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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is 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

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LAB CHRONICLE

OrderID:	Q3756	**OrderDate:**	12/3/2025 9:25:00 AM
Client:	JACOBS Engineering Group, Inc.	**Project:**	Former Schlumberger STC PTC Site D3868221
Contact:	John Ynfante	**Location:**	--Select--,A11,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3756-01	**OW-04B-26.5-120225**	**Water**			**12/02/25**			**12/02/25**
			SVOC-SIMGroup1	8270-Modified		12/05/25	12/06/25	
Q3756-03	**BR-01-190-120225**	**Water**			**12/02/25**			**12/02/25**
			SVOC-SIMGroup1	8270-Modified		12/05/25	12/06/25	
Q3756-03DL	**BR-01-190-120225DL**	**Water**			**12/02/25**			**12/02/25**
			SVOC-SIMGroup1	8270-Modified		12/05/25	12/12/25	
Q3756-05	**MW-04-12-120225**	**Water**			**12/02/25**			**12/02/25**
			SVOC-SIMGroup1	8270-Modified		12/05/25	12/06/25	
Q3756-07	**MW-13B-47.5-120225**	**Water**			**12/02/25**			**12/02/25**
			SVOC-SIMGroup1	8270-Modified		12/05/25	12/06/25	
Q3756-09	**EB01-120225**	**Water**			**12/02/25**			**12/02/25**
			SVOC-SIMGroup1	8270-Modified		12/05/25	12/06/25	

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Hit Summary Sheet
SW-846

SDG No.: Q3756

Client: JACOBS Engineering Group, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**BR-01-190-120225**							
Q3756-03	BR-01-190-120225	WATER	1,4-Dioxane	6.100	E	0.07	0.21	ug/L
			Total Svoc :	**6.10**				
			Total Concentration:	**6.10**				
Client ID :	**BR-01-190-120225DL**							
Q3756-03DL	BR-01-190-120225DL	WATER	1,4-Dioxane	5.400	D	0.14	0.41	ug/L
			Total Svoc :	**5.40**				
			Total Concentration:	**5.40**				

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q3756

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB170838BL	PB170838BL	2-Methylnaphthalene-d10	0.4	0.31	78		30 (47)	150 (106)
		Fluoranthene-d10	0.4	0.40	99		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.36	91		30 (56)	130 (116)
		2-Fluorobiphenyl	0.4	0.38	95		30 (50)	130 (126)
		Terphenyl-d14	0.4	0.35	87		30 (54)	130 (175)
PB170838BS	PB170838BS	2-Methylnaphthalene-d10	0.4	0.40	100		30 (47)	150 (106)
		Fluoranthene-d10	0.4	0.42	104		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.42	106		30 (56)	130 (116)
		2-Fluorobiphenyl	0.4	0.47	118		30 (50)	130 (126)
		Terphenyl-d14	0.4	0.36	91		30 (54)	130 (175)
PB170838BSD	PB170838BSD	2-Methylnaphthalene-d10	0.4	0.34	84		30 (47)	150 (106)
		Fluoranthene-d10	0.4	0.39	97		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.37	91		30 (56)	130 (116)
		2-Fluorobiphenyl	0.4	0.40	101		30 (50)	130 (126)
		Terphenyl-d14	0.4	0.34	84		30 (54)	130 (175)
Q3756-01	OW-04B-26.5-120225	2-Methylnaphthalene-d10	0.4	0.27	67		30 (47)	150 (106)
		Fluoranthene-d10	0.4	0.40	99		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.30	76		30 (56)	130 (116)
		2-Fluorobiphenyl	0.4	0.35	87		30 (50)	130 (126)
		Terphenyl-d14	0.4	0.44	109		30 (54)	130 (175)
Q3756-03	BR-01-190-120225	2-Methylnaphthalene-d10	0.4	0.28	71		30 (47)	150 (106)
		Fluoranthene-d10	0.4	0.43	106		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.33	81		30 (56)	130 (116)
		2-Fluorobiphenyl	0.4	0.34	86		30 (50)	130 (126)
		Terphenyl-d14	0.4	0.42	104		30 (54)	130 (175)
Q3756-03DL	BR-01-190-120225DL	2-Methylnaphthalene-d10	0.4	0.26	66		30 (47)	150 (106)
		Fluoranthene-d10	0.4	0.36	89		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.30	76		30 (56)	130 (116)
		2-Fluorobiphenyl	0.4	0.30	74		30 (50)	130 (126)
		Terphenyl-d14	0.4	0.44	109		30 (54)	130 (175)
Q3756-05	MW-04-12-120225	2-Methylnaphthalene-d10	0.4	0.29	74		30 (47)	150 (106)
		Fluoranthene-d10	0.4	0.37	94		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.31	77		30 (56)	130 (116)
		2-Fluorobiphenyl	0.4	0.34	84		30 (50)	130 (126)
		Terphenyl-d14	0.4	0.52	129		30 (54)	130 (175)
Q3756-07	MW-13B-47.5-120225	2-Methylnaphthalene-d10	0.4	0.29	74		30 (47)	150 (106)
		Fluoranthene-d10	0.4	0.34	84		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.31	77		30 (56)	130 (116)
		2-Fluorobiphenyl	0.4	0.33	82		30 (50)	130 (126)
		Terphenyl-d14	0.4	0.46	115		30 (54)	130 (175)
Q3756-09	EB01-120225	2-Methylnaphthalene-d10	0.4	0.29	73		30 (47)	150 (106)
		Fluoranthene-d10	0.4	0.36	90		30 (54)	150 (157)
		Nitrobenzene-d5	0.4	0.33	81		30 (56)	130 (116)
		2-Fluorobiphenyl	0.4	0.32	81		30 (50)	130 (126)
		Terphenyl-d14	0.4	0.45	113		30 (54)	130 (175)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3756 **Analytical Method:** 8270-Modified

Client: JACOBS Engineering Group, Inc. **DataFile:** BN038289.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB170838BS	1,4-Dioxane	0.4	0.33	ug/L	83				20 (65)	160 (116)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3756 **Analytical Method:** 8270-Modified

Client: JACOBS Engineering Group, Inc. **DataFile:** BN038290.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB170838BSD	1,4-Dioxane	0.4	0.31	ug/L	78	6			20 (65)	160 (116)	20 (27)

( ) = LABORATORY INHOUSE LIMIT

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB170838BL

Lab Name: Alliance | Contract: JACO05

Lab Code: ACE | SDG NO.: Q3756

Lab File ID: BN038288.D | Lab Sample ID: PB170838BL

Instrument ID: BNA_N | Date Extracted: 12/05/2025

Matrix: (soil/water) Water | Date Analyzed: 12/06/2025

Level: (low/med) LOW | Time Analyzed: 00:19

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB170838BS	PB170838BS	BN038289.D	12/06/2025
PB170838BSD	PB170838BSD	BN038290.D	12/06/2025
OW-04B-26.5-120225	Q3756-01	BN038291.D	12/06/2025
BR-01-190-120225	Q3756-03	BN038292.D	12/06/2025
MW-04-12-120225	Q3756-05	BN038293.D	12/06/2025
MW-13B-47.5-120225	Q3756-07	BN038294.D	12/06/2025
EB01-120225	Q3756-09	BN038295.D	12/06/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance — Contract: JACO05

Lab Code: ACE — SDG NO.: Q3756

Lab File ID: BN038211.D — DFTPP Injection Date: 11/26/2025

Instrument ID: BNA_N — DFTPP Injection Time: 19:55

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	35.7
70	Less than 2.0% of mass 69	0.2 (0.5) 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	6.6
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	14.5
442	Greater than 50% of mass 198	90.9
443	15.0 - 24.0% of mass 442	18.4 (20.3) 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
SSTDICC0.1	SSTDICC0.1	BN038212.D	11/26/2025	20:35
SSTDICC0.2	SSTDICC0.2	BN038213.D	11/26/2025	21:12
SSTDICCC0.4	SSTDICCC0.4	BN038214.D	11/26/2025	21:48
SSTDICC0.8	SSTDICC0.8	BN038215.D	11/26/2025	22:25
SSTDICC1.6	SSTDICC1.6	BN038216.D	11/26/2025	23:01
SSTDICC3.2	SSTDICC3.2	BN038217.D	11/26/2025	23:37
SSTDICC5.0	SSTDICC5.0	BN038218.D	11/27/2025	00:13

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: JACO05

Lab Code: ACE SDG NO.: Q3756

Lab File ID: BN038286.D DFTPP Injection Date: 12/05/2025

Instrument ID: BNA_N DFTPP Injection Time: 22:23

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.8 (2) 1
69	Mass 69 relative abundance	41.1
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	13.2
442	Greater than 50% of mass 198	86.9
443	15.0 - 24.0% of mass 442	15.2 (17.5) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN038287.D	12/05/2025	23:42
PB170838BL	PB170838BL	BN038288.D	12/06/2025	00:19
PB170838BS	PB170838BS	BN038289.D	12/06/2025	00:55
PB170838BSD	PB170838BSD	BN038290.D	12/06/2025	01:32
OW-04B-26.5-120225	Q3756-01	BN038291.D	12/06/2025	02:08
BR-01-190-120225	Q3756-03	BN038292.D	12/06/2025	02:45
MW-04-12-120225	Q3756-05	BN038293.D	12/06/2025	03:21
MW-13B-47.5-120225	Q3756-07	BN038294.D	12/06/2025	03:58
EB01-120225	Q3756-09	BN038295.D	12/06/2025	04:35

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance — Contract: JACO05

Lab Code: ACE — SDG NO.: Q3756

Lab File ID: BN038297.D — DFTPP Injection Date: 12/10/2025

Instrument ID: BNA_N — DFTPP Injection Time: 09:12

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	37.2
70	Less than 2.0% of mass 69	0.2 (0.5) 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	6.6
365	Greater than 1% of mass 198	3.6
441	Present, but less than mass 443	14.8
442	Greater than 50% of mass 198	92.6
443	15.0 - 24.0% of mass 442	16.9 (18.2) 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	BN038298.D	12/10/2025	09:52
SSTDICC0.2	SSTDICC0.2	BN038299.D	12/10/2025	10:28
SSTDICCC0.4	SSTDICCC0.4	BN038300.D	12/10/2025	11:05
SSTDICC0.8	SSTDICC0.8	BN038301.D	12/10/2025	11:41
SSTDICC1.6	SSTDICC1.6	BN038302.D	12/10/2025	12:17
SSTDICC3.2	SSTDICC3.2	BN038303.D	12/10/2025	12:53
SSTDICC5.0	SSTDICC5.0	BN038304.D	12/10/2025	13:30

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance — Contract: JACO05

Lab Code: ACE — SDG NO.: Q3756

Lab File ID: BN038329.D — DFTPP Injection Date: 12/11/2025

Instrument ID: BNA_N — DFTPP Injection Time: 23:20

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.2 (0.5) 1
197	Less than 2.0% of mass 198	0.1
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	3.7
441	Present, but less than mass 443	15.3
442	Greater than 50% of mass 198	95.1
443	15.0 - 24.0% of mass 442	18.9 (19.9) 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	BN038330.D	12/11/2025	23:59
BR-01-190-120225DL	Q3756-03DL	BN038332.D	12/12/2025	01:13

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3756

Client ID : SSTDCCC0.4 Date Analyzed: 12/05/2025

Lab File ID: BN038287.D Time Analyzed: 23:42

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	6906	7.761	20829	10.56	10600	14.42
	UPPER LIMIT	13812	8.261	41658	11.062	21200	14.92
	LOWER LIMIT	3453	7.261	10414.5	10.062	5300	13.92
	EPA SAMPLE NO.						
01	PB170838BL	7136	7.76	19157	10.56	8410	14.43
02	PB170838BS	7065	7.76	18764	10.56	7890	14.42
03	PB170838BSD	6710	7.76	17808	10.56	7711	14.42
04	OW-04B-26.5-120225	6484	7.76	18611	10.56	9161	14.42
05	BR-01-190-120225	6614	7.76	18511	10.56	9412	14.42
06	MW-04-12-120225	6896	7.76	20829	10.56	11092	14.42
07	MW-13B-47.5-120225	7020	7.76	21534	10.56	11522	14.42
08	EB01-120225	6963	7.76	20031	10.56	11010	14.42

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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3756

Client ID: SSTDCCC0.4 Date Analyzed: 12/05/2025

Lab File ID: BN038287.D Time Analyzed: 23:42

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	14873	17.173	9751	21.367	10410	23.668
	UPPER LIMIT	29746	17.673	19502	21.867	20820	24.168
	LOWER LIMIT	7436.5	16.673	4875.5	20.867	5205	23.168
	EPA SAMPLE NO.						
01	PB170838BL	11693	17.19	9196	21.38	9718	23.68
02	PB170838BS	11230	17.17	9380	21.37	9467	23.67
03	PB170838BSD	11030	17.17	9170	21.37	9318	23.67
04	OW-04B-26.5-120225	13341	17.17	9131	21.37	9062	23.67
05	BR-01-190-120225	15199	17.17	11302	21.37	11529	23.67
06	MW-04-12-120225	16516	17.17	9936	21.37	9902	23.67
07	MW-13B-47.5-120225	17319	17.17	10242	21.37	10445	23.67
08	EB01-120225	16237	17.17	10562	21.37	11226	23.67

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.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3756

Client ID : SSTDCCC0.4 Date Analyzed: 12/11/2025

Lab File ID: BN038330.D Time Analyzed: 23:59

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	5325	7.724	14404	10.52	7509	14.39
	UPPER LIMIT	10650	8.224	28808	11.019	15018	14.887
	LOWER LIMIT	2662.5	7.224	7202	10.019	3754.5	13.887
	EPA SAMPLE NO.						
01	BR-01-190-120225DL	5762	7.72	15461	10.53	8101	14.39

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.

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

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3756

Client ID: SSTDCCC0.4 Date Analyzed: 12/11/2025

Lab File ID: BN038330.D Time Analyzed: 23:59

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	13836	17.148	10979	21.339	11587	23.63
	UPPER LIMIT	27672	17.648	21958	21.839	23174	24.13
	LOWER LIMIT	6918	16.648	5489.5	20.839	5793.5	23.13
	EPA SAMPLE NO.						
01	BR-01-190-120225DL	15232	17.15	11067	21.34	11044	23.63

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

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	12/02/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	12/02/25
Client Sample ID:	OW-04B-26.5-120225	SDG No.:	Q3756
Lab Sample ID:	Q3756-01	Matrix:	Water
Analytical Method:	SW8270ESIM Level: LOW	% Solid:	0
Sample Wt/Vol:	960 mL Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	3510C Prep Date: 12/05/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
123-91-1	1,4-Dioxane	0.070	U	1	0.070	0.21	ug/L	12/06/25 02:08	PB170838
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.27			30 (47) - 150 (106)	67%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.40			30 (54) - 150 (157)	99%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.30			30 (56) - 130 (116)	76%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.35			30 (50) - 130 (126)	87%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.44			30 (54) - 130 (175)	109%	SPK: 0.4		
INTERNAL STANDARDS		**Area Count**							
3855-82-1	1,4-Dichlorobenzene-d4	6480							
1146-65-2	Naphthalene-d8	18600							
15067-26-2	Acenaphthene-d10	9160							
1517-22-2	Phenanthrene-d10	13300							
1719-03-5	Chrysene-d12	9130							
1520-96-3	Perylene-d12	9060							

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\BN120625\
Data File : BN038291.D
Acq On : 06 Dec 2025 02:08
Operator : RC/JU
Sample : Q3756-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
OW-04B-26.5-120225

Quant Time: Dec 06 03:23:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration

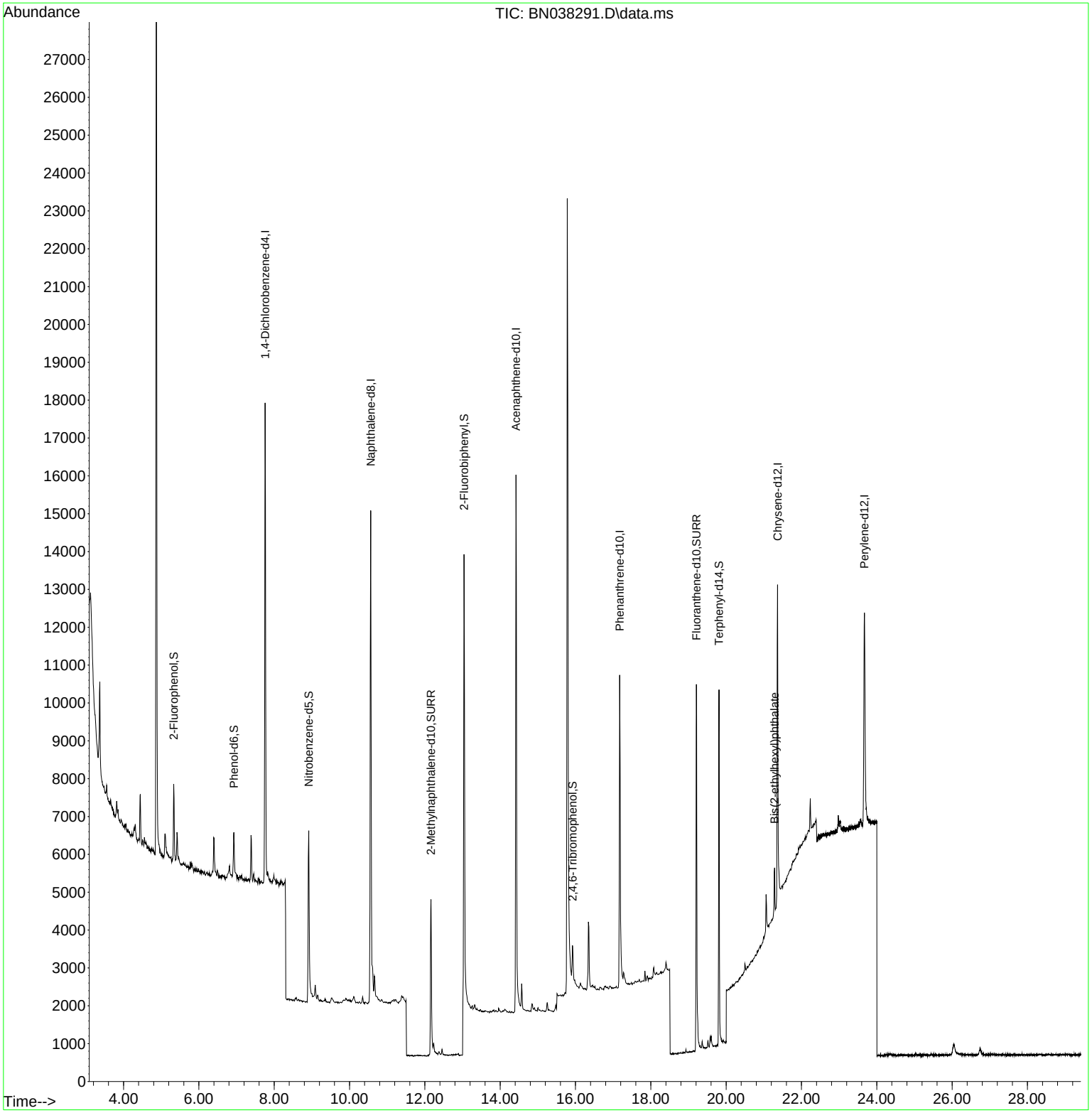
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.760	152	6484	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	18611	0.400	ng	#-0.01
13) Acenaphthene-d10	14.420	164	9161	0.400	ng	-0.01
19) Phenanthrene-d10	17.173	188	13341	0.400	ng	#-0.01
29) Chrysene-d12	21.366	240	9131	0.400	ng	0.00
35) Perylene-d12	23.671	264	9062	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	1740	0.115	ng	0.00
5) Phenol-d6	6.930	99	1342	0.071	ng	0.00
8) Nitrobenzene-d5	8.918	82	4530	0.304	ng	0.00
11) 2-Methylnaphthalene-d10	12.161	152	7106	0.269	ng	0.00
14) 2,4,6-Tribromophenol	15.920	330	693	0.240	ng	-0.01
15) 2-Fluorobiphenyl	13.040	172	12317	0.348	ng	-0.01
27) Fluoranthene-d10	19.211	212	11494	0.397	ng	0.00
31) Terphenyl-d14	19.810	244	9222	0.437	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.286	149	1403	0.083	ng	# 96

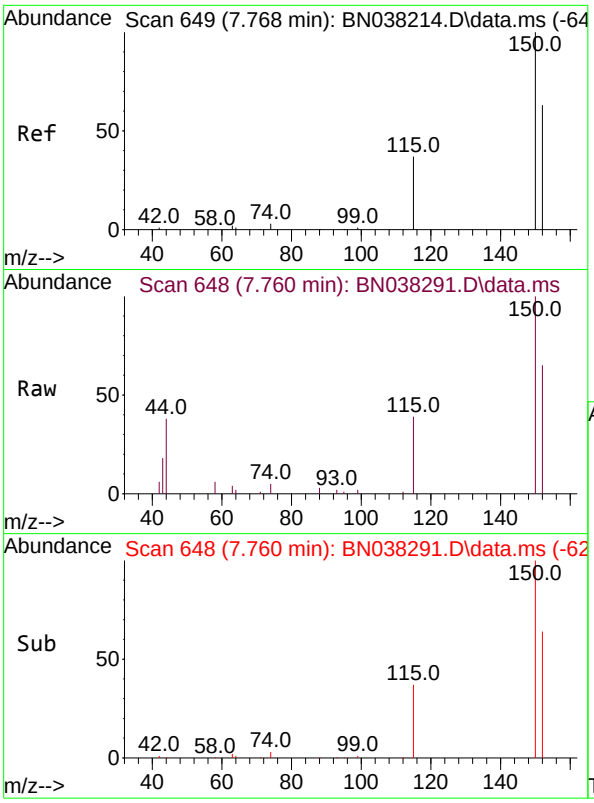
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
Data File : BN038291.D
Acq On : 06 Dec 2025 02:08
Operator : RC/JU
Sample : Q3756-01
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
OW-04B-26.5-120225

Quant Time: Dec 06 03:23:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration



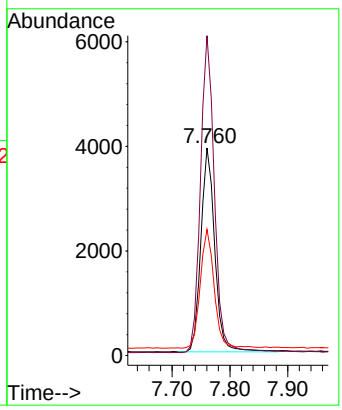


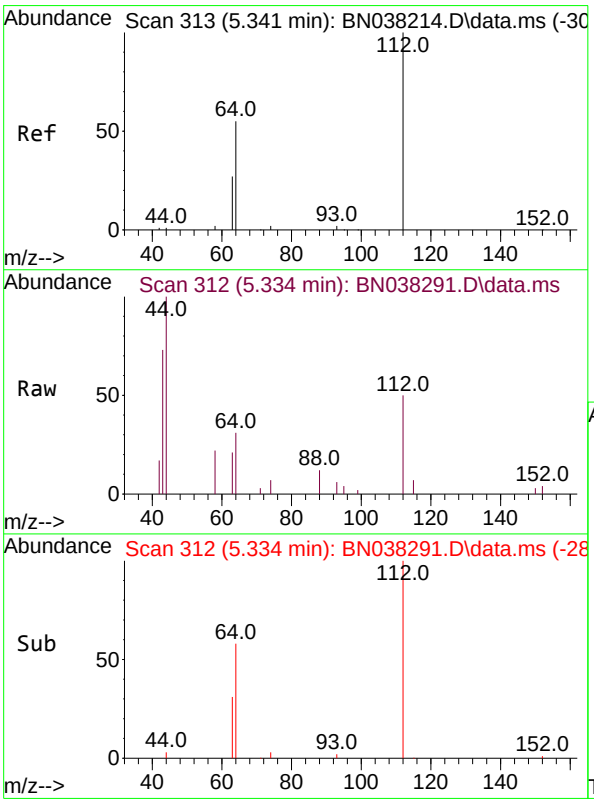
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.760 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

Instrument :
BNA_N
ClientSampleId :
OW-04B-26.5-120225

Tgt Ion:152 Resp: 6484

Ion	Ratio	Lower	Upper
152	100		
150	154.1	125.3	187.9
115	60.8	49.0	73.4

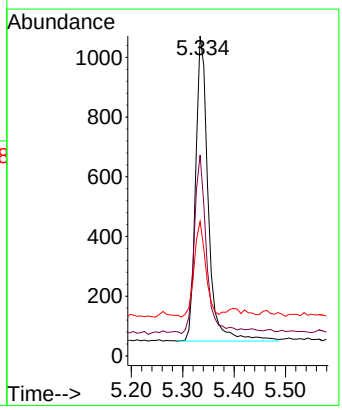


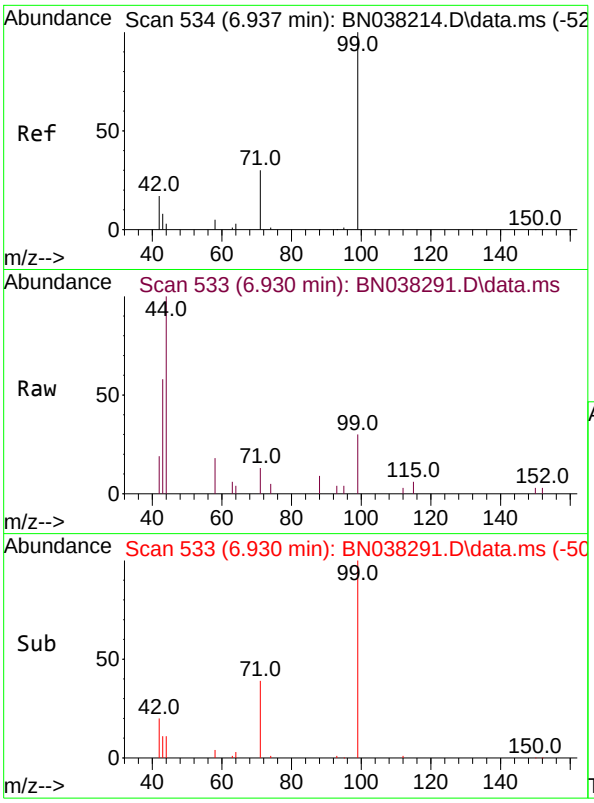


#4
2-Fluorophenol
Concen: 0.115 ng
RT: 5.334 min Scan# 312
Delta R.T. -0.007 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

Tgt Ion:112 Resp: 1740

Ion	Ratio	Lower	Upper
112	100		
64	57.2	45.0	67.4
63	28.8	23.2	34.8



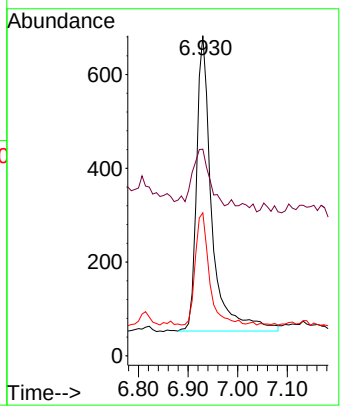


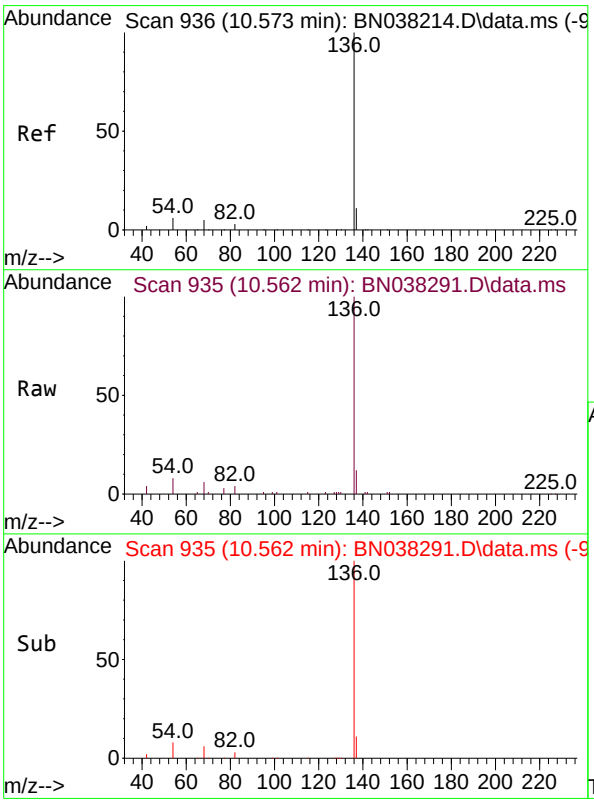
#5
Phenol-d6
Concen: 0.071 ng
RT: 6.930 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

Instrument :
BNA_N
ClientSampleId :
OW-04B-26.5-120225

Tgt Ion: 99 Resp: 1342

Ion	Ratio	Lower	Upper
99	100		
42	21.9	17.0	25.6
71	34.9	25.4	38.2

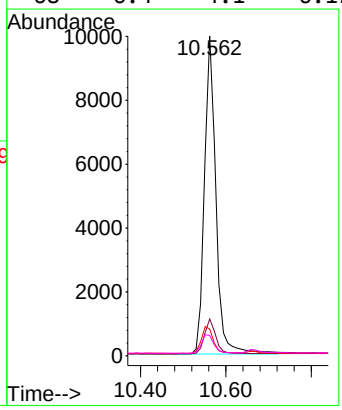


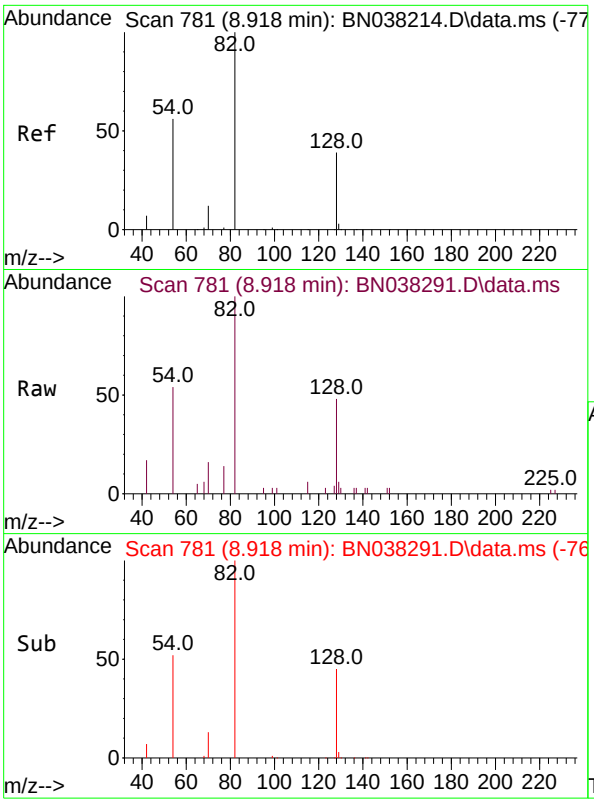


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 935
Delta R.T. -0.011 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

Tgt Ion:136 Resp: 18611

Ion	Ratio	Lower	Upper
136	100		
137	11.5	8.9	13.3
54	8.4	5.4	8.0#
68	6.4	4.1	6.1#



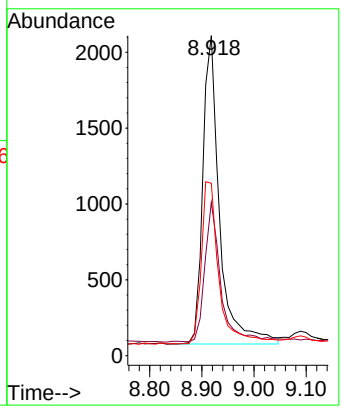


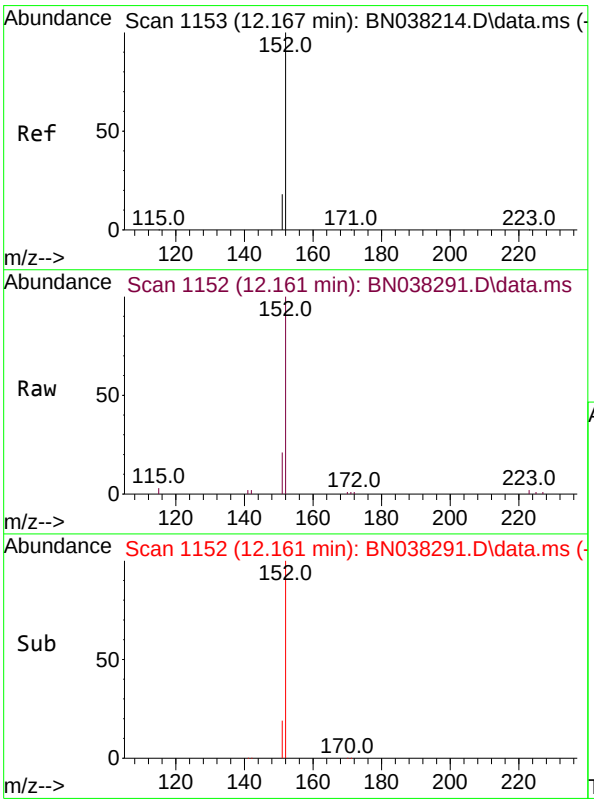
#8
Nitrobenzene-d5
Concen: 0.304 ng
RT: 8.918 min Scan# 78
Delta R.T. 0.000 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

Instrument :
BNA_N
ClientSampleId :
OW-04B-26.5-120225

Tgt Ion: 82 Resp: 4530

Ion	Ratio	Lower	Upper
82	100		
128	47.9	32.6	48.8
54	53.9	45.4	68.0

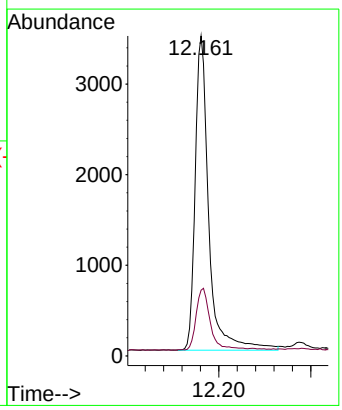


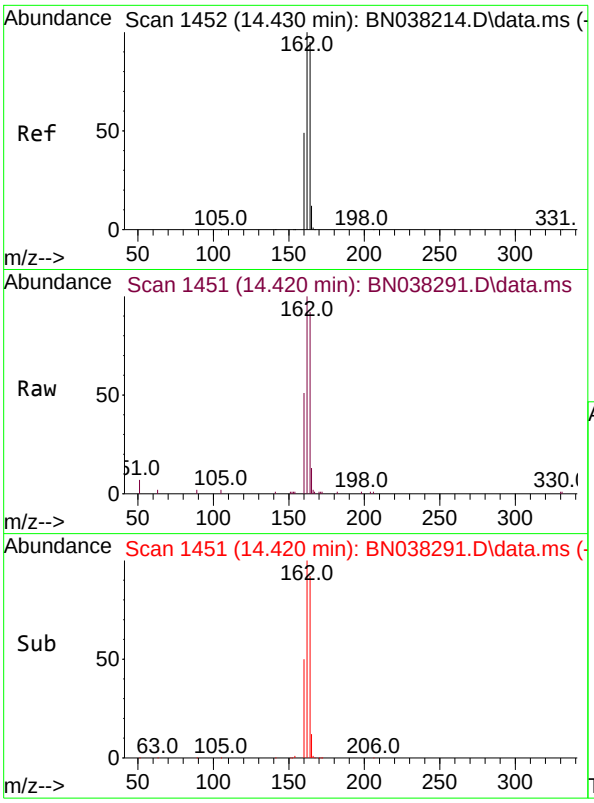


#11
2-Methylnaphthalene-d10
Concen: 0.269 ng
RT: 12.161 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

Tgt Ion:152 Resp: 7106

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.7	25.1



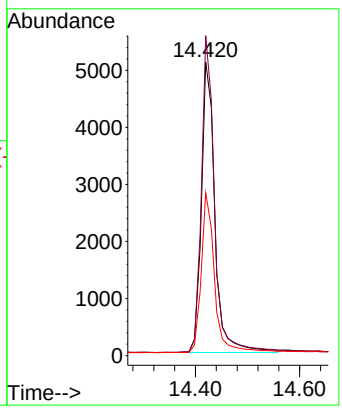


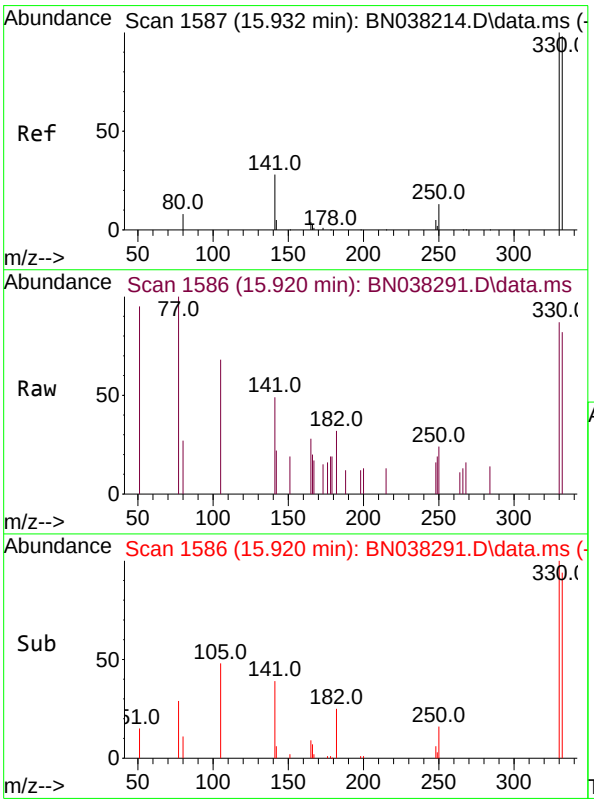
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

Instrument :
BNA_N
ClientSampleId :
OW-04B-26.5-120225

Tgt Ion:164 Resp: 9161

Ion	Ratio	Lower	Upper
164	100		
162	109.0	83.8	125.8
160	55.5	41.6	62.4

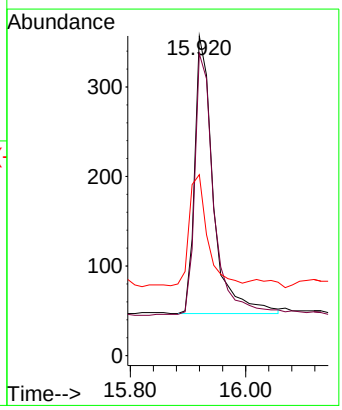


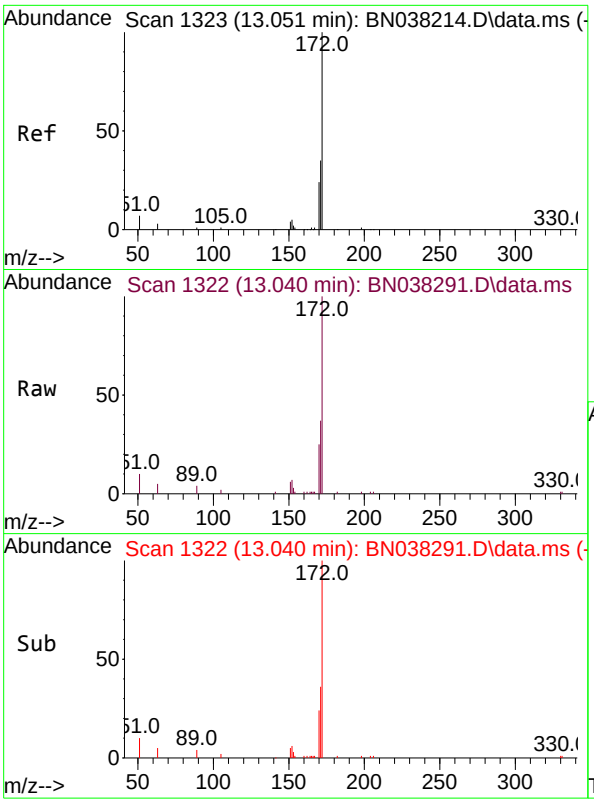


#14
2,4,6-Tribromophenol
Concen: 0.240 ng
RT: 15.920 min Scan# 1586
Delta R.T. -0.012 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

Tgt Ion:330 Resp: 693

Ion	Ratio	Lower	Upper
330	100		
332	98.0	77.8	116.6
141	40.8	33.0	49.4



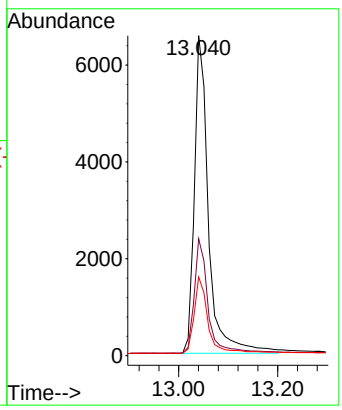


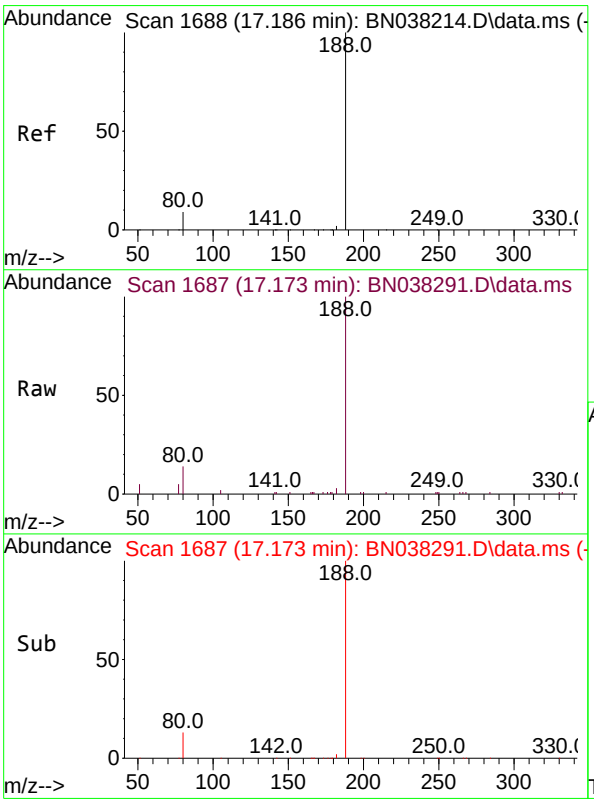
#15
2-Fluorobiphenyl
Concen: 0.348 ng
RT: 13.040 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

Instrument :
BNA_N
ClientSampleId :
OW-04B-26.5-120225

Tgt Ion:172 Resp: 12317

Ion	Ratio	Lower	Upper
172	100		
171	36.5	28.1	42.1
170	24.6	19.1	28.7

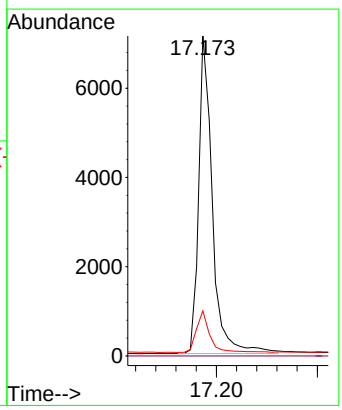


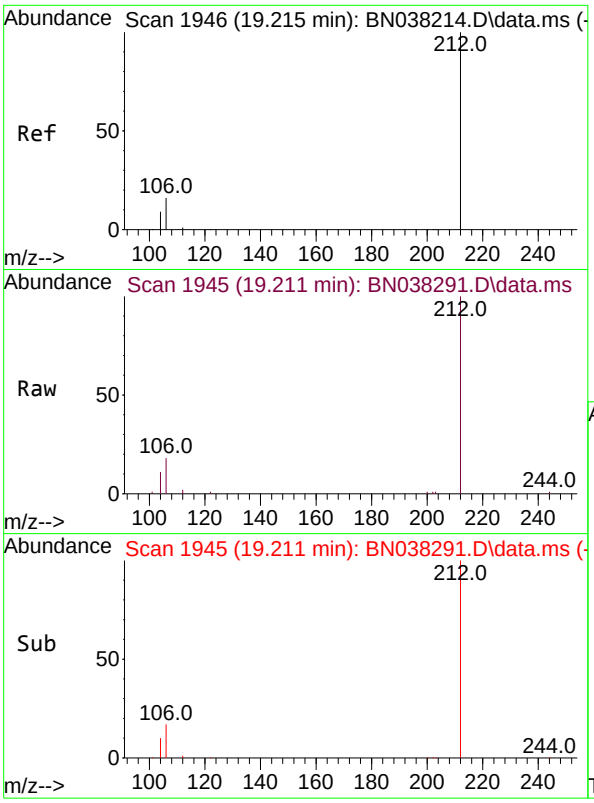


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.173 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

Tgt Ion:188 Resp: 13341

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.1	7.7	11.5#



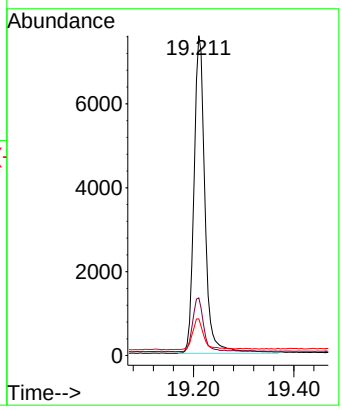


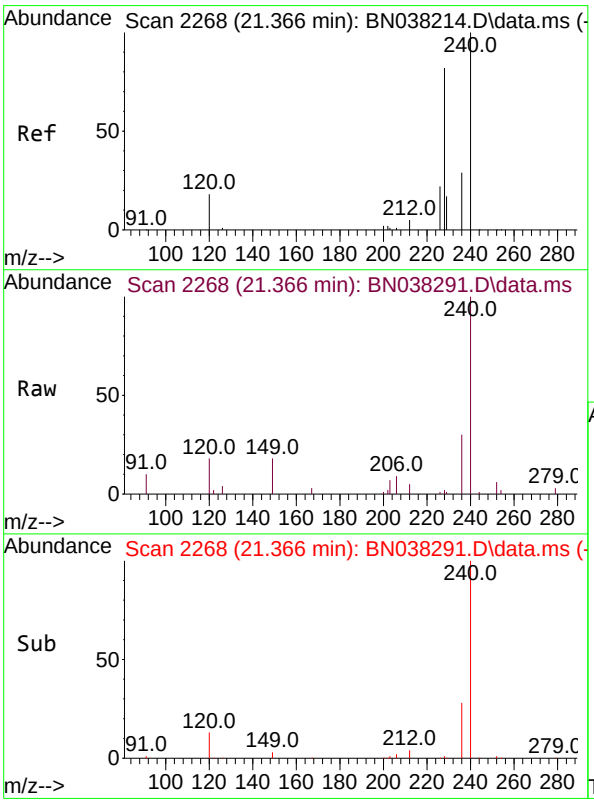
#27
Fluoranthene-d10
Concen: 0.397 ng
RT: 19.211 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

Instrument :
BNA_N
ClientSampleId :
OW-04B-26.5-120225

Tgt Ion:212 Resp: 11494

Ion	Ratio	Lower	Upper
212	100		
106	17.0	12.7	19.1
104	10.1	7.3	10.9

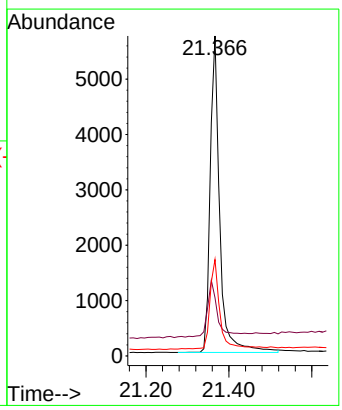


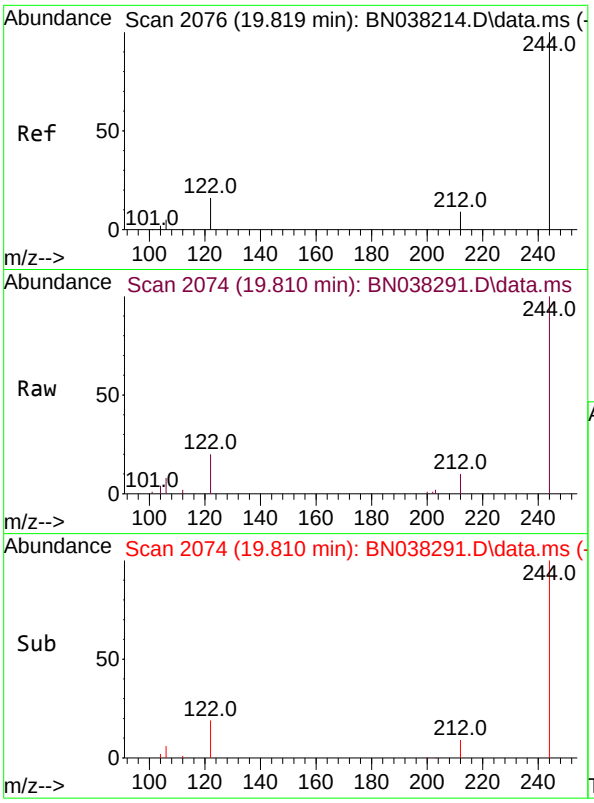


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.366 min Scan# 2268
Delta R.T. -0.000 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

Tgt Ion:240 Resp: 9131

Ion	Ratio	Lower	Upper
240	100		
120	18.2	18.1	27.1
236	30.1	24.2	36.4



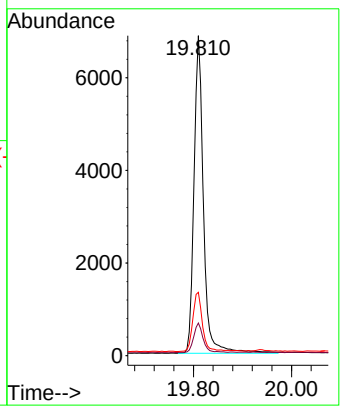


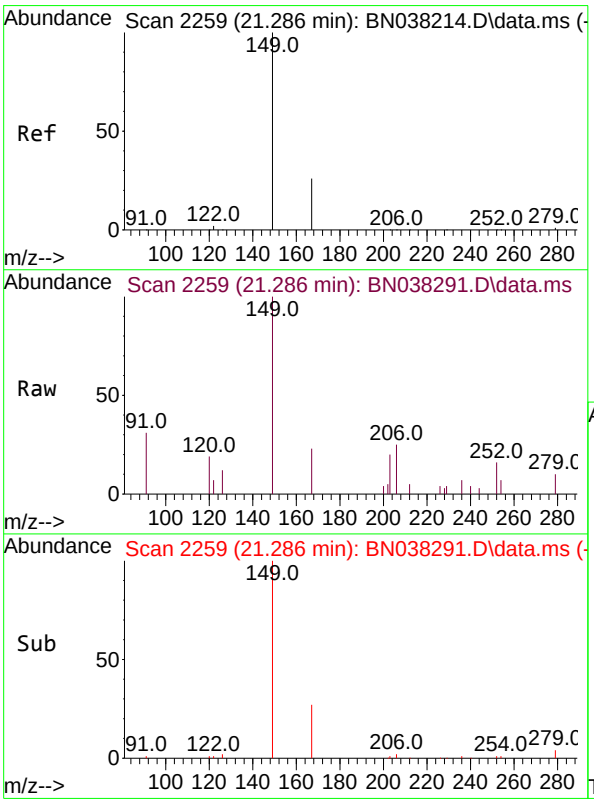
#31
Terphenyl-d14
Concen: 0.437 ng
RT: 19.810 min Scan# 20
Delta R.T. -0.009 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

Instrument :
BNA_N
ClientSampleId :
OW-04B-26.5-120225

Tgt Ion:244 Resp: 9222

Ion	Ratio	Lower	Upper
244	100		
212	10.2	7.7	11.5
122	19.8	13.6	20.4

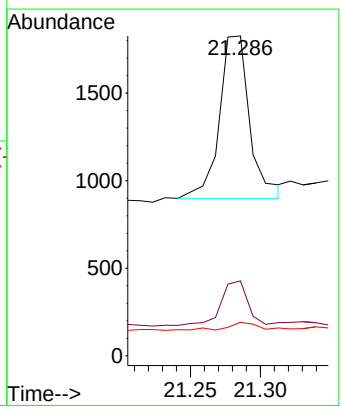


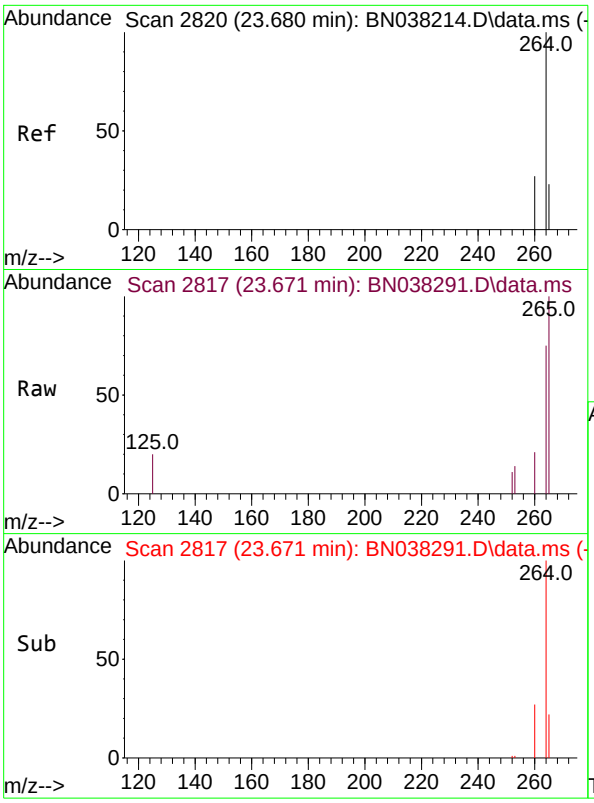


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.083 ng
RT: 21.286 min Scan# 2259
Delta R.T. -0.000 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

Tgt Ion:149 Resp: 1403

Ion	Ratio	Lower	Upper
149	100		
167	24.3	20.7	31.1
279	5.5	2.5	3.7#



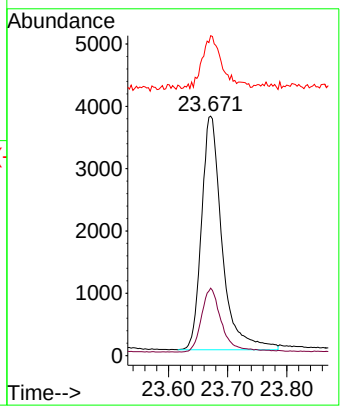


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.671 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN038291.D
Acq: 06 Dec 2025 02:08

Instrument :
BNA_N
ClientSampleId :
OW-04B-26.5-120225

Tgt Ion:264 Resp: 9062

Ion	Ratio	Lower	Upper
264	100		
260	28.2	21.7	32.5
265	133.6	98.0	147.0



Raw Data: **BN038292.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	12/02/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	12/02/25
Client Sample ID:	BR-01-190-120225	SDG No.:	Q3756
Lab Sample ID:	Q3756-03	Matrix:	Water
Analytical Method:	SW8270ESIM Level: LOW	% Solid:	0
Sample Wt/Vol:	970 mL Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	3510C Prep Date: 12/05/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
123-91-1	1,4-Dioxane	6.10	E	1	0.070	0.21	ug/L	12/06/25 02:45	PB170838
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.28			30 (47) - 150 (106)	71%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.43			30 (54) - 150 (157)	106%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.33			30 (56) - 130 (116)	81%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.34			30 (50) - 130 (126)	86%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.42			30 (54) - 130 (175)	104%	SPK: 0.4		
INTERNAL STANDARDS		**Area Count**							
3855-82-1	1,4-Dichlorobenzene-d4	6610							
1146-65-2	Naphthalene-d8	18500							
15067-26-2	Acenaphthene-d10	9410							
1517-22-2	Phenanthrene-d10	15200							
1719-03-5	Chrysene-d12	11300							
1520-96-3	Perylene-d12	11500							

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\BN120625\
Data File : BN038292.D
Acq On : 06 Dec 2025 02:45
Operator : RC/JU
Sample : Q3756-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225

Quant Time: Dec 06 03:23:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration

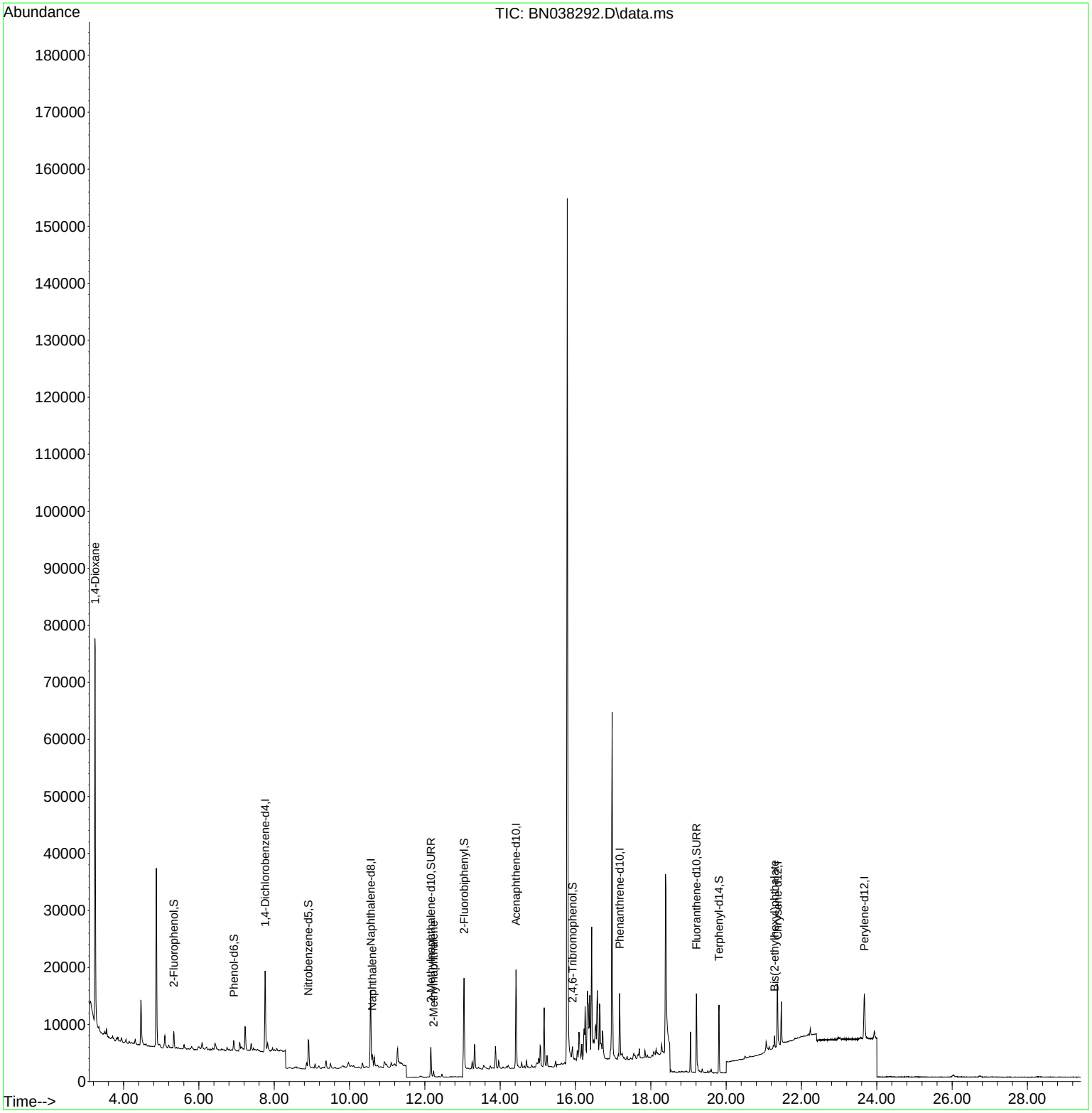
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.760	152	6614	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	18511	0.400	ng	-0.01
13) Acenaphthene-d10	14.420	164	9412	0.400	ng	-0.01
19) Phenanthrene-d10	17.173	188	15199	0.400	ng	#-0.01
29) Chrysene-d12	21.366	240	11302	0.400	ng	# 0.00
35) Perylene-d12	23.668	264	11529	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	2324	0.150	ng	0.00
5) Phenol-d6	6.930	99	1715	0.089	ng	0.00
8) Nitrobenzene-d5	8.907	82	4814	0.325	ng	-0.01
11) 2-Methylnaphthalene-d10	12.161	152	7493	0.285	ng	0.00
14) 2,4,6-Tribromophenol	15.920	330	1370	0.463	ng	-0.01
15) 2-Fluorobiphenyl	13.040	172	12474	0.343	ng	-0.01
27) Fluoranthene-d10	19.211	212	14055	0.426	ng	0.00
31) Terphenyl-d14	19.810	244	10834	0.415	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.246	88	41238	5.919	ng	98
9) Naphthalene	10.605	128	2979	0.058	ng	# 91
12) 2-Methylnaphthalene	12.232	142	719	0.021	ng	# 85
34) Bis(2-ethylhexyl)phtha...	21.286	149	2038	0.097	ng	# 98

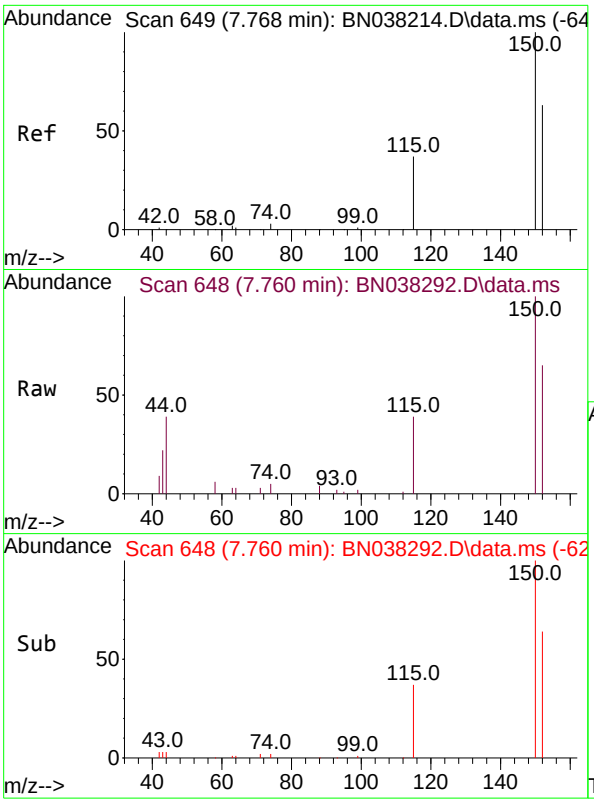
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
Data File : BN038292.D
Acq On : 06 Dec 2025 02:45
Operator : RC/JU
Sample : Q3756-03
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225

Quant Time: Dec 06 03:23:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration



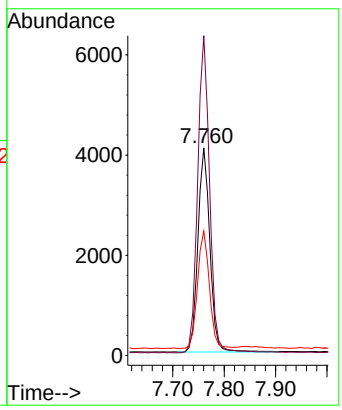


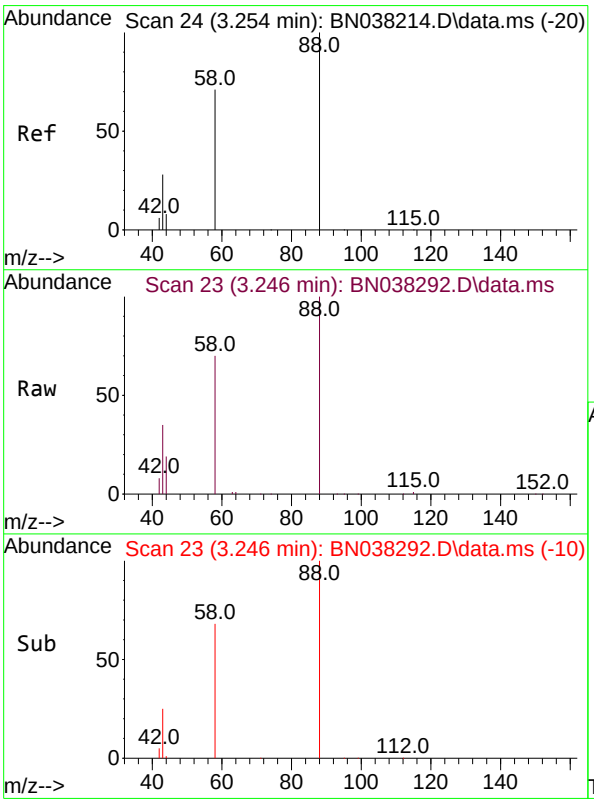
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.760 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225

Tgt Ion:152 Resp: 6614

Ion	Ratio	Lower	Upper
152	100		
150	154.0	125.3	187.9
115	60.0	49.0	73.4

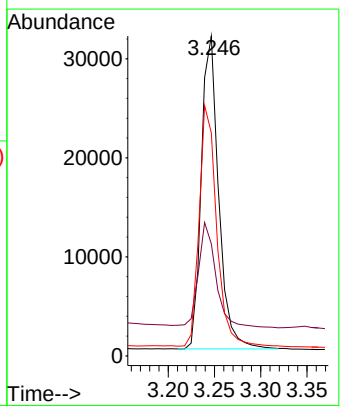


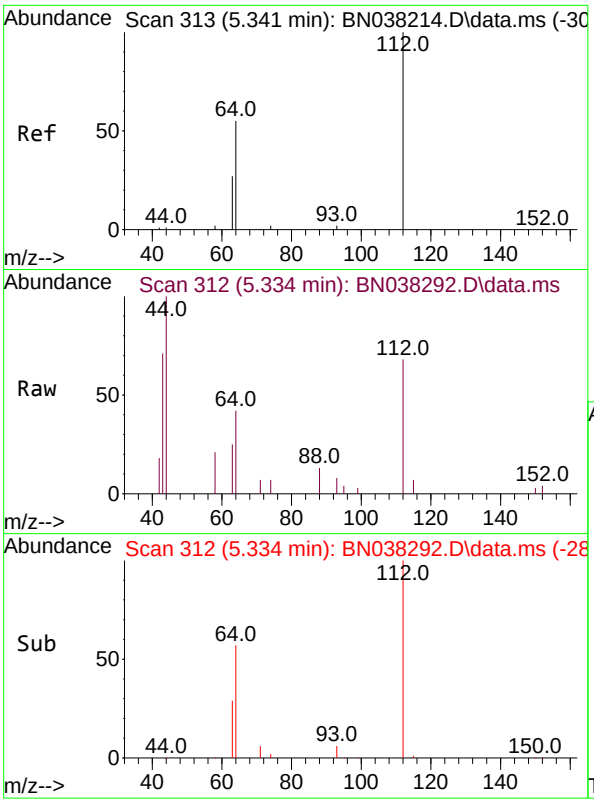


#2
1,4-Dioxane
Concen: 5.919 ng
RT: 3.246 min Scan# 23
Delta R.T. -0.007 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Tgt Ion: 88 Resp: 41238

Ion	Ratio	Lower	Upper
88	100		
43	34.4	24.8	37.2
58	77.0	61.1	91.7



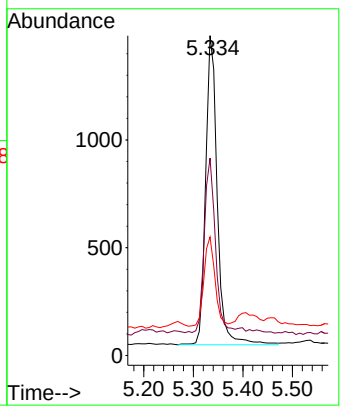


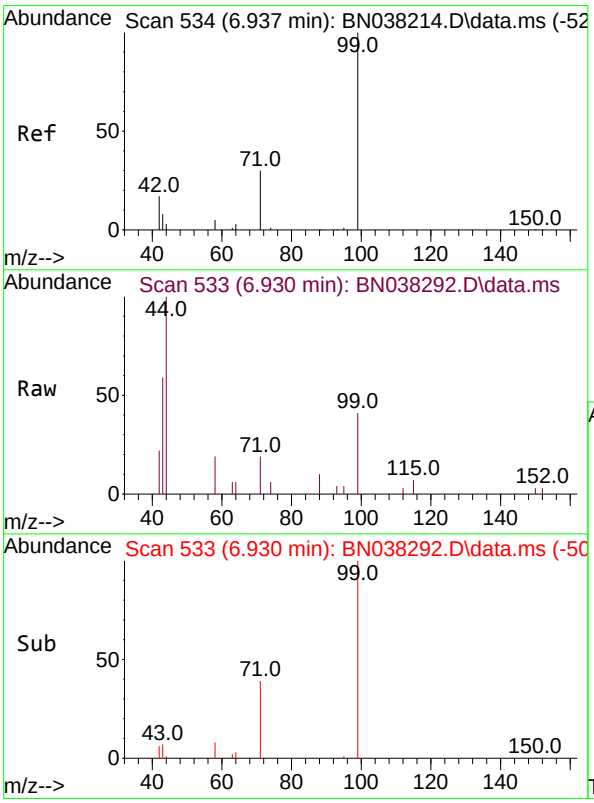
#4
2-Fluorophenol
Concen: 0.150 ng
RT: 5.334 min Scan# 31
Delta R.T. -0.007 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225

Tgt Ion:112 Resp: 2324

Ion	Ratio	Lower	Upper
112	100		
64	56.5	45.0	67.4
63	27.5	23.2	34.8

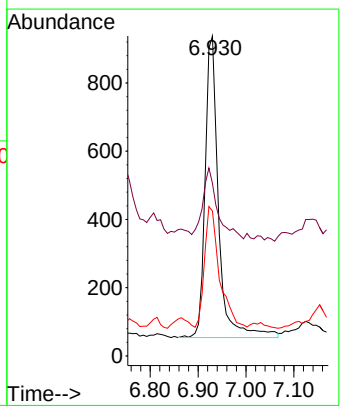


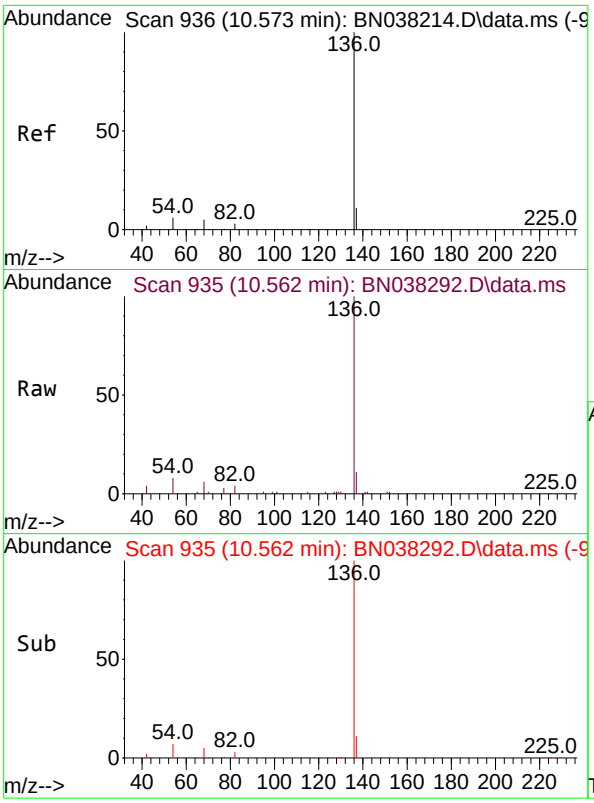


#5
Phenol-d6
Concen: 0.089 ng
RT: 6.930 min Scan# 533
Delta R.T. -0.007 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Tgt Ion: 99 Resp: 1715

Ion	Ratio	Lower	Upper
99	100		
42	25.8	17.0	25.6#
71	44.8	25.4	38.2#



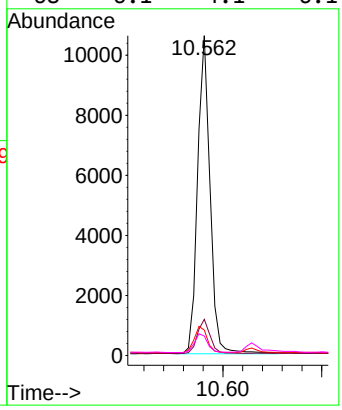


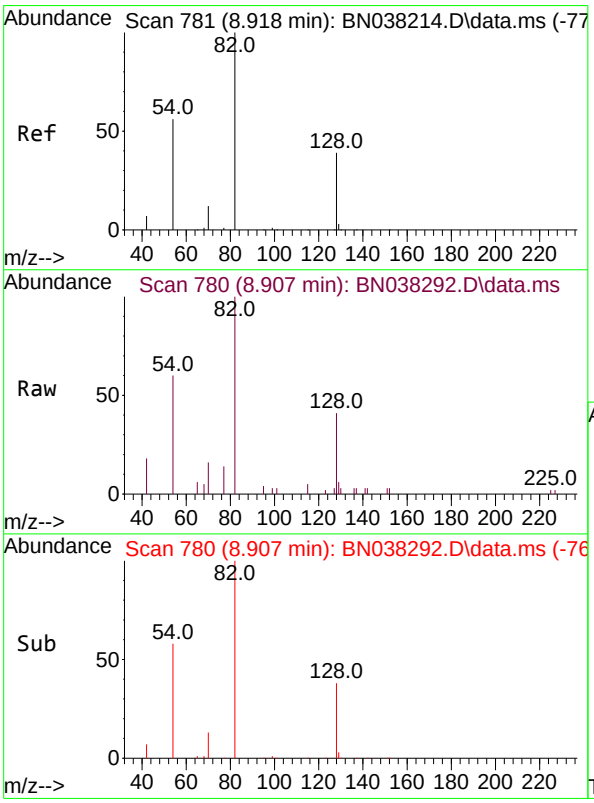
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225

Tgt Ion:136 Resp: 18511

Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.9	13.3
54	8.0	5.4	8.0
68	6.1	4.1	6.1

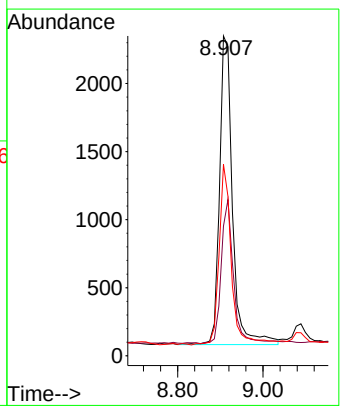


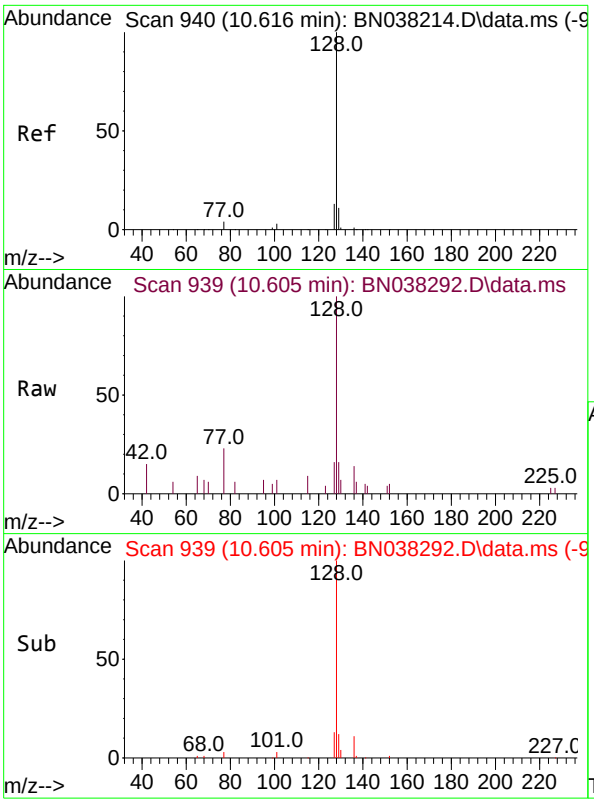


#8
Nitrobenzene-d5
Concen: 0.325 ng
RT: 8.907 min Scan# 780
Delta R.T. -0.011 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Tgt Ion: 82 Resp: 4814

Ion	Ratio	Lower	Upper
82	100		
128	40.6	32.6	48.8
54	59.8	45.4	68.0



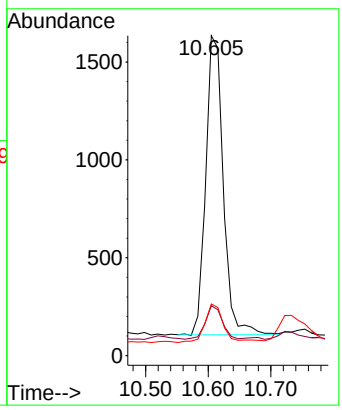


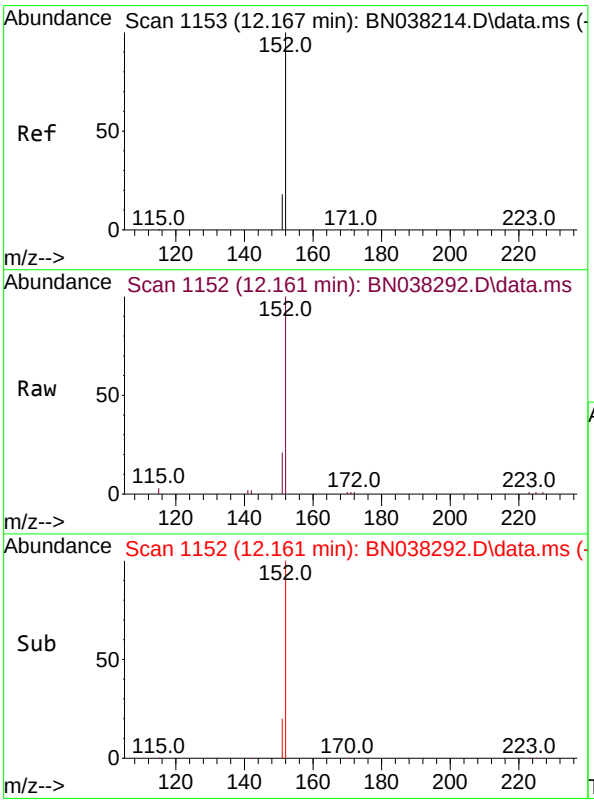
#9
Naphthalene
Concen: 0.058 ng
RT: 10.605 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225

Tgt Ion:128 Resp: 2979

Ion	Ratio	Lower	Upper
128	100		
129	15.6	9.1	13.7#
127	16.1	10.6	16.0#

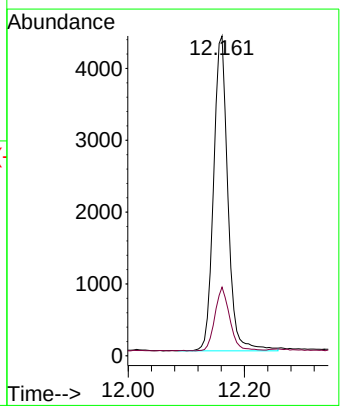


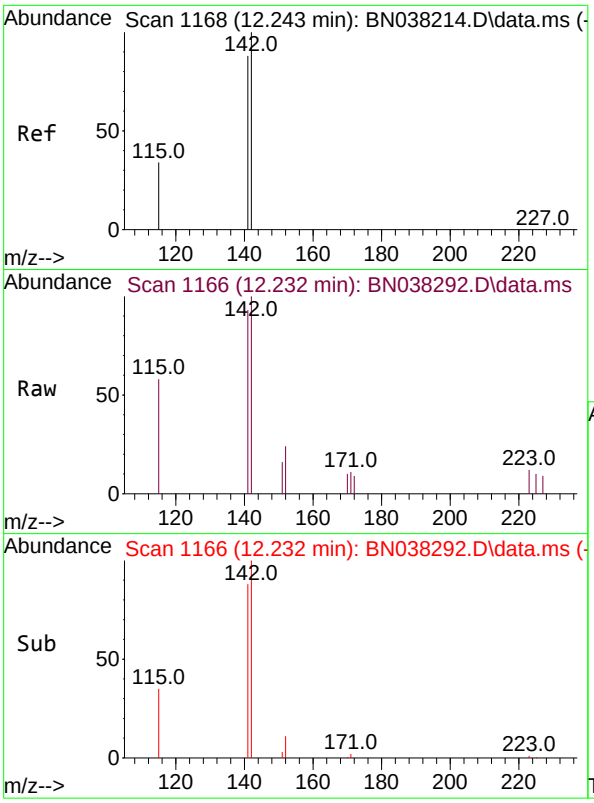


#11
2-Methylnaphthalene-d10
Concen: 0.285 ng
RT: 12.161 min Scan# 1152
Delta R.T. -0.005 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Tgt Ion:152 Resp: 7493

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.7	25.1



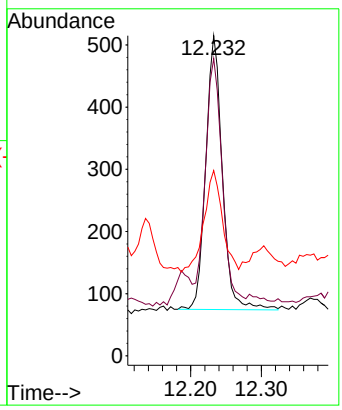


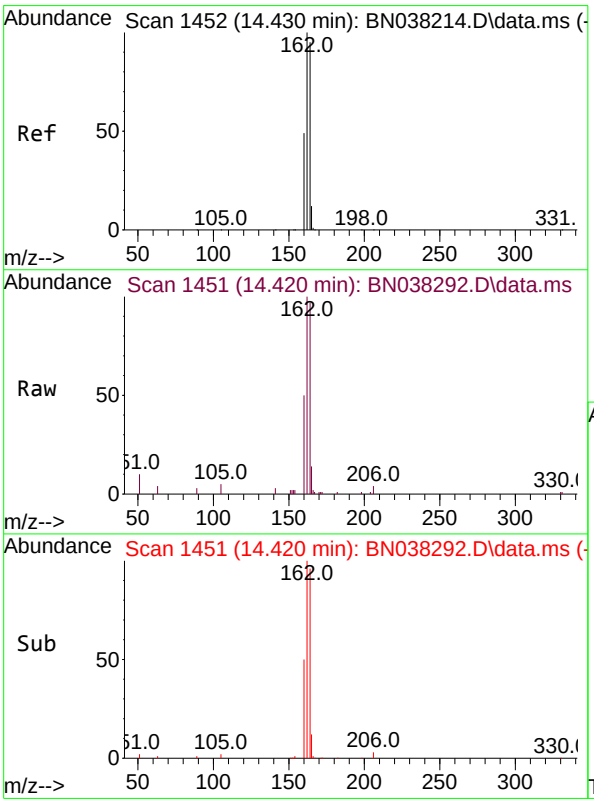
#12
2-Methylnaphthalene
Concen: 0.021 ng
RT: 12.232 min Scan# 11
Delta R.T. -0.011 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225

Tgt Ion:142 Resp: 719

Ion	Ratio	Lower	Upper
142	100		
141	92.8	70.9	106.3
115	57.9	27.7	41.5#

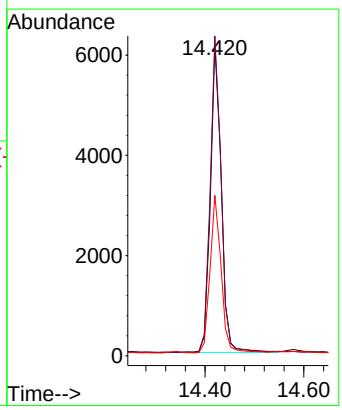


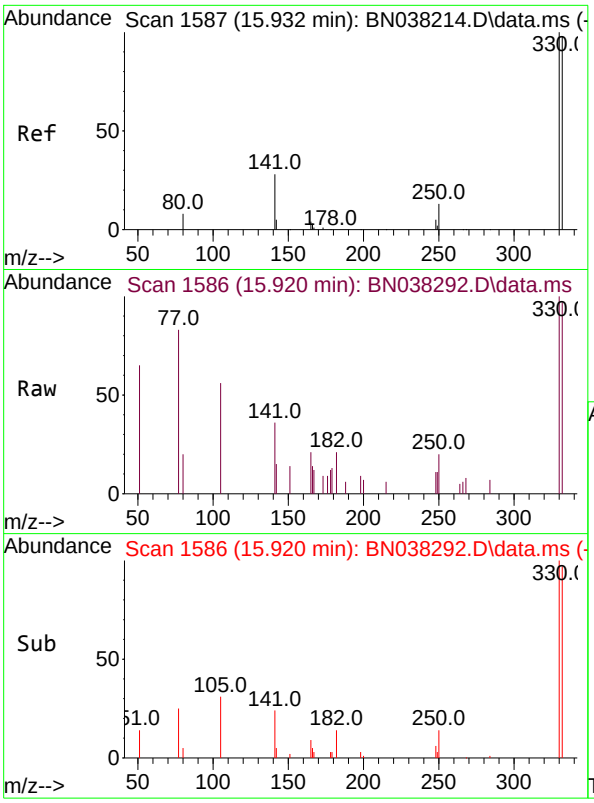


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.420 min Scan# 1451
Delta R.T. -0.011 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Tgt Ion:164 Resp: 9412

Ion	Ratio	Lower	Upper
164	100		
162	102.9	83.8	125.8
160	51.7	41.6	62.4



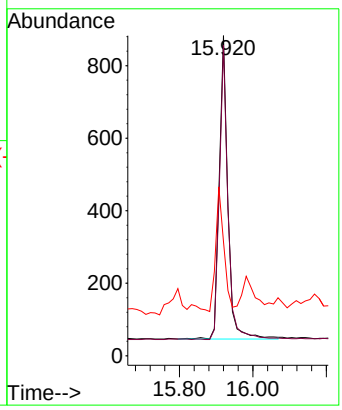


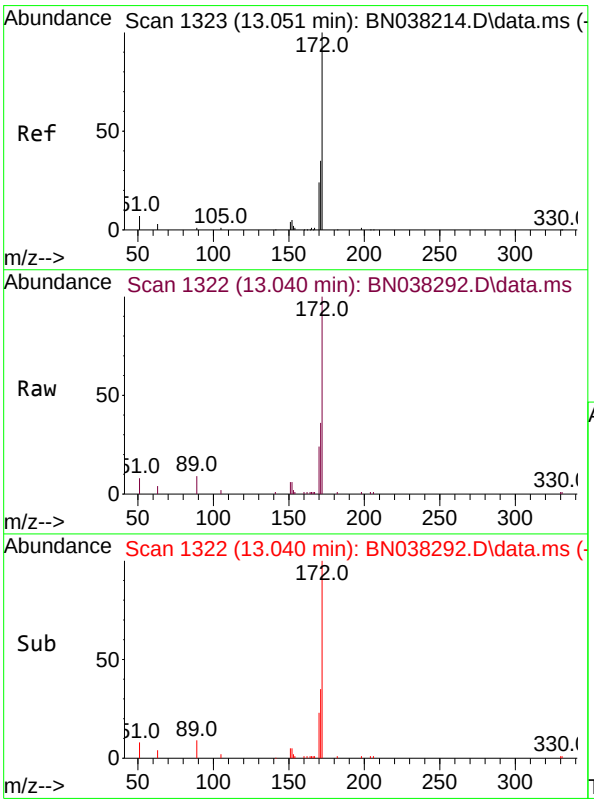
#14
2,4,6-Tribromophenol
Concen: 0.463 ng
RT: 15.920 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225

Tgt Ion:330 Resp: 1370

Ion	Ratio	Lower	Upper
330	100		
332	96.1	77.8	116.6
141	37.7	33.0	49.4

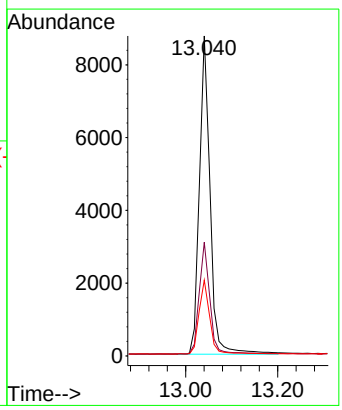


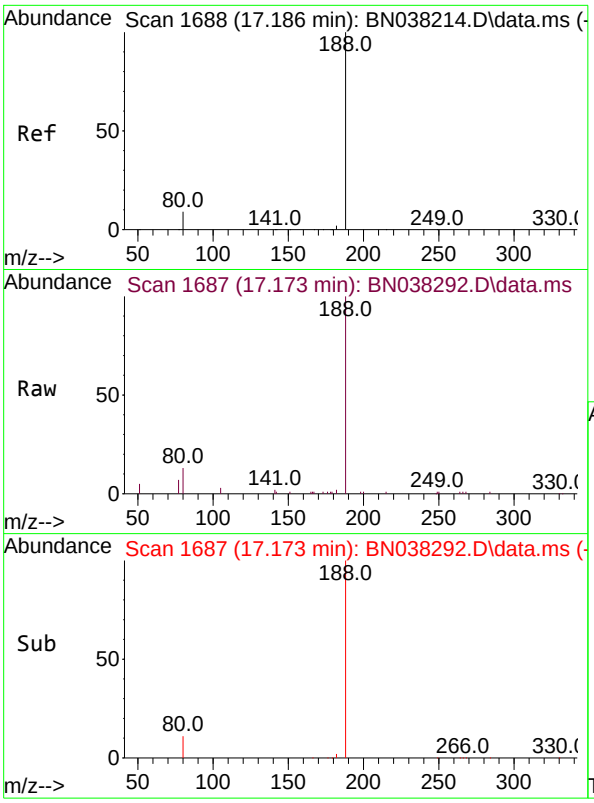


#15
2-Fluorobiphenyl
Concen: 0.343 ng
RT: 13.040 min Scan# 1322
Delta R.T. -0.011 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Tgt Ion:172 Resp: 12474

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.1	42.1
170	23.7	19.1	28.7



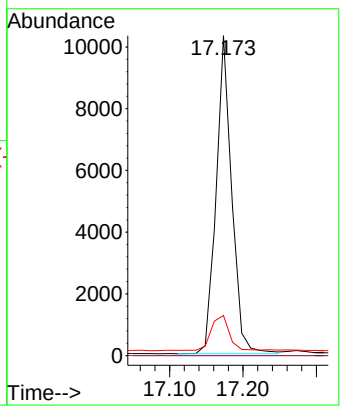


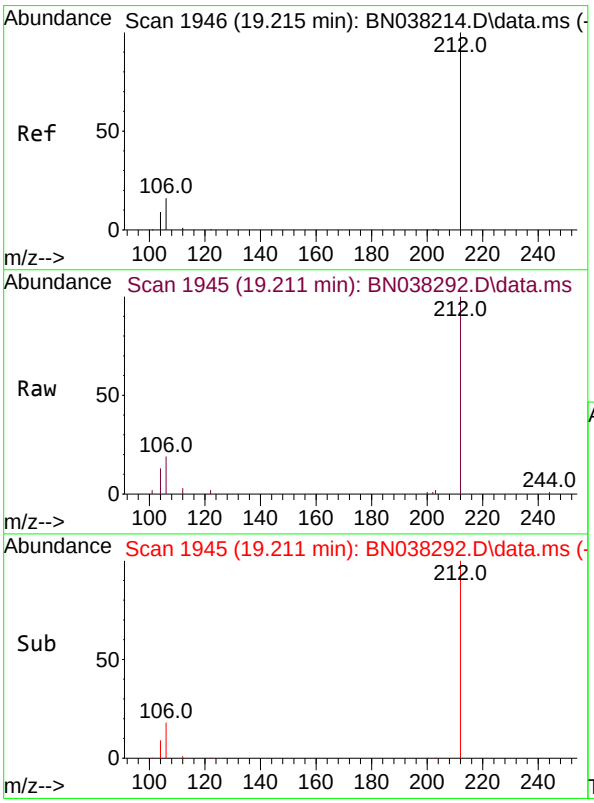
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.173 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225

Tgt Ion:188 Resp: 15199

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.5	7.7	11.5#

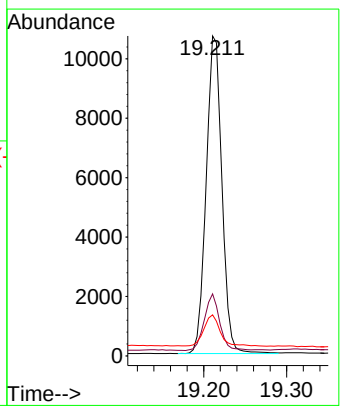


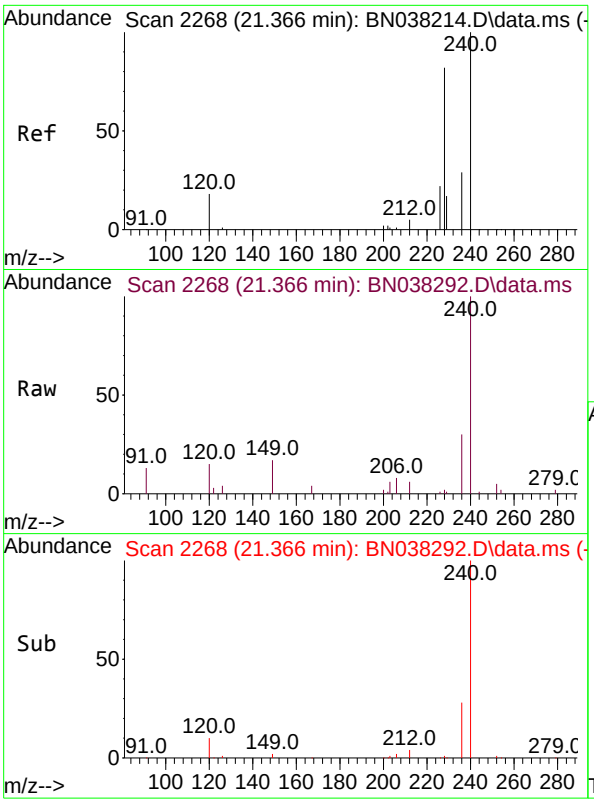


#27
Fluoranthene-d10
Concen: 0.426 ng
RT: 19.211 min Scan# 1945
Delta R.T. -0.005 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Tgt Ion:212 Resp: 14055

Ion	Ratio	Lower	Upper
212	100		
106	17.4	12.7	19.1
104	10.2	7.3	10.9



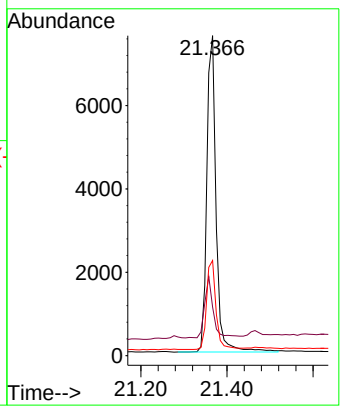


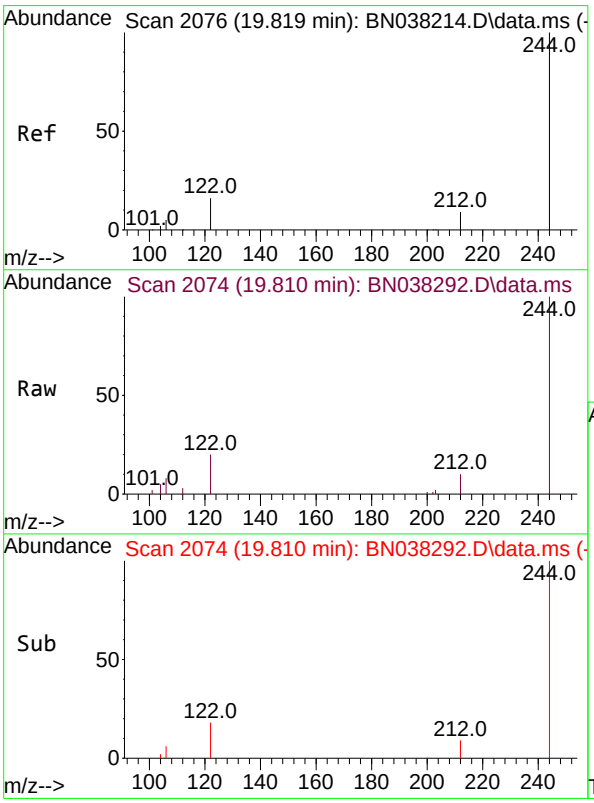
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.366 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225

Tgt Ion:240 Resp: 11302

Ion	Ratio	Lower	Upper
240	100		
120	15.2	18.1	27.1#
236	29.7	24.2	36.4

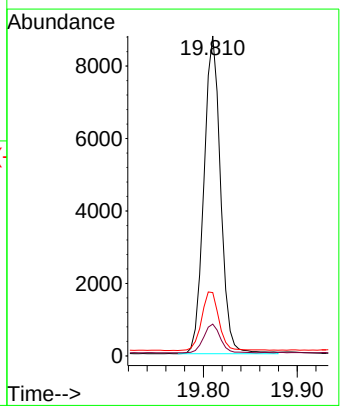


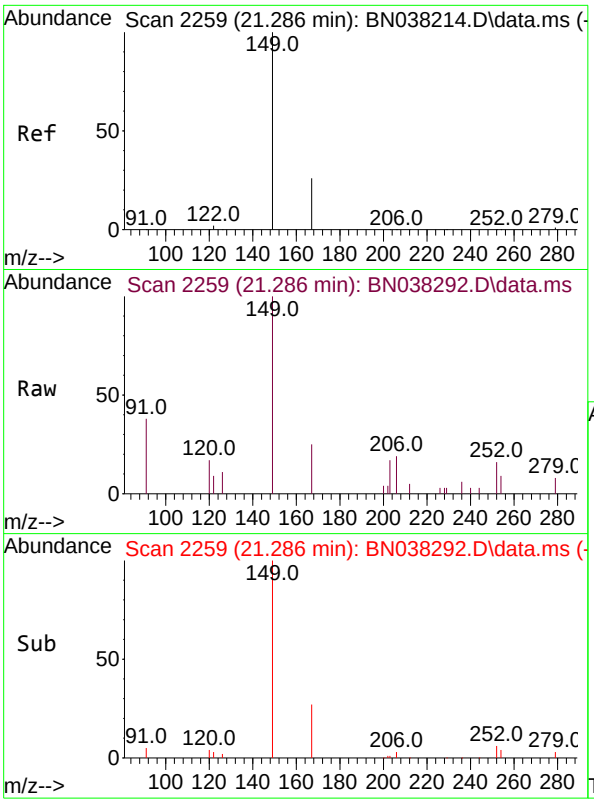


#31
Terphenyl-d14
Concen: 0.415 ng
RT: 19.810 min Scan# 2074
Delta R.T. -0.009 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Tgt Ion:244 Resp: 10834

Ion	Ratio	Lower	Upper
244	100		
212	10.0	7.7	11.5
122	19.8	13.6	20.4



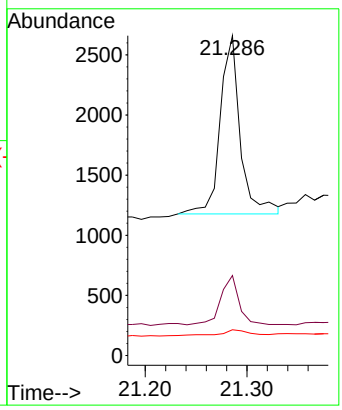


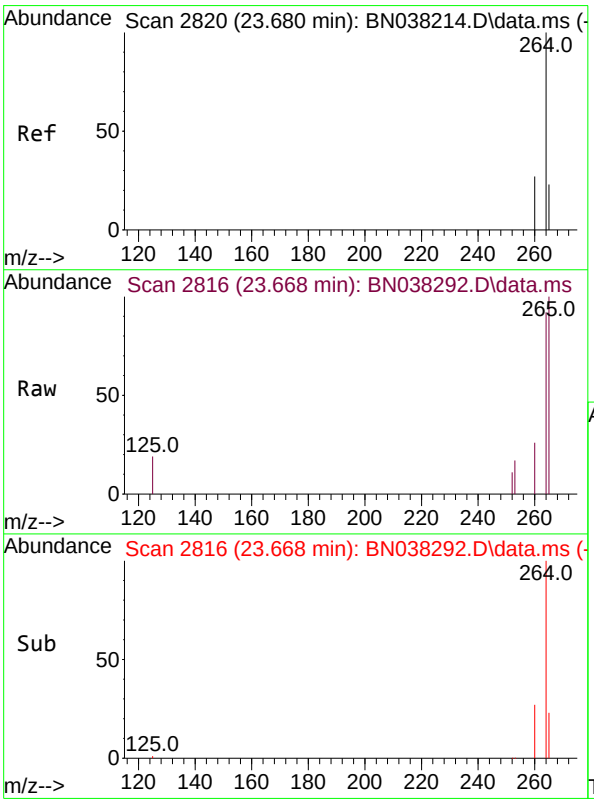
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.097 ng
RT: 21.286 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225

Tgt Ion:149 Resp: 2038

Ion	Ratio	Lower	Upper
149	100		
167	25.1	20.7	31.1
279	4.3	2.5	3.7#

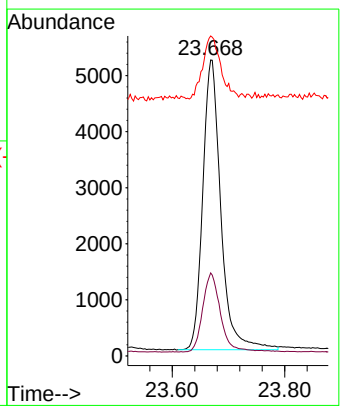




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.668 min Scan# 2816
Delta R.T. -0.012 min
Lab File: BN038292.D
Acq: 06 Dec 2025 02:45

Tgt Ion:264 Resp: 11529

Ion	Ratio	Lower	Upper
264	100		
260	28.0	21.7	32.5
265	108.1	98.0	147.0



Raw Data: **BN038332.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	12/02/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	12/02/25
Client Sample ID:	BR-01-190-120225DL	SDG No.:	Q3756
Lab Sample ID:	Q3756-03DL	Matrix:	Water
Analytical Method:	SW8270ESIM Level: LOW	% Solid:	0
Sample Wt/Vol:	970 mL Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	3510C Prep Date: 12/05/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
123-91-1	1,4-Dioxane	5.40	D	2	0.14	0.41	ug/L	12/12/25 01:13	PB170838
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.26			30 (47) - 150 (106)	66%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.36			30 (54) - 150 (157)	89%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.30			30 (56) - 130 (116)	76%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.30			30 (50) - 130 (126)	74%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.44			30 (54) - 130 (175)	109%	SPK: 0.4		
INTERNAL STANDARDS		**Area Count**							
3855-82-1	1,4-Dichlorobenzene-d4	5760							
1146-65-2	Naphthalene-d8	15500							
15067-26-2	Acenaphthene-d10	8100							
1517-22-2	Phenanthrene-d10	15200							
1719-03-5	Chrysene-d12	11100							
1520-96-3	Perylene-d12	11000							

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\BN121125\
Data File : BN038332.D
Acq On : 12 Dec 2025 01:13
Operator : RC/JU
Sample : Q3756-03DL 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225DL

Quant Time: Dec 12 04:16:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration

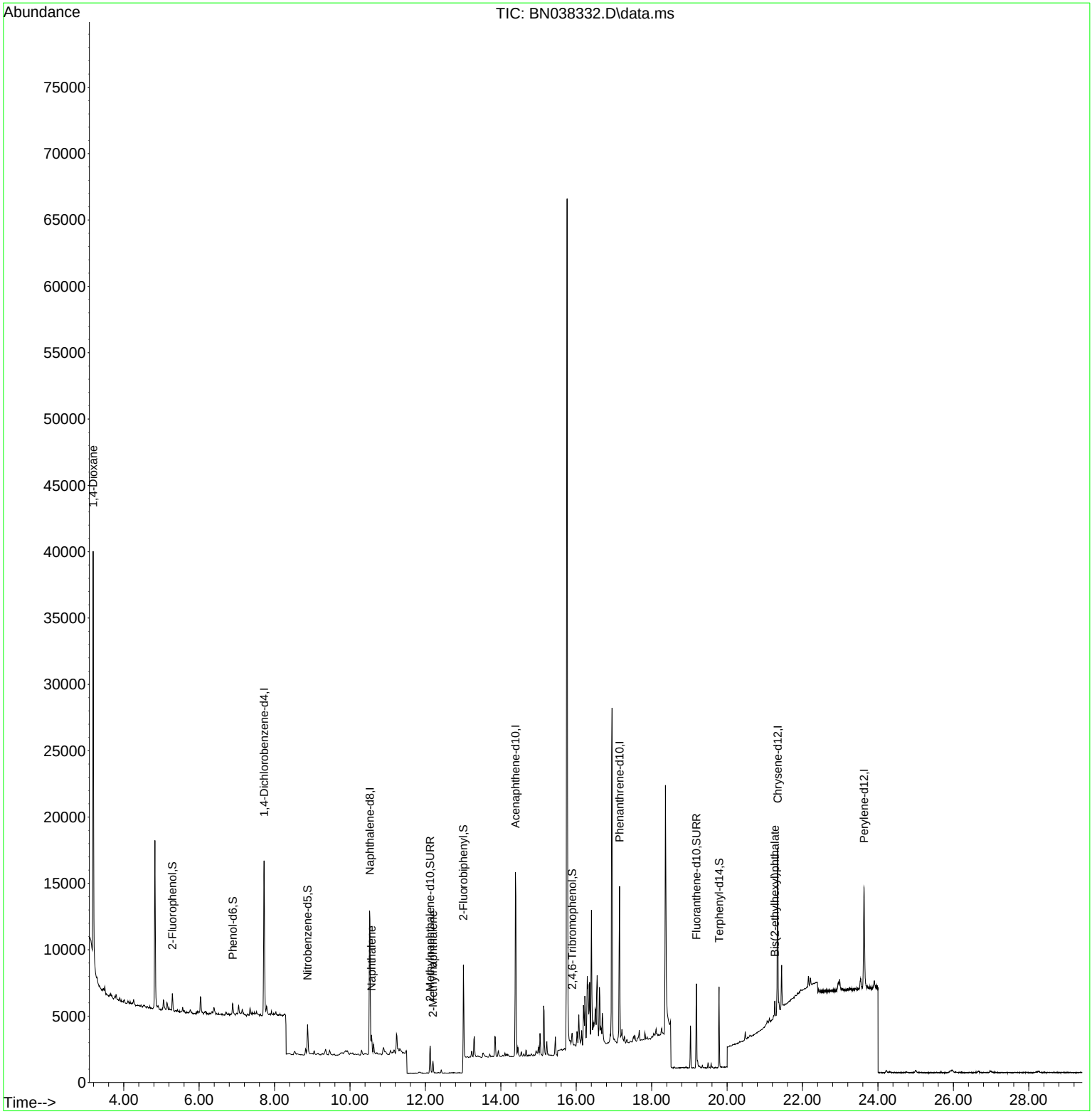
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	5762	0.400	ng		0.00
7) Naphthalene-d8	10.530	136	15461	0.400	ng		0.00
13) Acenaphthene-d10	14.388	164	8101	0.400	ng		-0.01
19) Phenanthrene-d10	17.149	188	15232	0.400	ng		0.00
29) Chrysene-d12	21.340	240	11067	0.400	ng		0.00
35) Perylene-d12	23.630	264	11044	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	1060	0.074	ng		0.00
5) Phenol-d6	6.894	99	813	0.048	ng		0.00
8) Nitrobenzene-d5	8.875	82	1988	0.152	ng		0.00
11) 2-Methylnaphthalene-d10	12.126	152	2870	0.132	ng		0.00
14) 2,4,6-Tribromophenol	15.895	330	618	0.172	ng		0.00
15) 2-Fluorobiphenyl	13.008	172	5793	0.148	ng		0.00
27) Fluoranthene-d10	19.187	212	6697	0.178	ng		0.00
31) Terphenyl-d14	19.787	244	5373	0.218	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.189	88	17328	2.623	ng		97
9) Naphthalene	10.573	128	1798	0.039	ng	#	88
12) 2-Methylnaphthalene	12.202	142	644	0.022	ng	#	83
34) Bis(2-ethylhexyl)phtha...	21.268	149	1375	0.059	ng	#	98

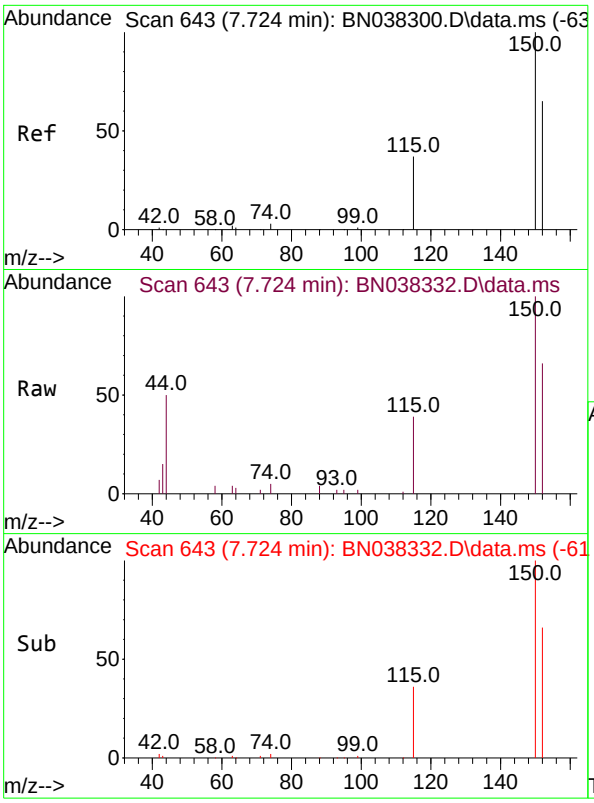
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121125\
Data File : BN038332.D
Acq On : 12 Dec 2025 01:13
Operator : RC/JU
Sample : Q3756-03DL 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225DL

Quant Time: Dec 12 04:16:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration



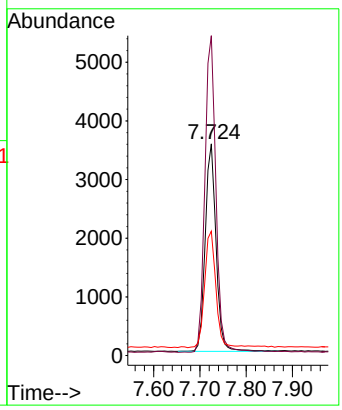


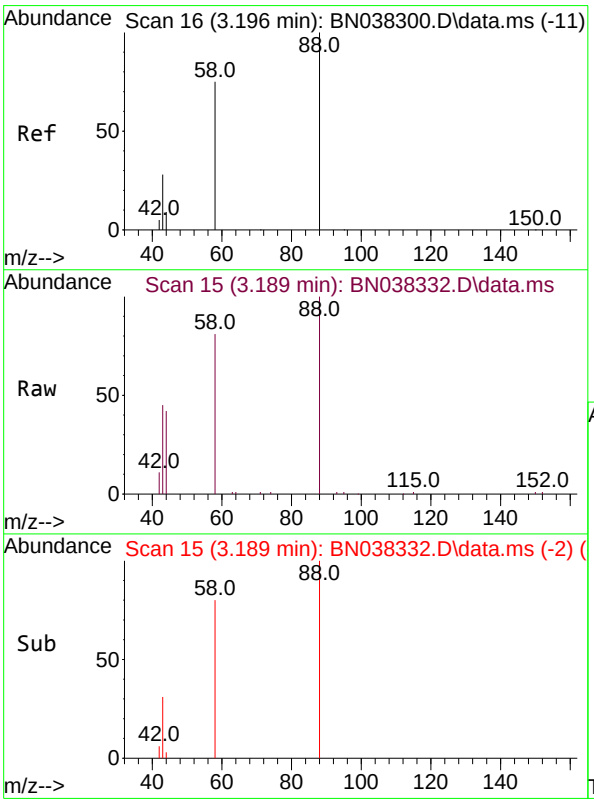
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225DL

Tgt Ion:152 Resp: 5762

Ion	Ratio	Lower	Upper
152	100		
150	151.1	122.4	183.6
115	58.7	47.3	70.9

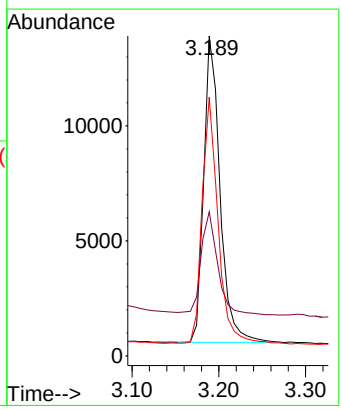


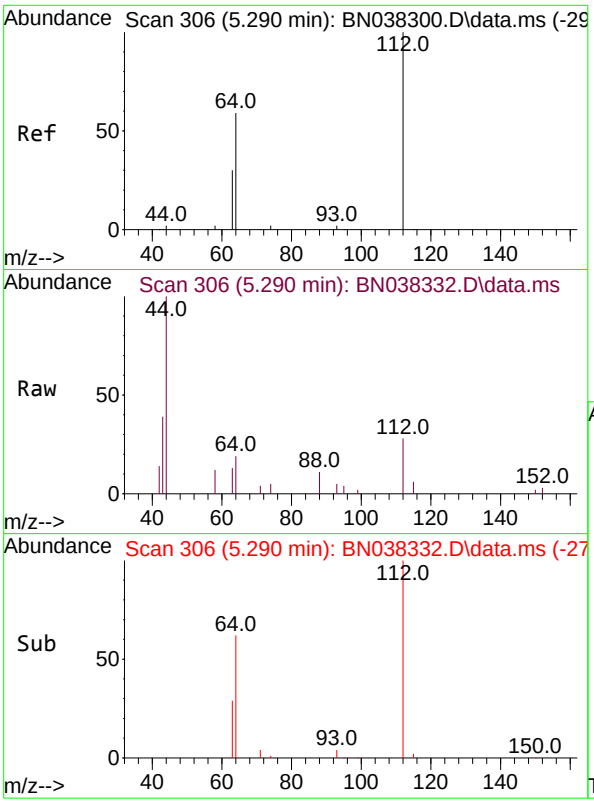


#2
1,4-Dioxane
Concen: 2.623 ng
RT: 3.189 min Scan# 15
Delta R.T. -0.007 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Tgt Ion: 88 Resp: 17328

Ion	Ratio	Lower	Upper
88	100		
43	34.8	24.9	37.3
58	78.0	61.4	92.0



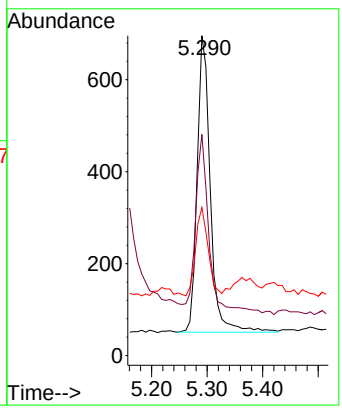


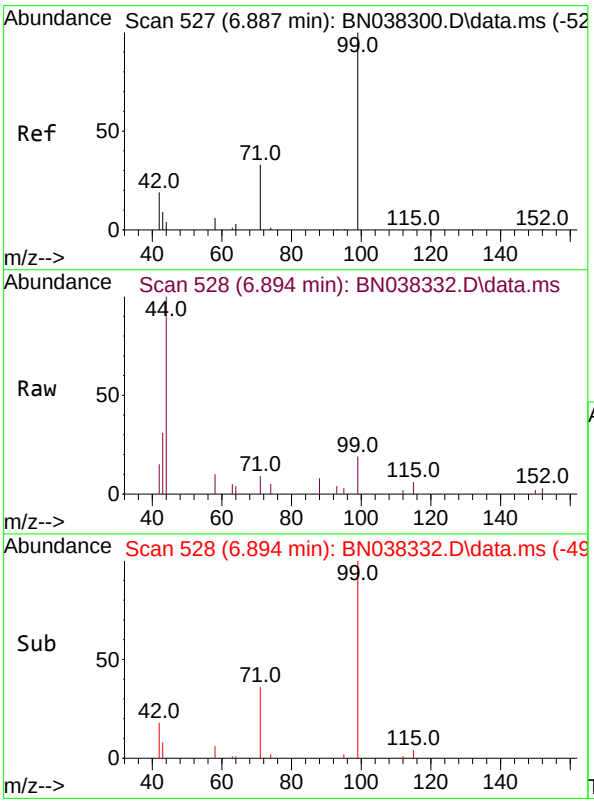
#4
2-Fluorophenol
Concen: 0.074 ng
RT: 5.290 min Scan# 30
Delta R.T. 0.000 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225DL

Tgt Ion:112 Resp: 1060

Ion	Ratio	Lower	Upper
112	100		
64	65.1	44.4	66.6
63	28.0	23.4	35.0

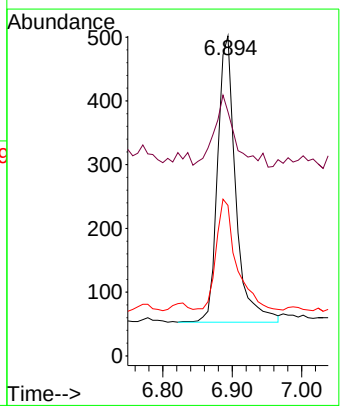


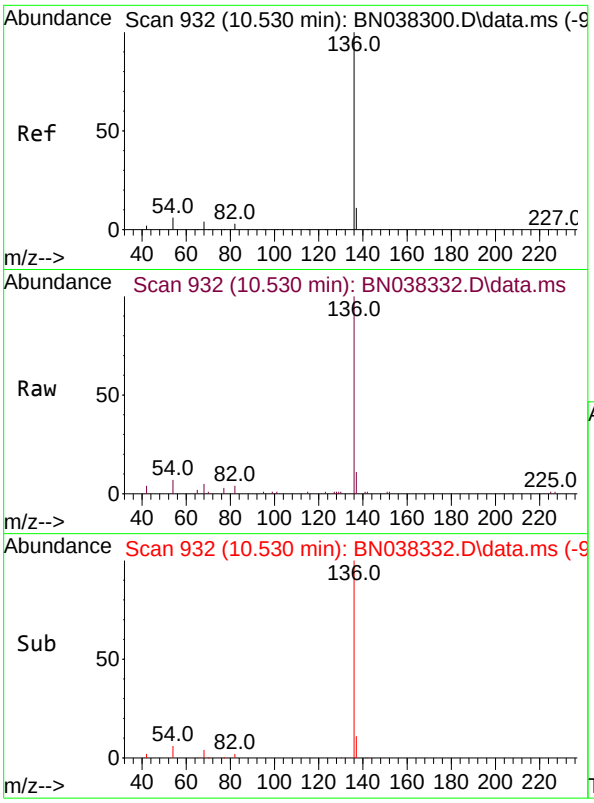


#5
Phenol-d6
Concen: 0.048 ng
RT: 6.894 min Scan# 528
Delta R.T. 0.007 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Tgt Ion: 99 Resp: 813

Ion	Ratio	Lower	Upper
99	100		
42	28.5	16.5	24.7#
71	44.6	24.9	37.3#



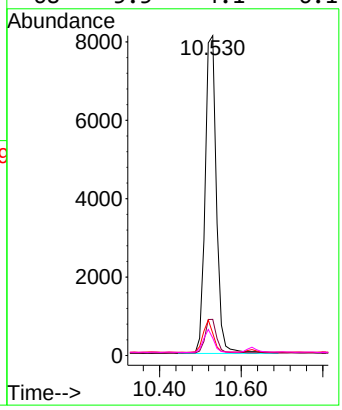


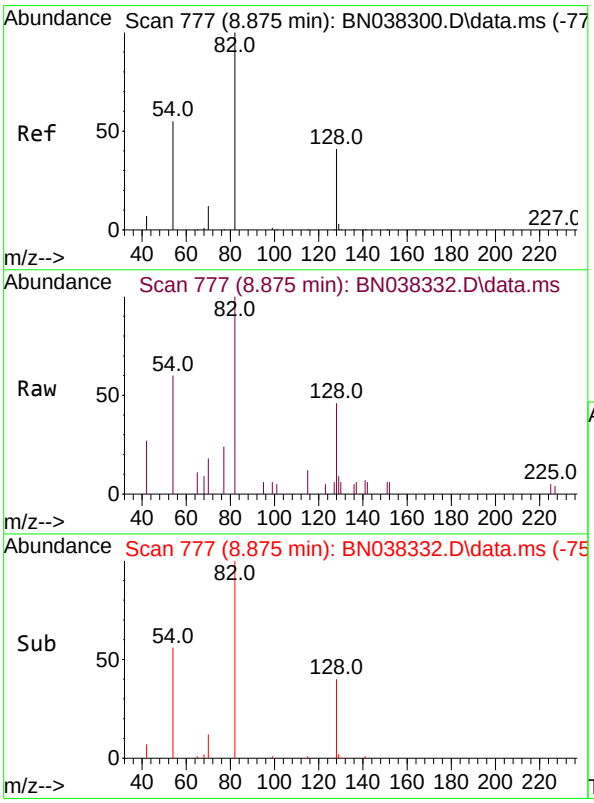
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.530 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225DL

Tgt Ion:136 Resp: 15461

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	7.0	5.2	7.8
68	5.5	4.1	6.1

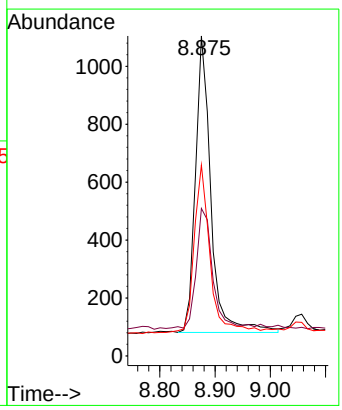


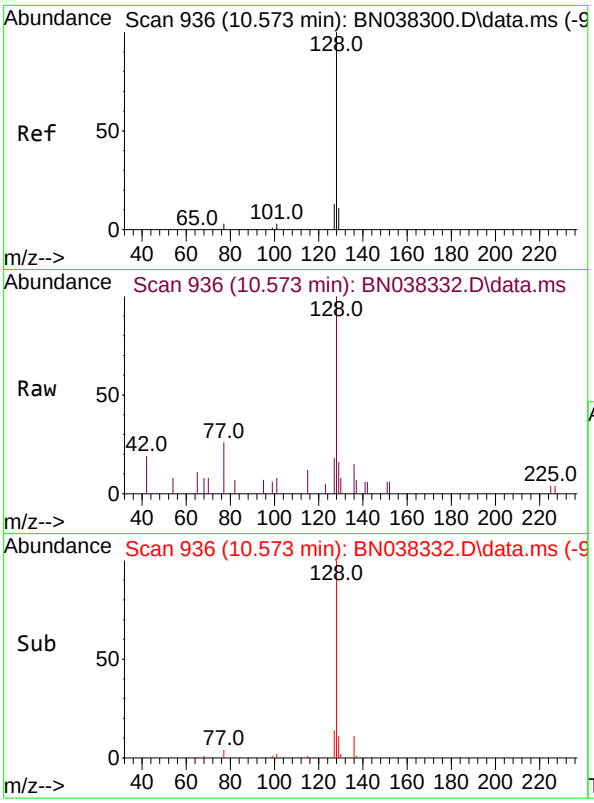


#8
Nitrobenzene-d5
Concen: 0.152 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Tgt Ion: 82 Resp: 1988

Ion	Ratio	Lower	Upper
82	100		
128	46.1	34.0	51.0
54	59.6	44.4	66.6



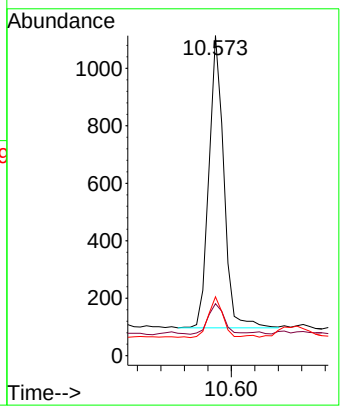


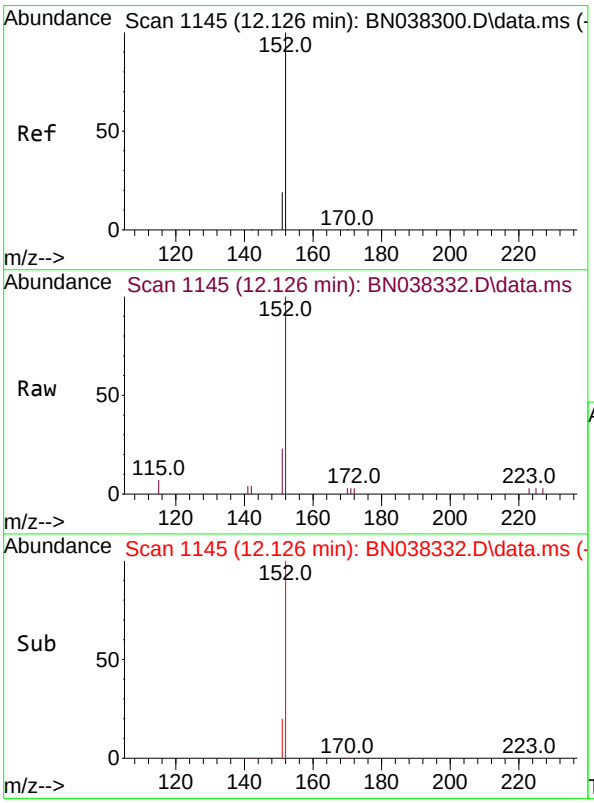
#9
Naphthalene
Concen: 0.039 ng
RT: 10.573 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225DL

Tgt Ion:128 Resp: 1798

Ion	Ratio	Lower	Upper
128	100		
129	16.2	9.1	13.7#
127	18.4	10.9	16.3#

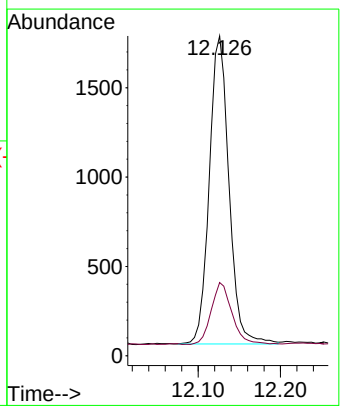


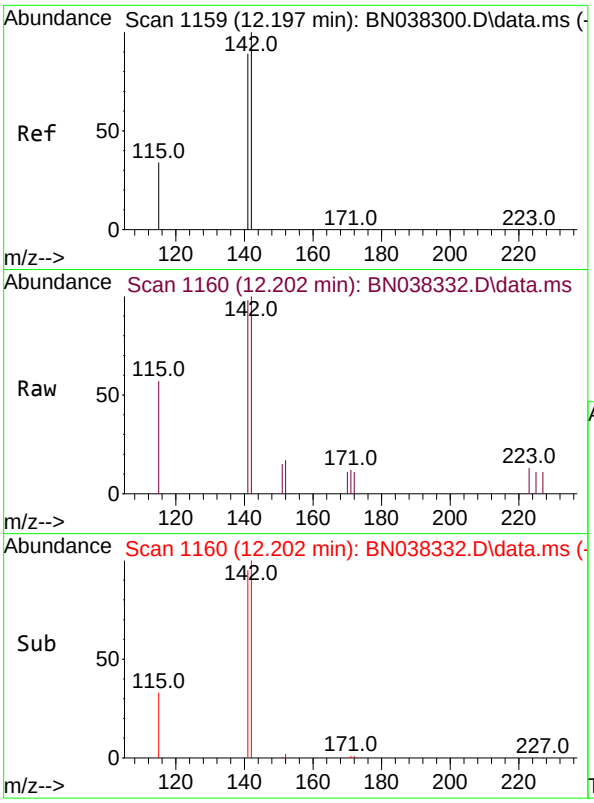


#11
2-Methylnaphthalene-d10
Concen: 0.132 ng
RT: 12.126 min Scan# 1145
Delta R.T. 0.000 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Tgt Ion:152 Resp: 2870

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6



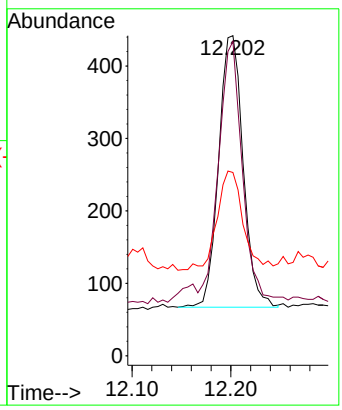


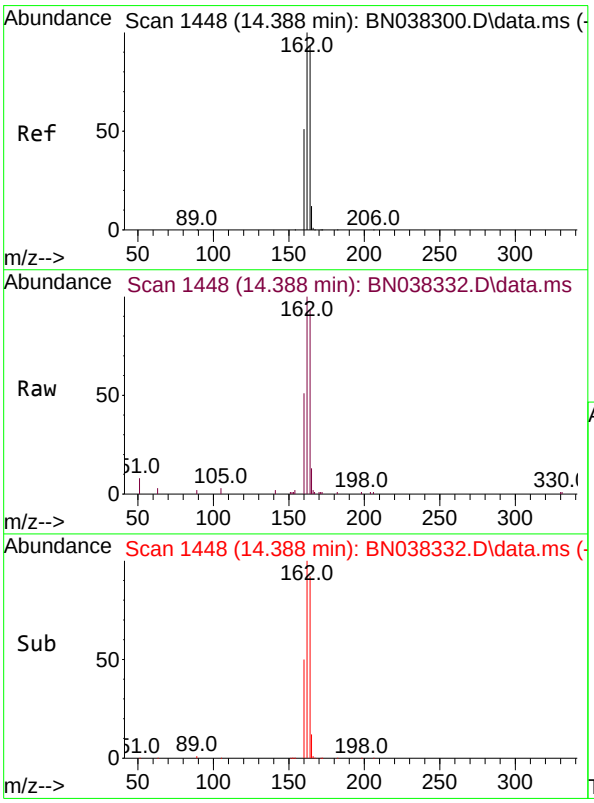
#12
2-Methylnaphthalene
Concen: 0.022 ng
RT: 12.202 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225DL

Tgt Ion:142 Resp: 644

Ion	Ratio	Lower	Upper
142	100		
141	98.2	71.4	107.2
115	57.2	28.4	42.6#

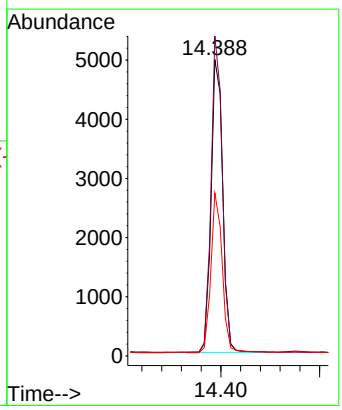


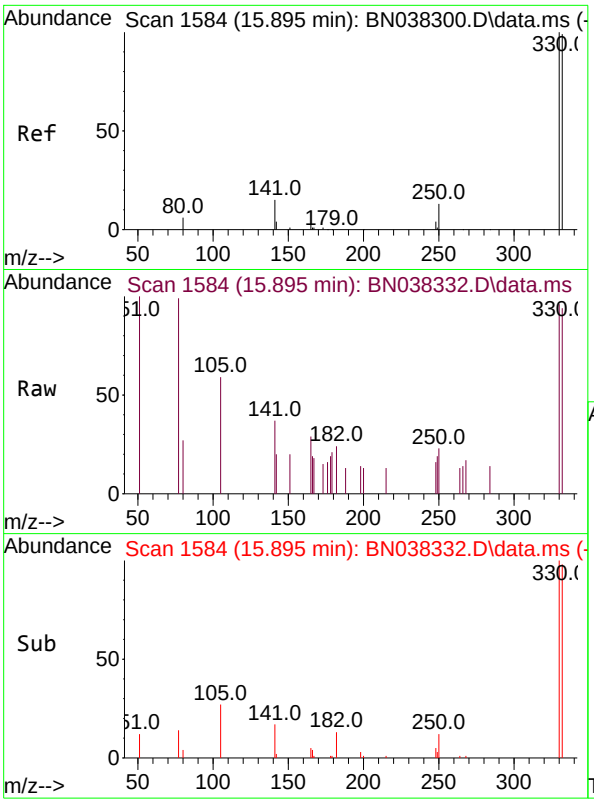


#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 1448
Delta R.T. -0.011 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Tgt Ion:164 Resp: 8101

Ion	Ratio	Lower	Upper
164	100		
162	107.9	86.2	129.4
160	54.9	44.6	67.0



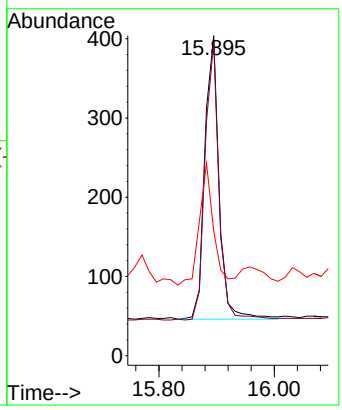


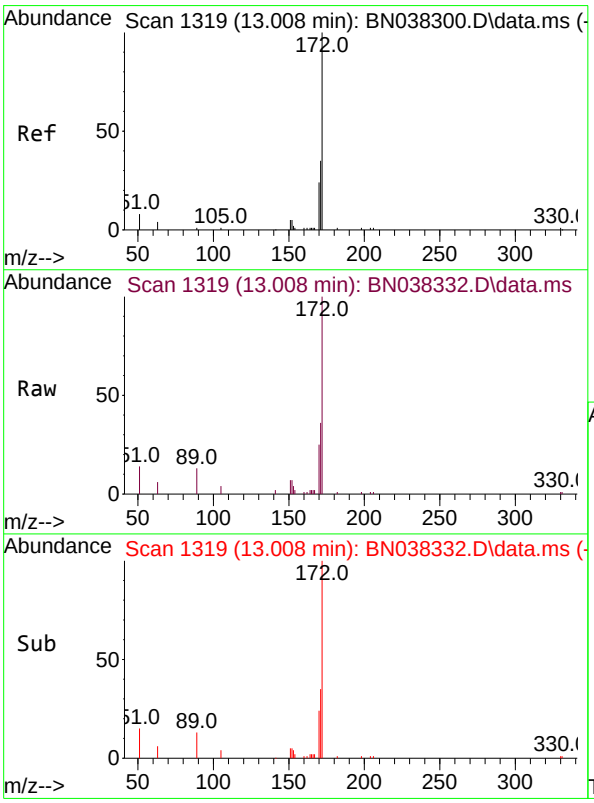
#14
2,4,6-Tribromophenol
Concen: 0.172 ng
RT: 15.895 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225DL

Tgt Ion:330 Resp: 618

Ion	Ratio	Lower	Upper
330	100		
332	95.3	75.8	113.6
141	41.4	31.8	47.8

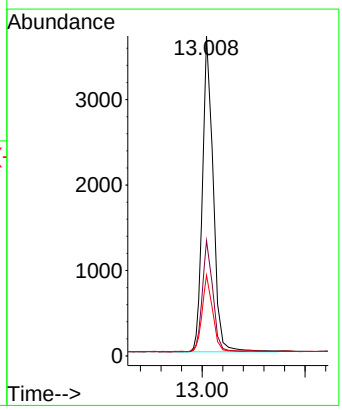


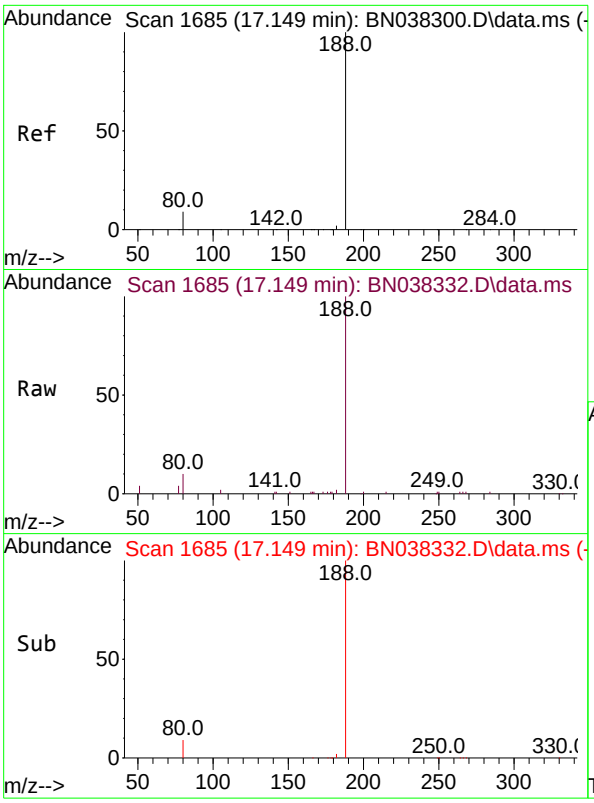


#15
2-Fluorobiphenyl
Concen: 0.148 ng
RT: 13.008 min Scan# 1319
Delta R.T. 0.000 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Tgt Ion:172 Resp: 5793

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.6	42.8
170	25.3	19.3	28.9



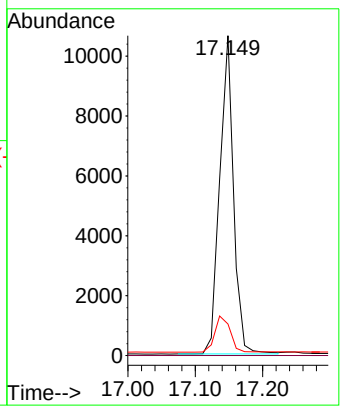


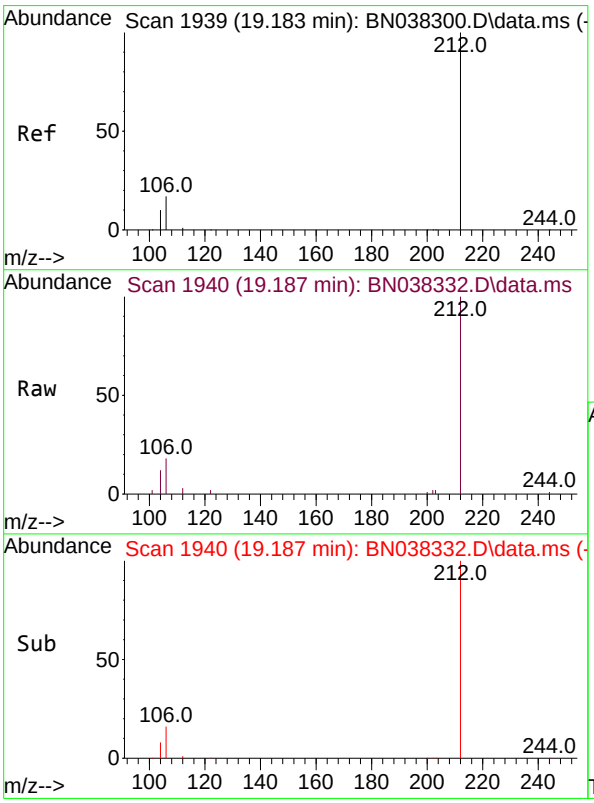
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.149 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225DL

Tgt Ion:188 Resp: 15232

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.9	7.4	11.0

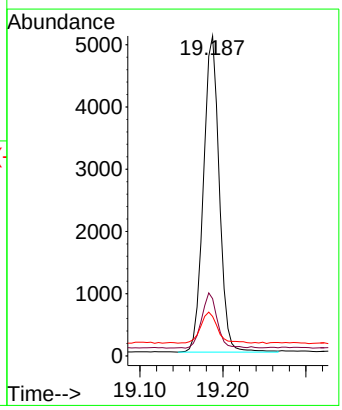


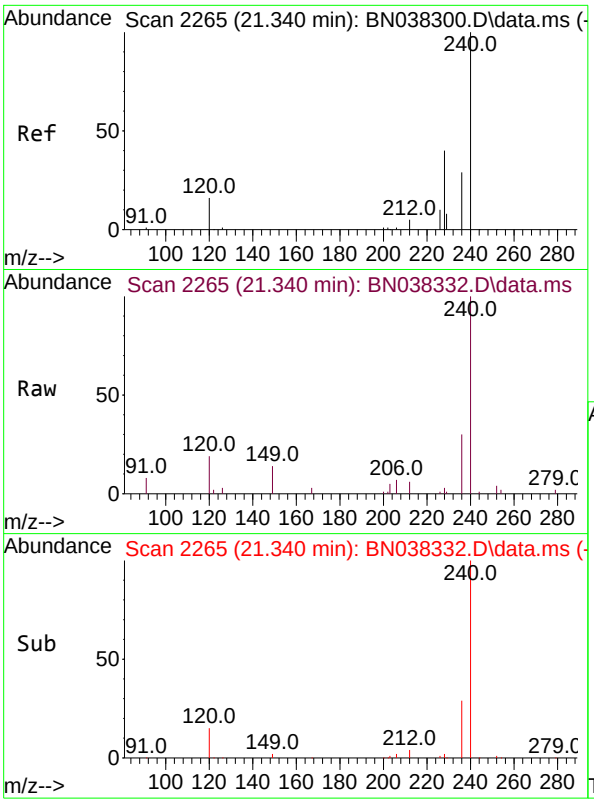


#27
Fluoranthene-d10
Concen: 0.178 ng
RT: 19.187 min Scan# 1940
Delta R.T. 0.000 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Tgt Ion:212 Resp: 6697

Ion	Ratio	Lower	Upper
212	100		
106	16.9	13.7	20.5
104	10.4	7.8	11.8



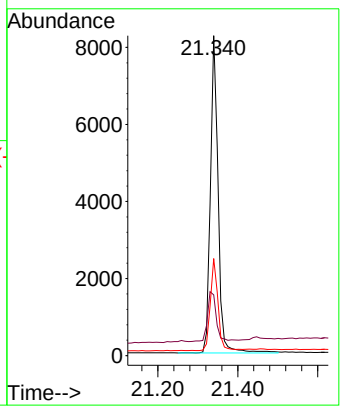


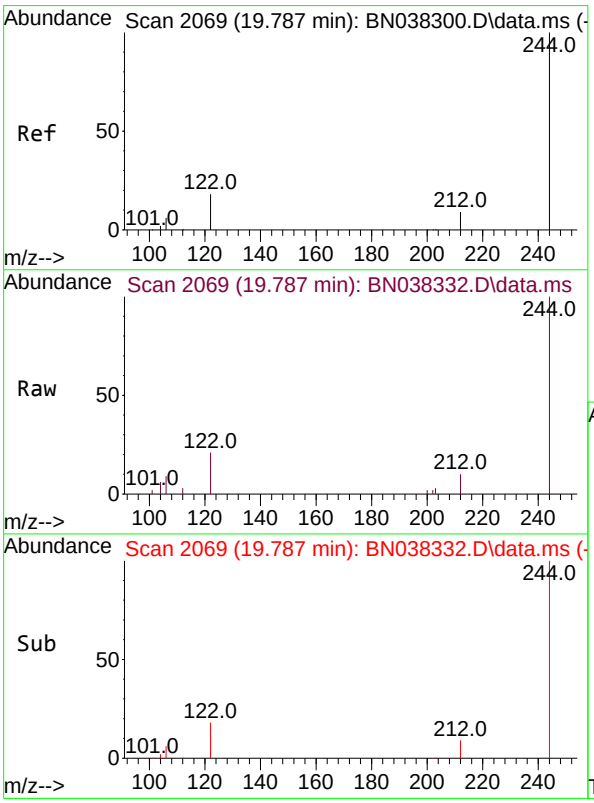
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.340 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225DL

Tgt Ion:240 Resp: 11067

Ion	Ratio	Lower	Upper
240	100		
120	19.0	15.4	23.2
236	30.3	23.9	35.9

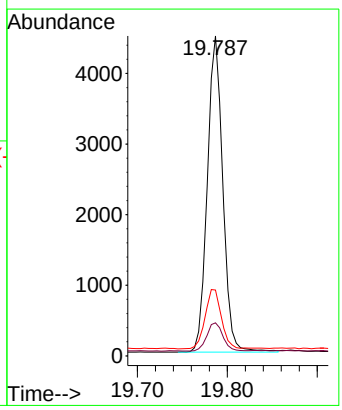


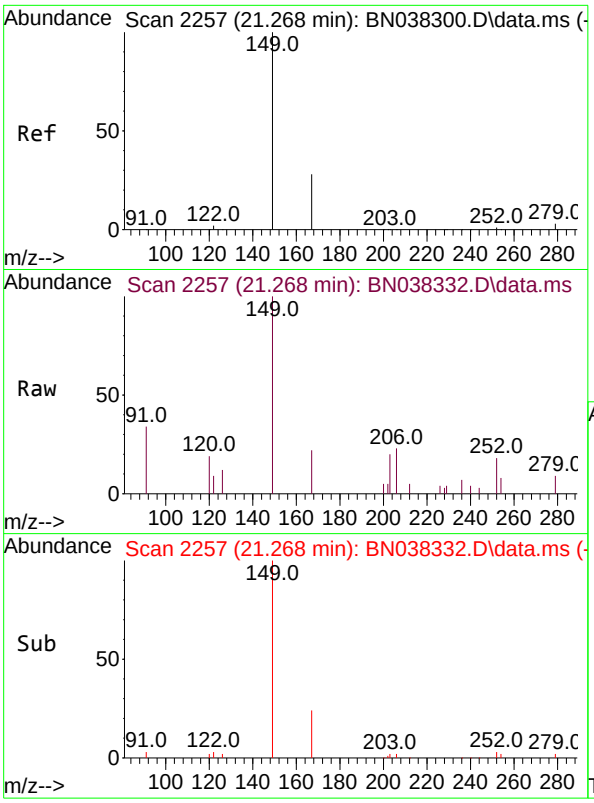


#31
Terphenyl-d14
Concen: 0.218 ng
RT: 19.787 min Scan# 2069
Delta R.T. -0.005 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Tgt Ion:244 Resp: 5373

Ion	Ratio	Lower	Upper
244	100		
212	10.3	7.9	11.9
122	20.6	15.0	22.6



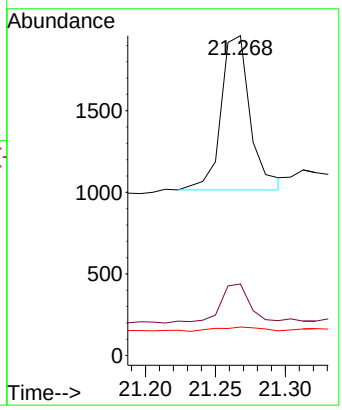


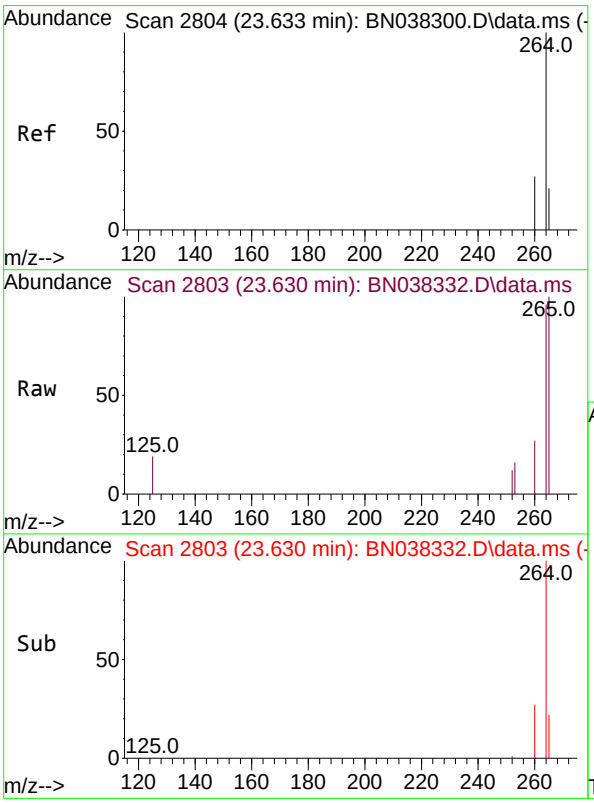
#34
Bis(2-ethylhexyl)phthalate
Concen: 0.059 ng
RT: 21.268 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Instrument :
BNA_N
ClientSampleId :
BR-01-190-120225DL

Tgt Ion:149 Resp: 1375

Ion	Ratio	Lower	Upper
149	100		
167	27.6	21.4	32.0
279	4.4	2.4	3.6#

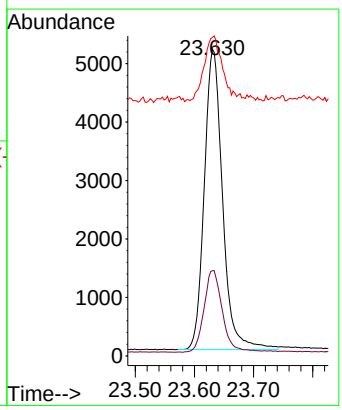




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.630 min Scan# 2803
Delta R.T. -0.003 min
Lab File: BN038332.D
Acq: 12 Dec 2025 01:13

Tgt Ion:264 Resp: 11044

Ion	Ratio	Lower	Upper
264	100		
260	27.8	22.2	33.2
265	103.8	80.2	120.2



Raw Data: **BN038293.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	12/02/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	12/02/25
Client Sample ID:	MW-04-12-120225	SDG No.:	Q3756
Lab Sample ID:	Q3756-05	Matrix:	Water
Analytical Method:	SW8270ESIM Level: LOW	% Solid:	0
Sample Wt/Vol:	900 mL Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	3510C Prep Date: 12/05/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
123-91-1	1,4-Dioxane	0.070	U	1	0.070	0.22	ug/L	12/06/25 03:21	PB170838
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.29			30 (47) - 150 (106)	74%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.37			30 (54) - 150 (157)	94%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.31			30 (56) - 130 (116)	77%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.34			30 (50) - 130 (126)	84%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.52			30 (54) - 130 (175)	129%	SPK: 0.4		
INTERNAL STANDARDS		**Area Count**							
3855-82-1	1,4-Dichlorobenzene-d4	6900							
1146-65-2	Naphthalene-d8	20800							
15067-26-2	Acenaphthene-d10	11100							
1517-22-2	Phenanthrene-d10	16500							
1719-03-5	Chrysene-d12	9940							
1520-96-3	Perylene-d12	9900							

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

Sample Results: **BN038293.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
Data File : BN038293.D
Acq On : 06 Dec 2025 03:21
Operator : RC/JU
Sample : Q3756-05
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW-04-12-120225

Quant Time: Dec 06 05:25:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration

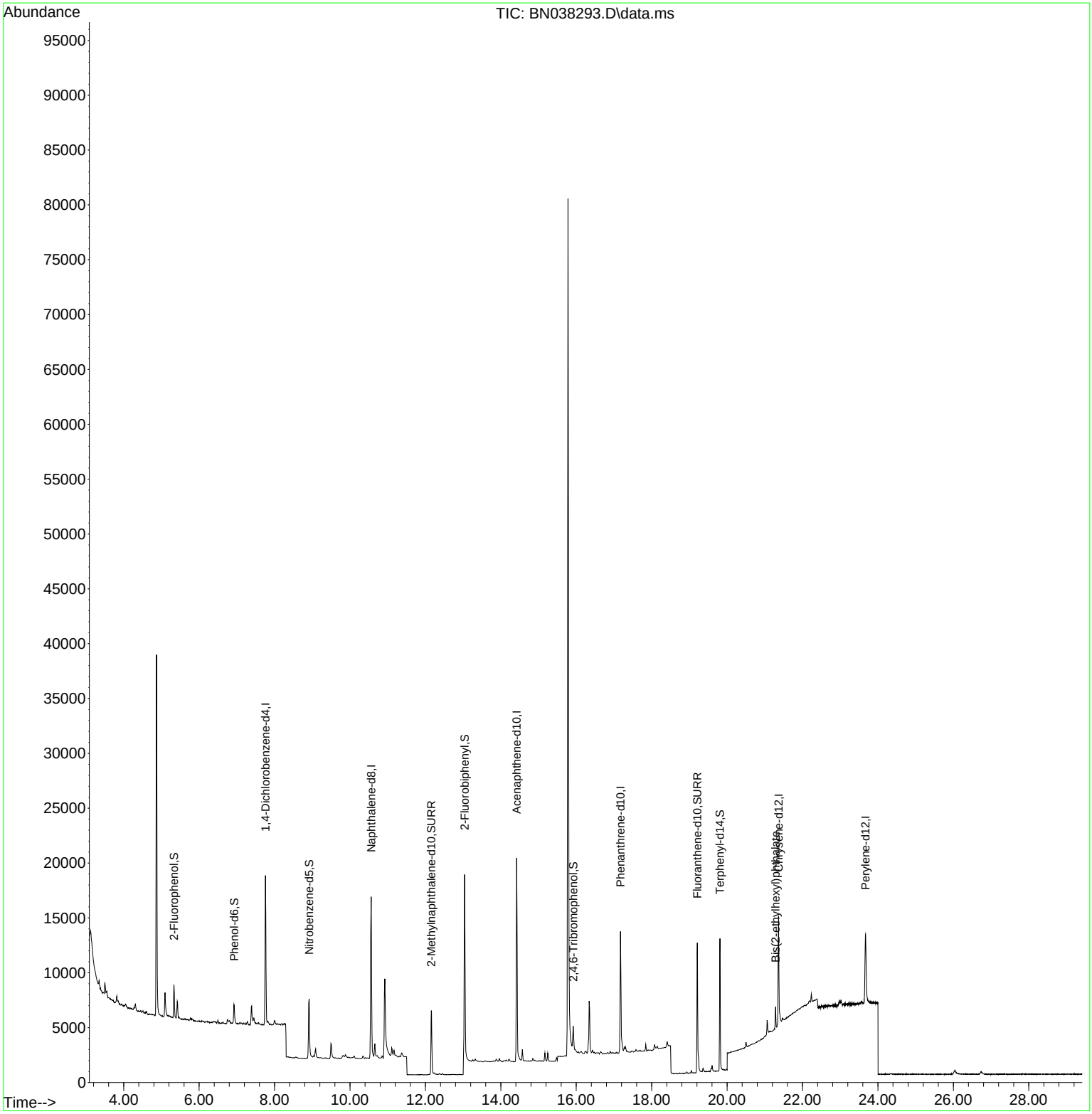
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.760	152	6896	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	20829	0.400	ng	-0.01
13) Acenaphthene-d10	14.420	164	11092	0.400	ng	-0.01
19) Phenanthrene-d10	17.173	188	16516	0.400	ng	#-0.01
29) Chrysene-d12	21.366	240	9936	0.400	ng	# 0.00
35) Perylene-d12	23.671	264	9902	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	2540	0.158	ng	0.00
5) Phenol-d6	6.930	99	1950	0.097	ng	0.00
8) Nitrobenzene-d5	8.918	82	5152	0.309	ng	0.00
11) 2-Methylnaphthalene-d10	12.156	152	8679	0.294	ng	-0.01
14) 2,4,6-Tribromophenol	15.920	330	1383	0.396	ng	-0.01
15) 2-Fluorobiphenyl	13.040	172	14466	0.338	ng	-0.01
27) Fluoranthene-d10	19.211	212	13393	0.374	ng	0.00
31) Terphenyl-d14	19.810	244	11887	0.518	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.286	149	2078	0.113	ng	# 99

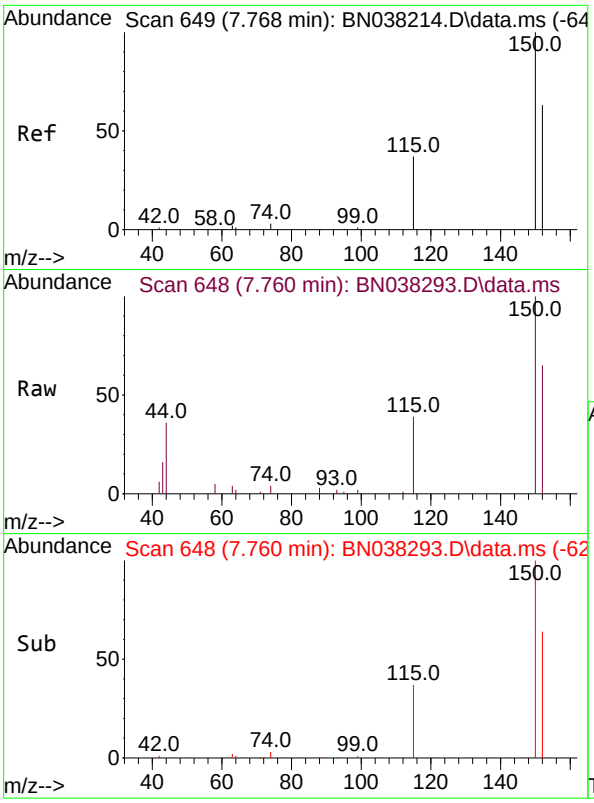
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
Data File : BN038293.D
Acq On : 06 Dec 2025 03:21
Operator : RC/JU
Sample : Q3756-05
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
MW-04-12-120225

Quant Time: Dec 06 05:25:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration



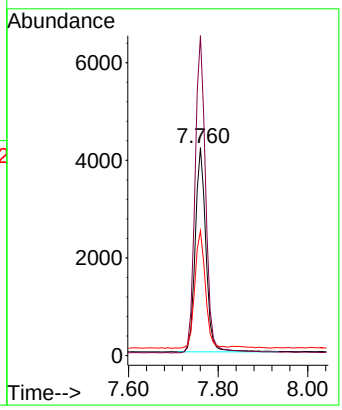


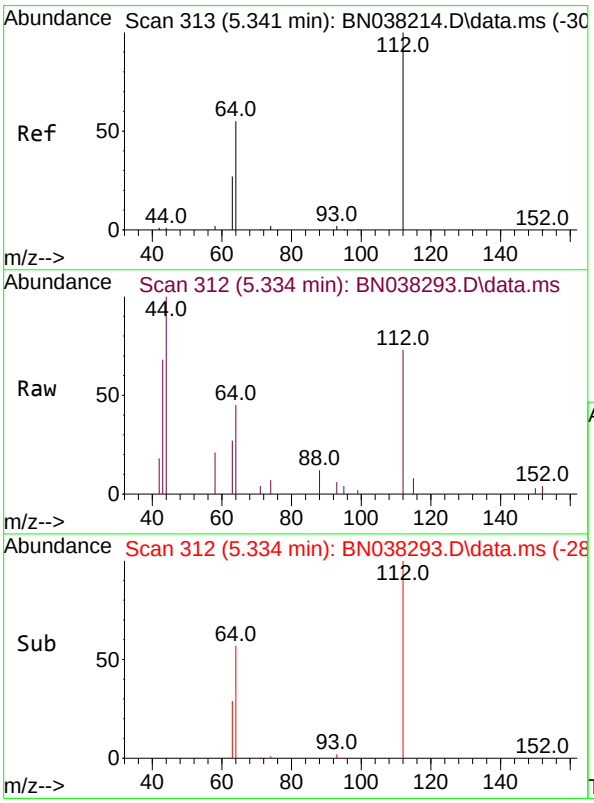
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.760 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

Instrument :
BNA_N
ClientSampleId :
MW-04-12-120225

Tgt Ion:152 Resp: 6896

Ion	Ratio	Lower	Upper
152	100		
150	154.0	125.3	187.9
115	60.1	49.0	73.4

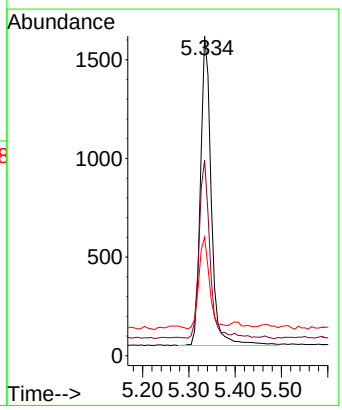


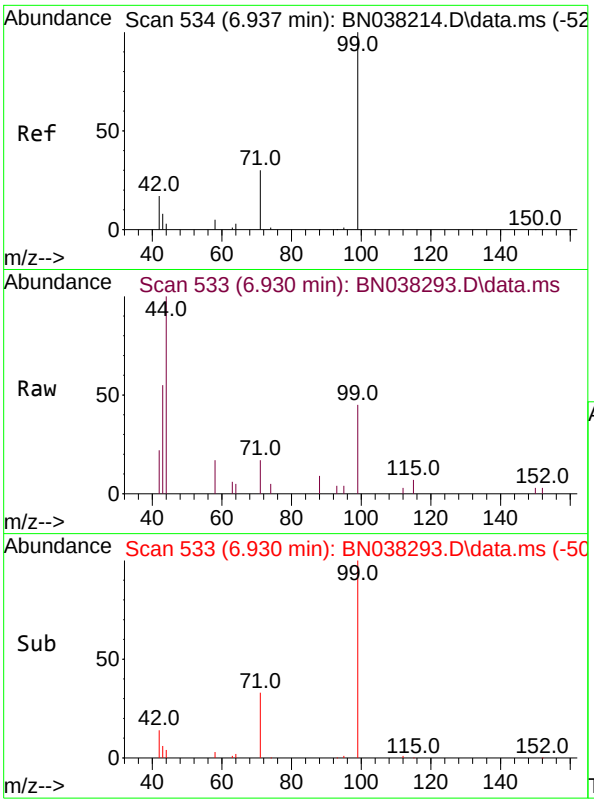


#4
2-Fluorophenol
Concen: 0.158 ng
RT: 5.334 min Scan# 312
Delta R.T. -0.007 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

Tgt Ion:112 Resp: 2540

Ion	Ratio	Lower	Upper
112	100		
64	56.0	45.0	67.4
63	29.4	23.2	34.8



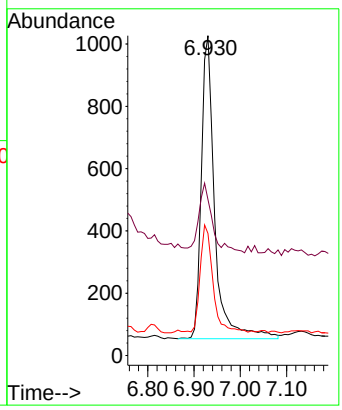


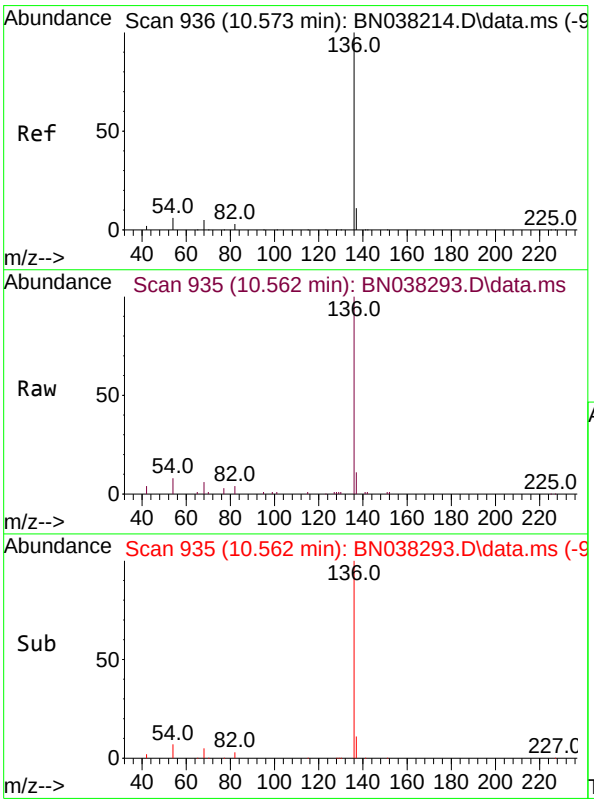
#5
Phenol-d6
Concen: 0.097 ng
RT: 6.930 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

Instrument :
BNA_N
ClientSampleId :
MW-04-12-120225

Tgt Ion: 99 Resp: 1950

Ion	Ratio	Lower	Upper
99	100		
42	17.8	17.0	25.6
71	33.3	25.4	38.2

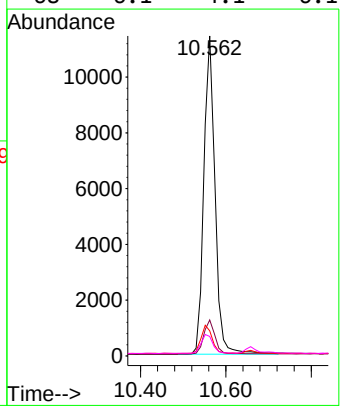


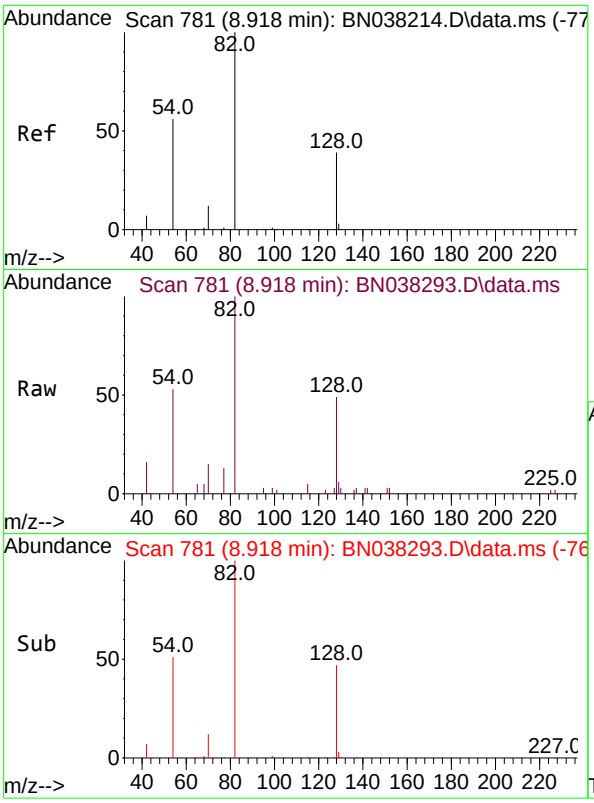


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 935
Delta R.T. -0.011 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

Tgt Ion:136 Resp: 20829

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	7.8	5.4	8.0
68	6.1	4.1	6.1



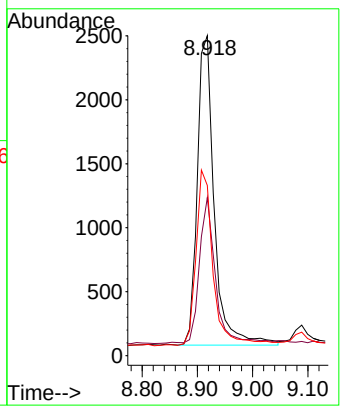


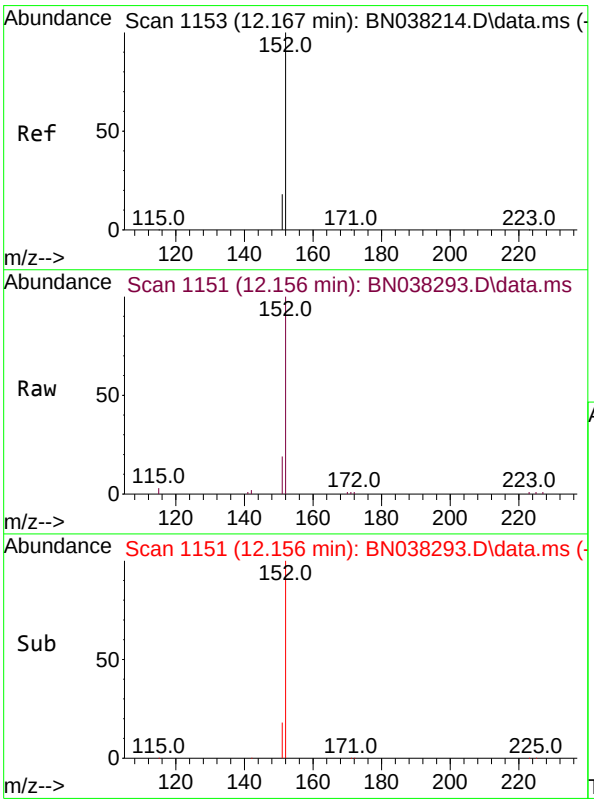
#8
Nitrobenzene-d5
Concen: 0.309 ng
RT: 8.918 min Scan# 78
Delta R.T. 0.000 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

Instrument :
BNA_N
ClientSampleId :
MW-04-12-120225

Tgt Ion: 82 Resp: 5152

Ion	Ratio	Lower	Upper
82	100		
128	49.4	32.6	48.8#
54	53.2	45.4	68.0

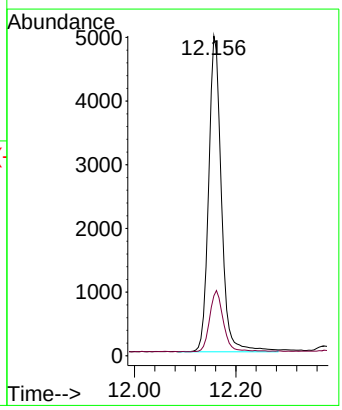


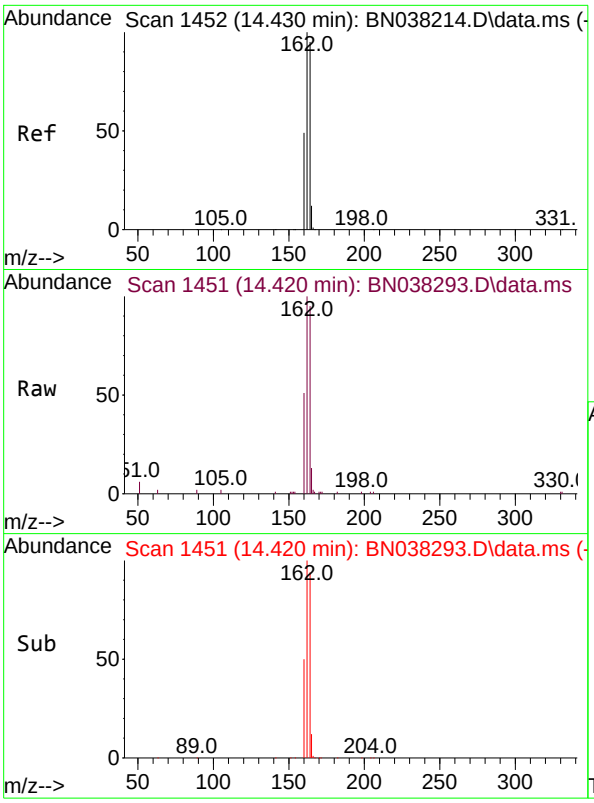


#11
2-Methylnaphthalene-d10
Concen: 0.294 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.010 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

Tgt Ion:152 Resp: 8679

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.7	25.1



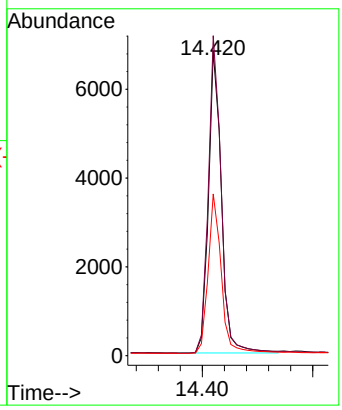


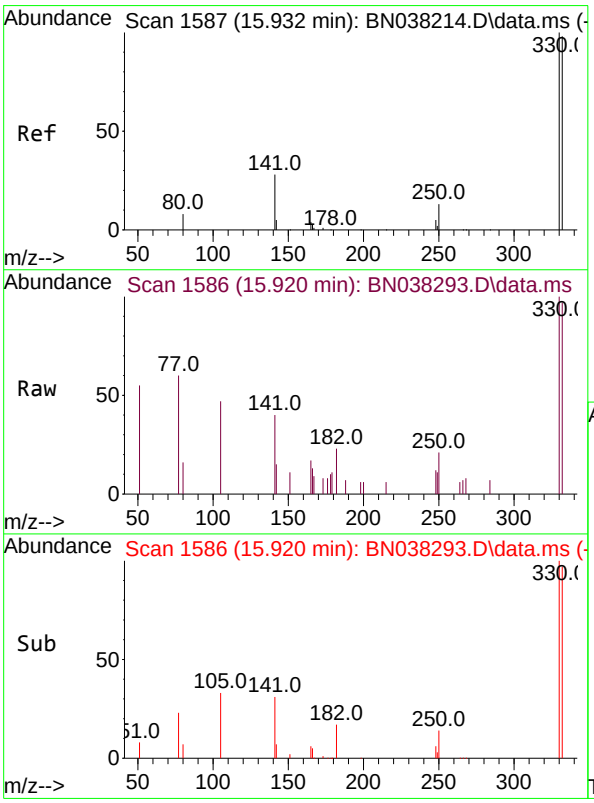
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

Instrument :
BNA_N
ClientSampleId :
MW-04-12-120225

Tgt Ion:164 Resp: 11092

Ion	Ratio	Lower	Upper
164	100		
162	105.2	83.8	125.8
160	53.1	41.6	62.4

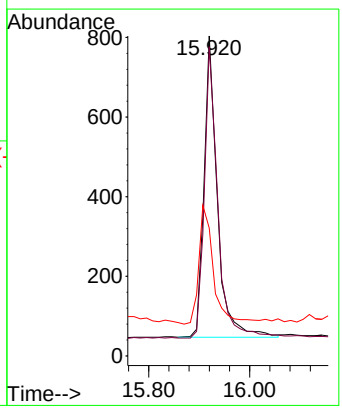


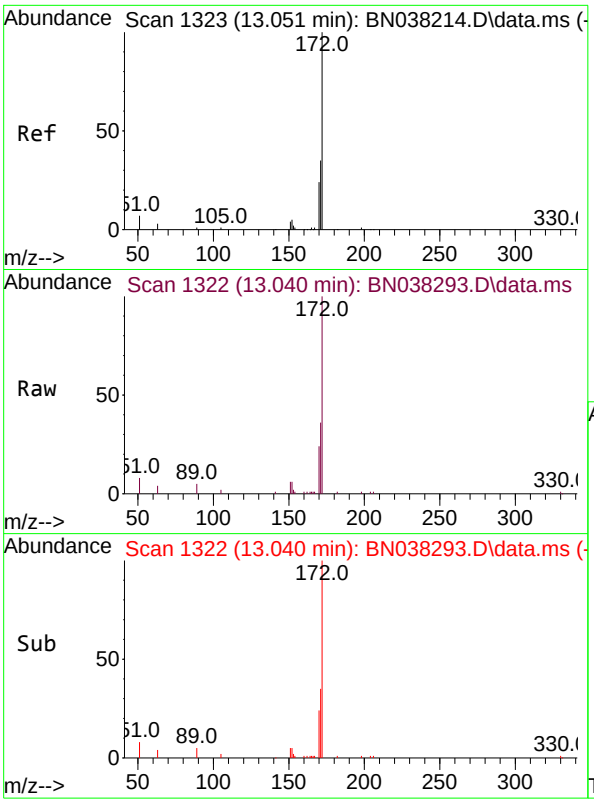


#14
2,4,6-Tribromophenol
Concen: 0.396 ng
RT: 15.920 min Scan# 1586
Delta R.T. -0.012 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

