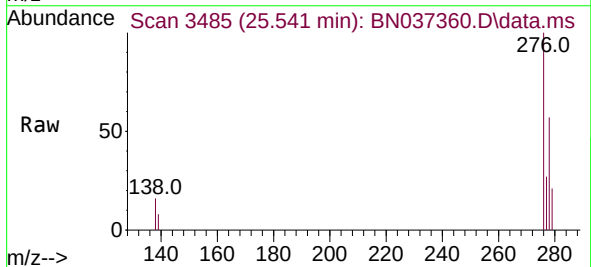
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

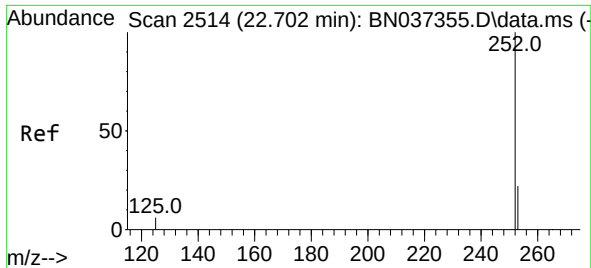
Tgt Ion:	264	Resp:	5756
Ion Ratio	Lower	Upper	
264	100		
260	26.4	21.4	32.2
265	80.4	71.4	107.0



#36
Indeno(1,2,3-cd)pyrene
Concen: 0.368 ng
RT: 25.541 min Scan# 3485
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:	276	Resp:	9492
Ion Ratio	Lower	Upper	
276	100		
138	11.7	2.2	3.2#
277	24.2	17.1	25.7

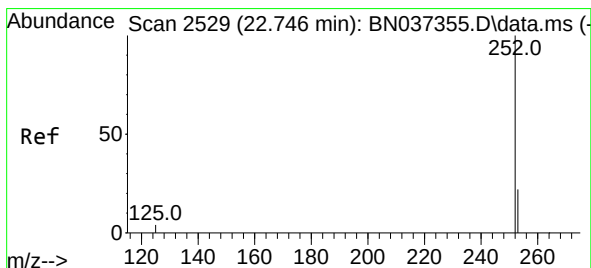
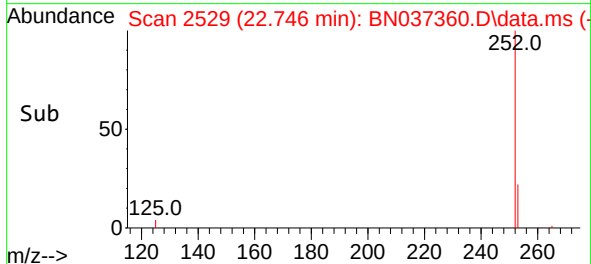
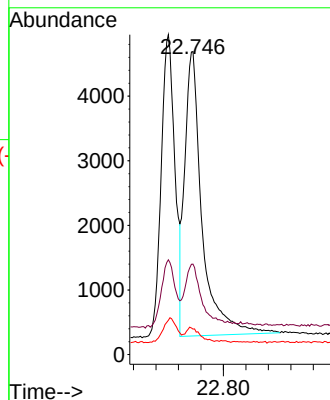
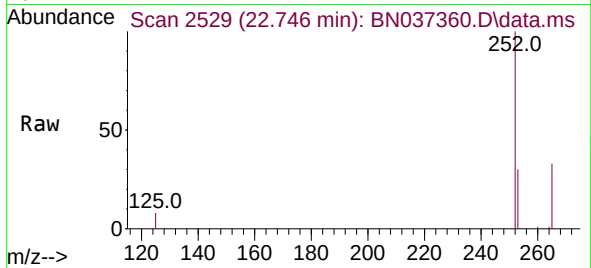




#37
Benzo(b)fluoranthene
Concen: 0.447 ng
RT: 22.746 min Scan# 2514
Delta R.T. 0.044 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

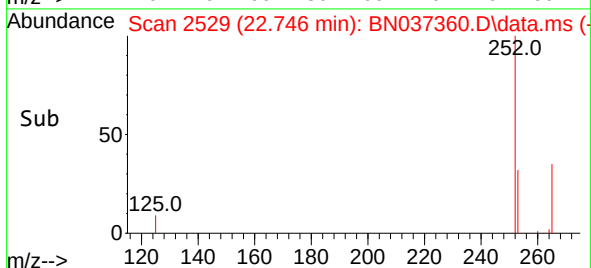
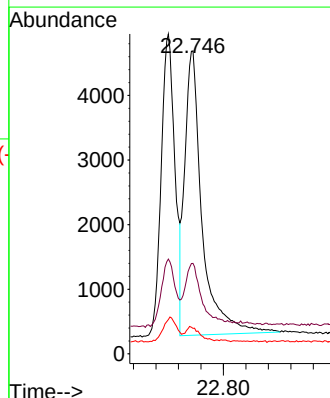
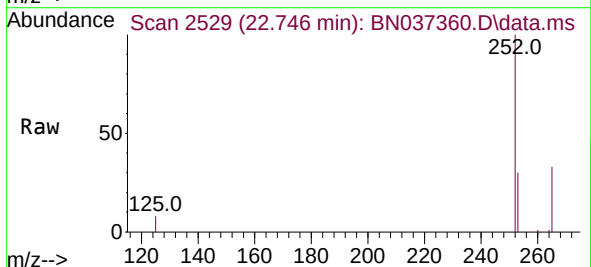
Instrument :
BNA_N
ClientSampleId :
ICVBN062125

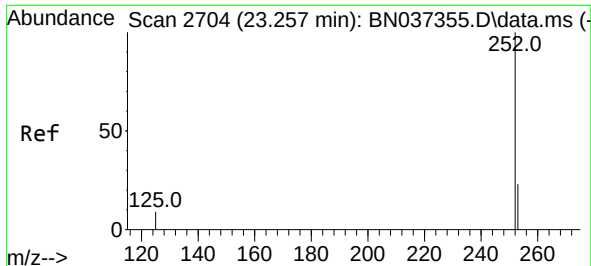
Tgt Ion:252 Resp: 9472
Ion Ratio Lower Upper
252 100
253 29.9 26.6 40.0
125 8.4 6.1 9.1



#38
Benzo(k)fluoranthene
Concen: 0.412 ng
RT: 22.746 min Scan# 2529
Delta R.T. 0.000 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Tgt Ion:252 Resp: 9472
Ion Ratio Lower Upper
252 100
253 29.9 26.7 40.1
125 8.4 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.382 ng

RT: 23.260 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

Instrument :

BNA_N

ClientSampleId :

ICVBN062125

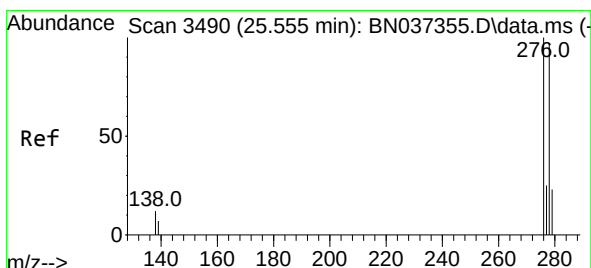
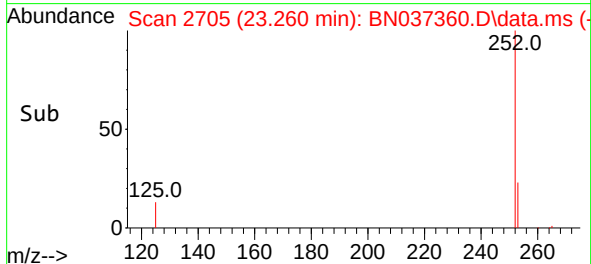
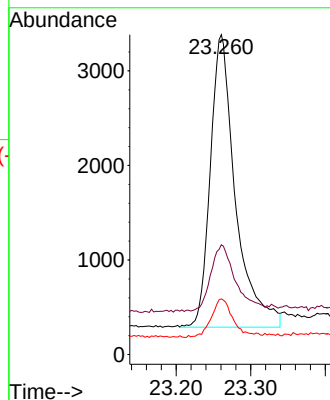
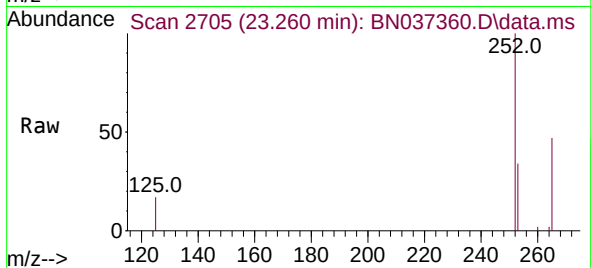
Tgt Ion:252 Resp: 7258

Ion Ratio Lower Upper

252 100

253 34.3 31.6 47.4

125 17.4 8.4 12.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.367 ng

RT: 25.553 min Scan# 3489

Delta R.T. -0.003 min

Lab File: BN037360.D

Acq: 20 Jun 2025 21:39

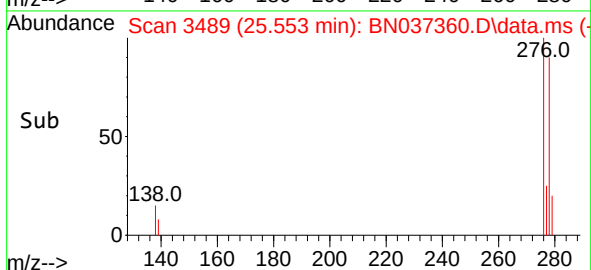
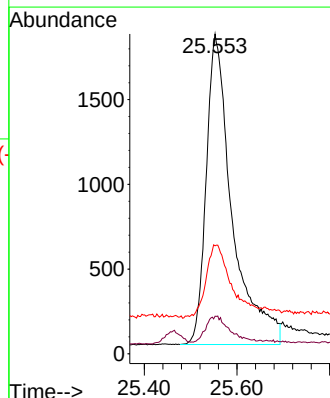
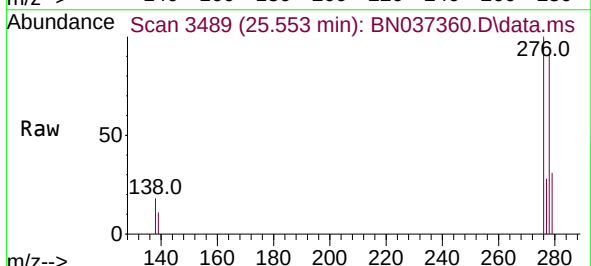
Tgt Ion:278 Resp: 7116

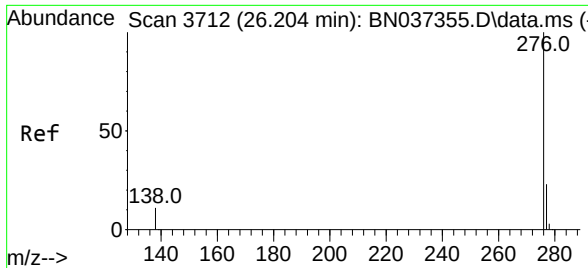
Ion Ratio Lower Upper

278 100

139 11.8 10.2 15.4

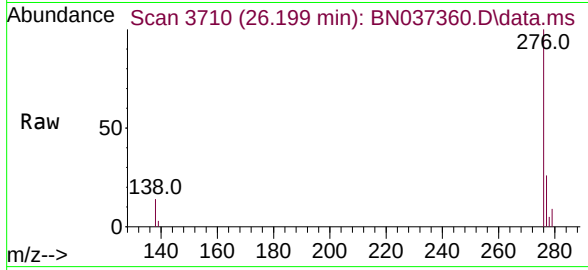
279 33.7 35.6 53.4#



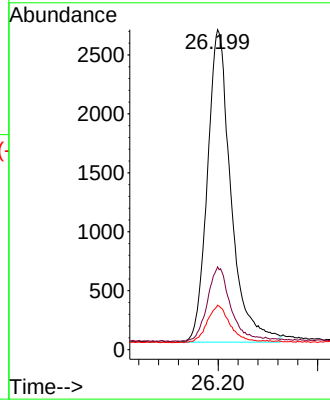
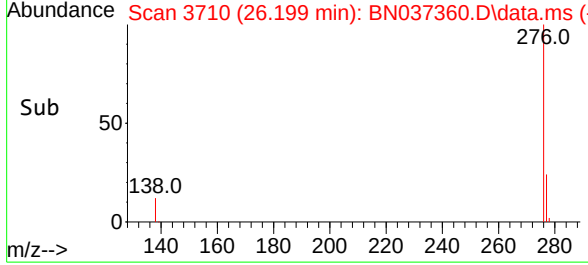


#41
Benzo(g,h,i)perylene
Concen: 0.378 ng
RT: 26.199 min Scan# 31
Delta R.T. -0.006 min
Lab File: BN037360.D
Acq: 20 Jun 2025 21:39

Instrument :
BNA_N
ClientSampleId :
ICVBN062125



Tgt Ion:	276	Resp:	8707
Ion	Ratio	Lower	Upper
276	100		
277	25.9	22.7	34.1
138	13.9	9.4	14.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037364.D
 Acq On : 21 Jun 2025 00:04
 Operator : RC/JU
 Sample : PB168563BSD
 Misc :
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 PB168563BSD

Quant Time: Jun 21 00:33:22 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:41:54 2025
 Response via : Initial Calibration

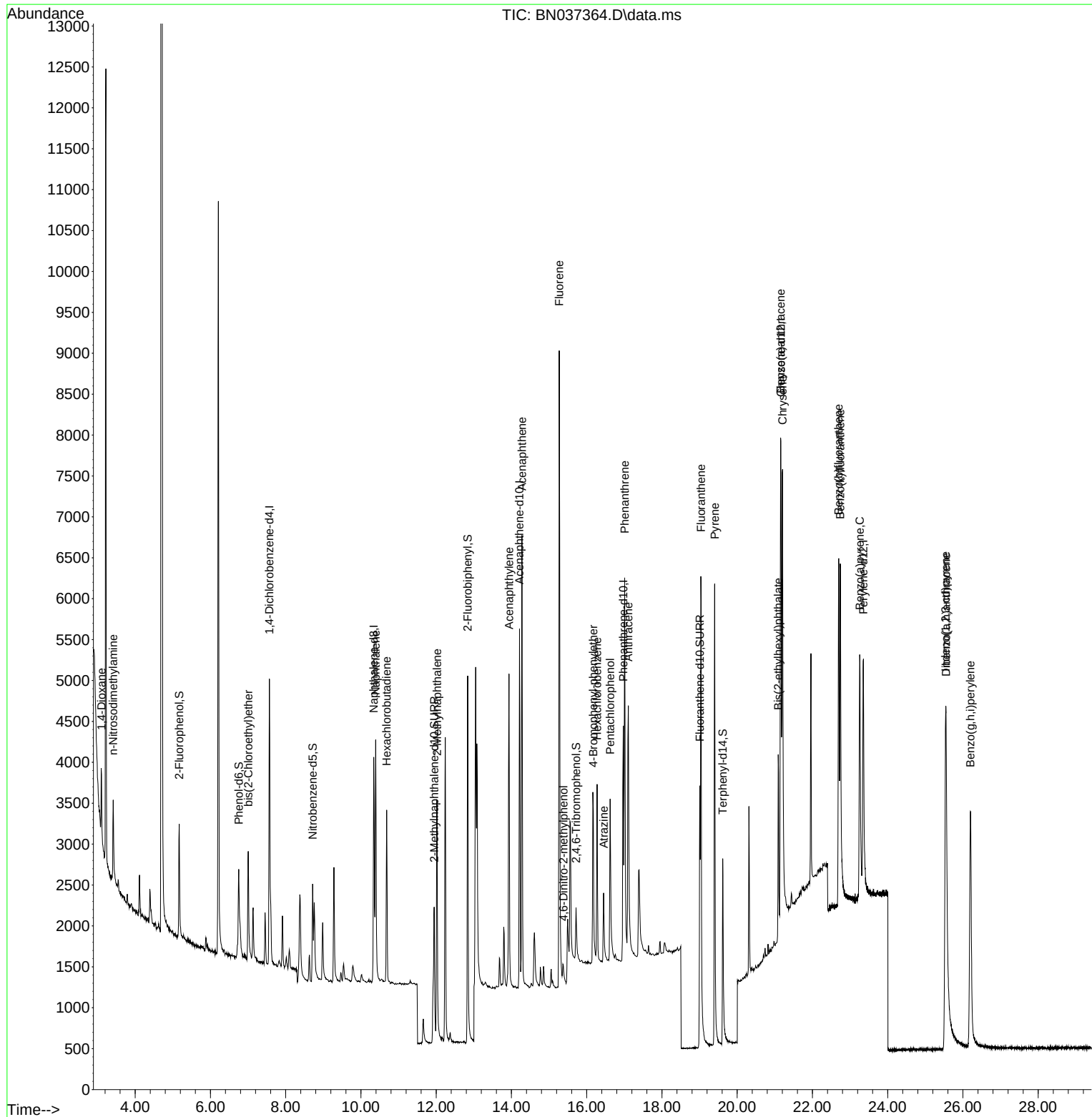
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1885	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4095	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2623	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5035	0.400	ng	# 0.00
29) Chrysene-d12	21.162	240	4193	0.400	ng	0.00
35) Perylene-d12	23.354	264	4470	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	1274	0.338	ng	0.00
5) Phenol-d6	6.752	99	1342	0.346	ng	0.00
8) Nitrobenzene-d5	8.717	82	1284	0.388	ng	0.00
11) 2-Methylnaphthalene-d10	11.945	152	3901	0.588	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	522	0.339	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	4574	0.397	ng	0.00
27) Fluoranthene-d10	19.007	212	5003	0.346	ng	0.00
31) Terphenyl-d14	19.616	244	3587	0.375	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	583	0.304	ng	# 36
3) n-Nitrosodimethylamine	3.415	42	653	0.372	ng	# 70
6) bis(2-Chloroethyl)ether	7.004	93	1260	0.366	ng	99
9) Naphthalene	10.394	128	4026	0.372	ng	# 89
10) Hexachlorobutadiene	10.682	225	1748	0.410	ng	# 100
12) 2-Methylnaphthalene	12.021	142	2474	0.328	ng	93
16) Acenaphthylene	13.935	152	4445	0.403	ng	98
17) Acenaphthene	14.277	154	2642	0.364	ng	98
18) Fluorene	15.271	166	3709	0.364	ng	99
20) 4,6-Dinitro-2-methylph...	15.378	198	419	0.346	ng	# 81
21) 4-Bromophenyl-phenylether	16.177	248	1344	0.375	ng	96
22) Hexachlorobenzene	16.276	284	1596	0.409	ng	99
23) Atrazine	16.450	200	1011	0.354	ng	# 88
24) Pentachlorophenol	16.624	266	1337	0.688	ng	97
25) Phenanthrene	17.009	178	5370	0.368	ng	99
26) Anthracene	17.108	178	4862	0.362	ng	99
28) Fluoranthene	19.035	202	6244	0.339	ng	# 99
30) Pyrene	19.402	202	6351	0.373	ng	99
32) Benzo(a)anthracene	21.153	228	5141	0.373	ng	99
33) Chrysene	21.206	228	6472	0.387	ng	97
34) Bis(2-ethylhexyl)phtha...	21.090	149	2023	0.358	ng	96
36) Indeno(1,2,3-cd)pyrene	25.538	276	7744	0.386	ng	# 92
37) Benzo(b)fluoranthene	22.696	252	5838	0.355	ng	95
38) Benzo(k)fluoranthene	22.740	252	6945	0.389	ng	96
39) Benzo(a)pyrene	23.254	252	5888	0.399	ng	95
40) Dibenzo(a,h)anthracene	25.552	278	5912	0.392	ng	89
41) Benzo(g,h,i)perylene	26.199	276	7039	0.393	ng	96

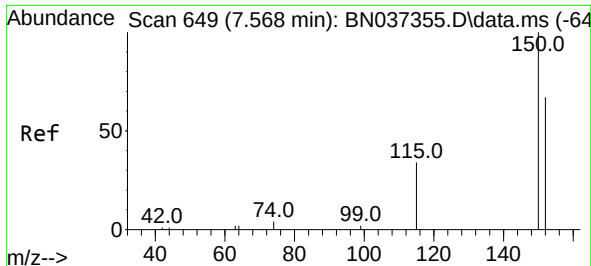
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037364.D
Acq On : 21 Jun 2025 00:04
Operator : RC/JU
Sample : PB168563BSD
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB168563BSD

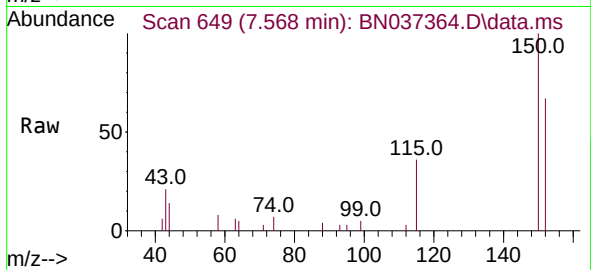
Quant Time: Jun 21 00:33:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration



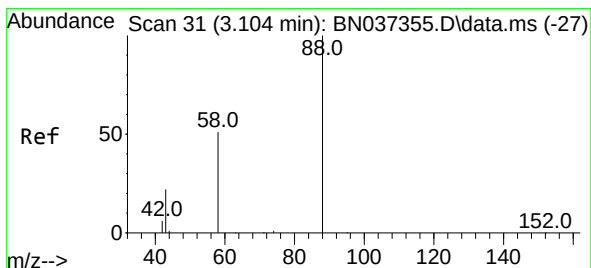
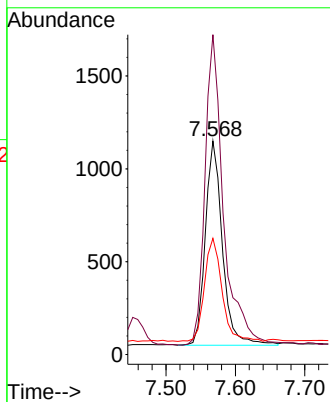
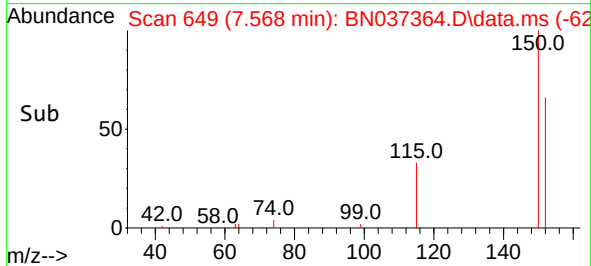


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.568 min Scan# 649
 Delta R.T. -0.000 min
 Lab File: BN037364.D
 Acq: 21 Jun 2025 00:04

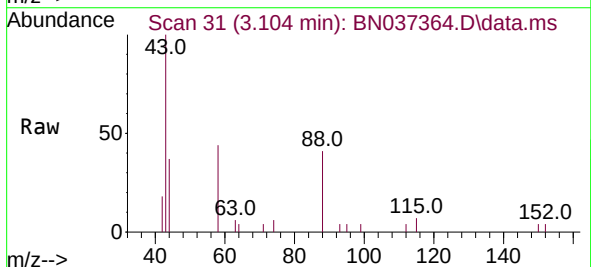
Instrument :
 BNA_N
 ClientSampleId :
 PB168563BSD



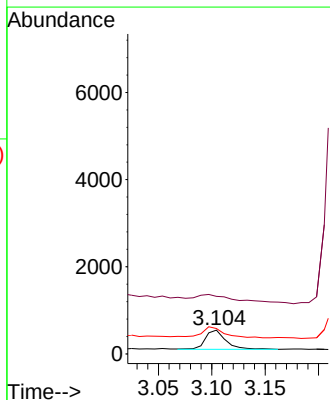
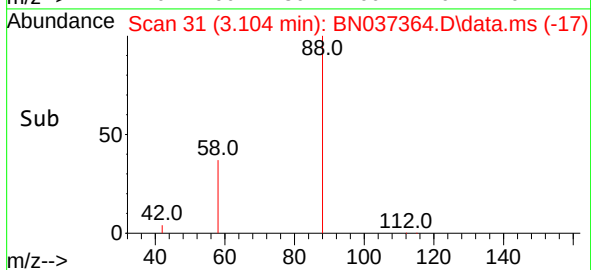
Tgt Ion:152 Resp: 1885
 Ion Ratio Lower Upper
 152 100
 150 149.8 112.7 169.1
 115 54.4 45.9 68.9

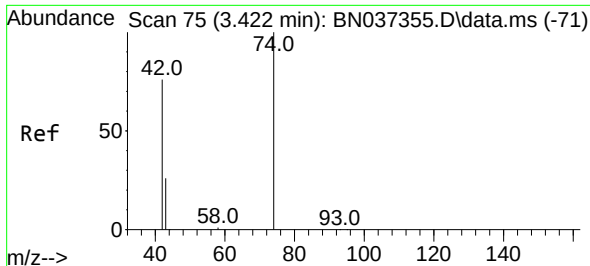


#2
 1,4-Dioxane
 Concen: 0.304 ng
 RT: 3.104 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: BN037364.D
 Acq: 21 Jun 2025 00:04



Tgt Ion: 88 Resp: 583
 Ion Ratio Lower Upper
 88 100
 43 101.0 21.0 31.6#
 58 59.7 38.0 57.0#

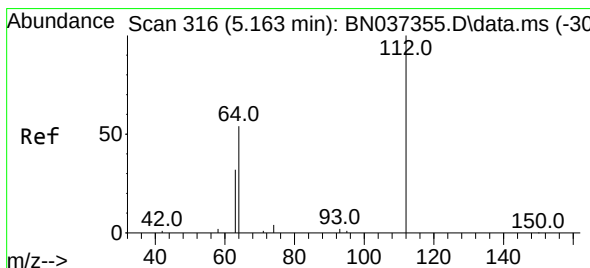
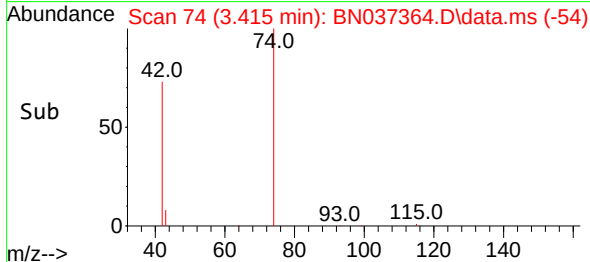
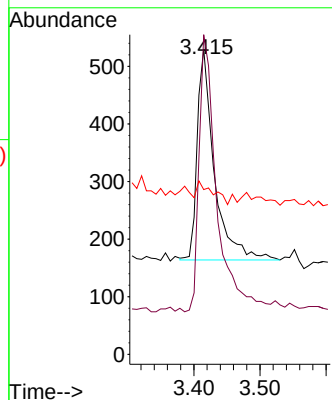
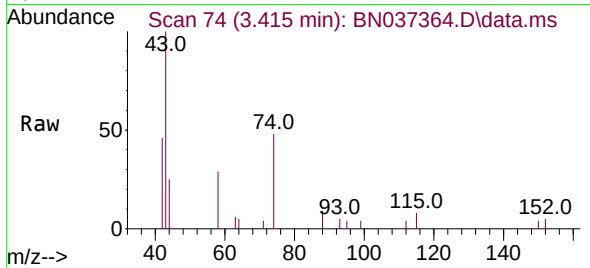




#3
n-Nitrosodimethylamine
Concen: 0.372 ng
RT: 3.415 min Scan# 74
Delta R.T. -0.007 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

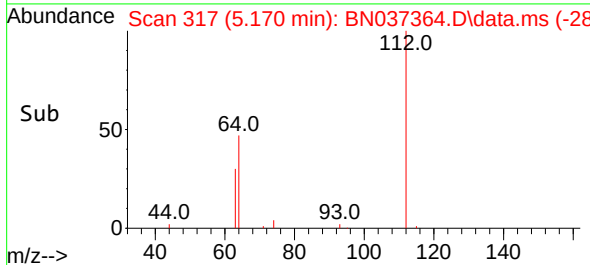
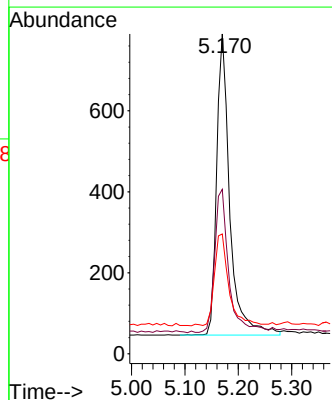
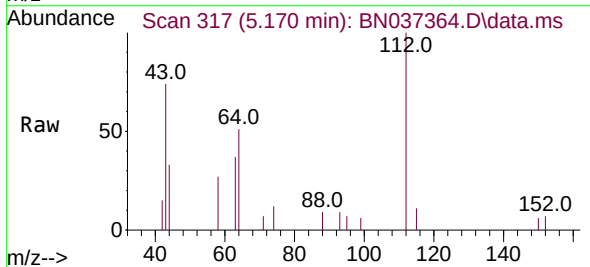
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

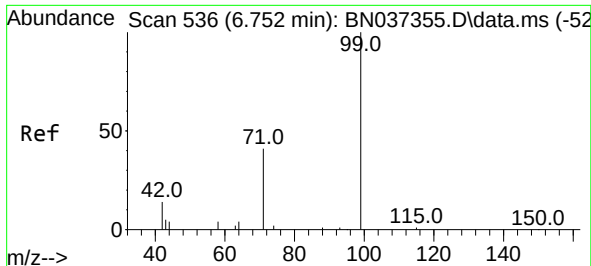
Tgt Ion: 42 Resp: 653
Ion Ratio Lower Upper
42 100
74 137.4 84.3 126.5#
44 10.1 5.0 7.4#



#4
2-Fluorophenol
Concen: 0.338 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion: 112 Resp: 1274
Ion Ratio Lower Upper
112 100
64 50.5 38.7 58.1
63 33.0 26.4 39.6

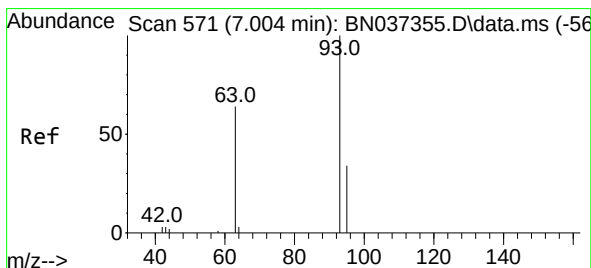
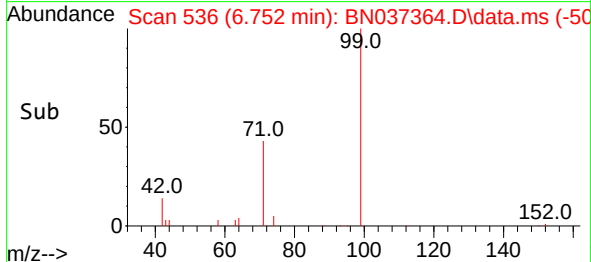
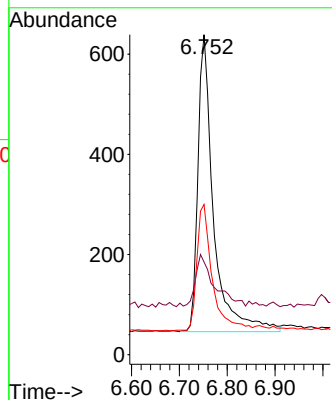
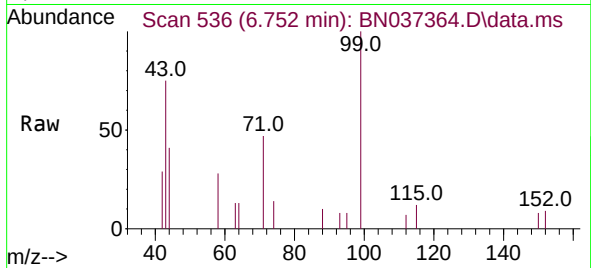




#5
Phenol-d6
Concen: 0.346 ng
RT: 6.752 min Scan# 536
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

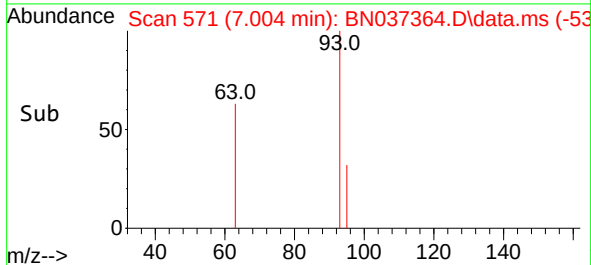
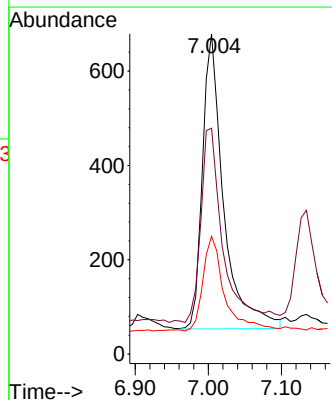
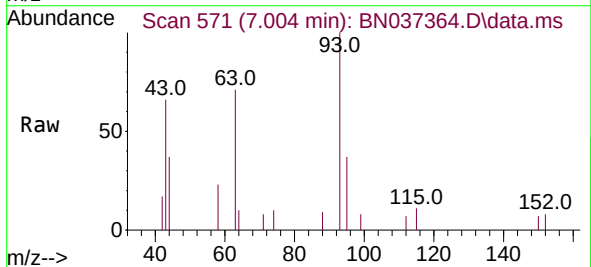
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

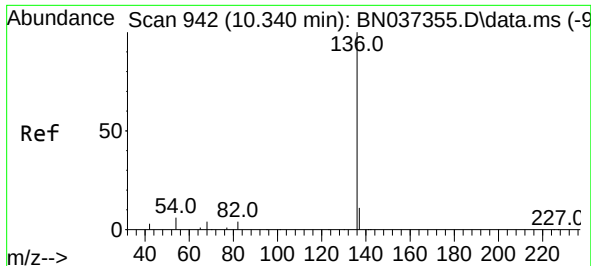
Tgt Ion: 99 Resp: 1342
Ion Ratio Lower Upper
99 100
42 21.1 19.8 29.8
71 42.0 42.6 64.0#



#6
bis(2-Chloroethyl)ether
Concen: 0.366 ng
RT: 7.004 min Scan# 571
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion: 93 Resp: 1260
Ion Ratio Lower Upper
93 100
63 66.8 53.2 79.8
95 32.7 27.3 40.9

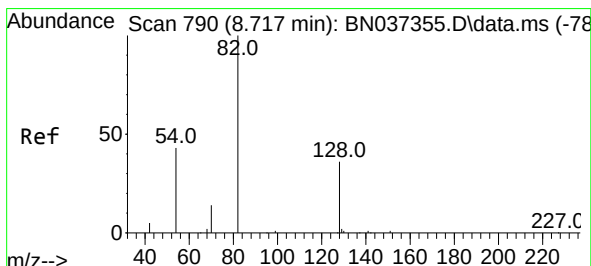
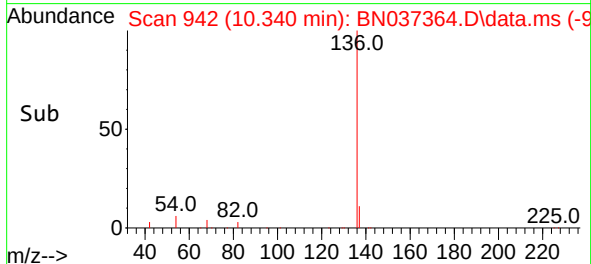
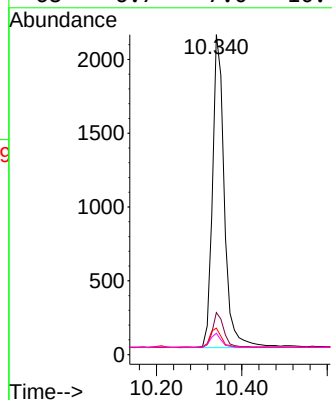
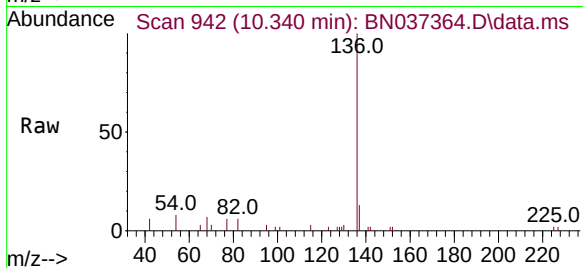




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

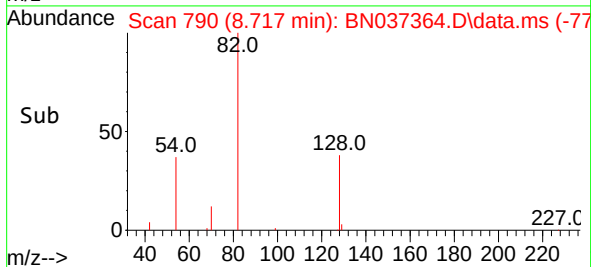
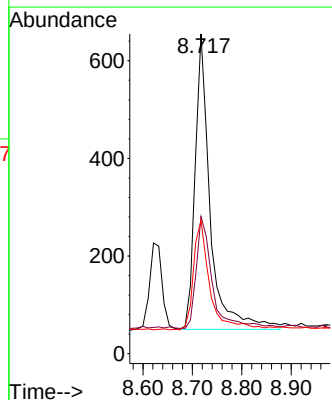
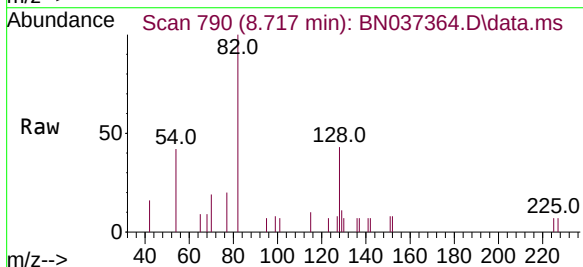
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

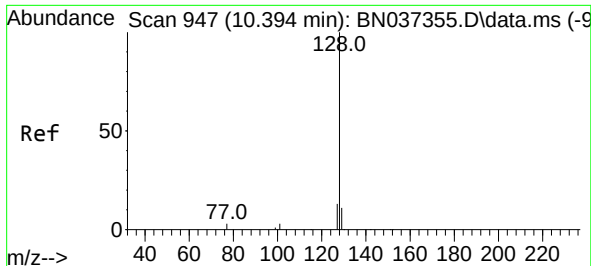
Tgt Ion:	136	Resp:	4095
Ion	Ratio	Lower	Upper
136	100		
137	13.1	12.2	18.2
54	8.3	8.8	13.2#
68	6.7	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 0.388 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:	82	Resp:	1284
Ion	Ratio	Lower	Upper
82	100		
128	42.9	42.5	63.7
54	41.7	43.2	64.8#

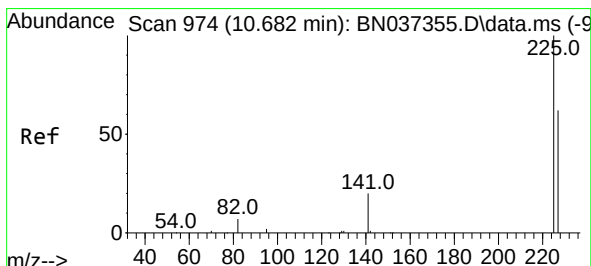
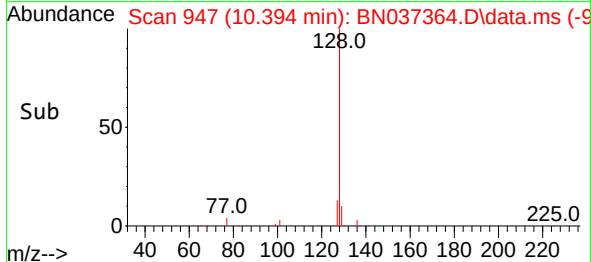
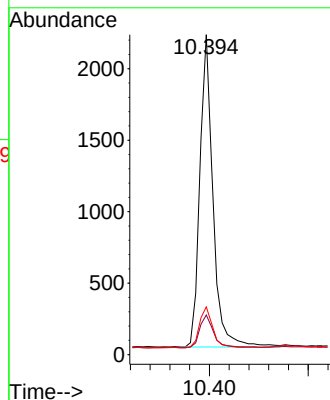
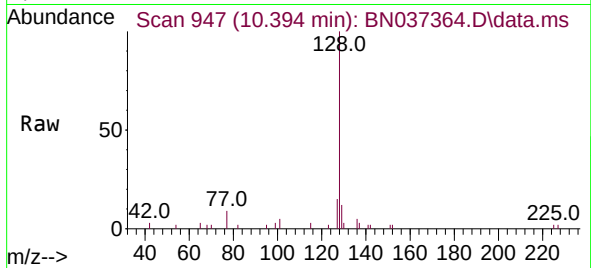




#9
Naphthalene
Concen: 0.372 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

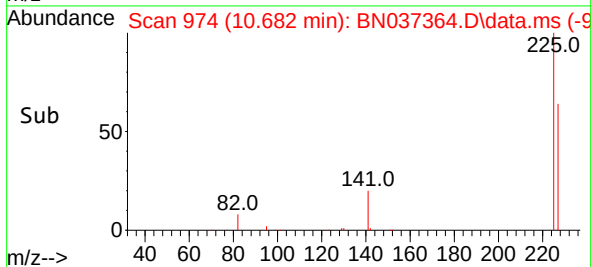
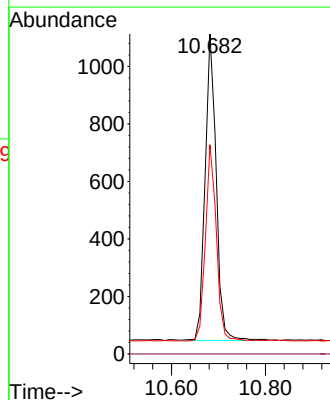
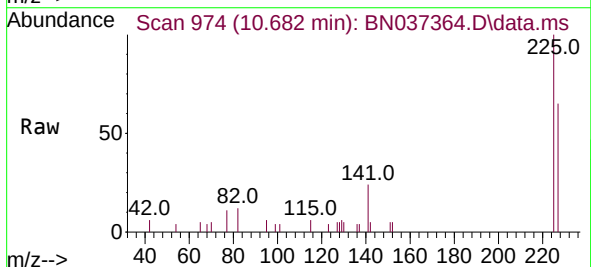
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

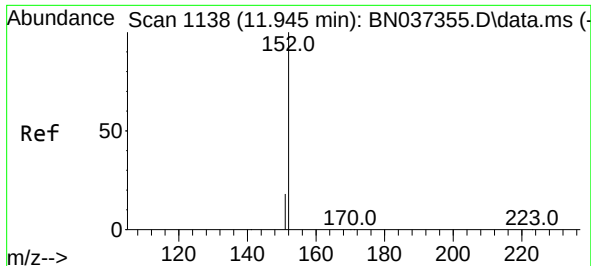
Tgt Ion:128 Resp: 4026
Ion Ratio Lower Upper
128 100
129 12.4 14.0 21.0#
127 14.9 15.8 23.8#



#10
Hexachlorobutadiene
Concen: 0.410 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:225 Resp: 1748
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.6 50.3 75.5

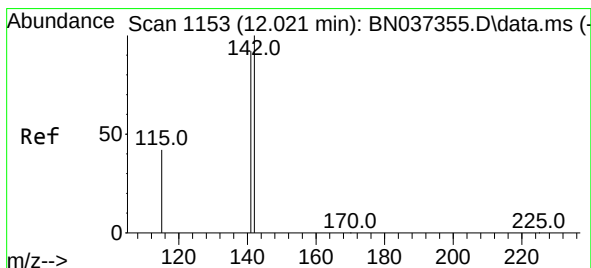
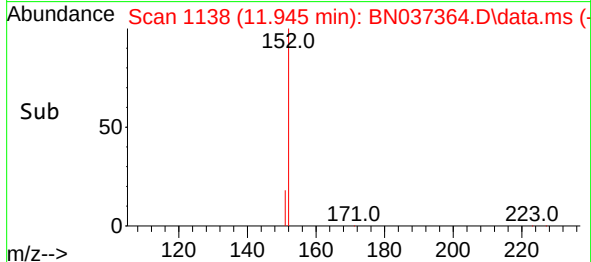
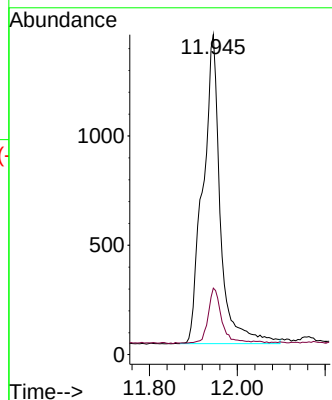
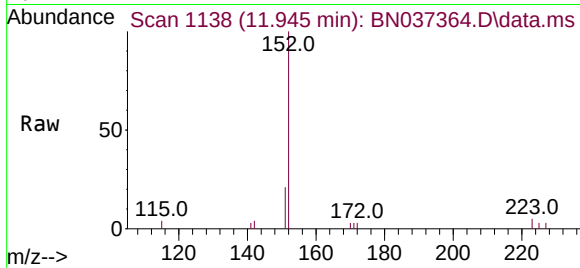




#11
2-Methylnaphthalene-d10
Concen: 0.588 ng
RT: 11.945 min Scan# 1138
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

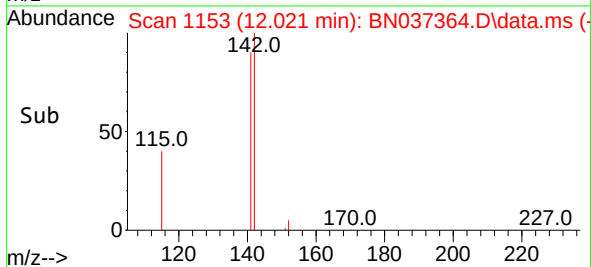
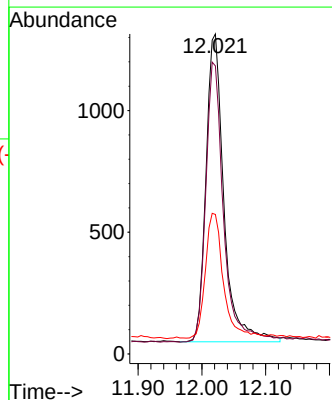
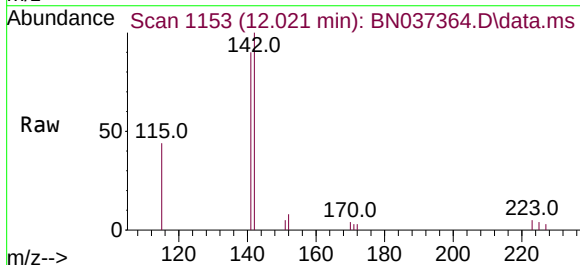
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

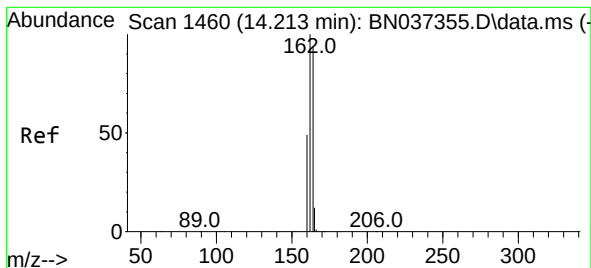
Tgt Ion:152 Resp: 3901
Ion Ratio Lower Upper
152 100
151 13.8 17.4 26.0#



#12
2-Methylnaphthalene
Concen: 0.328 ng
RT: 12.021 min Scan# 1153
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:142 Resp: 2474
Ion Ratio Lower Upper
142 100
141 90.0 70.2 105.2
115 43.6 43.0 64.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.213 min Scan# 14

Delta R.T. -0.000 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

Instrument :

BNA_N

ClientSampleId :

PB168563BSD

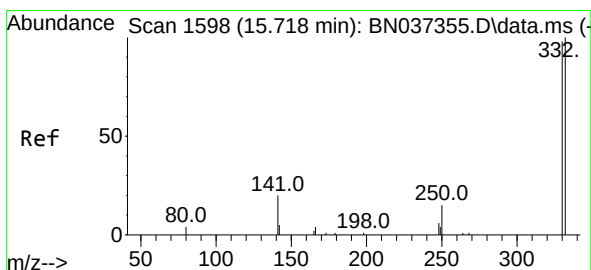
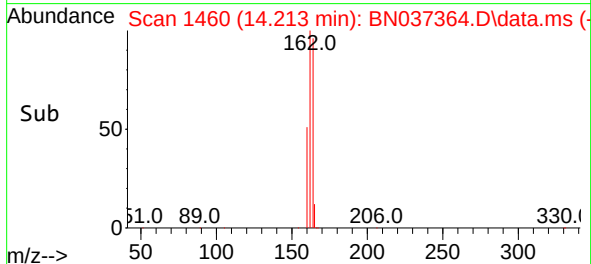
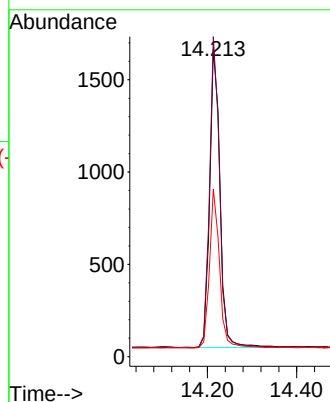
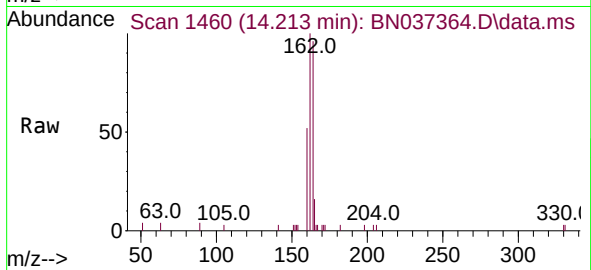
Tgt Ion:164 Resp: 2623