Tgt Ion:330 Resp: 1383

Ion	Ratio	Lower	Upper
330	100		
332	97.4	77.8	116.6
141	43.6	33.0	49.4



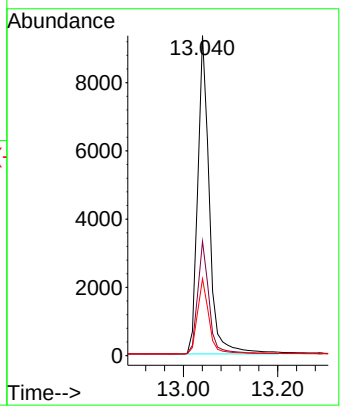


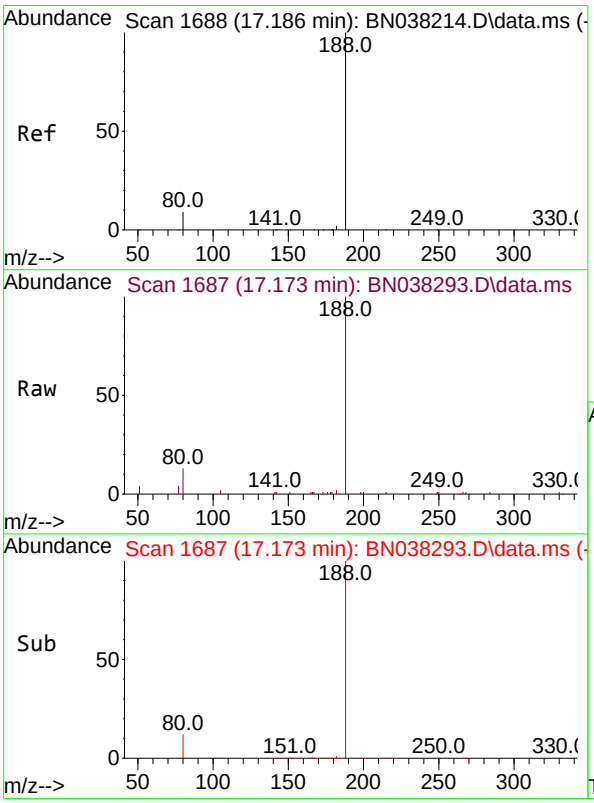
#15
2-Fluorobiphenyl
Concen: 0.338 ng
RT: 13.040 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

Instrument :
BNA_N
ClientSampleId :
MW-04-12-120225

Tgt Ion:172 Resp: 14466

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.1	42.1
170	24.0	19.1	28.7

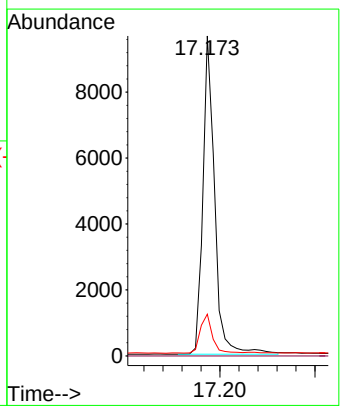


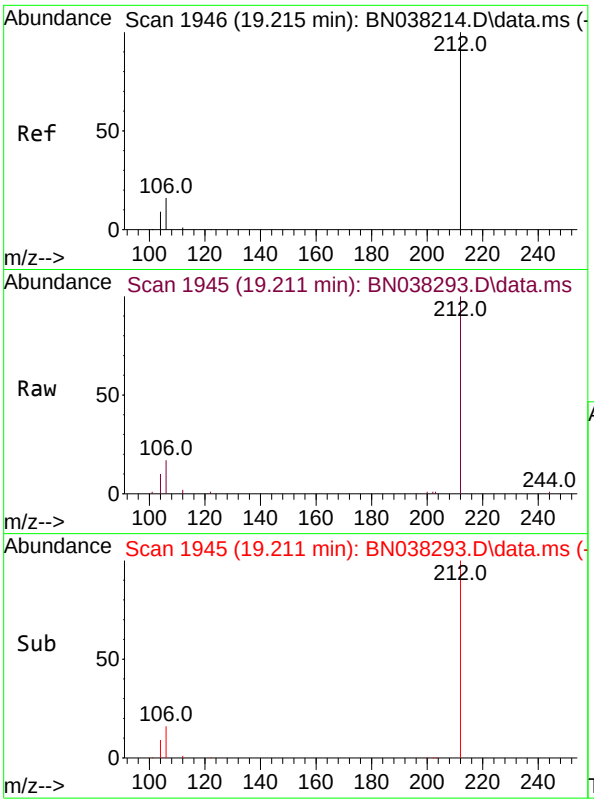


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.173 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

Tgt Ion:188 Resp: 16516

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.0	7.7	11.5#



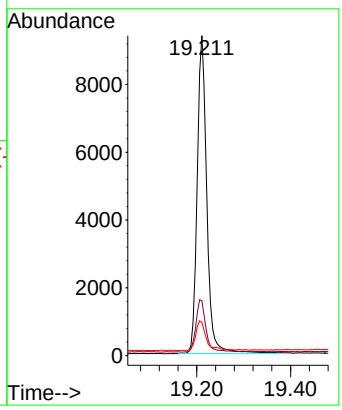


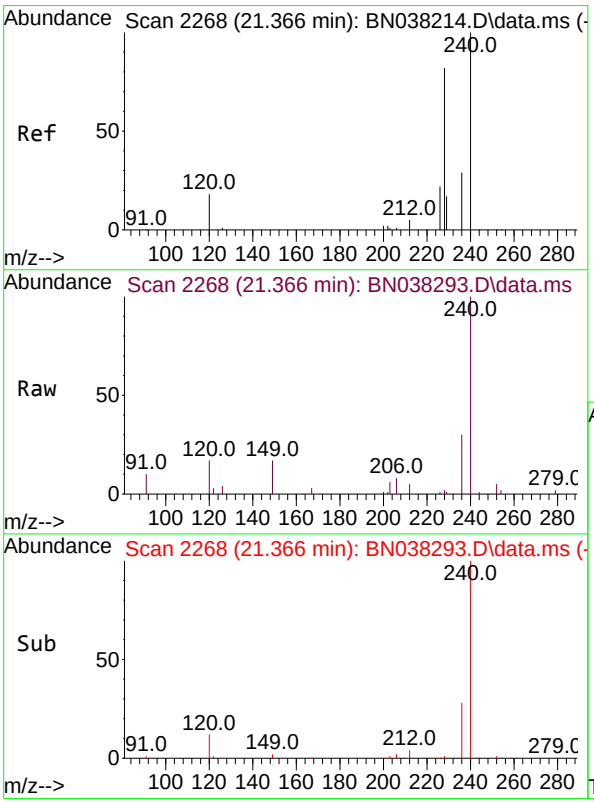
#27
Fluoranthene-d10
Concen: 0.374 ng
RT: 19.211 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

Instrument :
BNA_N
ClientSampleId :
MW-04-12-120225

Tgt Ion:212 Resp: 13393

Ion	Ratio	Lower	Upper
212	100		
106	17.2	12.7	19.1
104	10.2	7.3	10.9

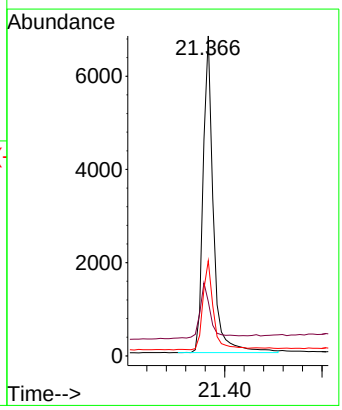


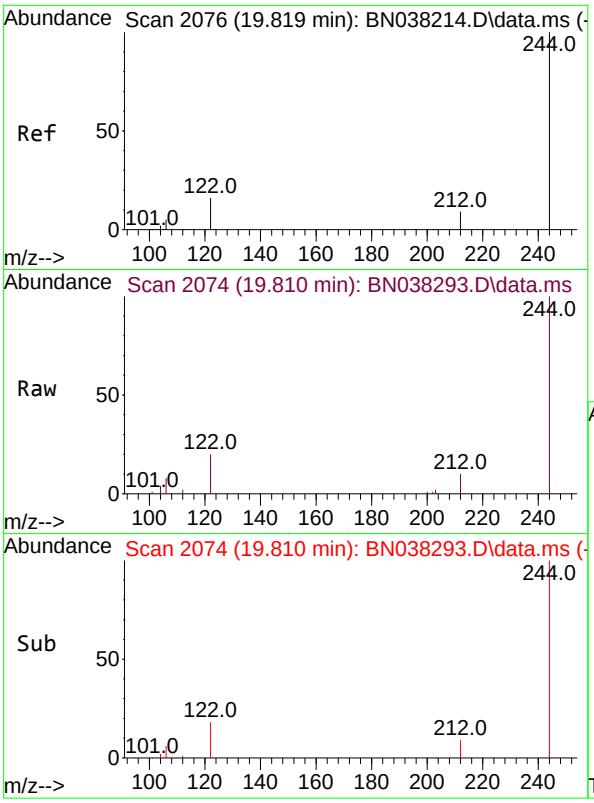


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.366 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

Tgt Ion:240 Resp: 9936

Ion	Ratio	Lower	Upper
240	100		
120	17.0	18.1	27.1#
236	29.7	24.2	36.4



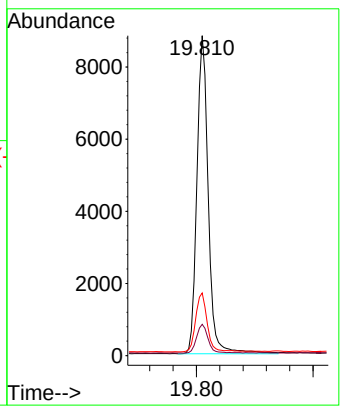


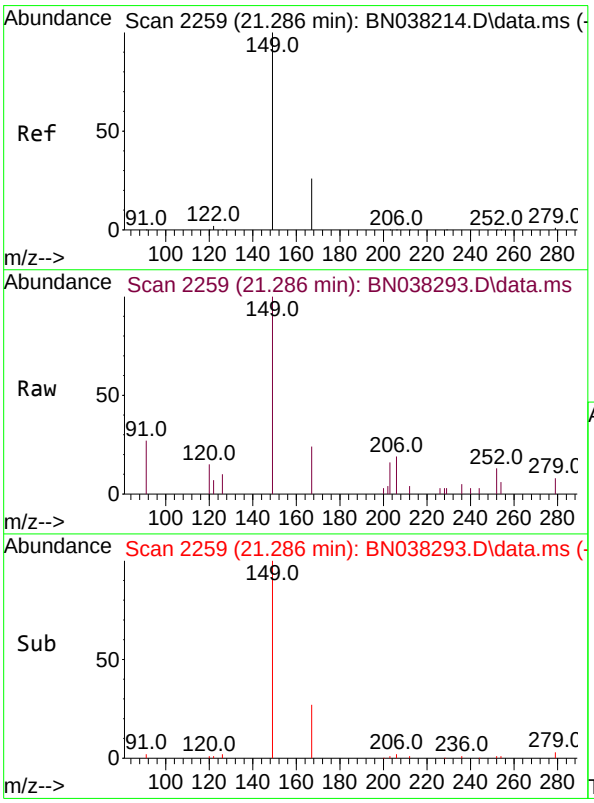
#31
Terphenyl-d14
Concen: 0.518 ng
RT: 19.810 min Scan# 20
Delta R.T. -0.009 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

Instrument :
BNA_N
ClientSampleId :
MW-04-12-120225

Tgt Ion:244 Resp: 11887

Ion	Ratio	Lower	Upper
244	100		
212	9.8	7.7	11.5
122	19.6	13.6	20.4

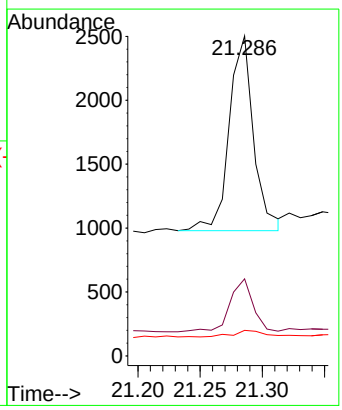


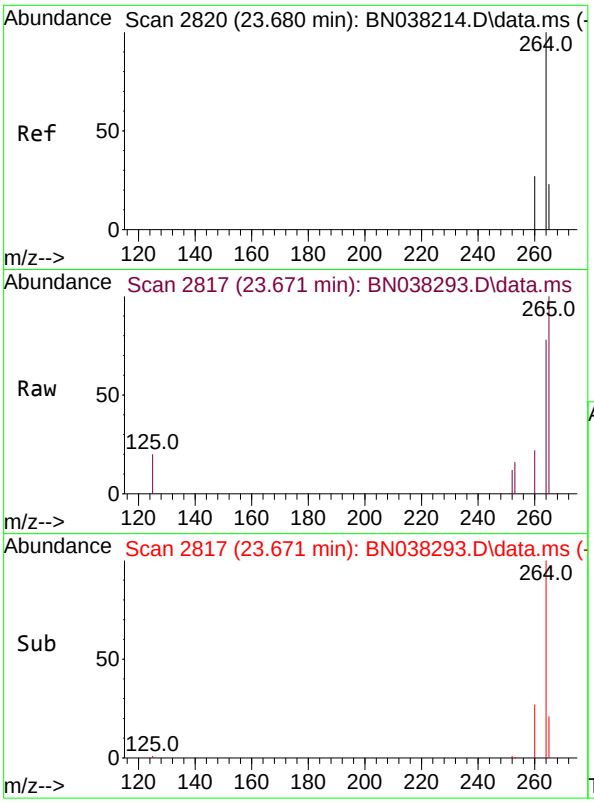


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.113 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

Tgt Ion:149 Resp: 2078

Ion	Ratio	Lower	Upper
149	100		
167	25.8	20.7	31.1
279	5.1	2.5	3.7#



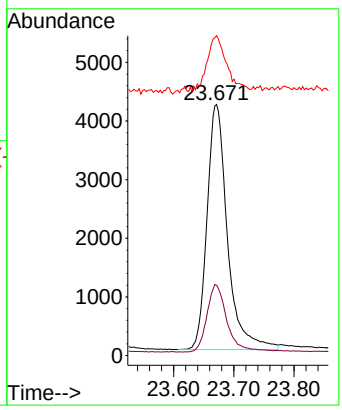


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.671 min Scan# 28
Delta R.T. -0.009 min
Lab File: BN038293.D
Acq: 06 Dec 2025 03:21

Instrument :
BNA_N
ClientSampleId :
MW-04-12-120225

Tgt Ion:264 Resp: 9902

Ion	Ratio	Lower	Upper
264	100		
260	28.0	21.7	32.5
265	127.4	98.0	147.0



Raw Data: **BN038294.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	12/02/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	12/02/25
Client Sample ID:	MW-13B-47.5-120225	SDG No.:	Q3756
Lab Sample ID:	Q3756-07	Matrix:	Water
Analytical Method:	SW8270ESIM Level: LOW	% Solid:	0
Sample Wt/Vol:	1000 mL Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	3510C Prep Date: 12/05/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
123-91-1	1,4-Dioxane	0.070	U	1	0.070	0.20	ug/L	12/06/25 03:58	PB170838
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.29			30 (47) - 150 (106)	74%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.34			30 (54) - 150 (157)	84%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.31			30 (56) - 130 (116)	77%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.33			30 (50) - 130 (126)	82%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.46			30 (54) - 130 (175)	115%	SPK: 0.4		
INTERNAL STANDARDS		**Area Count**							
3855-82-1	1,4-Dichlorobenzene-d4	7020							
1146-65-2	Naphthalene-d8	21500							
15067-26-2	Acenaphthene-d10	11500							
1517-22-2	Phenanthrene-d10	17300							
1719-03-5	Chrysene-d12	10200							
1520-96-3	Perylene-d12	10400							

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

Sample Results: **BN038294.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
Data File : BN038294.D
Acq On : 06 Dec 2025 03:58
Operator : RC/JU
Sample : Q3756-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 06 05:26:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.760	152	7020	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	21534	0.400	ng	-0.01
13) Acenaphthene-d10	14.420	164	11522	0.400	ng	-0.01
19) Phenanthrene-d10	17.173	188	17319	0.400	ng	#-0.01
29) Chrysene-d12	21.366	240	10242	0.400	ng	# 0.00
35) Perylene-d12	23.668	264	10445	0.400	ng	-0.01
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	2446	0.149	ng	0.00
5) Phenol-d6	6.930	99	1900	0.093	ng	0.00
8) Nitrobenzene-d5	8.907	82	5325	0.309	ng	-0.01
11) 2-Methylnaphthalene-d10	12.156	152	8984	0.294	ng	-0.01
14) 2,4,6-Tribromophenol	15.920	330	1744	0.481	ng	-0.01
15) 2-Fluorobiphenyl	13.040	172	14635	0.329	ng	-0.01
27) Fluoranthene-d10	19.211	212	12616	0.336	ng	0.00
31) Terphenyl-d14	19.810	244	10938	0.462	ng	0.00
Target Compounds						Qvalue
21) 4-Bromophenyl-phenylether	16.366	248	303	0.025	ng	# 80
24) Pentachlorophenol	16.826	266	220	0.054	ng	95
25) Phenanthrene	17.211	178	1664m	0.031	ng	
28) Fluoranthene	19.243	202	1431	0.027	ng	# 71
30) Pyrene	19.606	202	1342	0.026	ng	96
32) Benzo(a)anthracene	21.348	228	1081	0.031	ng	# 85
33) Chrysene	21.402	228	1156	0.028	ng	# 85
34) Bis(2-ethylhexyl)phtha...	21.286	149	4084	0.215	ng	# 99
36) Indeno(1,2,3-cd)pyrene	26.022	276	1497	0.031	ng	95
37) Benzo(b)fluoranthene	22.970	252	1334	0.031	ng	# 1
38) Benzo(k)fluoranthene	23.016	252	1179	0.026	ng	# 1
39) Benzo(a)pyrene	23.569	252	876	0.024	ng	# 1
40) Dibenzo(a,h)anthracene	26.034	278	1101	0.030	ng	# 17
41) Benzo(g,h,i)perylene	26.732	276	1358	0.031	ng	# 58

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

Sample Results: **BN038294.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
Data File : BN038294.D
Acq On : 06 Dec 2025 03:58
Operator : RC/JU
Sample : Q3756-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Quant Time: Dec 06 05:26:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/08/2025
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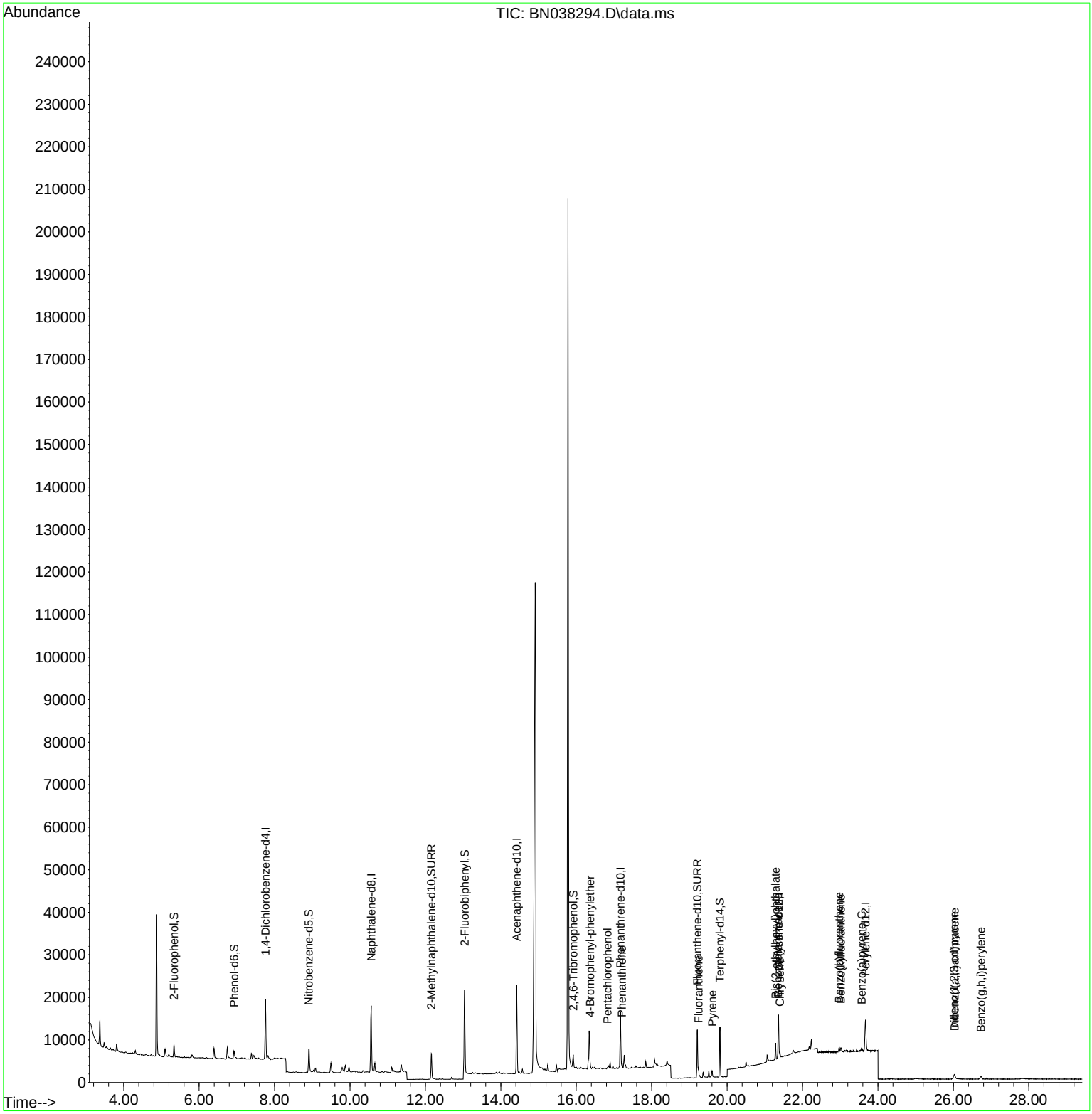
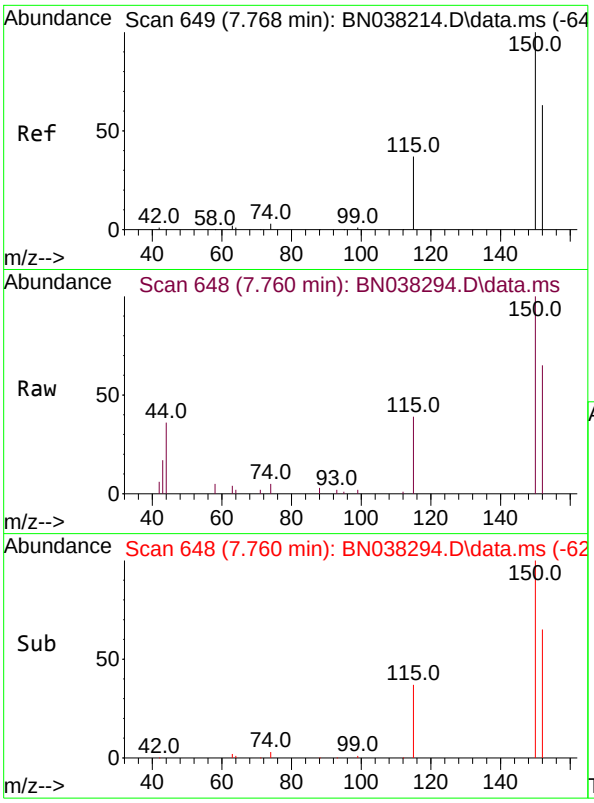
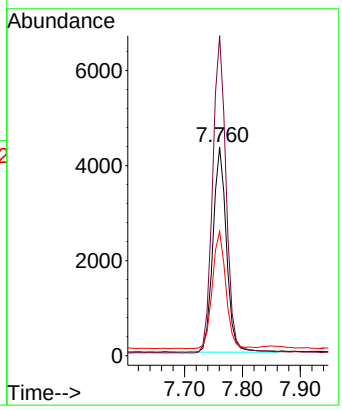




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.760 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:152 Resp: 702

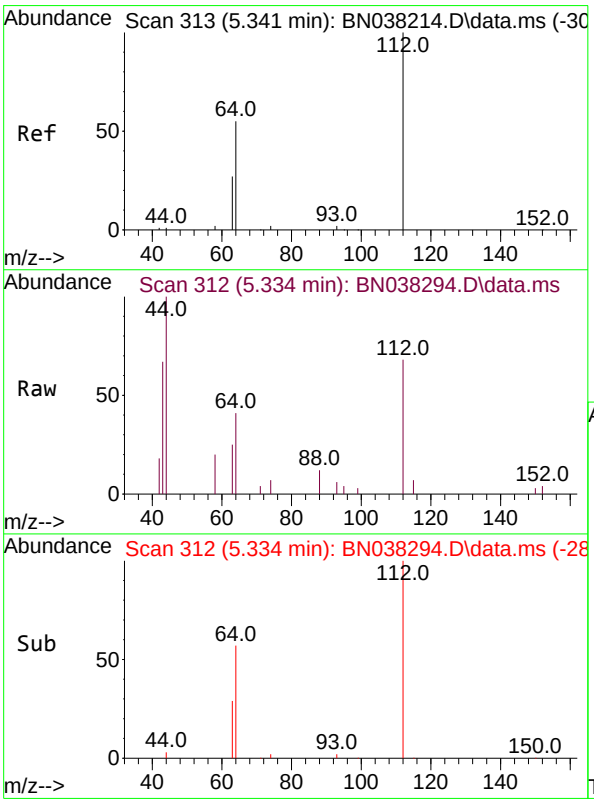
Ion	Ratio	Lower	Upper
152	100		
150	153.6	125.3	187.9
115	59.6	49.0	73.4



Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225

Manual Integrations
APPROVED

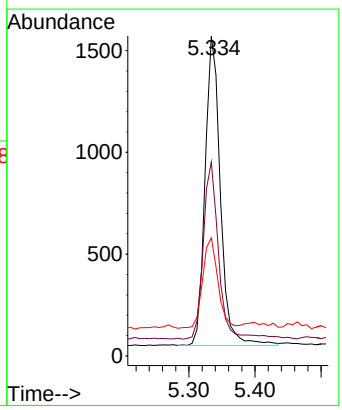
Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025

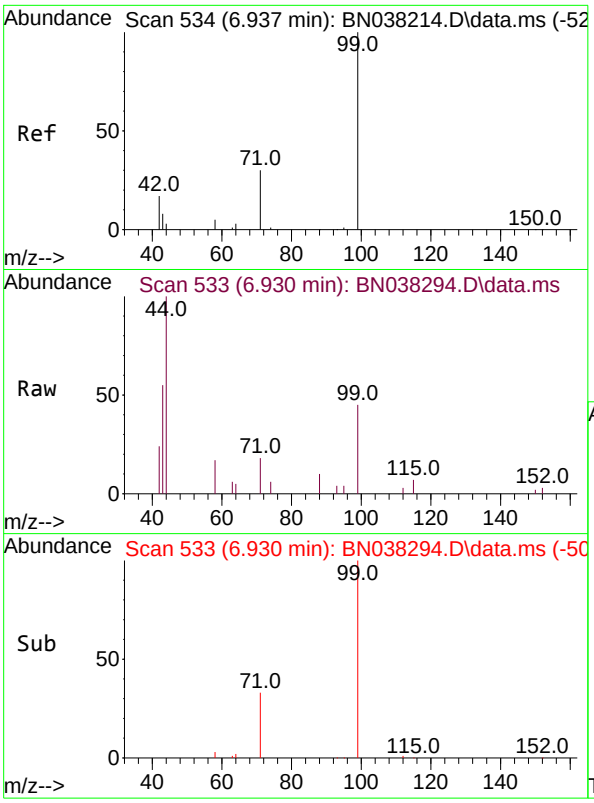


#4
2-Fluorophenol
Concen: 0.149 ng
RT: 5.334 min Scan# 312
Delta R.T. -0.007 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:112 Resp: 2446

Ion	Ratio	Lower	Upper
112	100		
64	58.1	45.0	67.4
63	29.8	23.2	34.8

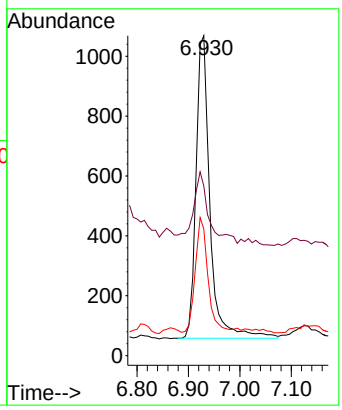




#5
Phenol-d6
Concen: 0.093 ng
RT: 6.930 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion: 99 Resp: 190

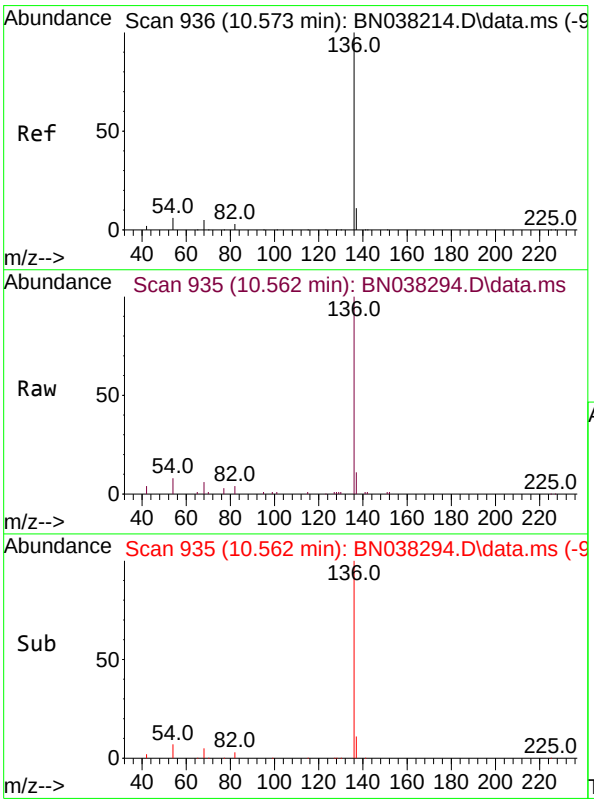
Ion	Ratio	Lower	Upper
99	100		
42	26.3	17.0	25.6
71	34.4	25.4	38.2



Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225

Manual Integrations
APPROVED

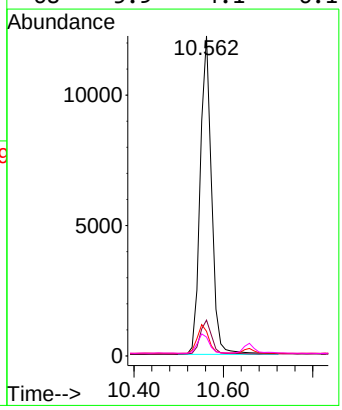
Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025

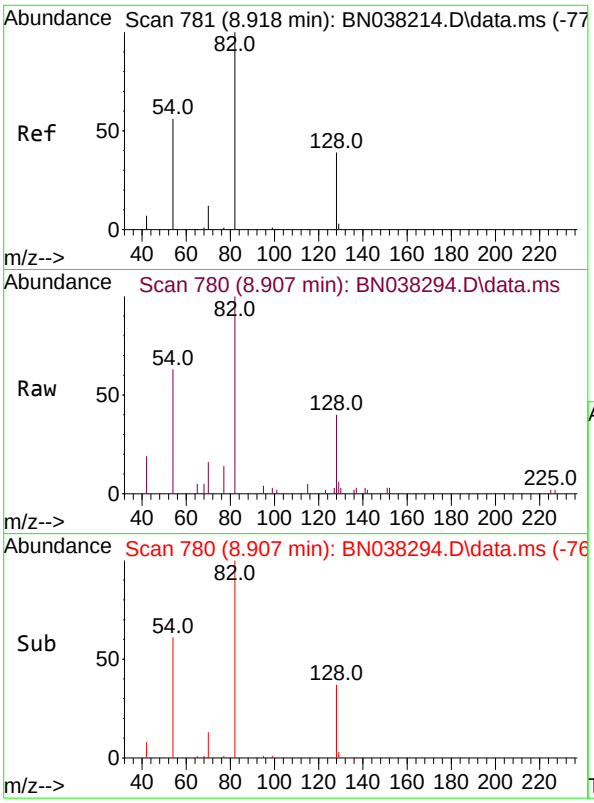


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 935
Delta R.T. -0.011 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:136 Resp: 21534

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	7.7	5.4	8.0
68	5.9	4.1	6.1





#8
Nitrobenzene-d5
Concen: 0.309 ng
RT: 8.907 min Scan# 78
Delta R.T. -0.011 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

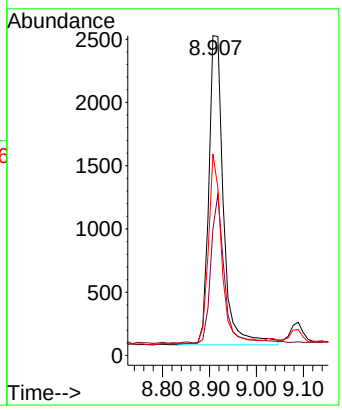
Tgt Ion: 82 Resp: 532

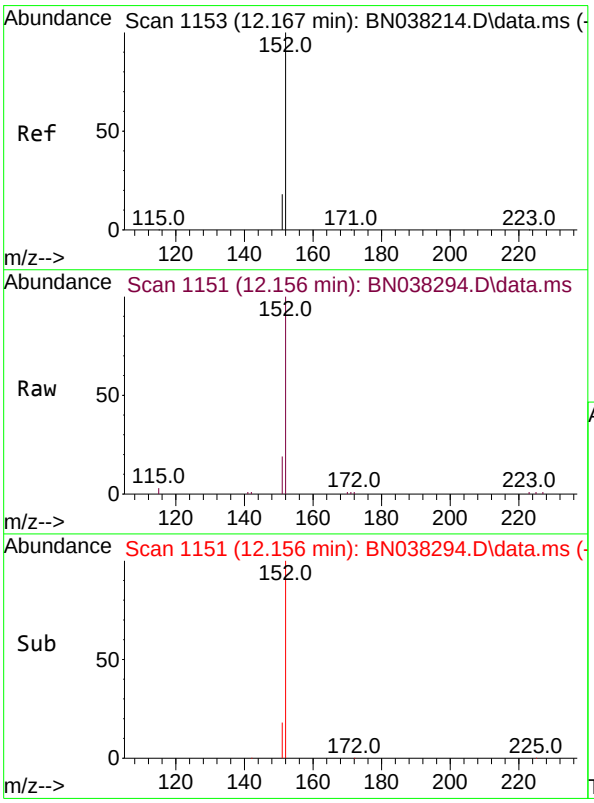
Ion	Ratio	Lower	Upper
82	100		
128	39.6	32.6	48.8
54	63.0	45.4	68.0

Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025

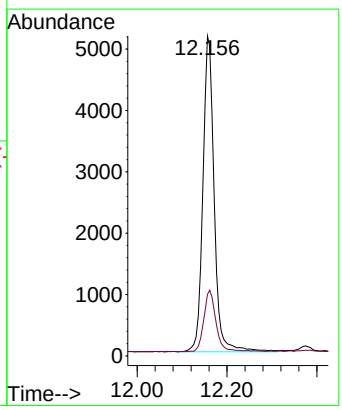


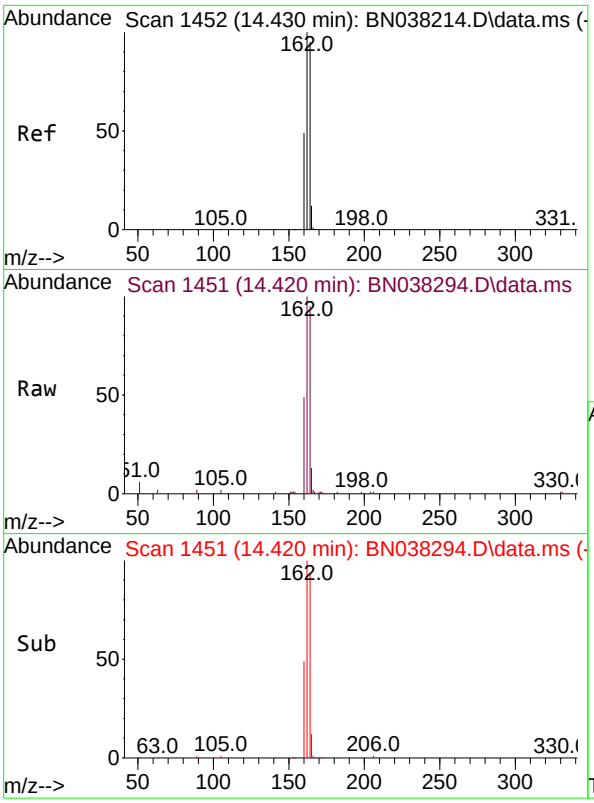


#11
2-Methylnaphthalene-d10
Concen: 0.294 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.010 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:152 Resp: 8984

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.7	25.1

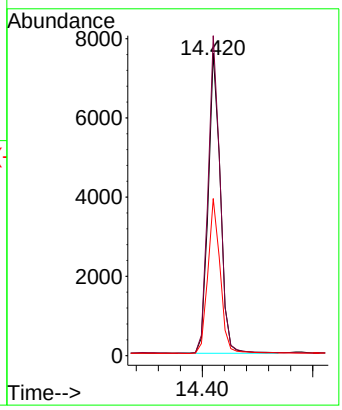




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:164 Resp: 1152

Ion	Ratio	Lower	Upper
164	100		
162	105.8	83.8	125.8
160	51.9	41.6	62.4



Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225

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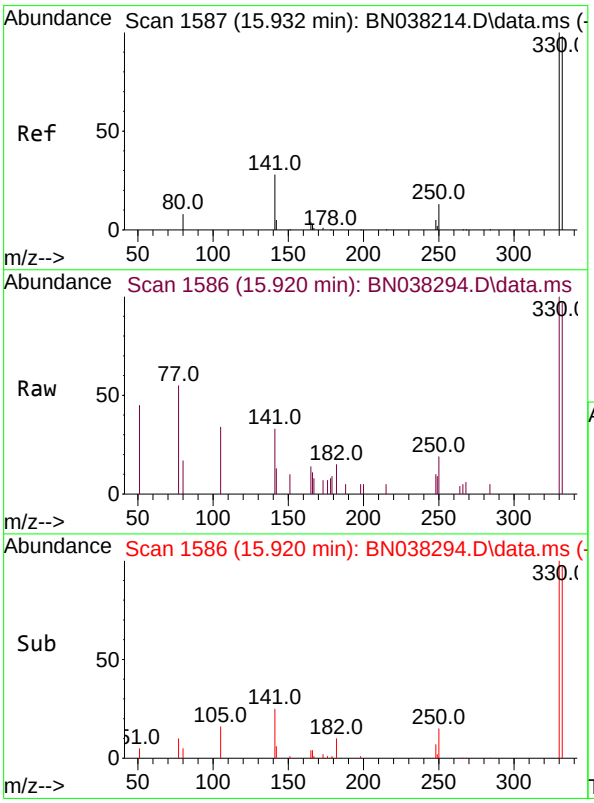
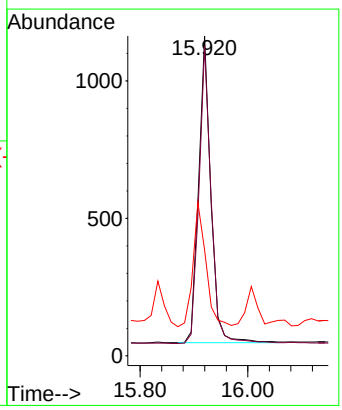
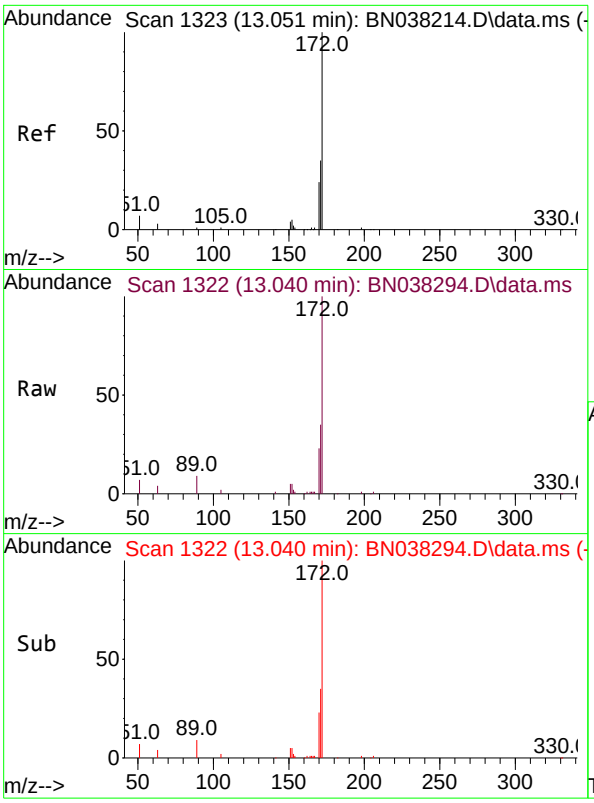


#14
2,4,6-Tribromophenol
Concen: 0.481 ng
RT: 15.920 min Scan# 1586
Delta R.T. -0.012 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:330 Resp: 1744

Ion	Ratio	Lower	Upper
330	100		
332	97.4	77.8	116.6
141	42.9	33.0	49.4

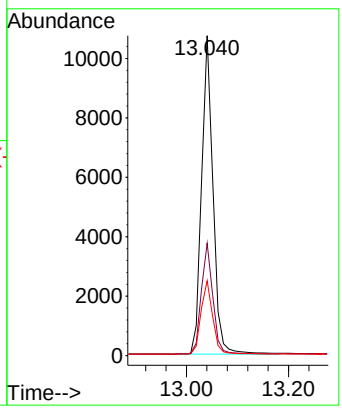




#15
2-Fluorobiphenyl
Concen: 0.329 ng
RT: 13.040 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:172 Resp: 1463

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.1	42.1
170	23.4	19.1	28.7



Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225

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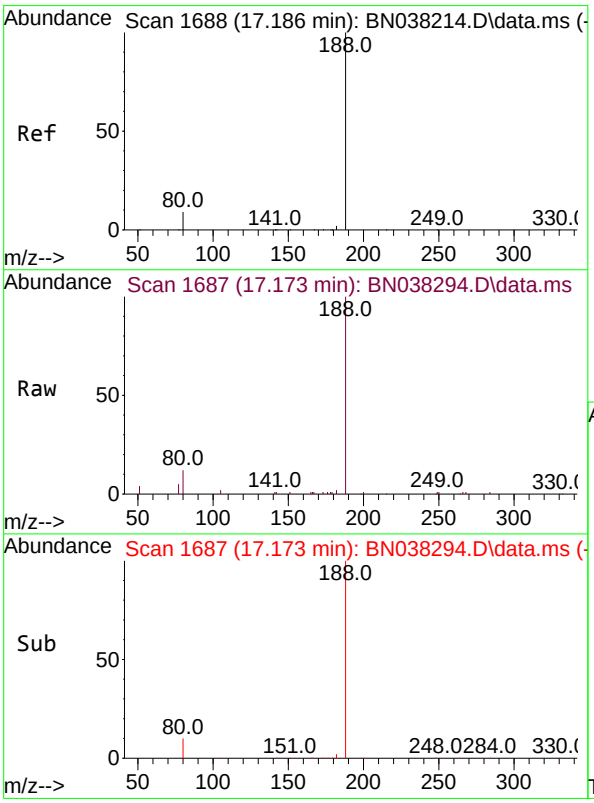
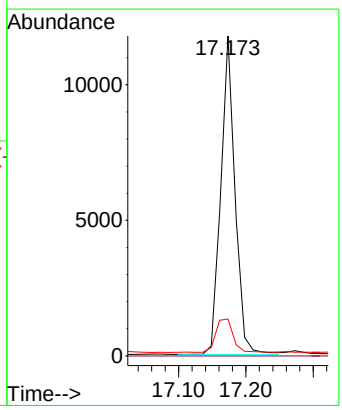
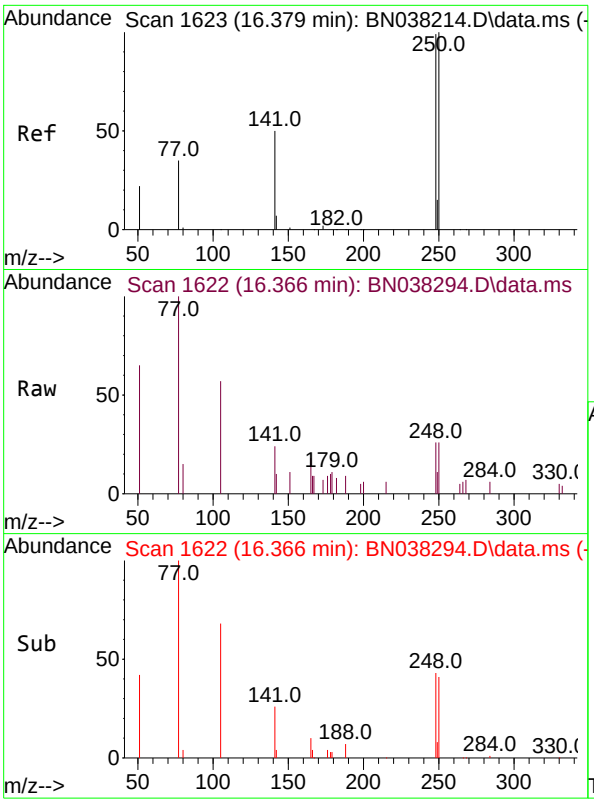


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.173 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:188 Resp: 17319

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.5	7.7	11.5#





#21
4-Bromophenyl-phenylether
Concen: 0.025 ng
RT: 16.366 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225

Tgt Ion:248 Resp: 30

Ion	Ratio	Lower	Upper
248	100		
250	100.4	80.8	121.2
141	91.7	41.0	61.6#

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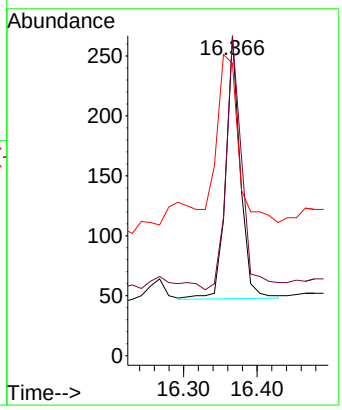
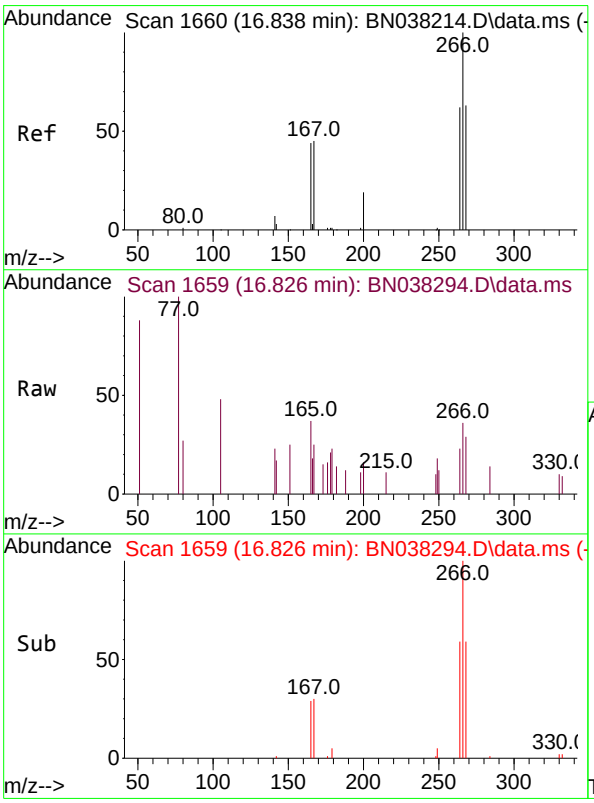
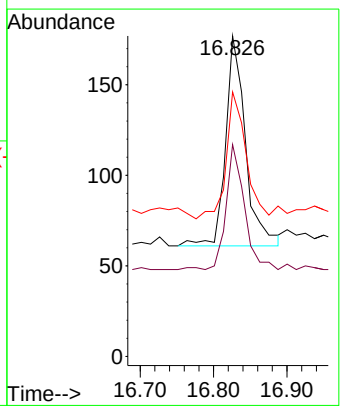


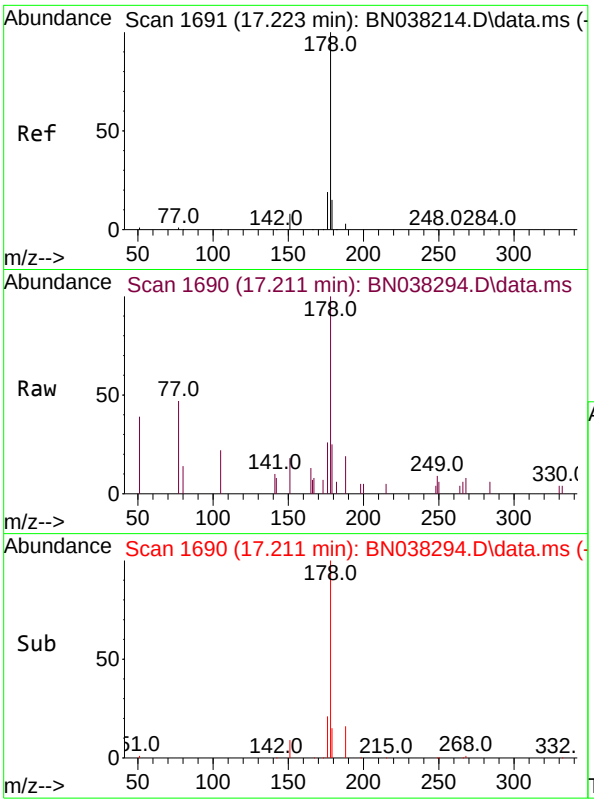


#24
Pentachlorophenol
Concen: 0.054 ng
RT: 16.826 min Scan# 1659
Delta R.T. -0.012 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:266 Resp: 220

Ion	Ratio	Lower	Upper
266	100		
264	56.4	48.9	73.3
268	59.5	50.2	75.2

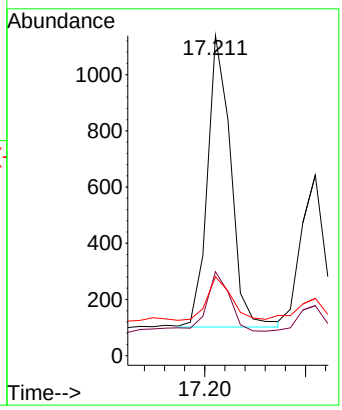




#25
Phenanthrene
Concen: 0.031 ng m
RT: 17.211 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:178 Resp: 166

Ion	Ratio	Lower	Upper
178	100		
176	10.2	15.3	22.9#
179	8.1	12.0	18.0#



Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225

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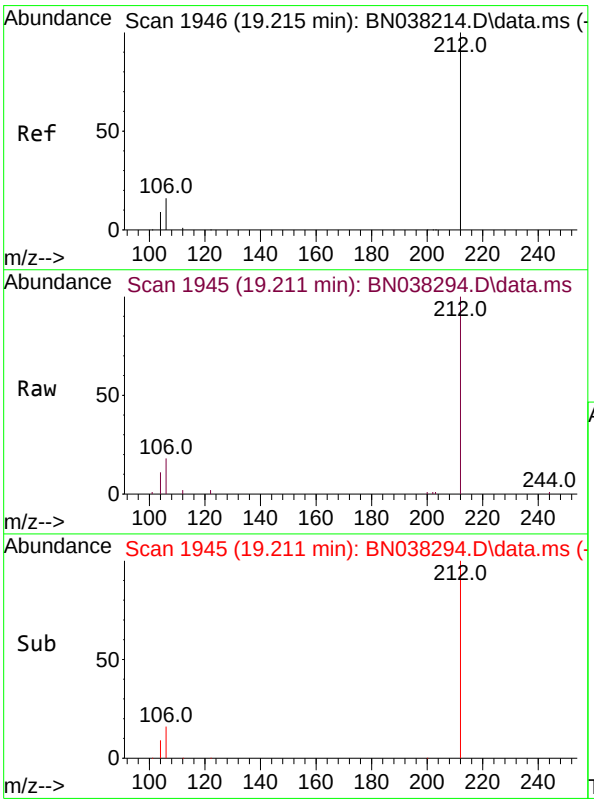
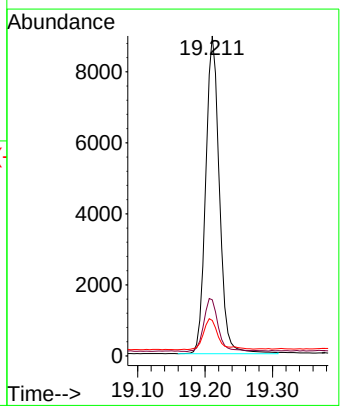
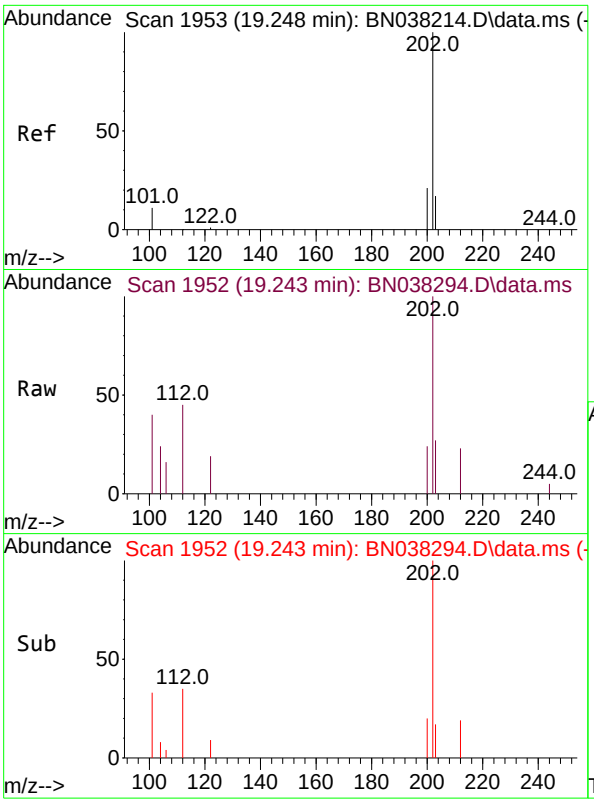


#27
Fluoranthene-d10
Concen: 0.336 ng
RT: 19.211 min Scan# 1945
Delta R.T. -0.005 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:212 Resp: 12616

Ion	Ratio	Lower	Upper
212	100		
106	17.7	12.7	19.1
104	10.7	7.3	10.9

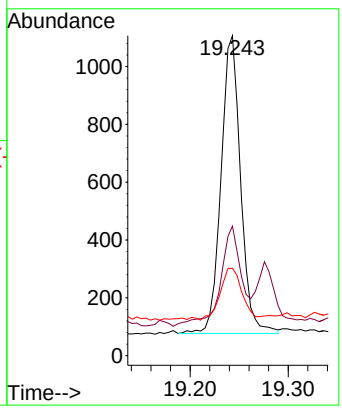




#28
Fluoranthene
Concen: 0.027 ng
RT: 19.243 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:202 Resp: 1431

Ion	Ratio	Lower	Upper
202	100		
101	36.2	9.8	14.6#
203	19.5	13.6	20.4



Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225

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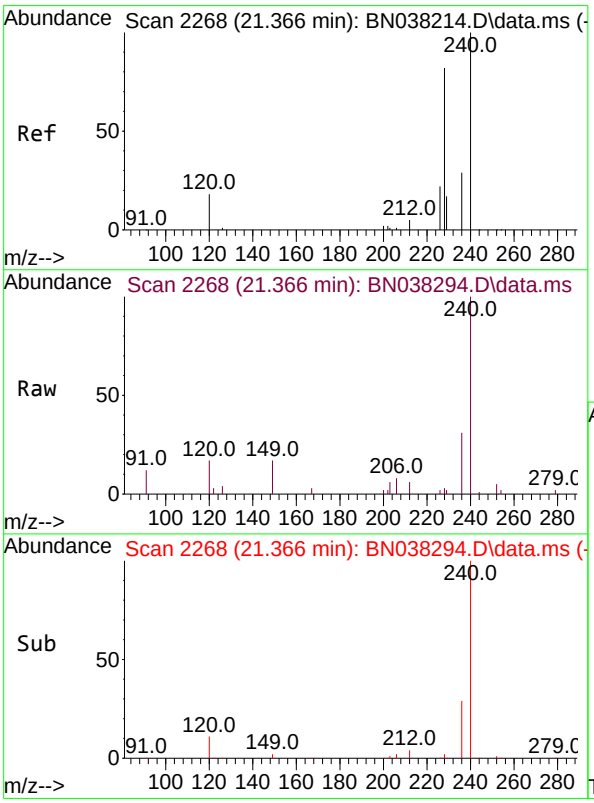
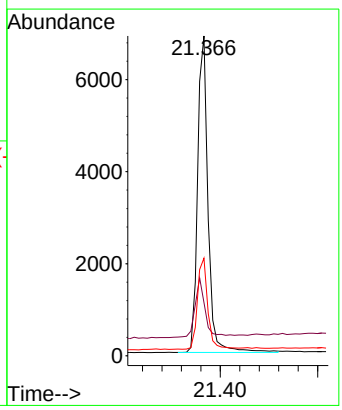
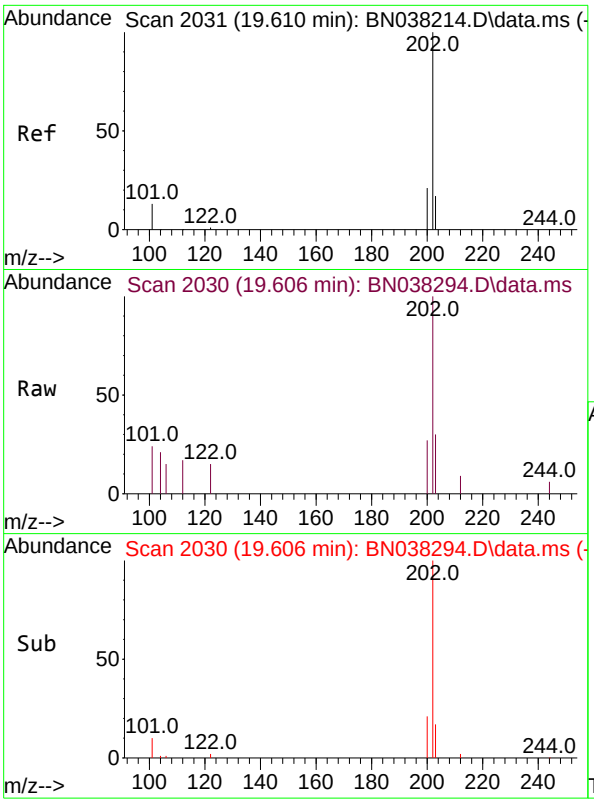


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.366 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:240 Resp: 10242

Ion	Ratio	Lower	Upper
240	100		
120	16.7	18.1	27.1#
236	30.5	24.2	36.4





#30
Pyrene
Concen: 0.026 ng
RT: 19.606 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:202 Resp: 134

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	21.5	14.4	21.6

Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225

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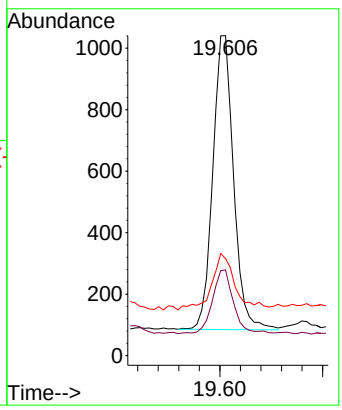
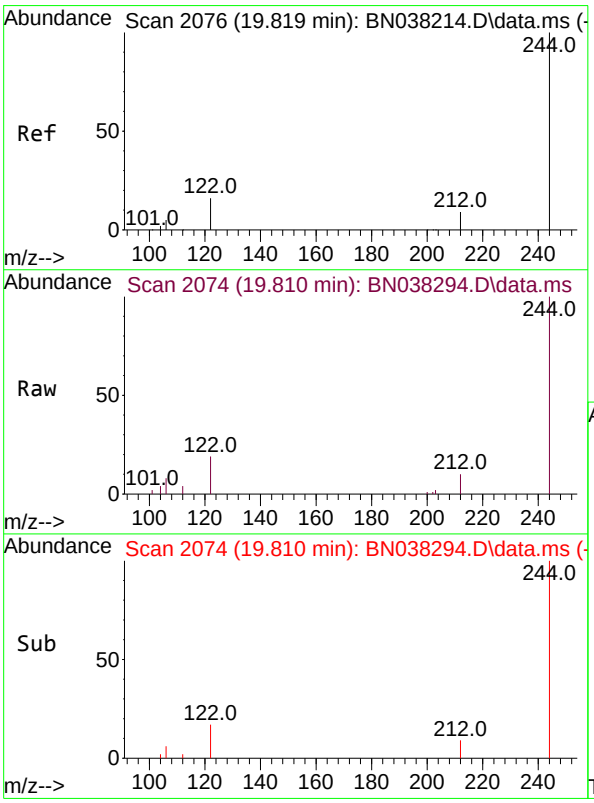
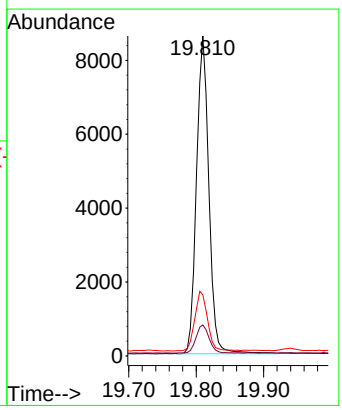


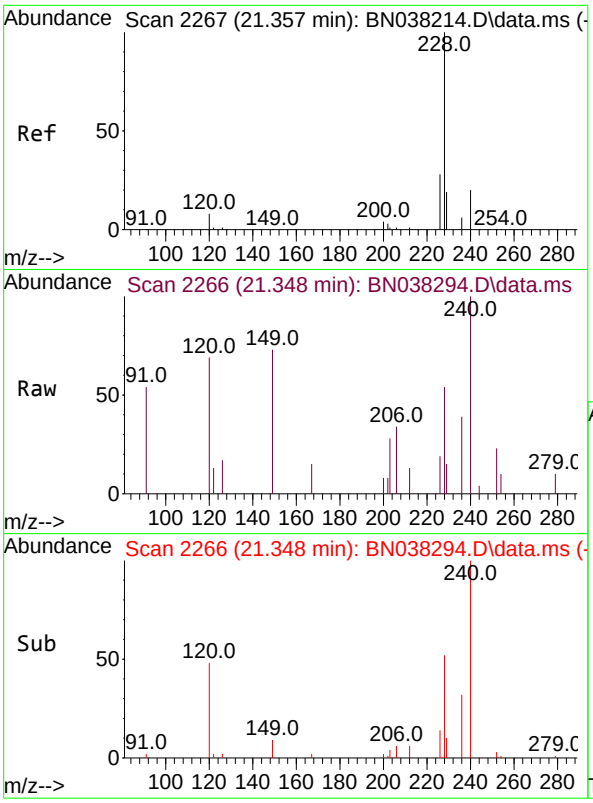


#31
Terphenyl-d14
Concen: 0.462 ng
RT: 19.810 min Scan# 2074
Delta R.T. -0.009 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:244 Resp: 10938

Ion	Ratio	Lower	Upper
244	100		
212	9.7	7.7	11.5
122	19.0	13.6	20.4





#32
Benzo(a)anthracene
Concen: 0.031 ng
RT: 21.348 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:228 Resp: 108

Ion	Ratio	Lower	Upper
228	100		
226	34.7	22.6	33.8#
229	28.7	15.8	23.8#

Instrument :
BNA_N
ClientSampleId :
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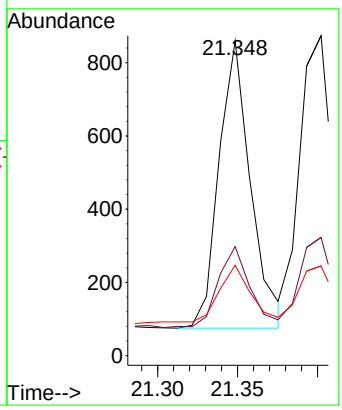
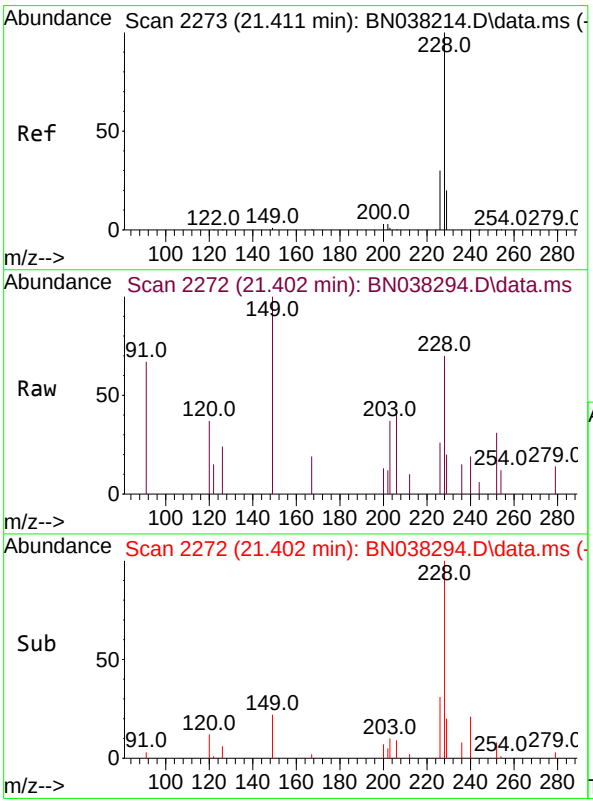
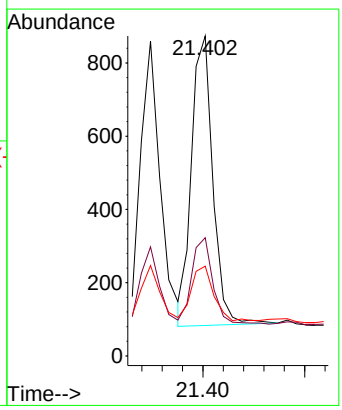


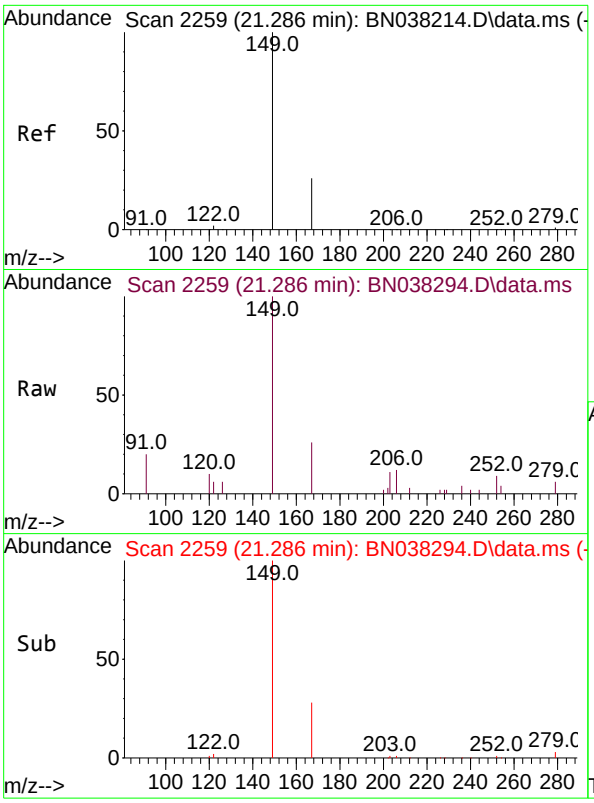


#33
Chrysene
Concen: 0.028 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.009 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:228 Resp: 1156

Ion	Ratio	Lower	Upper
228	100		
226	37.0	23.8	35.8#
229	28.0	16.1	24.1#





#34
Bis(2-ethylhexyl)phthalate
Concen: 0.215 ng
RT: 21.286 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:149 Resp: 408

Ion	Ratio	Lower	Upper
149	100		
167	26.1	20.7	31.1
279	4.0	2.5	3.7#

Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225

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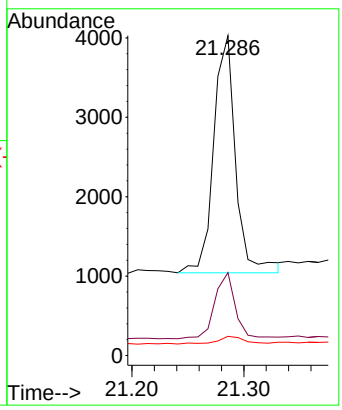
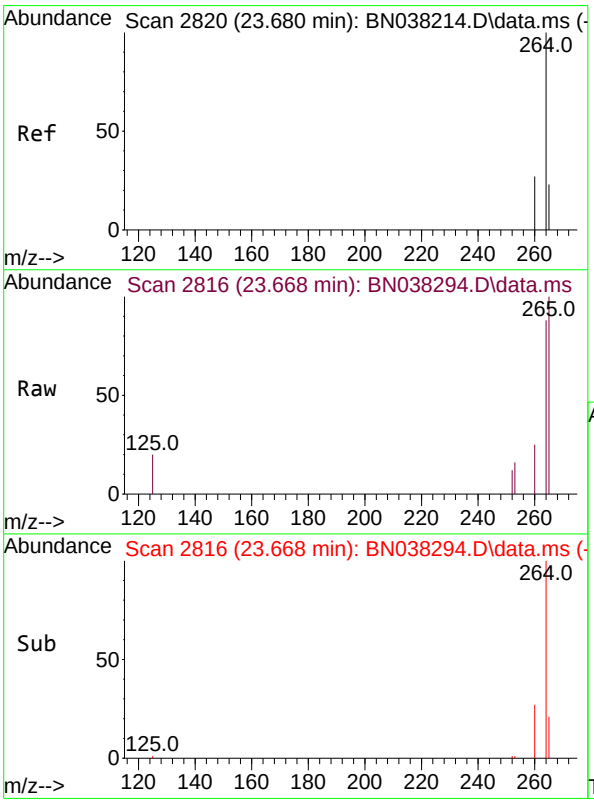
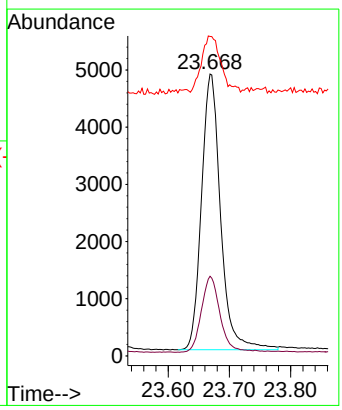


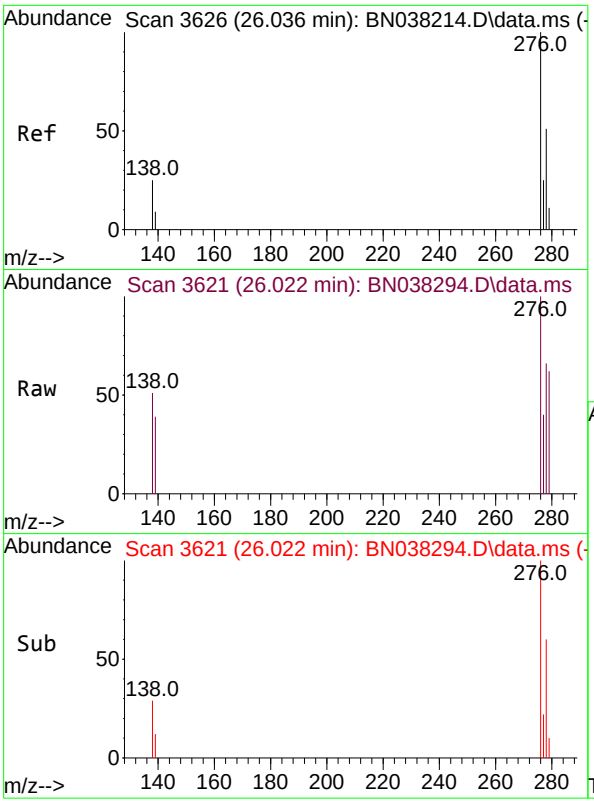


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.668 min Scan# 2816
Delta R.T. -0.012 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:264 Resp: 10445

Ion	Ratio	Lower	Upper
264	100		
260	28.2	21.7	32.5
265	113.3	98.0	147.0

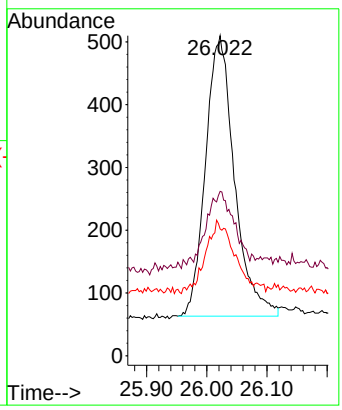




#36
Indeno(1,2,3-cd)pyrene
Concen: 0.031 ng
RT: 26.022 min Scan# 3
Delta R.T. -0.015 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:276 Resp: 149

Ion	Ratio	Lower	Upper
276	100		
138	24.0	21.4	32.2
277	25.7	19.1	28.7



Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225

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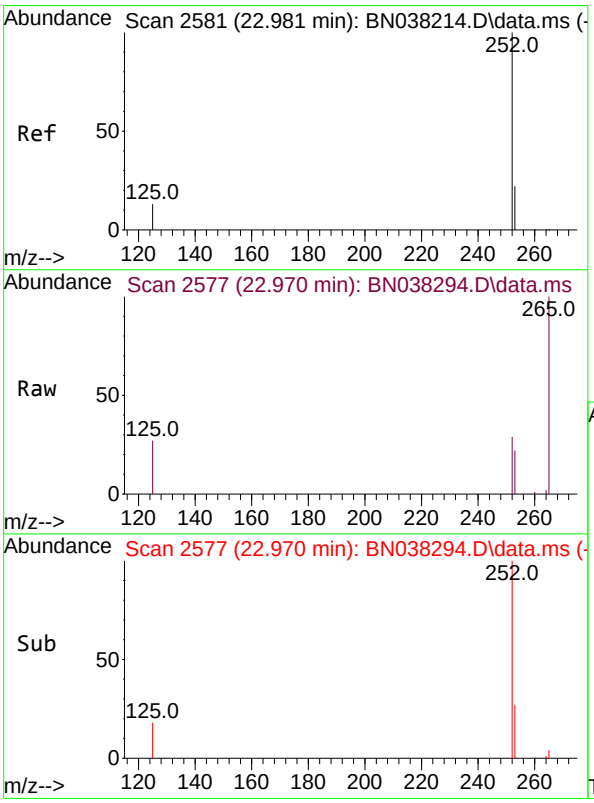
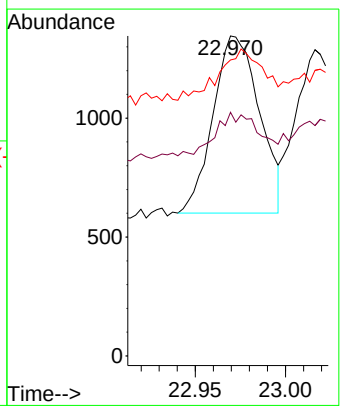
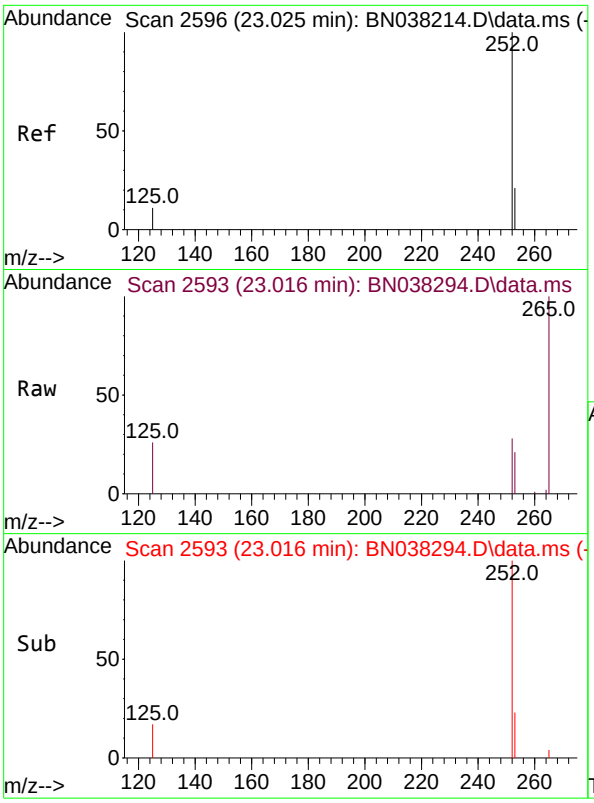


#37
Benzo(b)fluoranthene
Concen: 0.031 ng
RT: 22.970 min Scan# 2577
Delta R.T. -0.012 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:252 Resp: 1334

Ion	Ratio	Lower	Upper
252	100		
253	76.2	22.2	33.4#
125	92.5	18.0	27.0#





#38
Benzo(k)fluoranthene
Concen: 0.026 ng
RT: 23.016 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

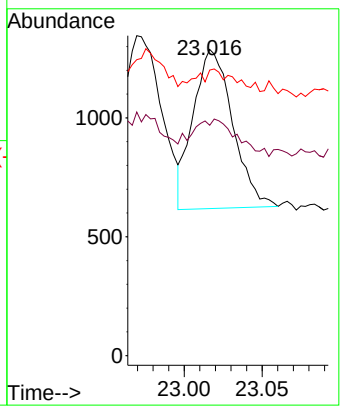
Tgt Ion:252 Resp: 117

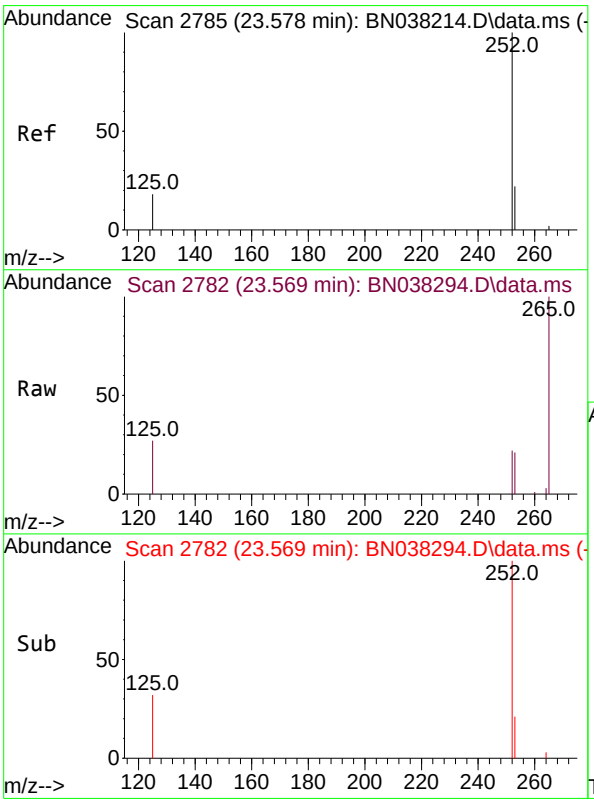
Ion	Ratio	Lower	Upper
252	100		
253	75.2	22.4	33.6#
125	93.2	17.5	26.3#

Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025

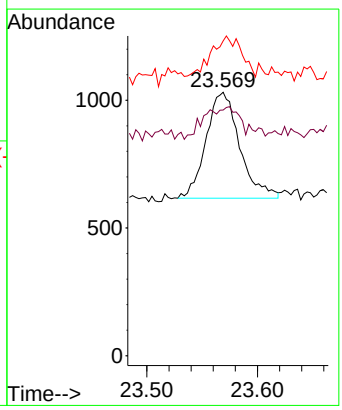


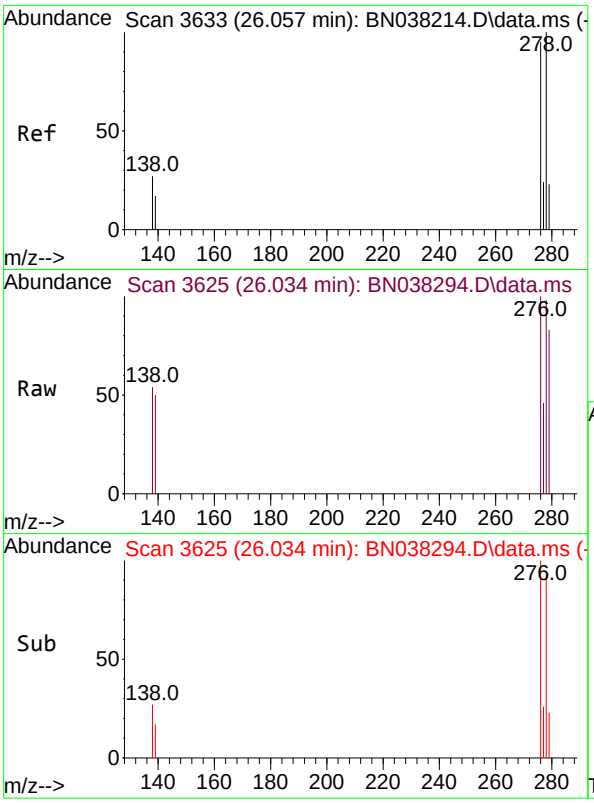


#39
Benzo(a)pyrene
Concen: 0.024 ng
RT: 23.569 min Scan# 2782
Delta R.T. -0.009 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:252 Resp: 876

Ion	Ratio	Lower	Upper
252	100		
253	93.3	25.3	37.9#
125	119.5	25.2	37.8#





#40
Dibenzo(a,h)anthracene
Concen: 0.030 ng
RT: 26.034 min Scan# 3
Delta R.T. -0.023 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

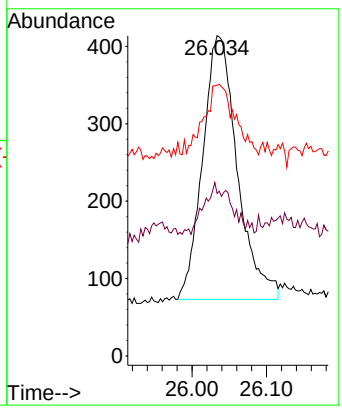
Instrument :
BNA_N
ClientSampleId :
MW-13B-47.5-120225

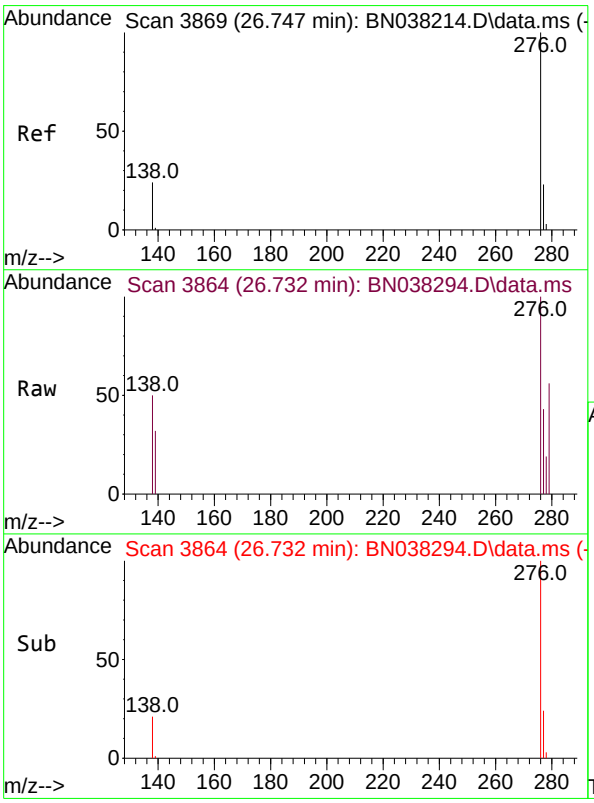
Tgt Ion:278 Resp: 110

Ion	Ratio	Lower	Upper
278	100		
139	50.7	17.6	26.4#
279	84.5	24.2	36.4#

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025

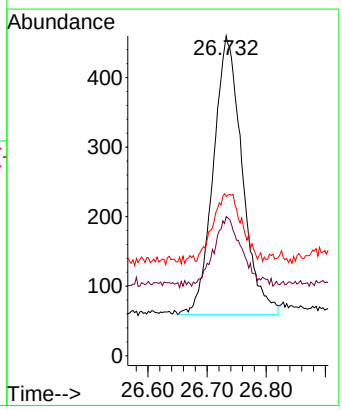




#41
Benzo(g,h,i)perylene
Concen: 0.031 ng
RT: 26.732 min Scan# 3864
Delta R.T. -0.015 min
Lab File: BN038294.D
Acq: 06 Dec 2025 03:58

Tgt Ion:276 Resp: 1358

Ion	Ratio	Lower	Upper
276	100		
277	43.5	20.2	30.2#
138	49.8	20.8	31.2#



Raw Data: **BN038295.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	12/02/25
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	12/02/25
Client Sample ID:	EB01-120225	SDG No.:	Q3756
Lab Sample ID:	Q3756-09	Matrix:	Water
Analytical Method:	SW8270ESIM Level: LOW	% Solid:	0
Sample Wt/Vol:	950 mL Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	3510C Prep Date: 12/05/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
123-91-1	1,4-Dioxane	0.070	U	1	0.070	0.21	ug/L	12/06/25 04:35	PB170838
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.29			30 (47) - 150 (106)	73%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.36			30 (54) - 150 (157)	90%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.33			30 (56) - 130 (116)	81%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.32			30 (50) - 130 (126)	81%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.45			30 (54) - 130 (175)	113%	SPK: 0.4		
INTERNAL STANDARDS		**Area Count**							
3855-82-1	1,4-Dichlorobenzene-d4	6960							
1146-65-2	Naphthalene-d8	20000							
15067-26-2	Acenaphthene-d10	11000							
1517-22-2	Phenanthrene-d10	16200							
1719-03-5	Chrysene-d12	10600							
1520-96-3	Perylene-d12	11200							

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\BN120625\
Data File : BN038295.D
Acq On : 06 Dec 2025 04:35
Operator : RC/JU
Sample : Q3756-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EB01-120225

Quant Time: Dec 06 05:26:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration

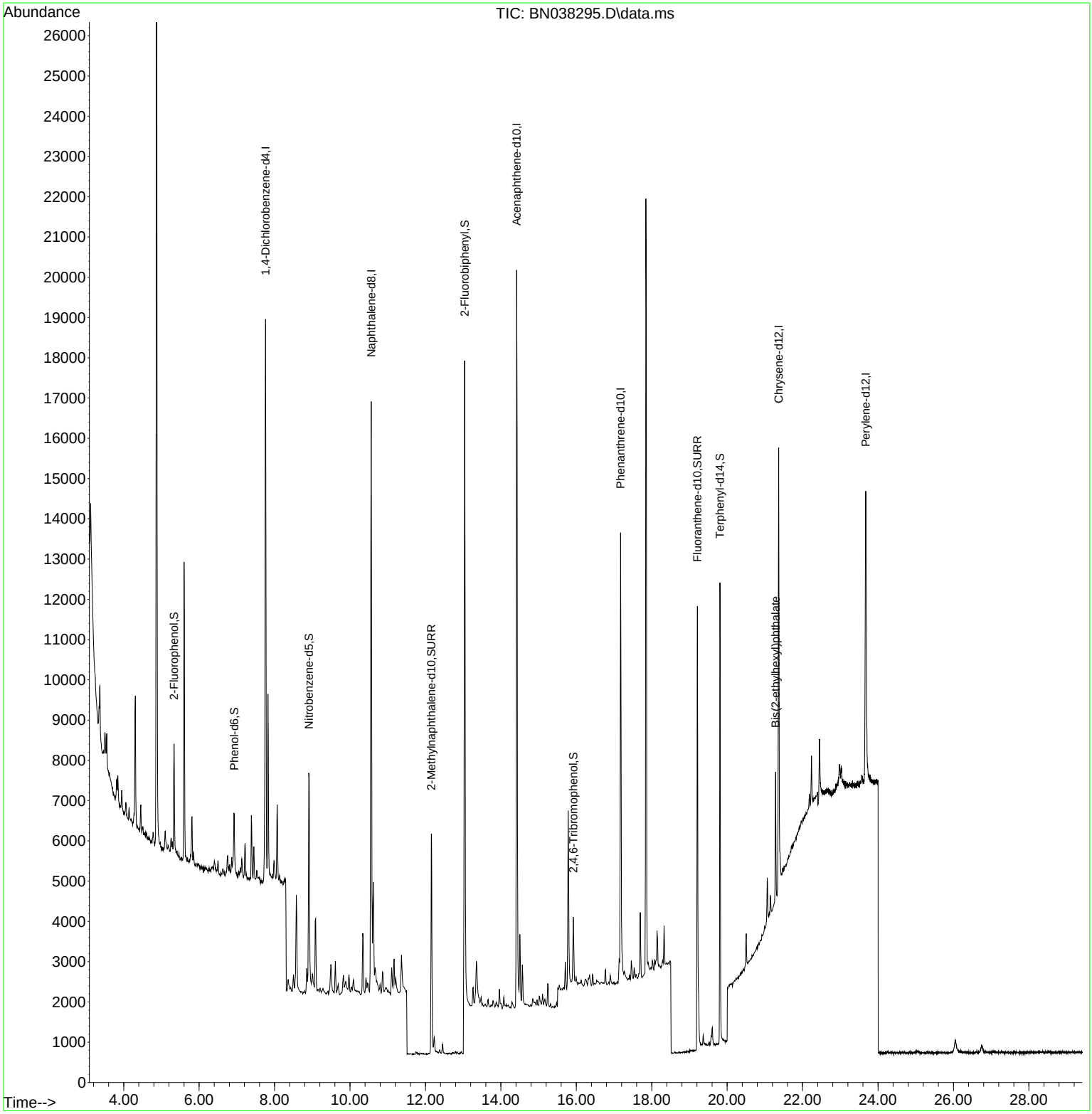
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.760	152	6963	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	20031	0.400	ng	#-0.01
13) Acenaphthene-d10	14.420	164	11010	0.400	ng	-0.01
19) Phenanthrene-d10	17.173	188	16237	0.400	ng	#-0.01
29) Chrysene-d12	21.366	240	10562	0.400	ng	# 0.00
35) Perylene-d12	23.674	264	11226	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	2246	0.138	ng	0.00
5) Phenol-d6	6.930	99	1559	0.077	ng	0.00
8) Nitrobenzene-d5	8.907	82	5223	0.326	ng	-0.01
11) 2-Methylnaphthalene-d10	12.156	152	8322	0.293	ng	-0.01
14) 2,4,6-Tribromophenol	15.920	330	1134	0.327	ng	-0.01
15) 2-Fluorobiphenyl	13.041	172	13771	0.324	ng	-0.01
27) Fluoranthene-d10	19.211	212	12624	0.358	ng	0.00
31) Terphenyl-d14	19.810	244	11042	0.453	ng	0.00
Target Compounds						Qvalue
34) Bis(2-ethylhexyl)phtha...	21.286	149	3079	0.157	ng	99

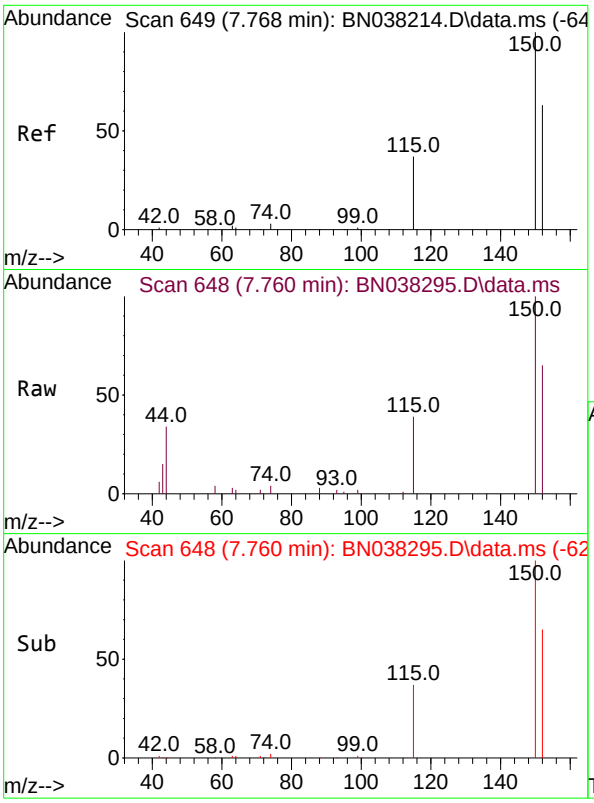
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
Data File : BN038295.D
Acq On : 06 Dec 2025 04:35
Operator : RC/JU
Sample : Q3756-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
EB01-120225

Quant Time: Dec 06 05:26:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration



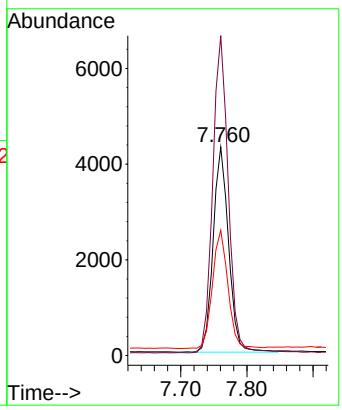


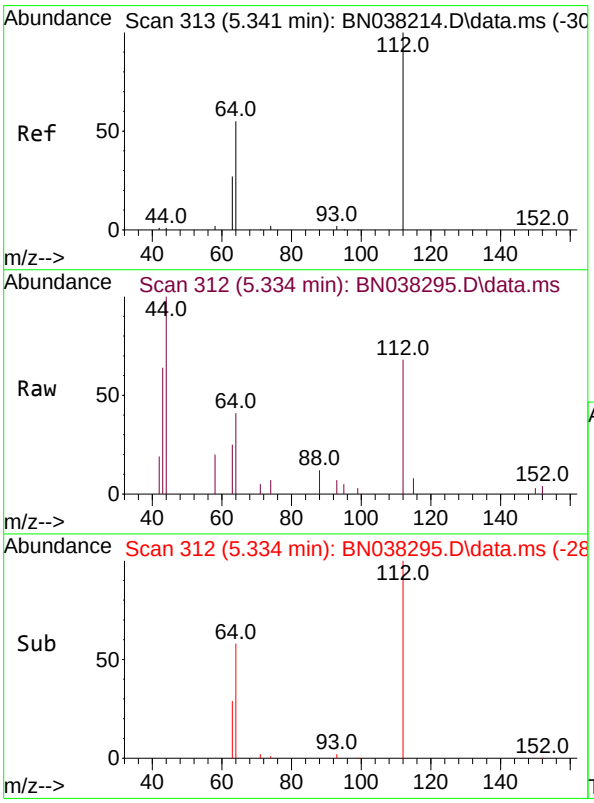
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.760 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

Instrument :
BNA_N
ClientSampleId :
EB01-120225

Tgt Ion:152 Resp: 6963

Ion	Ratio	Lower	Upper
152	100		
150	153.5	125.3	187.9
115	60.1	49.0	73.4

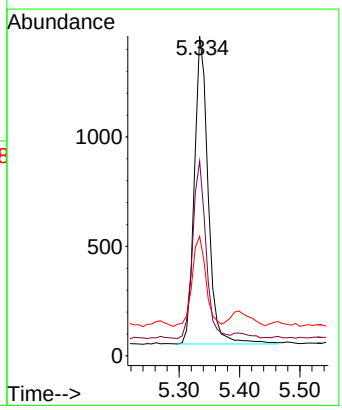


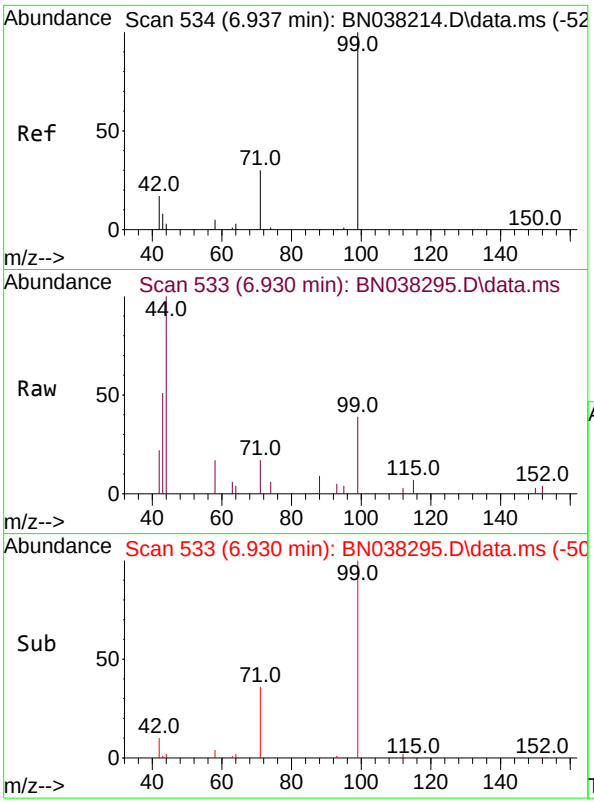


#4
2-Fluorophenol
Concen: 0.138 ng
RT: 5.334 min Scan# 312
Delta R.T. -0.007 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

Tgt Ion:112 Resp: 2246

Ion	Ratio	Lower	Upper
112	100		
64	55.4	45.0	67.4
63	29.3	23.2	34.8



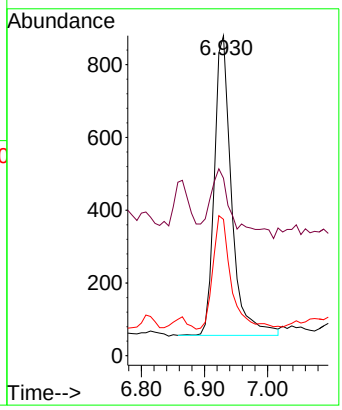


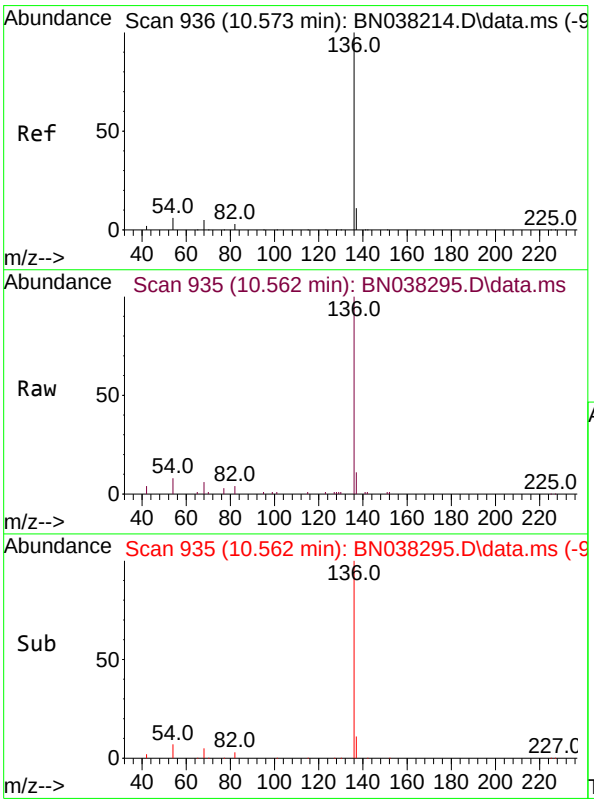
#5
Phenol-d6
Concen: 0.077 ng
RT: 6.930 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

Instrument :
BNA_N
ClientSampleId :
EB01-120225

Tgt Ion: 99 Resp: 1559

Ion	Ratio	Lower	Upper
99	100		
42	29.4	17.0	25.6#
71	40.4	25.4	38.2#

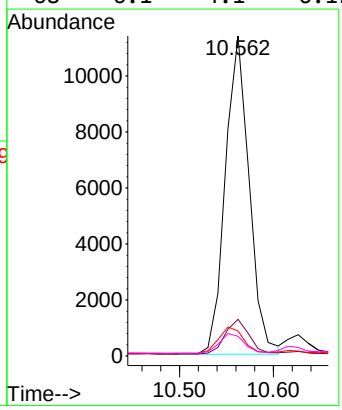


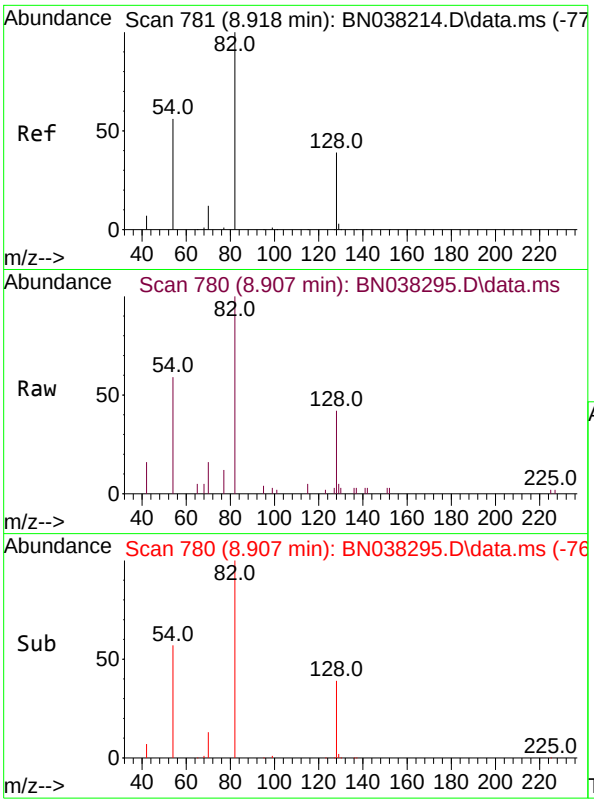


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 935
Delta R.T. -0.011 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

Tgt Ion:136 Resp: 20031

Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.9	13.3
54	7.8	5.4	8.0
68	6.1	4.1	6.1#



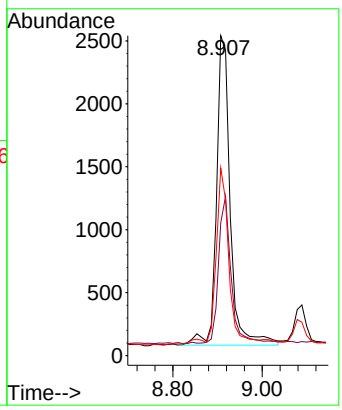


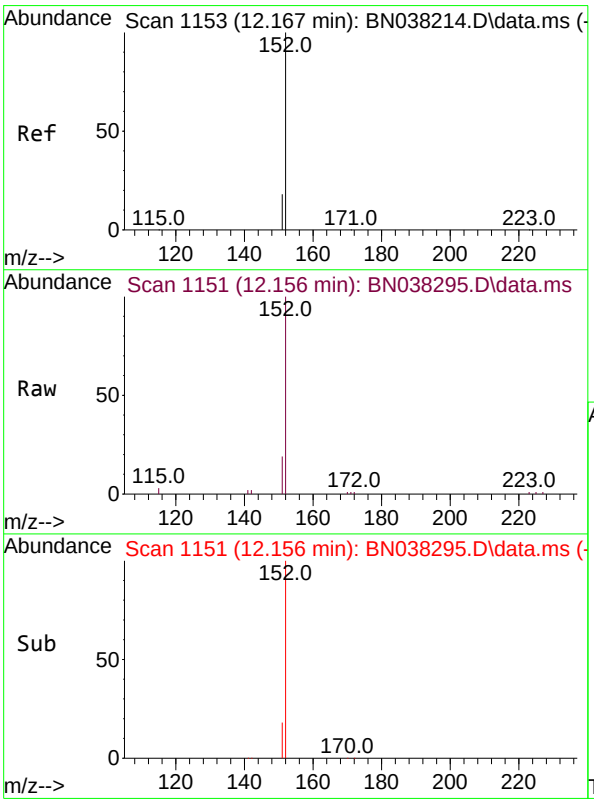
#8
Nitrobenzene-d5
Concen: 0.326 ng
RT: 8.907 min Scan# 78
Delta R.T. -0.011 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

Instrument :
BNA_N
ClientSampleId :
EB01-120225

Tgt Ion: 82 Resp: 5223

Ion	Ratio	Lower	Upper
82	100		
128	41.5	32.6	48.8
54	58.6	45.4	68.0

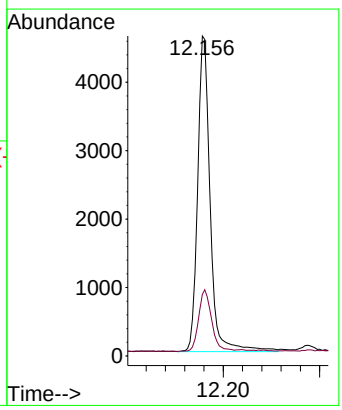


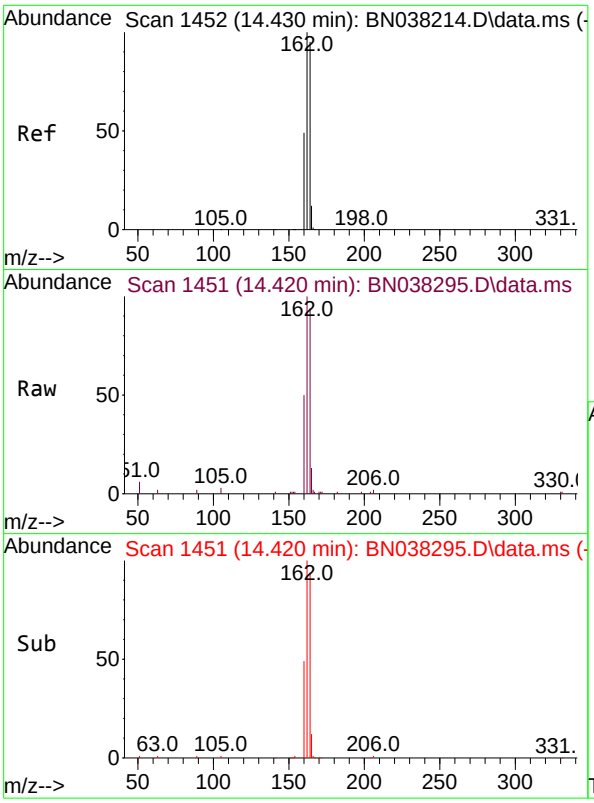


#11
2-Methylnaphthalene-d10
Concen: 0.293 ng
RT: 12.156 min Scan# 1151
Delta R.T. -0.010 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

Tgt Ion:152 Resp: 8322

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.7	25.1



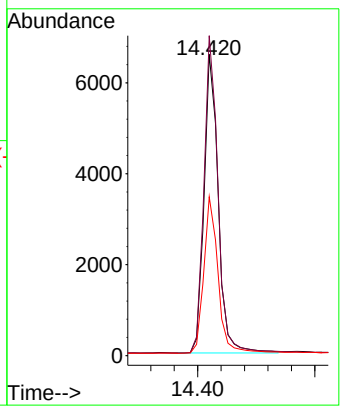


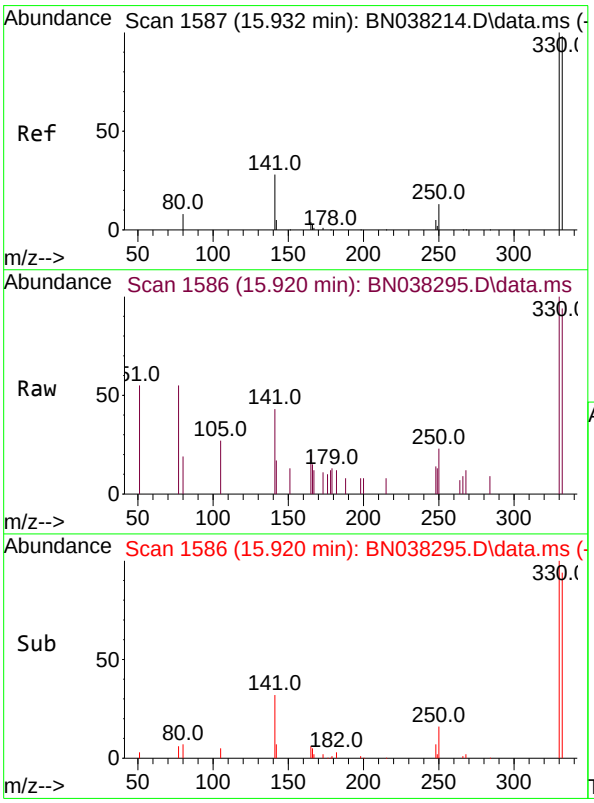
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

Instrument :
BNA_N
ClientSampleId :
EB01-120225

Tgt Ion:164 Resp: 11010

Ion	Ratio	Lower	Upper
164	100		
162	106.3	83.8	125.8
160	52.7	41.6	62.4

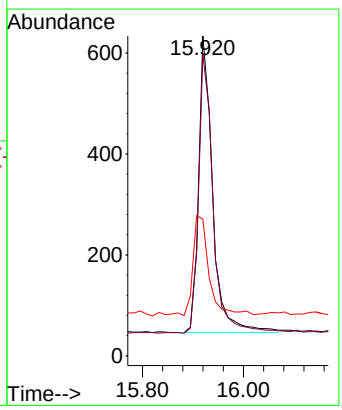


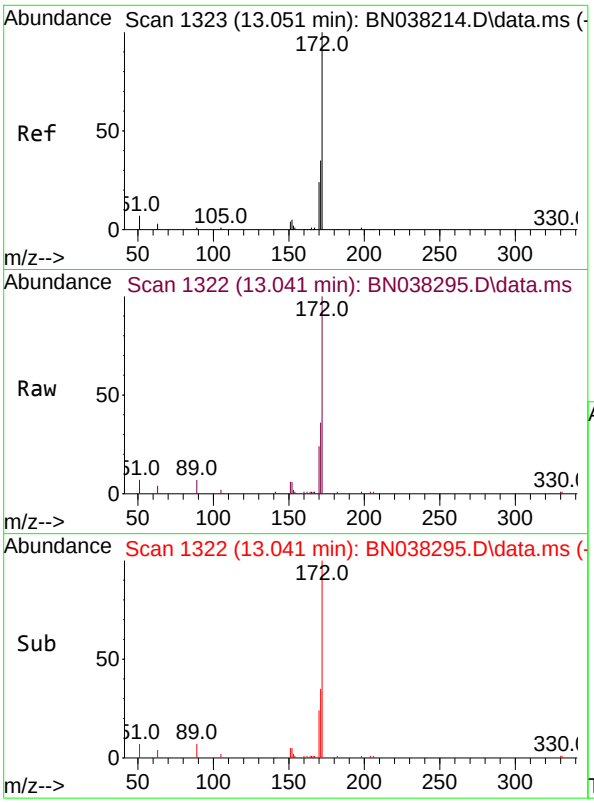


#14
2,4,6-Tribromophenol
Concen: 0.327 ng
RT: 15.920 min Scan# 1586
Delta R.T. -0.012 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

Tgt Ion:330 Resp: 1134

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.8	116.6
141	36.7	33.0	49.4



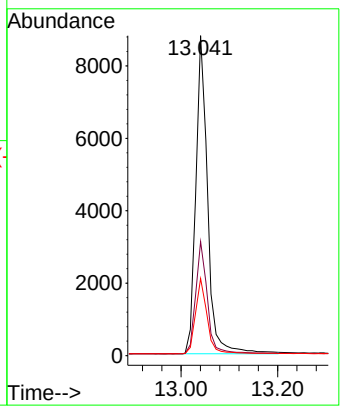


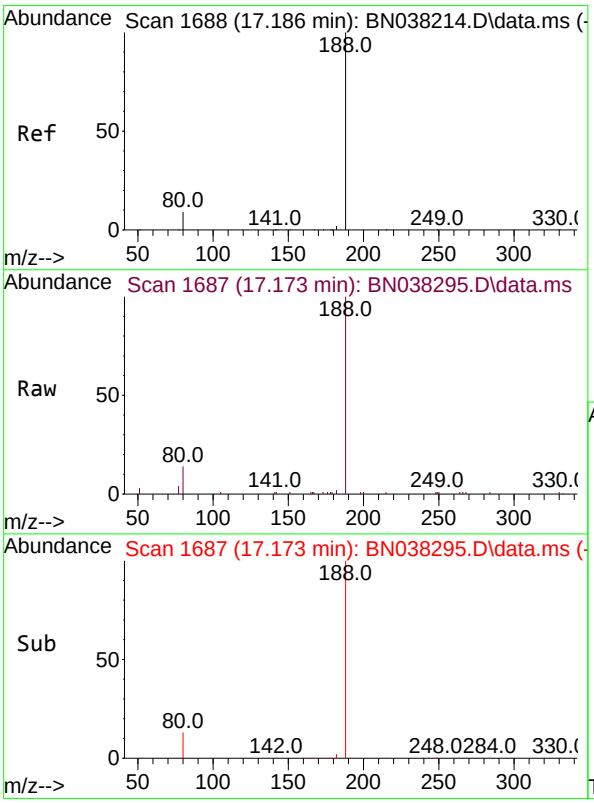
#15
2-Fluorobiphenyl
Concen: 0.324 ng
RT: 13.041 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

Instrument :
BNA_N
ClientSampleId :
EB01-120225

Tgt Ion:172 Resp: 13771

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.1	42.1
170	24.1	19.1	28.7

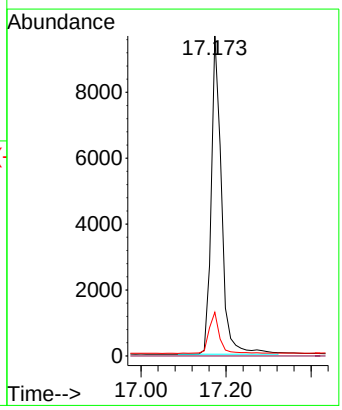


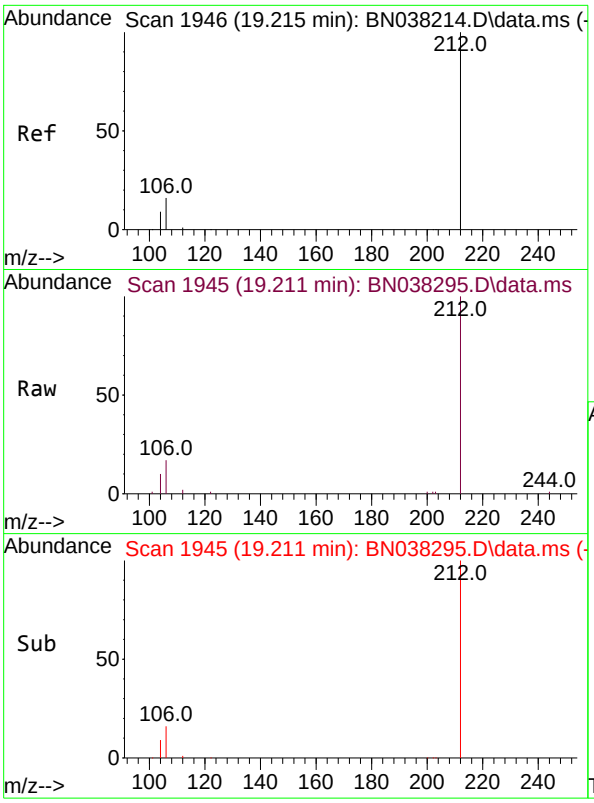


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.173 min Scan# 1687
Delta R.T. -0.012 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

Tgt Ion:188 Resp: 16237

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.7	7.7	11.5#



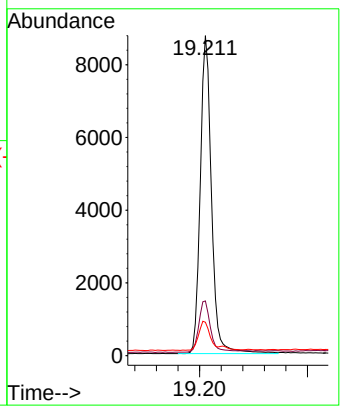


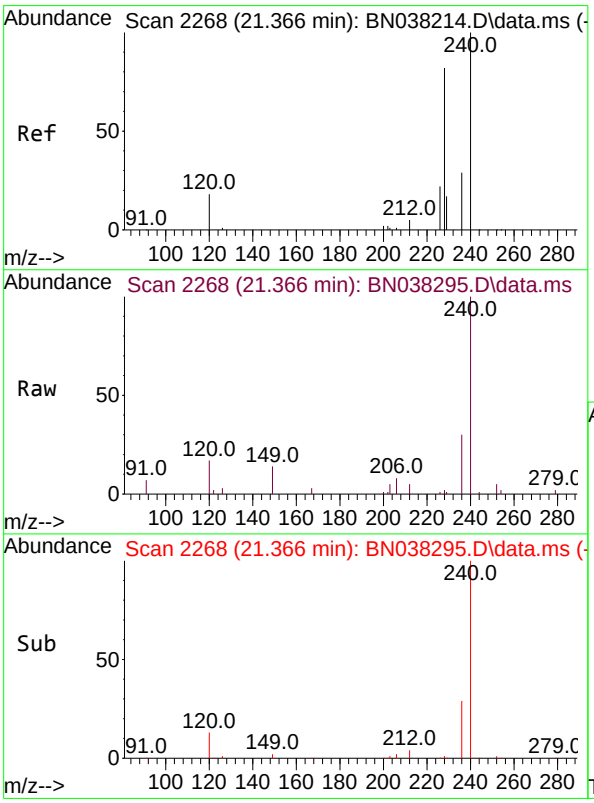
#27
Fluoranthene-d10
Concen: 0.358 ng
RT: 19.211 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

Instrument :
BNA_N
ClientSampleId :
EB01-120225

Tgt Ion:212 Resp: 12624

Ion	Ratio	Lower	Upper
212	100		
106	16.9	12.7	19.1
104	9.2	7.3	10.9

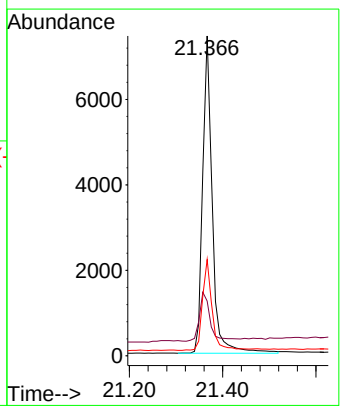


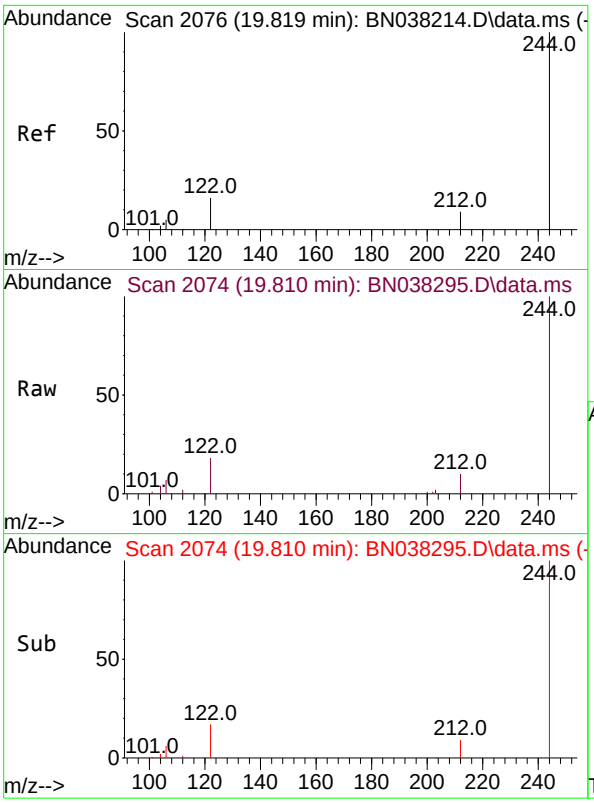


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.366 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

Tgt Ion:240 Resp: 10562

Ion	Ratio	Lower	Upper
240	100		
120	17.1	18.1	27.1#
236	30.1	24.2	36.4



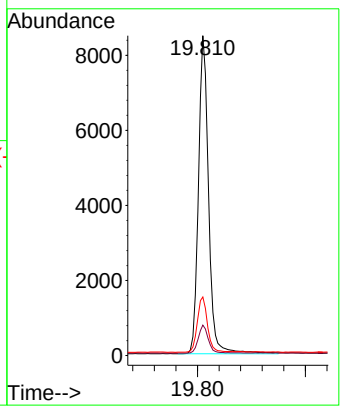


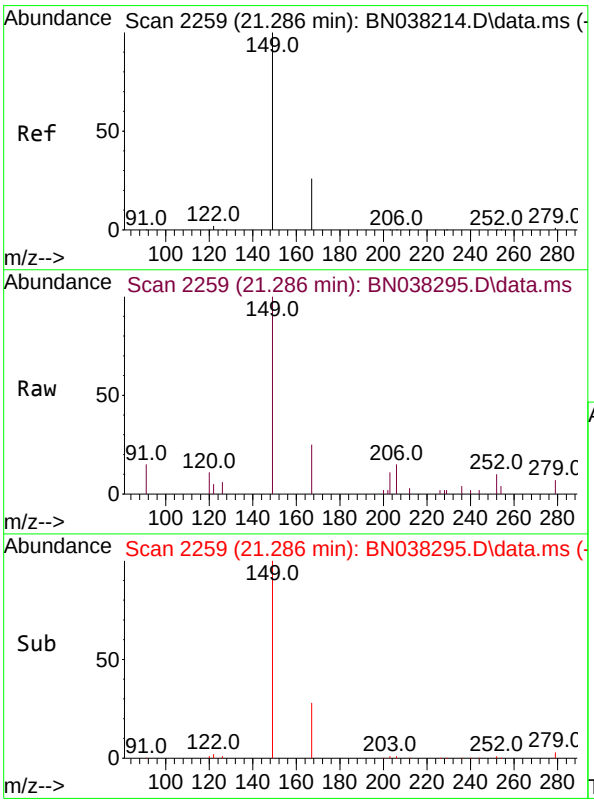
#31
Terphenyl-d14
Concen: 0.453 ng
RT: 19.810 min Scan# 20
Delta R.T. -0.009 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

Instrument :
BNA_N
ClientSampleId :
EB01-120225

Tgt Ion:244 Resp: 11042

Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.7	11.5
122	18.3	13.6	20.4

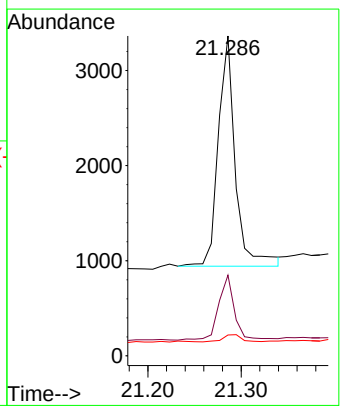


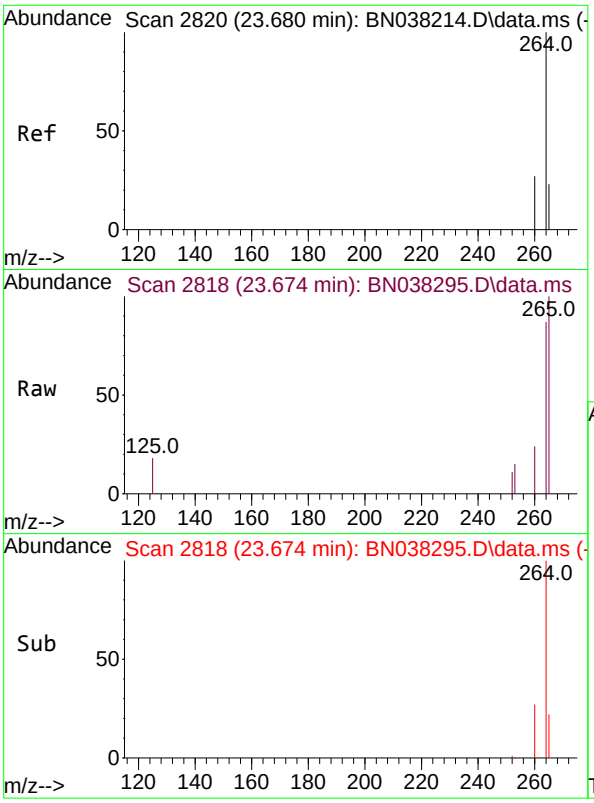


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.157 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

Tgt Ion:149 Resp: 3079

Ion	Ratio	Lower	Upper
149	100		
167	26.3	20.7	31.1
279	3.4	2.5	3.7



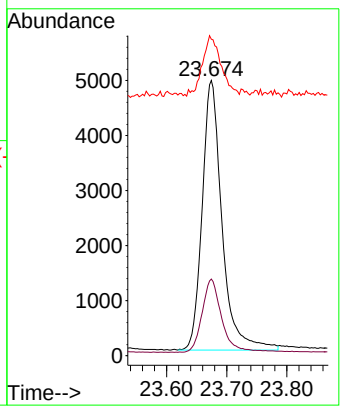


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.674 min Scan# 28
Delta R.T. -0.006 min
Lab File: BN038295.D
Acq: 06 Dec 2025 04:35

Instrument :
BNA_N
ClientSampleId :
EB01-120225

Tgt Ion:264 Resp: 11226

Ion	Ratio	Lower	Upper
264	100		
260	27.8	21.7	32.5
265	115.0	98.0	147.0



CALIBRATION SUMMARY

Raw Data

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: JACO05

Lab Code: ACE SDG No.: Q3756

Instrument ID: BNA_N Calibration Date(s): 11/26/2025 11/27/2025

Calibration Time(s): 20:35 00:13

LAB FILE ID: RRF0.1 = BN038212.D RRF0.2 = BN038213.D RRF0.4 = BN038214.D
RRF0.8 = BN038215.D RRF1.6 = BN038216.D RRF3.2 = BN038217.D

COMPOUND	RRF0.1	RRF0.2	RRF0.4	RRF0.8	RRF1.6	RRF3.2	RRF	% RSD
2-Methylnaphthalene-d10	0.535	0.548	0.588	0.558	0.584	0.584	0.568	3.7
Fluoranthene-d10	0.853	0.845	0.890	0.817	0.864	0.906	0.868	3.8
2-Fluorophenol	1.008	0.930	0.992	0.881	0.925	0.915	0.935	5.1
Phenol-d6	1.180	1.103	1.215	1.099	1.187	1.203	1.168	4.1
Nitrobenzene-d5	0.370	0.314	0.310	0.304	0.321	0.309	0.320	7.1
2-Fluorobiphenyl	1.620	1.549	1.590	1.546	1.578	1.474	1.545	3.8
2,4,6-Tribromophenol	0.106	0.100	0.123	0.122	0.139	0.165	0.126	18.8
Terphenyl-d14	0.903	0.847	0.962	0.906	0.927	0.972	0.924	4.6
1,4-Dioxane		0.484	0.448	0.396	0.423	0.399	0.421	9.3

All other compounds must meet a minimum RRF of 0.010.

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN112725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Nov 28 21:04:10 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN038212.D 0.2 =BN038213.D 0.4 =BN038214.D 0.8 =BN038215.D 1.6 =BN038216.D 3.2 =BN038217.D 5 =BN038218.D

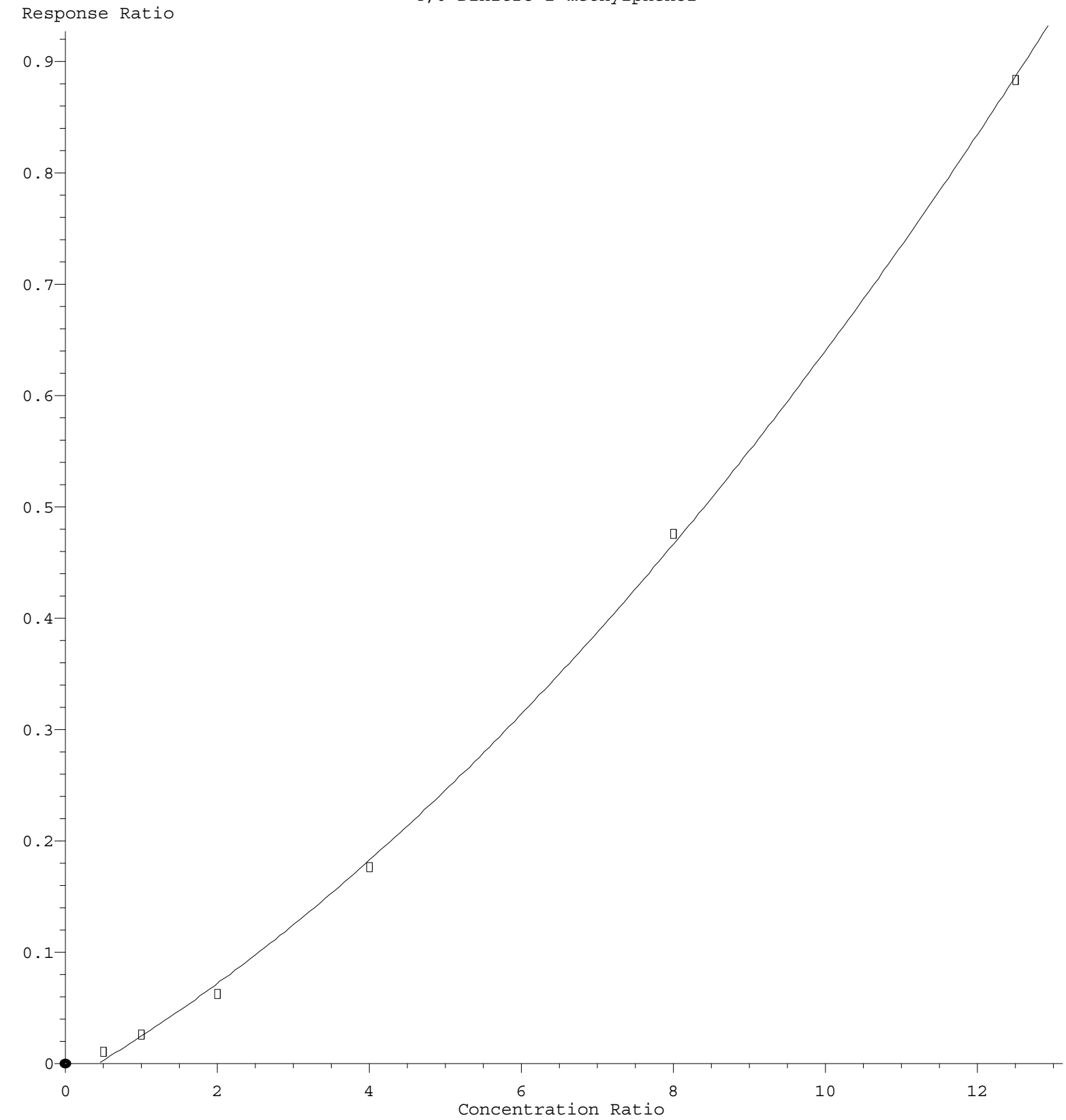
		Compound	0.1	0.2	0.4	0.8	1.6	3.2	5	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------								
2)		1,4-Dioxane	0.484	0.448	0.396	0.423	0.399	0.378	0.421		9.29
3)		n-Nitrosodimet...	0.488	0.543	0.513	0.536	0.528	0.510	0.520		3.87
4)	S	2-Fluorophenol	1.008	0.930	0.992	0.881	0.925	0.915	0.892	0.935	5.14
5)	S	Phenol-d6	1.180	1.103	1.215	1.099	1.187	1.203	1.191	1.168	4.05
6)		bis(2-Chloroet...	1.066	1.118	1.188	1.086	1.152	1.130	1.088	1.118	3.79
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.370	0.314	0.310	0.304	0.321	0.309	0.311	0.320	7.07
9)		Naphthalene	1.152	1.102	1.153	1.075	1.118	1.093	1.082	1.111	2.87
10)		Hexachlorobuta...	0.203	0.192	0.200	0.182	0.188	0.180	0.177	0.189	5.29
11)	SURR	2-Methylnaphth...	0.535	0.548	0.588	0.558	0.584	0.584	0.579	0.568	3.70
12)		2-Methylnaphth...	0.696	0.697	0.760	0.718	0.754	0.750	0.741	0.731	3.68
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.106	0.100	0.123	0.122	0.139	0.165		0.126	18.76
15)	S	2-Fluorobiphenyl	1.620	1.549	1.590	1.546	1.578	1.474	1.459	1.545	3.85
16)		Acenaphthylene	1.756	1.685	1.801	1.702	1.830	1.866	1.880	1.789	4.31
17)		Acenaphthene	1.244	1.208	1.292	1.198	1.263	1.262	1.261	1.247	2.66
18)		Fluorene	1.544	1.442	1.650	1.571	1.680	1.708	1.703	1.614	6.13
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...	0.021	0.026	0.031	0.044	0.059	0.071	0.042		46.82
21)		4-Bromophenyl-...	0.268	0.268	0.285	0.268	0.287	0.284	0.280	0.277	3.19
22)		Hexachlorobenzene	0.377	0.366	0.358	0.320	0.337	0.319	0.307	0.341	7.87
23)		Atrazine	0.165	0.157	0.175	0.164	0.181	0.198	0.200	0.177	9.46
24)		Pentachlorophenol	0.090	0.084	0.080	0.096	0.117		0.093		15.54
25)		Phenanthrene	1.247	1.207	1.311	1.202	1.270	1.293	1.259	1.256	3.24
26)		Anthracene	0.996	0.998	1.068	1.016	1.100	1.156	1.166	1.071	6.73
27)	SURR	Fluoranthene-d10	0.853	0.845	0.890	0.817	0.864	0.906	0.900	0.868	3.76
28)		Fluoranthene	1.174	1.147	1.227	1.146	1.230	1.281	1.266	1.210	4.55
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	2.066	1.804	2.087	1.972	1.973	2.077	2.006	1.998	4.91
31)	S	Terphenyl-d14	0.903	0.847	0.962	0.906	0.927	0.972	0.949	0.924	4.65
32)		Benzo(a)anthra...	1.321	1.271	1.368	1.320	1.373	1.421	1.409	1.355	3.94
33)		Chrysene	1.742	1.639	1.661	1.517	1.597	1.541	1.494	1.599	5.53
34)		Bis(2-ethylhex...	0.780	0.801	0.700	0.682	0.740	0.746	0.742		6.12
35)	I	Perylene-d12	----------ISTD----------								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN112725.M

36)		Indeno(1,2,3-c...	1.747	1.715	1.875	1.736	1.962	1.963	1.960	1.851	6.24
37)		Benzo(b)fluora...	1.563	1.555	1.703	1.586	1.675	1.721	1.690	1.642	4.32
38)		Benzo(k)fluora...	1.627	1.639	1.758	1.658	1.749	1.776	1.742	1.707	3.69
39)	C	Benzo(a)pyrene	1.414	1.284	1.386	1.316	1.403	1.414	1.417	1.376	3.93
40)		Dibenzo(a,h)an...	1.264	1.234	1.379	1.349	1.512	1.541	1.531	1.401	9.14
41)		Benzo(g,h,i)pe...	1.722	1.586	1.721	1.617	1.720	1.687	1.670	1.674	3.25

(#) = Out of Range

4,6-Dinitro-2-methylphenol



R = 2.629e-003 A*A + 3.944e-002 A - 1.746e-002
Coef of Det (r^2) = 0.999527 Curve Fit: Quadratic
Method Name: Z:\svoasrv\HPCHEM1\BNA N\Methods\8270-SIM-BN112725.M
Calibration Table Last Updated: Fri Nov 28 21:04:10 2025

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038212.D
Acq On : 26 Nov 2025 20:35
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

Quant Time: Nov 28 20:54:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.768	152	8004	0.400	ng		0.00
7) Naphthalene-d8	10.573	136	24261	0.400	ng		0.00
13) Acenaphthene-d10	14.430	164	13487	0.400	ng		0.00
19) Phenanthrene-d10	17.186	188	22239	0.400	ng		0.00
29) Chrysene-d12	21.375	240	12844	0.400	ng	#	0.00
35) Perylene-d12	23.683	264	12898	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.341	112	2018	0.108	ng		0.00
5) Phenol-d6	6.937	99	2361	0.101	ng		0.00
8) Nitrobenzene-d5	8.929	82	2243	0.116	ng		0.01
11) 2-Methylnaphthalene-d10	12.172	152	3243	0.094	ng		0.00
14) 2,4,6-Tribromophenol	15.945	330	357	0.084	ng		0.01
15) 2-Fluorobiphenyl	13.062	172	5461	0.105	ng		0.01
27) Fluoranthene-d10	19.220	212	4740	0.098	ng		0.00
31) Terphenyl-d14	19.819	244	2901	0.098	ng		0.00
Target Compounds							Qvalue
6) bis(2-Chloroethyl)ether	7.190	93	2134	0.095	ng		95
9) Naphthalene	10.616	128	6988	0.104	ng		96
10) Hexachlorobutadiene	10.915	225	1231	0.107	ng	#	97
12) 2-Methylnaphthalene	12.248	142	4222	0.095	ng		97
16) Acenaphthylene	14.152	152	5921	0.098	ng		100
17) Acenaphthene	14.495	154	4196	0.100	ng		97
18) Fluorene	15.489	166	5207	0.096	ng		100
21) 4-Bromophenyl-phenylether	16.379	248	1492	0.097	ng	#	77
22) Hexachlorobenzene	16.491	284	2097	0.111	ng		98
23) Atrazine	16.652	200	918	0.093	ng	#	89
25) Phenanthrene	17.223	178	6934	0.099	ng		99
26) Anthracene	17.322	178	5536	0.093	ng		100
28) Fluoranthene	19.253	202	6527	0.097	ng		99
30) Pyrene	19.610	202	6634	0.103	ng		100
32) Benzo(a)anthracene	21.358	228	4241	0.097	ng		97
33) Chrysene	21.411	228	5593	0.109	ng		98
36) Indeno(1,2,3-cd)pyrene	26.045	276	5633	0.094	ng	#	92
37) Benzo(b)fluoranthene	22.987	252	5040	0.095	ng	#	56
38) Benzo(k)fluoranthene	23.031	252	5245	0.095	ng	#	63
39) Benzo(a)pyrene	23.587	252	4558	0.103	ng	#	40
40) Dibenzo(a,h)anthracene	26.069	278	4077	0.090	ng	#	68
41) Benzo(g,h,i)perylene	26.753	276	5553m	0.103	ng		

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

ICAL Form

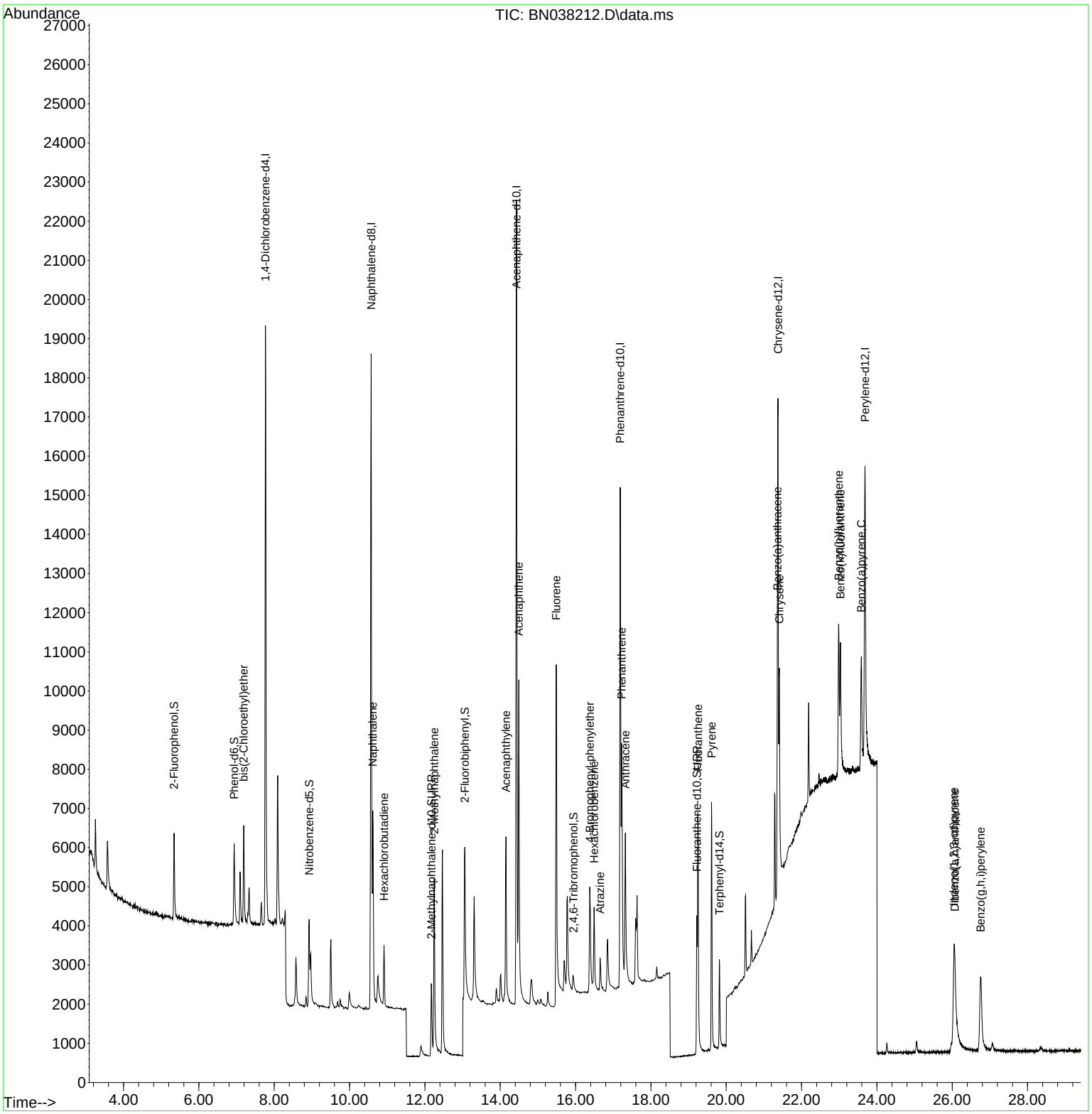
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038212.D
Acq On : 26 Nov 2025 20:35
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 12 Sample Multiplier: 1

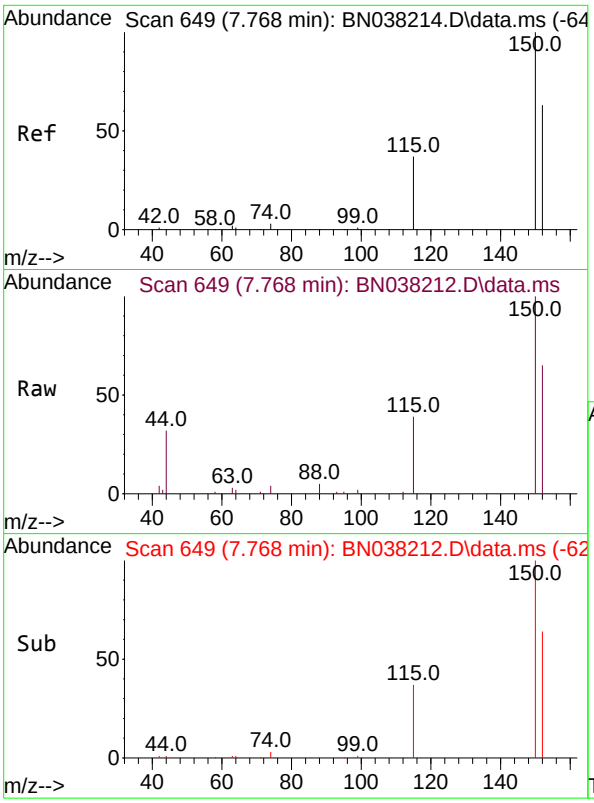
Quant Time: Nov 28 20:54:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

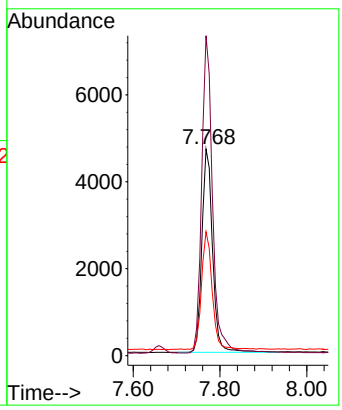




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.768 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:152 Resp: 8004

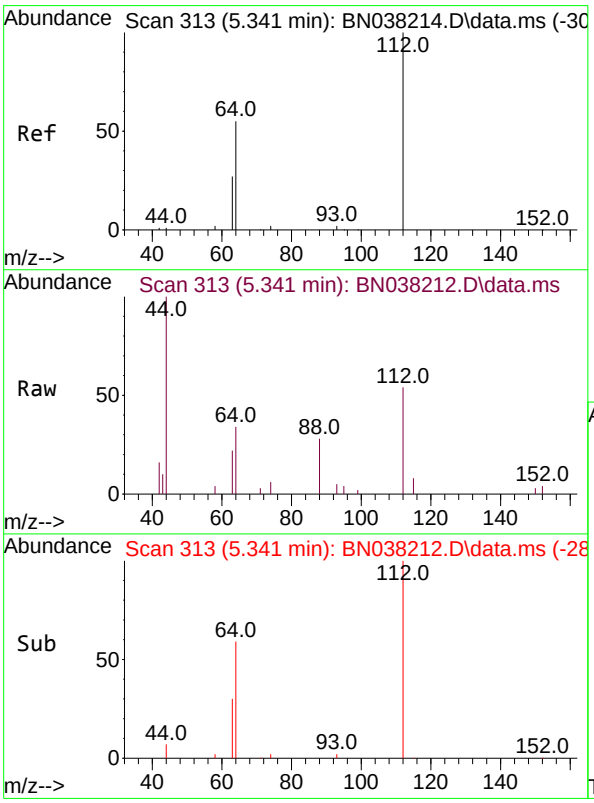
Ion	Ratio	Lower	Upper
152	100		
150	155.0	125.3	187.9
115	60.0	49.0	73.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

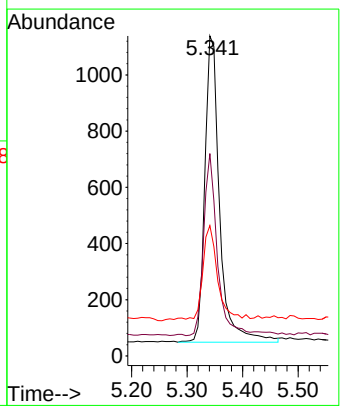
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

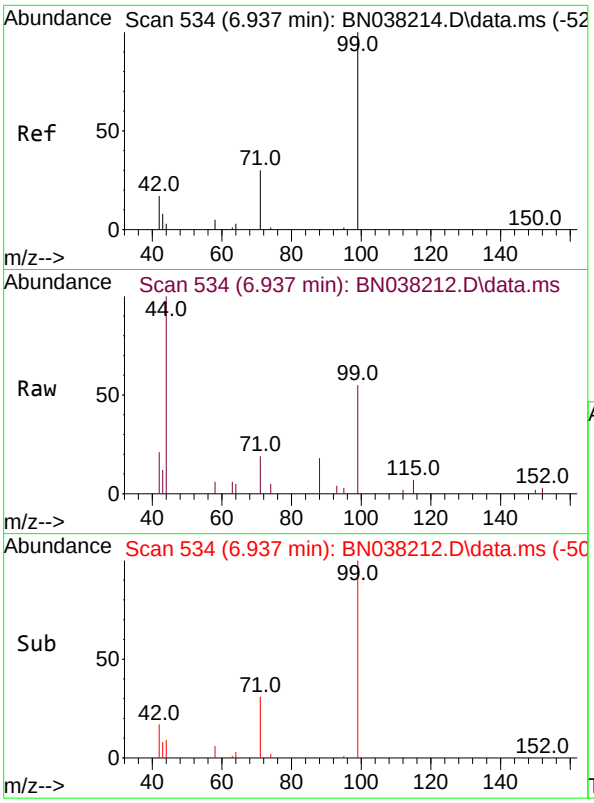


#4
2-Fluorophenol
Concen: 0.108 ng
RT: 5.341 min Scan# 313
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:112 Resp: 2018

Ion	Ratio	Lower	Upper
112	100		
64	54.6	45.0	67.4
63	29.6	23.2	34.8

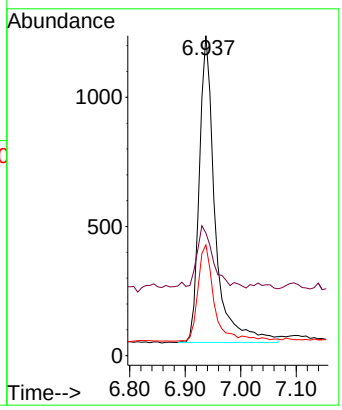




#5
Phenol-d6
Concen: 0.101 ng
RT: 6.937 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion: 99 Resp: 236

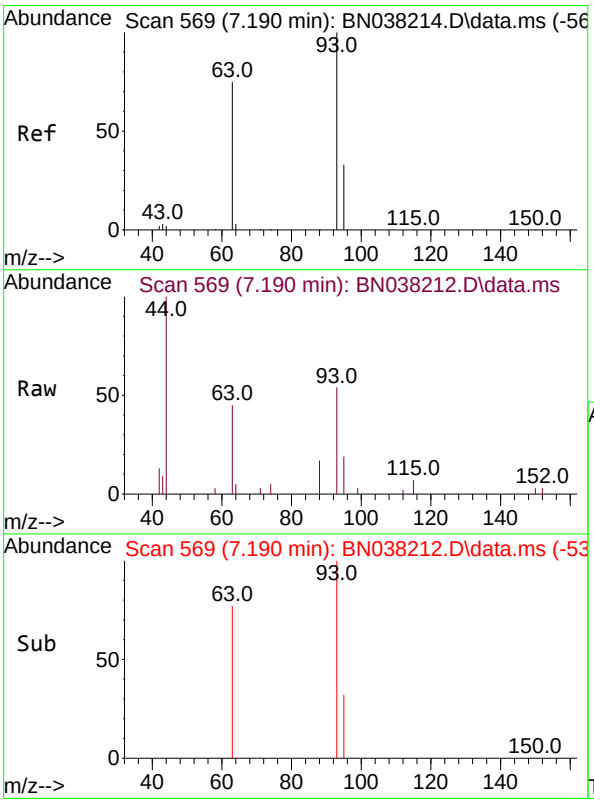
Ion	Ratio	Lower	Upper
99	100		
42	23.7	17.0	25.6
71	32.5	25.4	38.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

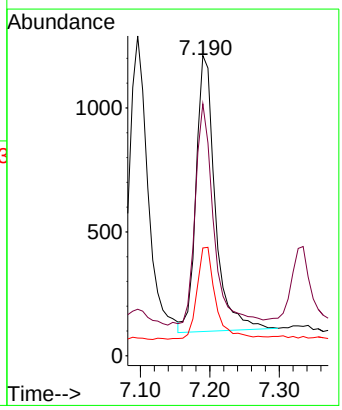
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

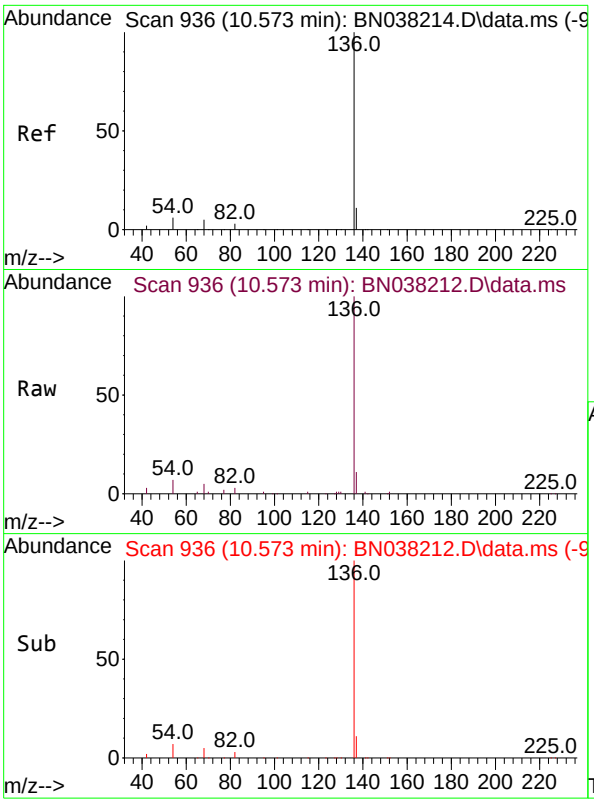


#6
bis(2-Chloroethyl)ether
Concen: 0.095 ng
RT: 7.190 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion: 93 Resp: 2134

Ion	Ratio	Lower	Upper
93	100		
63	78.2	58.1	87.1
95	32.9	25.1	37.7

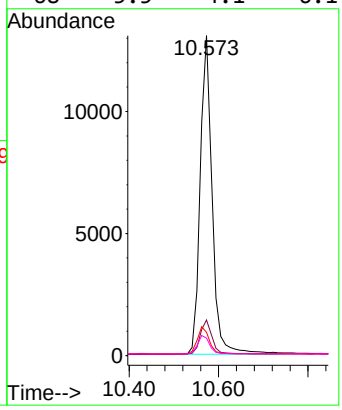




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.573 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:136 Resp: 2426

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	7.3	5.4	8.0
68	5.5	4.1	6.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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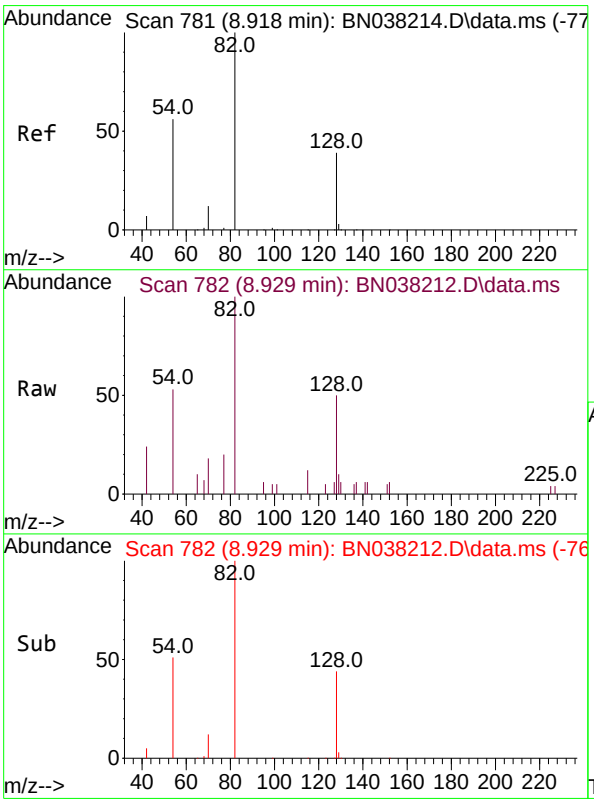
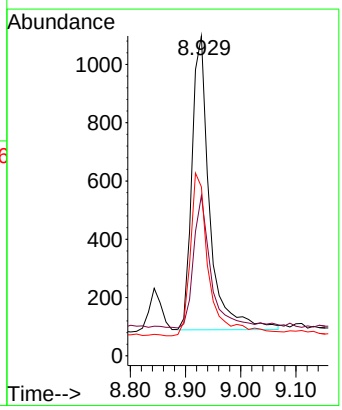
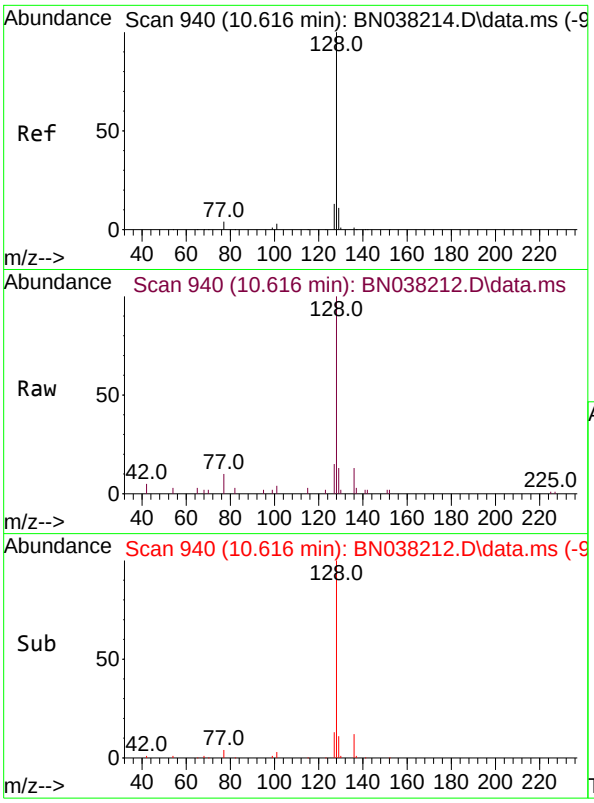


#8
Nitrobenzene-d5
Concen: 0.116 ng
RT: 8.929 min Scan# 782
Delta R.T. 0.011 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion: 82 Resp: 2243

Ion	Ratio	Lower	Upper
82	100		
128	50.1	32.6	48.8#
54	52.8	45.4	68.0

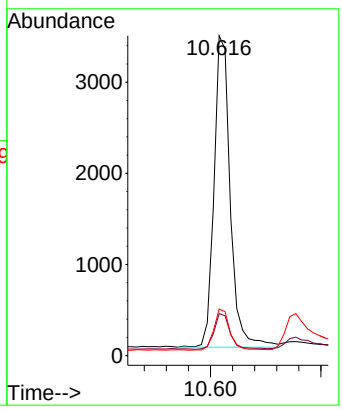




#9
Naphthalene
Concen: 0.104 ng
RT: 10.616 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:128 Resp: 698

Ion	Ratio	Lower	Upper
128	100		
129	13.1	9.1	13.7
127	14.6	10.6	16.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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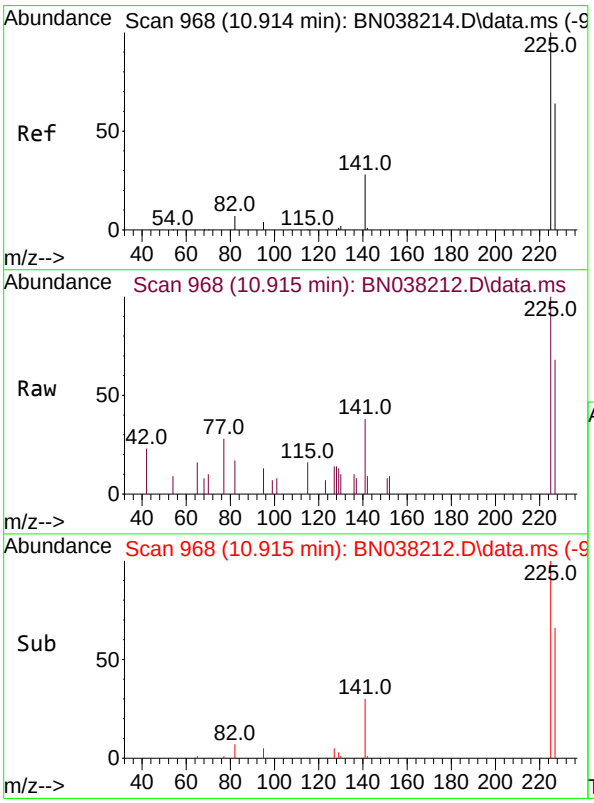
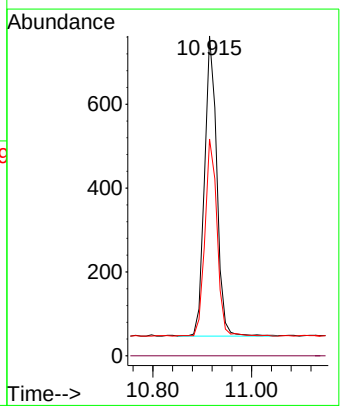
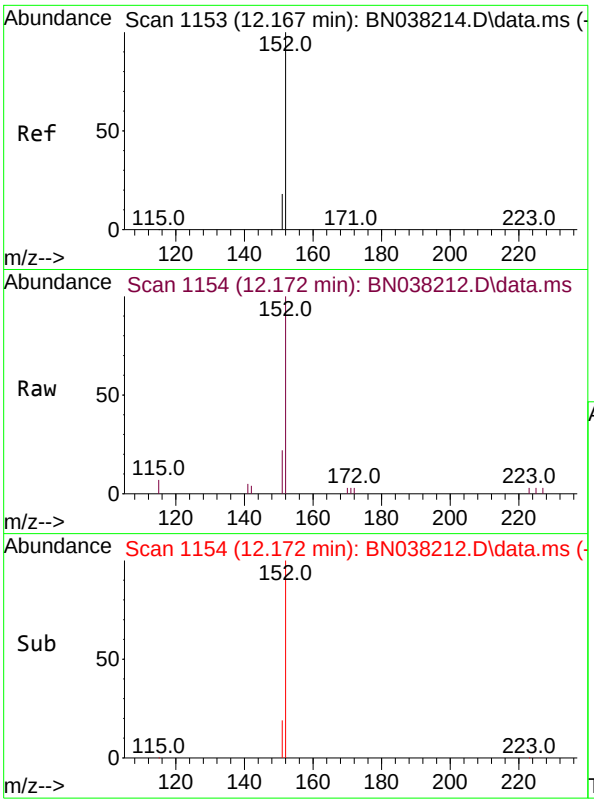


#10
Hexachlorobutadiene
Concen: 0.107 ng
RT: 10.915 min Scan# 968
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:225 Resp: 1231

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.1	50.5	75.7

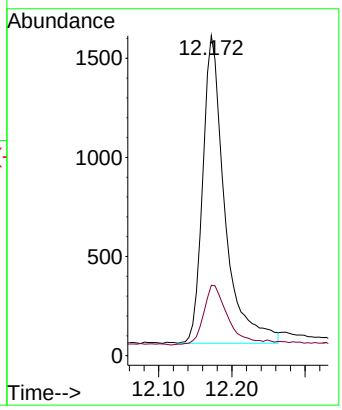




#11
2-Methylnaphthalene-d10
Concen: 0.094 ng
RT: 12.172 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:152 Resp: 324

Ion	Ratio	Lower	Upper
152	100		
151	21.4	16.7	25.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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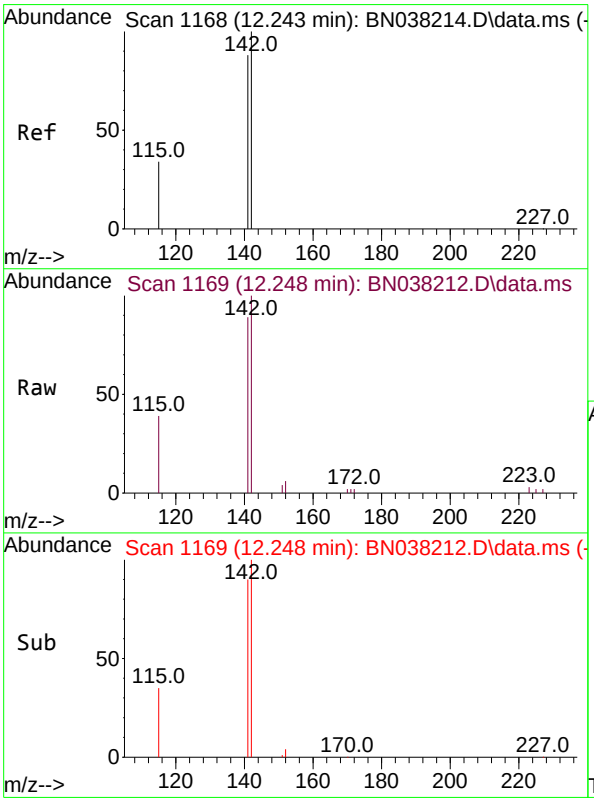
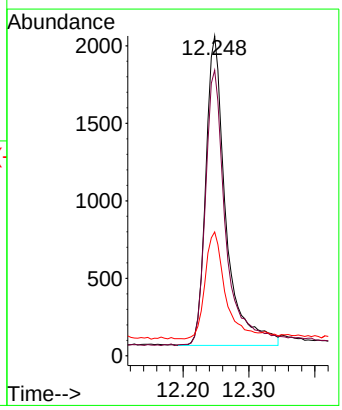
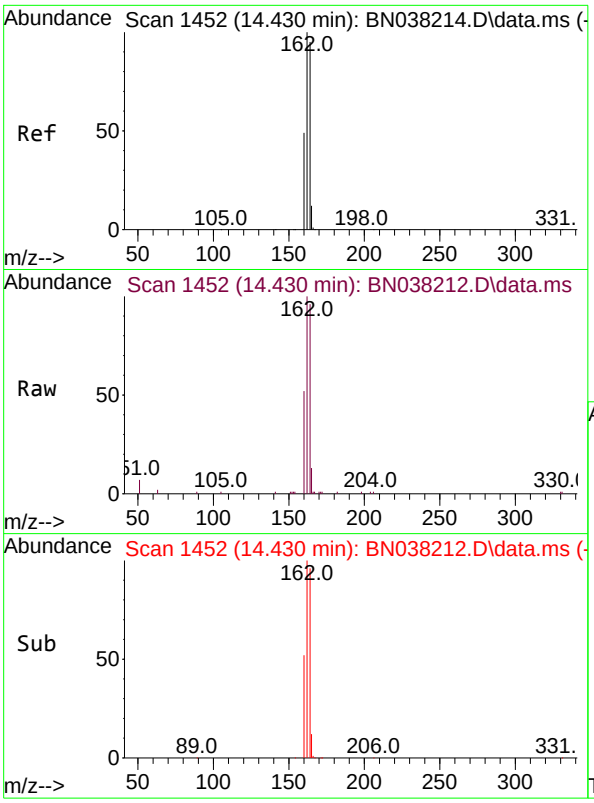


#12
2-Methylnaphthalene
Concen: 0.095 ng
RT: 12.248 min Scan# 1169
Delta R.T. 0.005 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:142 Resp: 4222

Ion	Ratio	Lower	Upper
142	100		
141	89.3	70.9	106.3
115	38.7	27.7	41.5

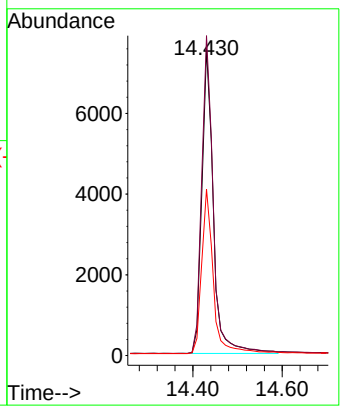




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:164 Resp: 1348

Ion	Ratio	Lower	Upper
164	100		
162	104.5	83.8	125.8
160	54.4	41.6	62.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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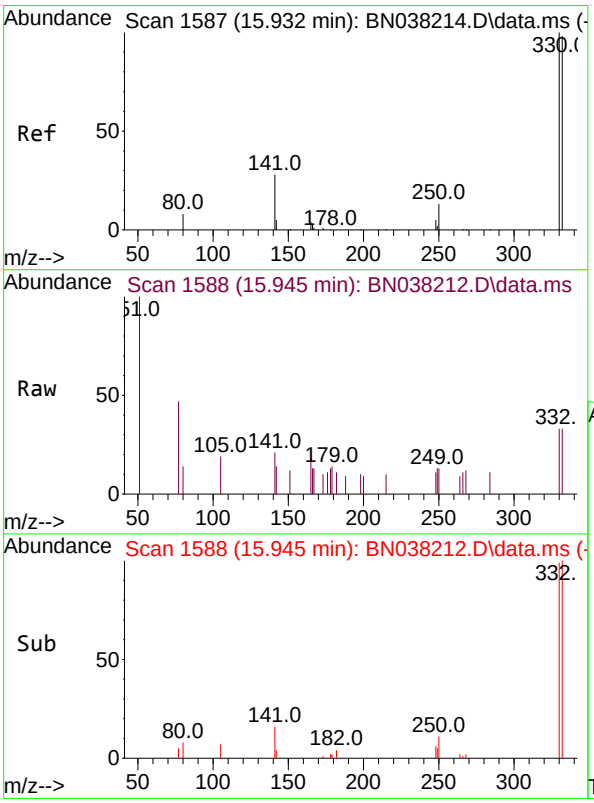
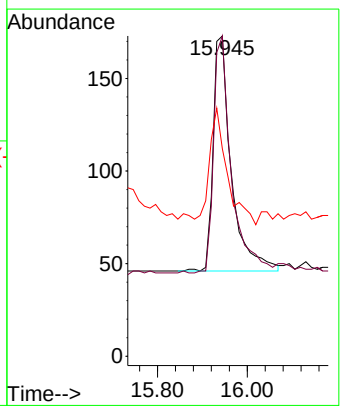
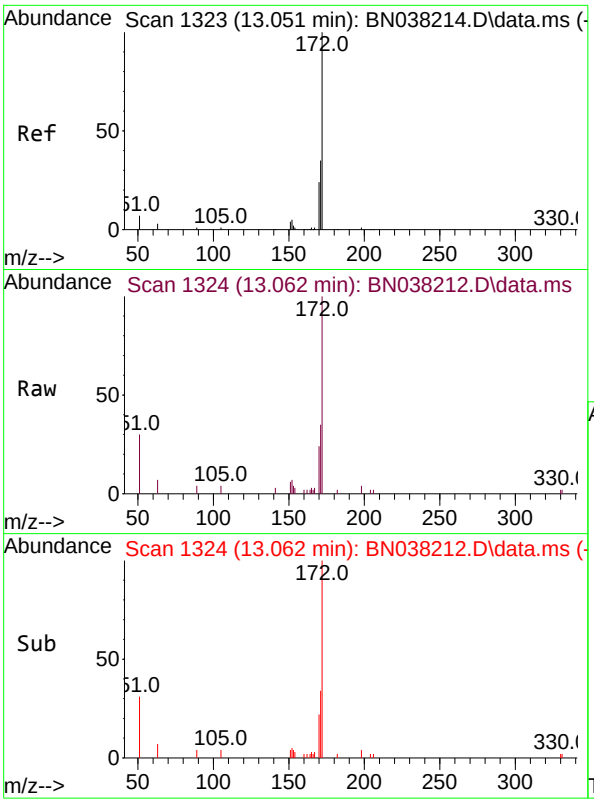


#14
2,4,6-Tribromophenol
Concen: 0.084 ng
RT: 15.945 min Scan# 1588
Delta R.T. 0.013 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:330 Resp: 357

Ion	Ratio	Lower	Upper
330	100		
332	98.6	77.8	116.6
141	48.2	33.0	49.4

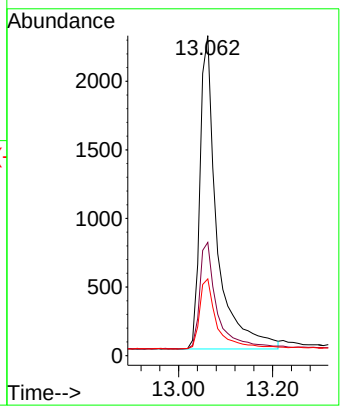




#15
2-Fluorobiphenyl
Concen: 0.105 ng
RT: 13.062 min Scan# 1
Delta R.T. 0.011 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:172 Resp: 5461

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.1	42.1
170	24.0	19.1	28.7



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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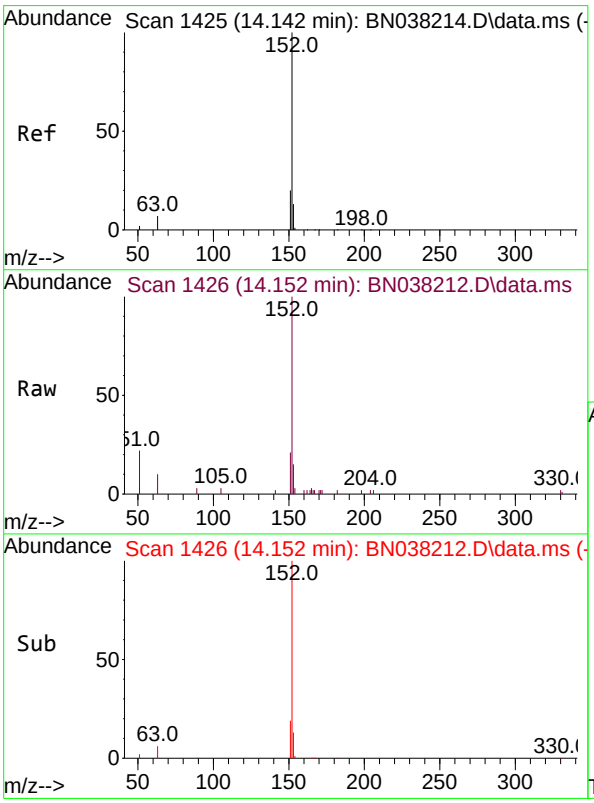
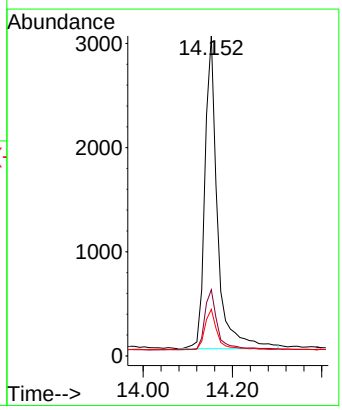
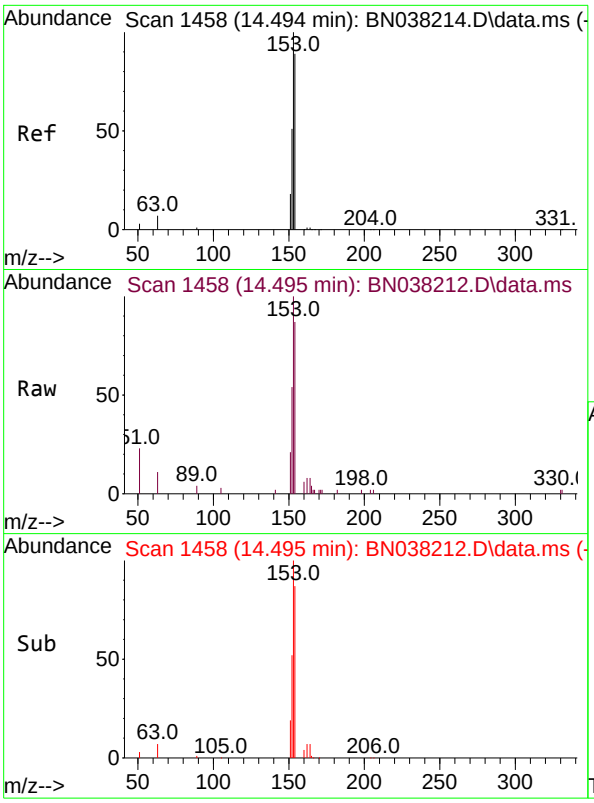


#16
Acenaphthylene
Concen: 0.098 ng
RT: 14.152 min Scan# 1426
Delta R.T. 0.011 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:152 Resp: 5921

Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.6	23.4
153	13.1	10.6	15.8

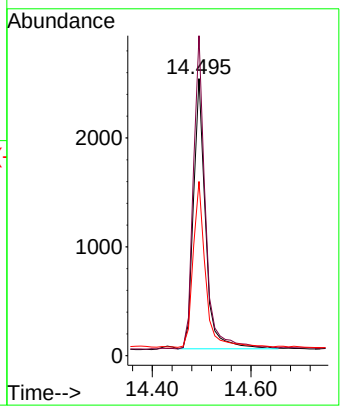




#17
Acenaphthene
Concen: 0.100 ng
RT: 14.495 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:154 Resp: 419

Ion	Ratio	Lower	Upper
154	100		
153	116.8	91.1	136.7
152	62.9	48.2	72.2



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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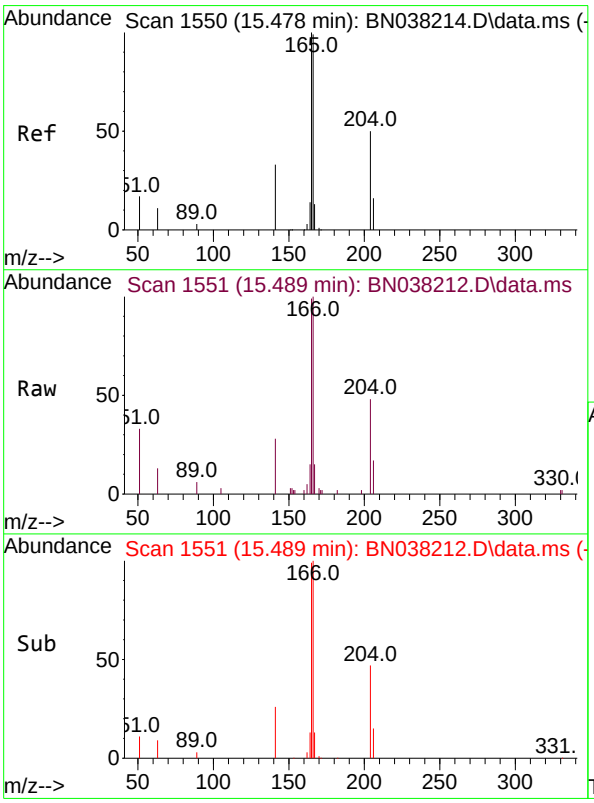
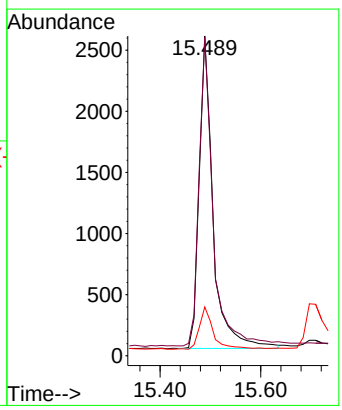
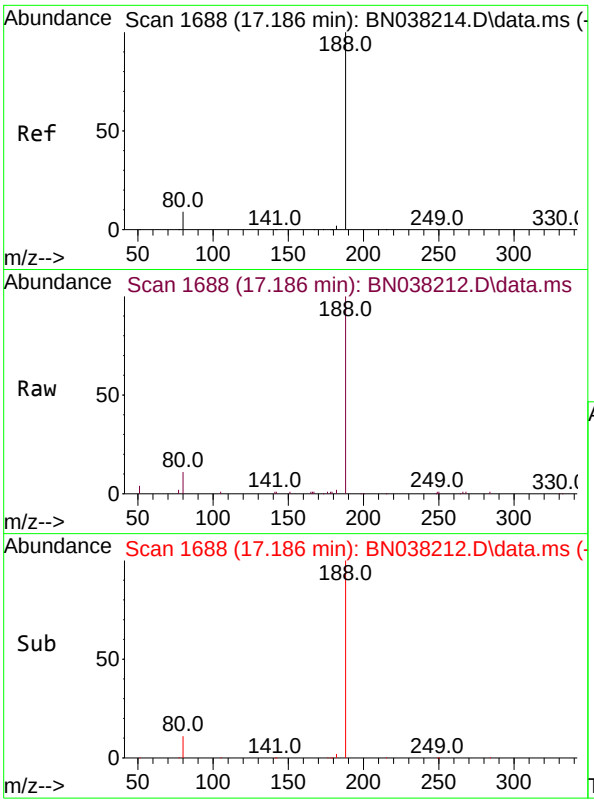


#18
Fluorene
Concen: 0.096 ng
RT: 15.489 min Scan# 1551
Delta R.T. 0.011 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:166 Resp: 5207

Ion	Ratio	Lower	Upper
166	100		
165	98.4	78.7	118.1
167	13.6	10.9	16.3

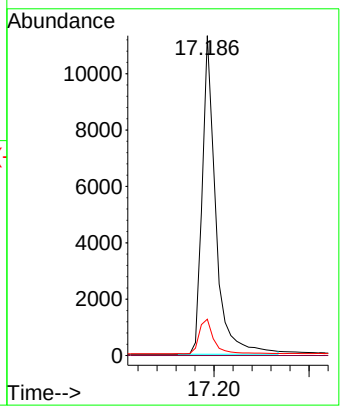




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:188 Resp: 2223

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.4	7.7	11.5



Instrument :
BNA_N
ClientSampleId :
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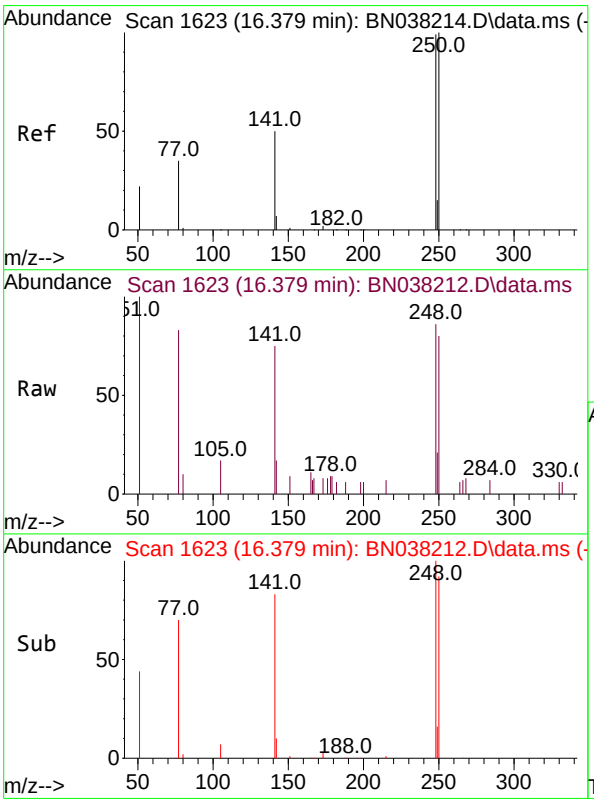
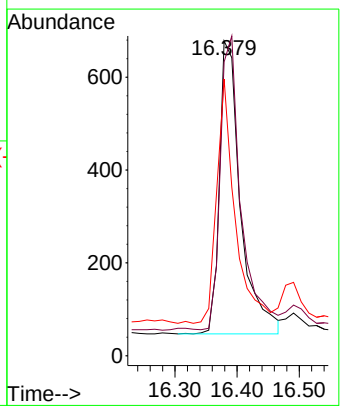
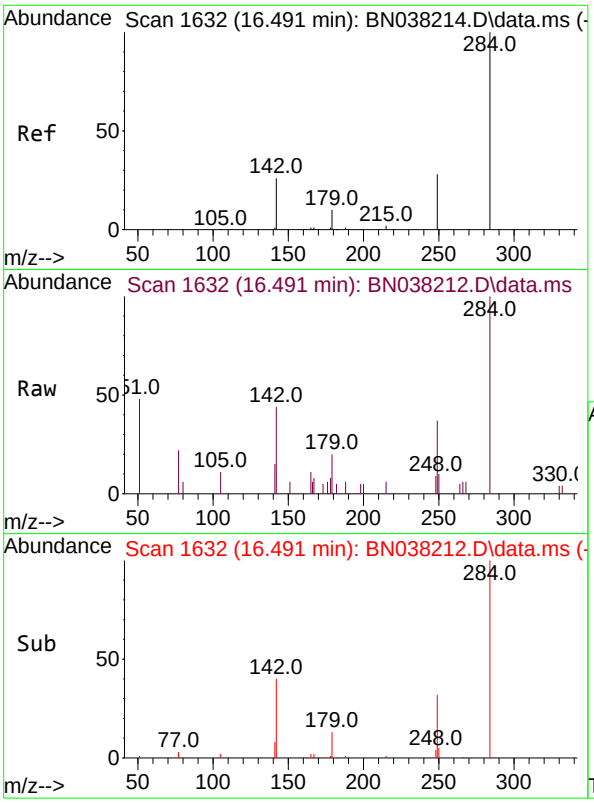


#21
4-Bromophenyl-phenylether
Concen: 0.097 ng
RT: 16.379 min Scan# 1623
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:248 Resp: 1492

Ion	Ratio	Lower	Upper
248	100		
250	93.4	80.8	121.2
141	87.9	41.0	61.6#

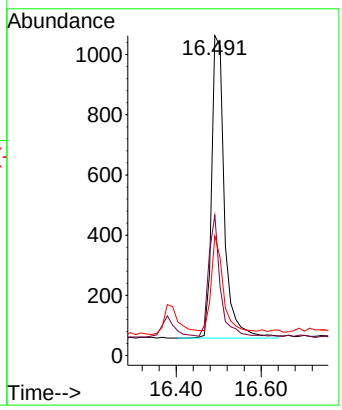




#22
Hexachlorobenzene
Concen: 0.111 ng
RT: 16.491 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:284 Resp: 209

Ion	Ratio	Lower	Upper
284	100		
142	36.2	30.5	45.7
249	29.5	23.8	35.8



Instrument :
BNA_N
ClientSampleId :
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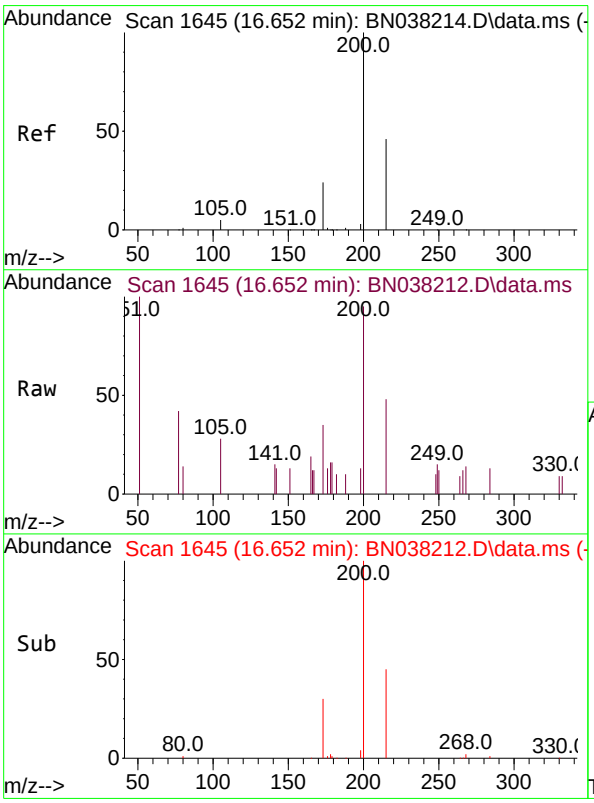
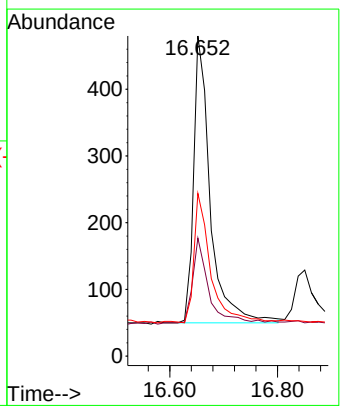
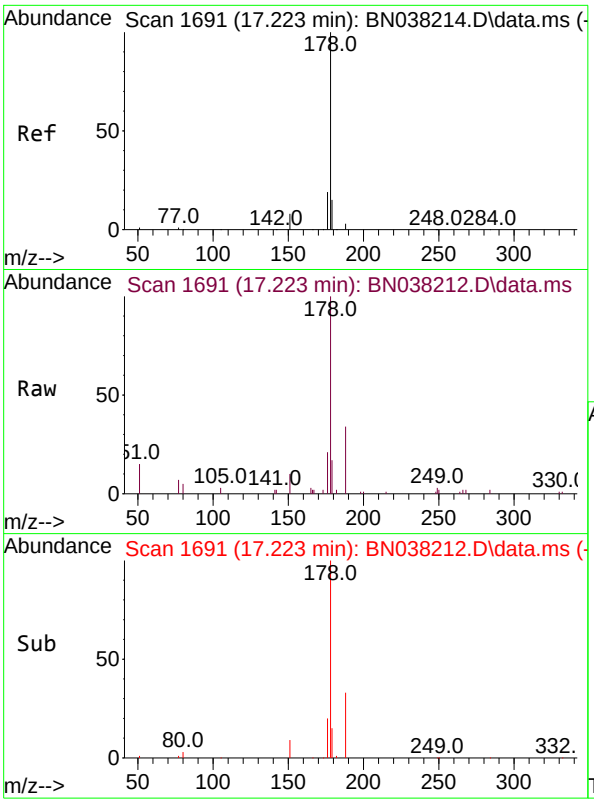


#23
Atrazine
Concen: 0.093 ng
RT: 16.652 min Scan# 1645
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:200 Resp: 918

Ion	Ratio	Lower	Upper
200	100		
173	36.9	21.0	31.6#
215	50.8	37.8	56.8

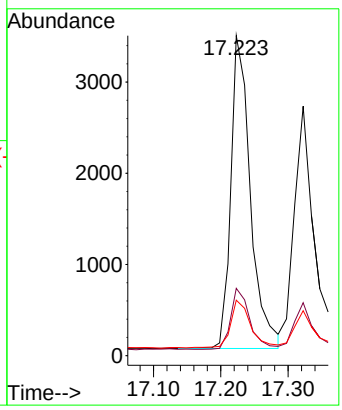




#25
Phenanthrene
Concen: 0.099 ng
RT: 17.223 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:178 Resp: 693

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.6	12.0	18.0



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

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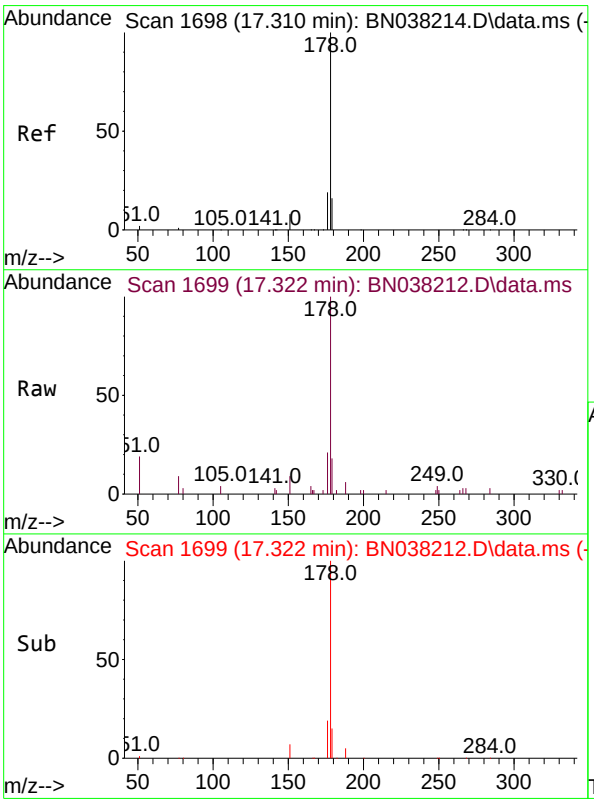
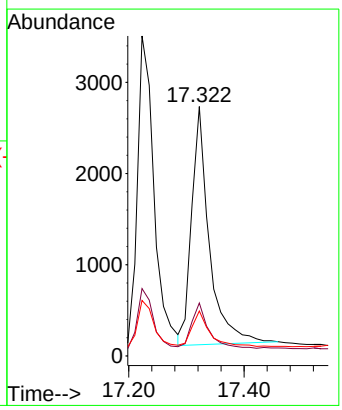
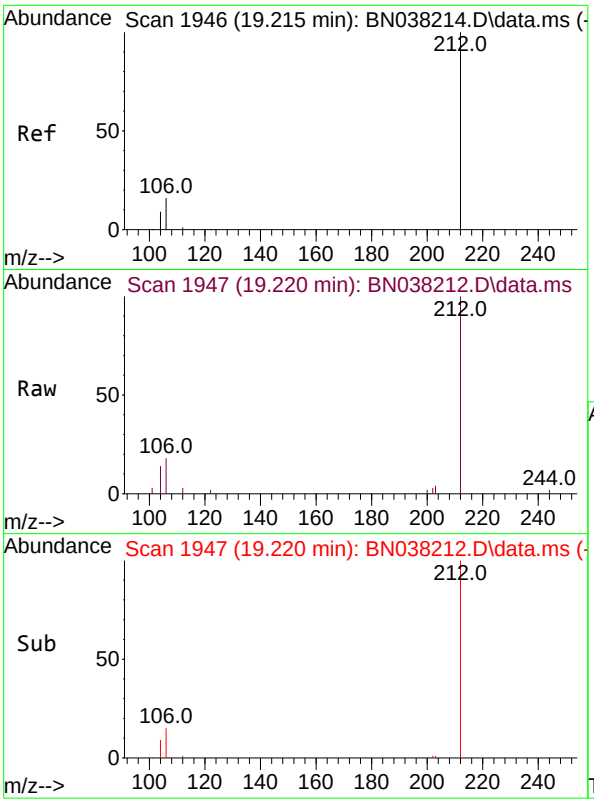


#26
Anthracene
Concen: 0.093 ng
RT: 17.322 min Scan# 1699
Delta R.T. 0.013 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:178 Resp: 5536

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.7	22.1
179	15.5	12.3	18.5

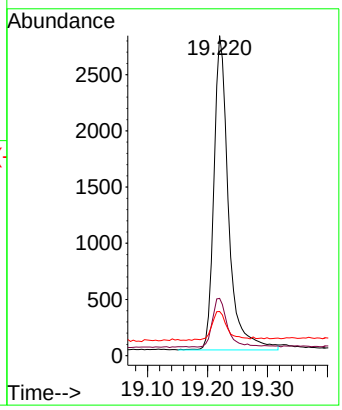




#27
Fluoranthene-d10
Concen: 0.098 ng
RT: 19.220 min Scan# 19
Delta R.T. 0.005 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:212 Resp: 474

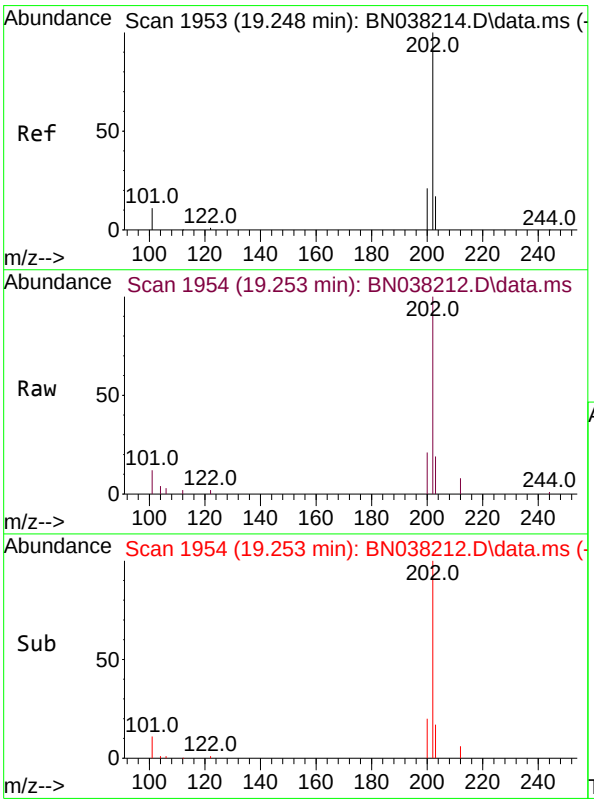
Ion	Ratio	Lower	Upper
212	100		
106	15.8	12.7	19.1
104	9.8	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

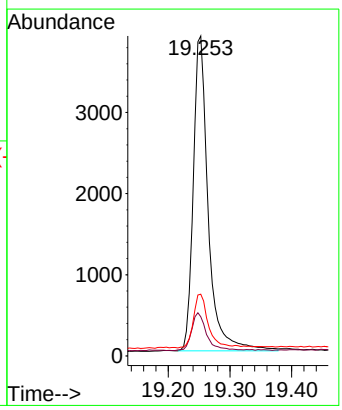
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

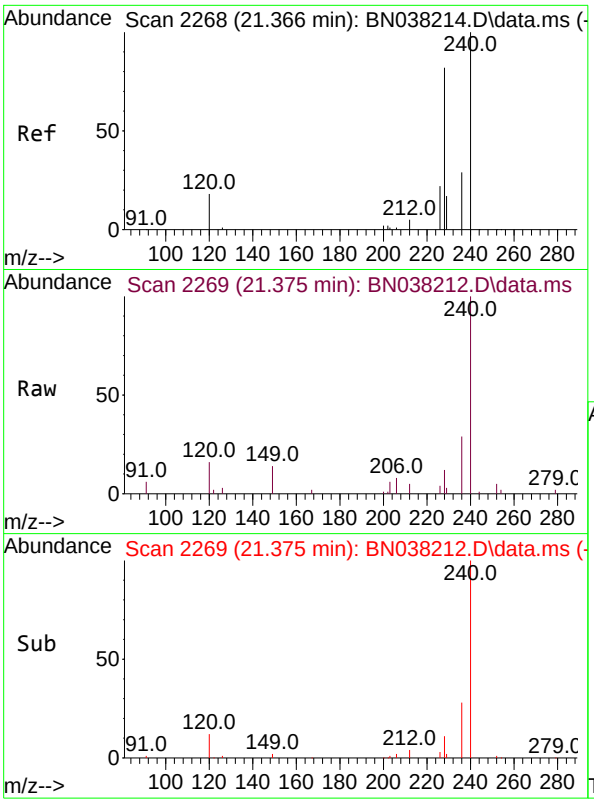


#28
Fluoranthene
Concen: 0.097 ng
RT: 19.253 min Scan# 1954
Delta R.T. 0.005 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:202 Resp: 6527

Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.8	14.6
203	16.8	13.6	20.4

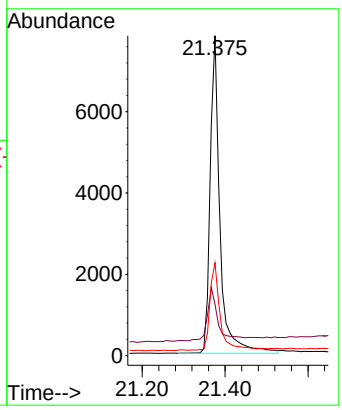




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.375 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:240 Resp: 1284

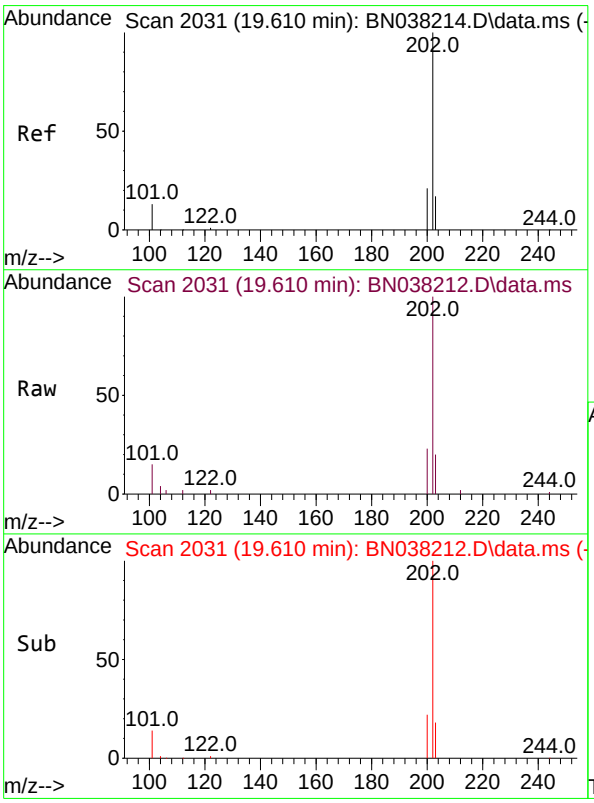
Ion	Ratio	Lower	Upper
240	100		
120	16.0	18.1	27.1#
236	29.0	24.2	36.4



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

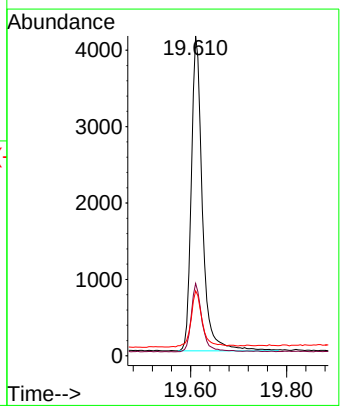
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

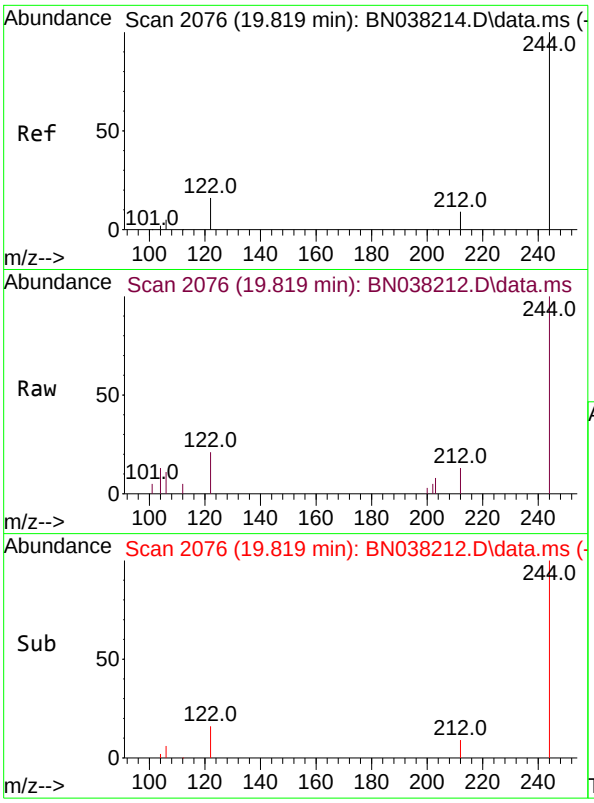


#30
Pyrene
Concen: 0.103 ng
RT: 19.610 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:202 Resp: 6634

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	18.0	14.4	21.6

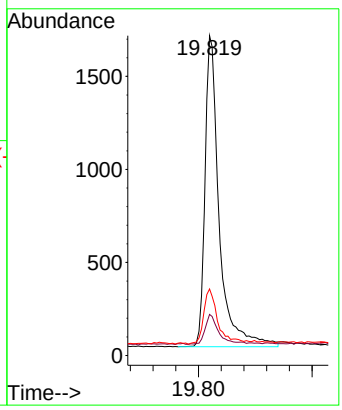




#31
Terphenyl-d14
Concen: 0.098 ng
RT: 19.819 min Scan# 20
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:244 Resp: 2901

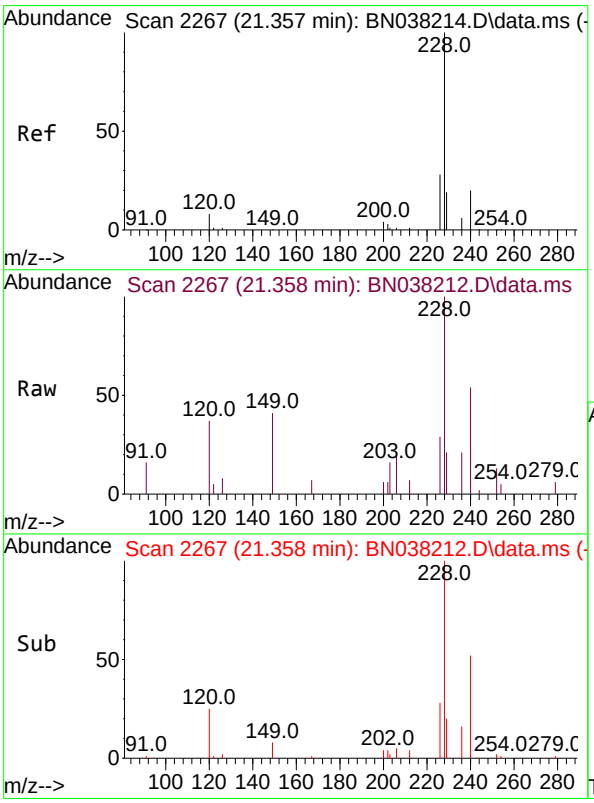
Ion	Ratio	Lower	Upper
244	100		
212	12.9	7.7	11.5#
122	20.8	13.6	20.4#



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

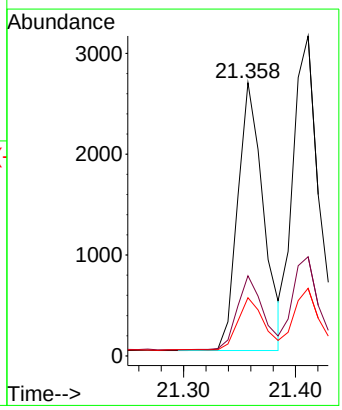
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

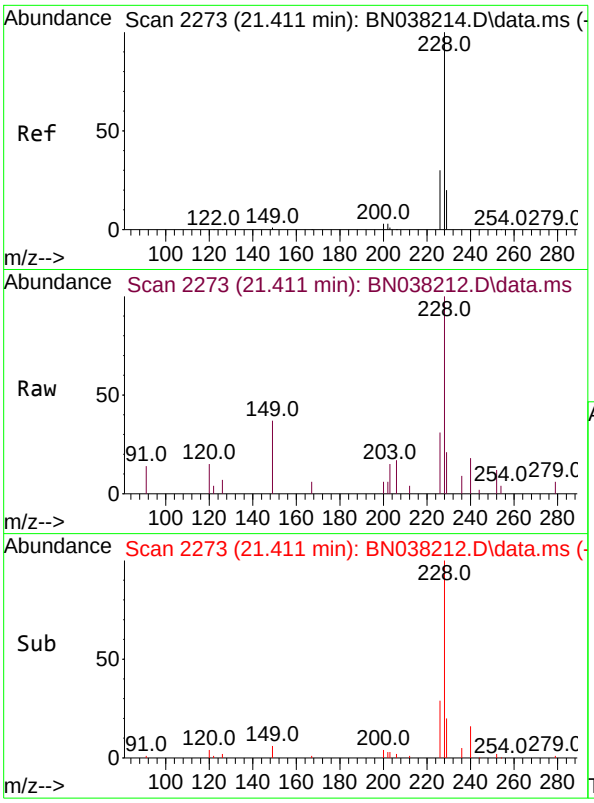


#32
Benzo(a)anthracene
Concen: 0.097 ng
RT: 21.358 min Scan# 2267
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:228 Resp: 4241

Ion	Ratio	Lower	Upper
228	100		
226	29.3	22.6	33.8
229	21.3	15.8	23.8

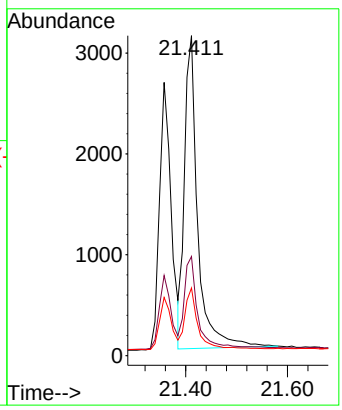




#33
Chrysene
Concen: 0.109 ng
RT: 21.411 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:228 Resp: 559

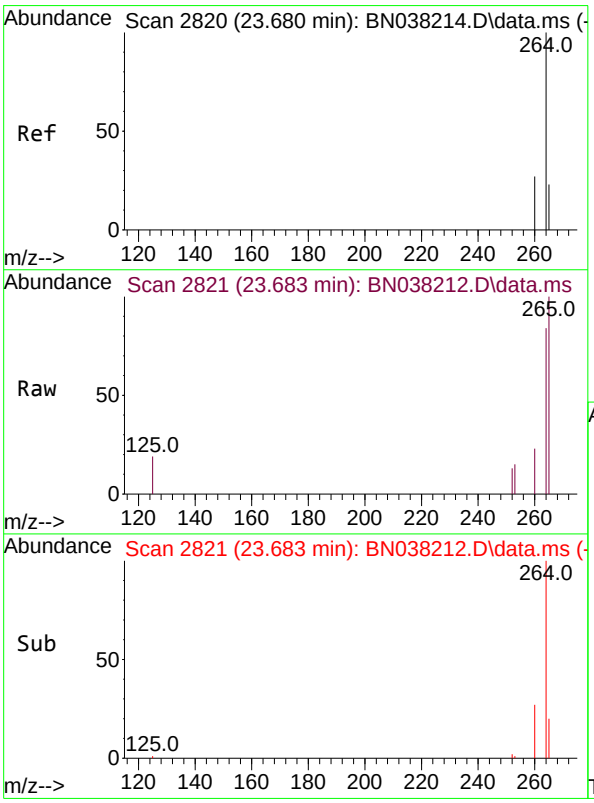
Ion	Ratio	Lower	Upper
228	100		
226	31.0	23.8	35.8
229	21.1	16.1	24.1



Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

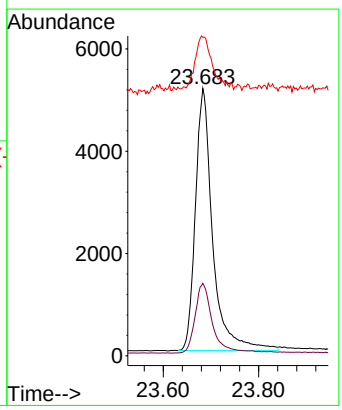
Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

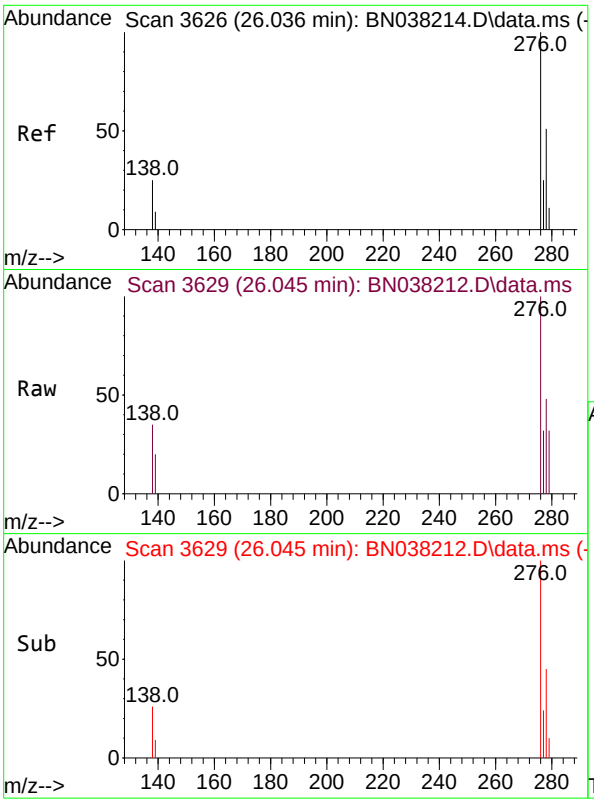


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.683 min Scan# 2821
Delta R.T. 0.003 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:264 Resp: 12898

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.7	32.5
265	119.1	98.0	147.0





#36
Indeno(1,2,3-cd)pyrene
Concen: 0.094 ng
RT: 26.045 min Scan# 3
Delta R.T. 0.009 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

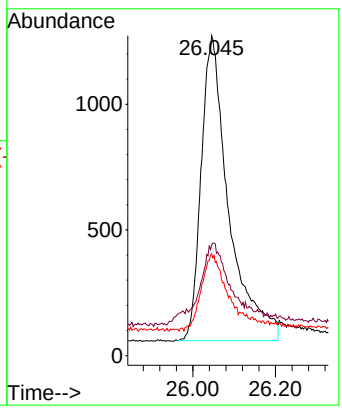
Tgt Ion:276 Resp: 563

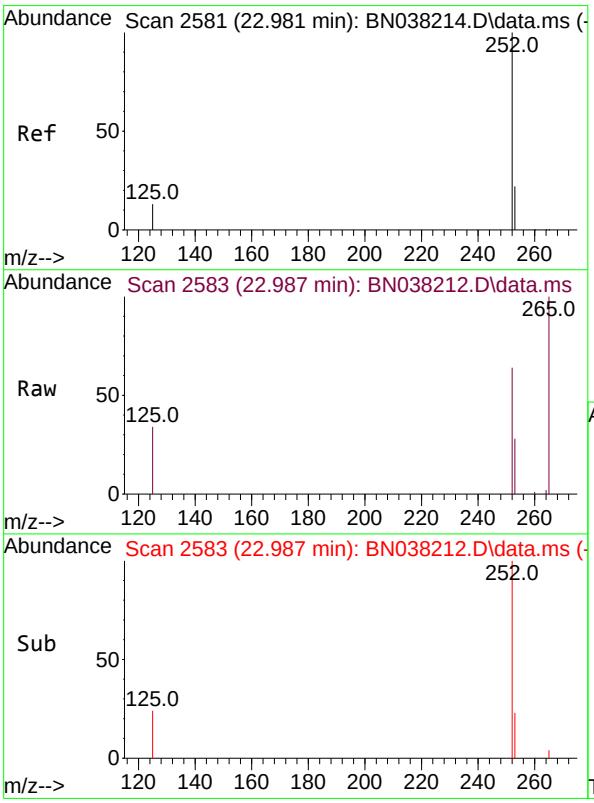
Ion	Ratio	Lower	Upper
276	100		
138	20.5	21.4	32.2#
277	22.5	19.1	28.7

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

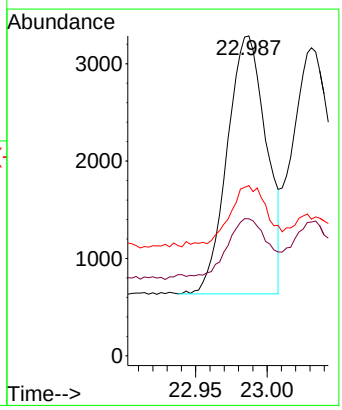


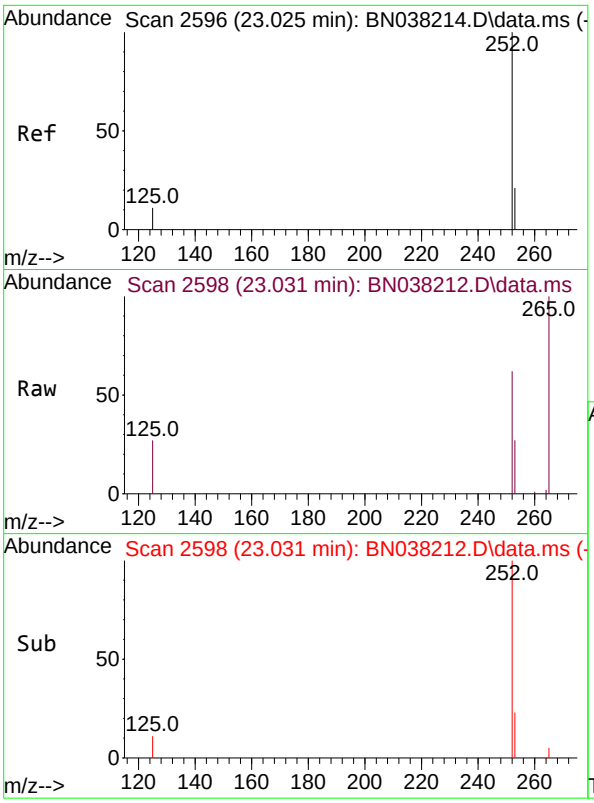


#37
Benzo(b)fluoranthene
Concen: 0.095 ng
RT: 22.987 min Scan# 2583
Delta R.T. 0.006 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:252 Resp: 5040

Ion	Ratio	Lower	Upper
252	100		
253	42.8	22.2	33.4#
125	53.2	18.0	27.0#





#38
Benzo(k)fluoranthene
Concen: 0.095 ng
RT: 23.031 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

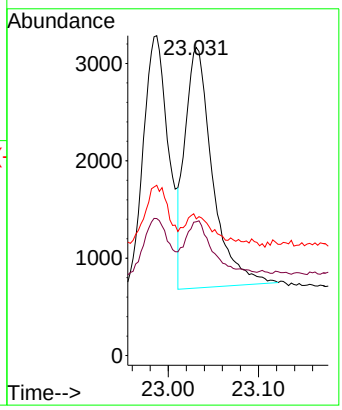
Tgt Ion:252 Resp: 524

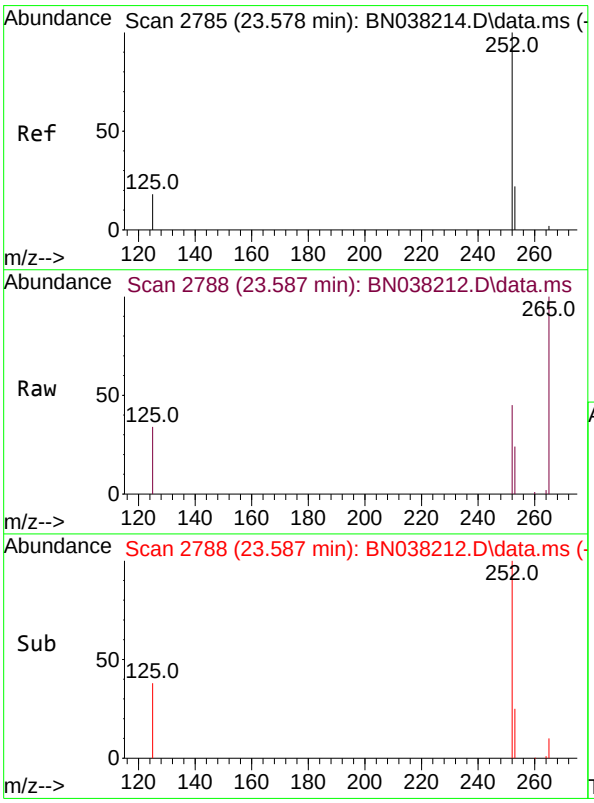
Ion	Ratio	Lower	Upper
252	100		
253	43.4	22.4	33.6#
125	44.4	17.5	26.3#

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

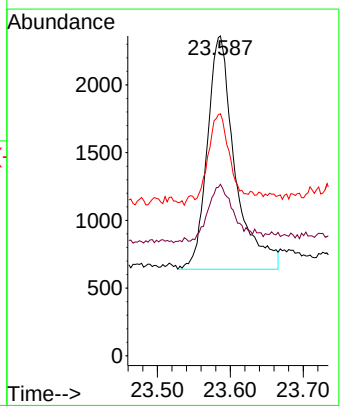


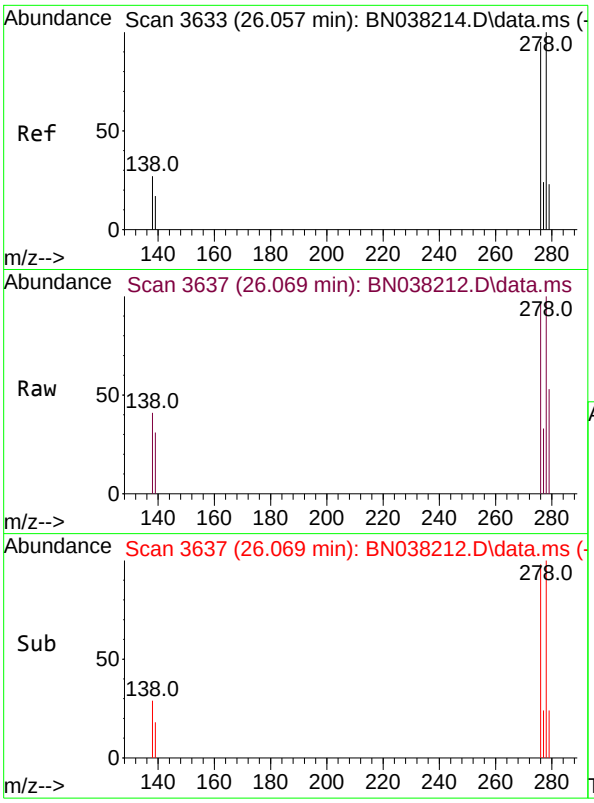


#39
Benzo(a)pyrene
Concen: 0.103 ng
RT: 23.587 min Scan# 2788
Delta R.T. 0.009 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:252 Resp: 4558

Ion	Ratio	Lower	Upper
252	100		
253	53.6	25.3	37.9#
125	75.7	25.2	37.8#





#40
Dibenzo(a,h)anthracene
Concen: 0.090 ng
RT: 26.069 min Scan# 3
Delta R.T. 0.012 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

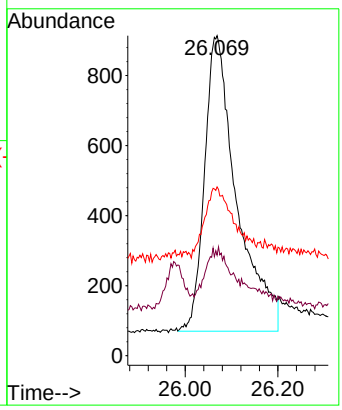
Tgt Ion:278 Resp: 407

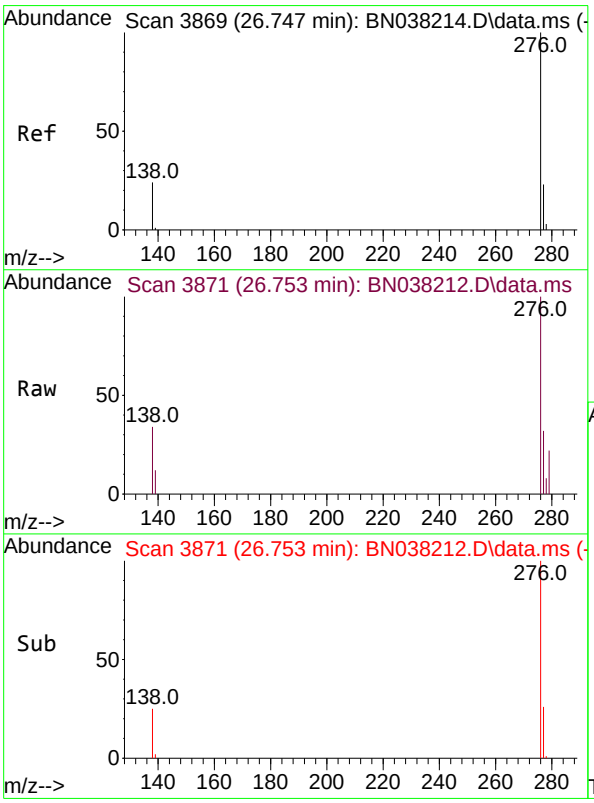
Ion	Ratio	Lower	Upper
278	100		
139	31.4	17.6	26.4#
279	52.7	24.2	36.4#

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/02/2025
Supervised By :mohammad ahmed 12/03/2025

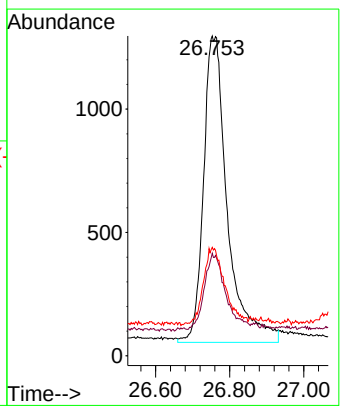




#41
Benzo(g,h,i)perylene
Concen: 0.103 ng m
RT: 26.753 min Scan# 3871
Delta R.T. 0.006 min
Lab File: BN038212.D
Acq: 26 Nov 2025 20:35

Tgt Ion:276 Resp: 5553

Ion	Ratio	Lower	Upper
276	100		
277	32.1	20.2	30.2#
138	33.9	20.8	31.2#



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038213.D
Acq On : 26 Nov 2025 21:12
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Nov 28 20:54:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.768	152	8206	0.400	ng		0.00
7) Naphthalene-d8	10.573	136	24762	0.400	ng		0.00
13) Acenaphthene-d10	14.430	164	13187	0.400	ng		0.00
19) Phenanthrene-d10	17.186	188	19574	0.400	ng	#	0.00
29) Chrysene-d12	21.375	240	12487	0.400	ng	#	0.00
35) Perylene-d12	23.680	264	12455	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.341	112	3817	0.199	ng		0.00
5) Phenol-d6	6.937	99	4526	0.189	ng		0.00
8) Nitrobenzene-d5	8.918	82	3887	0.196	ng		0.00
11) 2-Methylnaphthalene-d10	12.172	152	6785	0.193	ng		0.00
14) 2,4,6-Tribromophenol	15.932	330	657	0.158	ng		0.00
15) 2-Fluorobiphenyl	13.051	172	10212	0.200	ng		0.00
27) Fluoranthene-d10	19.220	212	8268	0.195	ng		0.00
31) Terphenyl-d14	19.824	244	5290	0.183	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.254	88	1986	0.230	ng		90
3) n-Nitrosodimethylamine	3.564	42	2003	0.188	ng		97
6) bis(2-Chloroethyl)ether	7.190	93	4586	0.200	ng		98
9) Naphthalene	10.616	128	13644	0.198	ng		99
10) Hexachlorobutadiene	10.914	225	2378	0.203	ng	#	98
12) 2-Methylnaphthalene	12.243	142	8631	0.191	ng		99
16) Acenaphthylene	14.152	152	11108	0.188	ng		99
17) Acenaphthene	14.494	154	7968	0.194	ng		98
18) Fluorene	15.489	166	9508	0.179	ng		98
20) 4,6-Dinitro-2-methylph...	15.597	198	206	0.227	ng	#	1
21) 4-Bromophenyl-phenylether	16.379	248	2619	0.193	ng	#	85
22) Hexachlorobenzene	16.491	284	3585	0.215	ng		99
23) Atrazine	16.652	200	1535	0.177	ng	#	95
24) Pentachlorophenol	16.851	266	882	0.193	ng		94
25) Phenanthrene	17.223	178	11817	0.192	ng		99
26) Anthracene	17.322	178	9765	0.186	ng		100
28) Fluoranthene	19.248	202	11226	0.190	ng		99
30) Pyrene	19.610	202	11263	0.181	ng		100
32) Benzo(a)anthracene	21.357	228	7938	0.188	ng		98
33) Chrysene	21.411	228	10232	0.205	ng		98
34) Bis(2-ethylhexyl)phtha...	21.286	149	4872	0.210	ng		100
36) Indeno(1,2,3-cd)pyrene	26.039	276	10679	0.185	ng		96
37) Benzo(b)fluoranthene	22.984	252	9683	0.189	ng	#	84
38) Benzo(k)fluoranthene	23.028	252	10204	0.192	ng	#	86
39) Benzo(a)pyrene	23.581	252	7993	0.187	ng	#	76
40) Dibenzo(a,h)anthracene	26.054	278	7682	0.176	ng	#	86
41) Benzo(g,h,i)perylene	26.753	276	9876	0.190	ng		97

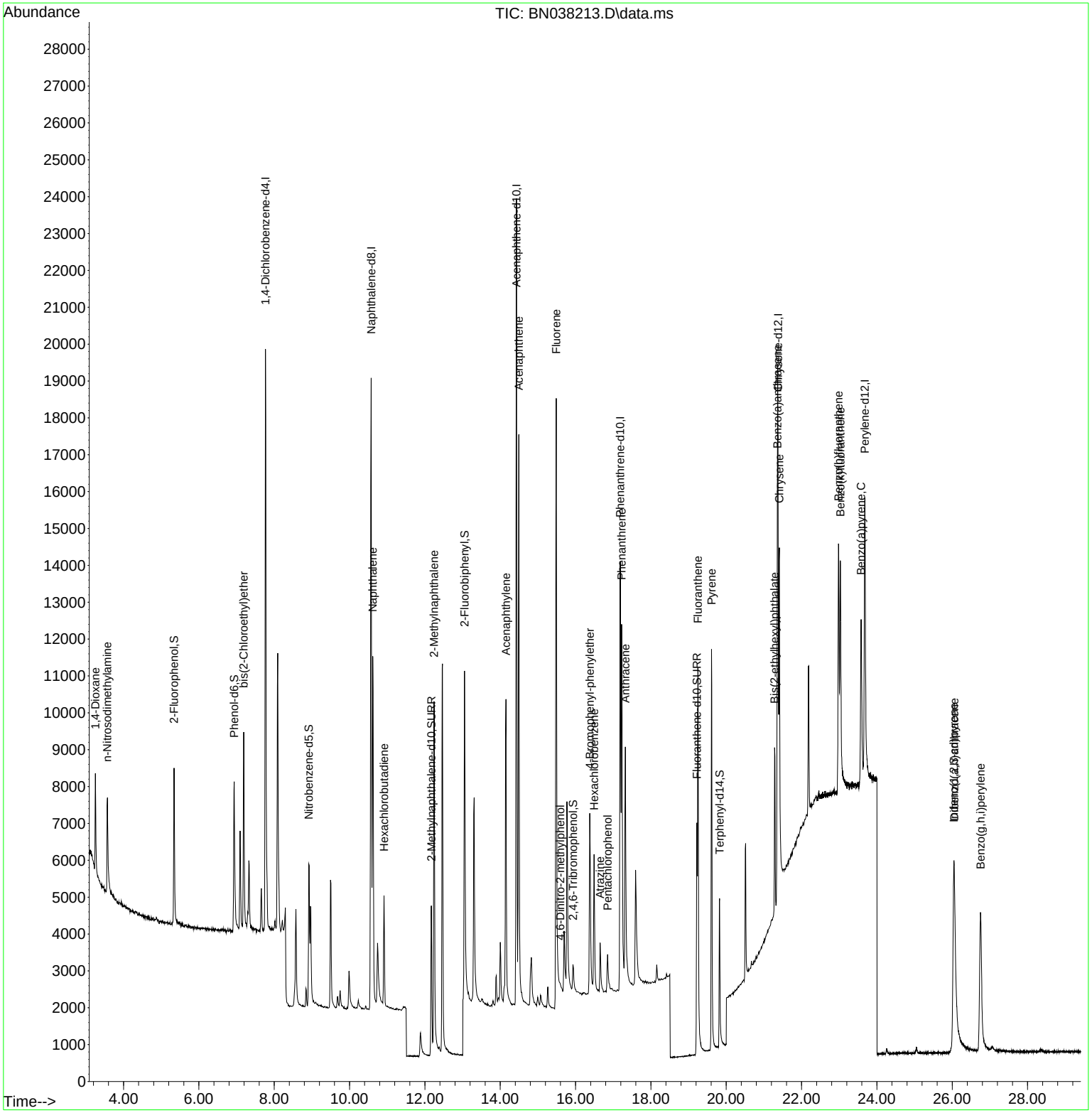
(#) = qualifier out of range (m) = manual integration (+) = signals summed

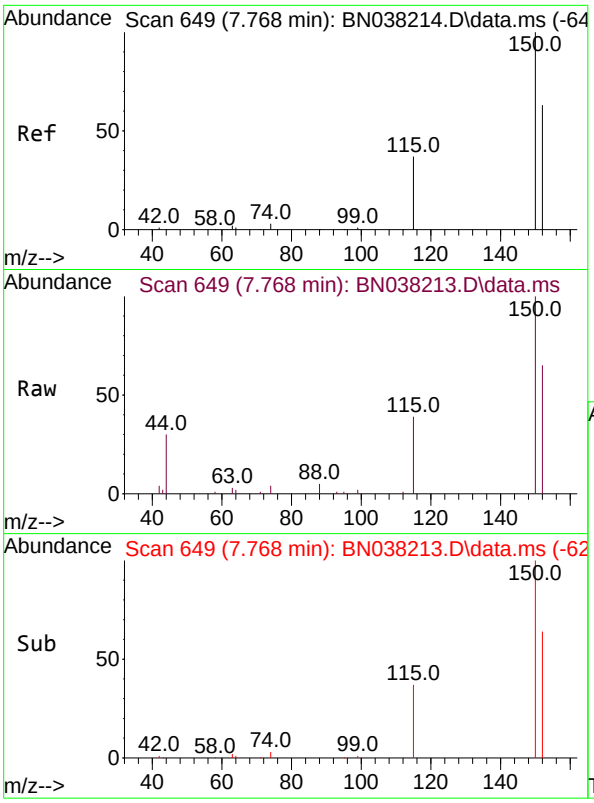
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038213.D
Acq On : 26 Nov 2025 21:12
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Nov 28 20:54:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 2025
Response via : Initial Calibration



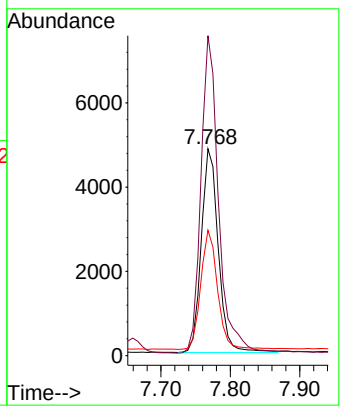


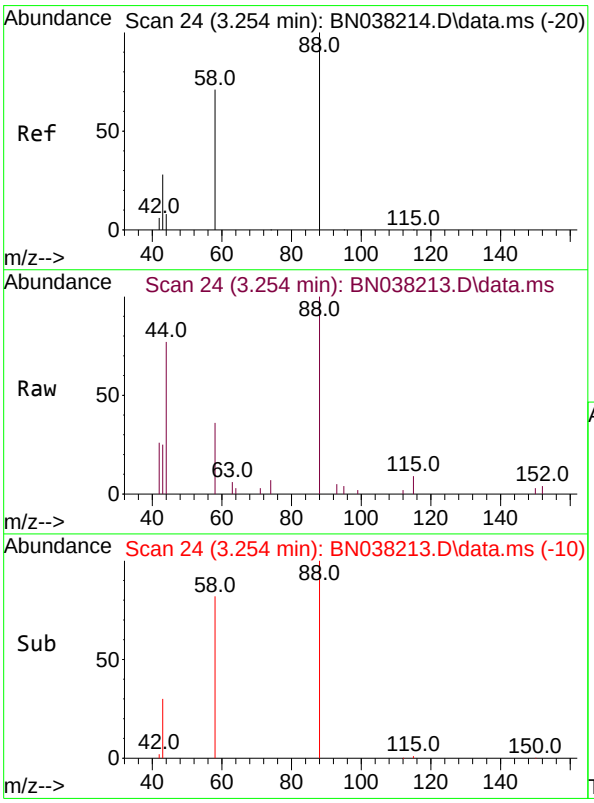
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.768 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 8206

Ion	Ratio	Lower	Upper
152	100		
150	154.7	125.3	187.9
115	60.6	49.0	73.4

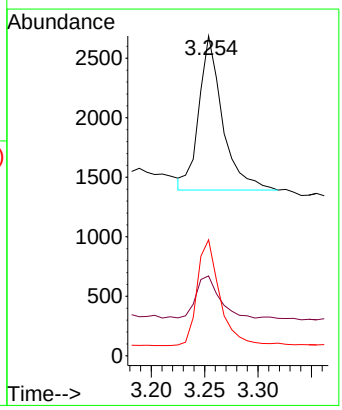


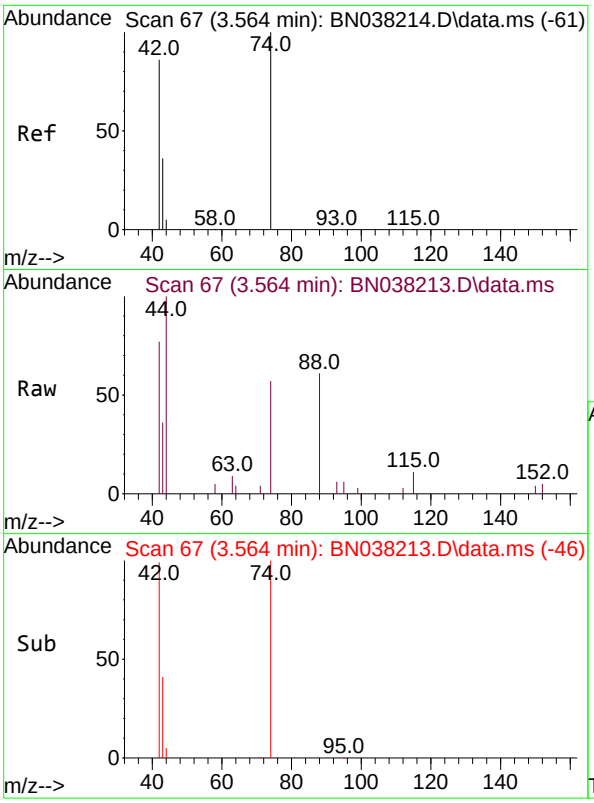


#2
1,4-Dioxane
Concen: 0.230 ng
RT: 3.254 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion: 88 Resp: 1986

Ion	Ratio	Lower	Upper
88	100		
43	28.2	24.8	37.2
58	66.3	61.1	91.7



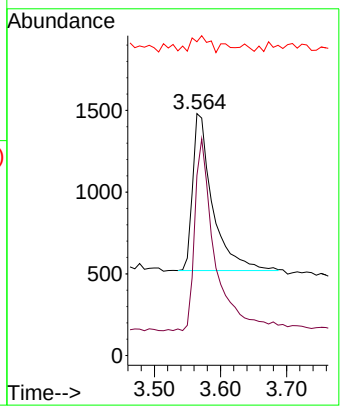


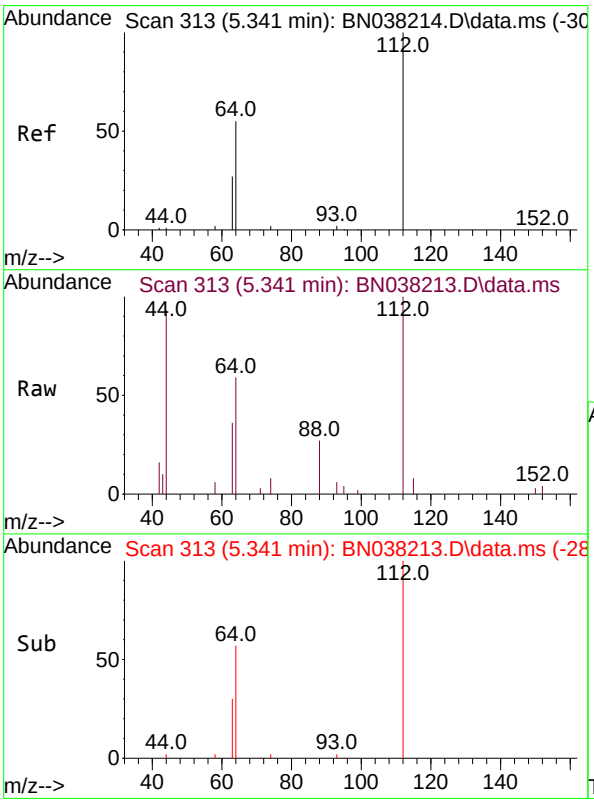
#3
n-Nitrosodimethylamine
Concen: 0.188 ng
RT: 3.564 min Scan# 6
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 2003

Ion	Ratio	Lower	Upper
42	100		
74	124.3	96.2	144.2
44	9.6	8.0	12.0

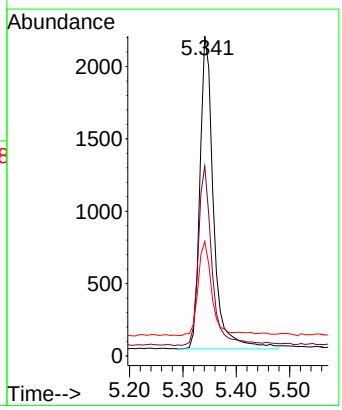


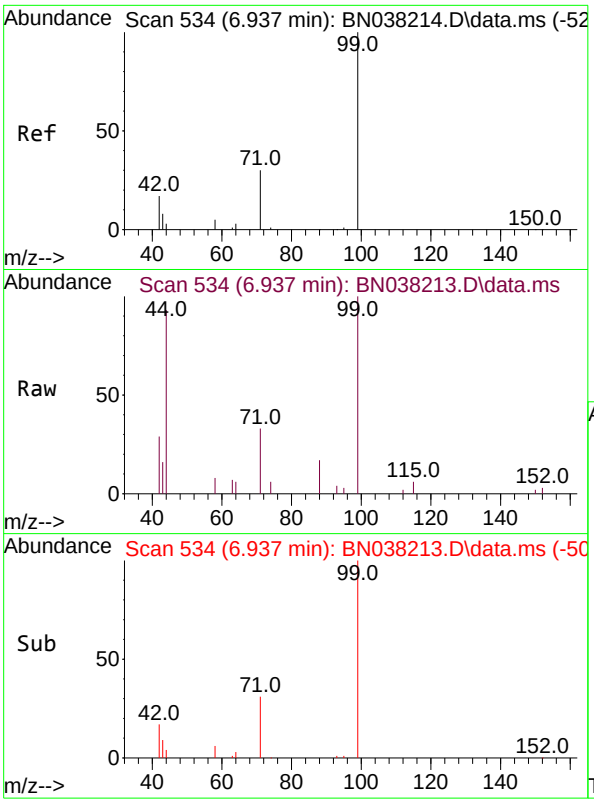


#4
2-Fluorophenol
Concen: 0.199 ng
RT: 5.341 min Scan# 313
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:112 Resp: 3817

Ion	Ratio	Lower	Upper
112	100		
64	57.3	45.0	67.4
63	30.5	23.2	34.8



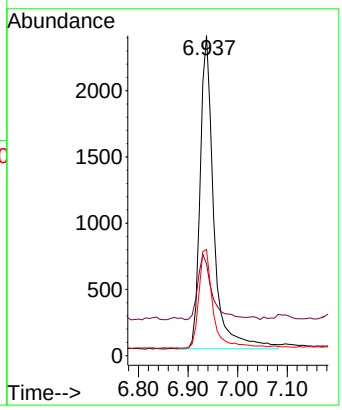


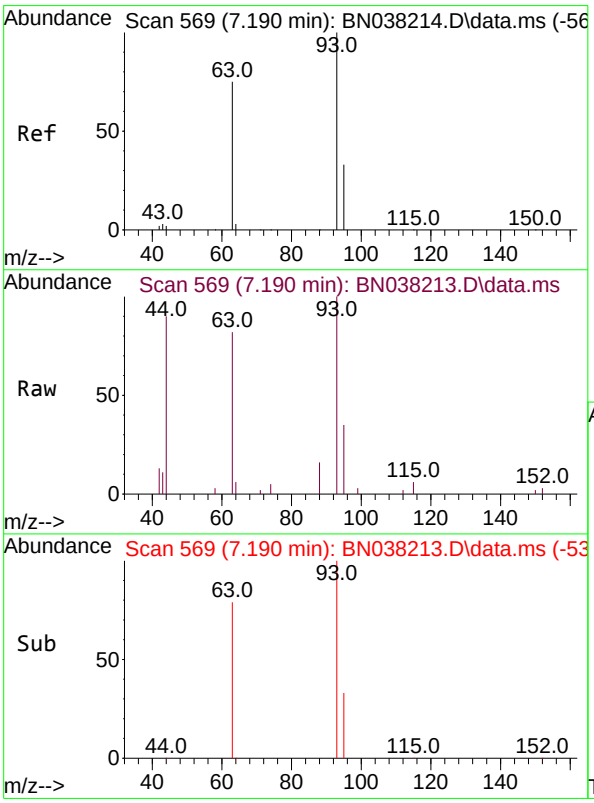
#5
Phenol-d6
Concen: 0.189 ng
RT: 6.937 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 4526

Ion	Ratio	Lower	Upper
99	100		
42	21.5	17.0	25.6
71	32.7	25.4	38.2

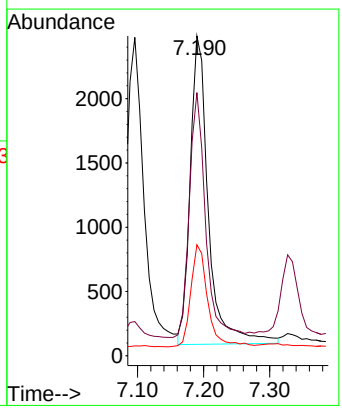


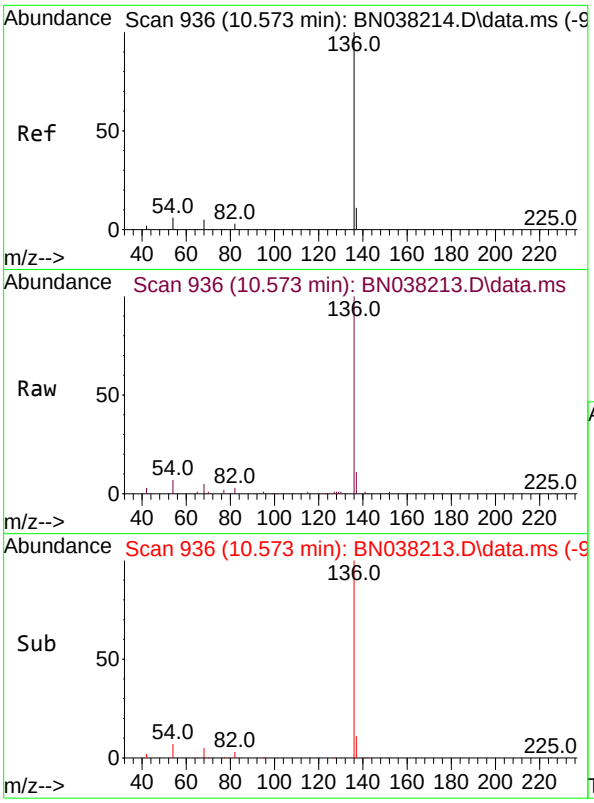


#6
bis(2-Chloroethyl)ether
Concen: 0.200 ng
RT: 7.190 min Scan# 569
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion: 93 Resp: 4586

Ion	Ratio	Lower	Upper
93	100		
63	70.6	58.1	87.1
95	30.7	25.1	37.7



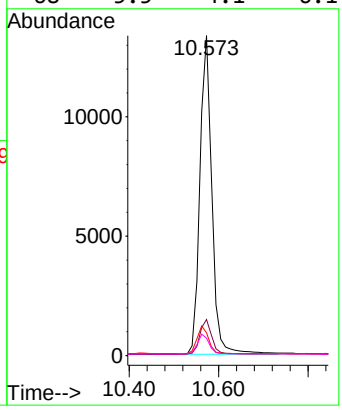


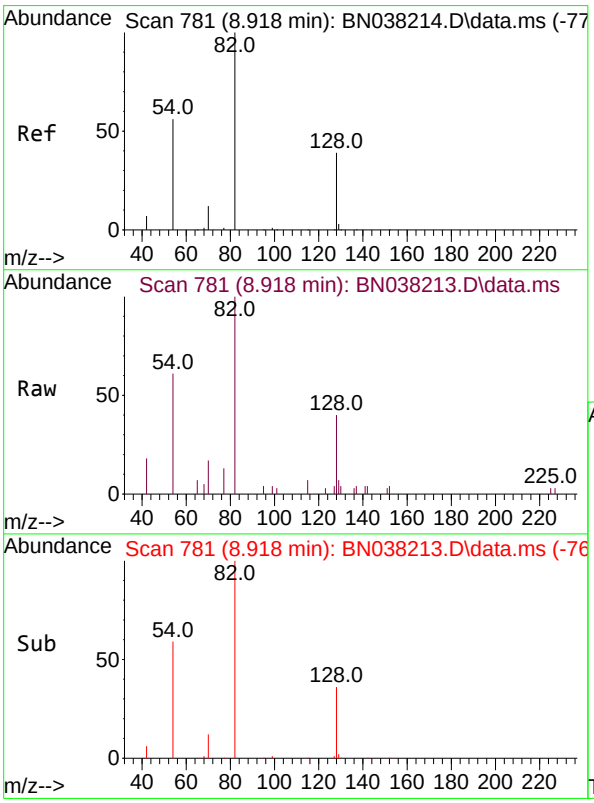
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.573 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 24762

Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.9	13.3
54	7.1	5.4	8.0
68	5.5	4.1	6.1

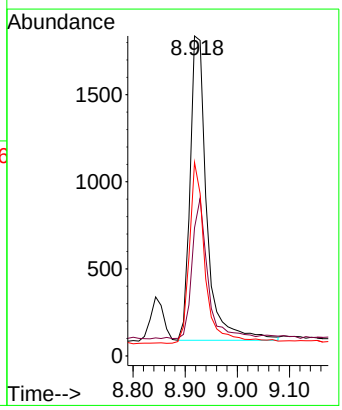


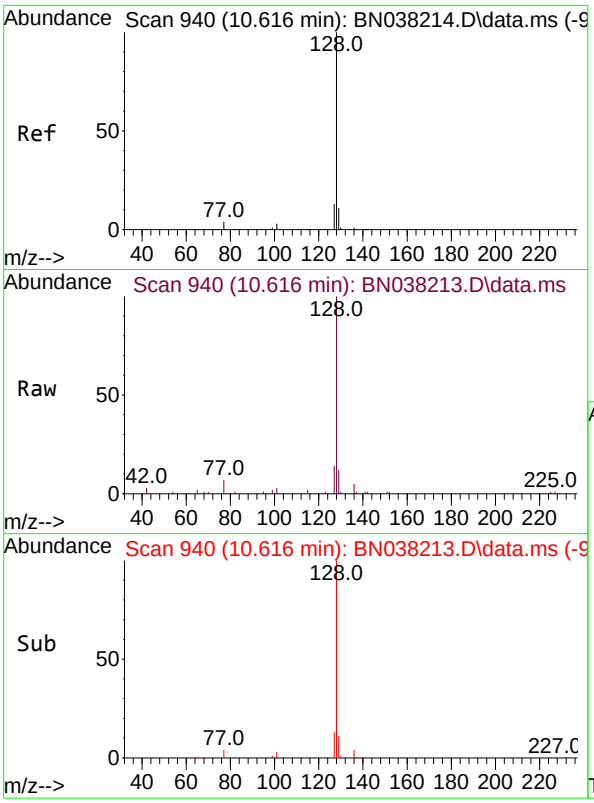


#8
Nitrobenzene-d5
Concen: 0.196 ng
RT: 8.918 min Scan# 781
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion: 82 Resp: 3887

Ion	Ratio	Lower	Upper
82	100		
128	40.0	32.6	48.8
54	60.5	45.4	68.0



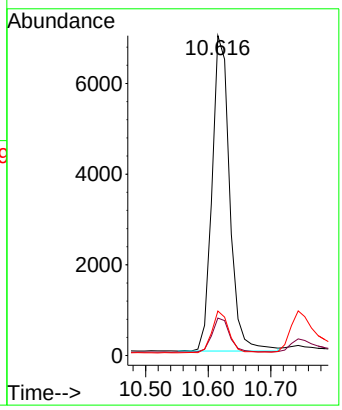


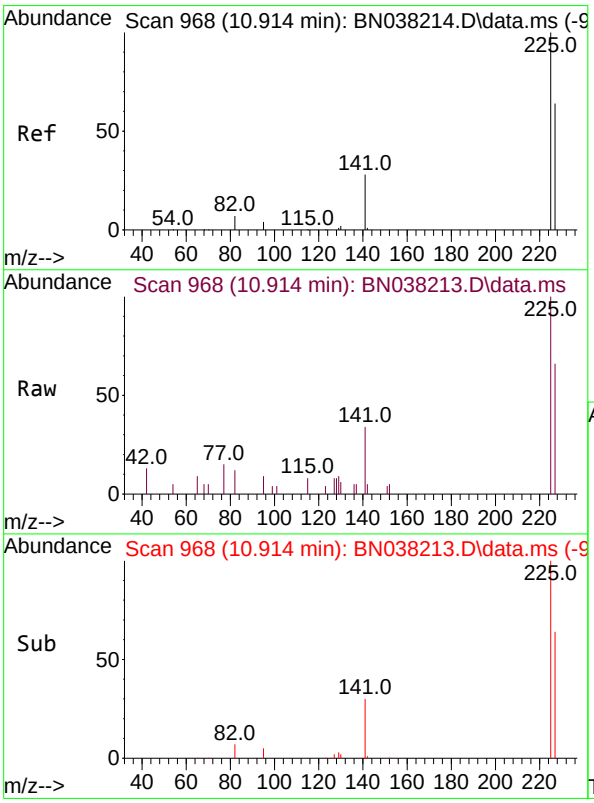
#9
Naphthalene
Concen: 0.198 ng
RT: 10.616 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 13644

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.1	13.7
127	13.9	10.6	16.0

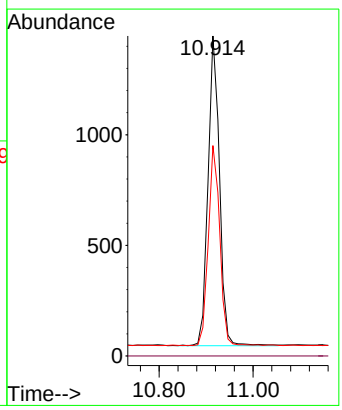


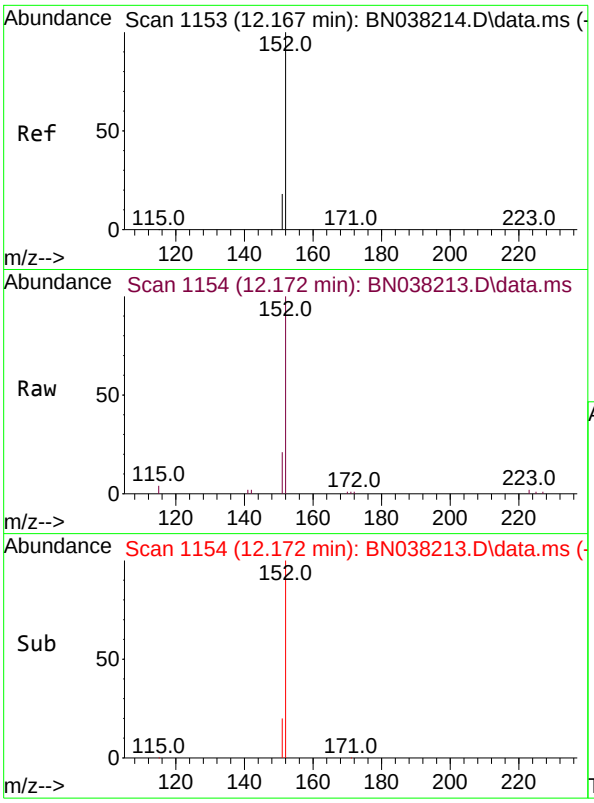


#10
Hexachlorobutadiene
Concen: 0.203 ng
RT: 10.914 min Scan# 968
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:225 Resp: 2378

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.4	50.5	75.7



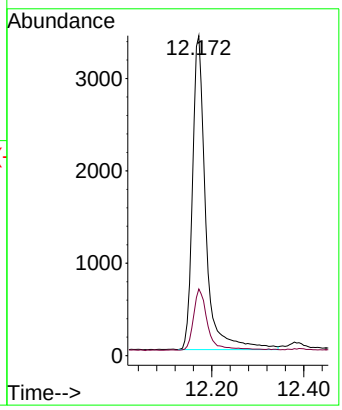


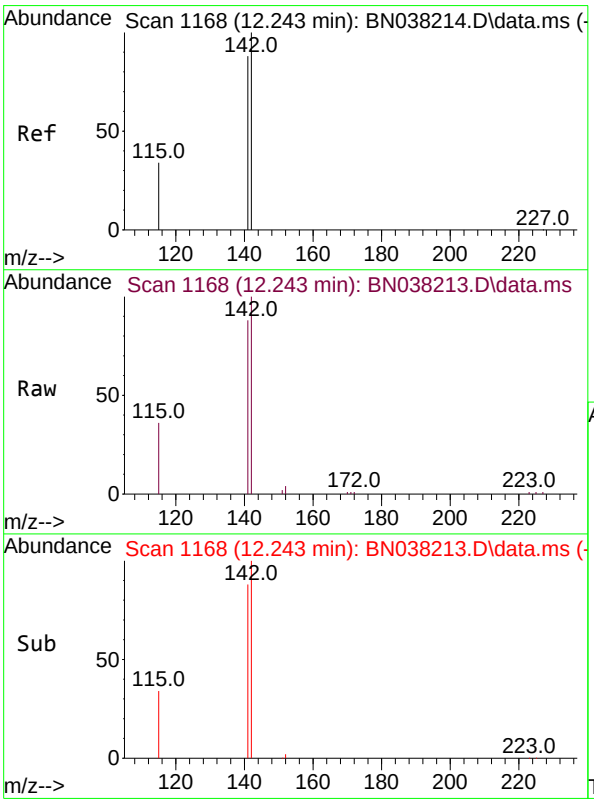
#11
2-Methylnaphthalene-d10
Concen: 0.193 ng
RT: 12.172 min Scan# 11
Delta R.T. 0.005 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 6785

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.7	25.1

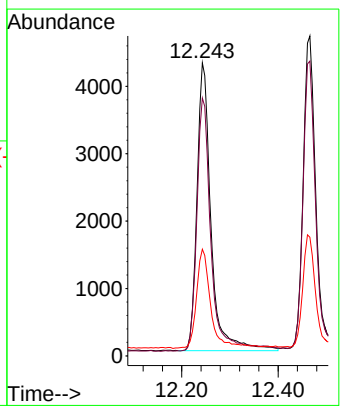


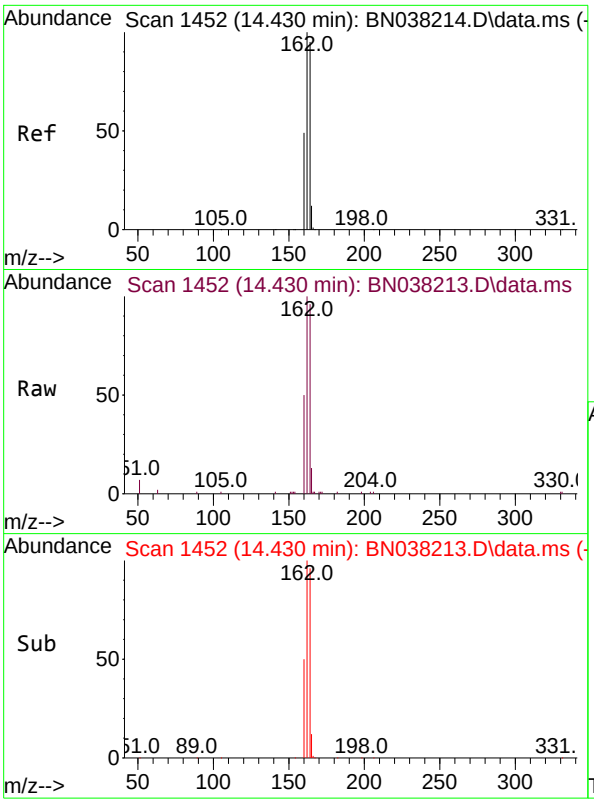


#12
2-Methylnaphthalene
Concen: 0.191 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:142 Resp: 8631

Ion	Ratio	Lower	Upper
142	100		
141	88.0	70.9	106.3
115	36.4	27.7	41.5



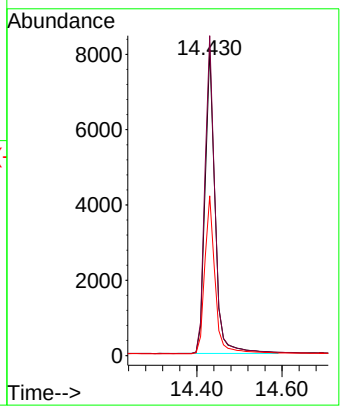


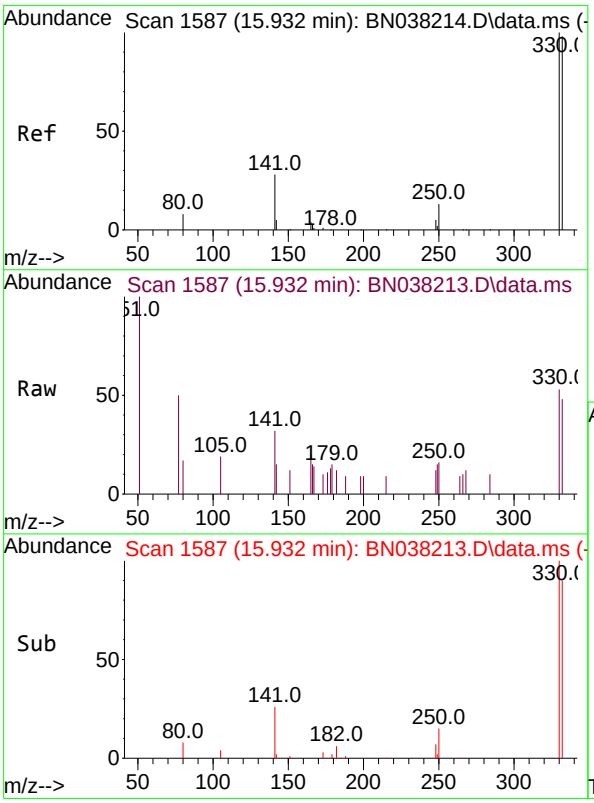
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 13187

Ion	Ratio	Lower	Upper
164	100		
162	104.5	83.8	125.8
160	52.2	41.6	62.4

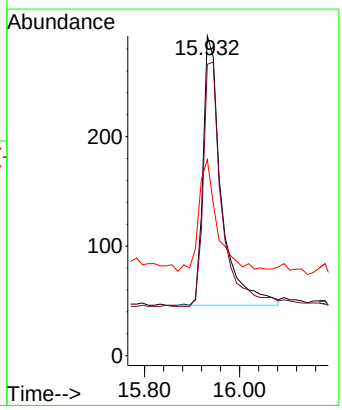


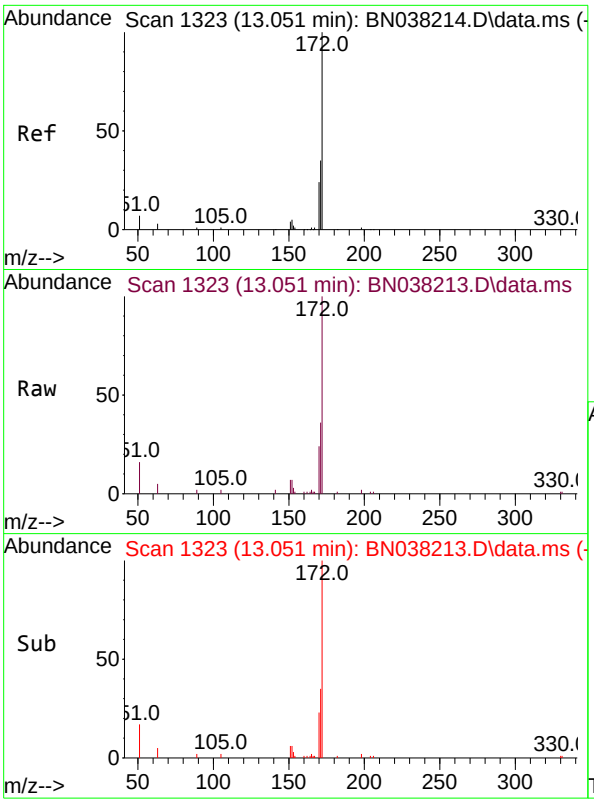


#14
2,4,6-Tribromophenol
Concen: 0.158 ng
RT: 15.932 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:330 Resp: 657

Ion	Ratio	Lower	Upper
330	100		
332	93.0	77.8	116.6
141	42.0	33.0	49.4



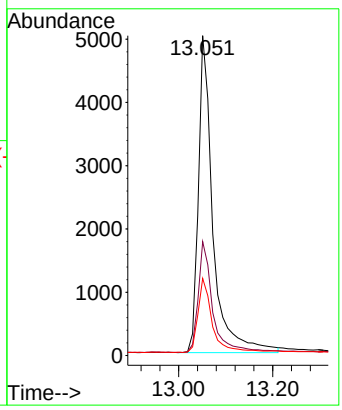


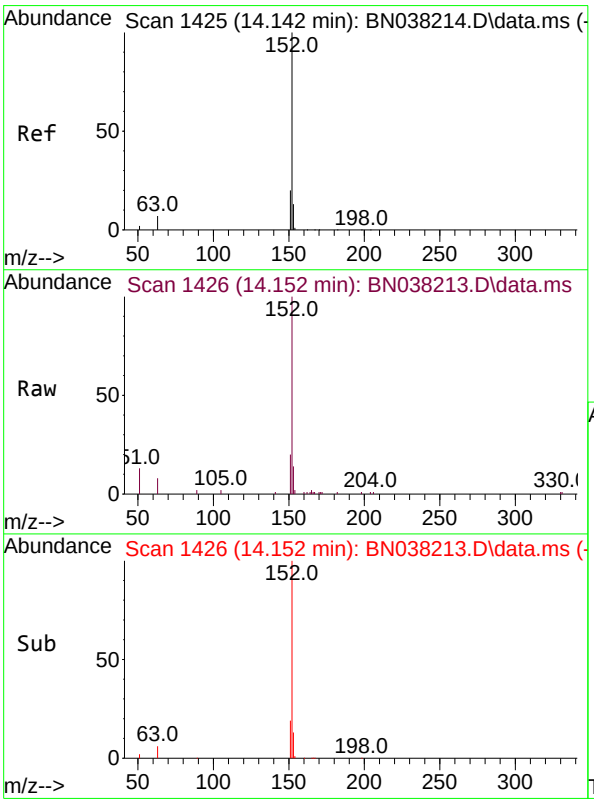
#15
2-Fluorobiphenyl
Concen: 0.200 ng
RT: 13.051 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 10212

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.1	42.1
170	24.1	19.1	28.7

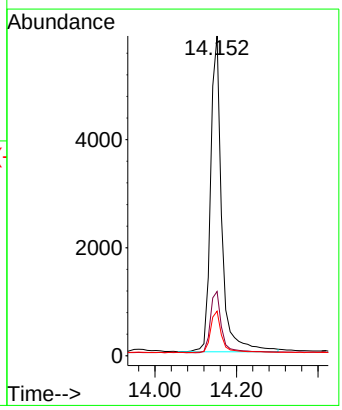


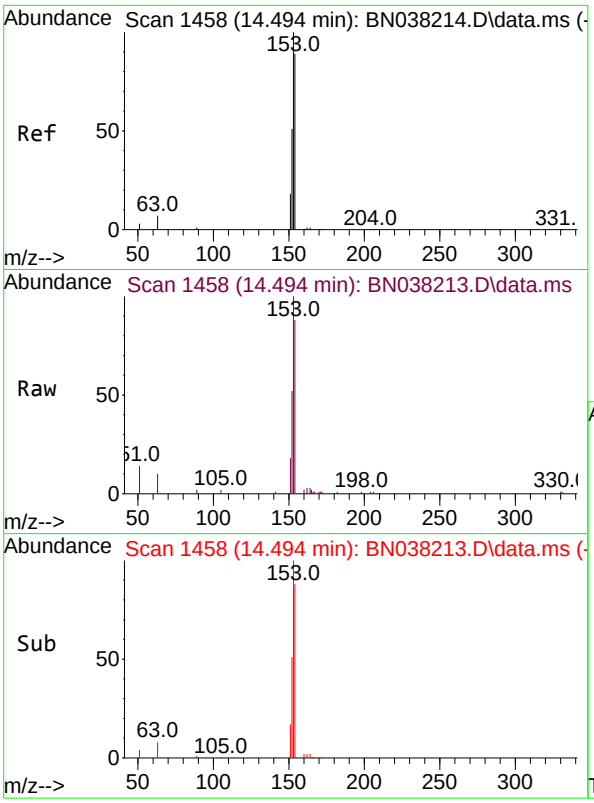


#16
Acenaphthylene
Concen: 0.188 ng
RT: 14.152 min Scan# 1426
Delta R.T. 0.011 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:152 Resp: 11108

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.6	23.4
153	13.2	10.6	15.8



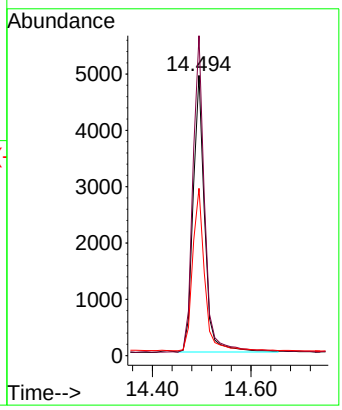


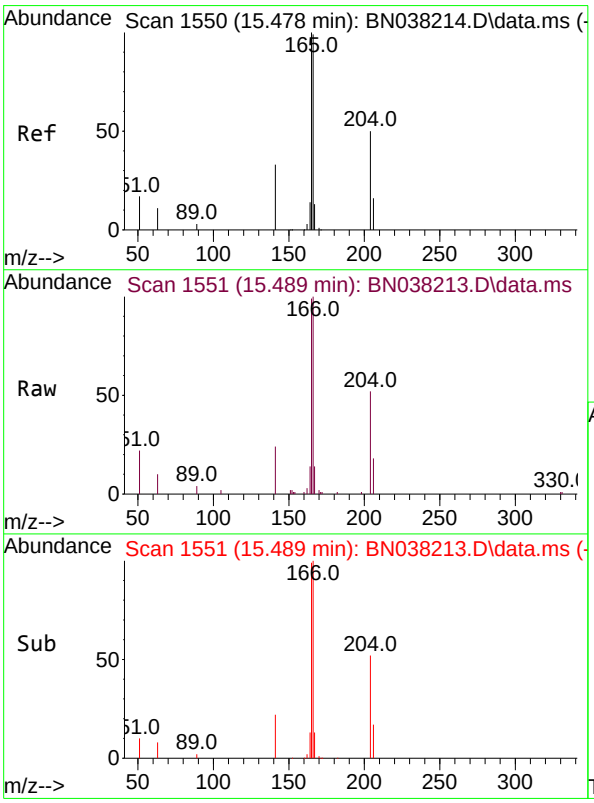
#17
Acenaphthene
Concen: 0.194 ng
RT: 14.494 min Scan# 14
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 7968

Ion	Ratio	Lower	Upper
154	100		
153	116.3	91.1	136.7
152	60.6	48.2	72.2

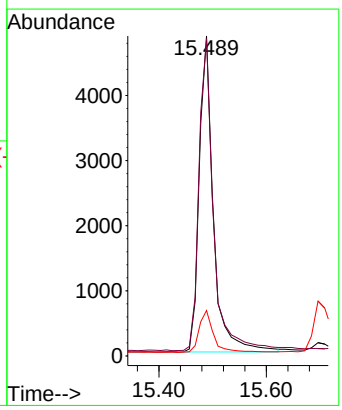


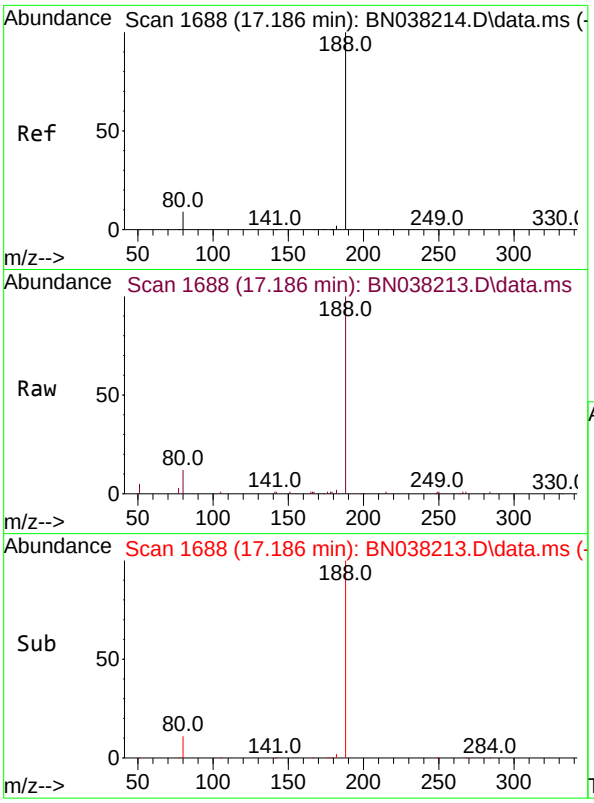


#18
Fluorene
Concen: 0.179 ng
RT: 15.489 min Scan# 1551
Delta R.T. 0.011 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:166 Resp: 9508

Ion	Ratio	Lower	Upper
166	100		
165	100.7	78.7	118.1
167	13.5	10.9	16.3



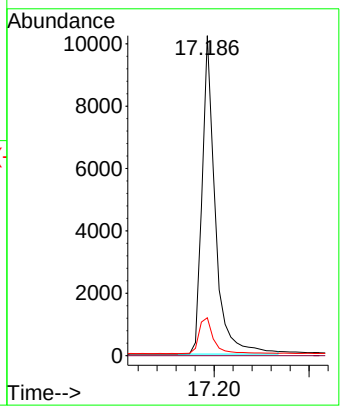


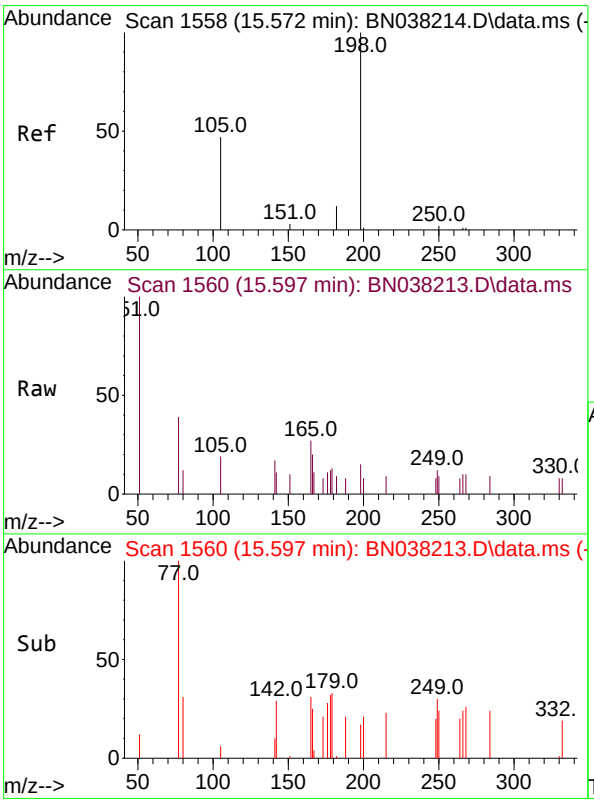
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 19574

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.8	7.7	11.5#

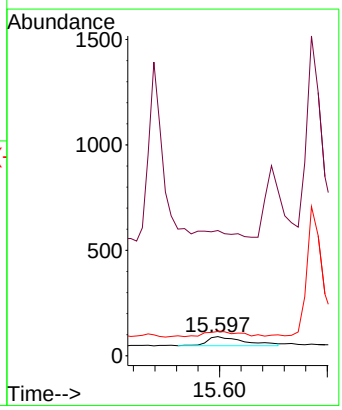


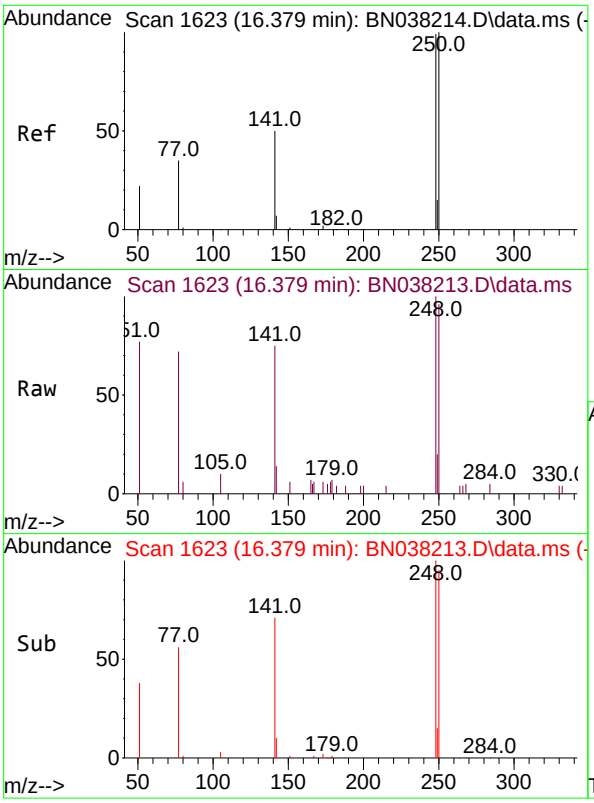


#20
4,6-Dinitro-2-methylphenol
Concen: 0.227 ng
RT: 15.597 min Scan# 1560
Delta R.T. 0.025 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:198 Resp: 206

Ion	Ratio	Lower	Upper
198	100		
51	652.7	205.1	307.7#
105	126.4	61.6	92.4#



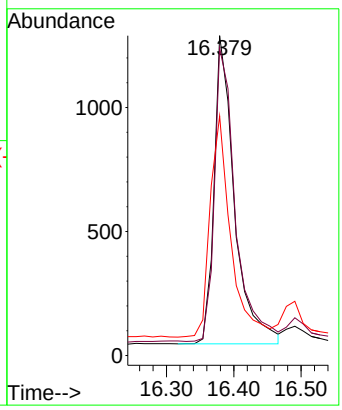


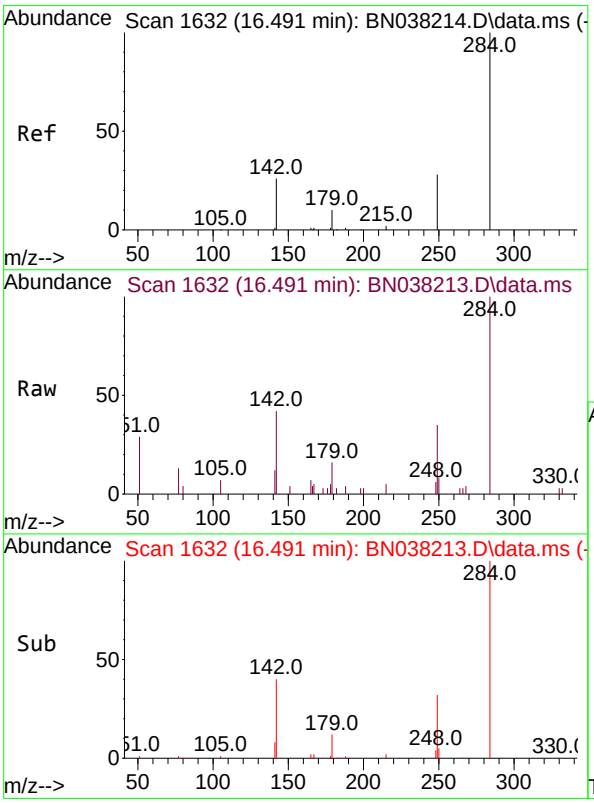
#21
4-Bromophenyl-phenylether
Concen: 0.193 ng
RT: 16.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 2619

Ion	Ratio	Lower	Upper
248	100		
250	96.1	80.8	121.2
141	74.9	41.0	61.6#

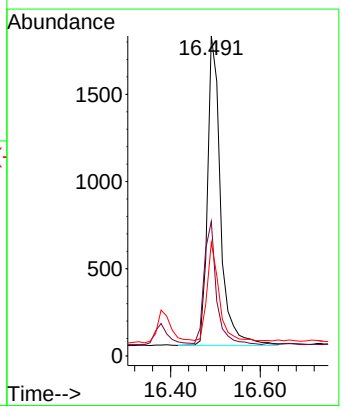


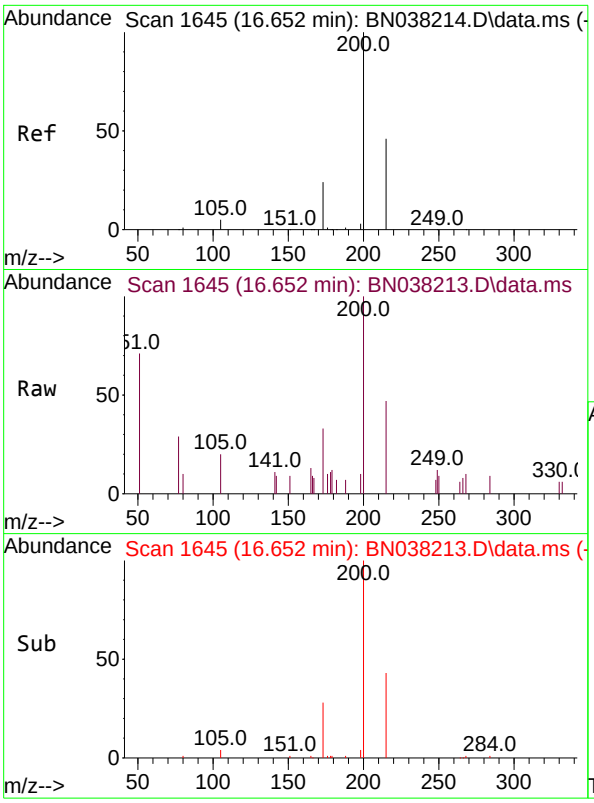


#22
Hexachlorobenzene
Concen: 0.215 ng
RT: 16.491 min Scan# 1632
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:284 Resp: 3585

Ion	Ratio	Lower	Upper
284	100		
142	37.4	30.5	45.7
249	29.1	23.8	35.8



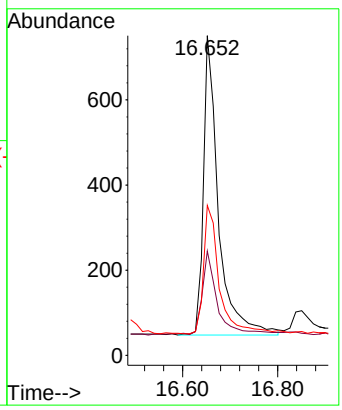


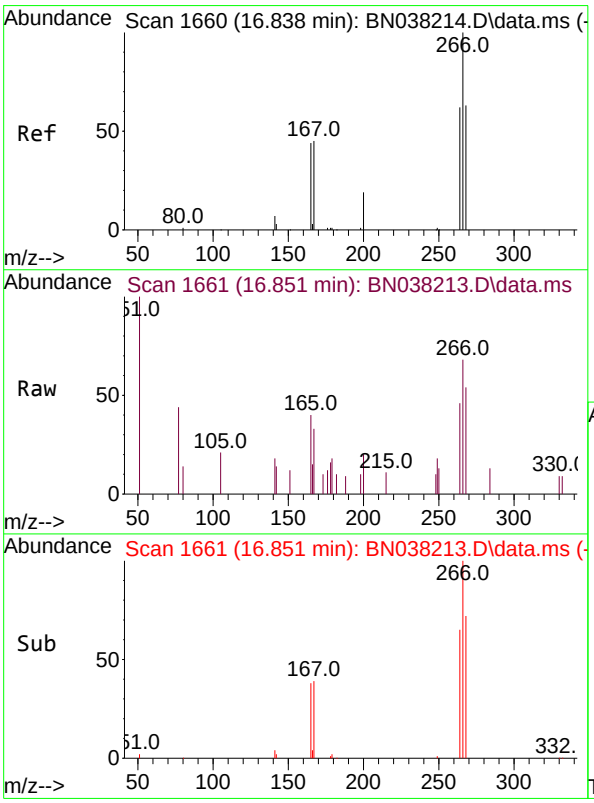
#23
Atrazine
Concen: 0.177 ng
RT: 16.652 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 1535

Ion	Ratio	Lower	Upper
200	100		
173	32.6	21.0	31.6#
215	46.9	37.8	56.8

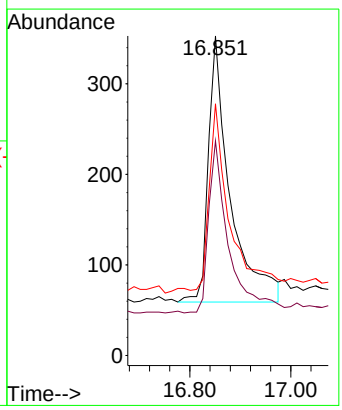


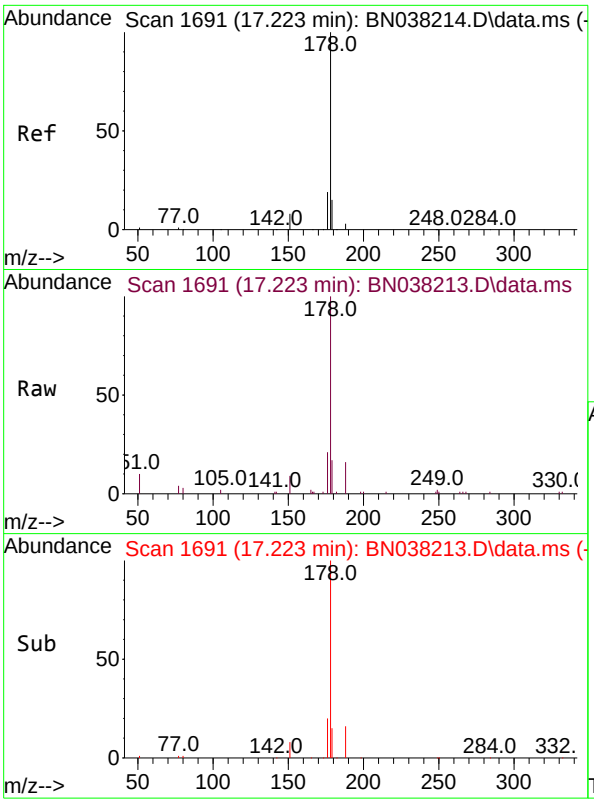


#24
Pentachlorophenol
Concen: 0.193 ng
RT: 16.851 min Scan# 1661
Delta R.T. 0.013 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:266 Resp: 882

Ion	Ratio	Lower	Upper
266	100		
264	60.1	48.9	73.3
268	70.3	50.2	75.2



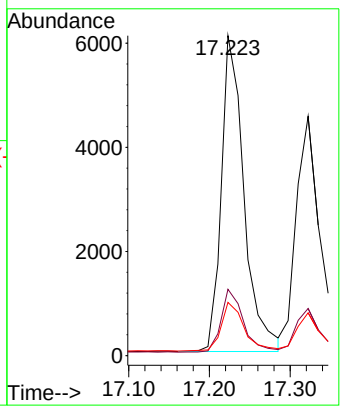


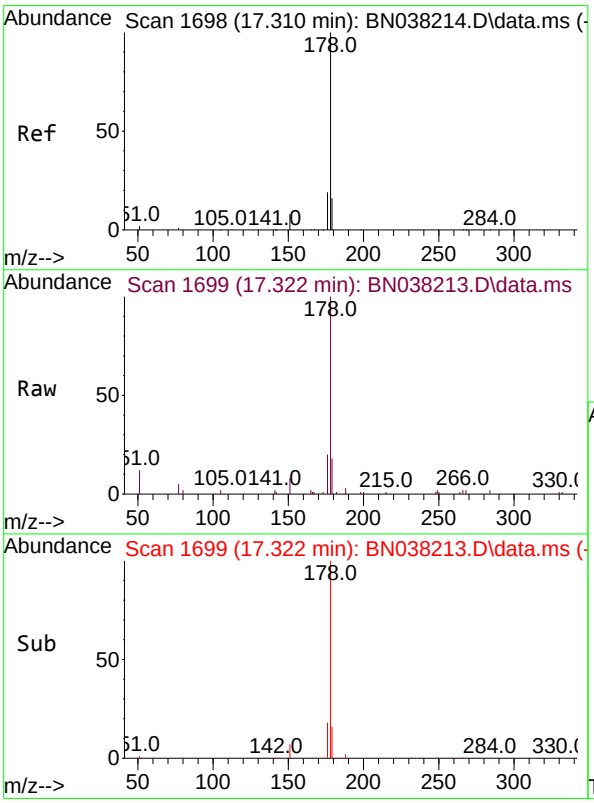
#25
Phenanthrene
Concen: 0.192 ng
RT: 17.223 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 11817

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.3	22.9
179	15.6	12.0	18.0

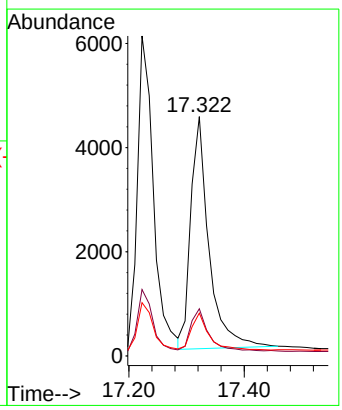


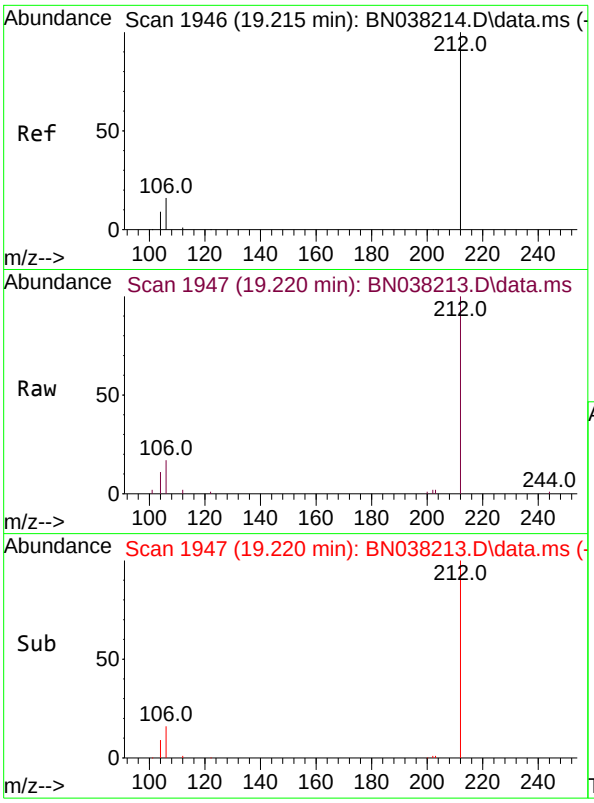


#26
Anthracene
Concen: 0.186 ng
RT: 17.322 min Scan# 1699
Delta R.T. 0.012 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:178 Resp: 9765

Ion	Ratio	Lower	Upper
178	100		
176	18.4	14.7	22.1
179	15.8	12.3	18.5



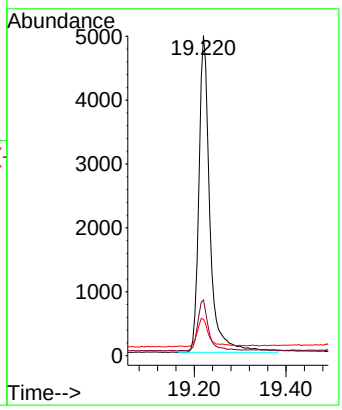


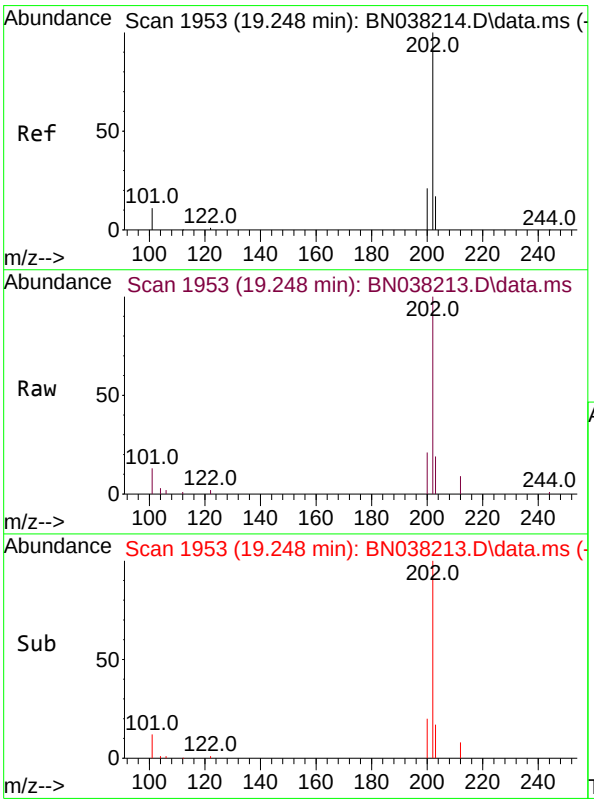
#27
Fluoranthene-d10
Concen: 0.195 ng
RT: 19.220 min Scan# 19
Delta R.T. 0.005 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 8268

Ion	Ratio	Lower	Upper
212	100		
106	15.6	12.7	19.1
104	9.1	7.3	10.9

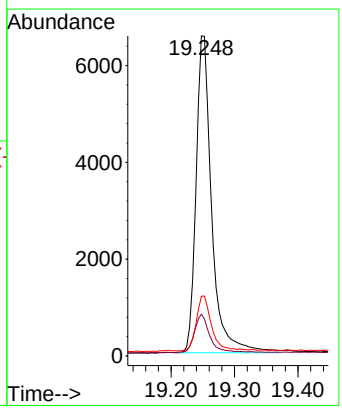


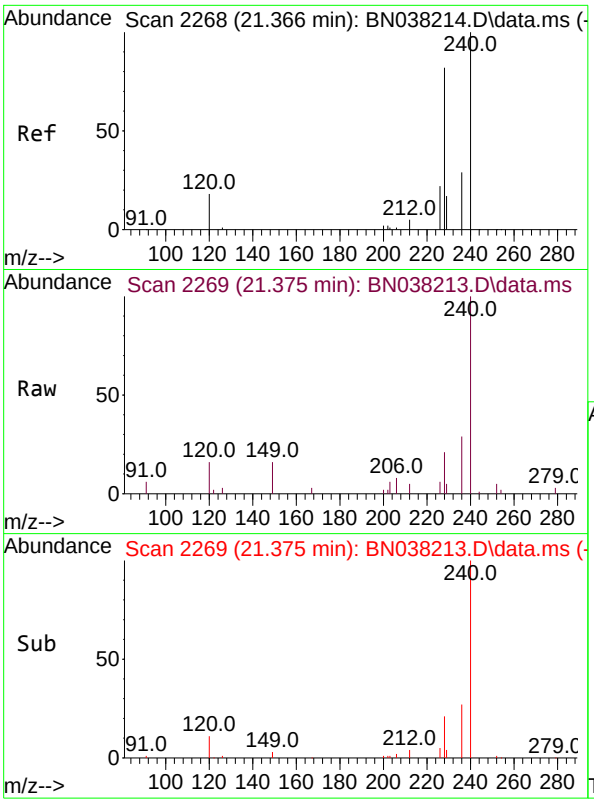


#28
Fluoranthene
Concen: 0.190 ng
RT: 19.248 min Scan# 1953
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:202 Resp: 11226

Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.8	14.6
203	16.9	13.6	20.4



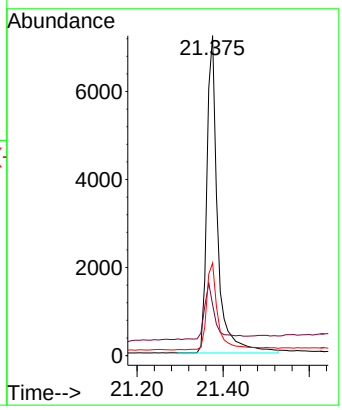


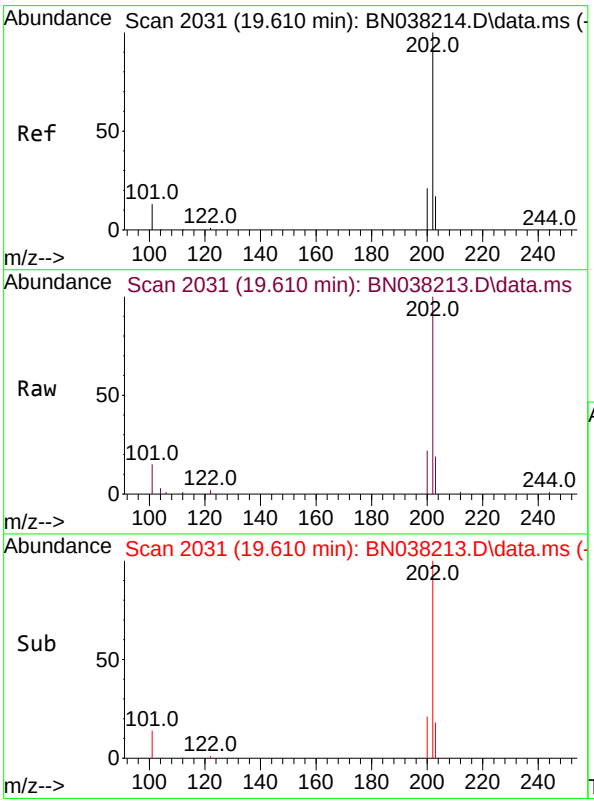
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.375 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 12487

Ion	Ratio	Lower	Upper
240	100		
120	15.9	18.1	27.1#
236	28.9	24.2	36.4

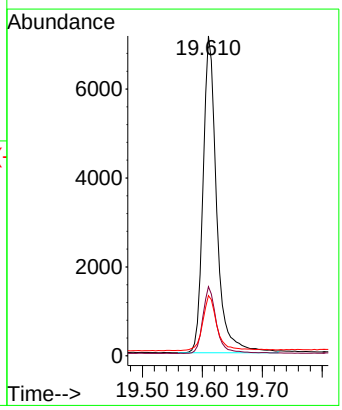


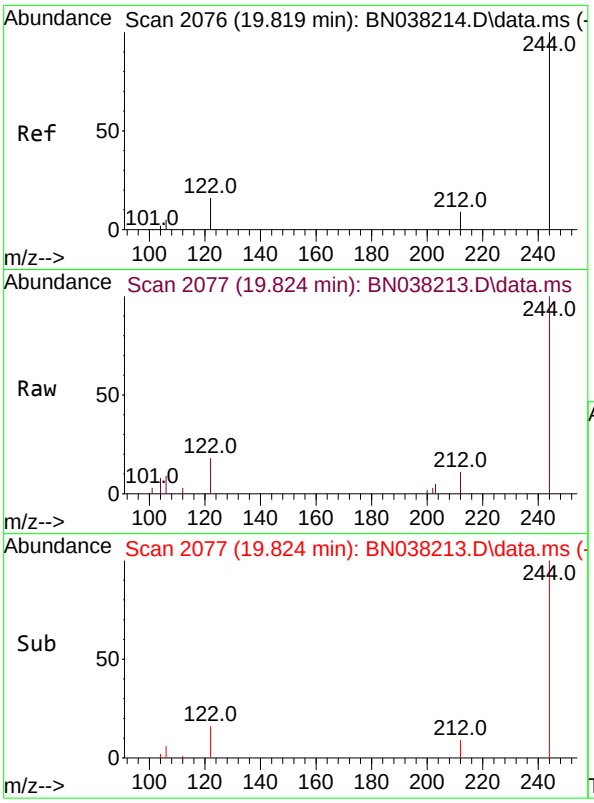


#30
Pyrene
Concen: 0.181 ng
RT: 19.610 min Scan# 2031
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:202 Resp: 11263

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.8	25.2
203	18.1	14.4	21.6



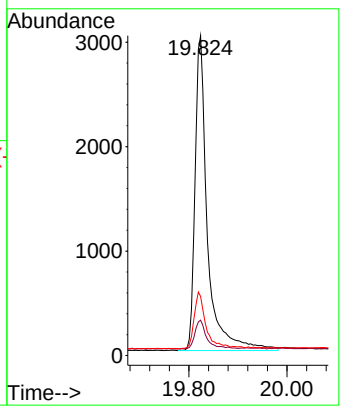


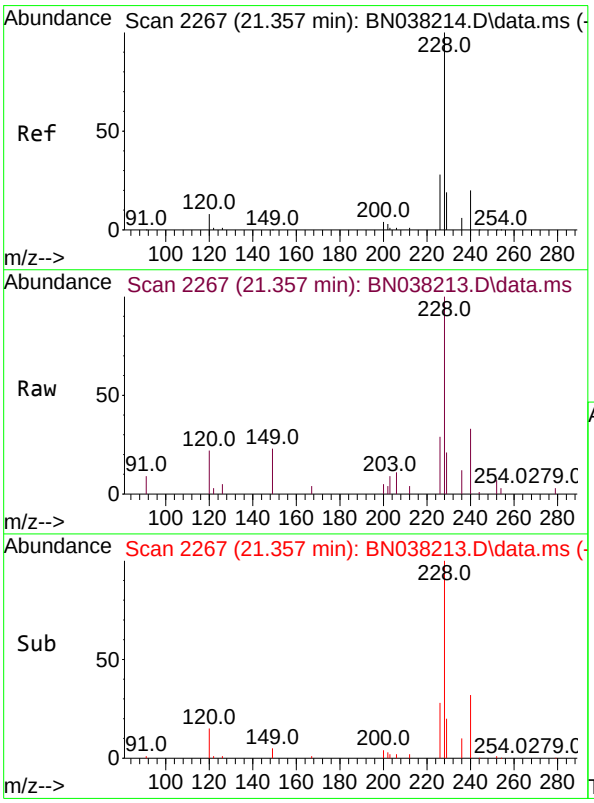
#31
Terphenyl-d14
Concen: 0.183 ng
RT: 19.824 min Scan# 20
Delta R.T. 0.005 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 5290

Ion	Ratio	Lower	Upper
244	100		
212	11.1	7.7	11.5
122	18.5	13.6	20.4

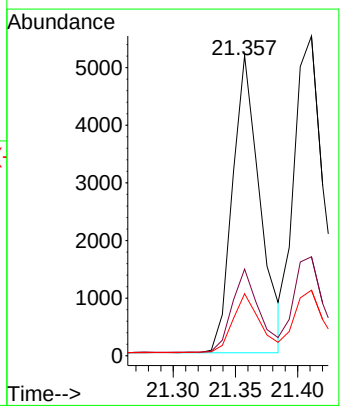


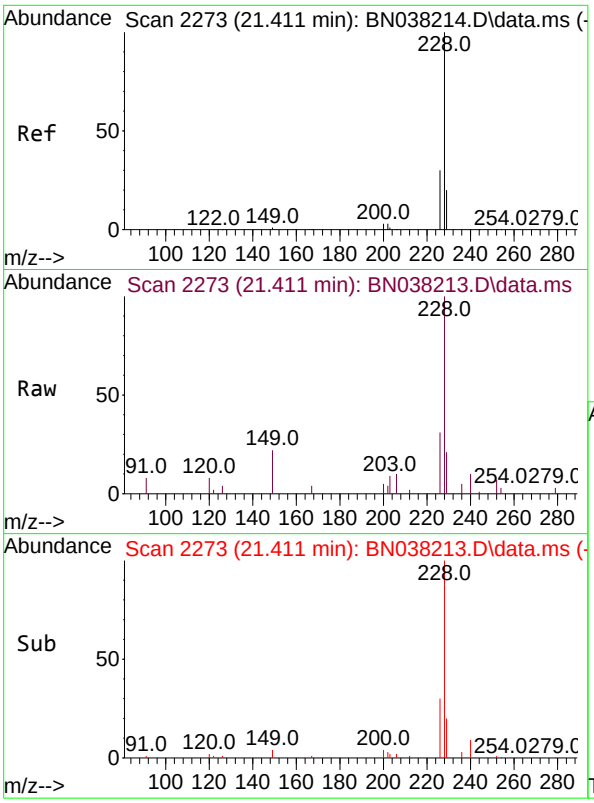


#32
Benzo(a)anthracene
Concen: 0.188 ng
RT: 21.357 min Scan# 2267
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:228 Resp: 7938

Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.6	33.8
229	20.7	15.8	23.8



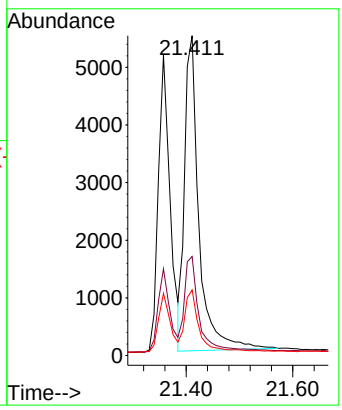


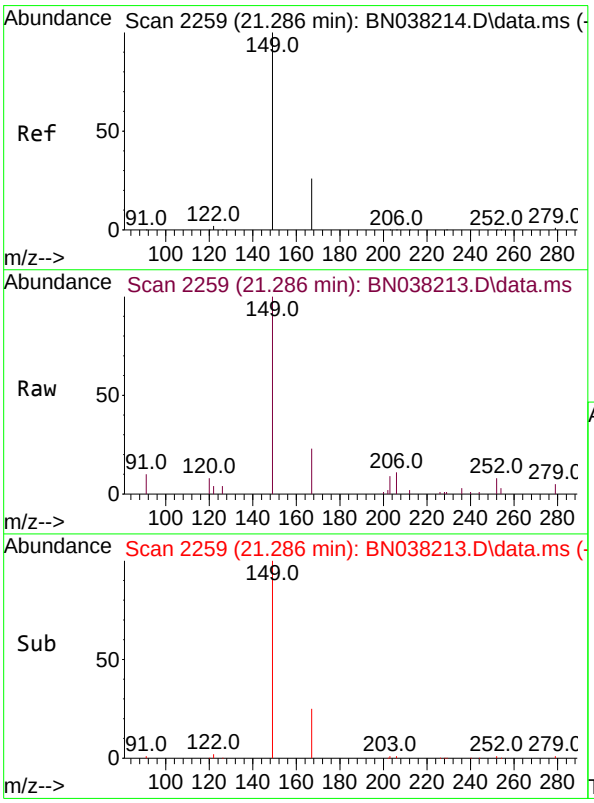
#33
Chrysene
Concen: 0.205 ng
RT: 21.411 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 10232

Ion	Ratio	Lower	Upper
228	100		
226	31.0	23.8	35.8
229	20.5	16.1	24.1

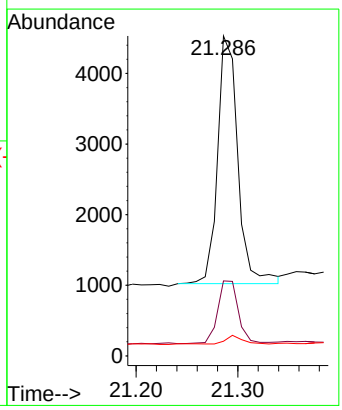


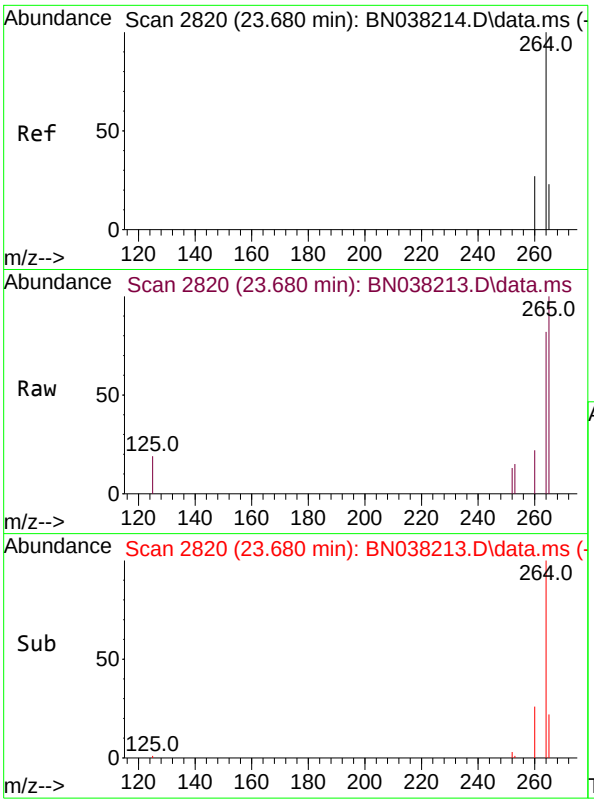


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.210 ng
RT: 21.286 min Scan# 2259
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:149 Resp: 4872

Ion	Ratio	Lower	Upper
149	100		
167	25.8	20.7	31.1
279	2.8	2.5	3.7



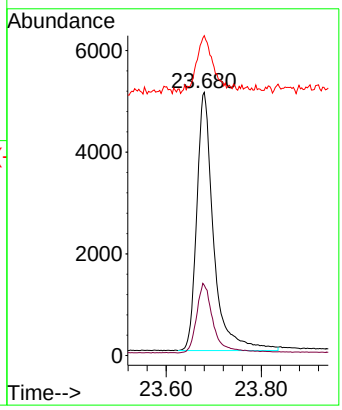


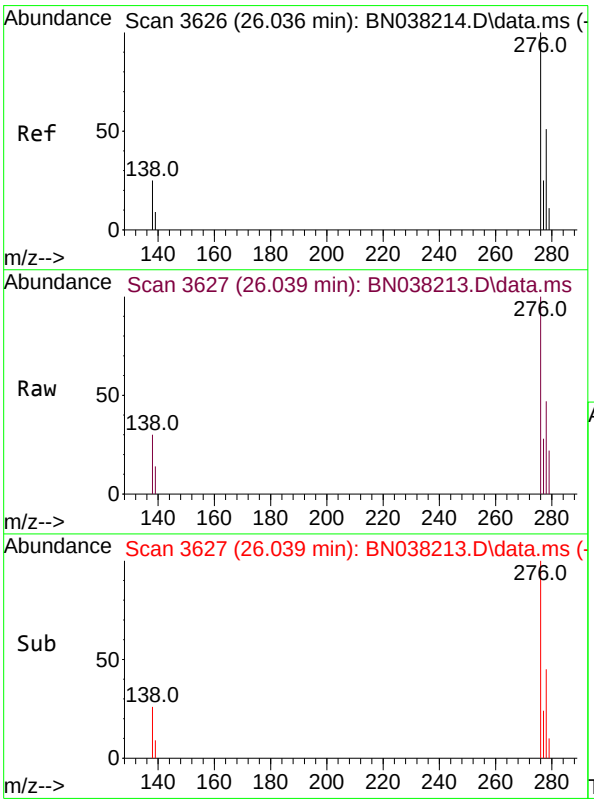
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.680 min Scan# 28
Delta R.T. -0.000 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 12455

Ion	Ratio	Lower	Upper
264	100		
260	26.7	21.7	32.5
265	121.6	98.0	147.0

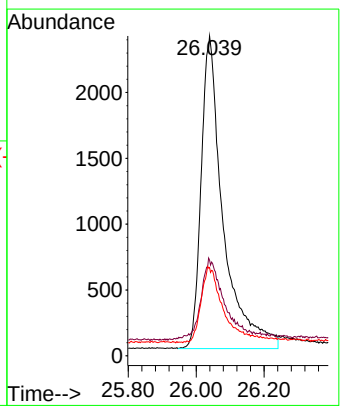


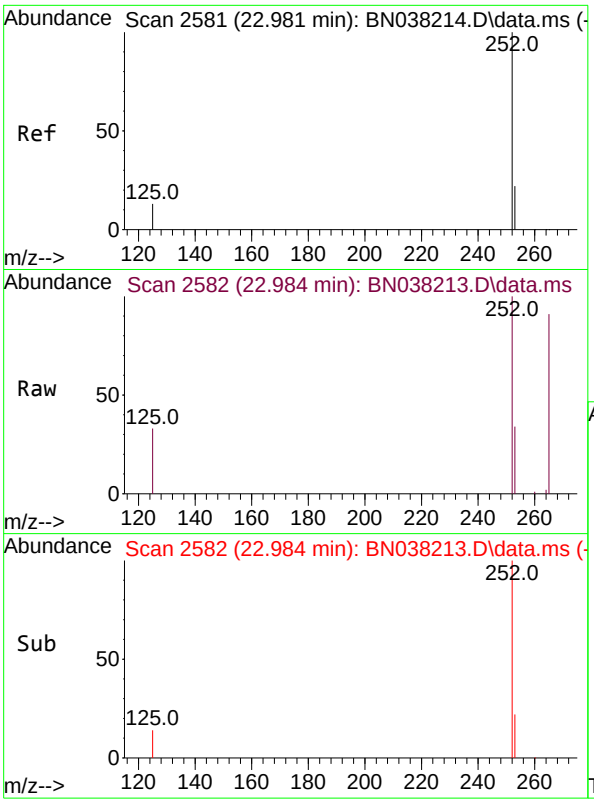


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.185 ng
RT: 26.039 min Scan# 3627
Delta R.T. 0.003 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:276 Resp: 10679

Ion	Ratio	Lower	Upper
276	100		
138	24.1	21.4	32.2
277	22.8	19.1	28.7



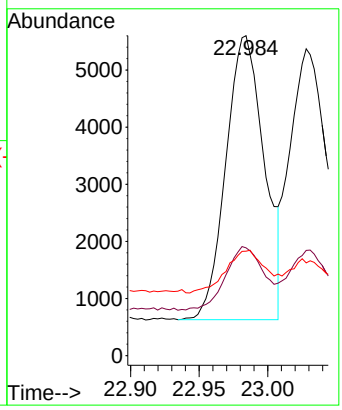


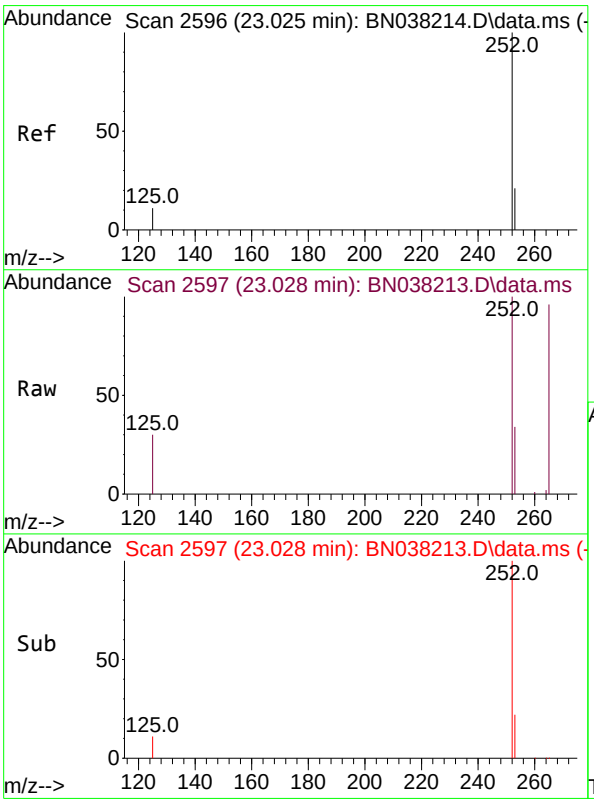
#37
Benzo(b)fluoranthene
Concen: 0.189 ng
RT: 22.984 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 9683

Ion	Ratio	Lower	Upper
252	100		
253	33.7	22.2	33.4#
125	32.6	18.0	27.0#

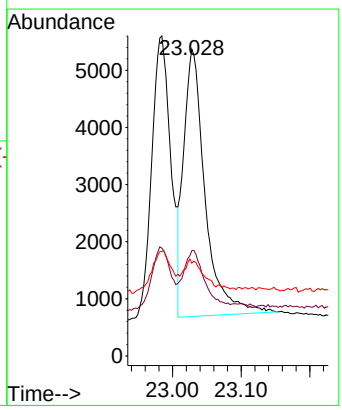


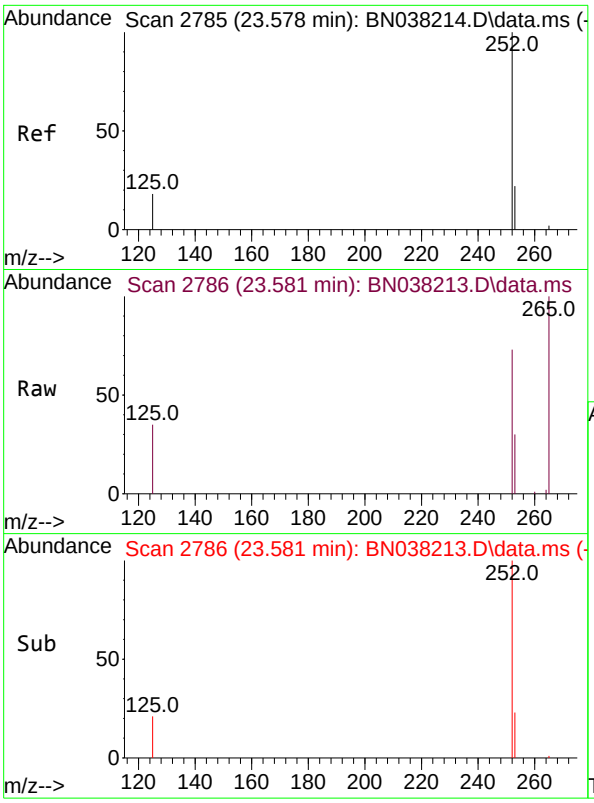


#38
Benzo(k)fluoranthene
Concen: 0.192 ng
RT: 23.028 min Scan# 2597
Delta R.T. 0.003 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:252 Resp: 10204

Ion	Ratio	Lower	Upper
252	100		
253	34.3	22.4	33.6#
125	30.2	17.5	26.3#



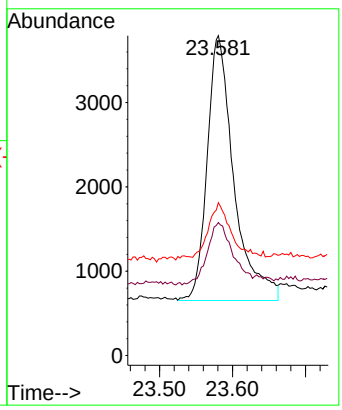


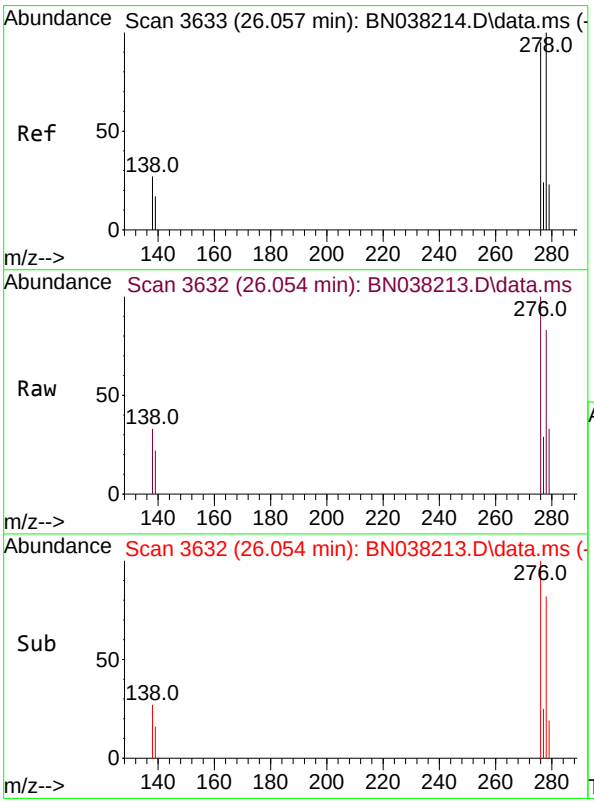
#39
Benzo(a)pyrene
Concen: 0.187 ng
RT: 23.581 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 7993

Ion	Ratio	Lower	Upper
252	100		
253	41.6	25.3	37.9#
125	47.8	25.2	37.8#

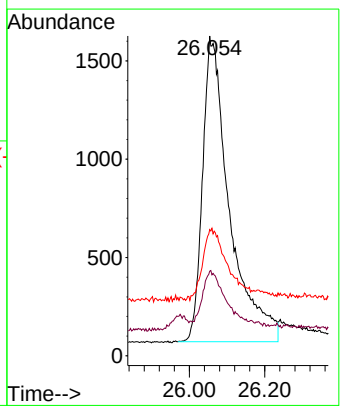


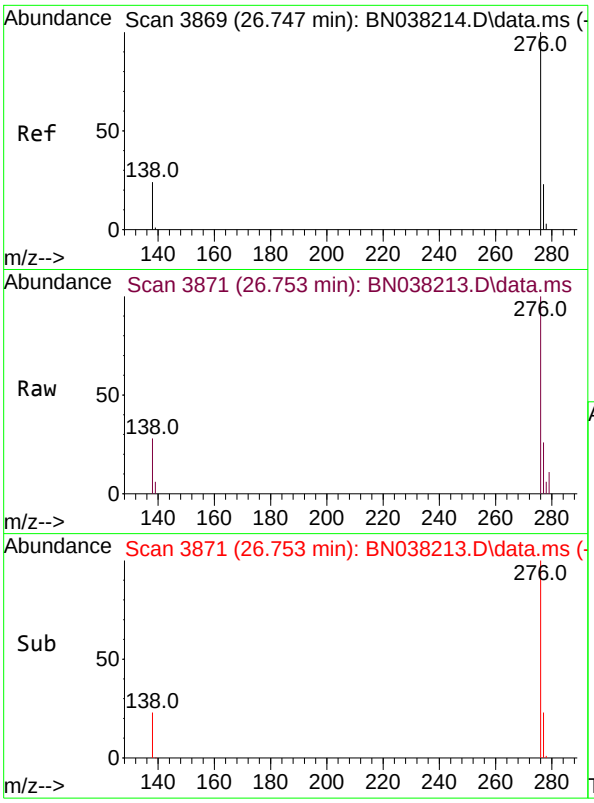


#40
Dibenzo(a,h)anthracene
Concen: 0.176 ng
RT: 26.054 min Scan# 3632
Delta R.T. -0.003 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Tgt Ion:278 Resp: 7682

Ion	Ratio	Lower	Upper
278	100		
139	26.5	17.6	26.4#
279	39.5	24.2	36.4#



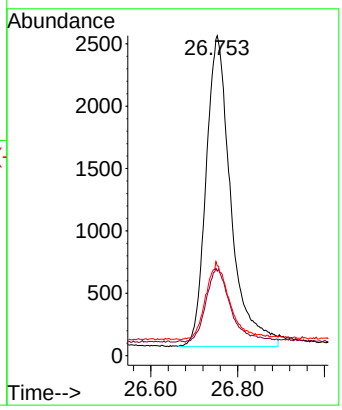


#41
Benzo(g,h,i)perylene
Concen: 0.190 ng
RT: 26.753 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN038213.D
Acq: 26 Nov 2025 21:12

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 9876

Ion	Ratio	Lower	Upper
276	100		
277	26.4	20.2	30.2
138	28.1	20.8	31.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038214.D
Acq On : 26 Nov 2025 21:48
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Nov 28 20:54:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.768	152	7469	0.400	ng		0.00
7) Naphthalene-d8	10.573	136	23385	0.400	ng		0.00
13) Acenaphthene-d10	14.430	164	13235	0.400	ng		0.00
19) Phenanthrene-d10	17.186	188	21844	0.400	ng		0.00
29) Chrysene-d12	21.366	240	12804	0.400	ng		0.00
35) Perylene-d12	23.680	264	11960	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.341	112	7407	0.424	ng		0.00
5) Phenol-d6	6.937	99	9075	0.416	ng		0.00
8) Nitrobenzene-d5	8.918	82	7258	0.388	ng		0.00
11) 2-Methylnaphthalene-d10	12.167	152	13752	0.414	ng		0.00
14) 2,4,6-Tribromophenol	15.932	330	1634	0.392	ng		0.00
15) 2-Fluorobiphenyl	13.051	172	21045	0.412	ng		0.00
27) Fluoranthene-d10	19.215	212	19448	0.410	ng		0.00
31) Terphenyl-d14	19.819	244	12317	0.417	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.254	88	3345	0.425	ng		99
3) n-Nitrosodimethylamine	3.564	42	4054	0.418	ng		99
6) bis(2-Chloroethyl)ether	7.190	93	8875	0.425	ng		100
9) Naphthalene	10.616	128	26973	0.415	ng		100
10) Hexachlorobutadiene	10.914	225	4678	0.424	ng	#	100
12) 2-Methylnaphthalene	12.243	142	17767	0.416	ng		100
16) Acenaphthylene	14.142	152	23834	0.403	ng		100
17) Acenaphthene	14.494	154	17100	0.414	ng		100
18) Fluorene	15.478	166	21837	0.409	ng		100
20) 4,6-Dinitro-2-methylph...	15.572	198	568	0.399	ng		100
21) 4-Bromophenyl-phenylether	16.379	248	6223	0.411	ng		100
22) Hexachlorobenzene	16.491	284	7821	0.420	ng		100
23) Atrazine	16.652	200	3821	0.395	ng		100
24) Pentachlorophenol	16.838	266	1841	0.361	ng		100
25) Phenanthrene	17.223	178	28648	0.418	ng		100
26) Anthracene	17.310	178	23328	0.399	ng		100
28) Fluoranthene	19.248	202	26807	0.406	ng		100
30) Pyrene	19.610	202	26725	0.418	ng		100
32) Benzo(a)anthracene	21.357	228	17510	0.404	ng		100
33) Chrysene	21.411	228	21267	0.416	ng		100
34) Bis(2-ethylhexyl)phtha...	21.286	149	10262	0.432	ng		100
36) Indeno(1,2,3-cd)pyrene	26.036	276	22427	0.405	ng		100
37) Benzo(b)fluoranthene	22.981	252	20366	0.415	ng		100
38) Benzo(k)fluoranthene	23.025	252	21024	0.412	ng		100
39) Benzo(a)pyrene	23.578	252	16572	0.403	ng		100
40) Dibenzo(a,h)anthracene	26.057	278	16493	0.394	ng		100
41) Benzo(g,h,i)perylene	26.747	276	20578	0.413	ng		100

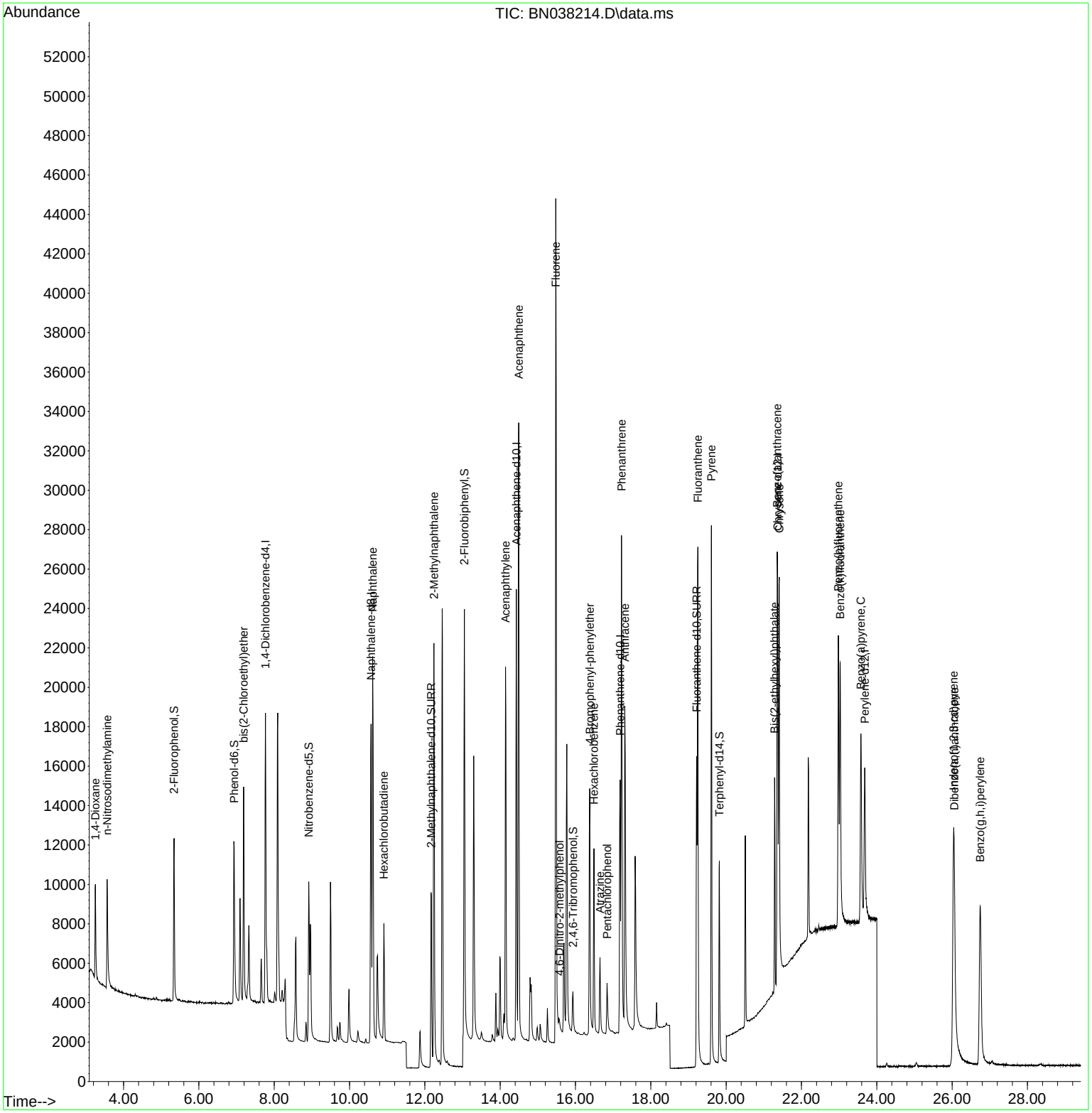
(#) = qualifier out of range (m) = manual integration (+) = signals summed

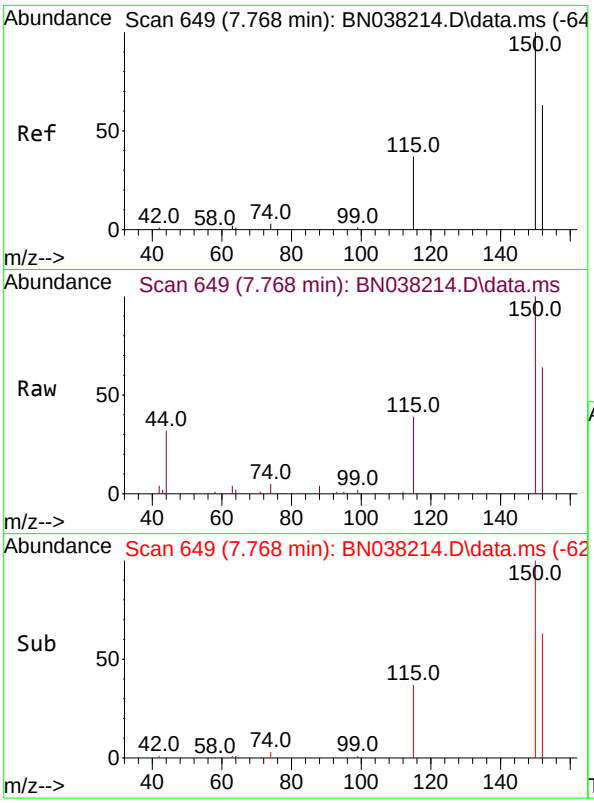
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038214.D
Acq On : 26 Nov 2025 21:48
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Nov 28 20:54:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 2025
Response via : Initial Calibration



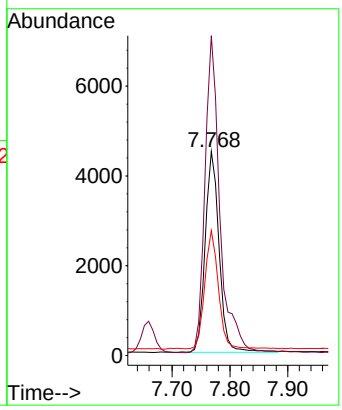


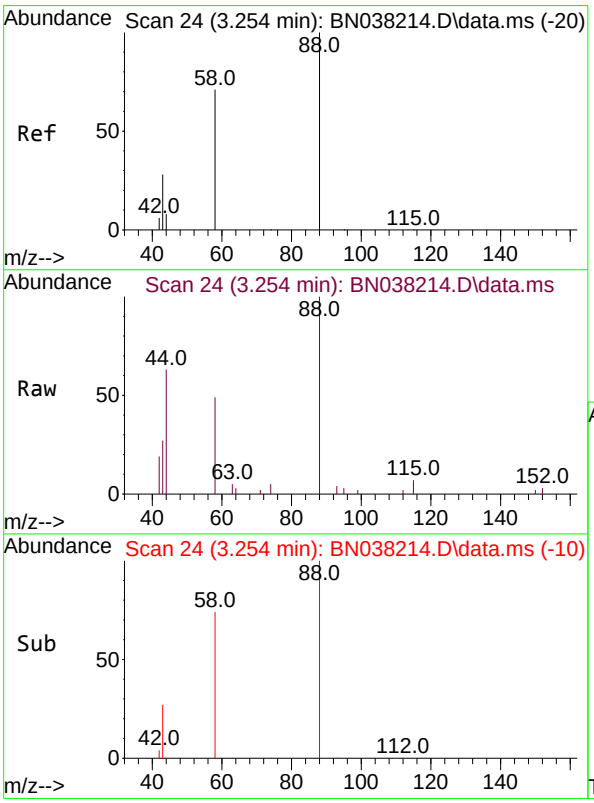
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.768 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 7469

Ion	Ratio	Lower	Upper
152	100		
150	156.6	125.3	187.9
115	61.2	49.0	73.4

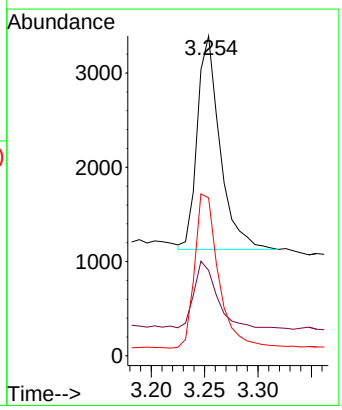


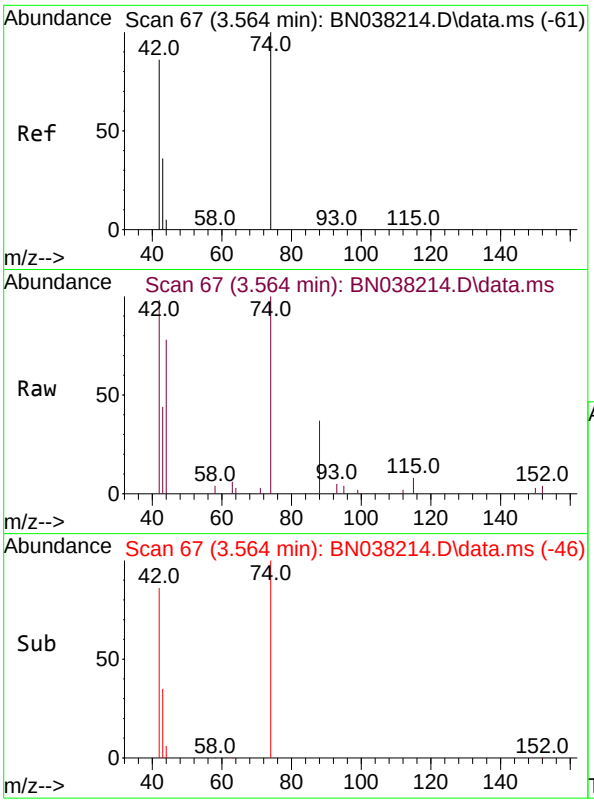


#2
1,4-Dioxane
Concen: 0.425 ng
RT: 3.254 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion: 88 Resp: 3345

Ion	Ratio	Lower	Upper
88	100		
43	32.0	24.8	37.2
58	76.7	61.1	91.7



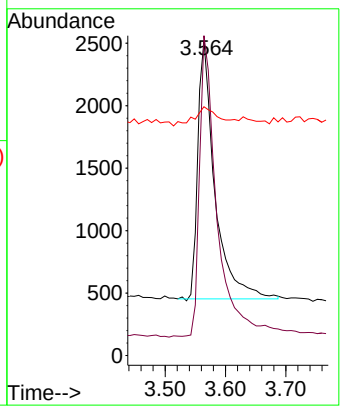


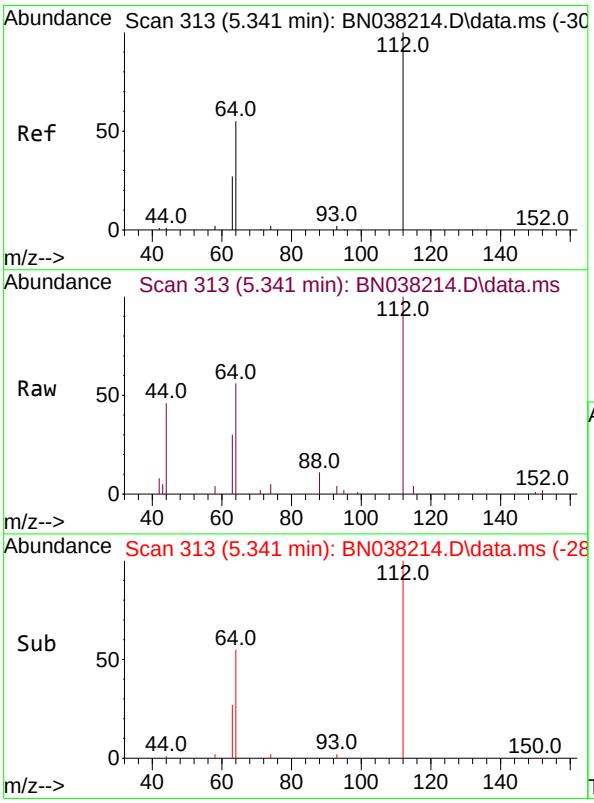
#3
n-Nitrosodimethylamine
Concen: 0.418 ng
RT: 3.564 min Scan# 6
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 4054

Ion	Ratio	Lower	Upper
42	100		
74	121.0	96.2	144.2
44	10.0	8.0	12.0

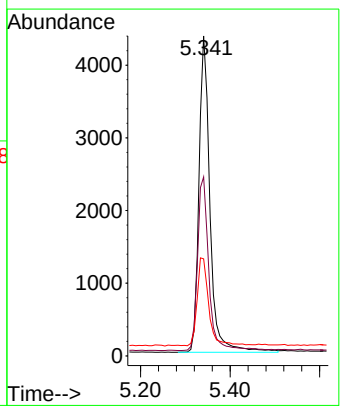


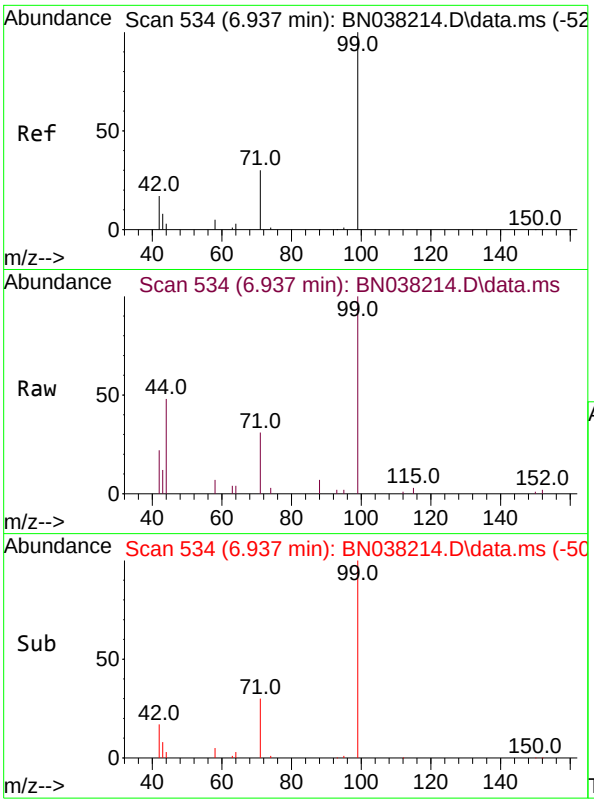


#4
2-Fluorophenol
Concen: 0.424 ng
RT: 5.341 min Scan# 313
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion:112 Resp: 7407

Ion	Ratio	Lower	Upper
112	100		
64	56.2	45.0	67.4
63	29.0	23.2	34.8



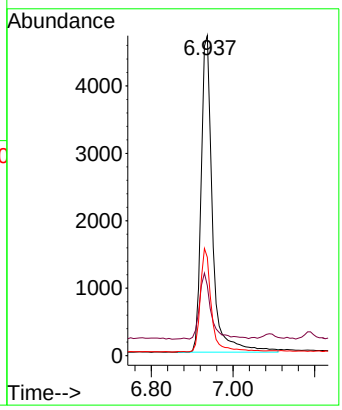


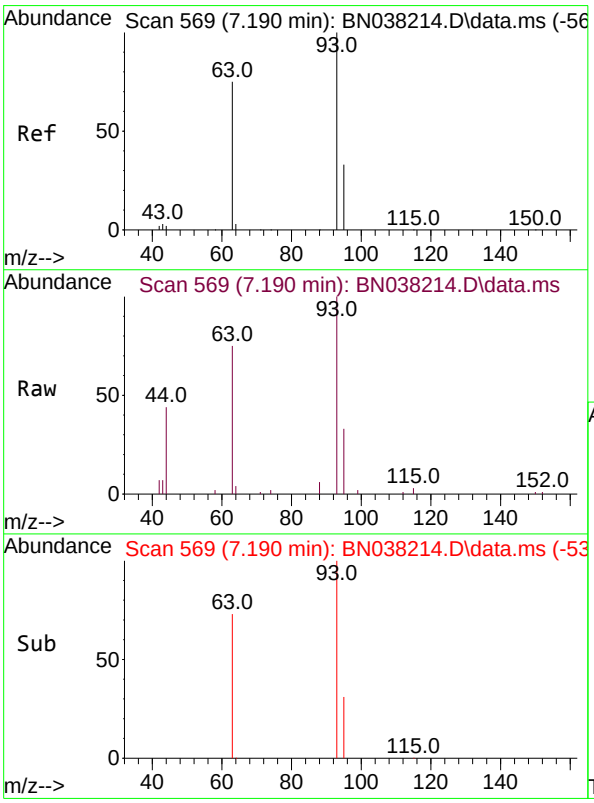
#5
Phenol-d6
Concen: 0.416 ng
RT: 6.937 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 9075

Ion	Ratio	Lower	Upper
99	100		
42	21.2	17.0	25.6
71	31.7	25.4	38.2

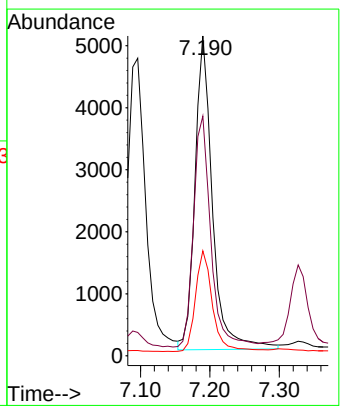


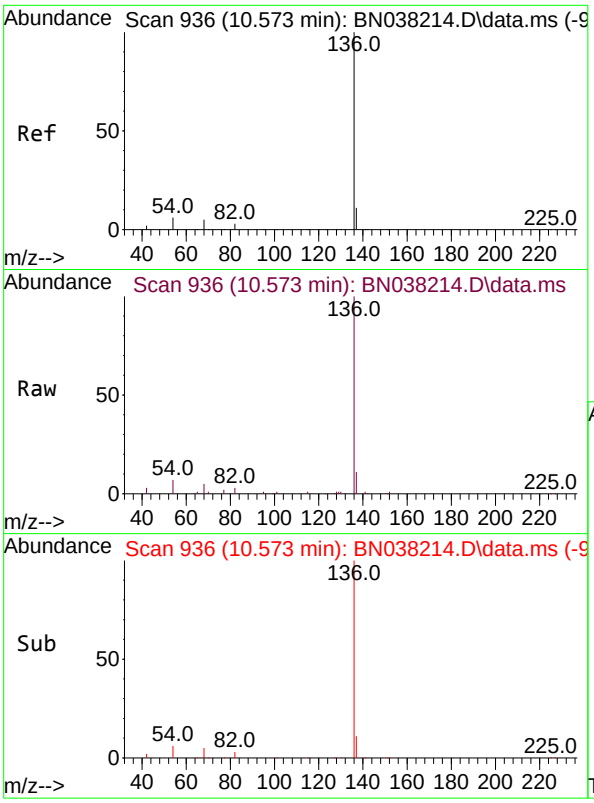


#6
bis(2-Chloroethyl)ether
Concen: 0.425 ng
RT: 7.190 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion: 93 Resp: 8875

Ion	Ratio	Lower	Upper
93	100		
63	72.6	58.1	87.1
95	31.4	25.1	37.7



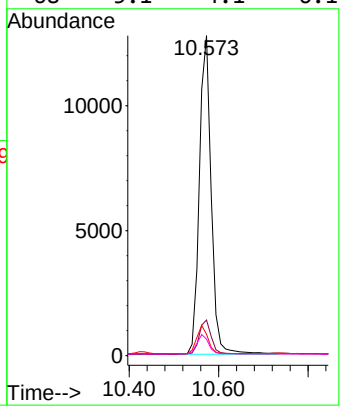


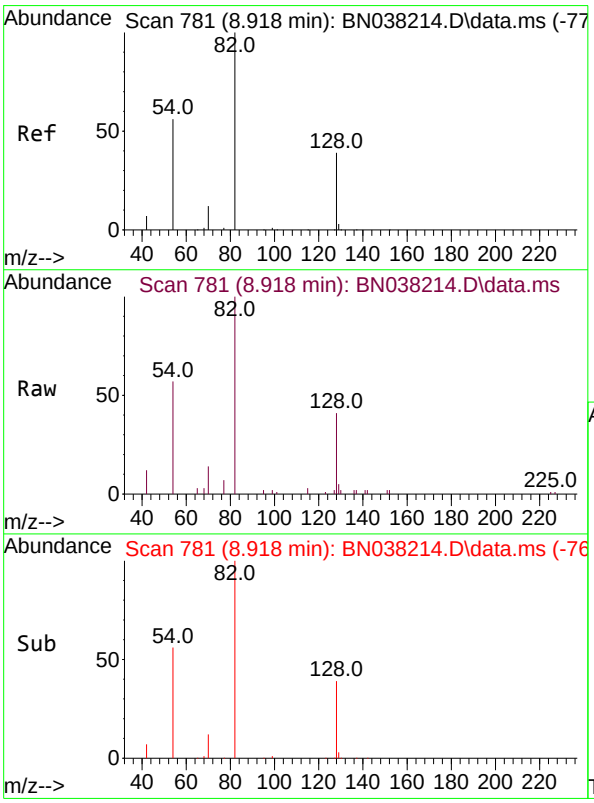
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.573 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 23385

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	6.7	5.4	8.0
68	5.1	4.1	6.1

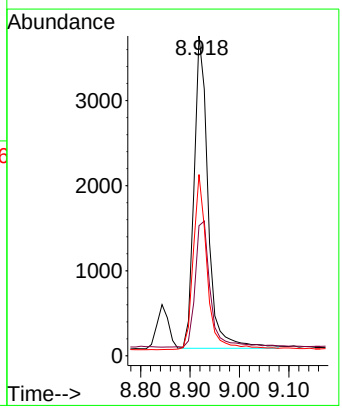


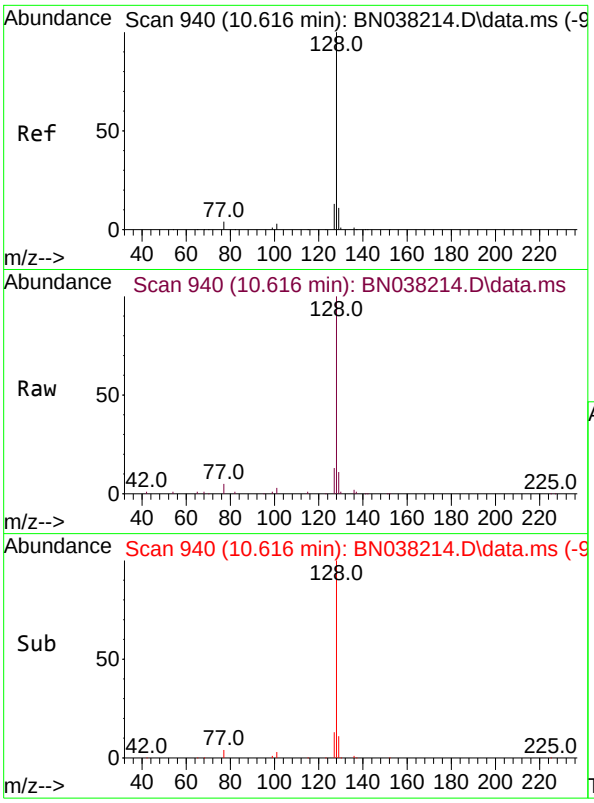


#8
Nitrobenzene-d5
Concen: 0.388 ng
RT: 8.918 min Scan# 781
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion: 82 Resp: 7258

Ion	Ratio	Lower	Upper
82	100		
128	40.7	32.6	48.8
54	56.7	45.4	68.0



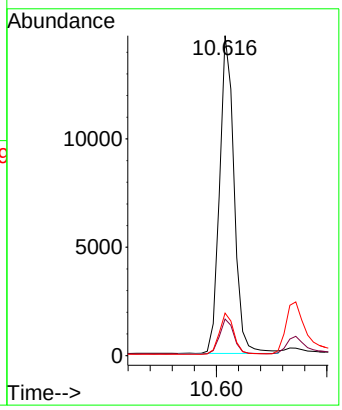


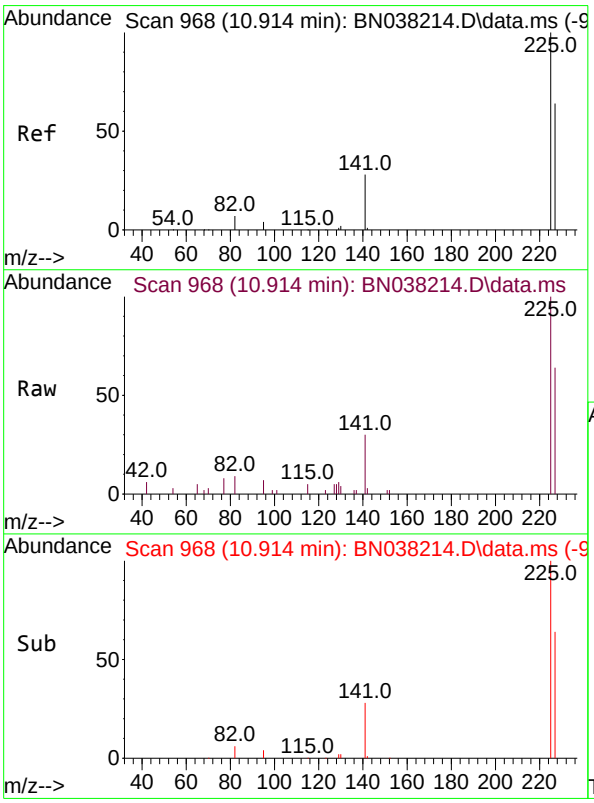
#9
Naphthalene
Concen: 0.415 ng
RT: 10.616 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 26973

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.1	13.7
127	13.3	10.6	16.0

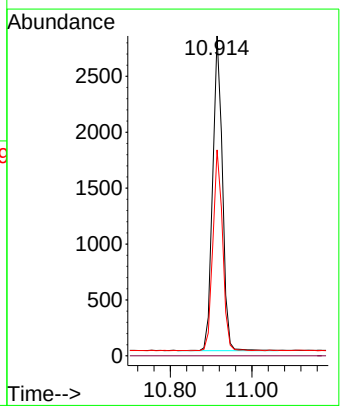


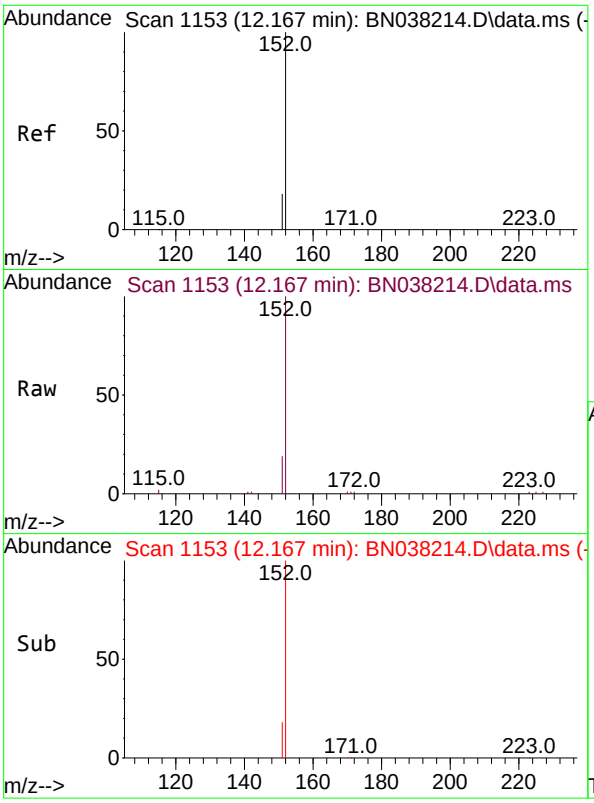


#10
Hexachlorobutadiene
Concen: 0.424 ng
RT: 10.914 min Scan# 968
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion:225 Resp: 4678

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.1	50.5	75.7



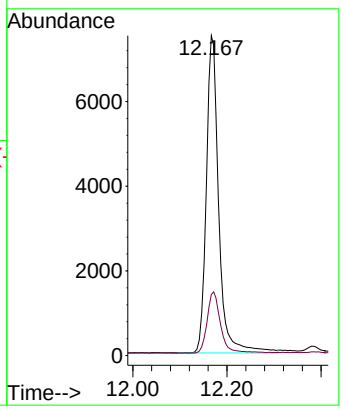


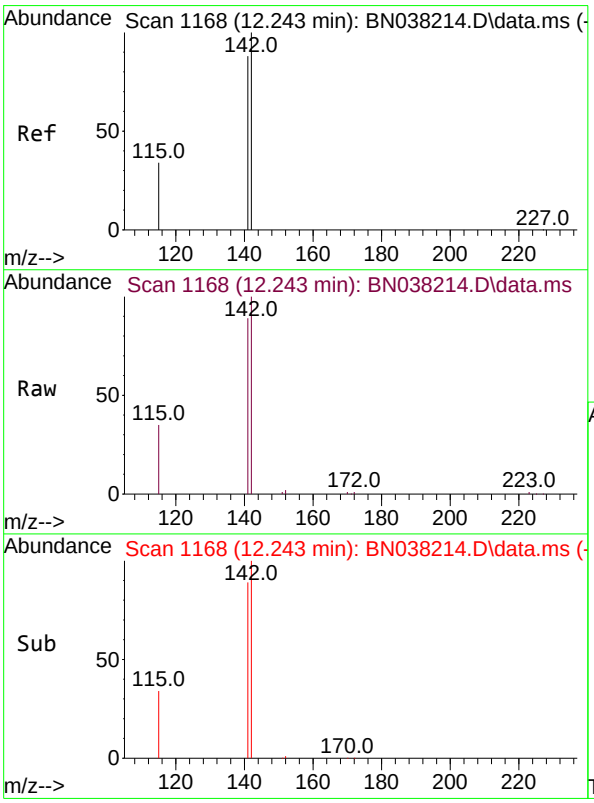
#11
2-Methylnaphthalene-d10
Concen: 0.414 ng
RT: 12.167 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 13752

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.7	25.1

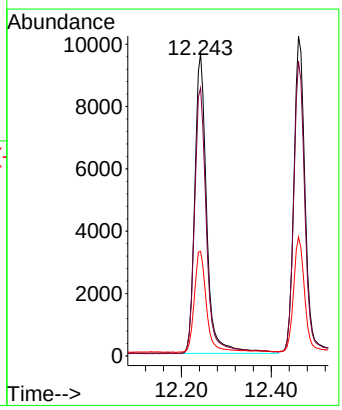


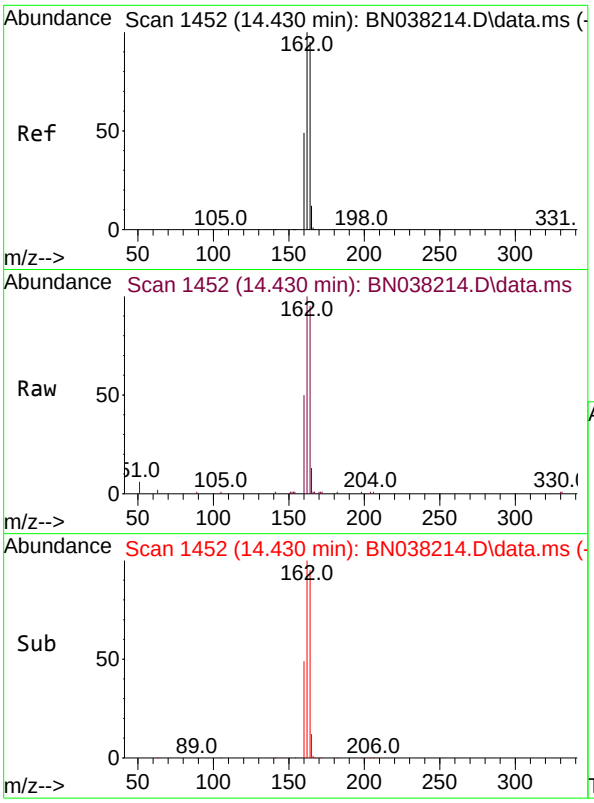


#12
2-Methylnaphthalene
Concen: 0.416 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion:142 Resp: 17767

Ion	Ratio	Lower	Upper
142	100		
141	88.6	70.9	106.3
115	34.6	27.7	41.5



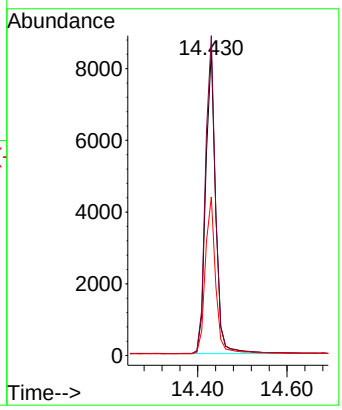


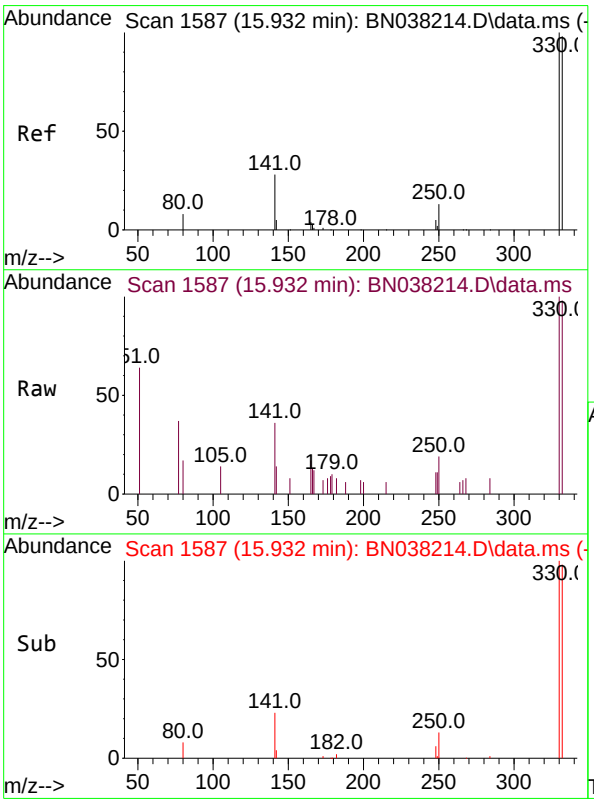
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 13235

Ion	Ratio	Lower	Upper
164	100		
162	104.8	83.8	125.8
160	52.0	41.6	62.4

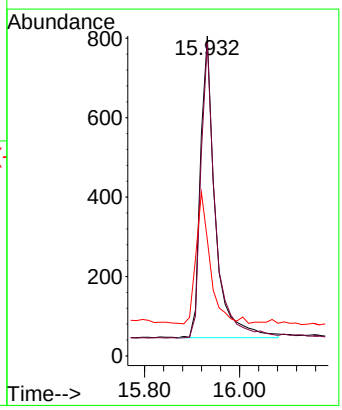


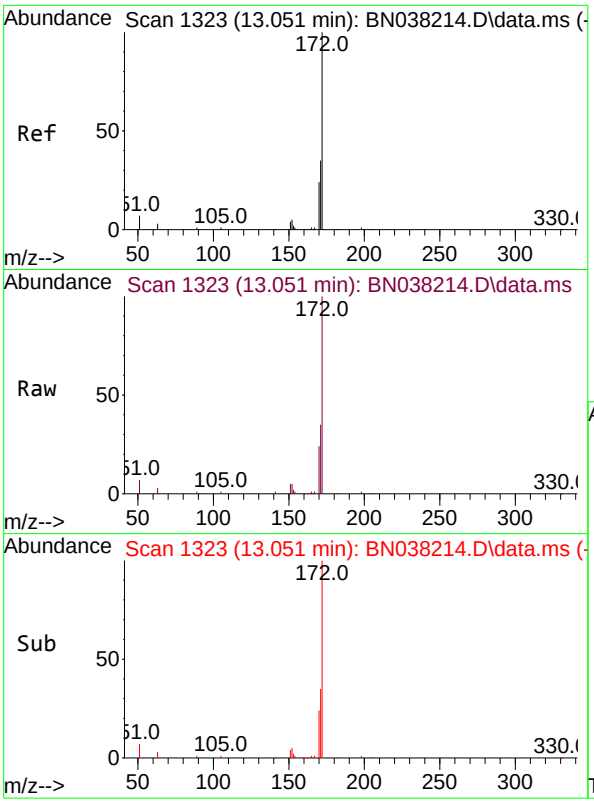


#14
2,4,6-Tribromophenol
Concen: 0.392 ng
RT: 15.932 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion:330 Resp: 1634

Ion	Ratio	Lower	Upper
330	100		
332	97.2	77.8	116.6
141	41.2	33.0	49.4



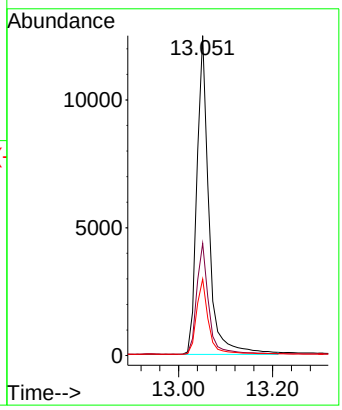


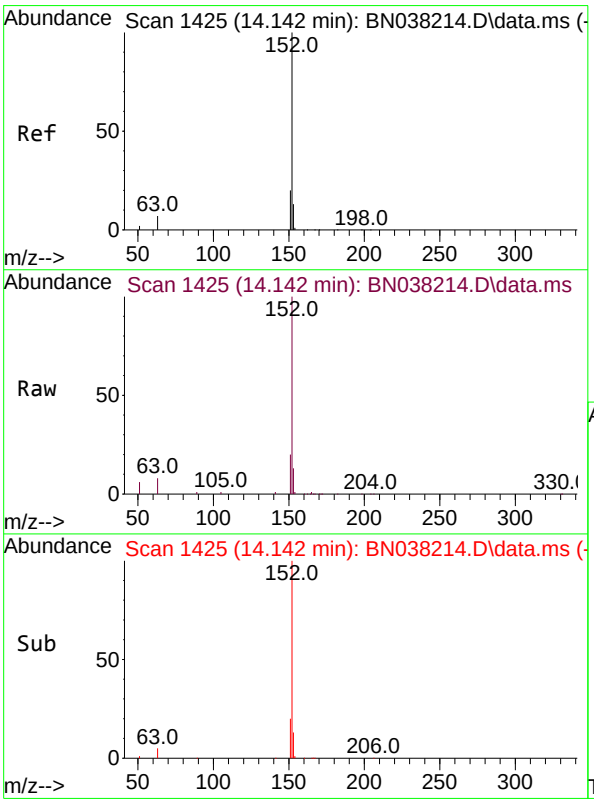
#15
2-Fluorobiphenyl
Concen: 0.412 ng
RT: 13.051 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 21045

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.1	42.1
170	23.9	19.1	28.7

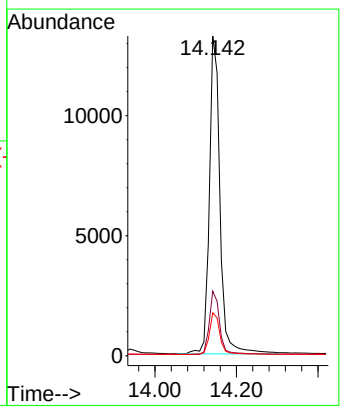


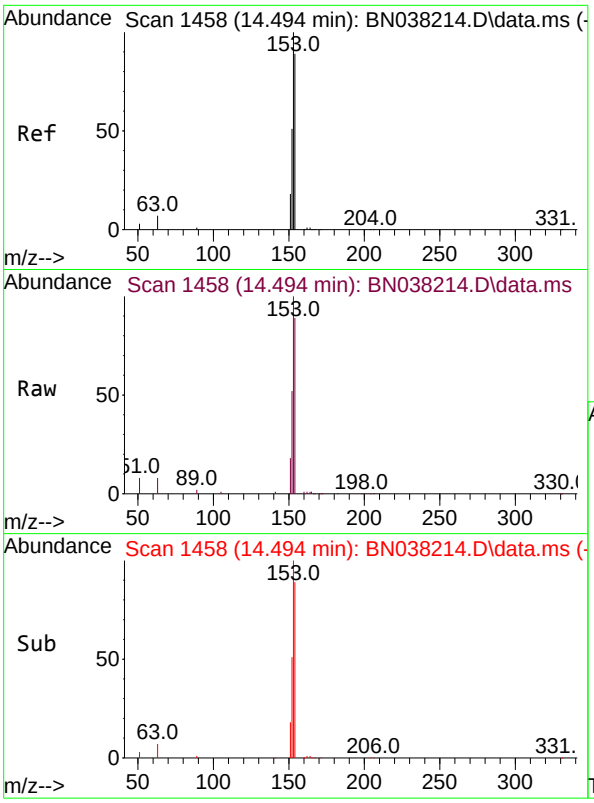


#16
Acenaphthylene
Concen: 0.403 ng
RT: 14.142 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion:152 Resp: 23834

Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.6	23.4
153	13.2	10.6	15.8



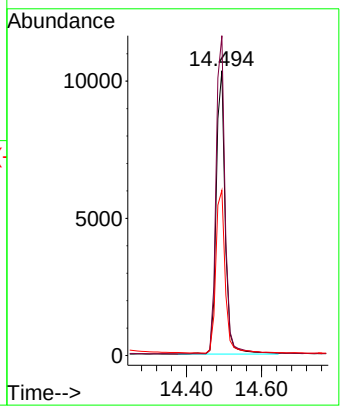


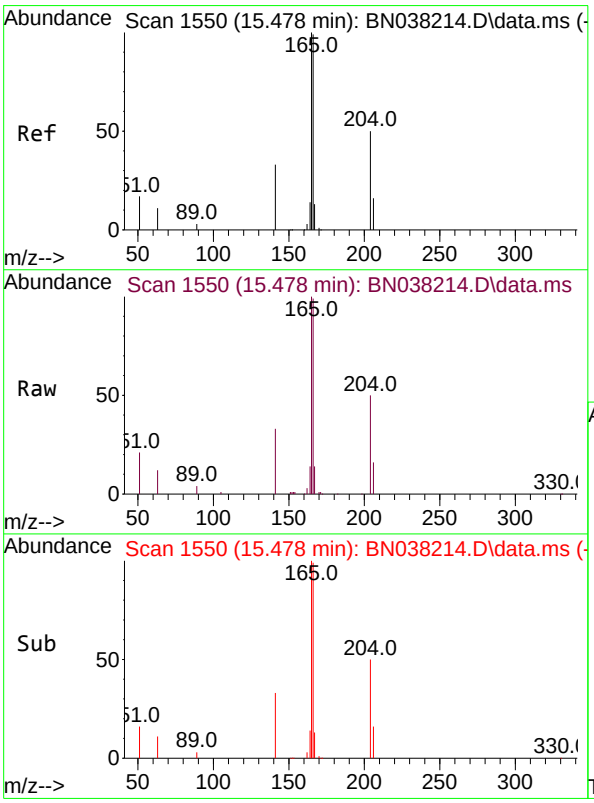
#17
Acenaphthene
Concen: 0.414 ng
RT: 14.494 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:154 Resp: 17100

Ion	Ratio	Lower	Upper
154	100		
153	113.9	91.1	136.7
152	60.2	48.2	72.2

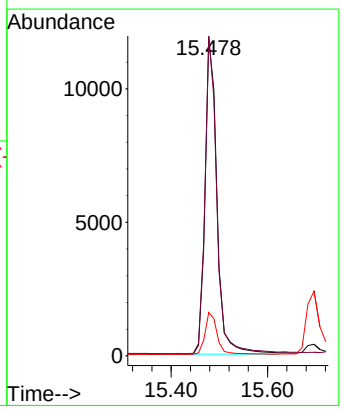


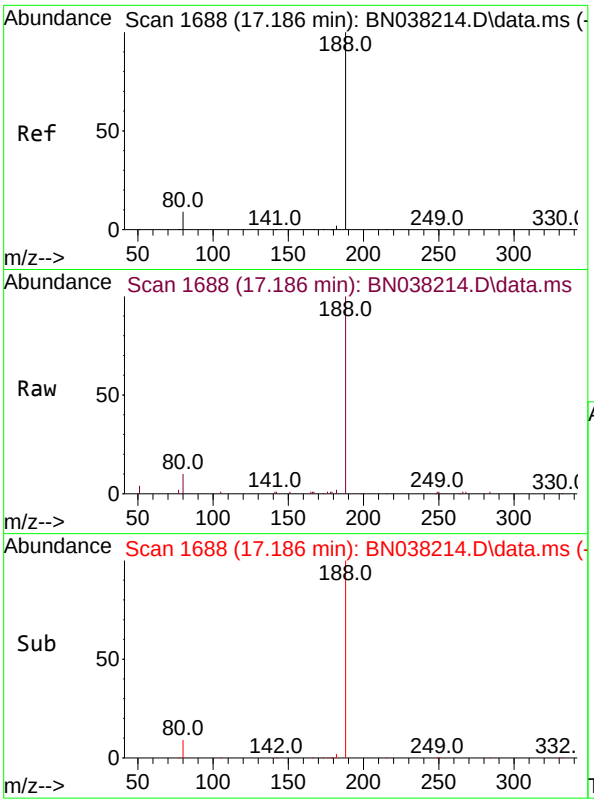


#18
Fluorene
Concen: 0.409 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion:166 Resp: 21837

Ion	Ratio	Lower	Upper
166	100		
165	98.4	78.7	118.1
167	13.6	10.9	16.3



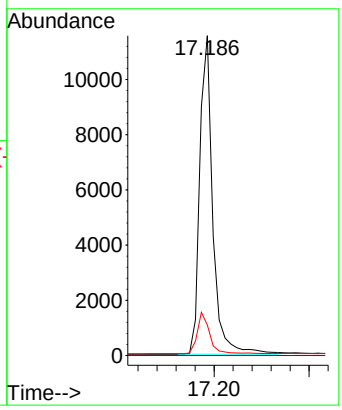


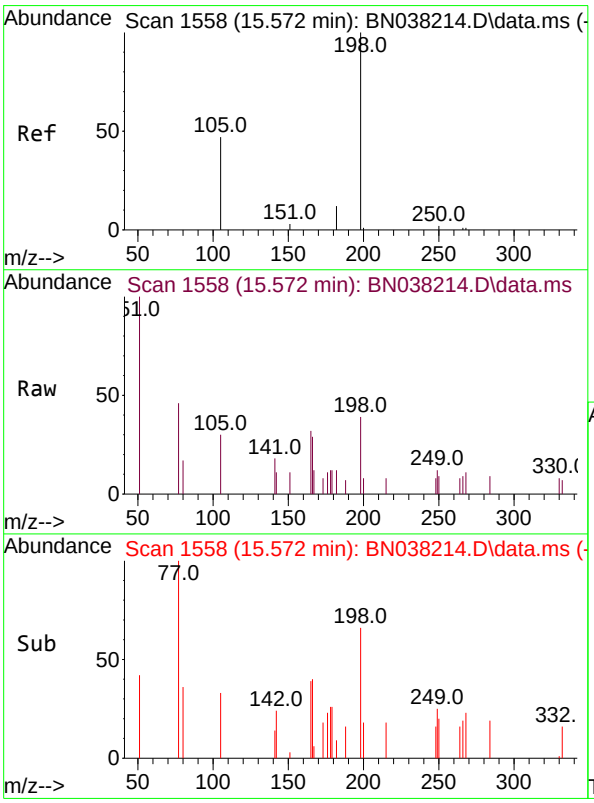
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 21844

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.6	7.7	11.5

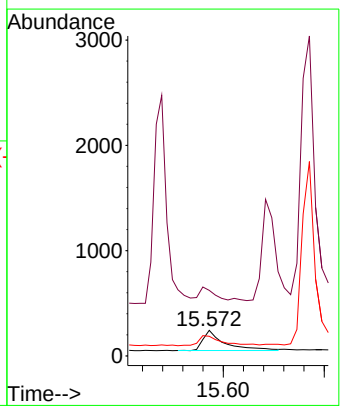


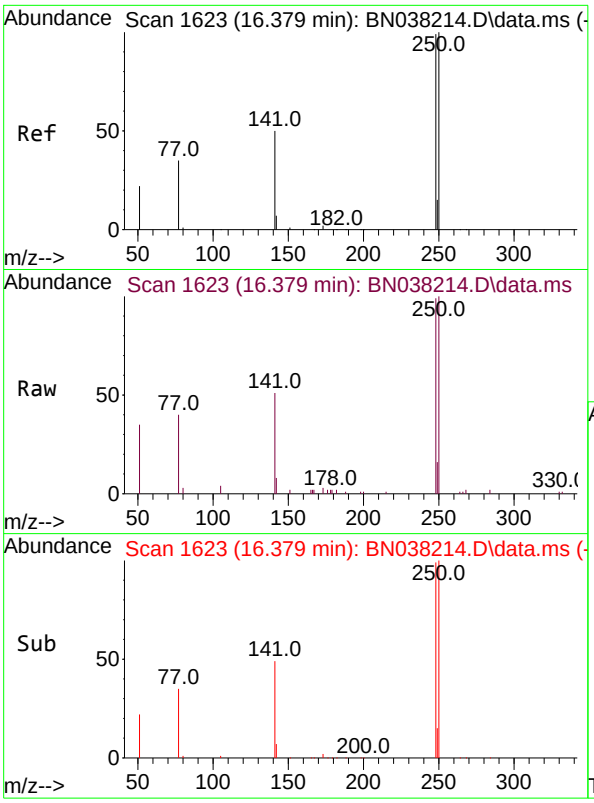


#20
4,6-Dinitro-2-methylphenol
Concen: 0.399 ng
RT: 15.572 min Scan# 1558
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion:198 Resp: 568

Ion	Ratio	Lower	Upper
198	100		
51	256.4	205.1	307.7
105	77.0	61.6	92.4



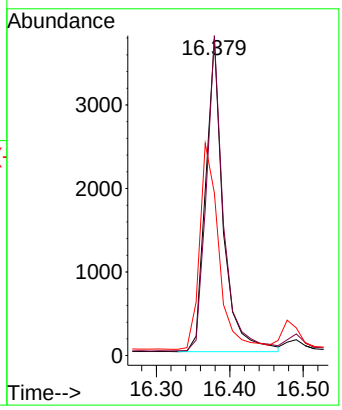


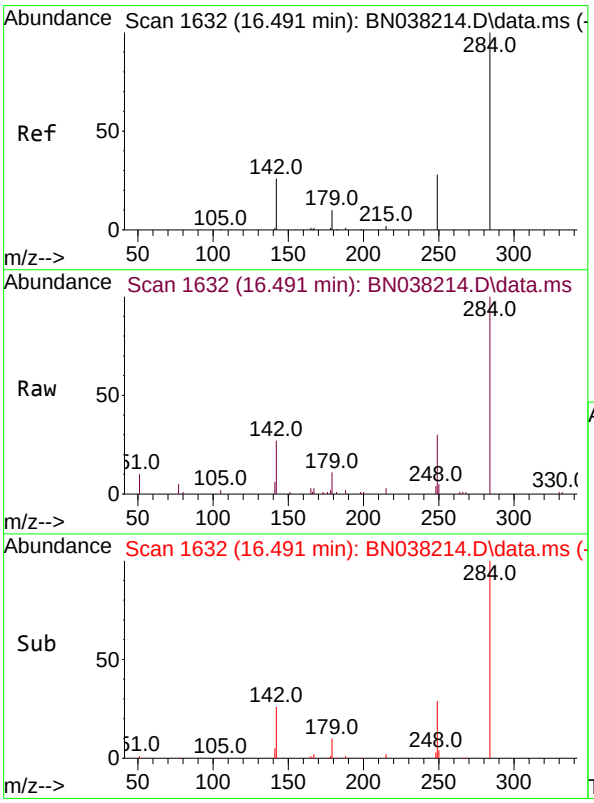
#21
4-Bromophenyl-phenylether
Concen: 0.411 ng
RT: 16.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 6223

Ion	Ratio	Lower	Upper
248	100		
250	101.0	80.8	121.2
141	51.3	41.0	61.6

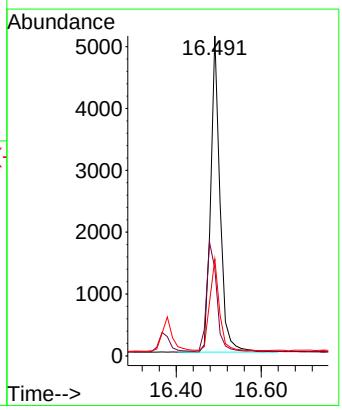


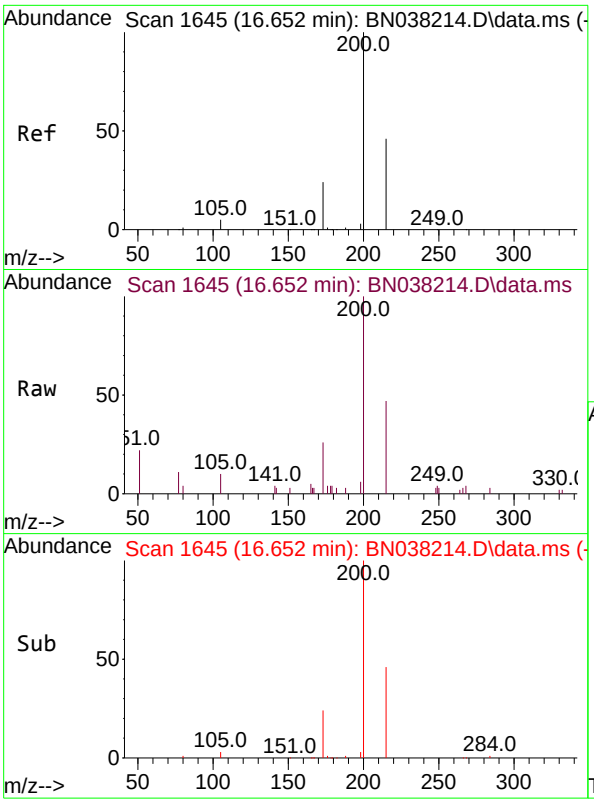


#22
Hexachlorobenzene
Concen: 0.420 ng
RT: 16.491 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion:284 Resp: 7821

Ion	Ratio	Lower	Upper
284	100		
142	38.1	30.5	45.7
249	29.8	23.8	35.8



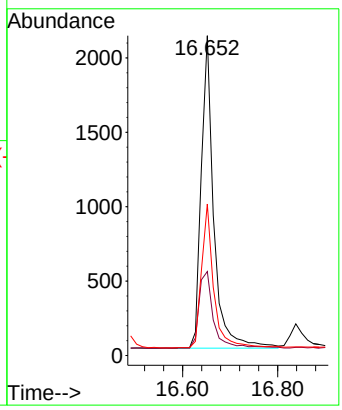


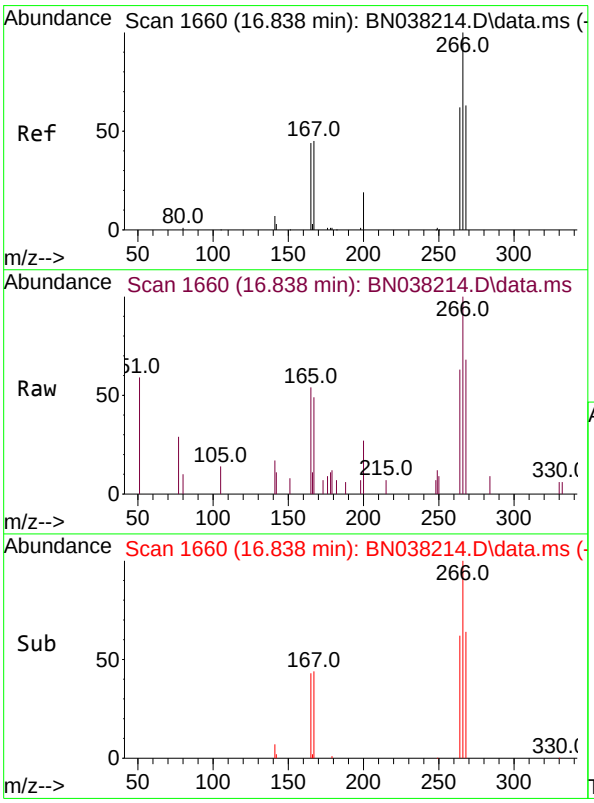
#23
Atrazine
Concen: 0.395 ng
RT: 16.652 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 3821

Ion	Ratio	Lower	Upper
200	100		
173	26.3	21.0	31.6
215	47.3	37.8	56.8

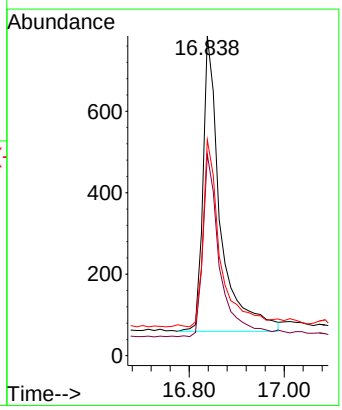


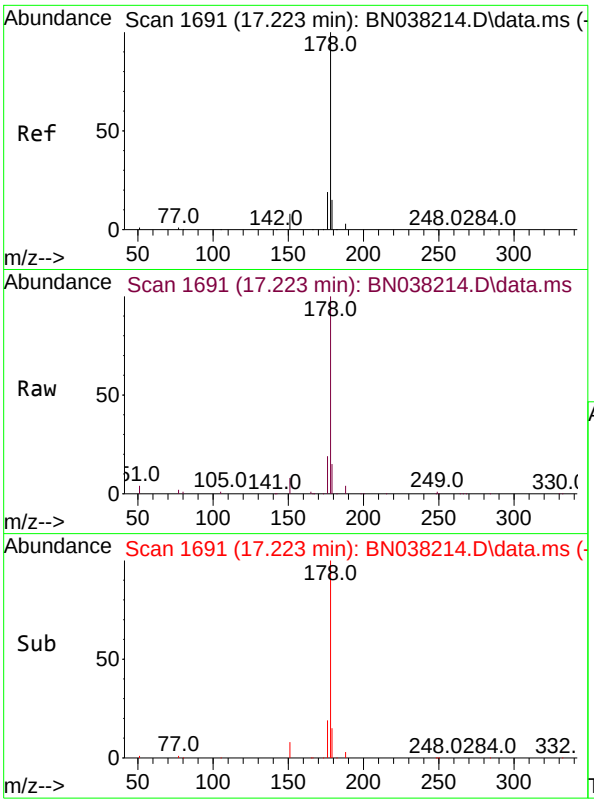


#24
Pentachlorophenol
Concen: 0.361 ng
RT: 16.838 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion:266 Resp: 1841

Ion	Ratio	Lower	Upper
266	100		
264	61.1	48.9	73.3
268	62.7	50.2	75.2



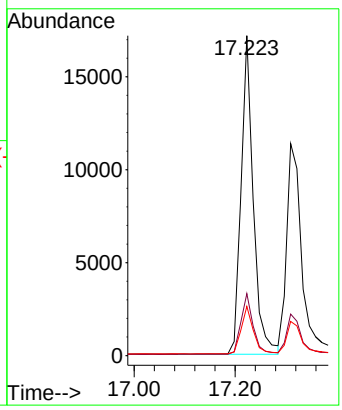


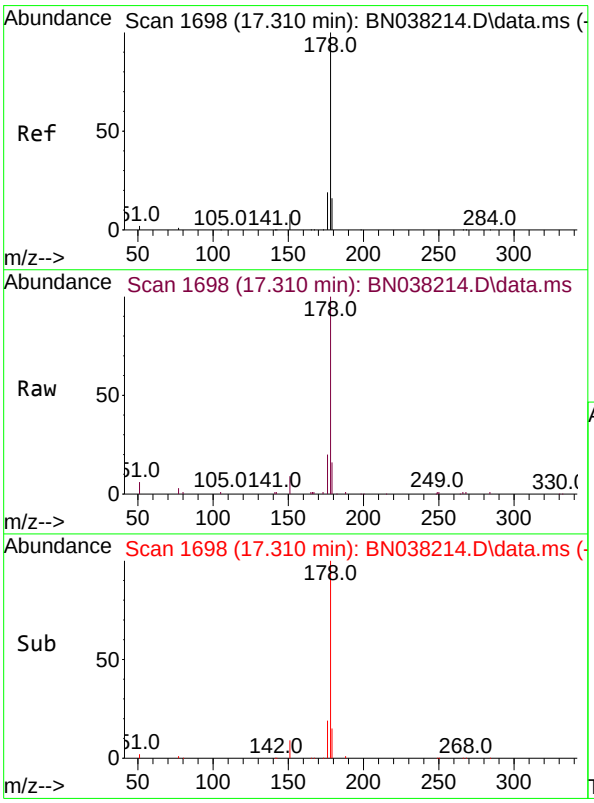
#25
Phenanthrene
Concen: 0.418 ng
RT: 17.223 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 28648

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.0	12.0	18.0

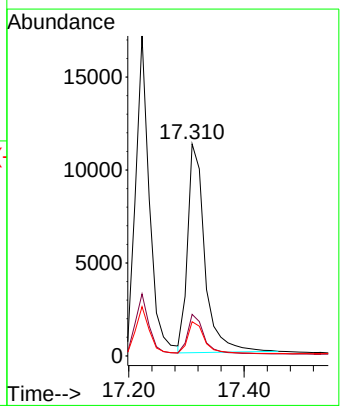


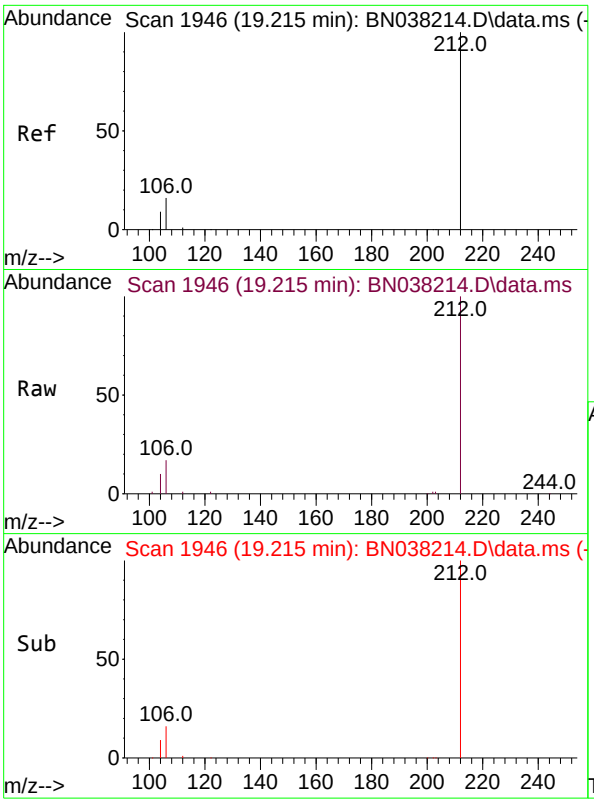


#26
Anthracene
Concen: 0.399 ng
RT: 17.310 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion:178 Resp: 23328

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.7	22.1
179	15.2	12.3	18.5



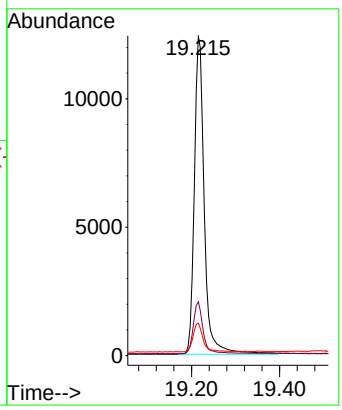


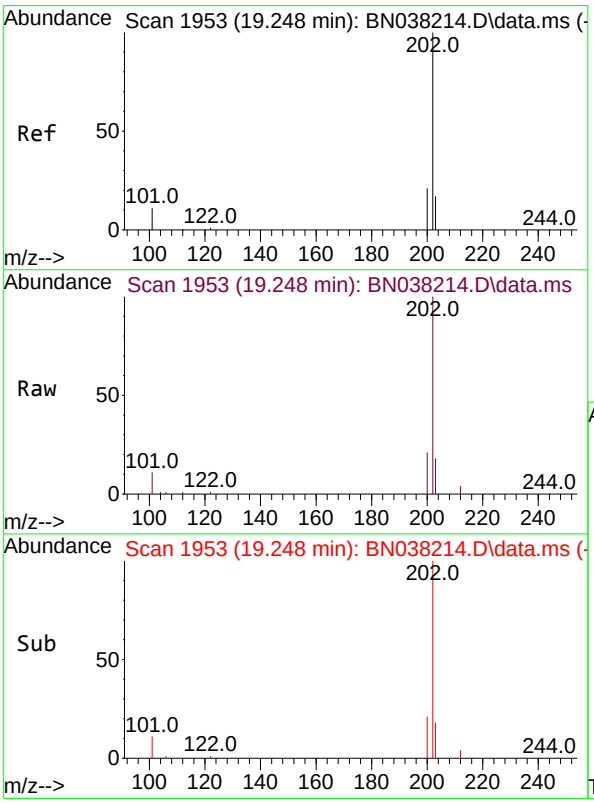
#27
Fluoranthene-d10
Concen: 0.410 ng
RT: 19.215 min Scan# 19
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 19448

Ion	Ratio	Lower	Upper
212	100		
106	15.9	12.7	19.1
104	9.1	7.3	10.9

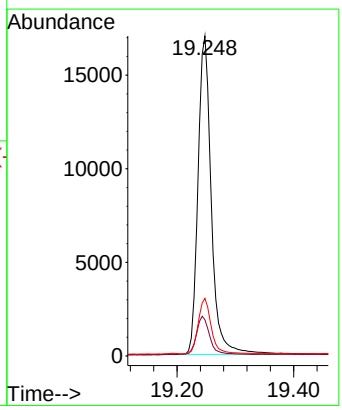


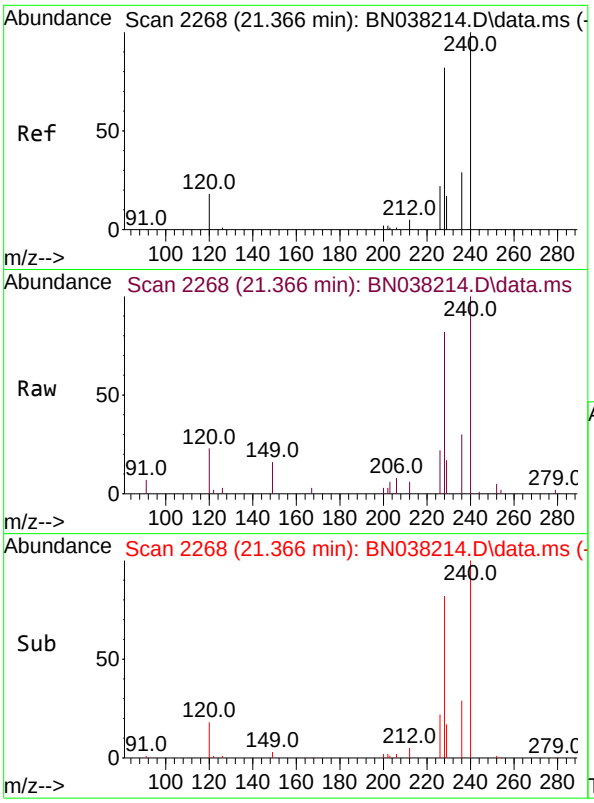


#28
Fluoranthene
Concen: 0.406 ng
RT: 19.248 min Scan# 1953
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion:202 Resp: 26807

Ion	Ratio	Lower	Upper
202	100		
101	12.2	9.8	14.6
203	17.0	13.6	20.4



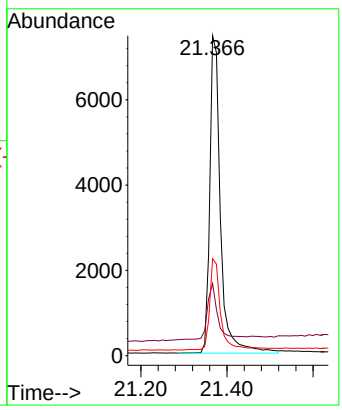


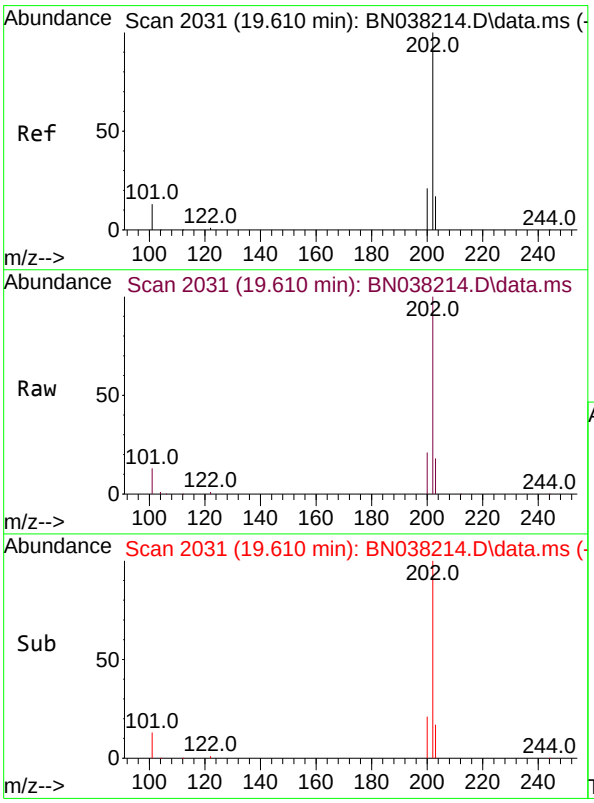
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.366 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 12804

Ion	Ratio	Lower	Upper
240	100		
120	22.6	18.1	27.1
236	30.3	24.2	36.4

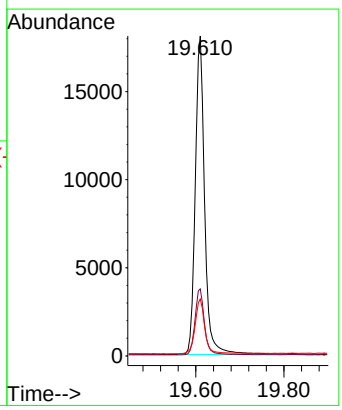


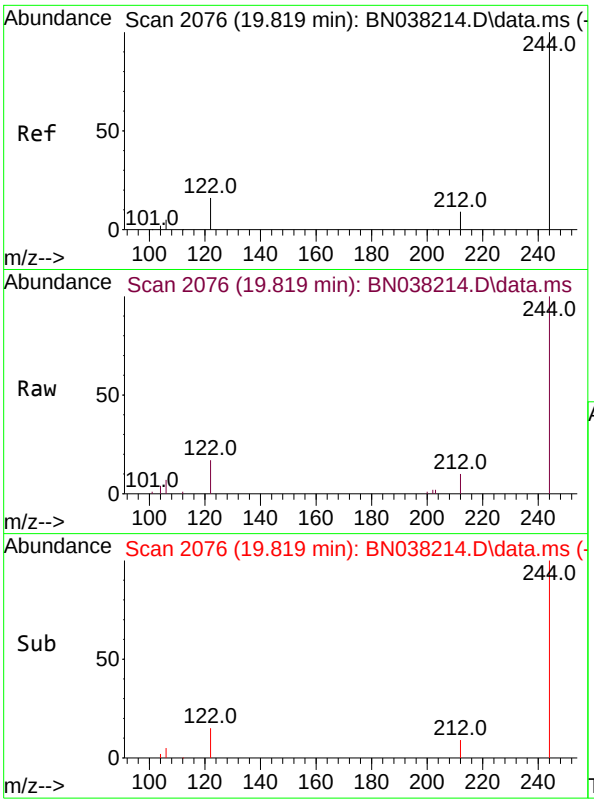


#30
Pyrene
Concen: 0.418 ng
RT: 19.610 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion:202 Resp: 26725

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	18.0	14.4	21.6



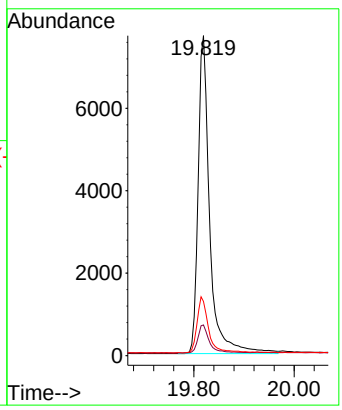


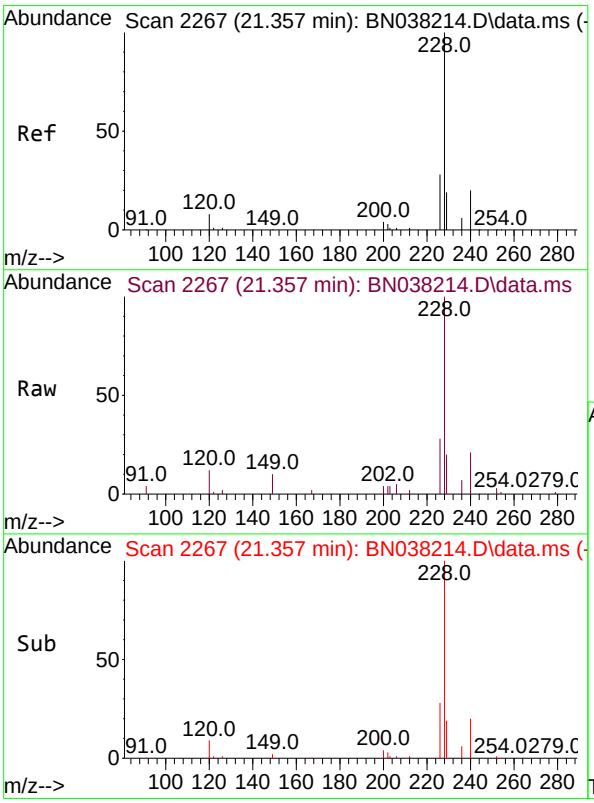
#31
Terphenyl-d14
Concen: 0.417 ng
RT: 19.819 min Scan# 20
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 12317

Ion	Ratio	Lower	Upper
244	100		
212	9.6	7.7	11.5
122	17.0	13.6	20.4

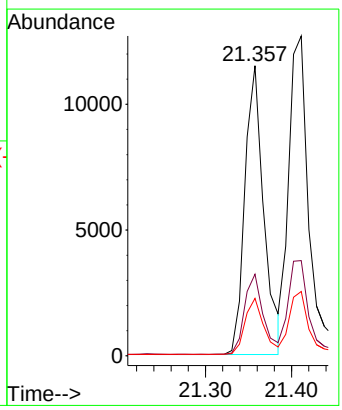


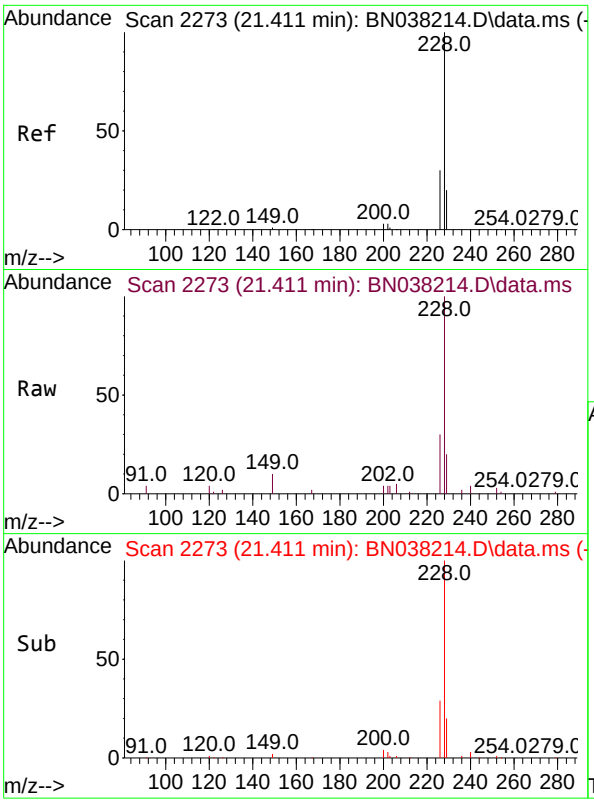


#32
Benzo(a)anthracene
Concen: 0.404 ng
RT: 21.357 min Scan# 2267
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion:228 Resp: 17510

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.6	33.8
229	19.8	15.8	23.8



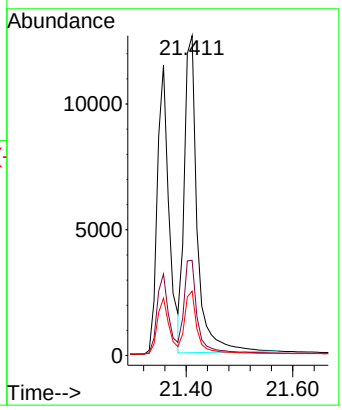


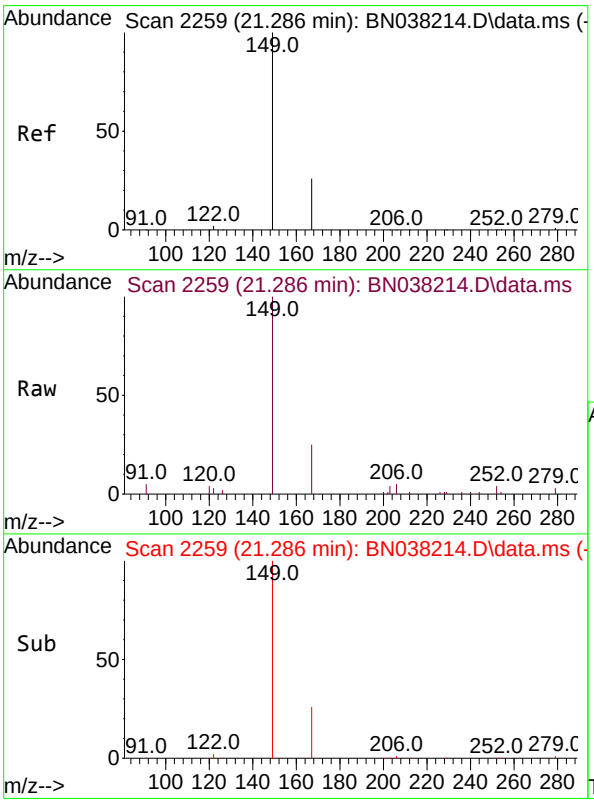
#33
Chrysene
Concen: 0.416 ng
RT: 21.411 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 21267

Ion	Ratio	Lower	Upper
228	100		
226	29.8	23.8	35.8
229	20.1	16.1	24.1

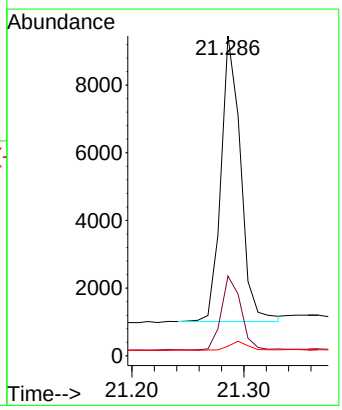


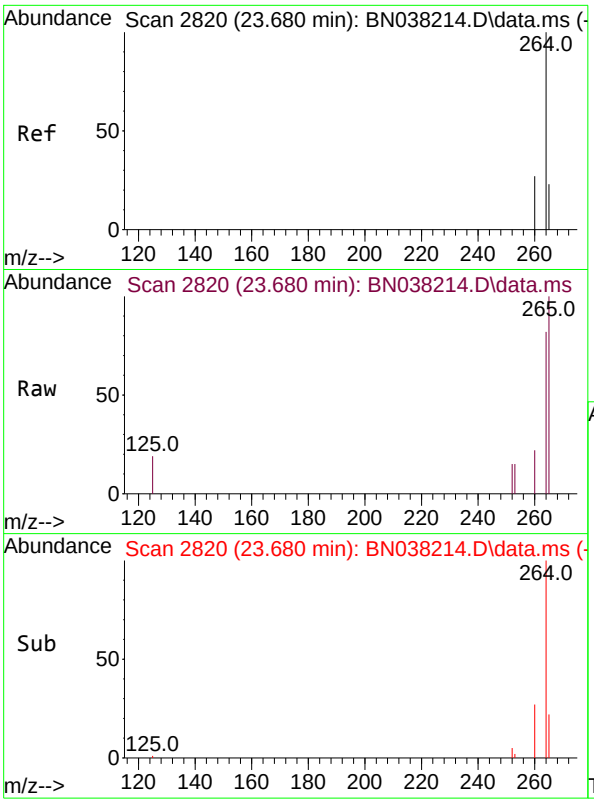


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.432 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion:149 Resp: 10262

Ion	Ratio	Lower	Upper
149	100		
167	25.9	20.7	31.1
279	3.1	2.5	3.7



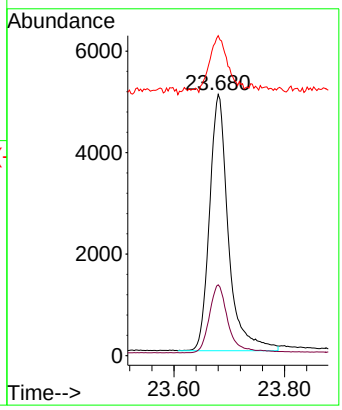


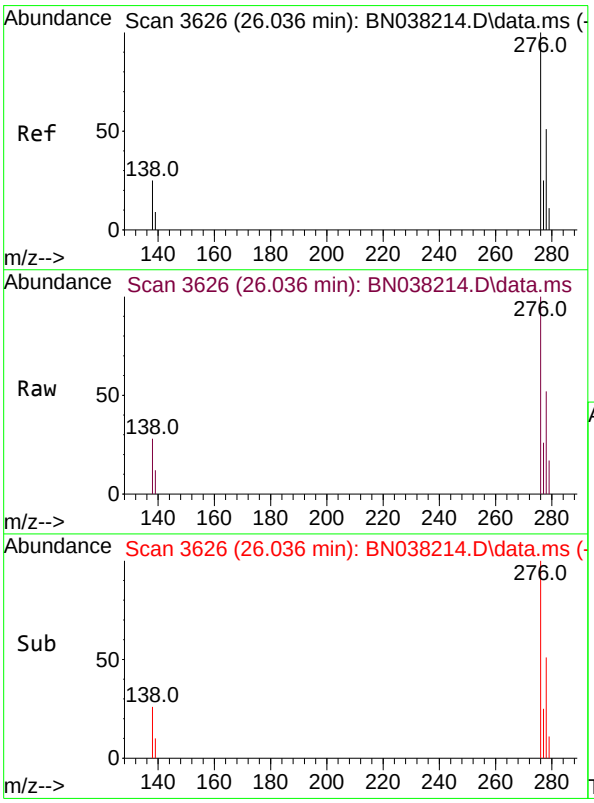
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.680 min Scan# 28
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 11960

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.7	32.5
265	122.5	98.0	147.0

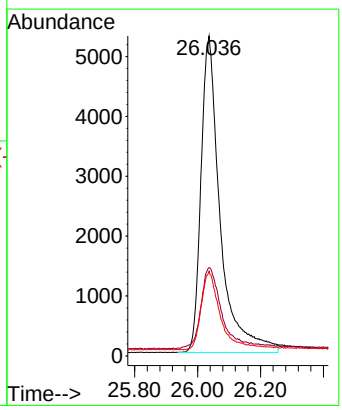


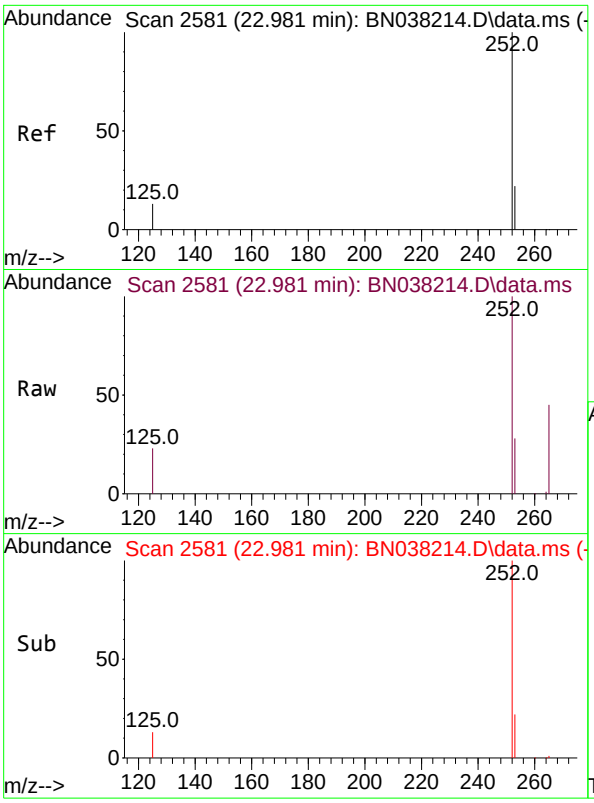


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.405 ng
RT: 26.036 min Scan# 3626
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion:276 Resp: 22427

Ion	Ratio	Lower	Upper
276	100		
138	26.8	21.4	32.2
277	23.9	19.1	28.7



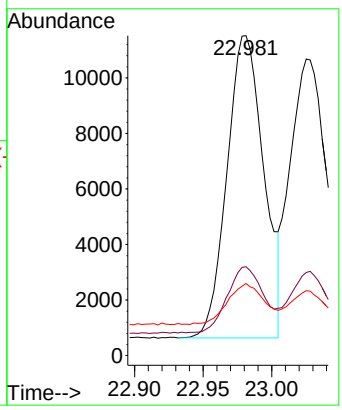


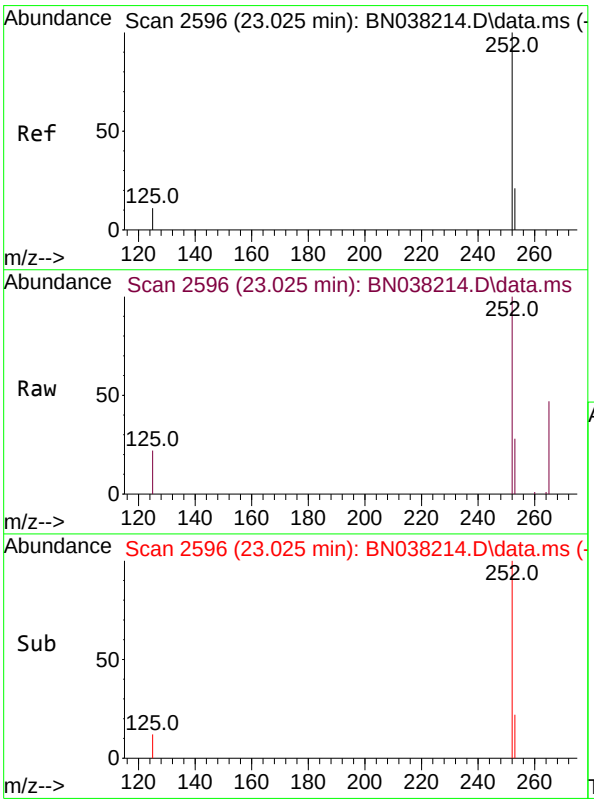
#37
Benzo(b)fluoranthene
Concen: 0.415 ng
RT: 22.981 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 20366

Ion	Ratio	Lower	Upper
252	100		
253	27.8	22.2	33.4
125	22.5	18.0	27.0

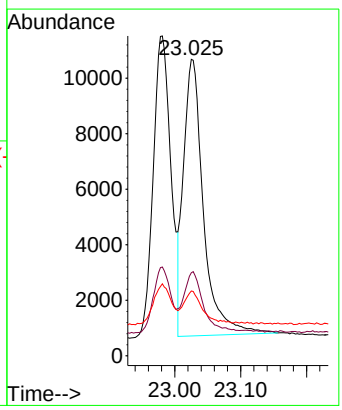


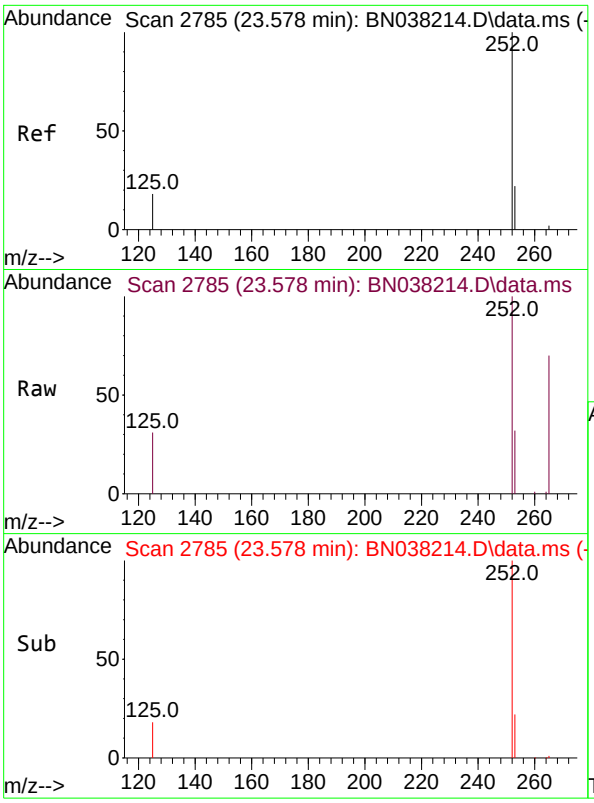


#38
Benzo(k)fluoranthene
Concen: 0.412 ng
RT: 23.025 min Scan# 2596
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion:252 Resp: 21024

Ion	Ratio	Lower	Upper
252	100		
253	28.0	22.4	33.6
125	21.9	17.5	26.3



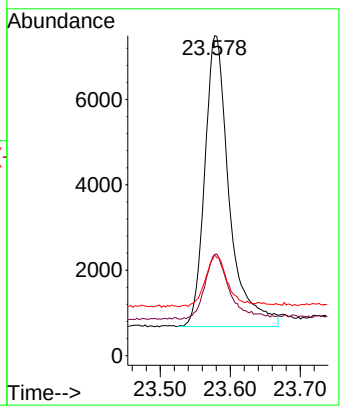


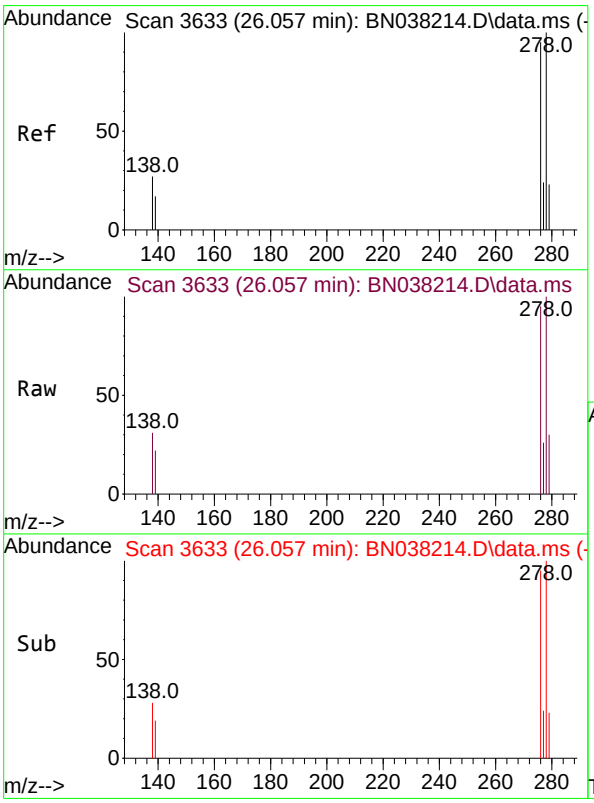
#39
Benzo(a)pyrene
Concen: 0.403 ng
RT: 23.578 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 16572

Ion	Ratio	Lower	Upper
252	100		
253	31.6	25.3	37.9
125	31.5	25.2	37.8

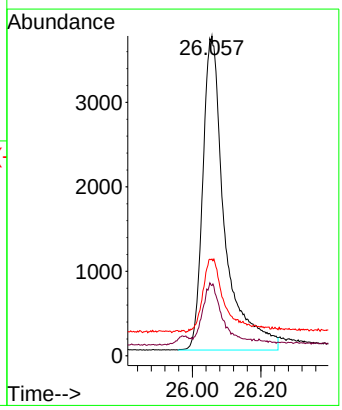


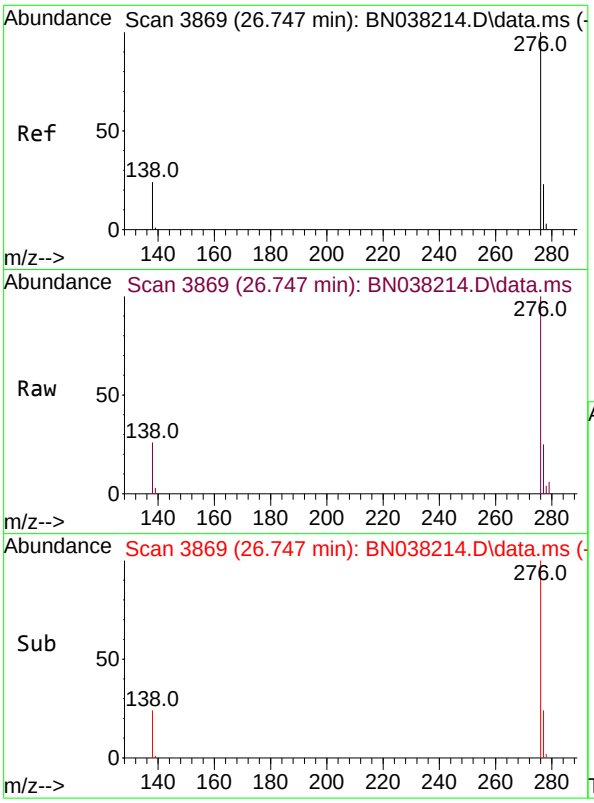


#40
Dibenzo(a,h)anthracene
Concen: 0.394 ng
RT: 26.057 min Scan# 3633
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Tgt Ion:278 Resp: 16493

Ion	Ratio	Lower	Upper
278	100		
139	22.0	17.6	26.4
279	30.3	24.2	36.4



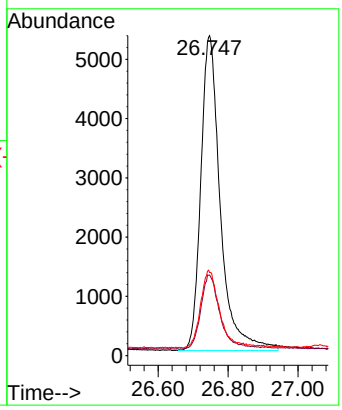


#41
Benzo(g,h,i)perylene
Concen: 0.413 ng
RT: 26.747 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN038214.D
Acq: 26 Nov 2025 21:48

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 20578

Ion	Ratio	Lower	Upper
276	100		
277	25.2	20.2	30.2
138	26.0	20.8	31.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038215.D
Acq On : 26 Nov 2025 22:25
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Nov 28 20:55:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.768	152	8546	0.400	ng		0.00
7) Naphthalene-d8	10.573	136	26276	0.400	ng		0.00
13) Acenaphthene-d10	14.430	164	14915	0.400	ng		0.00
19) Phenanthrene-d10	17.186	188	25075	0.400	ng		0.00
29) Chrysene-d12	21.366	240	14204	0.400	ng		0.00
35) Perylene-d12	23.680	264	12837	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.341	112	15064	0.754	ng		0.00
5) Phenol-d6	6.930	99	18777	0.752	ng		0.00
8) Nitrobenzene-d5	8.918	82	15990	0.761	ng		0.00
11) 2-Methylnaphthalene-d10	12.167	152	29298	0.785	ng		0.00
14) 2,4,6-Tribromophenol	15.932	330	3651	0.778	ng		0.00
15) 2-Fluorobiphenyl	13.051	172	46122	0.801	ng		0.00
27) Fluoranthene-d10	19.215	212	40949	0.753	ng		0.00
31) Terphenyl-d14	19.819	244	25737	0.785	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.254	88	6773	0.752	ng		98
3) n-Nitrosodimethylamine	3.557	42	8767	0.790	ng	#	97
6) bis(2-Chloroethyl)ether	7.190	93	18562	0.777	ng		99
9) Naphthalene	10.616	128	56483	0.774	ng		99
10) Hexachlorobutadiene	10.915	225	9583	0.772	ng	#	98
12) 2-Methylnaphthalene	12.243	142	37750	0.786	ng		99
16) Acenaphthylene	14.142	152	50771	0.761	ng		100
17) Acenaphthene	14.494	154	35729	0.768	ng		100
18) Fluorene	15.478	166	46865	0.779	ng		99
20) 4,6-Dinitro-2-methylph...	15.560	198	1567	0.756	ng	#	38
21) 4-Bromophenyl-phenylether	16.379	248	13443	0.774	ng		96
22) Hexachlorobenzene	16.491	284	16054	0.752	ng		99
23) Atrazine	16.652	200	8217	0.741	ng		96
24) Pentachlorophenol	16.838	266	3987	0.681	ng		98
25) Phenanthrene	17.223	178	60297	0.766	ng		100
26) Anthracene	17.310	178	50969	0.759	ng		100
28) Fluoranthene	19.248	202	57482	0.758	ng		100
30) Pyrene	19.610	202	56009	0.789	ng		100
32) Benzo(a)anthracene	21.357	228	37504	0.780	ng		99
33) Chrysene	21.402	228	43104	0.759	ng		98
34) Bis(2-ethylhexyl)phtha...	21.286	149	19894	0.755	ng		99
36) Indeno(1,2,3-cd)pyrene	26.031	276	44577	0.750	ng		99
37) Benzo(b)fluoranthene	22.981	252	40731	0.773	ng	#	91
38) Benzo(k)fluoranthene	23.025	252	42564	0.777	ng	#	91
39) Benzo(a)pyrene	23.578	252	33796	0.765	ng	#	86
40) Dibenzo(a,h)anthracene	26.054	278	34639	0.770	ng		94
41) Benzo(g,h,i)perylene	26.744	276	41508	0.777	ng		100

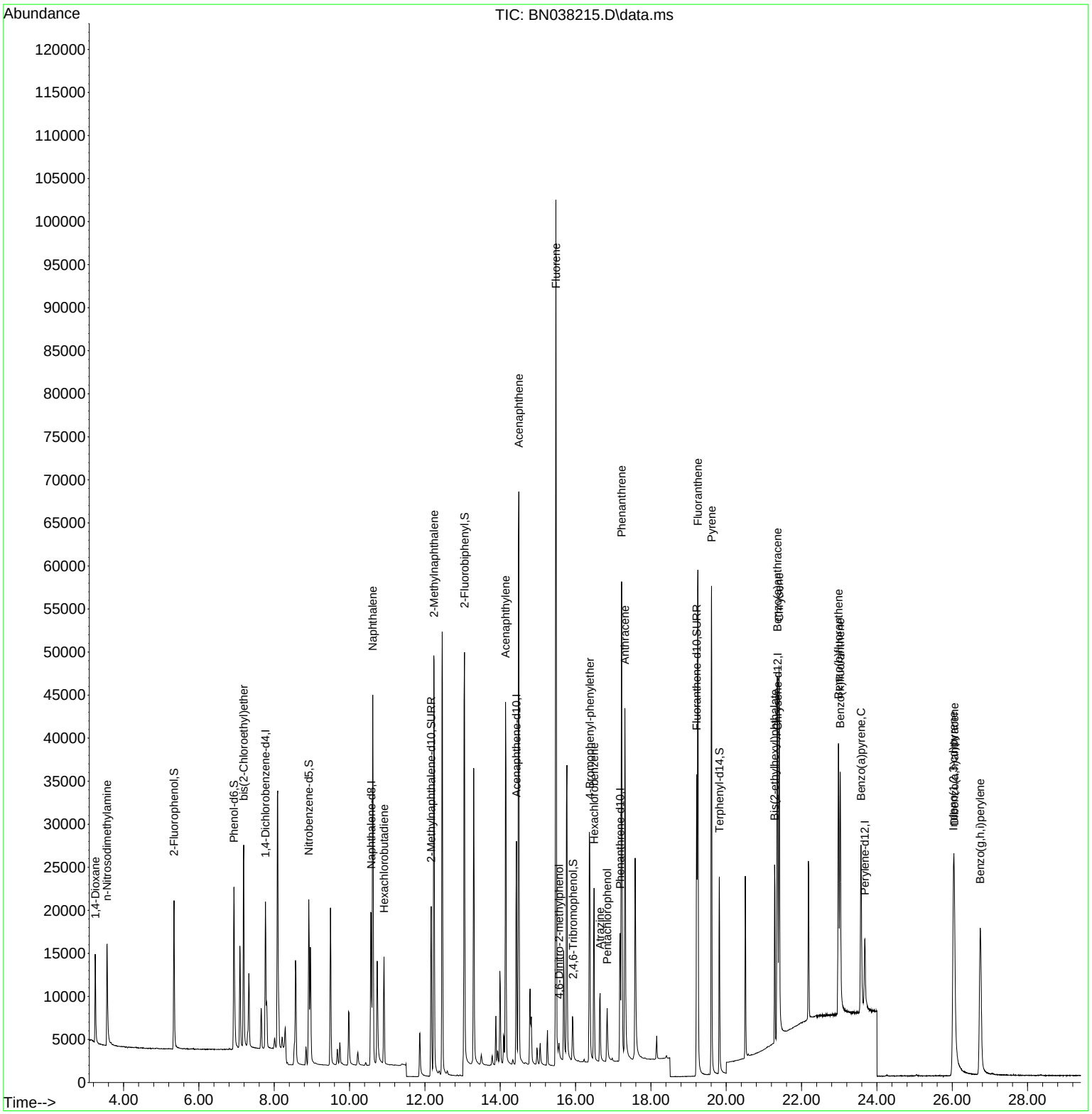
(#) = qualifier out of range (m) = manual integration (+) = signals summed

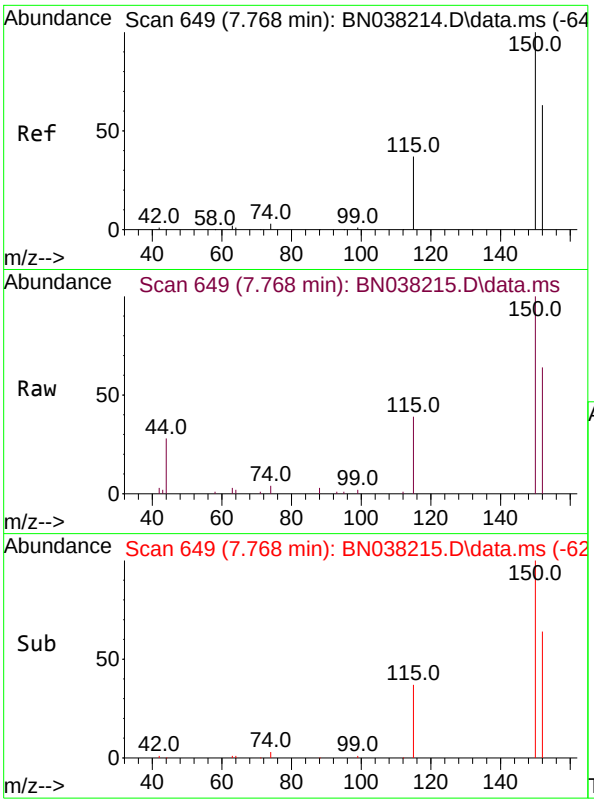
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038215.D
Acq On : 26 Nov 2025 22:25
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 15 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Nov 28 20:55:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 2025
Response via : Initial Calibration



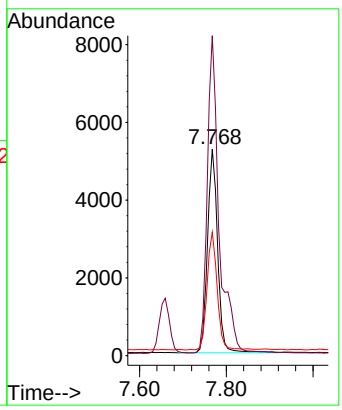


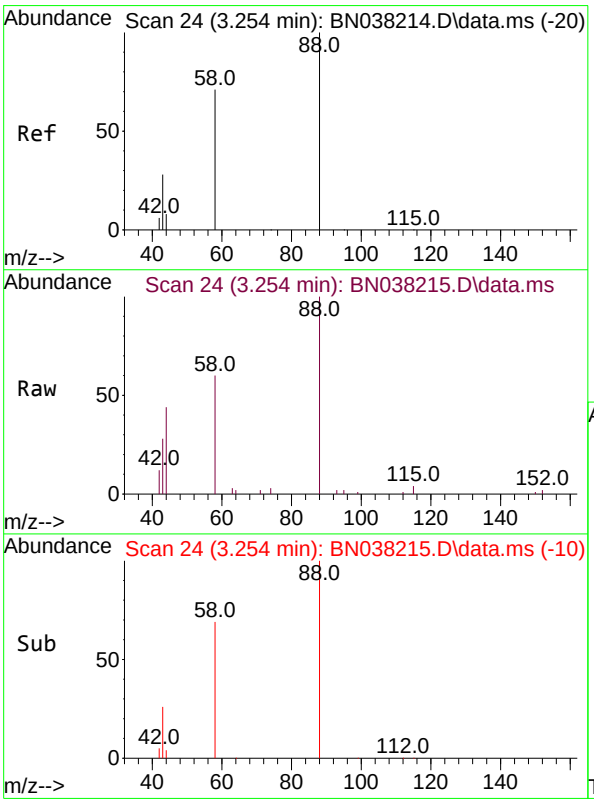
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.768 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 8546

Ion	Ratio	Lower	Upper
152	100		
150	155.1	125.3	187.9
115	59.8	49.0	73.4

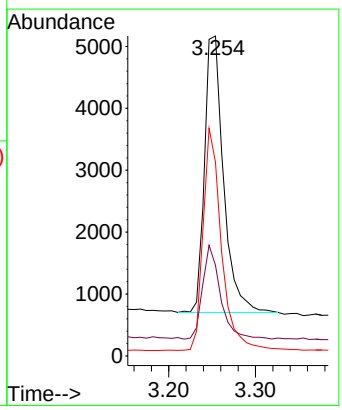


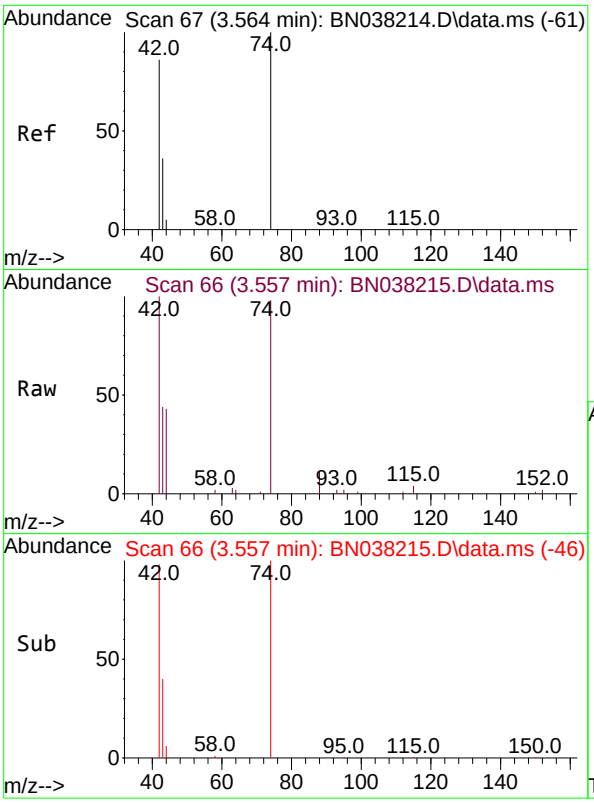


#2
1,4-Dioxane
Concen: 0.752 ng
RT: 3.254 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion: 88 Resp: 6773

Ion	Ratio	Lower	Upper
88	100		
43	32.1	24.8	37.2
58	77.6	61.1	91.7



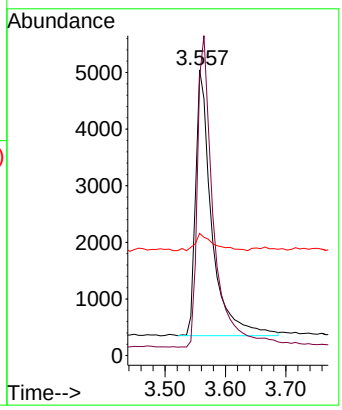


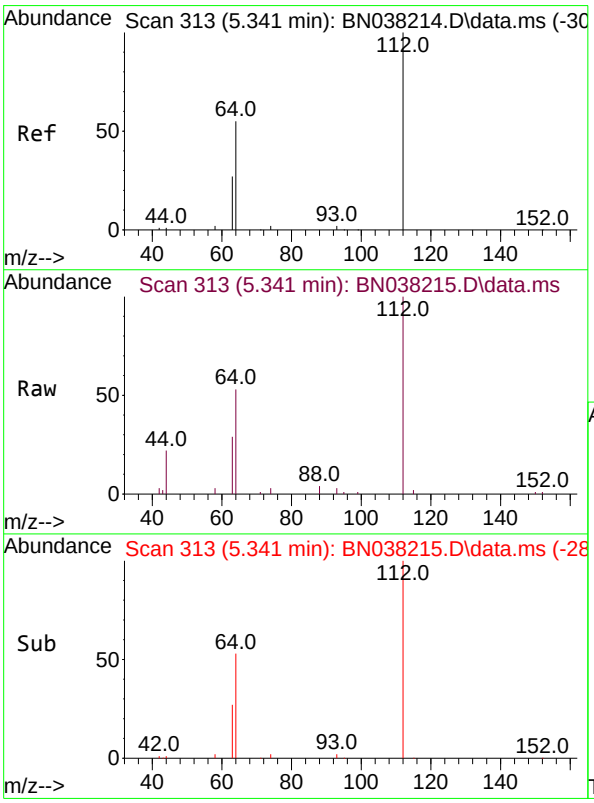
#3
n-Nitrosodimethylamine
Concen: 0.790 ng
RT: 3.557 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 8767

Ion	Ratio	Lower	Upper
42	100		
74	117.4	96.2	144.2
44	7.3	8.0	12.0#

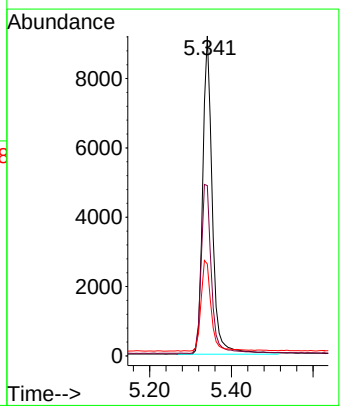


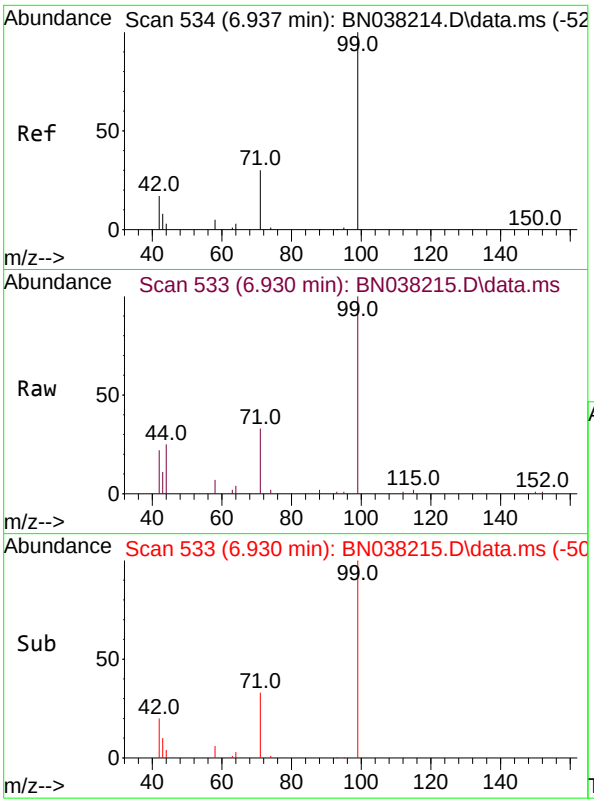


#4
2-Fluorophenol
Concen: 0.754 ng
RT: 5.341 min Scan# 313
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion:112 Resp: 15064

Ion	Ratio	Lower	Upper
112	100		
64	56.7	45.0	67.4
63	30.1	23.2	34.8



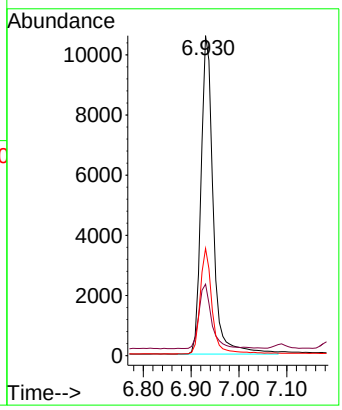


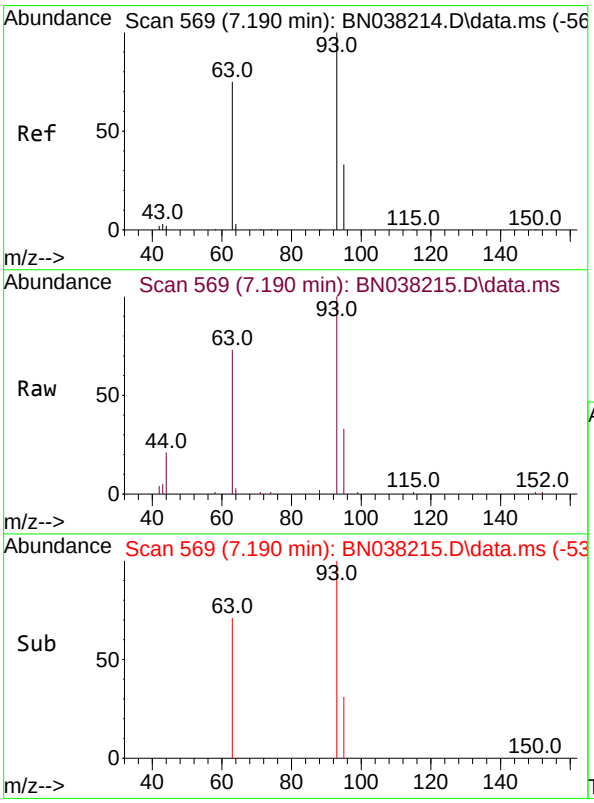
#5
Phenol-d6
Concen: 0.752 ng
RT: 6.930 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 18777

Ion	Ratio	Lower	Upper
99	100		
42	20.9	17.0	25.6
71	32.5	25.4	38.2

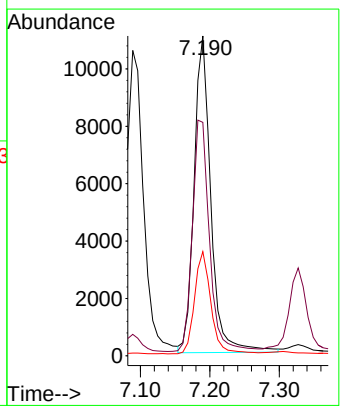


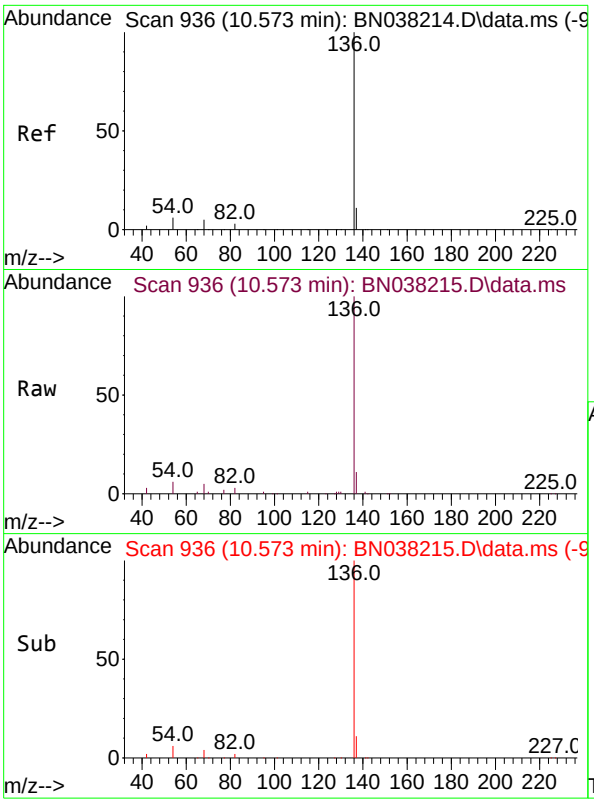


#6
bis(2-Chloroethyl)ether
Concen: 0.777 ng
RT: 7.190 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion: 93 Resp: 18562

Ion	Ratio	Lower	Upper
93	100		
63	74.2	58.1	87.1
95	31.5	25.1	37.7



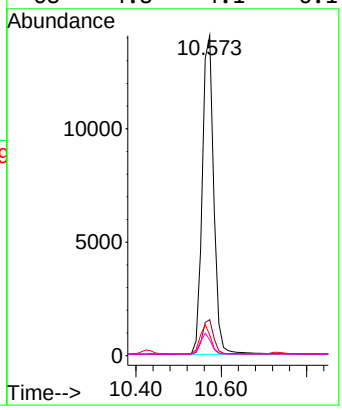


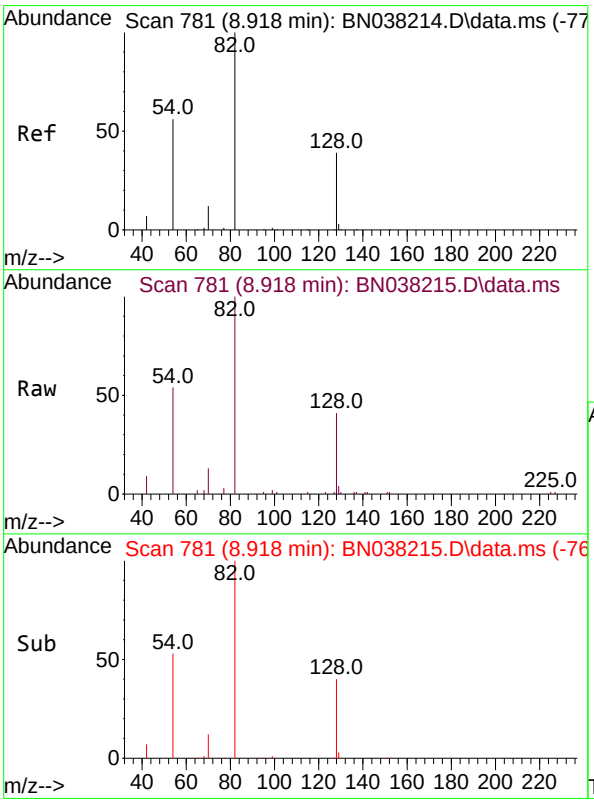
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.573 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 26276

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	6.4	5.4	8.0
68	4.8	4.1	6.1

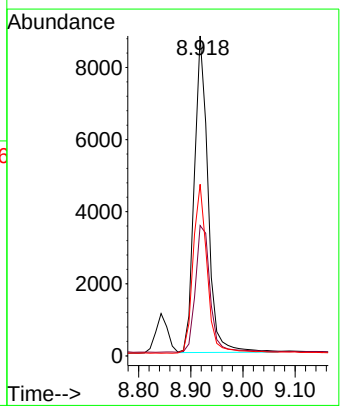


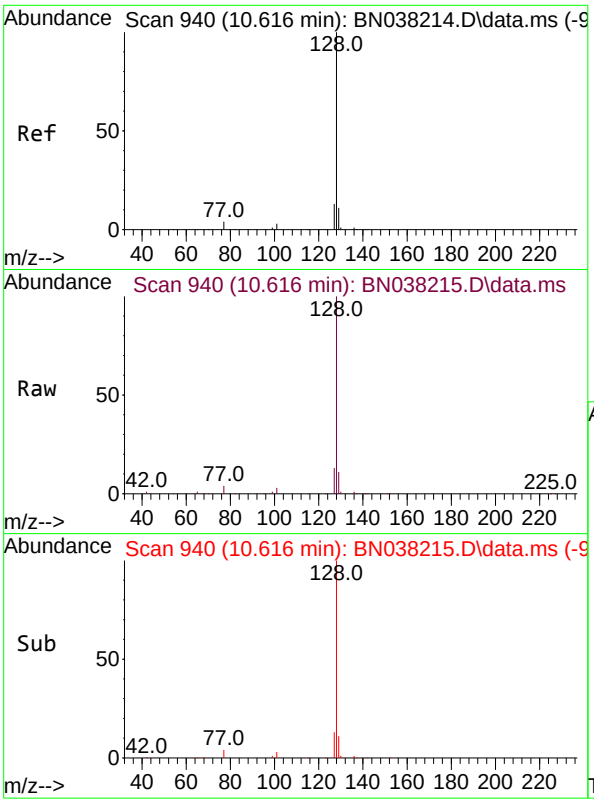


#8
Nitrobenzene-d5
Concen: 0.761 ng
RT: 8.918 min Scan# 781
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion: 82 Resp: 15990

Ion	Ratio	Lower	Upper
82	100		
128	40.7	32.6	48.8
54	53.6	45.4	68.0



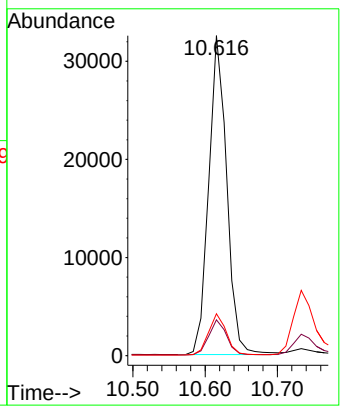


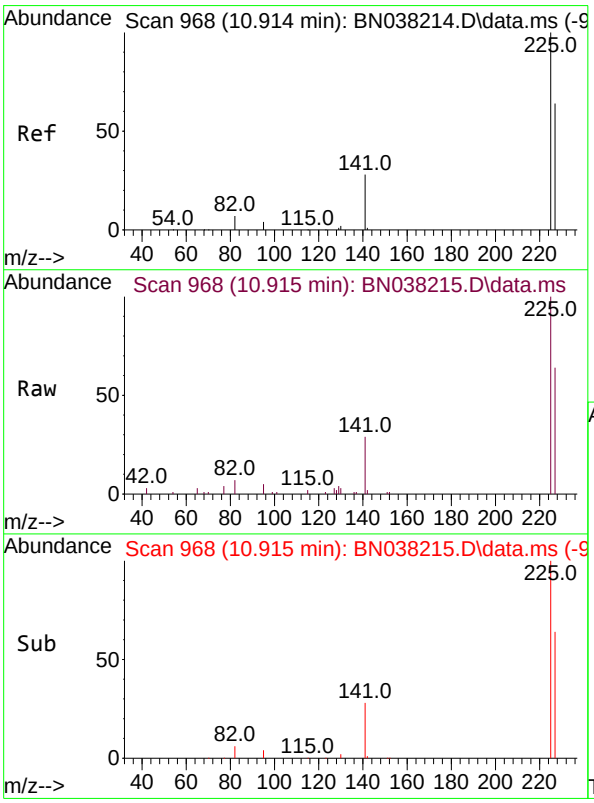
#9
Naphthalene
Concen: 0.774 ng
RT: 10.616 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 56483

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.1	13.7
127	13.1	10.6	16.0

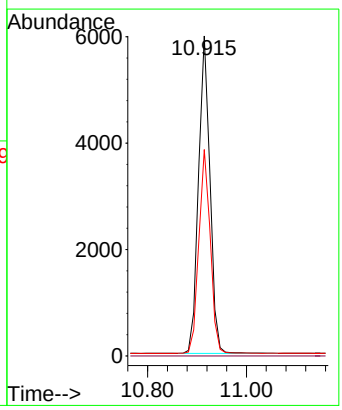


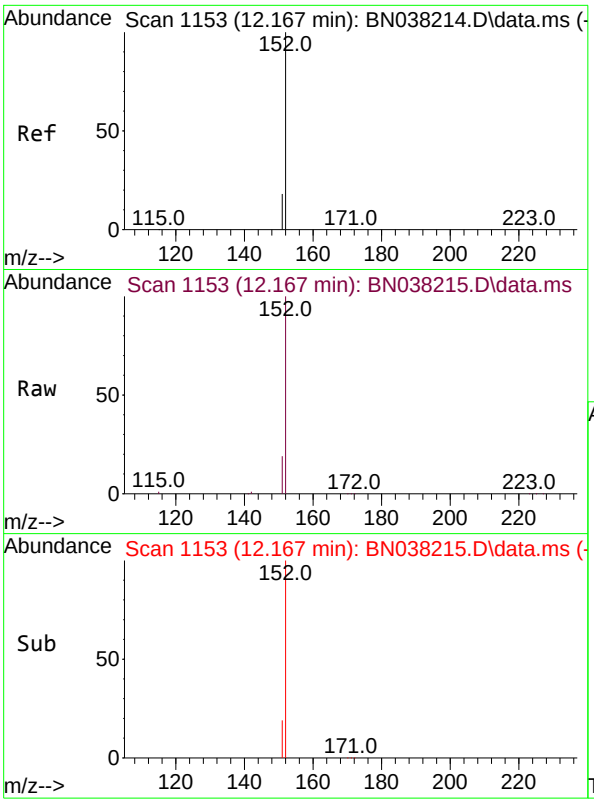


#10
Hexachlorobutadiene
Concen: 0.772 ng
RT: 10.915 min Scan# 968
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion:225 Resp: 9583

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.4	50.5	75.7



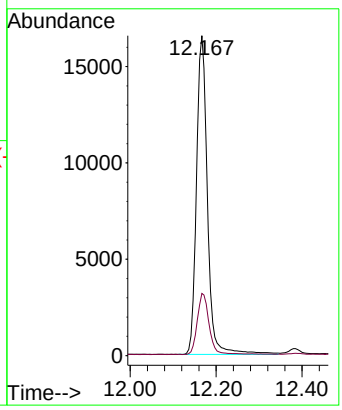


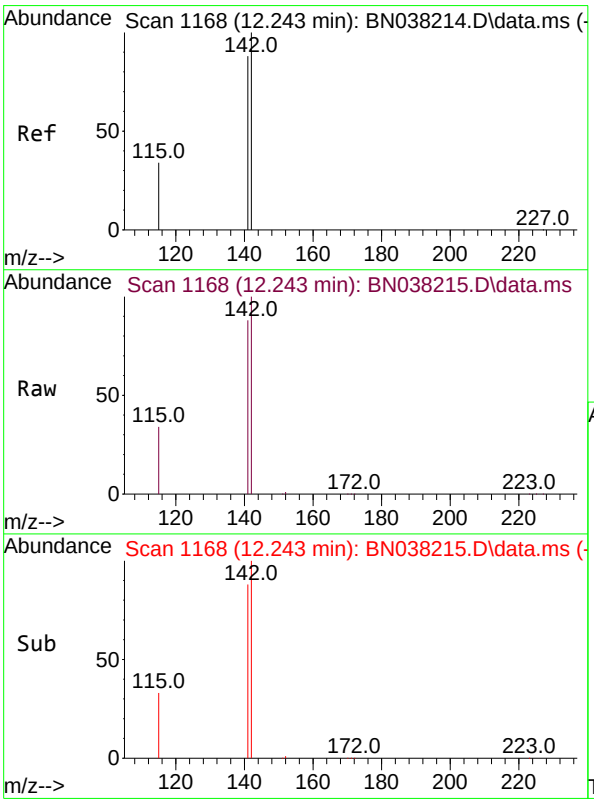
#11
2-Methylnaphthalene-d10
Concen: 0.785 ng
RT: 12.167 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 29298

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.7	25.1

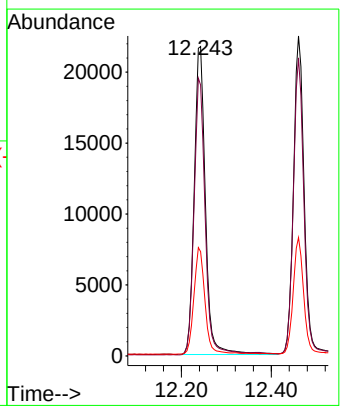


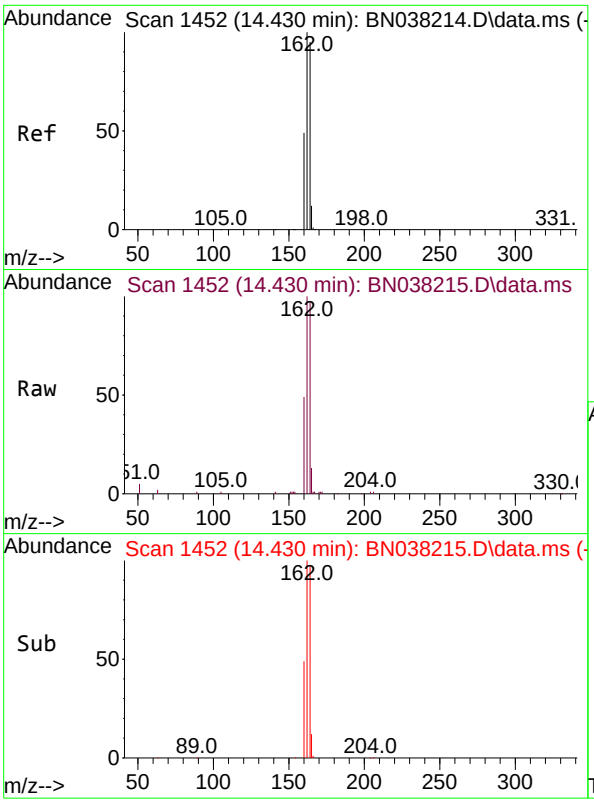


#12
2-Methylnaphthalene
Concen: 0.786 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion:142 Resp: 37750

Ion	Ratio	Lower	Upper
142	100		
141	87.5	70.9	106.3
115	33.7	27.7	41.5



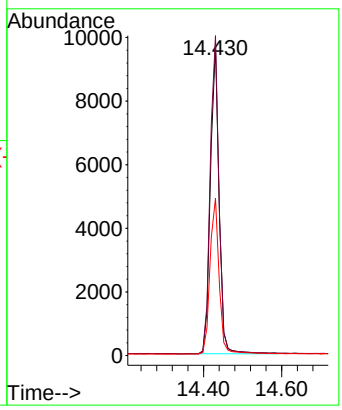


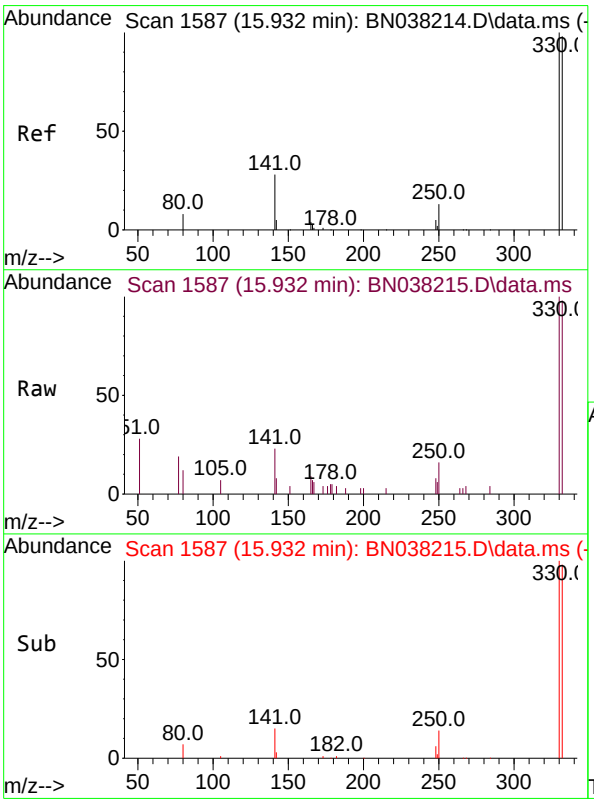
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 14915

Ion	Ratio	Lower	Upper
164	100		
162	103.1	83.8	125.8
160	50.7	41.6	62.4

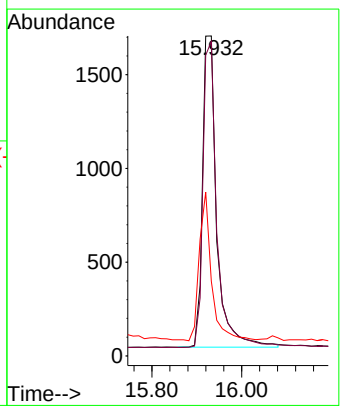


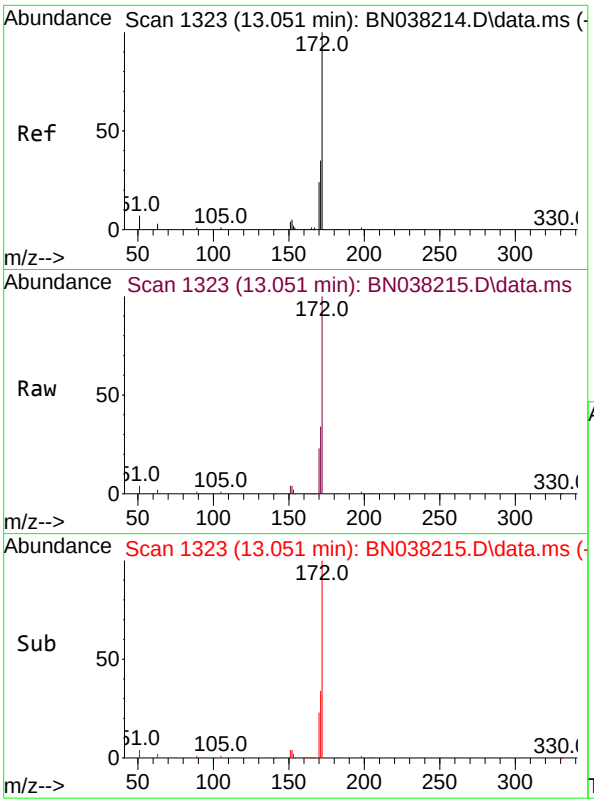


#14
2,4,6-Tribromophenol
Concen: 0.778 ng
RT: 15.932 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion:330 Resp: 3651

Ion	Ratio	Lower	Upper
330	100		
332	97.0	77.8	116.6
141	40.0	33.0	49.4



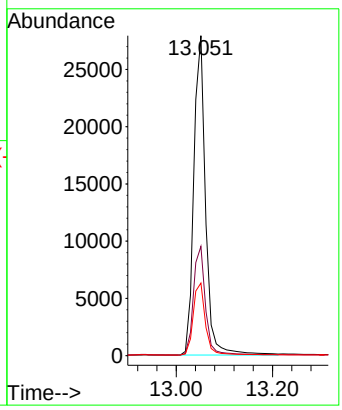


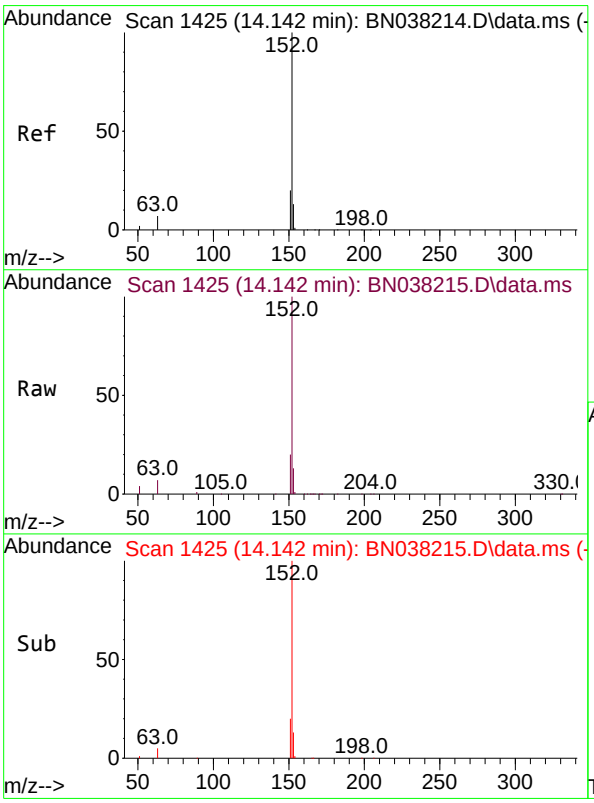
#15
2-Fluorobiphenyl
Concen: 0.801 ng
RT: 13.051 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 46122

Ion	Ratio	Lower	Upper
172	100		
171	34.1	28.1	42.1
170	22.7	19.1	28.7

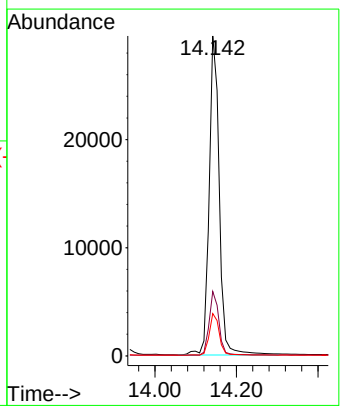


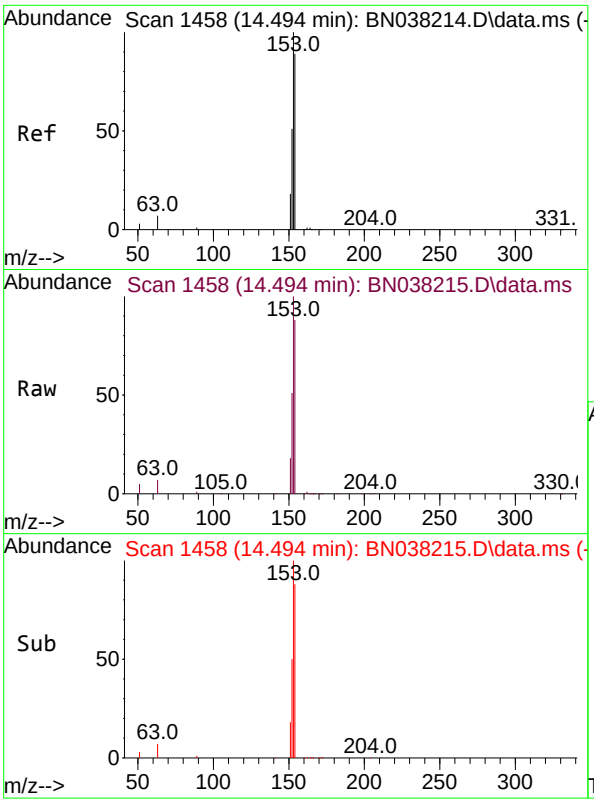


#16
Acenaphthylene
Concen: 0.761 ng
RT: 14.142 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion:152 Resp: 50771

Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.6	23.4
153	13.0	10.6	15.8



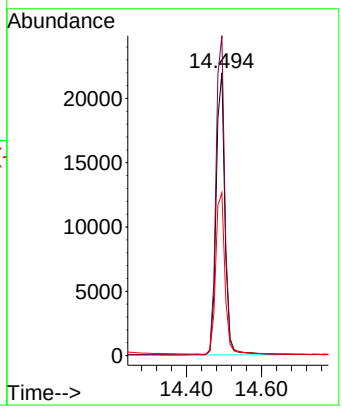


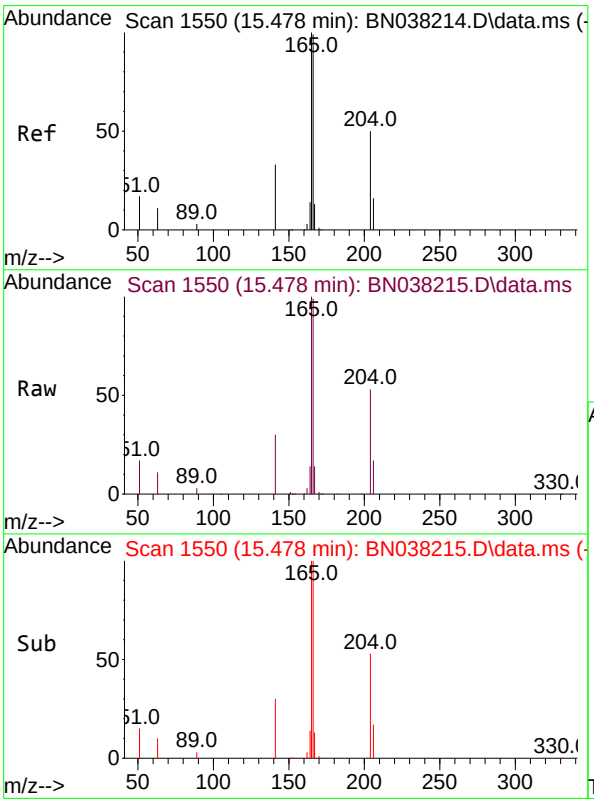
#17
Acenaphthene
Concen: 0.768 ng
RT: 14.494 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 35729

Ion	Ratio	Lower	Upper
154	100		
153	114.6	91.1	136.7
152	60.2	48.2	72.2

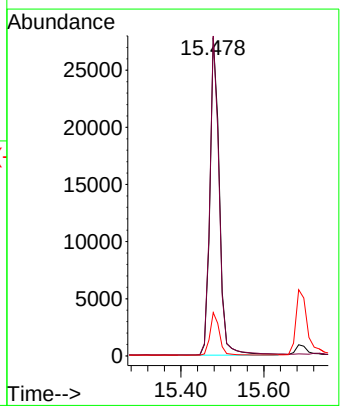


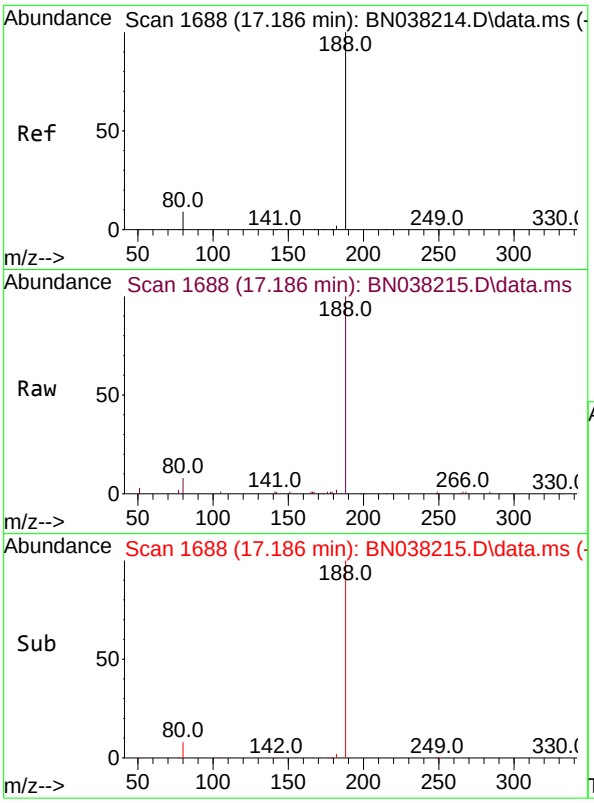


#18
Fluorene
Concen: 0.779 ng
RT: 15.478 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion:166 Resp: 46865

Ion	Ratio	Lower	Upper
166	100		
165	100.0	78.7	118.1
167	13.4	10.9	16.3



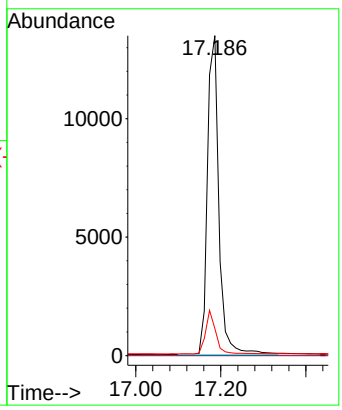


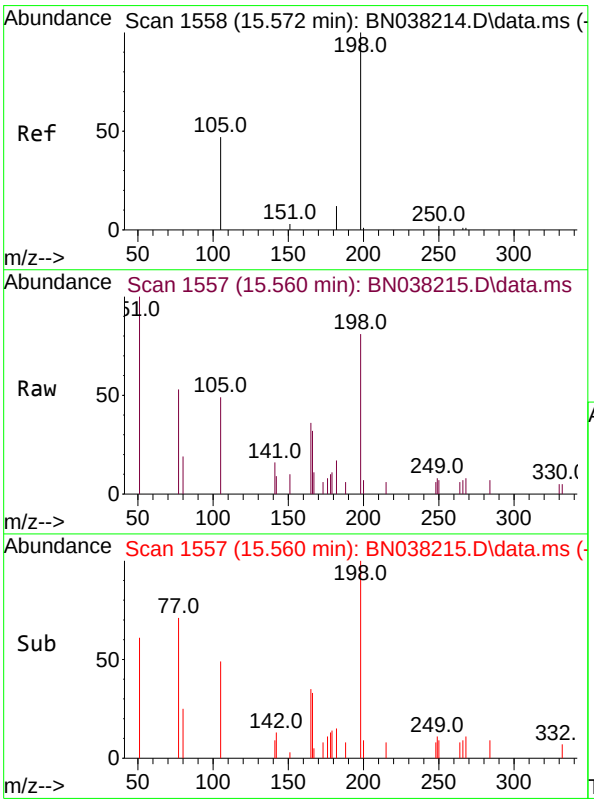
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 25075

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.5	7.7	11.5

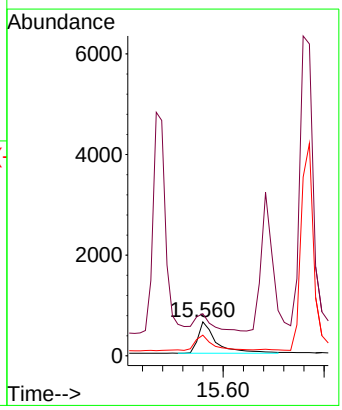


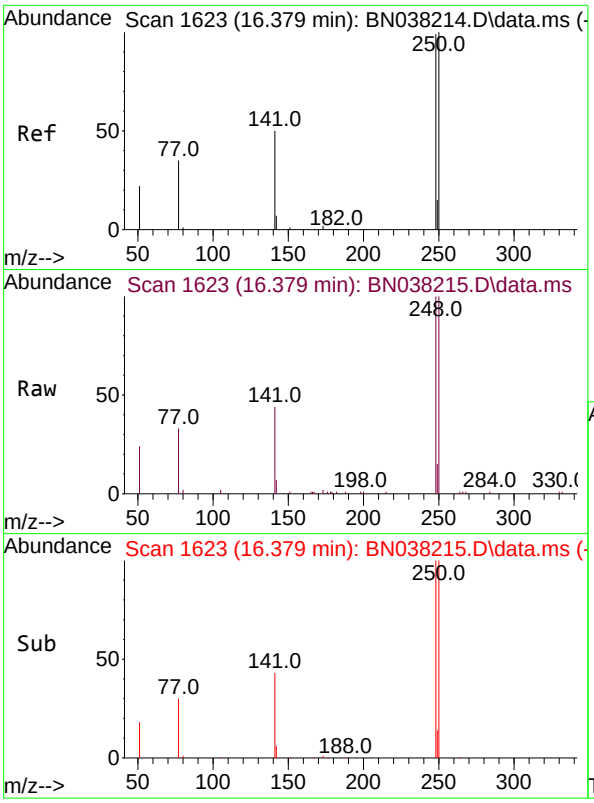


#20
4,6-Dinitro-2-methylphenol
Concen: 0.756 ng
RT: 15.560 min Scan# 1557
Delta R.T. -0.012 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion:198 Resp: 1567

Ion	Ratio	Lower	Upper
198	100		
51	124.0	205.1	307.7#
105	61.1	61.6	92.4#



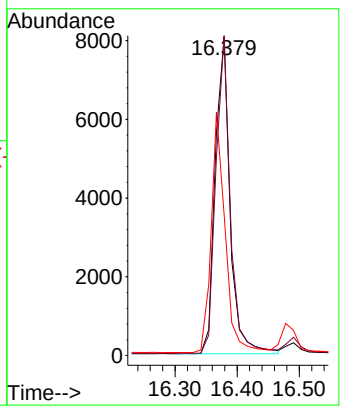


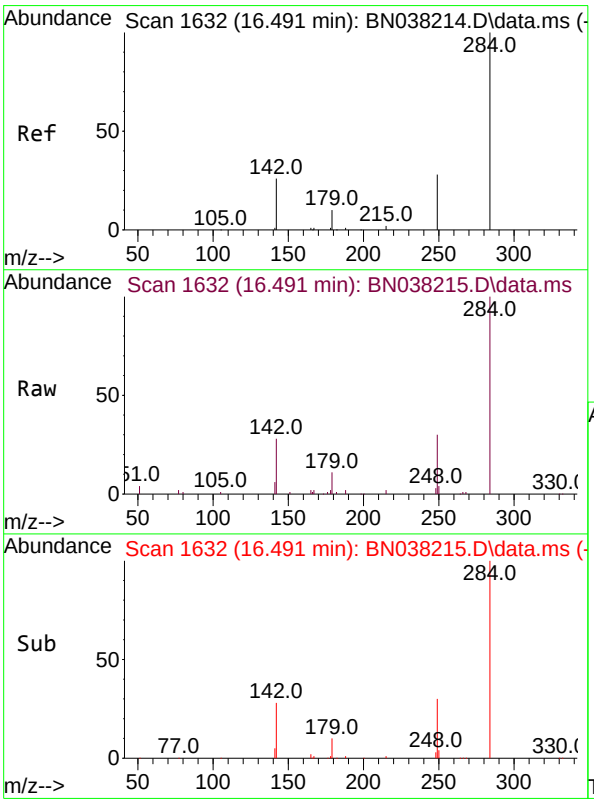
#21
4-Bromophenyl-phenylether
Concen: 0.774 ng
RT: 16.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 13443

Ion	Ratio	Lower	Upper
248	100		
250	100.4	80.8	121.2
141	44.3	41.0	61.6

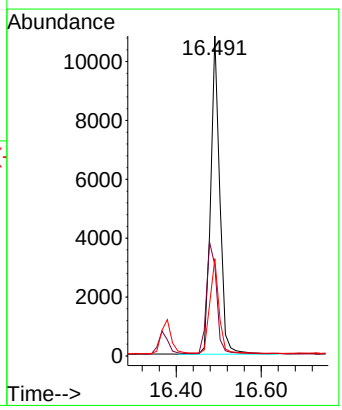


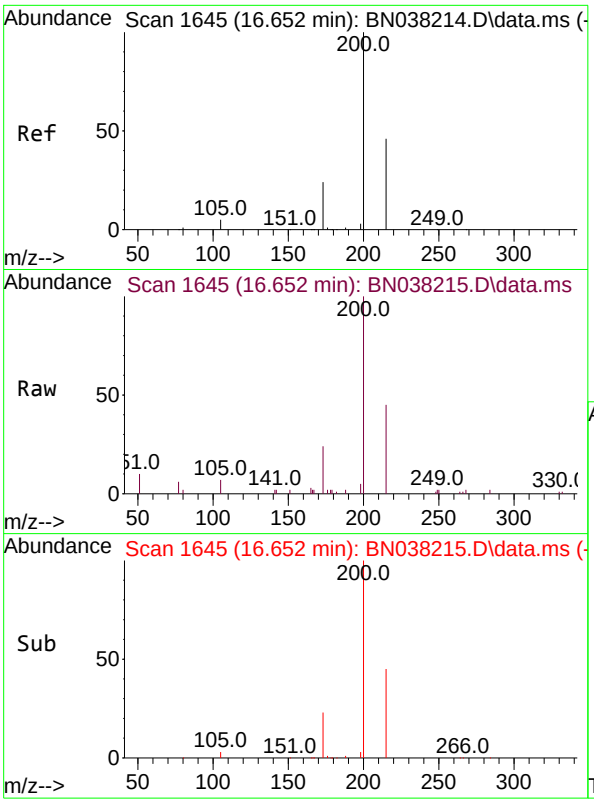


#22
Hexachlorobenzene
Concen: 0.752 ng
RT: 16.491 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion:284 Resp: 16054

Ion	Ratio	Lower	Upper
284	100		
142	38.8	30.5	45.7
249	30.0	23.8	35.8



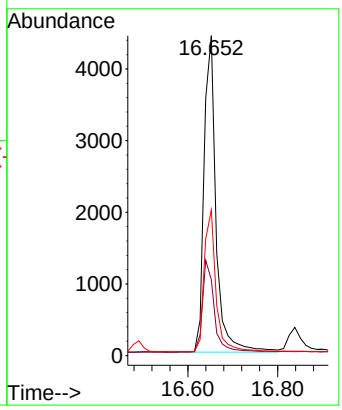


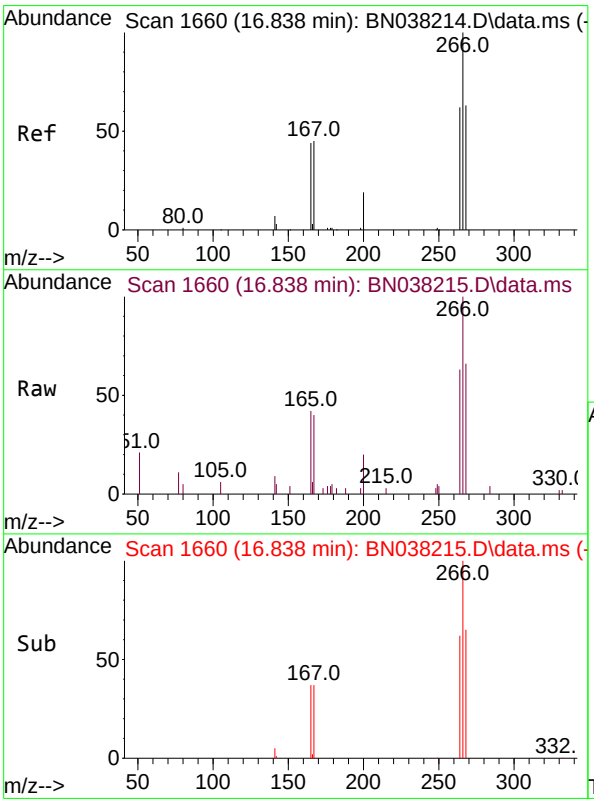
#23
Atrazine
Concen: 0.741 ng
RT: 16.652 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 8217

Ion	Ratio	Lower	Upper
200	100		
173	23.7	21.0	31.6
215	45.5	37.8	56.8

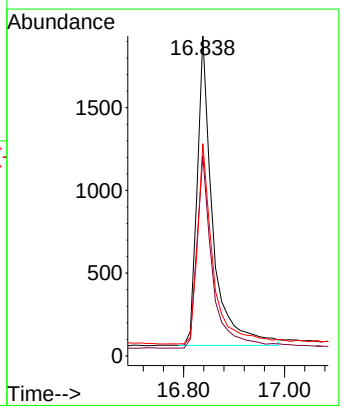


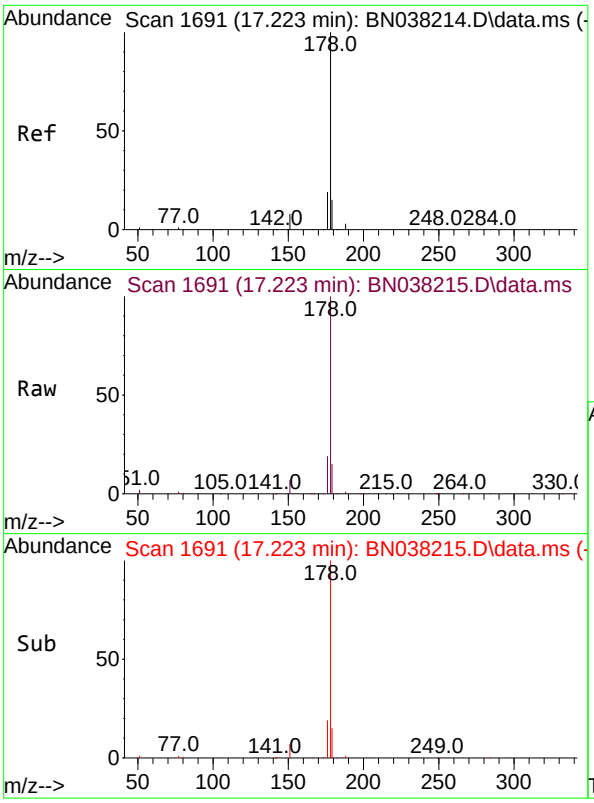


#24
Pentachlorophenol
Concen: 0.681 ng
RT: 16.838 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion:266 Resp: 3987

Ion	Ratio	Lower	Upper
266	100		
264	62.8	48.9	73.3
268	64.4	50.2	75.2



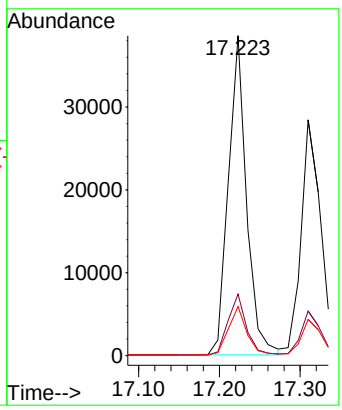


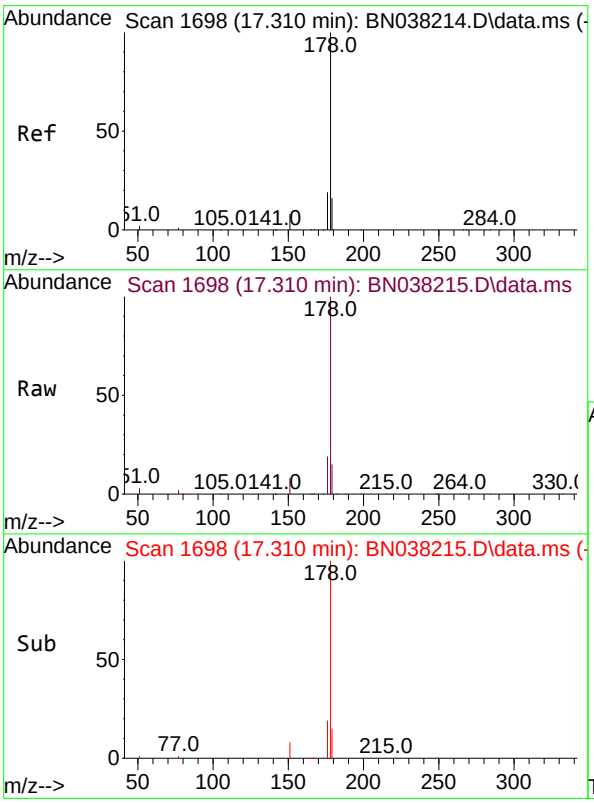
#25
Phenanthrene
Concen: 0.766 ng
RT: 17.223 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 60297

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.2	12.0	18.0

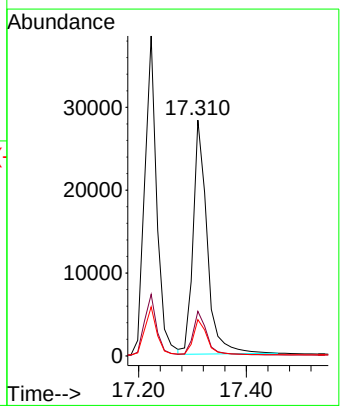


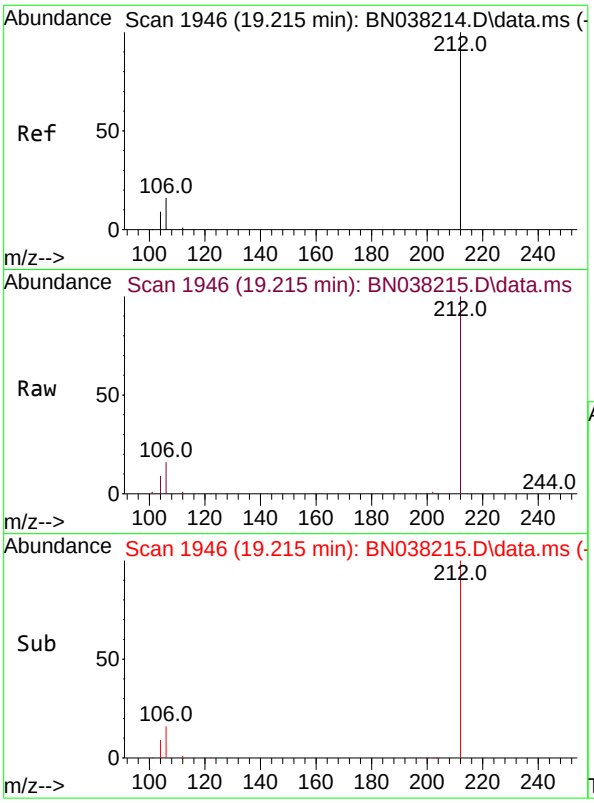


#26
Anthracene
Concen: 0.759 ng
RT: 17.310 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion:178 Resp: 50969

Ion	Ratio	Lower	Upper
178	100		
176	18.6	14.7	22.1
179	15.2	12.3	18.5



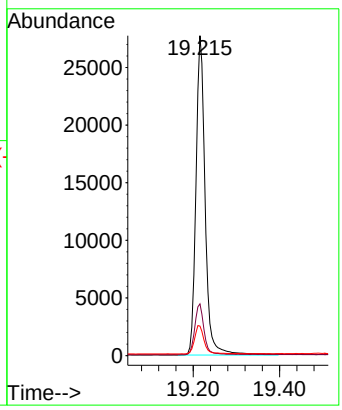


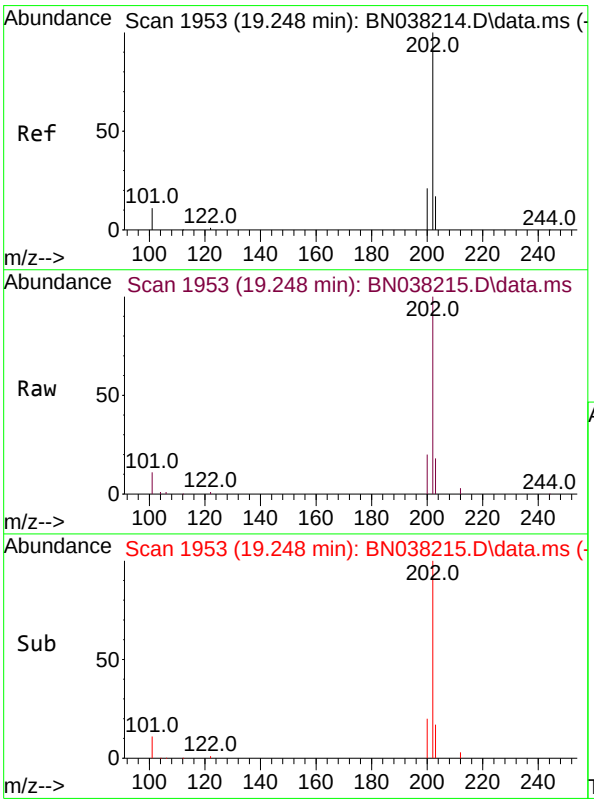
#27
Fluoranthene-d10
Concen: 0.753 ng
RT: 19.215 min Scan# 19
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 40949

Ion	Ratio	Lower	Upper
212	100		
106	16.2	12.7	19.1
104	9.2	7.3	10.9

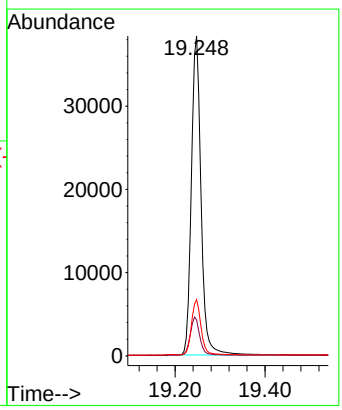


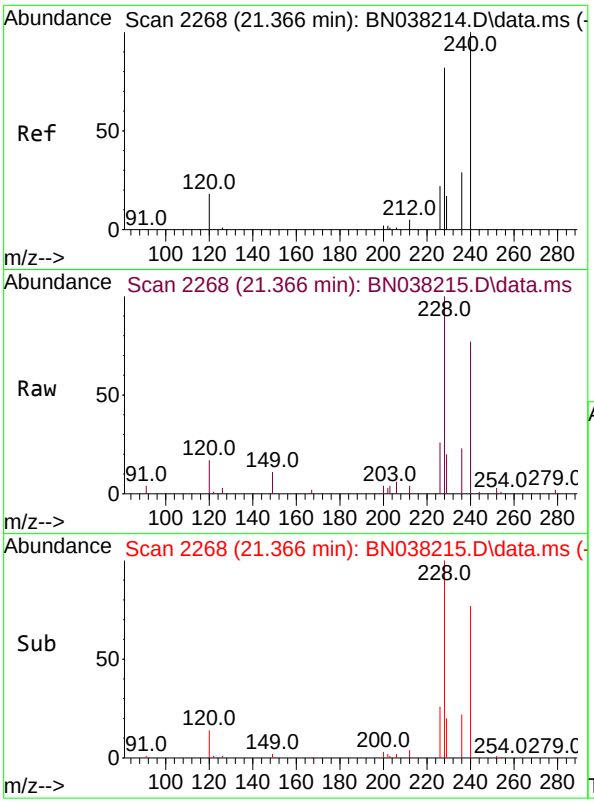


#28
Fluoranthene
Concen: 0.758 ng
RT: 19.248 min Scan# 1953
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion:202 Resp: 57482

Ion	Ratio	Lower	Upper
202	100		
101	12.2	9.8	14.6
203	16.9	13.6	20.4



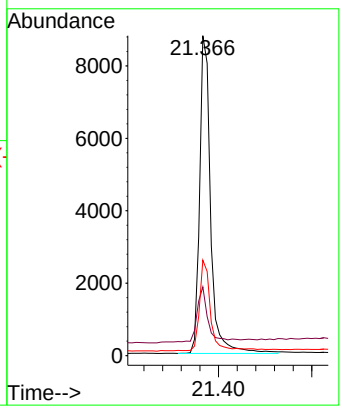


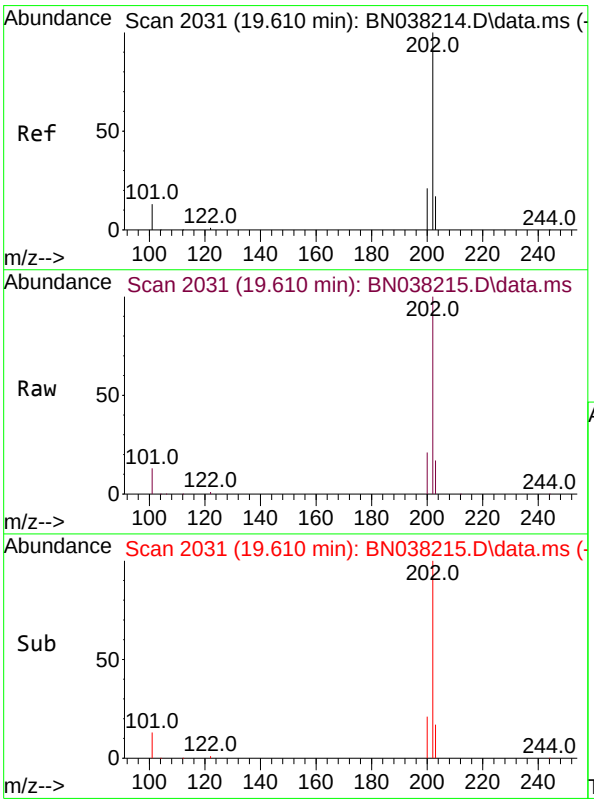
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.366 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 14204

Ion	Ratio	Lower	Upper
240	100		
120	21.5	18.1	27.1
236	29.8	24.2	36.4

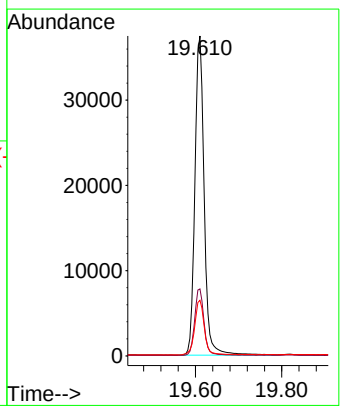


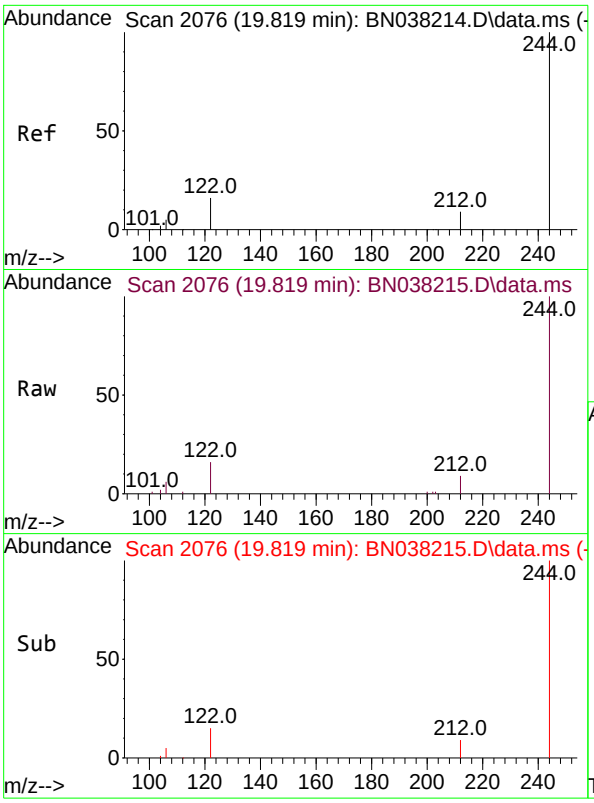


#30
Pyrene
Concen: 0.789 ng
RT: 19.610 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion:202 Resp: 56009

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	17.7	14.4	21.6



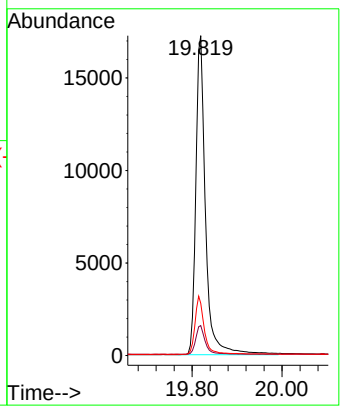


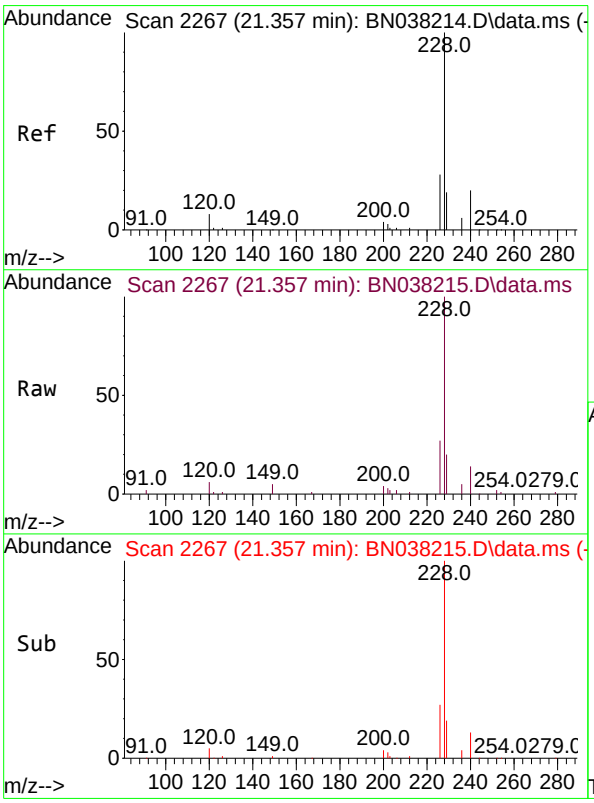
#31
Terphenyl-d14
Concen: 0.785 ng
RT: 19.819 min Scan# 20
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 25737

Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.7	11.5
122	16.3	13.6	20.4

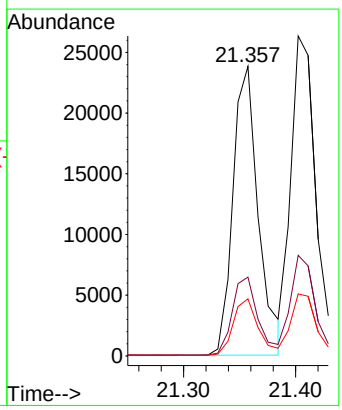


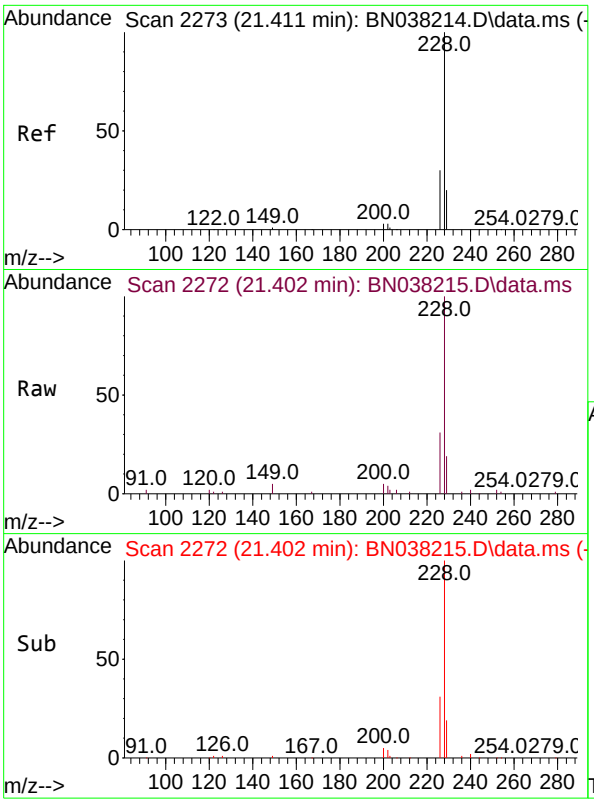


#32
Benzo(a)anthracene
Concen: 0.780 ng
RT: 21.357 min Scan# 2267
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion:228 Resp: 37504

Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.6	33.8
229	19.7	15.8	23.8



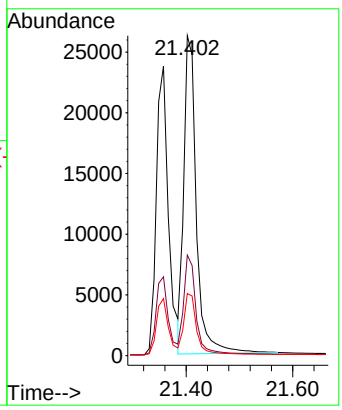


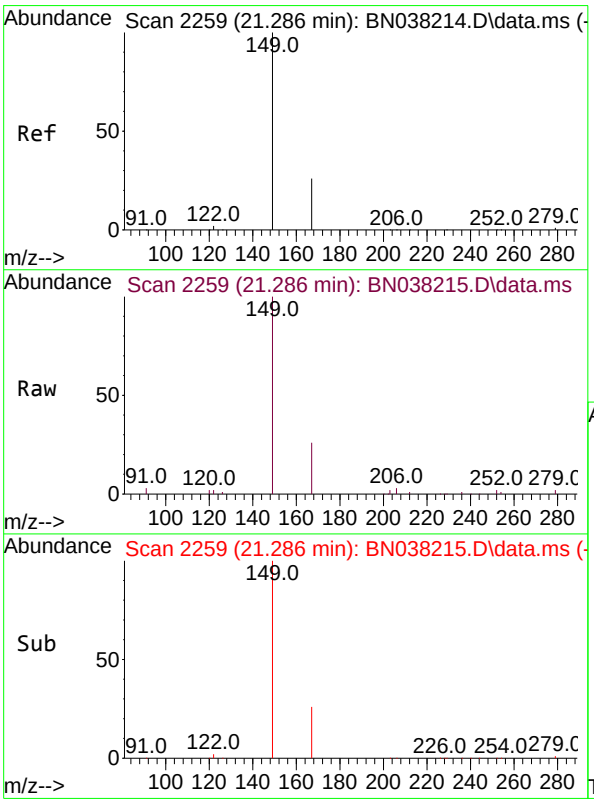
#33
Chrysene
Concen: 0.759 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 43104

Ion	Ratio	Lower	Upper
228	100		
226	31.4	23.8	35.8
229	19.4	16.1	24.1

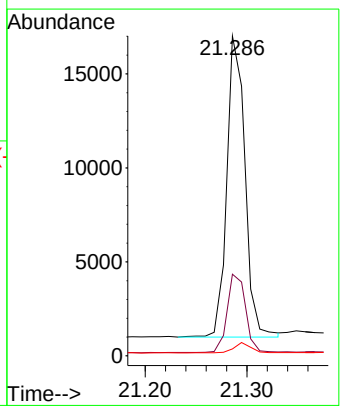


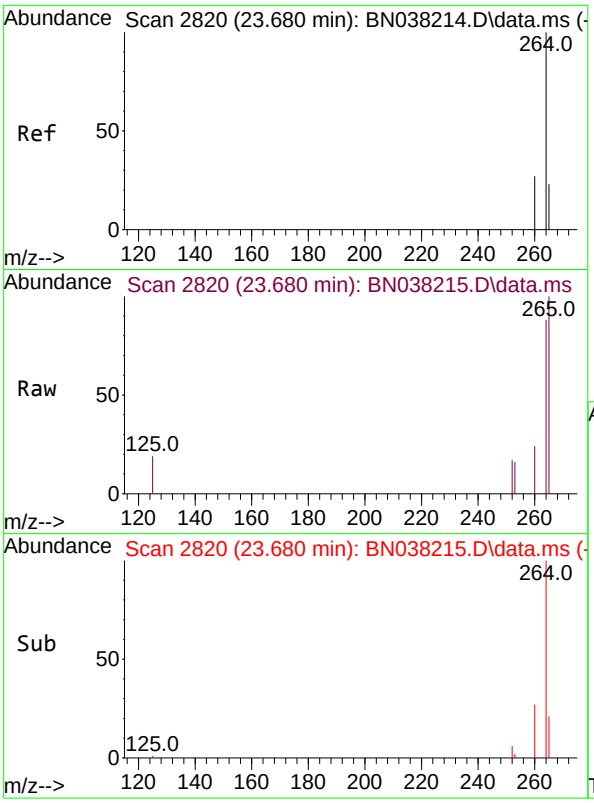


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.755 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion:149 Resp: 19894

Ion	Ratio	Lower	Upper
149	100		
167	26.4	20.7	31.1
279	3.2	2.5	3.7



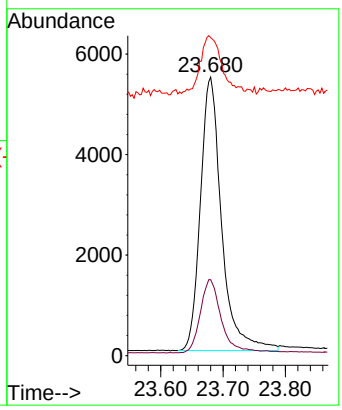


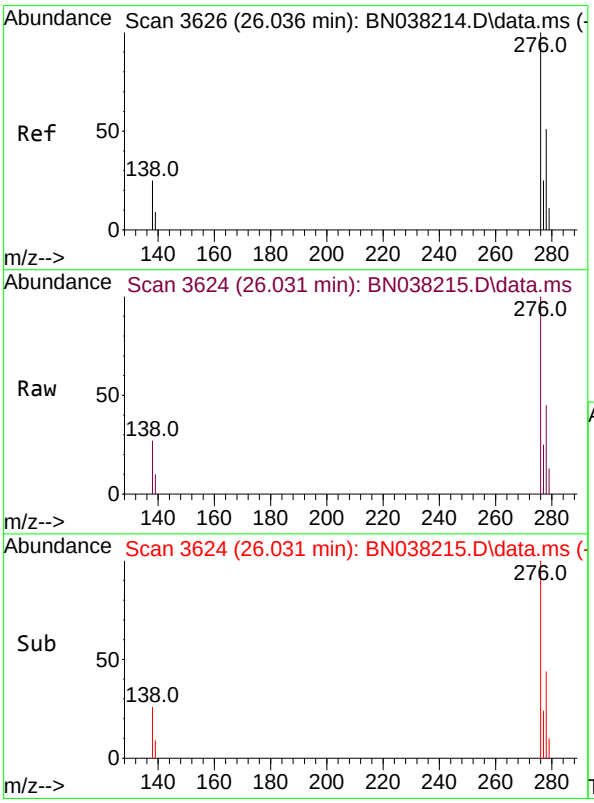
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.680 min Scan# 28
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 12837

Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.7	32.5
265	114.1	98.0	147.0

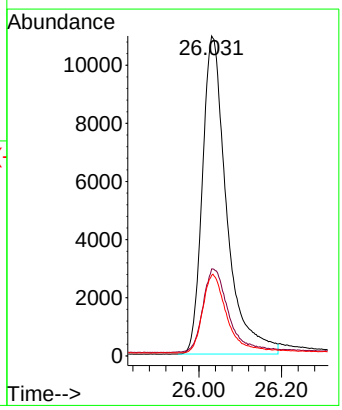


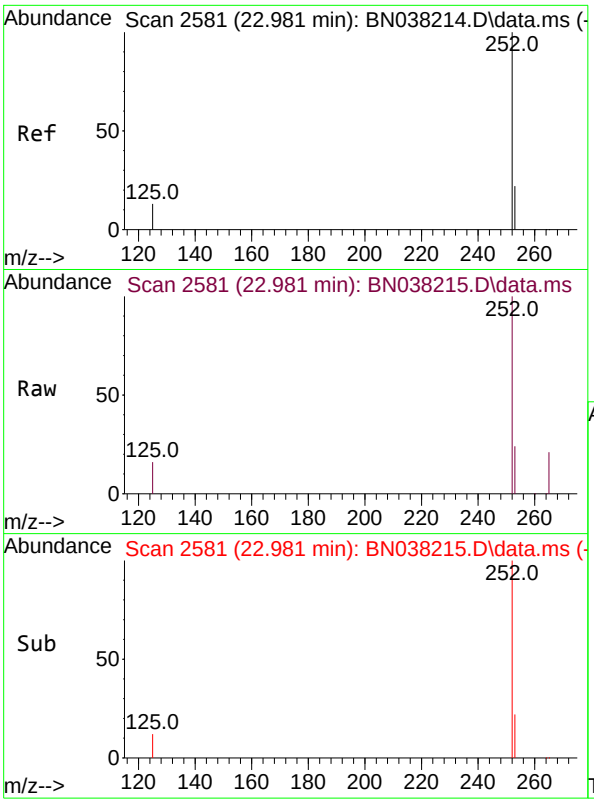


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.750 ng
RT: 26.031 min Scan# 3624
Delta R.T. -0.006 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion:276 Resp: 44577

Ion	Ratio	Lower	Upper
276	100		
138	27.5	21.4	32.2
277	24.6	19.1	28.7



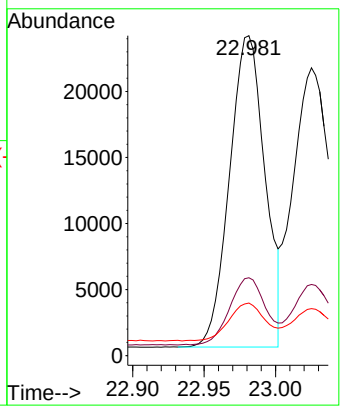


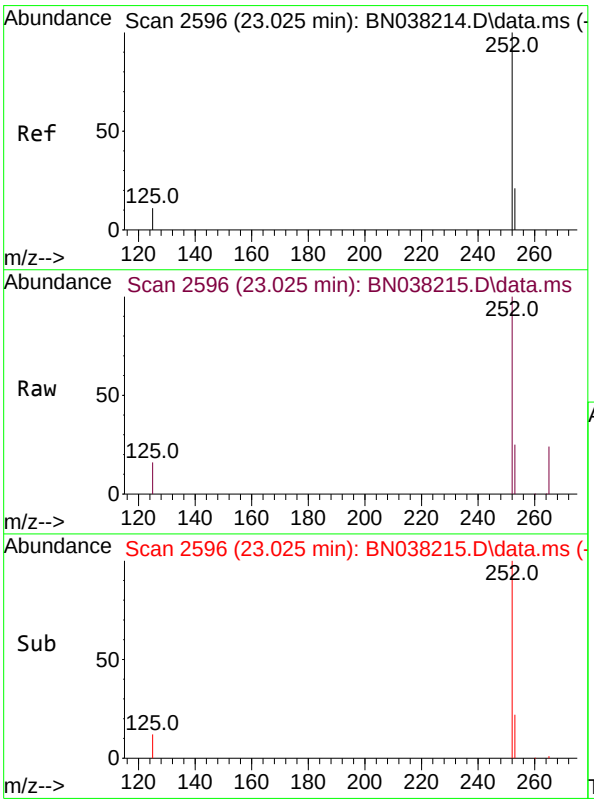
#37
Benzo(b)fluoranthene
Concen: 0.773 ng
RT: 22.981 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 40731

Ion	Ratio	Lower	Upper
252	100		
253	24.3	22.2	33.4
125	16.4	18.0	27.0#

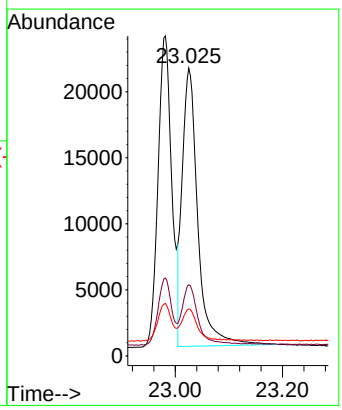


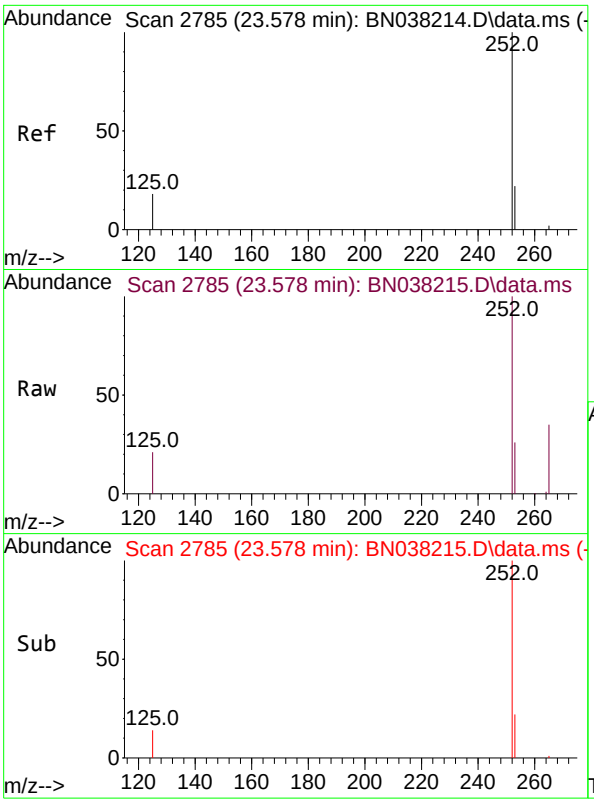


#38
Benzo(k)fluoranthene
Concen: 0.777 ng
RT: 23.025 min Scan# 2596
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion:252 Resp: 42564

Ion	Ratio	Lower	Upper
252	100		
253	24.7	22.4	33.6
125	16.3	17.5	26.3#



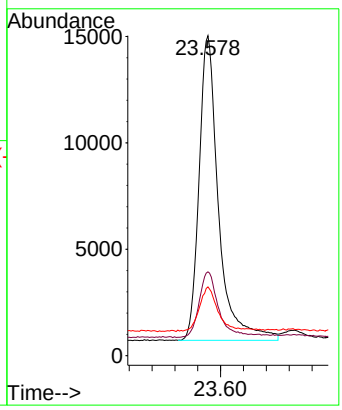


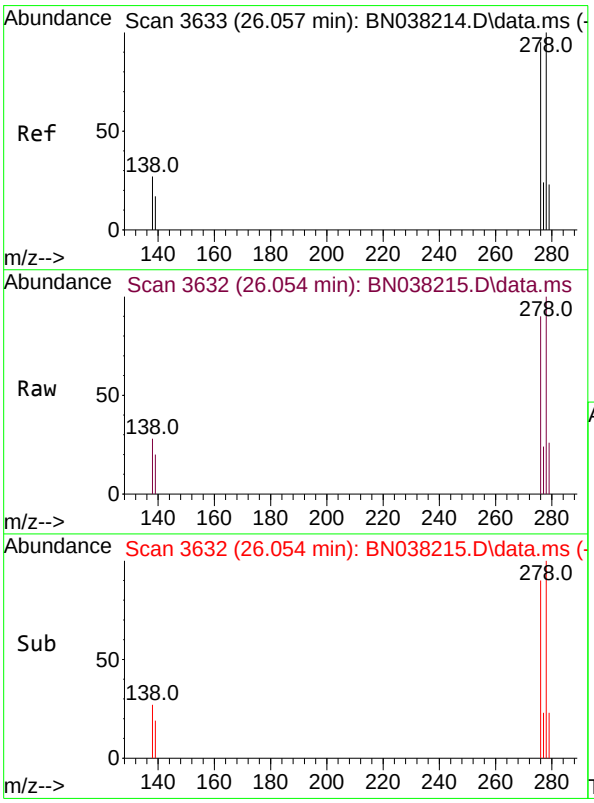
#39
Benzo(a)pyrene
Concen: 0.765 ng
RT: 23.578 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 33796

Ion	Ratio	Lower	Upper
252	100		
253	26.2	25.3	37.9
125	21.5	25.2	37.8#

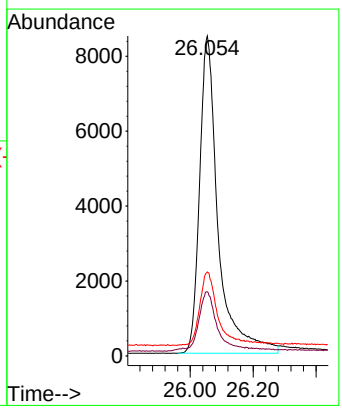


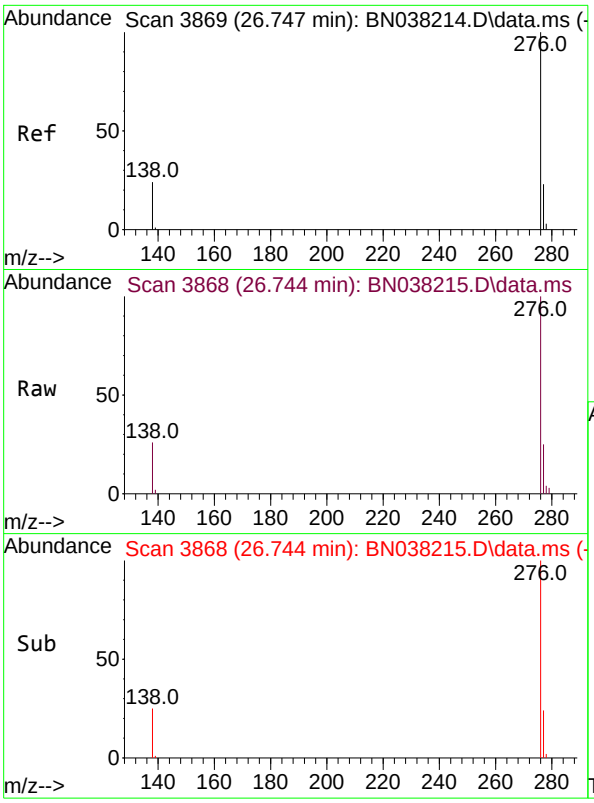


#40
Dibenzo(a,h)anthracene
Concen: 0.770 ng
RT: 26.054 min Scan# 3632
Delta R.T. -0.003 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Tgt Ion:278 Resp: 34639

Ion	Ratio	Lower	Upper
278	100		
139	20.0	17.6	26.4
279	26.2	24.2	36.4



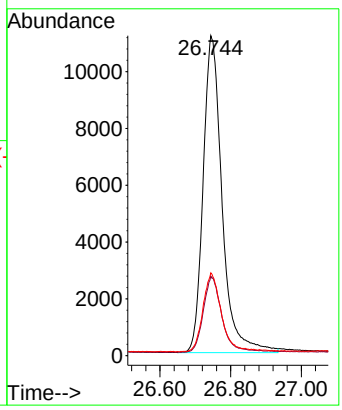


#41
Benzo(g,h,i)perylene
Concen: 0.777 ng
RT: 26.744 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN038215.D
Acq: 26 Nov 2025 22:25

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 41508

Ion	Ratio	Lower	Upper
276	100		
277	24.8	20.2	30.2
138	25.9	20.8	31.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038216.D
Acq On : 26 Nov 2025 23:01
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Nov 28 20:55:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.768	152	8591	0.400	ng		0.00
7) Naphthalene-d8	10.573	136	26479	0.400	ng		0.00
13) Acenaphthene-d10	14.430	164	14911	0.400	ng		0.00
19) Phenanthrene-d10	17.173	188	24353	0.400	ng		#-0.01
29) Chrysene-d12	21.366	240	14651	0.400	ng		# 0.00
35) Perylene-d12	23.674	264	13162	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.341	112	31794	1.583	ng		0.00
5) Phenol-d6	6.930	99	40785	1.626	ng		0.00
8) Nitrobenzene-d5	8.918	82	34007	1.606	ng		0.00
11) 2-Methylnaphthalene-d10	12.167	152	61892	1.647	ng		0.00
14) 2,4,6-Tribromophenol	15.920	330	8291	1.767	ng		-0.01
15) 2-Fluorobiphenyl	13.051	172	94112	1.634	ng		0.00
27) Fluoranthene-d10	19.215	212	84152	1.593	ng		0.00
31) Terphenyl-d14	19.815	244	54297	1.605	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.247	88	14538	1.606	ng		98
3) n-Nitrosodimethylamine	3.557	42	18433	1.652	ng	#	98
6) bis(2-Chloroethyl)ether	7.190	93	39573	1.648	ng		98
9) Naphthalene	10.616	128	118421	1.611	ng		99
10) Hexachlorobutadiene	10.915	225	19920	1.593	ng	#	99
12) 2-Methylnaphthalene	12.238	142	79894	1.651	ng		99
16) Acenaphthylene	14.142	152	109170	1.637	ng		100
17) Acenaphthene	14.494	154	75326	1.621	ng		99
18) Fluorene	15.478	166	100208	1.665	ng		99
20) 4,6-Dinitro-2-methylph...	15.560	198	4296	1.621	ng	#	7
21) 4-Bromophenyl-phenylether	16.379	248	27977	1.658	ng	#	92
22) Hexachlorobenzene	16.491	284	32866	1.584	ng		99
23) Atrazine	16.640	200	17617	1.635	ng	#	91
24) Pentachlorophenol	16.838	266	9380	1.650	ng		98
25) Phenanthrene	17.223	178	123735	1.619	ng		100
26) Anthracene	17.310	178	107108	1.642	ng		100
28) Fluoranthene	19.243	202	119828	1.626	ng		100
30) Pyrene	19.606	202	115630	1.580	ng		100
32) Benzo(a)anthracene	21.349	228	80458	1.622	ng		99
33) Chrysene	21.402	228	93587	1.598	ng		98
34) Bis(2-ethylhexyl)phtha...	21.286	149	39988	1.472	ng		99
36) Indeno(1,2,3-cd)pyrene	26.028	276	103317	1.696	ng		99
37) Benzo(b)fluoranthene	22.975	252	88199	1.633	ng	#	87
38) Benzo(k)fluoranthene	23.022	252	92066	1.639	ng	#	87
39) Benzo(a)pyrene	23.572	252	73851	1.631	ng	#	80
40) Dibenzo(a,h)anthracene	26.042	278	79584	1.726	ng		92
41) Benzo(g,h,i)perylene	26.741	276	90531	1.652	ng		97

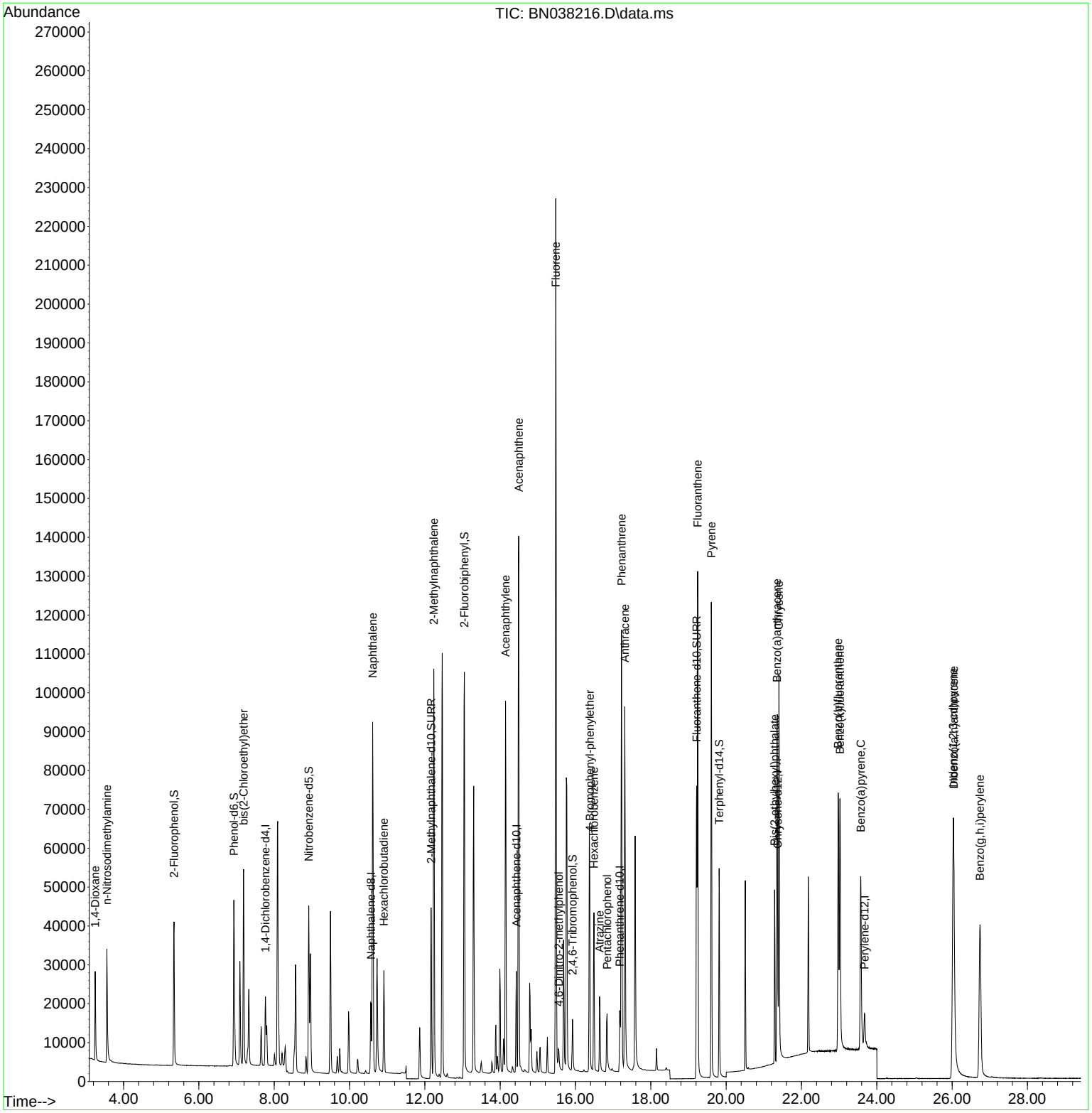
(#) = qualifier out of range (m) = manual integration (+) = signals summed

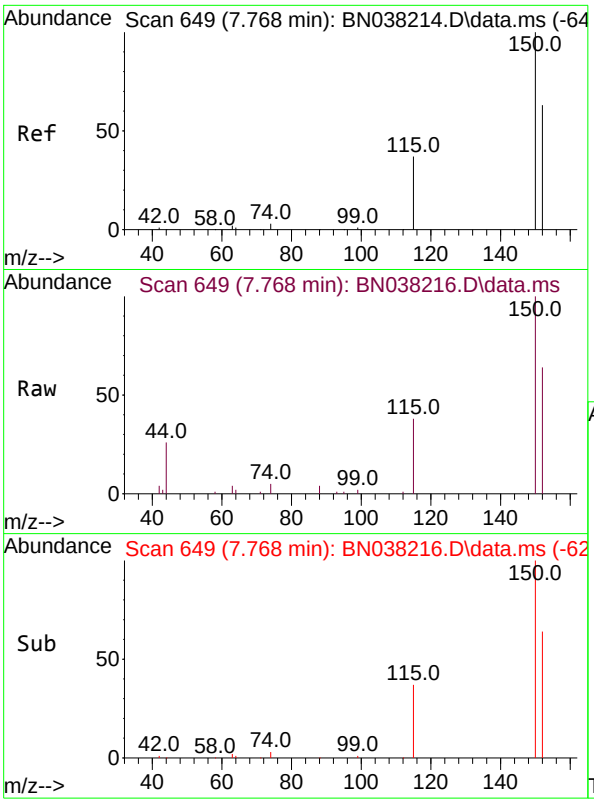
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038216.D
Acq On : 26 Nov 2025 23:01
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Nov 28 20:55:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 2025
Response via : Initial Calibration