Ion Ratio Lower Upper

164 100

162 104.1 81.5 122.3

160 54.5 43.0 64.4



#14

2,4,6-Tribromophenol

Concen: 0.339 ng

RT: 15.718 min Scan# 1598

Delta R.T. -0.000 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

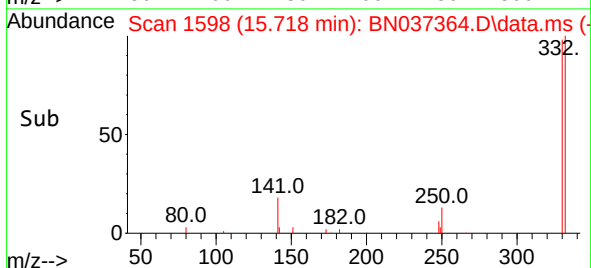
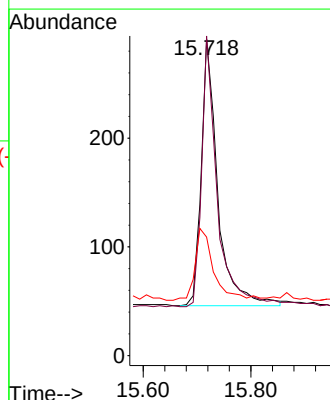
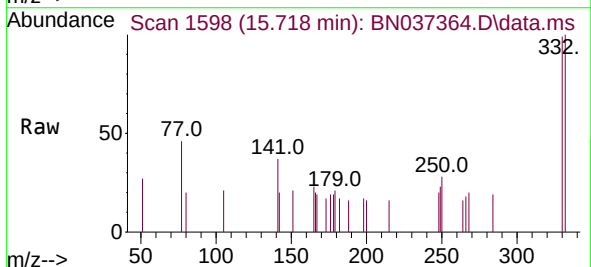
Tgt Ion:330 Resp: 522

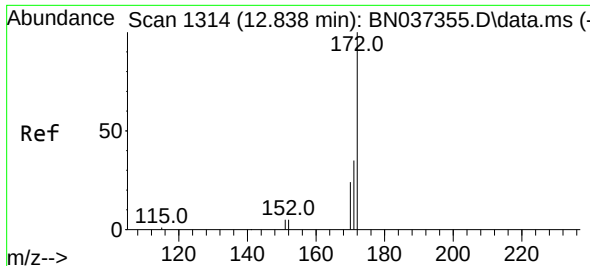
Ion Ratio Lower Upper

330 100

332 95.8 78.4 117.6

141 30.7 24.4 36.6

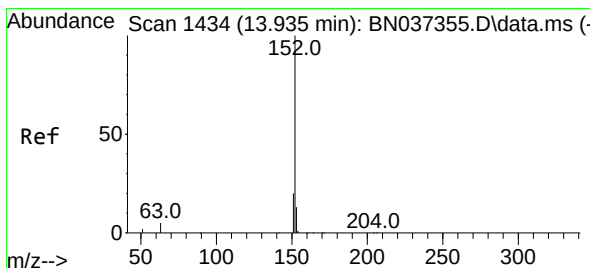
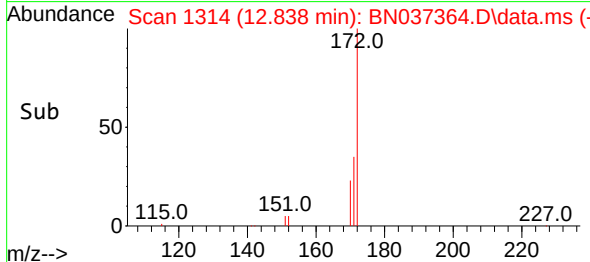
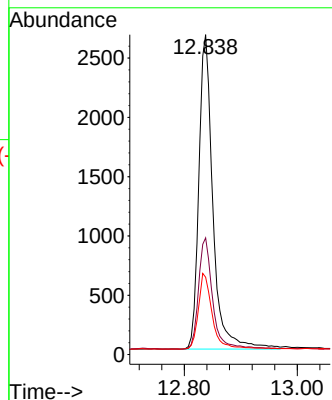
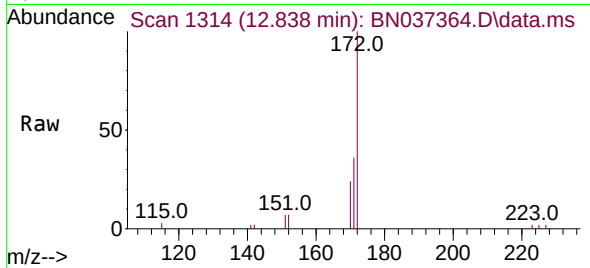




#15
2-Fluorobiphenyl
Concen: 0.397 ng
RT: 12.838 min Scan# 1314
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

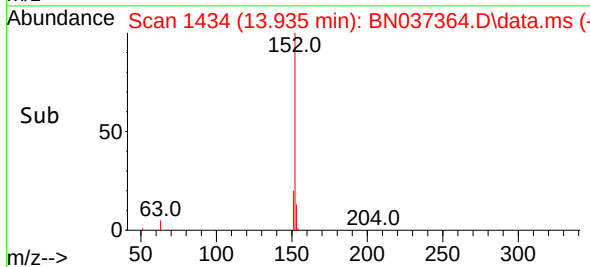
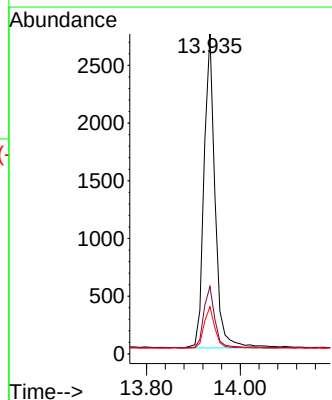
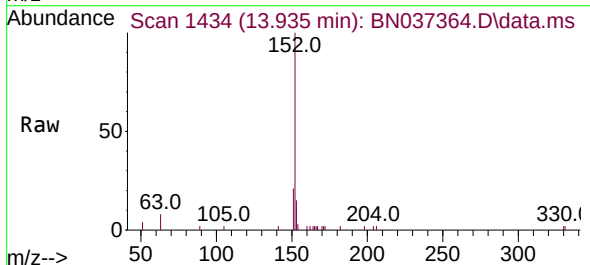
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

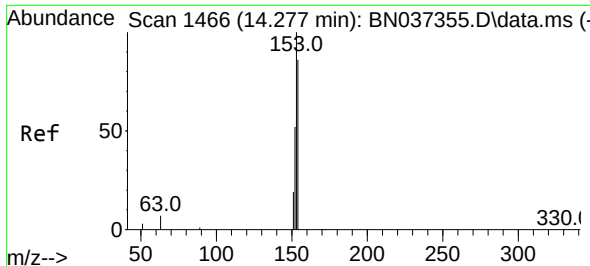
Tgt Ion:	172	Resp:	4574
Ion Ratio	Lower	Upper	
172	100		
171	36.5	30.8	46.2
170	24.2	21.9	32.9



#16
Acenaphthylene
Concen: 0.403 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:	152	Resp:	4445
Ion Ratio	Lower	Upper	
152	100		
151	19.4	16.6	24.8
153	13.3	10.2	15.2

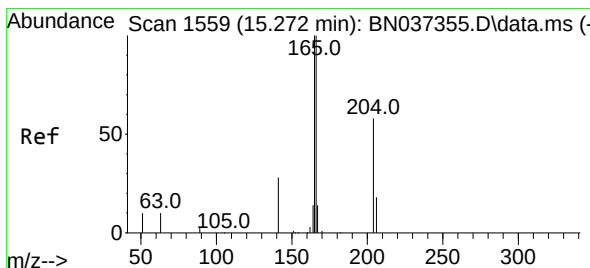
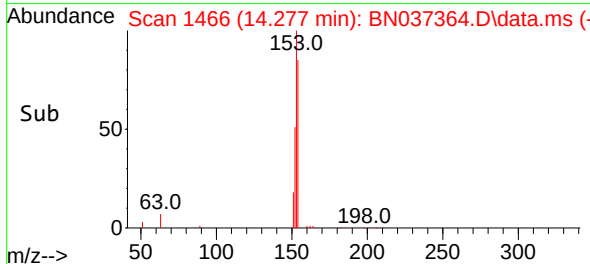
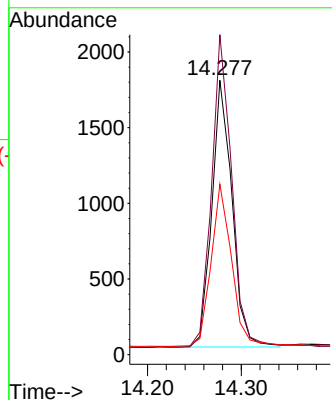
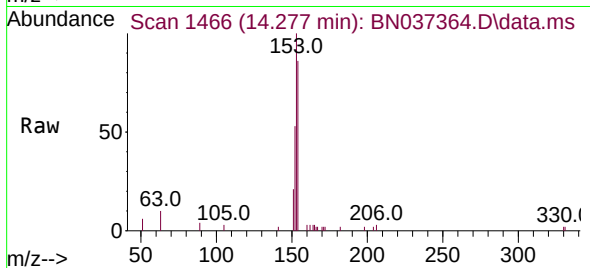




#17
Acenaphthene
Concen: 0.364 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

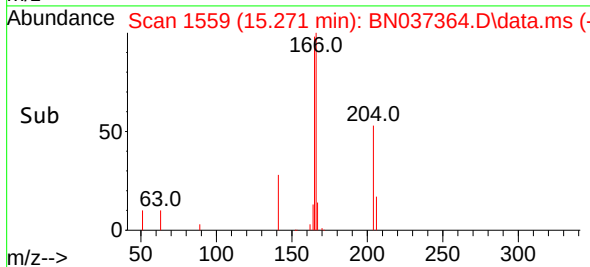
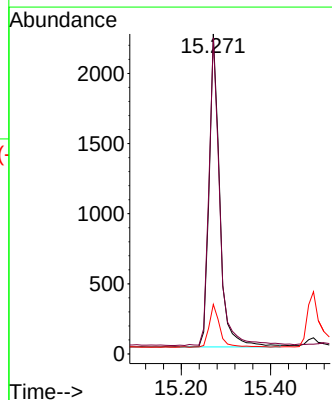
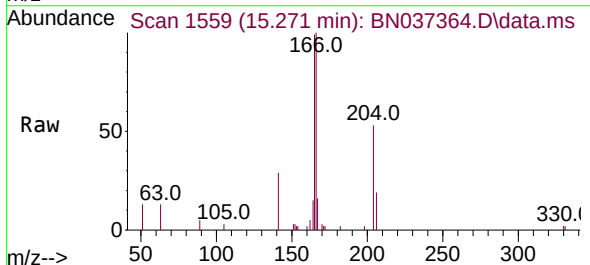
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

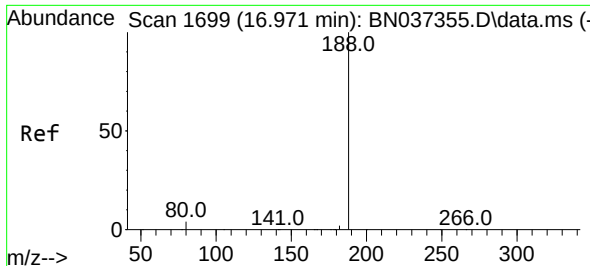
Tgt Ion:154 Resp: 2642
Ion Ratio Lower Upper
154 100
153 118.2 93.1 139.7
152 62.7 48.6 73.0



#18
Fluorene
Concen: 0.364 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:166 Resp: 3709
Ion Ratio Lower Upper
166 100
165 100.1 79.5 119.3
167 13.8 10.7 16.1

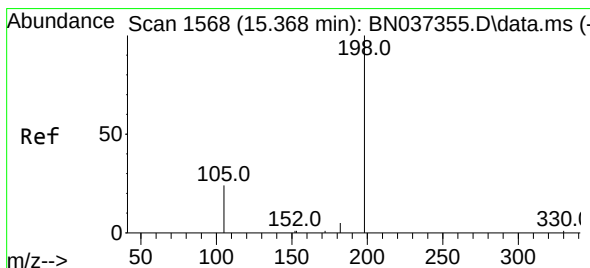
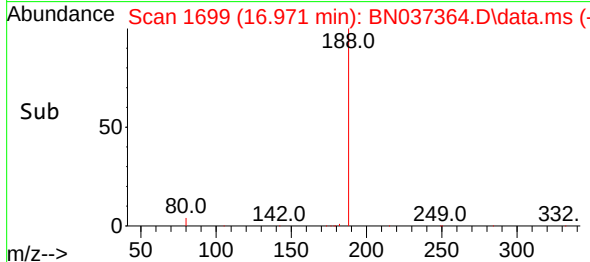
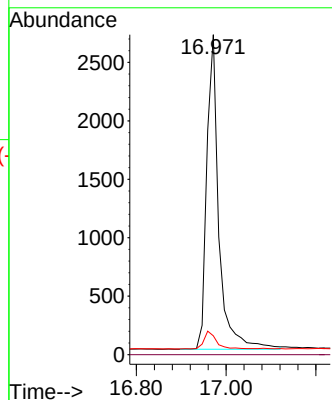
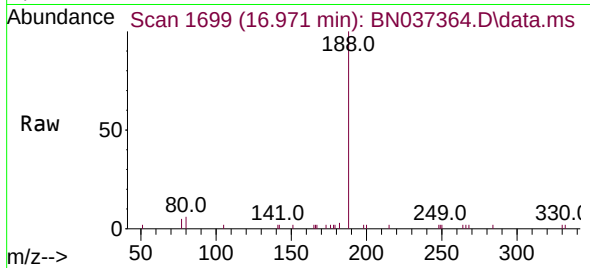




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

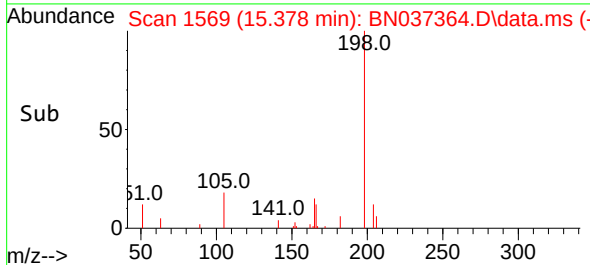
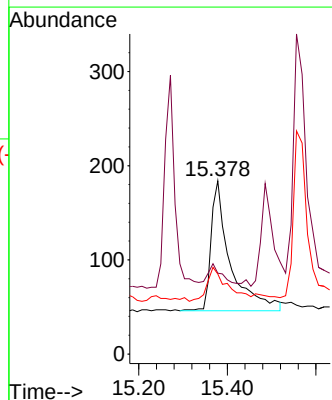
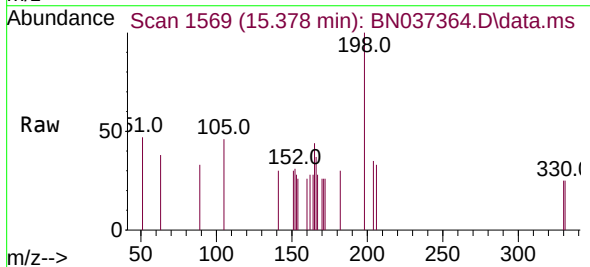
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

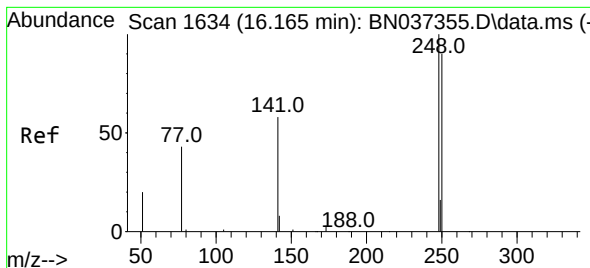
Tgt Ion:188 Resp: 5035
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 5.9 6.2 9.2#



#20
4,6-Dinitro-2-methylphenol
Concen: 0.346 ng
RT: 15.378 min Scan# 1569
Delta R.T. 0.011 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:198 Resp: 419
Ion Ratio Lower Upper
198 100
51 46.7 51.4 77.0#
105 46.2 45.5 68.3

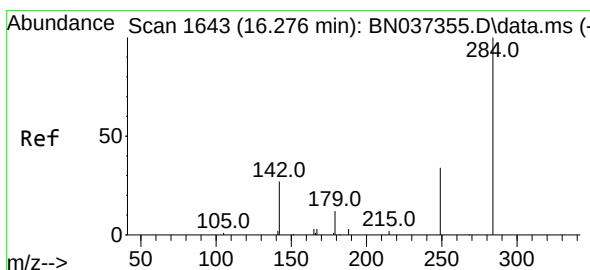
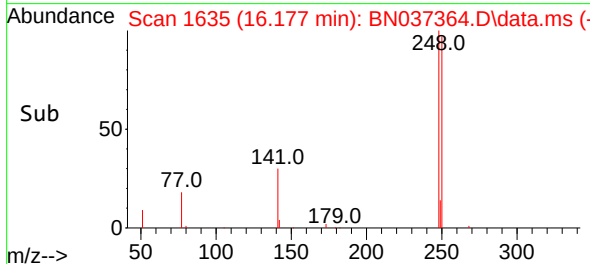
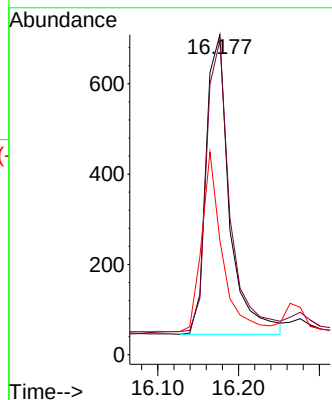
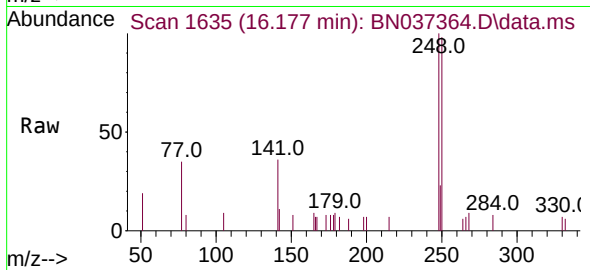




#21
4-Bromophenyl-phenylether
Concen: 0.375 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.012 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

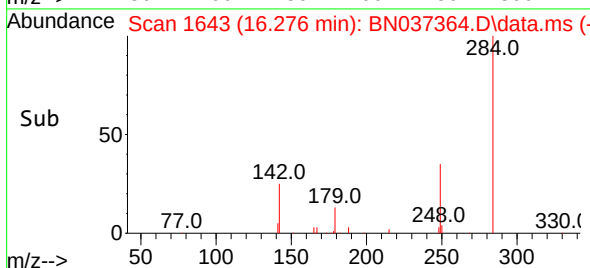
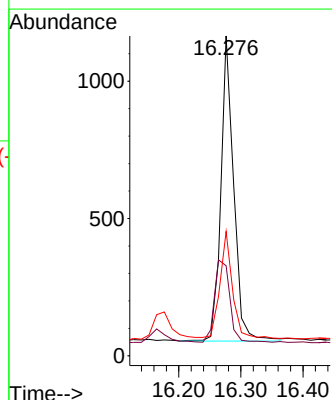
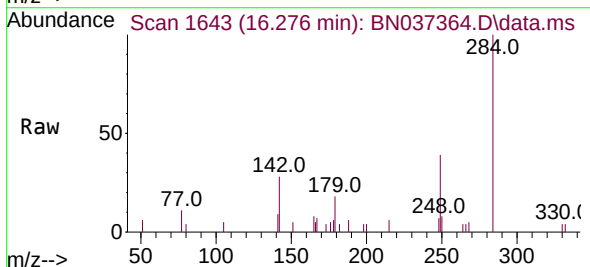
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

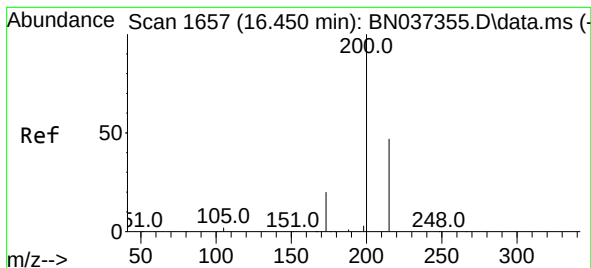
Tgt Ion:	248	Resp:	1344
Ion Ratio	Lower	Upper	
248	100		
250	98.2	80.4	120.6
141	35.7	33.3	49.9



#22
Hexachlorobenzene
Concen: 0.409 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:	284	Resp:	1596
Ion Ratio	Lower	Upper	
284	100		
142	33.3	27.0	40.6
249	35.8	28.8	43.2





#23

Atrazine

Concen: 0.354 ng

RT: 16.450 min Scan# 1657

Delta R.T. -0.000 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

Instrument :

BNA_N

ClientSampleId :

PB168563BSD

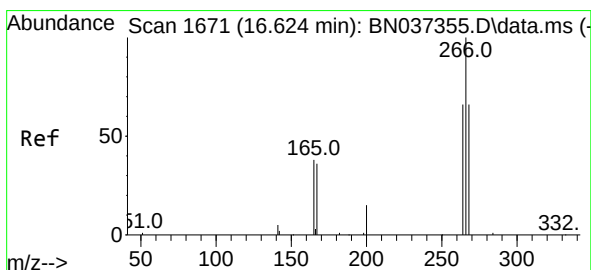
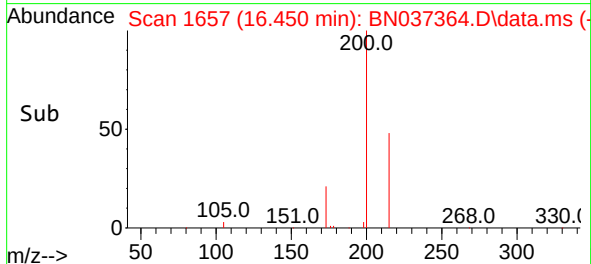
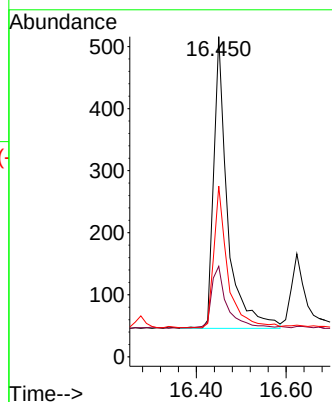
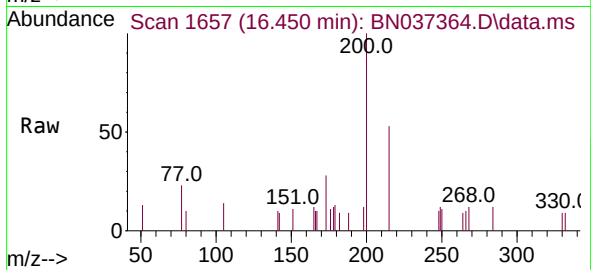
Tgt Ion:200 Resp: 1011

Ion Ratio Lower Upper

200 100

173 28.3 29.2 43.8#

215 53.3 48.8 73.2



#24

Pentachlorophenol

Concen: 0.688 ng

RT: 16.624 min Scan# 1671

Delta R.T. -0.000 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

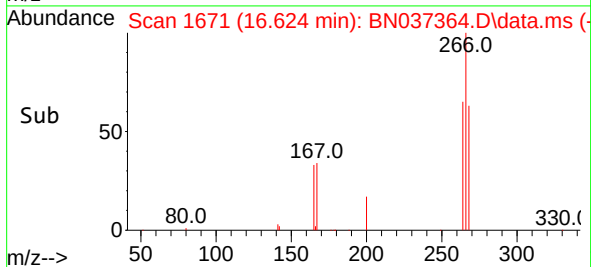
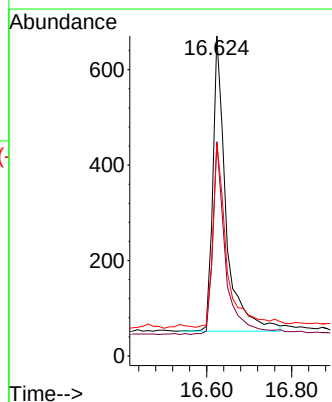
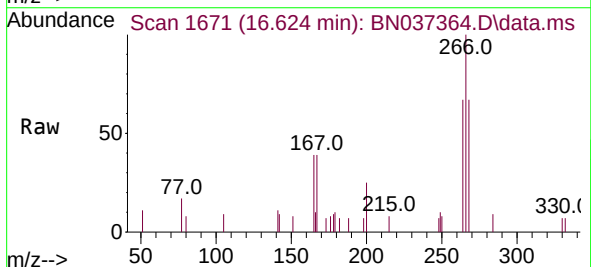
Tgt Ion:266 Resp: 1337

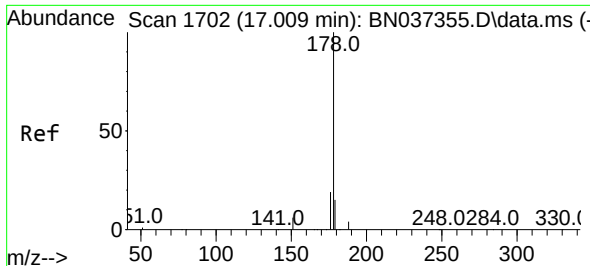
Ion Ratio Lower Upper

266 100

264 62.5 50.3 75.5

268 65.4 55.3 82.9

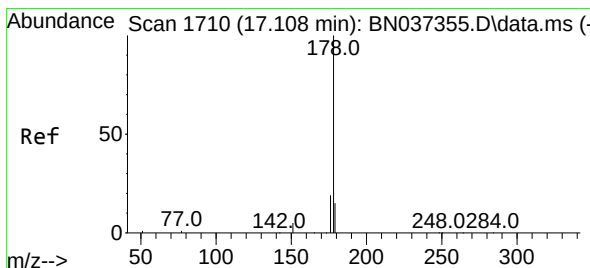
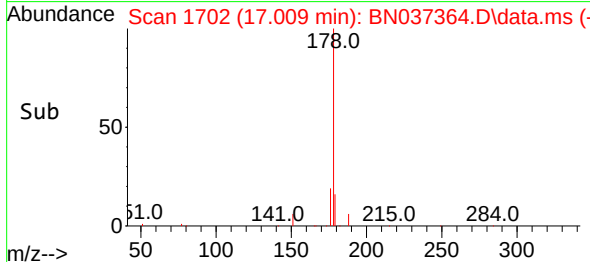
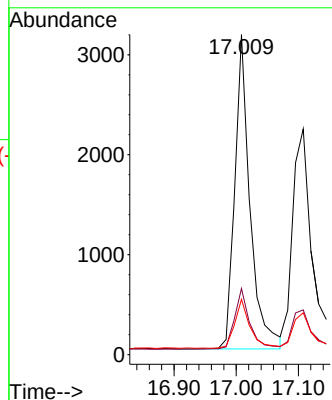
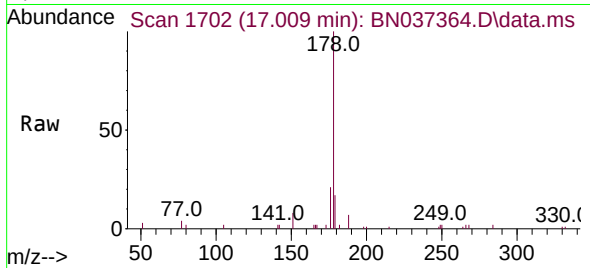




#25
 Phenanthrene
 Concen: 0.368 ng
 RT: 17.009 min Scan# 1702
 Delta R.T. -0.000 min
 Lab File: BN037364.D
 Acq: 21 Jun 2025 00:04

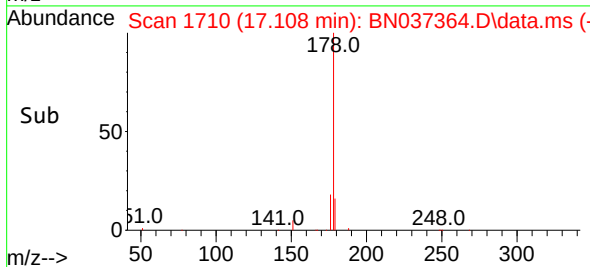
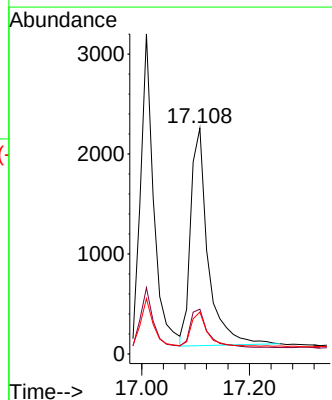
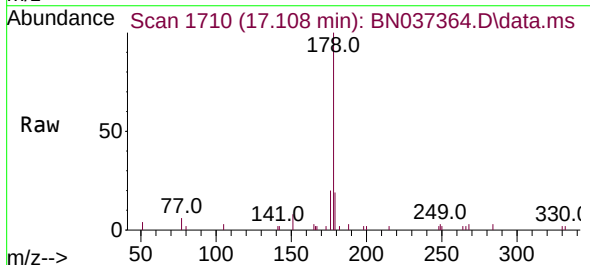
Instrument :
 BNA_N
 ClientSampleId :
 PB168563BSD

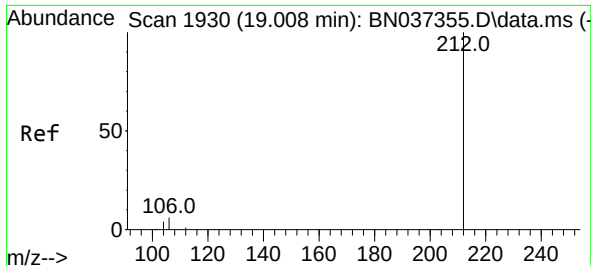
Tgt Ion:	178	Resp:	5370
Ion Ratio	Lower	Upper	
178	100		
176	19.5	15.2	22.8
179	15.8	12.9	19.3



#26
 Anthracene
 Concen: 0.362 ng
 RT: 17.108 min Scan# 1710
 Delta R.T. -0.000 min
 Lab File: BN037364.D
 Acq: 21 Jun 2025 00:04

Tgt Ion:	178	Resp:	4862
Ion Ratio	Lower	Upper	
178	100		
176	18.5	14.7	22.1
179	15.5	13.0	19.6

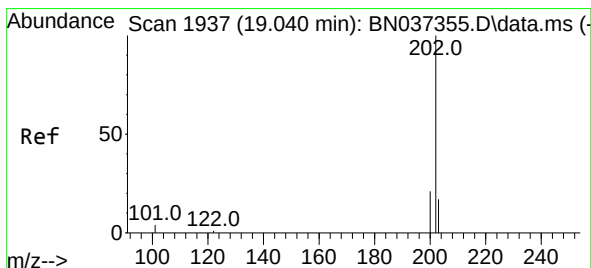
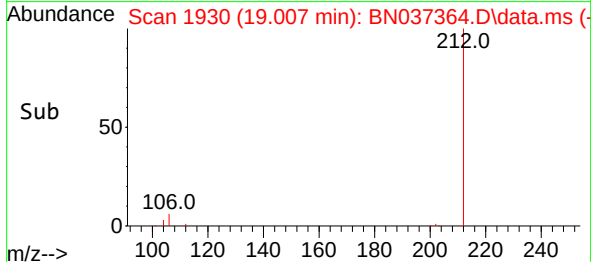
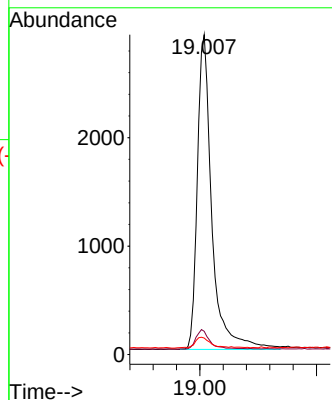
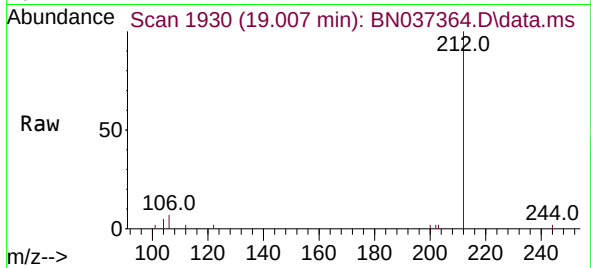




#27
Fluoranthene-d10
Concen: 0.346 ng
RT: 19.007 min Scan# 1930
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

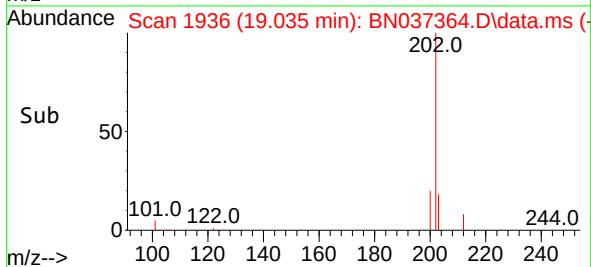
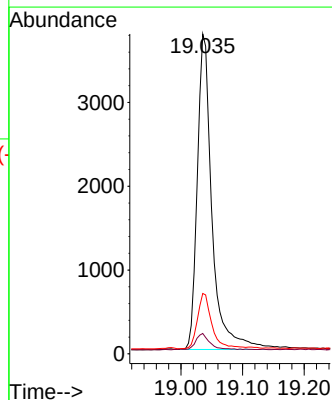
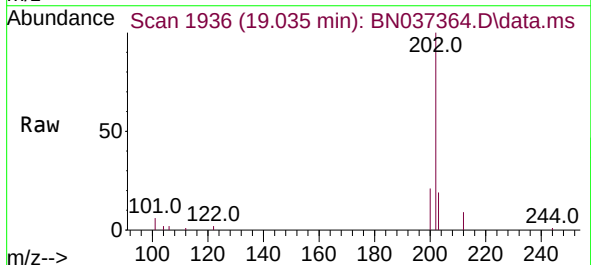
Instrument :
BNA_N
ClientSampleId :
PB168563BSD

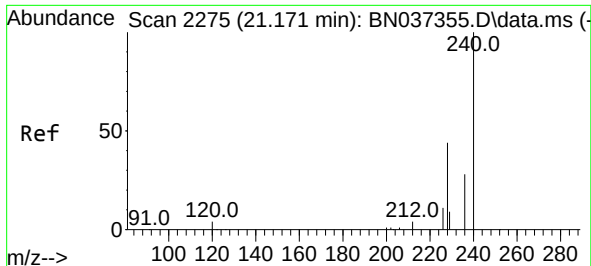
Tgt Ion:212 Resp: 5003
Ion Ratio Lower Upper
212 100
106 6.2 3.0 4.4#
104 3.7 2.0 3.0#



#28
Fluoranthene
Concen: 0.339 ng
RT: 19.035 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

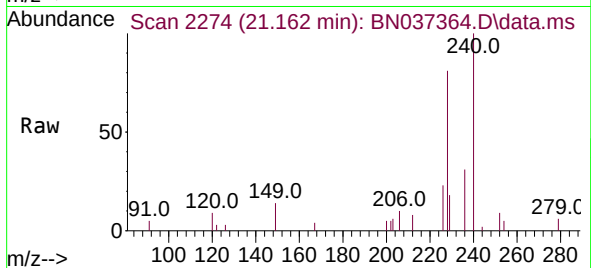
Tgt Ion:202 Resp: 6244
Ion Ratio Lower Upper
202 100
101 4.9 3.0 4.6#
203 16.9 13.7 20.5





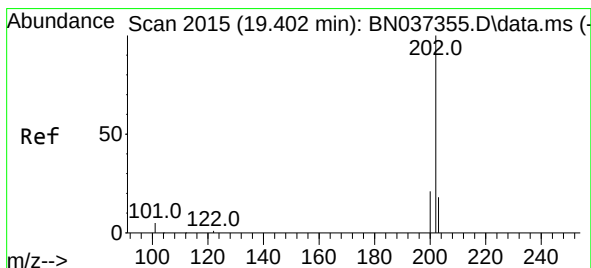
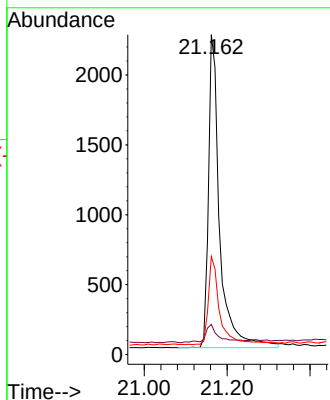
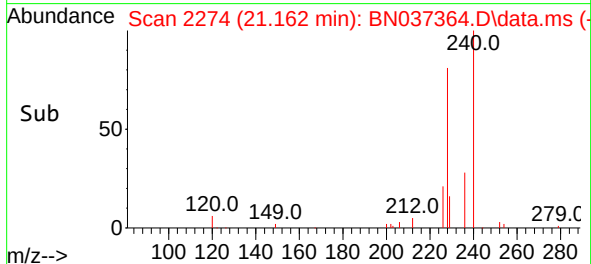
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 21
Delta R.T. -0.009 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Instrument :
BNA_N
ClientSampleId :
PB168563BSD



Tgt Ion:240 Resp: 4193

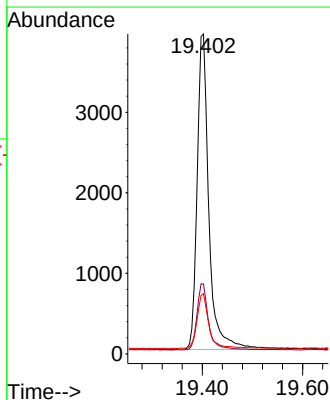
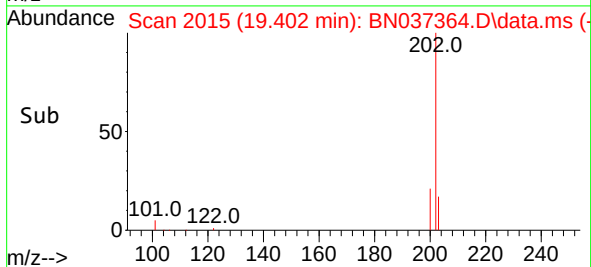
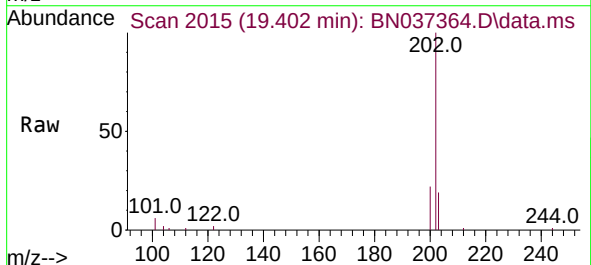
Ion	Ratio	Lower	Upper
240	100		
120	9.4	7.5	11.3
236	30.7	24.9	37.3

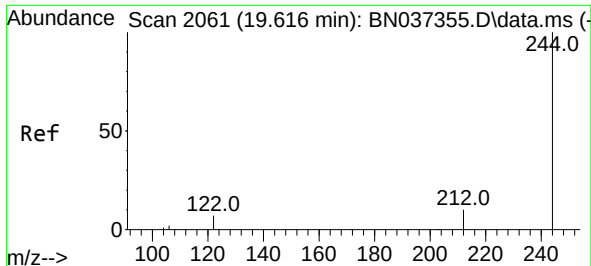


#30
Pyrene
Concen: 0.373 ng
RT: 19.402 min Scan# 2015
Delta R.T. -0.000 min
Lab File: BN037364.D
Acq: 21 Jun 2025 00:04

Tgt Ion:202 Resp: 6351

Ion	Ratio	Lower	Upper
202	100		
200	20.7	16.8	25.2
203	18.4	14.5	21.7

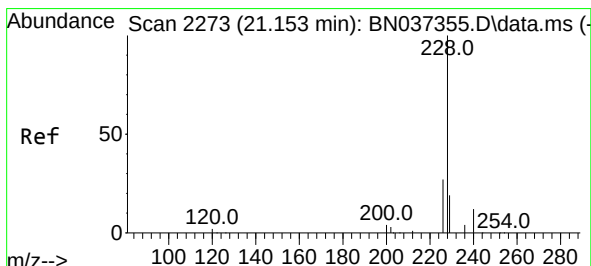
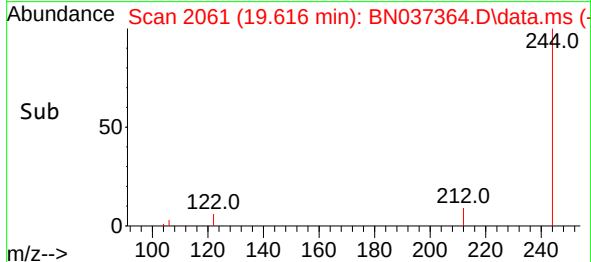
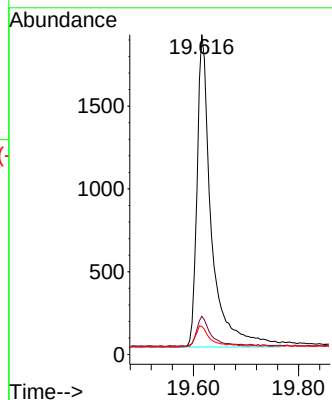
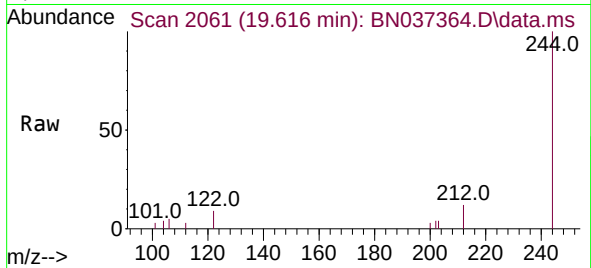




#31
 Terphenyl-d14
 Concen: 0.375 ng
 RT: 19.616 min Scan# 2061
 Delta R.T. -0.000 min
 Lab File: BN037364.D
 Acq: 21 Jun 2025 00:04

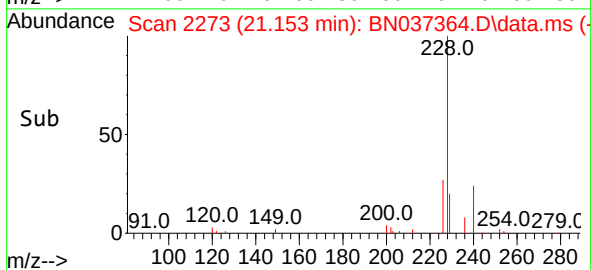
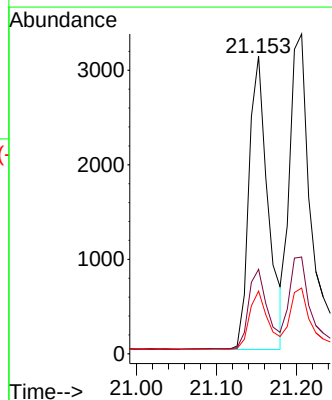
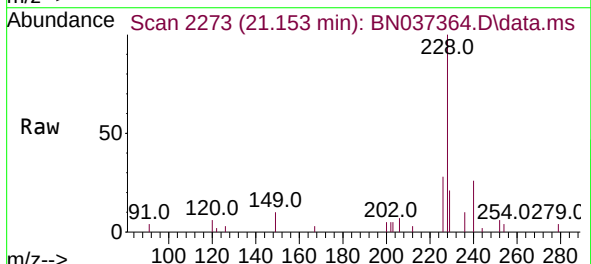
Instrument :
 BNA_N
 ClientSampleId :
 PB168563BSD

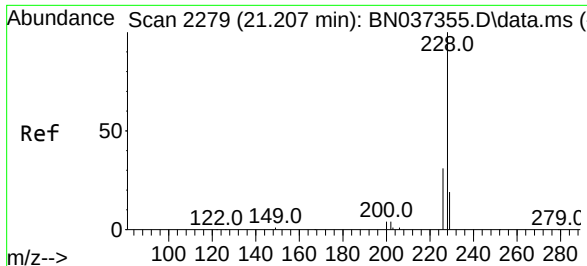
Tgt Ion:244 Resp: 3587
 Ion Ratio Lower Upper
 244 100
 212 12.0 11.1 16.7
 122 8.8 7.2 10.8



#32
 Benzo(a)anthracene
 Concen: 0.373 ng
 RT: 21.153 min Scan# 2273
 Delta R.T. -0.000 min
 Lab File: BN037364.D
 Acq: 21 Jun 2025 00:04

Tgt Ion:228 Resp: 5141
 Ion Ratio Lower Upper
 228 100
 226 28.4 23.0 34.4
 229 21.1 17.4 26.0





#33

Chrysene

Concen: 0.387 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

Instrument :

BNA_N

ClientSampleId :

PB168563BSD

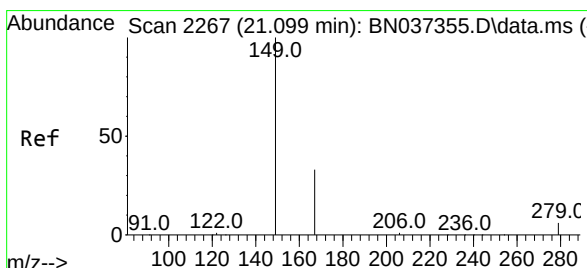
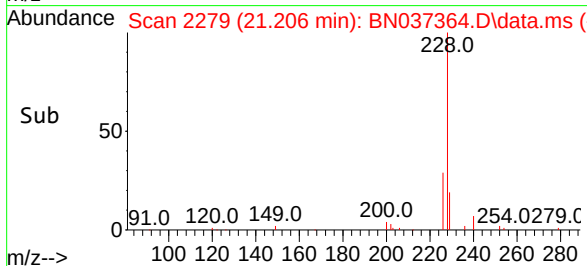
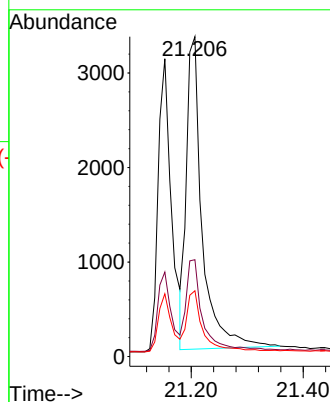
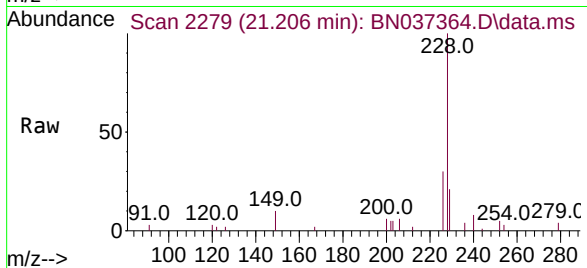
Tgt Ion:228 Resp: 6472

Ion Ratio Lower Upper

228 100

226 30.3 25.4 38.2

229 20.6 17.3 25.9



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.358 ng

RT: 21.090 min Scan# 2266

Delta R.T. -0.009 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

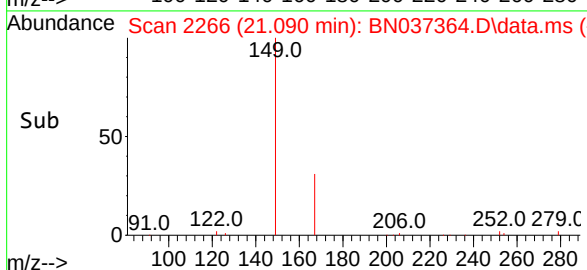
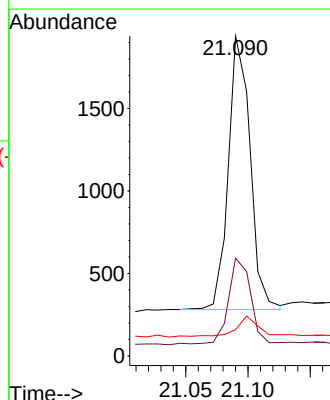
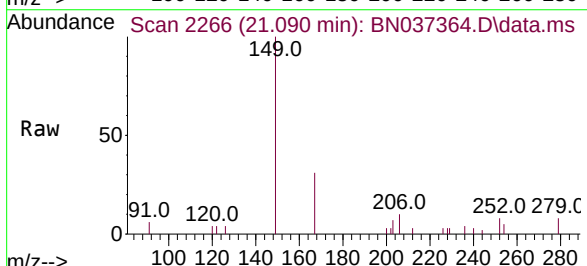
Tgt Ion:149 Resp: 2023