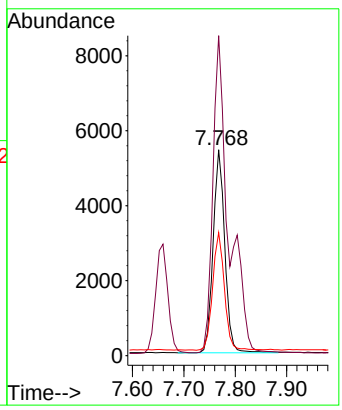


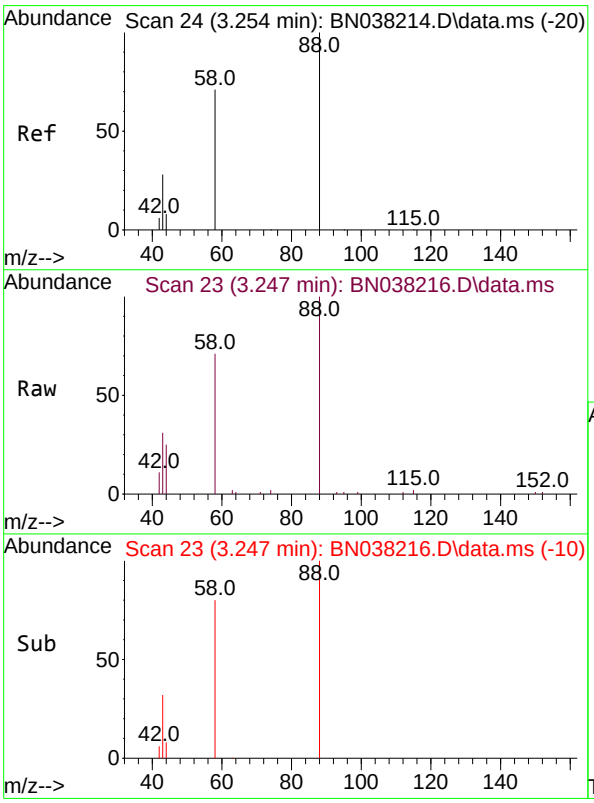
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.768 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 8591

Ion	Ratio	Lower	Upper
152	100		
150	155.4	125.3	187.9
115	59.7	49.0	73.4

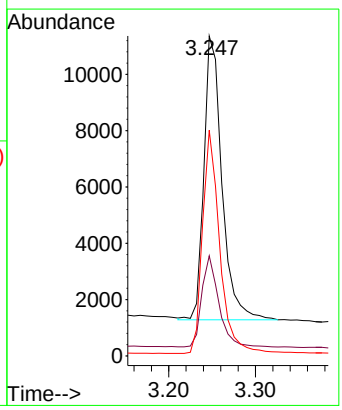


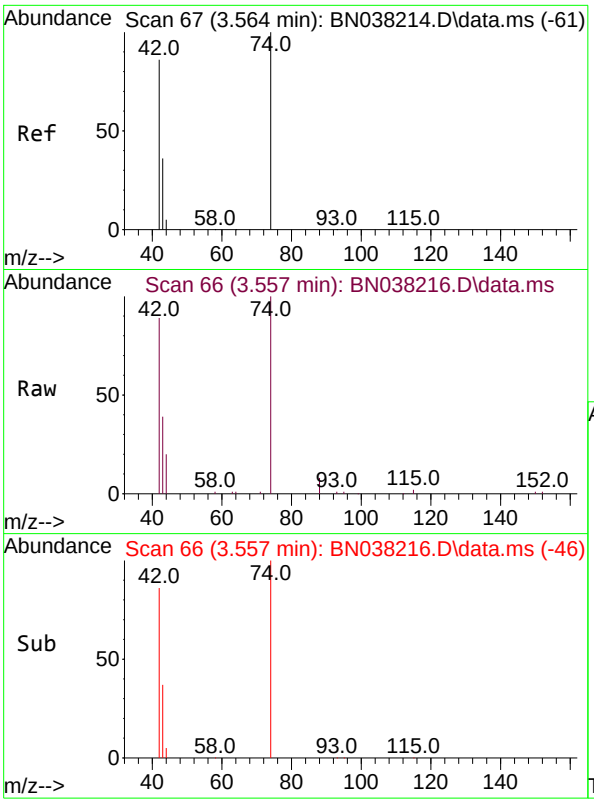


#2
1,4-Dioxane
Concen: 1.606 ng
RT: 3.247 min Scan# 23
Delta R.T. -0.007 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion: 88 Resp: 14538

Ion	Ratio	Lower	Upper
88	100		
43	30.3	24.8	37.2
58	74.7	61.1	91.7



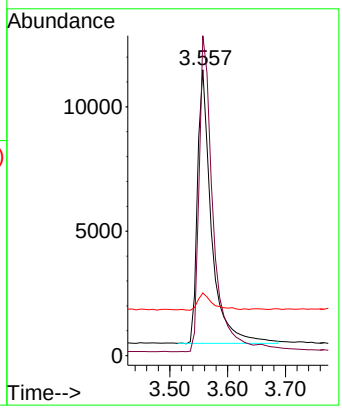


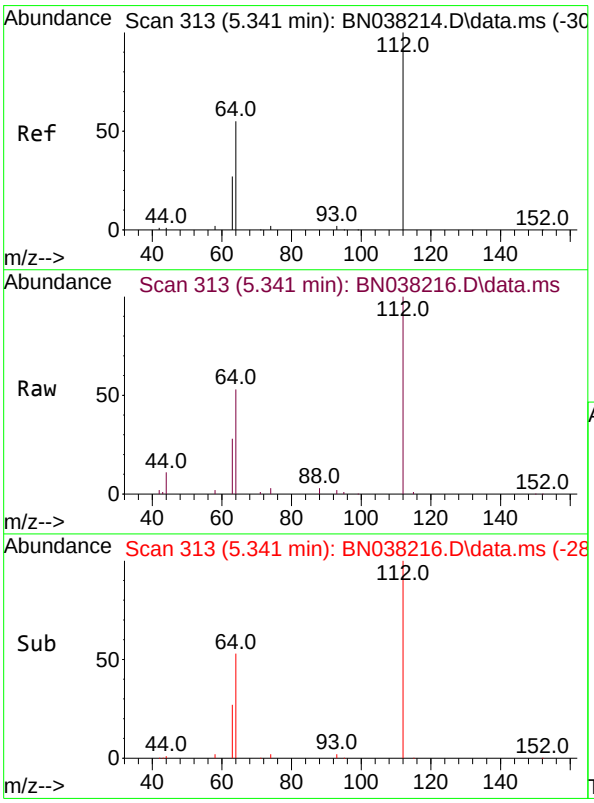
#3
n-Nitrosodimethylamine
Concen: 1.652 ng
RT: 3.557 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 18433

Ion	Ratio	Lower	Upper
42	100		
74	118.4	96.2	144.2
44	6.4	8.0	12.0#

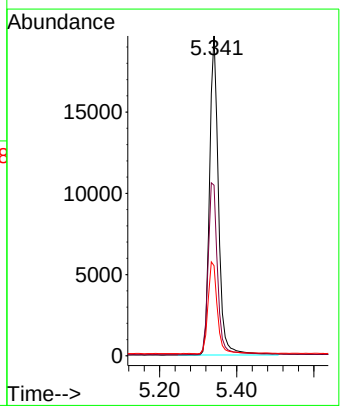


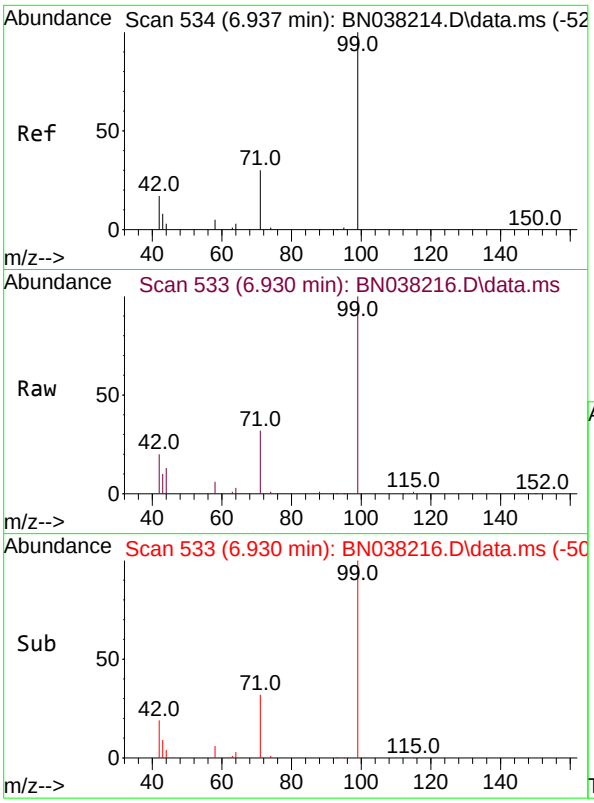


#4
2-Fluorophenol
Concen: 1.583 ng
RT: 5.341 min Scan# 313
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:112 Resp: 31794

Ion	Ratio	Lower	Upper
112	100		
64	56.7	45.0	67.4
63	30.0	23.2	34.8



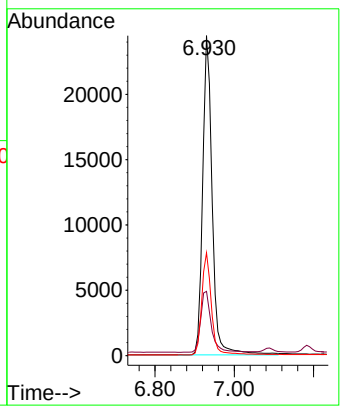


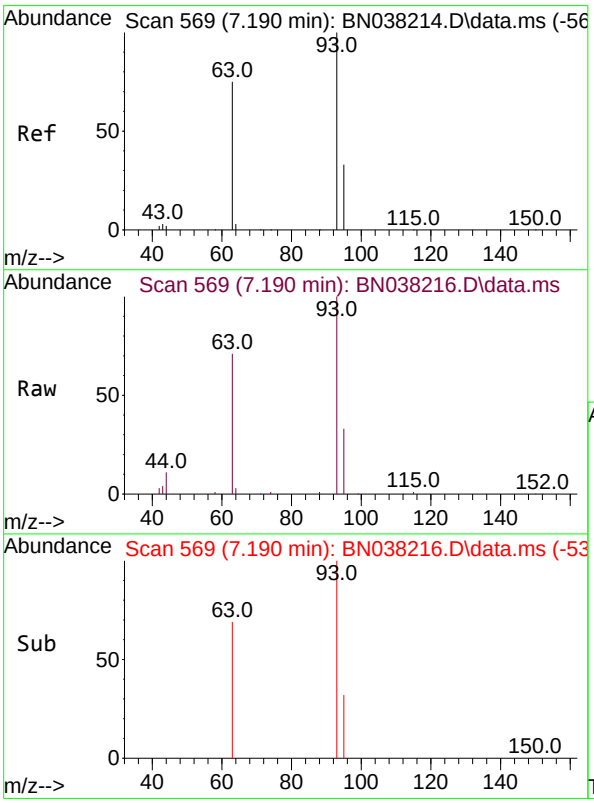
#5
Phenol-d6
Concen: 1.626 ng
RT: 6.930 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 40785

Ion	Ratio	Lower	Upper
99	100		
42	21.1	17.0	25.6
71	32.3	25.4	38.2

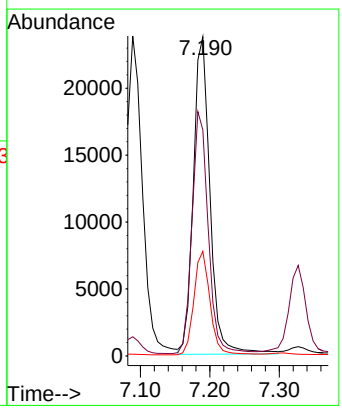


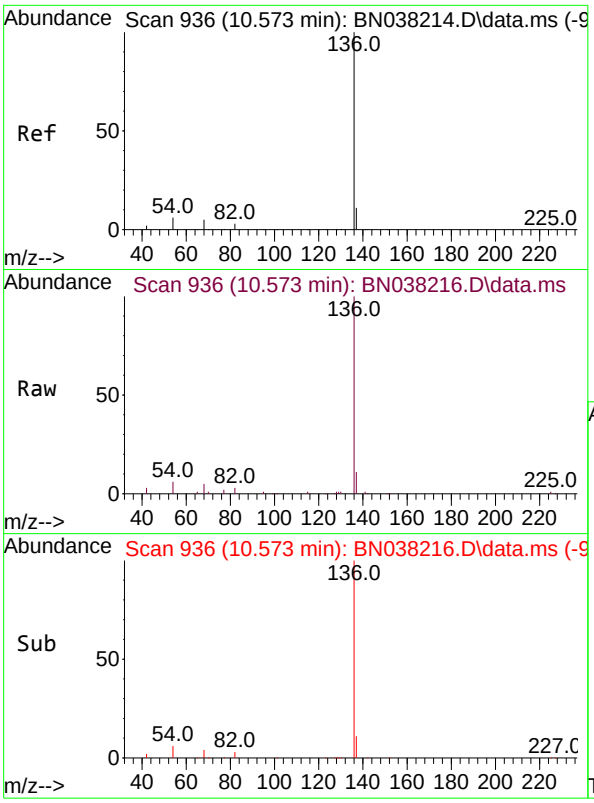


#6
bis(2-Chloroethyl)ether
Concen: 1.648 ng
RT: 7.190 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion: 93 Resp: 39573

Ion	Ratio	Lower	Upper
93	100		
63	74.3	58.1	87.1
95	31.7	25.1	37.7



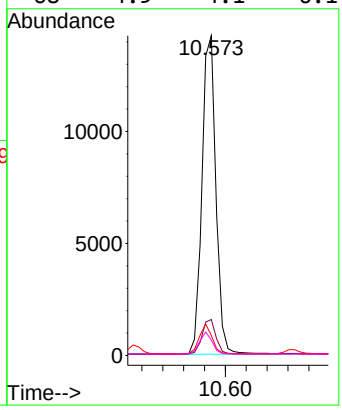


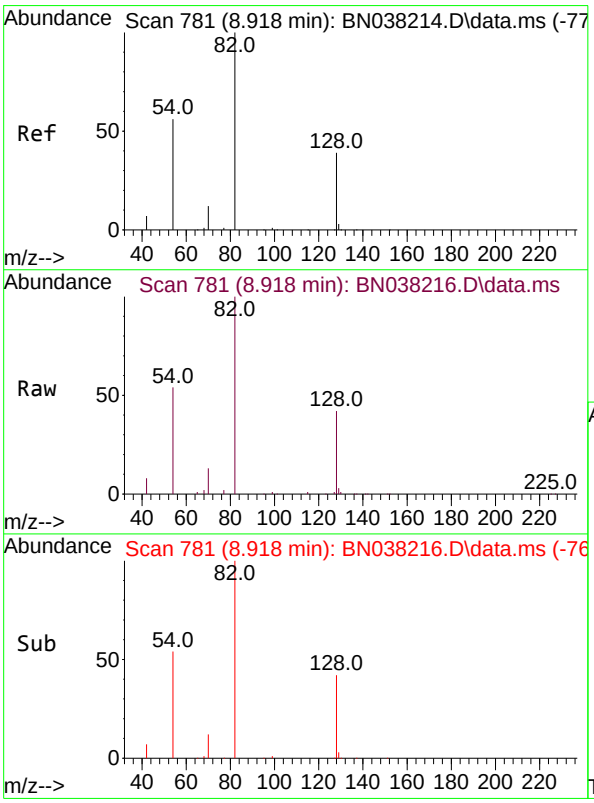
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.573 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 26479

Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.9	13.3
54	6.3	5.4	8.0
68	4.9	4.1	6.1

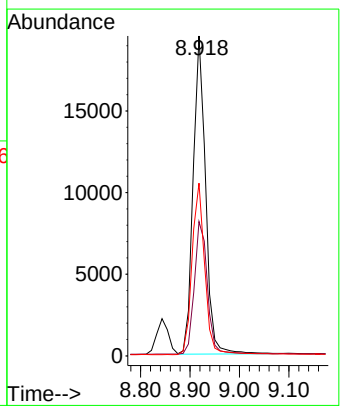


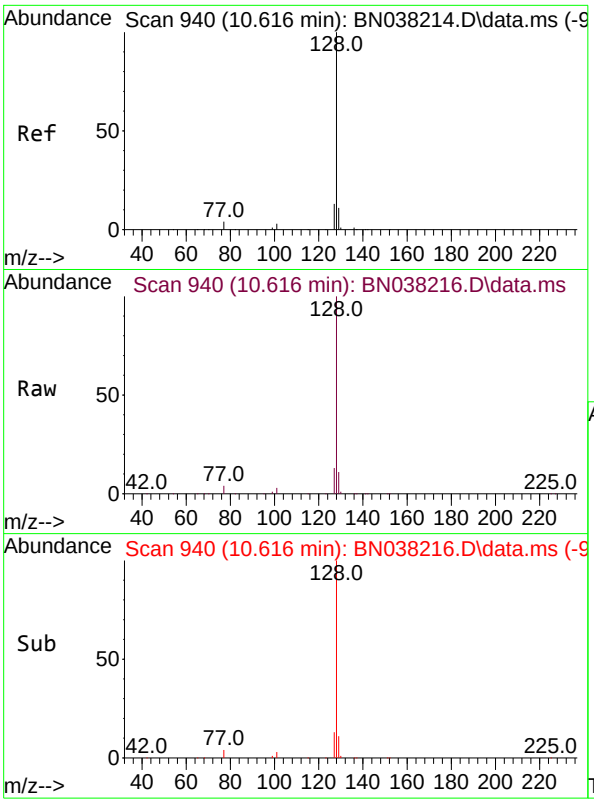


#8
Nitrobenzene-d5
Concen: 1.606 ng
RT: 8.918 min Scan# 781
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion: 82 Resp: 34007

Ion	Ratio	Lower	Upper
82	100		
128	42.0	32.6	48.8
54	54.0	45.4	68.0



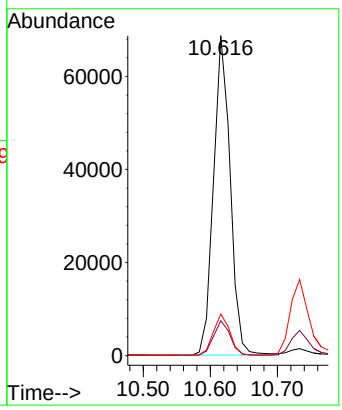


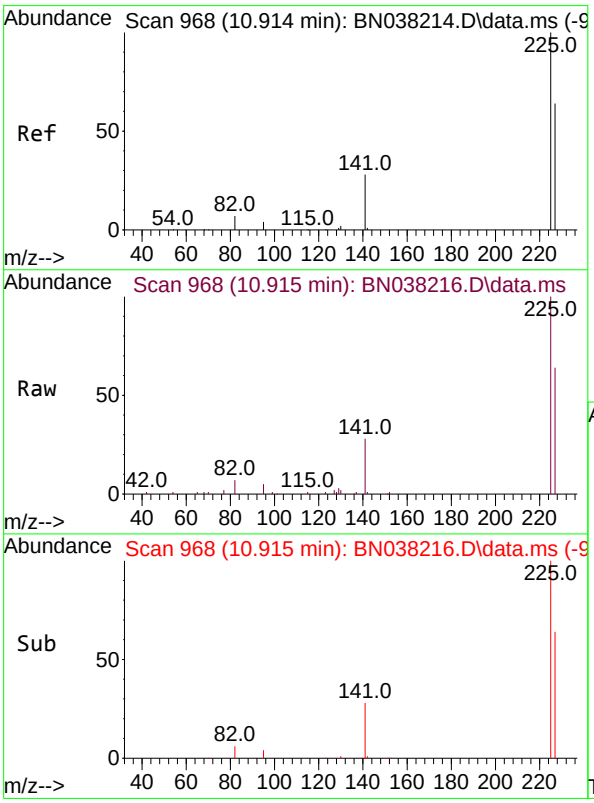
#9
Naphthalene
Concen: 1.611 ng
RT: 10.616 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 118421

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.1	13.7
127	13.0	10.6	16.0

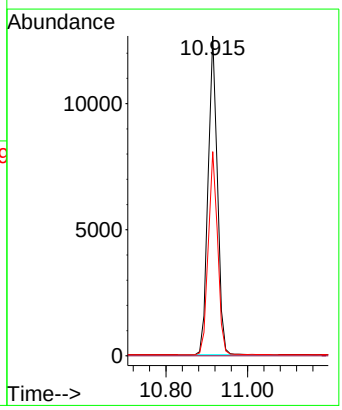


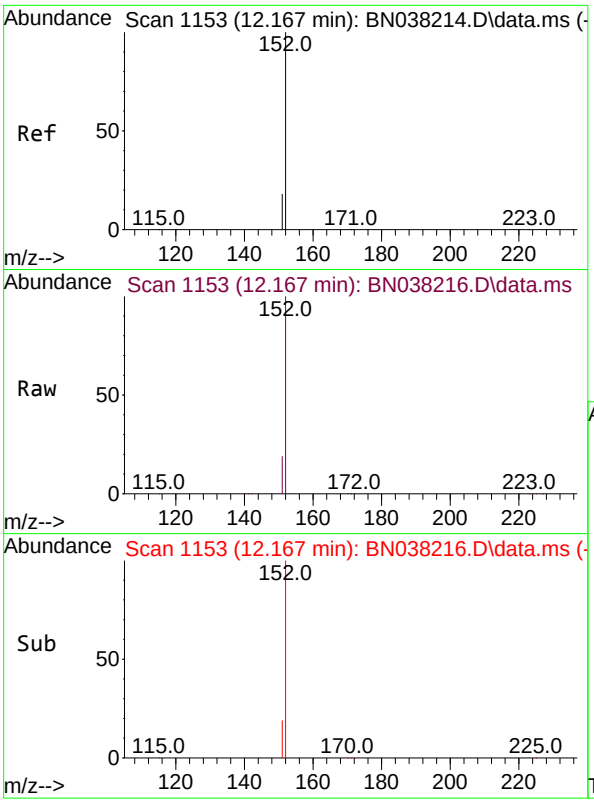


#10
Hexachlorobutadiene
Concen: 1.593 ng
RT: 10.915 min Scan# 968
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:225 Resp: 19920

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	50.5	75.7



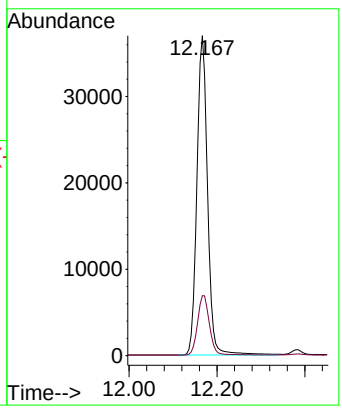


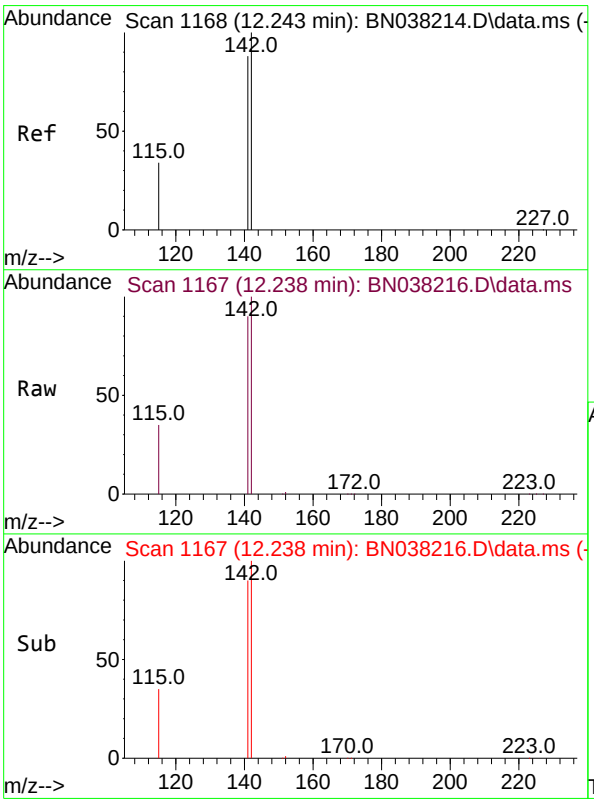
#11
2-Methylnaphthalene-d10
Concen: 1.647 ng
RT: 12.167 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 61892

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.7	25.1

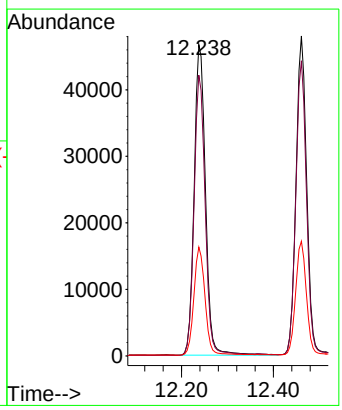


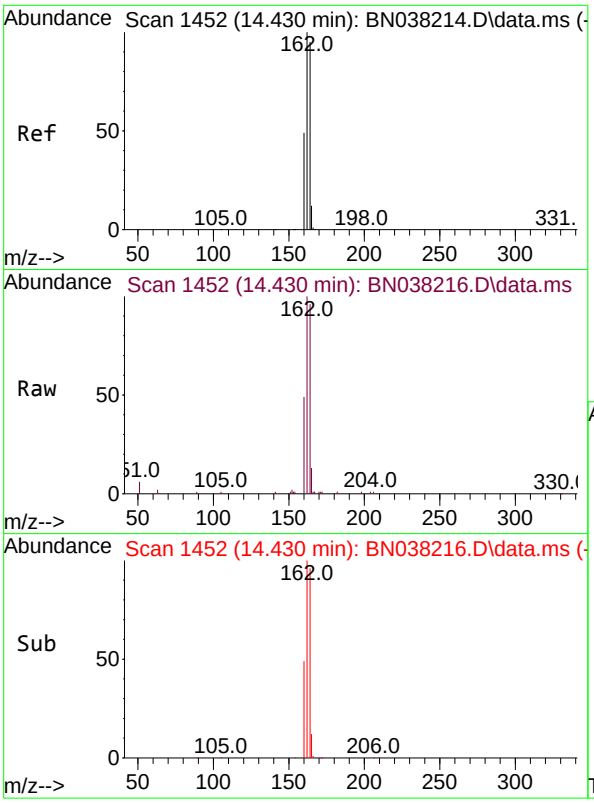


#12
2-Methylnaphthalene
Concen: 1.651 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:142 Resp: 79894

Ion	Ratio	Lower	Upper
142	100		
141	90.2	70.9	106.3
115	35.0	27.7	41.5



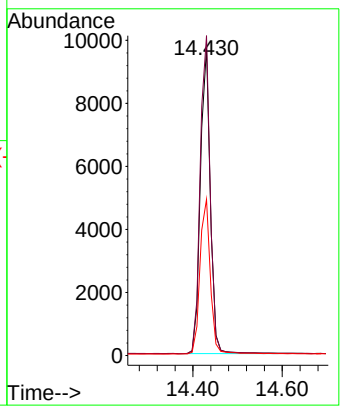


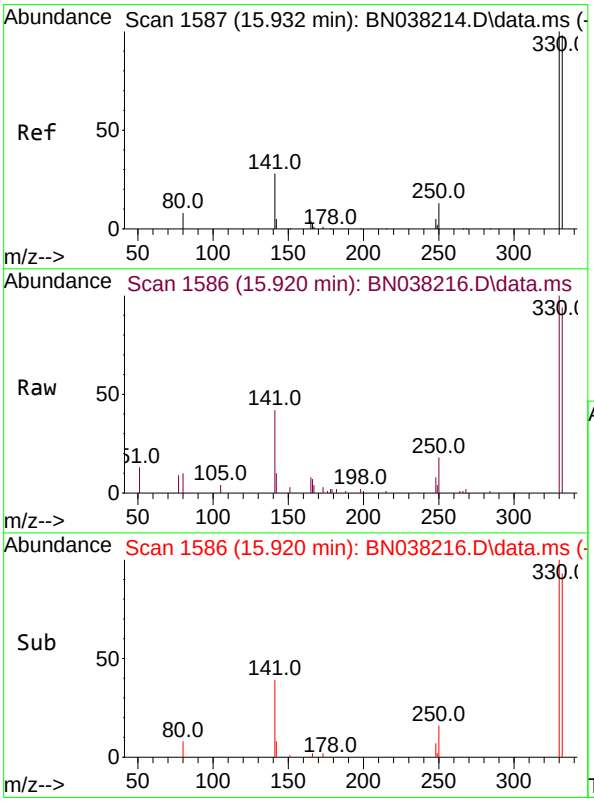
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 14911

Ion	Ratio	Lower	Upper
164	100		
162	104.0	83.8	125.8
160	50.8	41.6	62.4

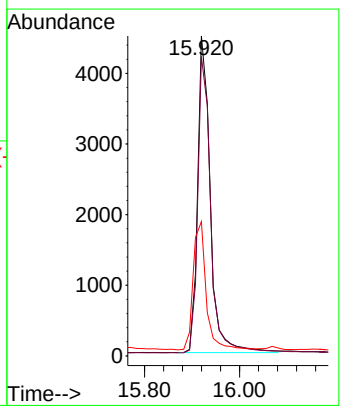


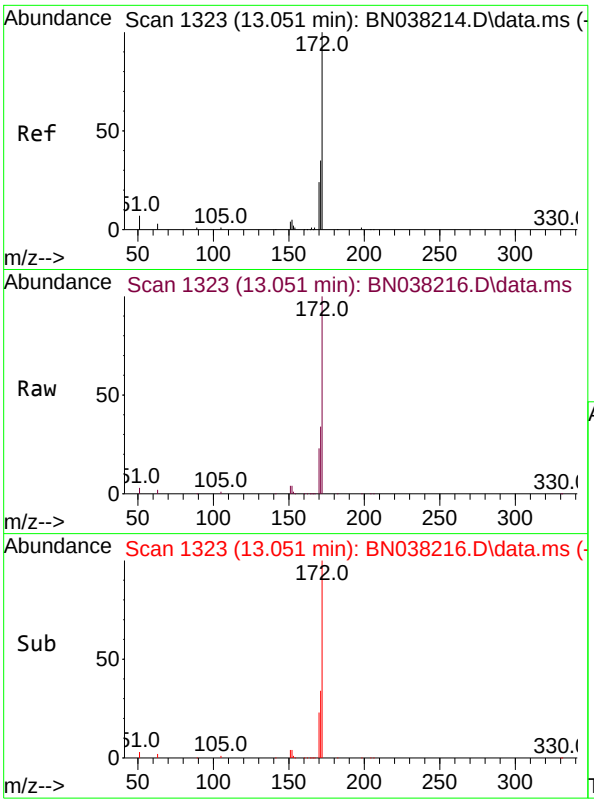


#14
2,4,6-Tribromophenol
Concen: 1.767 ng
RT: 15.920 min Scan# 1586
Delta R.T. -0.012 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:330 Resp: 8291

Ion	Ratio	Lower	Upper
330	100		
332	95.1	77.8	116.6
141	41.6	33.0	49.4



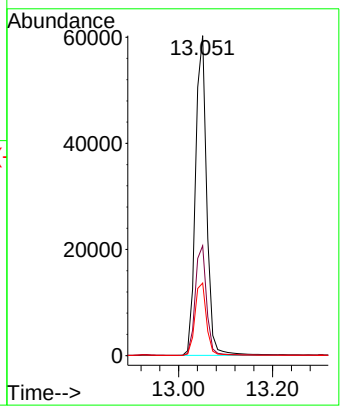


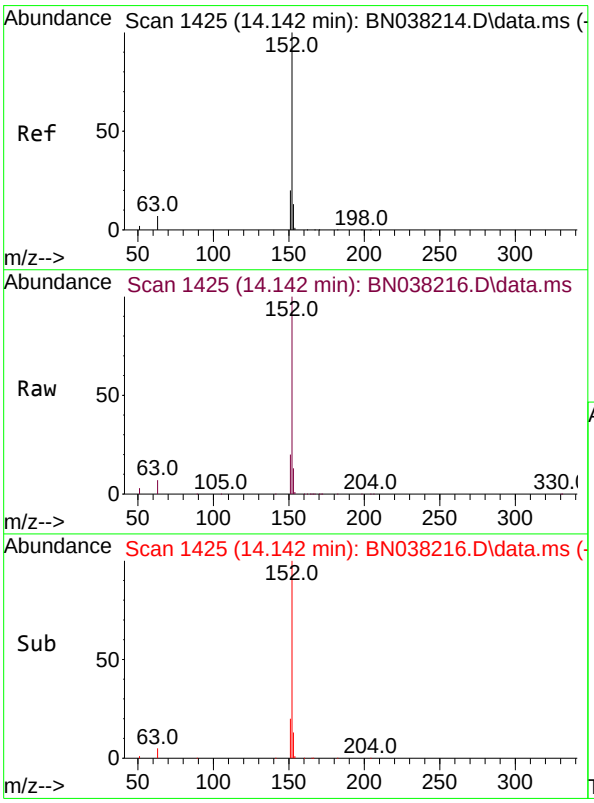
#15
2-Fluorobiphenyl
Concen: 1.634 ng
RT: 13.051 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 94112

Ion	Ratio	Lower	Upper
172	100		
171	34.3	28.1	42.1
170	22.7	19.1	28.7

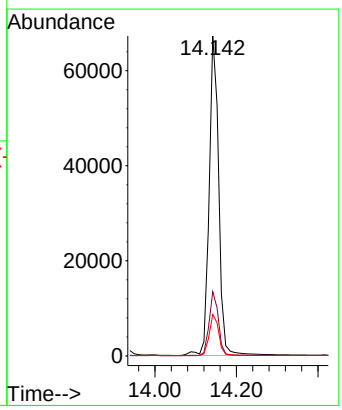


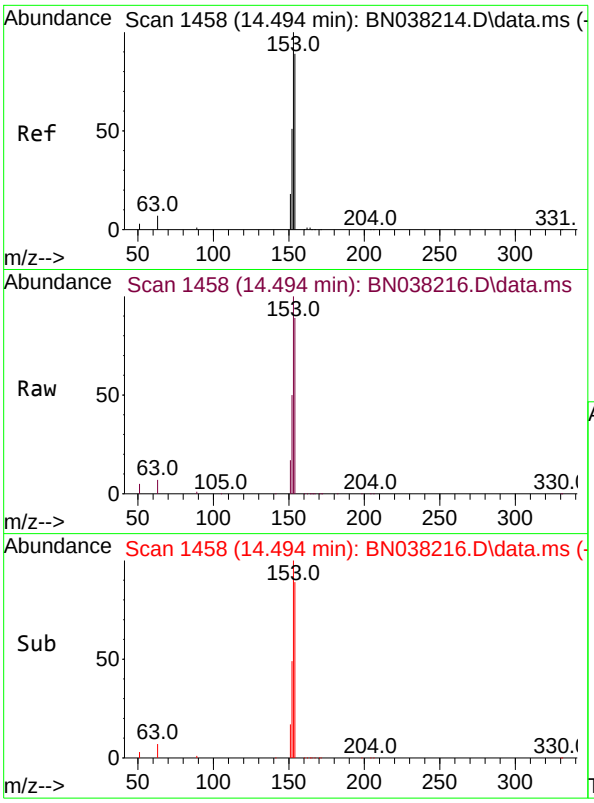


#16
Acenaphthylene
Concen: 1.637 ng
RT: 14.142 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:152 Resp: 109170

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.6	23.4
153	12.9	10.6	15.8



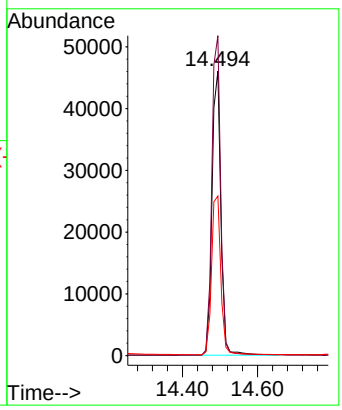


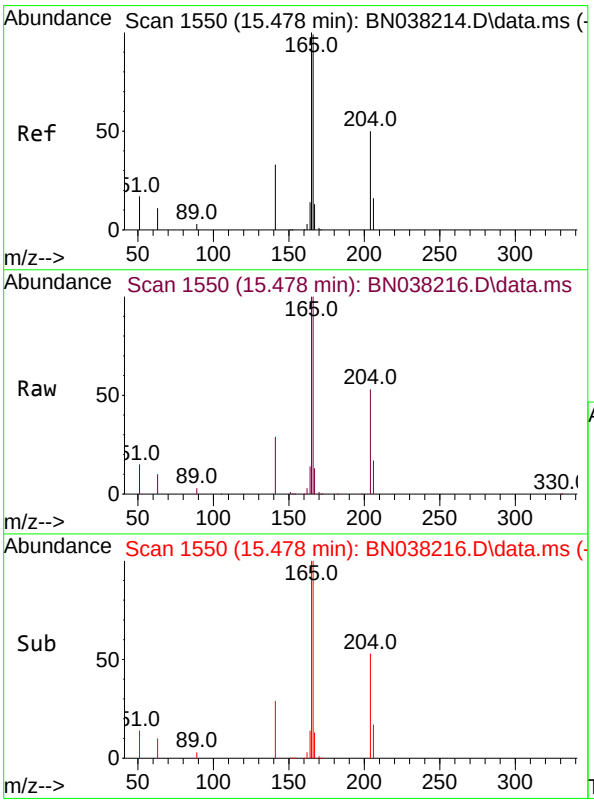
#17
Acenaphthene
Concen: 1.621 ng
RT: 14.494 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 75326

Ion	Ratio	Lower	Upper
154	100		
153	113.1	91.1	136.7
152	58.4	48.2	72.2

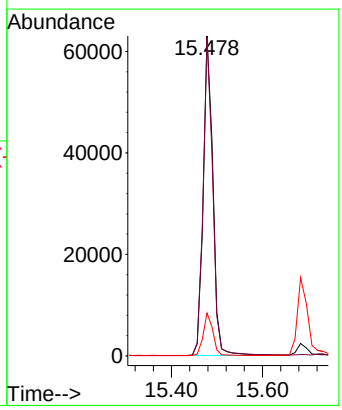


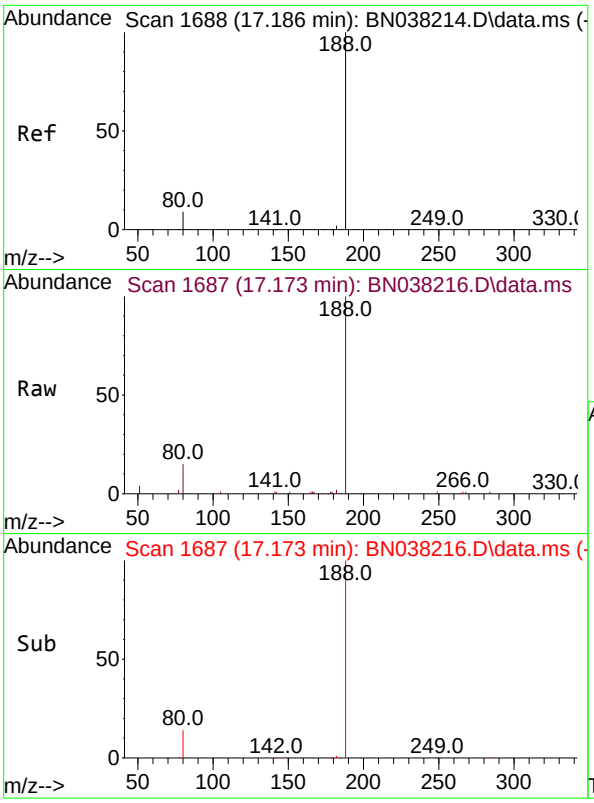


#18
Fluorene
Concen: 1.665 ng
RT: 15.478 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:166 Resp: 100208

Ion	Ratio	Lower	Upper
166	100		
165	99.0	78.7	118.1
167	13.2	10.9	16.3



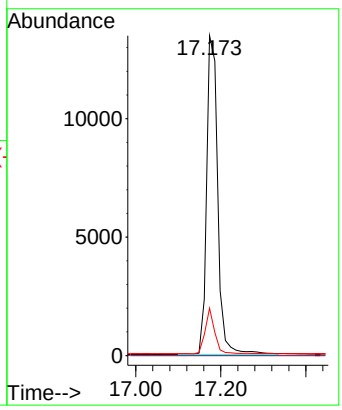


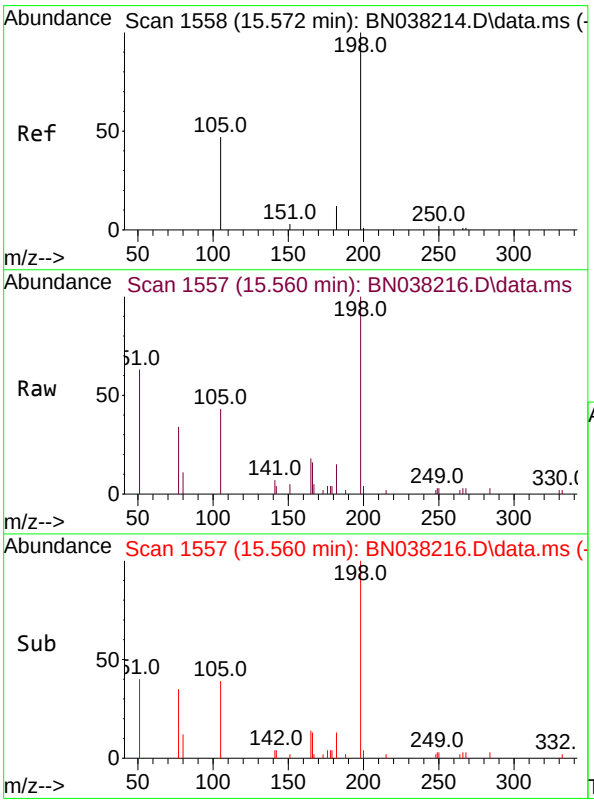
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.173 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 24353

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.8	7.7	11.5#

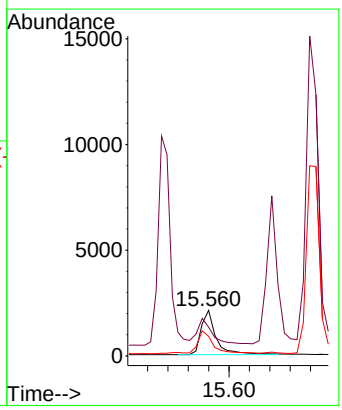


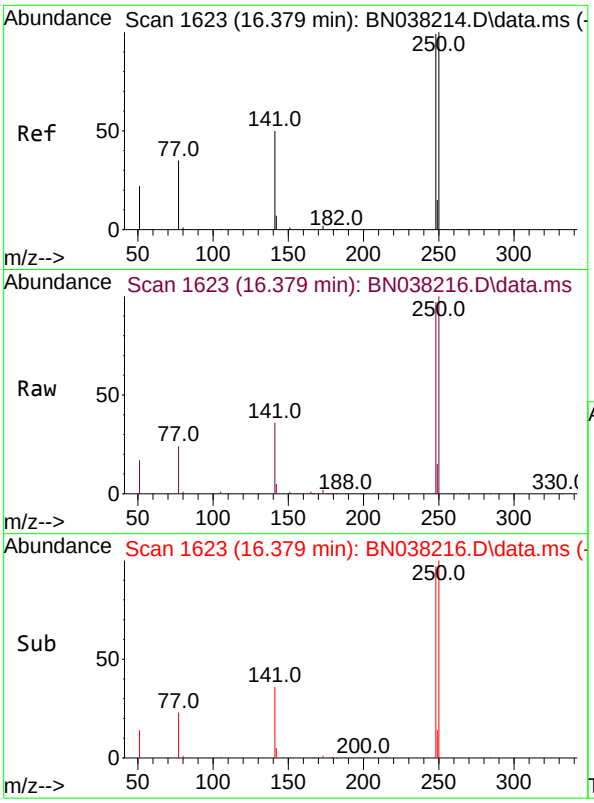


#20
4,6-Dinitro-2-methylphenol
Concen: 1.621 ng
RT: 15.560 min Scan# 1557
Delta R.T. -0.012 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:198 Resp: 4296

Ion	Ratio	Lower	Upper
198	100		
51	63.2	205.1	307.7#
105	42.9	61.6	92.4#



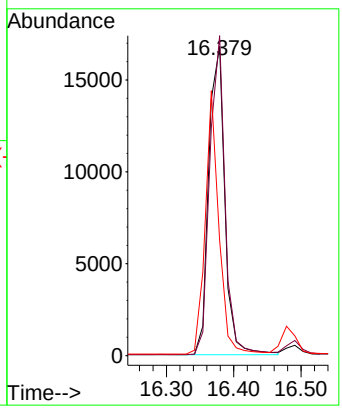


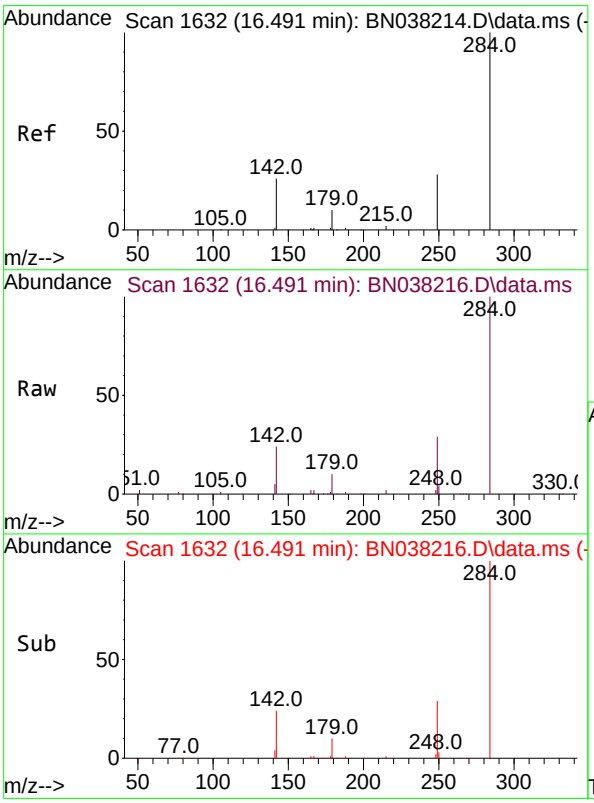
#21
4-Bromophenyl-phenylether
Concen: 1.658 ng
RT: 16.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 27977

Ion	Ratio	Lower	Upper
248	100		
250	103.6	80.8	121.2
141	37.3	41.0	61.6#

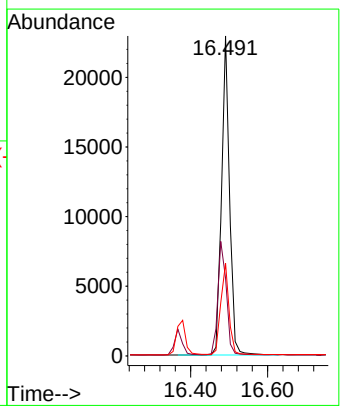


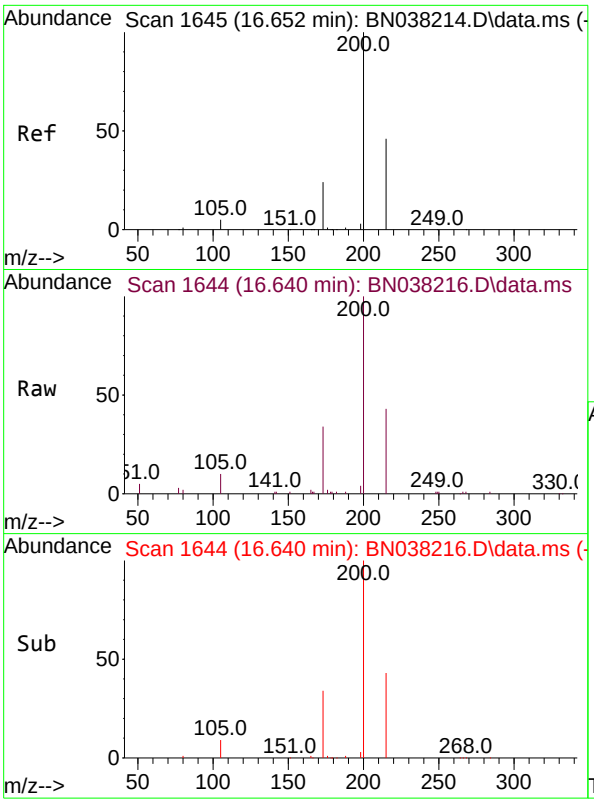


#22
Hexachlorobenzene
Concen: 1.584 ng
RT: 16.491 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:284 Resp: 32866

Ion	Ratio	Lower	Upper
284	100		
142	37.7	30.5	45.7
249	29.6	23.8	35.8



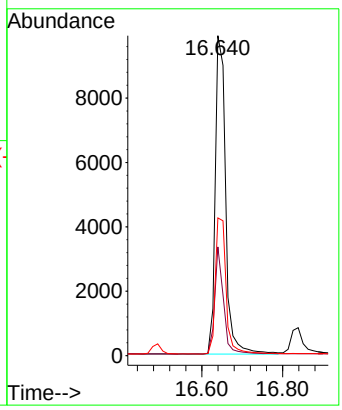


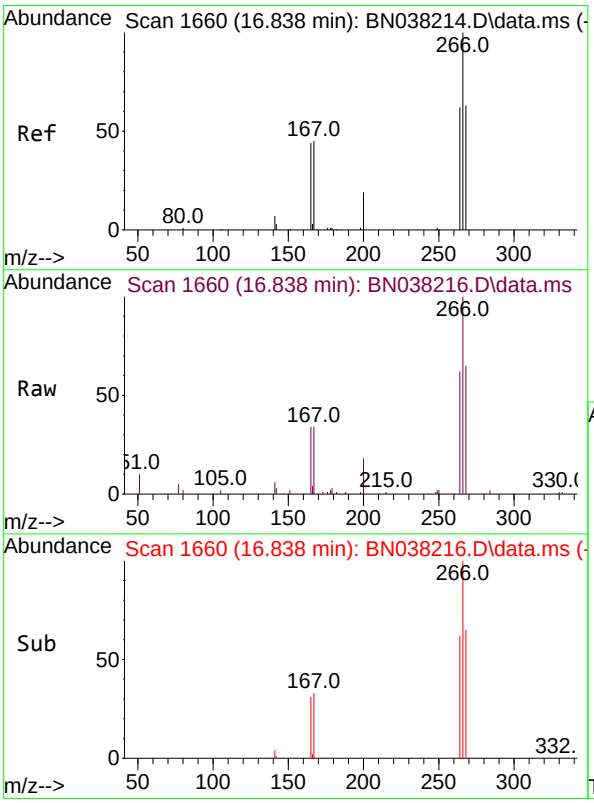
#23
Atrazine
Concen: 1.635 ng
RT: 16.640 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 17617

Ion	Ratio	Lower	Upper
200	100		
173	34.0	21.0	31.6#
215	43.0	37.8	56.8

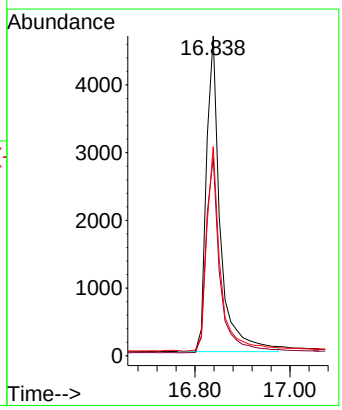


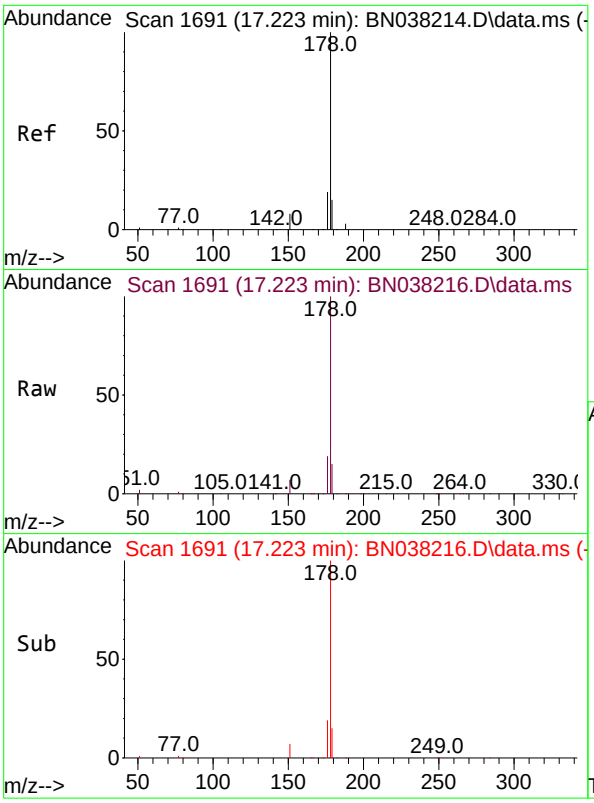


#24
Pentachlorophenol
Concen: 1.650 ng
RT: 16.838 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:266 Resp: 9380

Ion	Ratio	Lower	Upper
266	100		
264	62.1	48.9	73.3
268	64.2	50.2	75.2



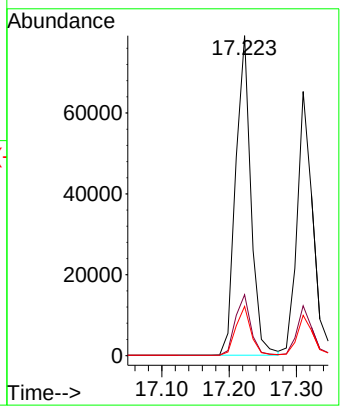


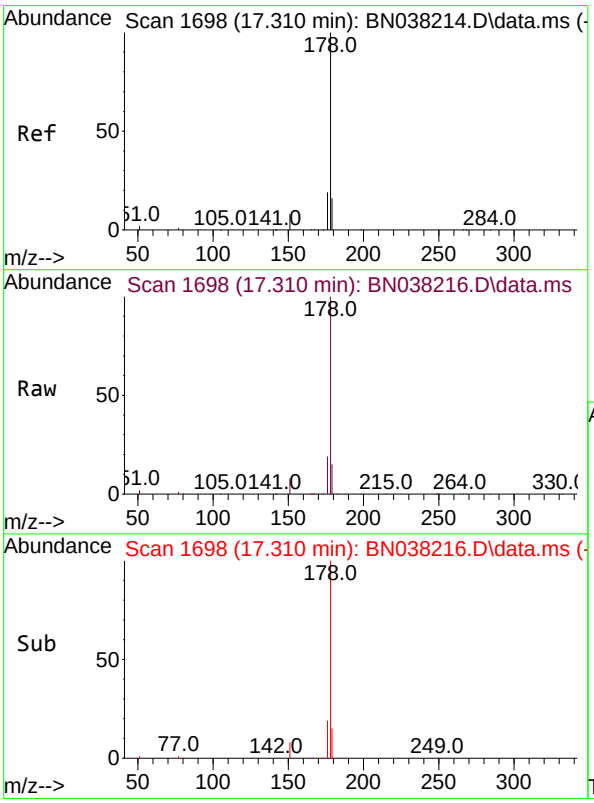
#25
Phenanthrene
Concen: 1.619 ng
RT: 17.223 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 123735

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.2	12.0	18.0

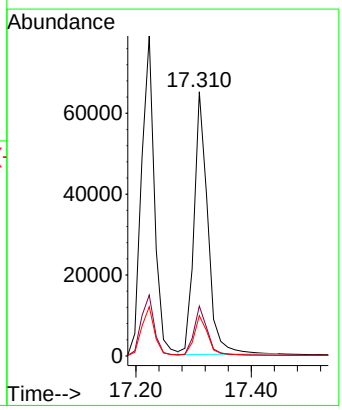


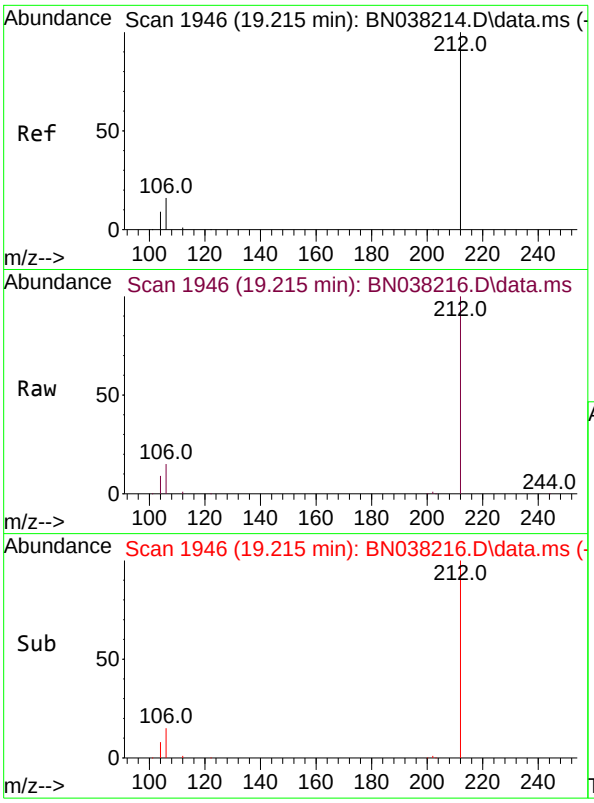


#26
Anthracene
Concen: 1.642 ng
RT: 17.310 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:178 Resp: 107108

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.7	22.1
179	15.2	12.3	18.5



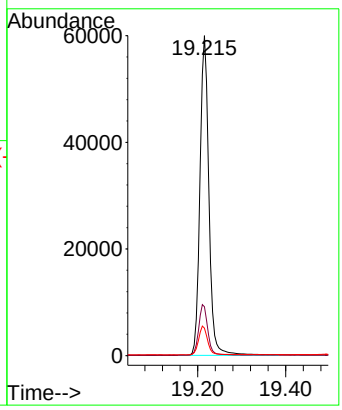


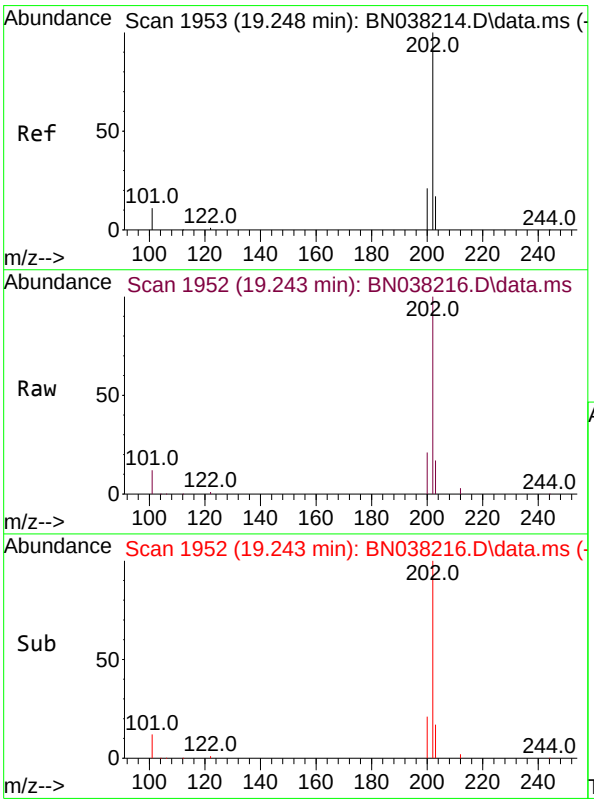
#27
Fluoranthene-d10
Concen: 1.593 ng
RT: 19.215 min Scan# 19
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 84152

Ion	Ratio	Lower	Upper
212	100		
106	16.0	12.7	19.1
104	9.0	7.3	10.9

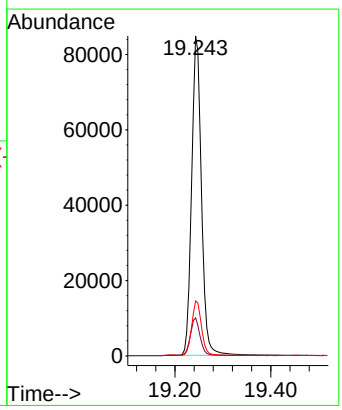


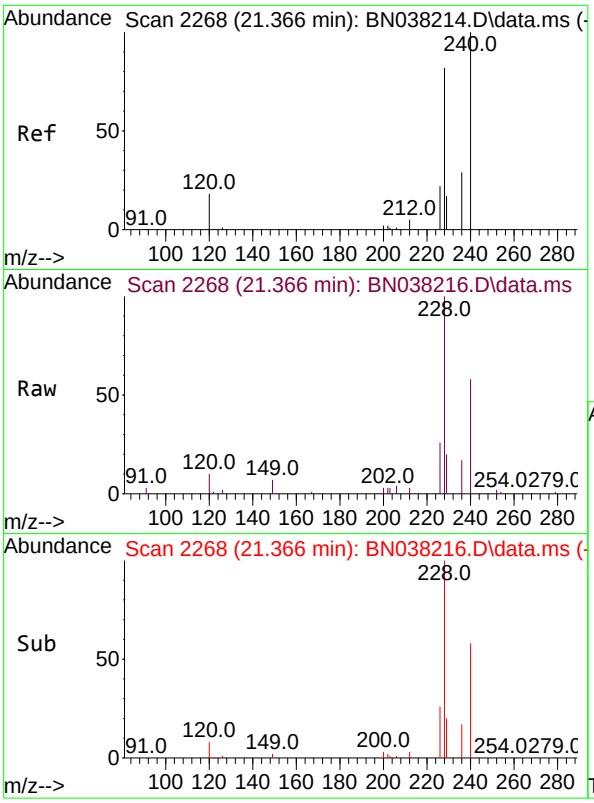


#28
Fluoranthene
Concen: 1.626 ng
RT: 19.243 min Scan# 1952
Delta R.T. -0.005 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:202 Resp: 119828

Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.8	14.6
203	17.0	13.6	20.4



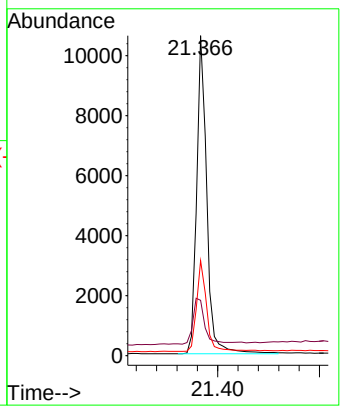


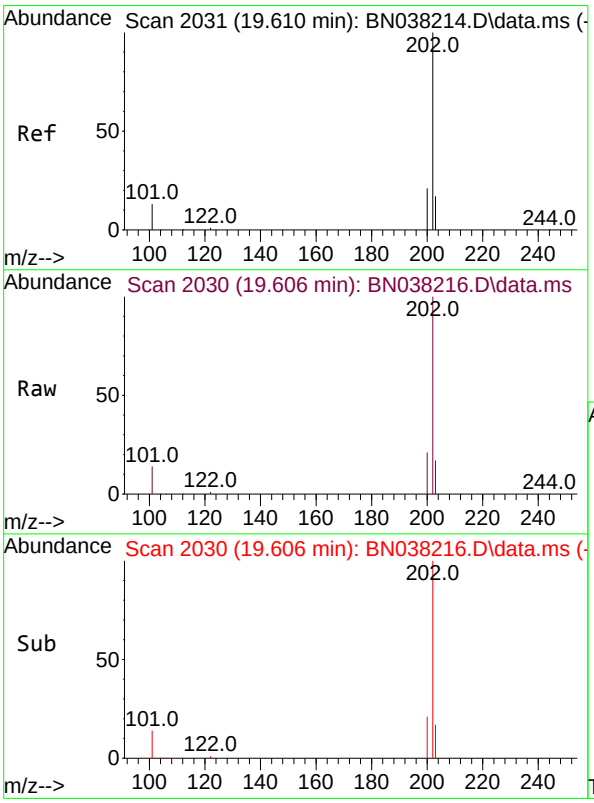
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.366 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 14651

Ion	Ratio	Lower	Upper
240	100		
120	17.3	18.1	27.1#
236	29.7	24.2	36.4

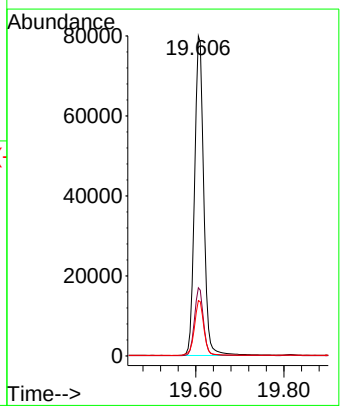


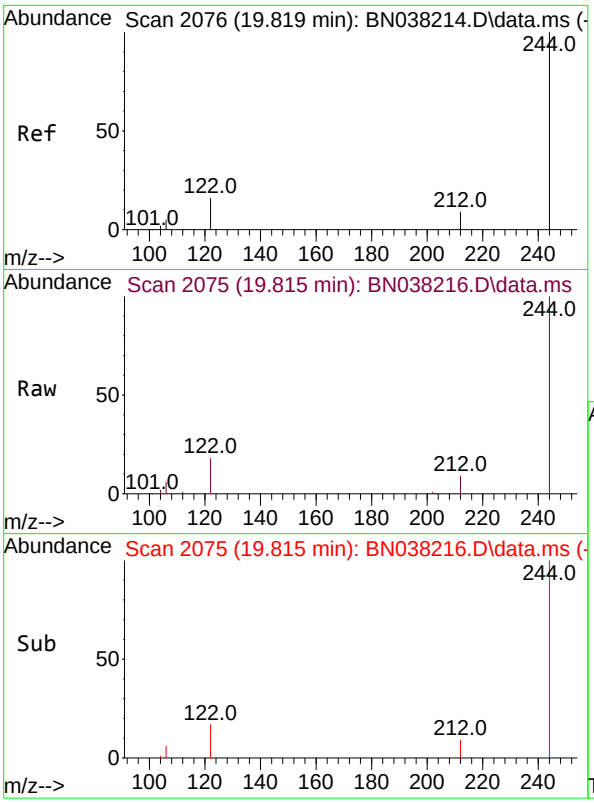


#30
Pyrene
Concen: 1.580 ng
RT: 19.606 min Scan# 2030
Delta R.T. -0.005 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:202 Resp: 115630

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	17.6	14.4	21.6



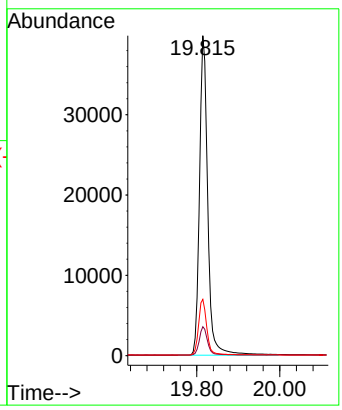


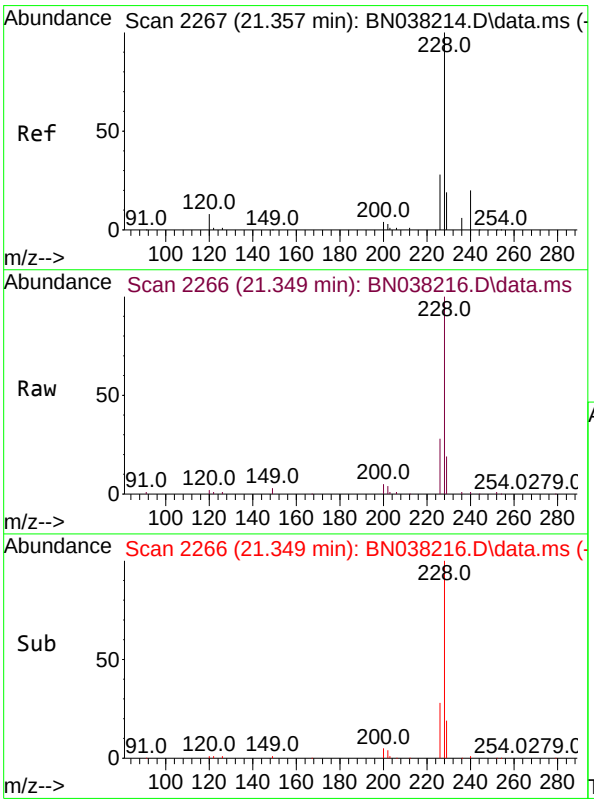
#31
Terphenyl-d14
Concen: 1.605 ng
RT: 19.815 min Scan# 20
Delta R.T. -0.005 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 54297

Ion	Ratio	Lower	Upper
244	100		
212	9.0	7.7	11.5
122	17.6	13.6	20.4

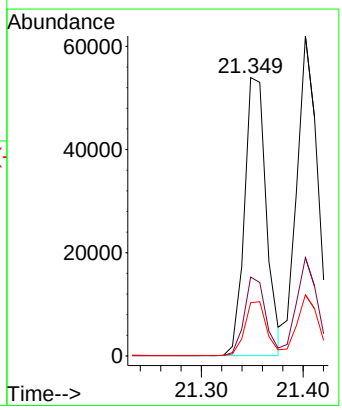


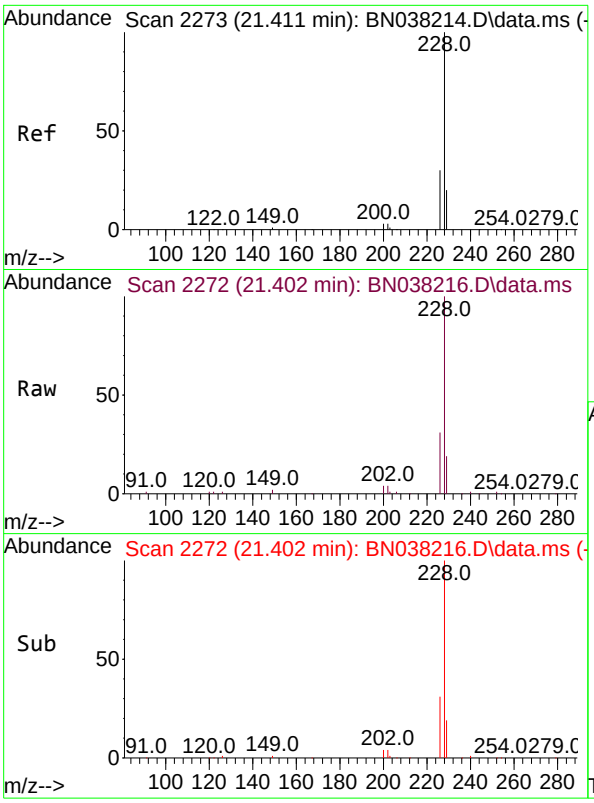


#32
Benzo(a)anthracene
Concen: 1.622 ng
RT: 21.349 min Scan# 2266
Delta R.T. -0.009 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:228 Resp: 80458

Ion	Ratio	Lower	Upper
228	100		
226	28.3	22.6	33.8
229	19.1	15.8	23.8



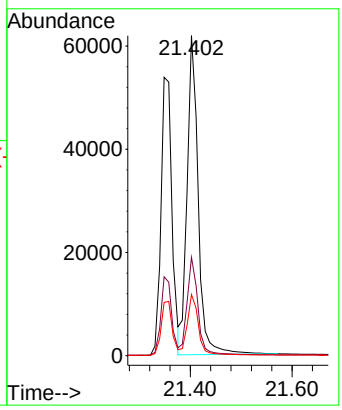


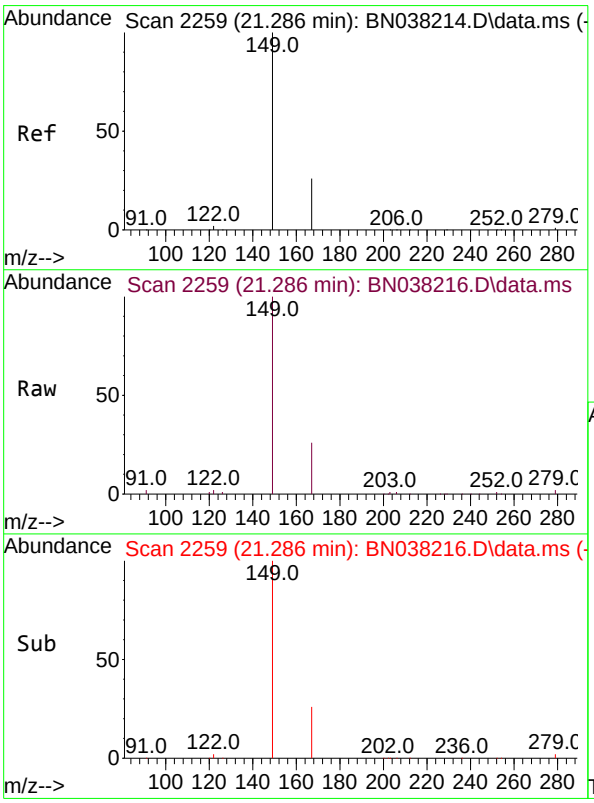
#33
Chrysene
Concen: 1.598 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 93587

Ion	Ratio	Lower	Upper
228	100		
226	30.7	23.8	35.8
229	19.1	16.1	24.1

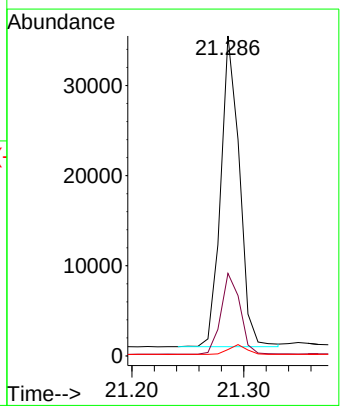


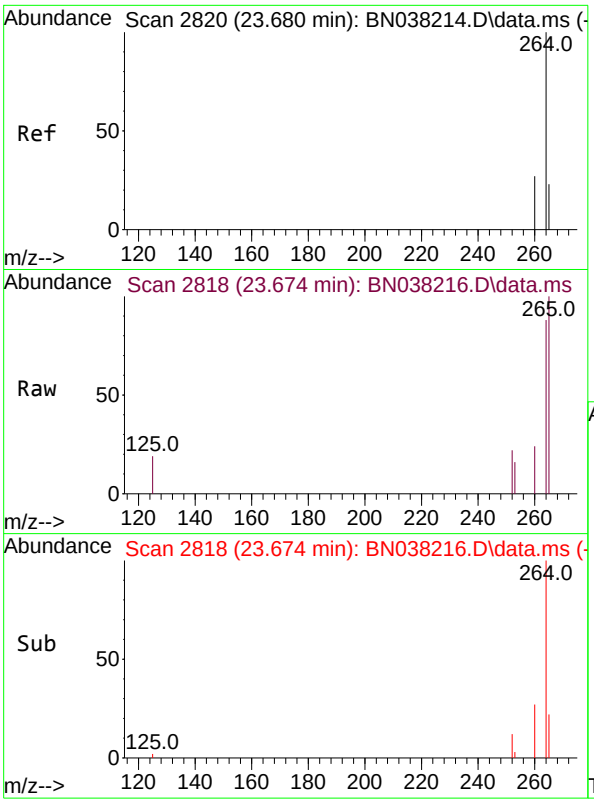


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.472 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:149 Resp: 39988

Ion	Ratio	Lower	Upper
149	100		
167	26.6	20.7	31.1
279	3.1	2.5	3.7



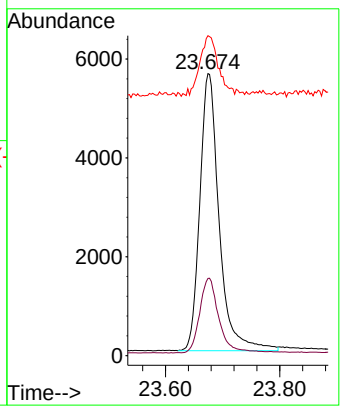


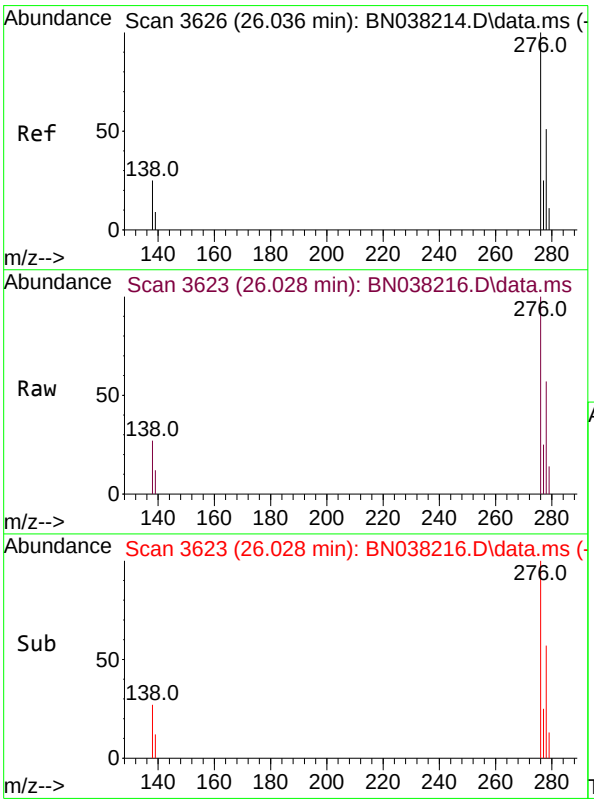
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.674 min Scan# 28
Delta R.T. -0.006 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 13162

Ion	Ratio	Lower	Upper
264	100		
260	27.4	21.7	32.5
265	113.5	98.0	147.0

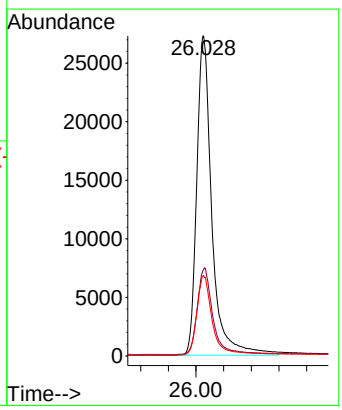


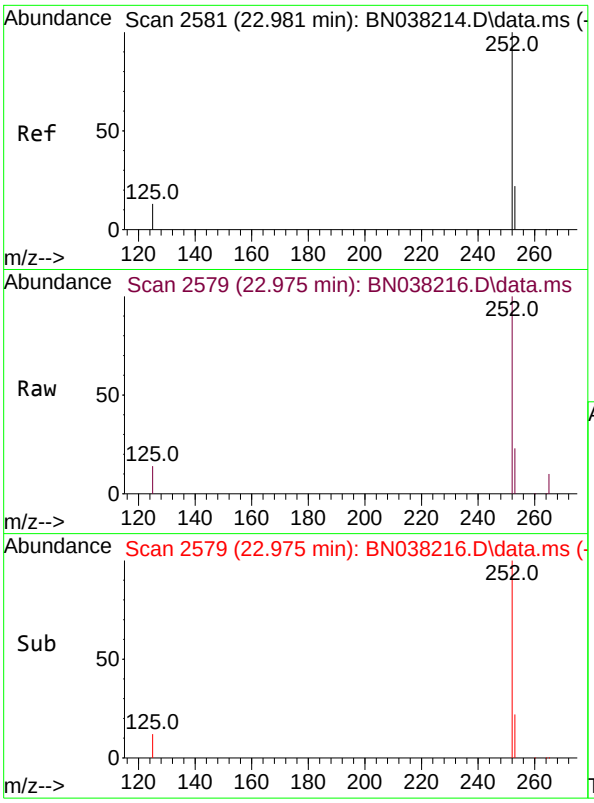


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.696 ng
RT: 26.028 min Scan# 3623
Delta R.T. -0.009 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:276 Resp: 103317

Ion	Ratio	Lower	Upper
276	100		
138	26.9	21.4	32.2
277	24.8	19.1	28.7



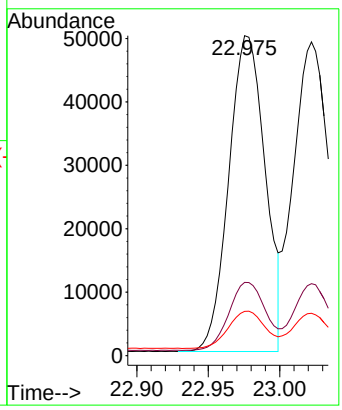


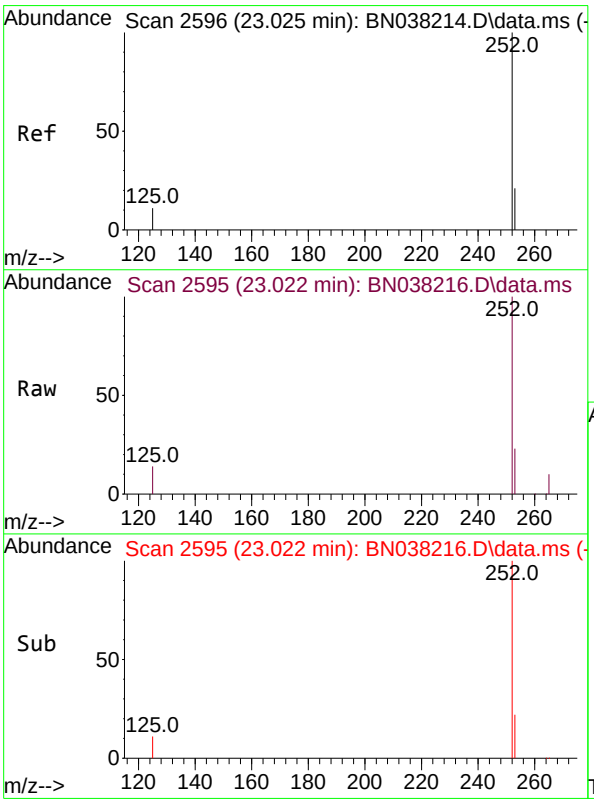
#37
Benzo(b)fluoranthene
Concen: 1.633 ng
RT: 22.975 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 88199

Ion	Ratio	Lower	Upper
252	100		
253	22.9	22.2	33.4
125	13.8	18.0	27.0#

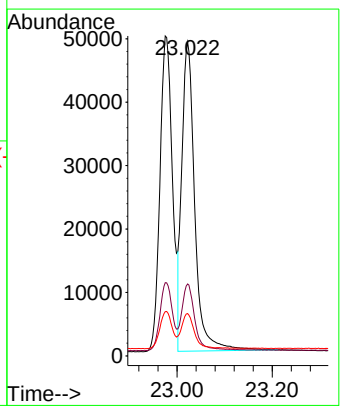


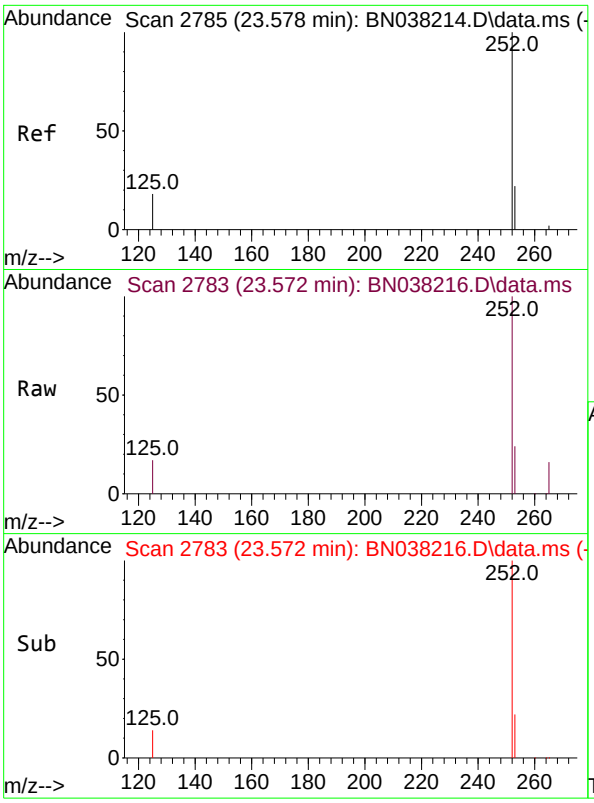


#38
Benzo(k)fluoranthene
Concen: 1.639 ng
RT: 23.022 min Scan# 2595
Delta R.T. -0.003 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:252 Resp: 92066

Ion	Ratio	Lower	Upper
252	100		
253	22.9	22.4	33.6
125	13.5	17.5	26.3#



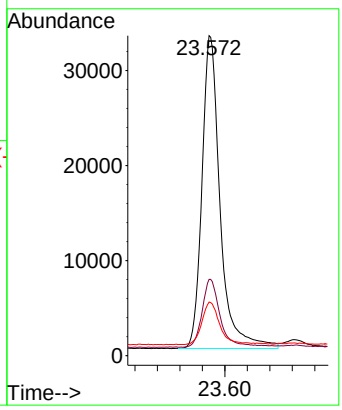


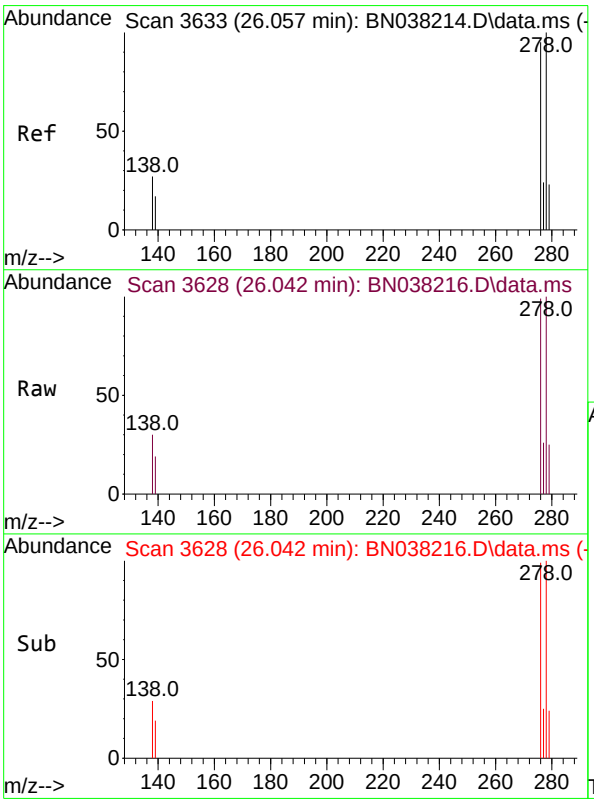
#39
Benzo(a)pyrene
Concen: 1.631 ng
RT: 23.572 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 73851

Ion	Ratio	Lower	Upper
252	100		
253	23.8	25.3	37.9#
125	16.7	25.2	37.8#

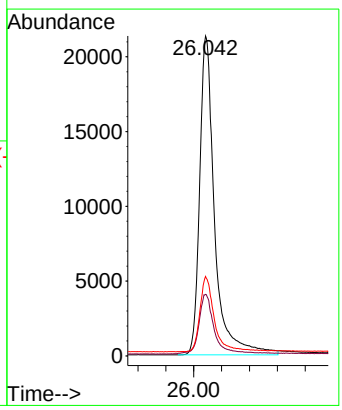


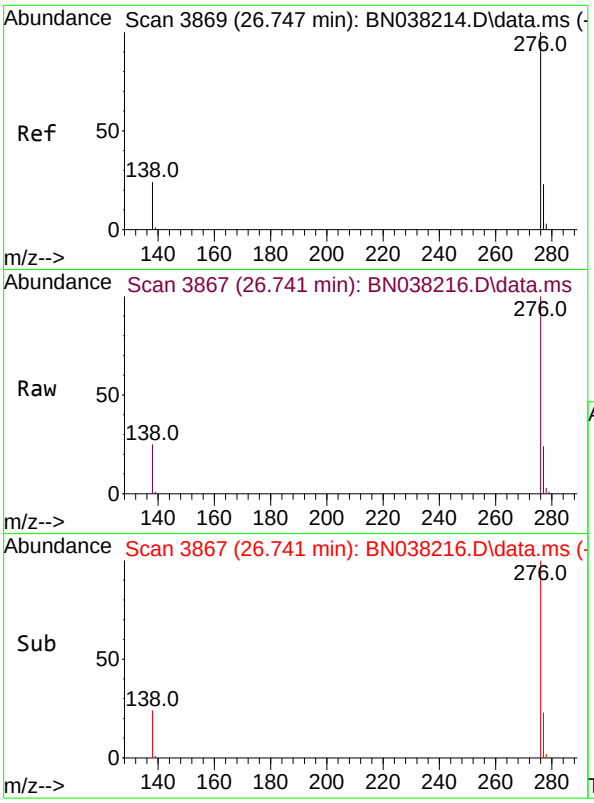


#40
Dibenzo(a,h)anthracene
Concen: 1.726 ng
RT: 26.042 min Scan# 3628
Delta R.T. -0.015 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Tgt Ion:278 Resp: 79584

Ion	Ratio	Lower	Upper
278	100		
139	19.2	17.6	26.4
279	24.8	24.2	36.4



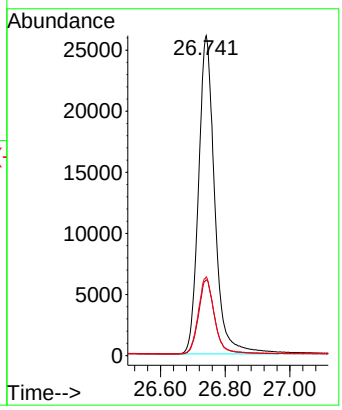


#41
Benzo(g,h,i)perylene
Concen: 1.652 ng
RT: 26.741 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN038216.D
Acq: 26 Nov 2025 23:01

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 90531

Ion	Ratio	Lower	Upper
276	100		
277	23.7	20.2	30.2
138	24.6	20.8	31.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038217.D
Acq On : 26 Nov 2025 23:37
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Nov 28 20:55:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.768	152	8921	0.400	ng		0.00
7) Naphthalene-d8	10.562	136	27682	0.400	ng		#-0.01
13) Acenaphthene-d10	14.430	164	16051	0.400	ng		0.00
19) Phenanthrene-d10	17.174	188	27295	0.400	ng		#-0.01
29) Chrysene-d12	21.367	240	16427	0.400	ng		# 0.00
35) Perylene-d12	23.674	264	13786	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.341	112	65305	3.132	ng		0.00
5) Phenol-d6	6.930	99	85830	3.295	ng		0.00
8) Nitrobenzene-d5	8.918	82	68353	3.088	ng		0.00
11) 2-Methylnaphthalene-d10	12.167	152	129220	3.288	ng		0.00
14) 2,4,6-Tribromophenol	15.920	330	21150	4.188	ng		-0.01
15) 2-Fluorobiphenyl	13.051	172	189268	3.053	ng		0.00
27) Fluoranthene-d10	19.215	212	197760	3.340	ng		0.00
31) Terphenyl-d14	19.815	244	127791	3.368	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.247	88	28493	3.032	ng		100
3) n-Nitrosodimethylamine	3.550	42	37688	3.252	ng	#	96
6) bis(2-Chloroethyl)ether	7.183	93	80616	3.232	ng		98
9) Naphthalene	10.616	128	242099	3.149	ng		99
10) Hexachlorobutadiene	10.915	225	39924	3.054	ng	#	99
12) 2-Methylnaphthalene	12.238	142	166016	3.282	ng		99
16) Acenaphthylene	14.142	152	239664	3.339	ng		100
17) Acenaphthene	14.495	154	162095	3.240	ng		97
18) Fluorene	15.478	166	219348	3.387	ng		99
20) 4,6-Dinitro-2-methylph...	15.560	198	12986	3.198	ng	#	1
21) 4-Bromophenyl-phenylether	16.379	248	62082	3.283	ng	#	91
22) Hexachlorobenzene	16.491	284	69759	3.000	ng		100
23) Atrazine	16.640	200	43154	3.573	ng	#	91
24) Pentachlorophenol	16.838	266	25503	4.002	ng		98
25) Phenanthrene	17.223	178	282285	3.294	ng		100
26) Anthracene	17.310	178	252456	3.453	ng		99
28) Fluoranthene	19.243	202	279719	3.387	ng		99
30) Pyrene	19.606	202	272924	3.326	ng		100
32) Benzo(a)anthracene	21.349	228	186737	3.357	ng		99
33) Chrysene	21.402	228	202547	3.085	ng		99
34) Bis(2-ethylhexyl)phtha...	21.286	149	97307	3.194	ng		99
36) Indeno(1,2,3-cd)pyrene	26.025	276	216471	3.393	ng		98
37) Benzo(b)fluoranthene	22.979	252	189788	3.354	ng	#	84
38) Benzo(k)fluoranthene	23.022	252	195835	3.329	ng	#	85
39) Benzo(a)pyrene	23.572	252	156001	3.289	ng	#	76
40) Dibenzo(a,h)anthracene	26.040	278	169926	3.518	ng	#	90
41) Benzo(g,h,i)perylene	26.738	276	186060	3.242	ng		97

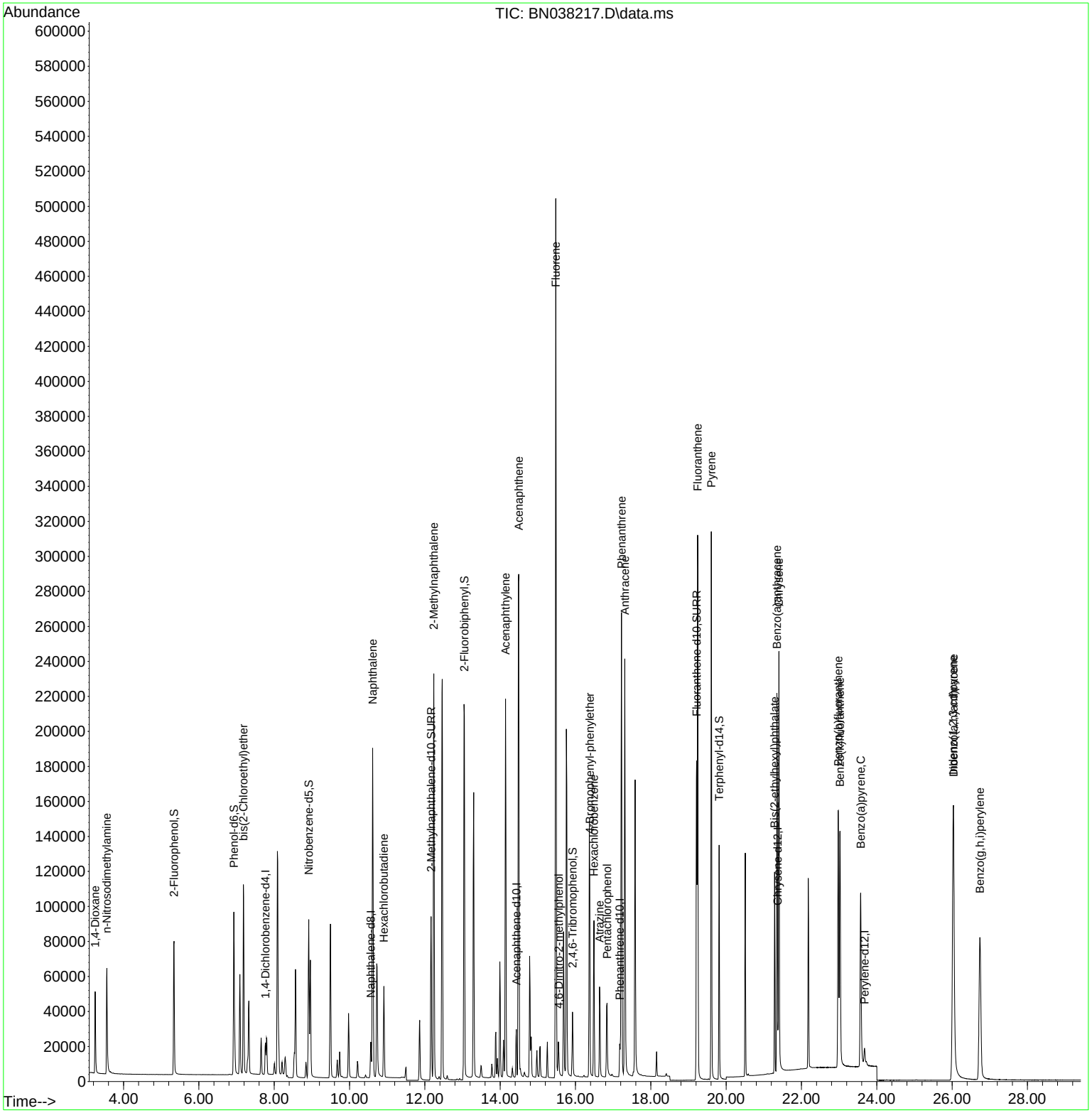
(#) = qualifier out of range (m) = manual integration (+) = signals summed

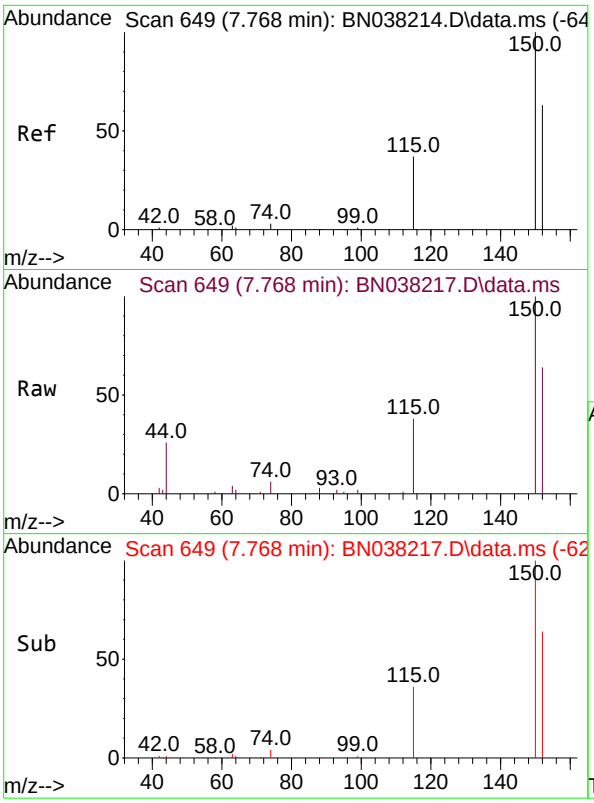
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038217.D
Acq On : 26 Nov 2025 23:37
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Nov 28 20:55:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 2025
Response via : Initial Calibration



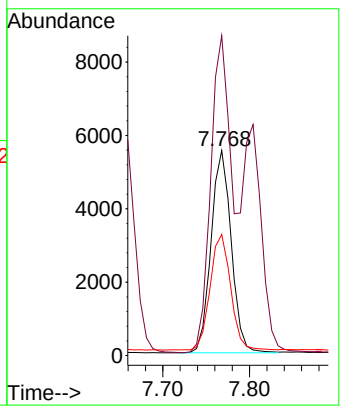


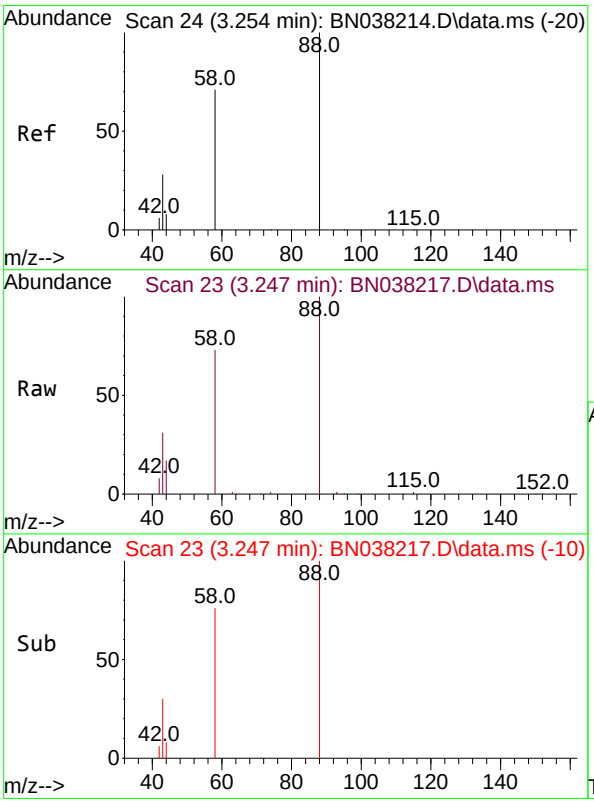
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.768 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 8921

Ion	Ratio	Lower	Upper
152	100		
150	156.1	125.3	187.9
115	59.1	49.0	73.4

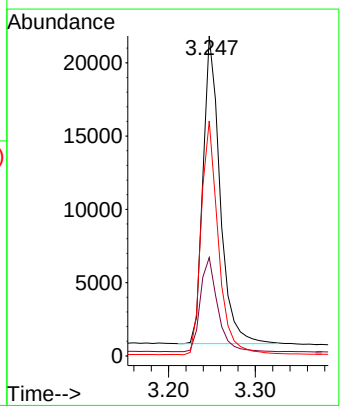


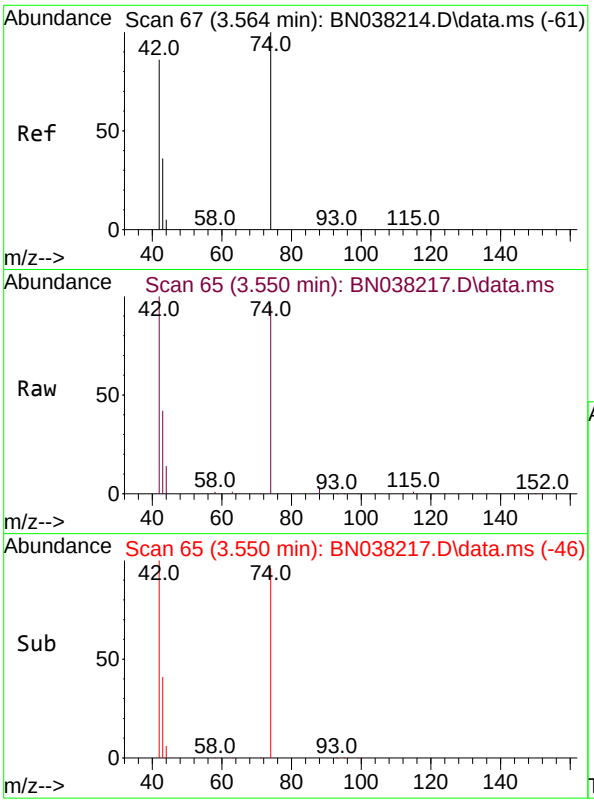


#2
1,4-Dioxane
Concen: 3.032 ng
RT: 3.247 min Scan# 23
Delta R.T. -0.007 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion: 88 Resp: 28493

Ion	Ratio	Lower	Upper
88	100		
43	30.9	24.8	37.2
58	76.3	61.1	91.7



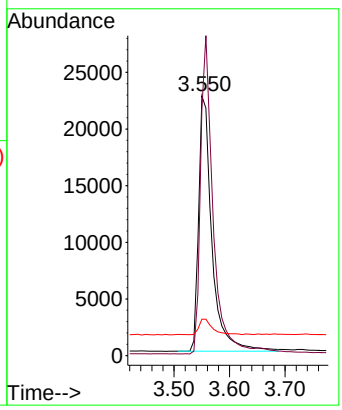


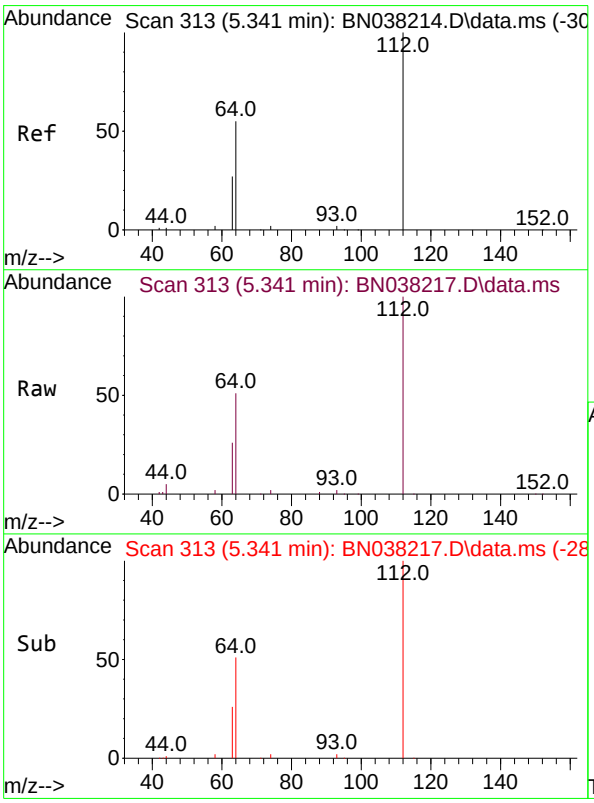
#3
n-Nitrosodimethylamine
Concen: 3.252 ng
RT: 3.550 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 37688

Ion	Ratio	Lower	Upper
42	100		
74	116.3	96.2	144.2
44	6.3	8.0	12.0#

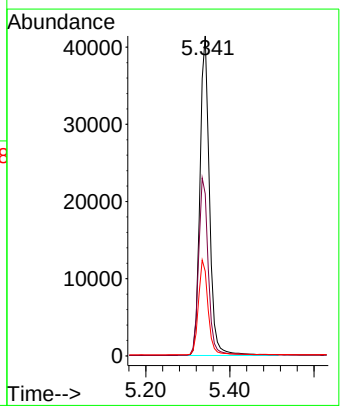


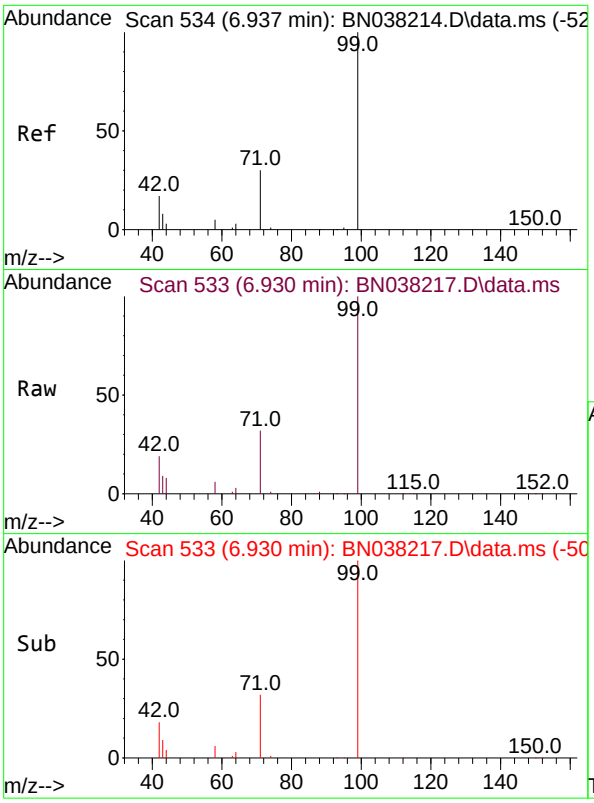


#4
2-Fluorophenol
Concen: 3.132 ng
RT: 5.341 min Scan# 313
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion:112 Resp: 65305

Ion	Ratio	Lower	Upper
112	100		
64	56.4	45.0	67.4
63	29.7	23.2	34.8



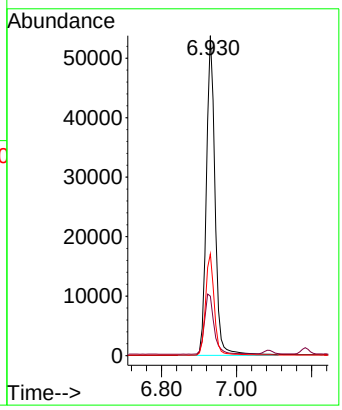


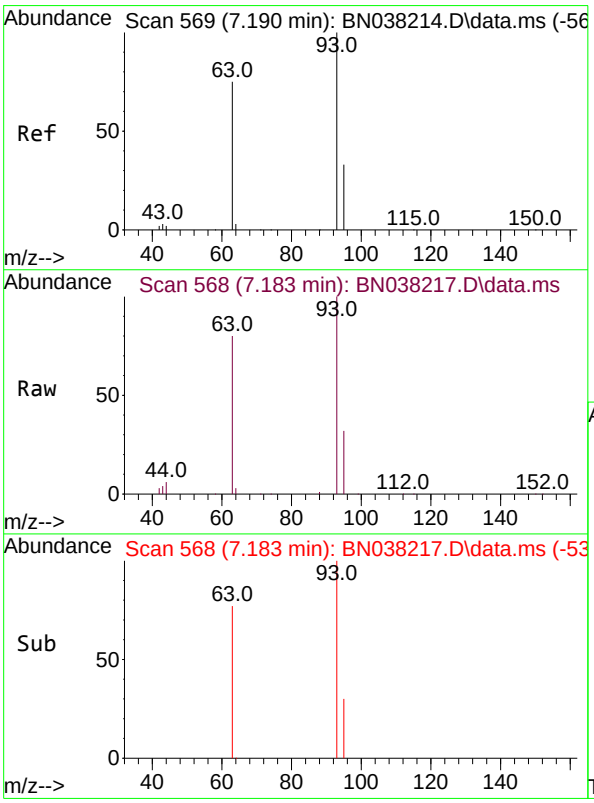
#5
Phenol-d6
Concen: 3.295 ng
RT: 6.930 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 85830

Ion	Ratio	Lower	Upper
99	100		
42	21.0	17.0	25.6
71	32.2	25.4	38.2

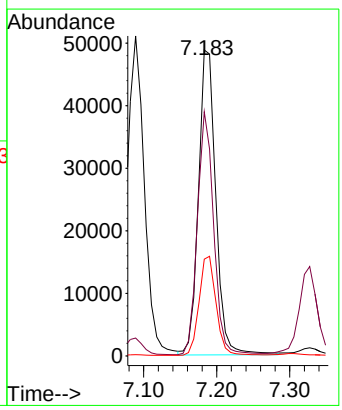


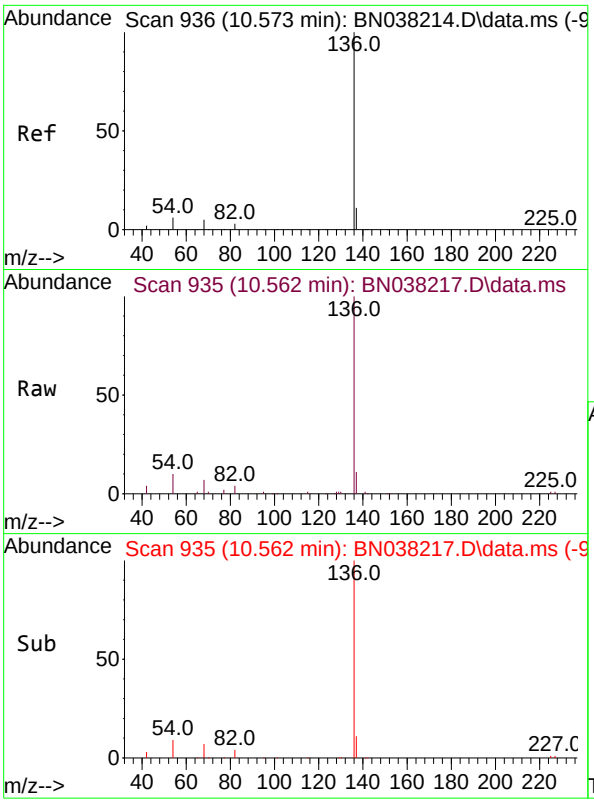


#6
bis(2-Chloroethyl)ether
Concen: 3.232 ng
RT: 7.183 min Scan# 568
Delta R.T. -0.007 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion: 93 Resp: 80616

Ion	Ratio	Lower	Upper
93	100		
63	74.8	58.1	87.1
95	31.8	25.1	37.7



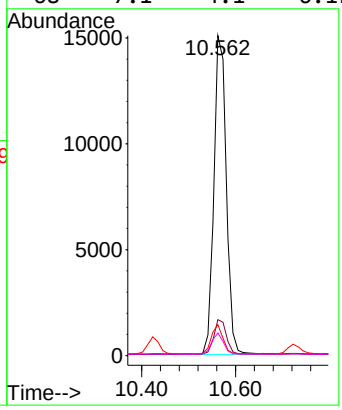


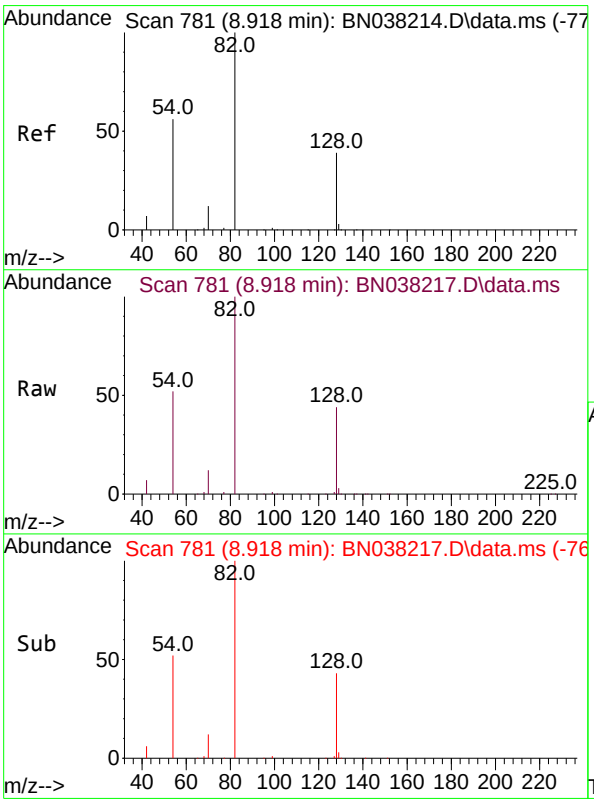
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 9
Delta R.T. -0.010 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 27682

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.9	13.3
54	9.7	5.4	8.0#
68	7.1	4.1	6.1#

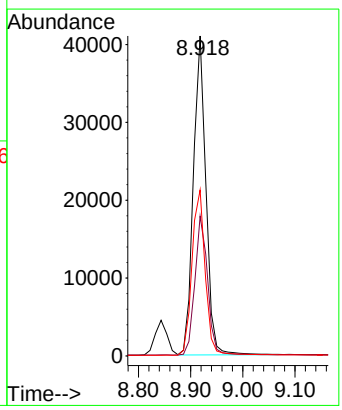


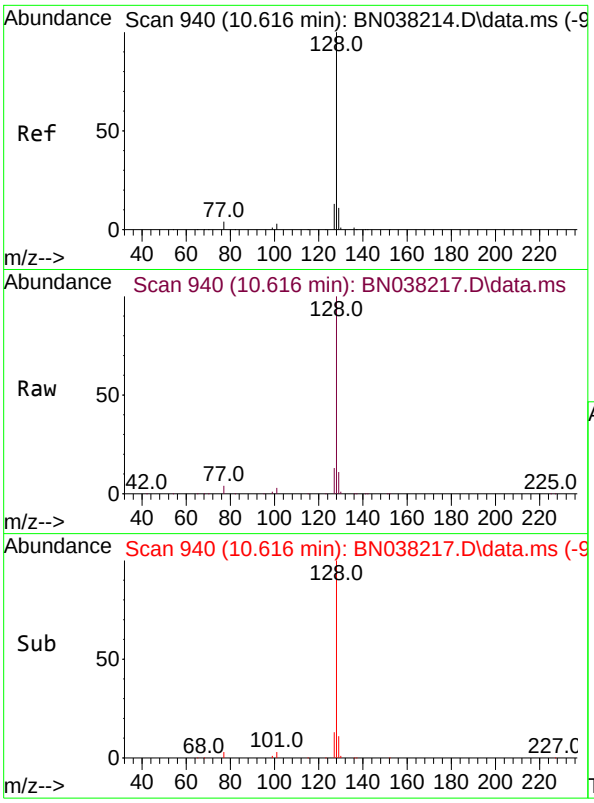


#8
Nitrobenzene-d5
Concen: 3.088 ng
RT: 8.918 min Scan# 781
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion: 82 Resp: 68353

Ion	Ratio	Lower	Upper
82	100		
128	43.7	32.6	48.8
54	51.9	45.4	68.0



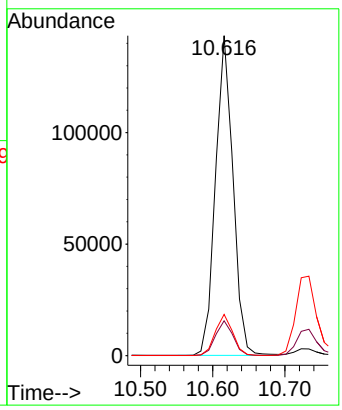


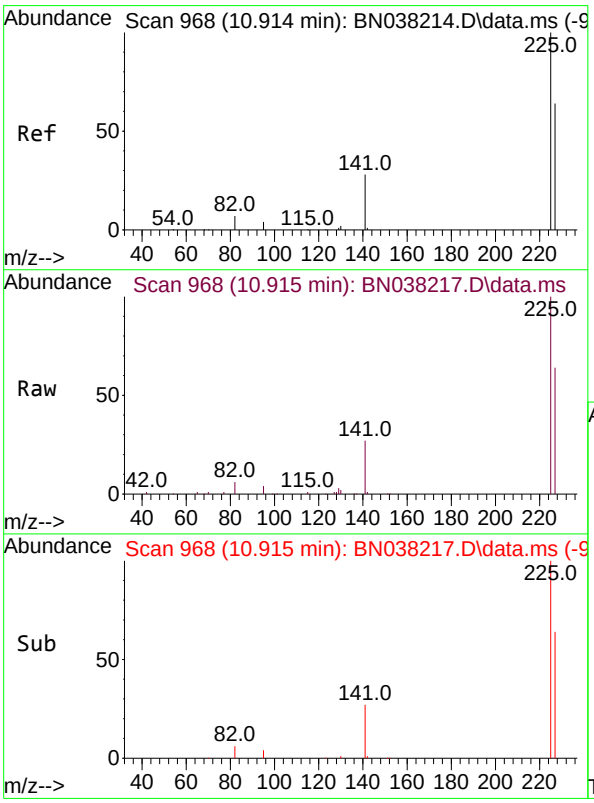
#9
Naphthalene
Concen: 3.149 ng
RT: 10.616 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 242099

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.1	13.7
127	12.9	10.6	16.0

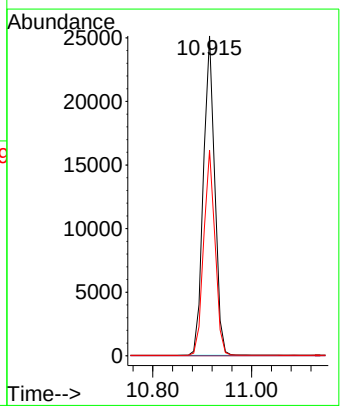


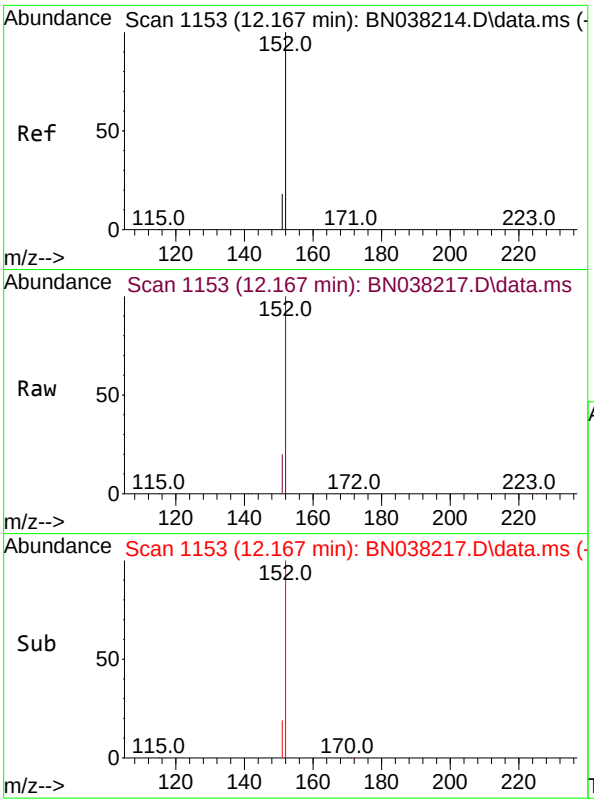


#10
Hexachlorobutadiene
Concen: 3.054 ng
RT: 10.915 min Scan# 968
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion:225 Resp: 39924

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.2	50.5	75.7



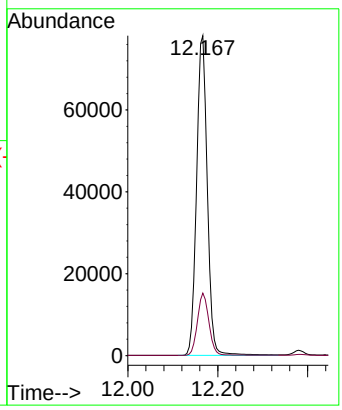


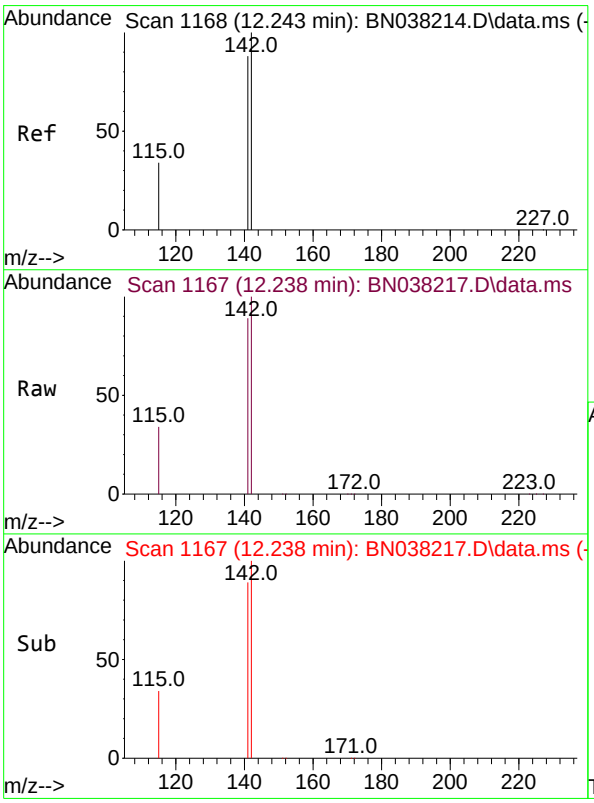
#11
2-Methylnaphthalene-d10
Concen: 3.288 ng
RT: 12.167 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 129220

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.7	25.1

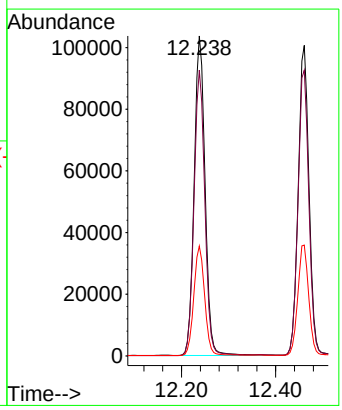


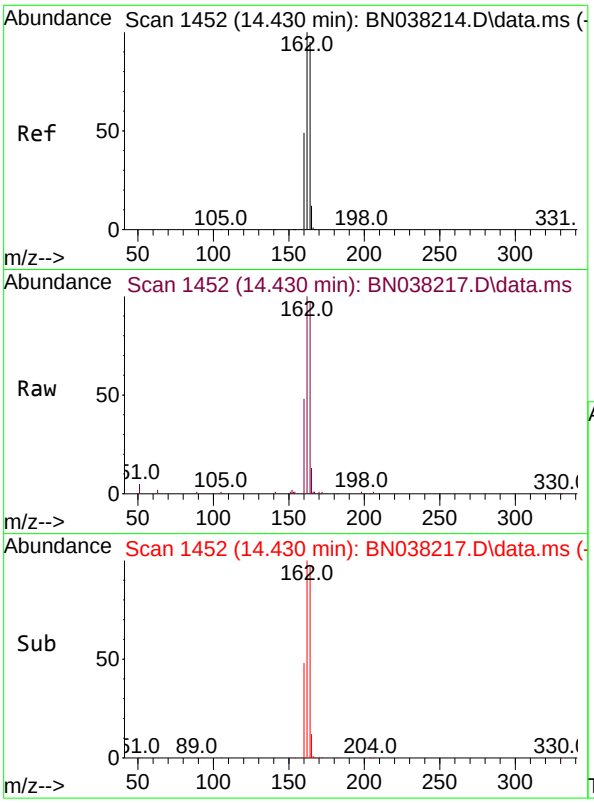


#12
2-Methylnaphthalene
Concen: 3.282 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion:142 Resp: 166016

Ion	Ratio	Lower	Upper
142	100		
141	89.3	70.9	106.3
115	34.3	27.7	41.5



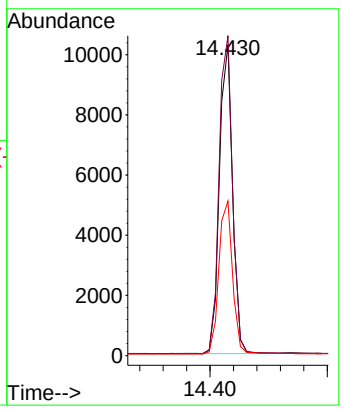


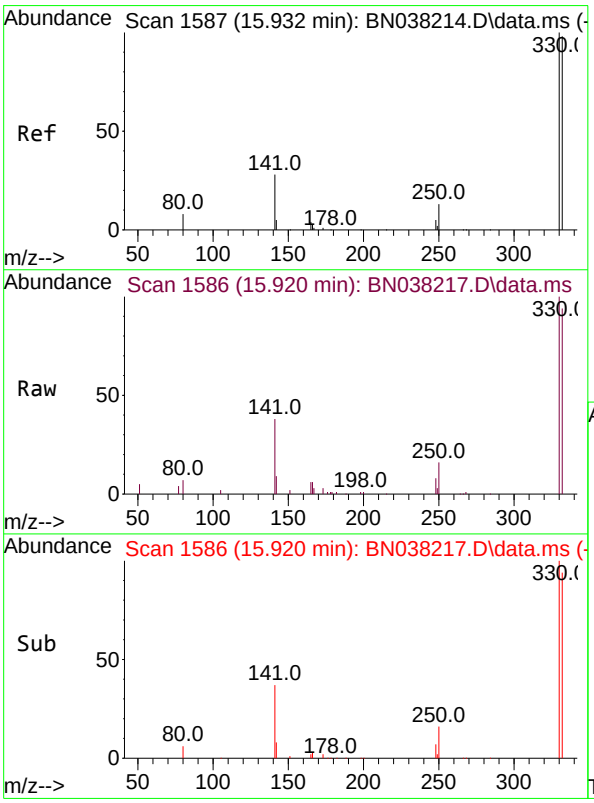
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 16051

Ion	Ratio	Lower	Upper
164	100		
162	103.0	83.8	125.8
160	49.7	41.6	62.4

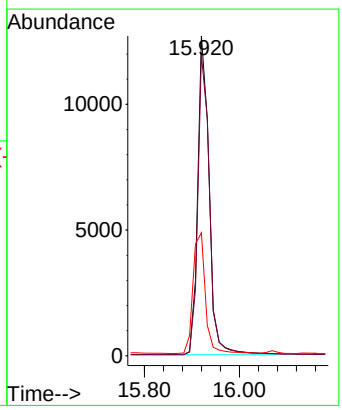


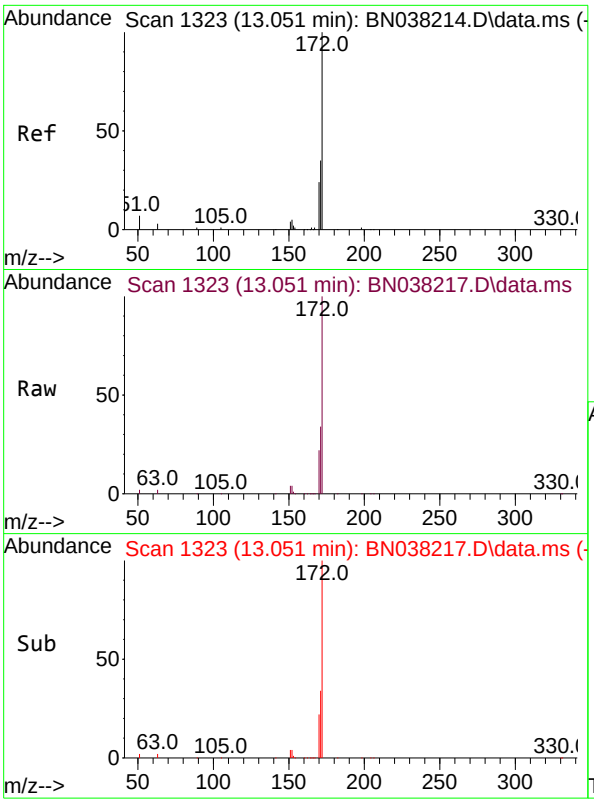


#14
2,4,6-Tribromophenol
Concen: 4.188 ng
RT: 15.920 min Scan# 1586
Delta R.T. -0.012 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion:330 Resp: 21150

Ion	Ratio	Lower	Upper
330	100		
332	96.2	77.8	116.6
141	41.0	33.0	49.4



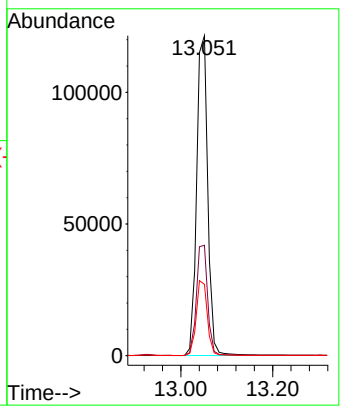


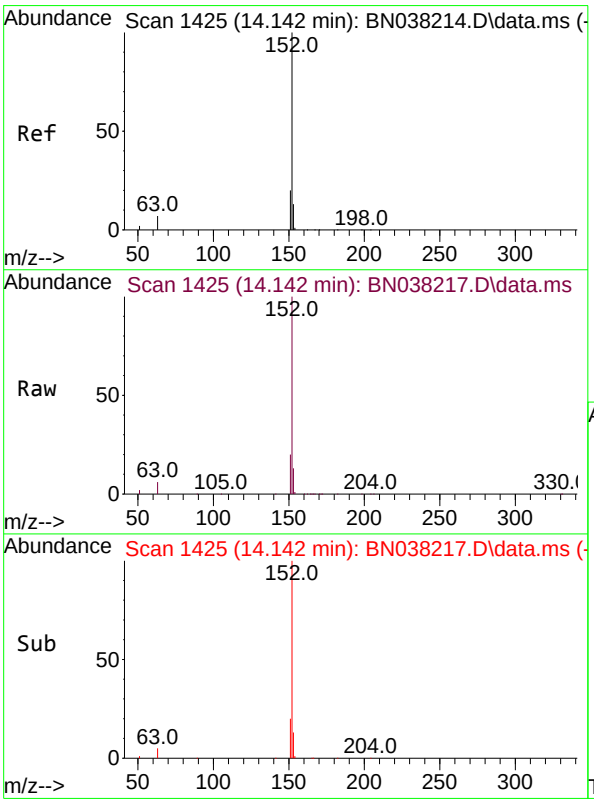
#15
2-Fluorobiphenyl
Concen: 3.053 ng
RT: 13.051 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 189268

Ion	Ratio	Lower	Upper
172	100		
171	34.5	28.1	42.1
170	22.3	19.1	28.7

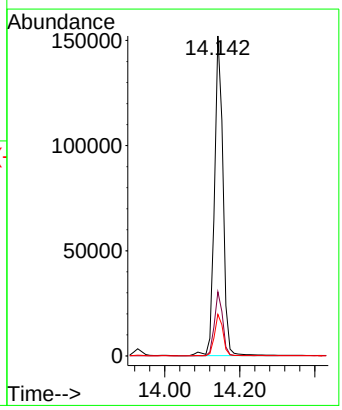


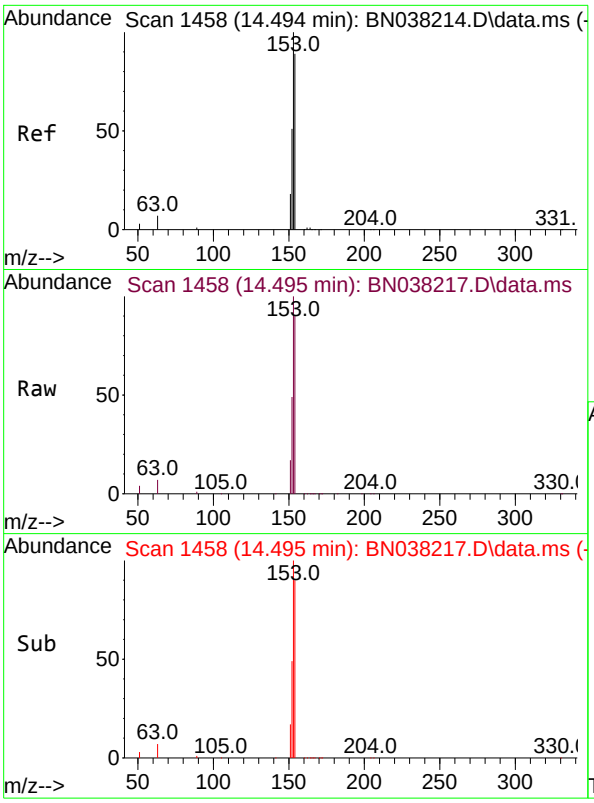


#16
Acenaphthylene
Concen: 3.339 ng
RT: 14.142 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion:152 Resp: 239664

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.6	23.4
153	13.0	10.6	15.8



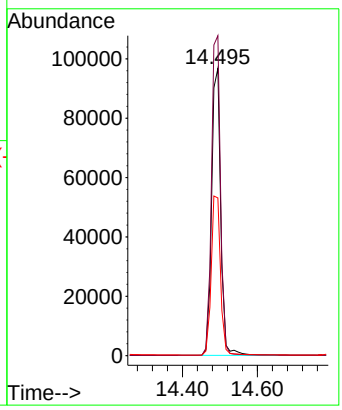


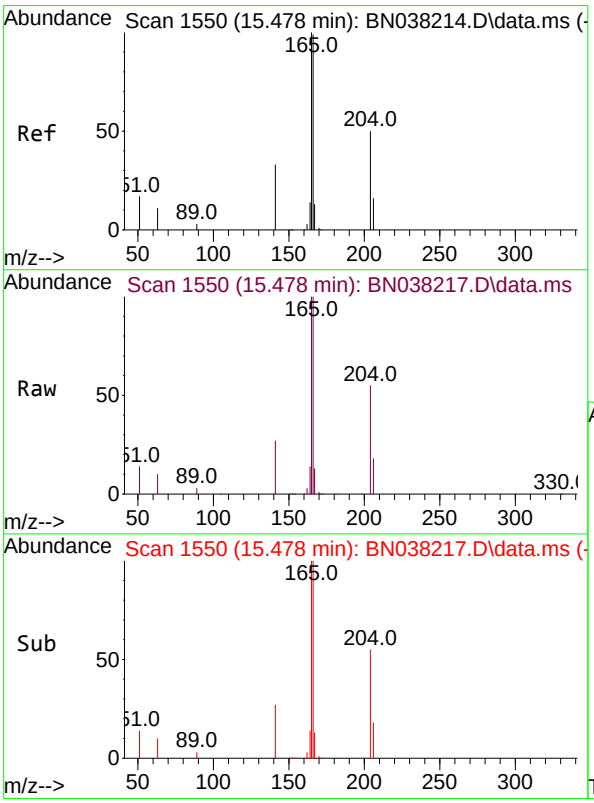
#17
Acenaphthene
Concen: 3.240 ng
RT: 14.495 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 162095

Ion	Ratio	Lower	Upper
154	100		
153	111.5	91.1	136.7
152	56.7	48.2	72.2

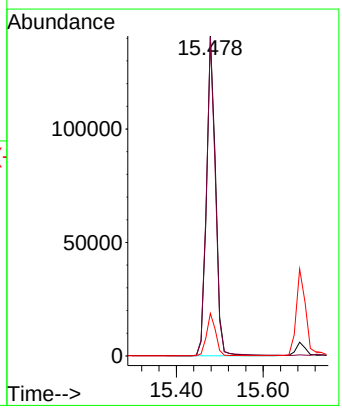


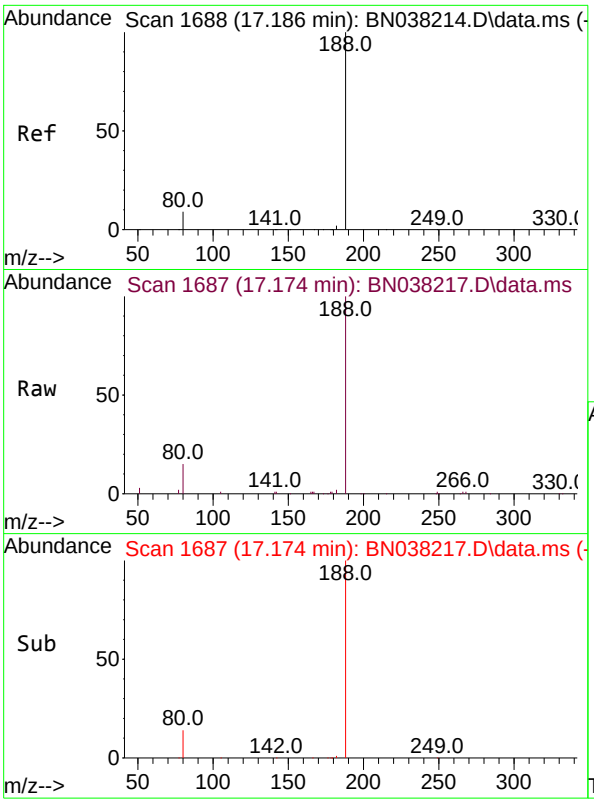


#18
Fluorene
Concen: 3.387 ng
RT: 15.478 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion:166 Resp: 219348

Ion	Ratio	Lower	Upper
166	100		
165	98.9	78.7	118.1
167	13.2	10.9	16.3



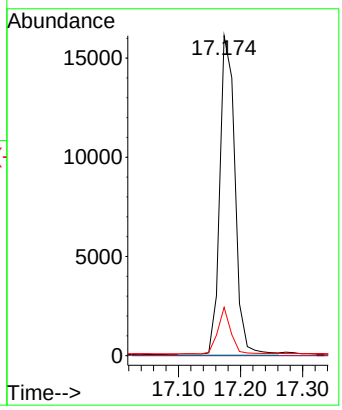


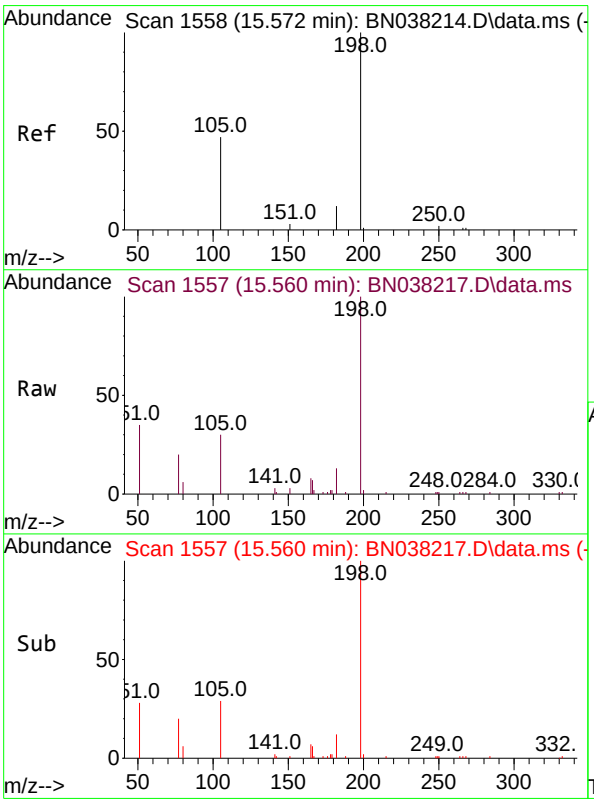
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.174 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 27295

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.1	7.7	11.5#

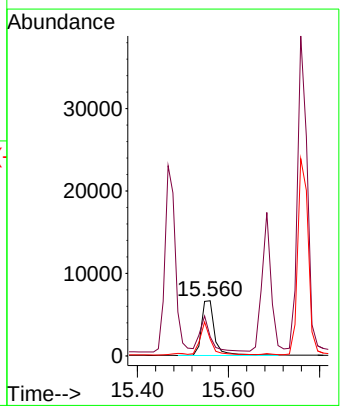


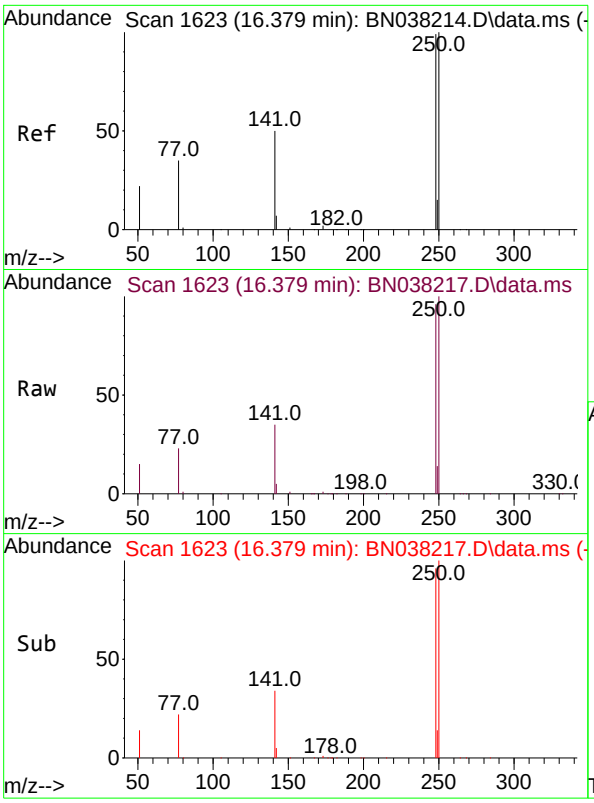


#20
4,6-Dinitro-2-methylphenol
Concen: 3.198 ng
RT: 15.560 min Scan# 1557
Delta R.T. -0.012 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion:198 Resp: 12986

Ion	Ratio	Lower	Upper
198	100		
51	34.6	205.1	307.7#
105	30.5	61.6	92.4#



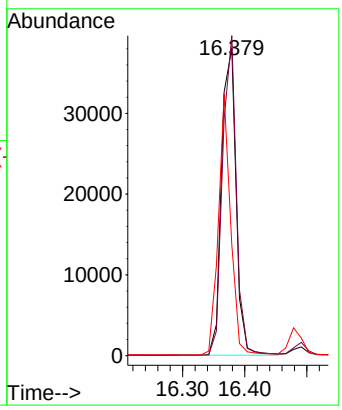


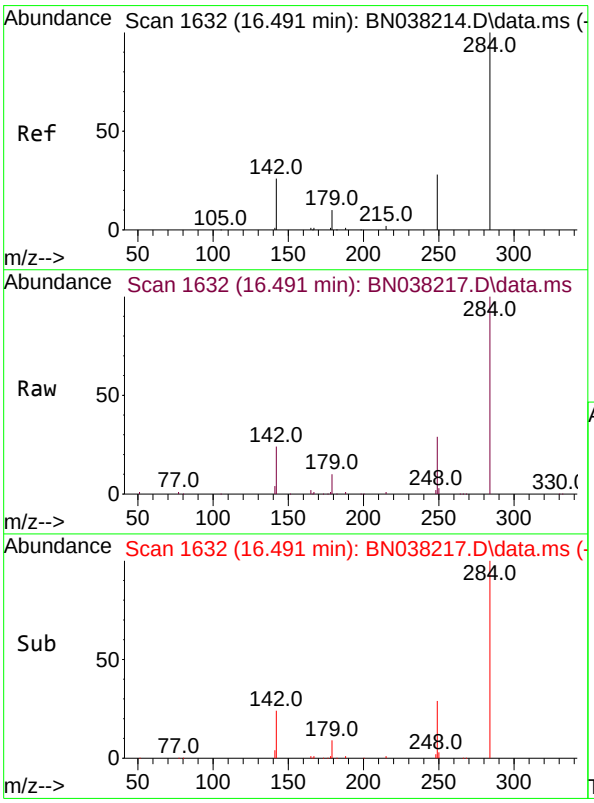
#21
4-Bromophenyl-phenylether
Concen: 3.283 ng
RT: 16.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:248 Resp: 62082

Ion	Ratio	Lower	Upper
248	100		
250	104.2	80.8	121.2
141	36.1	41.0	61.6#

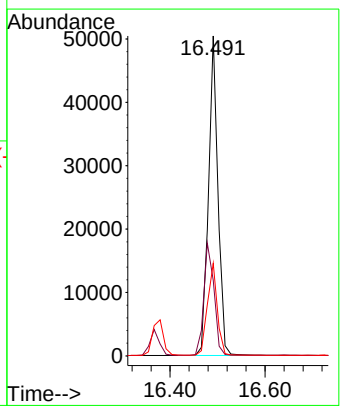


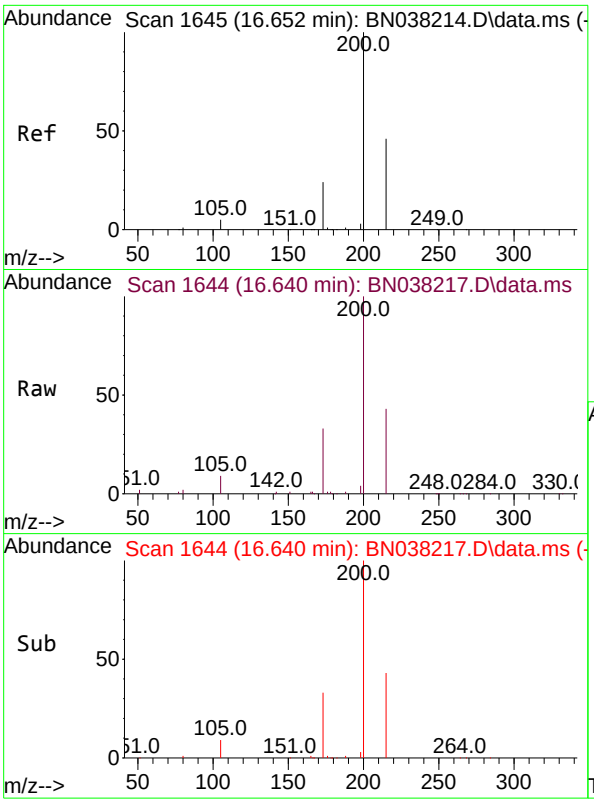


#22
Hexachlorobenzene
Concen: 3.000 ng
RT: 16.491 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion:284 Resp: 69759

Ion	Ratio	Lower	Upper
284	100		
142	37.8	30.5	45.7
249	29.9	23.8	35.8



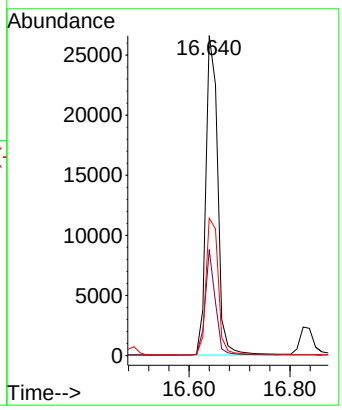


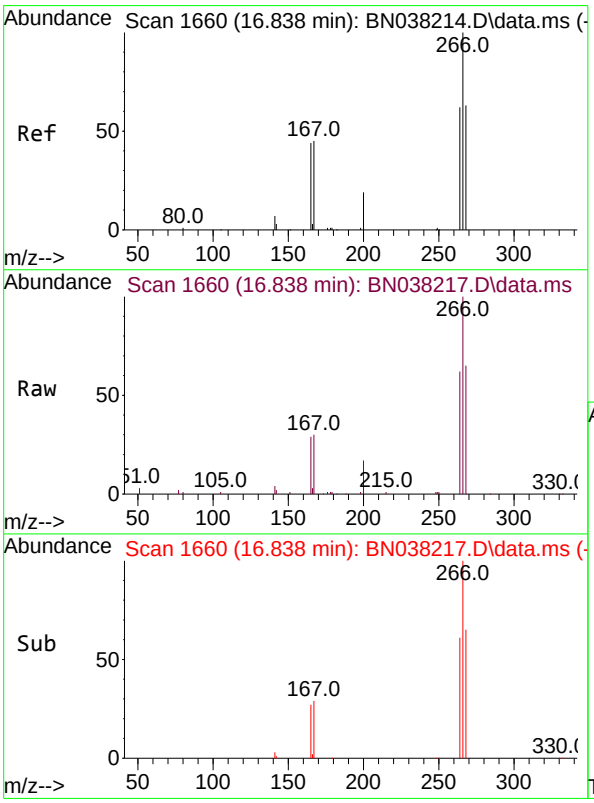
#23
Atrazine
Concen: 3.573 ng
RT: 16.640 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 43154

Ion	Ratio	Lower	Upper
200	100		
173	33.1	21.0	31.6#
215	42.9	37.8	56.8

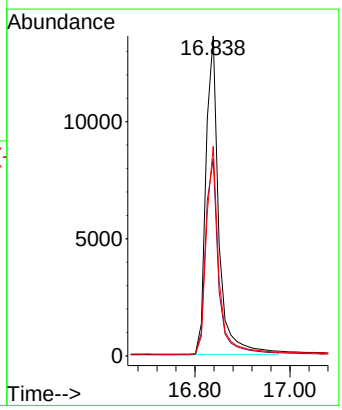


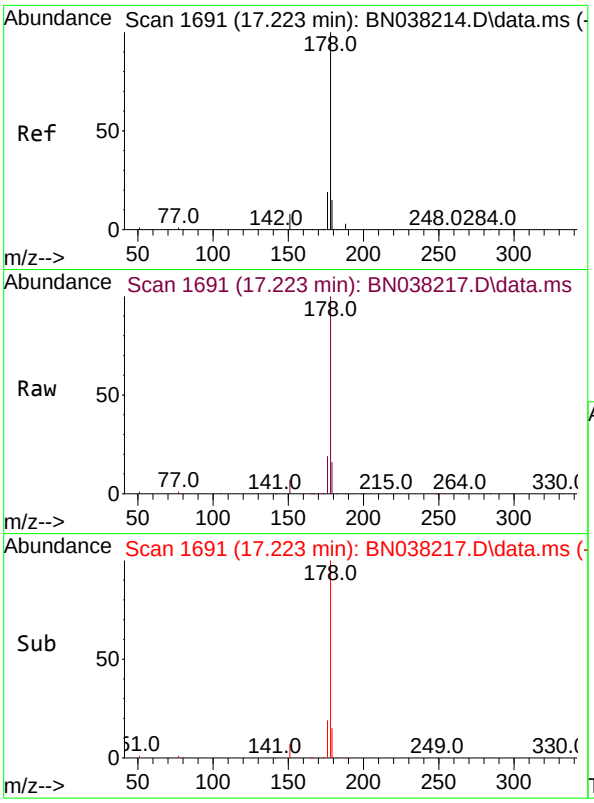


#24
Pentachlorophenol
Concen: 4.002 ng
RT: 16.838 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion:266 Resp: 25503

Ion	Ratio	Lower	Upper
266	100		
264	62.5	48.9	73.3
268	63.8	50.2	75.2



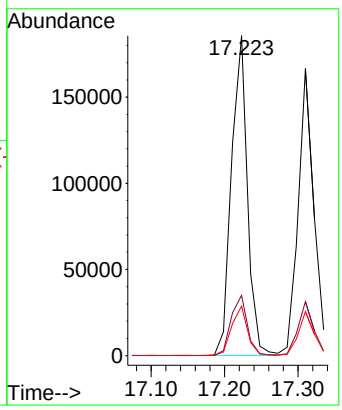


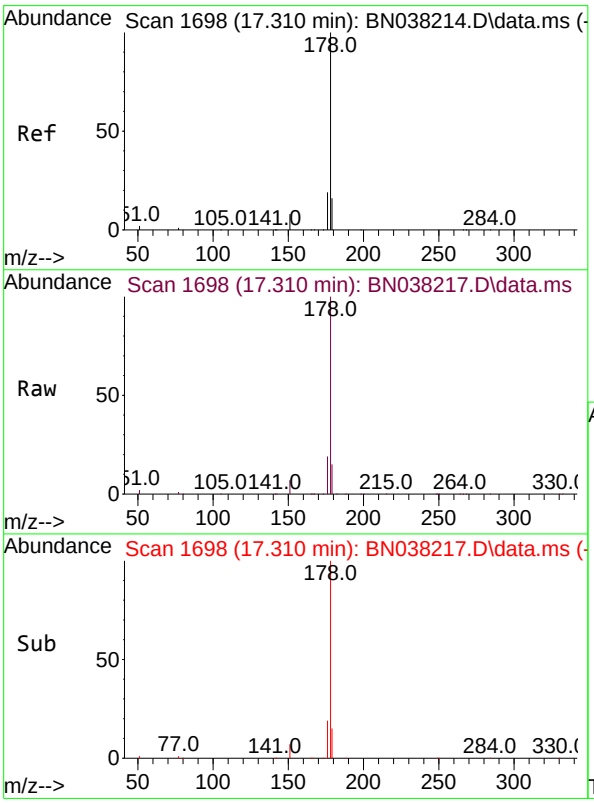
#25
Phenanthrene
Concen: 3.294 ng
RT: 17.223 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 282285

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.3	12.0	18.0

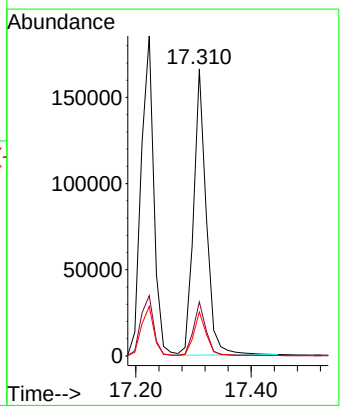


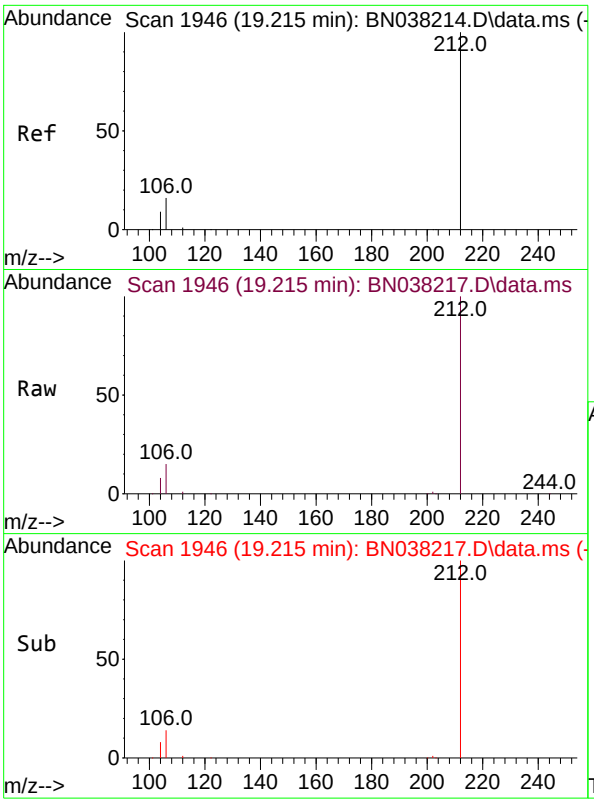


#26
Anthracene
Concen: 3.453 ng
RT: 17.310 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion:178 Resp: 252456

Ion	Ratio	Lower	Upper
178	100		
176	18.7	14.7	22.1
179	15.2	12.3	18.5



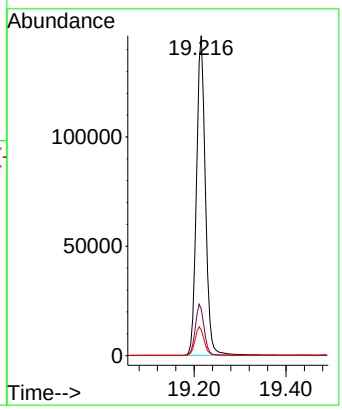


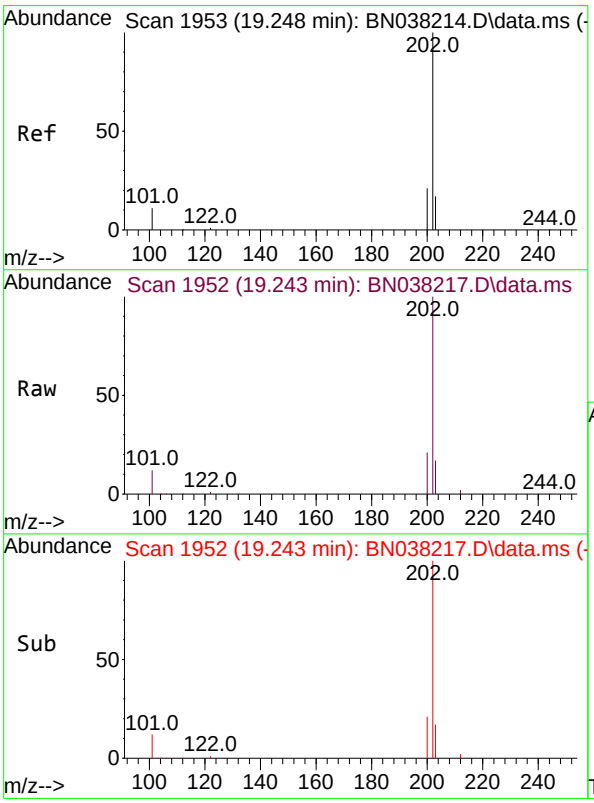
#27
Fluoranthene-d10
Concen: 3.340 ng
RT: 19.215 min Scan# 19
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:212 Resp: 197760

Ion	Ratio	Lower	Upper
212	100		
106	16.0	12.7	19.1
104	9.0	7.3	10.9

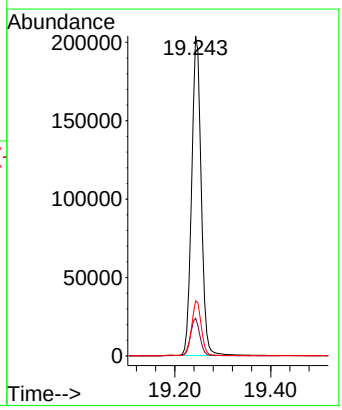


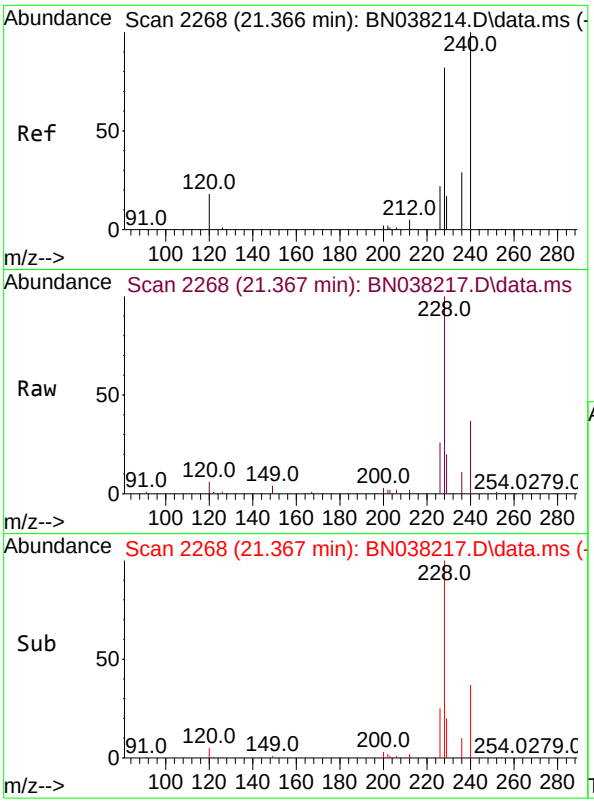


#28
Fluoranthene
Concen: 3.387 ng
RT: 19.243 min Scan# 1952
Delta R.T. -0.004 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion:202 Resp: 279719

Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.8	14.6
203	17.3	13.6	20.4



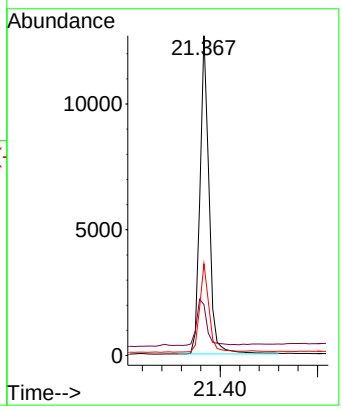


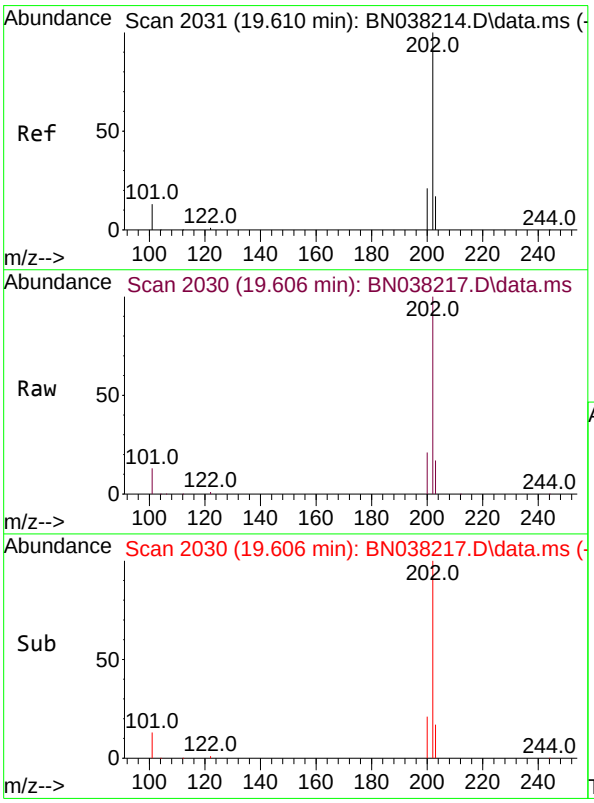
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.367 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:240 Resp: 16427

Ion	Ratio	Lower	Upper
240	100		
120	15.9	18.1	27.1#
236	28.7	24.2	36.4

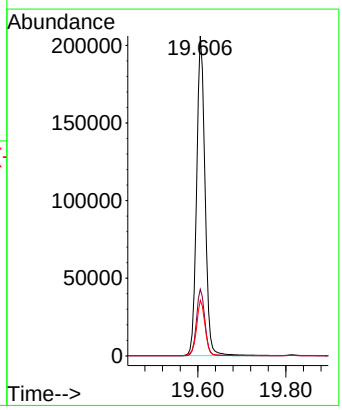


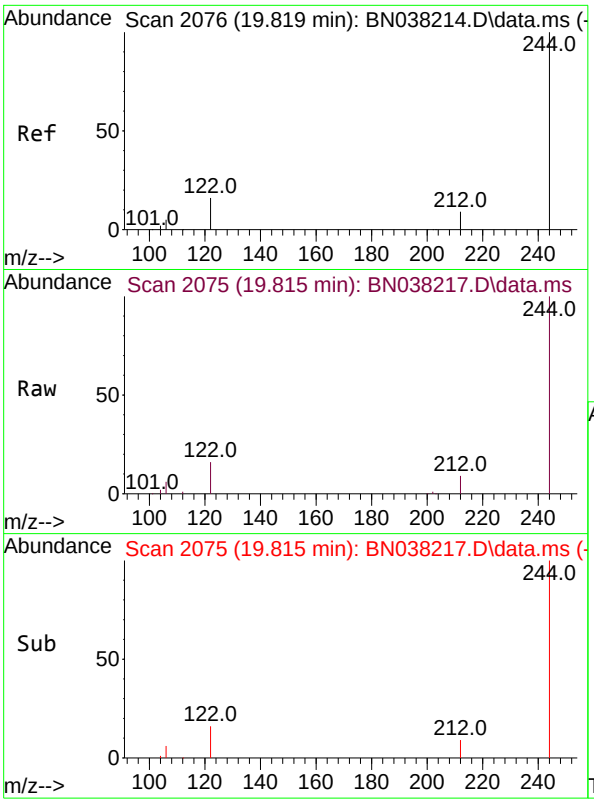


#30
Pyrene
Concen: 3.326 ng
RT: 19.606 min Scan# 2030
Delta R.T. -0.004 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion:202 Resp: 272924

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.8	25.2
203	17.8	14.4	21.6



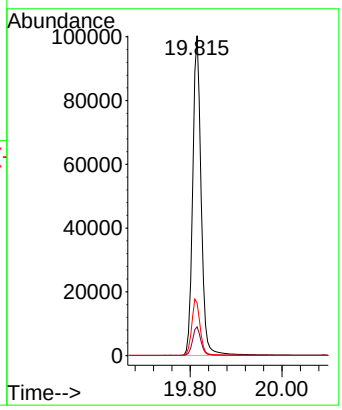


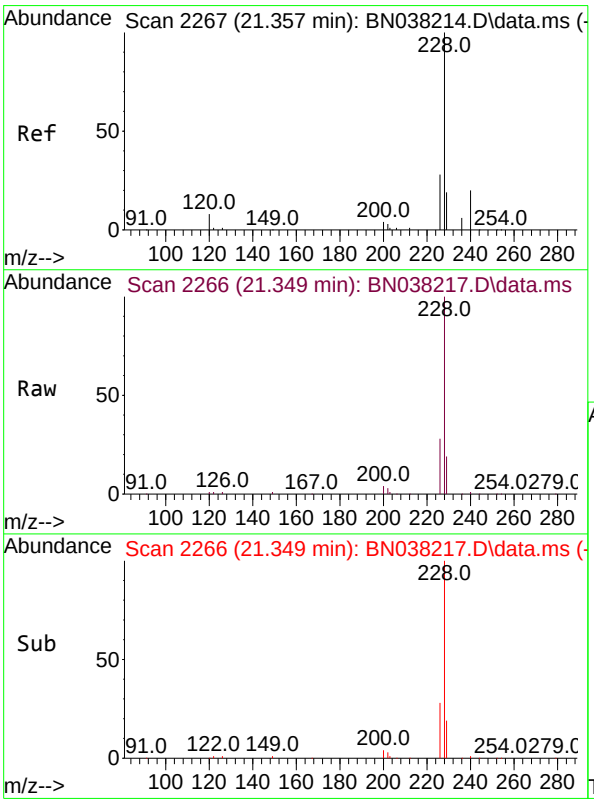
#31
Terphenyl-d14
Concen: 3.368 ng
RT: 19.815 min Scan# 20
Delta R.T. -0.004 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:244 Resp: 127791

Ion	Ratio	Lower	Upper
244	100		
212	9.0	7.7	11.5
122	16.5	13.6	20.4

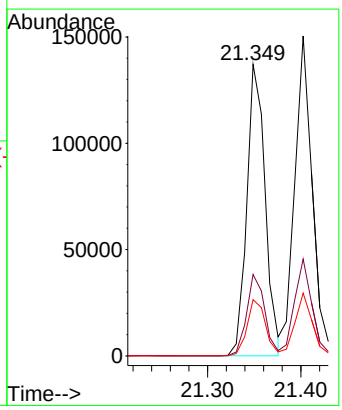


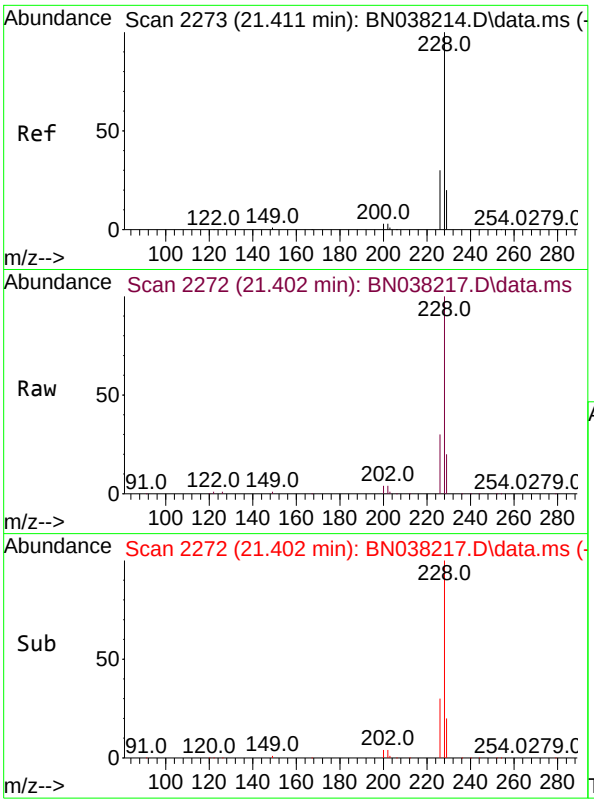


#32
Benzo(a)anthracene
Concen: 3.357 ng
RT: 21.349 min Scan# 2266
Delta R.T. -0.009 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion:228 Resp: 186737

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.6	33.8
229	19.3	15.8	23.8



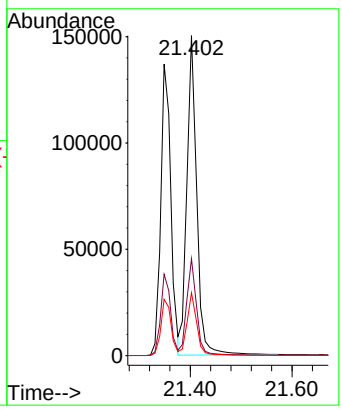


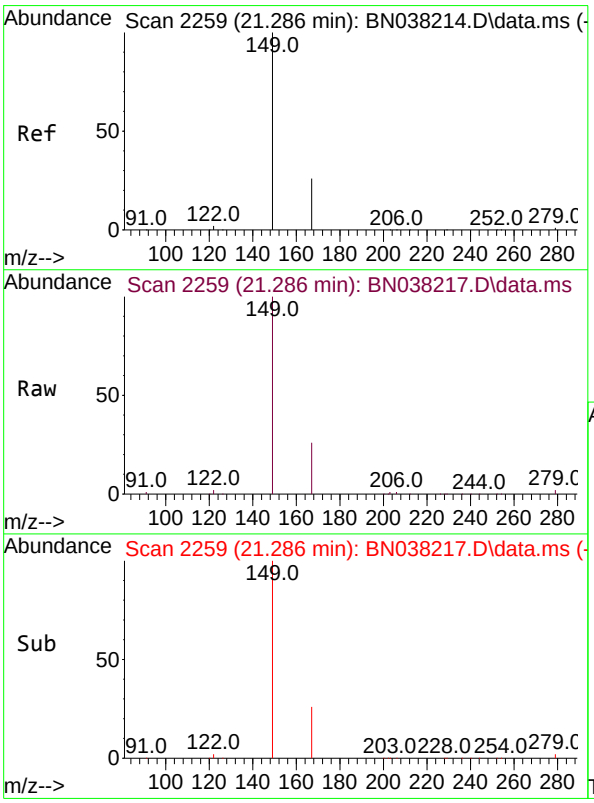
#33
Chrysene
Concen: 3.085 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 202547

Ion	Ratio	Lower	Upper
228	100		
226	30.3	23.8	35.8
229	19.6	16.1	24.1

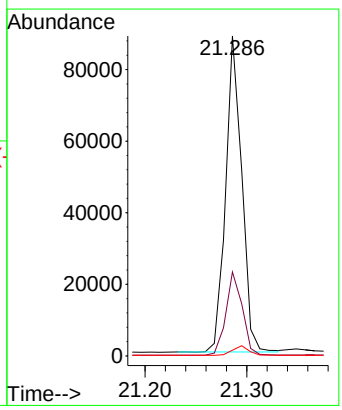


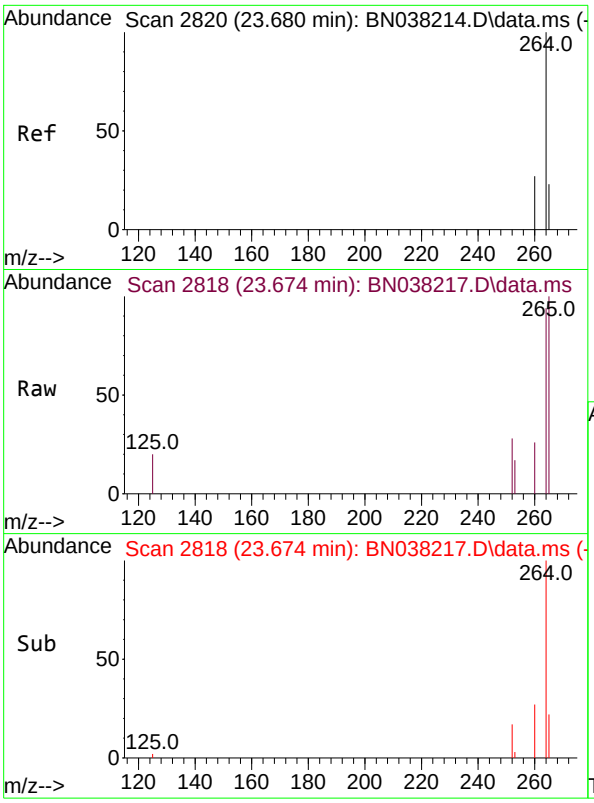


#34
Bis(2-ethylhexyl)phthalate
Concen: 3.194 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion:149 Resp: 97307