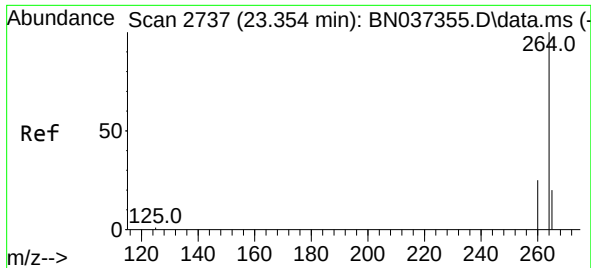
Ion Ratio Lower Upper

149 100

167 32.9 24.6 37.0

279 9.0 6.5 9.7

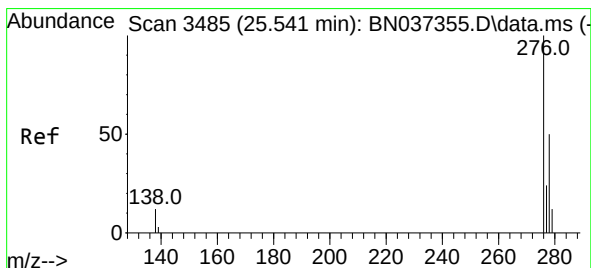
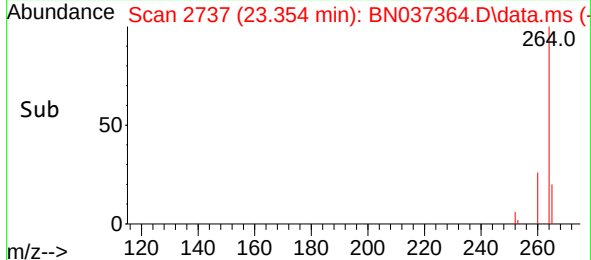
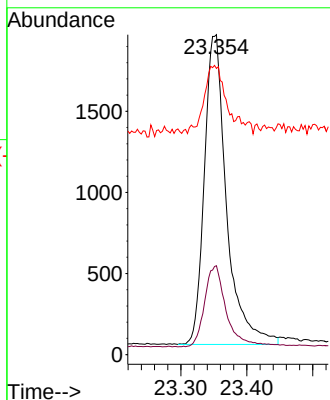
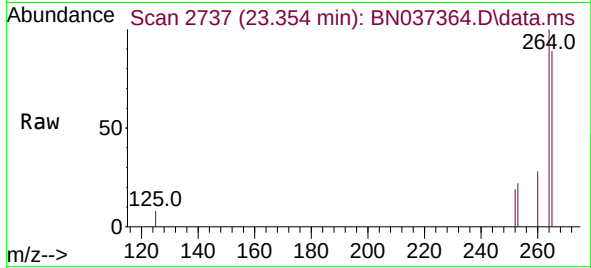




#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.354 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: BN037364.D
 Acq: 21 Jun 2025 00:04

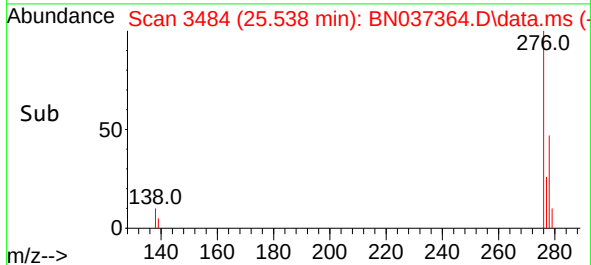
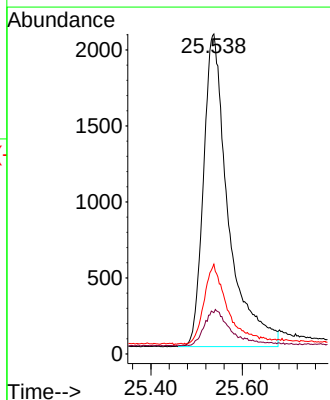
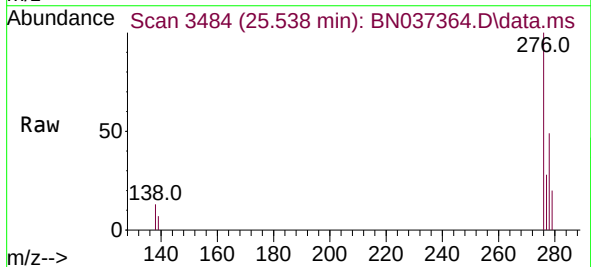
Instrument :
 BNA_N
 ClientSampleId :
 PB168563BSD

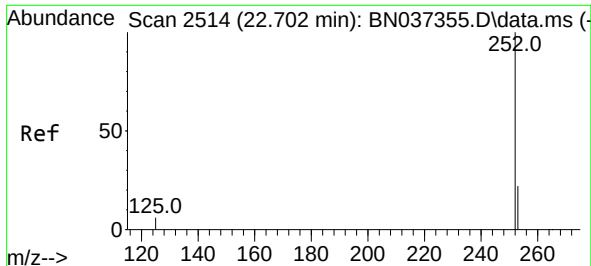
Tgt Ion:264 Resp: 4470
 Ion Ratio Lower Upper
 264 100
 260 27.8 21.4 32.2
 265 89.4 71.4 107.0



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.386 ng
 RT: 25.538 min Scan# 3484
 Delta R.T. -0.003 min
 Lab File: BN037364.D
 Acq: 21 Jun 2025 00:04

Tgt Ion:276 Resp: 7744
 Ion Ratio Lower Upper
 276 100
 138 10.7 2.2 3.2#
 277 24.0 17.1 25.7





#37

Benzo(b)fluoranthene

Concen: 0.355 ng

RT: 22.696 min Scan# 2512

Delta R.T. -0.006 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

Instrument :

BNA_N

ClientSampleId :

PB168563BSD

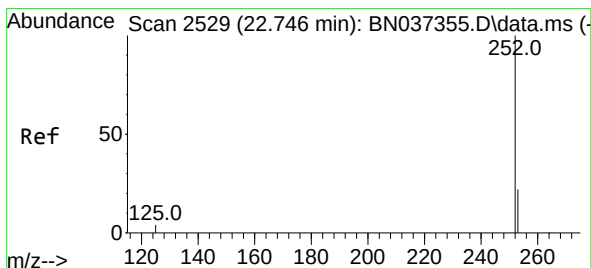
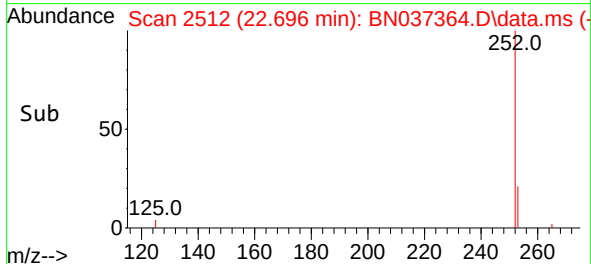
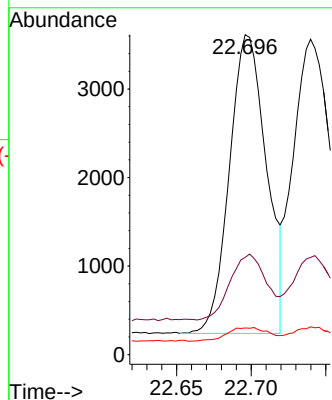
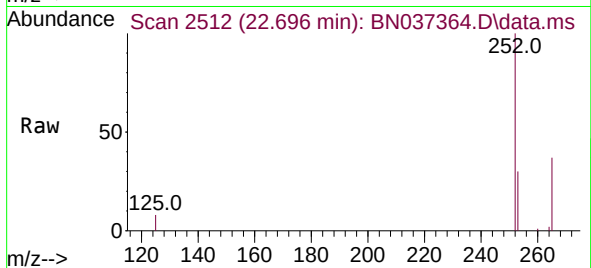
Tgt Ion:252 Resp: 5838

Ion Ratio Lower Upper

252 100

253 30.4 26.6 40.0

125 8.3 6.1 9.1



#38

Benzo(k)fluoranthene

Concen: 0.389 ng

RT: 22.740 min Scan# 2527

Delta R.T. -0.006 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

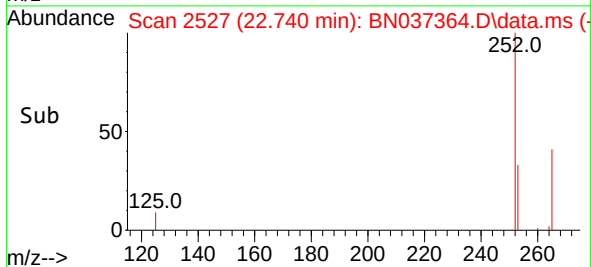
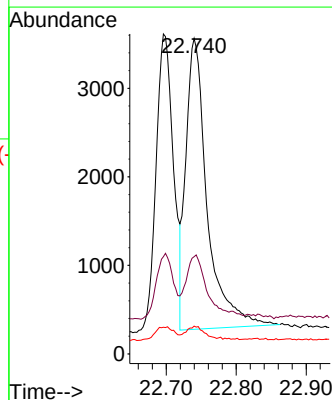
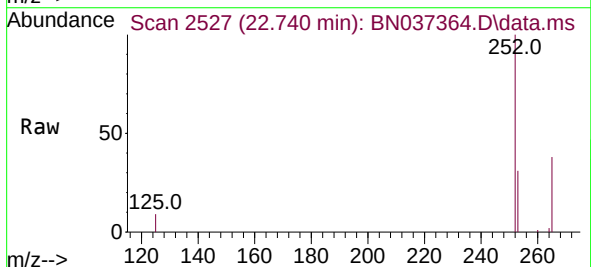
Tgt Ion:252 Resp: 6945

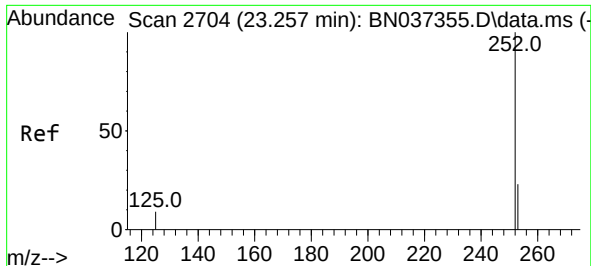
Ion Ratio Lower Upper

252 100

253 30.8 26.7 40.1

125 8.8 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.399 ng

RT: 23.254 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037364.D

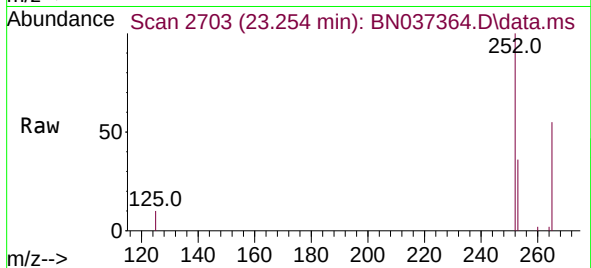
Acq: 21 Jun 2025 00:04

Instrument :

BNA_N

ClientSampleId :

PB168563BSD



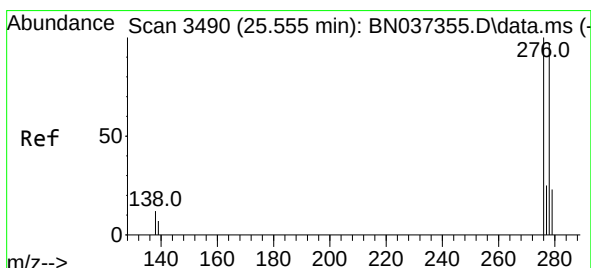
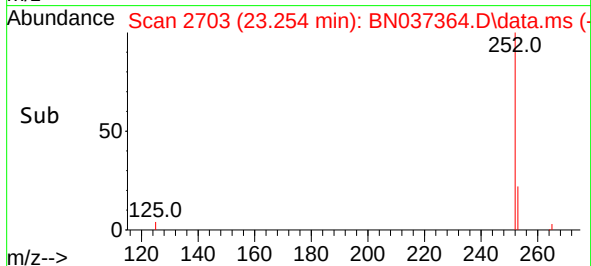
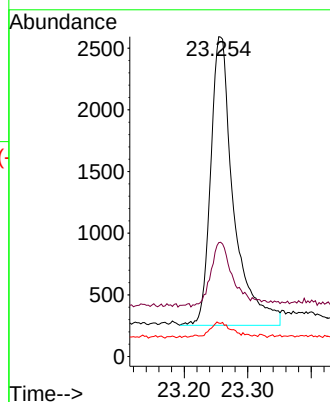
Tgt Ion:252 Resp: 5888

Ion Ratio Lower Upper

252 100

253 35.6 31.6 47.4

125 10.5 8.4 12.6



#40

Dibenzo(a,h)anthracene

Concen: 0.392 ng

RT: 25.552 min Scan# 3489

Delta R.T. -0.003 min

Lab File: BN037364.D

Acq: 21 Jun 2025 00:04

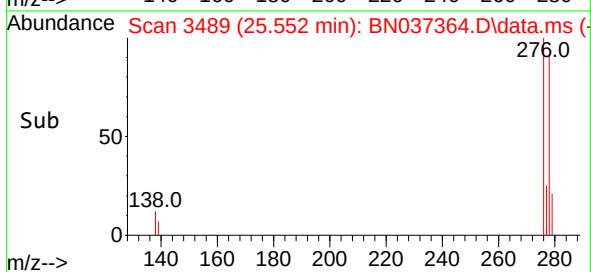
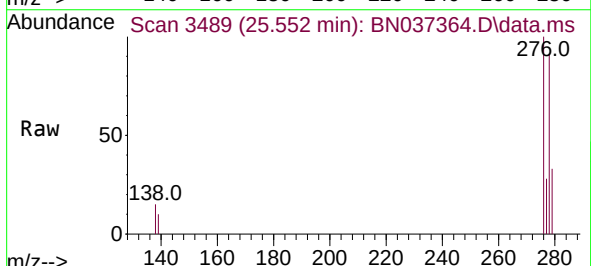
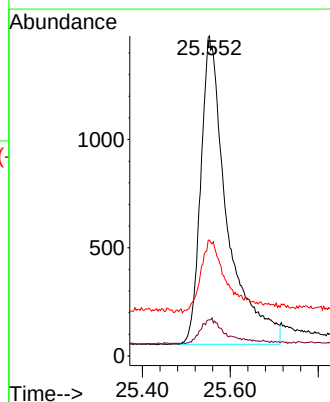
Tgt Ion:278 Resp: 5912

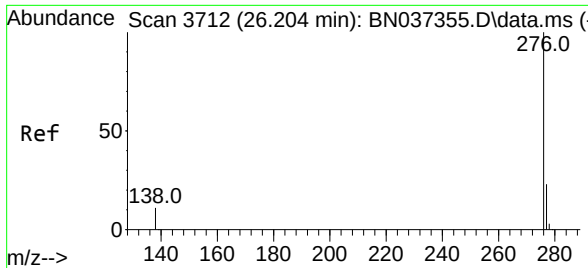
Ion Ratio Lower Upper

278 100

139 11.3 10.2 15.4

279 36.2 35.6 53.4





#41

Benzo(g,h,i)perylene

Concen: 0.393 ng

RT: 26.199 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037364.D

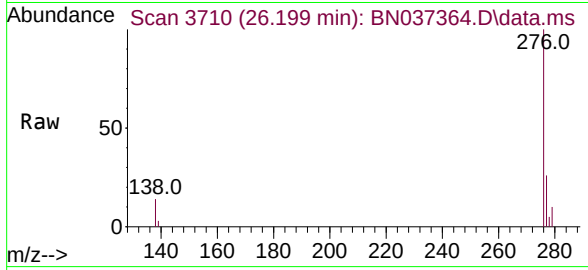
Acq: 21 Jun 2025 00:04

Instrument :

BNA_N

ClientSampleId :

PB168563BSD



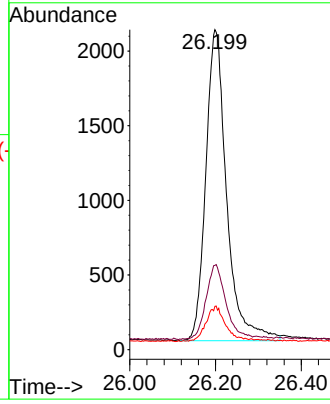
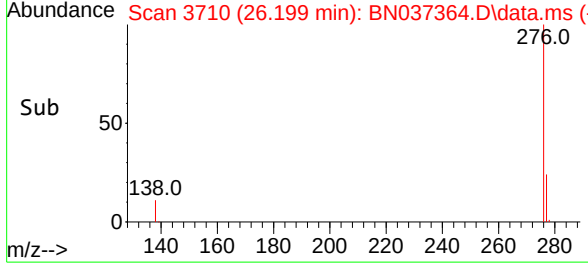
Tgt Ion:276 Resp: 7039

Ion Ratio Lower Upper

276 100

277 26.4 22.7 34.1

138 13.5 9.4 14.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
 Data File : BN037365.D
 Acq On : 21 Jun 2025 01:17
 Operator : RC/JU
 Sample : SSTDCCC0.4
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

Quant Time: Jun 21 01:41:01 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 20 23:41:54 2025
 Response via : Initial Calibration

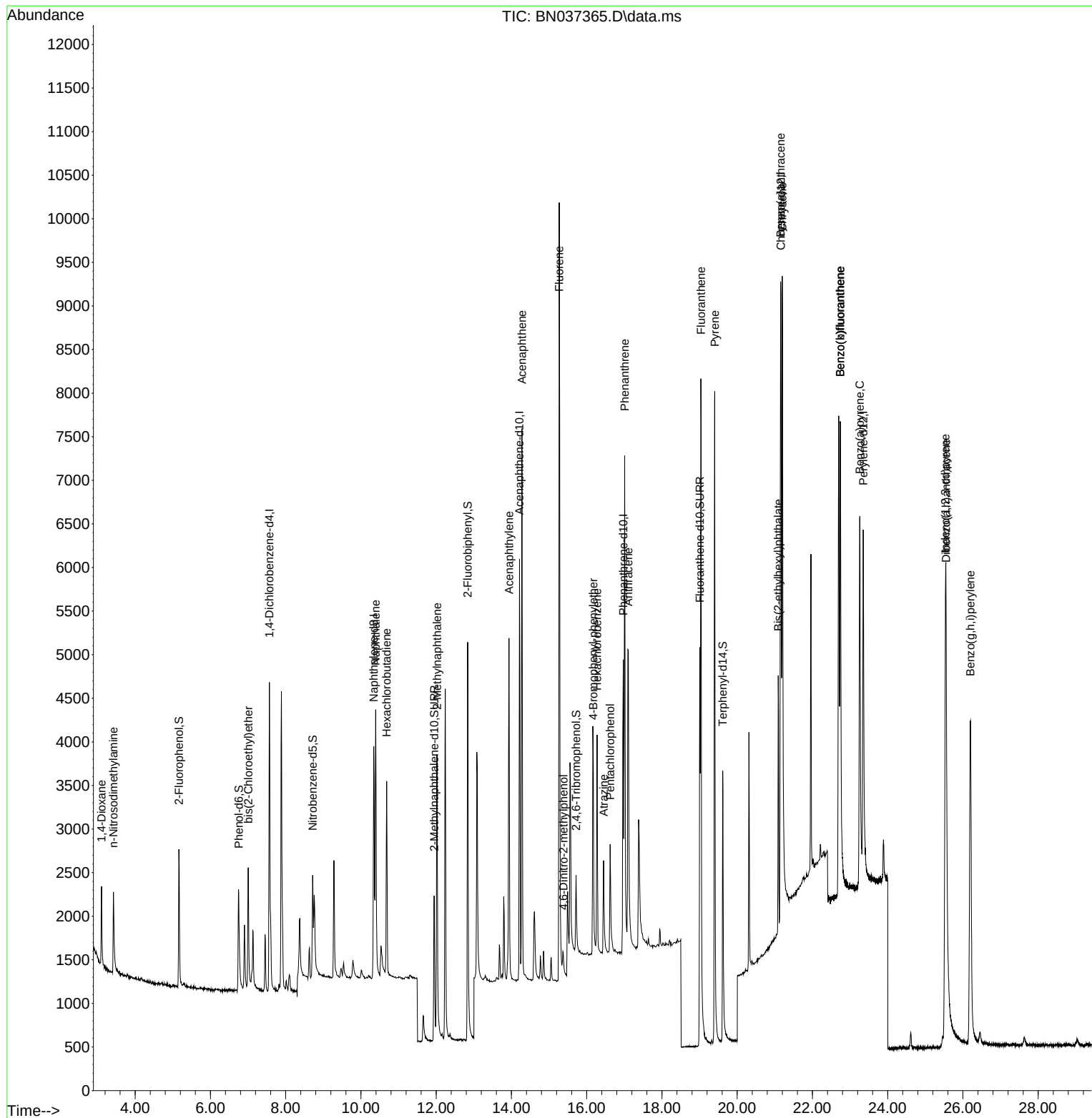
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1894	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4150	0.400	ng	# 0.00
13) Acenaphthene-d10	14.213	164	2786	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5748	0.400	ng	# 0.00
29) Chrysene-d12	21.162	240	5140	0.400	ng	0.00
35) Perylene-d12	23.351	264	5682	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	1402	0.370	ng	0.00
5) Phenol-d6	6.752	99	1426	0.366	ng	0.00
8) Nitrobenzene-d5	8.717	82	1321	0.394	ng	0.00
11) 2-Methylnaphthalene-d10	11.945	152	2780	0.413	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	608	0.372	ng	0.00
15) 2-Fluorobiphenyl	12.838	172	4951	0.405	ng	0.00
27) Fluoranthene-d10	19.008	212	6836	0.414	ng	0.00
31) Terphenyl-d14	19.616	244	4639	0.396	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	3.104	88	755	0.392	ng	95
3) n-Nitrosodimethylamine	3.422	42	701	0.397	ng	# 78
6) bis(2-Chloroethyl)ether	7.004	93	1274	0.368	ng	100
9) Naphthalene	10.394	128	4308	0.393	ng	# 90
10) Hexachlorobutadiene	10.682	225	1876	0.434	ng	# 100
12) 2-Methylnaphthalene	12.021	142	2941	0.385	ng	93
16) Acenaphthylene	13.935	152	4498	0.384	ng	98
17) Acenaphthene	14.277	154	2949	0.383	ng	98
18) Fluorene	15.272	166	4167	0.385	ng	99
20) 4,6-Dinitro-2-methylph...	15.379	198	483	0.350	ng	85
21) 4-Bromophenyl-phenylether	16.177	248	1621	0.396	ng	# 94
22) Hexachlorobenzene	16.276	284	1819	0.408	ng	99
23) Atrazine	16.450	200	1187	0.364	ng	# 87
24) Pentachlorophenol	16.624	266	805	0.363	ng	96
25) Phenanthrene	17.009	178	6282	0.377	ng	99
26) Anthracene	17.108	178	5522	0.360	ng	99
28) Fluoranthene	19.036	202	8102	0.385	ng	98
30) Pyrene	19.403	202	8105	0.388	ng	100
32) Benzo(a)anthracene	21.153	228	6359	0.376	ng	98
33) Chrysene	21.198	228	8015	0.391	ng	98
34) Bis(2-ethylhexyl)phtha...	21.090	149	2672	0.385	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.535	276	9725	0.382	ng	# 92
37) Benzo(b)fluoranthene	22.740	252	9018	0.431	ng	94
38) Benzo(k)fluoranthene	22.740	252	9018	0.398	ng	94
39) Benzo(a)pyrene	23.255	252	7122	0.380	ng	# 90
40) Dibenzo(a,h)anthracene	25.553	278	7424	0.388	ng	# 85
41) Benzo(g,h,i)perylene	26.199	276	8859	0.389	ng	95

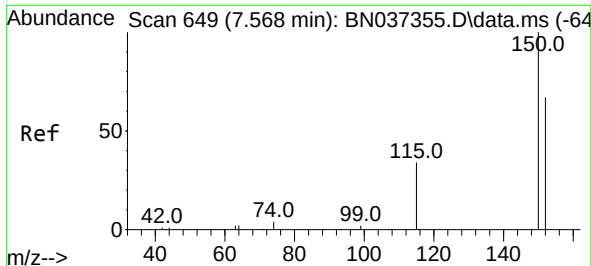
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062125\
Data File : BN037365.D
Acq On : 21 Jun 2025 01:17
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

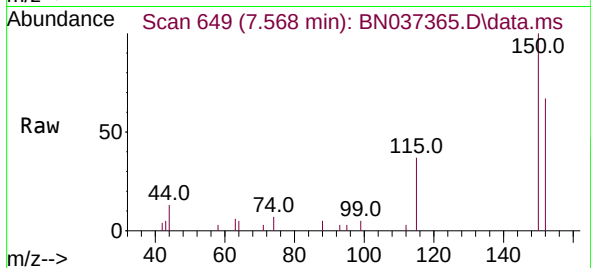
Quant Time: Jun 21 01:41:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062125.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Jun 20 23:41:54 2025
Response via : Initial Calibration



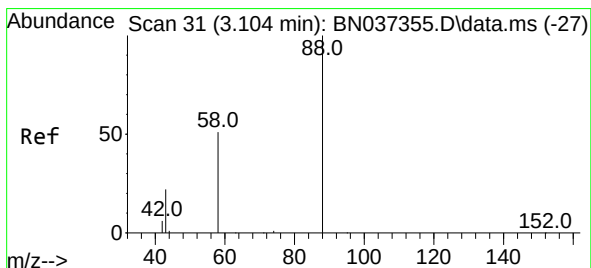
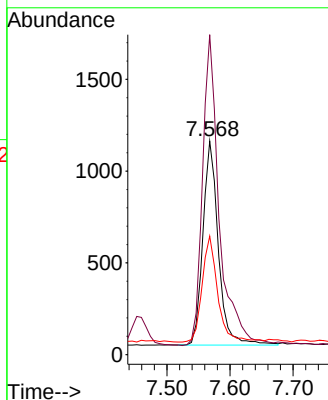
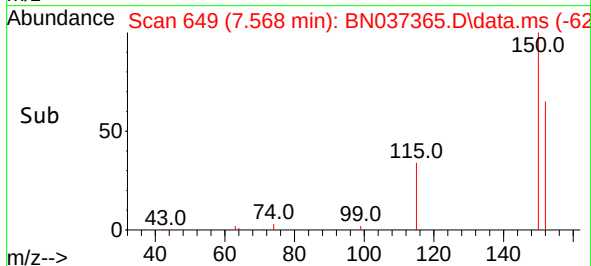


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.568 min Scan# 64
 Delta R.T. -0.000 min
 Lab File: BN037365.D
 Acq: 21 Jun 2025 01:17

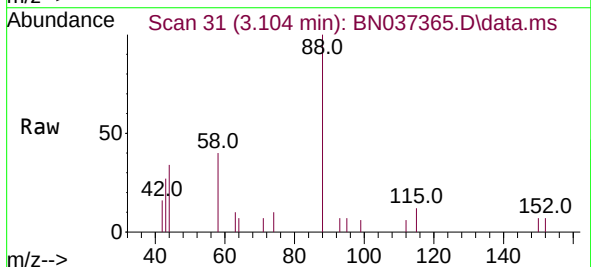
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC



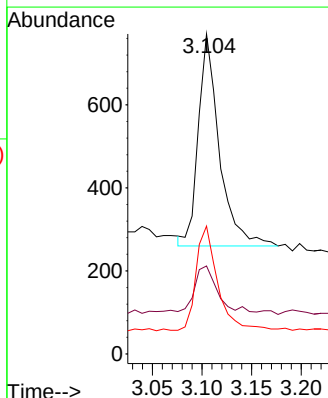
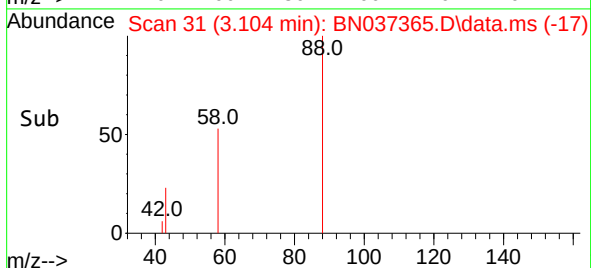
Tgt Ion:152 Resp: 1894
 Ion Ratio Lower Upper
 152 100
 150 149.8 112.7 169.1
 115 55.5 45.9 68.9

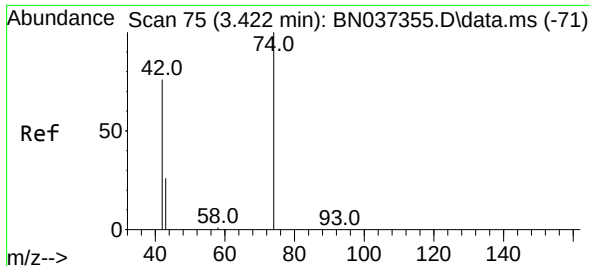


#2
 1,4-Dioxane
 Concen: 0.392 ng
 RT: 3.104 min Scan# 31
 Delta R.T. 0.000 min
 Lab File: BN037365.D
 Acq: 21 Jun 2025 01:17



Tgt Ion: 88 Resp: 755
 Ion Ratio Lower Upper
 88 100
 43 22.8 21.0 31.6
 58 49.9 38.0 57.0

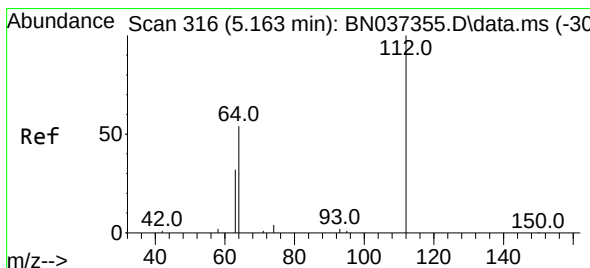
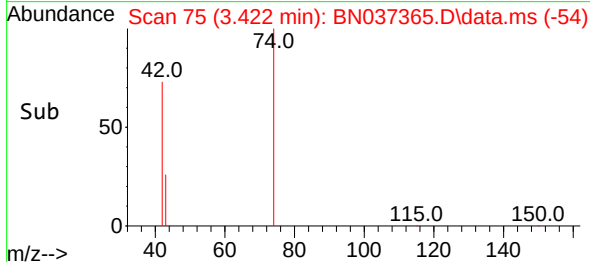
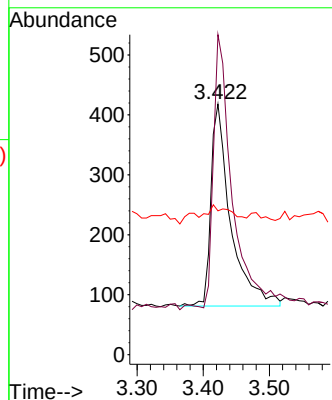
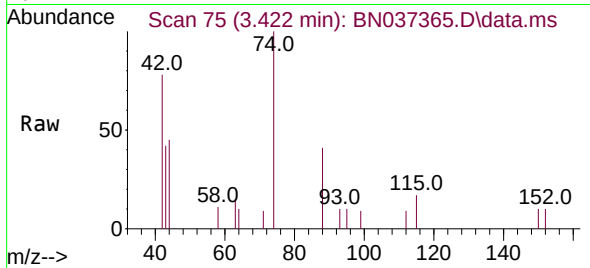




#3
 n-Nitrosodimethylamine
 Concen: 0.397 ng
 RT: 3.422 min Scan# 75
 Delta R.T. 0.000 min
 Lab File: BN037365.D
 Acq: 21 Jun 2025 01:17

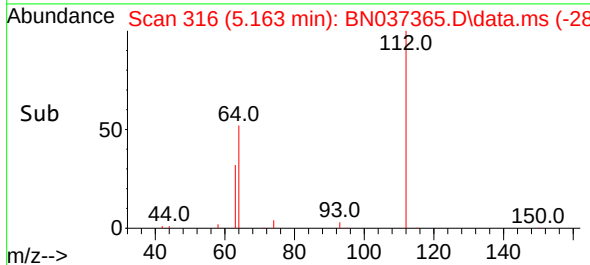
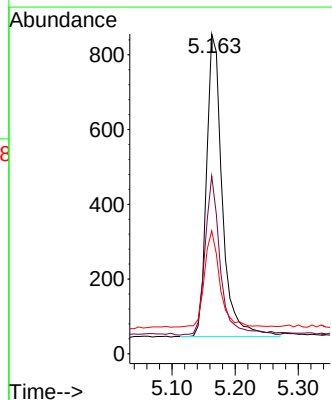
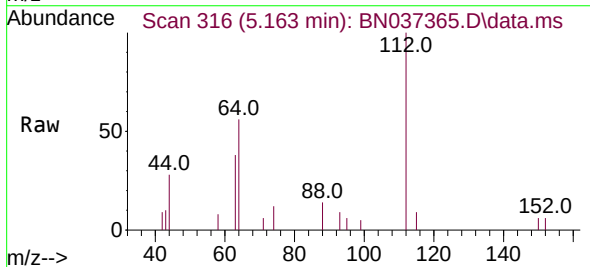
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

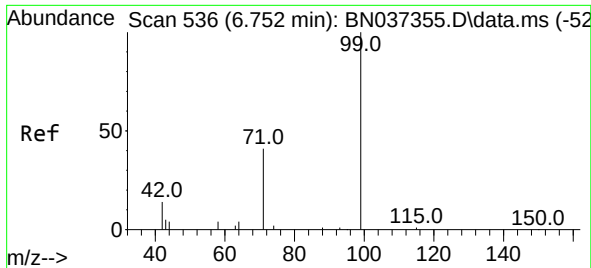
Tgt Ion:	42	Resp:	701
Ion	Ratio	Lower	Upper
42	100		
74	129.2	84.3	126.5#
44	9.3	5.0	7.4#



#4
 2-Fluorophenol
 Concen: 0.370 ng
 RT: 5.163 min Scan# 316
 Delta R.T. 0.000 min
 Lab File: BN037365.D
 Acq: 21 Jun 2025 01:17

Tgt Ion:	112	Resp:	1402
Ion	Ratio	Lower	Upper
112	100		
64	52.2	38.7	58.1
63	31.0	26.4	39.6

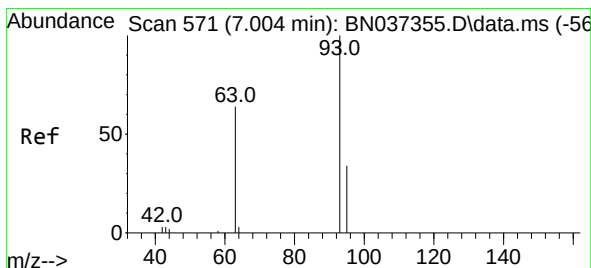
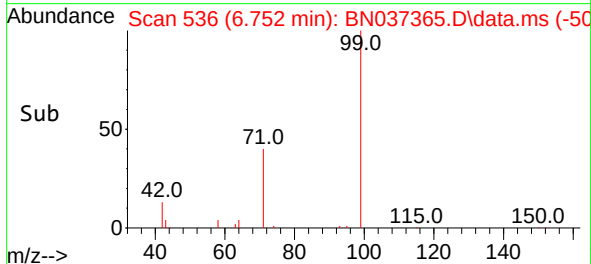
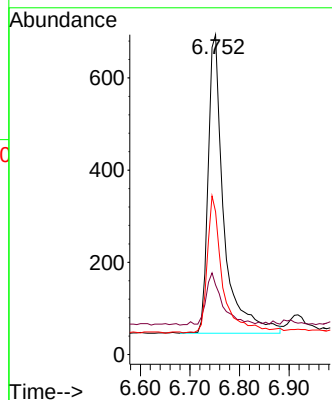
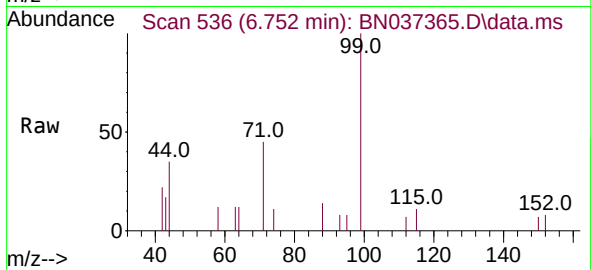




#5
Phenol-d6
Concen: 0.366 ng
RT: 6.752 min Scan# 536
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

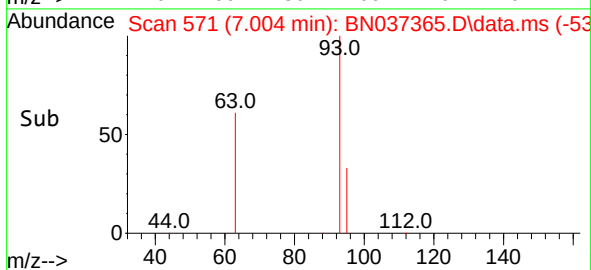
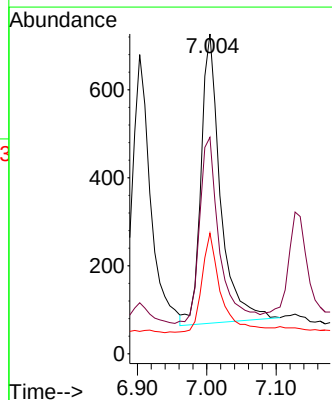
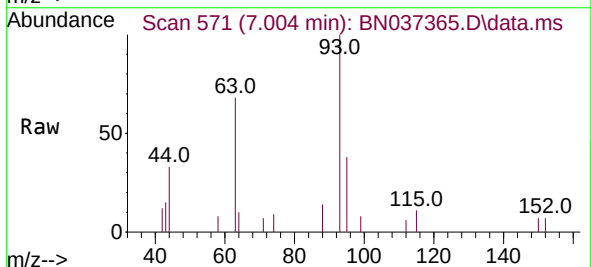
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

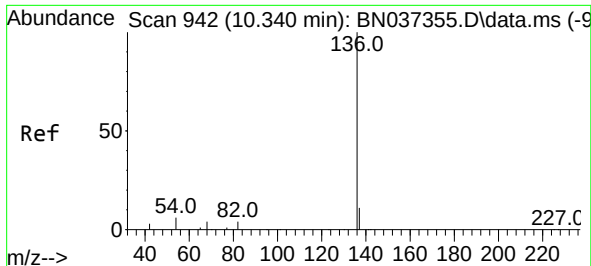
Tgt Ion: 99 Resp: 1426
Ion Ratio Lower Upper
99 100
42 18.2 19.8 29.8#
71 44.0 42.6 64.0



#6
bis(2-Chloroethyl)ether
Concen: 0.368 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion: 93 Resp: 1274
Ion Ratio Lower Upper
93 100
63 66.6 53.2 79.8
95 33.8 27.3 40.9

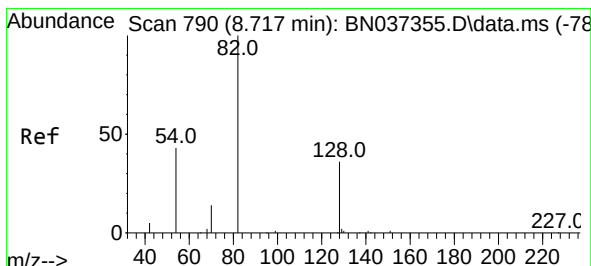
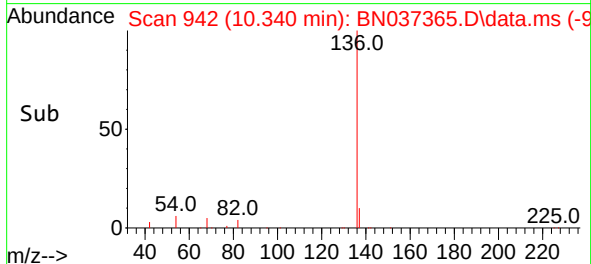
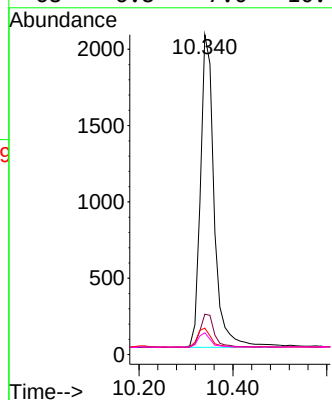
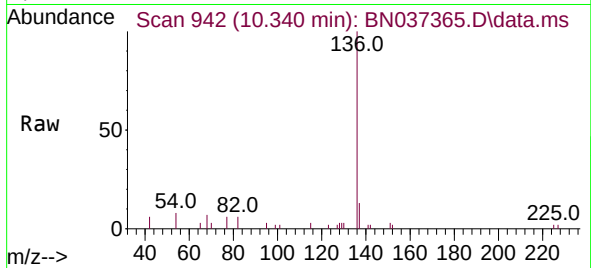




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

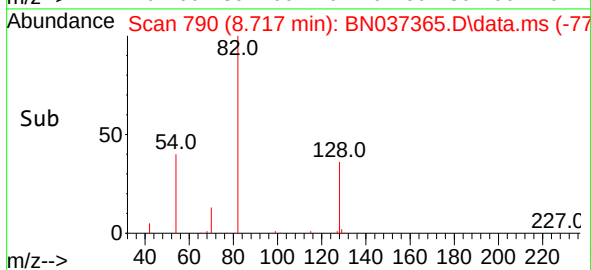
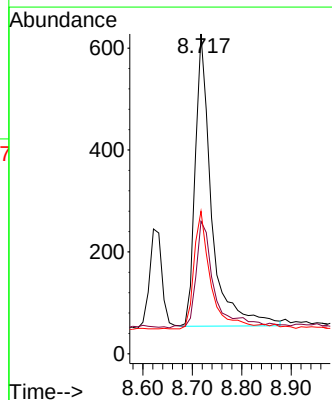
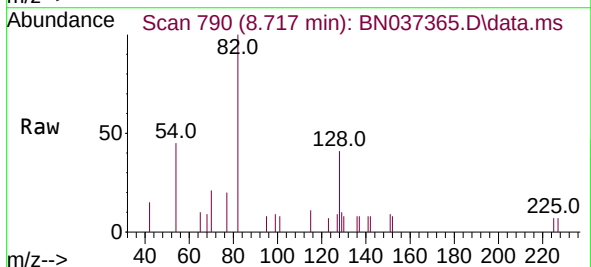
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

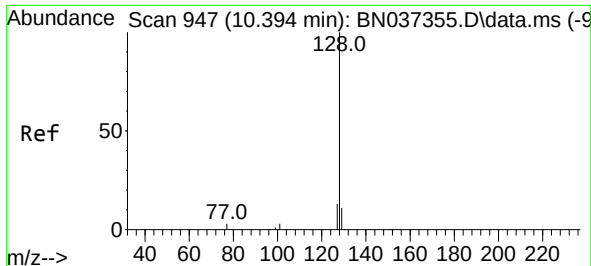
Tgt Ion:	136	Resp:	4150
Ion	Ratio	Lower	Upper
136	100		
137	12.6	12.2	18.2
54	8.3	8.8	13.2#
68	6.8	7.0	10.4#



#8
Nitrobenzene-d5
Concen: 0.394 ng
RT: 8.717 min Scan# 790
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:	82	Resp:	1321
Ion	Ratio	Lower	Upper
82	100		
128	41.4	42.5	63.7#
54	44.6	43.2	64.8

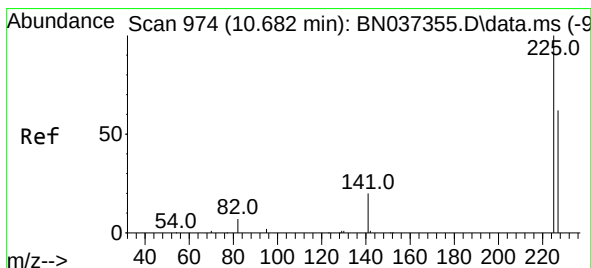
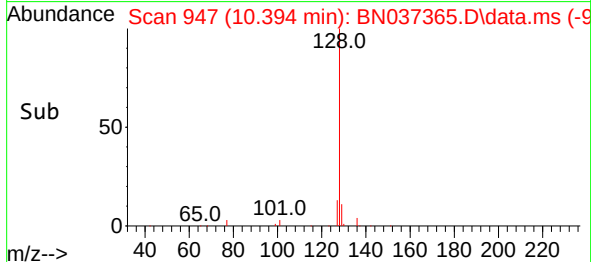
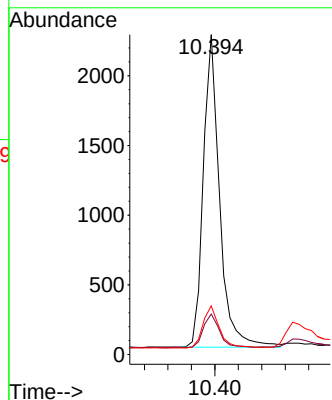
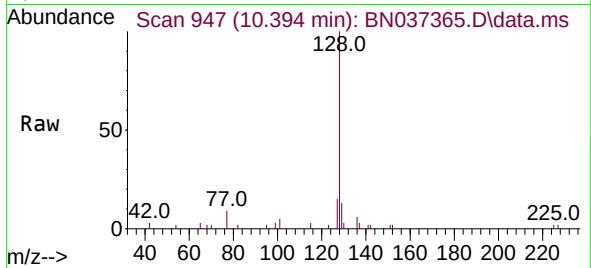




#9
Naphthalene
Concen: 0.393 ng
RT: 10.394 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

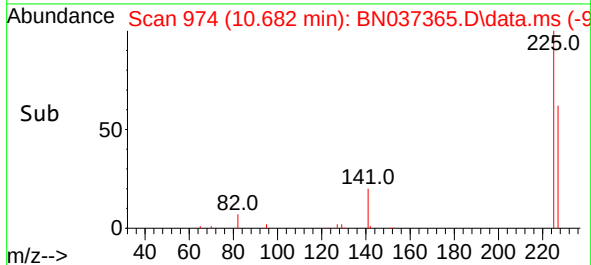
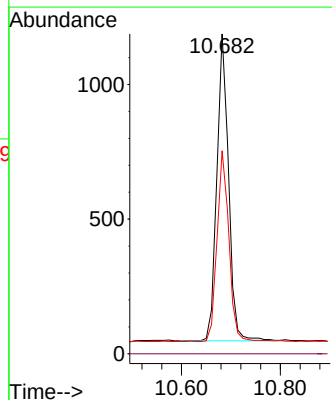
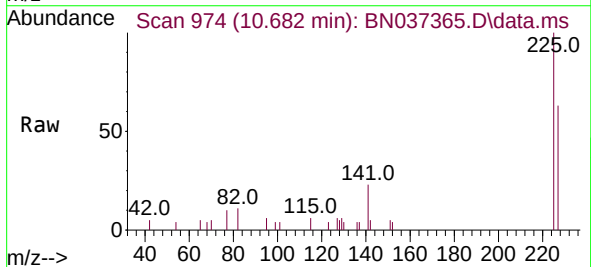
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

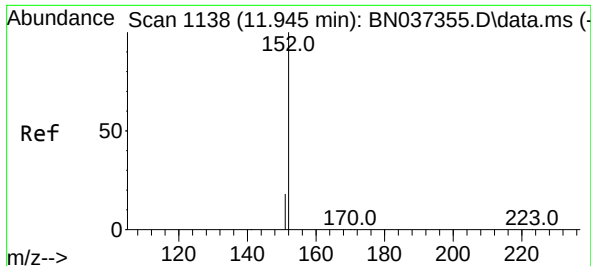
Tgt Ion:128 Resp: 4308
Ion Ratio Lower Upper
128 100
129 12.7 14.0 21.0#
127 15.2 15.8 23.8#



#10
Hexachlorobutadiene
Concen: 0.434 ng
RT: 10.682 min Scan# 974
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:225 Resp: 1876
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 62.9 50.3 75.5

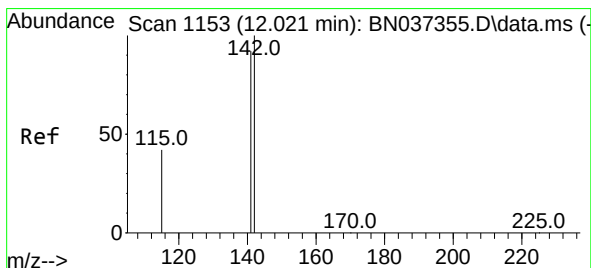
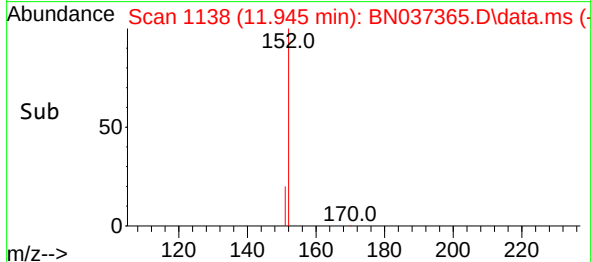
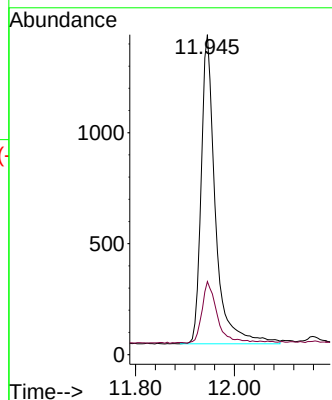
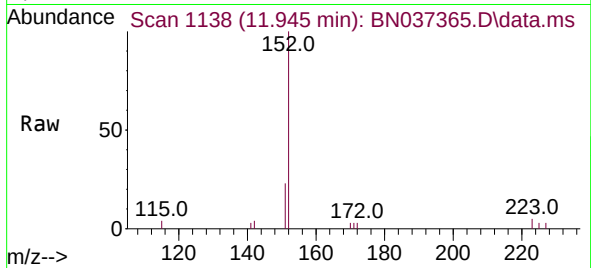




#11
2-Methylnaphthalene-d10
Concen: 0.413 ng
RT: 11.945 min Scan# 1138
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

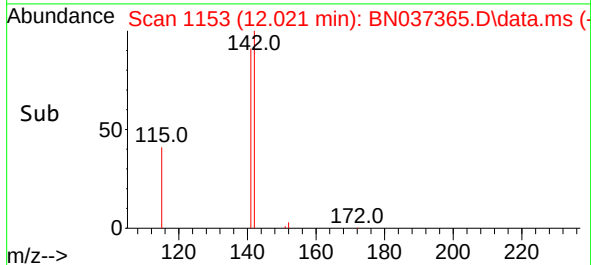
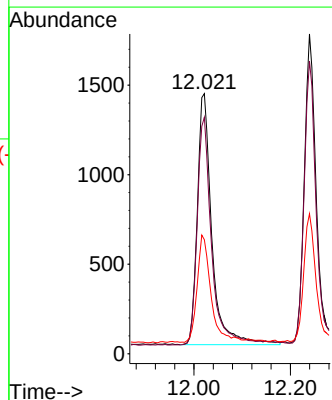
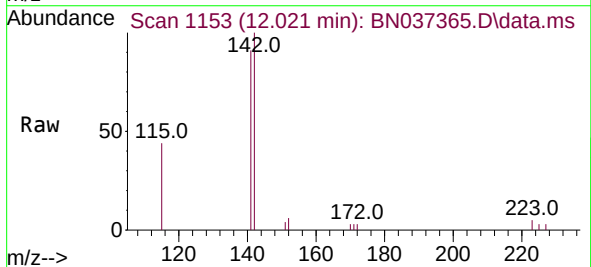
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

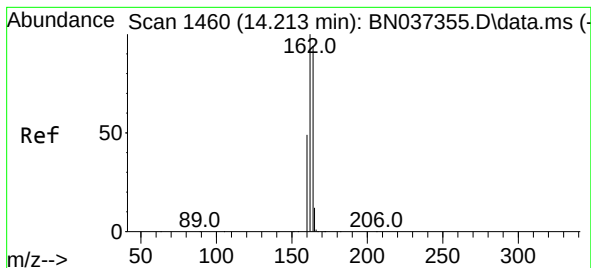
Tgt Ion:152 Resp: 2780
Ion Ratio Lower Upper
152 100
151 21.7 17.4 26.0



#12
2-Methylnaphthalene
Concen: 0.385 ng
RT: 12.021 min Scan# 1153
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:142 Resp: 2941
Ion Ratio Lower Upper
142 100
141 90.9 70.2 105.2
115 43.9 43.0 64.4





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.213 min Scan# 1460

Delta R.T. 0.000 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

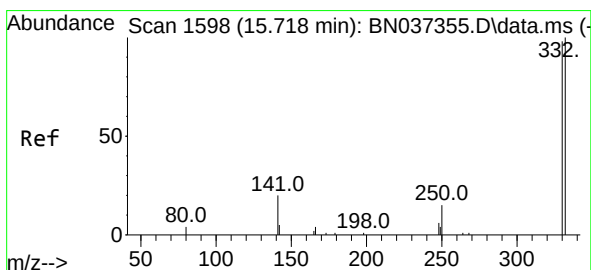
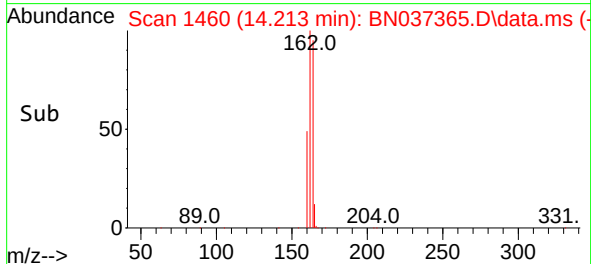
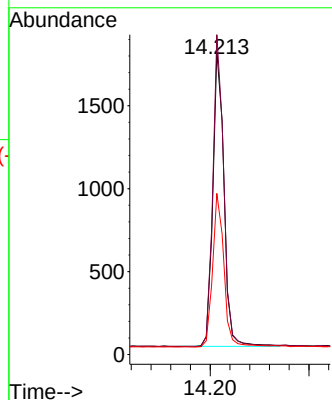
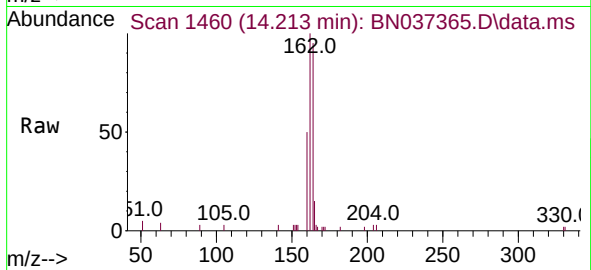
Tgt Ion:164 Resp: 2786

Ion Ratio Lower Upper

164 100

162 105.6 81.5 122.3

160 53.2 43.0 64.4



#14

2,4,6-Tribromophenol

Concen: 0.372 ng

RT: 15.718 min Scan# 1598

Delta R.T. 0.000 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

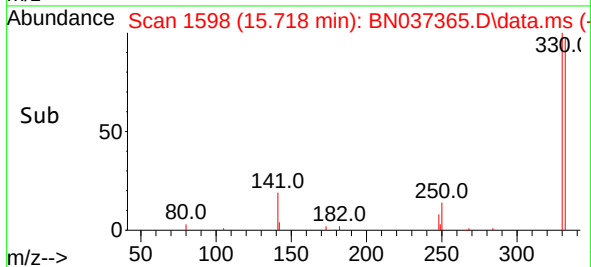
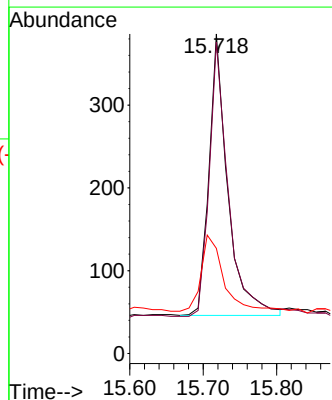
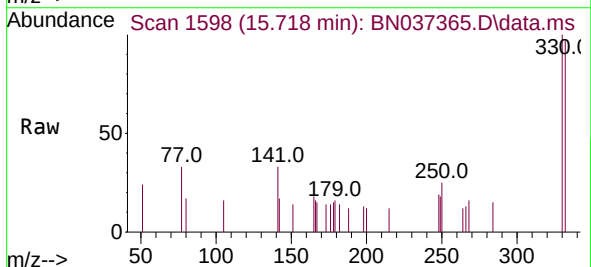
Tgt Ion:330 Resp: 608

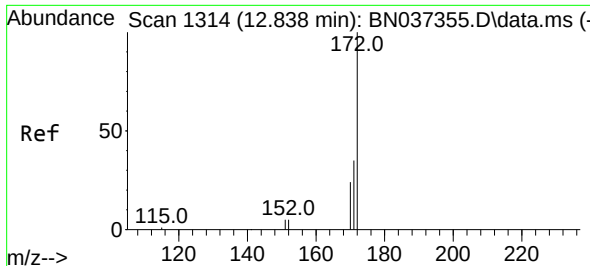
Ion Ratio Lower Upper

330 100

332 102.3 78.4 117.6

141 35.9 24.4 36.6

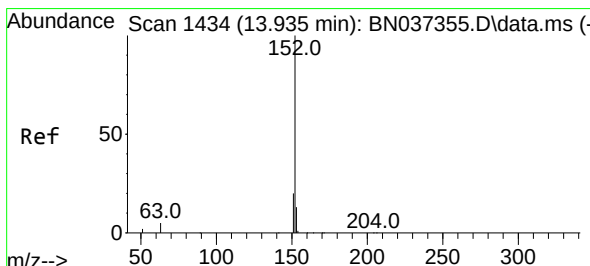
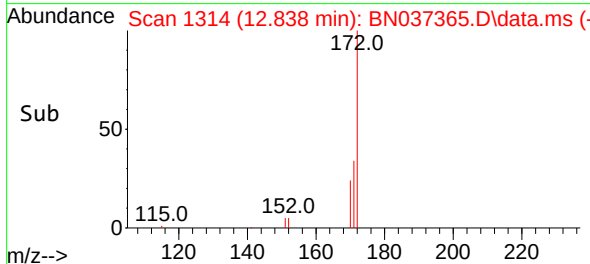
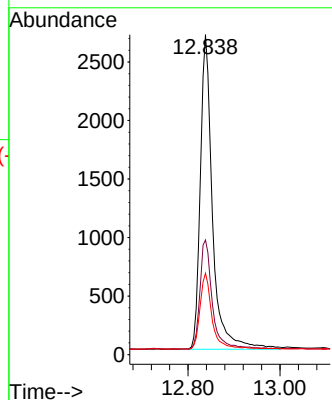
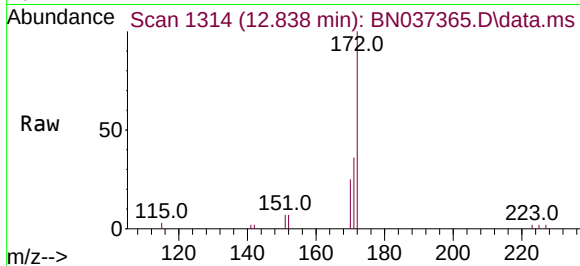




#15
2-Fluorobiphenyl
Concen: 0.405 ng
RT: 12.838 min Scan# 1314
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

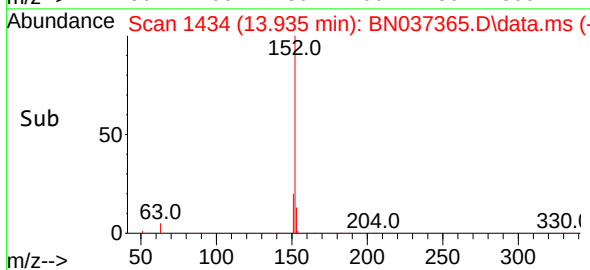
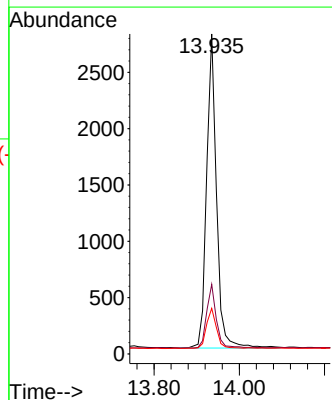
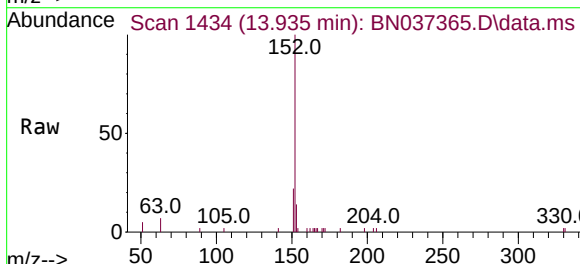
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

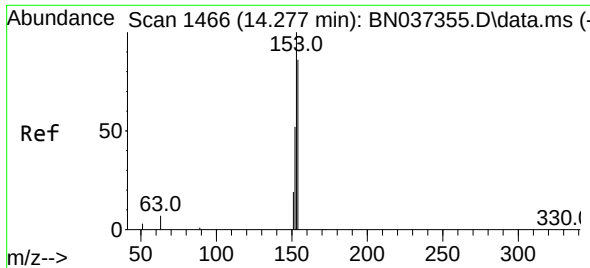
Tgt Ion:	172	Resp:	4951
Ion Ratio	Lower	Upper	
172	100		
171	35.8	30.8	46.2
170	25.4	21.9	32.9



#16
Acenaphthylene
Concen: 0.384 ng
RT: 13.935 min Scan# 1434
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:	152	Resp:	4498
Ion Ratio	Lower	Upper	
152	100		
151	19.8	16.6	24.8
153	13.1	10.2	15.2

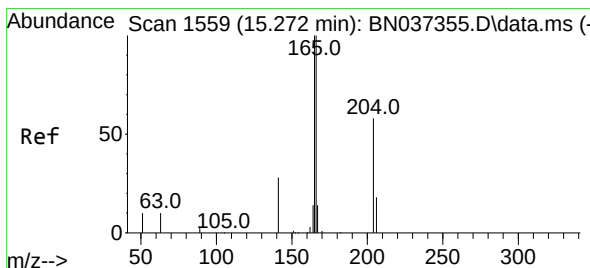
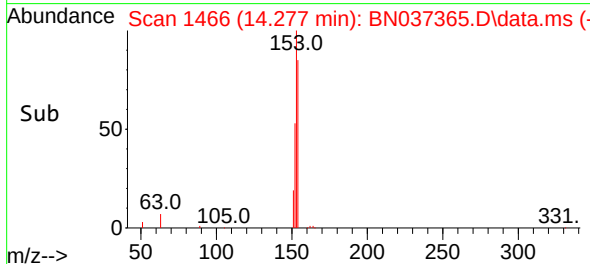
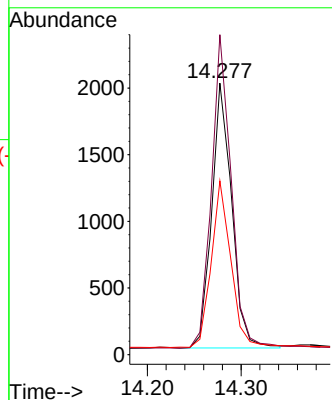
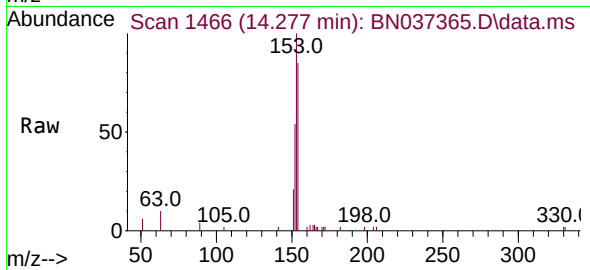




#17
Acenaphthene
Concen: 0.383 ng
RT: 14.277 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

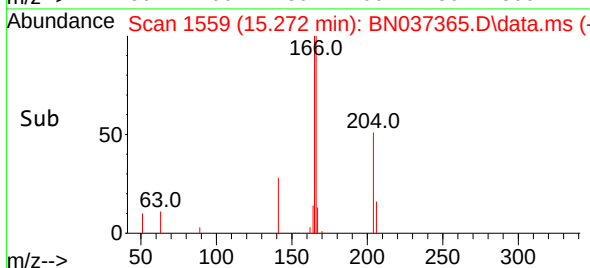
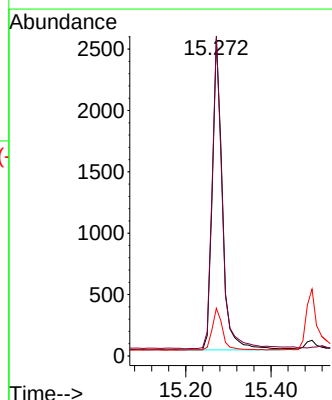
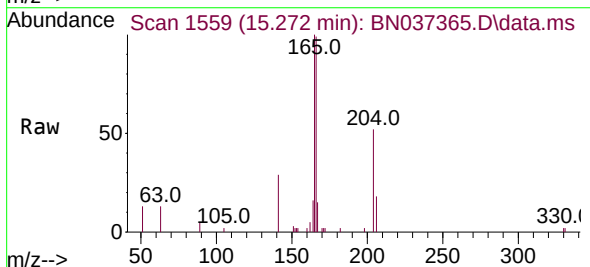
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

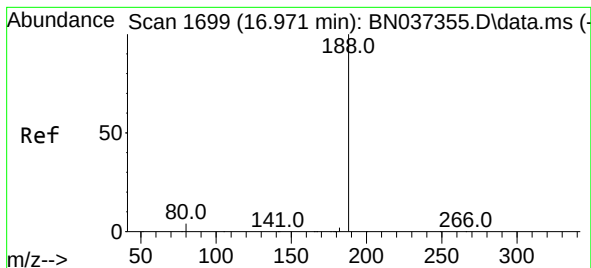
Tgt Ion:154 Resp: 2949
Ion Ratio Lower Upper
154 100
153 118.3 93.1 139.7
152 63.2 48.6 73.0



#18
Fluorene
Concen: 0.385 ng
RT: 15.272 min Scan# 1559
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:166 Resp: 4167
Ion Ratio Lower Upper
166 100
165 100.6 79.5 119.3
167 13.8 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

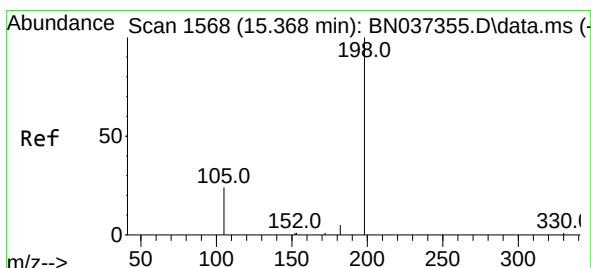
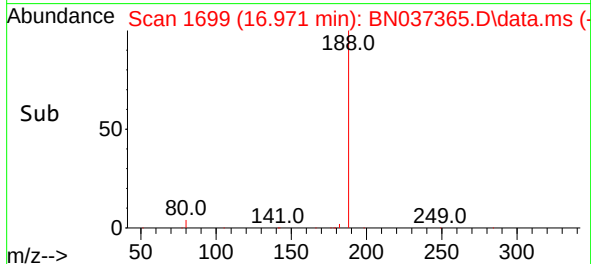
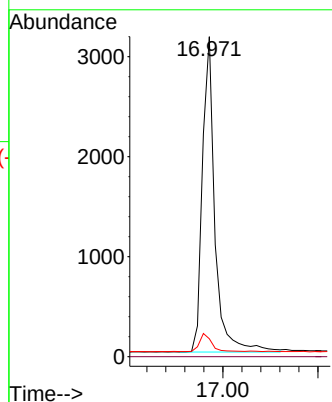
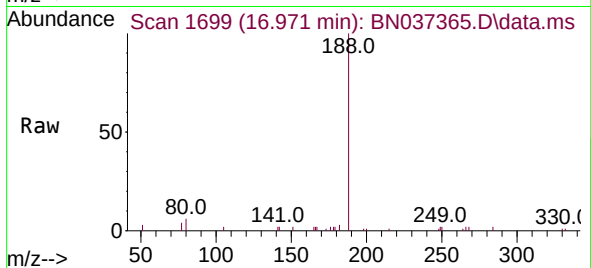
Tgt Ion:188 Resp: 5748

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 5.6 6.2 9.2#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.350 ng

RT: 15.379 min Scan# 1569

Delta R.T. 0.011 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

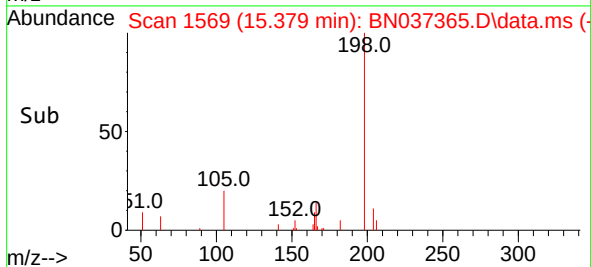
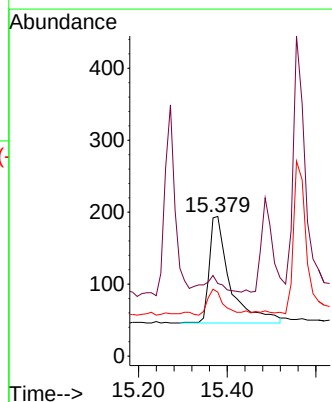
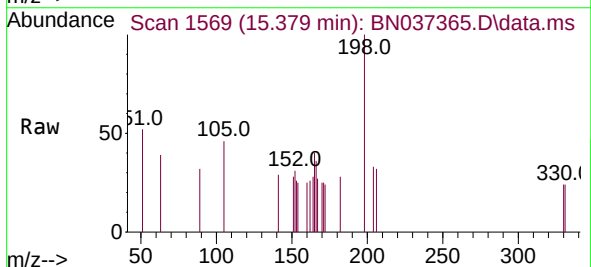
Tgt Ion:198 Resp: 483

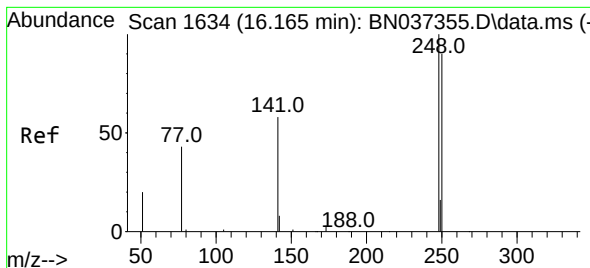
Ion Ratio Lower Upper

198 100

51 52.1 51.4 77.0

105 45.9 45.5 68.3

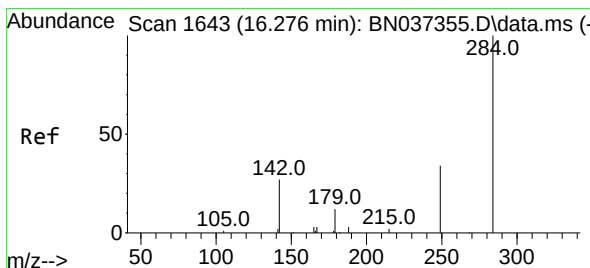
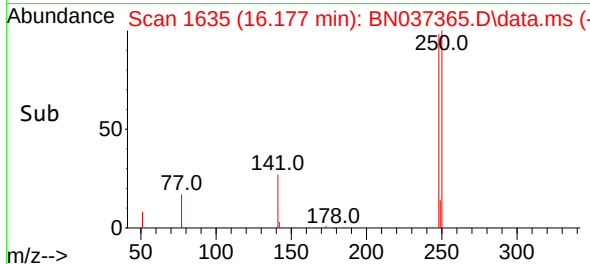
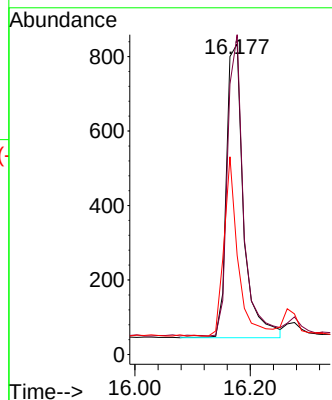
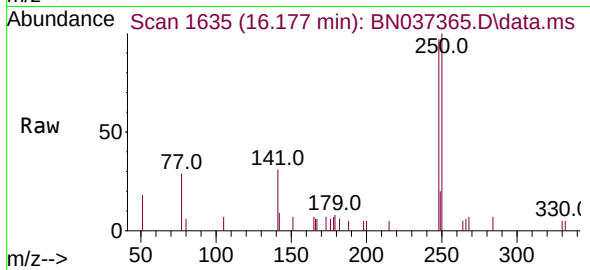




#21
4-Bromophenyl-phenylether
Concen: 0.396 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.012 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

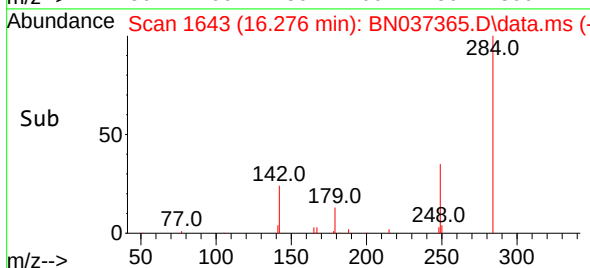
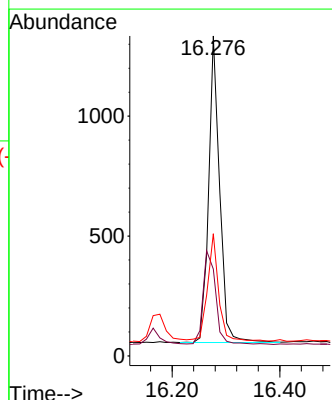
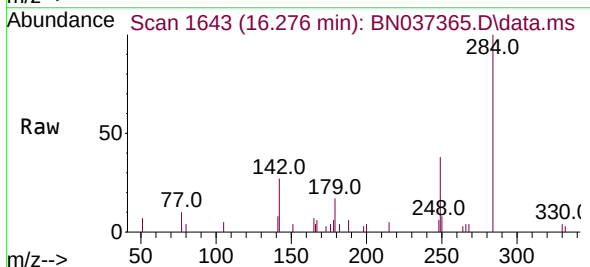
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

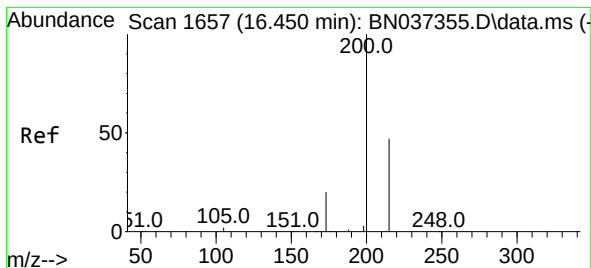
Tgt Ion: 248 Resp: 1621
Ion Ratio Lower Upper
248 100
250 103.0 80.4 120.6
141 31.9 33.3 49.9#



#22
Hexachlorobenzene
Concen: 0.408 ng
RT: 16.276 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion: 284 Resp: 1819
Ion Ratio Lower Upper
284 100
142 34.9 27.0 40.6
249 35.5 28.8 43.2





#23

Atrazine

Concen: 0.364 ng

RT: 16.450 min Scan# 1657

Delta R.T. 0.000 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

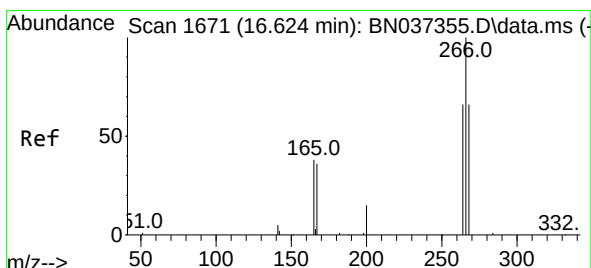
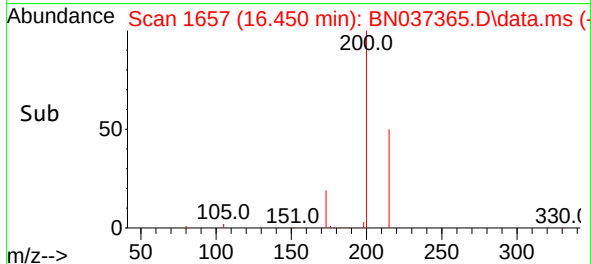
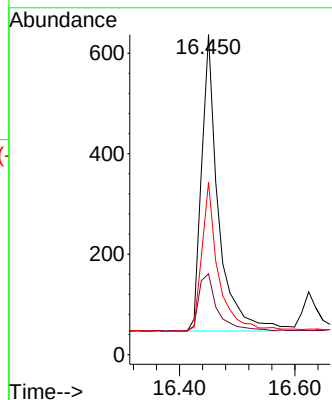
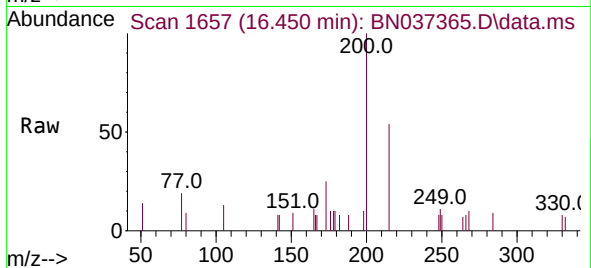
Tgt Ion:200 Resp: 1187

Ion Ratio Lower Upper

200 100

173 25.3 29.2 43.8#

215 53.8 48.8 73.2



#24

Pentachlorophenol

Concen: 0.363 ng

RT: 16.624 min Scan# 1671

Delta R.T. 0.000 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

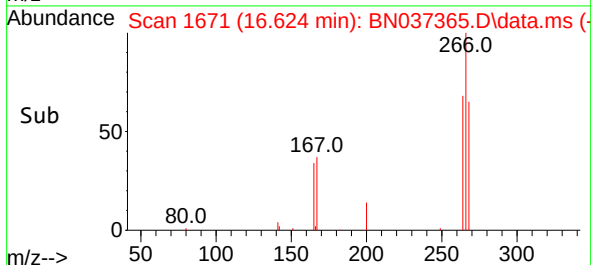
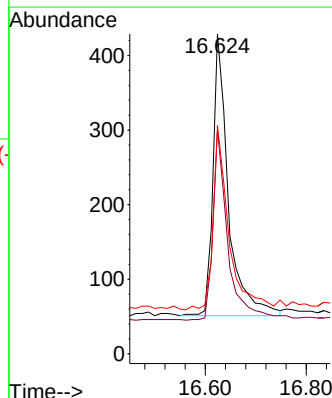
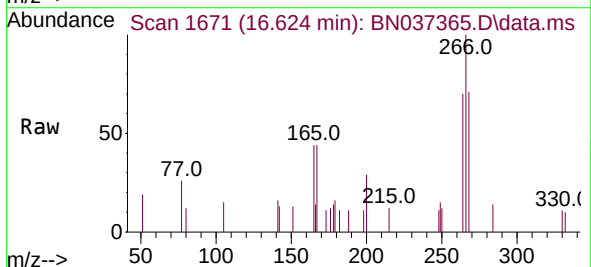
Tgt Ion:266 Resp: 805

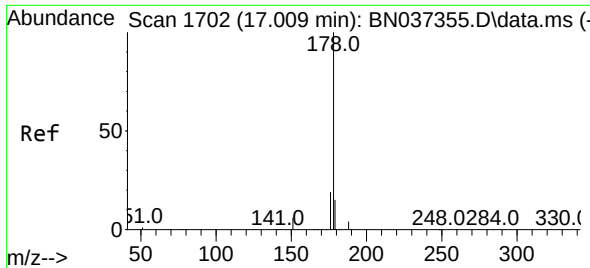
Ion Ratio Lower Upper

266 100

264 65.6 50.3 75.5

268 66.2 55.3 82.9

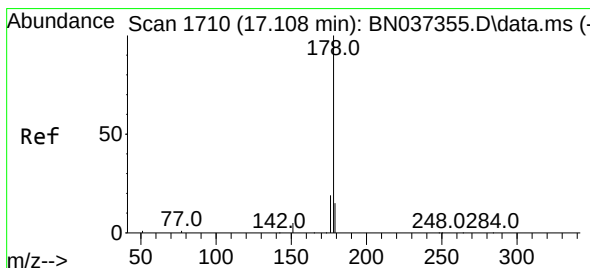
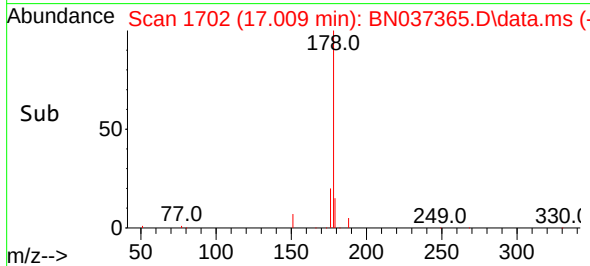
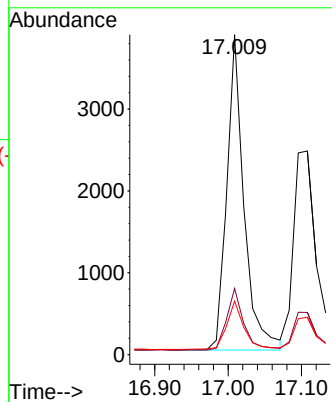
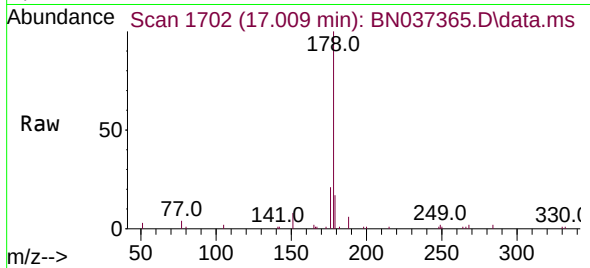




#25
Phenanthrene
Concen: 0.377 ng
RT: 17.009 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

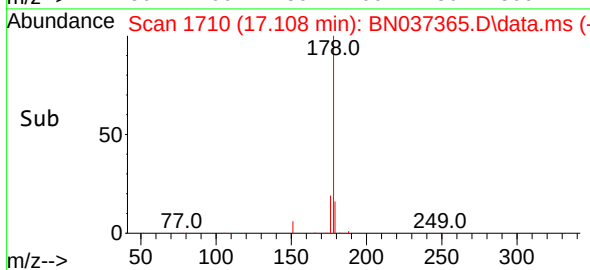
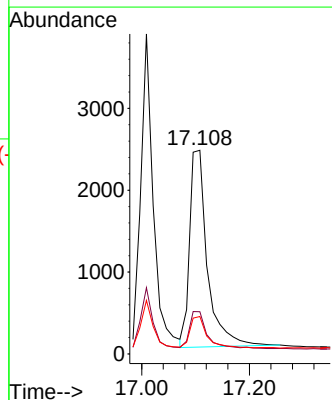
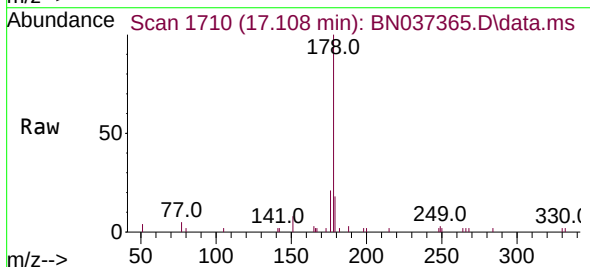
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

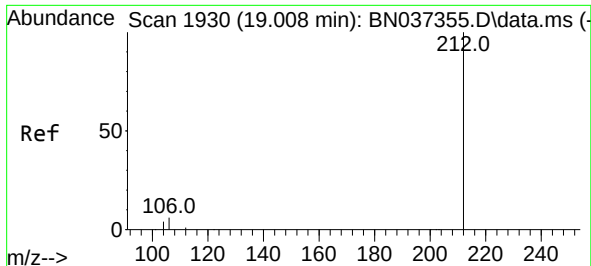
Tgt Ion:178 Resp: 6282
Ion Ratio Lower Upper
178 100
176 19.5 15.2 22.8
179 15.5 12.9 19.3



#26
Anthracene
Concen: 0.360 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:178 Resp: 5522
Ion Ratio Lower Upper
178 100
176 19.0 14.7 22.1
179 16.2 13.0 19.6

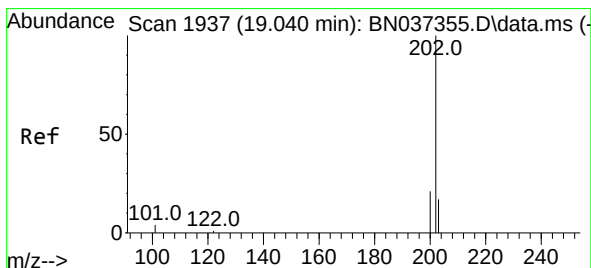
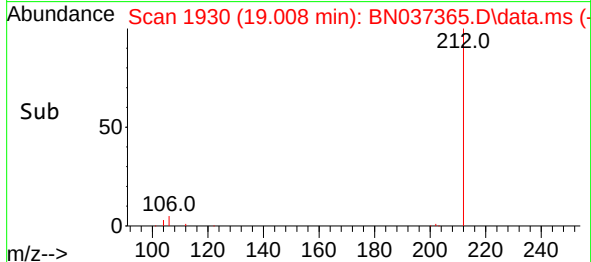
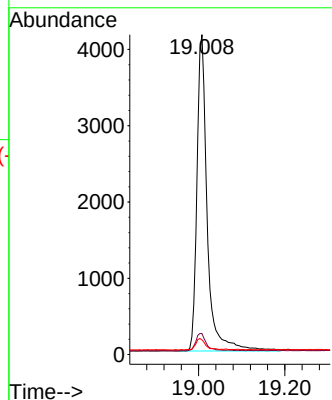
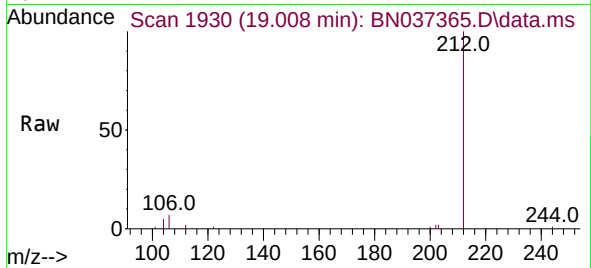




#27
Fluoranthene-d10
Concen: 0.414 ng
RT: 19.008 min Scan# 1930
Delta R.T. 0.000 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

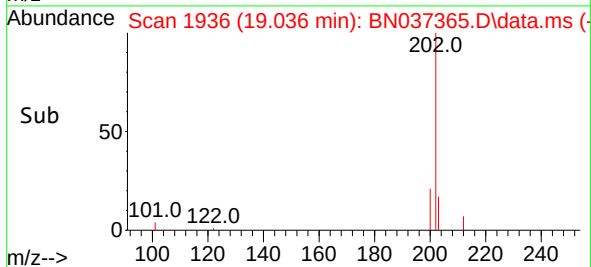
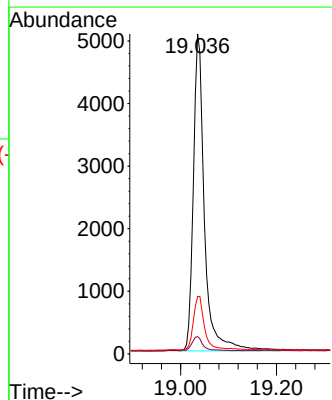
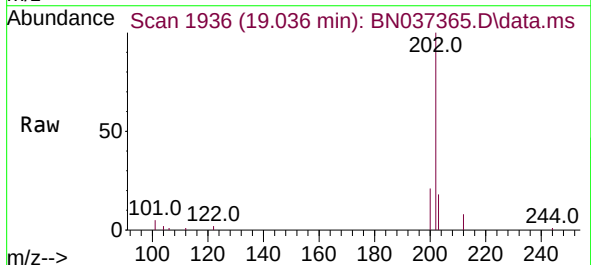
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

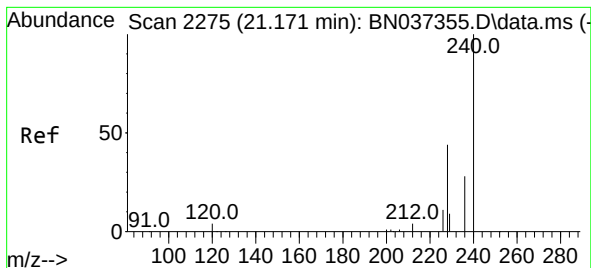
Tgt Ion:212 Resp: 6836
Ion Ratio Lower Upper
212 100
106 5.5 3.0 4.4#
104 3.4 2.0 3.0#



#28
Fluoranthene
Concen: 0.385 ng
RT: 19.036 min Scan# 1936
Delta R.T. -0.005 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:202 Resp: 8102
Ion Ratio Lower Upper
202 100
101 4.5 3.0 4.6
203 16.4 13.7 20.5





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.162 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

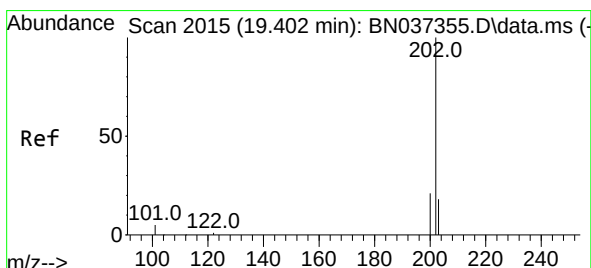
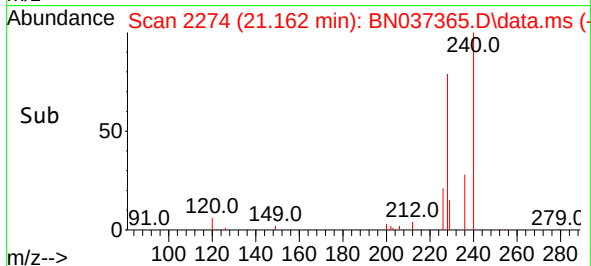
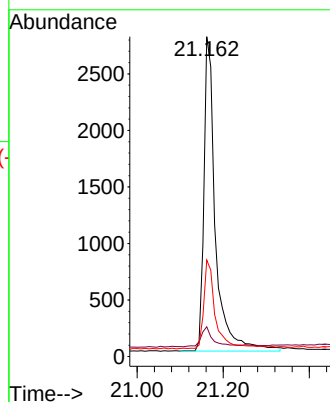
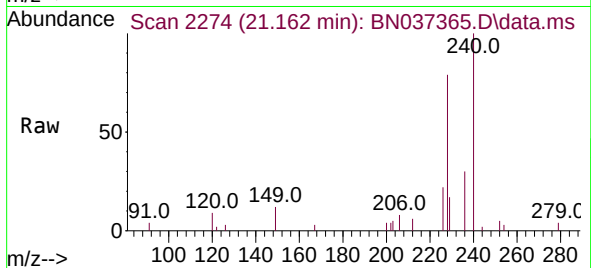
Tgt Ion:240 Resp: 5140

Ion Ratio Lower Upper

240 100

120 9.3 7.5 11.3

236 30.2 24.9 37.3



#30

Pyrene

Concen: 0.388 ng

RT: 19.403 min Scan# 2015

Delta R.T. 0.000 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

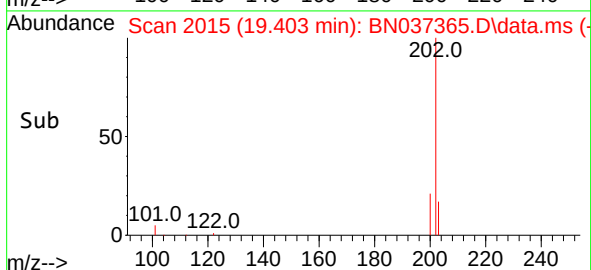
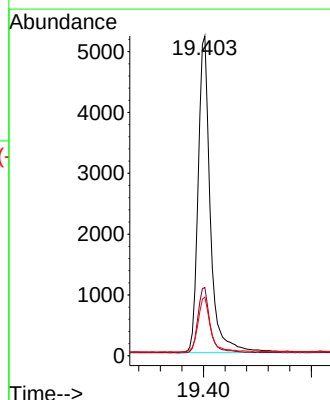
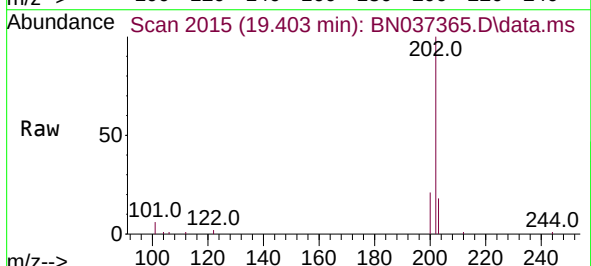
Tgt Ion:202 Resp: 8105

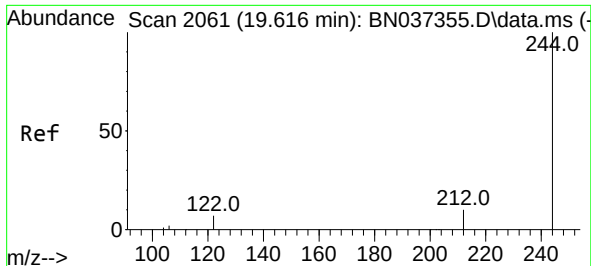
Ion Ratio Lower Upper

202 100

200 21.0 16.8 25.2

203 17.7 14.5 21.7

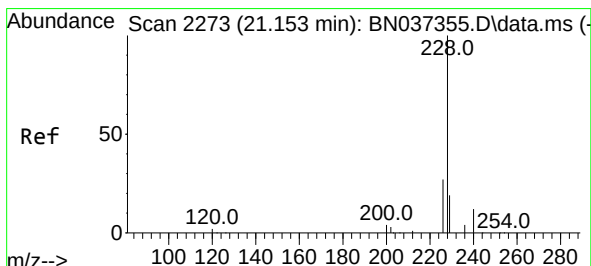
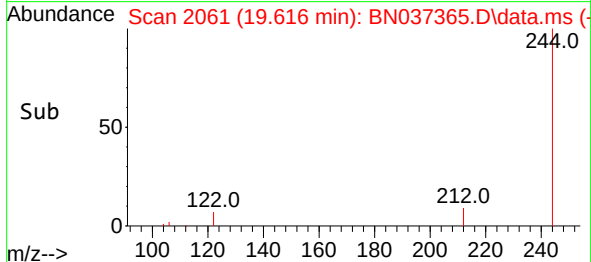
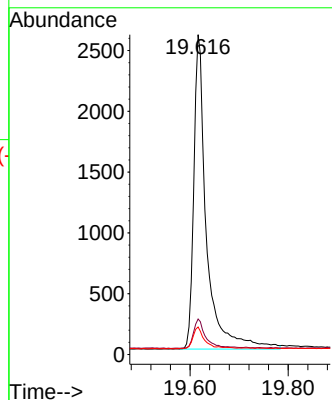
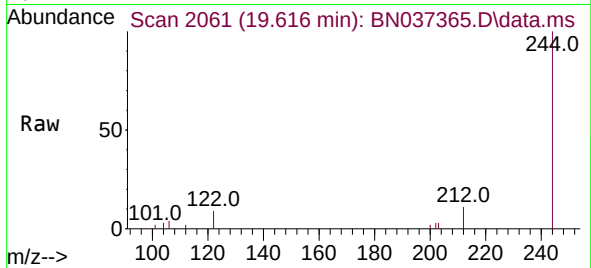




#31
 Terphenyl-d14
 Concen: 0.396 ng
 RT: 19.616 min Scan# 2061
 Delta R.T. 0.000 min
 Lab File: BN037365.D
 Acq: 21 Jun 2025 01:17

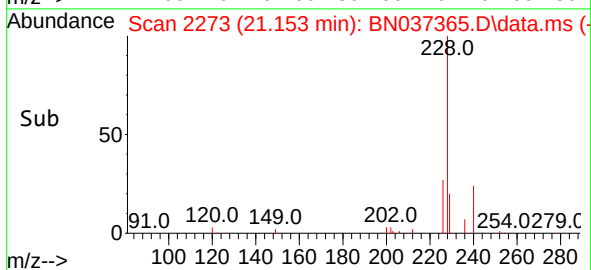
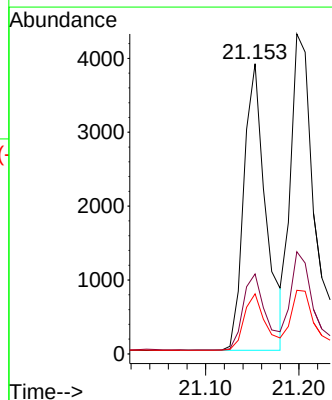
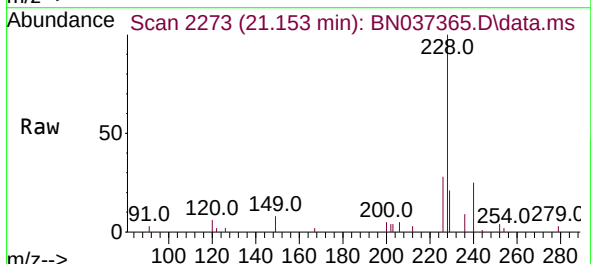
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

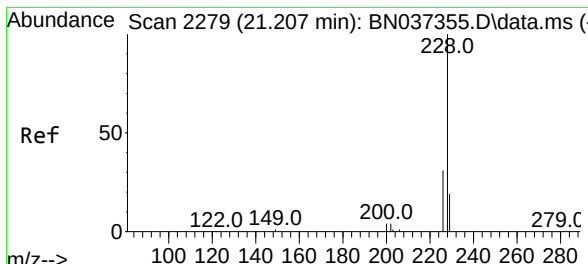
Tgt Ion:244	Resp:	4639
Ion Ratio	Lower	Upper
244	100	
212	11.1	11.1 16.7
122	8.6	7.2 10.8



#32
 Benzo(a)anthracene
 Concen: 0.376 ng
 RT: 21.153 min Scan# 2273
 Delta R.T. 0.000 min
 Lab File: BN037365.D
 Acq: 21 Jun 2025 01:17