Ion	Ratio	Lower	Upper
149	100		
167	26.6	20.7	31.1
279	3.1	2.5	3.7



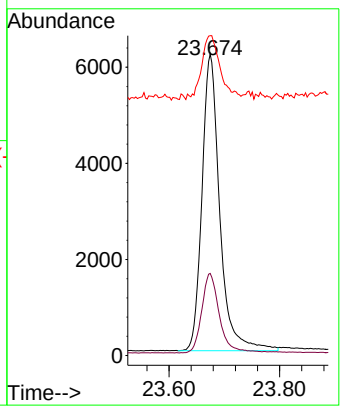


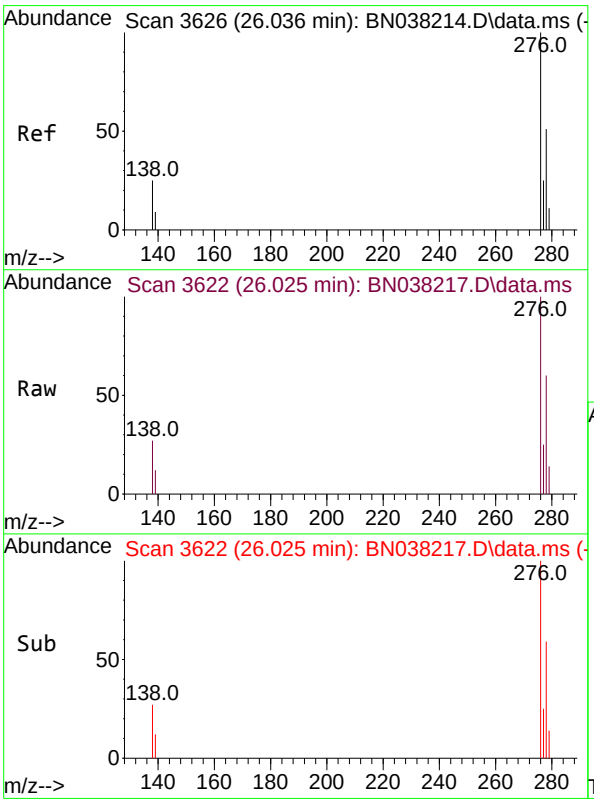
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.674 min Scan# 28
Delta R.T. -0.006 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:264 Resp: 13786

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.7	32.5
265	106.2	98.0	147.0

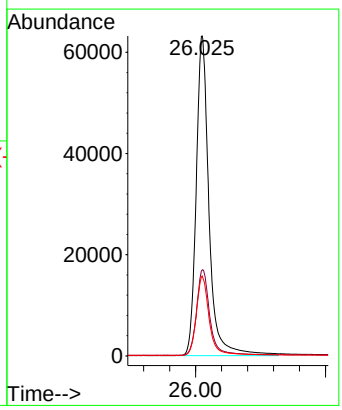


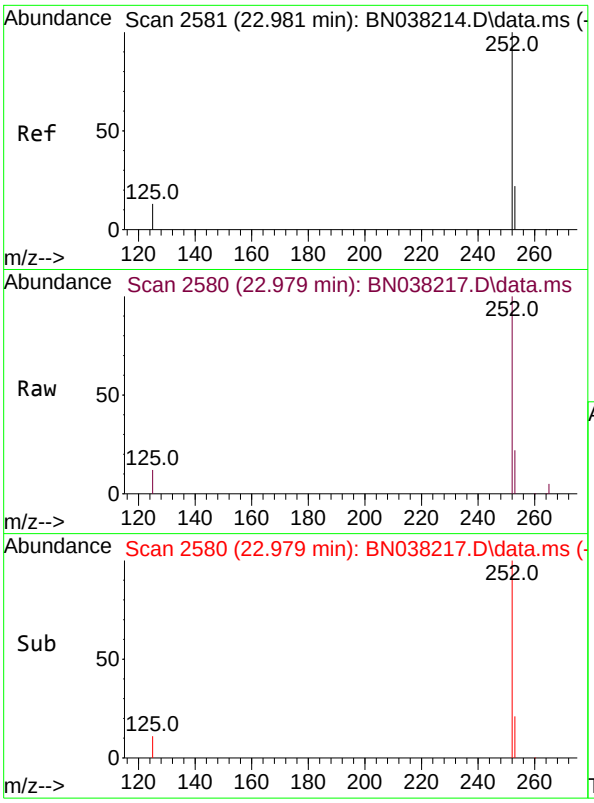


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.393 ng
RT: 26.025 min Scan# 3622
Delta R.T. -0.011 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion:276 Resp: 216471

Ion	Ratio	Lower	Upper
276	100		
138	27.7	21.4	32.2
277	24.8	19.1	28.7



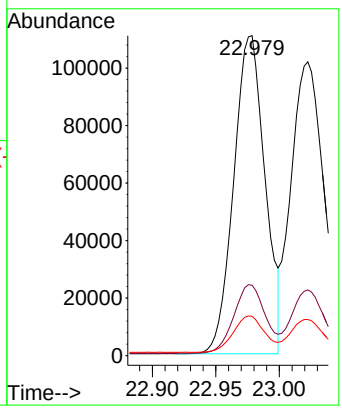


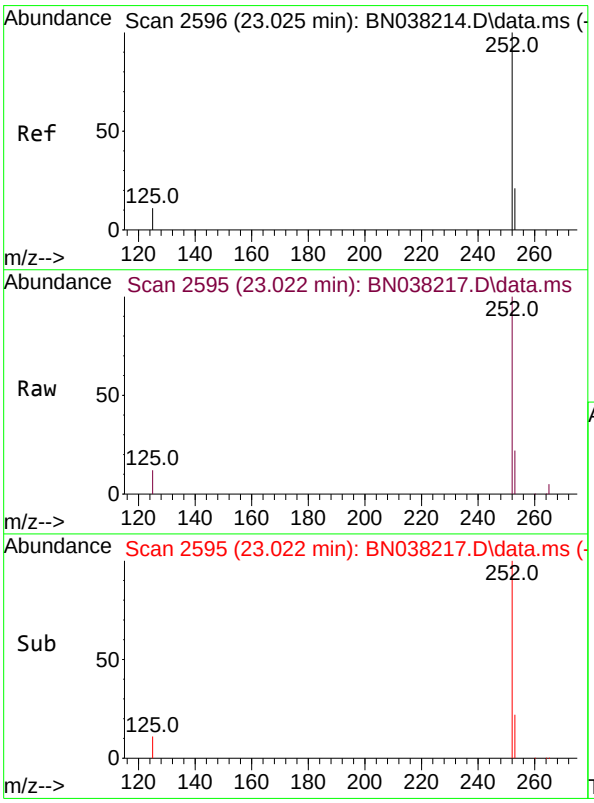
#37
Benzo(b)fluoranthene
Concen: 3.354 ng
RT: 22.979 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 189788

Ion	Ratio	Lower	Upper
252	100		
253	22.0	22.2	33.4#
125	12.3	18.0	27.0#

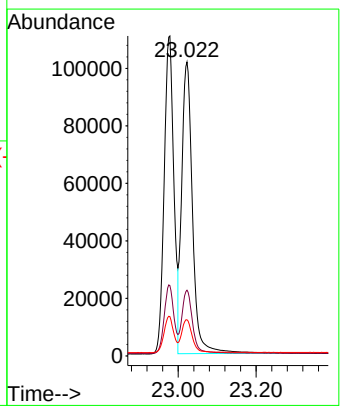


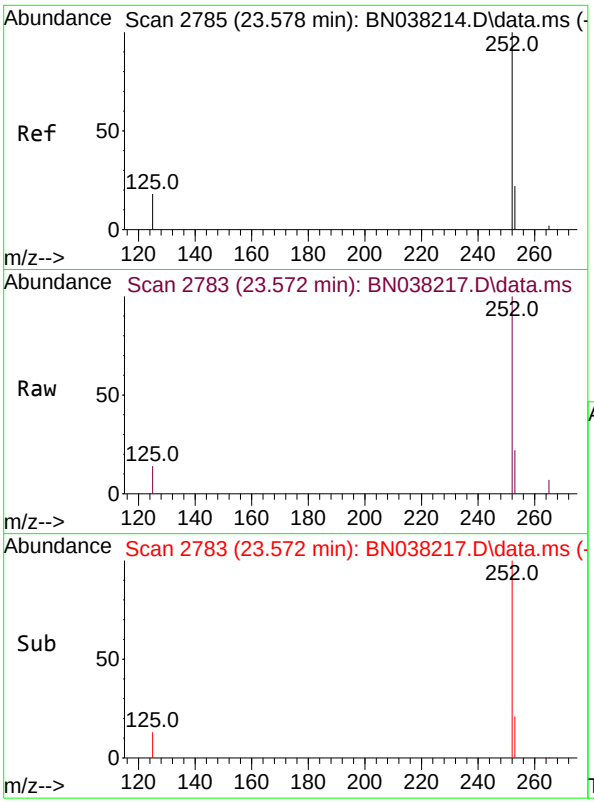


#38
Benzo(k)fluoranthene
Concen: 3.329 ng
RT: 23.022 min Scan# 2595
Delta R.T. -0.003 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion:252 Resp: 195835

Ion	Ratio	Lower	Upper
252	100		
253	22.4	22.4	33.6#
125	12.3	17.5	26.3#



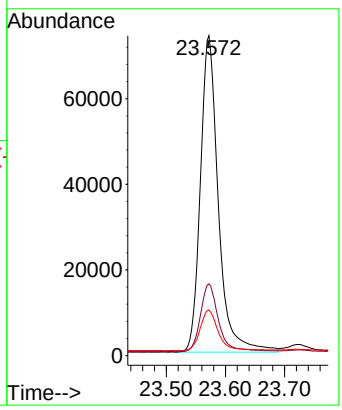


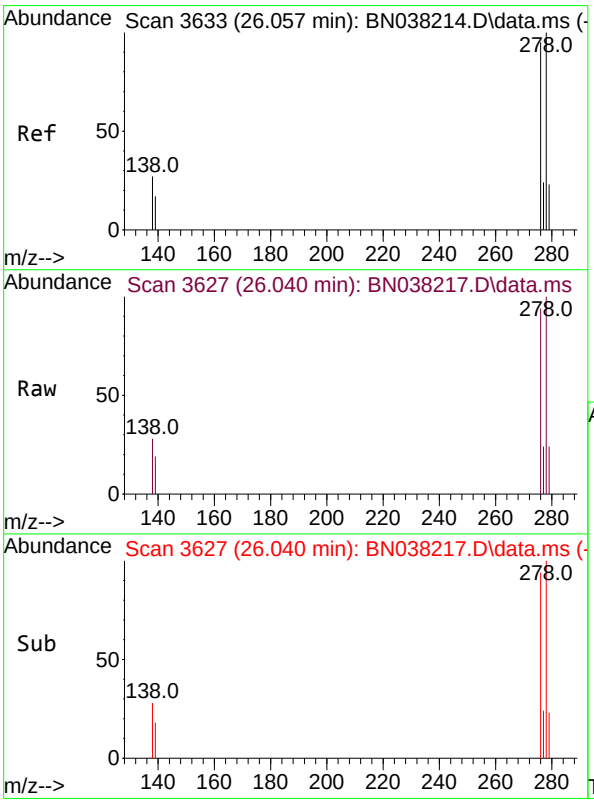
#39
Benzo(a)pyrene
Concen: 3.289 ng
RT: 23.572 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 156001

Ion	Ratio	Lower	Upper
252	100		
253	22.4	25.3	37.9#
125	14.3	25.2	37.8#

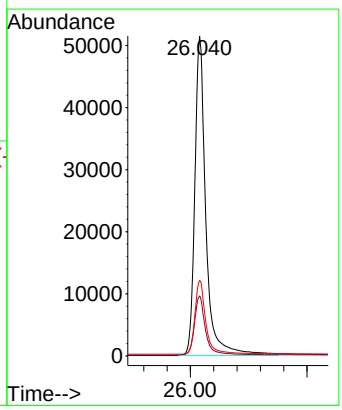


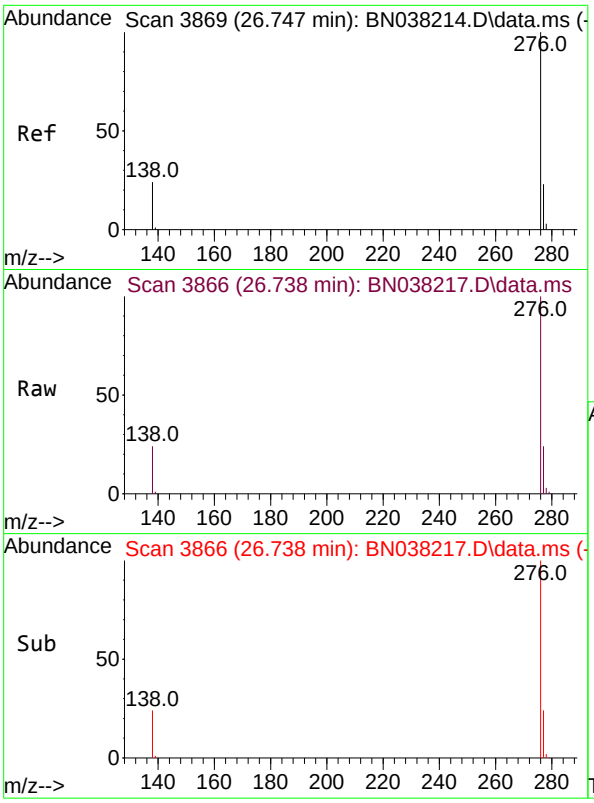


#40
Dibenzo(a,h)anthracene
Concen: 3.518 ng
RT: 26.040 min Scan# 3627
Delta R.T. -0.017 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Tgt Ion:278 Resp: 169926

Ion	Ratio	Lower	Upper
278	100		
139	18.7	17.6	26.4
279	23.5	24.2	36.4#



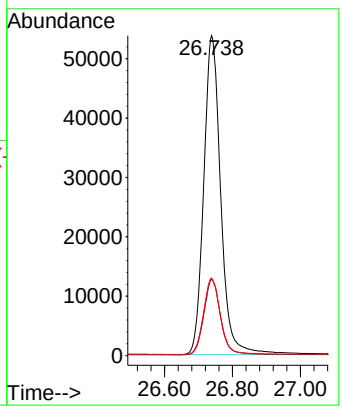


#41
Benzo(g,h,i)perylene
Concen: 3.242 ng
RT: 26.738 min Scan# 3
Delta R.T. -0.009 min
Lab File: BN038217.D
Acq: 26 Nov 2025 23:37

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 186060

Ion	Ratio	Lower	Upper
276	100		
277	23.8	20.2	30.2
138	24.2	20.8	31.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038218.D
Acq On : 27 Nov 2025 00:13
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Nov 28 20:56:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.768	152	9425	0.400	ng		0.00
7) Naphthalene-d8	10.573	136	28584	0.400	ng		0.00
13) Acenaphthene-d10	14.430	164	16460	0.400	ng		0.00
19) Phenanthrene-d10	17.173	188	28173	0.400	ng		#-0.01
29) Chrysene-d12	21.366	240	17259	0.400	ng		# 0.00
35) Perylene-d12	23.677	264	14227	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.341	112	105128	4.772	ng		0.00
5) Phenol-d6	6.930	99	140266	5.096	ng		0.00
8) Nitrobenzene-d5	8.918	82	111113	4.861	ng		0.00
11) 2-Methylnaphthalene-d10	12.167	152	206762	5.096	ng		0.00
14) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng		
15) 2-Fluorobiphenyl	13.051	172	300119	4.720	ng		0.00
27) Fluoranthene-d10	19.215	212	316915	5.186	ng		0.00
31) Terphenyl-d14	19.815	244	204734	5.136	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.247	88	44504	4.482	ng		100
3) n-Nitrosodimethylamine	3.550	42	60047	4.904	ng	#	95
6) bis(2-Chloroethyl)ether	7.183	93	128213	4.866	ng		98
9) Naphthalene	10.616	128	386463	4.869	ng		99
10) Hexachlorobutadiene	10.915	225	63118	4.675	ng	#	99
12) 2-Methylnaphthalene	12.238	142	264783	5.069	ng		99
16) Acenaphthylene	14.142	152	386815	5.255	ng		100
17) Acenaphthene	14.494	154	259349	5.054	ng		97
18) Fluorene	15.478	166	350358	5.275	ng		99
20) 4,6-Dinitro-2-methylph...	15.547	198	24887	4.740	ng	#	13
21) 4-Bromophenyl-phenylether	16.379	248	98459	5.044	ng	#	89
22) Hexachlorobenzene	16.491	284	108089	4.503	ng		100
23) Atrazine	16.640	200	70335	5.642	ng	#	91
25) Phenanthrene	17.223	178	443212	5.011	ng		99
26) Anthracene	17.310	178	410739	5.443	ng		99
28) Fluoranthene	19.243	202	445842	5.231	ng		99
30) Pyrene	19.606	202	432809	5.021	ng		100
32) Benzo(a)anthracene	21.348	228	303930	5.200	ng		99
33) Chrysene	21.402	228	322253	4.672	ng		98
34) Bis(2-ethylhexyl)phtha...	21.286	149	160858	5.026	ng		98
36) Indeno(1,2,3-cd)pyrene	26.022	276	348640	5.295	ng		98
37) Benzo(b)fluoranthene	22.975	252	300462	5.145	ng	#	84
38) Benzo(k)fluoranthene	23.022	252	309850	5.104	ng	#	84
39) Benzo(a)pyrene	23.575	252	252042	5.149	ng	#	75
40) Dibenzo(a,h)anthracene	26.042	278	272232	5.462	ng	#	90
41) Benzo(g,h,i)perylene	26.741	276	296912	5.013	ng		96

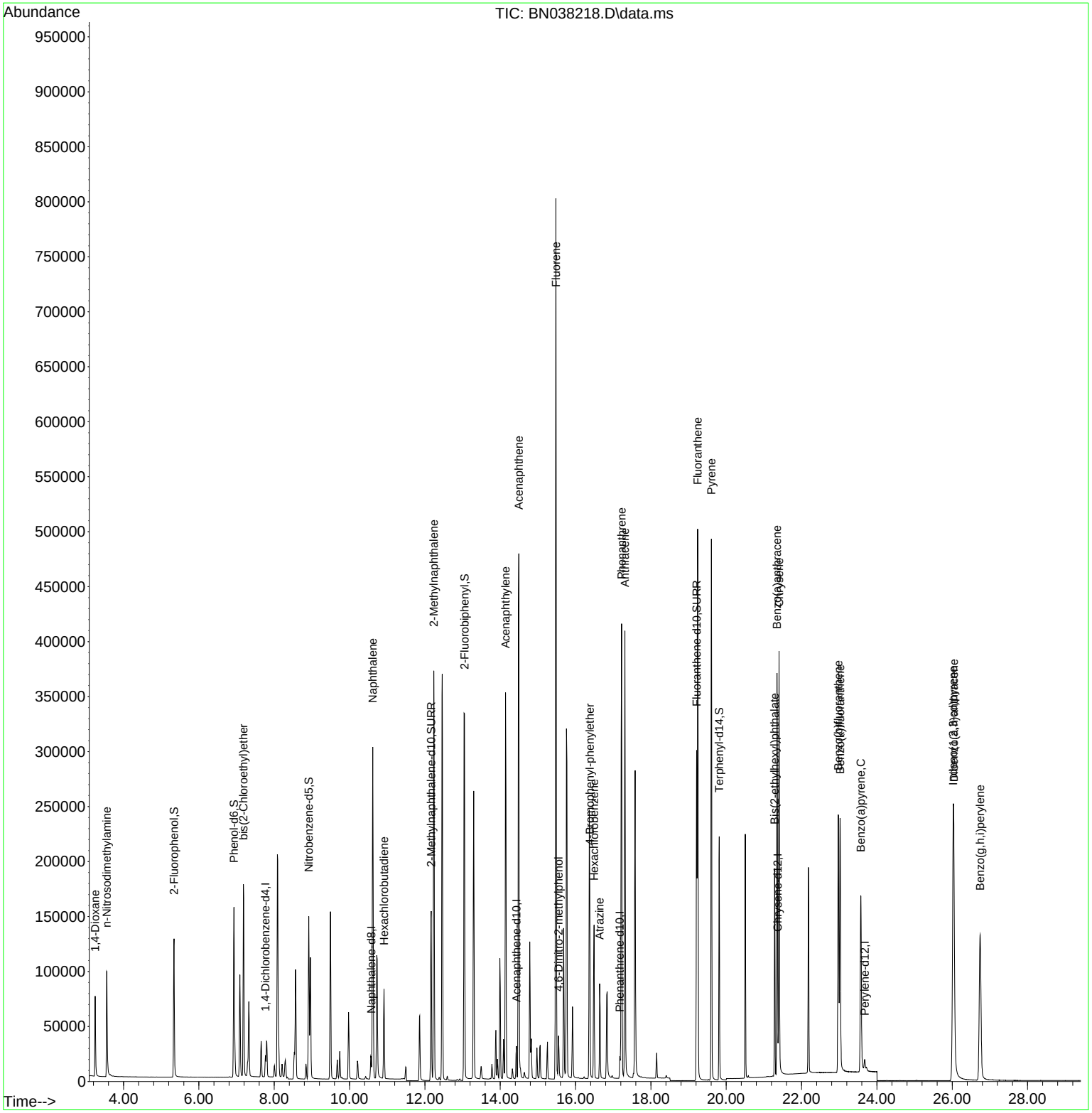
(#) = qualifier out of range (m) = manual integration (+) = signals summed

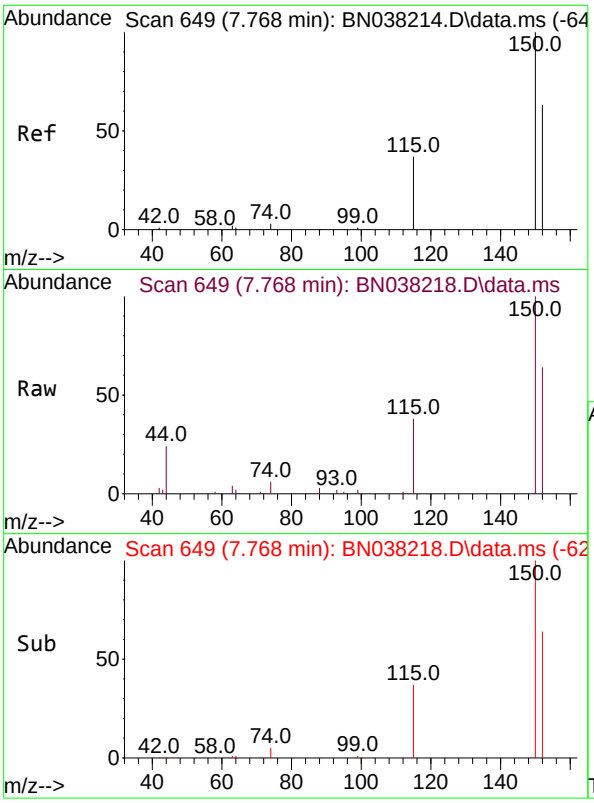
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038218.D
Acq On : 27 Nov 2025 00:13
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 18 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Nov 28 20:56:11 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 2025
Response via : Initial Calibration



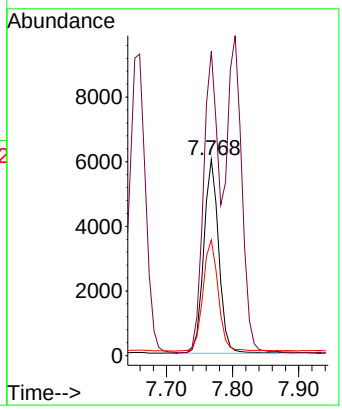


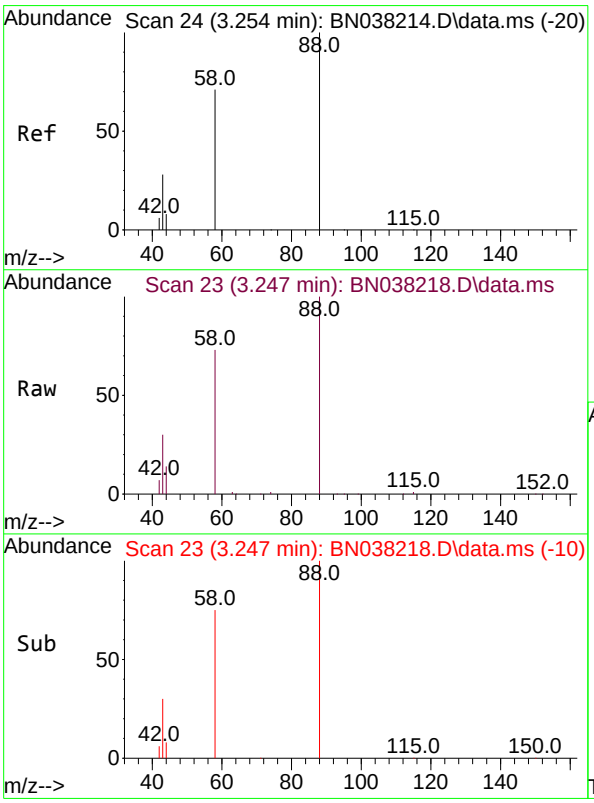
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.768 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 9425

Ion	Ratio	Lower	Upper
152	100		
150	155.1	125.3	187.9
115	58.9	49.0	73.4

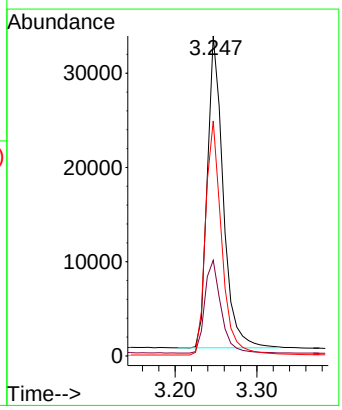


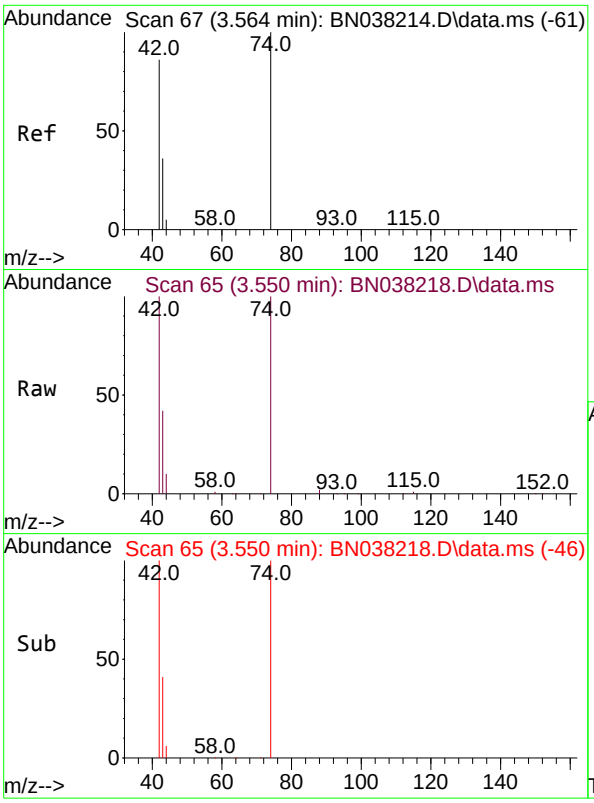


#2
1,4-Dioxane
Concen: 4.482 ng
RT: 3.247 min Scan# 23
Delta R.T. -0.007 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion: 88 Resp: 44504

Ion	Ratio	Lower	Upper
88	100		
43	30.5	24.8	37.2
58	76.3	61.1	91.7



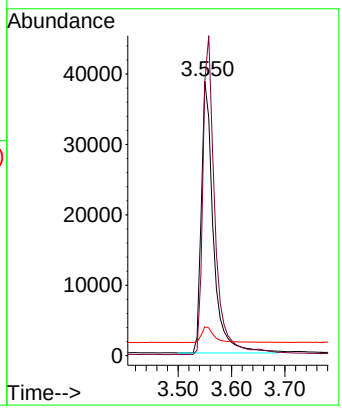


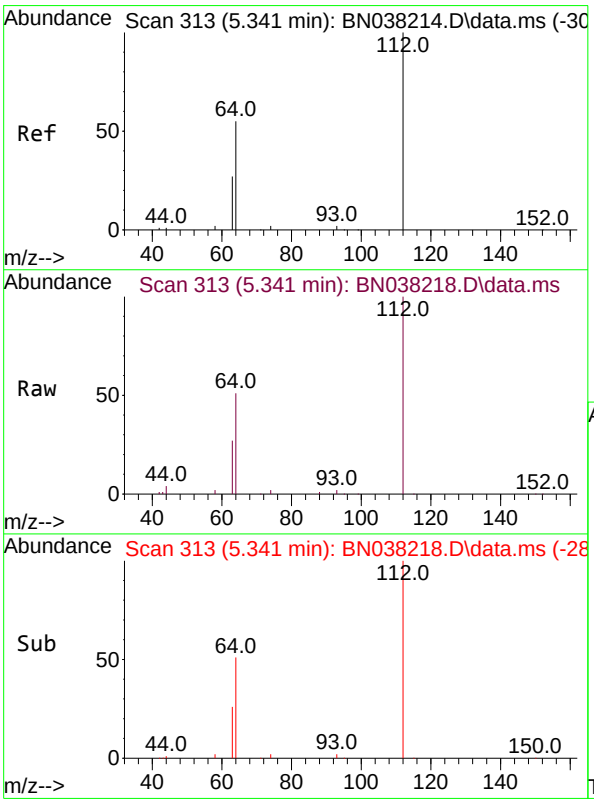
#3
n-Nitrosodimethylamine
Concen: 4.904 ng
RT: 3.550 min Scan# 6
Delta R.T. -0.014 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 60047

Ion	Ratio	Lower	Upper
42	100		
74	115.5	96.2	144.2
44	6.0	8.0	12.0#

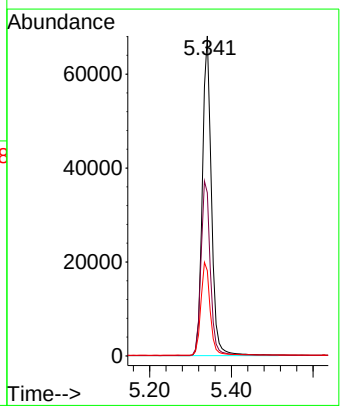


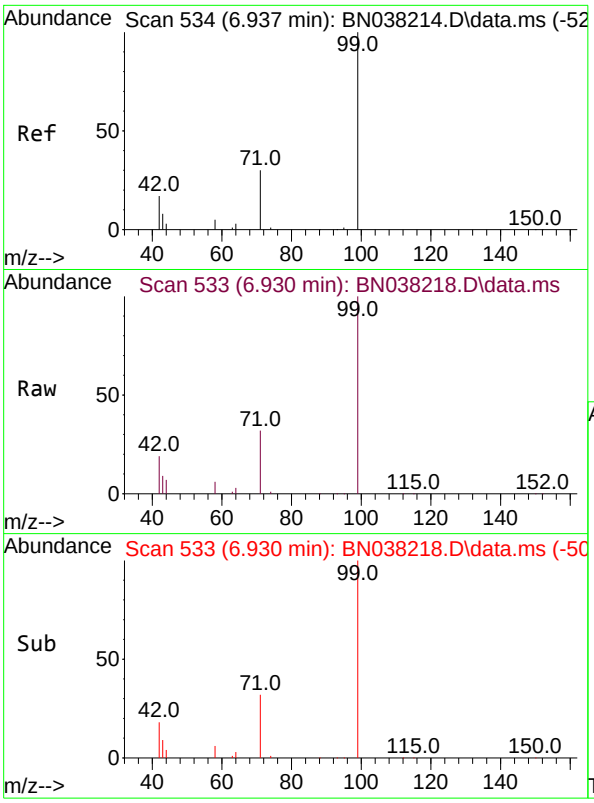


#4
2-Fluorophenol
Concen: 4.772 ng
RT: 5.341 min Scan# 313
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:112 Resp: 105128

Ion	Ratio	Lower	Upper
112	100		
64	56.4	45.0	67.4
63	29.8	23.2	34.8



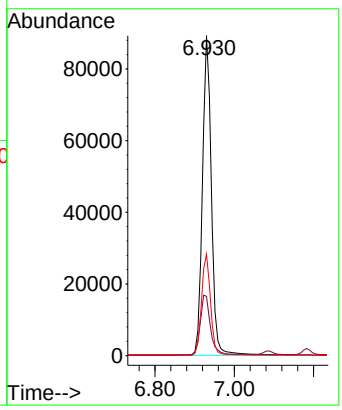


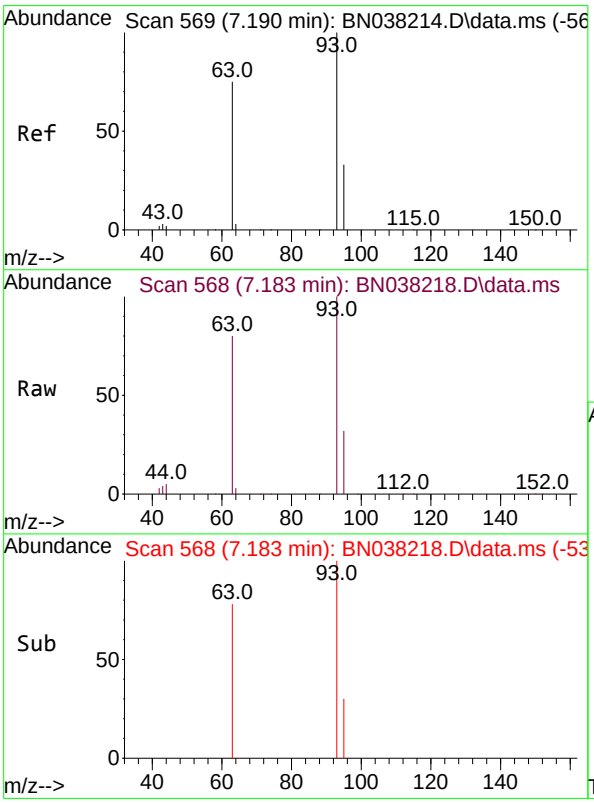
#5
Phenol-d6
Concen: 5.096 ng
RT: 6.930 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 140266

Ion	Ratio	Lower	Upper
99	100		
42	20.9	17.0	25.6
71	32.1	25.4	38.2

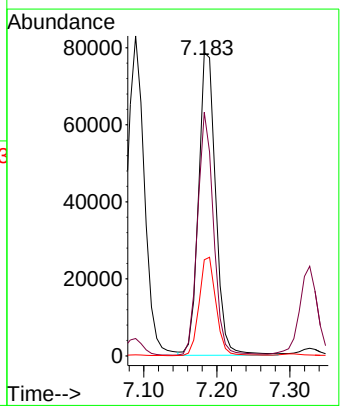


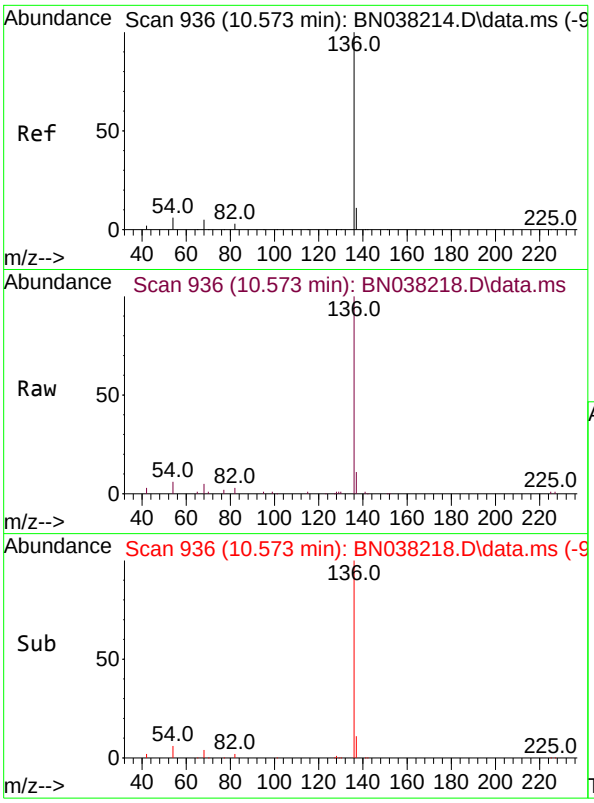


#6
bis(2-Chloroethyl)ether
Concen: 4.866 ng
RT: 7.183 min Scan# 568
Delta R.T. -0.007 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion: 93 Resp: 128213

Ion	Ratio	Lower	Upper
93	100		
63	74.8	58.1	87.1
95	31.9	25.1	37.7



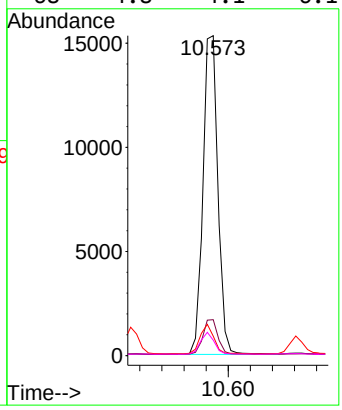


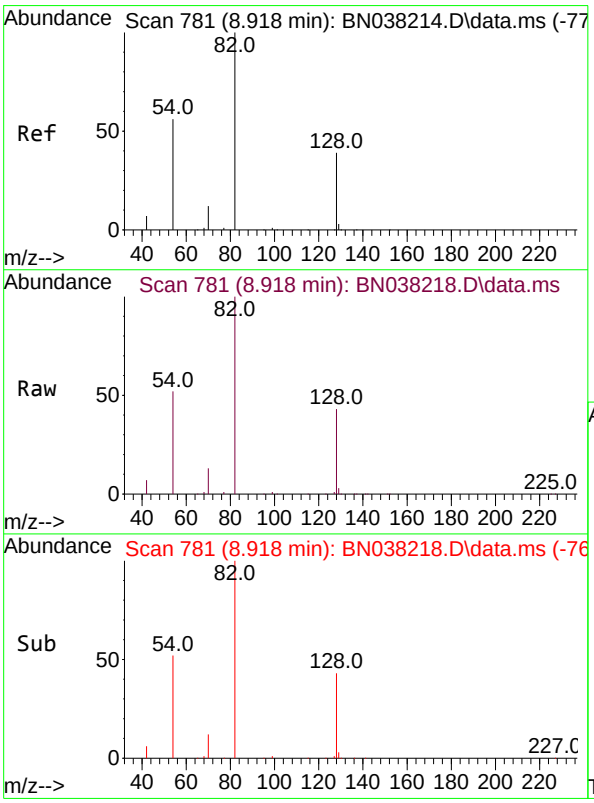
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.573 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 28584

Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.9	13.3
54	6.1	5.4	8.0
68	4.8	4.1	6.1

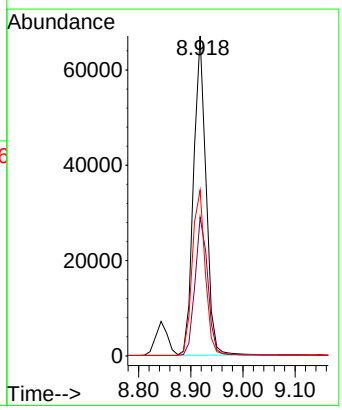


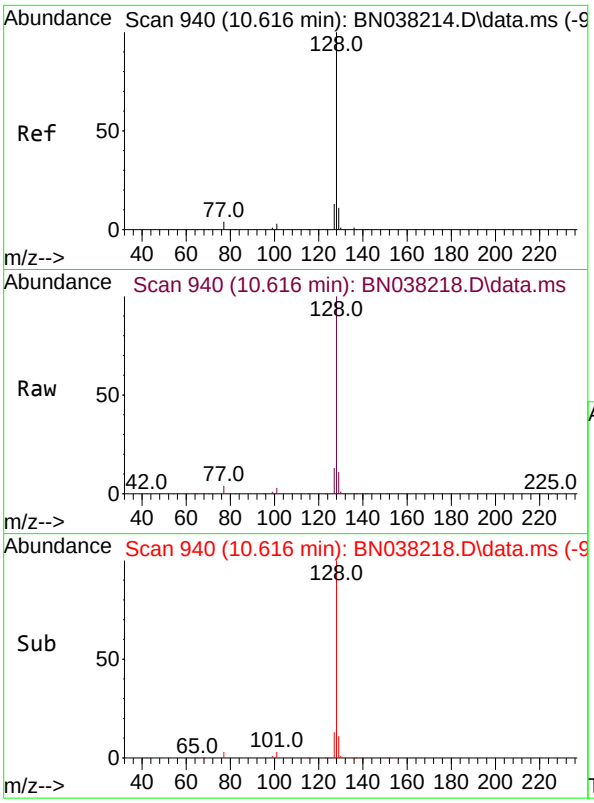


#8
Nitrobenzene-d5
Concen: 4.861 ng
RT: 8.918 min Scan# 781
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion: 82 Resp: 111113

Ion	Ratio	Lower	Upper
82	100		
128	43.4	32.6	48.8
54	51.8	45.4	68.0



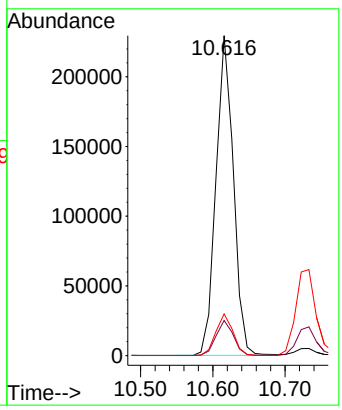


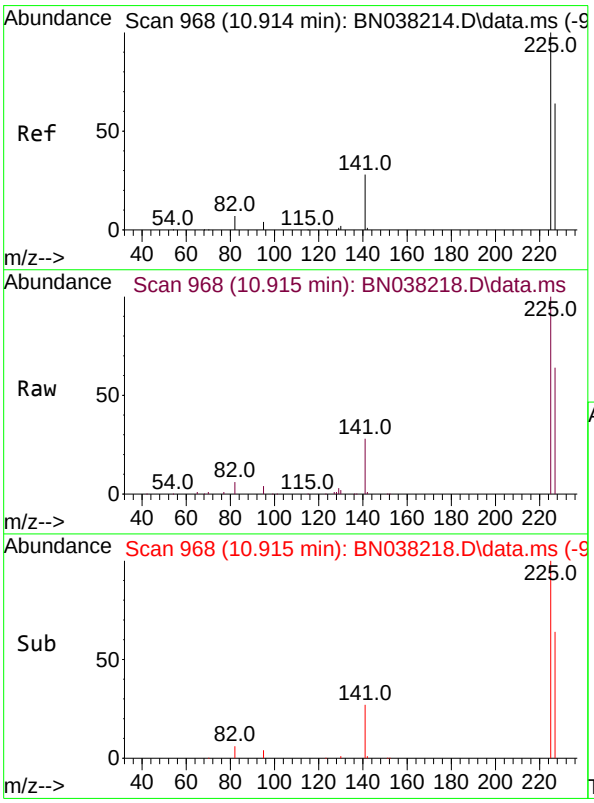
#9
Naphthalene
Concen: 4.869 ng
RT: 10.616 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 386463

Ion	Ratio	Lower	Upper
128	100		
129	11.0	9.1	13.7
127	13.0	10.6	16.0

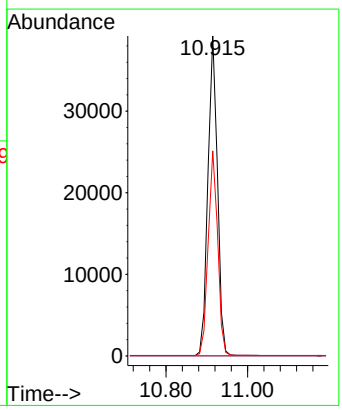


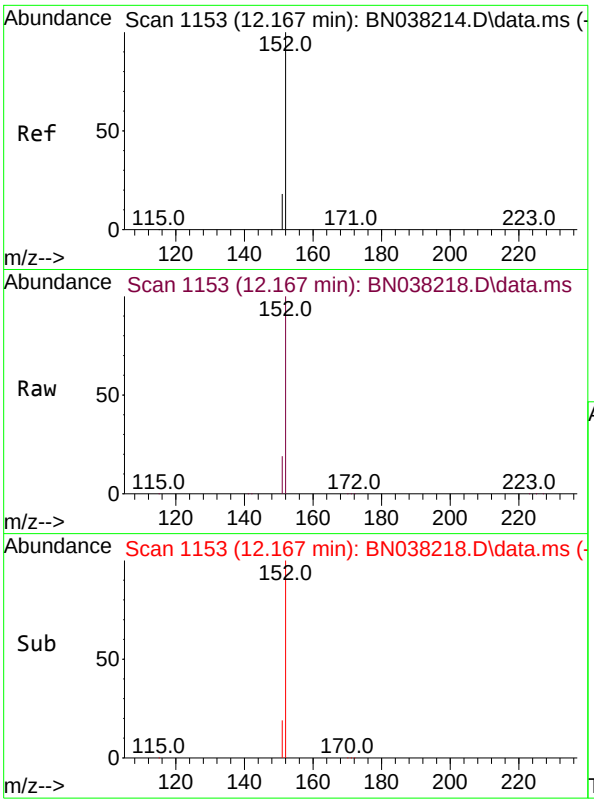


#10
Hexachlorobutadiene
Concen: 4.675 ng
RT: 10.915 min Scan# 968
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:225 Resp: 63118

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	50.5	75.7



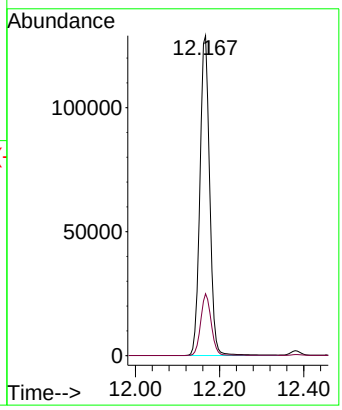


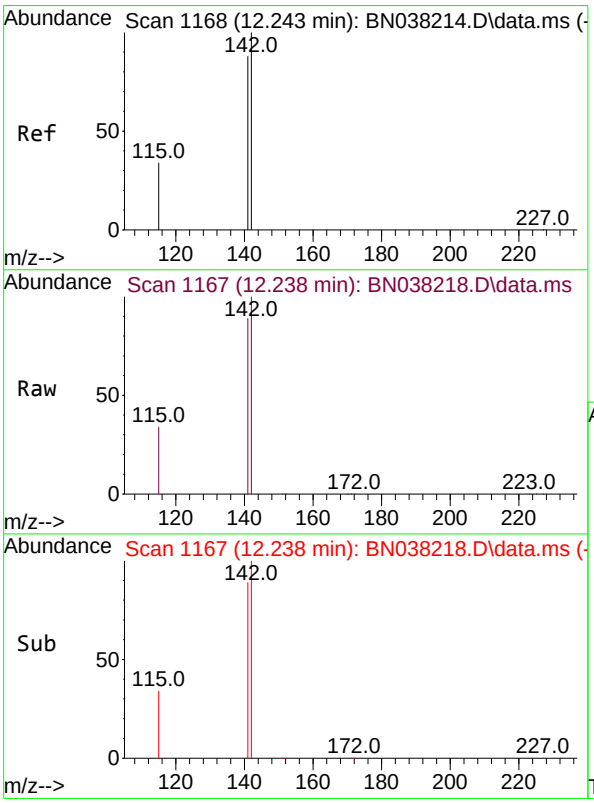
#11
2-Methylnaphthalene-d10
Concen: 5.096 ng
RT: 12.167 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 206762

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.7	25.1

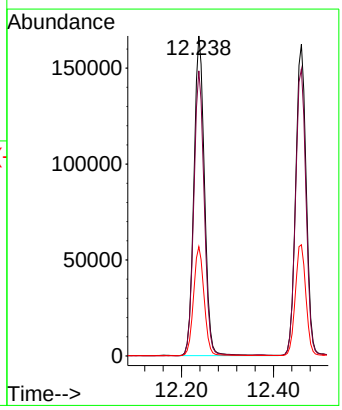


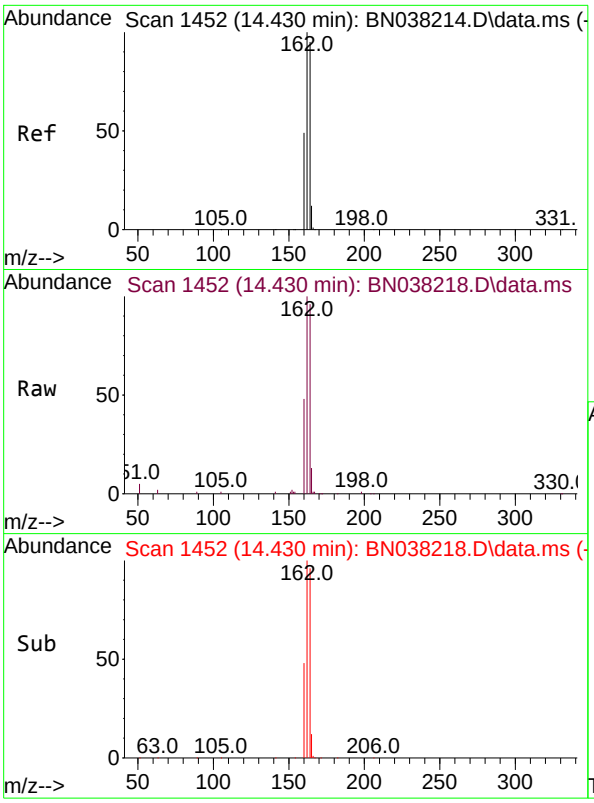


#12
2-Methylnaphthalene
Concen: 5.069 ng
RT: 12.238 min Scan# 1167
Delta R.T. -0.005 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:142 Resp: 264783

Ion	Ratio	Lower	Upper
142	100		
141	89.1	70.9	106.3
115	34.1	27.7	41.5



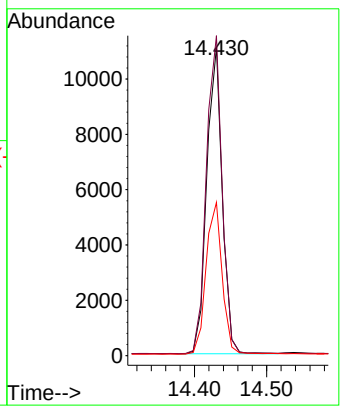


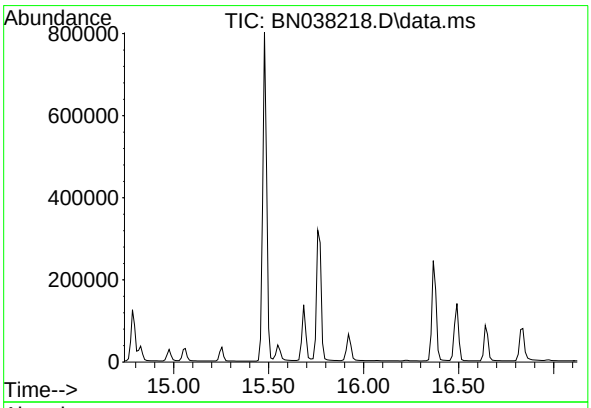
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 16460

Ion	Ratio	Lower	Upper
164	100		
162	103.8	83.8	125.8
160	49.7	41.6	62.4



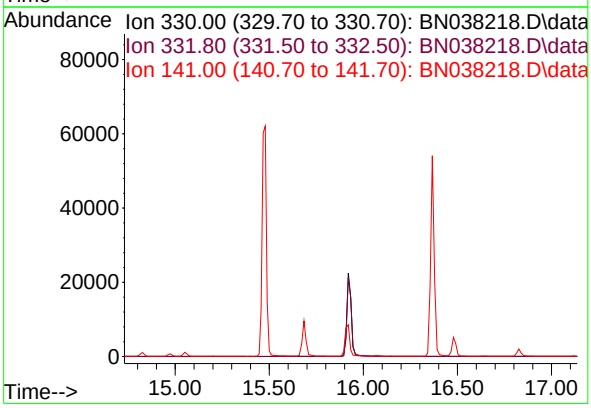


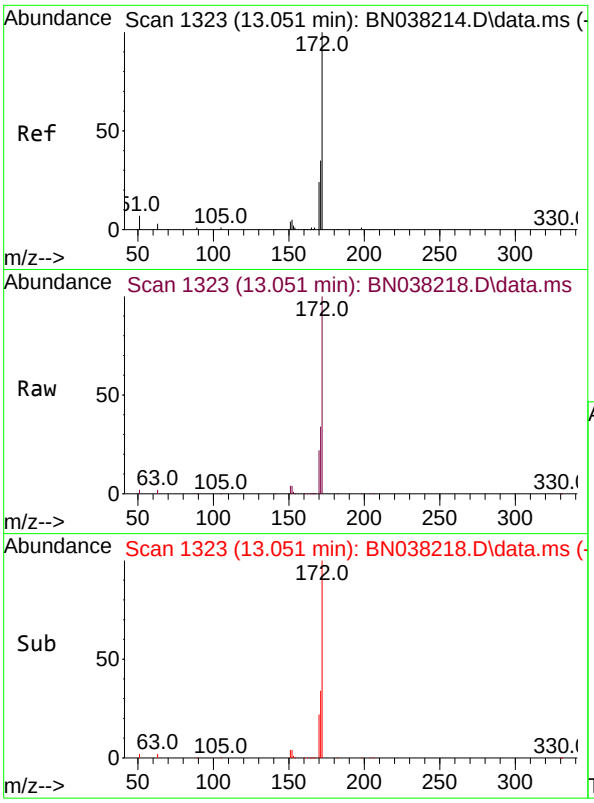
#14
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 15.93 min

Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	97.2
141	41.2



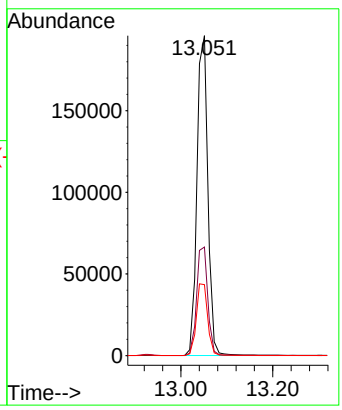


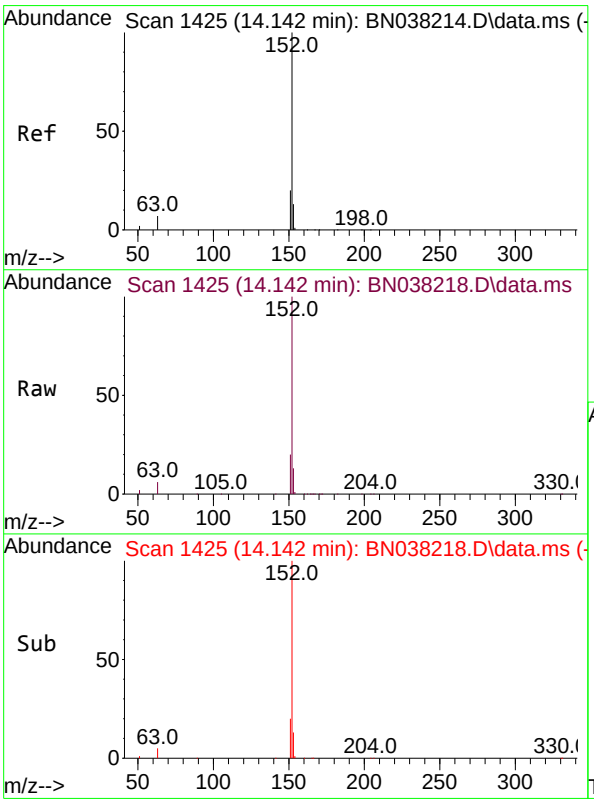
#15
2-Fluorobiphenyl
Concen: 4.720 ng
RT: 13.051 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 300119

Ion	Ratio	Lower	Upper
172	100		
171	33.9	28.1	42.1
170	22.2	19.1	28.7

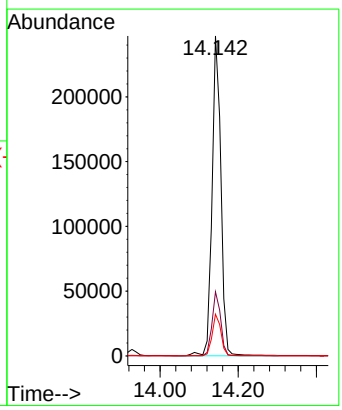


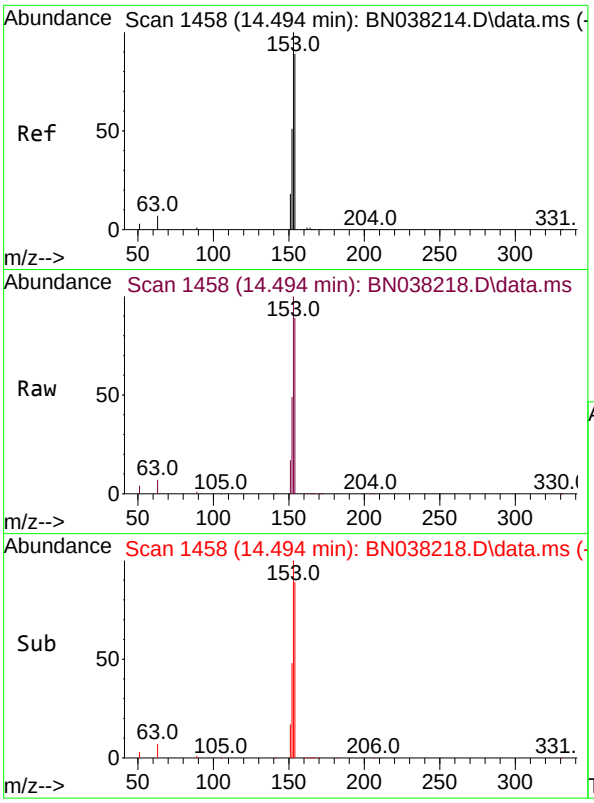


#16
Acenaphthylene
Concen: 5.255 ng
RT: 14.142 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:152 Resp: 386815

Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.6	23.4
153	13.1	10.6	15.8



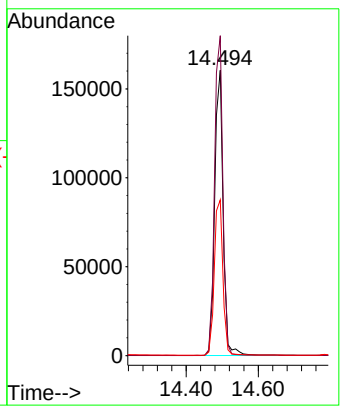


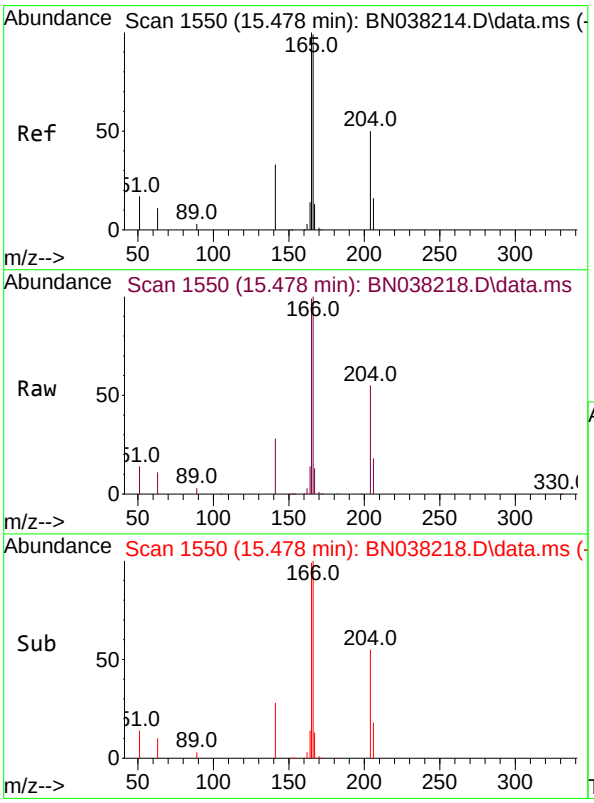
#17
Acenaphthene
Concen: 5.054 ng
RT: 14.494 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 259349

Ion	Ratio	Lower	Upper
154	100		
153	111.4	91.1	136.7
152	56.0	48.2	72.2

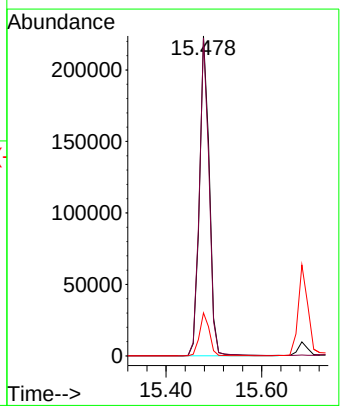


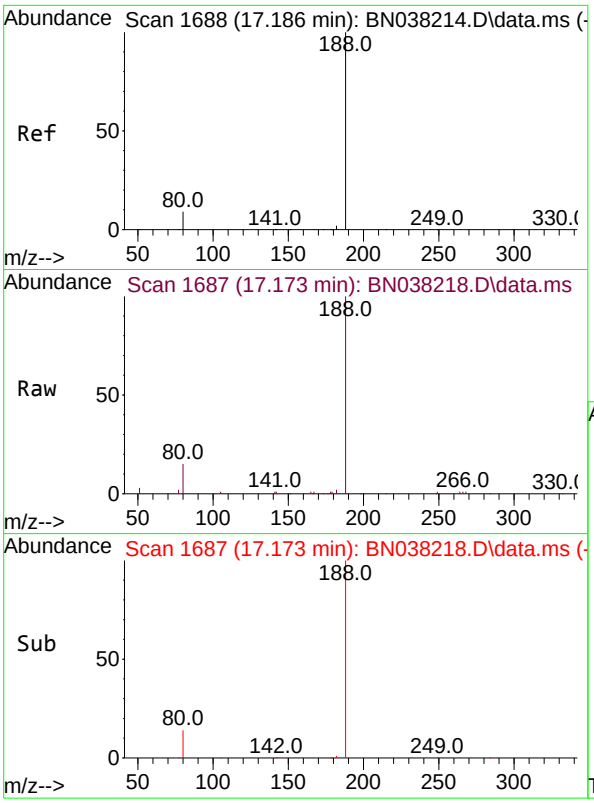


#18
Fluorene
Concen: 5.275 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:166 Resp: 350358

Ion	Ratio	Lower	Upper
166	100		
165	97.2	78.7	118.1
167	13.3	10.9	16.3



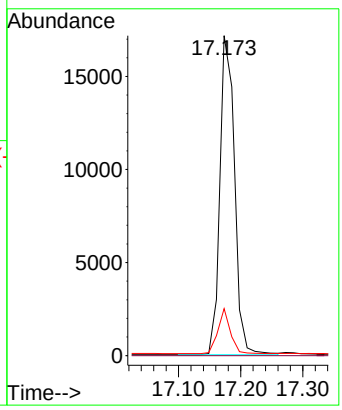


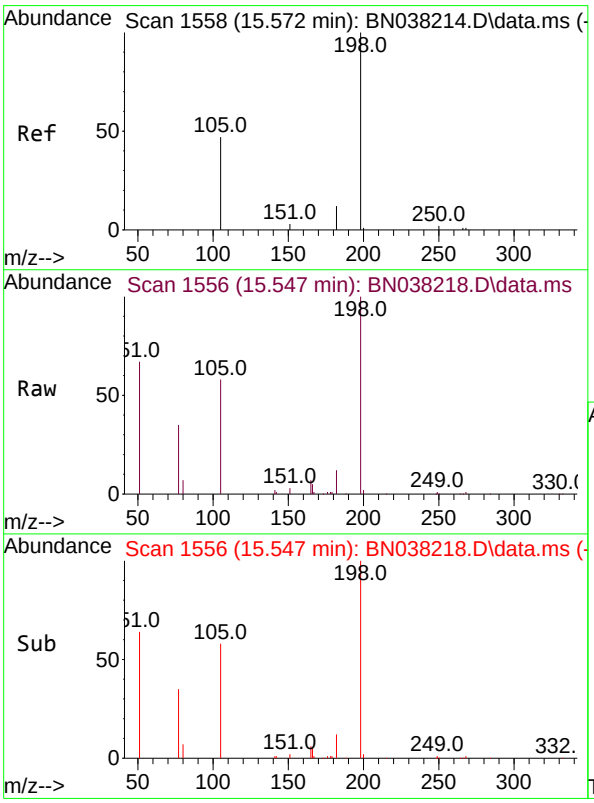
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.173 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 28173

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.7	7.7	11.5#

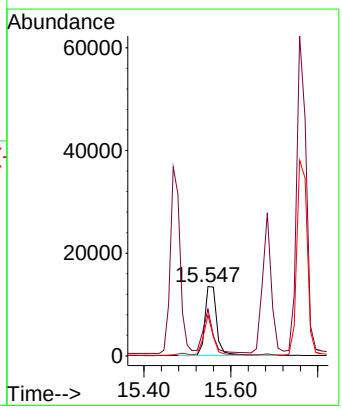


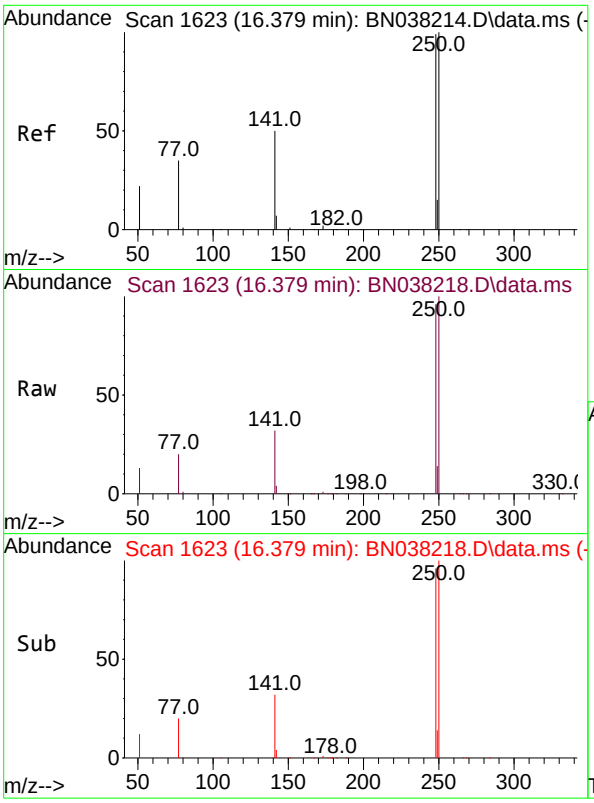


#20
4,6-Dinitro-2-methylphenol
Concen: 4.740 ng
RT: 15.547 min Scan# 1556
Delta R.T. -0.025 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:198 Resp: 24887

Ion	Ratio	Lower	Upper
198	100		
51	67.1	205.1	307.7#
105	58.3	61.6	92.4#



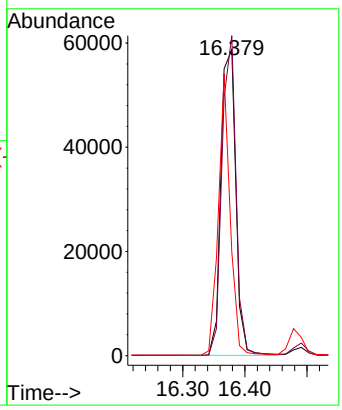


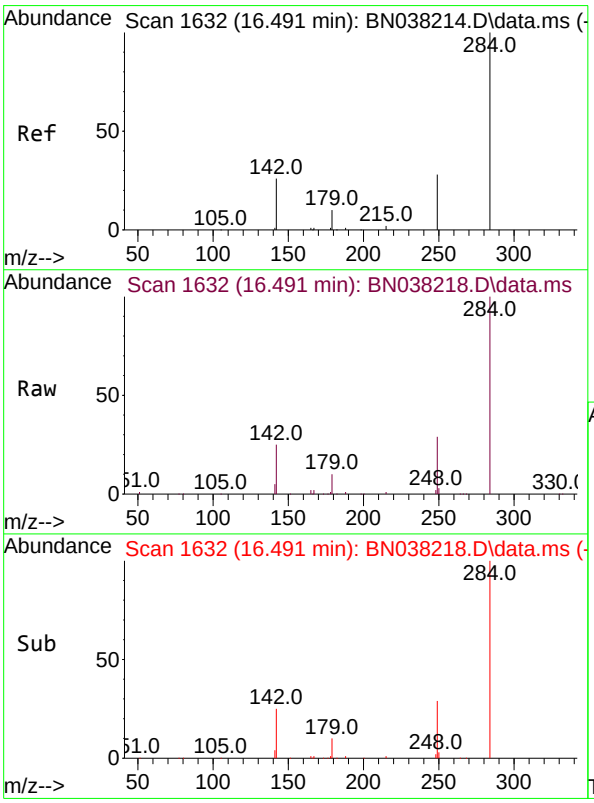
#21
4-Bromophenyl-phenylether
Concen: 5.044 ng
RT: 16.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:248 Resp: 98459

Ion	Ratio	Lower	Upper
248	100		
250	104.5	80.8	121.2
141	33.9	41.0	61.6#

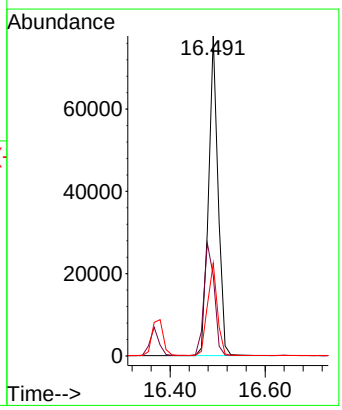


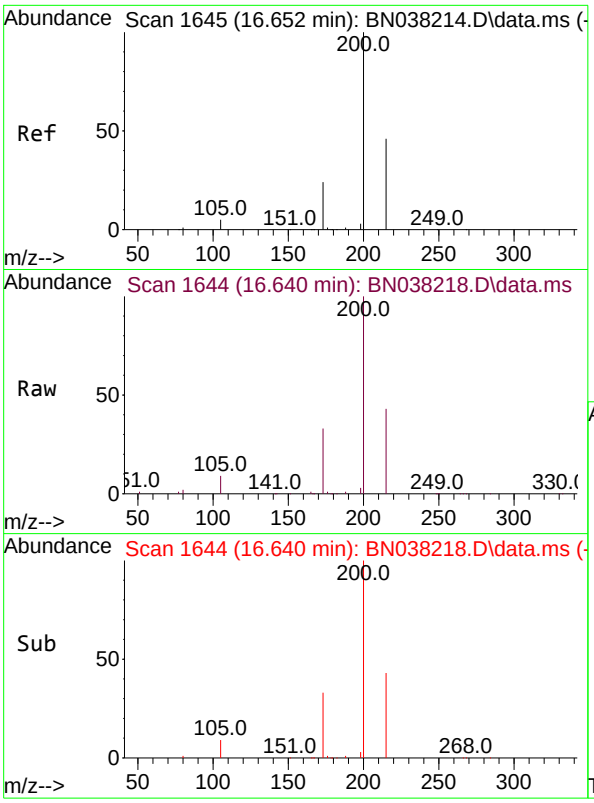


#22
Hexachlorobenzene
Concen: 4.503 ng
RT: 16.491 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:284 Resp: 108089

Ion	Ratio	Lower	Upper
284	100		
142	38.3	30.5	45.7
249	29.7	23.8	35.8



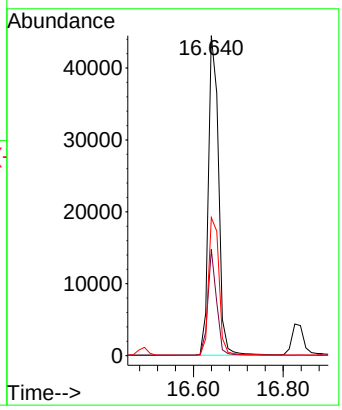


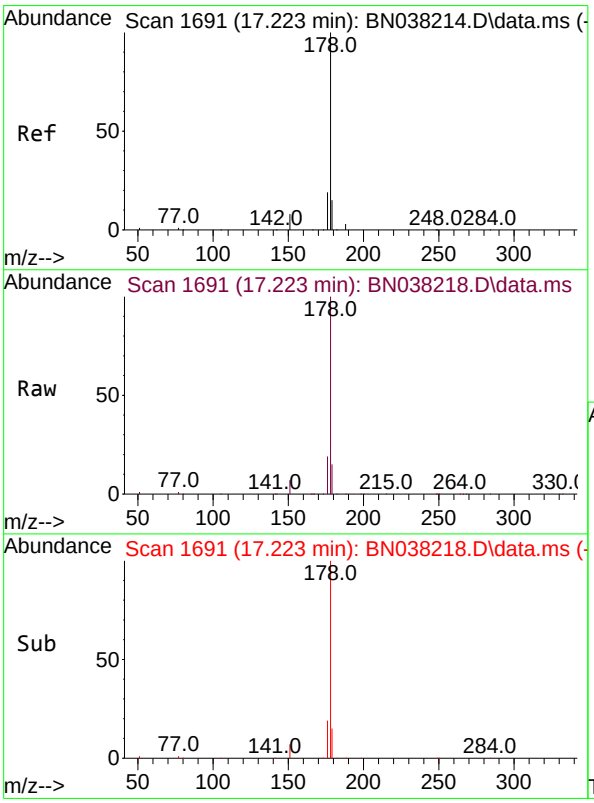
#23
Atrazine
Concen: 5.642 ng
RT: 16.640 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:200 Resp: 70335

Ion	Ratio	Lower	Upper
200	100		
173	33.2	21.0	31.6#
215	43.2	37.8	56.8

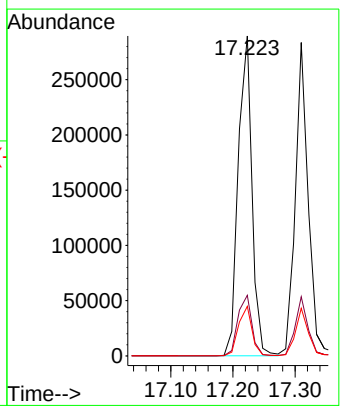


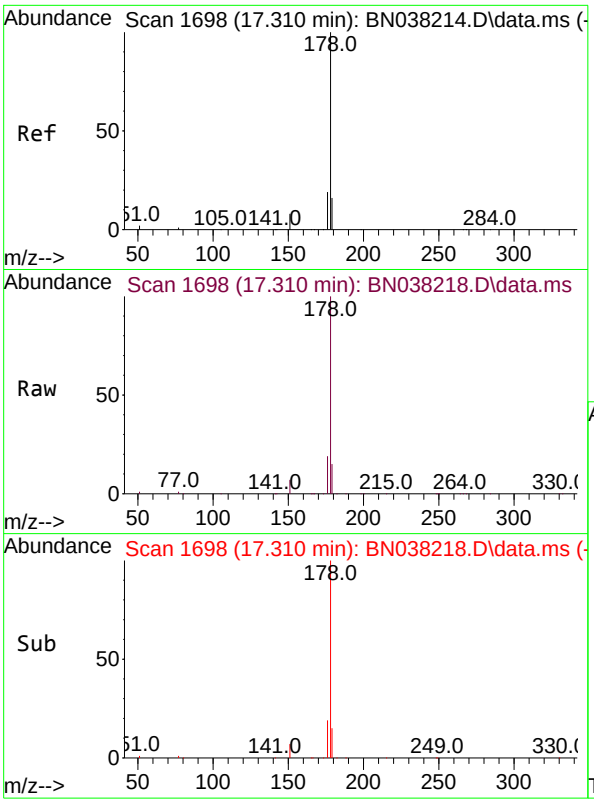


#25
Phenanthrene
Concen: 5.011 ng
RT: 17.223 min Scan# 1691
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:178 Resp: 443212

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.3	22.9
179	15.2	12.0	18.0



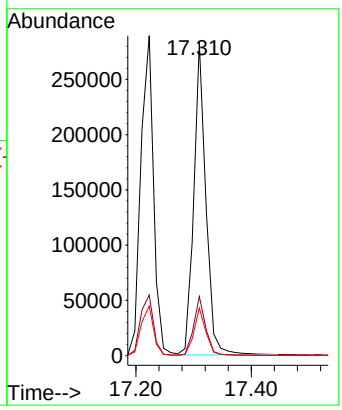


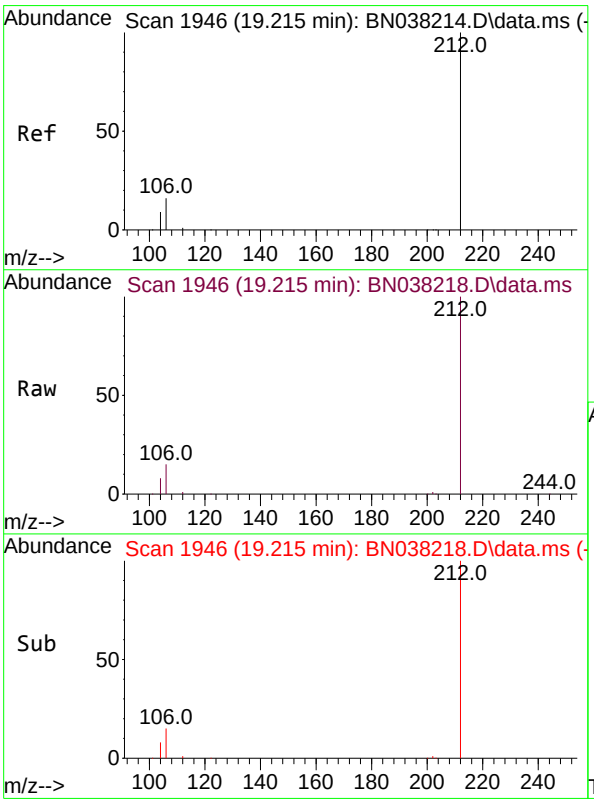
#26
Anthracene
Concen: 5.443 ng
RT: 17.310 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 410739

Ion	Ratio	Lower	Upper
178	100		
176	18.8	14.7	22.1
179	15.2	12.3	18.5

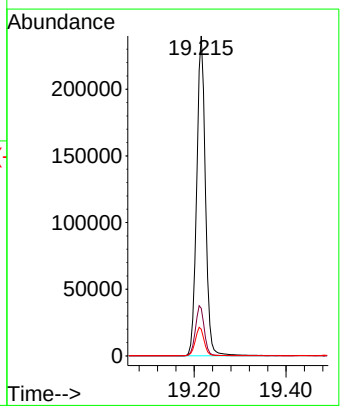


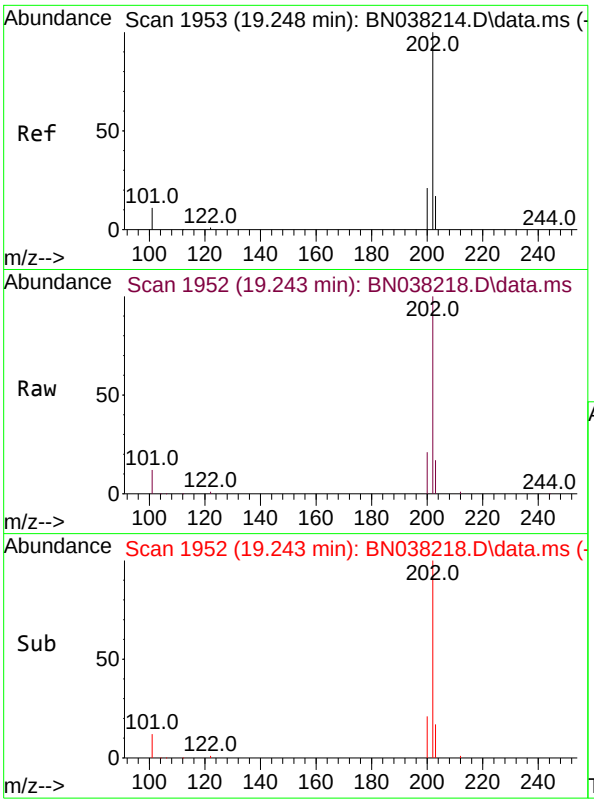


#27
Fluoranthene-d10
Concen: 5.186 ng
RT: 19.215 min Scan# 1946
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:212 Resp: 316915

Ion	Ratio	Lower	Upper
212	100		
106	15.8	12.7	19.1
104	8.9	7.3	10.9



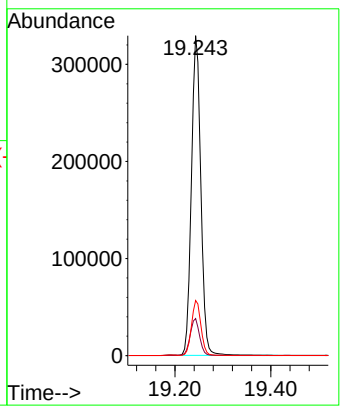


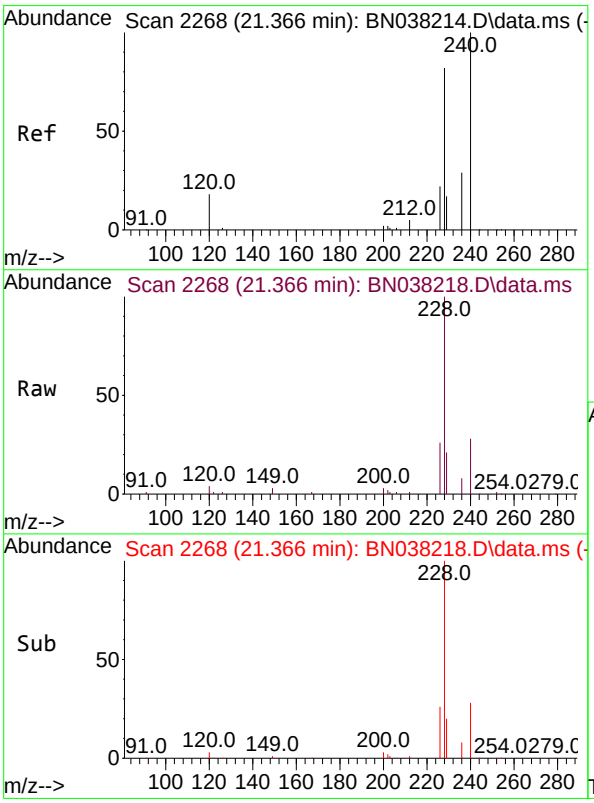
#28
Fluoranthene
Concen: 5.231 ng
RT: 19.243 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:202 Resp: 445842

Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.8	14.6
203	17.3	13.6	20.4

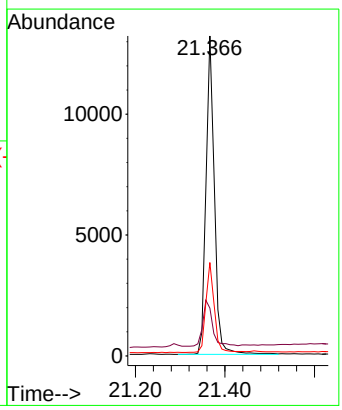


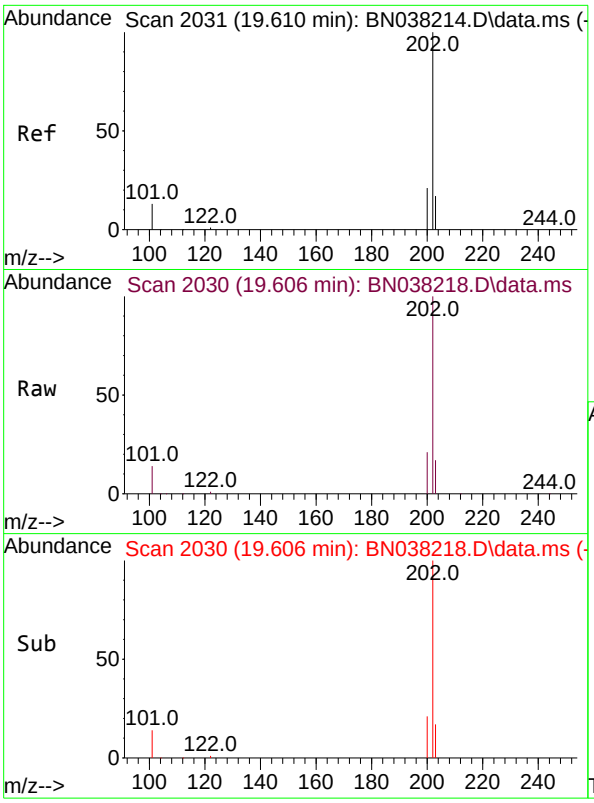


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.366 min Scan# 2268
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:240 Resp: 17259

Ion	Ratio	Lower	Upper
240	100		
120	14.9	18.1	27.1#
236	29.2	24.2	36.4



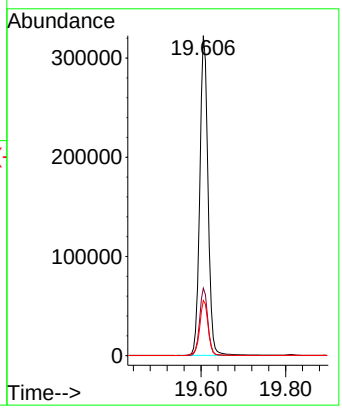


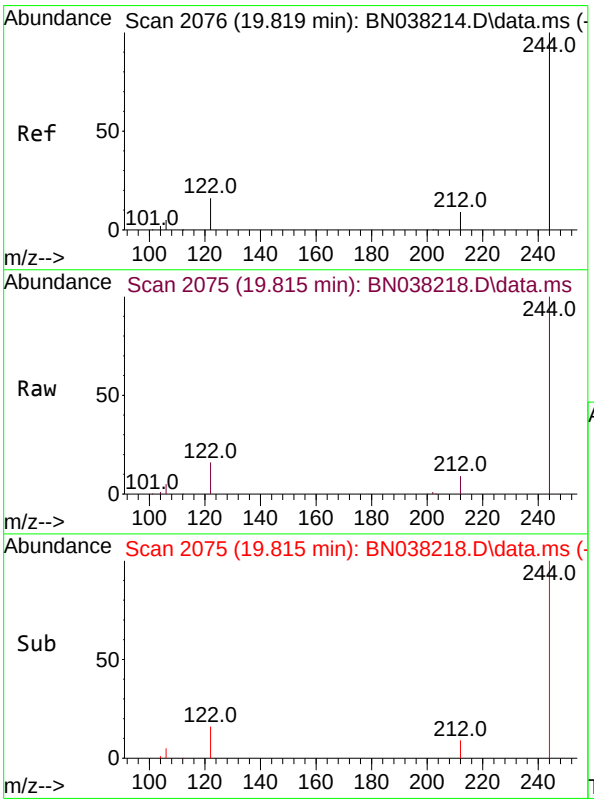
#30
Pyrene
Concen: 5.021 ng
RT: 19.606 min Scan# 20
Delta R.T. -0.005 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:202 Resp: 432809

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.8	25.2
203	17.7	14.4	21.6

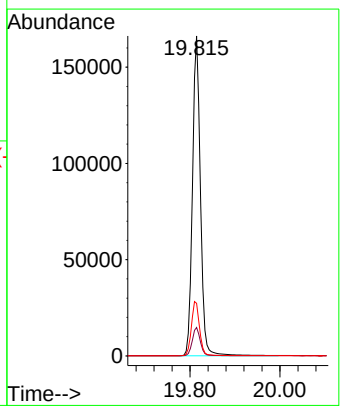


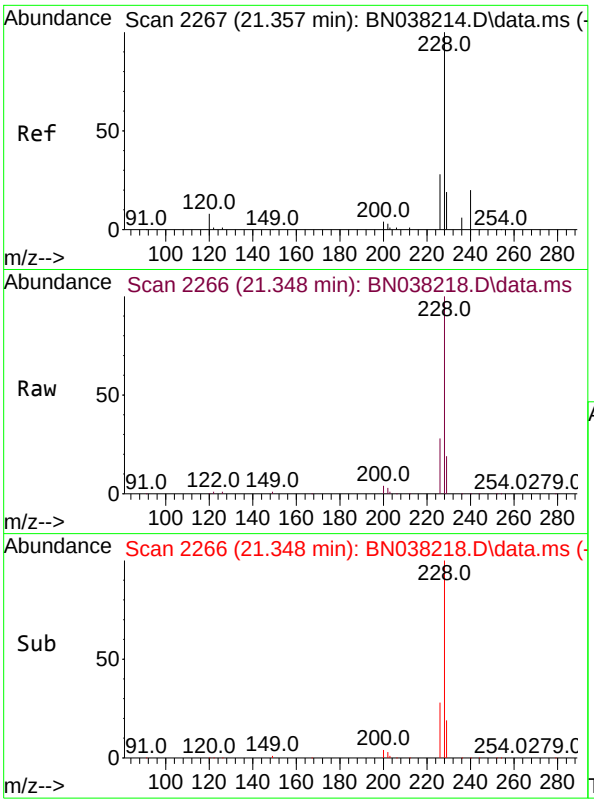


#31
Terphenyl-d14
Concen: 5.136 ng
RT: 19.815 min Scan# 2075
Delta R.T. -0.005 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:244 Resp: 204734

Ion	Ratio	Lower	Upper
244	100		
212	8.9	7.7	11.5
122	16.5	13.6	20.4



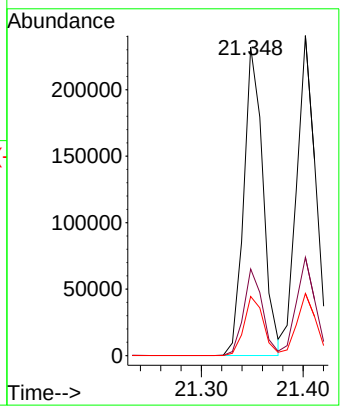


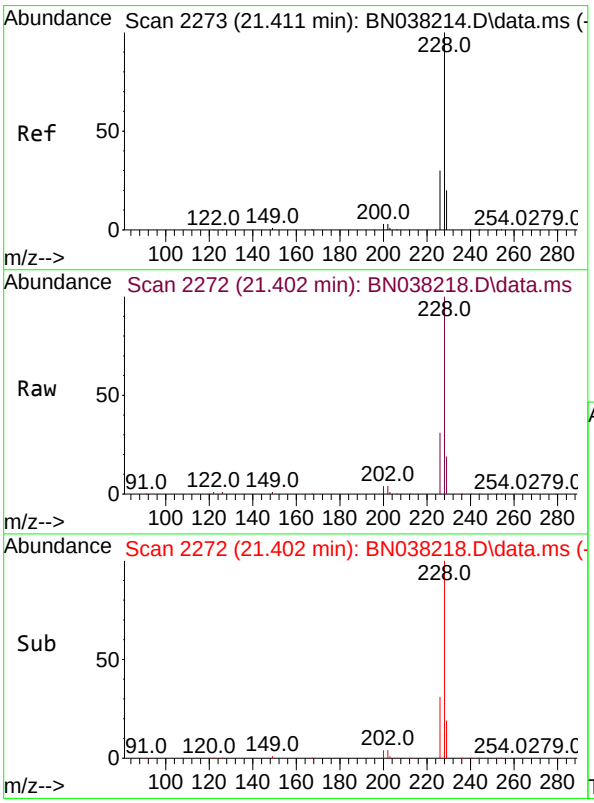
#32
Benzo(a)anthracene
Concen: 5.200 ng
RT: 21.348 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 303930

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.6	33.8
229	19.2	15.8	23.8

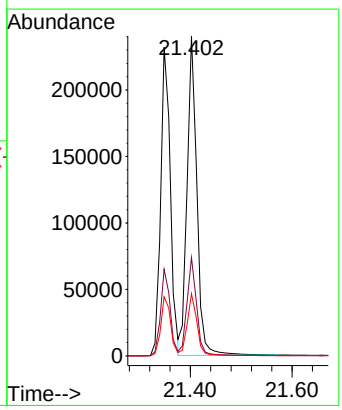


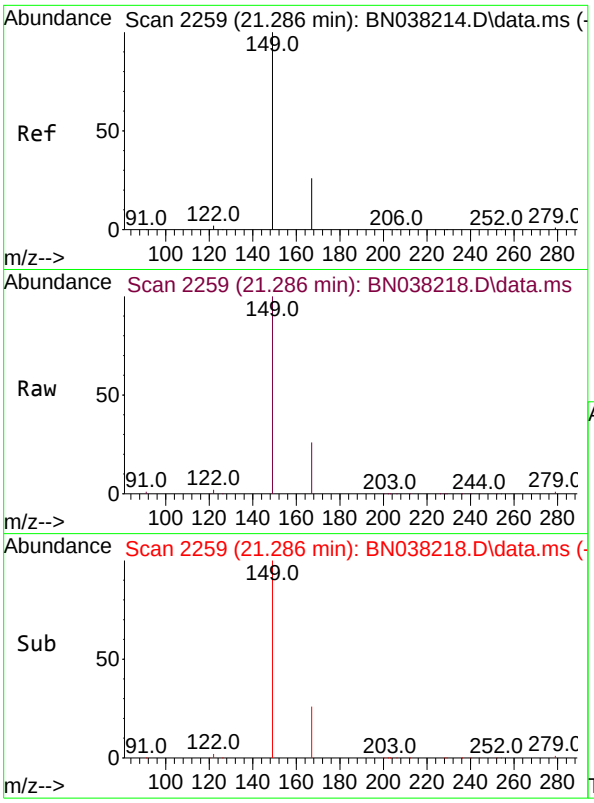


#33
Chrysene
Concen: 4.672 ng
RT: 21.402 min Scan# 2272
Delta R.T. -0.009 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:228 Resp: 322253

Ion	Ratio	Lower	Upper
228	100		
226	30.7	23.8	35.8
229	19.4	16.1	24.1



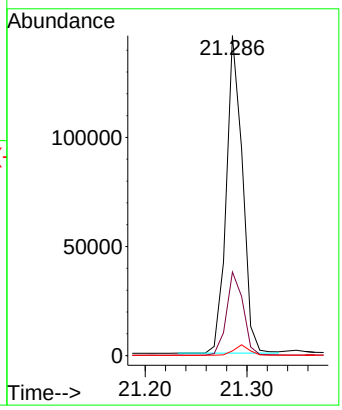


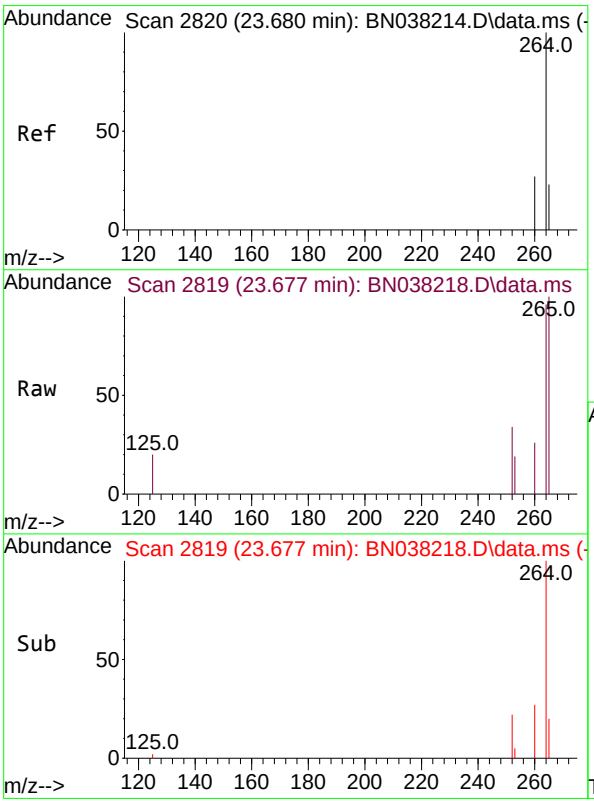
#34
Bis(2-ethylhexyl)phthalate
Concen: 5.026 ng
RT: 21.286 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:149 Resp: 160858

Ion	Ratio	Lower	Upper
149	100		
167	27.0	20.7	31.1
279	3.2	2.5	3.7

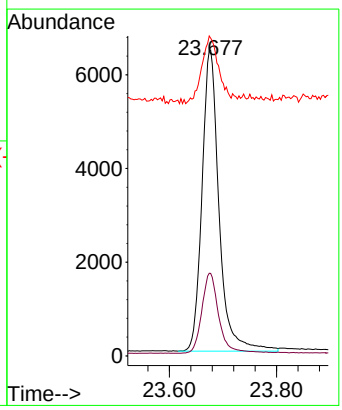


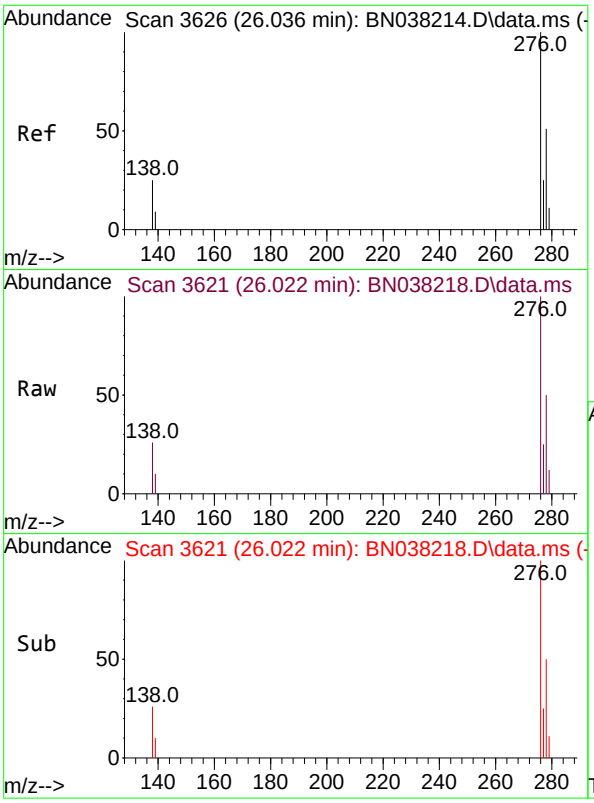


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.677 min Scan# 2819
Delta R.T. -0.003 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:264 Resp: 14227

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.7	32.5
265	103.9	98.0	147.0



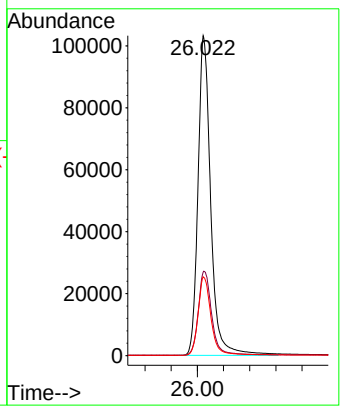


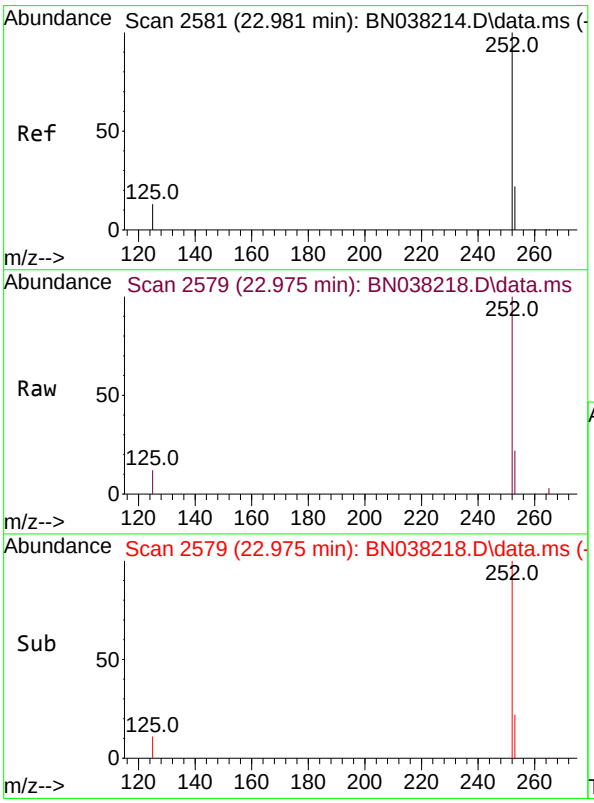
#36
Indeno(1,2,3-cd)pyrene
Concen: 5.295 ng
RT: 26.022 min Scan# 3
Delta R.T. -0.015 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 348640

Ion	Ratio	Lower	Upper
276	100		
138	27.4	21.4	32.2
277	24.9	19.1	28.7

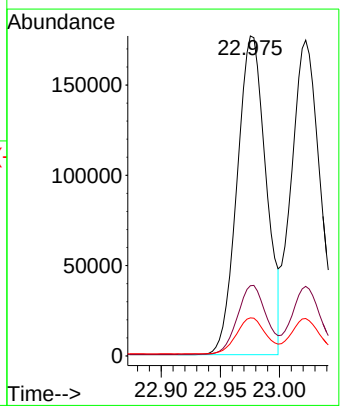


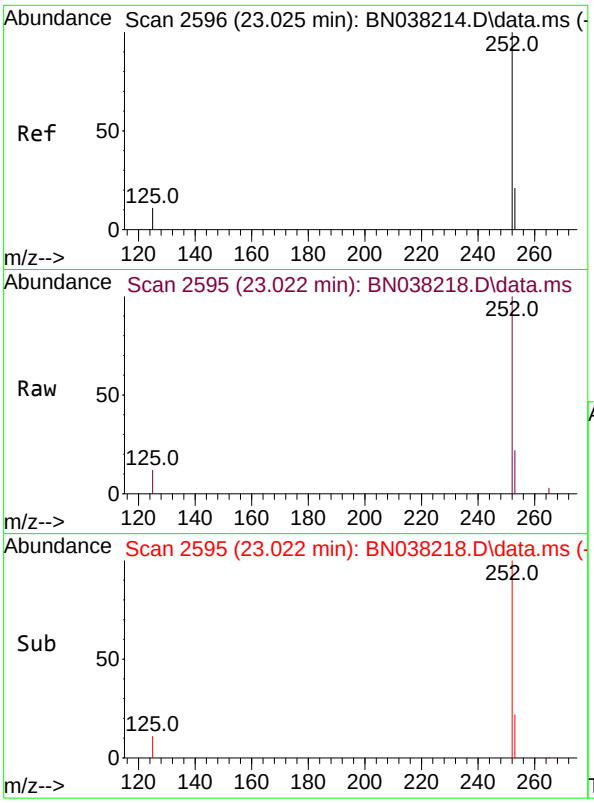


#37
Benzo(b)fluoranthene
Concen: 5.145 ng
RT: 22.975 min Scan# 2579
Delta R.T. -0.006 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:252 Resp: 300462

Ion	Ratio	Lower	Upper
252	100		
253	21.9	22.2	33.4#
125	11.9	18.0	27.0#



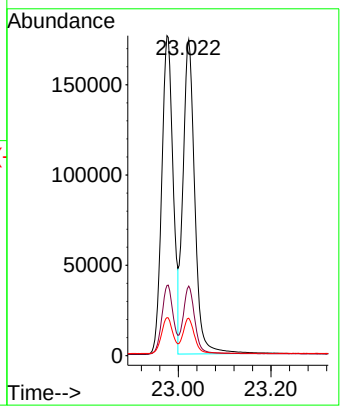


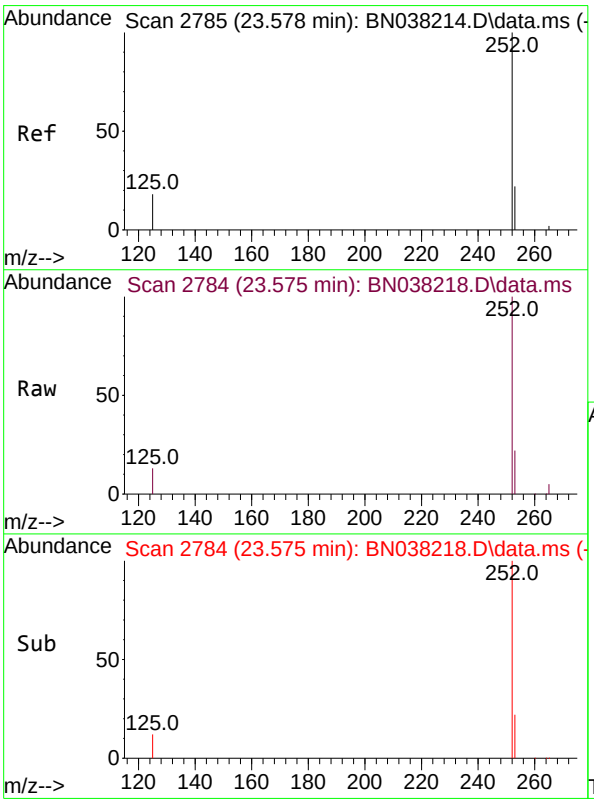
#38
Benzo(k)fluoranthene
Concen: 5.104 ng
RT: 23.022 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 309850

Ion	Ratio	Lower	Upper
252	100		
253	22.0	22.4	33.6#
125	11.8	17.5	26.3#

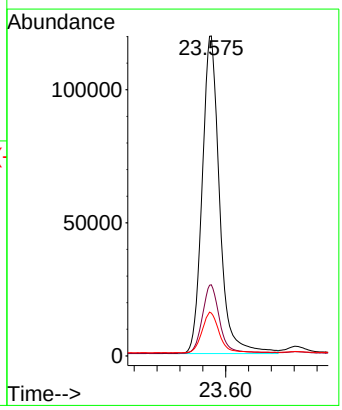


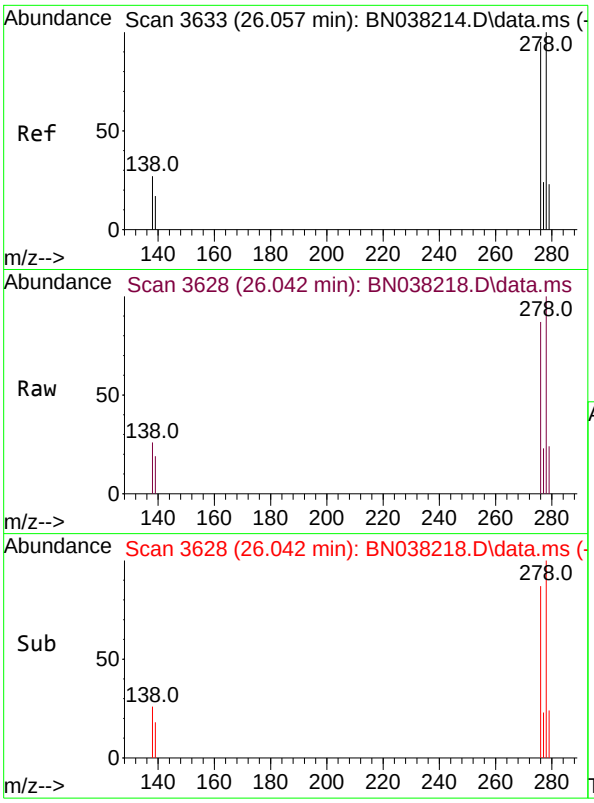


#39
Benzo(a)pyrene
Concen: 5.149 ng
RT: 23.575 min Scan# 2784
Delta R.T. -0.003 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:252 Resp: 252042

Ion	Ratio	Lower	Upper
252	100		
253	22.2	25.3	37.9#
125	13.4	25.2	37.8#



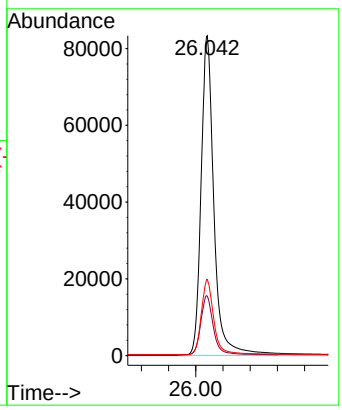


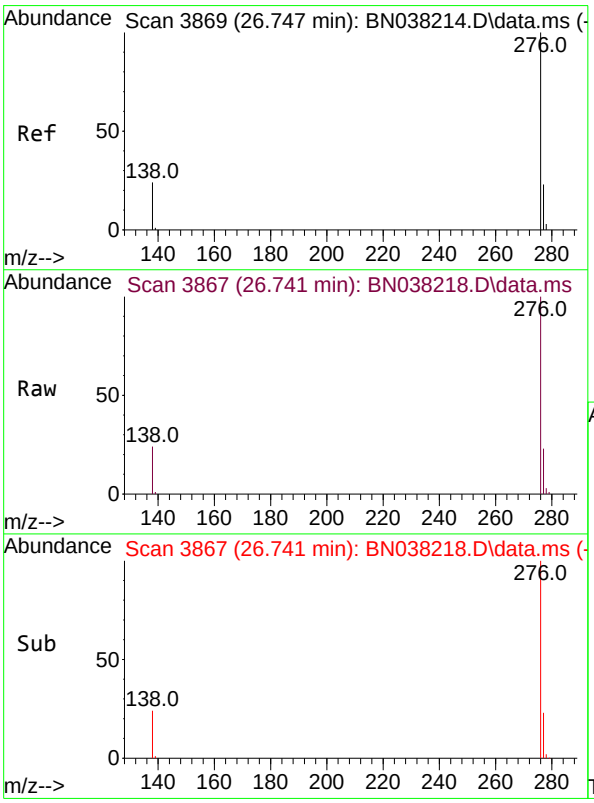
#40
Dibenzo(a,h)anthracene
Concen: 5.462 ng
RT: 26.042 min Scan# 3
Delta R.T. -0.015 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:278 Resp: 272232

Ion	Ratio	Lower	Upper
278	100		
139	18.6	17.6	26.4
279	23.8	24.2	36.4#

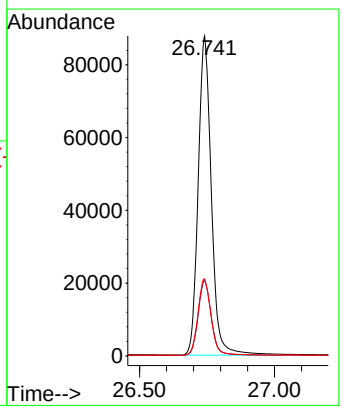




#41
Benzo(g,h,i)perylene
Concen: 5.013 ng
RT: 26.741 min Scan# 3867
Delta R.T. -0.006 min
Lab File: BN038218.D
Acq: 27 Nov 2025 00:13

Tgt Ion:276 Resp: 296912

Ion	Ratio	Lower	Upper
276	100		
277	23.4	20.2	30.2
138	24.1	20.8	31.2



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038219.D
Acq On : 27 Nov 2025 00:49
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Quant Time: Nov 28 20:56:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.768	152	8286	0.400	ng		0.00
7) Naphthalene-d8	10.573	136	26445	0.400	ng		0.00
13) Acenaphthene-d10	14.430	164	15555	0.400	ng		0.00
19) Phenanthrene-d10	17.186	188	26160	0.400	ng		0.00
29) Chrysene-d12	21.366	240	14480	0.400	ng		0.00
35) Perylene-d12	23.677	264	13201	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.341	112	9400	0.485	ng		0.00
5) Phenol-d6	6.930	99	12758	0.527	ng		0.00
8) Nitrobenzene-d5	8.918	82	8931	0.422	ng		0.00
11) 2-Methylnaphthalene-d10	12.167	152	17680	0.471	ng		0.00
14) 2,4,6-Tribromophenol	15.932	330	2465	0.504	ng		0.00
15) 2-Fluorobiphenyl	13.051	172	27860	0.464	ng		0.00
27) Fluoranthene-d10	19.215	212	25558	0.450	ng		0.00
31) Terphenyl-d14	19.815	244	16070	0.481	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.254	88	3822	0.438	ng		98
3) n-Nitrosodimethylamine	3.557	42	4687	0.435	ng	#	99
6) bis(2-Chloroethyl)ether	7.190	93	11078	0.478	ng		98
9) Naphthalene	10.616	128	33280	0.453	ng		100
10) Hexachlorobutadiene	10.915	225	5553	0.445	ng	#	97
12) 2-Methylnaphthalene	12.243	142	22580	0.467	ng		100
16) Acenaphthylene	14.142	152	30627	0.440	ng		99
17) Acenaphthene	14.494	154	22117	0.456	ng		99
18) Fluorene	15.478	166	29030	0.463	ng		100
20) 4,6-Dinitro-2-methylph...	15.560	198	1331	0.648	ng	#	31
21) 4-Bromophenyl-phenylether	16.379	248	8311	0.459	ng		96
22) Hexachlorobenzene	16.491	284	10112	0.454	ng		99
23) Atrazine	16.652	200	4807	0.415	ng		98
24) Pentachlorophenol	16.838	266	3722	0.609	ng		98
25) Phenanthrene	17.223	178	37032	0.451	ng		100
26) Anthracene	17.310	178	31322	0.447	ng		99
28) Fluoranthene	19.243	202	35631	0.450	ng		99
30) Pyrene	19.610	202	34919	0.483	ng		99
32) Benzo(a)anthracene	21.357	228	22927	0.468	ng		99
33) Chrysene	21.402	228	26769	0.463	ng		98
34) Bis(2-ethylhexyl)phtha...	21.286	149	12409	0.462	ng		99
36) Indeno(1,2,3-cd)pyrene	26.031	276	28585	0.468	ng		99
37) Benzo(b)fluoranthene	22.978	252	24504	0.452	ng		96
38) Benzo(k)fluoranthene	23.025	252	26724	0.474	ng		96
39) Benzo(a)pyrene	23.578	252	20972	0.462	ng		95
40) Dibenzo(a,h)anthracene	26.051	278	21955	0.475	ng		96
41) Benzo(g,h,i)perylene	26.744	276	25311	0.461	ng		99

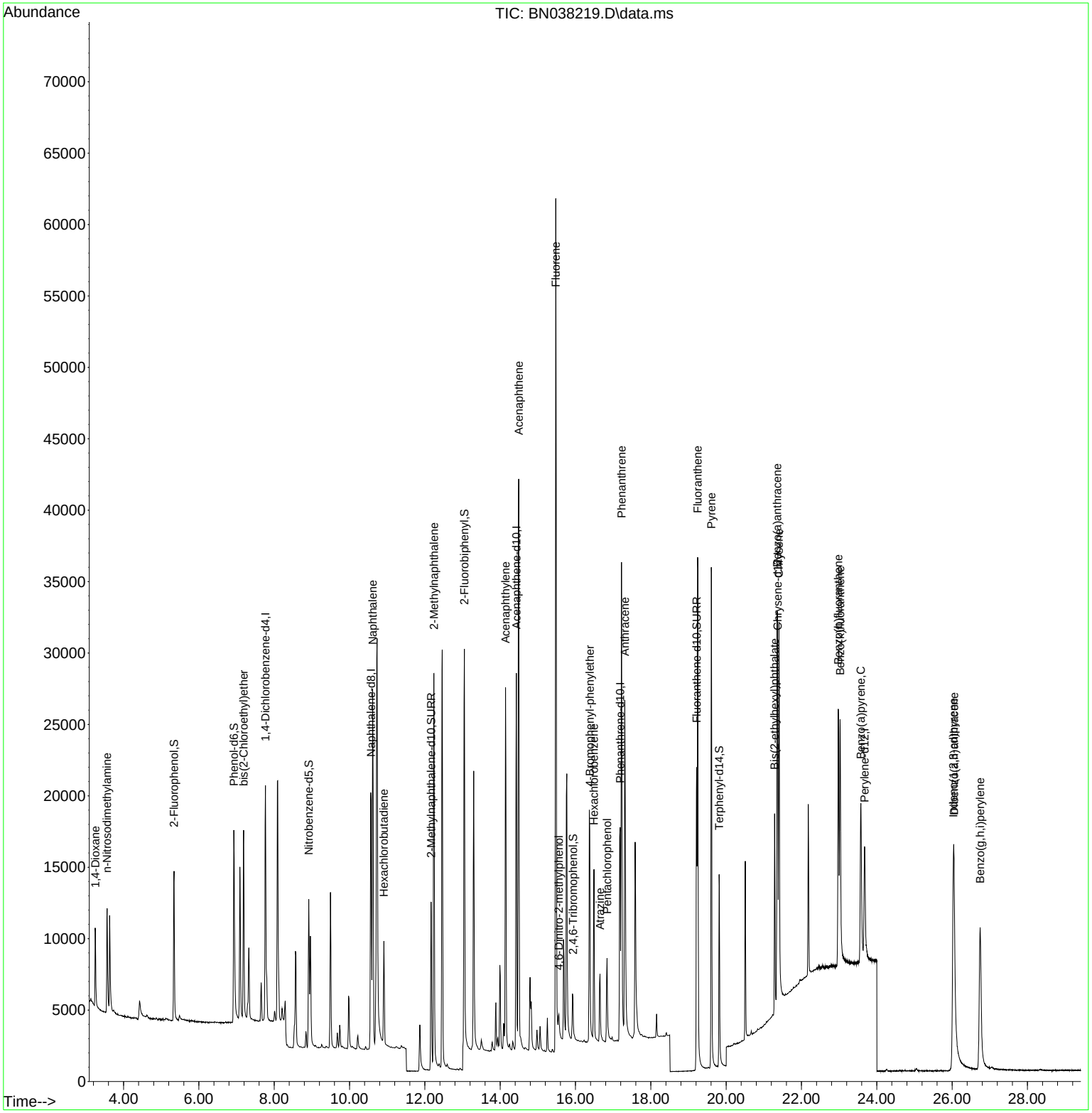
(#) = qualifier out of range (m) = manual integration (+) = signals summed

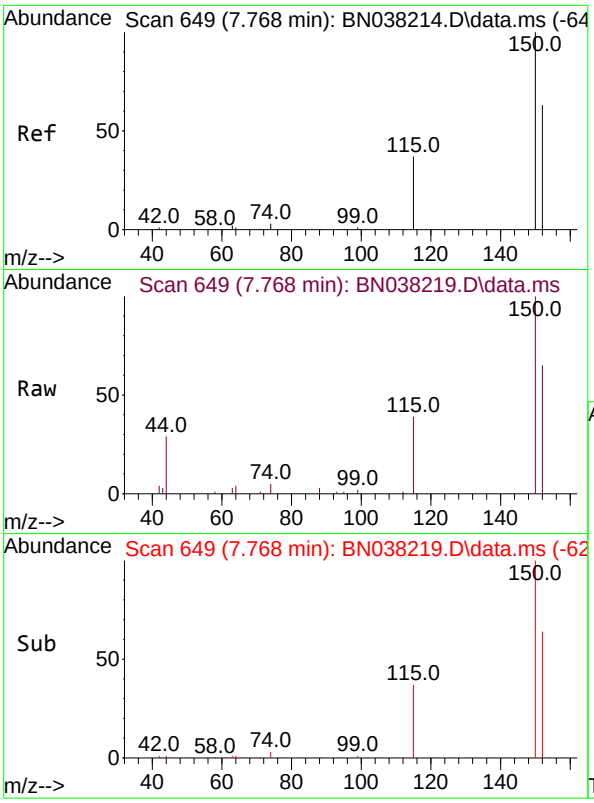
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038219.D
Acq On : 27 Nov 2025 00:49
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Quant Time: Nov 28 20:56:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 2025
Response via : Initial Calibration



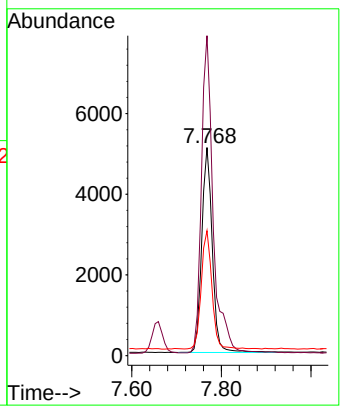


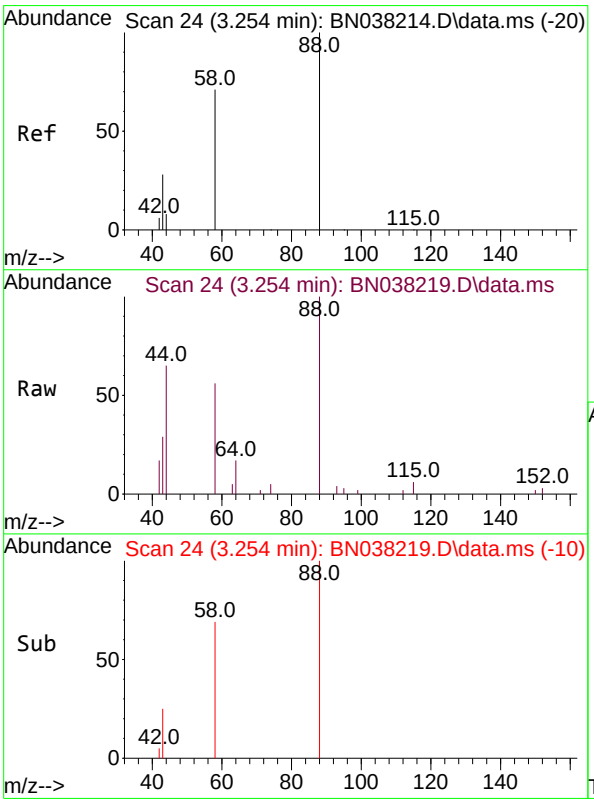
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.768 min Scan# 64
Delta R.T. -0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Tgt Ion:152 Resp: 8286

Ion	Ratio	Lower	Upper
152	100		
150	153.8	125.3	187.9
115	60.0	49.0	73.4

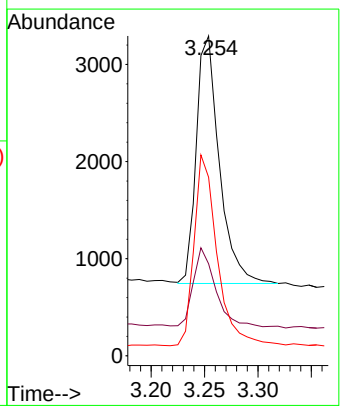


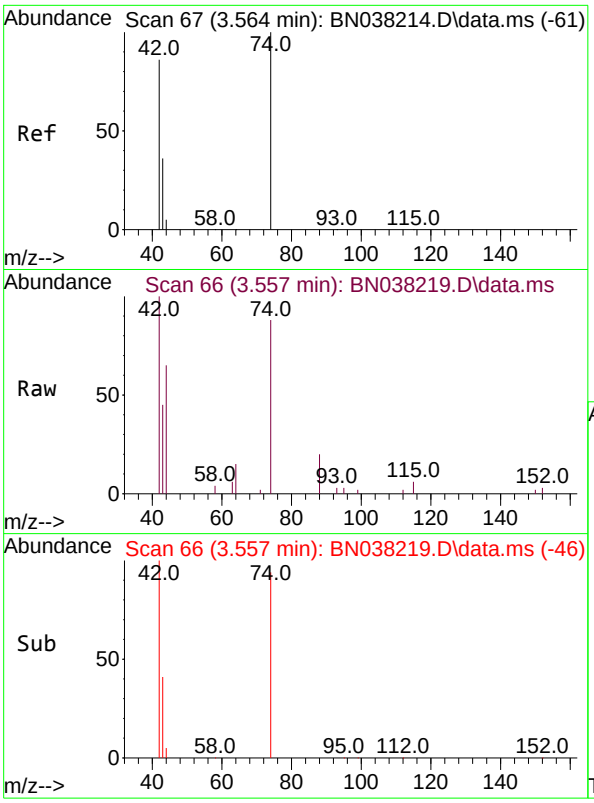


#2
1,4-Dioxane
Concen: 0.438 ng
RT: 3.254 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion: 88 Resp: 3822

Ion	Ratio	Lower	Upper
88	100		
43	32.8	24.8	37.2
58	77.4	61.1	91.7



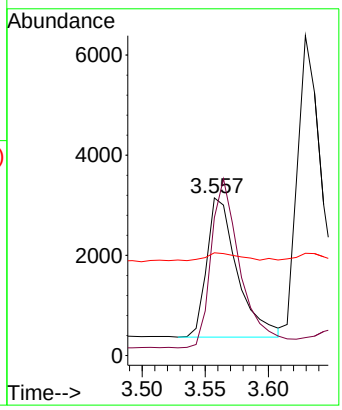


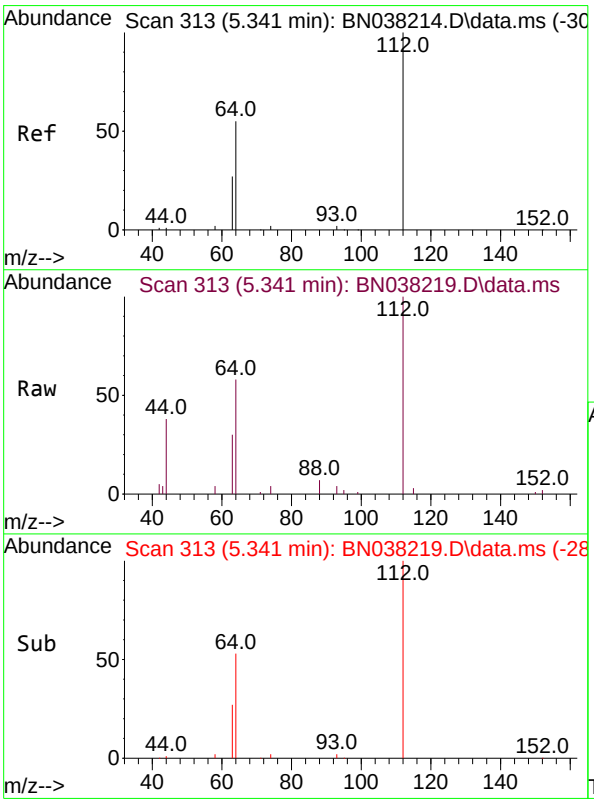
#3
n-Nitrosodimethylamine
Concen: 0.435 ng
RT: 3.557 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Tgt Ion: 42 Resp: 4687

Ion	Ratio	Lower	Upper
42	100		
74	119.2	96.2	144.2
44	7.0	8.0	12.0#

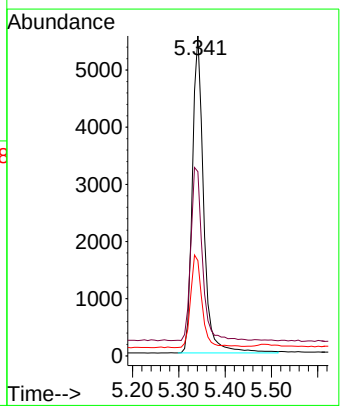


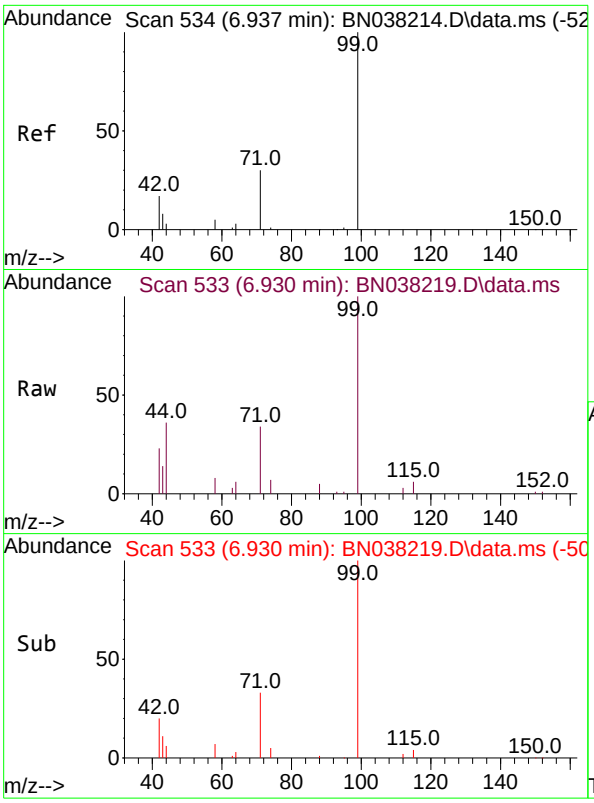


#4
2-Fluorophenol
Concen: 0.485 ng
RT: 5.341 min Scan# 313
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion:112 Resp: 9400

Ion	Ratio	Lower	Upper
112	100		
64	55.6	45.0	67.4
63	30.1	23.2	34.8



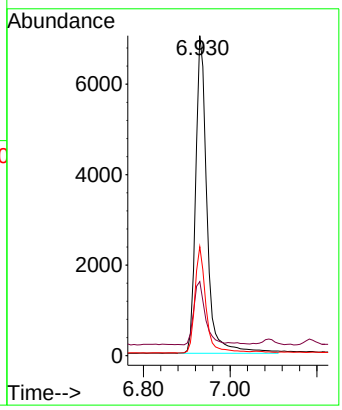


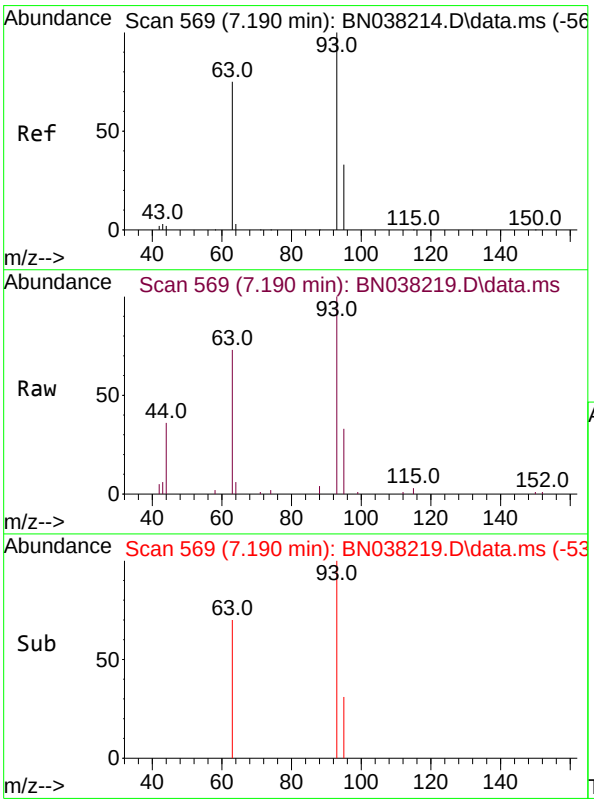
#5
Phenol-d6
Concen: 0.527 ng
RT: 6.930 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Tgt Ion: 99 Resp: 12758

Ion	Ratio	Lower	Upper
99	100		
42	20.3	17.0	25.6
71	32.7	25.4	38.2

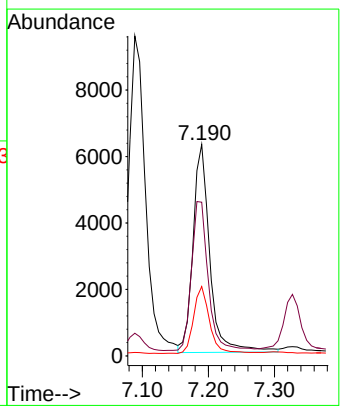


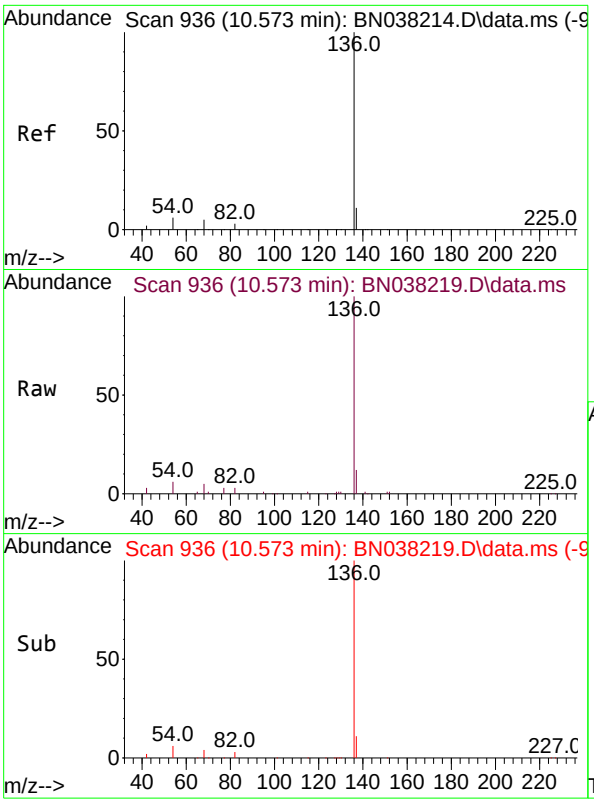


#6
bis(2-Chloroethyl)ether
Concen: 0.478 ng
RT: 7.190 min Scan# 569
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion: 93 Resp: 11078

Ion	Ratio	Lower	Upper
93	100		
63	70.6	58.1	87.1
95	30.5	25.1	37.7



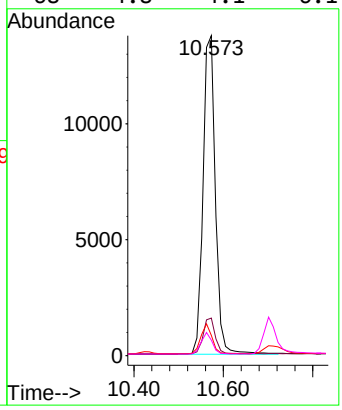


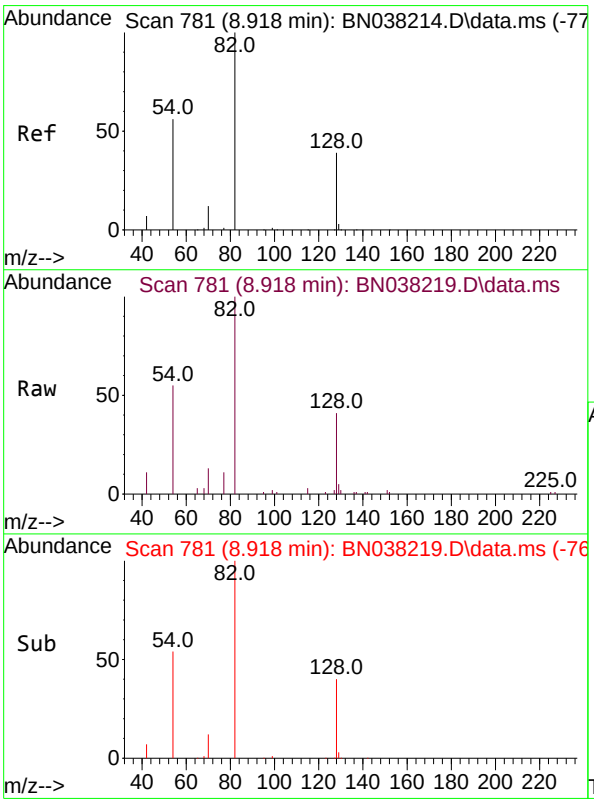
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.573 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Tgt Ion:136 Resp: 26445

Ion	Ratio	Lower	Upper
136	100		
137	11.7	8.9	13.3
54	6.3	5.4	8.0
68	4.8	4.1	6.1

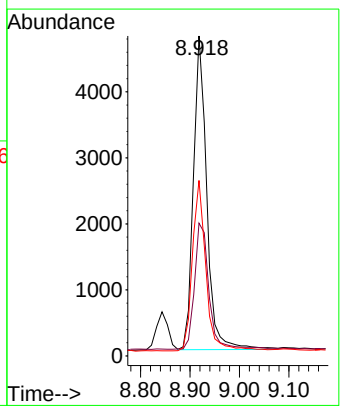


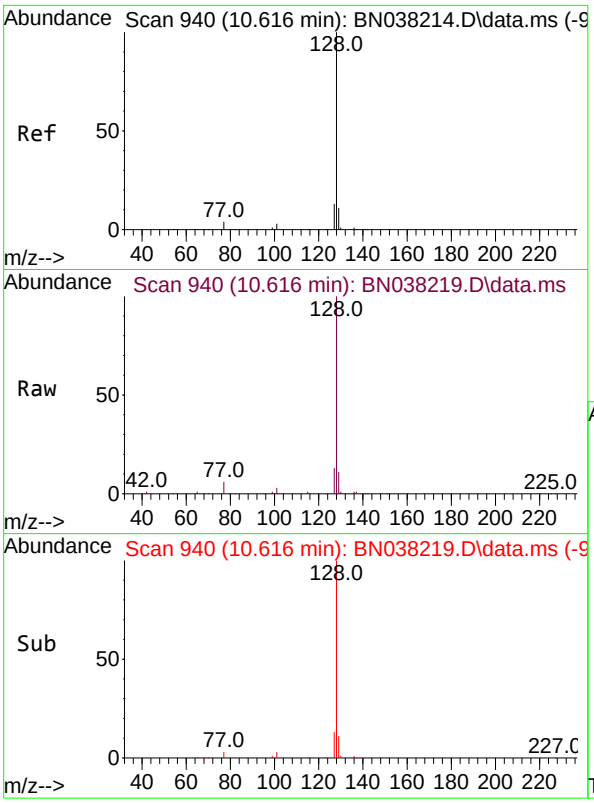


#8
Nitrobenzene-d5
Concen: 0.422 ng
RT: 8.918 min Scan# 781
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion: 82 Resp: 8931

Ion	Ratio	Lower	Upper
82	100		
128	41.5	32.6	48.8
54	54.8	45.4	68.0



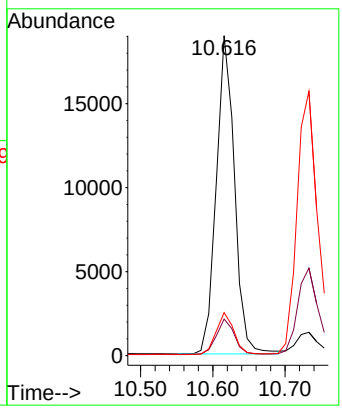


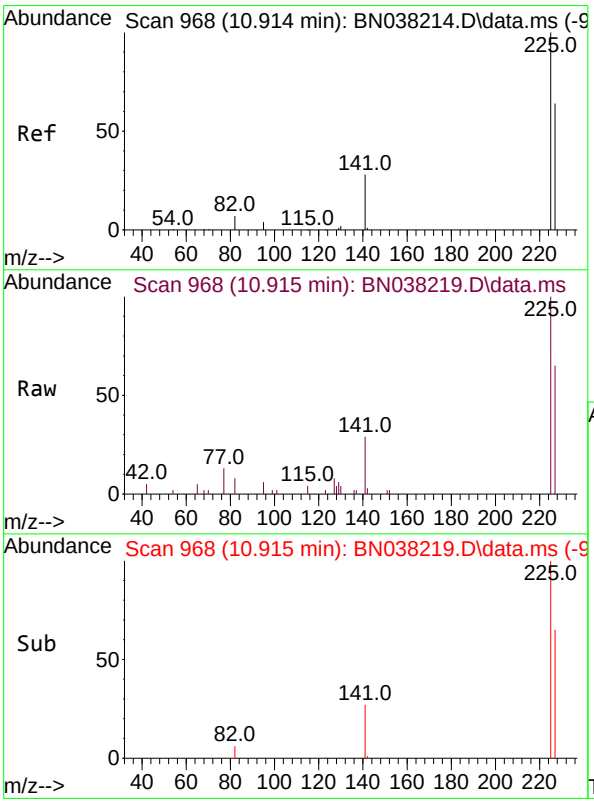
#9
Naphthalene
Concen: 0.453 ng
RT: 10.616 min Scan# 94
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Tgt Ion:128 Resp: 33280

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.1	13.7
127	13.4	10.6	16.0

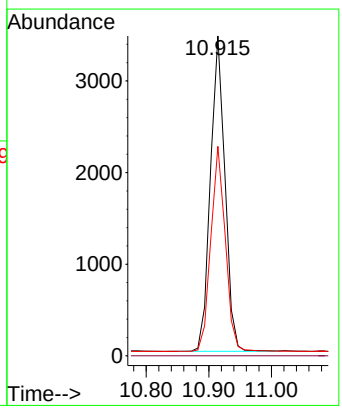


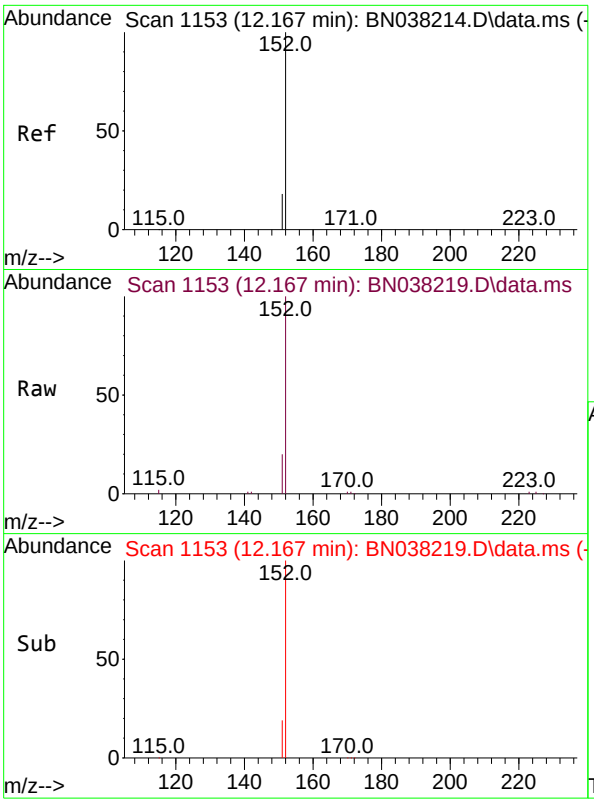


#10
Hexachlorobutadiene
Concen: 0.445 ng
RT: 10.915 min Scan# 968
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion:225 Resp: 5553

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	65.2	50.5	75.7



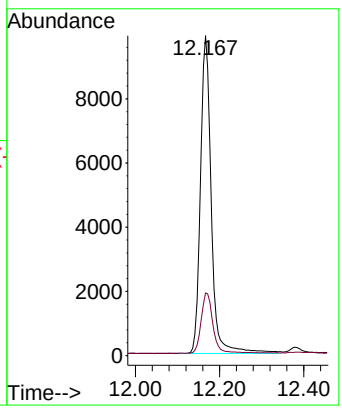


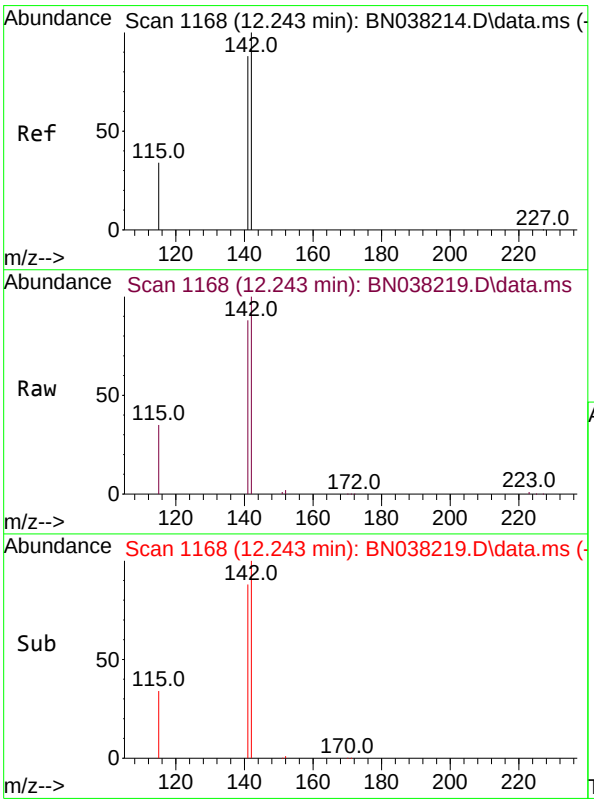
#11
2-Methylnaphthalene-d10
Concen: 0.471 ng
RT: 12.167 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Tgt Ion:152 Resp: 17680

Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.7	25.1

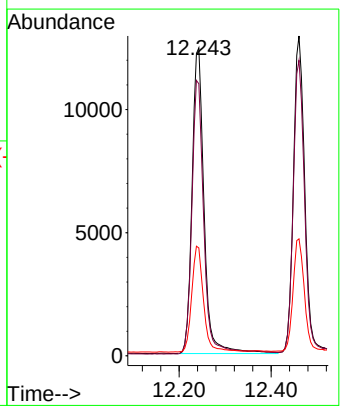


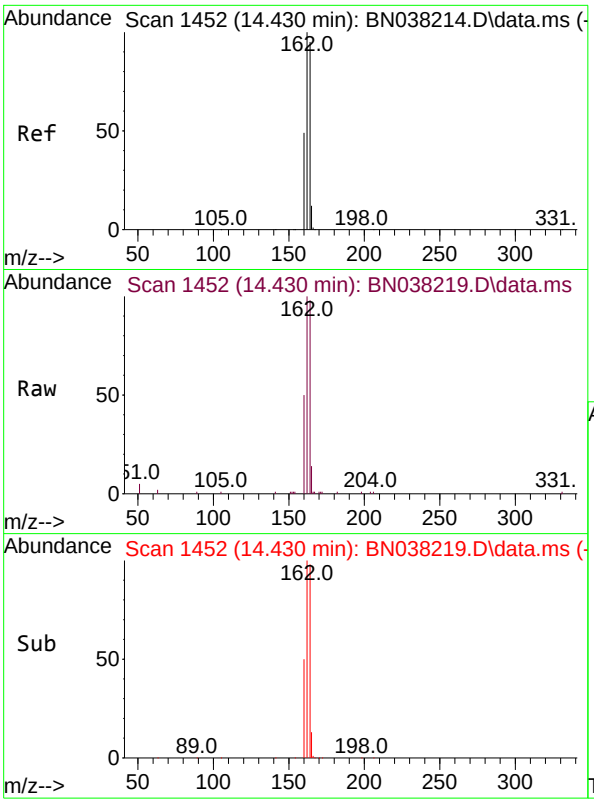


#12
2-Methylnaphthalene
Concen: 0.467 ng
RT: 12.243 min Scan# 1168
Delta R.T. -0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion:142 Resp: 22580

Ion	Ratio	Lower	Upper
142	100		
141	88.3	70.9	106.3
115	35.0	27.7	41.5



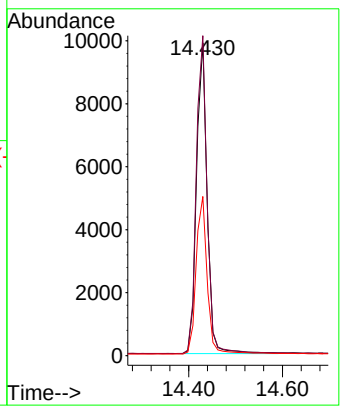


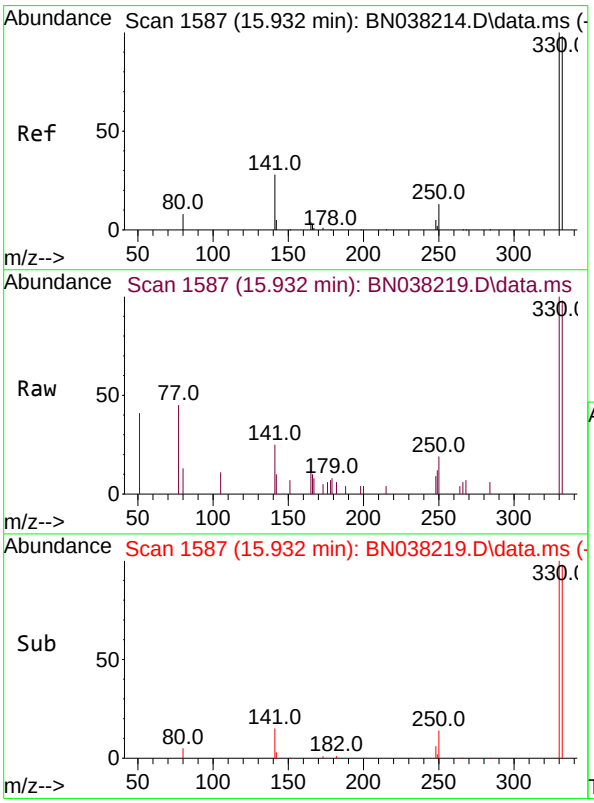
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Tgt Ion:164 Resp: 15555

Ion	Ratio	Lower	Upper
164	100		
162	102.3	83.8	125.8
160	50.9	41.6	62.4

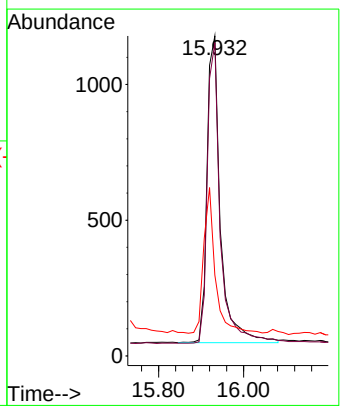


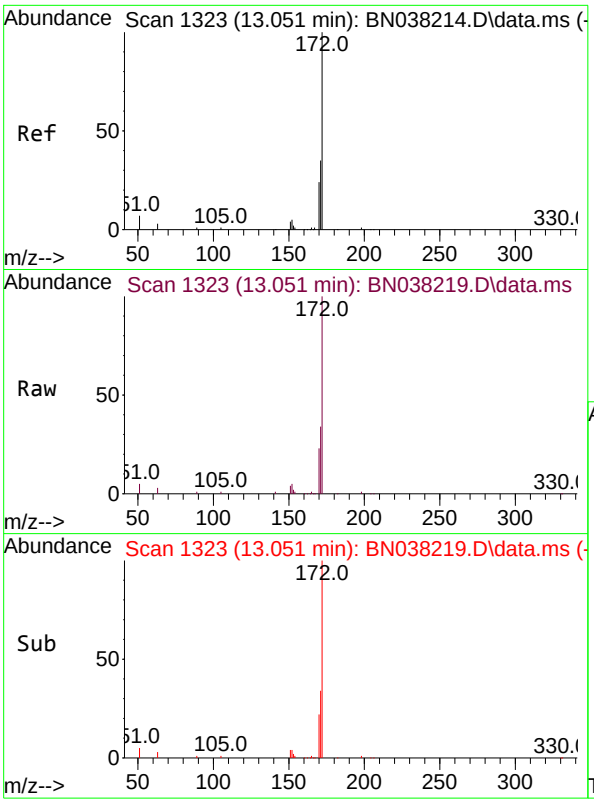


#14
2,4,6-Tribromophenol
Concen: 0.504 ng
RT: 15.932 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion:330 Resp: 2465

Ion	Ratio	Lower	Upper
330	100		
332	95.5	77.8	116.6
141	41.0	33.0	49.4



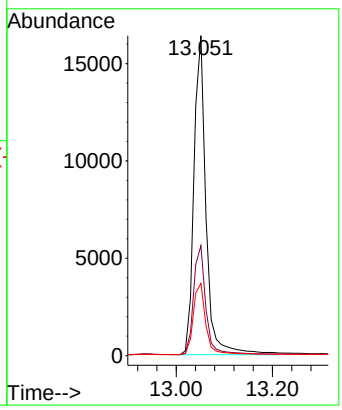


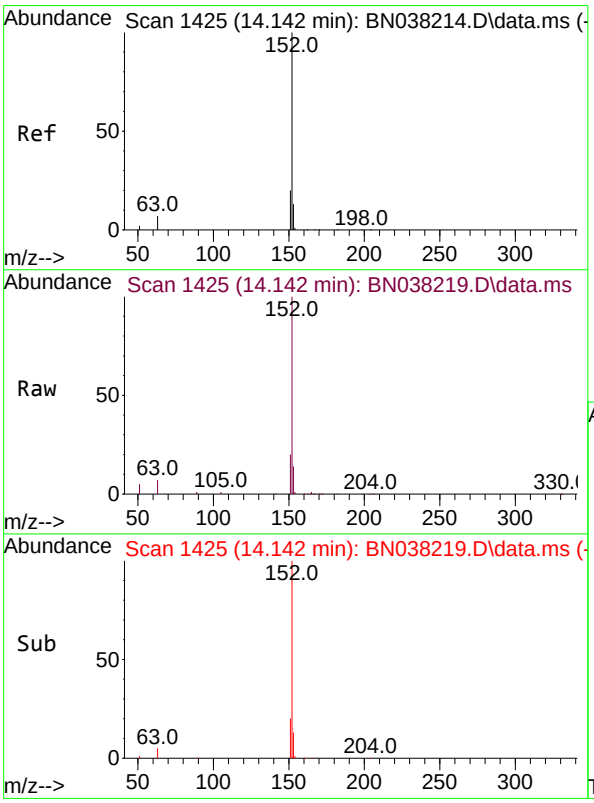
#15
2-Fluorobiphenyl
Concen: 0.464 ng
RT: 13.051 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Tgt Ion:172 Resp: 27860

Ion	Ratio	Lower	Upper
172	100		
171	34.4	28.1	42.1
170	22.6	19.1	28.7

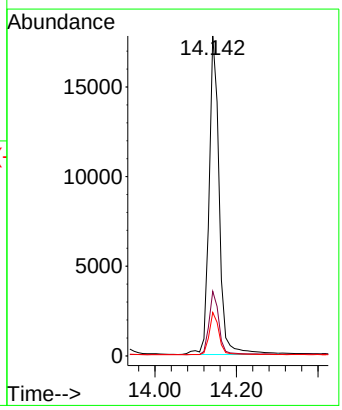


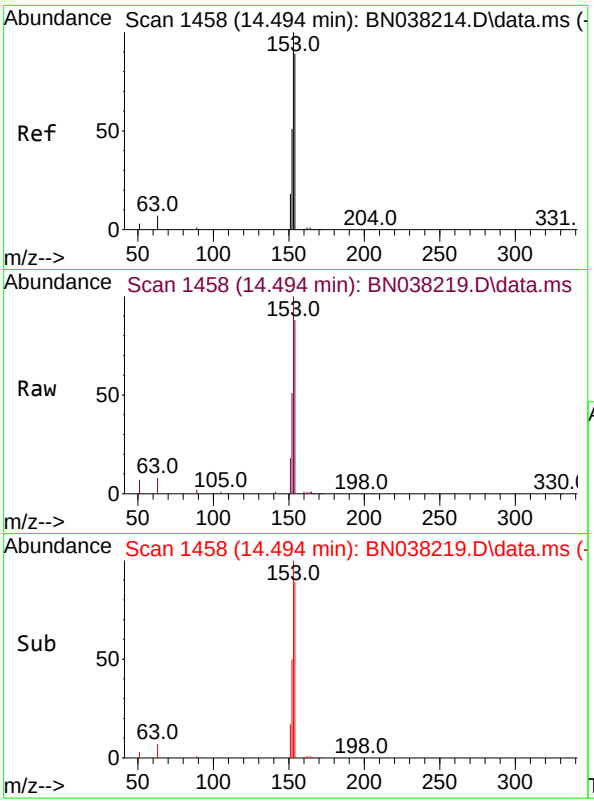


#16
Acenaphthylene
Concen: 0.440 ng
RT: 14.142 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion:152 Resp: 30627

Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.6	23.4
153	12.9	10.6	15.8



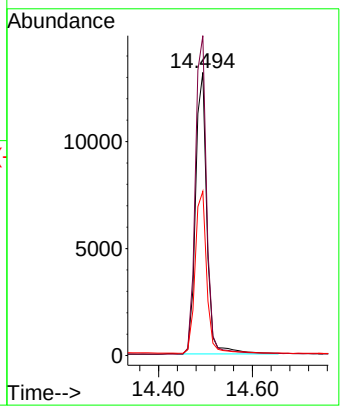


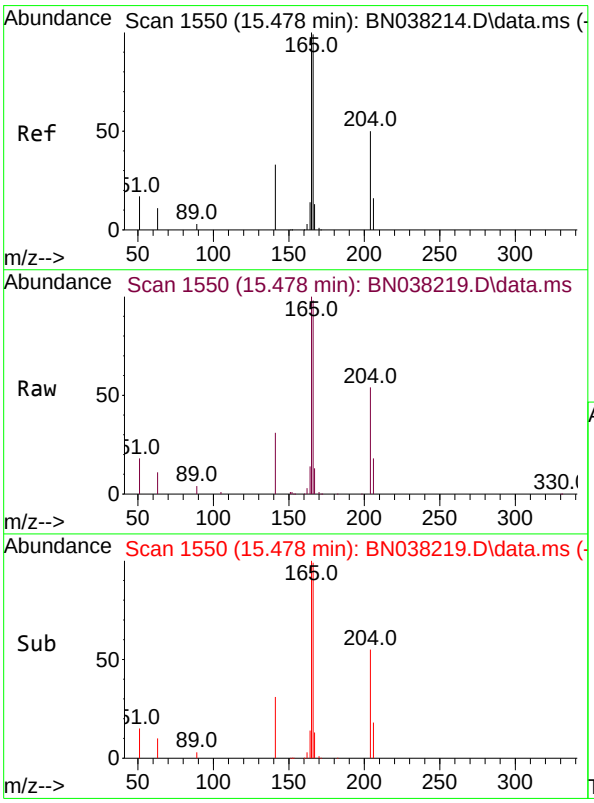
#17
Acenaphthene
Concen: 0.456 ng
RT: 14.494 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Tgt Ion:154 Resp: 22117

Ion	Ratio	Lower	Upper
154	100		
153	113.5	91.1	136.7
152	58.7	48.2	72.2

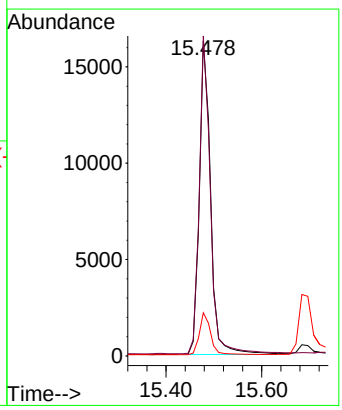


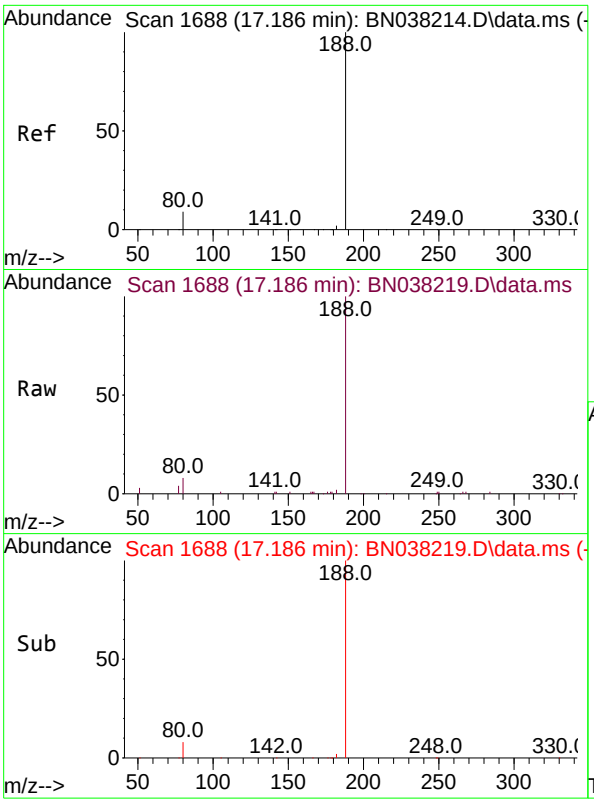


#18
Fluorene
Concen: 0.463 ng
RT: 15.478 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion:166 Resp: 29030

Ion	Ratio	Lower	Upper
166	100		
165	98.1	78.7	118.1
167	13.1	10.9	16.3



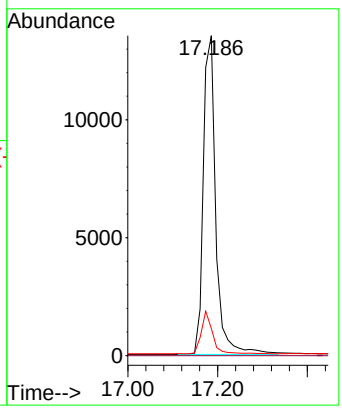


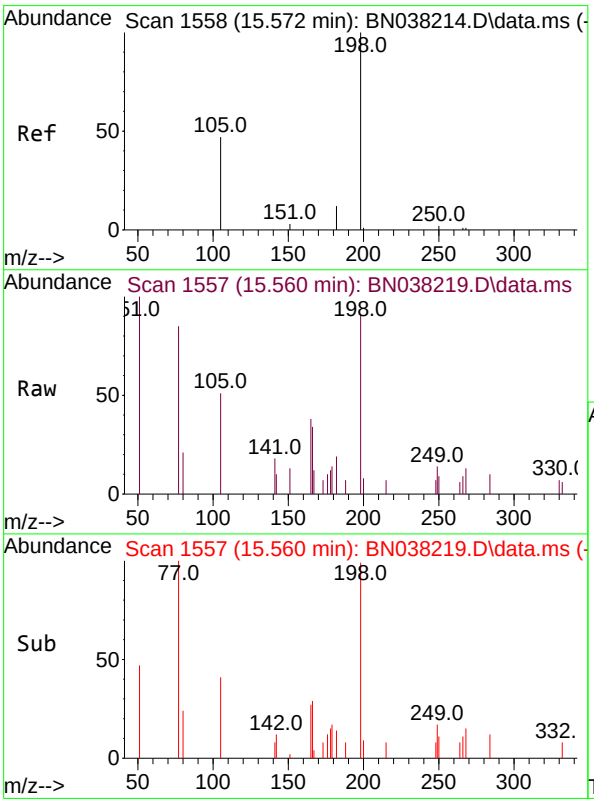
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Tgt Ion:188 Resp: 26160

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.5	7.7	11.5

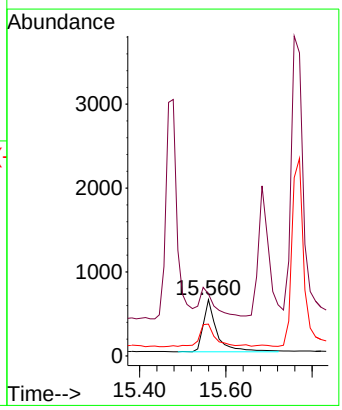


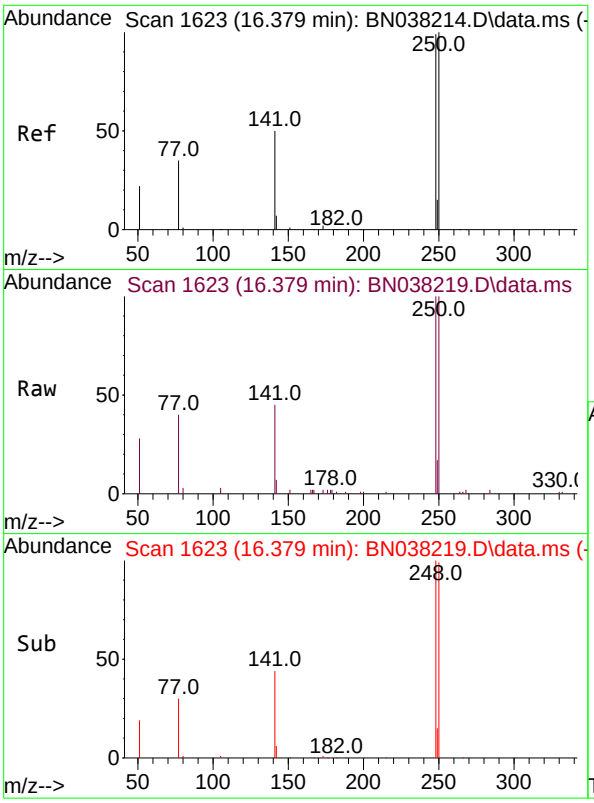


#20
4,6-Dinitro-2-methylphenol
Concen: 0.648 ng
RT: 15.560 min Scan# 1557
Delta R.T. -0.012 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion:198 Resp: 1331

Ion	Ratio	Lower	Upper
198	100		
51	110.3	205.1	307.7#
105	56.5	61.6	92.4#



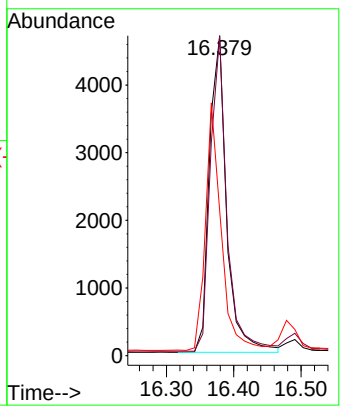


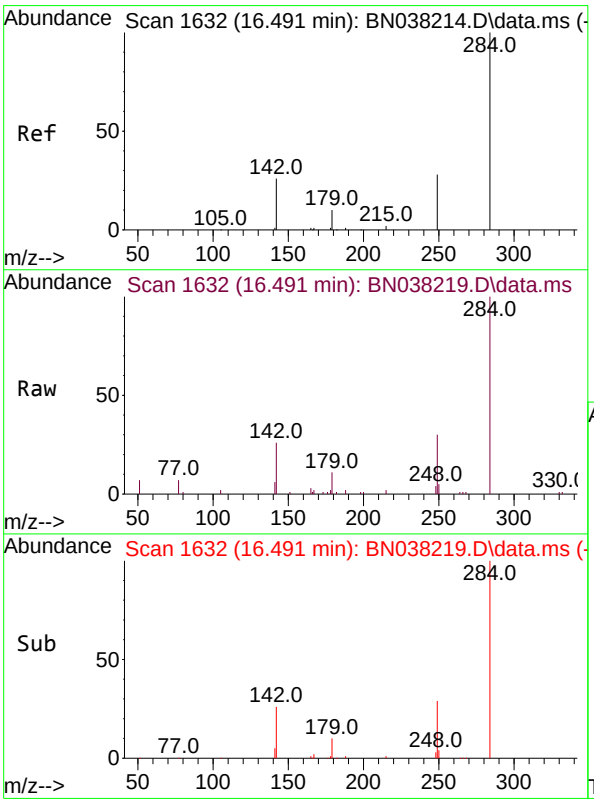
#21
4-Bromophenyl-phenylether
Concen: 0.459 ng
RT: 16.379 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Tgt Ion:248 Resp: 8311

Ion	Ratio	Lower	Upper
248	100		
250	99.8	80.8	121.2
141	45.4	41.0	61.6

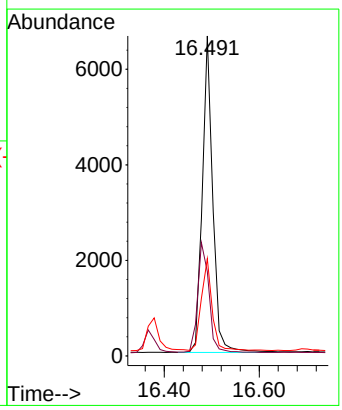


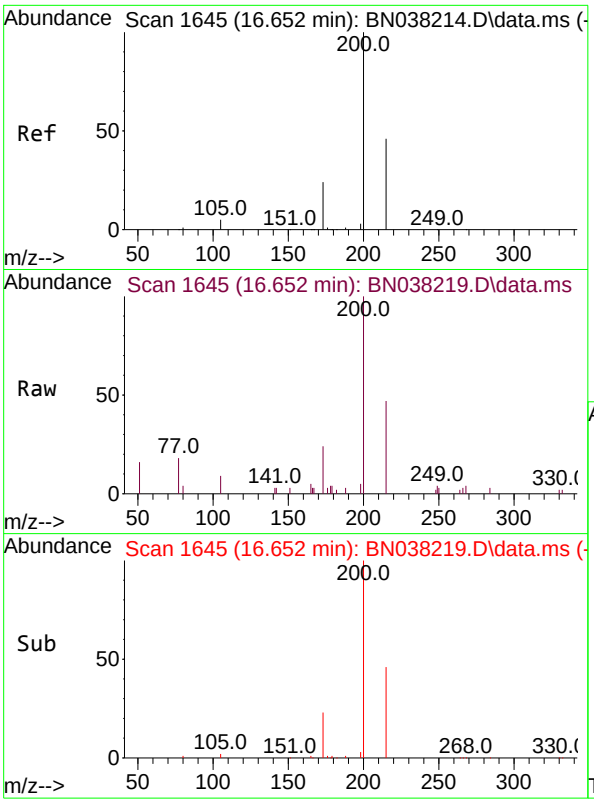


#22
Hexachlorobenzene
Concen: 0.454 ng
RT: 16.491 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion:284 Resp: 10112

Ion	Ratio	Lower	Upper
284	100		
142	37.4	30.5	45.7
249	29.9	23.8	35.8



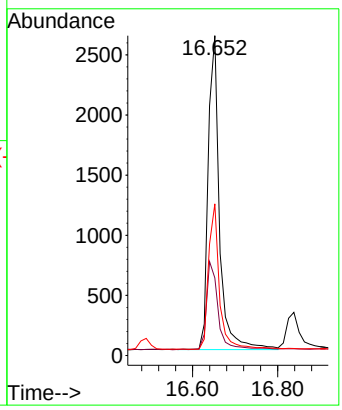


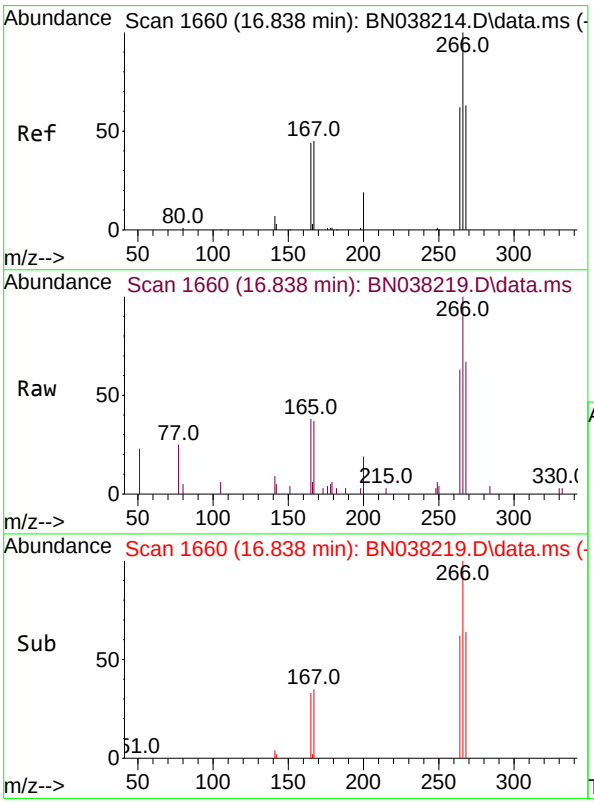
#23
Atrazine
Concen: 0.415 ng
RT: 16.652 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Tgt Ion:200 Resp: 4807

Ion	Ratio	Lower	Upper
200	100		
173	24.2	21.0	31.6
215	47.4	37.8	56.8

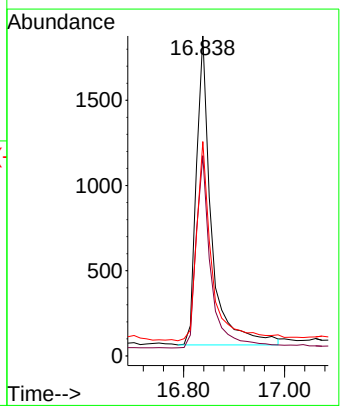


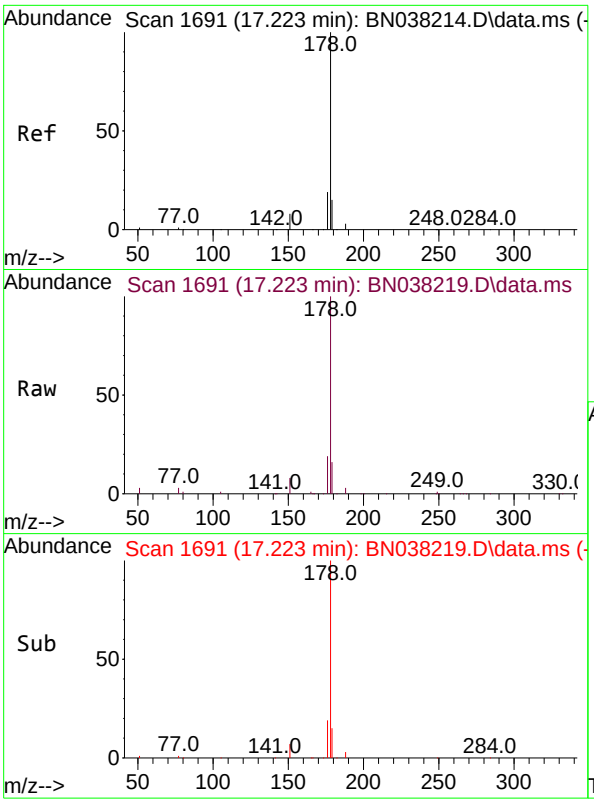


#24
Pentachlorophenol
Concen: 0.609 ng
RT: 16.838 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion:266 Resp: 3722

Ion	Ratio	Lower	Upper
266	100		
264	62.0	48.9	73.3
268	64.9	50.2	75.2



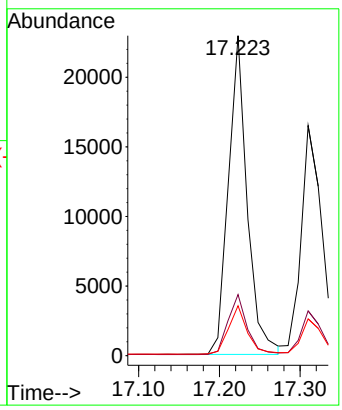


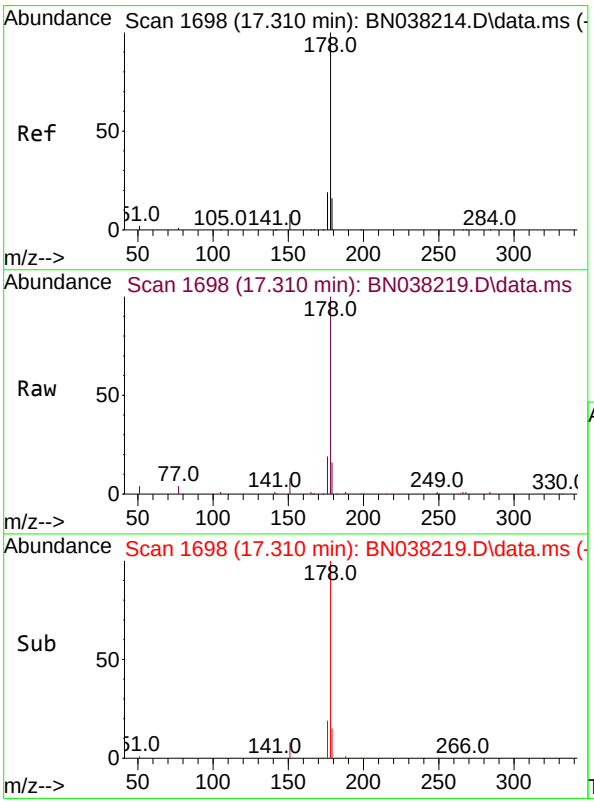
#25
Phenanthrene
Concen: 0.451 ng
RT: 17.223 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Tgt Ion:178 Resp: 37032