Tgt Ion:228	Resp:	6359
Ion Ratio	Lower	Upper
228	100	
226	27.5	23.0 34.4
229	20.7	17.4 26.0

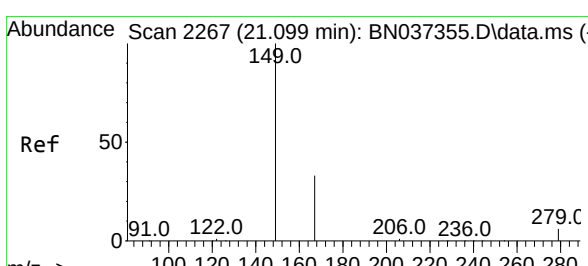
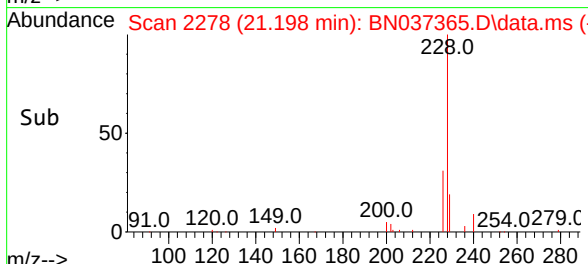
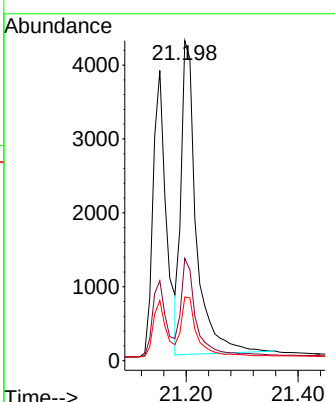
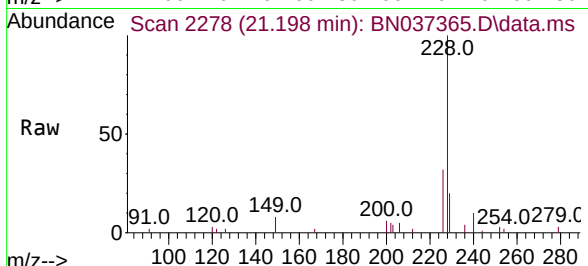




#33
 Chrysene
 Concen: 0.391 ng
 RT: 21.198 min Scan# 21
 Delta R.T. -0.009 min
 Lab File: BN037365.D
 Acq: 21 Jun 2025 01:17

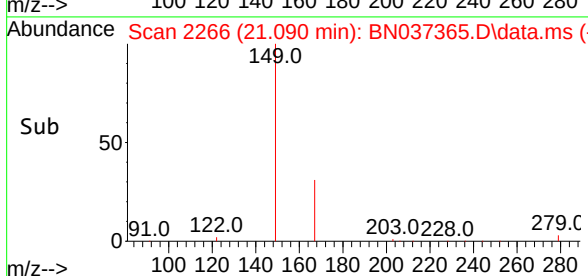
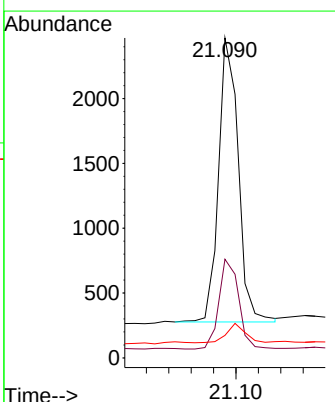
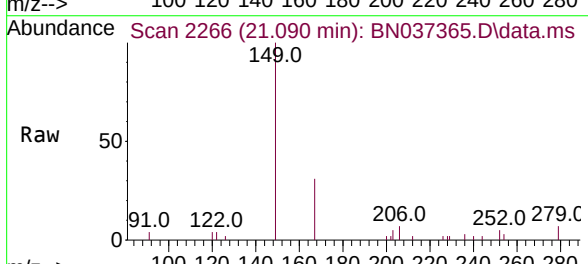
Instrument :
 BNA_N
 ClientSampleId :
 SSTDCCC0.4EC

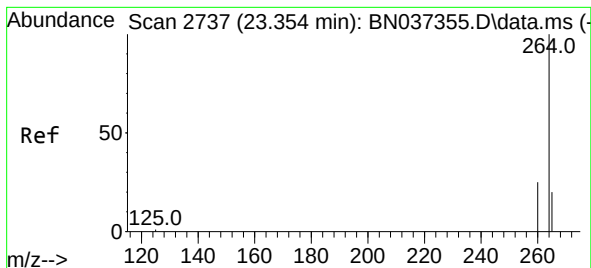
Tgt Ion:	228	Resp:	8015
Ion Ratio	Lower	Upper	
228	100		
226	31.9	25.4	38.2
229	19.9	17.3	25.9



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.385 ng
 RT: 21.090 min Scan# 2266
 Delta R.T. -0.009 min
 Lab File: BN037365.D
 Acq: 21 Jun 2025 01:17

Tgt Ion:	149	Resp:	2672
Ion Ratio	Lower	Upper	
149	100		
167	31.7	24.6	37.0
279	6.5	6.5	9.7#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.351 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC

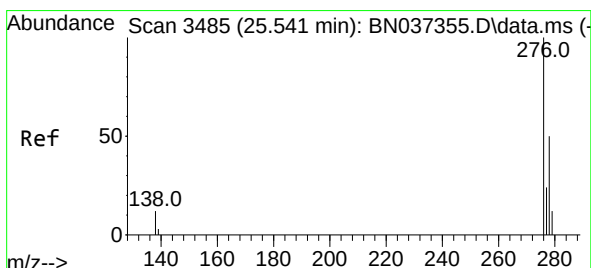
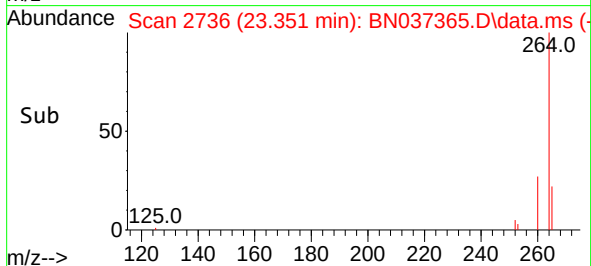
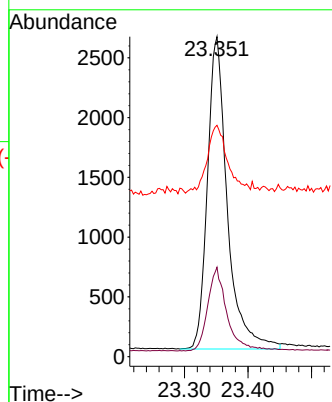
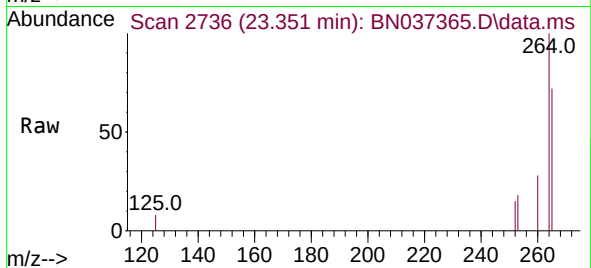
Tgt Ion:264 Resp: 5682

Ion Ratio Lower Upper

264 100

260 27.9 21.4 32.2

265 72.3 71.4 107.0



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.382 ng

RT: 25.535 min Scan# 3483

Delta R.T. -0.006 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

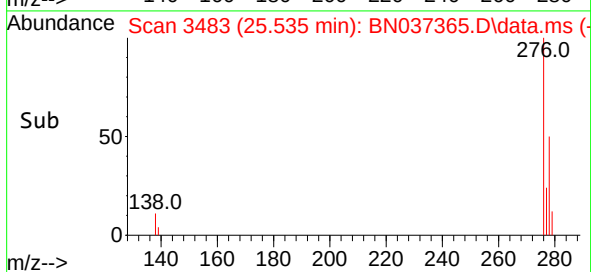
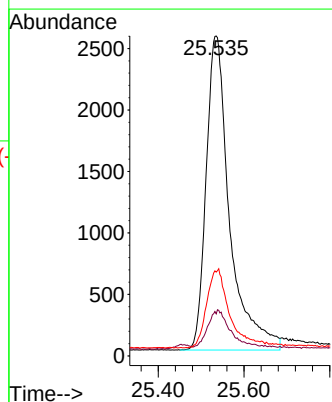
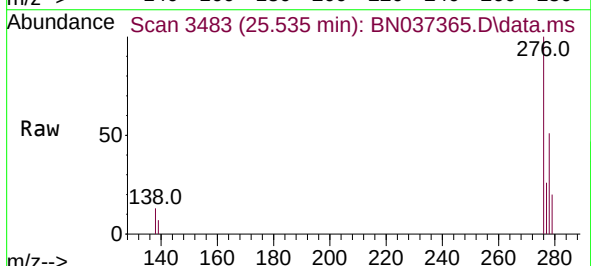
Tgt Ion:276 Resp: 9725

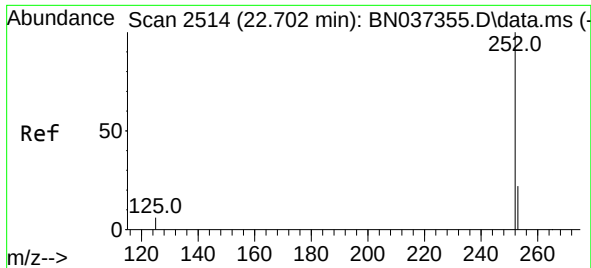
Ion Ratio Lower Upper

276 100

138 11.2 2.2 3.2#

277 24.1 17.1 25.7

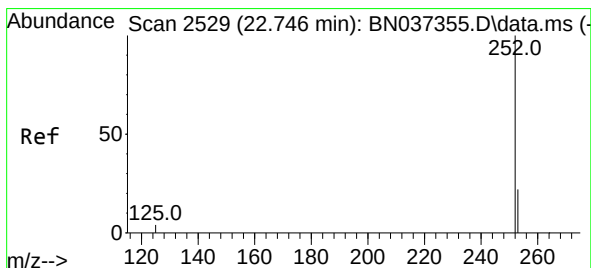
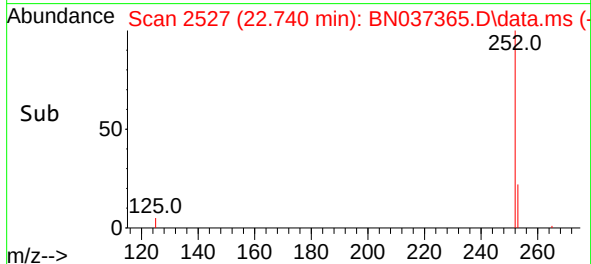
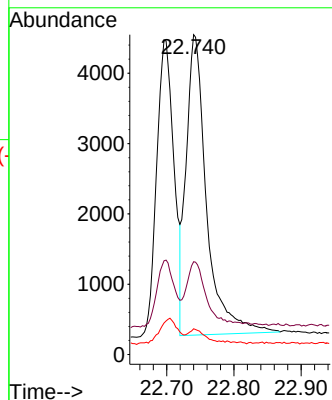
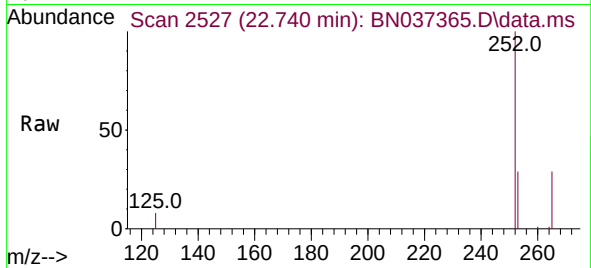




#37
Benzo(b)fluoranthene
Concen: 0.431 ng
RT: 22.740 min Scan# 2514
Delta R.T. 0.038 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

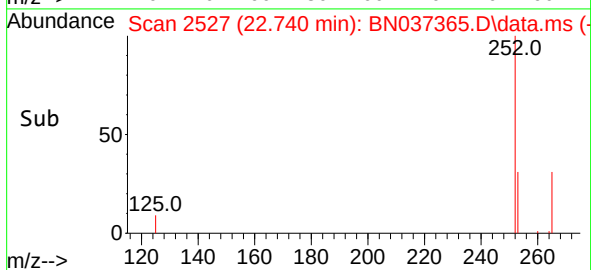
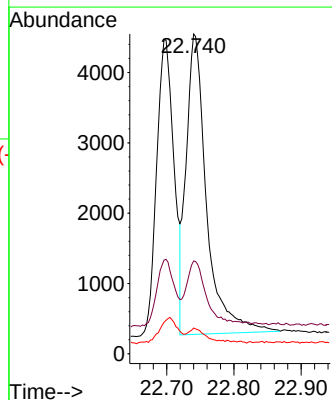
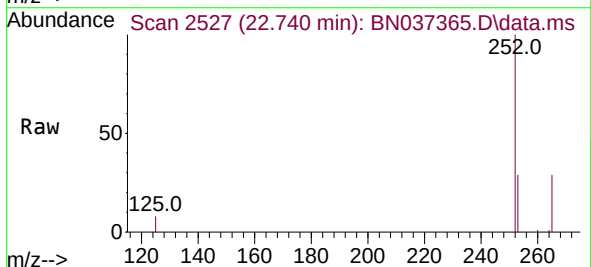
Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4EC

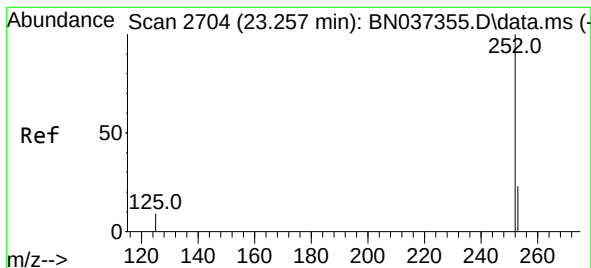
Tgt Ion:252 Resp: 9018
Ion Ratio Lower Upper
252 100
253 29.0 26.6 40.0
125 8.1 6.1 9.1



#38
Benzo(k)fluoranthene
Concen: 0.398 ng
RT: 22.740 min Scan# 2527
Delta R.T. -0.006 min
Lab File: BN037365.D
Acq: 21 Jun 2025 01:17

Tgt Ion:252 Resp: 9018
Ion Ratio Lower Upper
252 100
253 29.0 26.7 40.1
125 8.1 6.5 9.7





#39

Benzo(a)pyrene

Concen: 0.380 ng

RT: 23.255 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037365.D

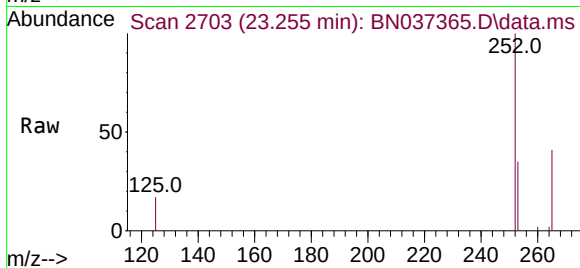
Acq: 21 Jun 2025 01:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



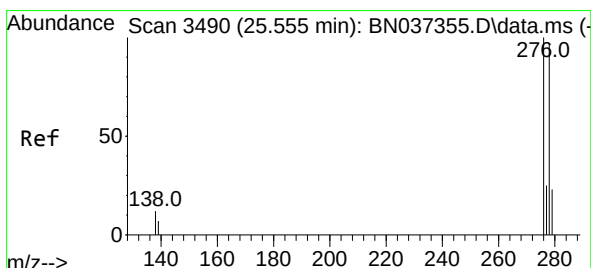
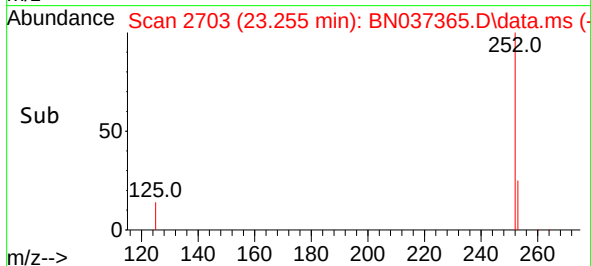
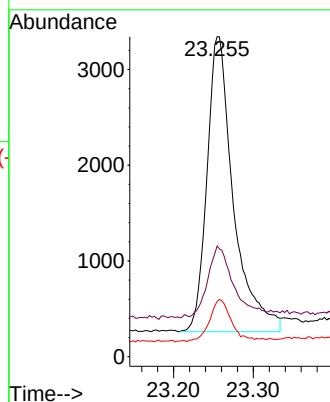
Tgt Ion:252 Resp: 7122

Ion Ratio Lower Upper

252 100

253 34.6 31.6 47.4

125 17.3 8.4 12.6#



#40

Dibenzo(a,h)anthracene

Concen: 0.388 ng

RT: 25.553 min Scan# 3489

Delta R.T. -0.003 min

Lab File: BN037365.D

Acq: 21 Jun 2025 01:17

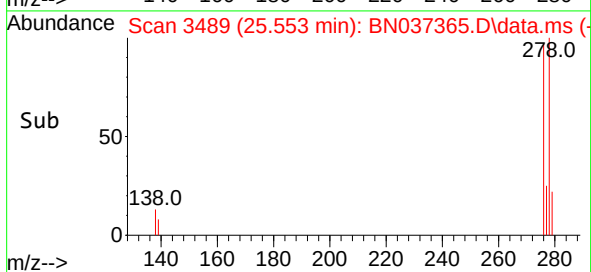
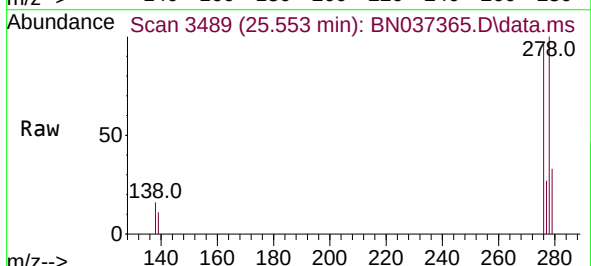
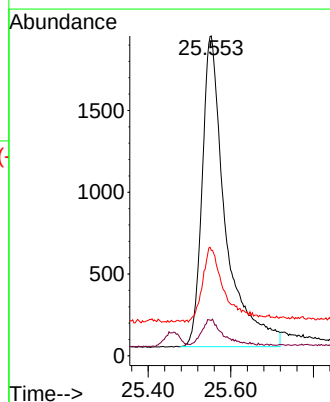
Tgt Ion:278 Resp: 7424

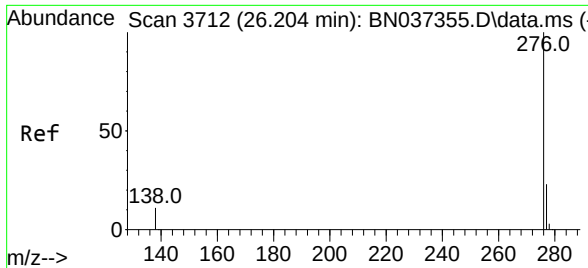
Ion Ratio Lower Upper

278 100

139 11.0 10.2 15.4

279 33.0 35.6 53.4#





#41

Benzo(g,h,i)perylene

Concen: 0.389 ng

RT: 26.199 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037365.D

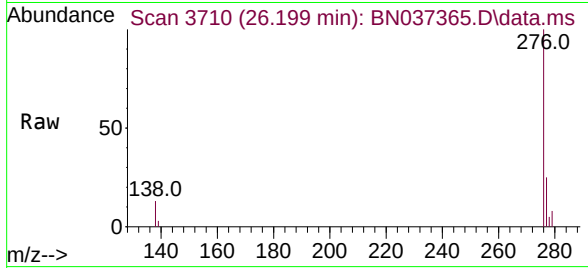
Acq: 21 Jun 2025 01:17

Instrument :

BNA_N

ClientSampleId :

SSTDCCC0.4EC



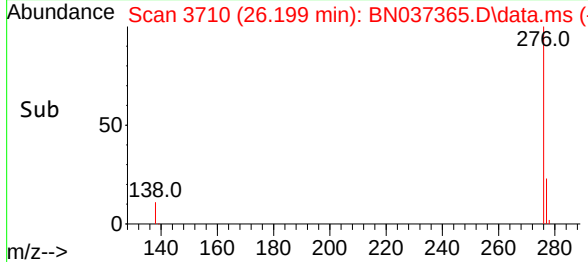
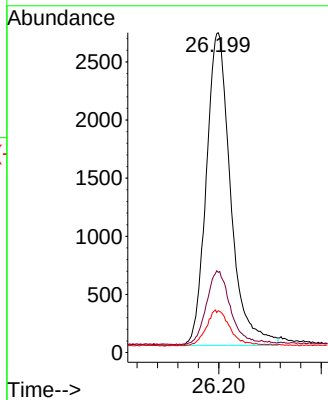
Tgt Ion:276 Resp: 8859

Ion Ratio Lower Upper

276 100

277 25.1 22.7 34.1

138 13.1 9.4 14.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
 Data File : BN037386.D
 Acq On : 26 Jun 2025 10:41
 Operator : RC/JU
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

Quant Time: Jun 26 16:03:56 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 16:02:41 2025
 Response via : Initial Calibration

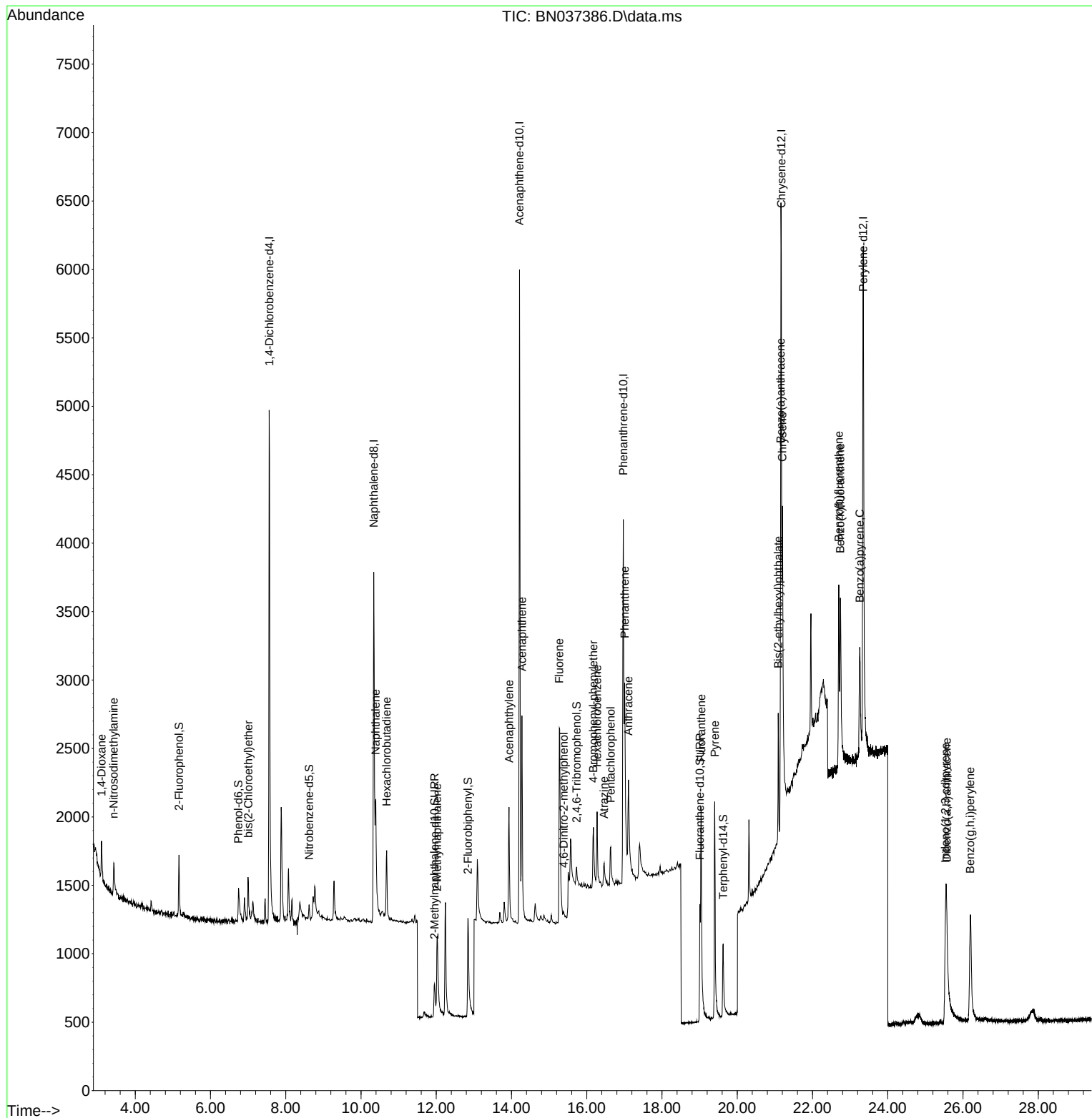
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.560	152	2183	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	4628	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	2945	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5811	0.400	ng	0.01
29) Chrysene-d12	21.171	240	5498	0.400	ng	0.00
35) Perylene-d12	23.348	264	5798	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.163	112	421	0.100	ng	0.00
5) Phenol-d6	6.744	99	362	0.083	ng	0.00
8) Nitrobenzene-d5	8.621	82	95	0.026	ng	-0.10
11) 2-Methylnaphthalene-d10	11.955	152	615	0.086	ng	0.02
14) 2,4,6-Tribromophenol	15.730	330	143	0.083	ng	0.01
15) 2-Fluorobiphenyl	12.843	172	1140	0.090	ng	0.01
27) Fluoranthene-d10	19.008	212	1559	0.094	ng	0.00
31) Terphenyl-d14	19.625	244	1099	0.094	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	299	0.144	ng	# 85
3) n-Nitrosodimethylamine	3.429	42	207	0.101	ng	# 88
6) bis(2-Chloroethyl)ether	7.004	93	313	0.081	ng	# 85
9) Naphthalene	10.394	128	1206	0.101	ng	# 86
10) Hexachlorobutadiene	10.682	225	471	0.100	ng	# 98
12) 2-Methylnaphthalene	12.026	142	735	0.090	ng	96
16) Acenaphthylene	13.935	152	1167	0.096	ng	97
17) Acenaphthene	14.277	154	758	0.095	ng	98
18) Fluorene	15.272	166	1063	0.094	ng	100
20) 4,6-Dinitro-2-methylph...	15.389	198	81	0.054	ng	# 1
21) 4-Bromophenyl-phenylether	16.177	248	383	0.093	ng	# 93
22) Hexachlorobenzene	16.276	284	450	0.102	ng	98
23) Atrazine	16.462	200	291	0.090	ng	# 73
24) Pentachlorophenol	16.636	266	262	0.110	ng	95
25) Phenanthrene	17.009	178	1534	0.094	ng	97
26) Anthracene	17.108	178	1358	0.090	ng	100
28) Fluoranthene	19.040	202	2001	0.096	ng	99
30) Pyrene	19.402	202	2006	0.096	ng	99
32) Benzo(a)anthracene	21.153	228	1579	0.091	ng	92
33) Chrysene	21.198	228	2241	0.105	ng	94
34) Bis(2-ethylhexyl)phtha...	21.090	149	839	0.123	ng	# 98
36) Indeno(1,2,3-cd)pyrene	25.535	276	2156	0.088	ng	# 90
37) Benzo(b)fluoranthene	22.699	252	1927	0.094	ng	# 66
38) Benzo(k)fluoranthene	22.740	252	2041	0.093	ng	# 61
39) Benzo(a)pyrene	23.254	252	1755	0.097	ng	# 52
40) Dibenzo(a,h)anthracene	25.567	278	1522	0.081	ng	# 41
41) Benzo(g,h,i)perylene	26.193	276	2066	0.092	ng	# 87

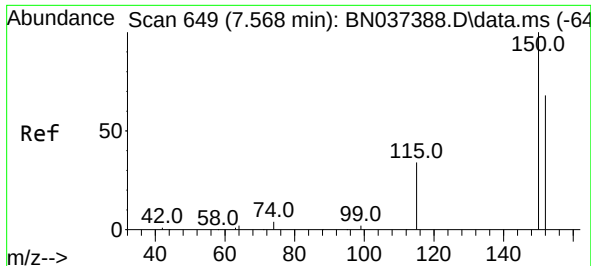
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037386.D
Acq On : 26 Jun 2025 10:41
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

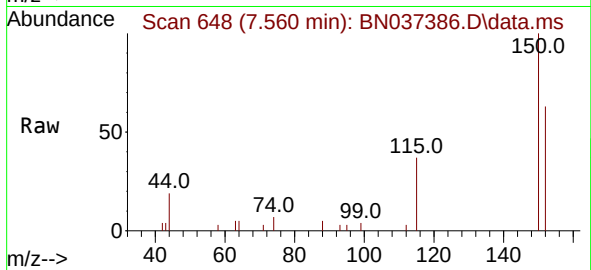
Quant Time: Jun 26 16:03:56 2025
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:02:41 2025
Response via : Initial Calibration



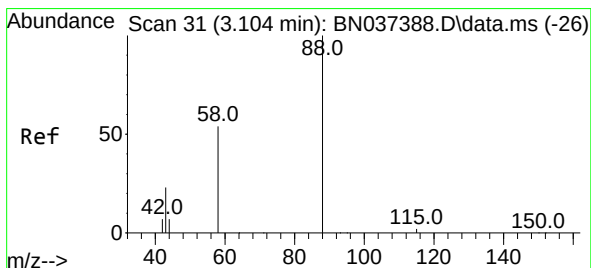
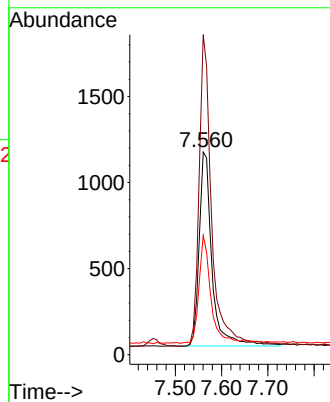
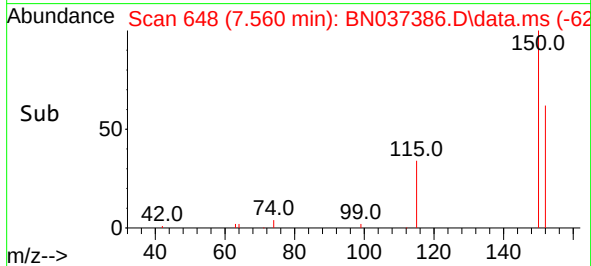


#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.560 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

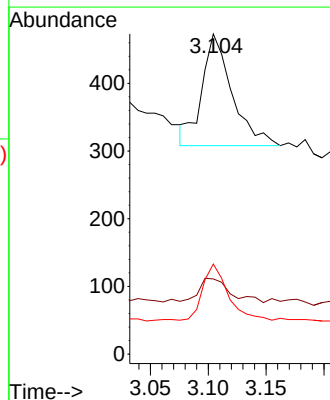
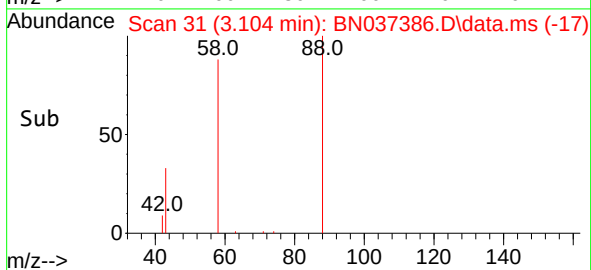
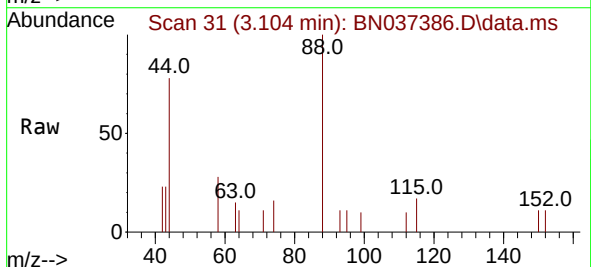


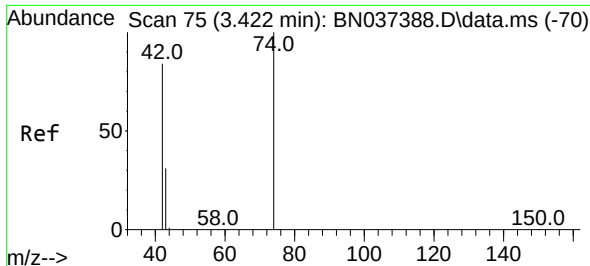
Tgt Ion:152 Resp: 2183
Ion Ratio Lower Upper
152 100
150 157.8 116.2 174.2
115 58.7 42.9 64.3



#2
1,4-Dioxane
Concen: 0.144 ng
RT: 3.104 min Scan# 31
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion: 88 Resp: 299
Ion Ratio Lower Upper
88 100
43 23.1 21.6 32.4
58 44.1 45.9 68.9#

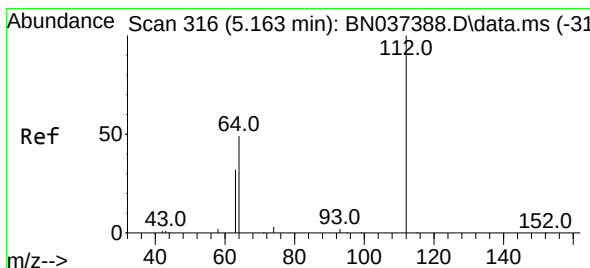
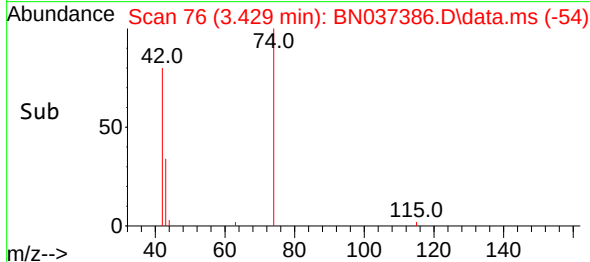
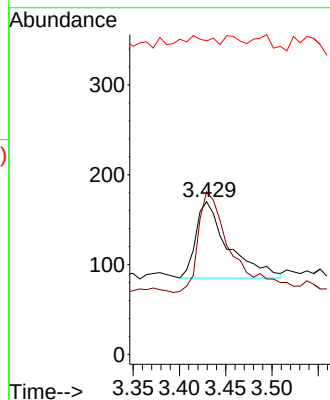
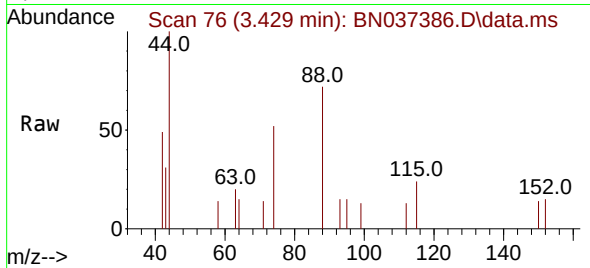




#3
n-Nitrosodimethylamine
Concen: 0.101 ng
RT: 3.429 min Scan# 75
Delta R.T. 0.007 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

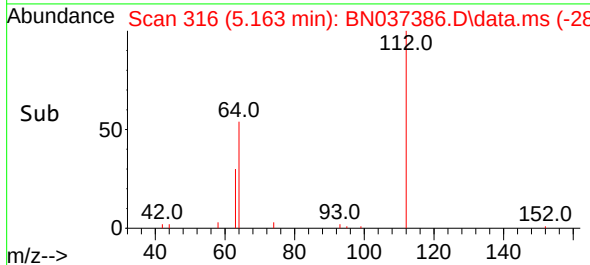
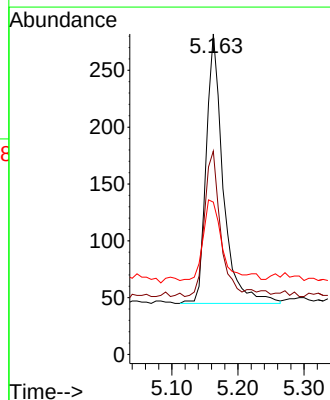
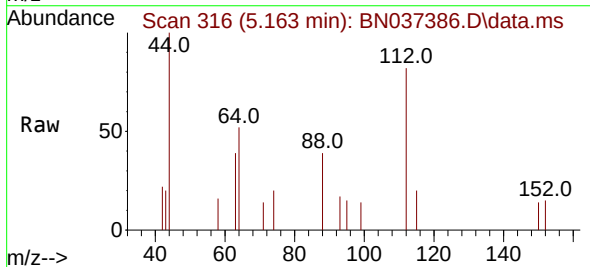
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

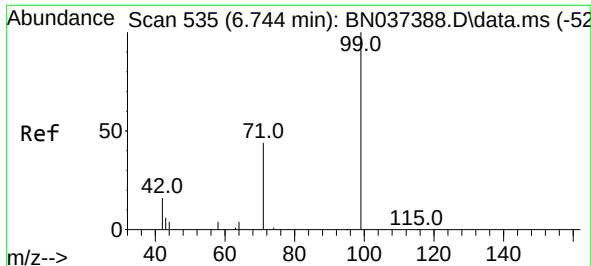
Tgt Ion: 42 Resp: 207
Ion Ratio Lower Upper
42 100
74 136.2 97.8 146.8
44 11.6 8.7 13.1



#4
2-Fluorophenol
Concen: 0.100 ng
RT: 5.163 min Scan# 316
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion: 112 Resp: 421
Ion Ratio Lower Upper
112 100
64 50.6 40.3 60.5
63 34.0 26.1 39.1

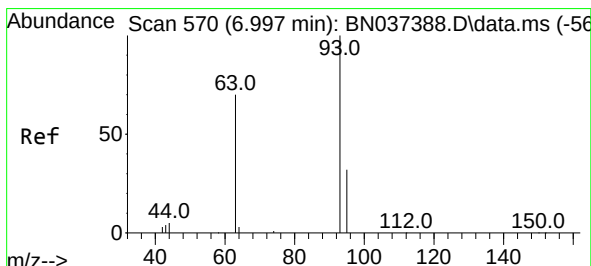
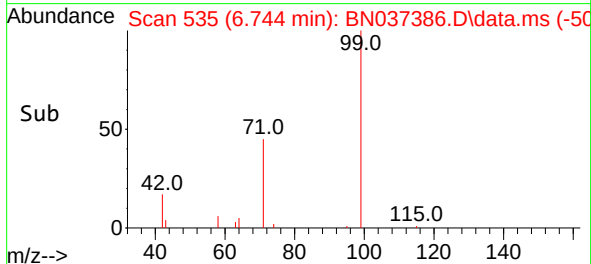
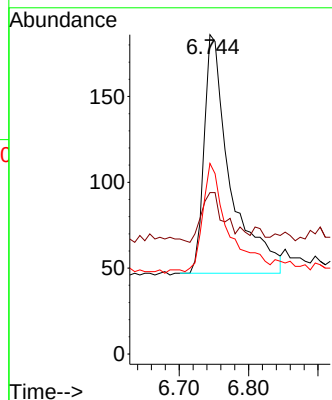
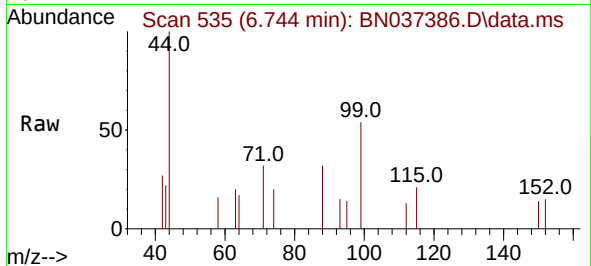




#5
Phenol-d6
Concen: 0.083 ng
RT: 6.744 min Scan# 511
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

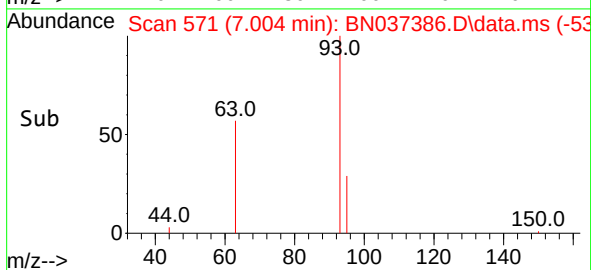
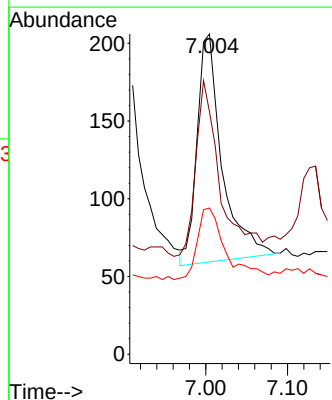
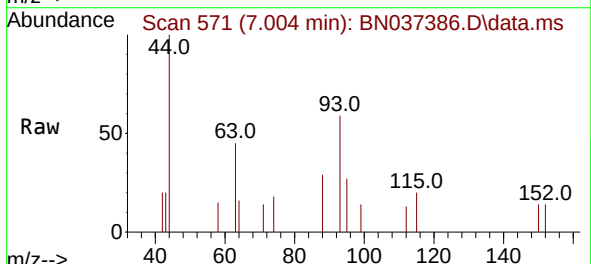
Instrument :
BNA_N
ClientSampleId :
SSTDIC0.1

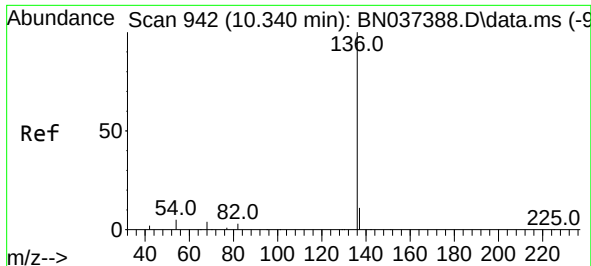
Tgt Ion:	99	Resp:	362
Ion	Ratio	Lower	Upper
99	100		
42	19.6	15.6	23.4
71	43.6	35.8	53.8



#6
bis(2-Chloroethyl)ether
Concen: 0.081 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.007 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:	93	Resp:	313
Ion	Ratio	Lower	Upper
93	100		
63	75.1	49.6	74.4#
95	35.5	23.9	35.9

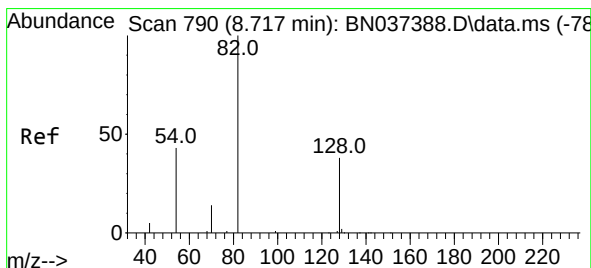
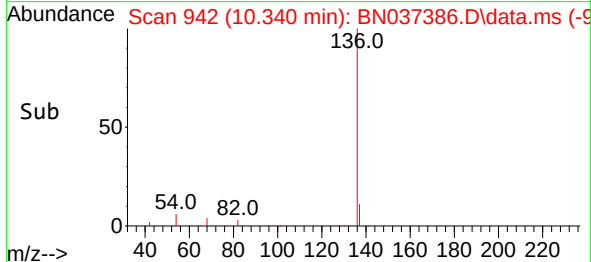
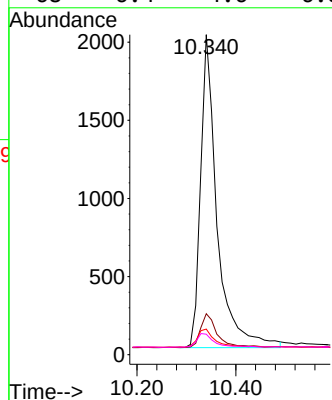
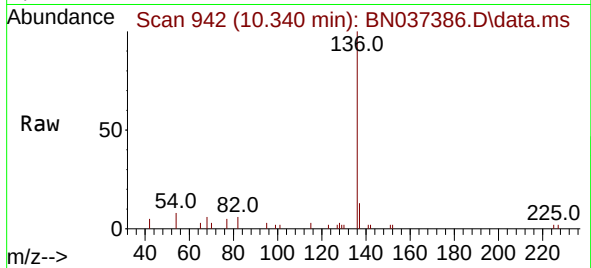




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

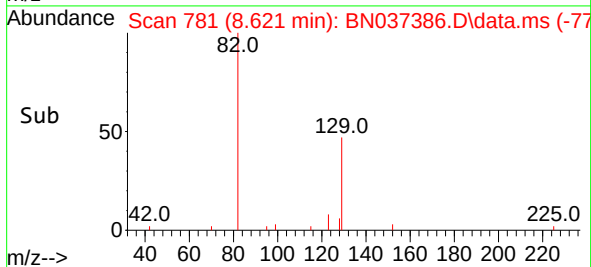
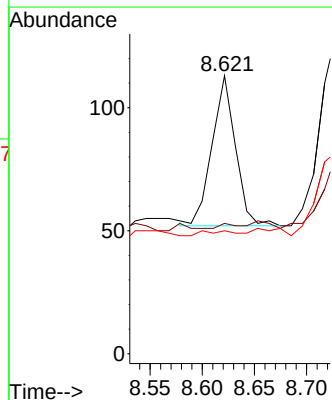
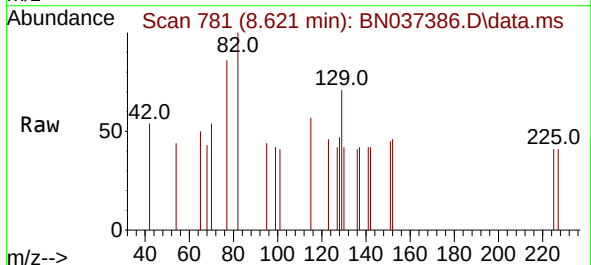
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

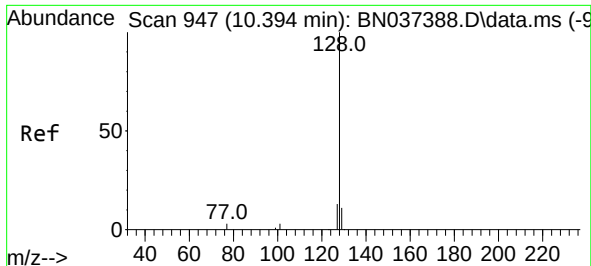
Tgt Ion:	136	Resp:	4628
Ion	Ratio	Lower	Upper
136	100		
137	12.8	10.4	15.6
54	8.0	5.6	8.4
68	6.4	4.6	6.8



#8
Nitrobenzene-d5
Concen: 0.026 ng
RT: 8.621 min Scan# 781
Delta R.T. -0.096 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:	82	Resp:	95
Ion	Ratio	Lower	Upper
82	100		
128	46.9	34.0	51.0
54	44.2	37.7	56.5

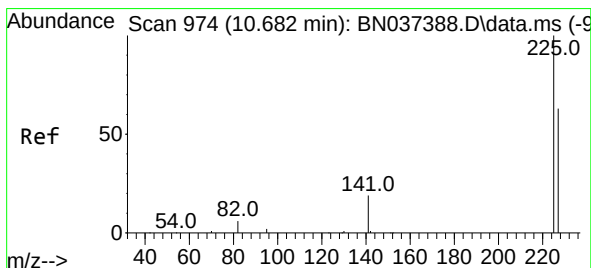
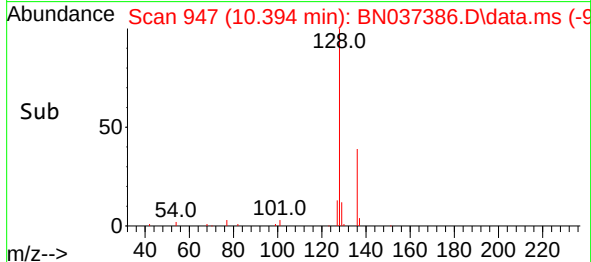
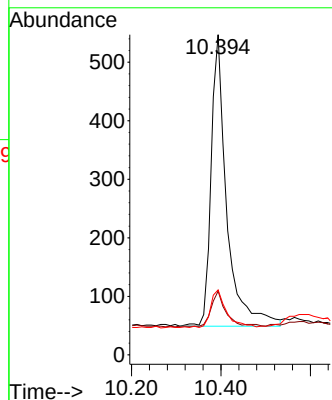
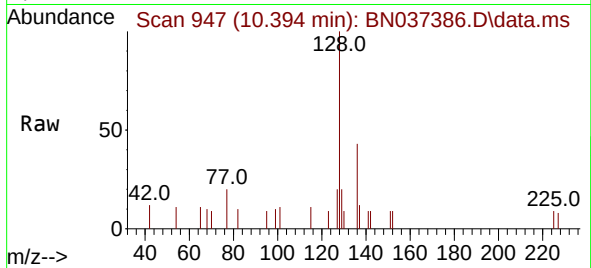




#9
Naphthalene
Concen: 0.101 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

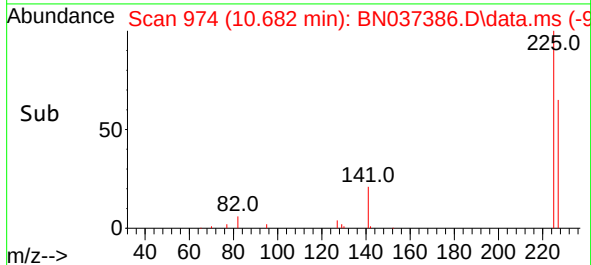
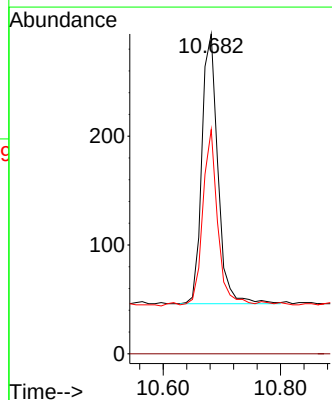
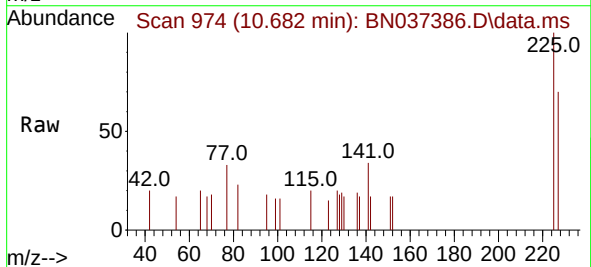
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

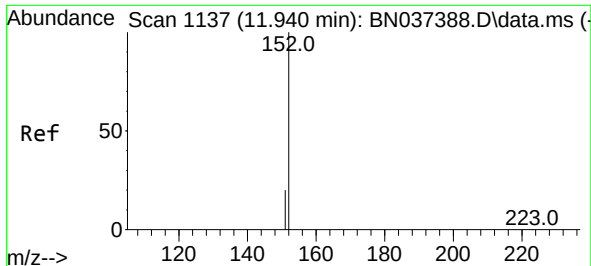
Tgt Ion:128 Resp: 1206
Ion Ratio Lower Upper
128 100
129 19.9 10.4 15.6#
127 20.3 12.2 18.4#



#10
Hexachlorobutadiene
Concen: 0.100 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:225 Resp: 471
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 60.7 49.9 74.9

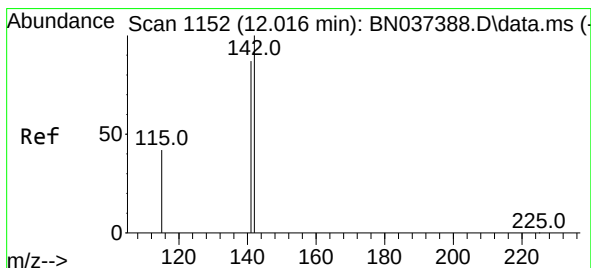
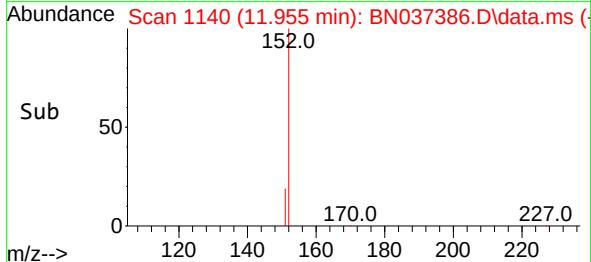
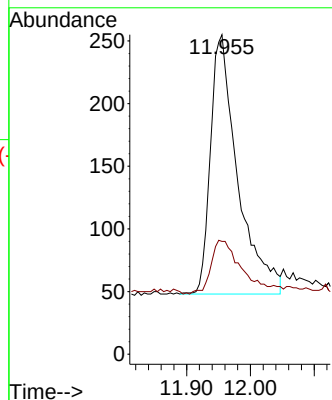
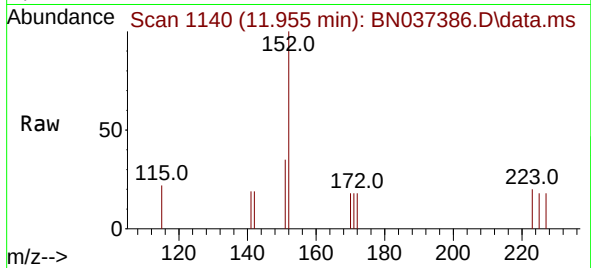




#11
2-Methylnaphthalene-d10
Concen: 0.086 ng
RT: 11.955 min Scan# 1137
Delta R.T. 0.015 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

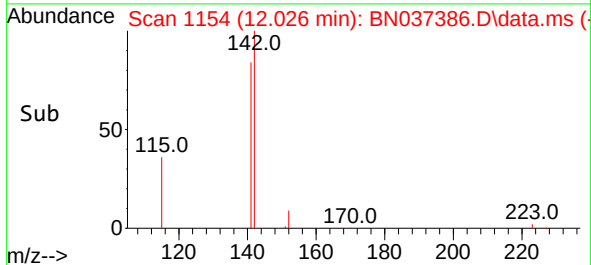
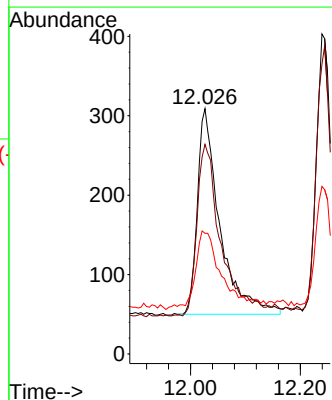
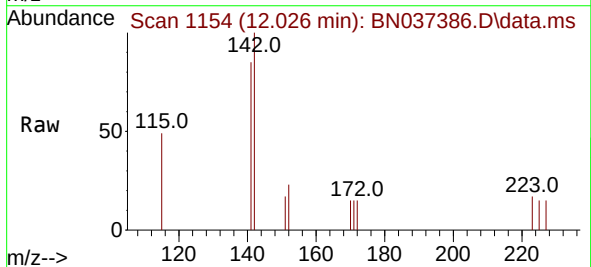
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

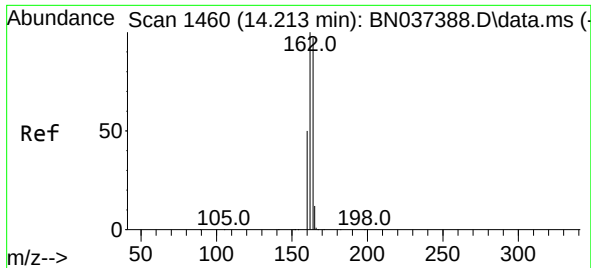
Tgt Ion:152 Resp: 615
Ion Ratio Lower Upper
152 100
151 22.9 18.4 27.6



#12
2-Methylnaphthalene
Concen: 0.090 ng
RT: 12.026 min Scan# 1154
Delta R.T. 0.010 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:142 Resp: 735
Ion Ratio Lower Upper
142 100
141 85.4 70.1 105.1
115 49.2 35.8 53.6

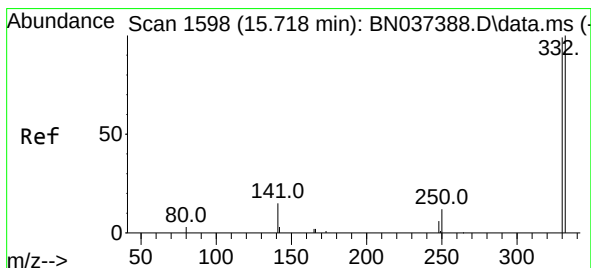
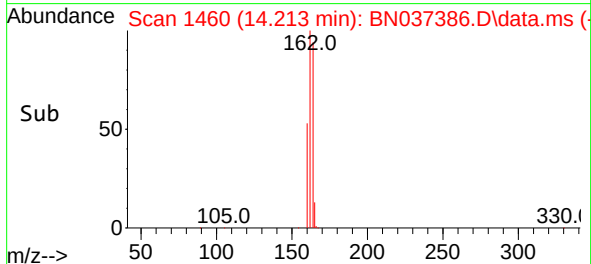
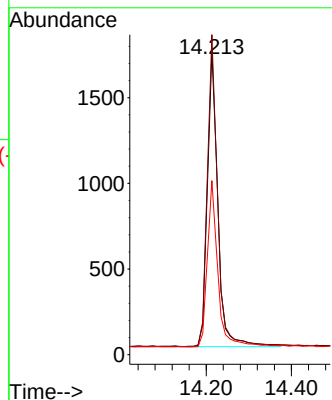
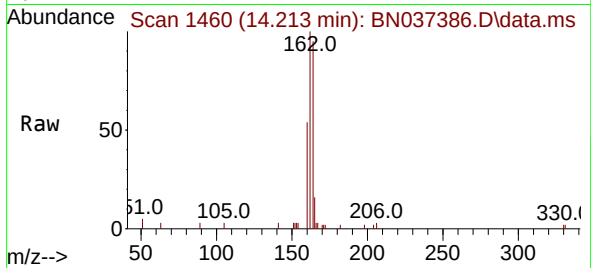




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

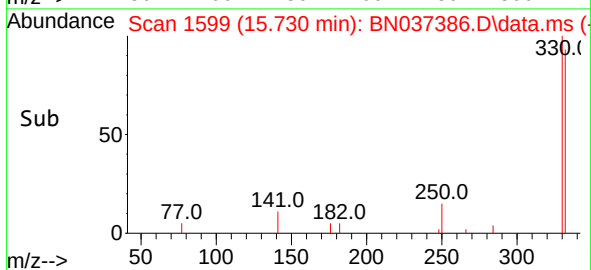
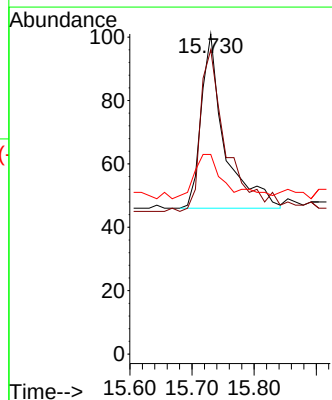
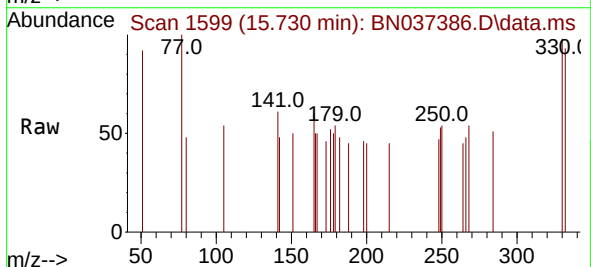
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

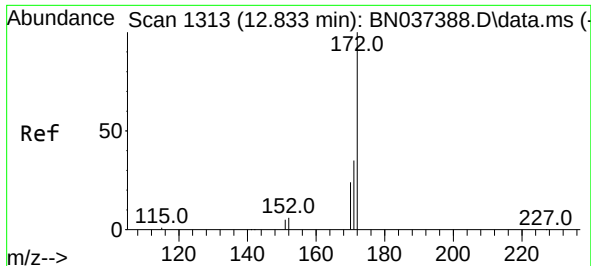
Tgt Ion:164 Resp: 2945
Ion Ratio Lower Upper
164 100
162 105.7 82.6 123.8
160 57.5 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.083 ng
RT: 15.730 min Scan# 1599
Delta R.T. 0.012 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:330 Resp: 143
Ion Ratio Lower Upper
330 100
332 107.7 77.8 116.8
141 33.6 24.0 36.0

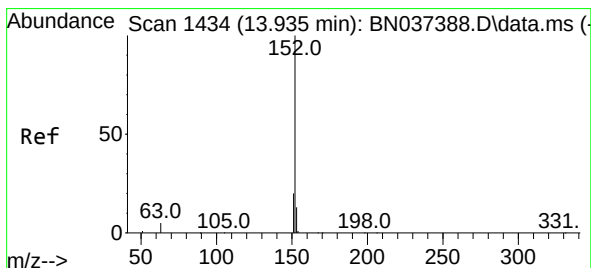
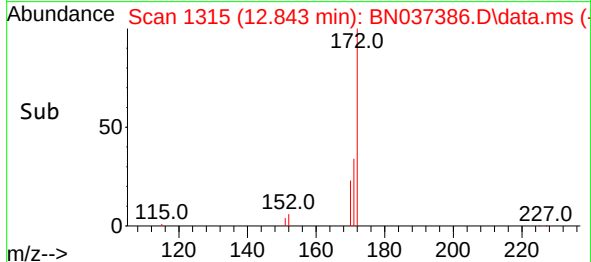
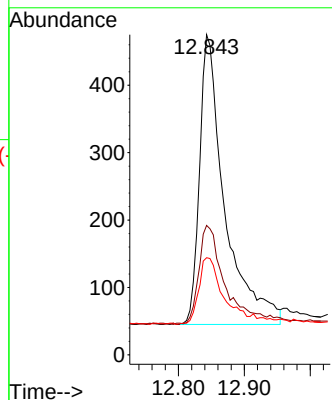
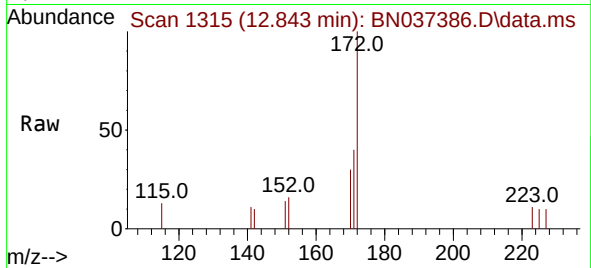




#15
2-Fluorobiphenyl
Concen: 0.090 ng
RT: 12.843 min Scan# 11
Delta R.T. 0.010 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

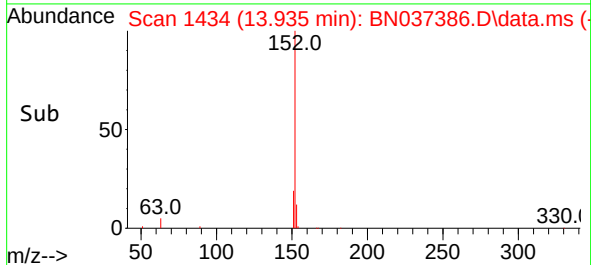
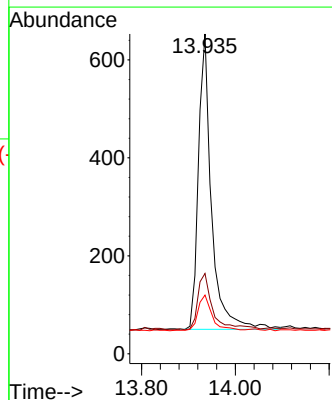
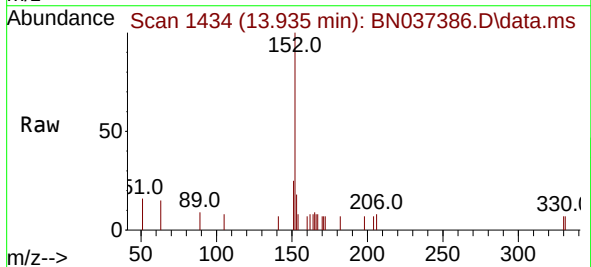
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

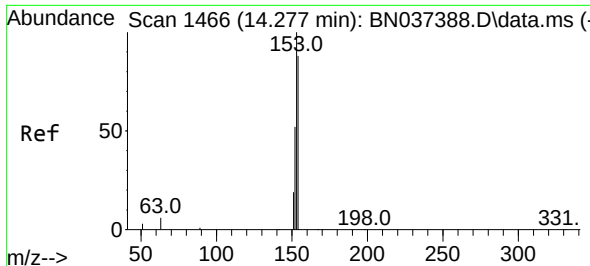
Tgt Ion:172 Resp: 1140
Ion Ratio Lower Upper
172 100
171 40.4 28.8 43.2
170 30.3 20.3 30.5



#16
Acenaphthylene
Concen: 0.096 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:152 Resp: 1167
Ion Ratio Lower Upper
152 100
151 21.9 15.8 23.6
153 13.1 10.3 15.5

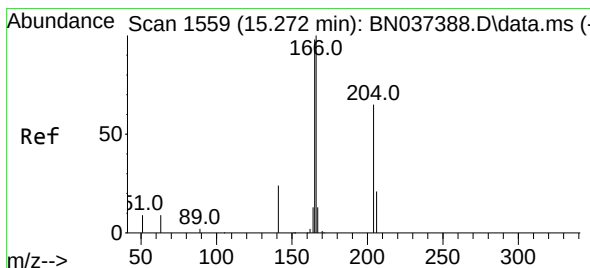
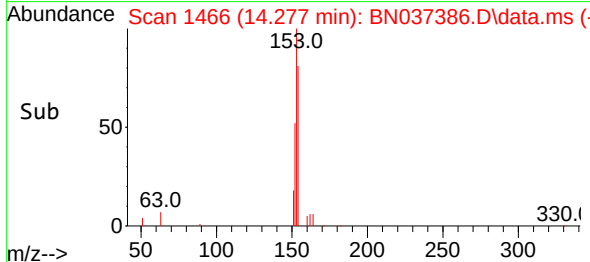
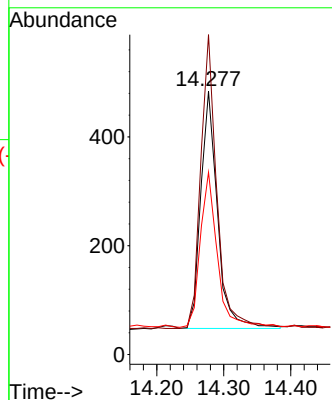
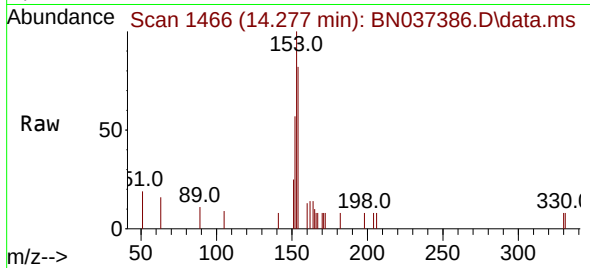




#17
Acenaphthene
Concen: 0.095 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

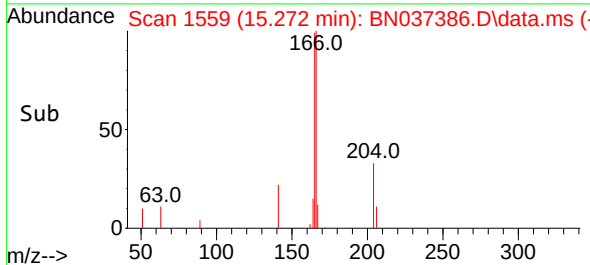
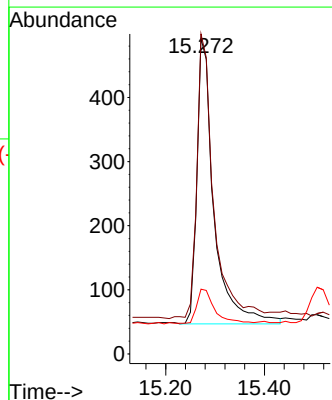
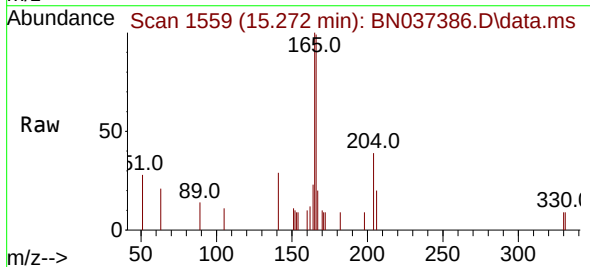
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

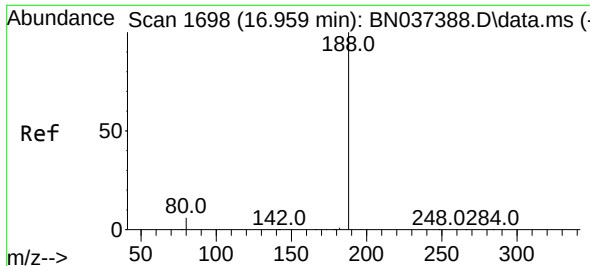
Tgt Ion:154 Resp: 758
Ion Ratio Lower Upper
154 100
153 119.4 94.6 141.8
152 66.6 50.2 75.2



#18
Fluorene
Concen: 0.094 ng
RT: 15.272 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:166 Resp: 1063
Ion Ratio Lower Upper
166 100
165 99.1 79.4 119.2
167 12.2 10.6 15.8

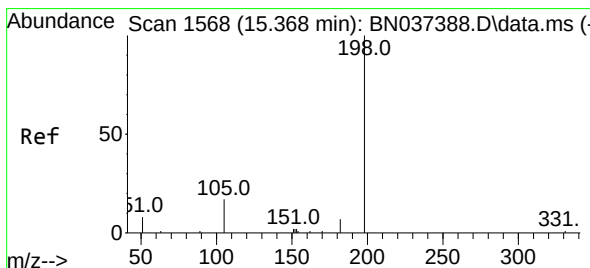
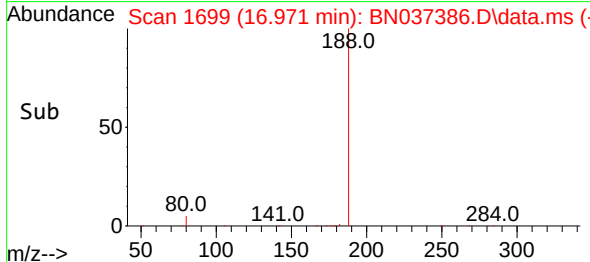
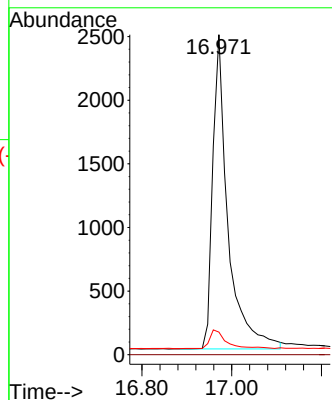
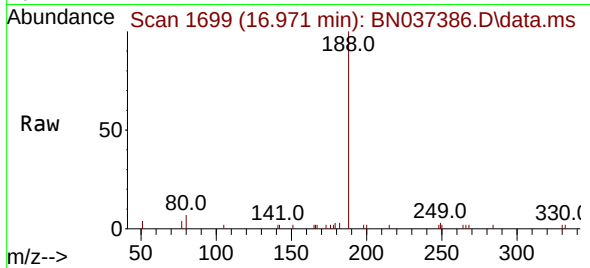




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1
Delta R.T. 0.012 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

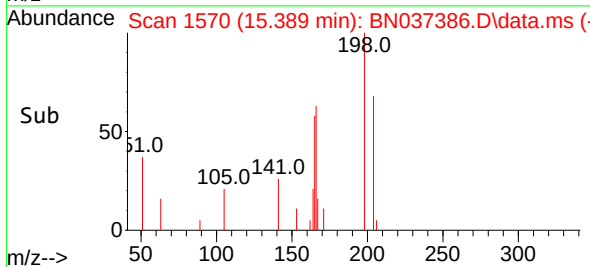
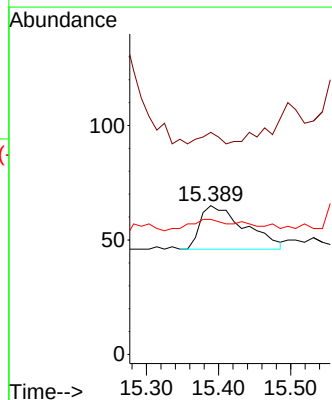
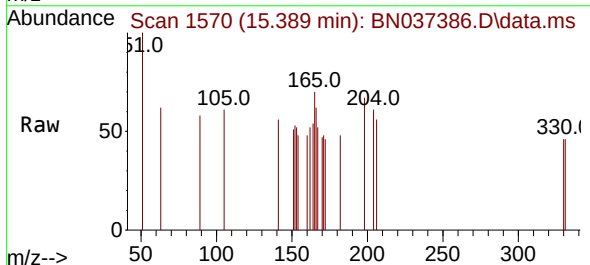
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

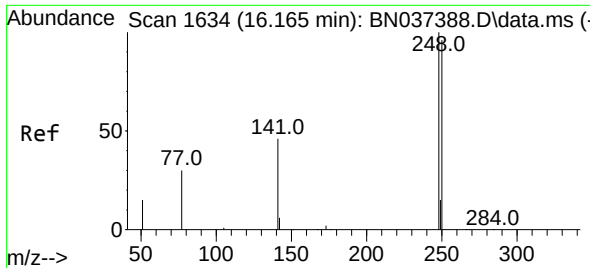
Tgt Ion:188 Resp: 5811
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 7.1 6.2 9.4



#20
4,6-Dinitro-2-methylphenol
Concen: 0.054 ng
RT: 15.389 min Scan# 1570
Delta R.T. 0.021 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

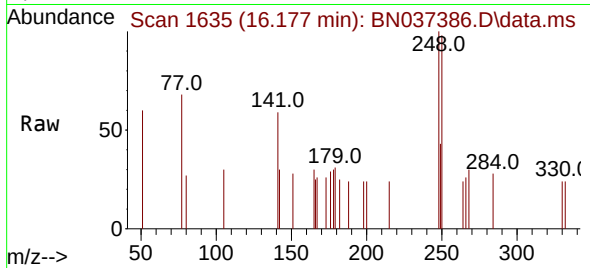
Tgt Ion:198 Resp: 81
Ion Ratio Lower Upper
198 100
51 149.2 38.8 58.2#
105 90.8 29.8 44.6#



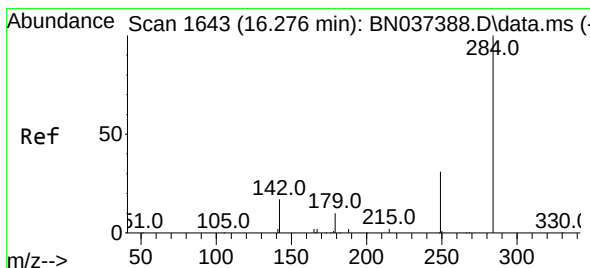
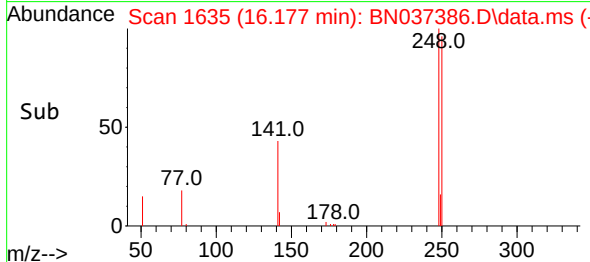
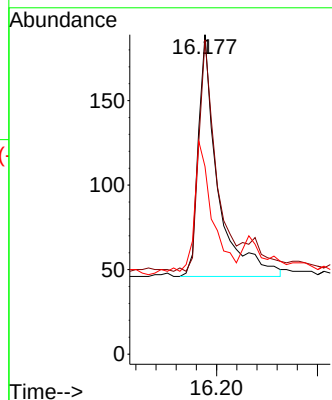


#21
4-Bromophenyl-phenylether
Concen: 0.093 ng
RT: 16.177 min Scan# 1635
Delta R.T. 0.012 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

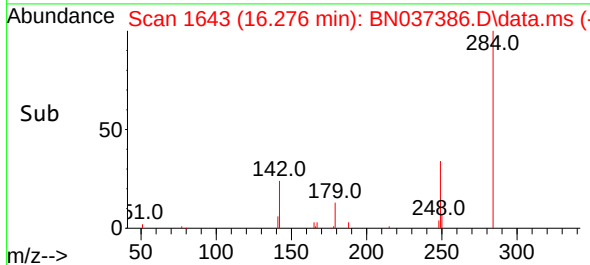
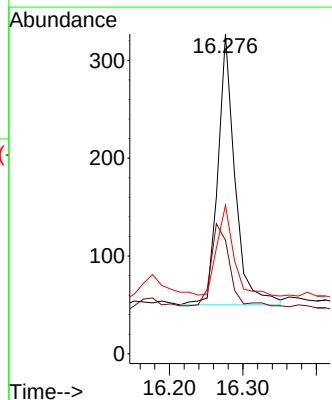
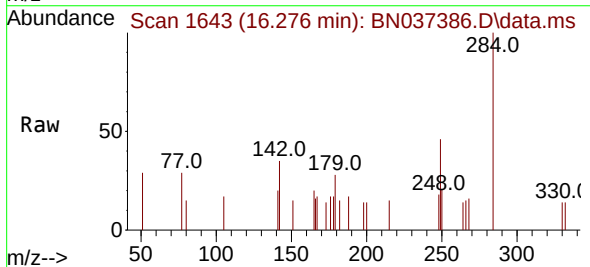


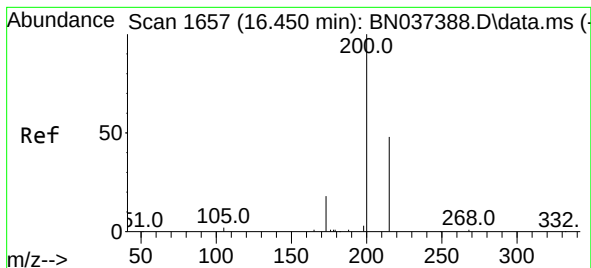
Tgt Ion:248 Resp: 383
Ion Ratio Lower Upper
248 100
250 98.4 77.0 115.4
141 58.7 38.7 58.1#



#22
Hexachlorobenzene
Concen: 0.102 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:284 Resp: 450
Ion Ratio Lower Upper
284 100
142 34.4 27.2 40.8
249 35.1 26.7 40.1





#23

Atrazine

Concen: 0.090 ng

RT: 16.462 min Scan# 1658

Delta R.T. 0.012 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

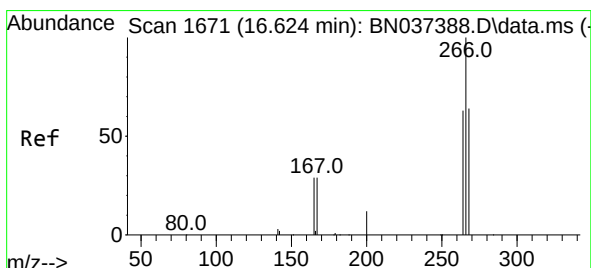
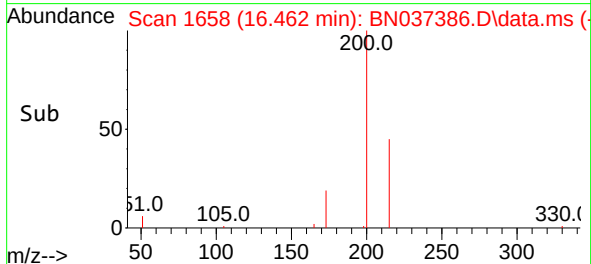
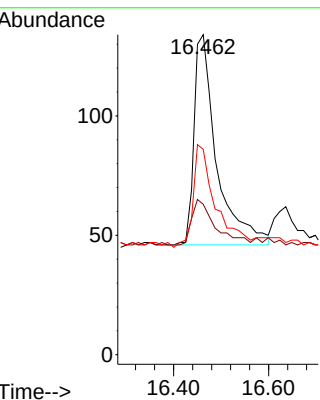
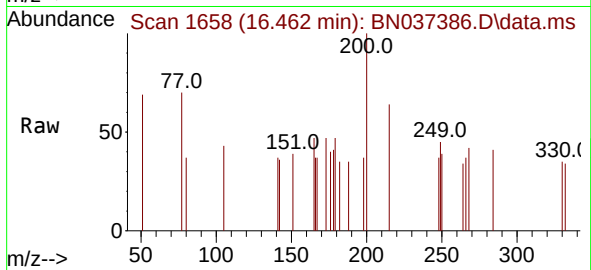
Tgt Ion:200 Resp: 291

Ion Ratio Lower Upper

200 100

173 47.0 19.0 28.6#

215 64.2 41.3 61.9#



#24

Pentachlorophenol

Concen: 0.110 ng

RT: 16.636 min Scan# 1672

Delta R.T. 0.012 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

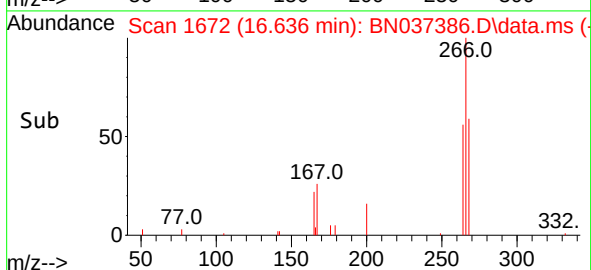
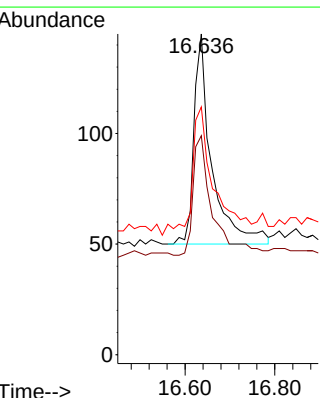
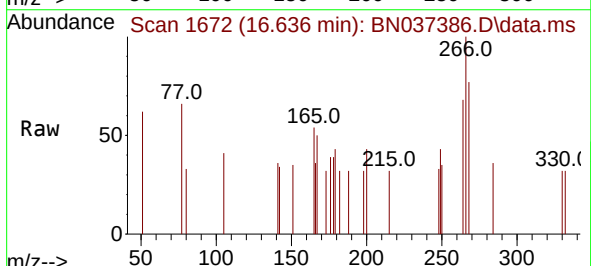
Tgt Ion:266 Resp: 262

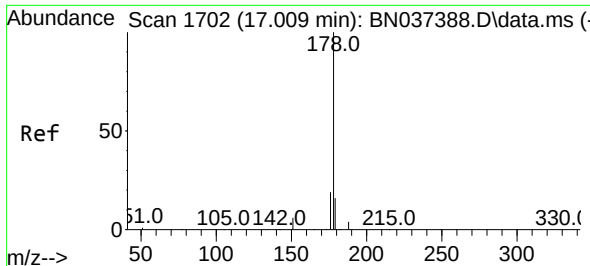
Ion Ratio Lower Upper

266 100

264 61.5 49.2 73.8

268 75.2 54.2 81.4

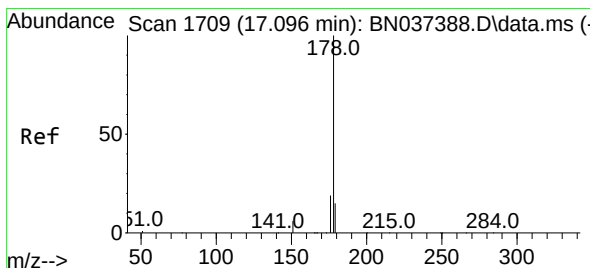
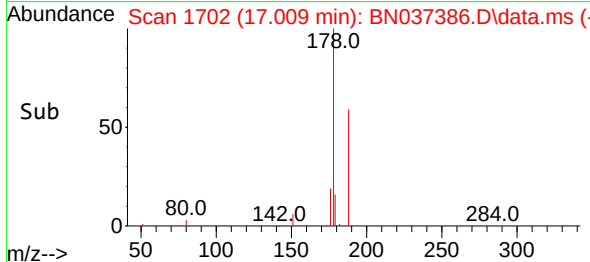
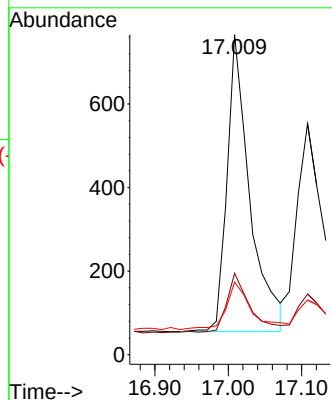
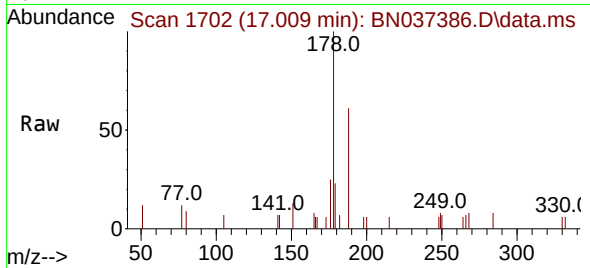




#25
Phenanthrene
Concen: 0.094 ng
RT: 17.009 min Scan# 1710
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

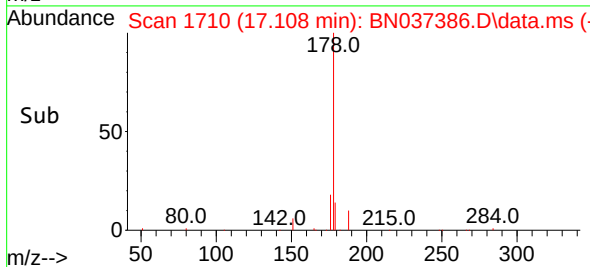
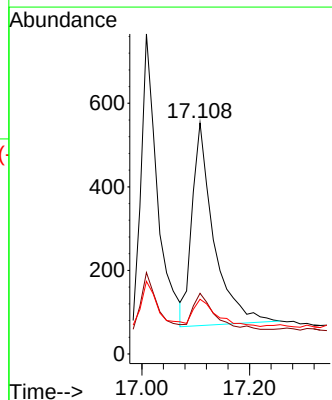
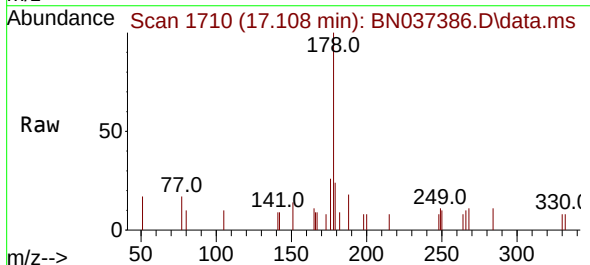
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

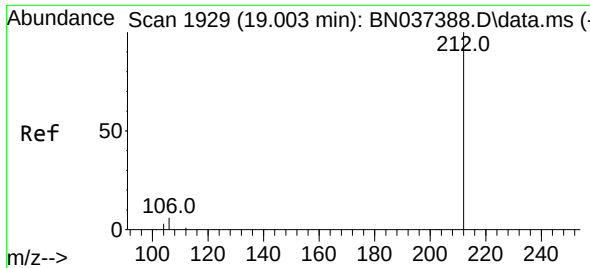
Tgt Ion:178 Resp: 1534
Ion Ratio Lower Upper
178 100
176 20.5 15.6 23.4
179 17.4 12.8 19.2



#26
Anthracene
Concen: 0.090 ng
RT: 17.108 min Scan# 1710
Delta R.T. 0.012 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:178 Resp: 1358
Ion Ratio Lower Upper
178 100
176 18.6 14.9 22.3
179 15.2 12.4 18.6

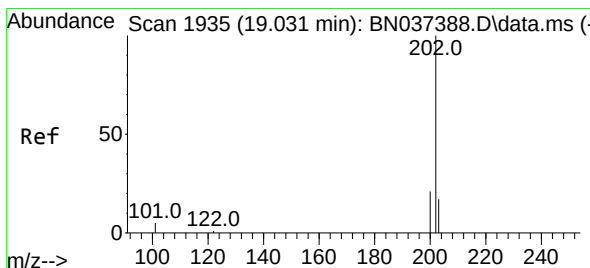
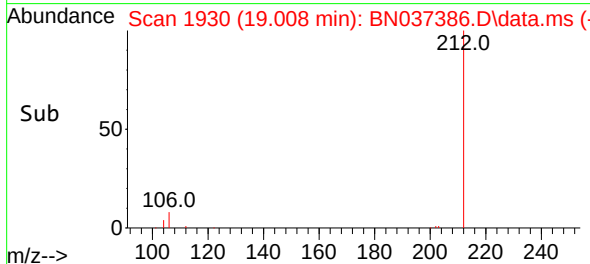
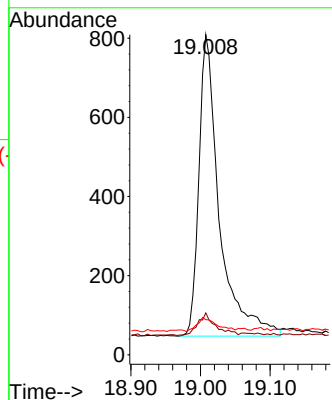
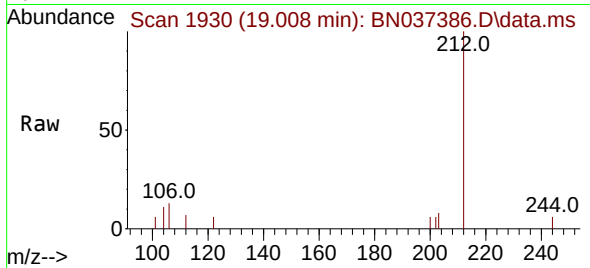




#27
Fluoranthene-d10
Concen: 0.094 ng
RT: 19.008 min Scan# 1930
Delta R.T. 0.005 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

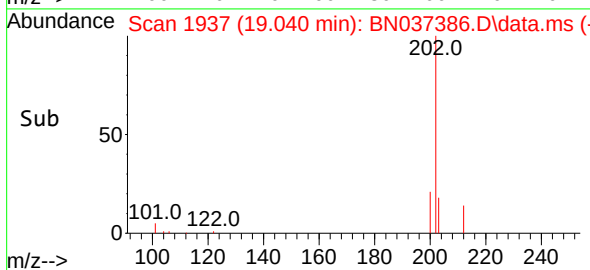
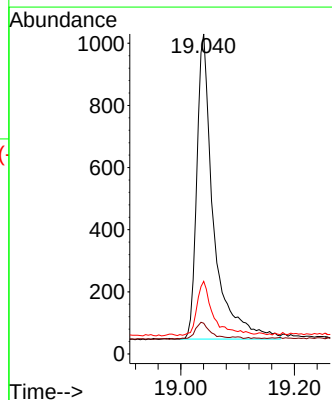
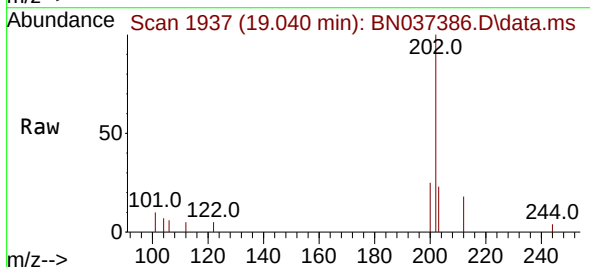
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

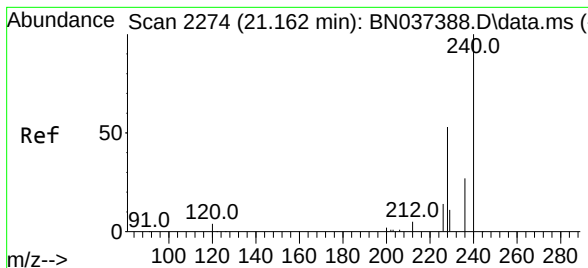
Tgt Ion:212 Resp: 1559
Ion Ratio Lower Upper
212 100
106 6.3 4.5 6.7
104 4.4 2.7 4.1#



#28
Fluoranthene
Concen: 0.096 ng
RT: 19.040 min Scan# 1937
Delta R.T. 0.009 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:202 Resp: 2001
Ion Ratio Lower Upper
202 100
101 5.3 3.8 5.6
203 17.4 13.5 20.3





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Instrument :

BNA_N

ClientSampleId :

SSTDICC0.1

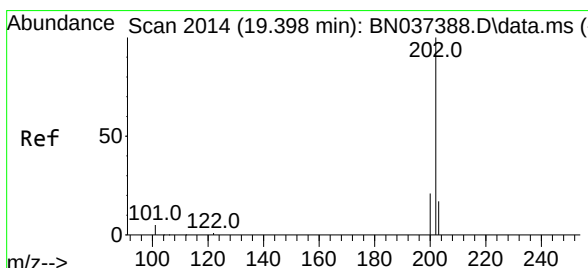
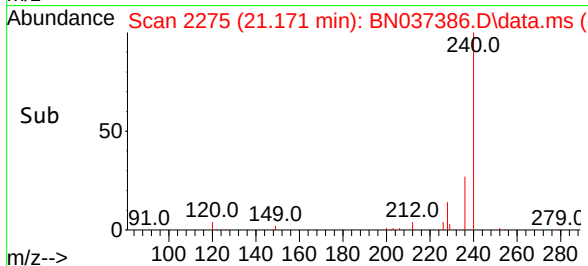
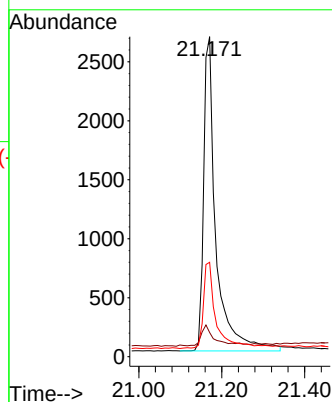
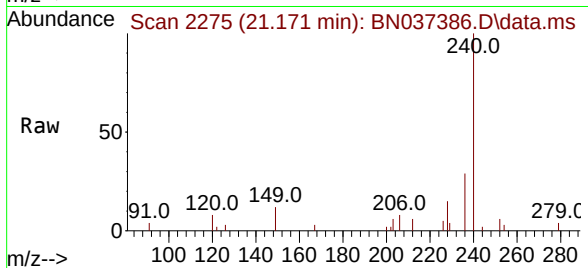
Tgt Ion:240 Resp: 5498

Ion Ratio Lower Upper

240 100

120 7.6 5.3 7.9

236 29.5 22.7 34.1



#30

Pyrene

Concen: 0.096 ng

RT: 19.402 min Scan# 2015

Delta R.T. 0.005 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

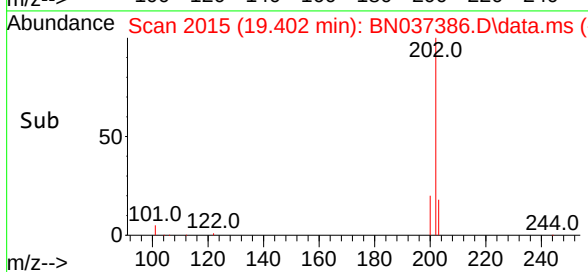
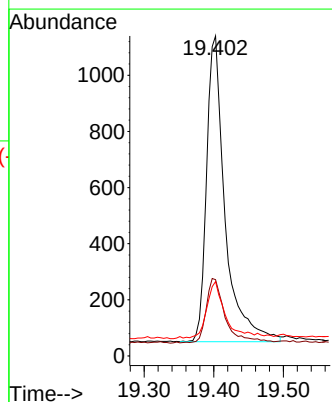
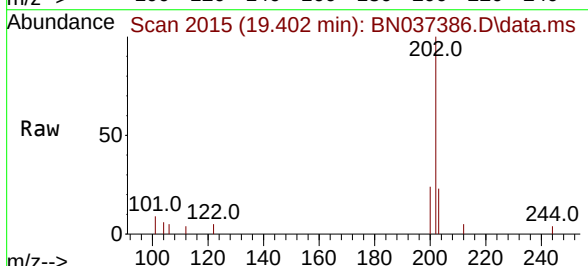
Tgt Ion:202 Resp: 2006

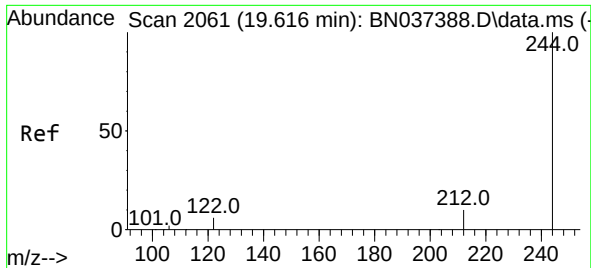
Ion Ratio Lower Upper

202 100

200 21.0 16.5 24.7

203 18.0 14.2 21.2

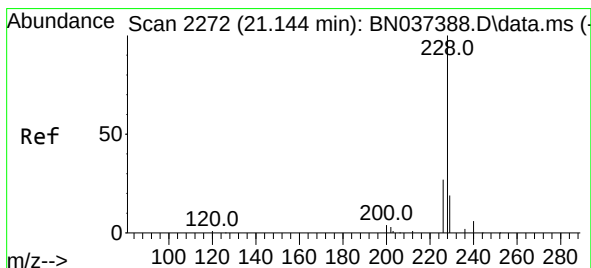
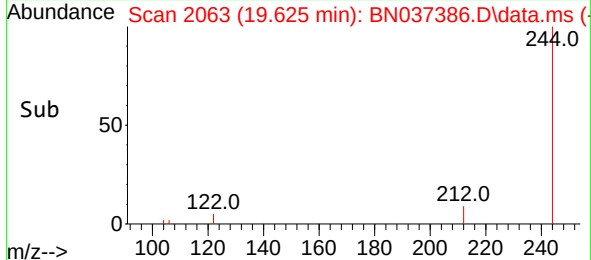
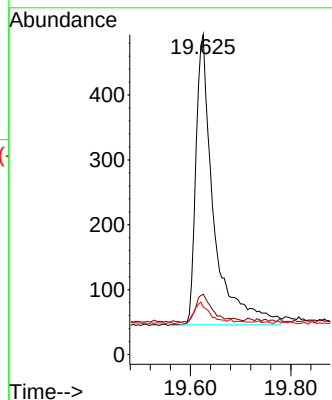
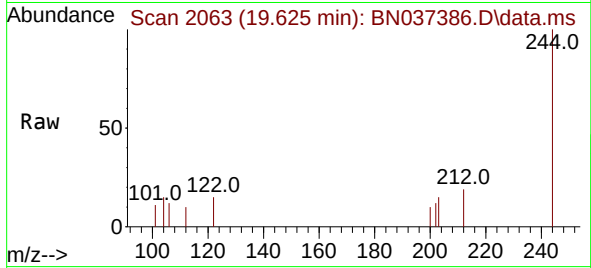