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.3	12.0	18.0

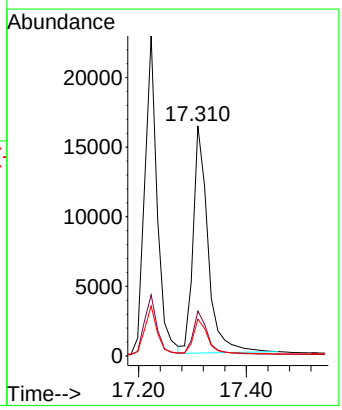


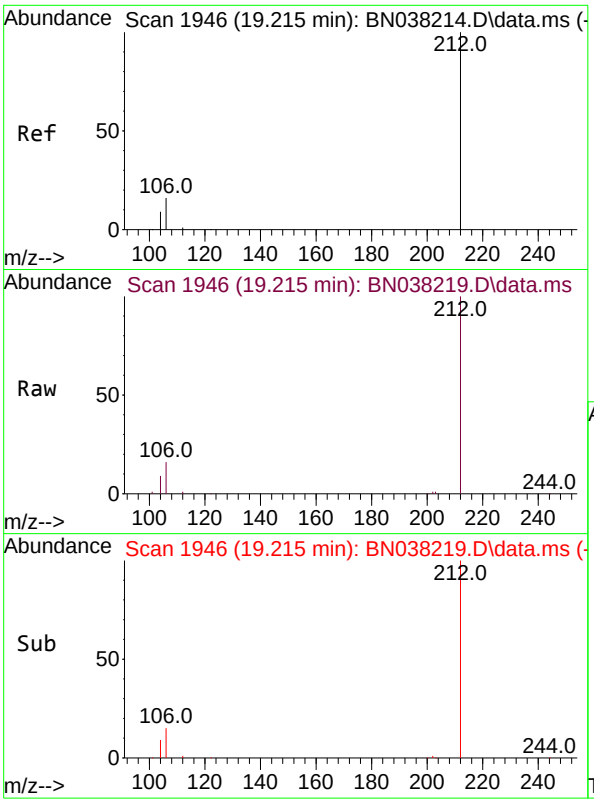


#26
Anthracene
Concen: 0.447 ng
RT: 17.310 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion:178 Resp: 31322

Ion	Ratio	Lower	Upper
178	100		
176	19.0	14.7	22.1
179	15.1	12.3	18.5



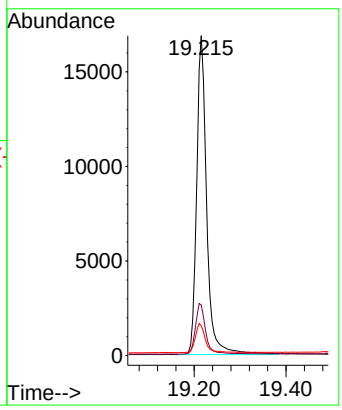


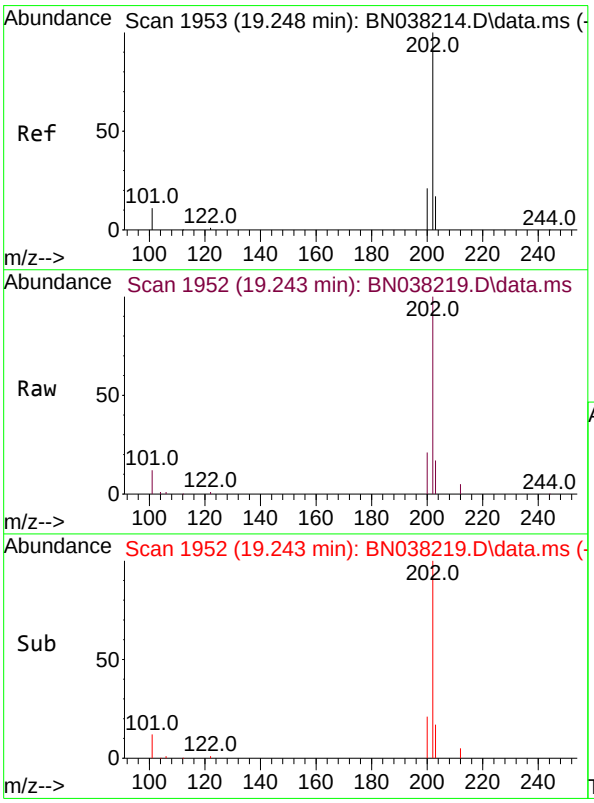
#27
Fluoranthene-d10
Concen: 0.450 ng
RT: 19.215 min Scan# 19
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Tgt Ion:212 Resp: 25558

Ion	Ratio	Lower	Upper
212	100		
106	16.1	12.7	19.1
104	9.1	7.3	10.9

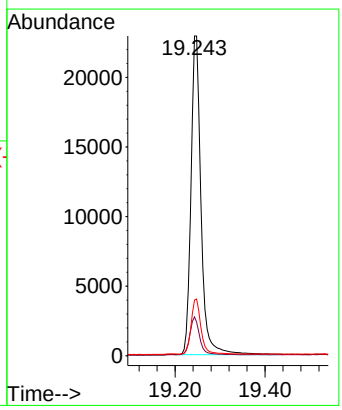


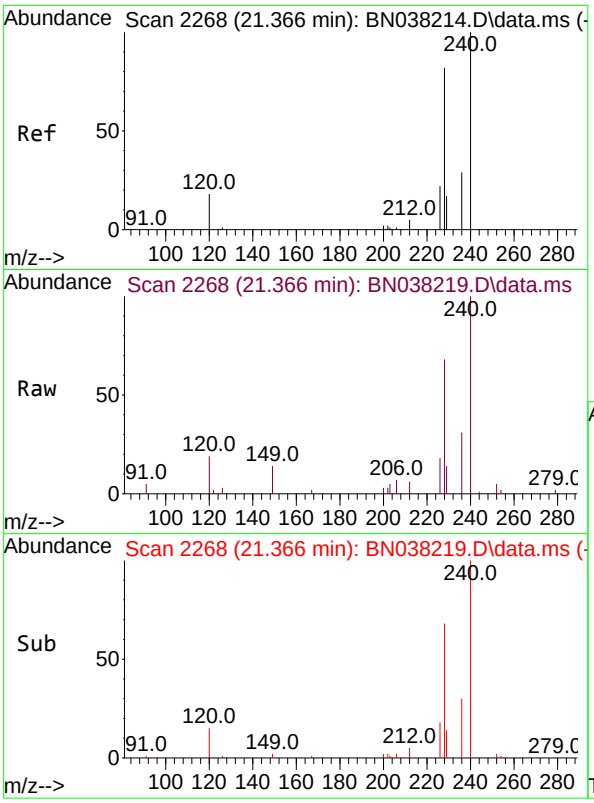


#28
Fluoranthene
Concen: 0.450 ng
RT: 19.243 min Scan# 1952
Delta R.T. -0.005 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion:202 Resp: 35631

Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.8	14.6
203	16.8	13.6	20.4



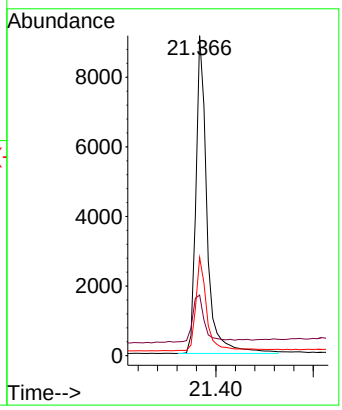


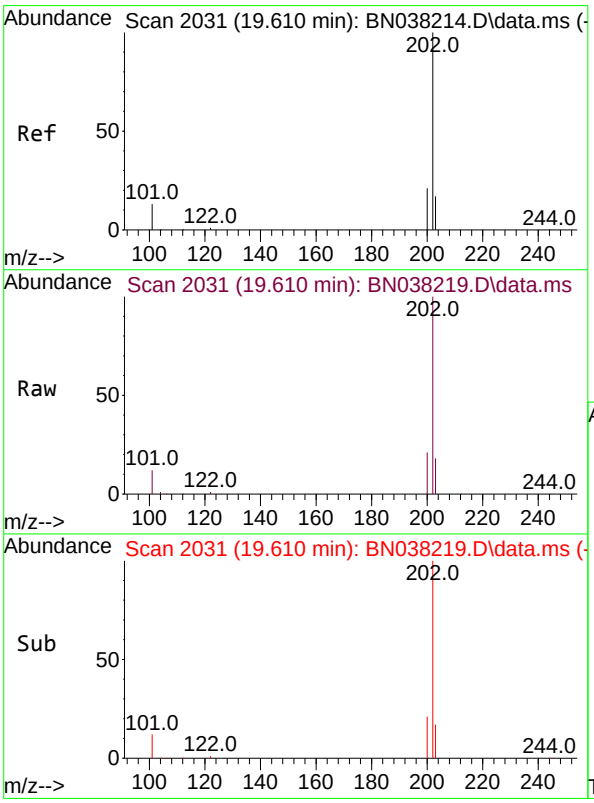
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.366 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Tgt Ion:240 Resp: 14480

Ion	Ratio	Lower	Upper
240	100		
120	18.9	18.1	27.1
236	30.7	24.2	36.4

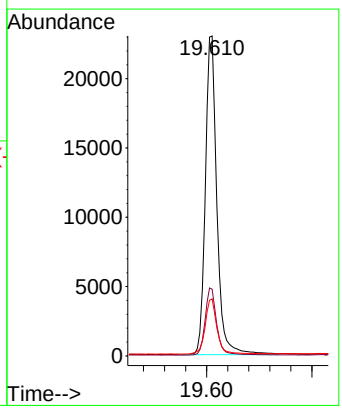


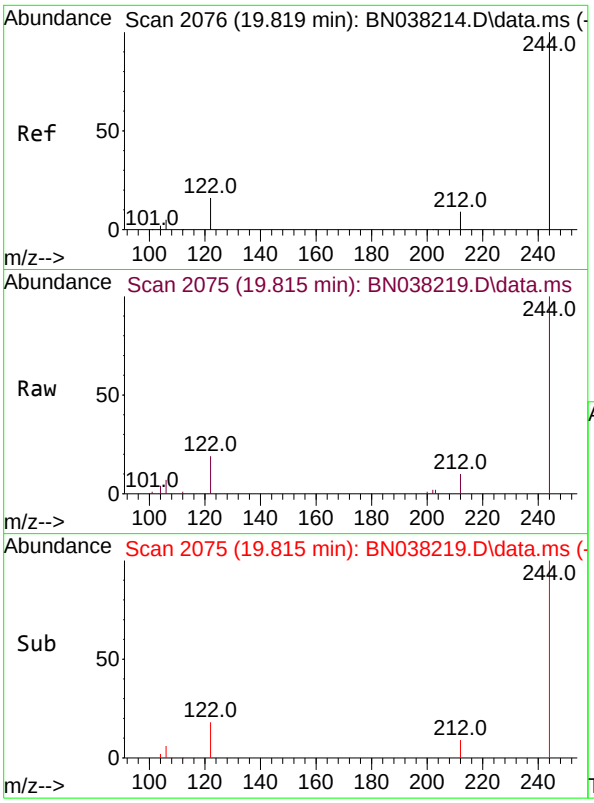


#30
Pyrene
Concen: 0.483 ng
RT: 19.610 min Scan# 2031
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion:202 Resp: 34919

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.8	25.2
203	17.6	14.4	21.6



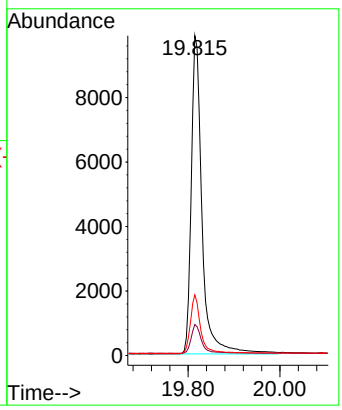


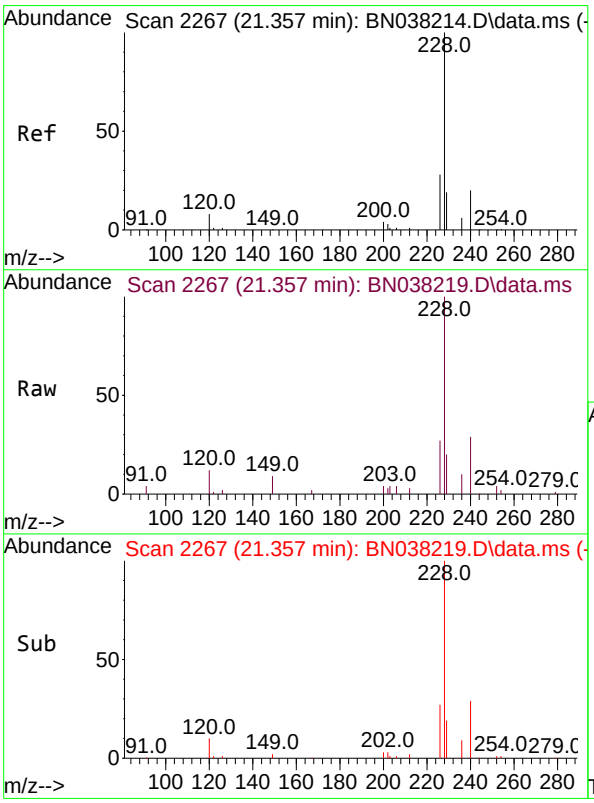
#31
Terphenyl-d14
Concen: 0.481 ng
RT: 19.815 min Scan# 20
Delta R.T. -0.005 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Tgt Ion:244 Resp: 16070

Ion	Ratio	Lower	Upper
244	100		
212	9.7	7.7	11.5
122	19.0	13.6	20.4

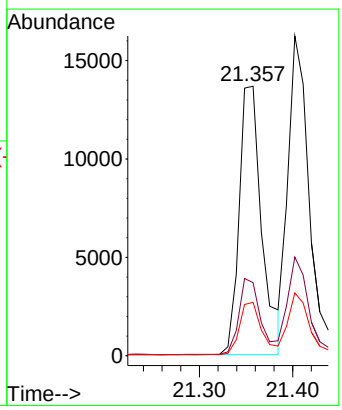


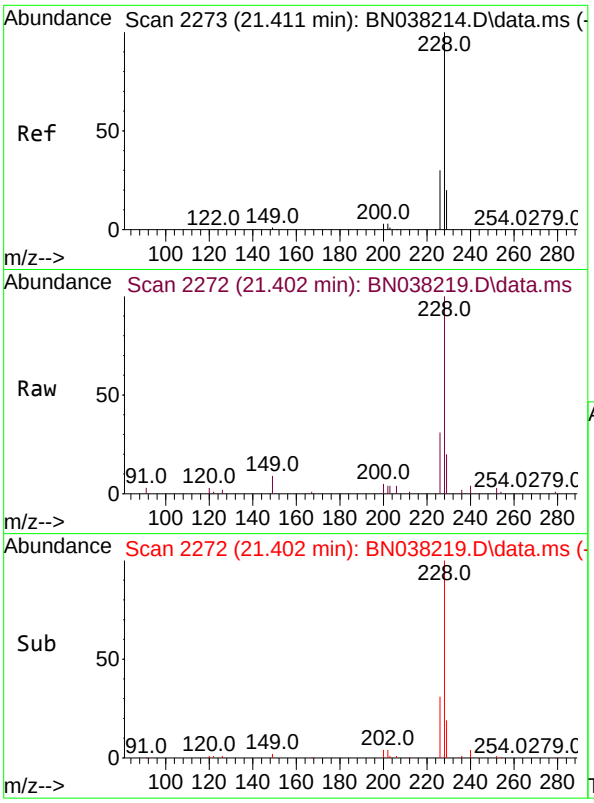


#32
Benzo(a)anthracene
Concen: 0.468 ng
RT: 21.357 min Scan# 2267
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion:228 Resp: 22927

Ion	Ratio	Lower	Upper
228	100		
226	27.2	22.6	33.8
229	19.8	15.8	23.8



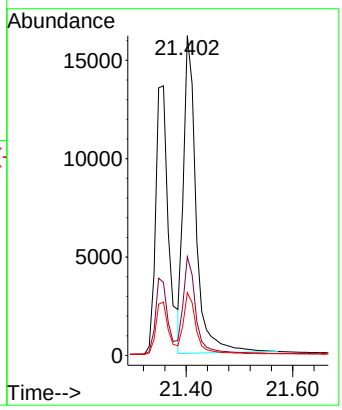


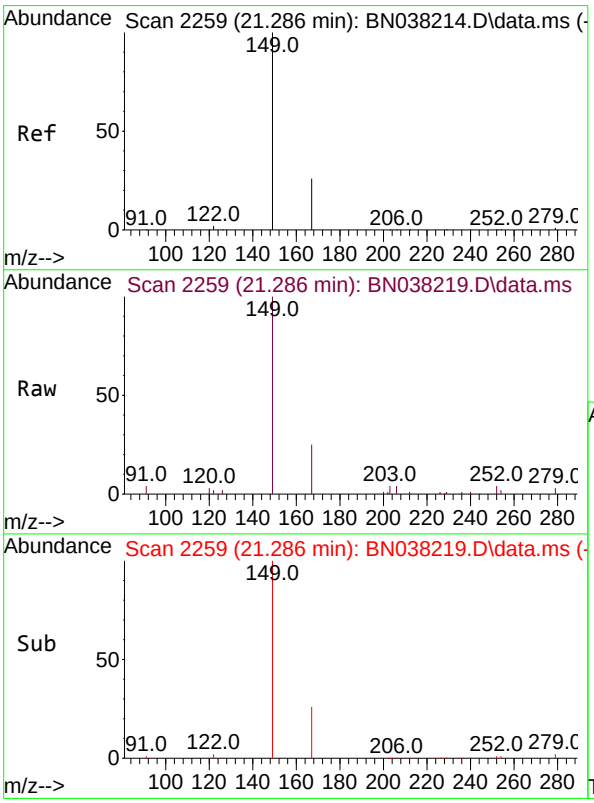
#33
Chrysene
Concen: 0.463 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Tgt Ion:228 Resp: 26769

Ion	Ratio	Lower	Upper
228	100		
226	30.9	23.8	35.8
229	19.7	16.1	24.1

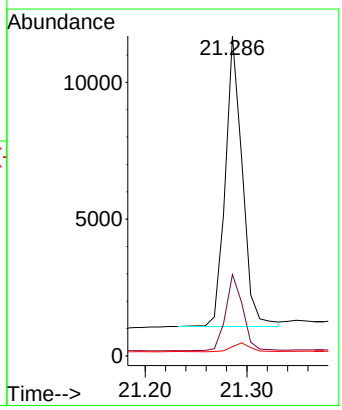


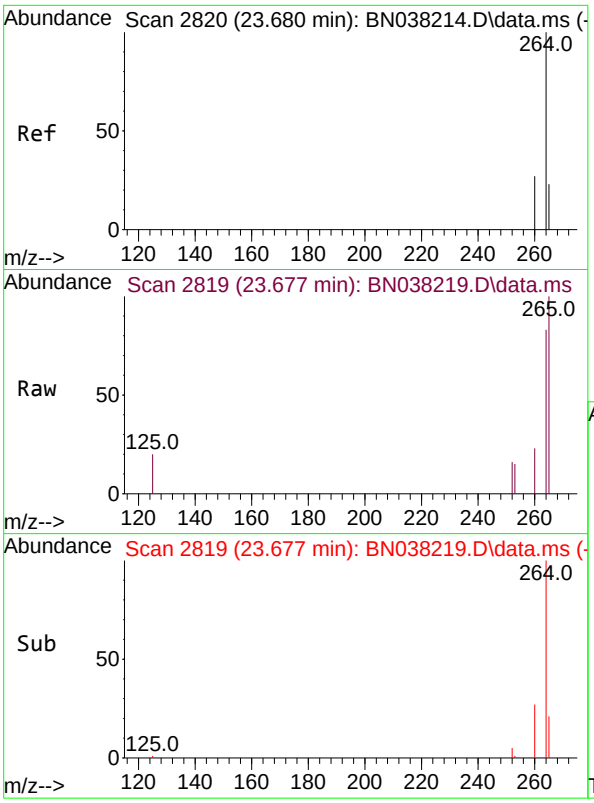


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.462 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion:149 Resp: 12409

Ion	Ratio	Lower	Upper
149	100		
167	26.2	20.7	31.1
279	3.3	2.5	3.7



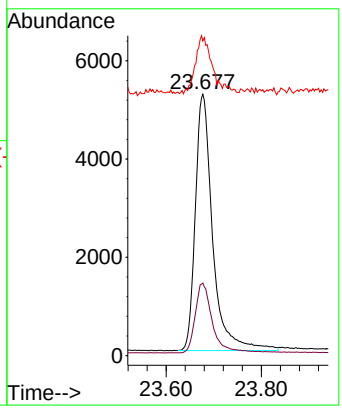


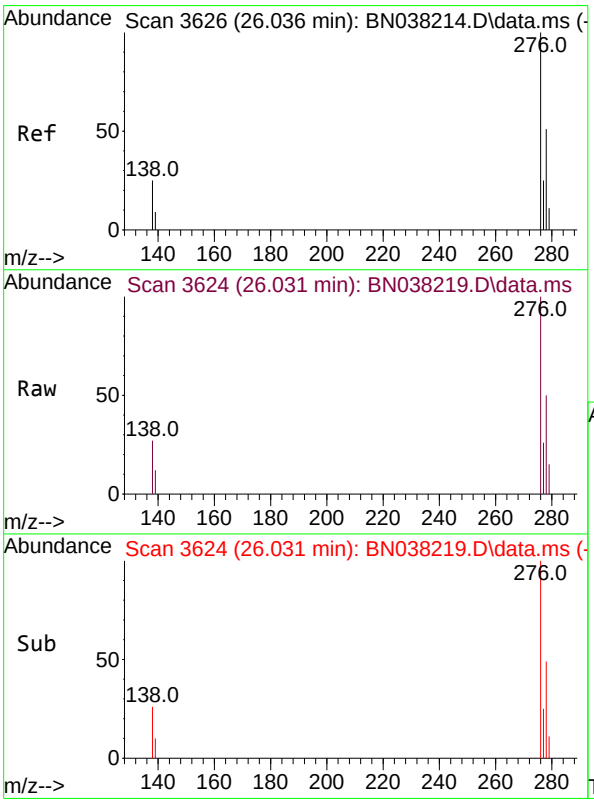
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.677 min Scan# 28
Delta R.T. -0.003 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Tgt Ion:264 Resp: 13201

Ion	Ratio	Lower	Upper
264	100		
260	27.7	21.7	32.5
265	120.4	98.0	147.0

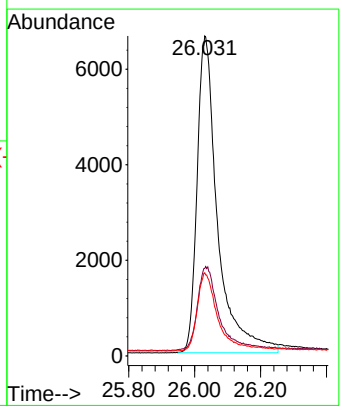


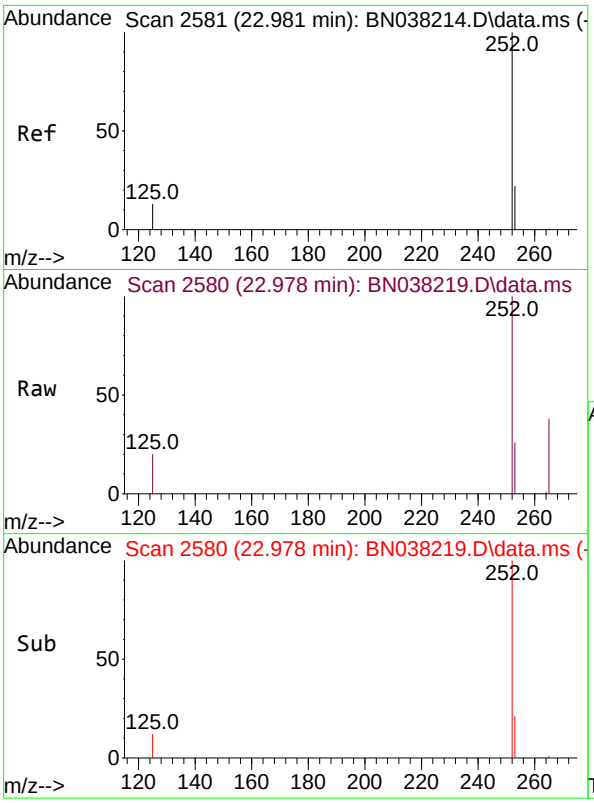


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.468 ng
RT: 26.031 min Scan# 3624
Delta R.T. -0.006 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion:276 Resp: 28585

Ion	Ratio	Lower	Upper
276	100		
138	27.8	21.4	32.2
277	23.9	19.1	28.7



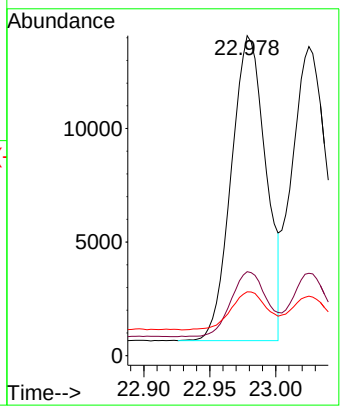


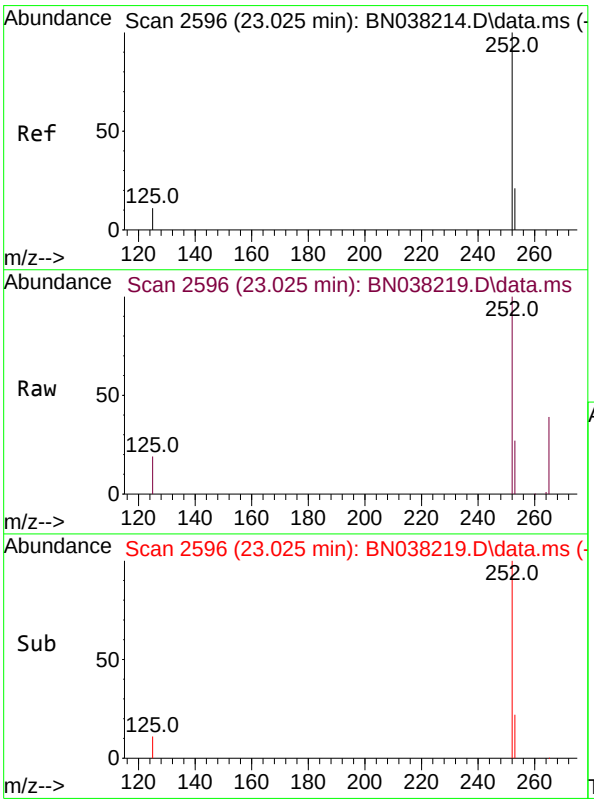
#37
Benzo(b)fluoranthene
Concen: 0.452 ng
RT: 22.978 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Tgt Ion:252 Resp: 24504

Ion	Ratio	Lower	Upper
252	100		
253	26.2	22.2	33.4
125	19.9	18.0	27.0

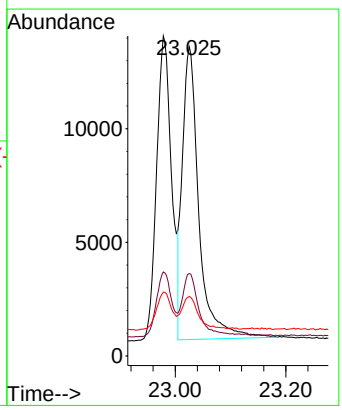


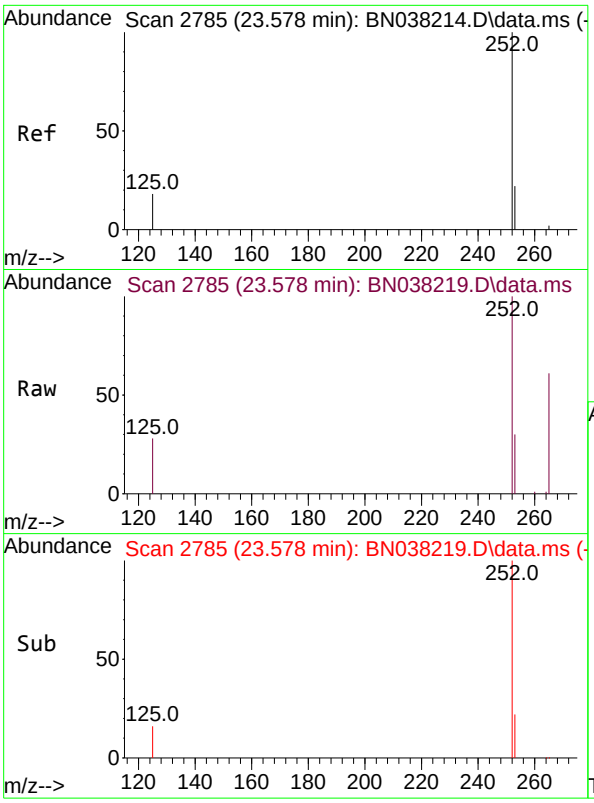


#38
Benzo(k)fluoranthene
Concen: 0.474 ng
RT: 23.025 min Scan# 2596
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion:252 Resp: 26724

Ion	Ratio	Lower	Upper
252	100		
253	26.7	22.4	33.6
125	19.3	17.5	26.3



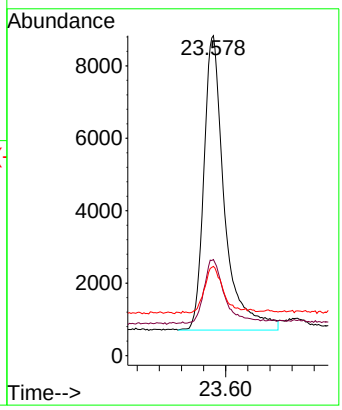


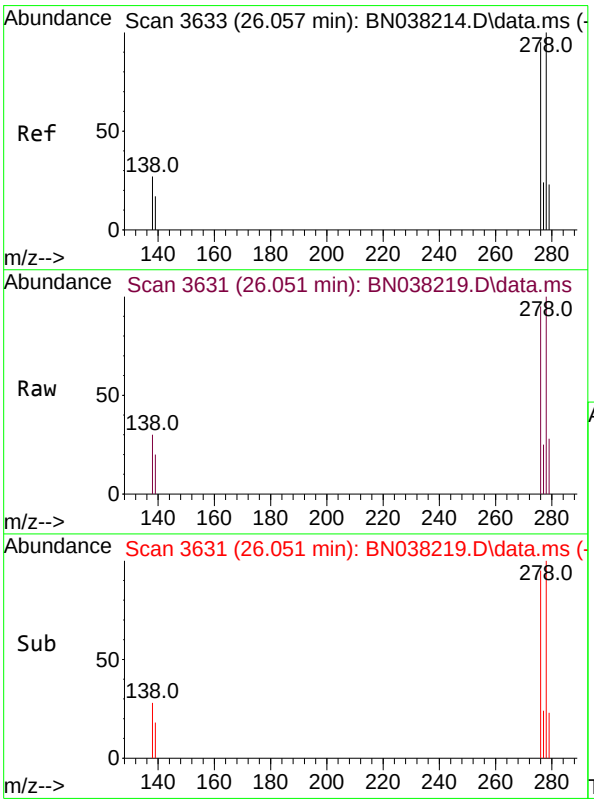
#39
Benzo(a)pyrene
Concen: 0.462 ng
RT: 23.578 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Tgt Ion:252 Resp: 20972

Ion	Ratio	Lower	Upper
252	100		
253	30.0	25.3	37.9
125	27.9	25.2	37.8

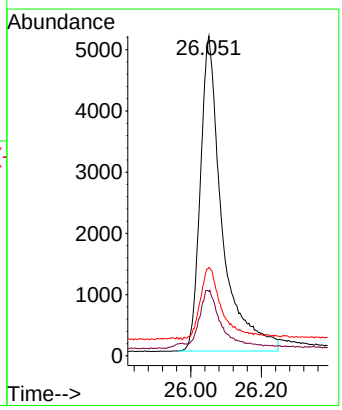


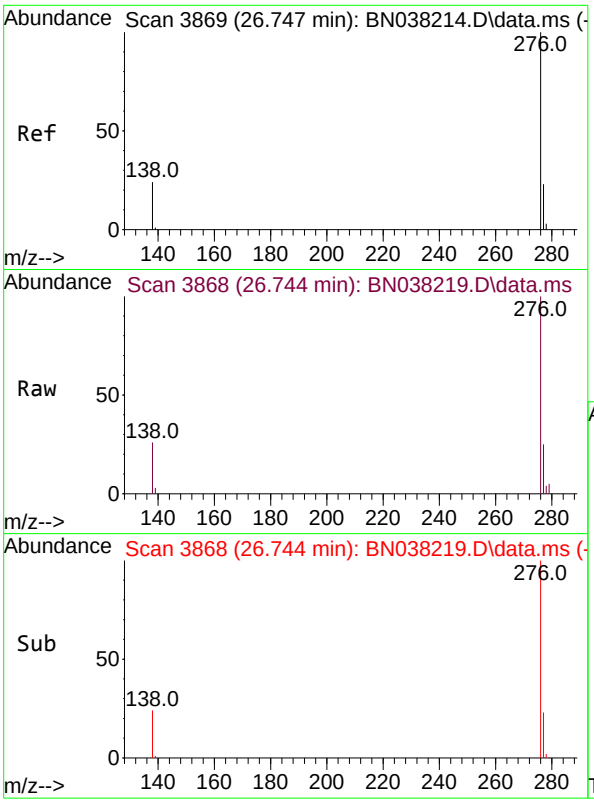


#40
Dibenzo(a,h)anthracene
Concen: 0.475 ng
RT: 26.051 min Scan# 3631
Delta R.T. -0.006 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Tgt Ion:278 Resp: 21955

Ion	Ratio	Lower	Upper
278	100		
139	20.1	17.6	26.4
279	27.6	24.2	36.4



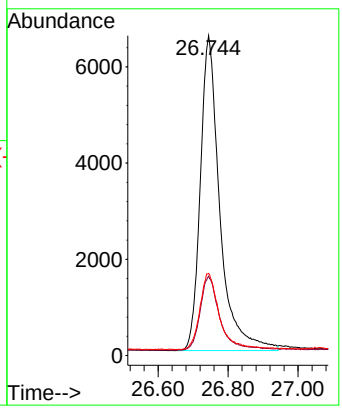


#41
Benzo(g,h,i)perylene
Concen: 0.461 ng
RT: 26.744 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN038219.D
Acq: 27 Nov 2025 00:49

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Tgt Ion:276 Resp: 25311

Ion	Ratio	Lower	Upper
276	100		
277	24.8	20.2	30.2
138	25.7	20.8	31.2



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038219.D
Acq On : 27 Nov 2025 00:49
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Quant Time: Nov 28 20:56:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 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	111	0.00
2		1,4-Dioxane	0.421	0.461	-9.5	114	0.00
3		n-Nitrosodimethylamine	0.520	0.566	-8.8	116	0.00
4	S	2-Fluorophenol	0.935	1.134	-21.3	127	0.00
5	S	Phenol-d6	1.168	1.540	-31.8#	141	0.00
6		bis(2-Chloroethyl)ether	1.118	1.337	-19.6	125	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	113	0.00
8	S	Nitrobenzene-d5	0.320	0.338	-5.6	123	0.00
9		Naphthalene	1.111	1.258	-13.2	123	0.00
10		Hexachlorobutadiene	0.189	0.210	-11.1	119	0.00
11	SURR	2-Methylnaphthalene-d10	0.568	0.669	-17.8	129	0.00
12		2-Methylnaphthalene	0.731	0.854	-16.8	127	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	118	0.00
14	S	2,4,6-Tribromophenol	0.126	0.158	-25.4#	151#	0.00
15	S	2-Fluorobiphenyl	1.545	1.791	-15.9	132	0.00
16		Acenaphthylene	1.789	1.969	-10.1	129	0.00
17		Acenaphthene	1.247	1.422	-14.0	129	0.00
18		Fluorene	1.614	1.866	-15.6	133	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	120	0.00
20		4,6-Dinitro-2-methylphenol	0.042	0.051	-21.4	234#	-0.01
21		4-Bromophenyl-phenylether	0.277	0.318	-14.8	134	0.00
22		Hexachlorobenzene	0.341	0.387	-13.5	129	0.00
23		Atrazine	0.177	0.184	-4.0	126	0.00
24		Pentachlorophenol	0.093	0.142	-52.7#	202#	0.00
25		Phenanthrene	1.256	1.416	-12.7	129	0.00
26		Anthracene	1.071	1.197	-11.8	134	0.00
27	SURR	Fluoranthene-d10	0.868	0.977	-12.6	131	0.00
28		Fluoranthene	1.210	1.362	-12.6	133	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	113	0.00
30		Pyrene	1.998	2.412	-20.7	131	0.00
31	S	Terphenyl-d14	0.924	1.110	-20.1	130	0.00
32		Benzo(a)anthracene	1.355	1.583	-16.8	131	0.00
33		Chrysene	1.599	1.849	-15.6	126	0.00
34		Bis(2-ethylhexyl)phthalate	0.742	0.857	-15.5	121	0.00
35	I	Perylene-d12	1.000	1.000	0.0	110	0.00
36		Indeno(1,2,3-cd)pyrene	1.851	2.165	-17.0	127	0.00
37		Benzo(b)fluoranthene	1.642	1.856	-13.0	120	0.00
38		Benzo(k)fluoranthene	1.707	2.024	-18.6	127	0.00
39	C	Benzo(a)pyrene	1.376	1.589	-15.5	127	0.00
40		Dibenzo(a,h)anthracene	1.401	1.663	-18.7	133	0.00
41		Benzo(g,h,i)perylene	1.674	1.917	-14.5	123	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038219.D
Acq On : 27 Nov 2025 00:49
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Quant Time: Nov 28 20:56:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 20:22:09 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	111	0.00
2		1,4-Dioxane	0.400	0.438	-9.5	114	0.00
3		n-Nitrosodimethylamine	0.400	0.435	-8.7	116	0.00
4	S	2-Fluorophenol	0.400	0.485	-21.2	127	0.00
5	S	Phenol-d6	0.400	0.527	-31.8#	141	0.00
6		bis(2-Chloroethyl)ether	0.400	0.478	-19.5	125	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	113	0.00
8	S	Nitrobenzene-d5	0.400	0.422	-5.5	123	0.00
9		Naphthalene	0.400	0.453	-13.2	123	0.00
10		Hexachlorobutadiene	0.400	0.445	-11.2	119	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.471	-17.7	129	0.00
12		2-Methylnaphthalene	0.400	0.467	-16.8	127	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	118	0.00
14	S	2,4,6-Tribromophenol	0.400	0.504	-26.0#	151	0.00
15	S	2-Fluorobiphenyl	0.400	0.464	-16.0	132	0.00
16		Acenaphthylene	0.400	0.440	-10.0	129	0.00
17		Acenaphthene	0.400	0.456	-14.0	129	0.00
18		Fluorene	0.400	0.463	-15.8	133	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	120	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.648	-62.0#	234	-0.01
21		4-Bromophenyl-phenylether	0.400	0.459	-14.8	134	0.00
22		Hexachlorobenzene	0.400	0.454	-13.5	129	0.00
23		Atrazine	0.400	0.415	-3.7	126	0.00
24		Pentachlorophenol	0.400	0.609	-52.2#	202	0.00
25		Phenanthrene	0.400	0.451	-12.7	129	0.00
26		Anthracene	0.400	0.447	-11.7	134	0.00
27	SURR	Fluoranthene-d10	0.400	0.450	-12.5	131	0.00
28		Fluoranthene	0.400	0.450	-12.5	133	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	113	0.00
30		Pyrene	0.400	0.483	-20.7	131	0.00
31	S	Terphenyl-d14	0.400	0.481	-20.2	130	0.00
32		Benzo(a)anthracene	0.400	0.468	-17.0	131	0.00
33		Chrysene	0.400	0.463	-15.8	126	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.462	-15.5	121	0.00
35	I	Perylene-d12	0.400	0.400	0.0	110	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.468	-17.0	127	0.00
37		Benzo(b)fluoranthene	0.400	0.452	-13.0	120	0.00
38		Benzo(k)fluoranthene	0.400	0.474	-18.5	127	0.00
39	C	Benzo(a)pyrene	0.400	0.462	-15.5	127	0.00
40		Dibenzo(a,h)anthracene	0.400	0.475	-18.7	133	0.00
41		Benzo(g,h,i)perylene	0.400	0.461	-15.3	123	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
ClientSampleId :
ICVBN112725

Raw Data

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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: JACO05

Lab Code: ACE SDG No.: Q3756

Instrument ID: BNA_N Calibration Date(s): 12/10/2025 12/10/2025

Calibration Time(s): 09:52 13:30

LAB FILE ID: RRF0.1 = BN038298.D RRF0.2 = BN038299.D RRF0.4 = BN038300.D
RRF0.8 = BN038301.D RRF1.6 = BN038302.D RRF3.2 = BN038303.D

COMPOUND	RRF0.1	RRF0.2	RRF0.4	RRF0.8	RRF1.6	RRF3.2	RRF	% RSD
2-Methylnaphthalene-d10	0.543	0.548	0.549	0.554	0.559	0.598	0.564	4.2
Fluoranthene-d10	0.930	0.947	0.984	0.983	0.984	1.045	0.990	4.6
2-Fluorophenol	0.954	1.034	0.988	0.981	0.978	1.020	0.996	2.9
Phenol-d6	1.098	1.157	1.151	1.158	1.186	1.263	1.184	5.4
Nitrobenzene-d5	0.325	0.324	0.329	0.332	0.334	0.358	0.337	4.4
2-Fluorobiphenyl	1.940	1.951	1.927	1.838	1.874	2.046	1.914	4.1
2,4,6-Tribromophenol	0.165	0.162	0.167	0.168	0.175	0.196	0.177	9.5
Terphenyl-d14	0.913	0.917	0.881	0.880	0.863	0.893	0.893	2.2
1,4-Dioxane		0.506	0.465	0.443	0.442	0.456	0.459	5.5

All other compounds must meet a minimum RRF of 0.010.

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN121025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Dec 10 13:56:50 2025
Response Via : Initial Calibration

Calibration Files
0.1 =BN038298.D 0.2 =BN038299.D 0.4 =BN038300.D 0.8 =BN038301.D 1.6 =BN038302.D 3.2 =BN038303.D 5 =BN038304.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	0.465	0.443	0.442	0.456	0.440	0.459	5.48
3)		n-Nitrosodimet...		0.568	0.572	0.568	0.577	0.590	0.574	0.575	1.42
4)	S	2-Fluorophenol	0.954	1.034	0.988	0.981	0.978	1.020	1.019	0.996	2.88
5)	S	Phenol-d6	1.098	1.157	1.151	1.158	1.186	1.263	1.277	1.184	5.44
6)		bis(2-Chloroet...	1.156	1.171	1.166	1.149	1.144	1.176	1.147	1.158	1.10
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.325	0.324	0.329	0.332	0.334	0.358	0.359	0.337	4.38
9)		Naphthalene	1.174	1.185	1.168	1.155	1.159	1.231	1.205	1.182	2.30
10)		Hexachlorobuta...	0.218	0.213	0.210	0.207	0.205	0.212	0.206	0.210	2.24
11)	SURR	2-Methylnaphth...	0.543	0.548	0.549	0.554	0.559	0.598	0.599	0.564	4.23
12)		2-Methylnaphth...	0.722	0.735	0.731	0.737	0.747	0.794	0.789	0.751	3.85
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.167	0.163	0.167	0.169	0.175	0.197	0.205	0.177	9.30
15)	S	2-Fluorobiphenyl	1.940	1.951	1.974	1.838	1.897	2.070	1.819	1.927	4.45
16)		Acenaphthylene	1.890	1.885	1.903	1.918	1.931	2.131	2.092	1.964	5.21
17)		Acenaphthene	1.311	1.329	1.342	1.351	1.358	1.460	1.430	1.369	4.01
18)		Fluorene	1.790	1.706	1.707	1.735	1.727	1.858	1.802	1.761	3.24
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...		0.054	0.057	0.064	0.069	0.085		0.066	18.62
21)		4-Bromophenyl-...	0.288	0.291	0.287	0.291	0.293	0.310	0.318	0.297	4.12
22)		Hexachlorobenzene	0.370	0.366	0.350	0.350	0.347	0.358	0.357	0.357	2.40
23)		Atrazine	0.184	0.196	0.190	0.197	0.200	0.221	0.229	0.202	8.11
24)		Pentachlorophenol		0.124	0.121	0.126	0.134	0.156	0.174	0.139	15.30
25)		Phenanthrene	1.412	1.373	1.363	1.350	1.353	1.439	1.456	1.392	3.12
26)		Anthracene	1.149	1.119	1.141	1.184	1.186	1.300	1.323	1.200	6.67
27)	SURR	Fluoranthene-d10	0.928	0.947	0.984	0.983	0.984	1.045	1.053	0.989	4.66
28)		Fluoranthene	1.419	1.413	1.459	1.466	1.473	1.562	1.566	1.480	4.17
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	2.038	1.968	1.920	1.909	1.890	2.022	2.037	1.969	3.25
31)	S	Terphenyl-d14	0.913	0.917	0.881	0.879	0.863	0.893	0.903	0.893	2.20
32)		Benzo(a)anthra...	1.476	1.537	1.479	1.501	1.513	1.638	1.672	1.545	5.08
33)		Chrysene	1.653	1.712	1.721	1.709	1.674	1.745	1.697	1.701	1.79
34)		Bis(2-ethylhex...		1.002	0.845	0.779	0.754	0.828	0.879	0.848	10.38
35)	I	Perylene-d12	----------ISTD----------								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN121025.M

36)		Indeno(1,2,3-c...	1.813	2.040	2.122	2.116	2.115	2.321	2.330	2.123	8.27
37)		Benzo(b)fluora...	1.673	1.831	1.783	1.776	1.827	1.987	1.984	1.837	6.18
38)		Benzo(k)fluora...	1.597	1.793	1.796	1.812	1.823	2.006	1.994	1.832	7.57
39)	C	Benzo(a)pyrene	1.355	1.459	1.469	1.459	1.479	1.640	1.663	1.503	7.27
40)		Dibenzo(a,h)an...	1.396	1.521	1.619	1.624	1.651	1.823	1.822	1.637	9.37
41)		Benzo(g,h,i)pe...	1.622	1.816	1.812	1.806	1.818	1.966	1.964	1.829	6.34

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121025\
Data File : BN038298.D
Acq On : 10 Dec 2025 09:52
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Dec 10 13:58:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	6259	0.400	ng		0.00
7) Naphthalene-d8	10.520	136	16430	0.400	ng		#-0.01
13) Acenaphthene-d10	14.388	164	8491	0.400	ng		-0.01
19) Phenanthrene-d10	17.149	188	15796	0.400	ng		0.00
29) Chrysene-d12	21.340	240	11291	0.400	ng		0.00
35) Perylene-d12	23.633	264	10537	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.291	112	1492	0.096	ng		0.00
5) Phenol-d6	6.887	99	1718	0.093	ng		0.00
8) Nitrobenzene-d5	8.875	82	1335	0.096	ng		0.00
11) 2-Methylnaphthalene-d10	12.126	152	2230	0.096	ng		0.00
14) 2,4,6-Tribromophenol	15.895	330	351	0.093	ng		0.00
15) 2-Fluorobiphenyl	13.009	172	4119	0.101	ng		0.00
27) Fluoranthene-d10	19.188	212	3672	0.094	ng		0.00
31) Terphenyl-d14	19.787	244	2576	0.102	ng		0.00
Target Compounds							Qvalue
6) bis(2-Chloroethyl)ether	7.147	93	1809	0.100	ng		99
9) Naphthalene	10.573	128	4821	0.099	ng		96
10) Hexachlorobutadiene	10.872	225	896	0.104	ng	#	99
12) 2-Methylnaphthalene	12.202	142	2965	0.096	ng		98
16) Acenaphthylene	14.110	152	4012	0.096	ng		99
17) Acenaphthene	14.452	154	2783	0.096	ng		95
18) Fluorene	15.446	166	3800	0.102	ng		98
21) 4-Bromophenyl-phenylether	16.342	248	1138	0.097	ng		96
22) Hexachlorobenzene	16.454	284	1462	0.104	ng		97
23) Atrazine	16.615	200	727	0.091	ng	#	94
25) Phenanthrene	17.186	178	5585	0.102	ng		100
26) Anthracene	17.273	178	4544	0.096	ng		99
28) Fluoranthene	19.215	202	5615	0.096	ng		99
30) Pyrene	19.578	202	5753	0.103	ng		100
32) Benzo(a)anthracene	21.331	228	4166	0.096	ng		98
33) Chrysene	21.375	228	4665	0.097	ng		98
36) Indeno(1,2,3-cd)pyrene	25.967	276	4777	0.085	ng		98
37) Benzo(b)fluoranthene	22.943	252	4408	0.091	ng	#	64
38) Benzo(k)fluoranthene	22.990	252	4206	0.087	ng	#	62
39) Benzo(a)pyrene	23.534	252	3570	0.090	ng	#	55
40) Dibenzo(a,h)anthracene	25.987	278	3677	0.085	ng	#	75
41) Benzo(g,h,i)perylene	26.671	276	4274	0.089	ng	#	87

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

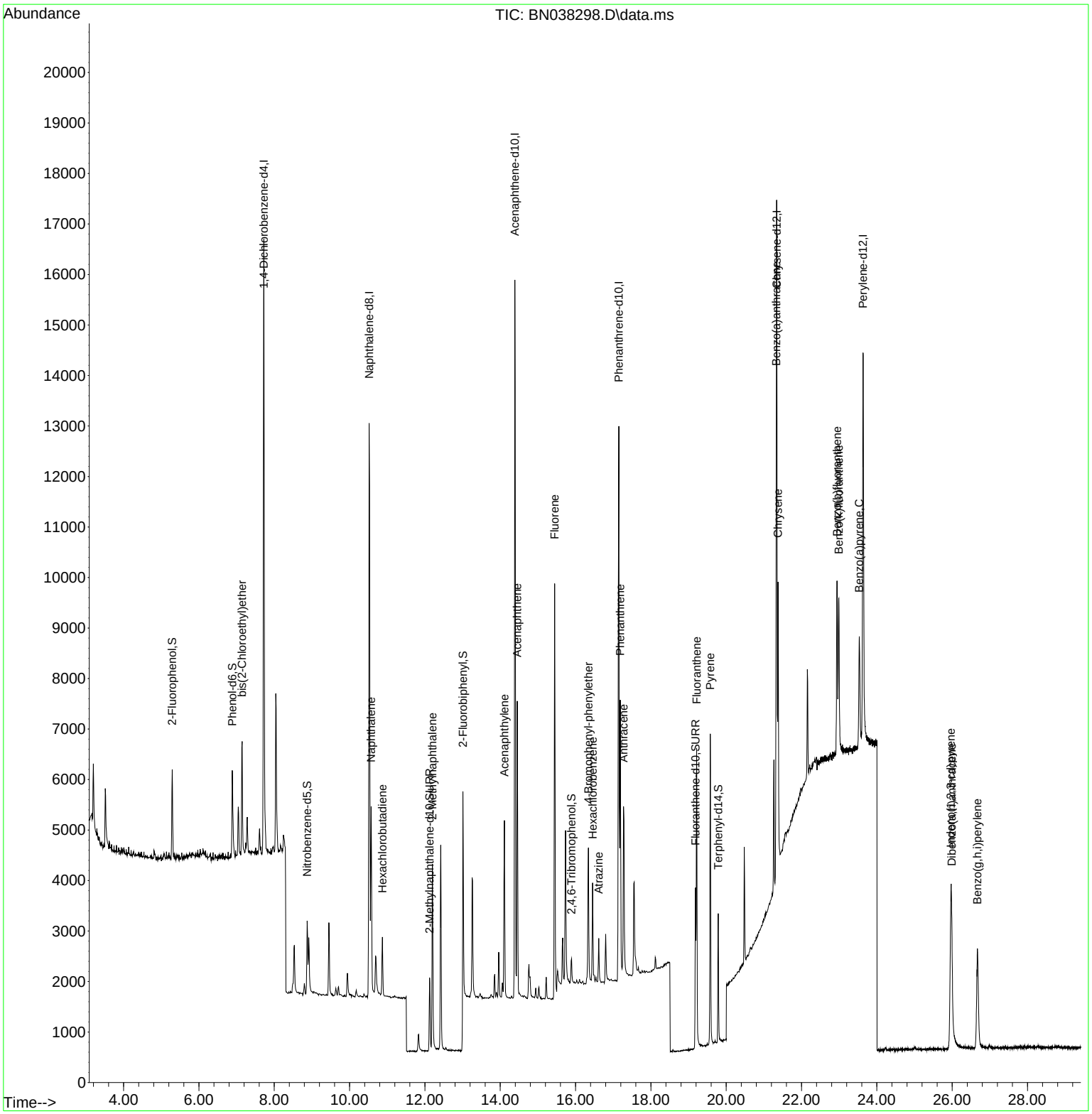
Quantitation Report (QT Reviewed)

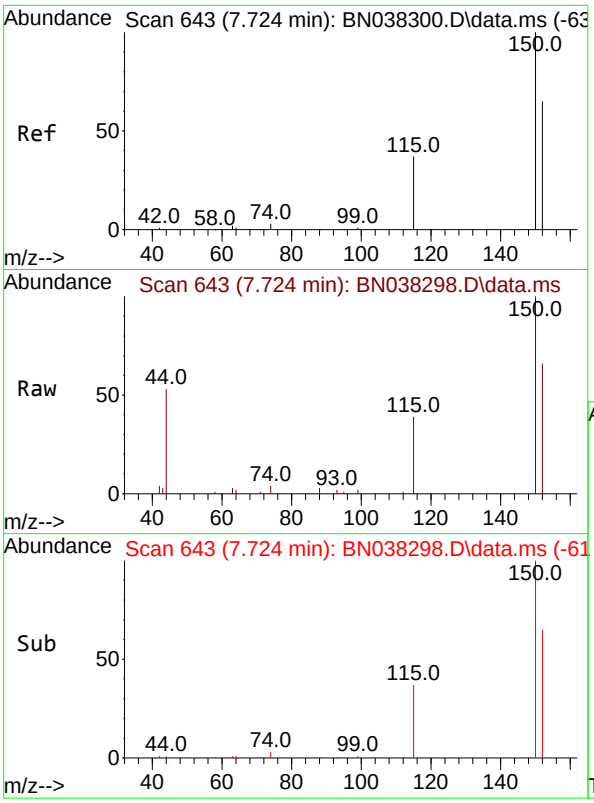
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121025\
Data File : BN038298.D
Acq On : 10 Dec 2025 09:52
Operator : RC/JU
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Dec 10 13:58:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration



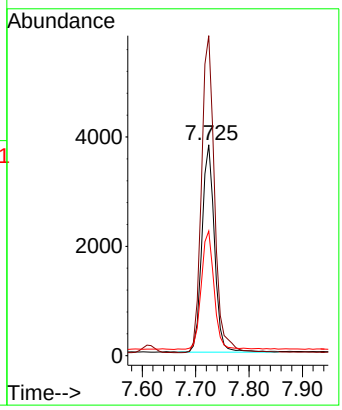


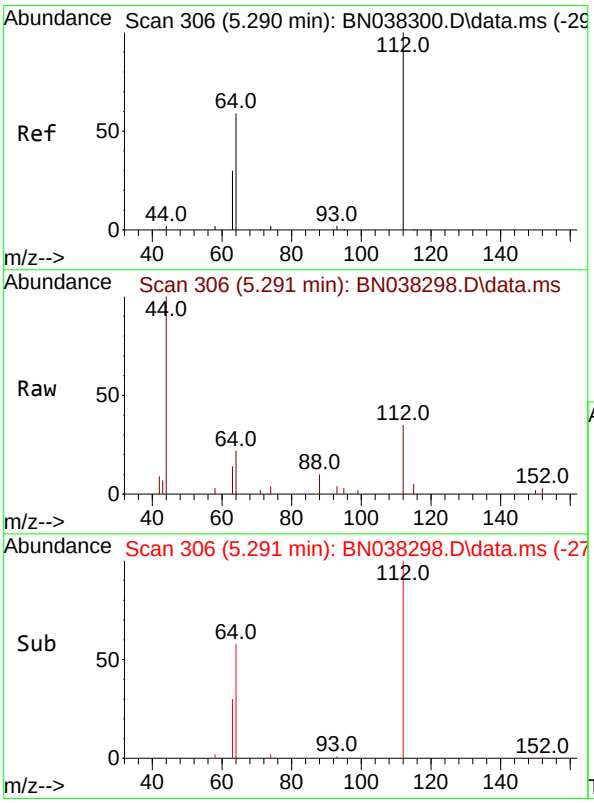
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 6259

Ion	Ratio	Lower	Upper
152	100		
150	151.8	122.4	183.6
115	59.1	47.3	70.9

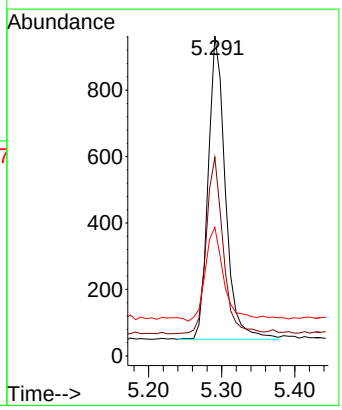


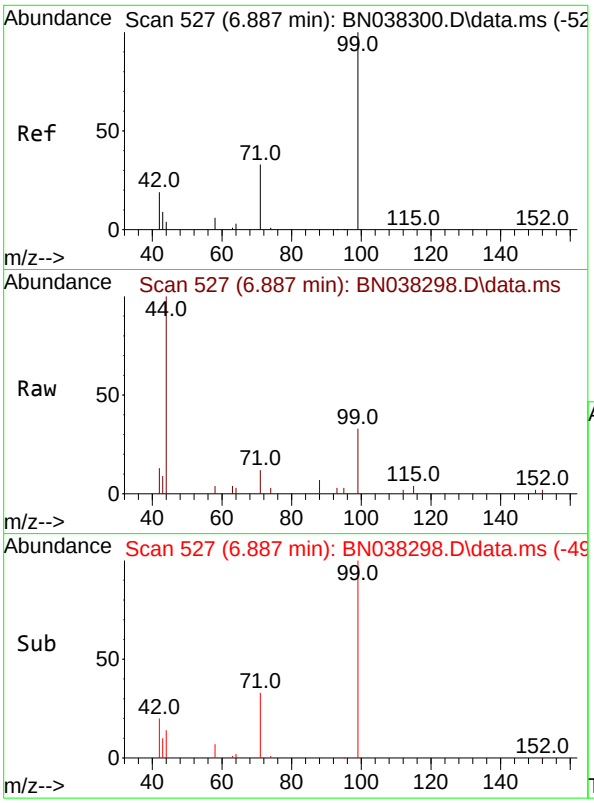


#4
2-Fluorophenol
Concen: 0.096 ng
RT: 5.291 min Scan# 306
Delta R.T. 0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Tgt Ion:112 Resp: 1492

Ion	Ratio	Lower	Upper
112	100		
64	56.7	44.4	66.6
63	33.1	23.4	35.0



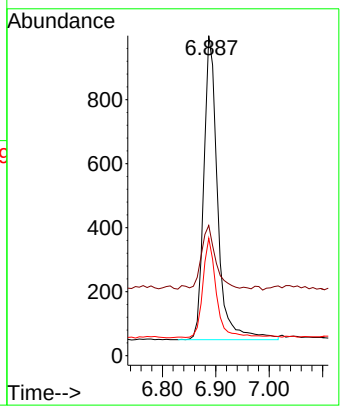


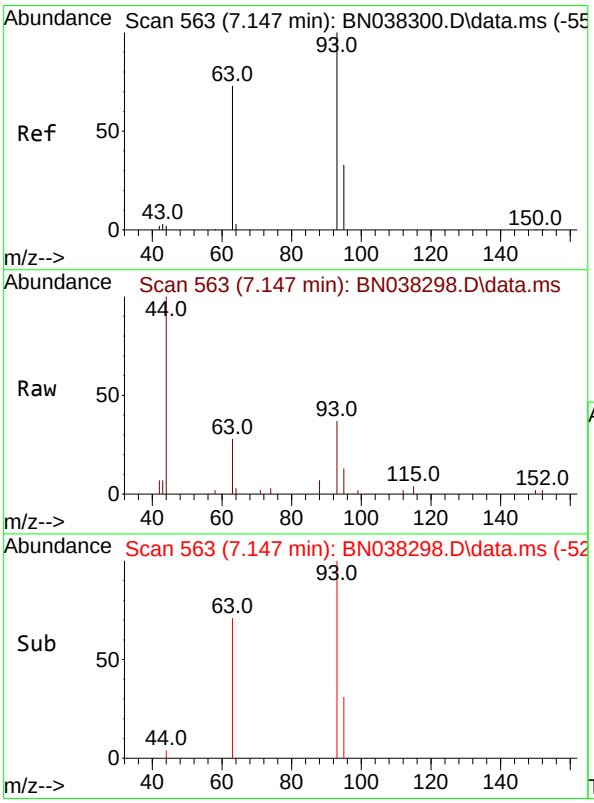
#5
Phenol-d6
Concen: 0.093 ng
RT: 6.887 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 1718

Ion	Ratio	Lower	Upper
99	100		
42	22.1	16.5	24.7
71	32.3	24.9	37.3

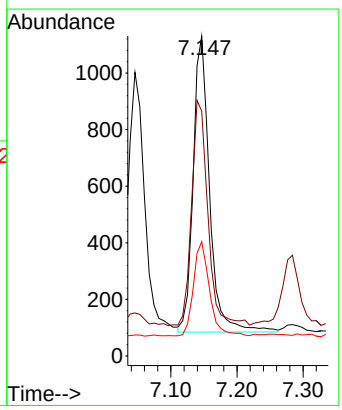


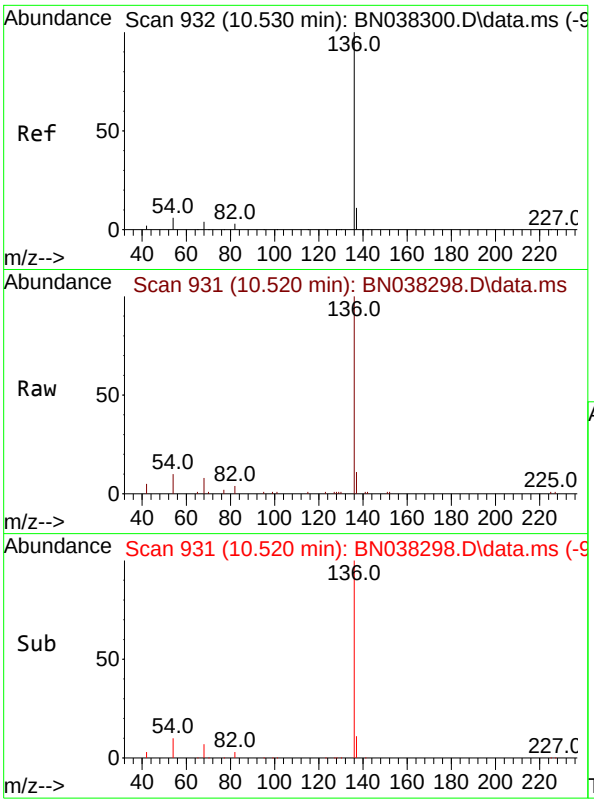


#6
bis(2-Chloroethyl)ether
Concen: 0.100 ng
RT: 7.147 min Scan# 563
Delta R.T. 0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Tgt Ion: 93 Resp: 1809

Ion	Ratio	Lower	Upper
93	100		
63	75.2	59.2	88.8
95	31.2	25.2	37.8



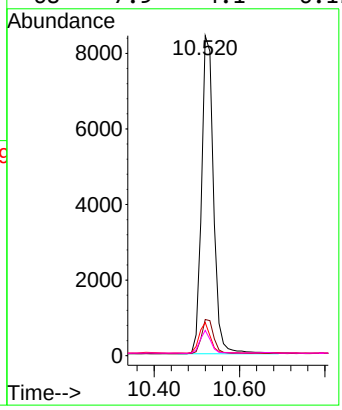


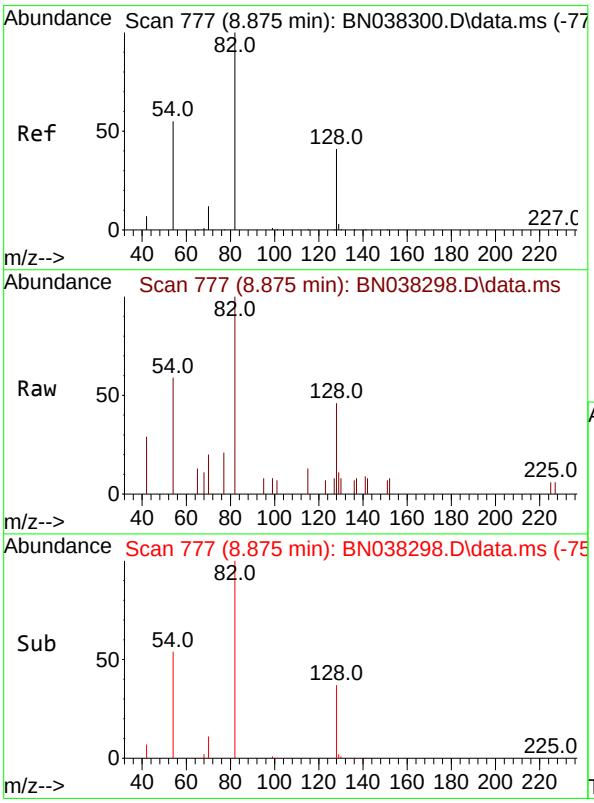
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.520 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:136 Resp: 16430

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.1	13.7
54	10.4	5.2	7.8#
68	7.9	4.1	6.1#

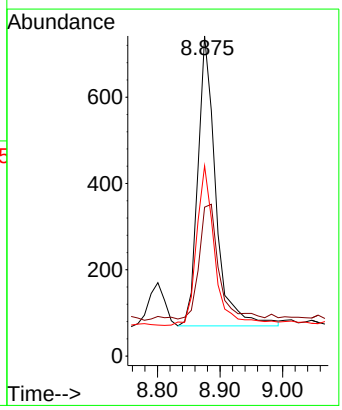


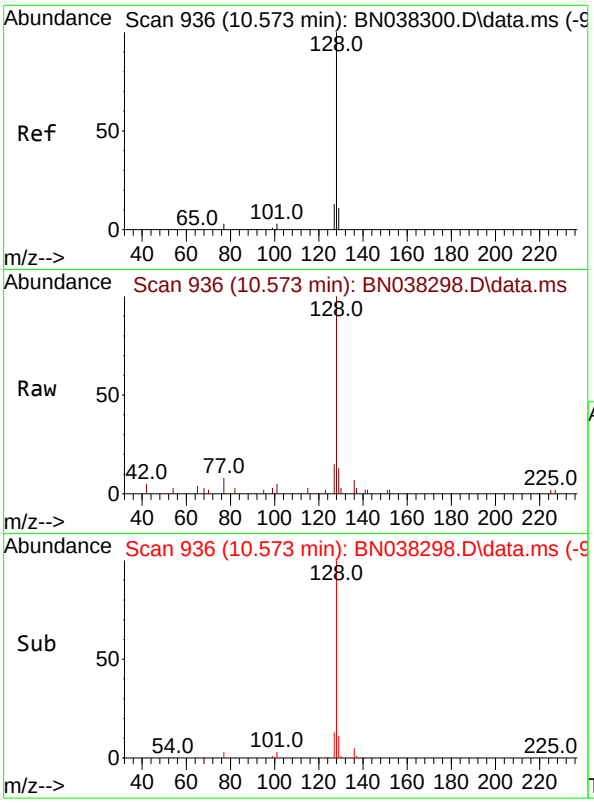


#8
Nitrobenzene-d5
Concen: 0.096 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Tgt Ion: 82 Resp: 1335

Ion	Ratio	Lower	Upper
82	100		
128	46.5	34.0	51.0
54	59.4	44.4	66.6



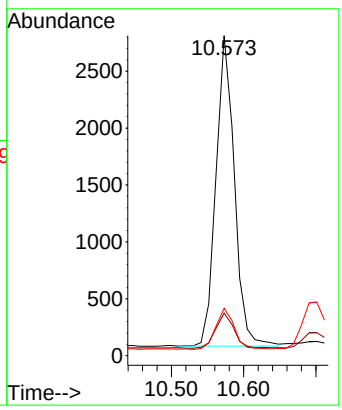


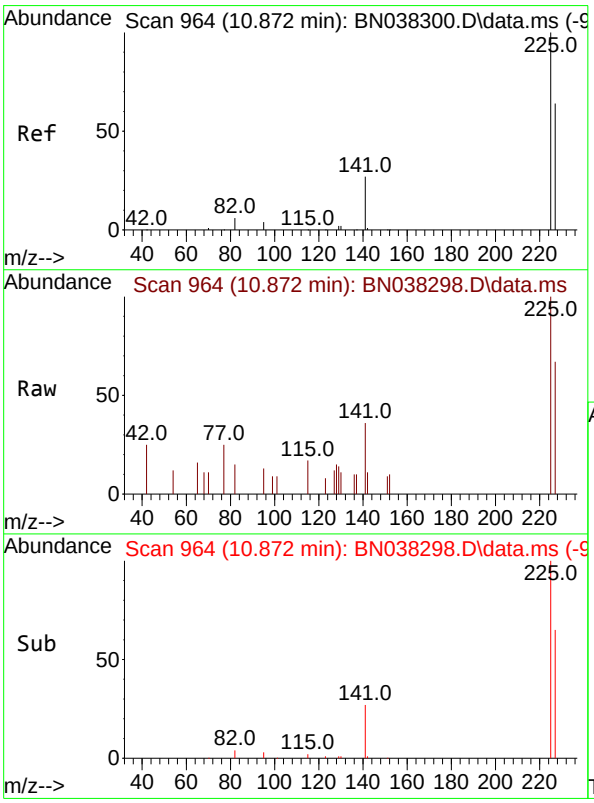
#9
Naphthalene
Concen: 0.099 ng
RT: 10.573 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 4821

Ion	Ratio	Lower	Upper
128	100		
129	13.3	9.1	13.7
127	14.8	10.9	16.3

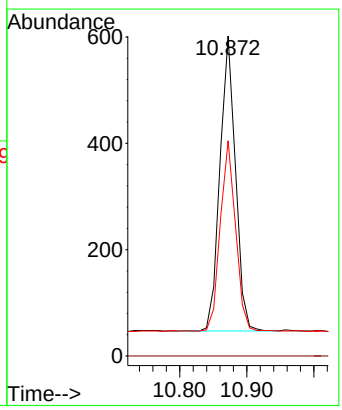


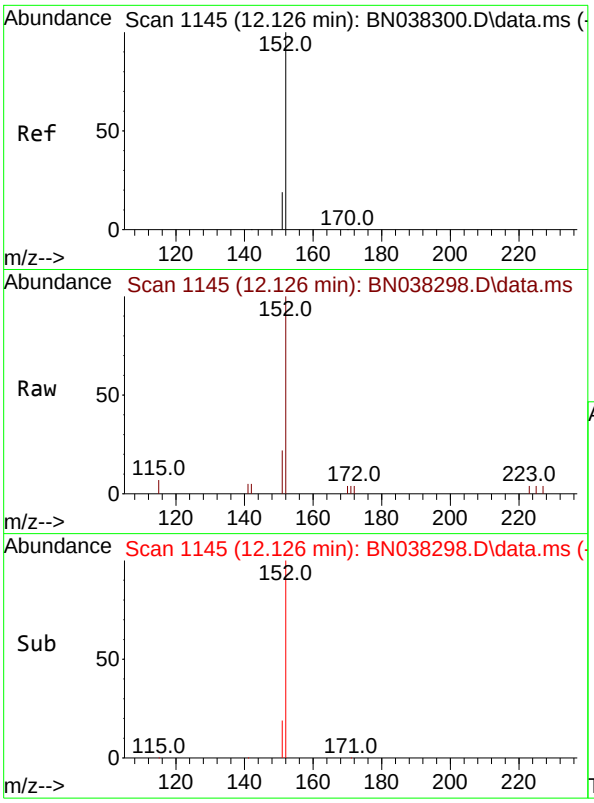


#10
Hexachlorobutadiene
Concen: 0.104 ng
RT: 10.872 min Scan# 964
Delta R.T. 0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Tgt Ion:225 Resp: 896

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.2	51.2	76.8



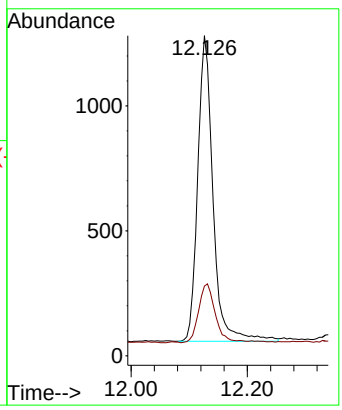


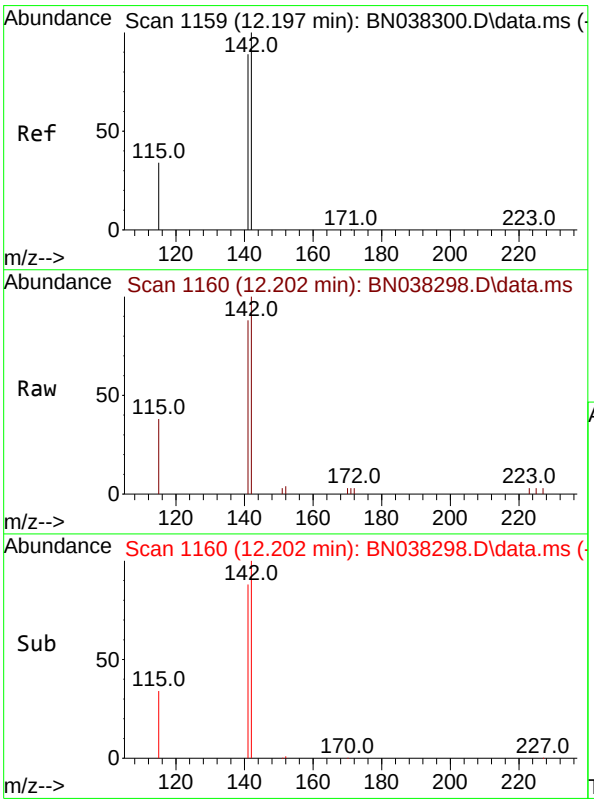
#11
2-Methylnaphthalene-d10
Concen: 0.096 ng
RT: 12.126 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 2230

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

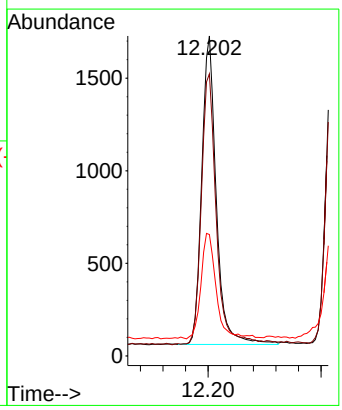


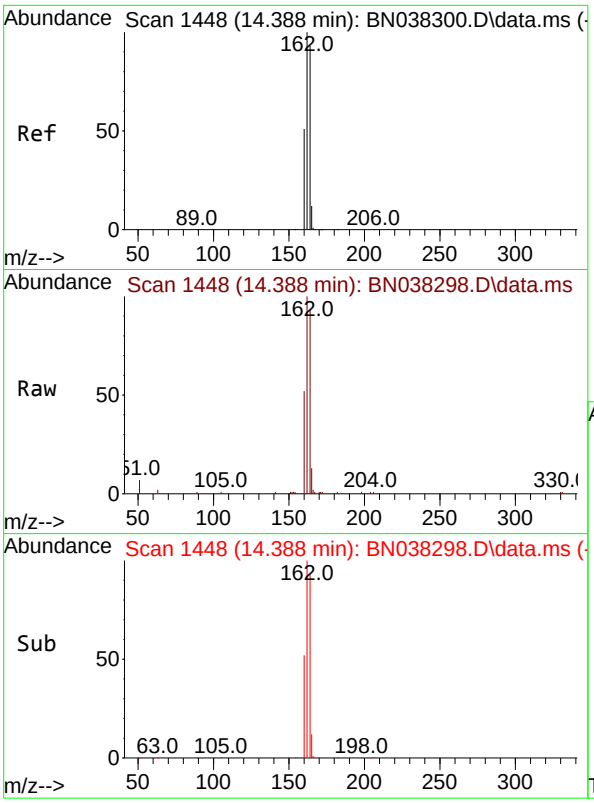


#12
2-Methylnaphthalene
Concen: 0.096 ng
RT: 12.202 min Scan# 1160
Delta R.T. 0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Tgt Ion:142 Resp: 2965

Ion	Ratio	Lower	Upper
142	100		
141	88.1	71.4	107.2
115	38.0	28.4	42.6



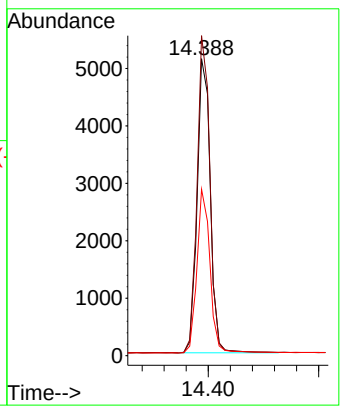


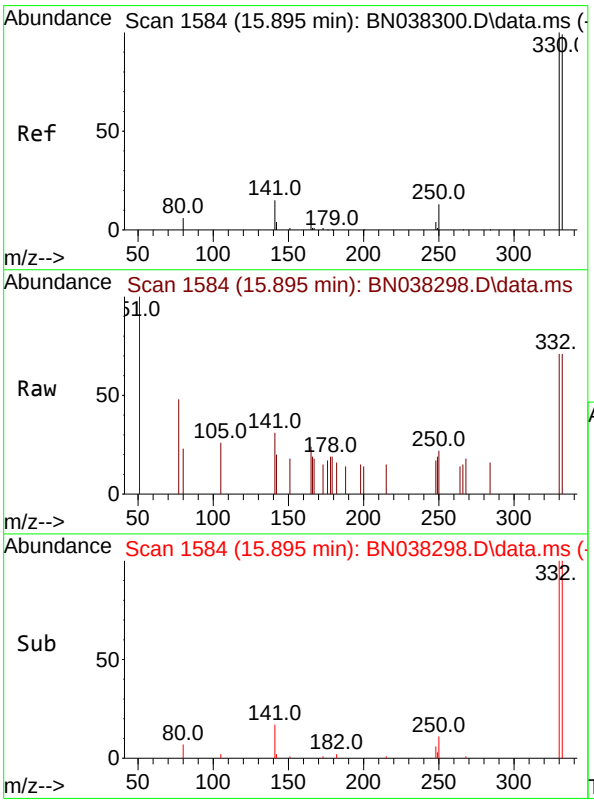
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:164 Resp: 8491

Ion	Ratio	Lower	Upper
164	100		
162	107.7	86.2	129.4
160	56.0	44.6	67.0

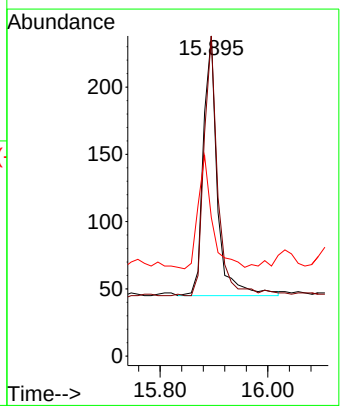


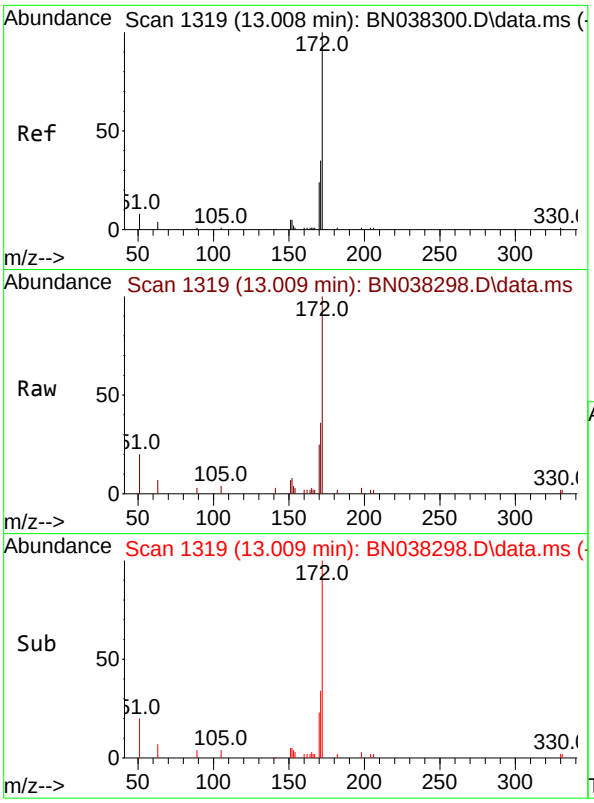


#14
2,4,6-Tribromophenol
Concen: 0.093 ng
RT: 15.895 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Tgt Ion:330 Resp: 351

Ion	Ratio	Lower	Upper
330	100		
332	98.0	75.8	113.6
141	43.6	31.8	47.8



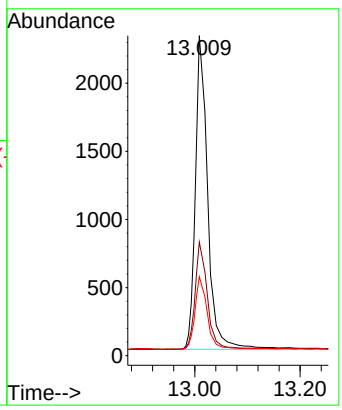


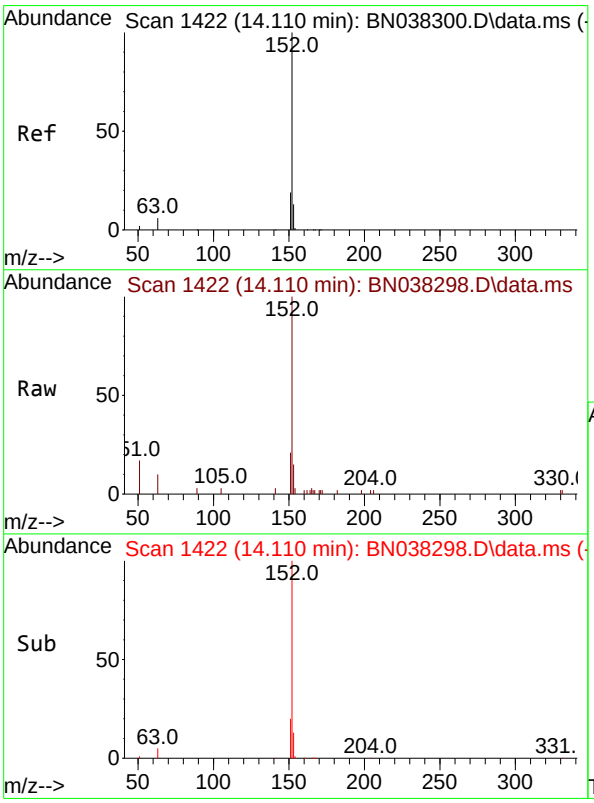
#15
2-Fluorobiphenyl
Concen: 0.101 ng
RT: 13.009 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:172 Resp: 4119

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	42.8
170	24.6	19.3	28.9

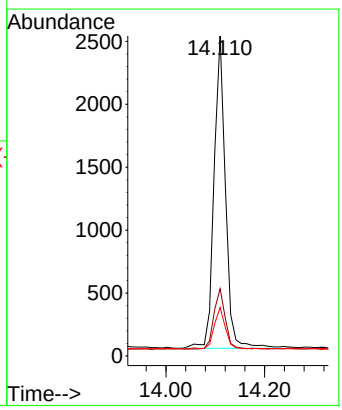


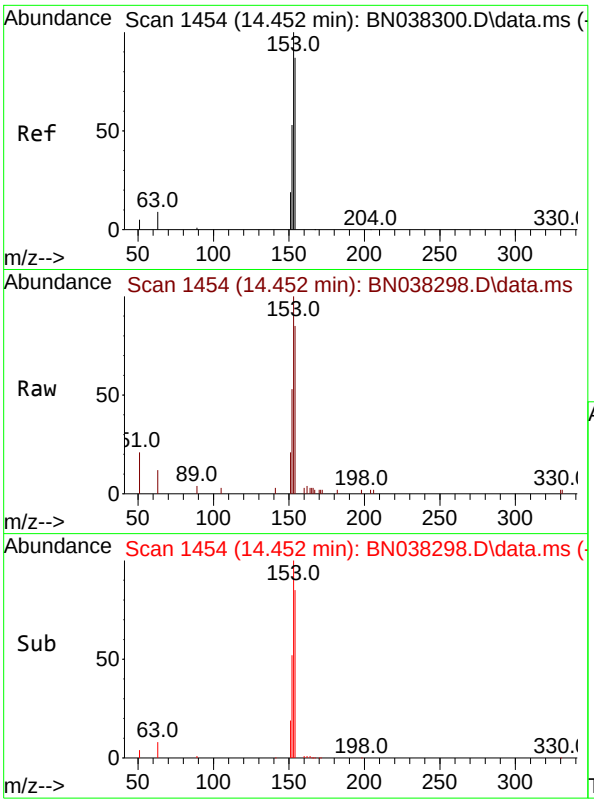


#16
Acenaphthylene
Concen: 0.096 ng
RT: 14.110 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Tgt Ion:152 Resp: 4012

Ion	Ratio	Lower	Upper
152	100		
151	19.1	15.4	23.2
153	13.4	10.2	15.4



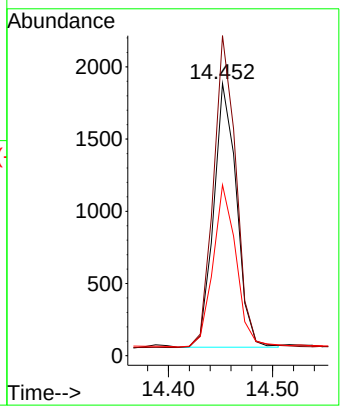


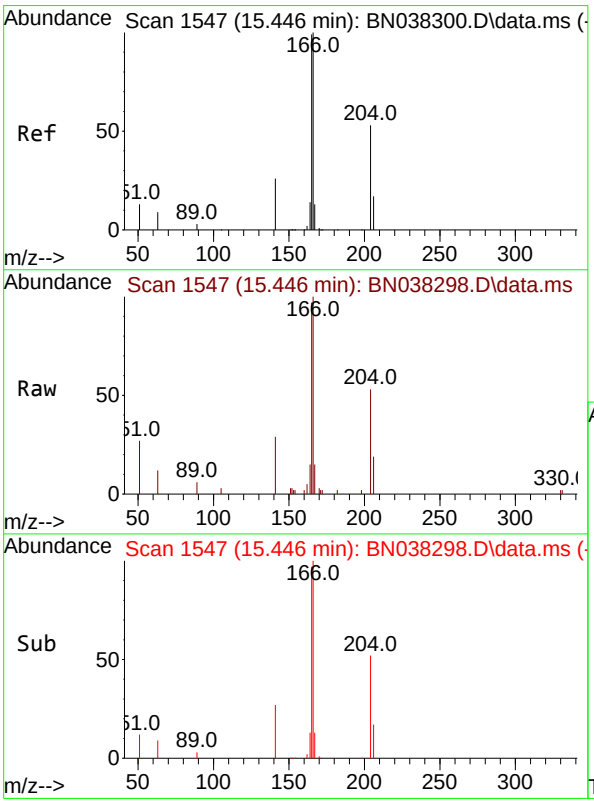
#17
Acenaphthene
Concen: 0.096 ng
RT: 14.452 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:154 Resp: 2783

Ion	Ratio	Lower	Upper
154	100		
153	118.0	89.8	134.8
152	63.1	47.5	71.3

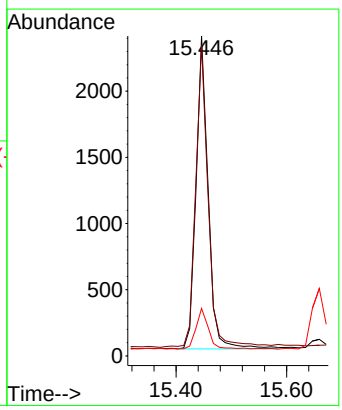


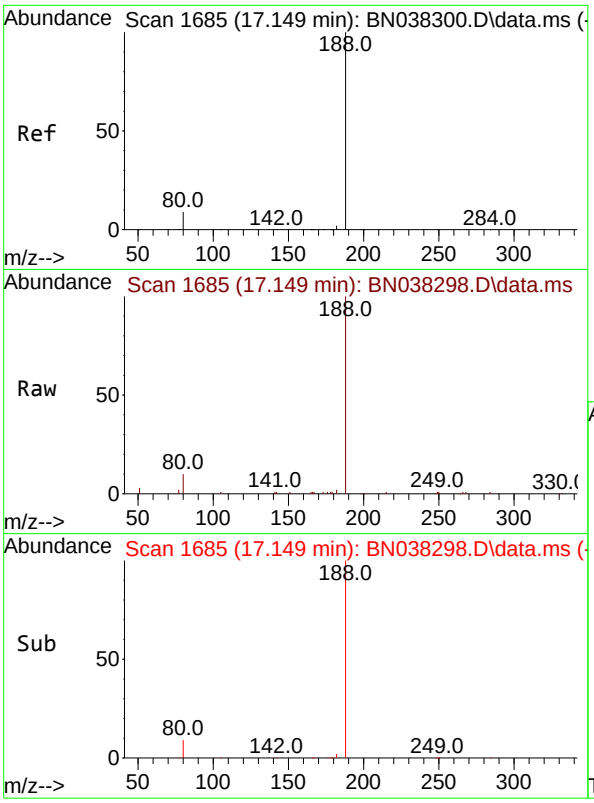


#18
Fluorene
Concen: 0.102 ng
RT: 15.446 min Scan# 1547
Delta R.T. 0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Tgt Ion:166 Resp: 3800

Ion	Ratio	Lower	Upper
166	100		
165	98.0	80.2	120.4
167	13.5	10.6	16.0



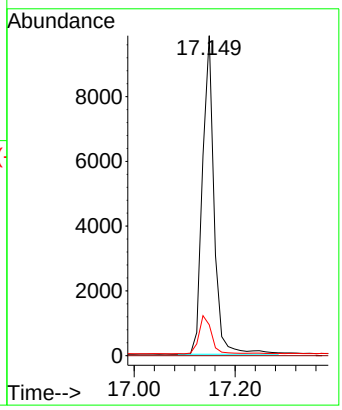


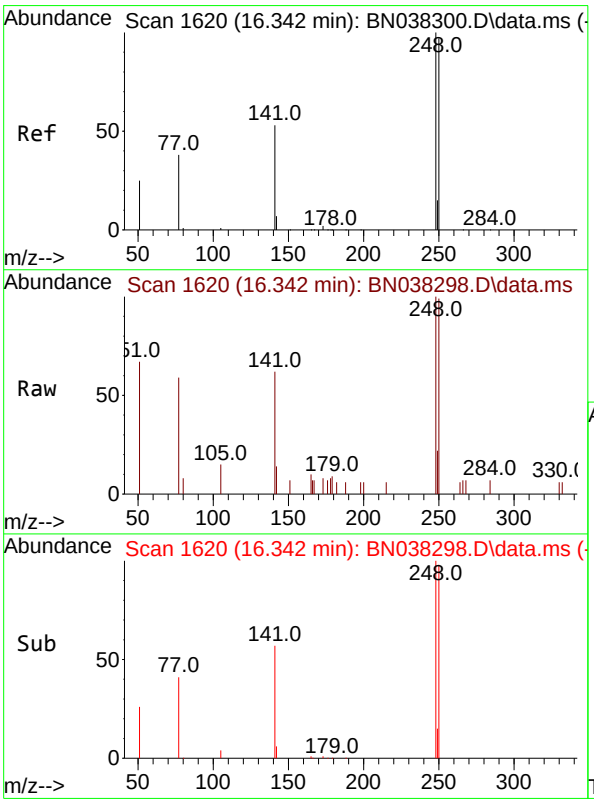
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.149 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:188 Resp: 15796

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.7	7.4	11.0

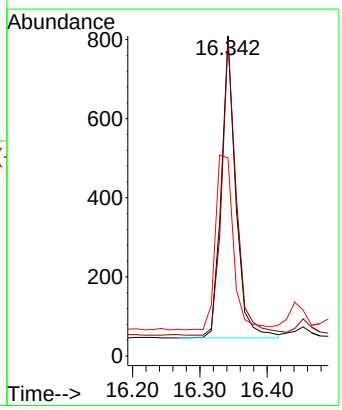


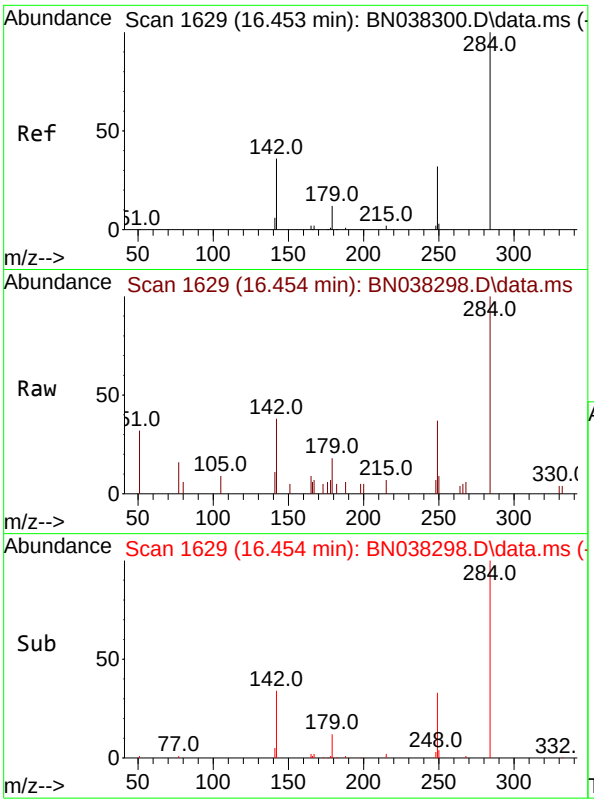


#21
4-Bromophenyl-phenylether
Concen: 0.097 ng
RT: 16.342 min Scan# 1620
Delta R.T. -0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Tgt Ion:248 Resp: 1138

Ion	Ratio	Lower	Upper
248	100		
250	98.9	78.2	117.2
141	61.9	43.7	65.5



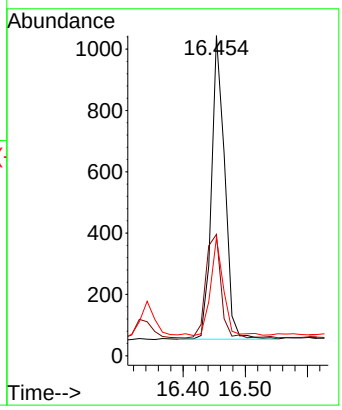


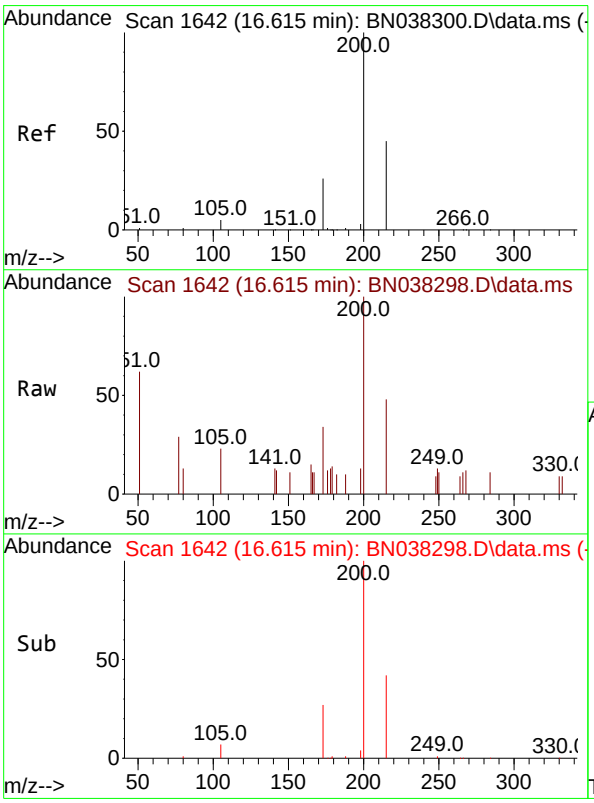
#22
Hexachlorobenzene
Concen: 0.104 ng
RT: 16.454 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:284 Resp: 1462

Ion	Ratio	Lower	Upper
284	100		
142	39.2	29.5	44.3
249	31.1	23.7	35.5

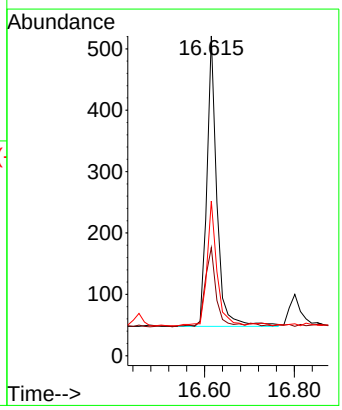


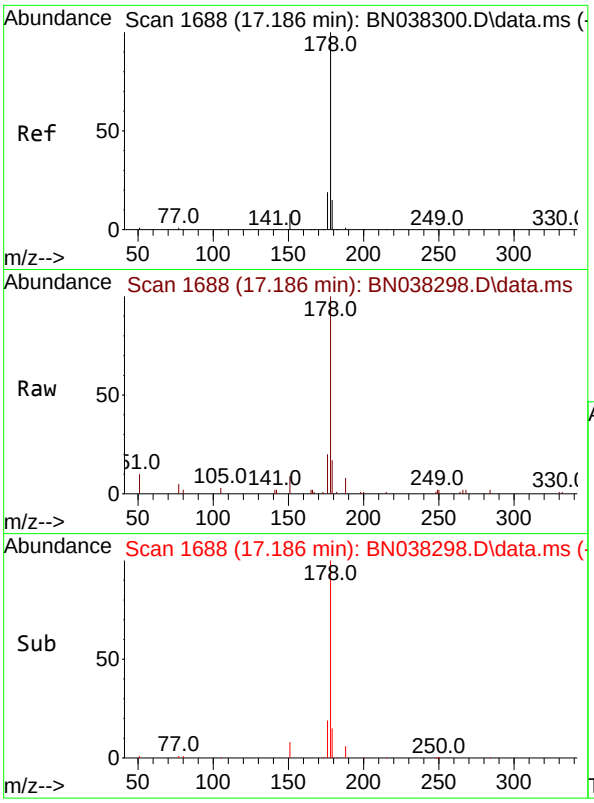


#23
Atrazine
Concen: 0.091 ng
RT: 16.615 min Scan# 1642
Delta R.T. 0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Tgt Ion:200 Resp: 727

Ion	Ratio	Lower	Upper
200	100		
173	33.8	22.1	33.1#
215	48.4	37.4	56.2



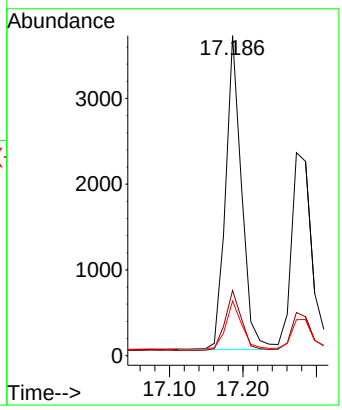


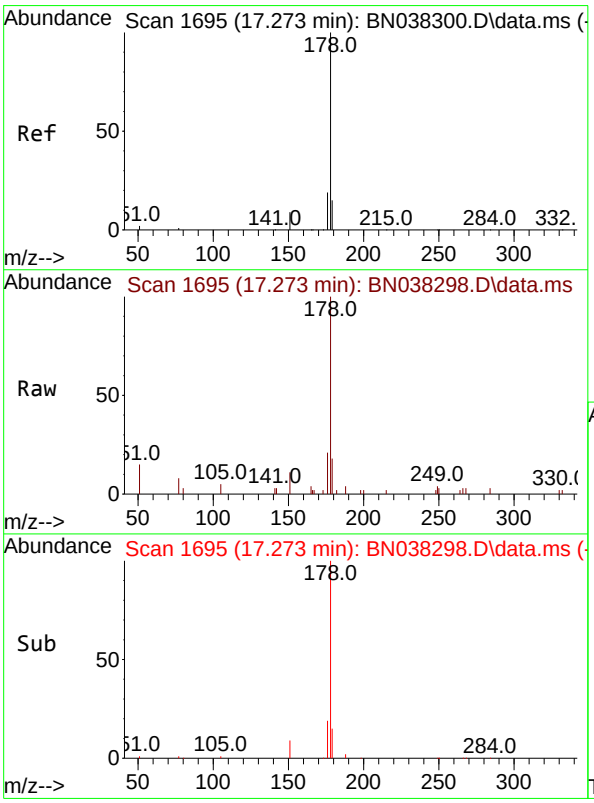
#25
Phenanthrene
Concen: 0.102 ng
RT: 17.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 5585

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.5	23.3
179	15.6	12.2	18.2

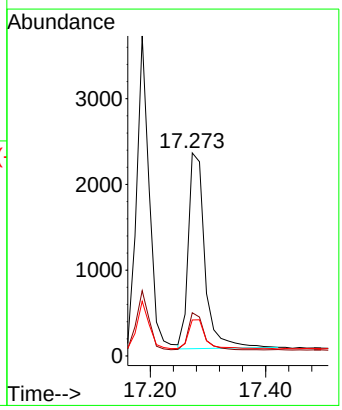


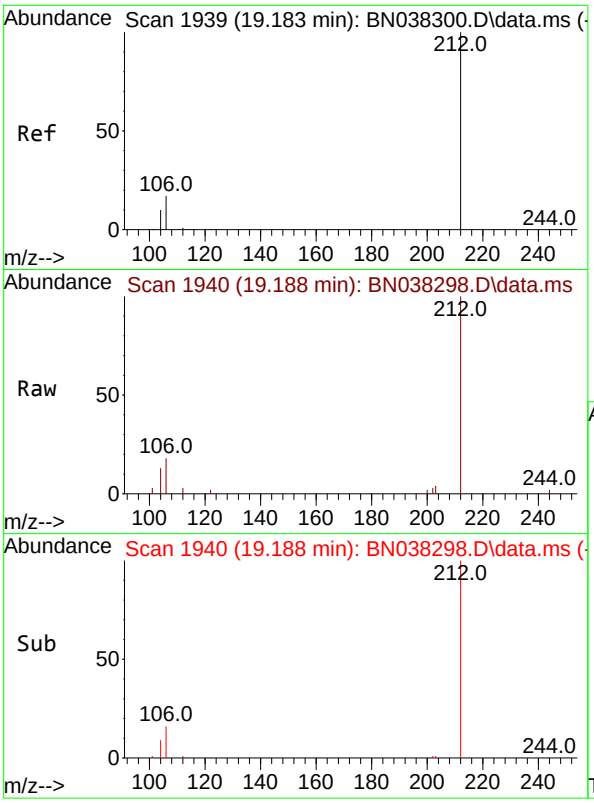


#26
Anthracene
Concen: 0.096 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Tgt Ion:178 Resp: 4544

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.1	22.7
179	15.9	12.0	18.0



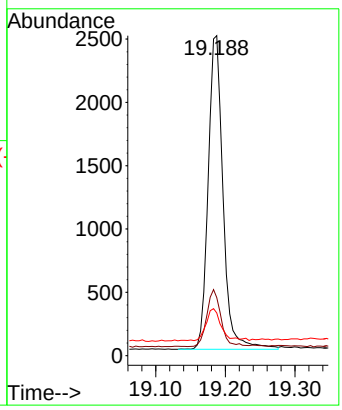


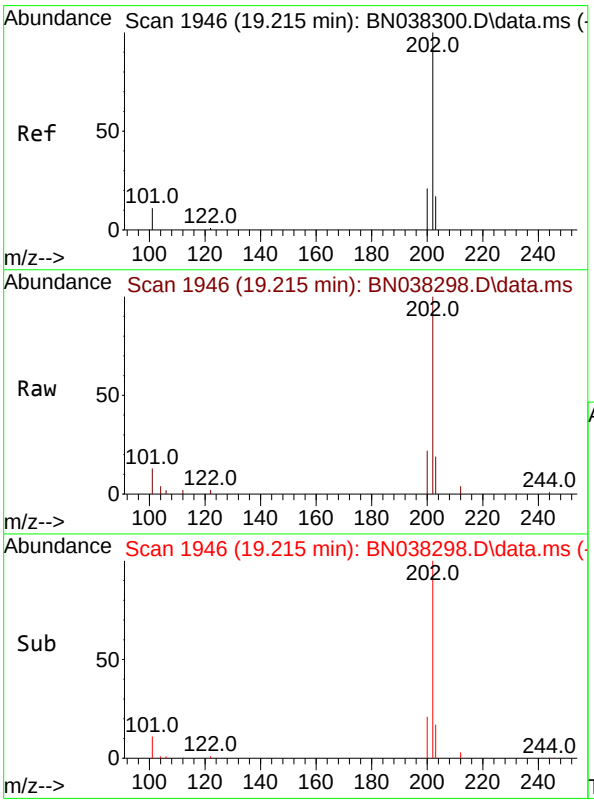
#27
Fluoranthene-d10
Concen: 0.094 ng
RT: 19.188 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:212 Resp: 3672

Ion	Ratio	Lower	Upper
212	100		
106	17.3	13.7	20.5
104	10.2	7.8	11.8

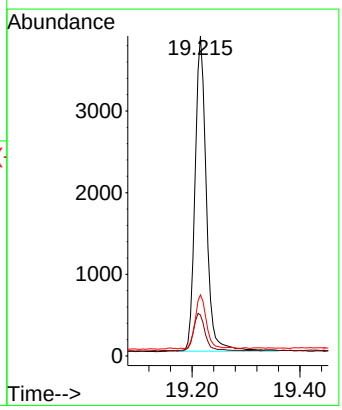


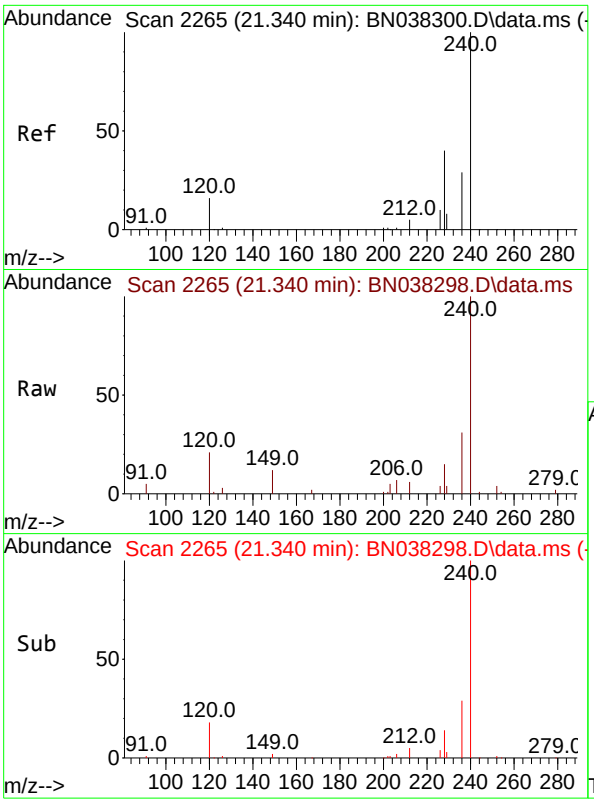


#28
Fluoranthene
Concen: 0.096 ng
RT: 19.215 min Scan# 1946
Delta R.T. -0.004 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Tgt Ion:202 Resp: 5615

Ion	Ratio	Lower	Upper
202	100		
101	12.3	9.6	14.4
203	17.1	13.5	20.3



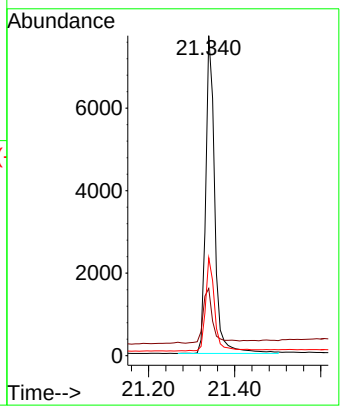


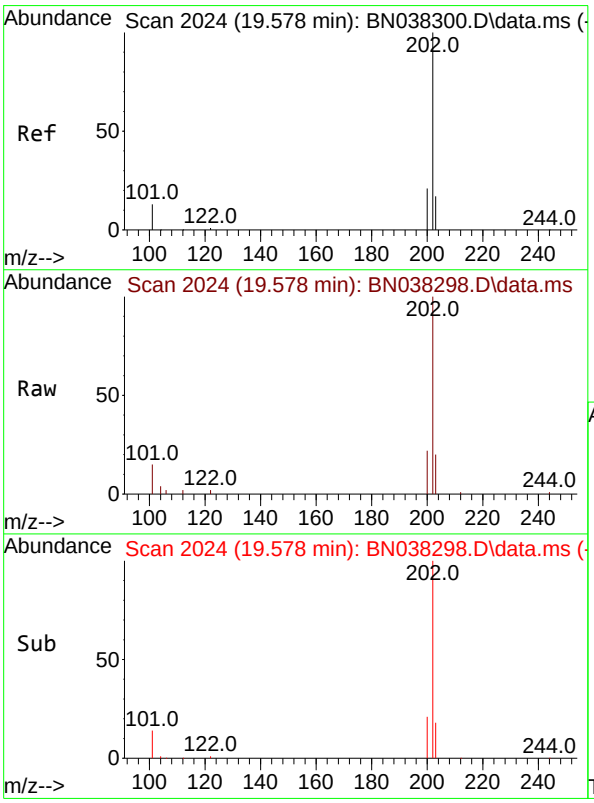
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.340 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:240 Resp: 11291

Ion	Ratio	Lower	Upper
240	100		
120	21.0	15.4	23.2
236	30.6	23.9	35.9

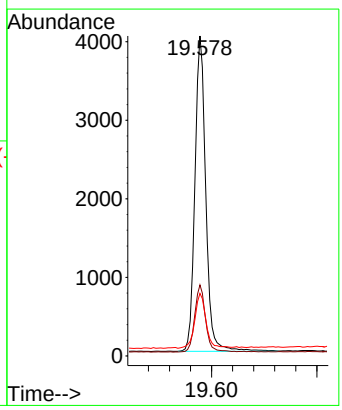


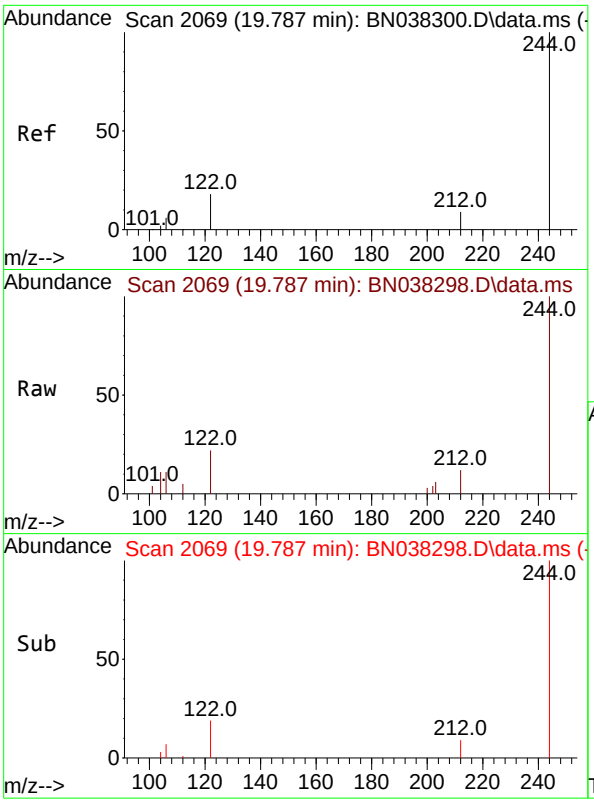


#30
Pyrene
Concen: 0.103 ng
RT: 19.578 min Scan# 2024
Delta R.T. -0.004 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Tgt Ion:202 Resp: 5753

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3
203	18.0	14.2	21.2



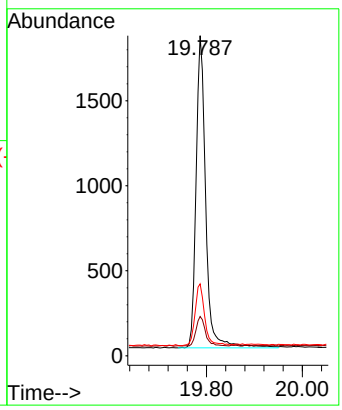


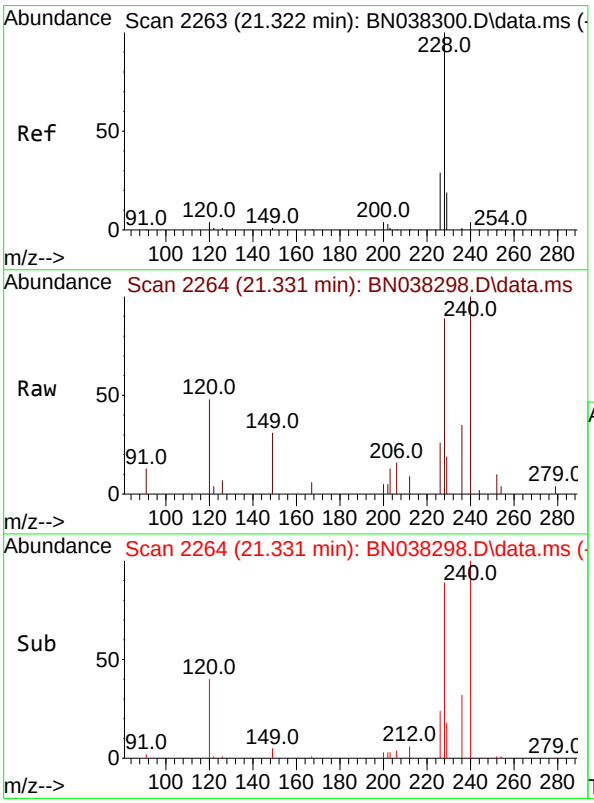
#31
Terphenyl-d14
Concen: 0.102 ng
RT: 19.787 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:244 Resp: 2576

Ion	Ratio	Lower	Upper
244	100		
212	12.3	7.9	11.9#
122	22.5	15.0	22.6

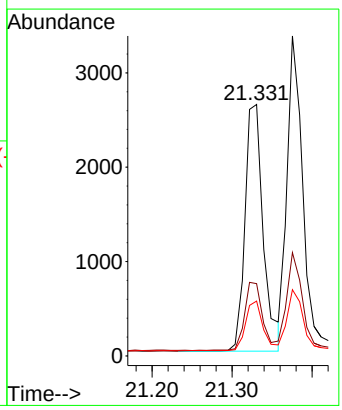


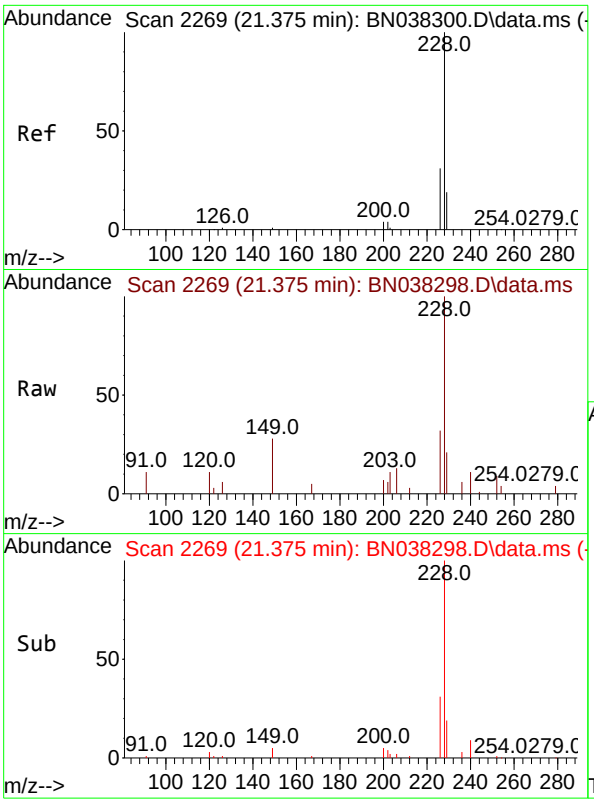


#32
Benzo(a)anthracene
Concen: 0.096 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Tgt Ion:228 Resp: 4166

Ion	Ratio	Lower	Upper
228	100		
226	28.8	23.3	34.9
229	21.8	15.7	23.5



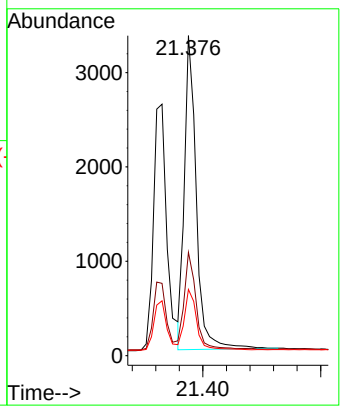


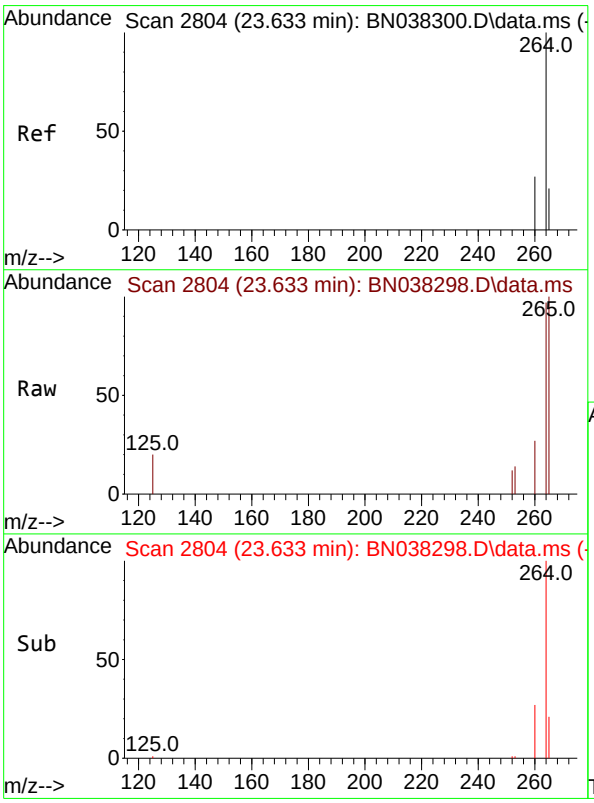
#33
Chrysene
Concen: 0.097 ng
RT: 21.375 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:228 Resp: 4665

Ion	Ratio	Lower	Upper
228	100		
226	32.3	25.0	37.4
229	20.7	15.5	23.3

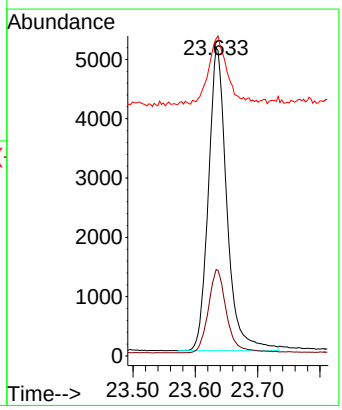


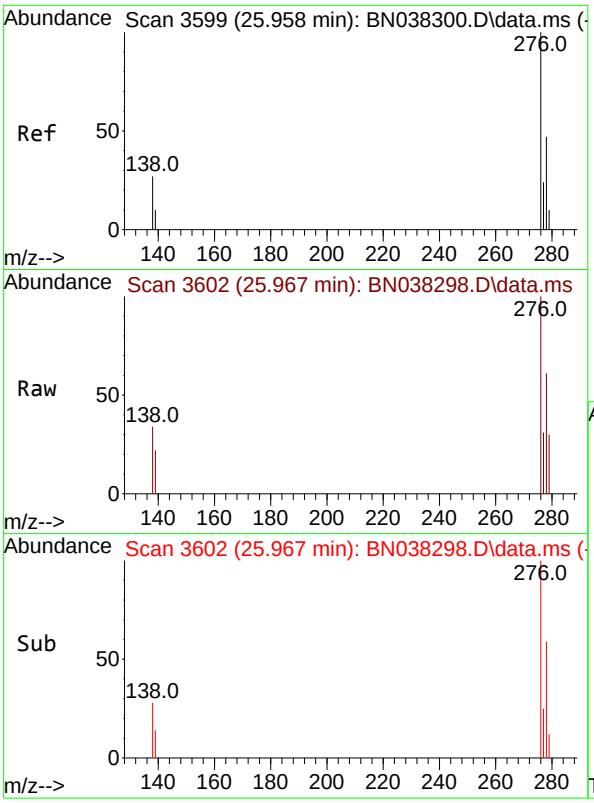


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.633 min Scan# 2804
Delta R.T. 0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Tgt Ion:264 Resp: 10537

Ion	Ratio	Lower	Upper
264	100		
260	28.0	22.2	33.2
265	102.9	80.2	120.2



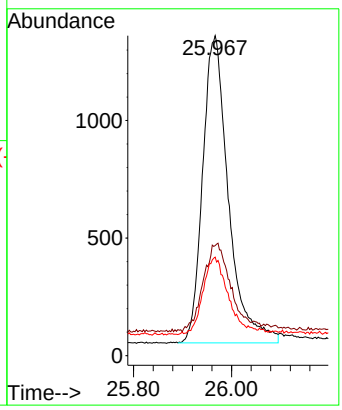


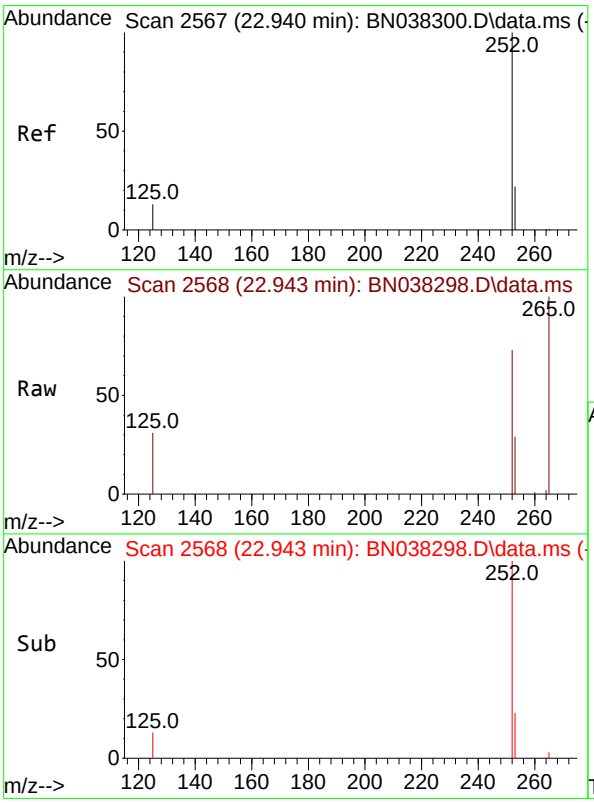
#36
Indeno(1,2,3-cd)pyrene
Concen: 0.085 ng
RT: 25.967 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:276 Resp: 4777

Ion	Ratio	Lower	Upper
276	100		
138	30.4	23.6	35.4
277	23.2	19.7	29.5

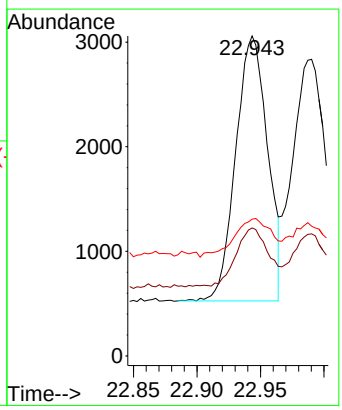


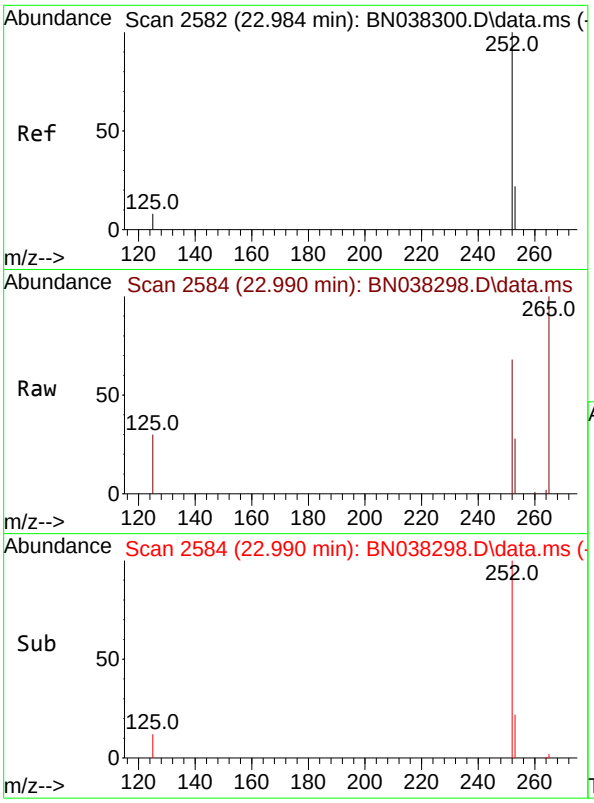


#37
Benzo(b)fluoranthene
Concen: 0.091 ng
RT: 22.943 min Scan# 2568
Delta R.T. -0.003 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Tgt Ion:252 Resp: 4408

Ion	Ratio	Lower	Upper
252	100		
253	40.0	21.1	31.7#
125	42.7	16.4	24.6#



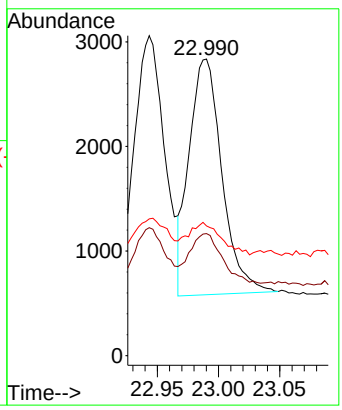


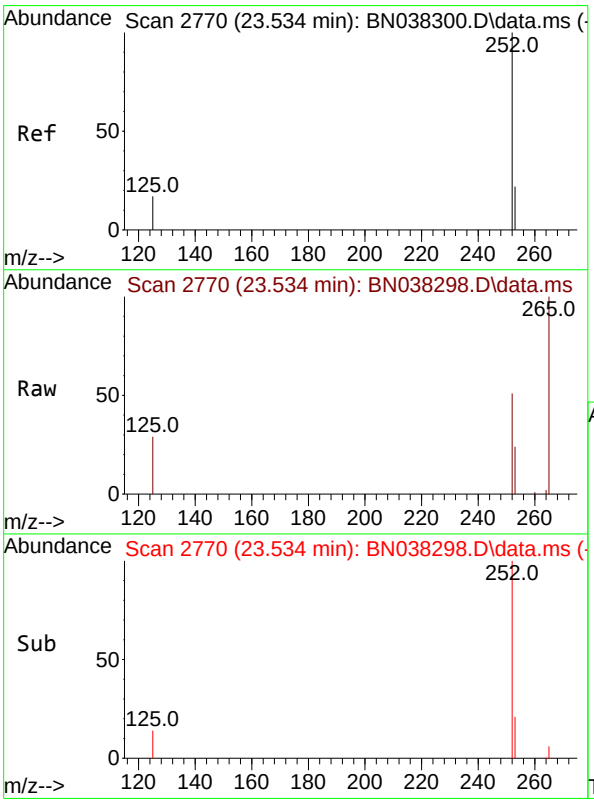
#38
Benzo(k)fluoranthene
Concen: 0.087 ng
RT: 22.990 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 4206

Ion	Ratio	Lower	Upper
252	100		
253	41.1	21.4	32.0#
125	43.7	16.2	24.2#

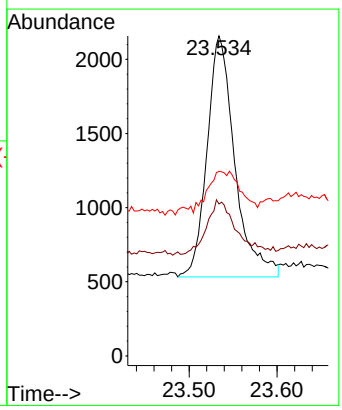


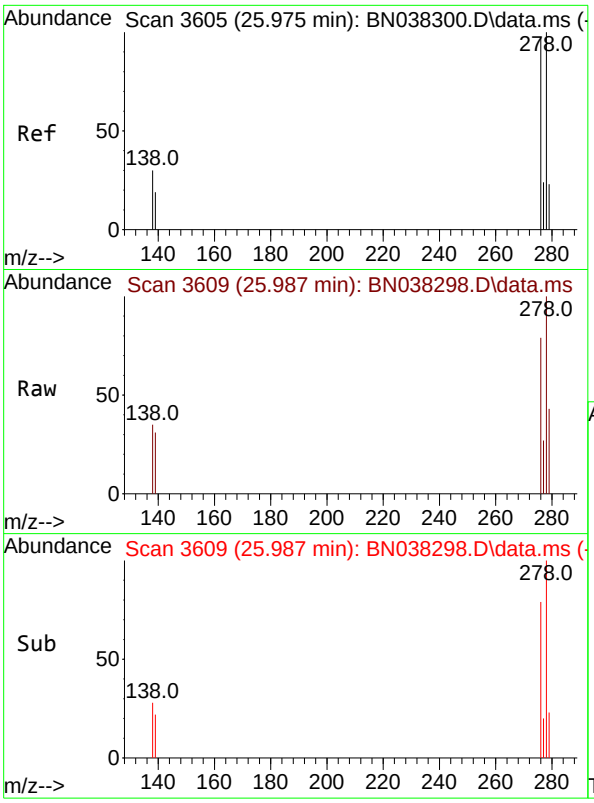


#39
Benzo(a)pyrene
Concen: 0.090 ng
RT: 23.534 min Scan# 2770
Delta R.T. 0.000 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Tgt Ion:252 Resp: 3570

Ion	Ratio	Lower	Upper
252	100		
253	47.5	23.3	34.9#
125	57.7	22.4	33.6#



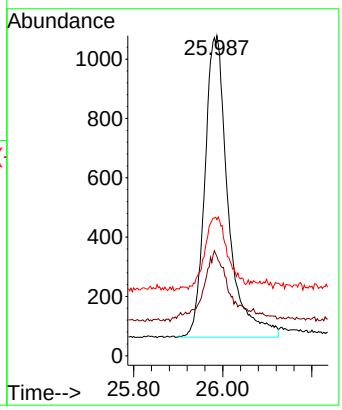


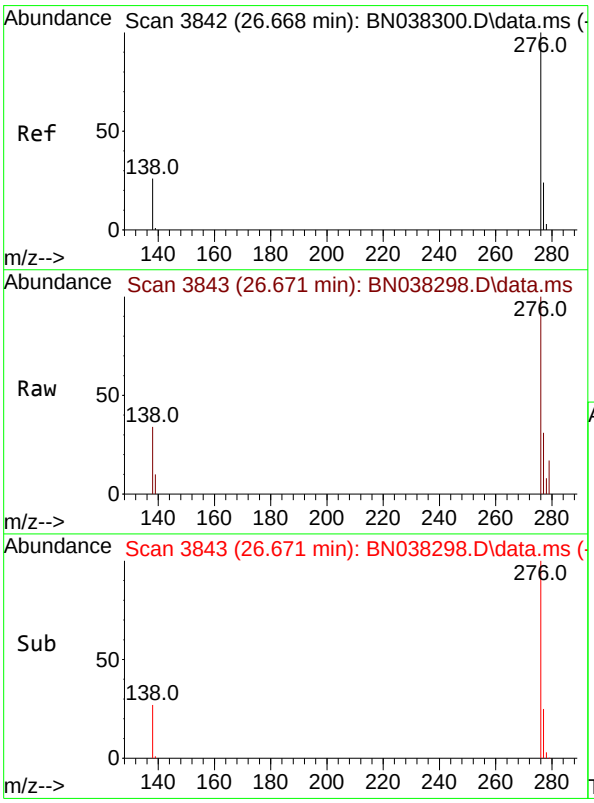
#40
Dibenzo(a,h)anthracene
Concen: 0.085 ng
RT: 25.987 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:278 Resp: 3677

Ion	Ratio	Lower	Upper
278	100		
139	31.0	17.8	26.8#
279	42.5	21.3	31.9#

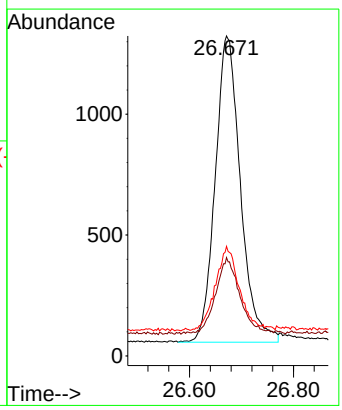




#41
Benzo(g,h,i)perylene
Concen: 0.089 ng
RT: 26.671 min Scan# 3843
Delta R.T. -0.006 min
Lab File: BN038298.D
Acq: 10 Dec 2025 09:52

Tgt Ion:276 Resp: 4274

Ion	Ratio	Lower	Upper
276	100		
277	30.7	20.0	30.0#
138	34.2	21.8	32.6#



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121025\
Data File : BN038299.D
Acq On : 10 Dec 2025 10:28
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Dec 10 13:59:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	5832	0.400	ng		0.00
7) Naphthalene-d8	10.530	136	15274	0.400	ng		0.00
13) Acenaphthene-d10	14.388	164	7698	0.400	ng		-0.01
19) Phenanthrene-d10	17.149	188	13779	0.400	ng		0.00
29) Chrysene-d12	21.340	240	10001	0.400	ng		0.00
35) Perylene-d12	23.636	264	9929	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	3015	0.208	ng		0.00
5) Phenol-d6	6.887	99	3373	0.195	ng		0.00
8) Nitrobenzene-d5	8.875	82	2478	0.192	ng		0.00
11) 2-Methylnaphthalene-d10	12.126	152	4184	0.194	ng		0.00
14) 2,4,6-Tribromophenol	15.895	330	624	0.183	ng		0.00
15) 2-Fluorobiphenyl	13.008	172	7511	0.203	ng		0.00
27) Fluoranthene-d10	19.183	212	6525	0.191	ng		0.00
31) Terphenyl-d14	19.787	244	4585	0.205	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.196	88	1475	0.221	ng		97
3) n-Nitrosodimethylamine	3.514	42	1649	0.197	ng	#	97
6) bis(2-Chloroethyl)ether	7.147	93	3414	0.202	ng		99
9) Naphthalene	10.573	128	9052	0.200	ng		98
10) Hexachlorobutadiene	10.872	225	1628	0.203	ng	#	100
12) 2-Methylnaphthalene	12.202	142	5611	0.196	ng		99
16) Acenaphthylene	14.110	152	7256	0.192	ng		99
17) Acenaphthene	14.452	154	5115	0.194	ng		98
18) Fluorene	15.446	166	6474	0.191	ng		100
20) 4,6-Dinitro-2-methylph...	15.523	198	373	0.165	ng	#	43
21) 4-Bromophenyl-phenylether	16.342	248	2003	0.196	ng		98
22) Hexachlorobenzene	16.453	284	2521	0.205	ng		99
23) Atrazine	16.615	200	1351	0.194	ng		99
24) Pentachlorophenol	16.801	266	853	0.178	ng		98
25) Phenanthrene	17.186	178	9460	0.197	ng		100
26) Anthracene	17.273	178	7793	0.188	ng		100
28) Fluoranthene	19.215	202	9737	0.191	ng		99
30) Pyrene	19.578	202	9841	0.200	ng		100
32) Benzo(a)anthracene	21.331	228	7688	0.199	ng		97
33) Chrysene	21.375	228	8559	0.201	ng		99
34) Bis(2-ethylhexyl)phtha...	21.268	149	5010	0.236	ng		98
36) Indeno(1,2,3-cd)pyrene	25.963	276	10127	0.192	ng		98
37) Benzo(b)fluoranthene	22.943	252	9091	0.199	ng	#	84
38) Benzo(k)fluoranthene	22.987	252	8902	0.196	ng	#	84
39) Benzo(a)pyrene	23.534	252	7243	0.194	ng	#	80
40) Dibenzo(a,h)anthracene	25.981	278	7551	0.186	ng	#	93
41) Benzo(g,h,i)perylene	26.668	276	9018	0.199	ng		97

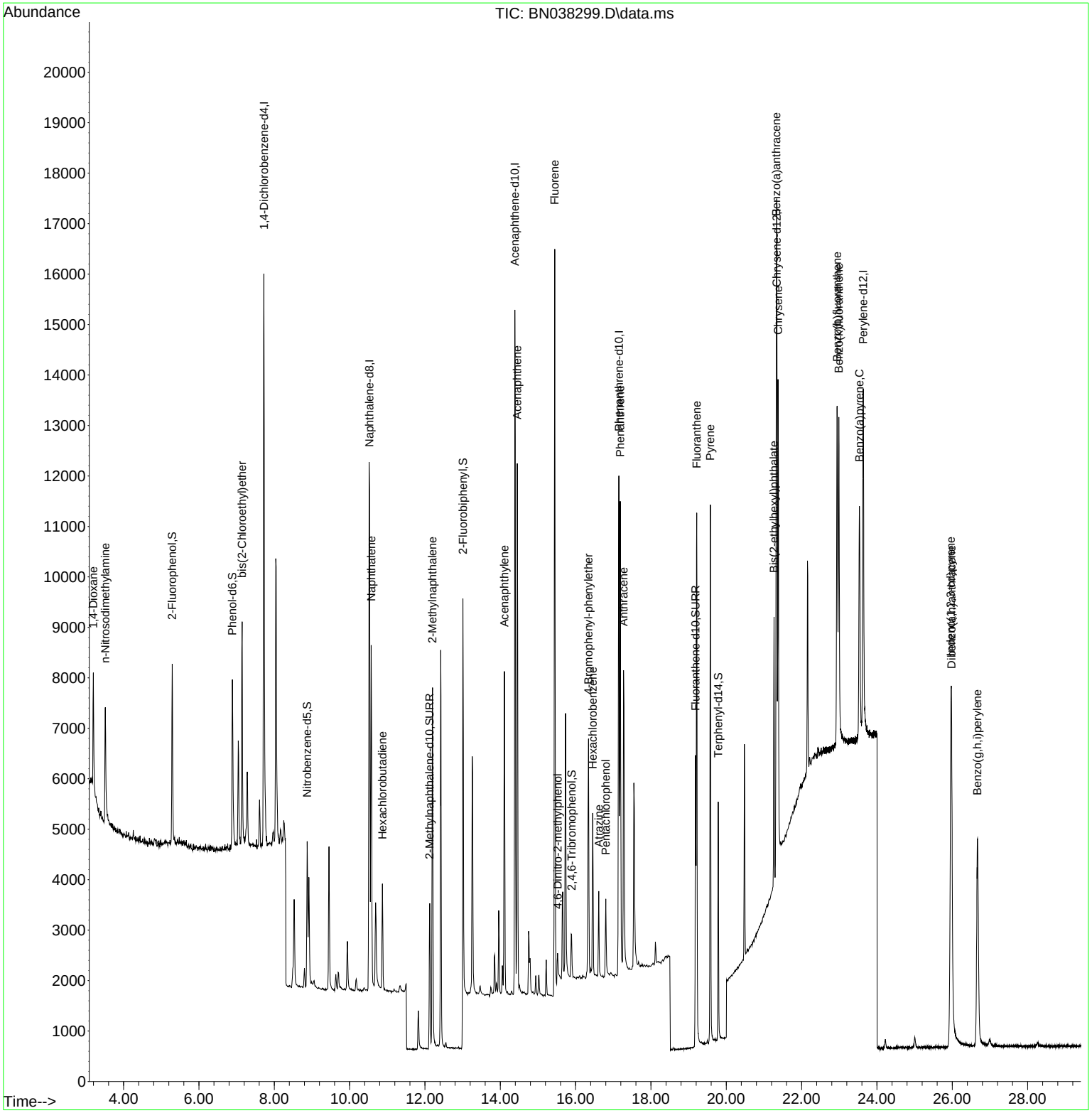
(#) = qualifier out of range (m) = manual integration (+) = signals summed

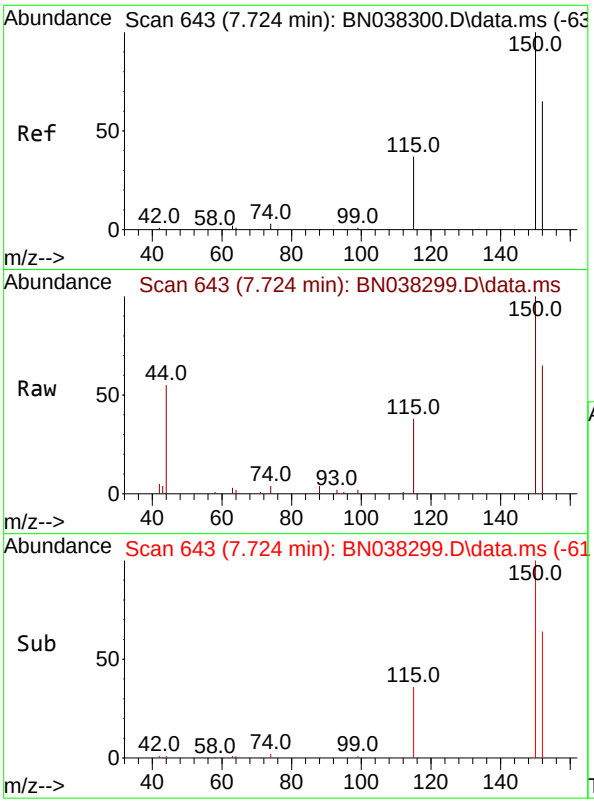
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121025\
Data File : BN038299.D
Acq On : 10 Dec 2025 10:28
Operator : RC/JU
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Dec 10 13:59:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration



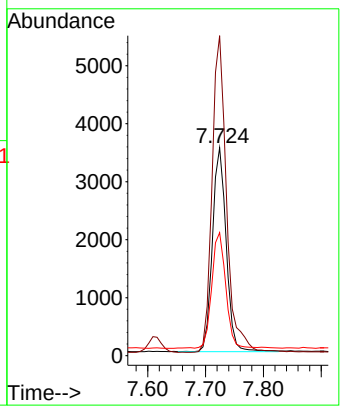


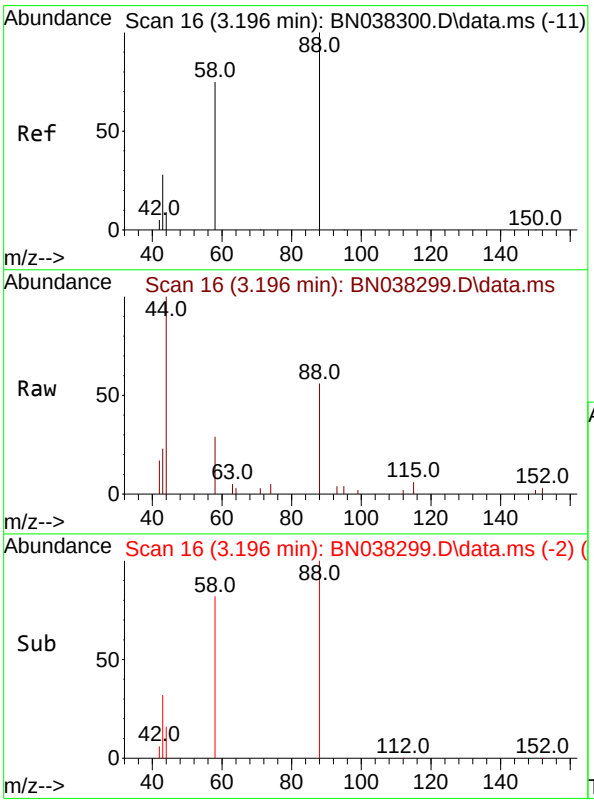
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 5832

Ion	Ratio	Lower	Upper
152	100		
150	153.9	122.4	183.6
115	59.2	47.3	70.9

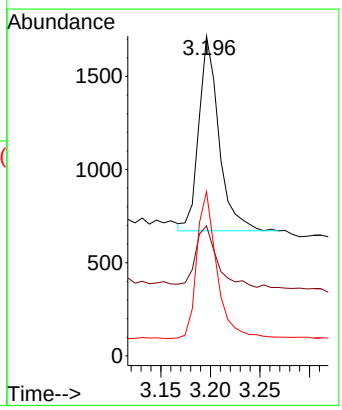


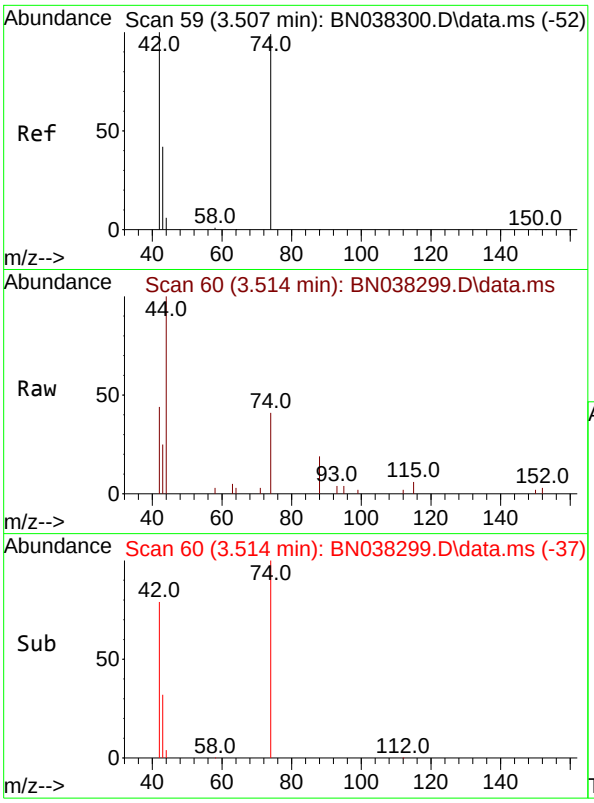


#2
1,4-Dioxane
Concen: 0.221 ng
RT: 3.196 min Scan# 16
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Tgt Ion: 88 Resp: 1475

Ion	Ratio	Lower	Upper
88	100		
43	34.4	24.9	37.3
58	75.5	61.4	92.0



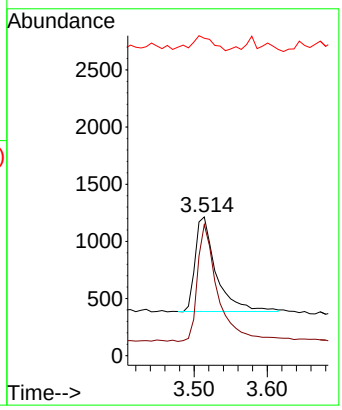


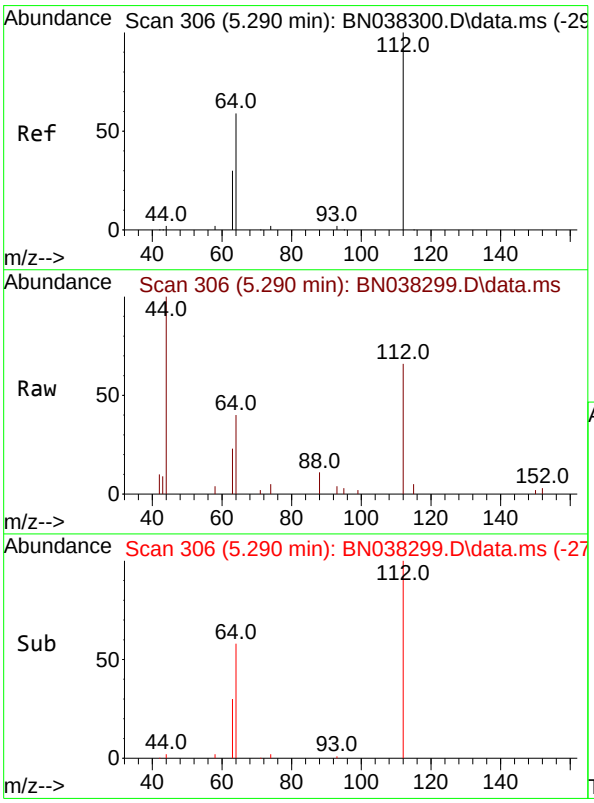
#3
n-Nitrosodimethylamine
Concen: 0.197 ng
RT: 3.514 min Scan# 6
Delta R.T. 0.014 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 1649

Ion	Ratio	Lower	Upper
42	100		
74	121.1	95.3	142.9
44	15.8	7.9	11.9#

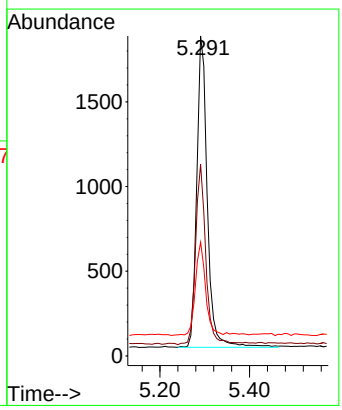


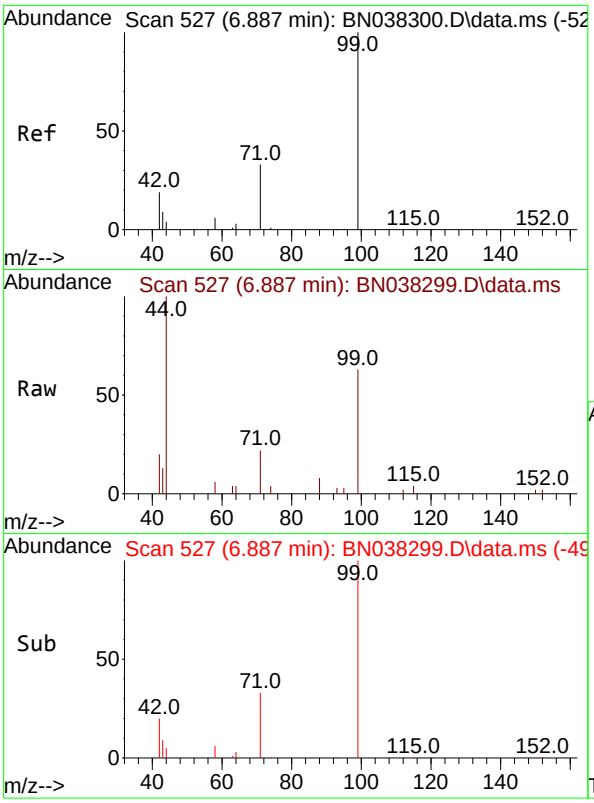


#4
2-Fluorophenol
Concen: 0.208 ng
RT: 5.290 min Scan# 306
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Tgt Ion:112 Resp: 3015

Ion	Ratio	Lower	Upper
112	100		
64	56.3	44.4	66.6
63	28.7	23.4	35.0



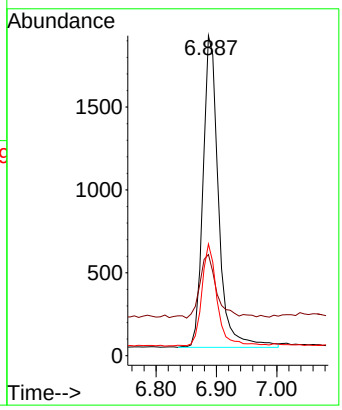


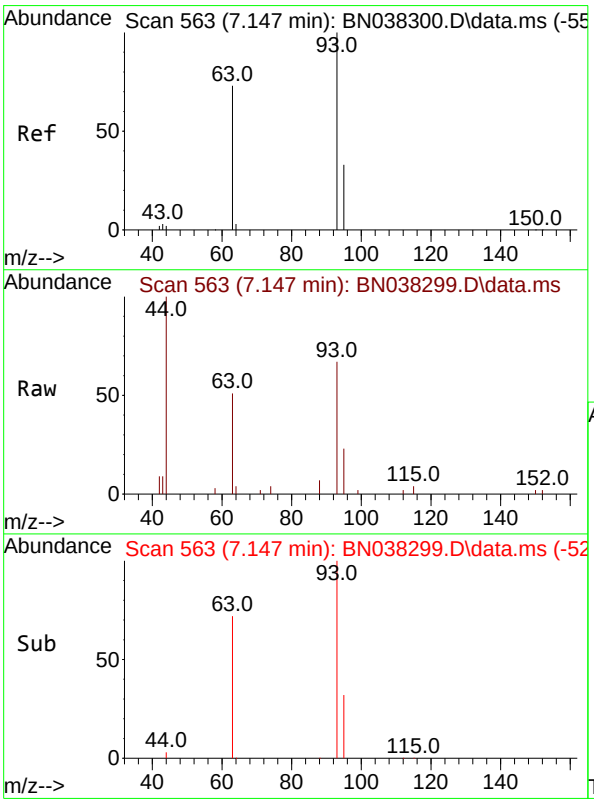
#5
Phenol-d6
Concen: 0.195 ng
RT: 6.887 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 3373

Ion	Ratio	Lower	Upper
99	100		
42	22.7	16.5	24.7
71	32.4	24.9	37.3

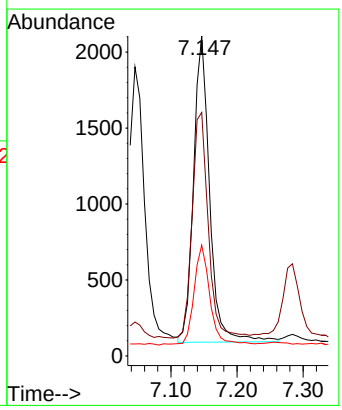


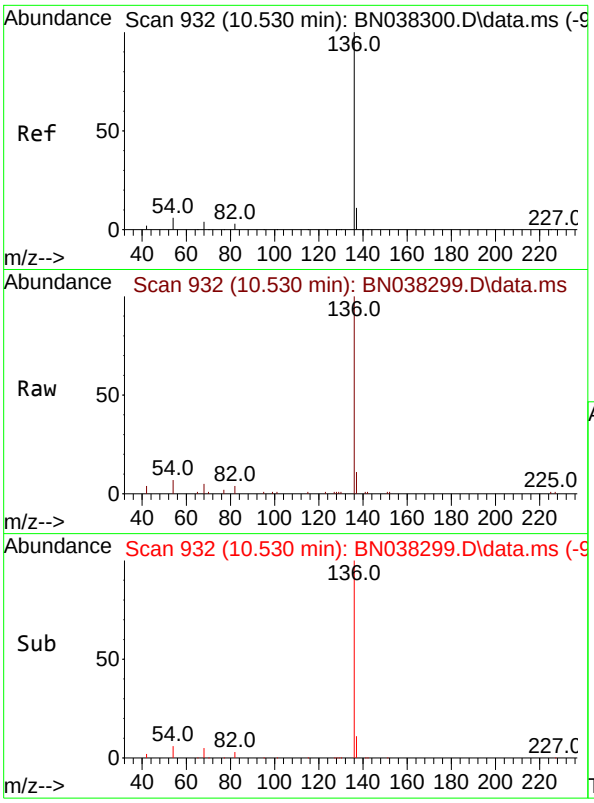


#6
bis(2-Chloroethyl)ether
Concen: 0.202 ng
RT: 7.147 min Scan# 563
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Tgt Ion: 93 Resp: 3414

Ion	Ratio	Lower	Upper
93	100		
63	73.9	59.2	88.8
95	32.5	25.2	37.8



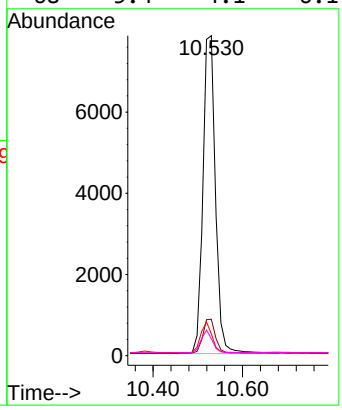


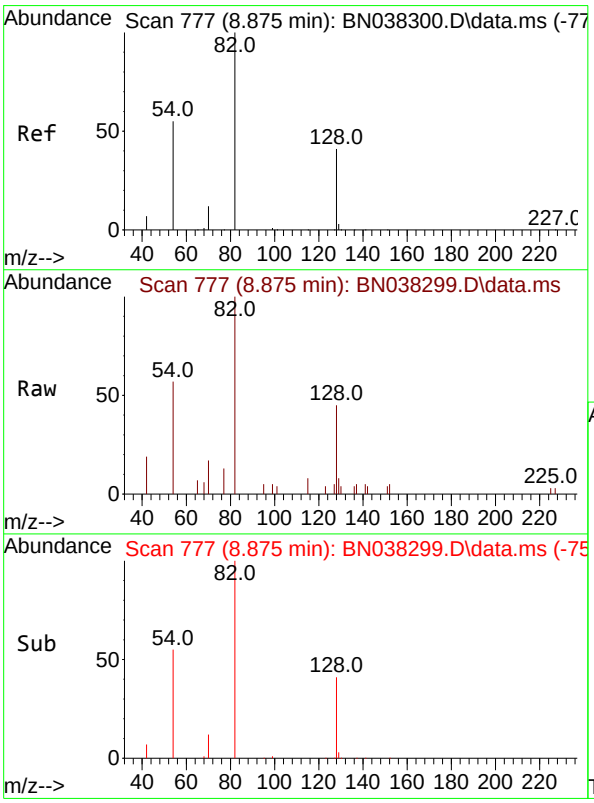
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.530 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 15274

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	6.8	5.2	7.8
68	5.4	4.1	6.1

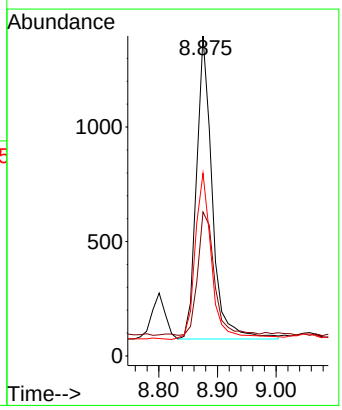


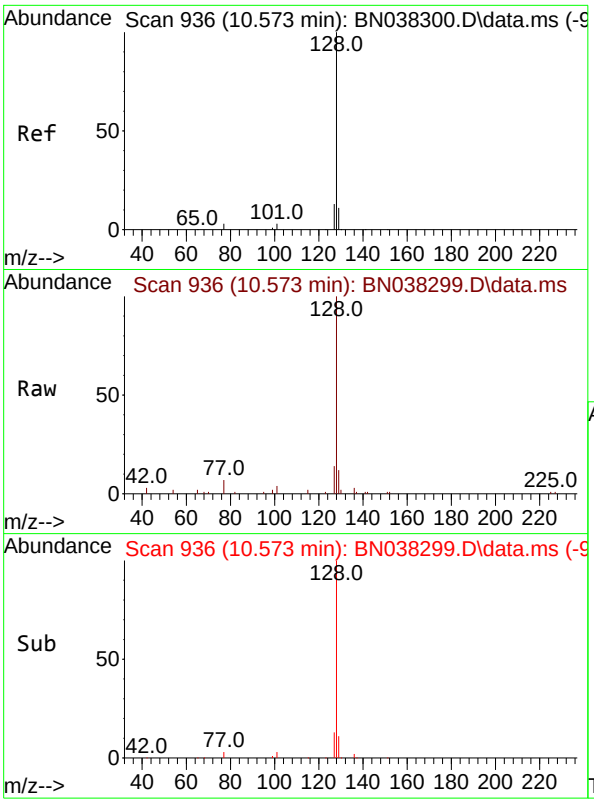


#8
Nitrobenzene-d5
Concen: 0.192 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Tgt Ion: 82 Resp: 2478

Ion	Ratio	Lower	Upper
82	100		
128	45.0	34.0	51.0
54	57.1	44.4	66.6



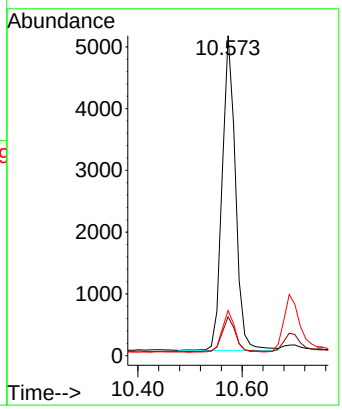


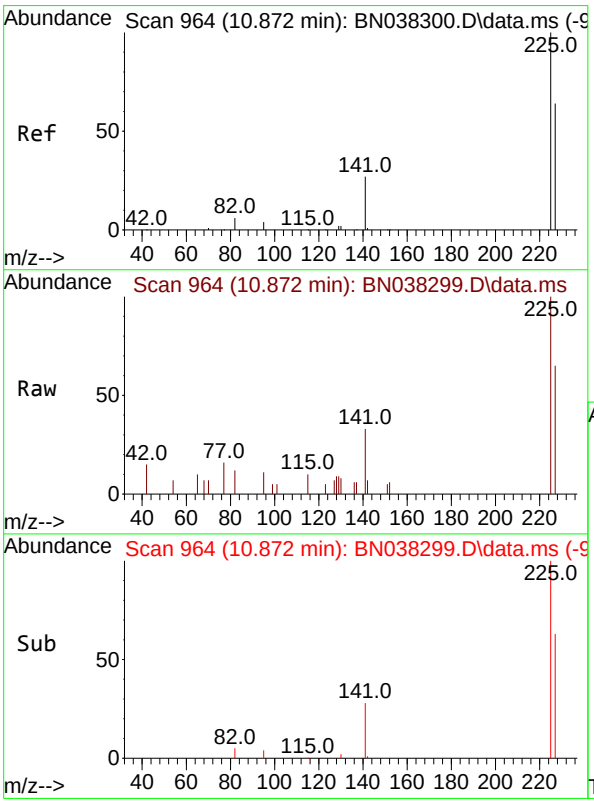
#9
Naphthalene
Concen: 0.200 ng
RT: 10.573 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 9052

Ion	Ratio	Lower	Upper
128	100		
129	12.1	9.1	13.7
127	14.1	10.9	16.3

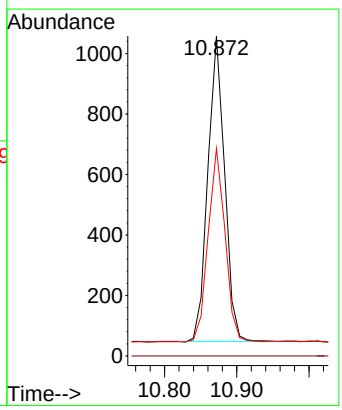


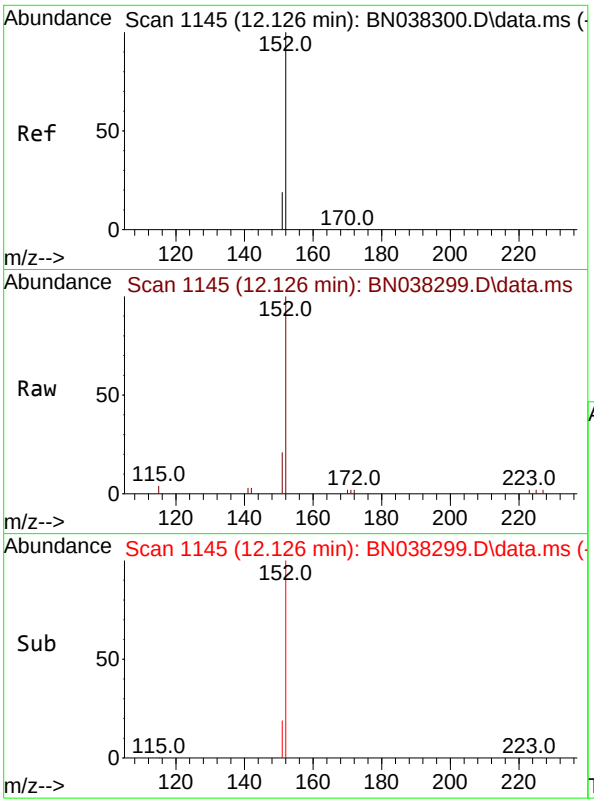


#10
Hexachlorobutadiene
Concen: 0.203 ng
RT: 10.872 min Scan# 964
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Tgt Ion:225 Resp: 1628

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	51.2	76.8



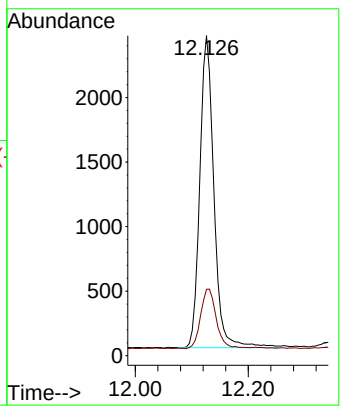


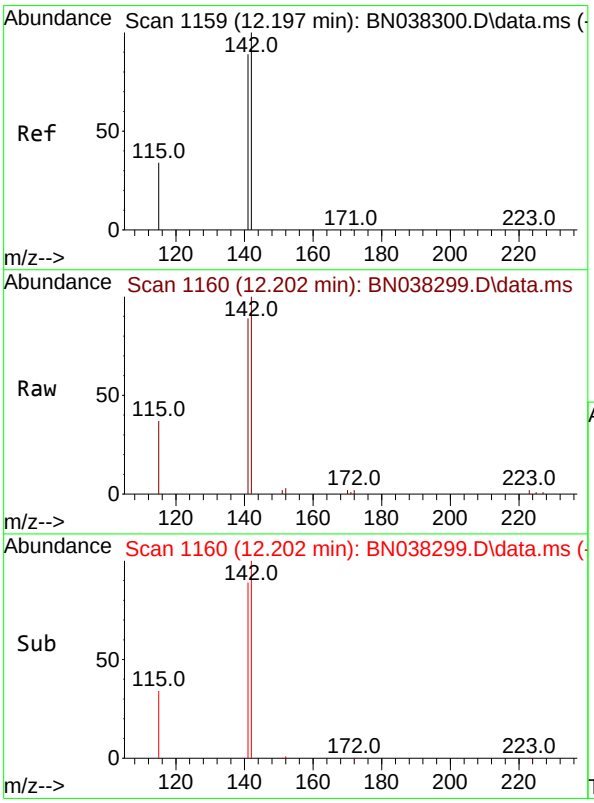
#11
2-Methylnaphthalene-d10
Concen: 0.194 ng
RT: 12.126 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 4184

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.0	25.6

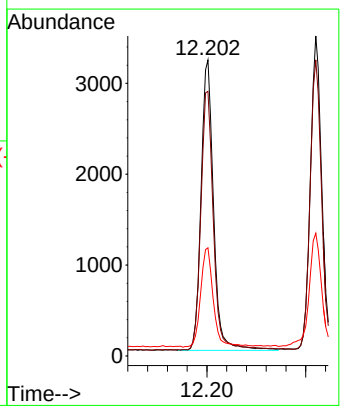


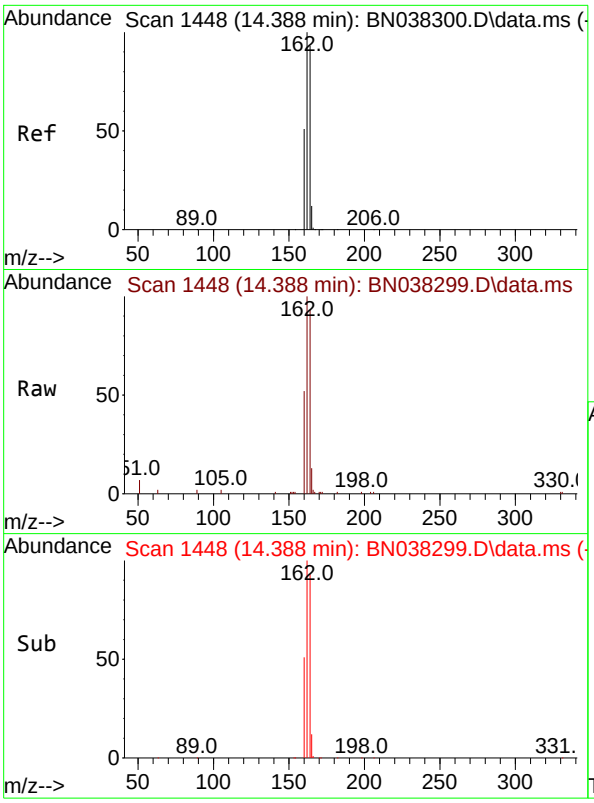


#12
2-Methylnaphthalene
Concen: 0.196 ng
RT: 12.202 min Scan# 1160
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Tgt Ion:142 Resp: 5611

Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.4	107.2
115	36.5	28.4	42.6



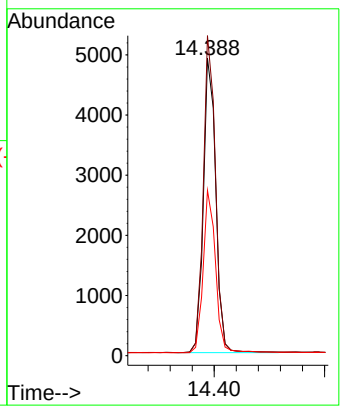


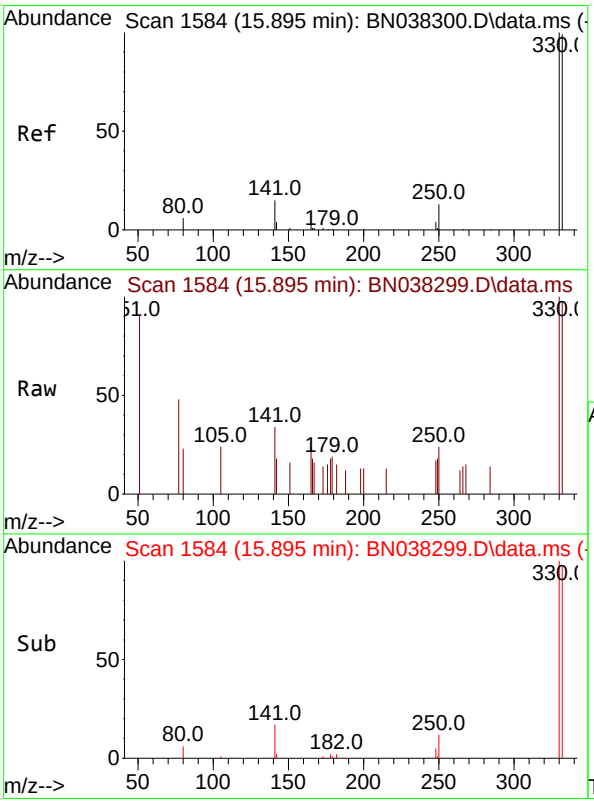
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 7698

Ion	Ratio	Lower	Upper
164	100		
162	107.6	86.2	129.4
160	55.6	44.6	67.0

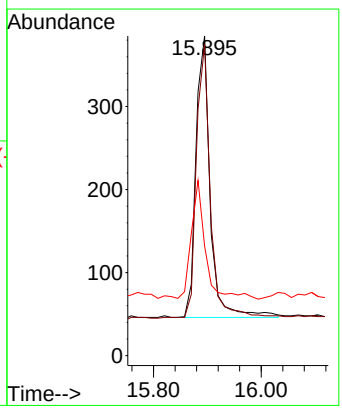


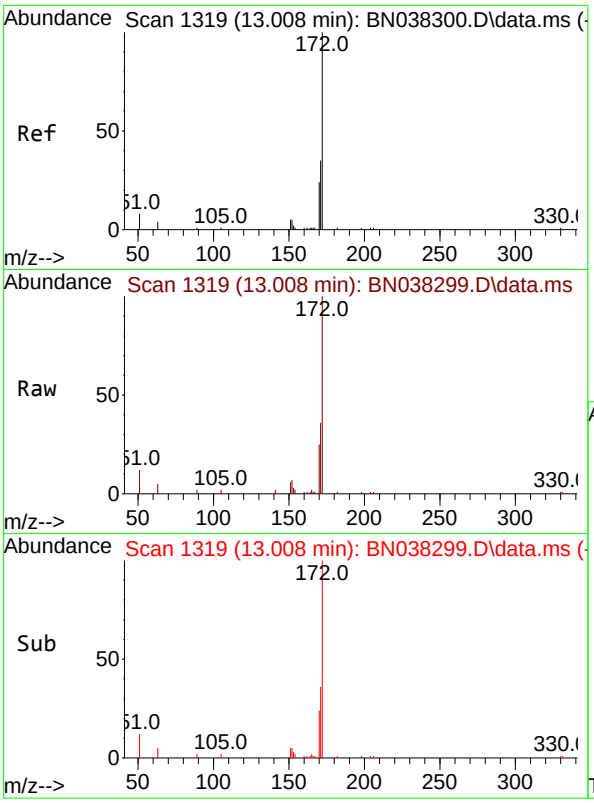


#14
2,4,6-Tribromophenol
Concen: 0.183 ng
RT: 15.895 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Tgt Ion:330 Resp: 624

Ion	Ratio	Lower	Upper
330	100		
332	96.2	75.8	113.6
141	41.7	31.8	47.8



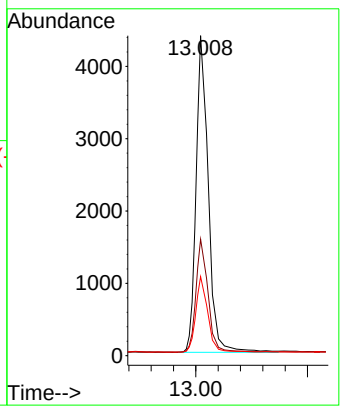


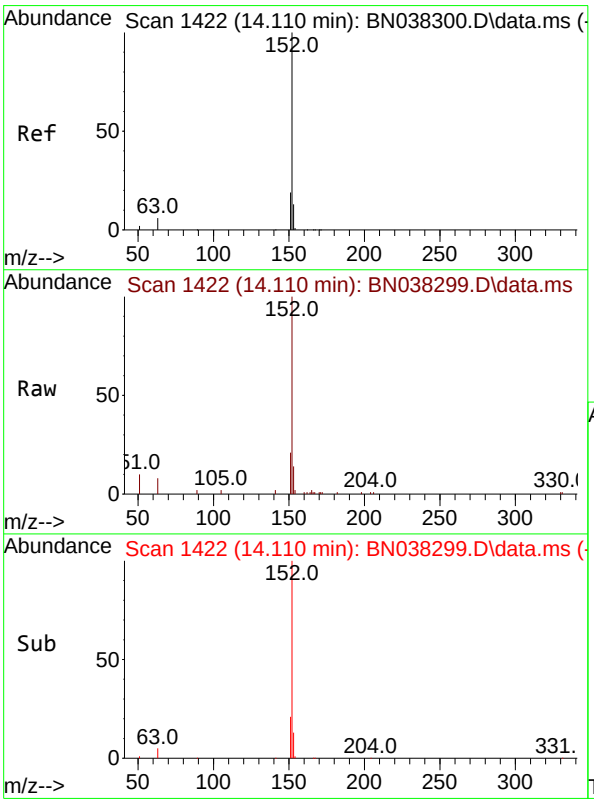
#15
2-Fluorobiphenyl
Concen: 0.203 ng
RT: 13.008 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 7511