#31
 Terphenyl-d14
 Concen: 0.094 ng
 RT: 19.625 min Scan# 2063
 Delta R.T. 0.009 min
 Lab File: BN037386.D
 Acq: 26 Jun 2025 10:41

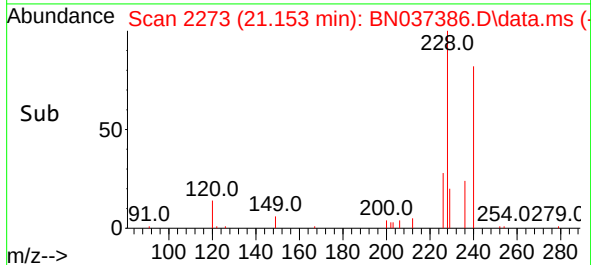
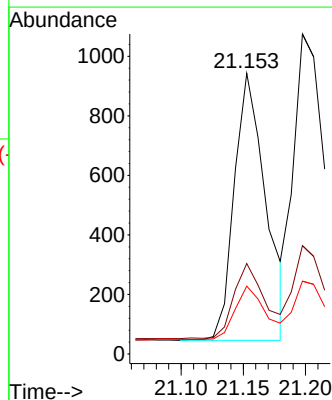
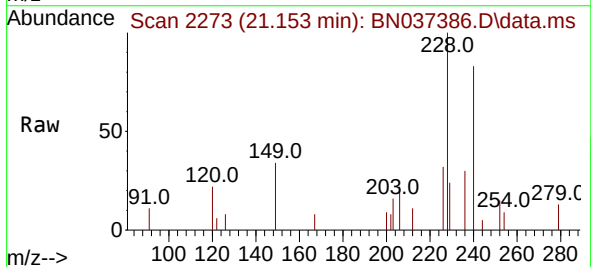
Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

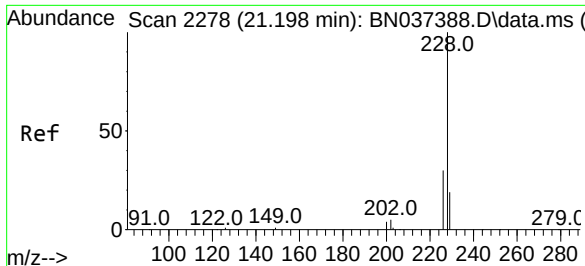
Tgt Ion:244 Resp: 1099
 Ion Ratio Lower Upper
 244 100
 212 18.9 9.1 13.7#
 122 14.8 6.3 9.5#



#32
 Benzo(a)anthracene
 Concen: 0.091 ng
 RT: 21.153 min Scan# 2273
 Delta R.T. 0.009 min
 Lab File: BN037386.D
 Acq: 26 Jun 2025 10:41

Tgt Ion:228 Resp: 1579
 Ion Ratio Lower Upper
 228 100
 226 32.2 22.6 34.0
 229 24.2 16.2 24.2

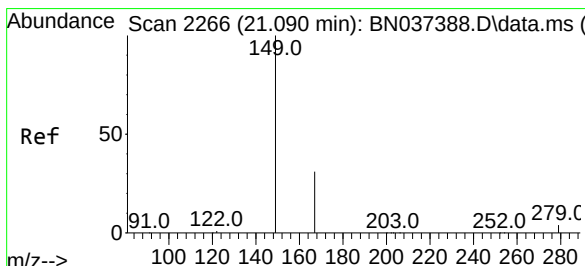
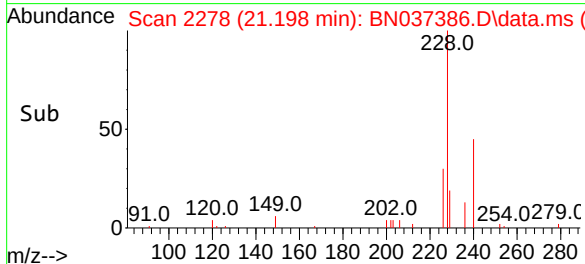
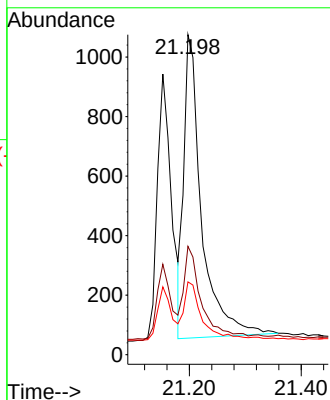
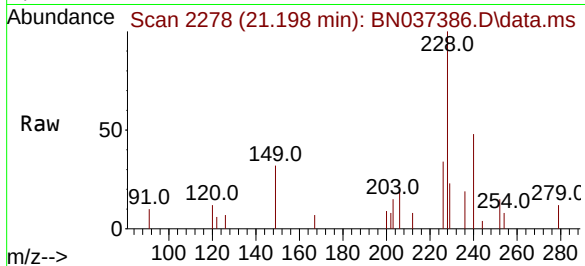




#33
Chrysene
Concen: 0.105 ng
RT: 21.198 min Scan# 21
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

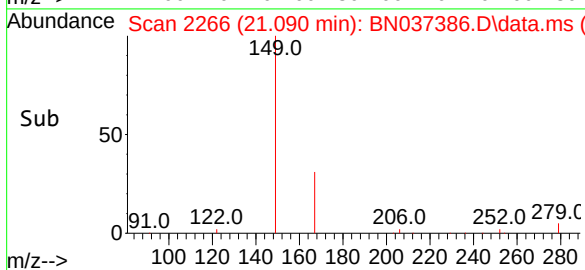
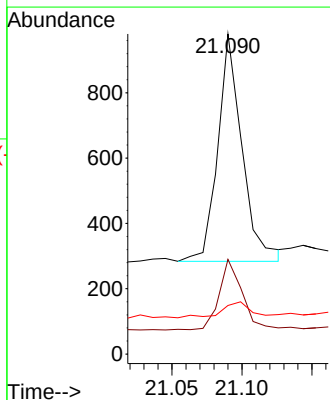
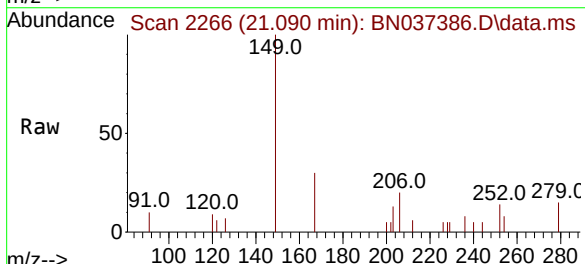
Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

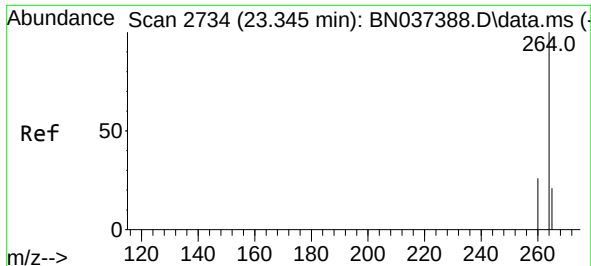
Tgt Ion:228 Resp: 2241
Ion Ratio Lower Upper
228 100
226 33.9 24.5 36.7
229 22.8 16.1 24.1



#34
Bis(2-ethylhexyl)phthalate
Concen: 0.123 ng
RT: 21.090 min Scan# 2266
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

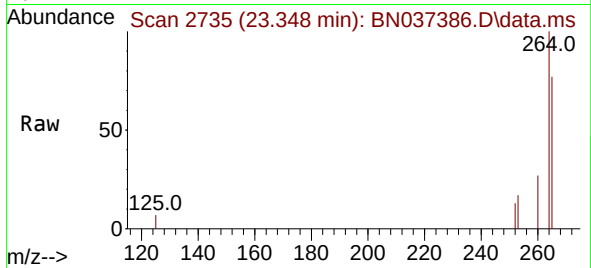
Tgt Ion:149 Resp: 839
Ion Ratio Lower Upper
149 100
167 30.3 24.8 37.2
279 8.9 5.0 7.6#



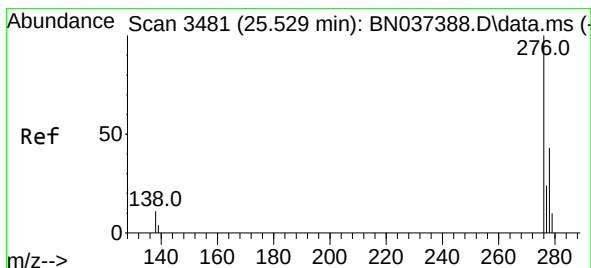
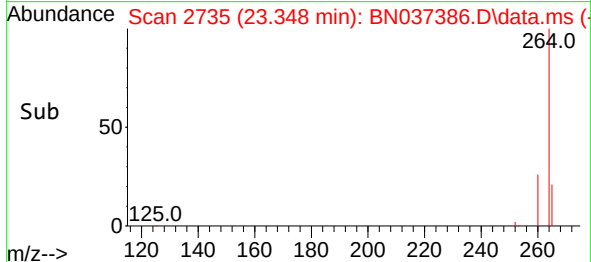
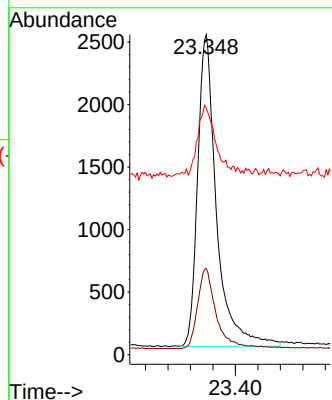


#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.348 min Scan# 21
 Delta R.T. 0.003 min
 Lab File: BN037386.D
 Acq: 26 Jun 2025 10:41

Instrument :
 BNA_N
 ClientSampleId :
 SSTDICC0.1

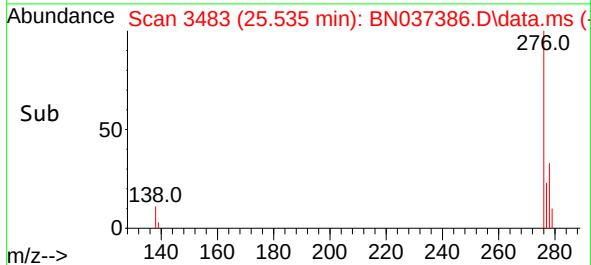
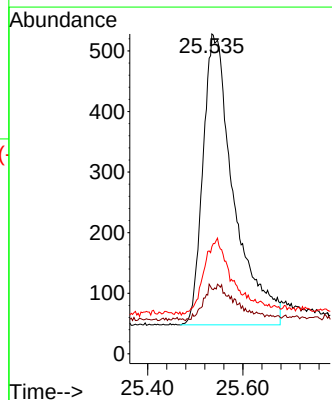
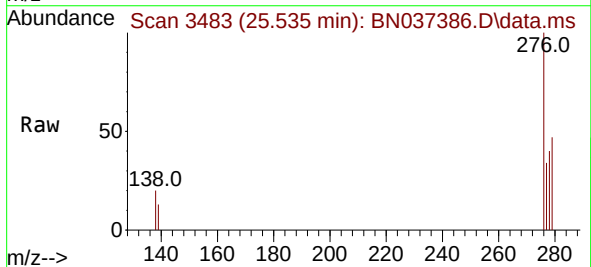


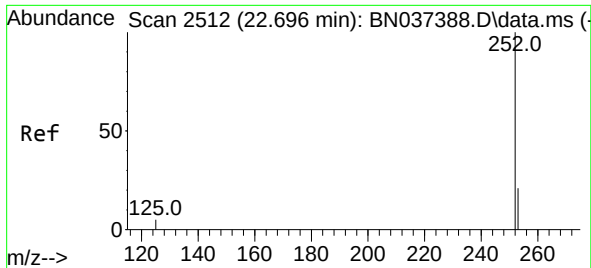
Tgt Ion:264 Resp: 5798
 Ion Ratio Lower Upper
 264 100
 260 26.9 21.4 32.0
 265 77.1 56.2 84.4



#36
 Indeno(1,2,3-cd)pyrene
 Concen: 0.088 ng
 RT: 25.535 min Scan# 3483
 Delta R.T. 0.006 min
 Lab File: BN037386.D
 Acq: 26 Jun 2025 10:41

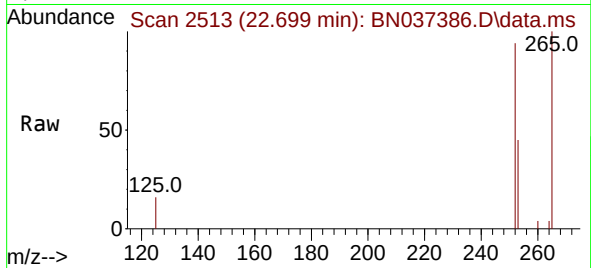
Tgt Ion:276 Resp: 2156
 Ion Ratio Lower Upper
 276 100
 138 4.1 8.5 12.7#
 277 21.2 19.7 29.5



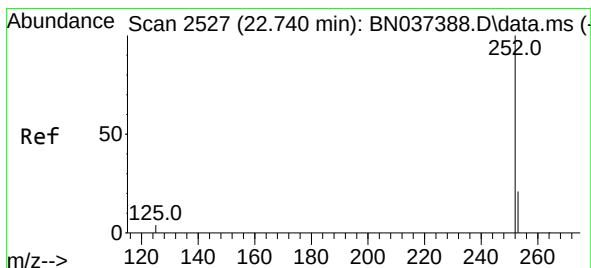
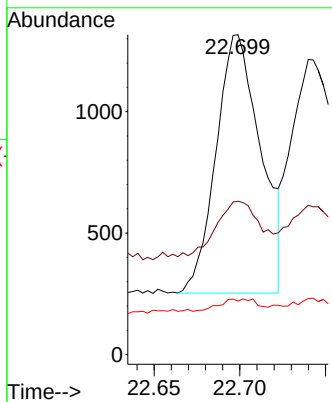


#37
Benzo(b)fluoranthene
Concen: 0.094 ng
RT: 22.699 min Scan# 2513
Delta R.T. 0.003 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

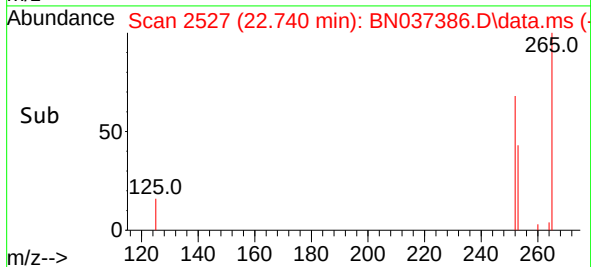
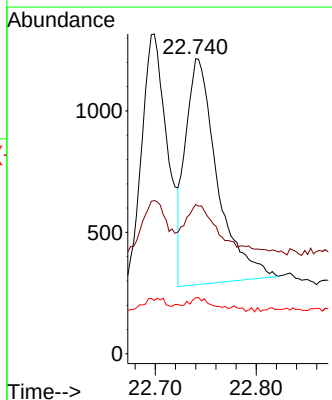
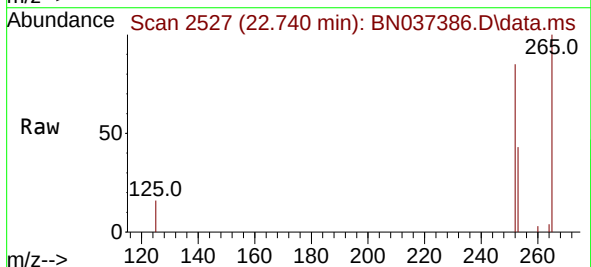


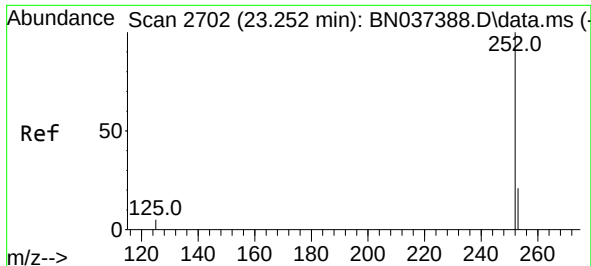
Tgt Ion:252 Resp: 1927
Ion Ratio Lower Upper
252 100
253 47.9 22.8 34.2#
125 16.7 6.2 9.4#



#38
Benzo(k)fluoranthene
Concen: 0.093 ng
RT: 22.740 min Scan# 2527
Delta R.T. -0.000 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Tgt Ion:252 Resp: 2041
Ion Ratio Lower Upper
252 100
253 50.6 23.2 34.8#
125 19.0 6.0 9.0#





#39

Benzo(a)pyrene

Concen: 0.097 ng

RT: 23.254 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

Instrument :

BNA_N

ClientSampleId :

SSTDIC0.1

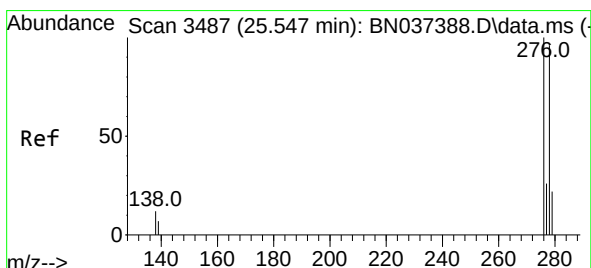
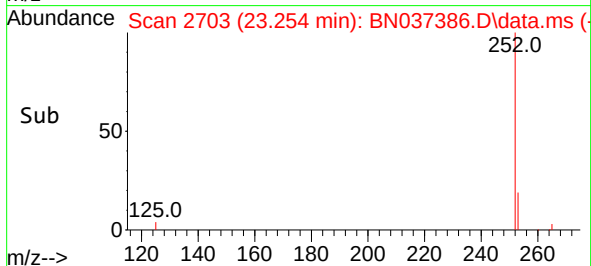
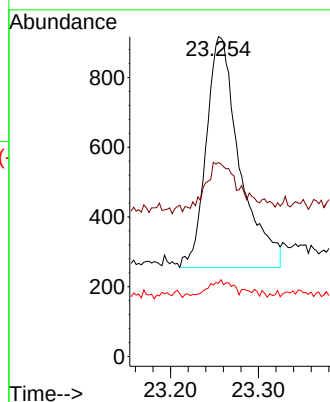
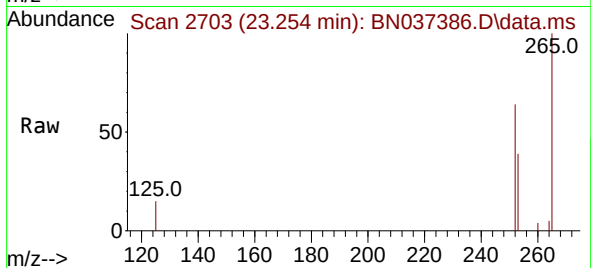
Tgt Ion:252 Resp: 1755

Ion Ratio Lower Upper

252 100

253 60.6 25.6 38.4#

125 22.9 7.5 11.3#



#40

Dibenzo(a,h)anthracene

Concen: 0.081 ng

RT: 25.567 min Scan# 3494

Delta R.T. 0.020 min

Lab File: BN037386.D

Acq: 26 Jun 2025 10:41

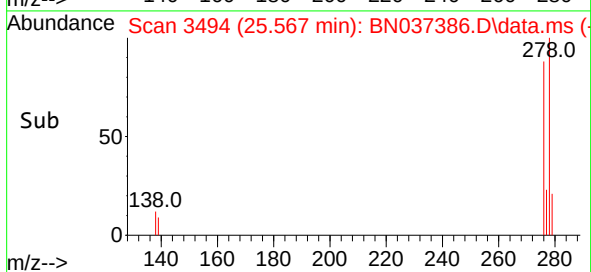
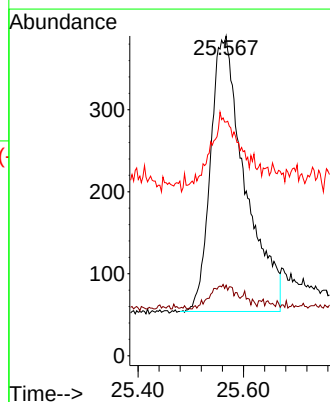
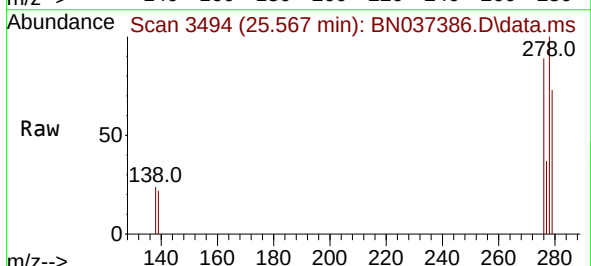
Tgt Ion:278 Resp: 1522

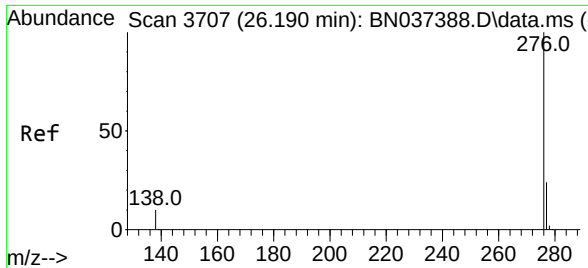
Ion Ratio Lower Upper

278 100

139 22.1 8.5 12.7#

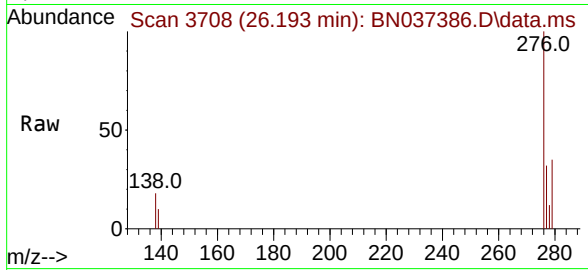
279 73.1 27.5 41.3#



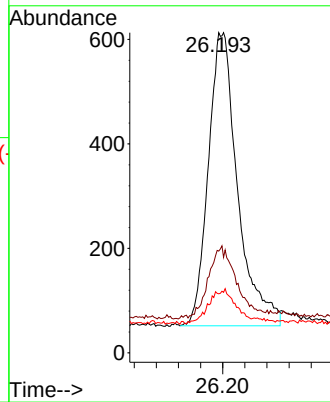
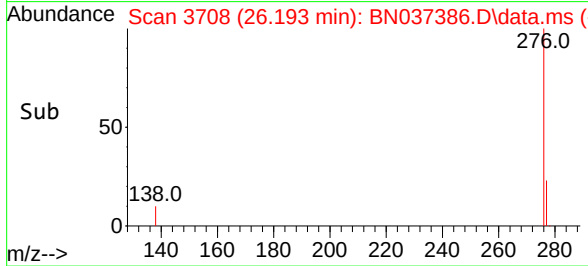


#41
Benzo(g,h,i)perylene
Concen: 0.092 ng
RT: 26.193 min Scan# 31
Delta R.T. 0.003 min
Lab File: BN037386.D
Acq: 26 Jun 2025 10:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1



Tgt Ion:276 Resp: 2066
Ion Ratio Lower Upper
276 100
277 31.8 21.0 31.4#
138 18.4 9.6 14.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
 Data File : BN037395.D
 Acq On : 26 Jun 2025 16:06
 Operator : RC/JU
 Sample : Q2345-01
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 BNA_N
 ClientSampleId :
 EB02-20250616

Quant Time: Jun 26 16:29:04 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jun 26 16:06:33 2025
 Response via : Initial Calibration

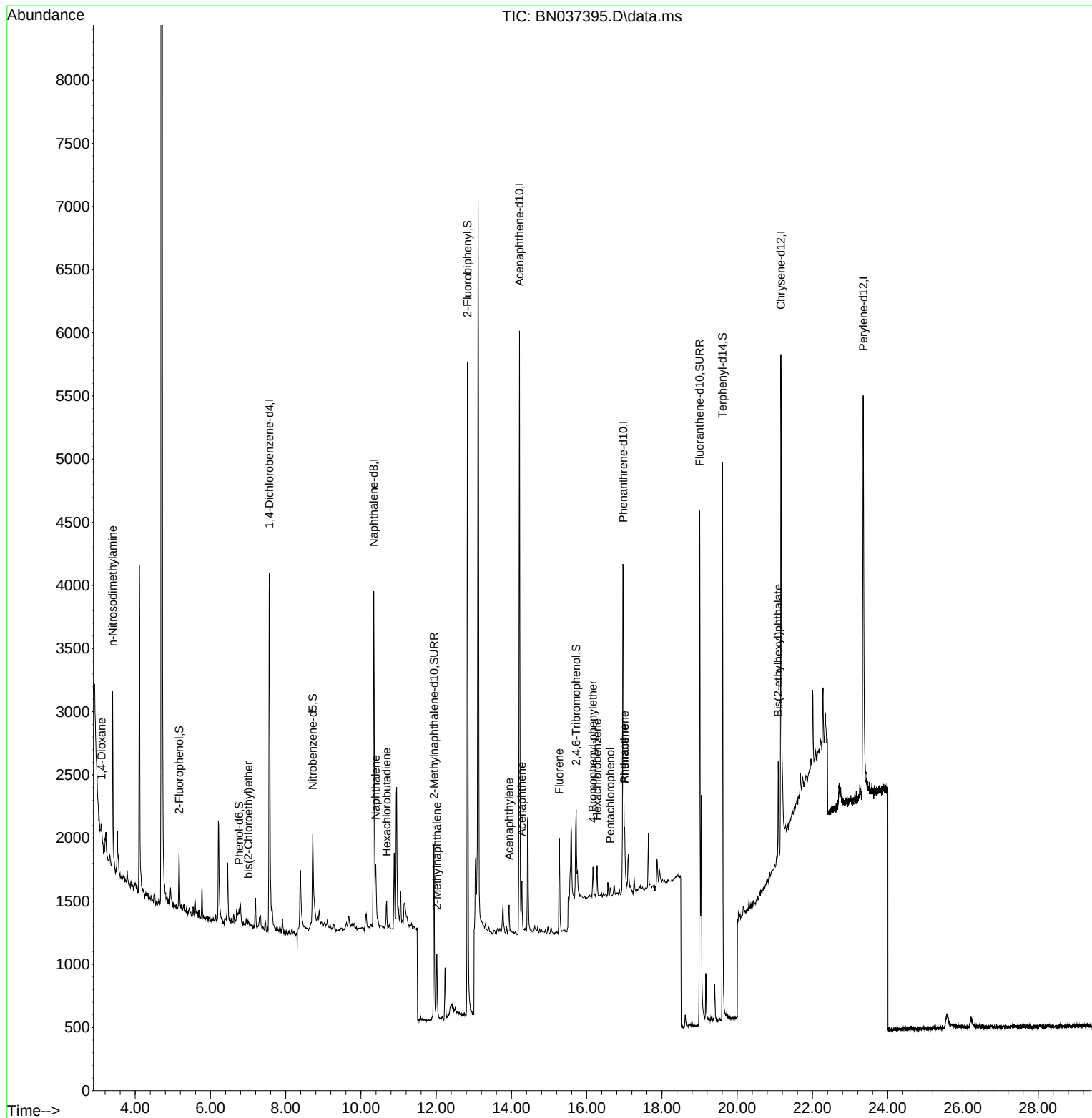
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.568	152	1748	0.400	ng	0.00
7) Naphthalene-d8	10.340	136	3967	0.400	ng	0.00
13) Acenaphthene-d10	14.213	164	2665	0.400	ng	0.00
19) Phenanthrene-d10	16.971	188	5237	0.400	ng	# 0.01
29) Chrysene-d12	21.162	240	4862	0.400	ng	# 0.00
35) Perylene-d12	23.351	264	4950	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.170	112	395	0.117	ng	0.00
5) Phenol-d6	6.759	99	216	0.062	ng	0.01
8) Nitrobenzene-d5	8.717	82	949	0.299	ng	0.00
11) 2-Methylnaphthalene-d10	11.940	152	2153	0.351	ng	0.00
14) 2,4,6-Tribromophenol	15.718	330	560	0.358	ng	0.00
15) 2-Fluorobiphenyl	12.833	172	5087	0.442	ng	0.00
27) Fluoranthene-d10	19.003	212	5956	0.397	ng	0.00
31) Terphenyl-d14	19.611	244	4896	0.472	ng	0.00
Target Compounds						
2) 1,4-Dioxane	3.104	88	62	0.037	ng	# 1
3) n-Nitrosodimethylamine	3.400	42	220	0.134	ng	# 1
6) bis(2-Chloroethyl)ether	7.004	93	63	0.020	ng	# 78
9) Naphthalene	10.394	128	573	0.056	ng	# 74
10) Hexachlorobutadiene	10.682	225	181	0.045	ng	# 96
12) 2-Methylnaphthalene	12.016	142	396	0.056	ng	# 95
16) Acenaphthylene	13.935	152	288	0.026	ng	# 88
17) Acenaphthene	14.277	154	185	0.026	ng	97
18) Fluorene	15.271	166	329	0.032	ng	98
21) 4-Bromophenyl-phenylether	16.164	248	145	0.039	ng	# 86
22) Hexachlorobenzene	16.276	284	189	0.048	ng	# 87
24) Pentachlorophenol	16.624	266	59	0.028	ng	# 85
25) Phenanthrene	17.009	178	425	0.029	ng	97
26) Anthracene	17.009	178	425	0.031	ng	95
34) Bis(2-ethylhexyl)phtha...	21.090	149	706	0.117	ng	# 96

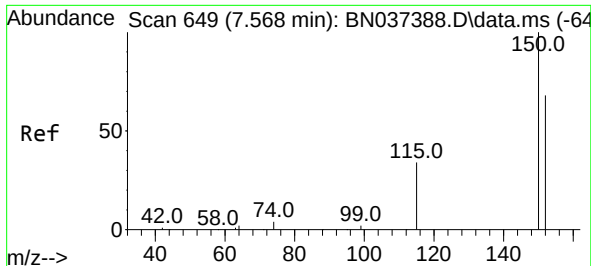
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN062625\
Data File : BN037395.D
Acq On : 26 Jun 2025 16:06
Operator : RC/JU
Sample : Q2345-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EB02-20250616

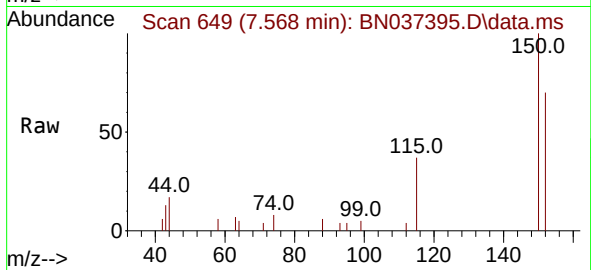
Quant Time: Jun 26 16:29:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN062625.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 26 16:06:33 2025
Response via : Initial Calibration



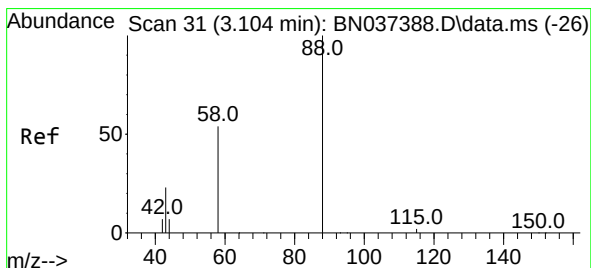
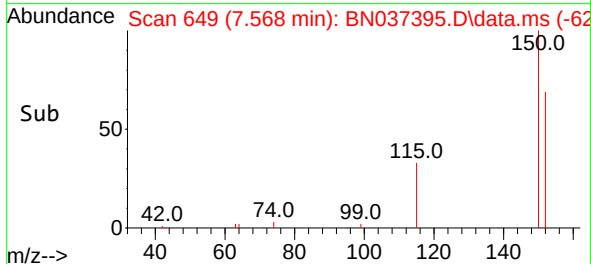
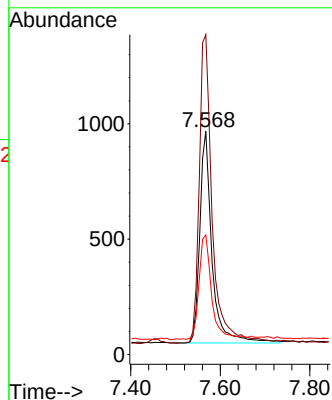


#1
 1,4-Dichlorobenzene-d4
 Concen: 0.400 ng
 RT: 7.568 min Scan# 64
 Delta R.T. -0.000 min
 Lab File: BN037395.D
 Acq: 26 Jun 2025 16:06

Instrument :
 BNA_N
 ClientSampleId :
 EB02-20250616

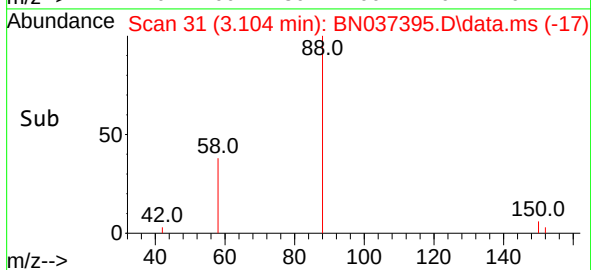
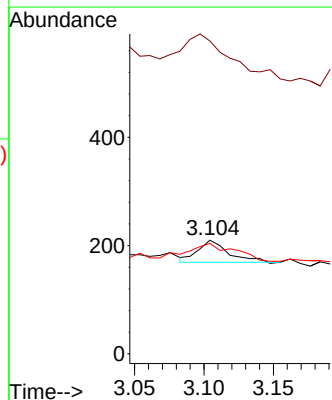
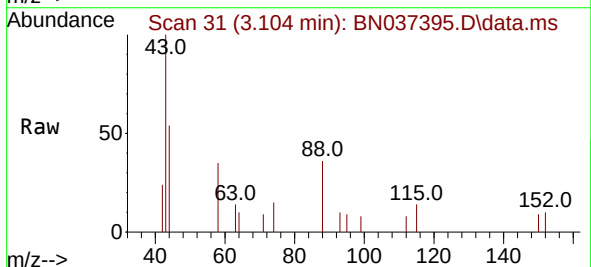


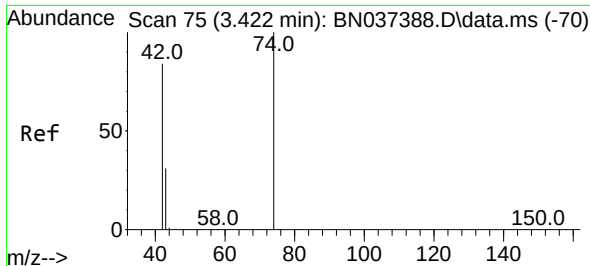
Tgt Ion:152 Resp: 1748
 Ion Ratio Lower Upper
 152 100
 150 143.3 116.2 174.2
 115 53.6 42.9 64.3



#2
 1,4-Dioxane
 Concen: 0.037 ng
 RT: 3.104 min Scan# 31
 Delta R.T. -0.000 min
 Lab File: BN037395.D
 Acq: 26 Jun 2025 16:06

Tgt Ion: 88 Resp: 62
 Ion Ratio Lower Upper
 88 100
 43 375.8 21.6 32.4#
 58 129.0 45.9 68.9#

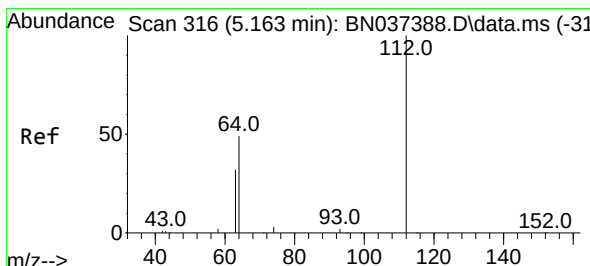
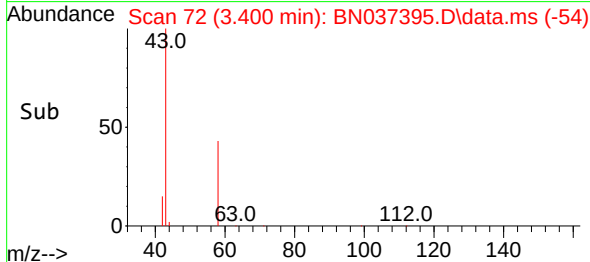
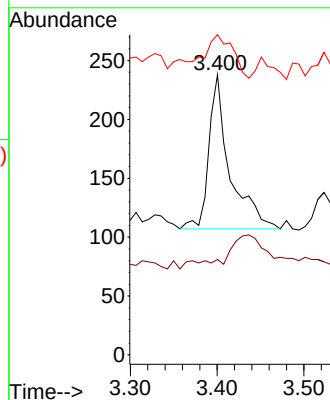
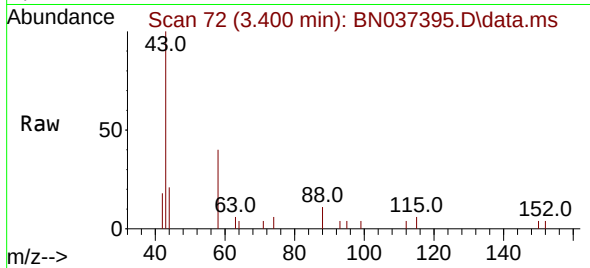




#3
n-Nitrosodimethylamine
Concen: 0.134 ng
RT: 3.400 min Scan# 71
Delta R.T. -0.022 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

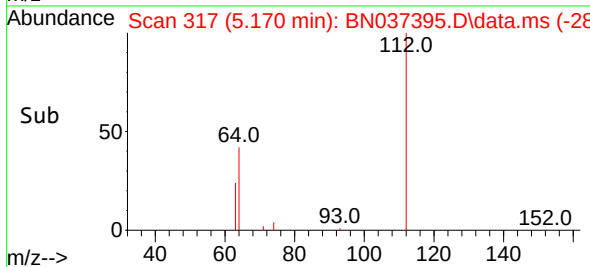
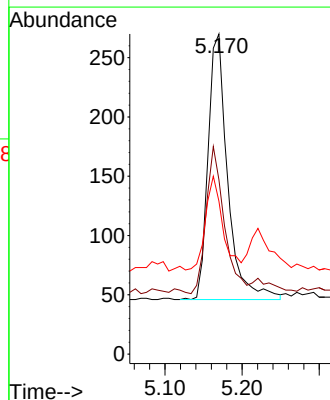
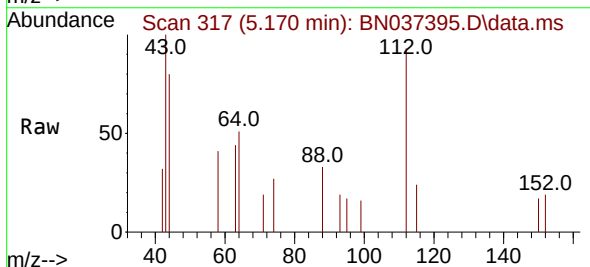
Instrument :
BNA_N
ClientSampleId :
EB02-20250616

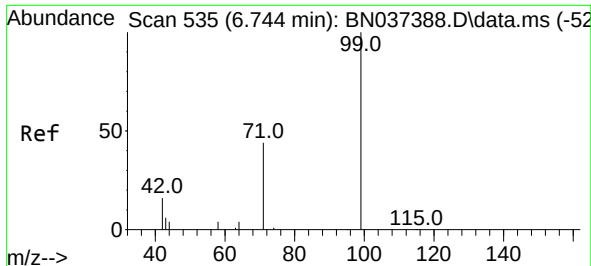
Tgt Ion: 42 Resp: 220
Ion Ratio Lower Upper
42 100
74 0.0 97.8 146.8#
44 36.8 8.7 13.1#



#4
2-Fluorophenol
Concen: 0.117 ng
RT: 5.170 min Scan# 317
Delta R.T. 0.007 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

Tgt Ion: 112 Resp: 395
Ion Ratio Lower Upper
112 100
64 51.4 40.3 60.5
63 33.7 26.1 39.1

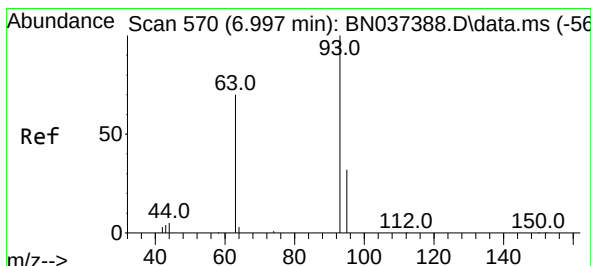
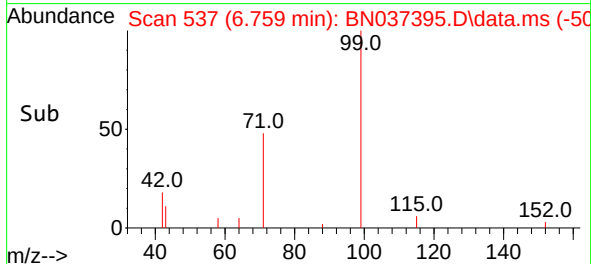
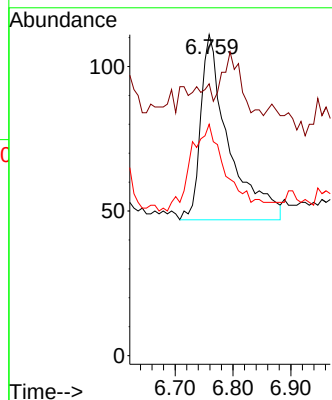
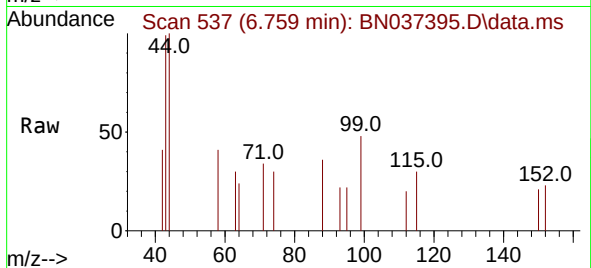




#5
Phenol-d6
Concen: 0.062 ng
RT: 6.759 min Scan# 511
Delta R.T. 0.014 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

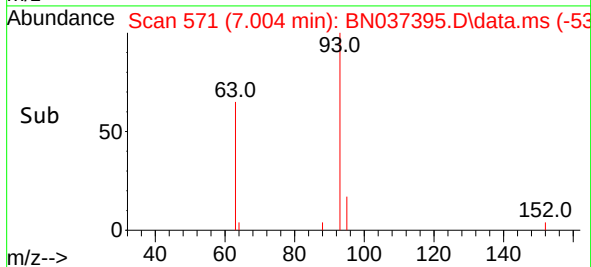
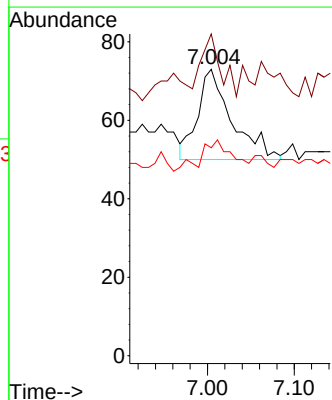
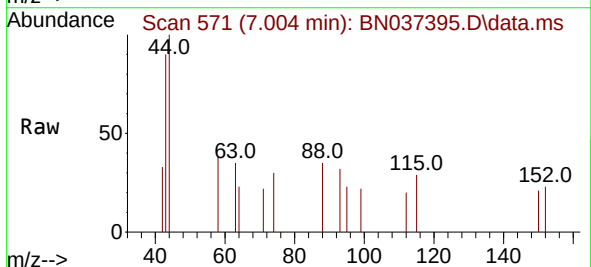
Instrument :
BNA_N
ClientSampleId :
EB02-20250616

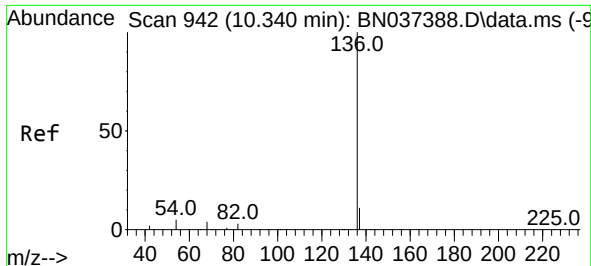
Tgt Ion: 99 Resp: 216
Ion Ratio Lower Upper
99 100
42 0.0 15.6 23.4#
71 60.2 35.8 53.8#



#6
bis(2-Chloroethyl)ether
Concen: 0.020 ng
RT: 7.004 min Scan# 571
Delta R.T. 0.007 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

Tgt Ion: 93 Resp: 63
Ion Ratio Lower Upper
93 100
63 38.1 49.6 74.4#
95 31.7 23.9 35.9

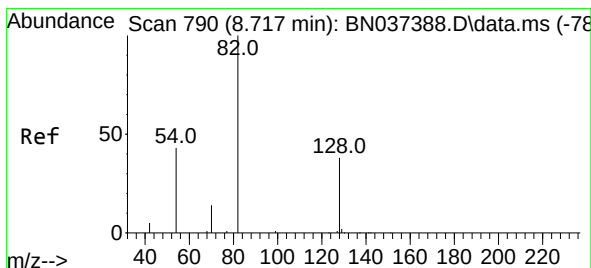
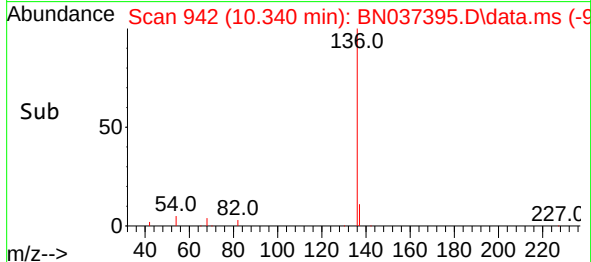
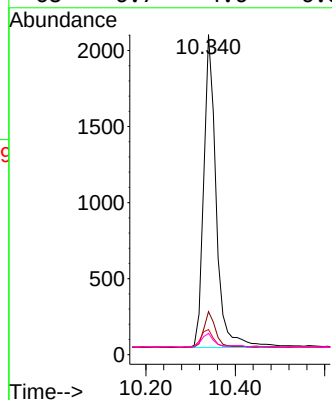
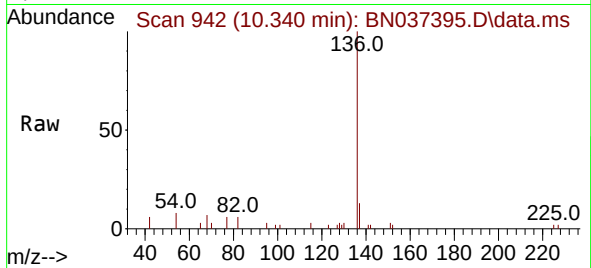




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.340 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

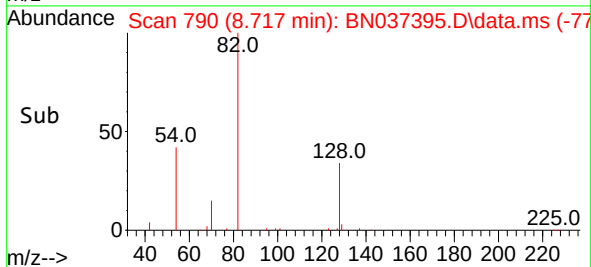
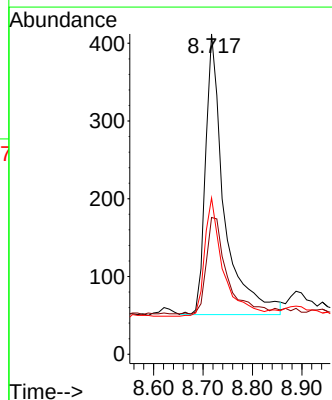
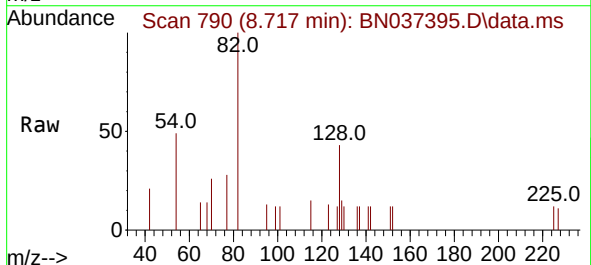
Instrument :
BNA_N
ClientSampleId :
EB02-20250616

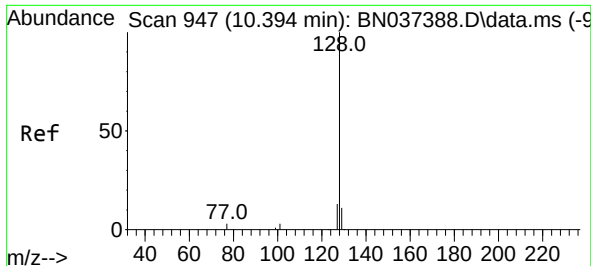
Tgt Ion:	136	Resp:	3967
Ion	Ratio	Lower	Upper
136	100		
137	13.5	10.4	15.6
54	7.8	5.6	8.4
68	6.7	4.6	6.8



#8
Nitrobenzene-d5
Concen: 0.299 ng
RT: 8.717 min Scan# 790
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

Tgt Ion:	82	Resp:	949
Ion	Ratio	Lower	Upper
82	100		
128	42.7	34.0	51.0
54	48.8	37.7	56.5

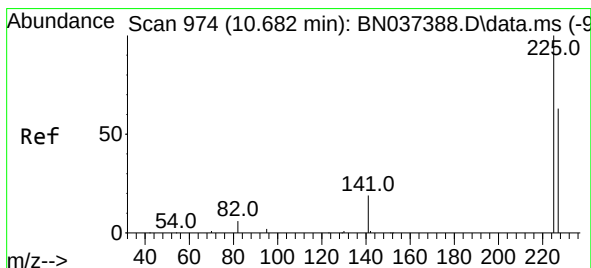
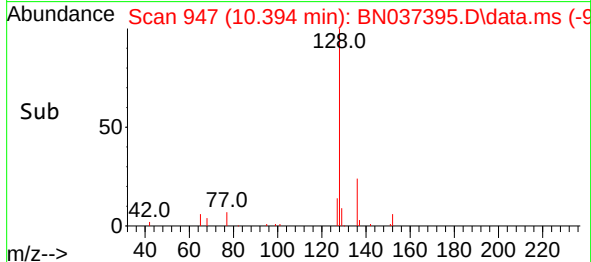
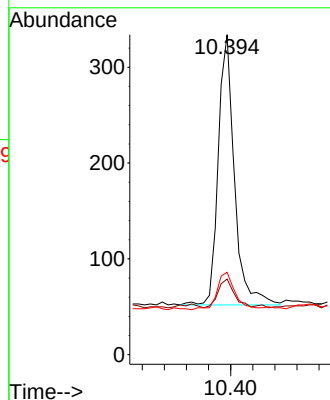
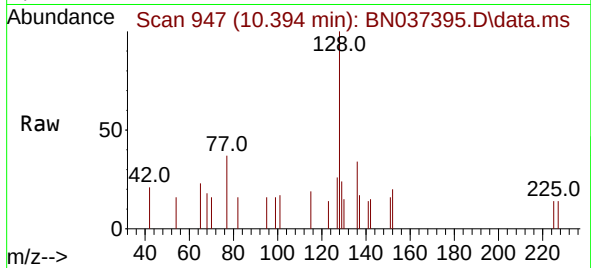




#9
Naphthalene
Concen: 0.056 ng
RT: 10.394 min Scan# 947
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

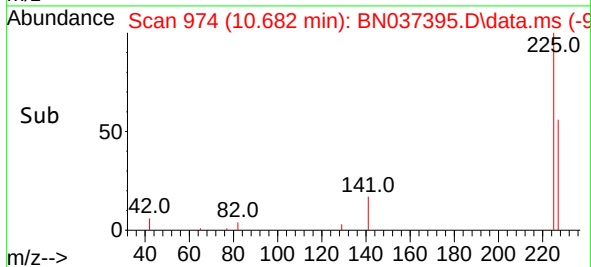
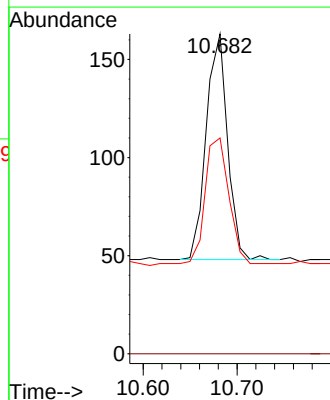
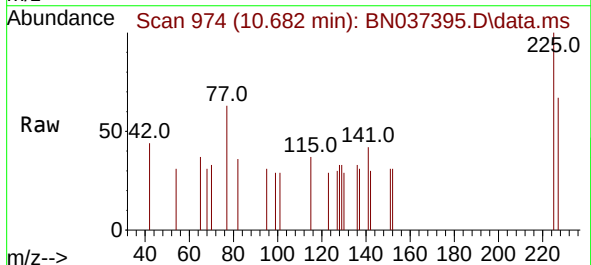
Instrument :
BNA_N
ClientSampleId :
EB02-20250616

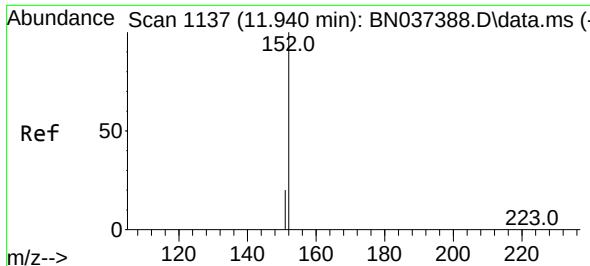
Tgt Ion:128 Resp: 573
Ion Ratio Lower Upper
128 100
129 23.7 10.4 15.6#
127 25.7 12.2 18.4#



#10
Hexachlorobutadiene
Concen: 0.045 ng
RT: 10.682 min Scan# 974
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

Tgt Ion:225 Resp: 181
Ion Ratio Lower Upper
225 100
223 0.0 0.0 0.0
227 65.7 49.9 74.9

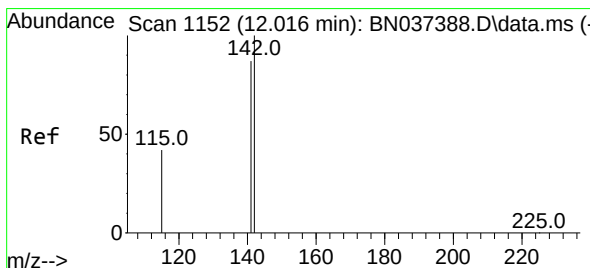
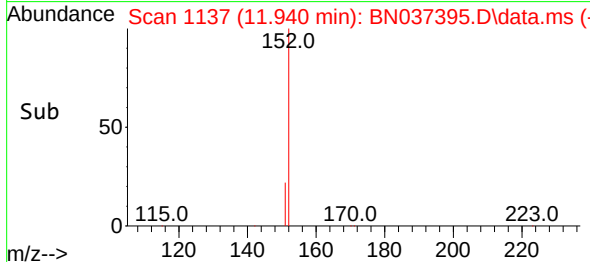
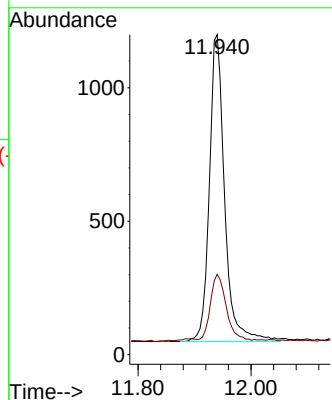
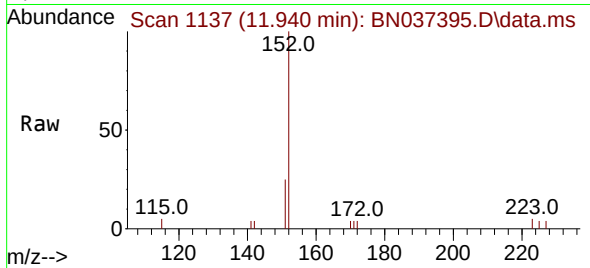




#11
2-Methylnaphthalene-d10
Concen: 0.351 ng
RT: 11.940 min Scan# 1137
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

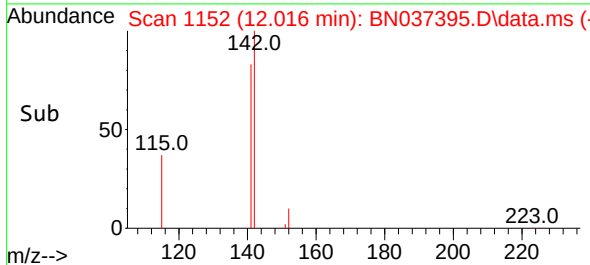
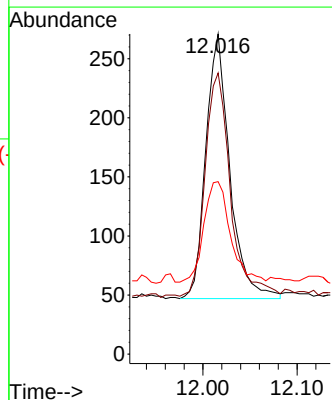
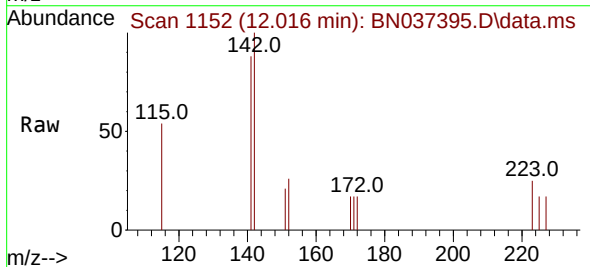
Instrument :
BNA_N
ClientSampleId :
EB02-20250616

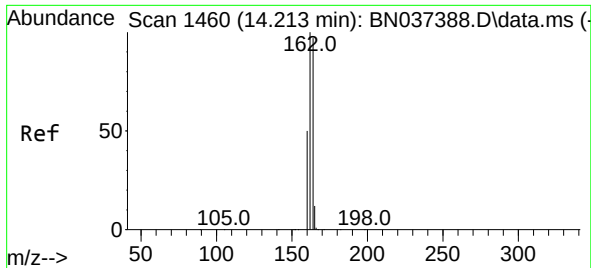
Tgt Ion:152 Resp: 2153
Ion Ratio Lower Upper
152 100
151 22.2 18.4 27.6



#12
2-Methylnaphthalene
Concen: 0.056 ng
RT: 12.016 min Scan# 1152
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

Tgt Ion:142 Resp: 396
Ion Ratio Lower Upper
142 100
141 87.8 70.1 105.1
115 53.9 35.8 53.6#

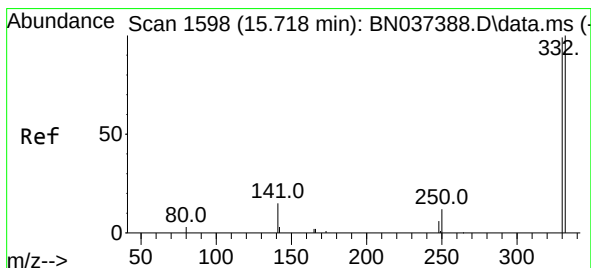
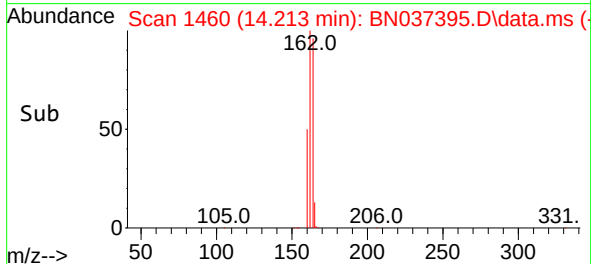
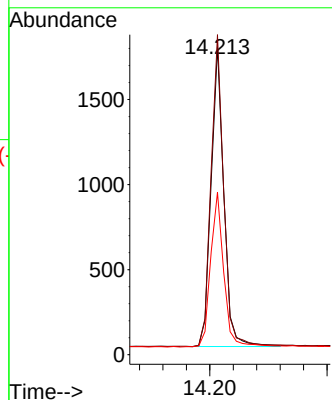
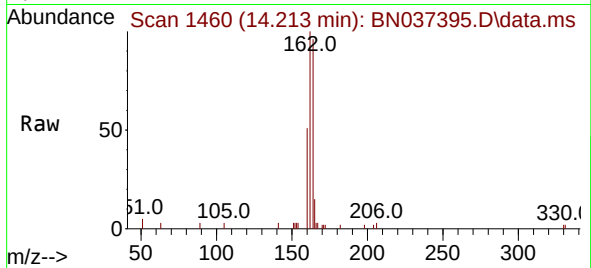




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.213 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

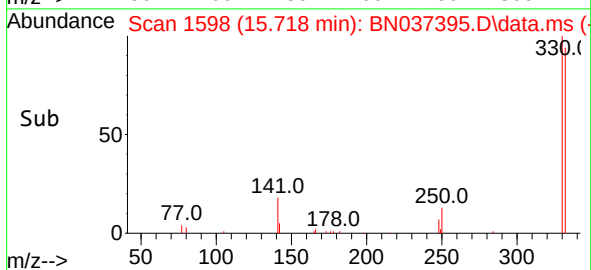
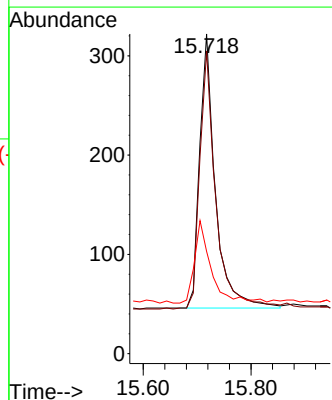
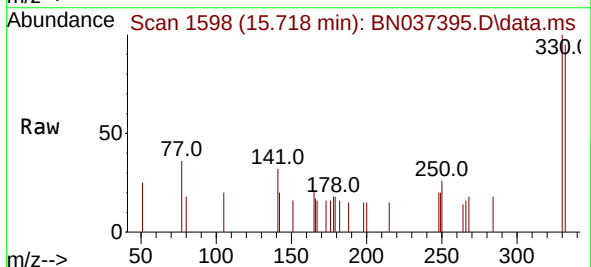
Instrument :
BNA_N
ClientSampleId :
EB02-20250616

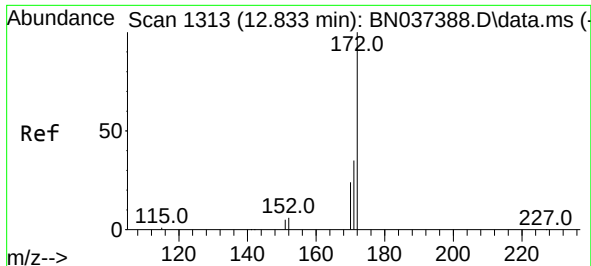
Tgt Ion:164 Resp: 2665
Ion Ratio Lower Upper
164 100
162 103.9 82.6 123.8
160 52.8 42.2 63.2



#14
2,4,6-Tribromophenol
Concen: 0.358 ng
RT: 15.718 min Scan# 1598
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

Tgt Ion:330 Resp: 560
Ion Ratio Lower Upper
330 100
332 97.3 77.8 116.8
141 31.6 24.0 36.0

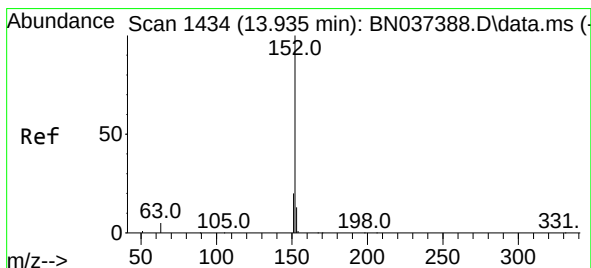
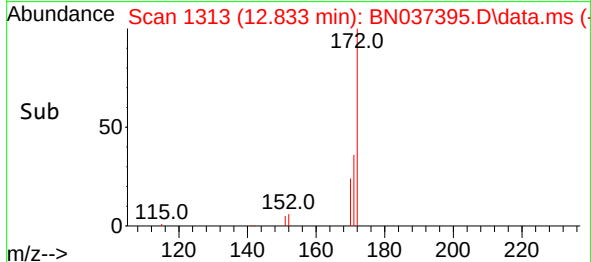
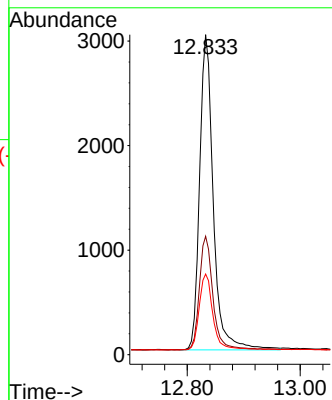
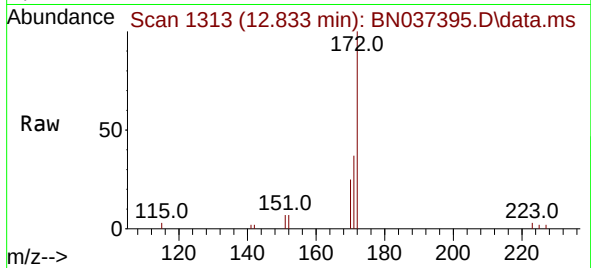




#15
2-Fluorobiphenyl
Concen: 0.442 ng
RT: 12.833 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

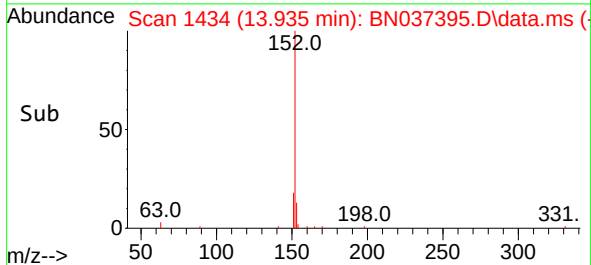
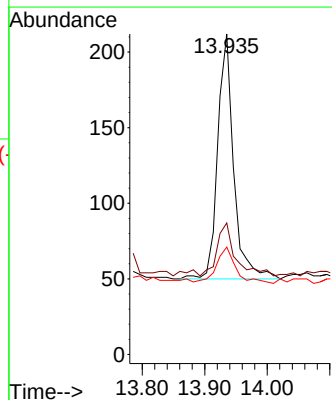
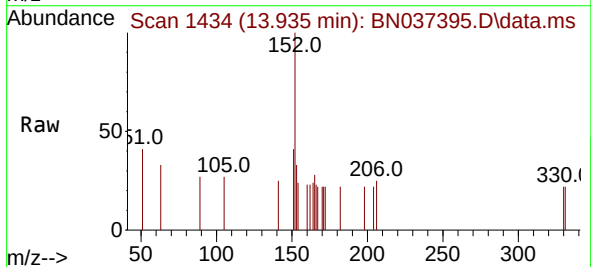
Instrument :
BNA_N
ClientSampleId :
EB02-20250616

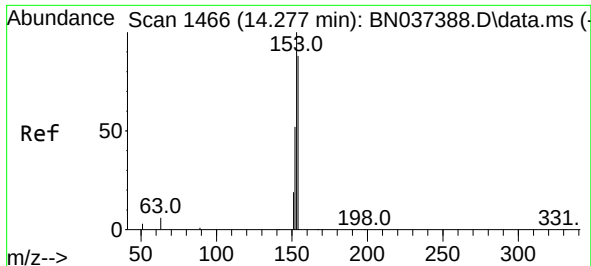
Tgt Ion:172	Resp:	5087
Ion Ratio	Lower	Upper
172	100	
171	37.0	28.8 43.2
170	25.2	20.3 30.5



#16
Acenaphthylene
Concen: 0.026 ng
RT: 13.935 min Scan# 1434
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

Tgt Ion:152	Resp:	288
Ion Ratio	Lower	Upper
152	100	
151	24.7	15.8 23.6#
153	18.1	10.3 15.5#

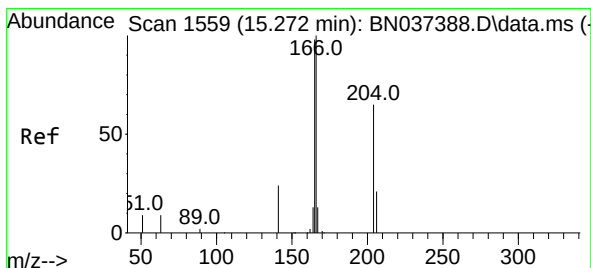
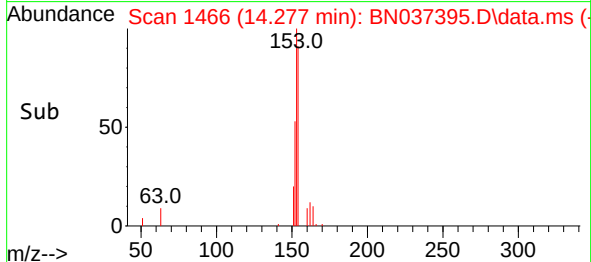
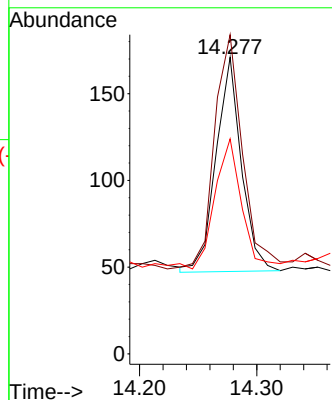
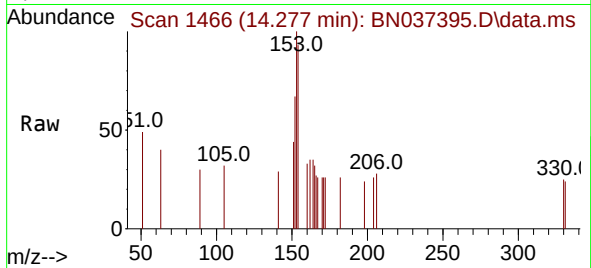




#17
Acenaphthene
Concen: 0.026 ng
RT: 14.277 min Scan# 1466
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

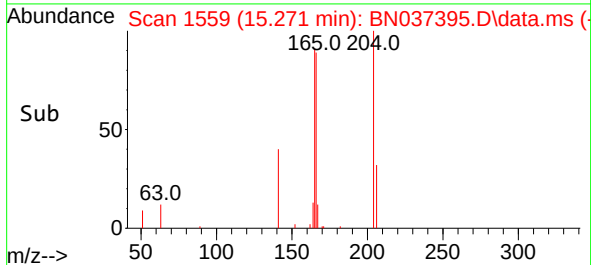
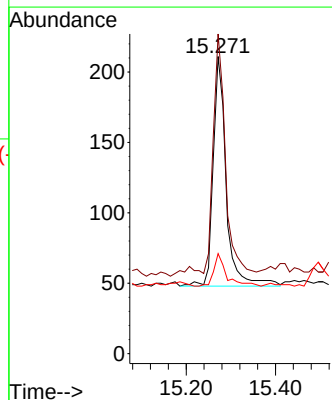
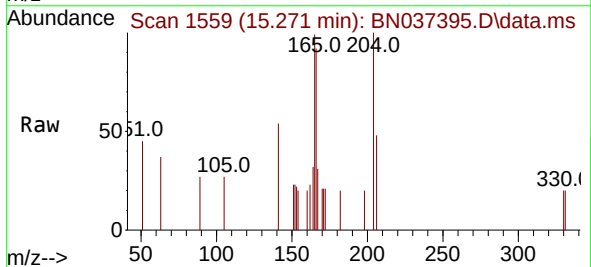
Instrument :
BNA_N
ClientSampleId :
EB02-20250616

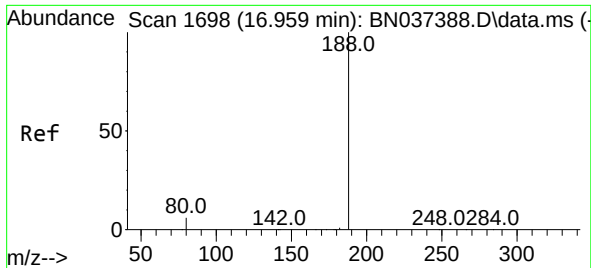
Tgt Ion:154 Resp: 185
Ion Ratio Lower Upper
154 100
153 122.2 94.6 141.8
152 63.8 50.2 75.2



#18
Fluorene
Concen: 0.032 ng
RT: 15.271 min Scan# 1559
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

Tgt Ion:166 Resp: 329
Ion Ratio Lower Upper
166 100
165 97.3 79.4 119.2
167 13.4 10.6 15.8

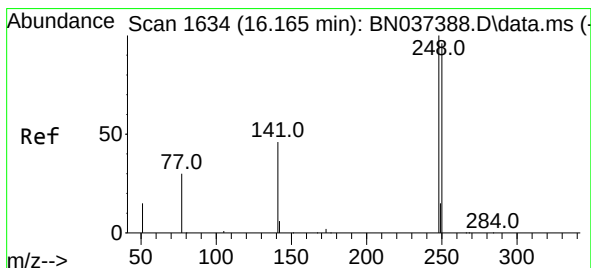
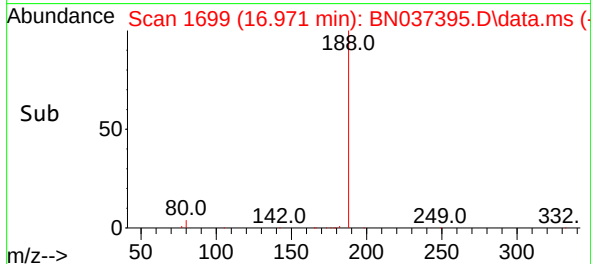
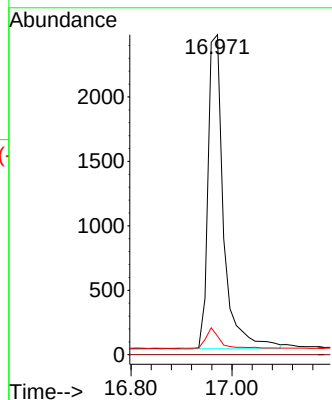
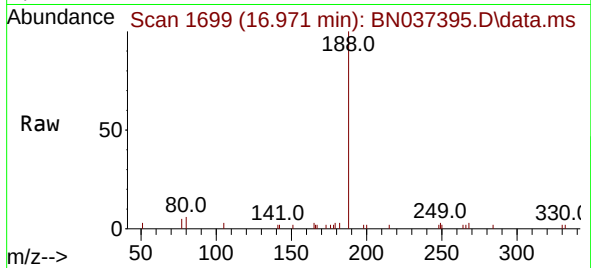




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.971 min Scan# 1699
Delta R.T. 0.012 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

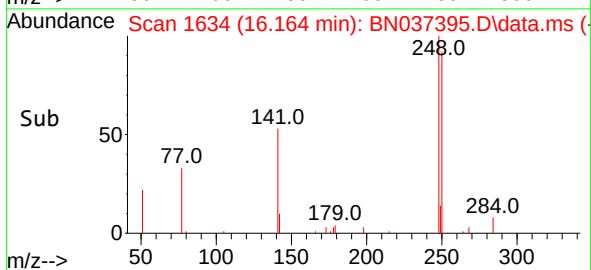
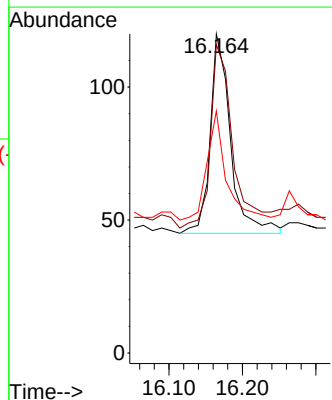
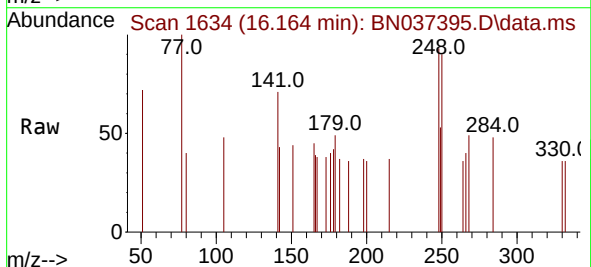
Instrument :
BNA_N
ClientSampleId :
EB02-20250616

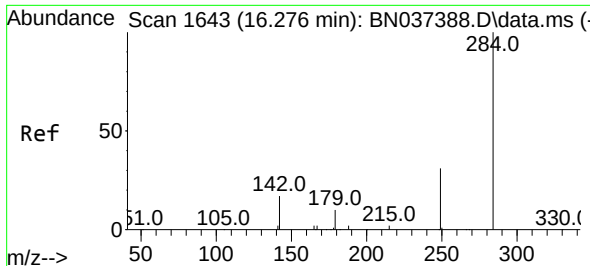
Tgt Ion:188 Resp: 5237
Ion Ratio Lower Upper
188 100
94 0.0 0.0 0.0
80 5.8 6.2 9.4#



#21
4-Bromophenyl-phenylether
Concen: 0.039 ng
RT: 16.164 min Scan# 1634
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

Tgt Ion:248 Resp: 145
Ion Ratio Lower Upper
248 100
250 96.7 77.0 115.4
141 75.8 38.7 58.1#

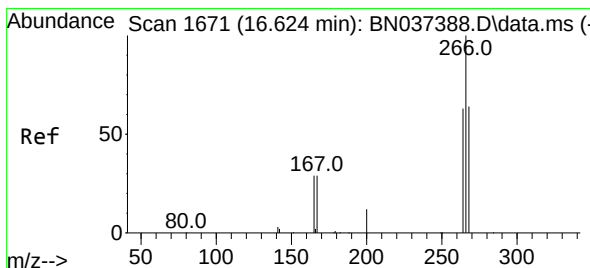
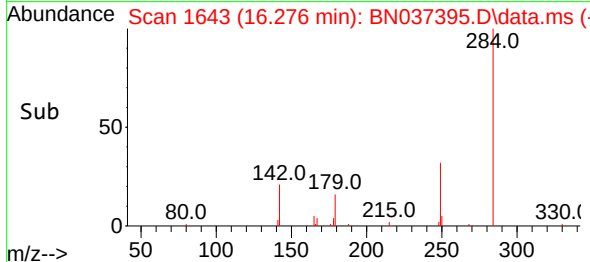
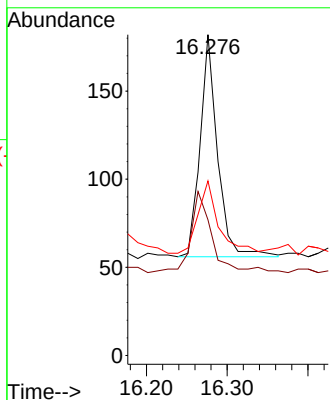
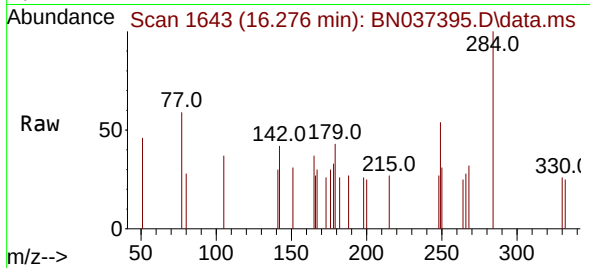




#22
Hexachlorobenzene
Concen: 0.048 ng
RT: 16.276 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

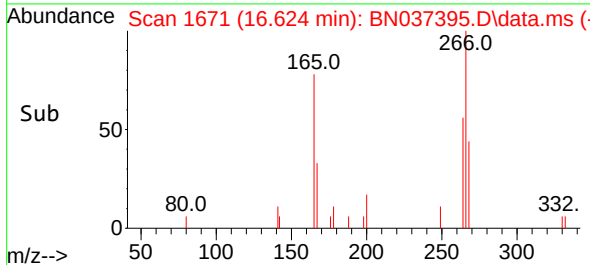
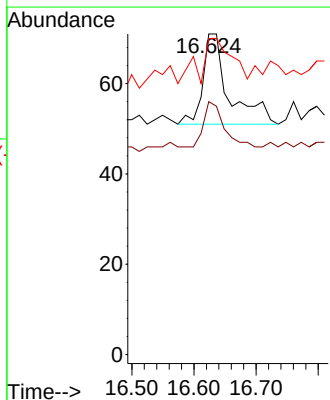
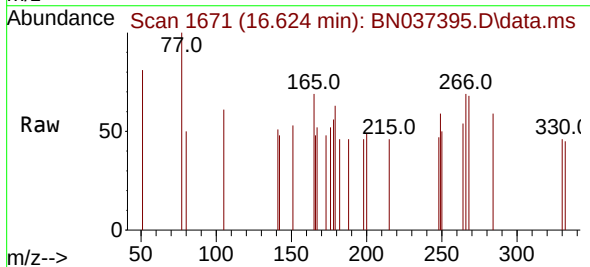
Instrument :
BNA_N
ClientSampleId :
EB02-20250616

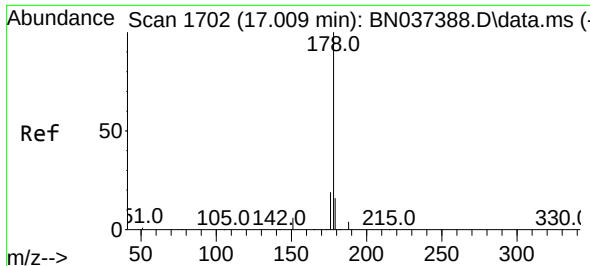
Tgt Ion:284 Resp: 189
Ion Ratio Lower Upper
284 100
142 44.4 27.2 40.8#
249 38.1 26.7 40.1



#24
Pentachlorophenol
Concen: 0.028 ng
RT: 16.624 min Scan# 1671
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

Tgt Ion:266 Resp: 59
Ion Ratio Lower Upper
266 100
264 44.1 49.2 73.8#
268 61.0 54.2 81.4

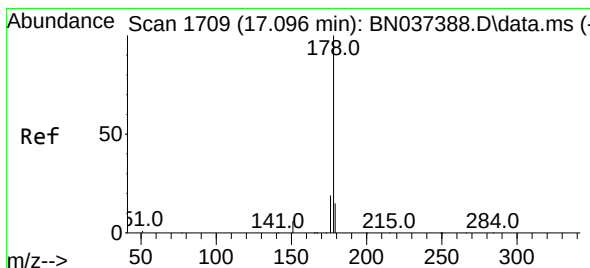
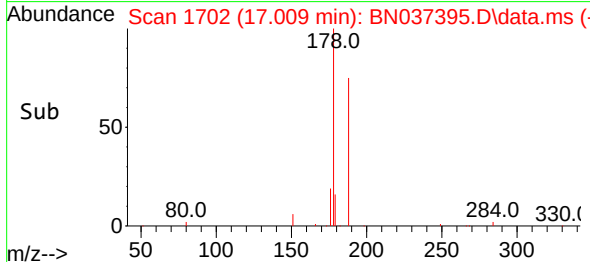
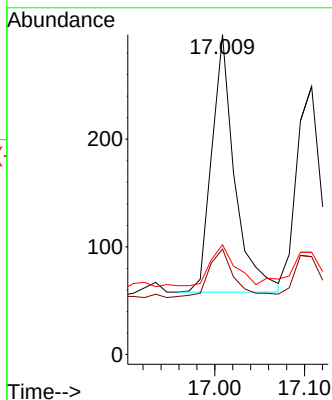
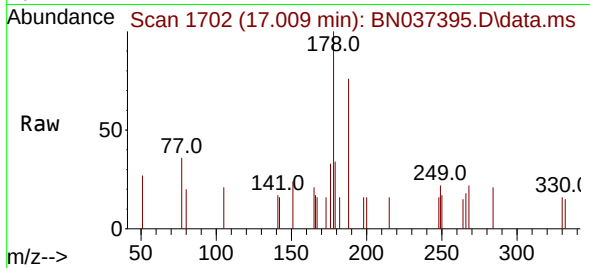




#25
 Phenanthrene
 Concen: 0.029 ng
 RT: 17.009 min Scan# 1702
 Delta R.T. -0.000 min
 Lab File: BN037395.D
 Acq: 26 Jun 2025 16:06

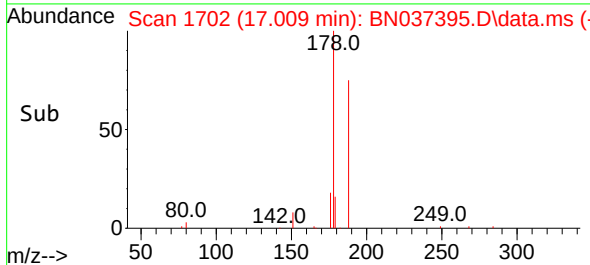
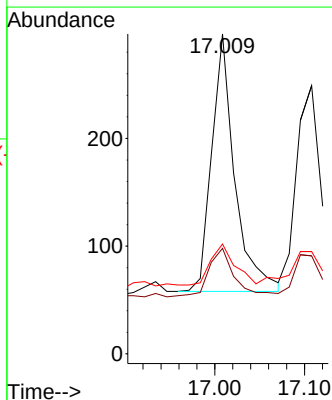
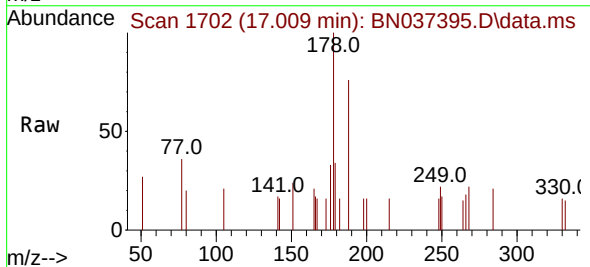
Instrument :
 BNA_N
 ClientSampleId :
 EB02-20250616

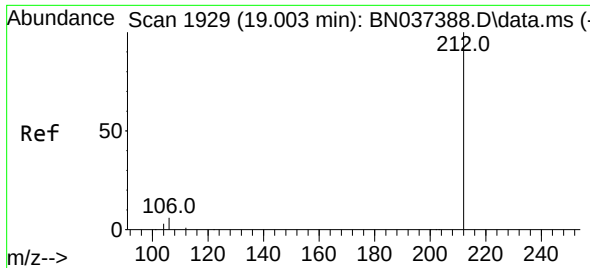
Tgt Ion:	178	Resp:	425
Ion Ratio	Lower	Upper	
178	100		
176	21.4	15.6	23.4
179	16.7	12.8	19.2



#26
 Anthracene
 Concen: 0.031 ng
 RT: 17.009 min Scan# 1702
 Delta R.T. -0.087 min
 Lab File: BN037395.D
 Acq: 26 Jun 2025 16:06

Tgt Ion:	178	Resp:	425
Ion Ratio	Lower	Upper	
178	100		
176	21.4	14.9	22.3
179	16.7	12.4	18.6

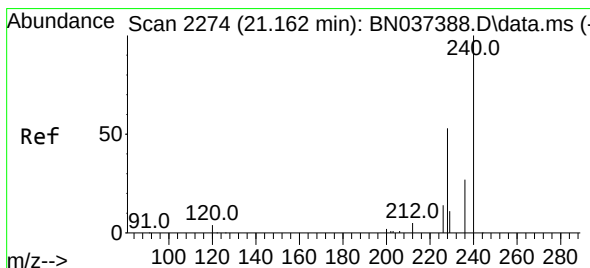
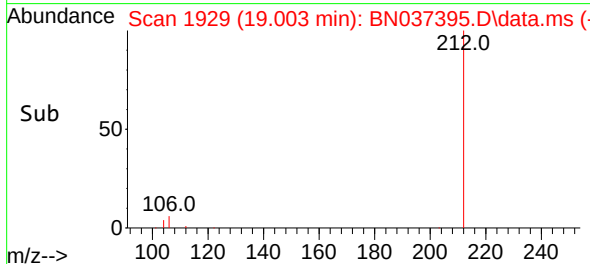
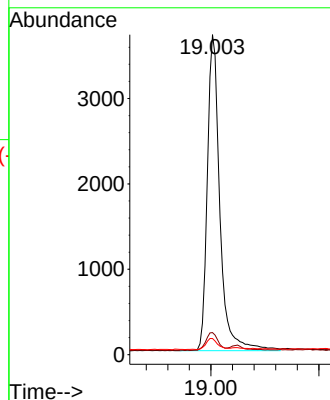
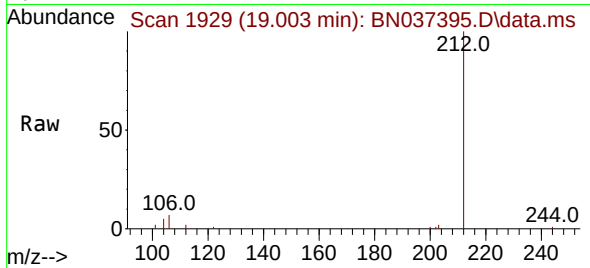




#27
Fluoranthene-d10
Concen: 0.397 ng
RT: 19.003 min Scan# 1929
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

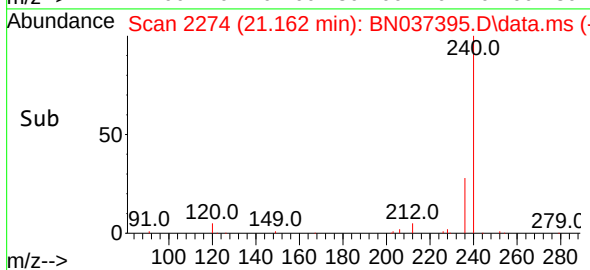
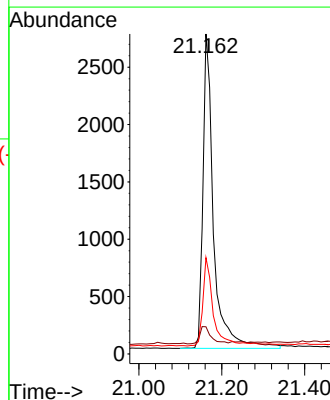
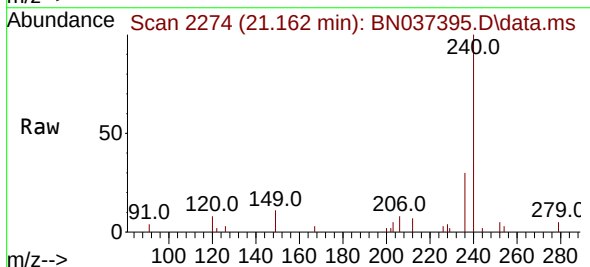
Instrument :
BNA_N
ClientSampleId :
EB02-20250616

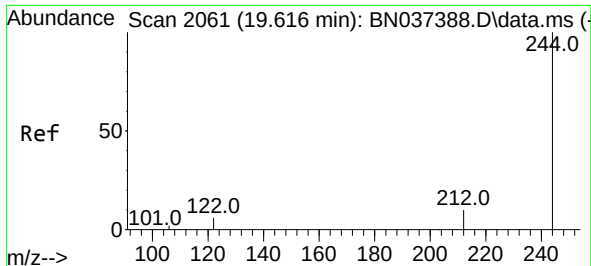
Tgt Ion:212	Resp:	5956
Ion Ratio	Lower	Upper
212	100	
106	5.5	4.5 6.7
104	3.3	2.7 4.1



#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.162 min Scan# 2274
Delta R.T. -0.000 min
Lab File: BN037395.D
Acq: 26 Jun 2025 16:06

Tgt Ion:240	Resp:	4862
Ion Ratio	Lower	Upper
240	100	
120	8.5	5.3 7.9#
236	30.1	22.7 34.1

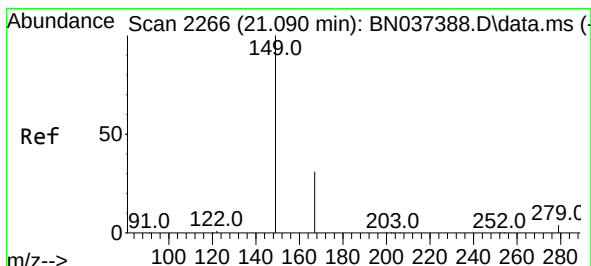
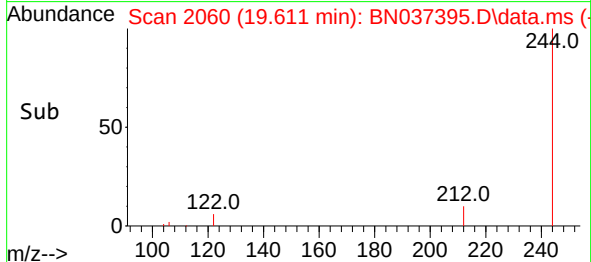
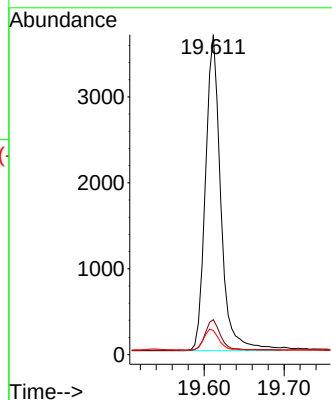
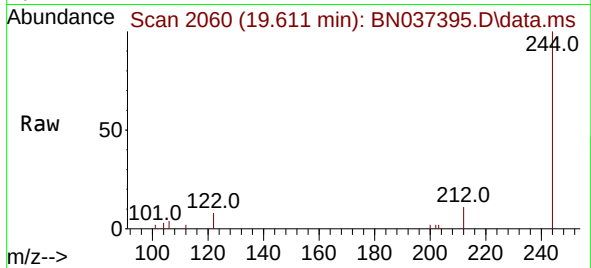




#31
 Terphenyl-d14
 Concen: 0.472 ng
 RT: 19.611 min Scan# 2061
 Delta R.T. -0.005 min
 Lab File: BN037395.D
 Acq: 26 Jun 2025 16:06

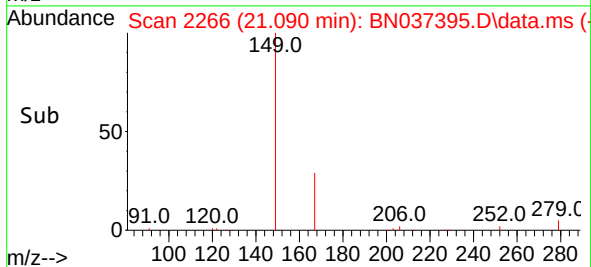
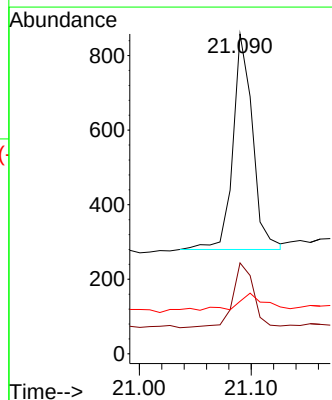
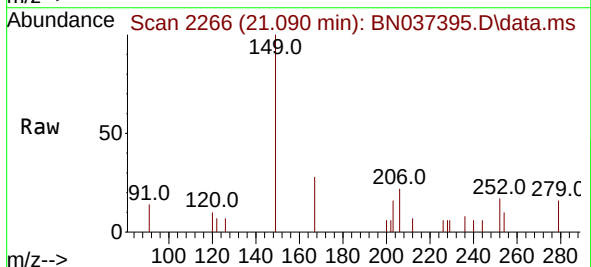
Instrument :
 BNA_N
 ClientSampleId :
 EB02-20250616

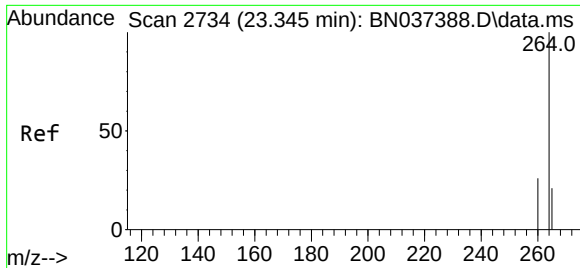
Tgt Ion:244 Resp: 4896
 Ion Ratio Lower Upper
 244 100
 212 10.9 9.1 13.7
 122 7.5 6.3 9.5



#34
 Bis(2-ethylhexyl)phthalate
 Concen: 0.117 ng
 RT: 21.090 min Scan# 2266
 Delta R.T. -0.000 min
 Lab File: BN037395.D
 Acq: 26 Jun 2025 16:06

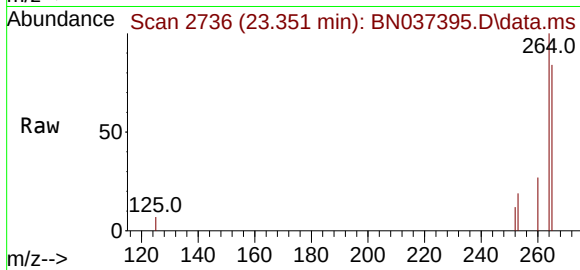
Tgt Ion:149 Resp: 706
 Ion Ratio Lower Upper
 149 100
 167 32.2 24.8 37.2
 279 10.8 5.0 7.6#





#35
 Perylene-d12
 Concen: 0.400 ng
 RT: 23.351 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: BN037395.D
 Acq: 26 Jun 2025 16:06

Instrument :
 BNA_N
 ClientSampleId :
 EB02-20250616



Tgt Ion: 264 Resp: 4950

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.4	32.0
265	83.6	56.2	84.4