Ion	Ratio	Lower	Upper
172	100		
171	36.4	28.6	42.8
170	24.7	19.3	28.9

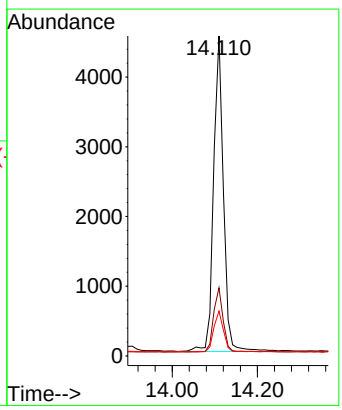


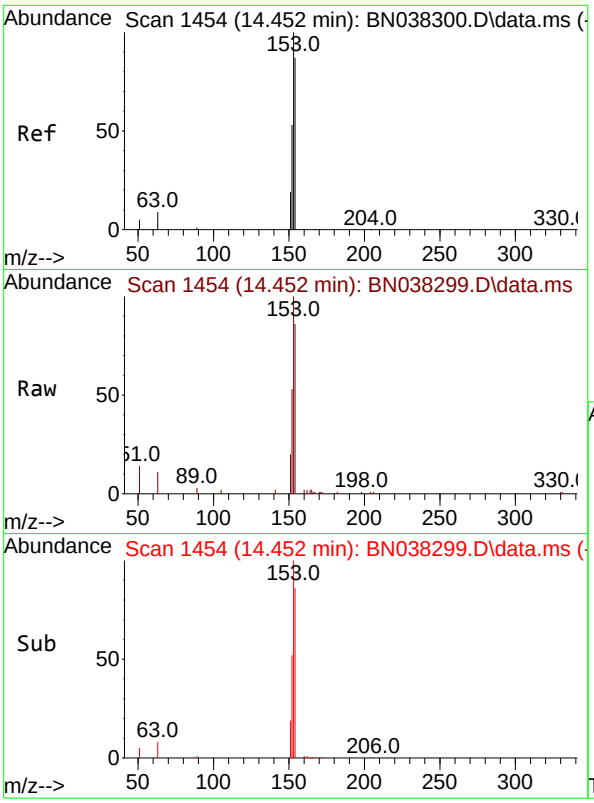


#16
Acenaphthylene
Concen: 0.192 ng
RT: 14.110 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Tgt Ion:152 Resp: 7256

Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.4	23.2
153	12.9	10.2	15.4



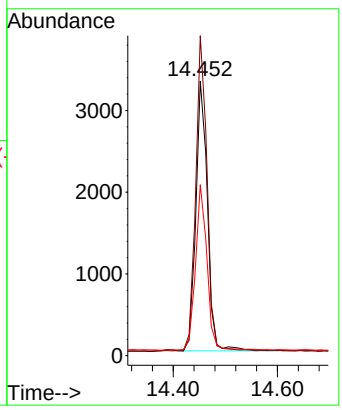


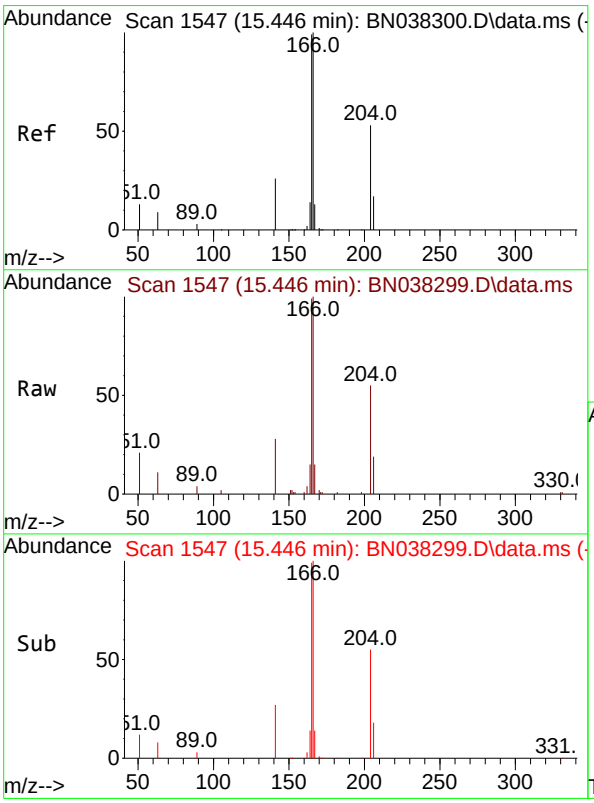
#17
Acenaphthene
Concen: 0.194 ng
RT: 14.452 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 5115

Ion	Ratio	Lower	Upper
154	100		
153	114.1	89.8	134.8
152	61.2	47.5	71.3

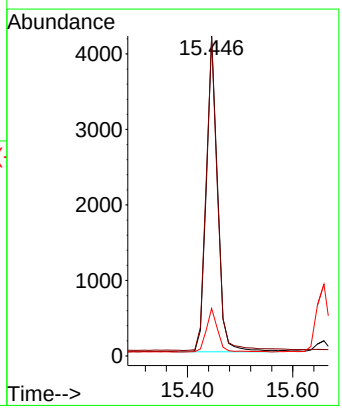


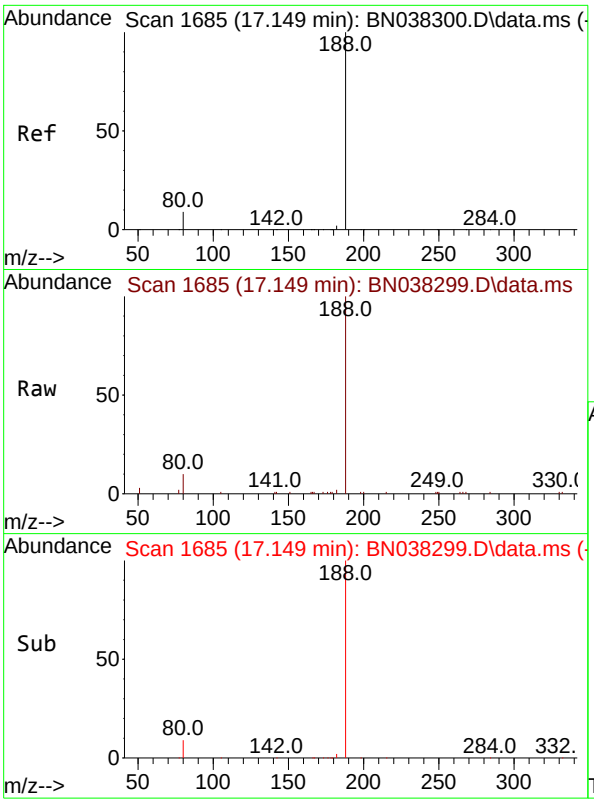


#18
Fluorene
Concen: 0.191 ng
RT: 15.446 min Scan# 1547
Delta R.T. -0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Tgt Ion:166 Resp: 6474

Ion	Ratio	Lower	Upper
166	100		
165	100.6	80.2	120.4
167	13.7	10.6	16.0



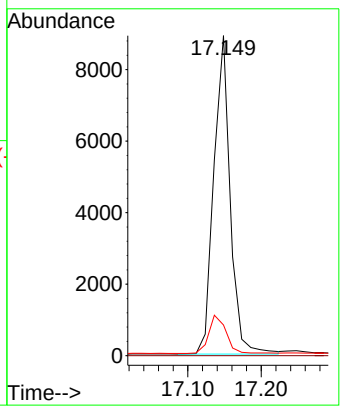


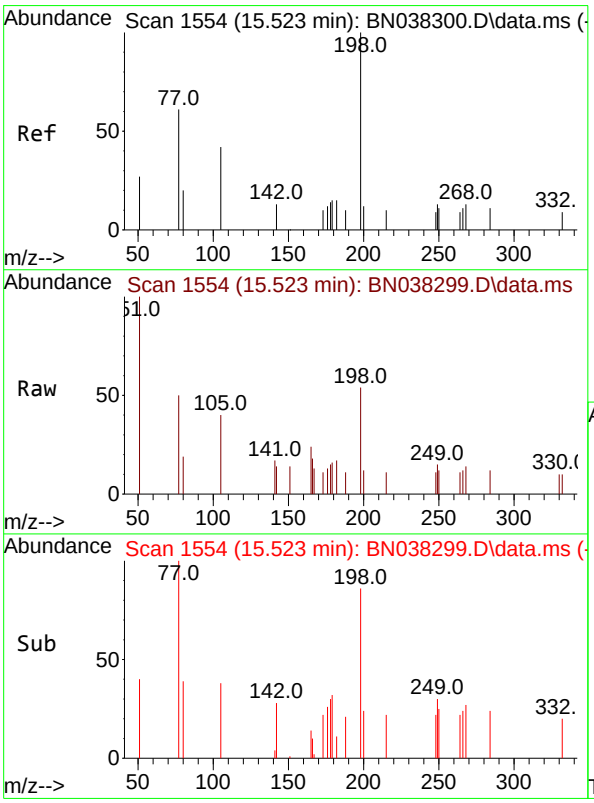
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.149 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 13779

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.6	7.4	11.0

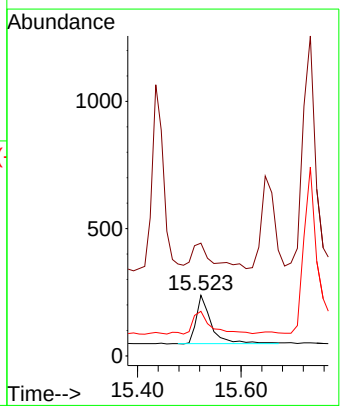


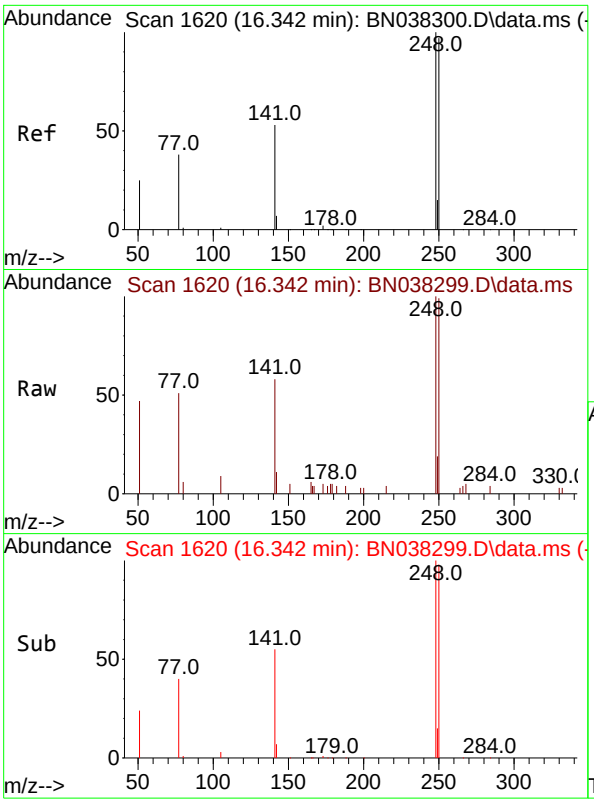


#20
4,6-Dinitro-2-methylphenol
Concen: 0.165 ng
RT: 15.523 min Scan# 1554
Delta R.T. 0.001 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Tgt Ion:198 Resp: 373

Ion	Ratio	Lower	Upper
198	100		
51	186.1	86.3	129.5#
105	73.5	45.3	67.9#



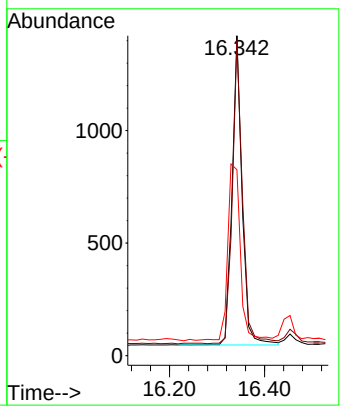


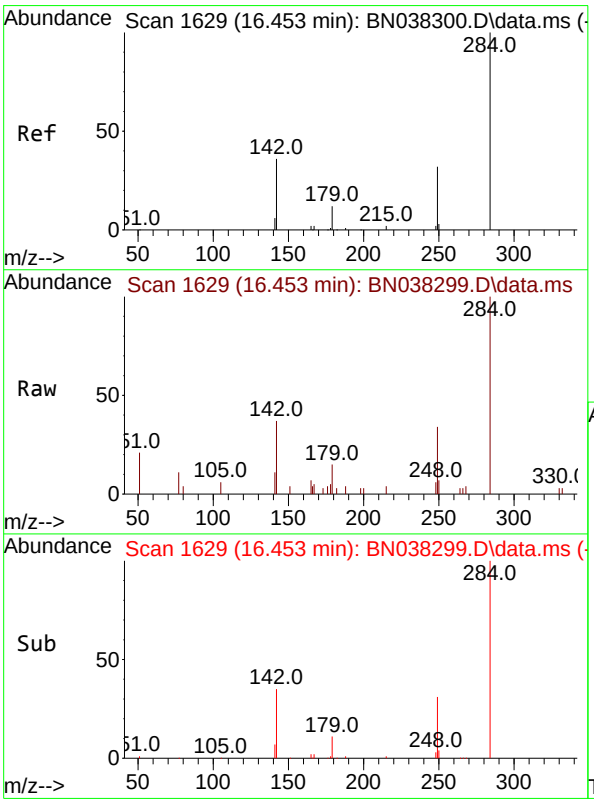
#21
4-Bromophenyl-phenylether
Concen: 0.196 ng
RT: 16.342 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 2003

Ion	Ratio	Lower	Upper
248	100		
250	98.5	78.2	117.2
141	58.1	43.7	65.5

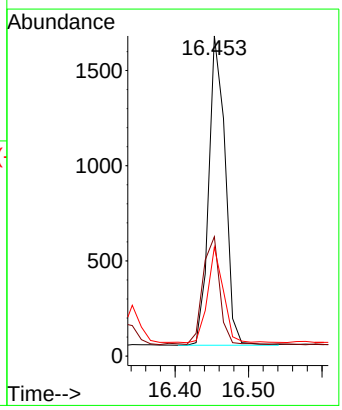


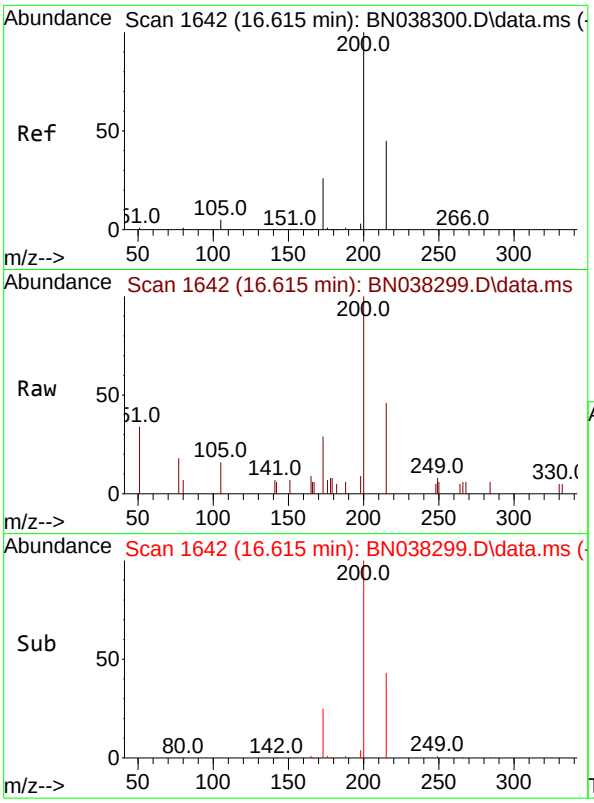


#22
Hexachlorobenzene
Concen: 0.205 ng
RT: 16.453 min Scan# 1629
Delta R.T. -0.012 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Tgt Ion:284 Resp: 2521

Ion	Ratio	Lower	Upper
284	100		
142	36.2	29.5	44.3
249	29.9	23.7	35.5



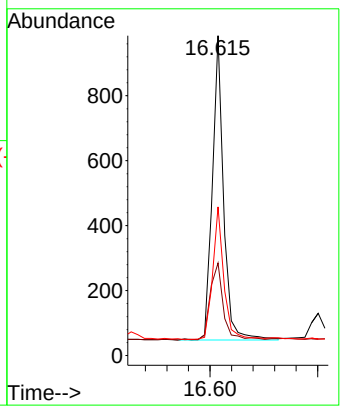


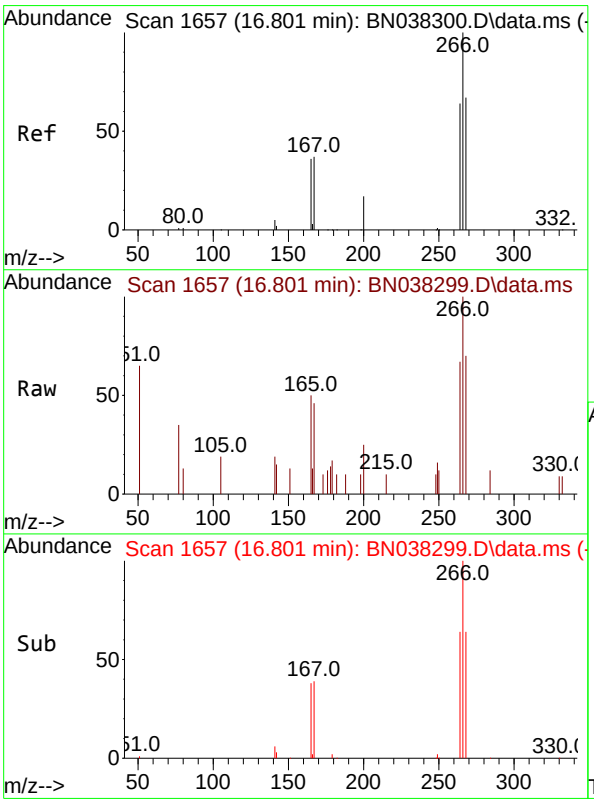
#23
Atrazine
Concen: 0.194 ng
RT: 16.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 1351

Ion	Ratio	Lower	Upper
200	100		
173	28.9	22.1	33.1
215	46.5	37.4	56.2

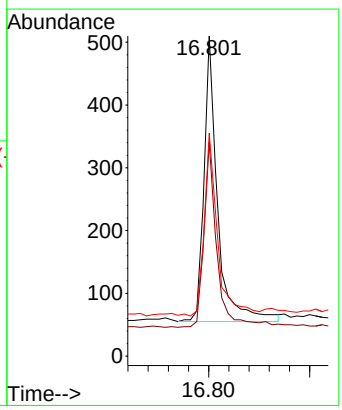


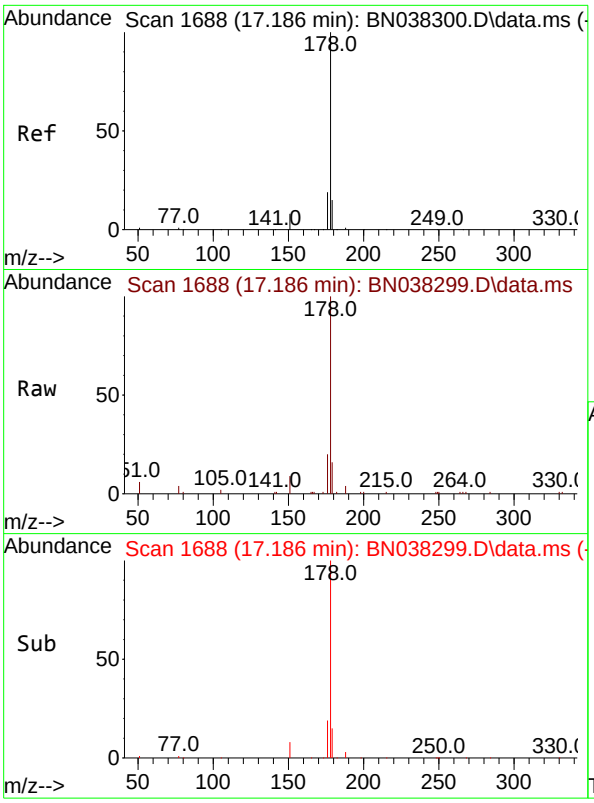


#24
Pentachlorophenol
Concen: 0.178 ng
RT: 16.801 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Tgt Ion:266 Resp: 853

Ion	Ratio	Lower	Upper
266	100		
264	62.1	50.2	75.2
268	62.7	52.6	78.8



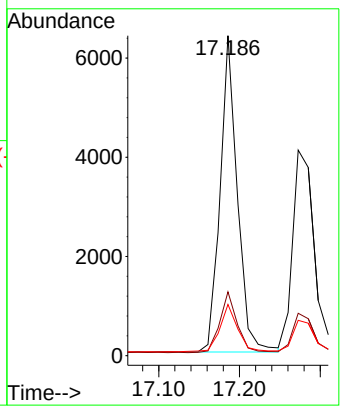


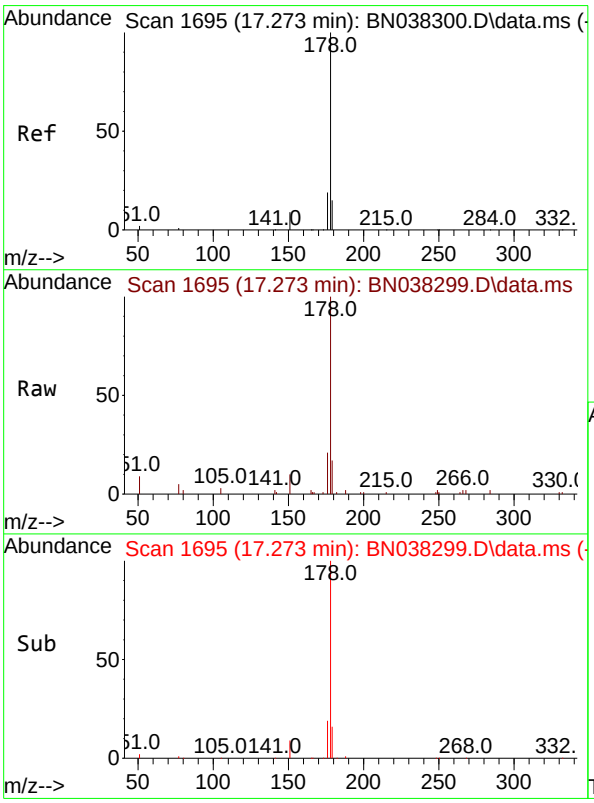
#25
Phenanthrene
Concen: 0.197 ng
RT: 17.186 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 9460

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.5	23.3
179	15.6	12.2	18.2

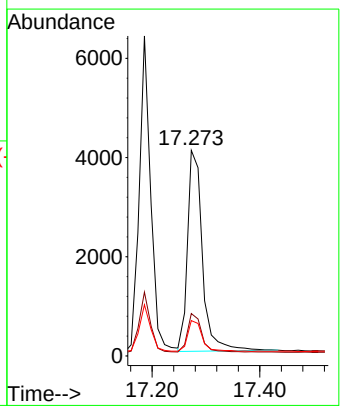


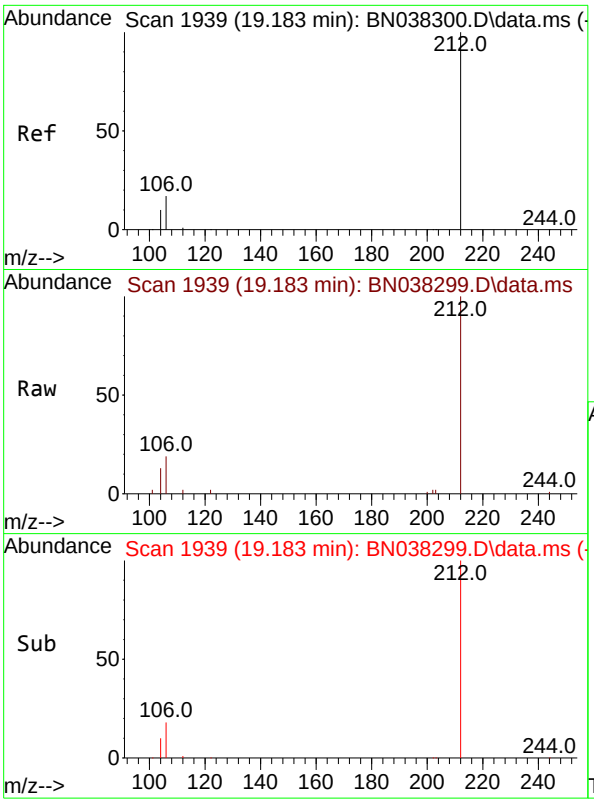


#26
Anthracene
Concen: 0.188 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Tgt Ion:178 Resp: 7793

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.1	22.7
179	15.1	12.0	18.0



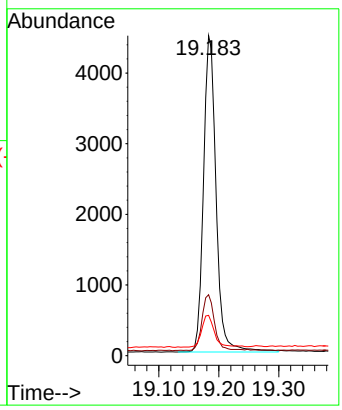


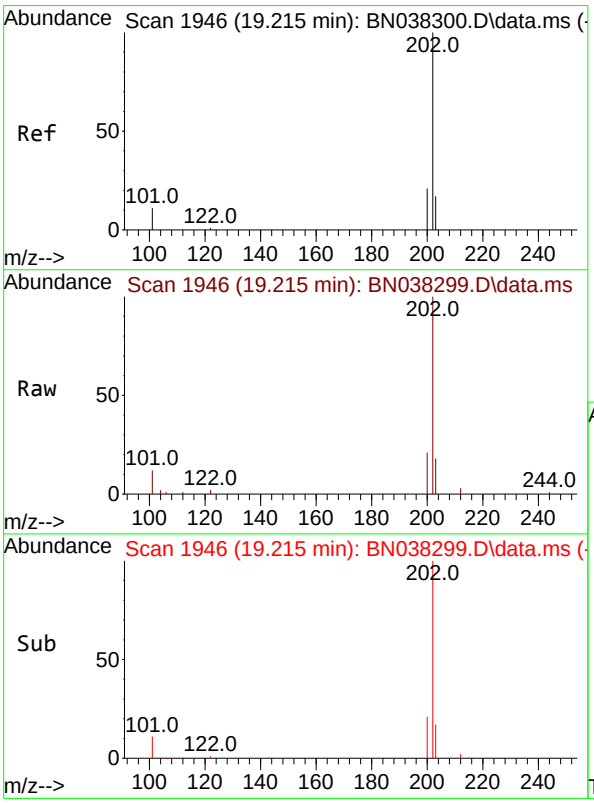
#27
Fluoranthene-d10
Concen: 0.191 ng
RT: 19.183 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 6525

Ion	Ratio	Lower	Upper
212	100		
106	17.5	13.7	20.5
104	10.3	7.8	11.8

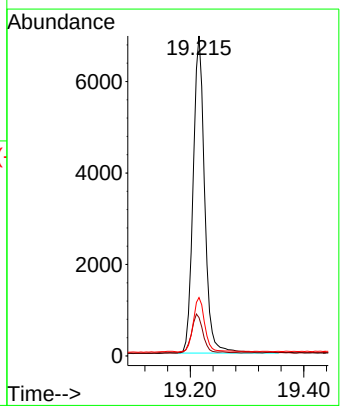


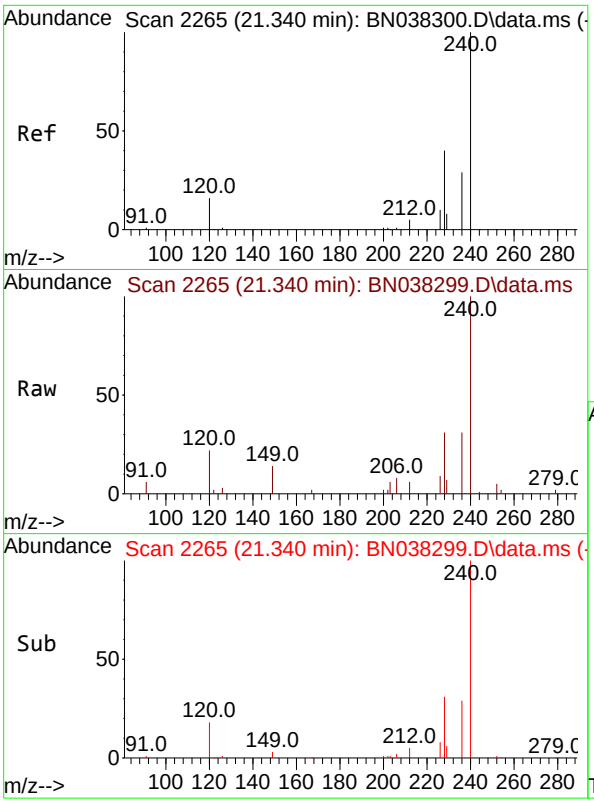


#28
Fluoranthene
Concen: 0.191 ng
RT: 19.215 min Scan# 1946
Delta R.T. -0.005 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Tgt Ion:202 Resp: 9737

Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.6	14.4
203	17.3	13.5	20.3



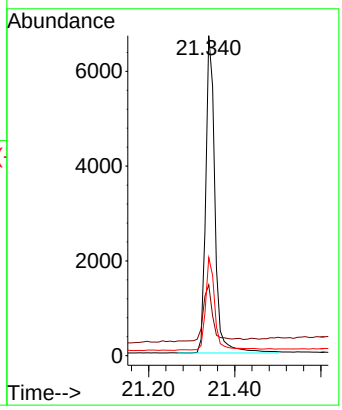


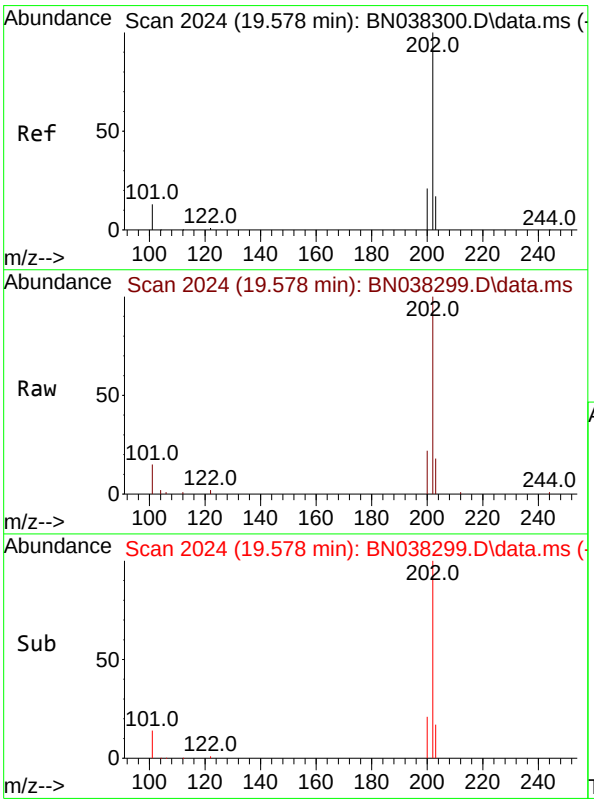
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.340 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 10001

Ion	Ratio	Lower	Upper
240	100		
120	22.1	15.4	23.2
236	30.7	23.9	35.9

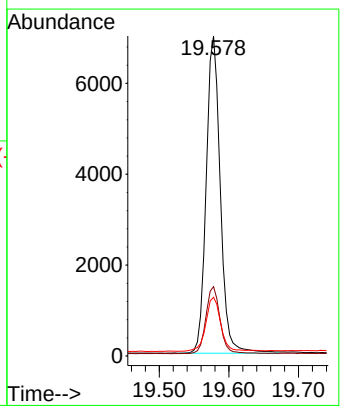


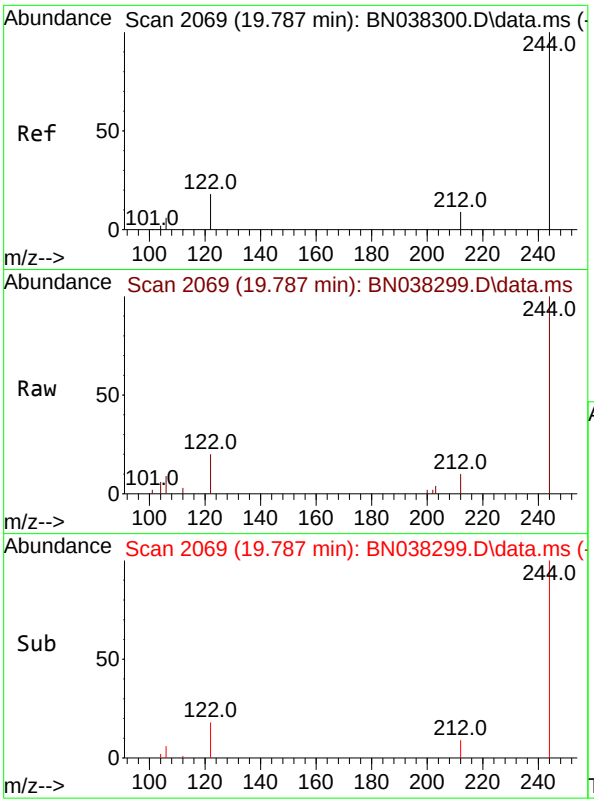


#30
Pyrene
Concen: 0.200 ng
RT: 19.578 min Scan# 2024
Delta R.T. -0.005 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Tgt Ion:202 Resp: 9841

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3
203	17.9	14.2	21.2



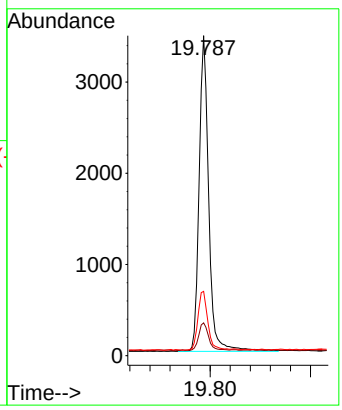


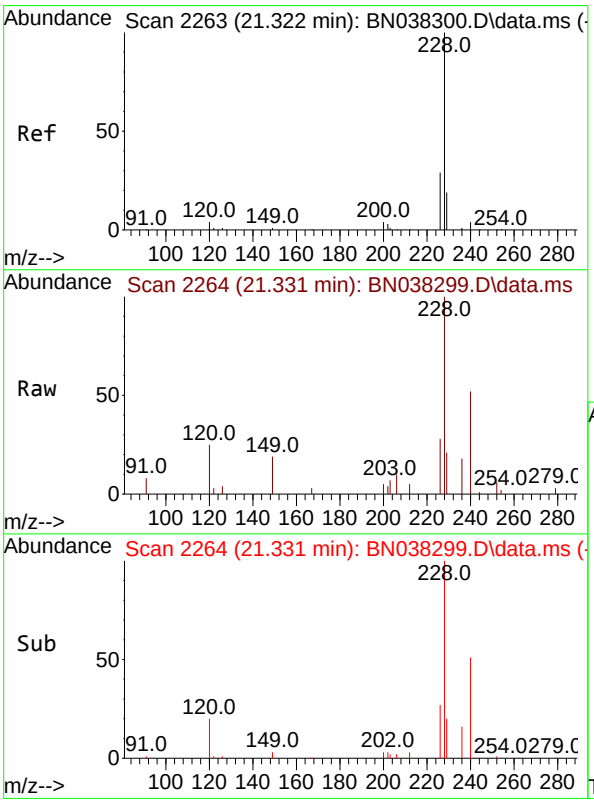
#31
Terphenyl-d14
Concen: 0.205 ng
RT: 19.787 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 4585

Ion	Ratio	Lower	Upper
244	100		
212	10.3	7.9	11.9
122	20.1	15.0	22.6

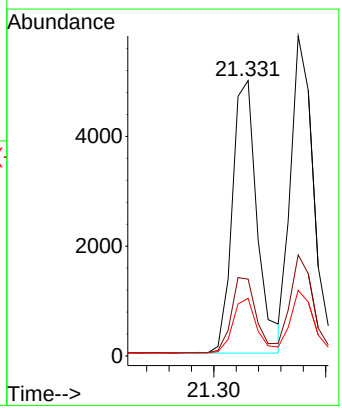


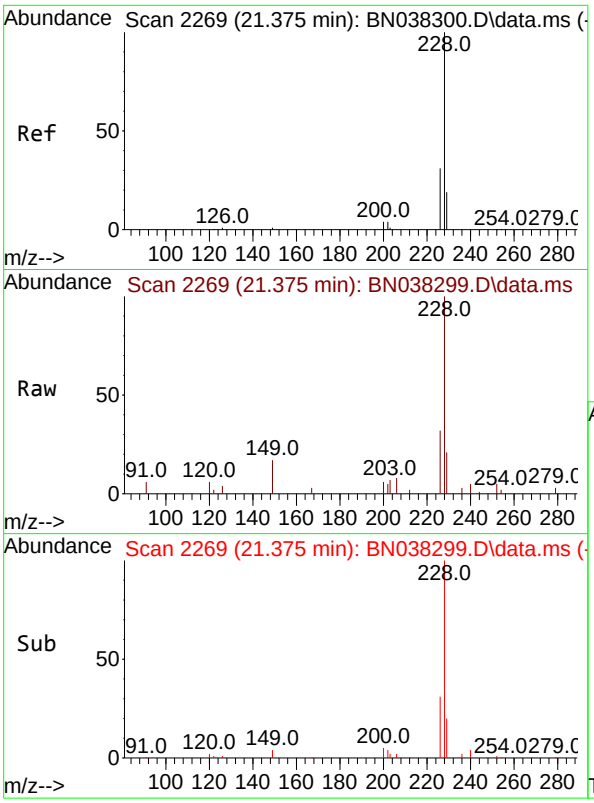


#32
Benzo(a)anthracene
Concen: 0.199 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Tgt Ion:228 Resp: 7688

Ion	Ratio	Lower	Upper
228	100		
226	27.9	23.3	34.9
229	20.9	15.7	23.5



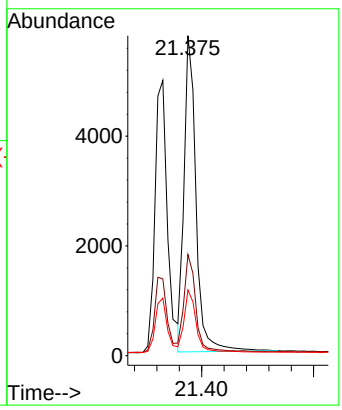


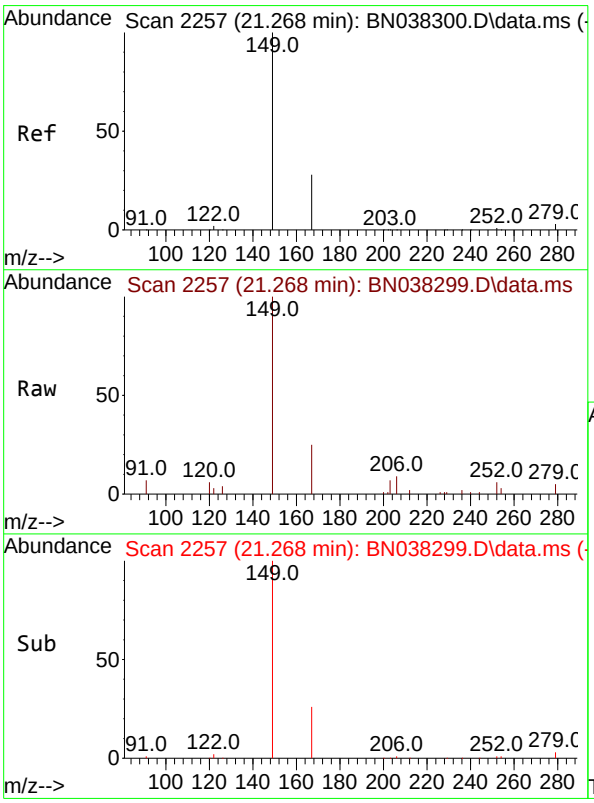
#33
Chrysene
Concen: 0.201 ng
RT: 21.375 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 8559

Ion	Ratio	Lower	Upper
228	100		
226	31.6	25.0	37.4
229	20.5	15.5	23.3

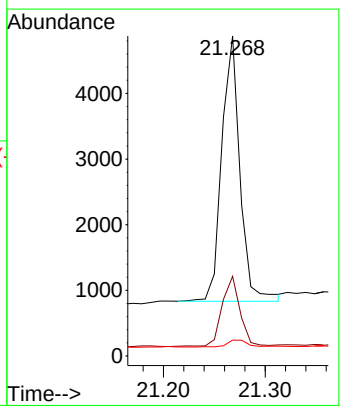


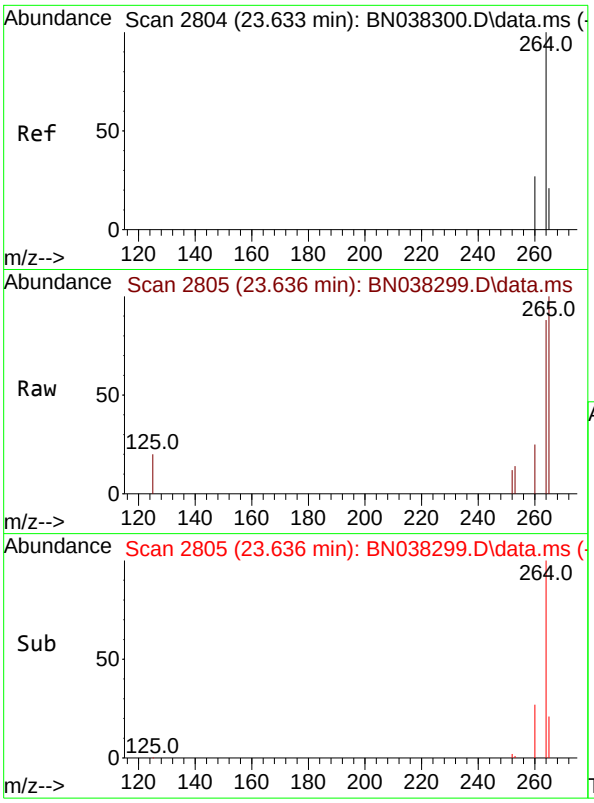


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.236 ng
RT: 21.268 min Scan# 2257
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Tgt Ion:149 Resp: 5010

Ion	Ratio	Lower	Upper
149	100		
167	25.8	21.4	32.0
279	3.4	2.4	3.6



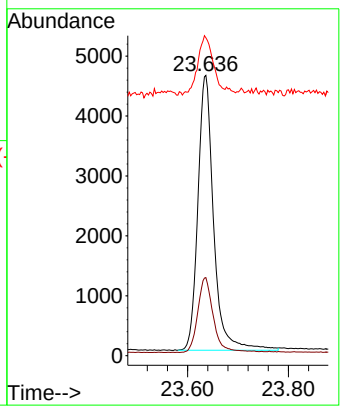


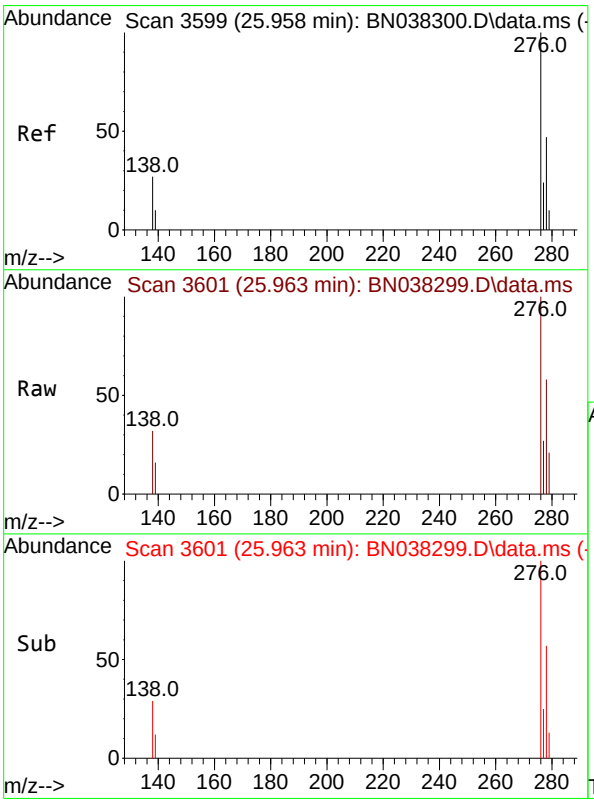
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.636 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 9929

Ion	Ratio	Lower	Upper
264	100		
260	27.8	22.2	33.2
265	113.4	80.2	120.2

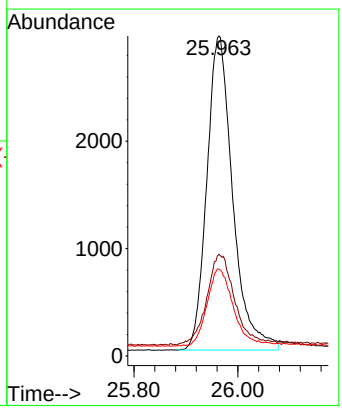


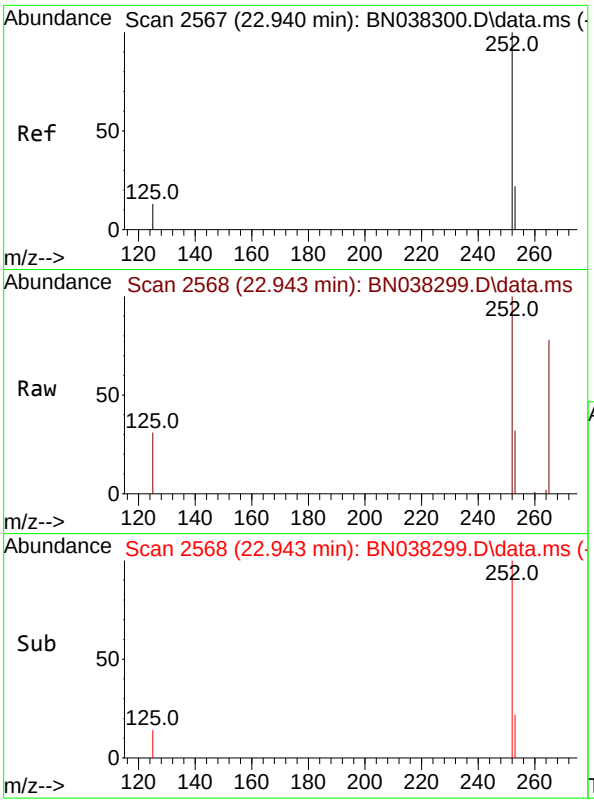


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.192 ng
RT: 25.963 min Scan# 3601
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Tgt Ion:276 Resp: 10127

Ion	Ratio	Lower	Upper
276	100		
138	30.8	23.6	35.4
277	24.3	19.7	29.5



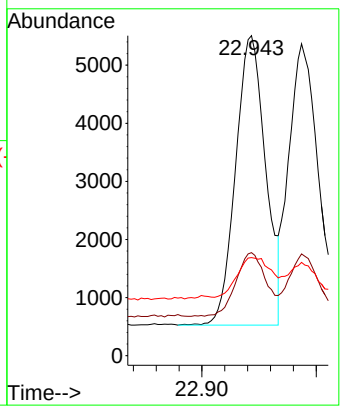


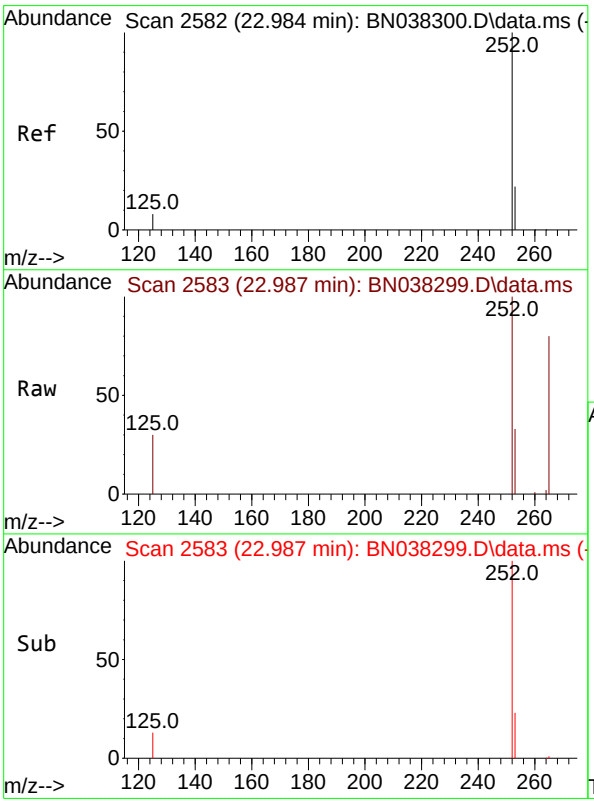
#37
Benzo(b)fluoranthene
Concen: 0.199 ng
RT: 22.943 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 9091

Ion	Ratio	Lower	Upper
252	100		
253	32.2	21.1	31.7#
125	30.6	16.4	24.6#

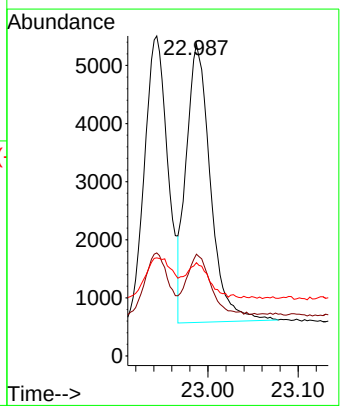


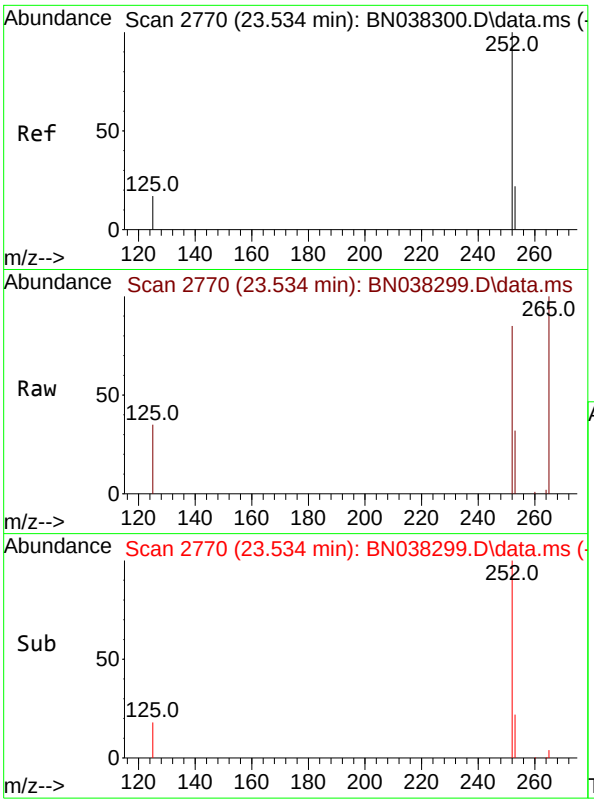


#38
Benzo(k)fluoranthene
Concen: 0.196 ng
RT: 22.987 min Scan# 2583
Delta R.T. -0.003 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Tgt Ion:252 Resp: 8902

Ion	Ratio	Lower	Upper
252	100		
253	32.6	21.4	32.0#
125	29.9	16.2	24.2#



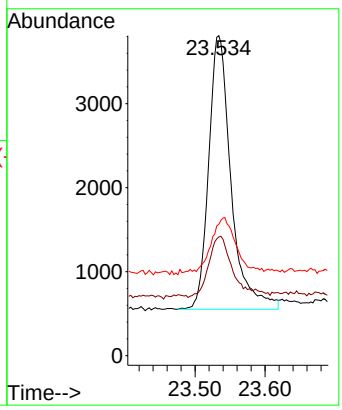


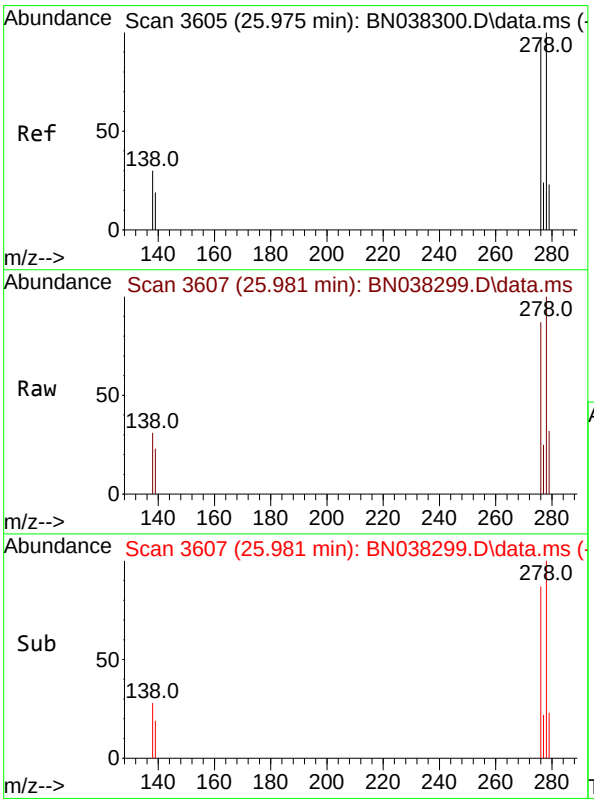
#39
Benzo(a)pyrene
Concen: 0.194 ng
RT: 23.534 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 7243

Ion	Ratio	Lower	Upper
252	100		
253	37.1	23.3	34.9#
125	41.1	22.4	33.6#

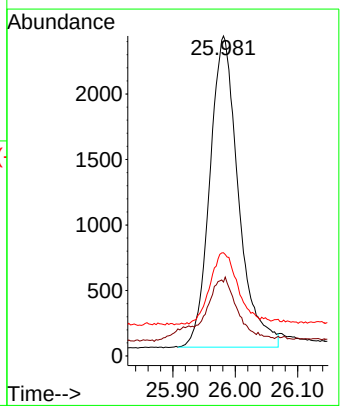


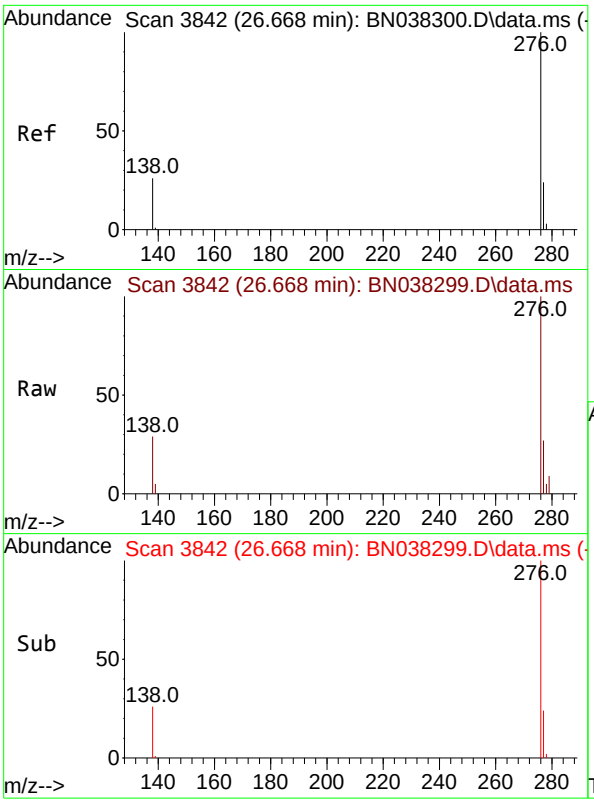


#40
Dibenzo(a,h)anthracene
Concen: 0.186 ng
RT: 25.981 min Scan# 3607
Delta R.T. 0.000 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Tgt Ion:278 Resp: 7551

Ion	Ratio	Lower	Upper
278	100		
139	23.1	17.8	26.8
279	32.3	21.3	31.9#



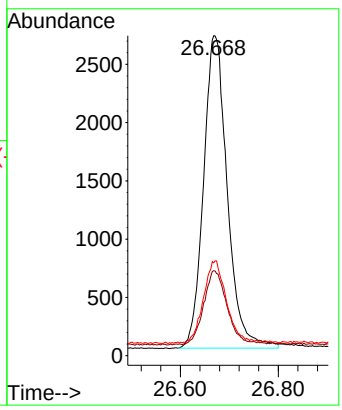


#41
Benzo(g,h,i)perylene
Concen: 0.199 ng
RT: 26.668 min Scan# 3
Delta R.T. -0.009 min
Lab File: BN038299.D
Acq: 10 Dec 2025 10:28

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 9018

Ion	Ratio	Lower	Upper
276	100		
277	26.6	20.0	30.0
138	29.1	21.8	32.6



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121025\
Data File : BN038300.D
Acq On : 10 Dec 2025 11:05
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Dec 10 13:59:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	6216	0.400	ng		0.00
7) Naphthalene-d8	10.530	136	16402	0.400	ng		0.00
13) Acenaphthene-d10	14.388	164	8187	0.400	ng		-0.01
19) Phenanthrene-d10	17.149	188	14825	0.400	ng		0.00
29) Chrysene-d12	21.340	240	11516	0.400	ng		0.00
35) Perylene-d12	23.633	264	11519	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	6141	0.397	ng		0.00
5) Phenol-d6	6.887	99	7155	0.389	ng		0.00
8) Nitrobenzene-d5	8.875	82	5397	0.390	ng		0.00
11) 2-Methylnaphthalene-d10	12.126	152	9006	0.389	ng		0.00
14) 2,4,6-Tribromophenol	15.895	330	1371	0.377	ng		0.00
15) 2-Fluorobiphenyl	13.008	172	15778	0.400	ng		0.00
27) Fluoranthene-d10	19.183	212	14593	0.398	ng		0.00
31) Terphenyl-d14	19.787	244	10141	0.395	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.196	88	2892	0.406	ng		100
3) n-Nitrosodimethylamine	3.507	42	3533	0.395	ng		100
6) bis(2-Chloroethyl)ether	7.147	93	7250	0.403	ng		100
9) Naphthalene	10.573	128	19154	0.395	ng		100
10) Hexachlorobutadiene	10.872	225	3444	0.400	ng	#	100
12) 2-Methylnaphthalene	12.197	142	11982	0.389	ng		100
16) Acenaphthylene	14.110	152	15581	0.388	ng		100
17) Acenaphthene	14.452	154	10983	0.392	ng		100
18) Fluorene	15.446	166	13979	0.388	ng		100
20) 4,6-Dinitro-2-methylph...	15.523	198	840	0.344	ng		100
21) 4-Bromophenyl-phenylether	16.342	248	4253	0.387	ng		100
22) Hexachlorobenzene	16.453	284	5190	0.393	ng		100
23) Atrazine	16.615	200	2824	0.376	ng		100
24) Pentachlorophenol	16.801	266	1789	0.347	ng		100
25) Phenanthrene	17.186	178	20202	0.392	ng		100
26) Anthracene	17.273	178	16986	0.382	ng		100
28) Fluoranthene	19.215	202	21635	0.394	ng		100
30) Pyrene	19.578	202	22115	0.390	ng		100
32) Benzo(a)anthracene	21.322	228	17031	0.383	ng		100
33) Chrysene	21.375	228	19820	0.405	ng		100
34) Bis(2-ethylhexyl)phtha...	21.268	149	9726	0.399	ng		100
36) Indeno(1,2,3-cd)pyrene	25.958	276	24439	0.400	ng		100
37) Benzo(b)fluoranthene	22.940	252	20540	0.388	ng		100
38) Benzo(k)fluoranthene	22.984	252	20691	0.392	ng		100
39) Benzo(a)pyrene	23.534	252	16923	0.391	ng		100
40) Dibenzo(a,h)anthracene	25.975	278	18646	0.396	ng		100
41) Benzo(g,h,i)perylene	26.668	276	20868	0.396	ng		100

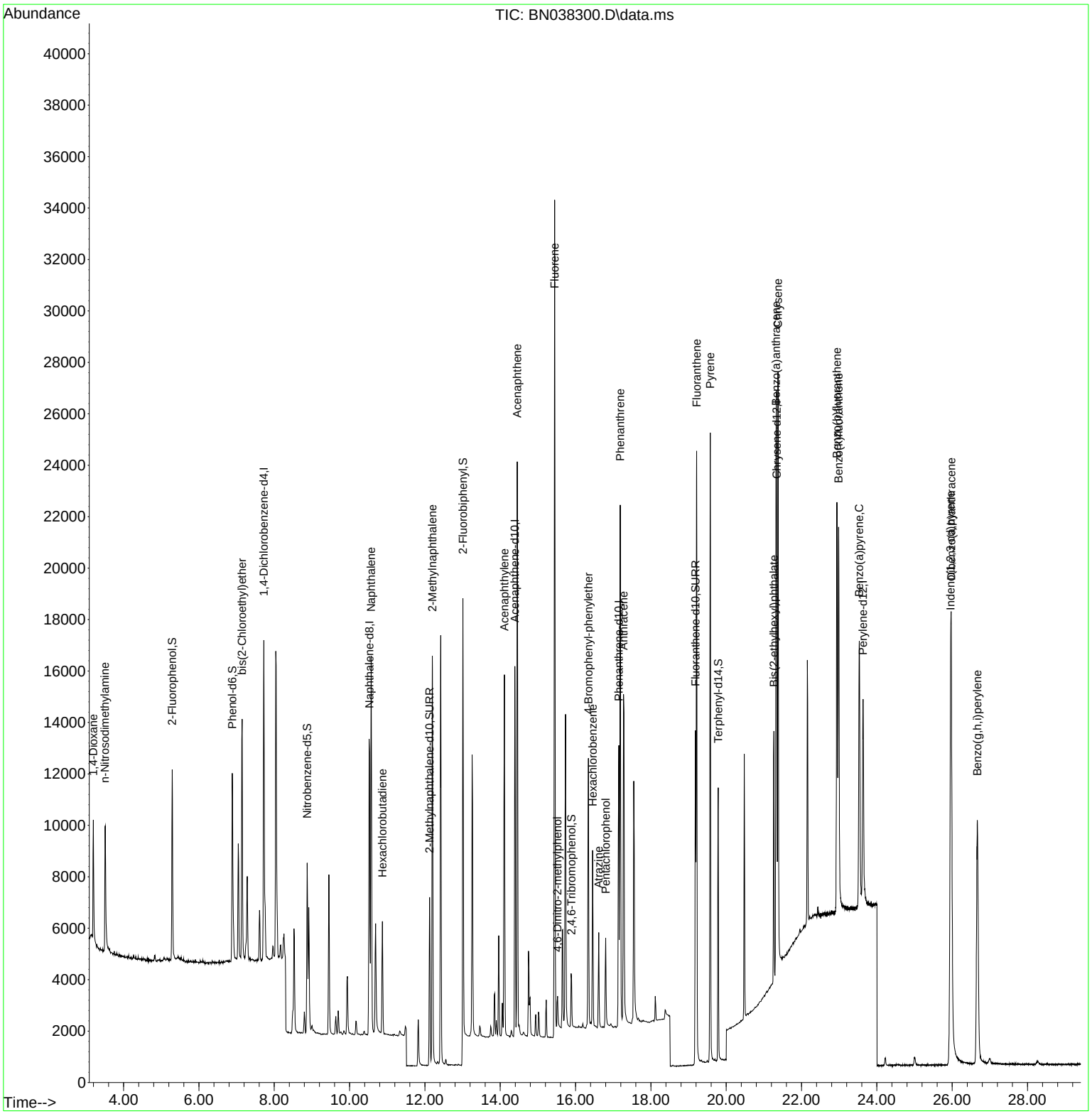
(#) = qualifier out of range (m) = manual integration (+) = signals summed

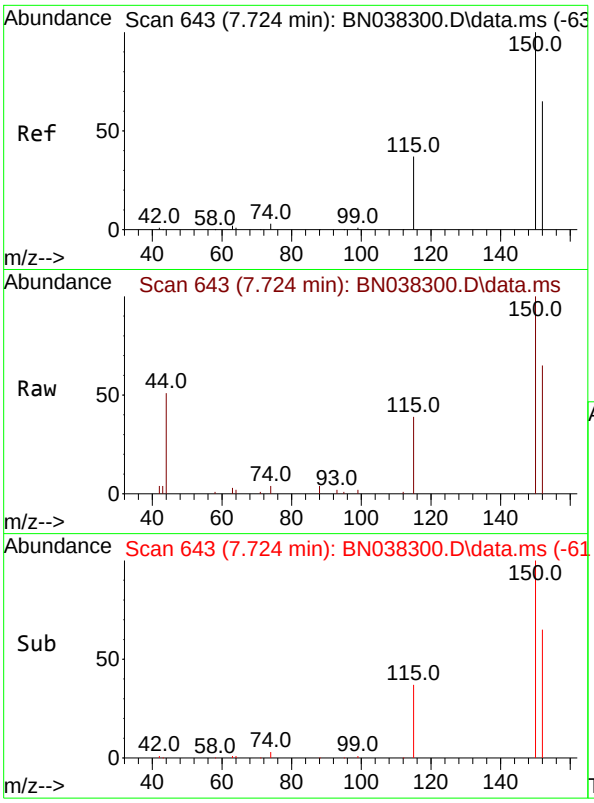
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121025\
Data File : BN038300.D
Acq On : 10 Dec 2025 11:05
Operator : RC/JU
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Dec 10 13:59:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration



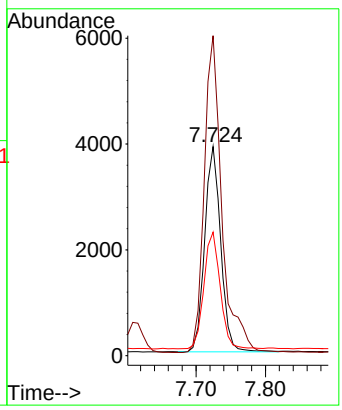


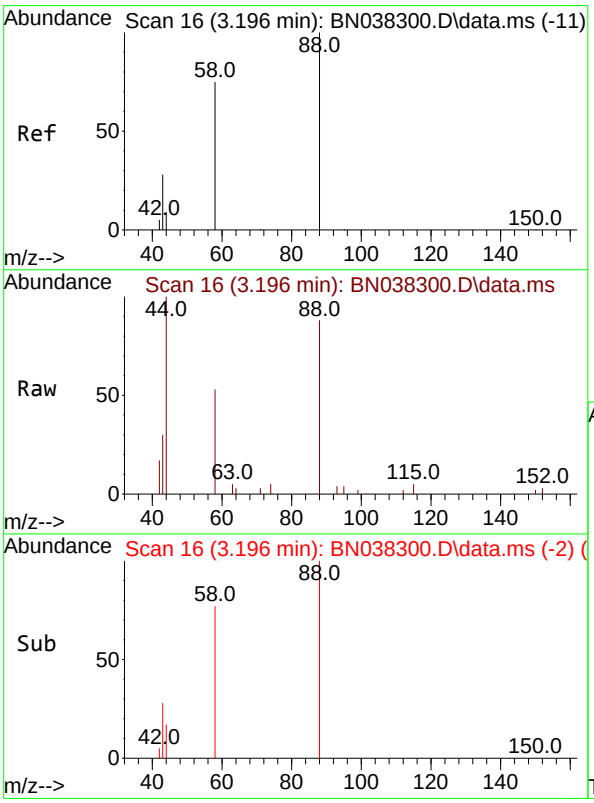
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 6216

Ion	Ratio	Lower	Upper
152	100		
150	153.0	122.4	183.6
115	59.1	47.3	70.9

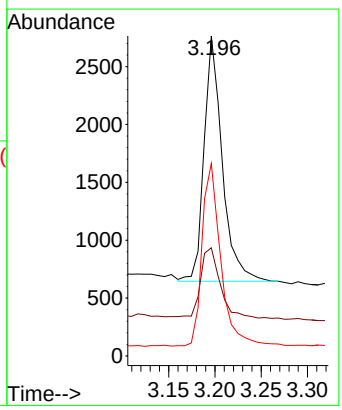


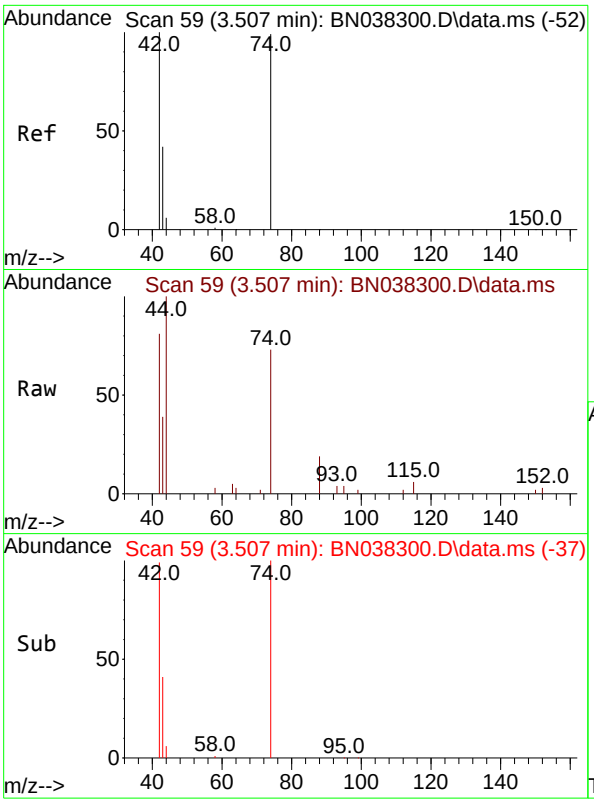


#2
1,4-Dioxane
Concen: 0.406 ng
RT: 3.196 min Scan# 16
Delta R.T. 0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Tgt Ion: 88 Resp: 2892

Ion	Ratio	Lower	Upper
88	100		
43	31.1	24.9	37.3
58	76.7	61.4	92.0



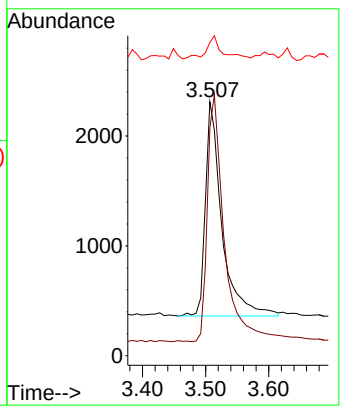


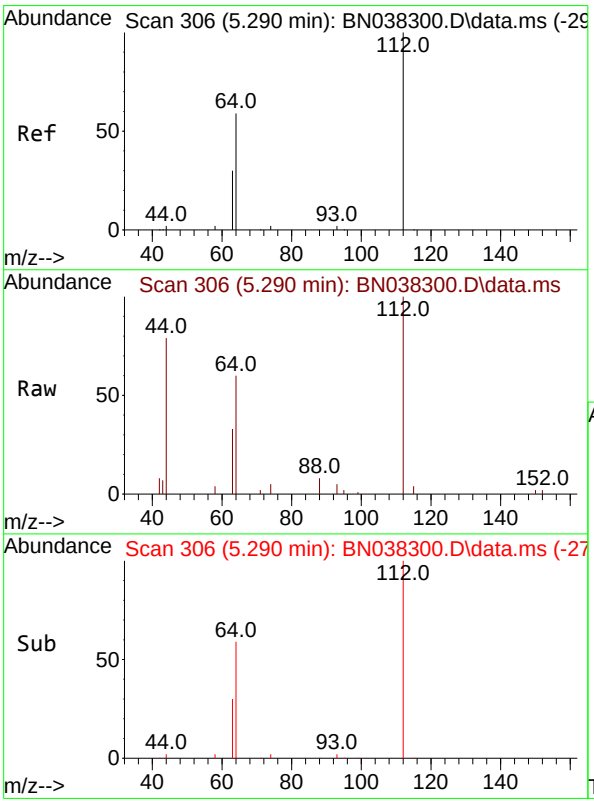
#3
n-Nitrosodimethylamine
Concen: 0.395 ng
RT: 3.507 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 3533

Ion	Ratio	Lower	Upper
42	100		
74	119.3	95.3	142.9
44	10.0	7.9	11.9

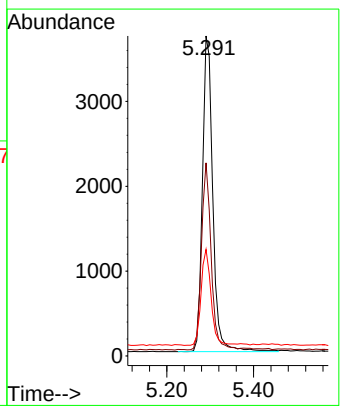


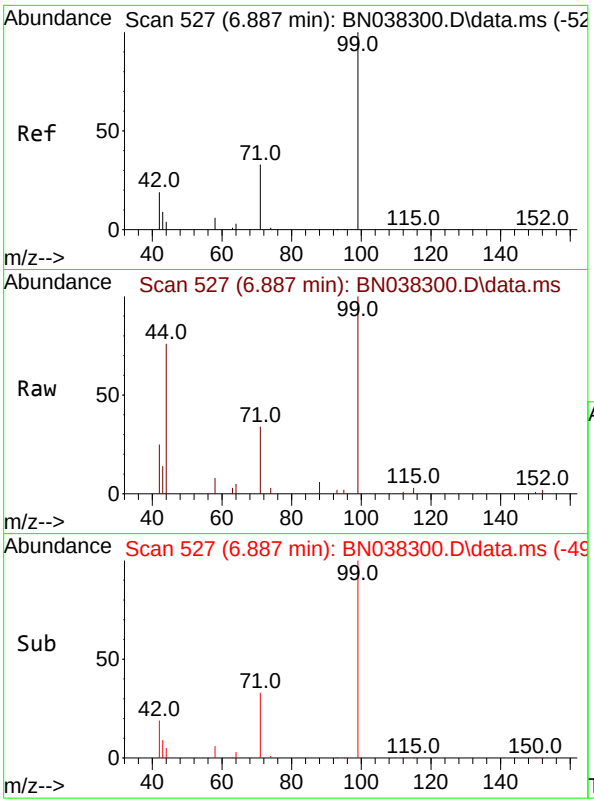


#4
2-Fluorophenol
Concen: 0.397 ng
RT: 5.290 min Scan# 306
Delta R.T. 0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Tgt Ion:112 Resp: 6141

Ion	Ratio	Lower	Upper
112	100		
64	55.5	44.4	66.6
63	29.2	23.4	35.0



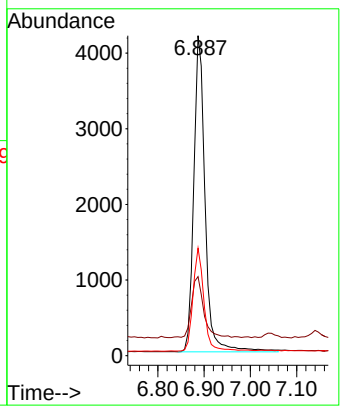


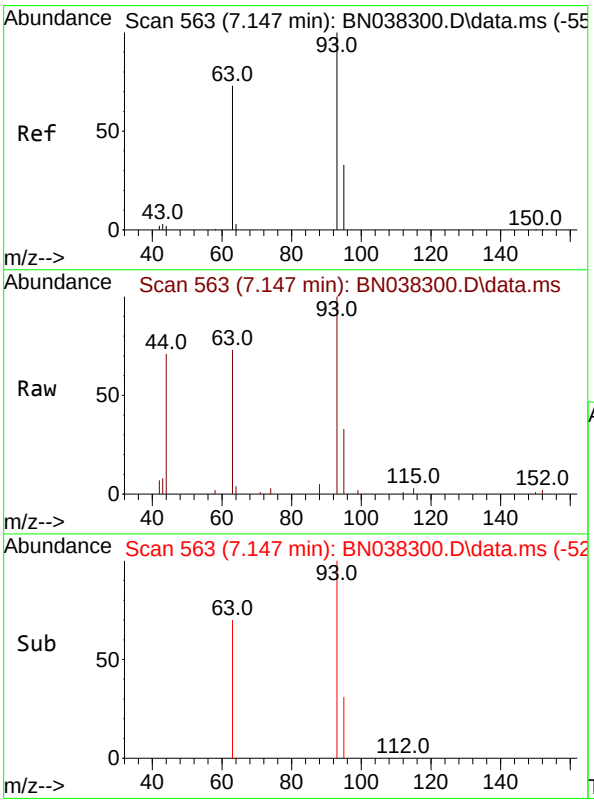
#5
Phenol-d6
Concen: 0.389 ng
RT: 6.887 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 7155

Ion	Ratio	Lower	Upper
99	100		
42	20.6	16.5	24.7
71	31.1	24.9	37.3

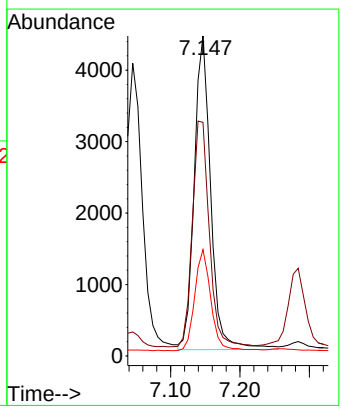


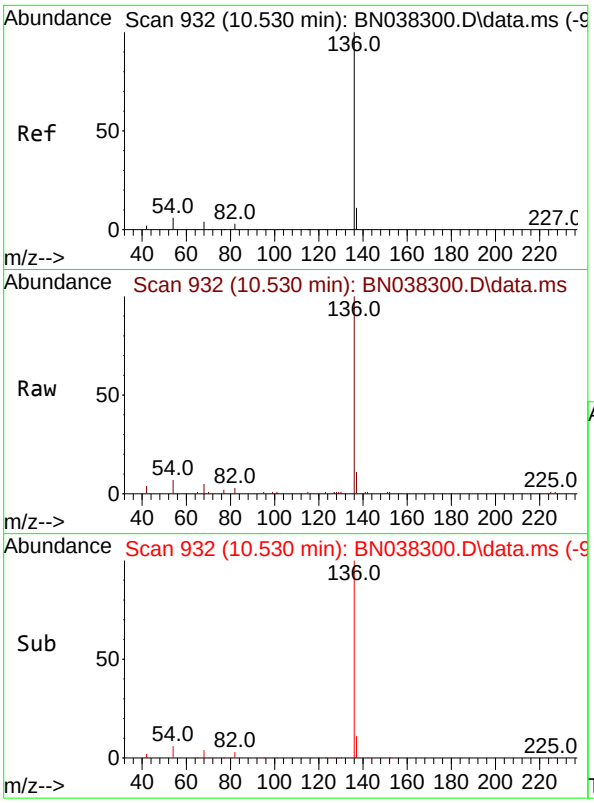


#6
bis(2-Chloroethyl)ether
Concen: 0.403 ng
RT: 7.147 min Scan# 563
Delta R.T. 0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Tgt Ion: 93 Resp: 7250

Ion	Ratio	Lower	Upper
93	100		
63	74.0	59.2	88.8
95	31.5	25.2	37.8



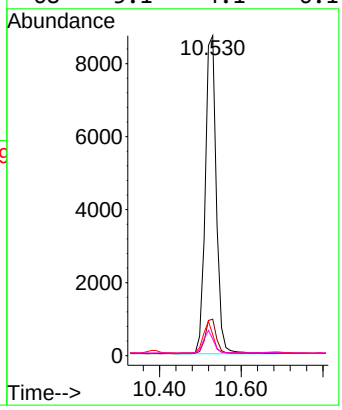


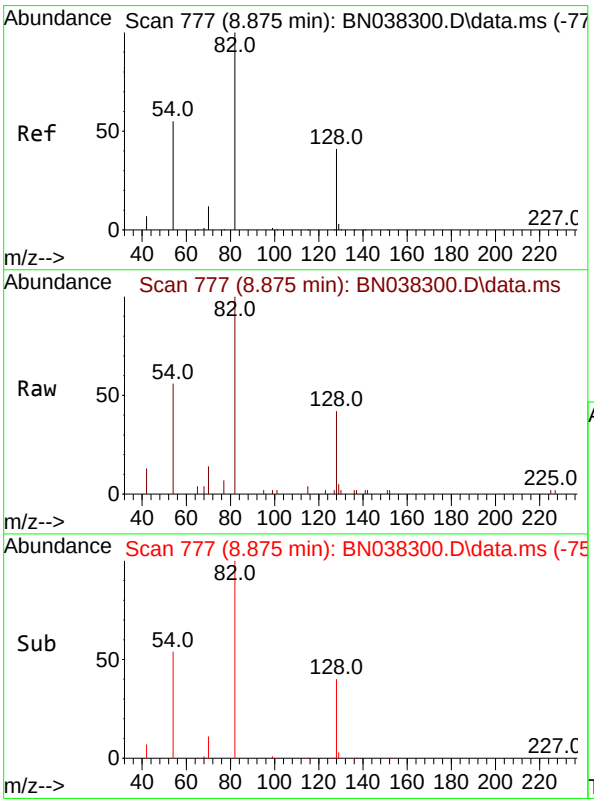
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.530 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 16402

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	6.5	5.2	7.8
68	5.1	4.1	6.1

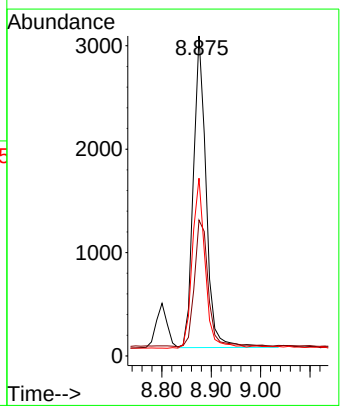


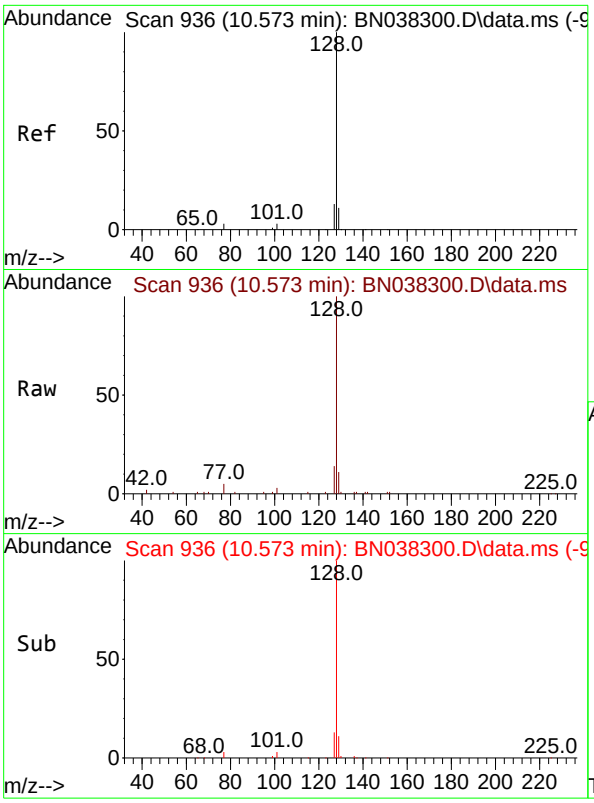


#8
Nitrobenzene-d5
Concen: 0.390 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Tgt Ion: 82 Resp: 5397

Ion	Ratio	Lower	Upper
82	100		
128	42.5	34.0	51.0
54	55.5	44.4	66.6



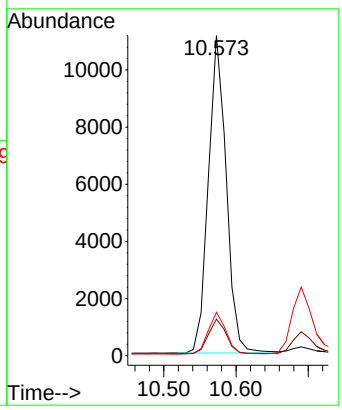


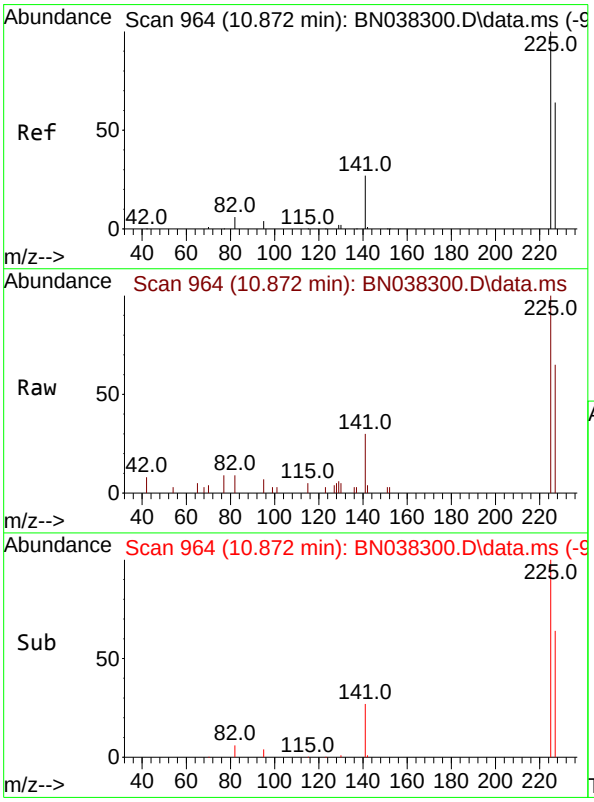
#9
Naphthalene
Concen: 0.395 ng
RT: 10.573 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 19154

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.1	13.7
127	13.6	10.9	16.3

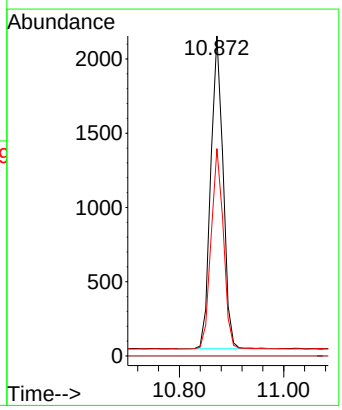


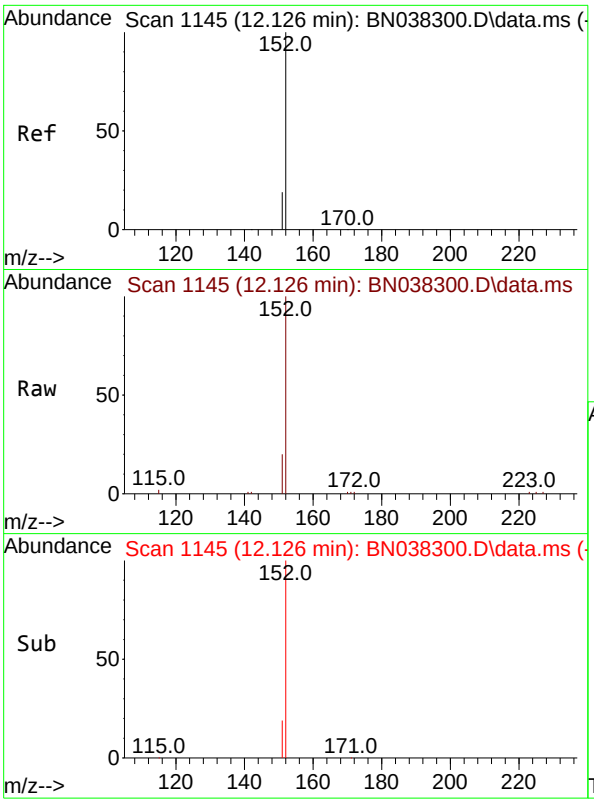


#10
Hexachlorobutadiene
Concen: 0.400 ng
RT: 10.872 min Scan# 964
Delta R.T. 0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Tgt Ion:225 Resp: 3444

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	51.2	76.8



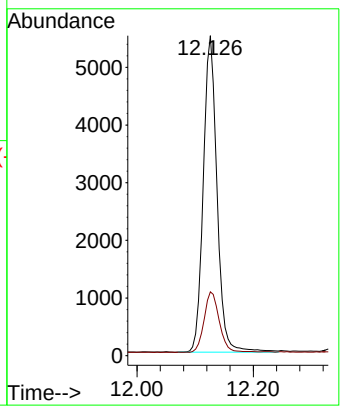


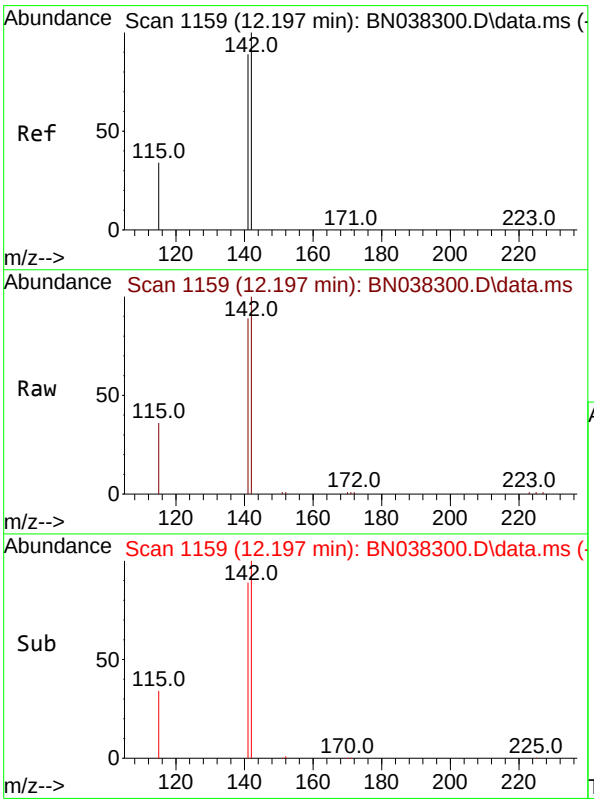
#11
2-Methylnaphthalene-d10
Concen: 0.389 ng
RT: 12.126 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 9006

Ion	Ratio	Lower	Upper
152	100		
151	21.3	17.0	25.6

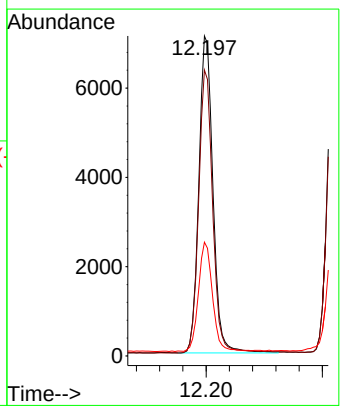


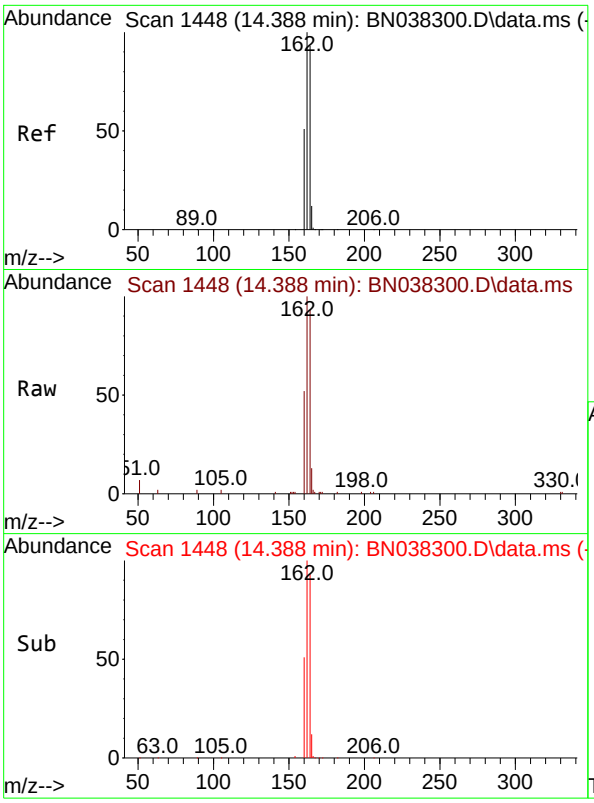


#12
2-Methylnaphthalene
Concen: 0.389 ng
RT: 12.197 min Scan# 1159
Delta R.T. -0.005 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Tgt Ion:142 Resp: 11982

Ion	Ratio	Lower	Upper
142	100		
141	89.3	71.4	107.2
115	35.5	28.4	42.6



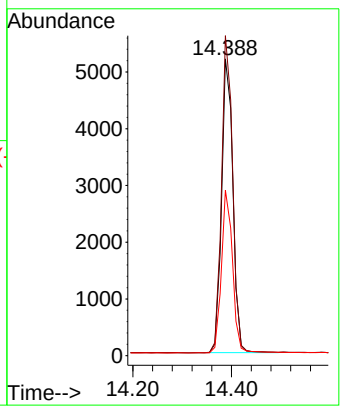


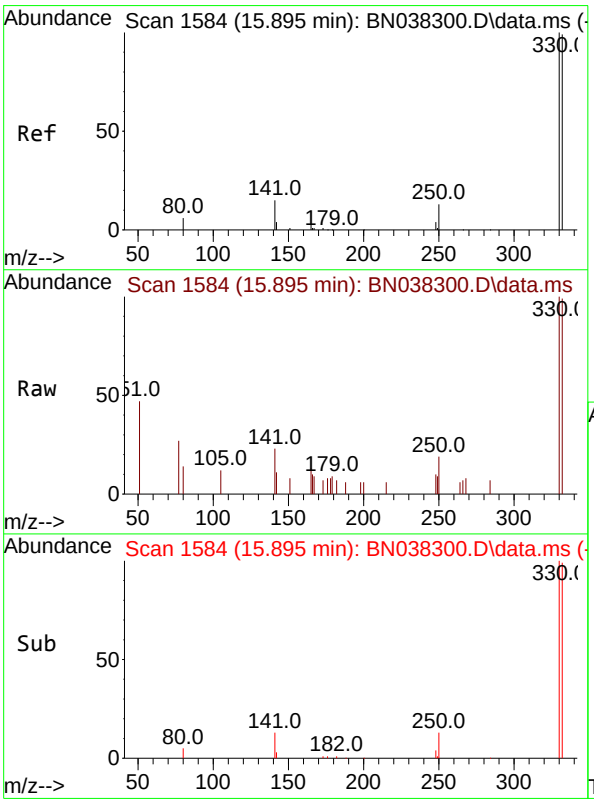
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 8187

Ion	Ratio	Lower	Upper
164	100		
162	107.8	86.2	129.4
160	55.8	44.6	67.0

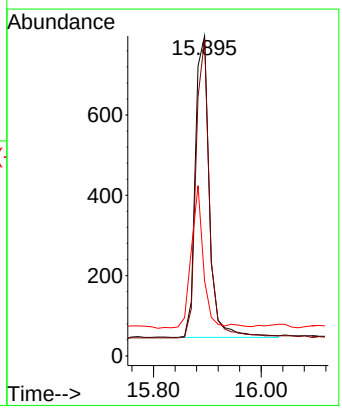


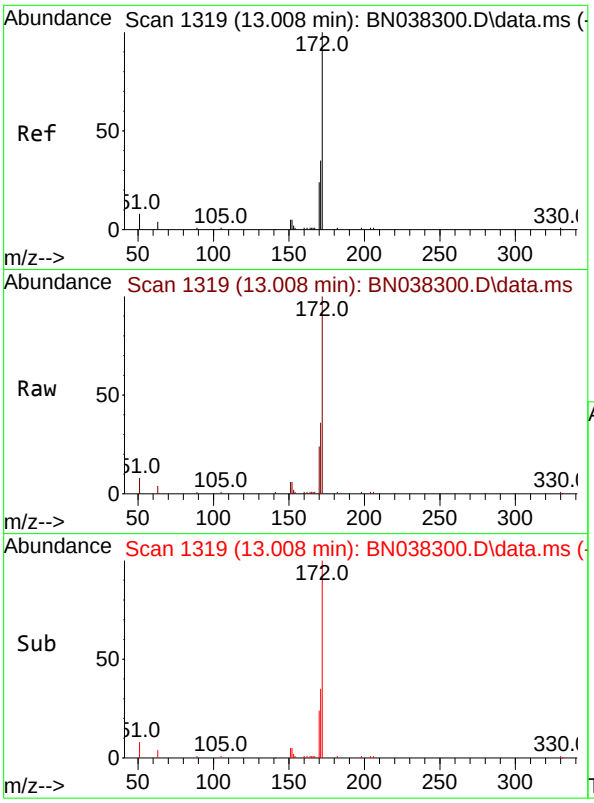


#14
2,4,6-Tribromophenol
Concen: 0.377 ng
RT: 15.895 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Tgt Ion:330 Resp: 1371

Ion	Ratio	Lower	Upper
330	100		
332	94.4	75.8	113.6
141	39.8	31.8	47.8



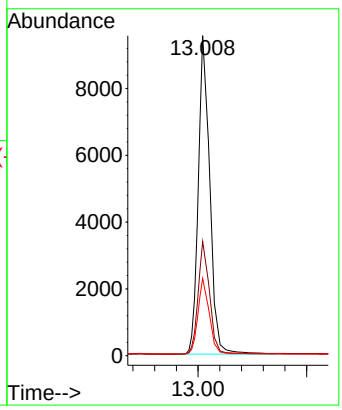


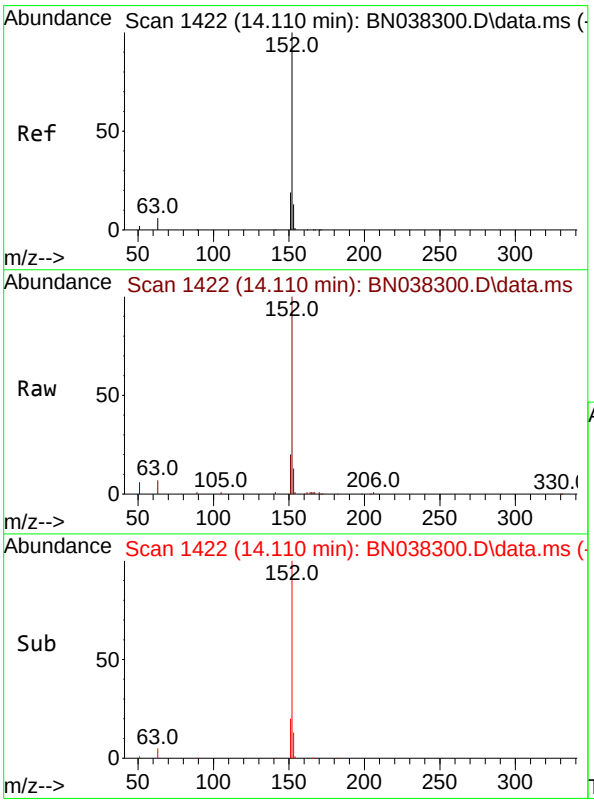
#15
2-Fluorobiphenyl
Concen: 0.400 ng
RT: 13.008 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 15778

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	42.8
170	24.1	19.3	28.9

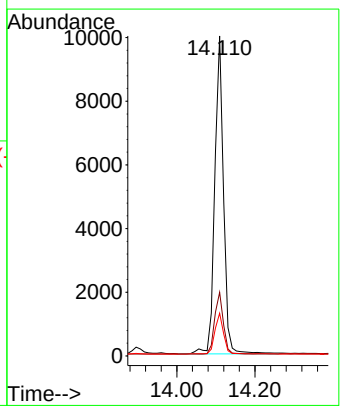


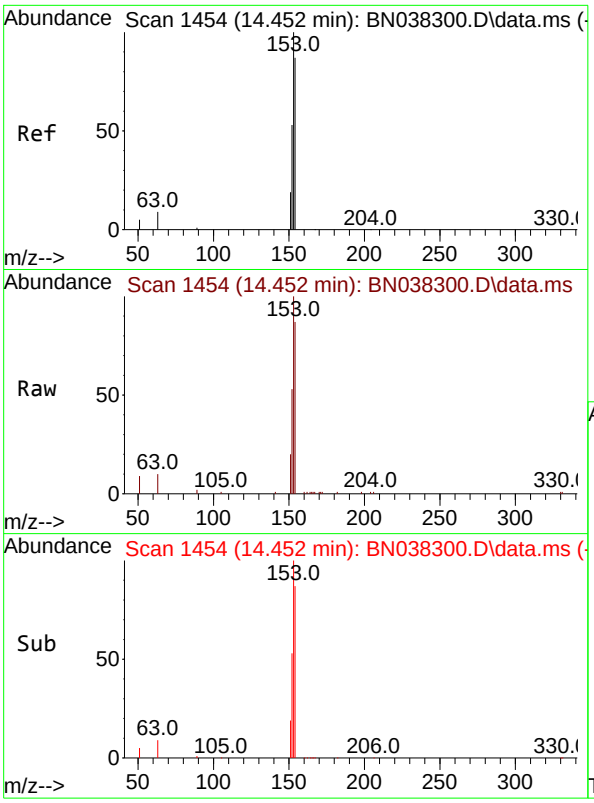


#16
Acenaphthylene
Concen: 0.388 ng
RT: 14.110 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Tgt Ion:152 Resp: 15581

Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.4	23.2
153	12.8	10.2	15.4



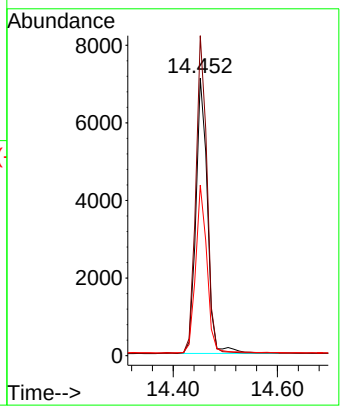


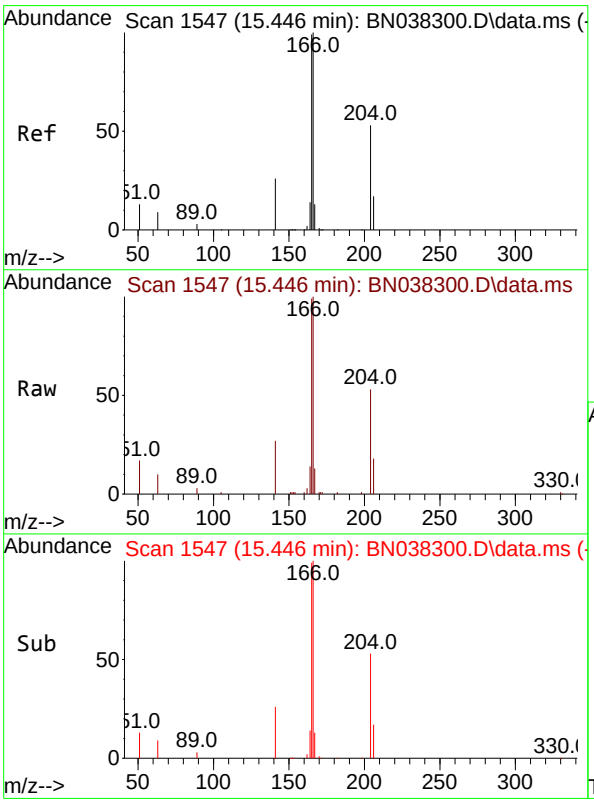
#17
Acenaphthene
Concen: 0.392 ng
RT: 14.452 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:154 Resp: 10983

Ion	Ratio	Lower	Upper
154	100		
153	112.3	89.8	134.8
152	59.4	47.5	71.3

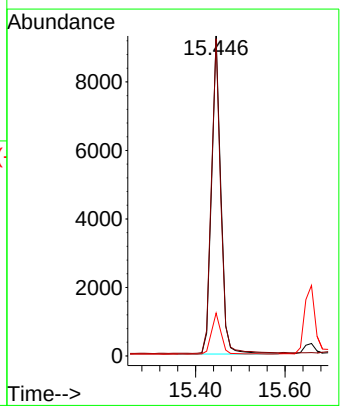


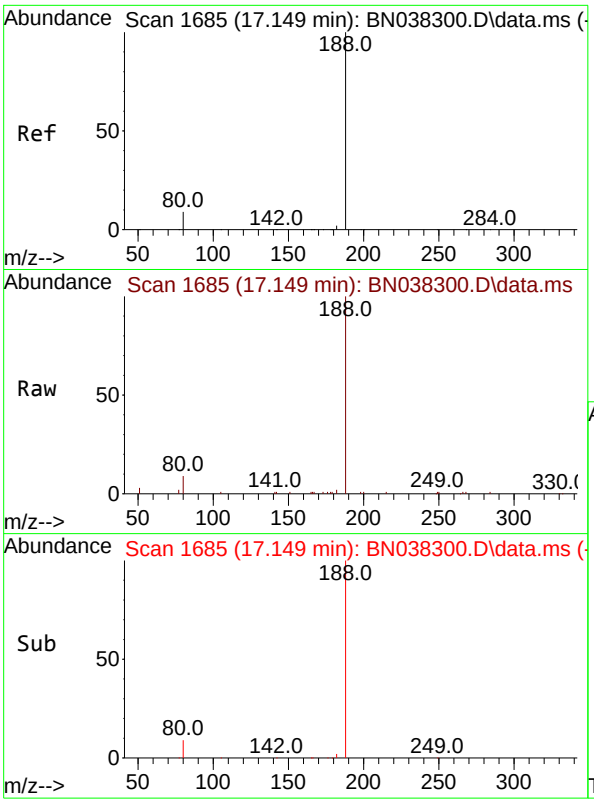


#18
Fluorene
Concen: 0.388 ng
RT: 15.446 min Scan# 1547
Delta R.T. -0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Tgt Ion:166 Resp: 13979

Ion	Ratio	Lower	Upper
166	100		
165	100.3	80.2	120.4
167	13.3	10.6	16.0



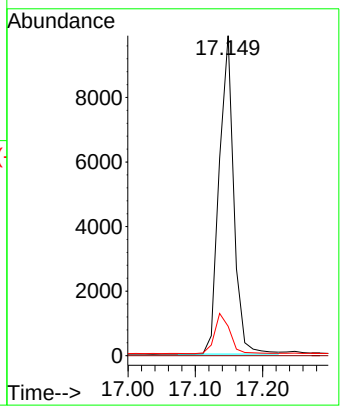


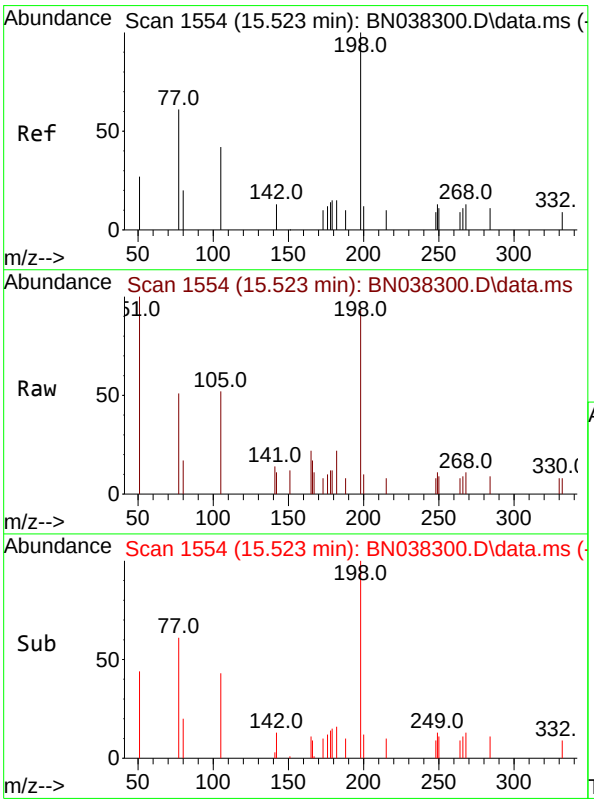
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.149 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 14825

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.2	7.4	11.0

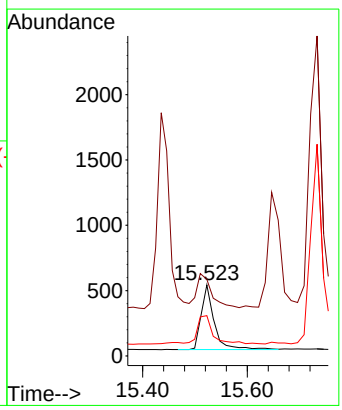


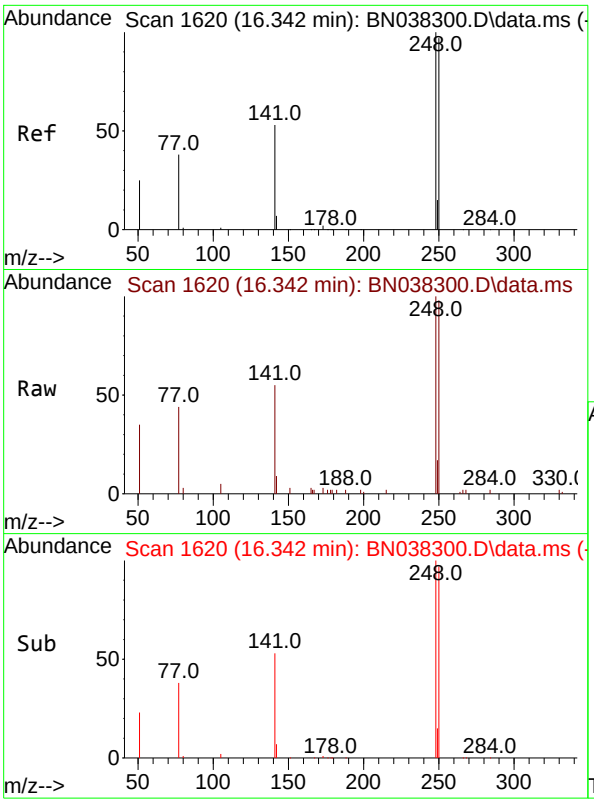


#20
4,6-Dinitro-2-methylphenol
Concen: 0.344 ng
RT: 15.523 min Scan# 1554
Delta R.T. 0.001 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Tgt Ion:198 Resp: 840

Ion	Ratio	Lower	Upper
198	100		
51	107.9	86.3	129.5
105	56.6	45.3	67.9



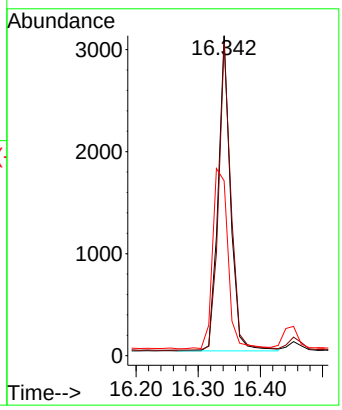


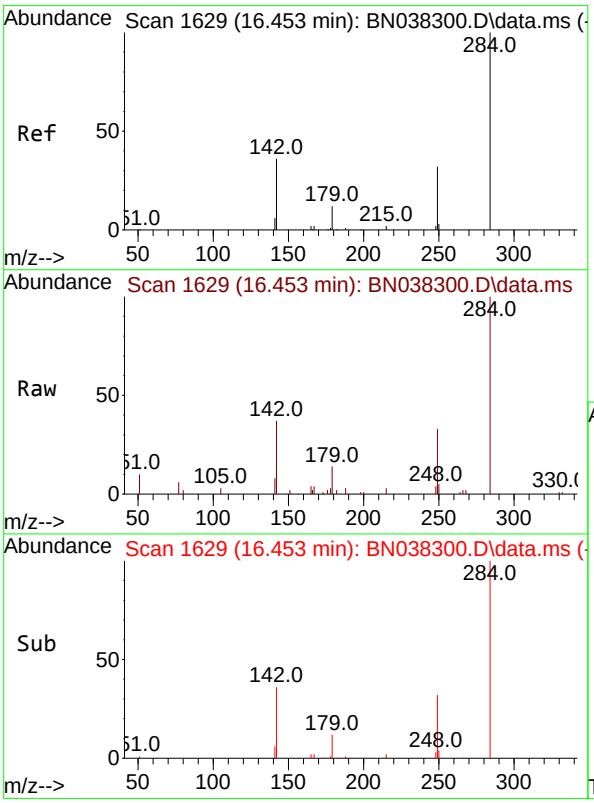
#21
4-Bromophenyl-phenylether
Concen: 0.387 ng
RT: 16.342 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 4253

Ion	Ratio	Lower	Upper
248	100		
250	97.7	78.2	117.2
141	54.6	43.7	65.5

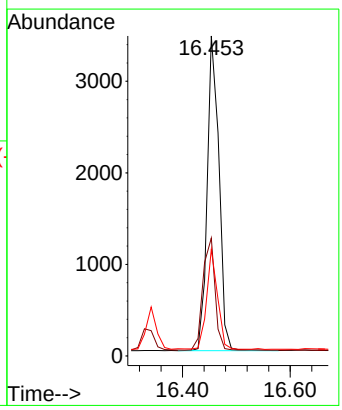


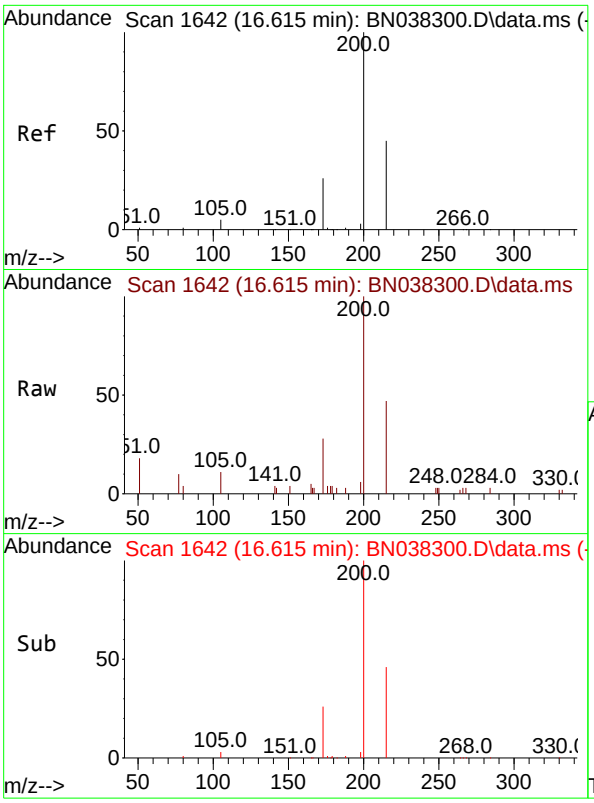


#22
Hexachlorobenzene
Concen: 0.393 ng
RT: 16.453 min Scan# 1629
Delta R.T. -0.012 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Tgt Ion:284 Resp: 5190

Ion	Ratio	Lower	Upper
284	100		
142	36.9	29.5	44.3
249	29.6	23.7	35.5



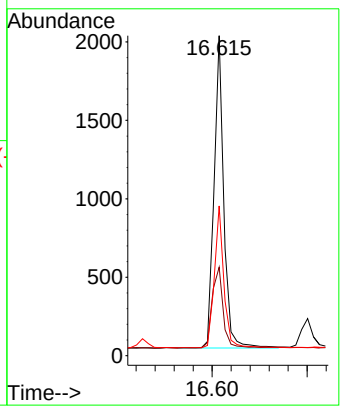


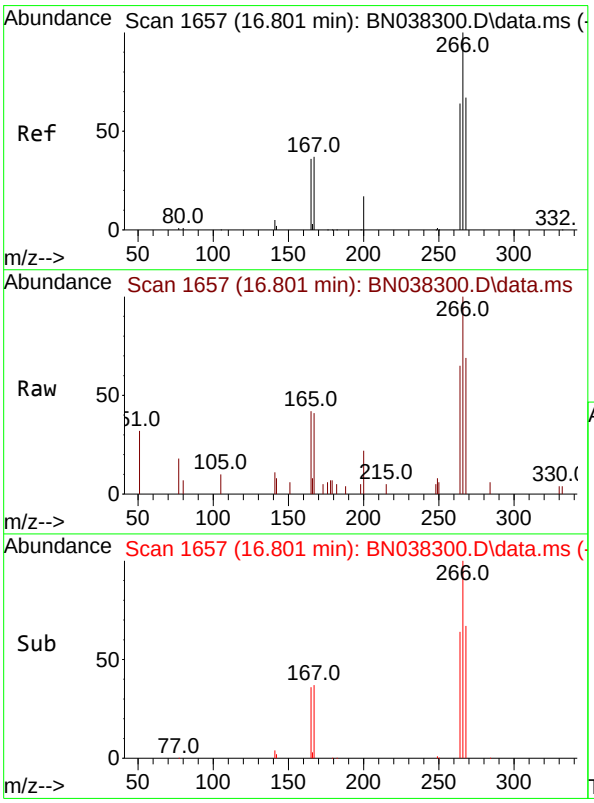
#23
Atrazine
Concen: 0.376 ng
RT: 16.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 2824

Ion	Ratio	Lower	Upper
200	100		
173	27.6	22.1	33.1
215	46.8	37.4	56.2

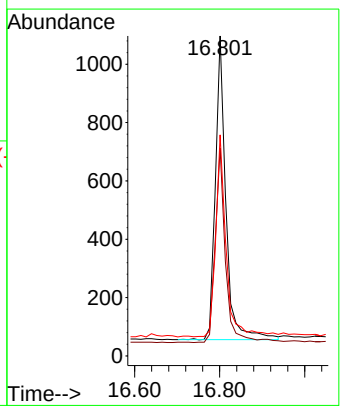


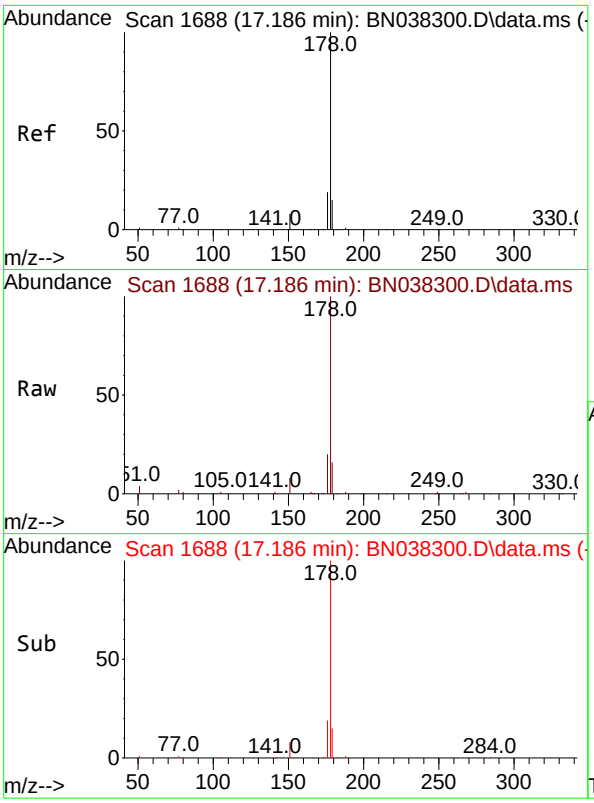


#24
Pentachlorophenol
Concen: 0.347 ng
RT: 16.801 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Tgt Ion:266 Resp: 1789

Ion	Ratio	Lower	Upper
266	100		
264	62.7	50.2	75.2
268	65.7	52.6	78.8



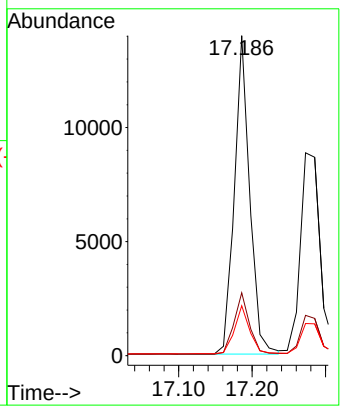


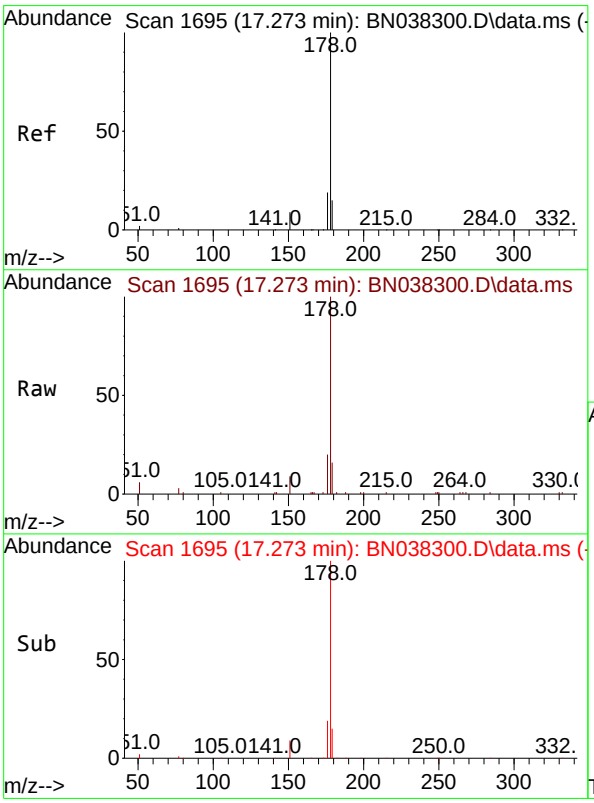
#25
Phenanthrene
Concen: 0.392 ng
RT: 17.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 20202

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.5	23.3
179	15.2	12.2	18.2

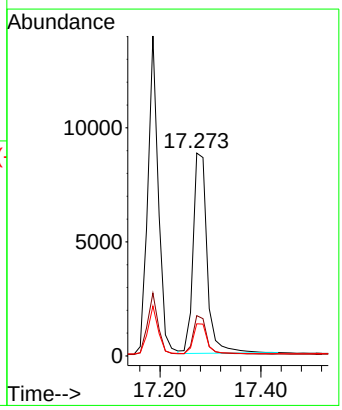


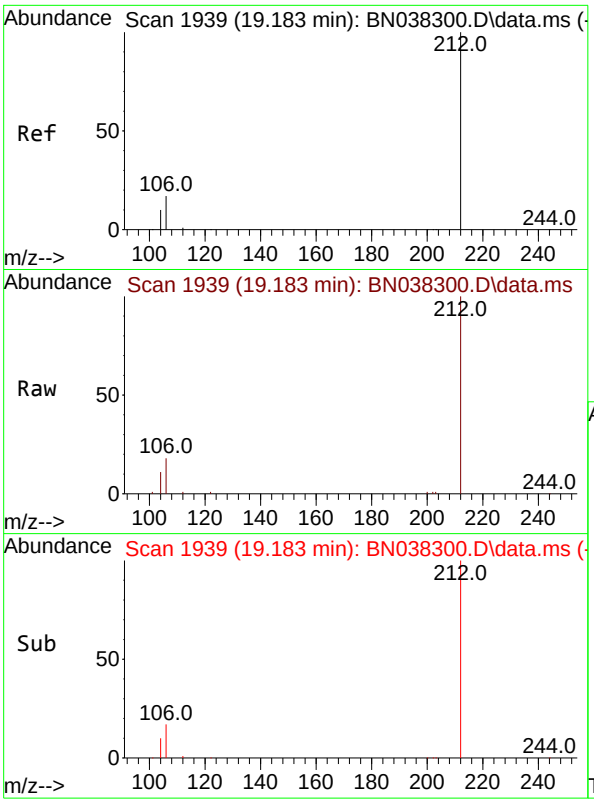


#26
Anthracene
Concen: 0.382 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Tgt Ion:178 Resp: 16986

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.1	22.7
179	15.0	12.0	18.0



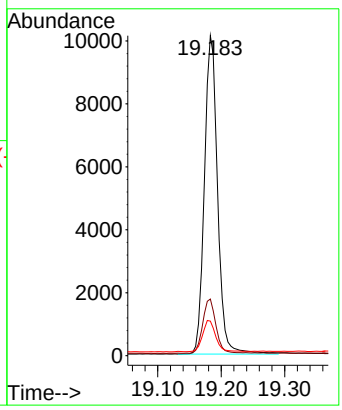


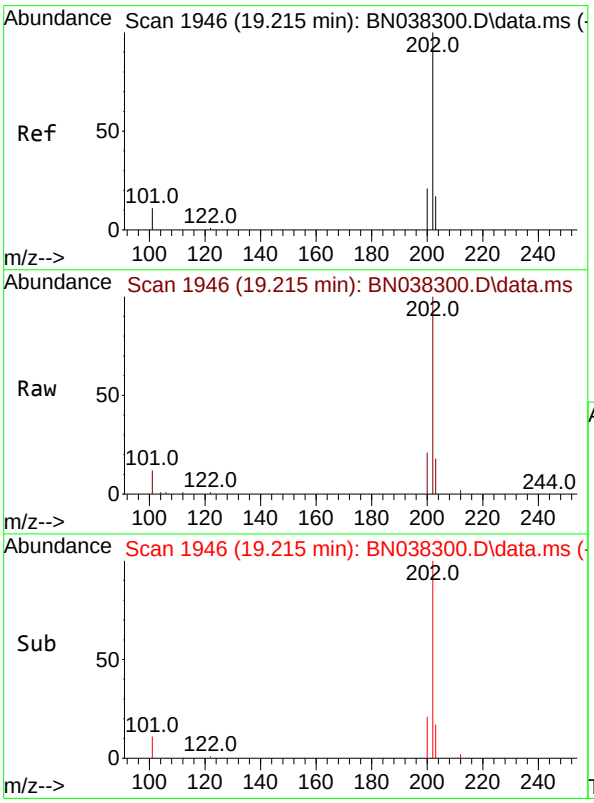
#27
Fluoranthene-d10
Concen: 0.398 ng
RT: 19.183 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 14593

Ion	Ratio	Lower	Upper
212	100		
106	17.1	13.7	20.5
104	9.8	7.8	11.8

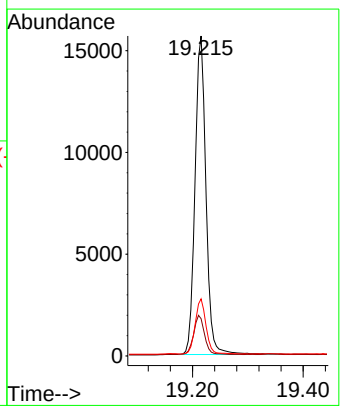


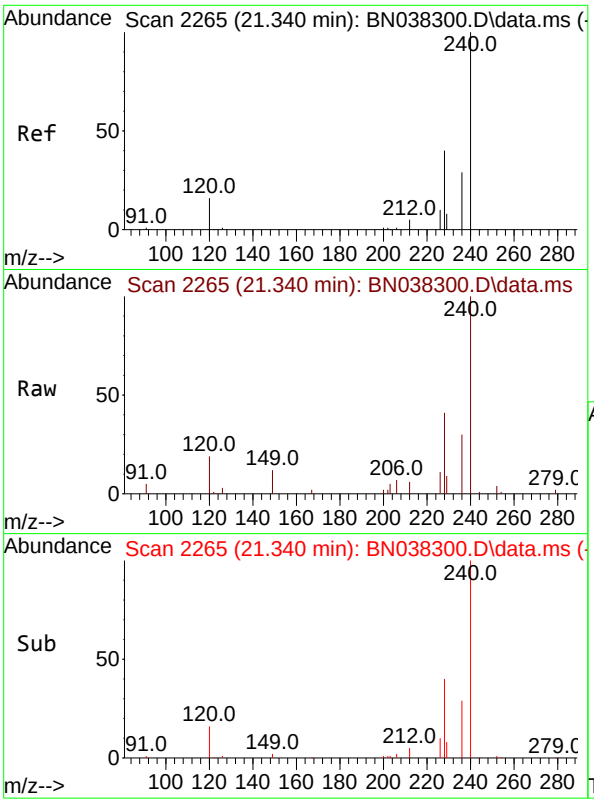


#28
Fluoranthene
Concen: 0.394 ng
RT: 19.215 min Scan# 1946
Delta R.T. -0.005 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Tgt Ion:202 Resp: 21635

Ion	Ratio	Lower	Upper
202	100		
101	12.0	9.6	14.4
203	16.9	13.5	20.3



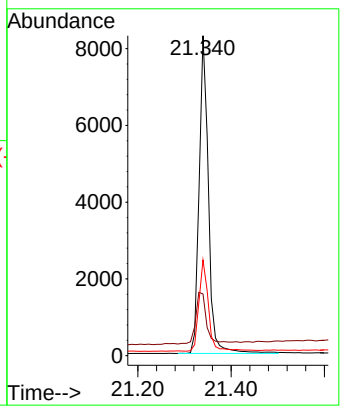


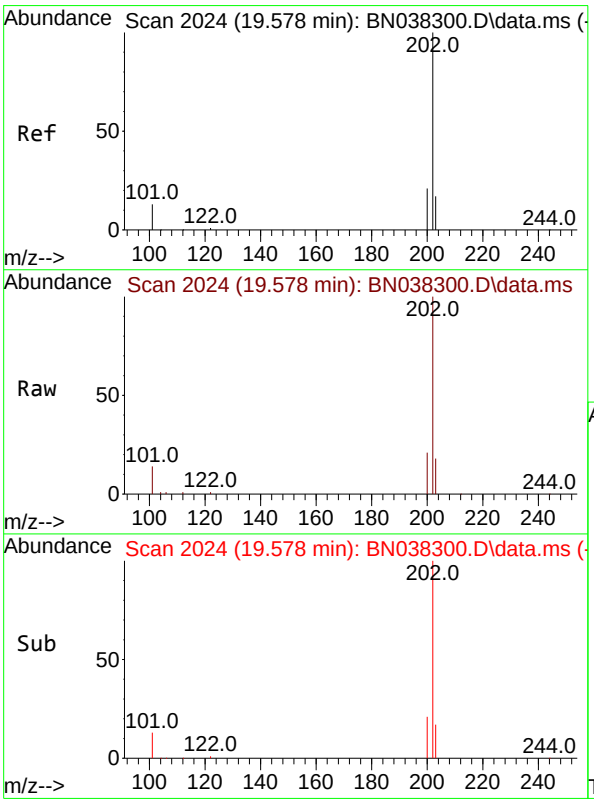
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.340 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 11516

Ion	Ratio	Lower	Upper
240	100		
120	19.3	15.4	23.2
236	29.9	23.9	35.9

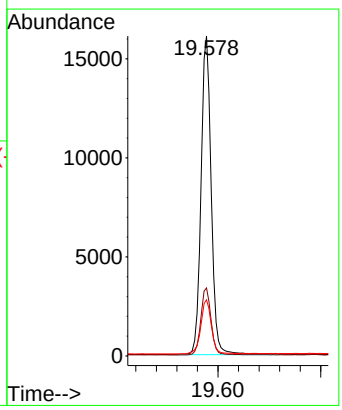


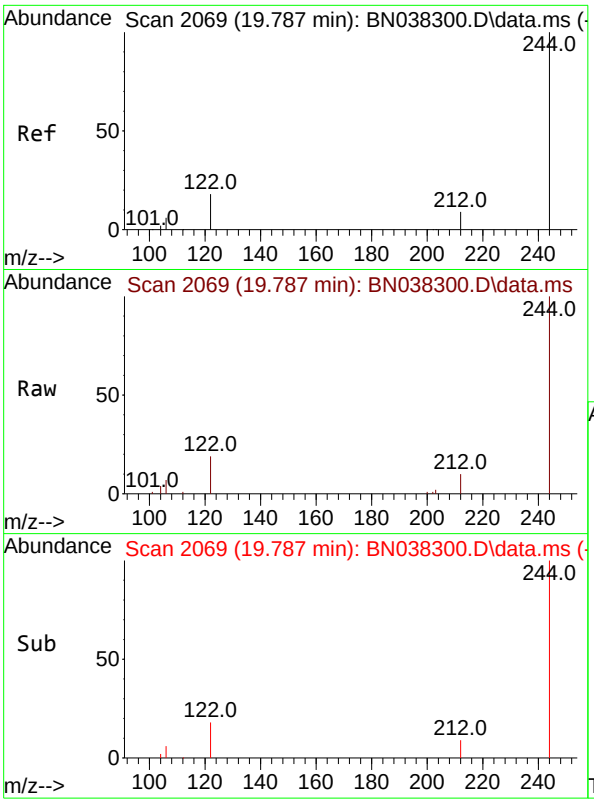


#30
Pyrene
Concen: 0.390 ng
RT: 19.578 min Scan# 2024
Delta R.T. -0.005 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Tgt Ion:202 Resp: 22115

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.7	14.2	21.2



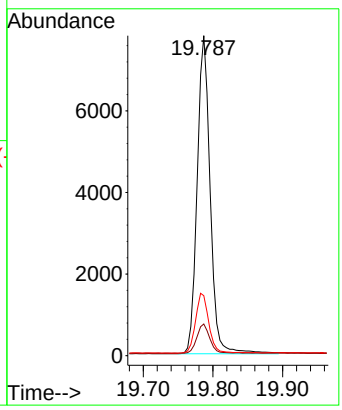


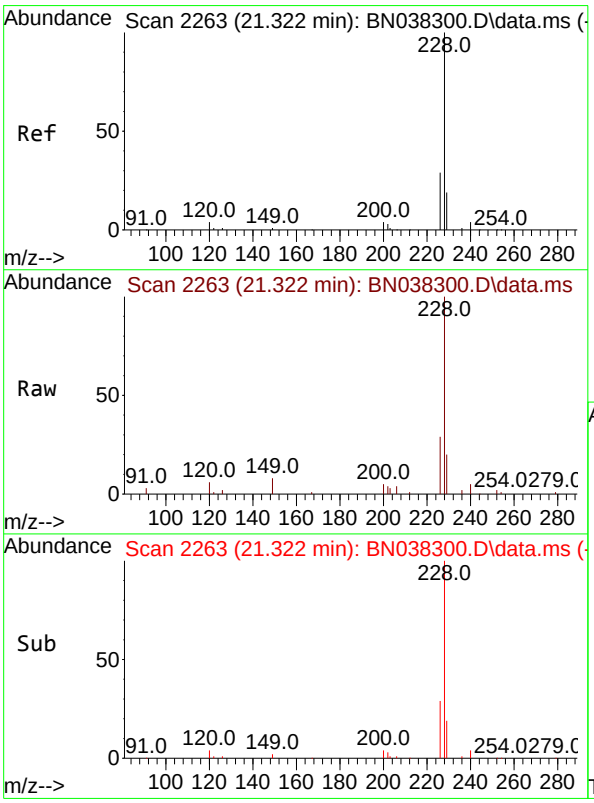
#31
Terphenyl-d14
Concen: 0.395 ng
RT: 19.787 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 10141

Ion	Ratio	Lower	Upper
244	100		
212	9.9	7.9	11.9
122	18.8	15.0	22.6

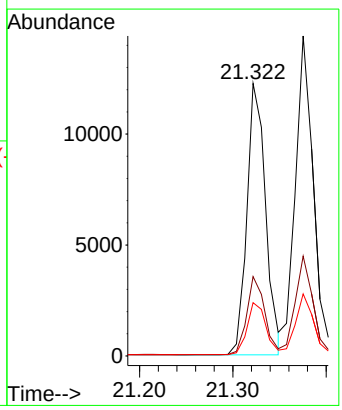


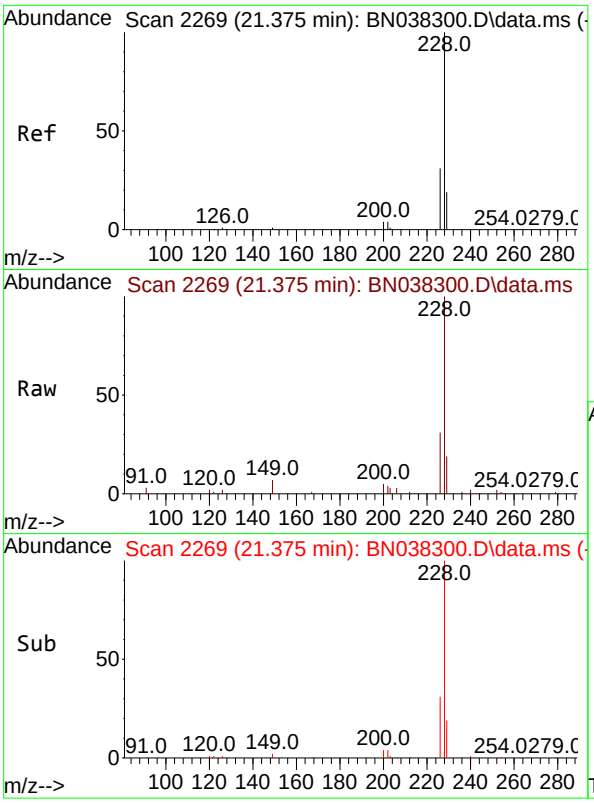


#32
Benzo(a)anthracene
Concen: 0.383 ng
RT: 21.322 min Scan# 2263
Delta R.T. -0.009 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Tgt Ion:228 Resp: 17031

Ion	Ratio	Lower	Upper
228	100		
226	29.1	23.3	34.9
229	19.6	15.7	23.5



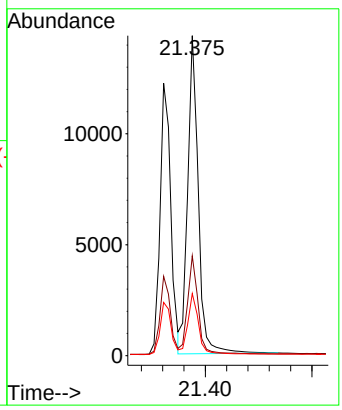


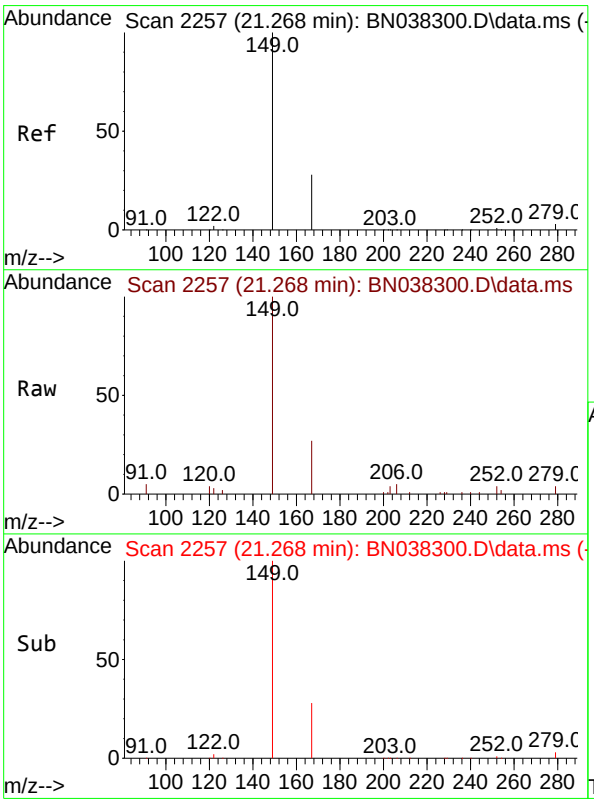
#33
Chrysene
Concen: 0.405 ng
RT: 21.375 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 19820

Ion	Ratio	Lower	Upper
228	100		
226	31.2	25.0	37.4
229	19.4	15.5	23.3

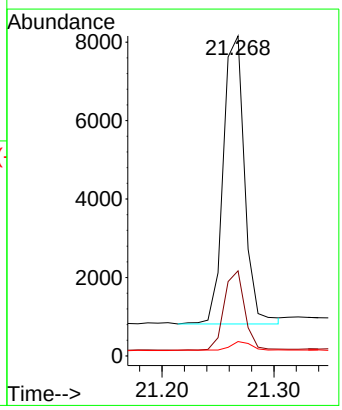


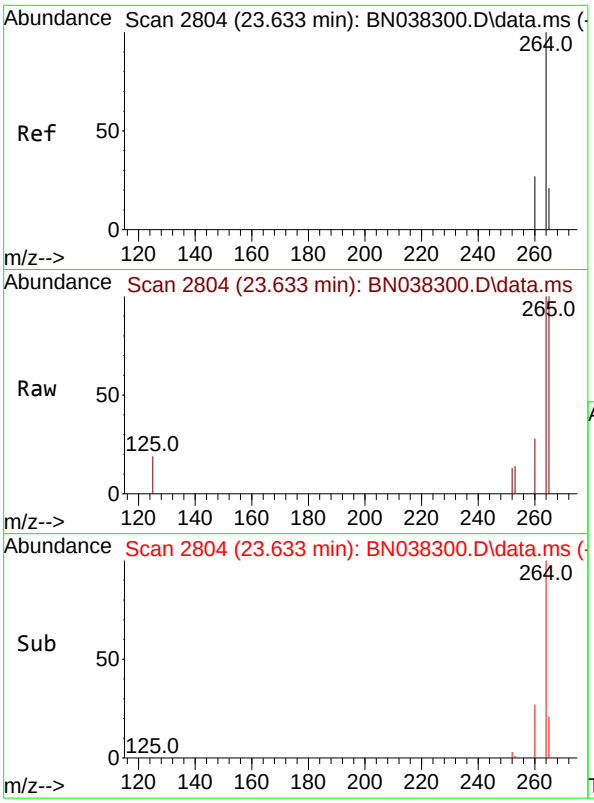


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.399 ng
RT: 21.268 min Scan# 2257
Delta R.T. 0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Tgt Ion:149 Resp: 9726

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.4	32.0
279	3.0	2.4	3.6



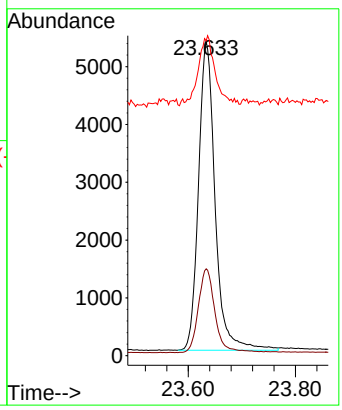


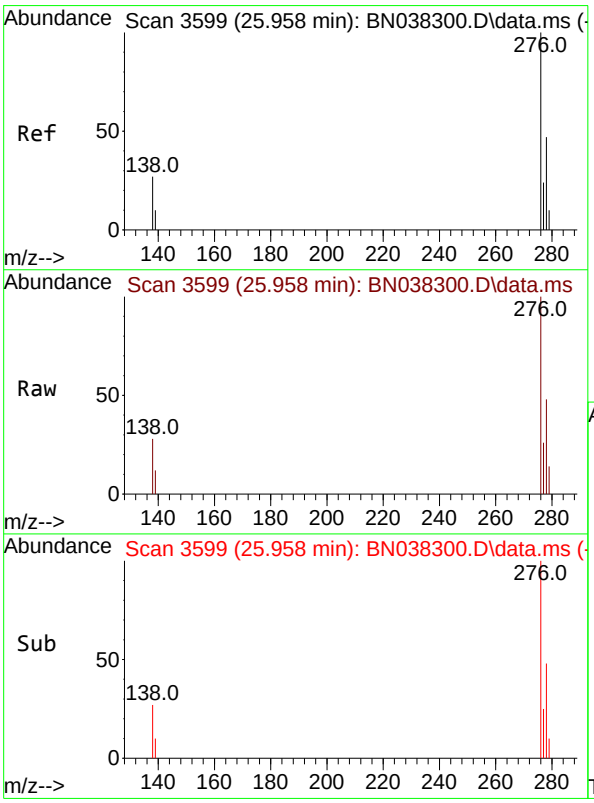
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.633 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 11519

Ion	Ratio	Lower	Upper
264	100		
260	27.7	22.2	33.2
265	100.2	80.2	120.2

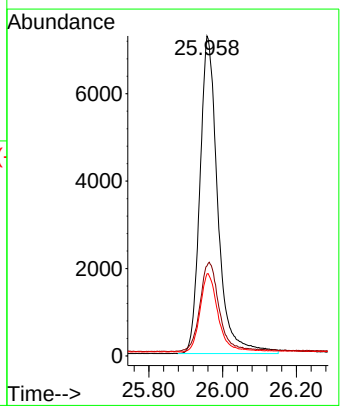


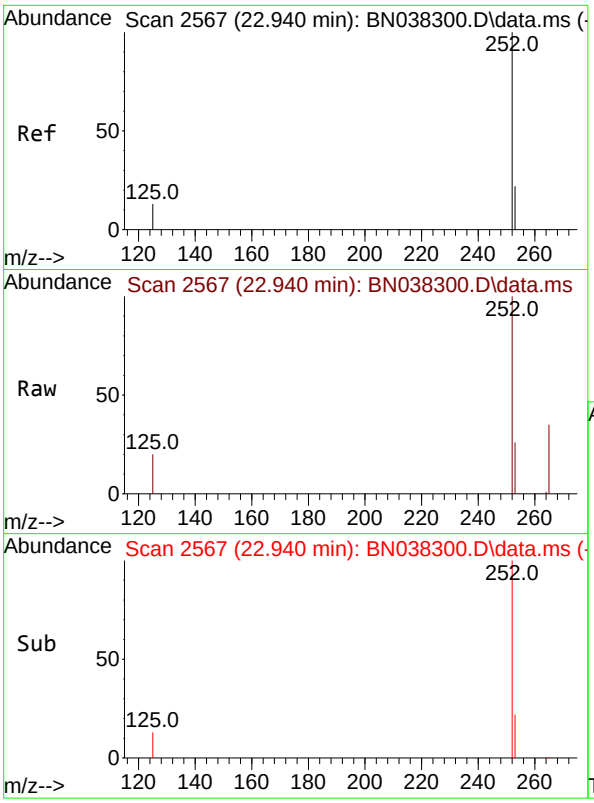


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.400 ng
RT: 25.958 min Scan# 3599
Delta R.T. -0.006 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Tgt Ion:276 Resp: 24439

Ion	Ratio	Lower	Upper
276	100		
138	29.5	23.6	35.4
277	24.6	19.7	29.5



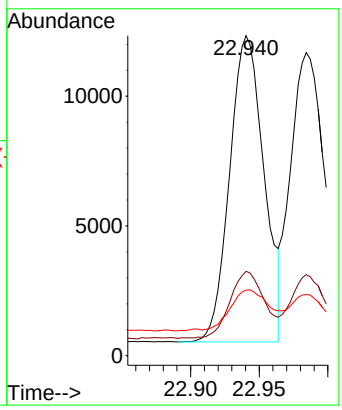


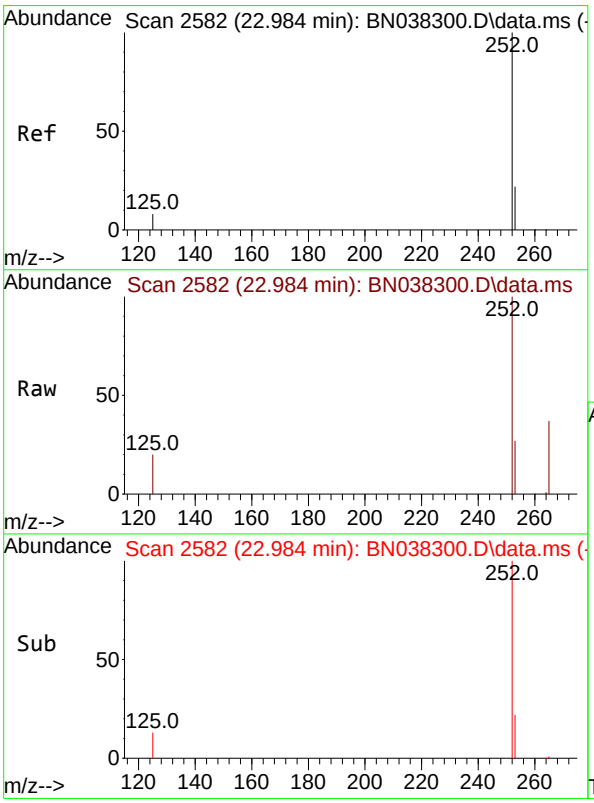
#37
Benzo(b)fluoranthene
Concen: 0.388 ng
RT: 22.940 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 20540

Ion	Ratio	Lower	Upper
252	100		
253	26.4	21.1	31.7
125	20.5	16.4	24.6

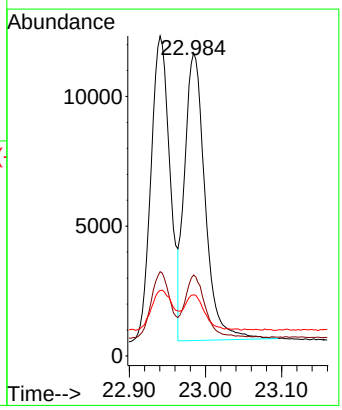


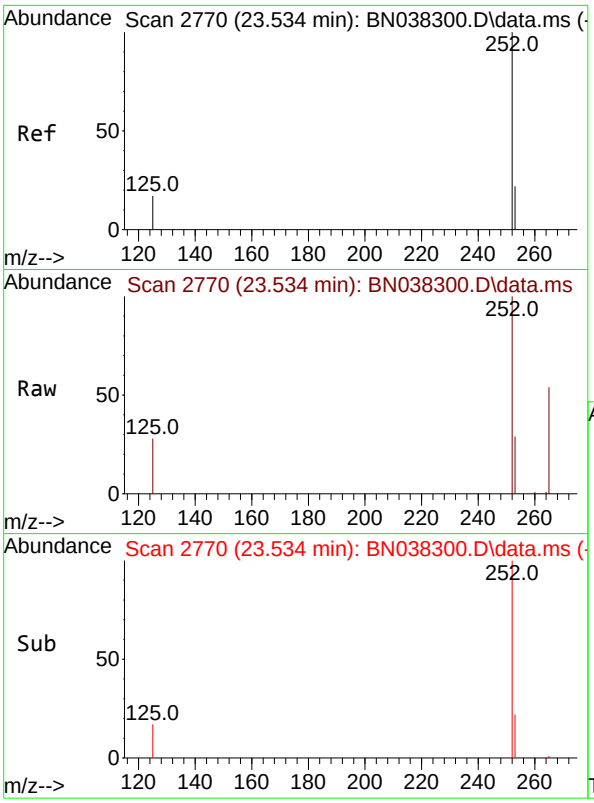


#38
Benzo(k)fluoranthene
Concen: 0.392 ng
RT: 22.984 min Scan# 2582
Delta R.T. -0.006 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Tgt Ion:252 Resp: 20691

Ion	Ratio	Lower	Upper
252	100		
253	26.7	21.4	32.0
125	20.2	16.2	24.2



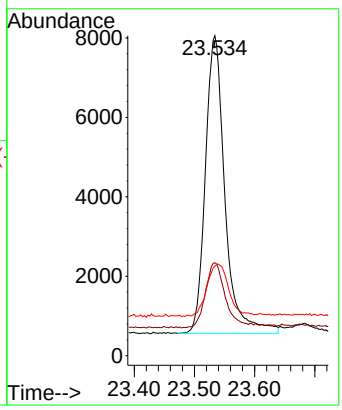


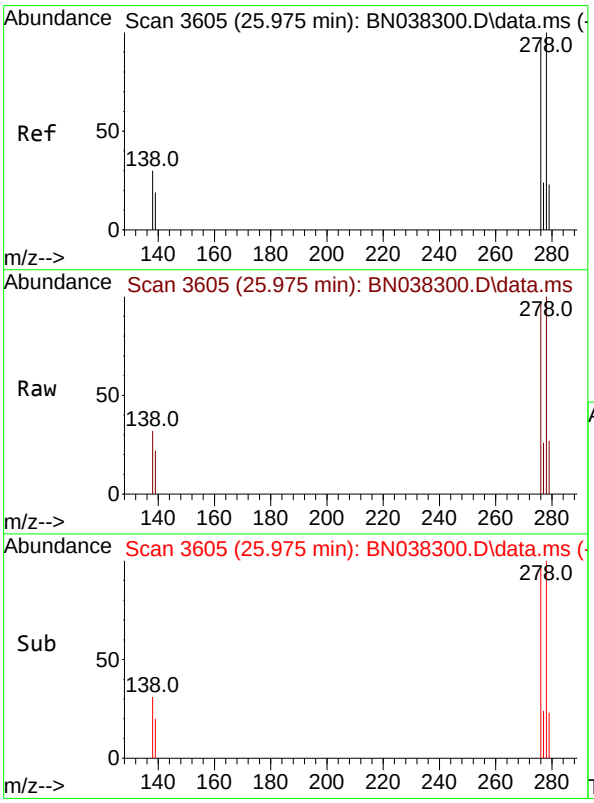
#39
Benzo(a)pyrene
Concen: 0.391 ng
RT: 23.534 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 16923

Ion	Ratio	Lower	Upper
252	100		
253	29.1	23.3	34.9
125	28.0	22.4	33.6

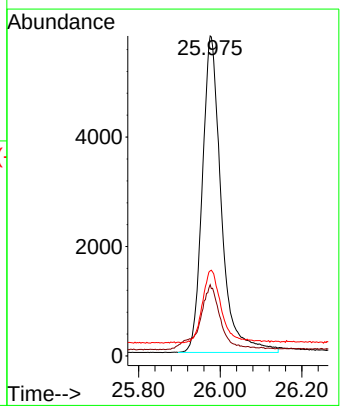


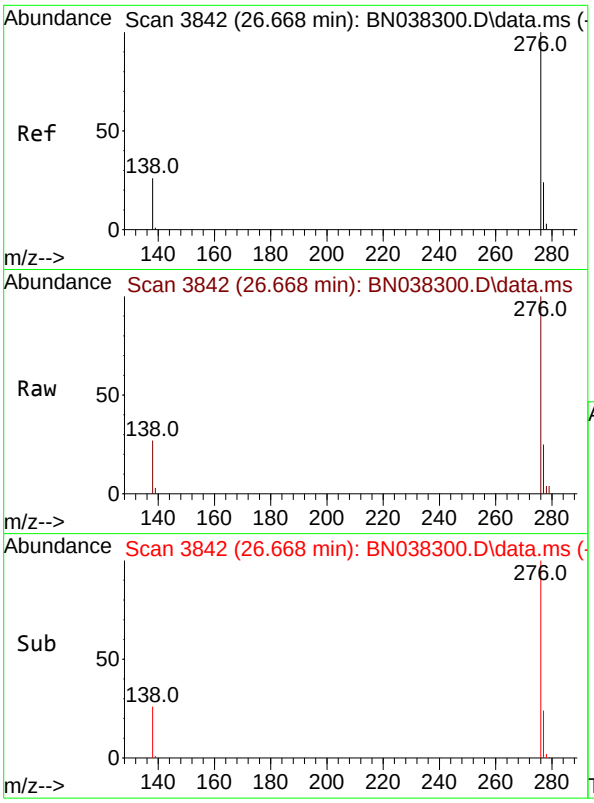


#40
Dibenzo(a,h)anthracene
Concen: 0.396 ng
RT: 25.975 min Scan# 3605
Delta R.T. -0.006 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Tgt Ion:278 Resp: 18646

Ion	Ratio	Lower	Upper
278	100		
139	22.3	17.8	26.8
279	26.6	21.3	31.9



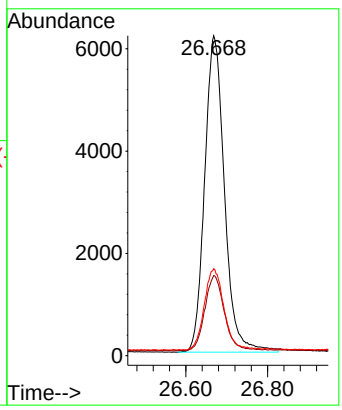


#41
Benzo(g,h,i)perylene
Concen: 0.396 ng
RT: 26.668 min Scan# 3
Delta R.T. -0.009 min
Lab File: BN038300.D
Acq: 10 Dec 2025 11:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 20868

Ion	Ratio	Lower	Upper
276	100		
277	25.0	20.0	30.0
138	27.2	21.8	32.6



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121025\
Data File : BN038301.D
Acq On : 10 Dec 2025 11:41
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Dec 10 13:59:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	6971	0.400	ng		0.00
7) Naphthalene-d8	10.530	136	18433	0.400	ng		0.00
13) Acenaphthene-d10	14.387	164	9355	0.400	ng		-0.01
19) Phenanthrene-d10	17.148	188	16598	0.400	ng		0.00
29) Chrysene-d12	21.340	240	12910	0.400	ng		0.00
35) Perylene-d12	23.633	264	12619	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	13677	0.788	ng		0.00
5) Phenol-d6	6.887	99	16146	0.782	ng		0.00
8) Nitrobenzene-d5	8.875	82	12246	0.788	ng		0.00
11) 2-Methylnaphthalene-d10	12.126	152	20420	0.785	ng		0.00
14) 2,4,6-Tribromophenol	15.895	330	3151	0.759	ng		0.00
15) 2-Fluorobiphenyl	13.008	172	34384	0.763	ng		0.00
27) Fluoranthene-d10	19.183	212	32647	0.795	ng		0.00
31) Terphenyl-d14	19.787	244	22718	0.789	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.196	88	6178	0.773	ng		98
3) n-Nitrosodimethylamine	3.507	42	7923	0.791	ng		99
6) bis(2-Chloroethyl)ether	7.147	93	16015	0.793	ng		98
9) Naphthalene	10.573	128	42584	0.782	ng		100
10) Hexachlorobutadiene	10.872	225	7618	0.787	ng	#	100
12) 2-Methylnaphthalene	12.197	142	27173	0.786	ng		99
16) Acenaphthylene	14.110	152	35839	0.780	ng		100
17) Acenaphthene	14.452	154	25275	0.790	ng		99
18) Fluorene	15.446	166	32463	0.788	ng		98
20) 4,6-Dinitro-2-methylph...	15.522	198	2122	0.777	ng	#	65
21) 4-Bromophenyl-phenylether	16.342	248	9669	0.785	ng		98
22) Hexachlorobenzene	16.453	284	11634	0.786	ng		99
23) Atrazine	16.615	200	6538	0.778	ng		97
24) Pentachlorophenol	16.801	266	4199	0.727	ng		99
25) Phenanthrene	17.186	178	44807	0.776	ng		100
26) Anthracene	17.273	178	39515	0.793	ng		99
28) Fluoranthene	19.215	202	48652	0.792	ng		99
30) Pyrene	19.578	202	49288	0.776	ng		100
32) Benzo(a)anthracene	21.322	228	38762	0.777	ng		99
33) Chrysene	21.375	228	44128	0.804	ng		100
34) Bis(2-ethylhexyl)phtha...	21.268	149	20109	0.735	ng		100
36) Indeno(1,2,3-cd)pyrene	25.960	276	53409	0.798	ng		100
37) Benzo(b)fluoranthene	22.940	252	44814	0.773	ng	#	93
38) Benzo(k)fluoranthene	22.987	252	45726	0.791	ng	#	93
39) Benzo(a)pyrene	23.531	252	36830	0.776	ng	#	88
40) Dibenzo(a,h)anthracene	25.978	278	40988	0.794	ng		97
41) Benzo(g,h,i)perylene	26.668	276	45587	0.790	ng		98

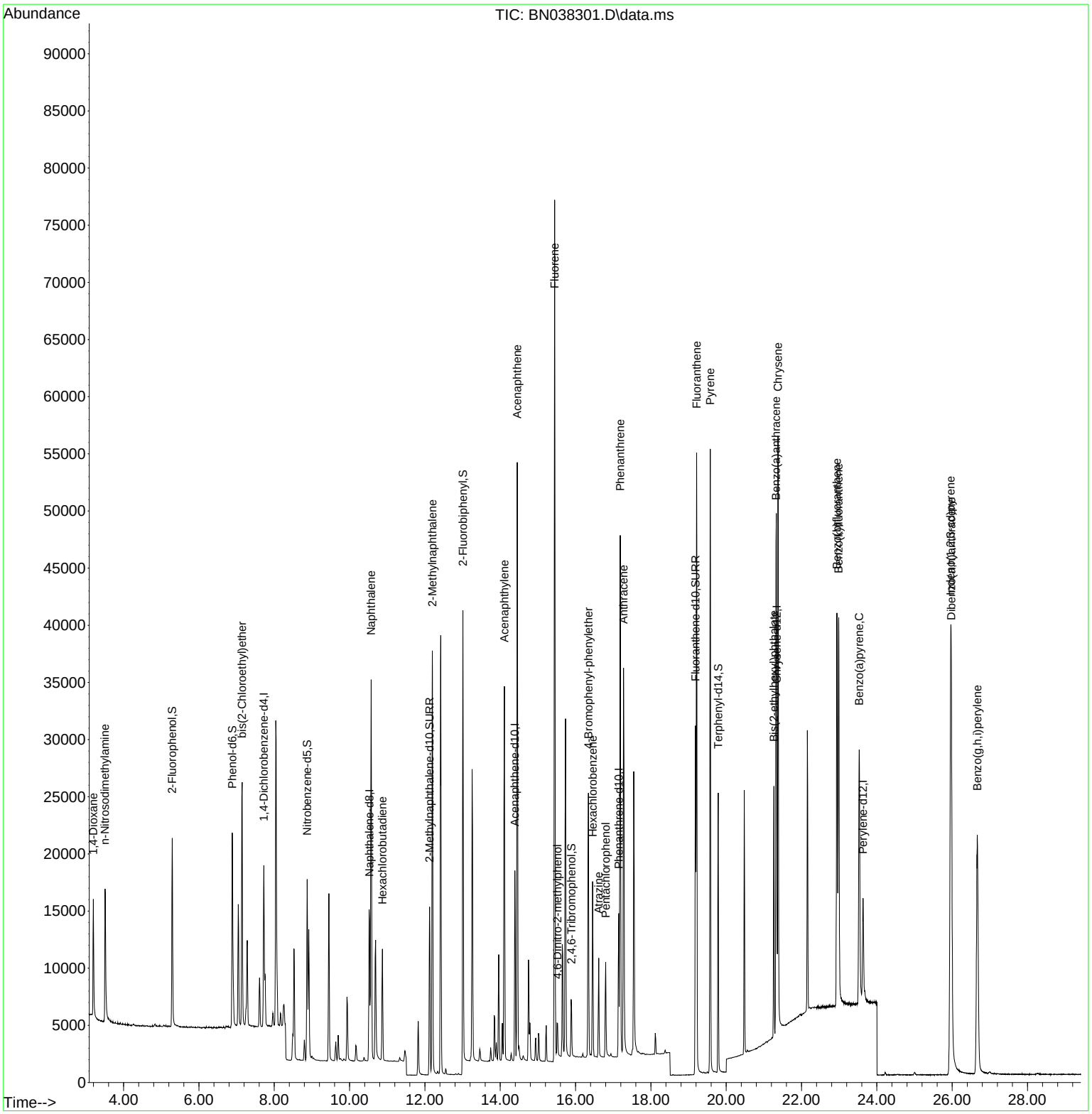
(#) = qualifier out of range (m) = manual integration (+) = signals summed

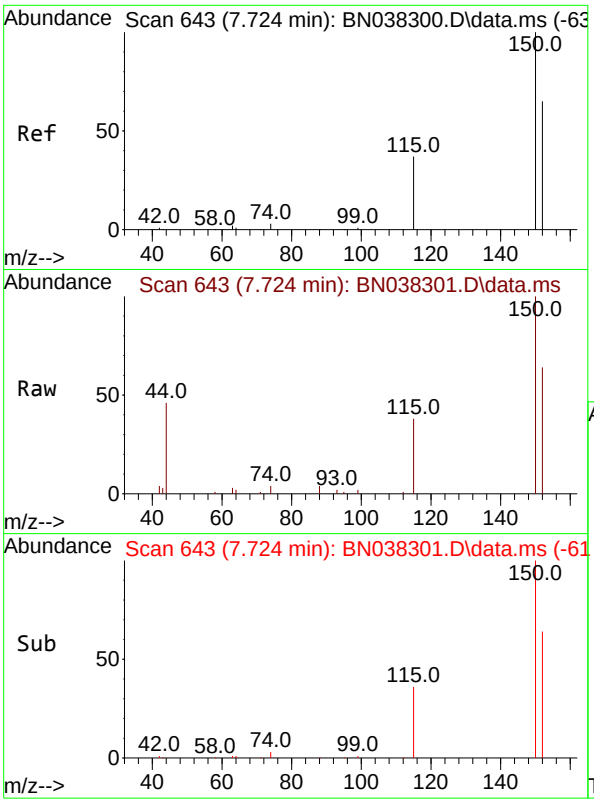
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121025\
Data File : BN038301.D
Acq On : 10 Dec 2025 11:41
Operator : RC/JU
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Dec 10 13:59:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration



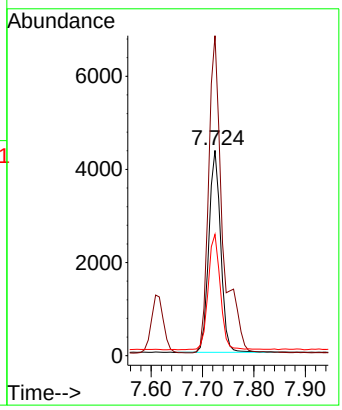


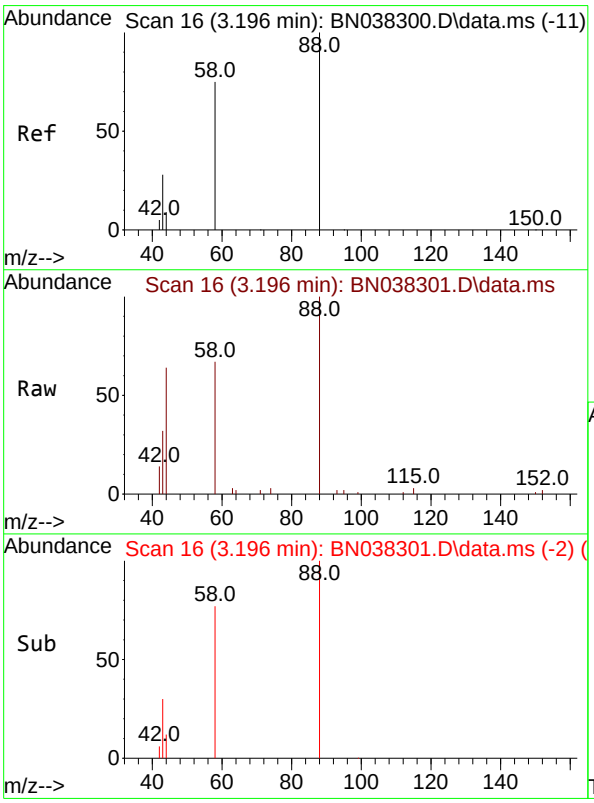
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 6971

Ion	Ratio	Lower	Upper
152	100		
150	155.9	122.4	183.6
115	59.1	47.3	70.9

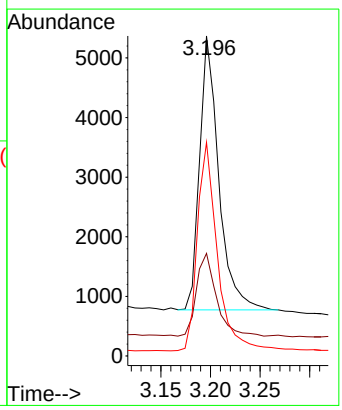


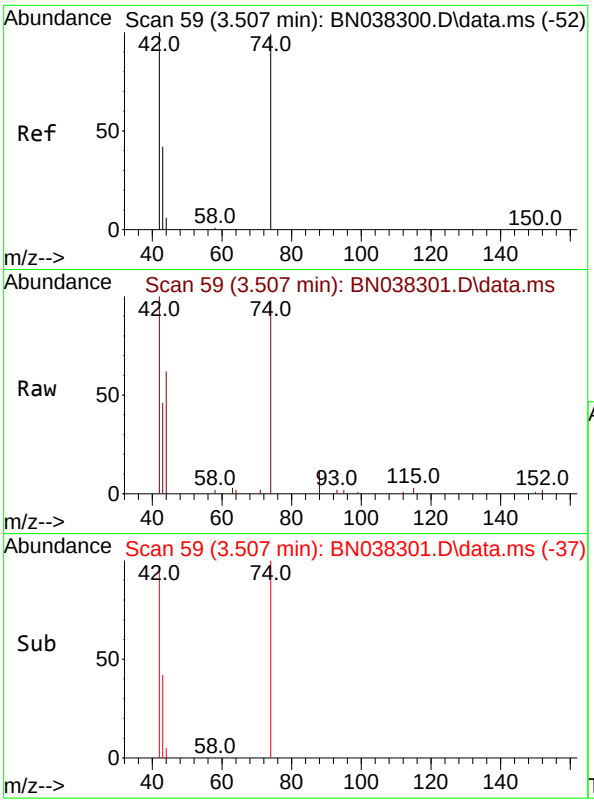


#2
1,4-Dioxane
Concen: 0.773 ng
RT: 3.196 min Scan# 16
Delta R.T. -0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Tgt Ion: 88 Resp: 6178

Ion	Ratio	Lower	Upper
88	100		
43	31.3	24.9	37.3
58	79.4	61.4	92.0



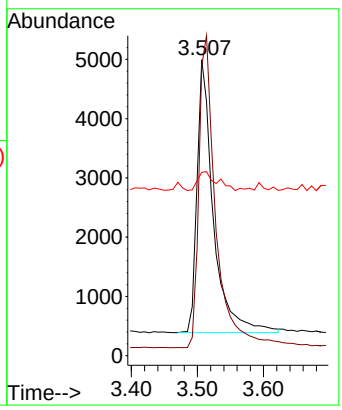


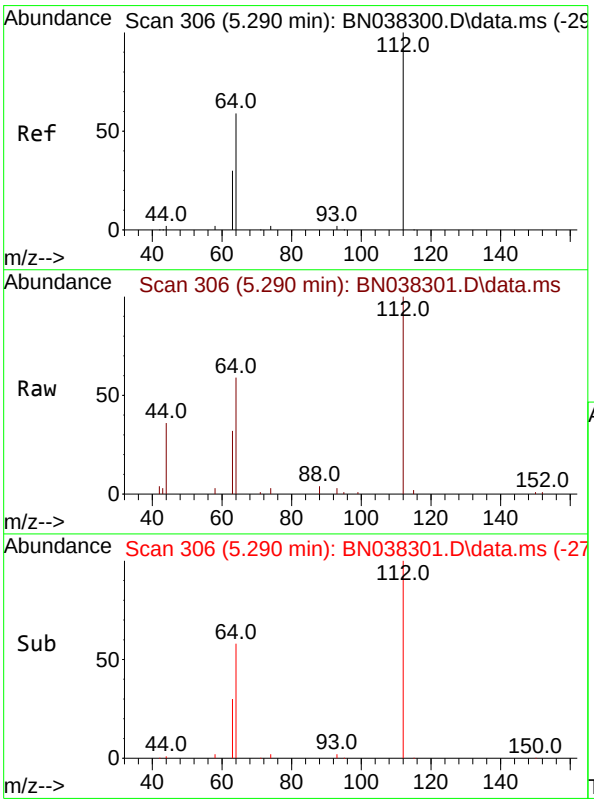
#3
n-Nitrosodimethylamine
Concen: 0.791 ng
RT: 3.507 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 7923

Ion	Ratio	Lower	Upper
42	100		
74	118.6	95.3	142.9
44	8.2	7.9	11.9

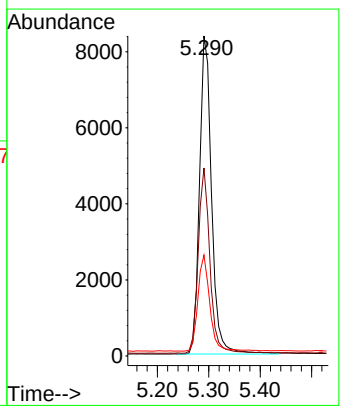


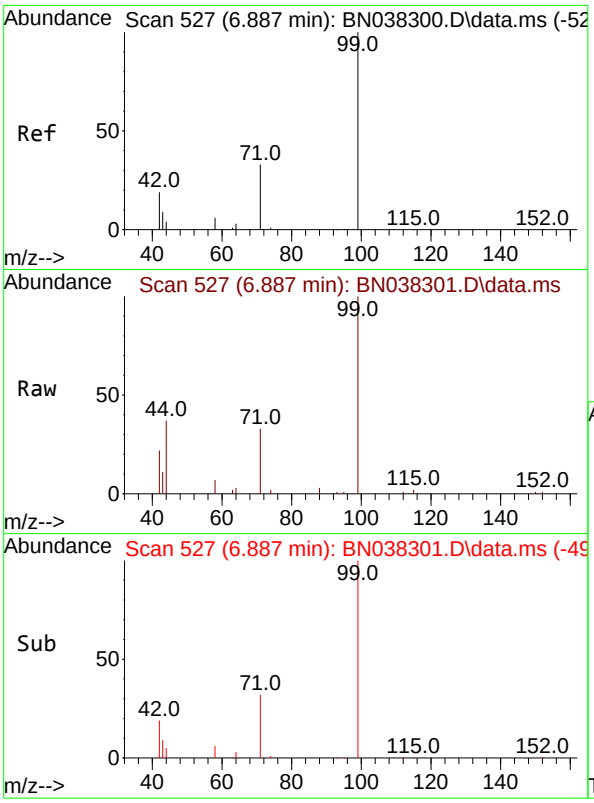


#4
2-Fluorophenol
Concen: 0.788 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Tgt Ion:112 Resp: 13677

Ion	Ratio	Lower	Upper
112	100		
64	56.4	44.4	66.6
63	29.7	23.4	35.0



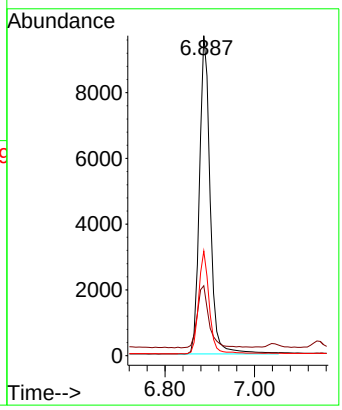


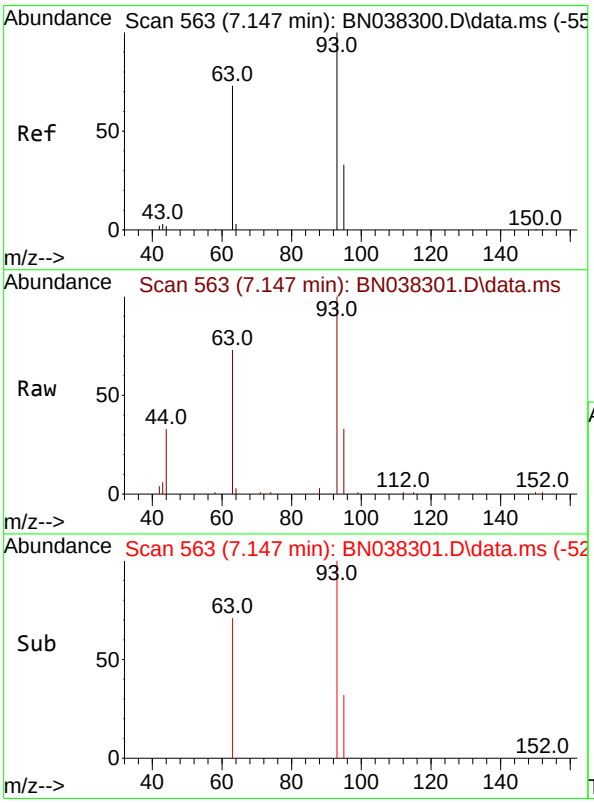
#5
Phenol-d6
Concen: 0.782 ng
RT: 6.887 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 16146

Ion	Ratio	Lower	Upper
99	100		
42	21.4	16.5	24.7
71	31.9	24.9	37.3

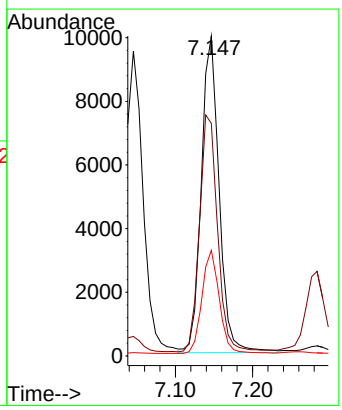


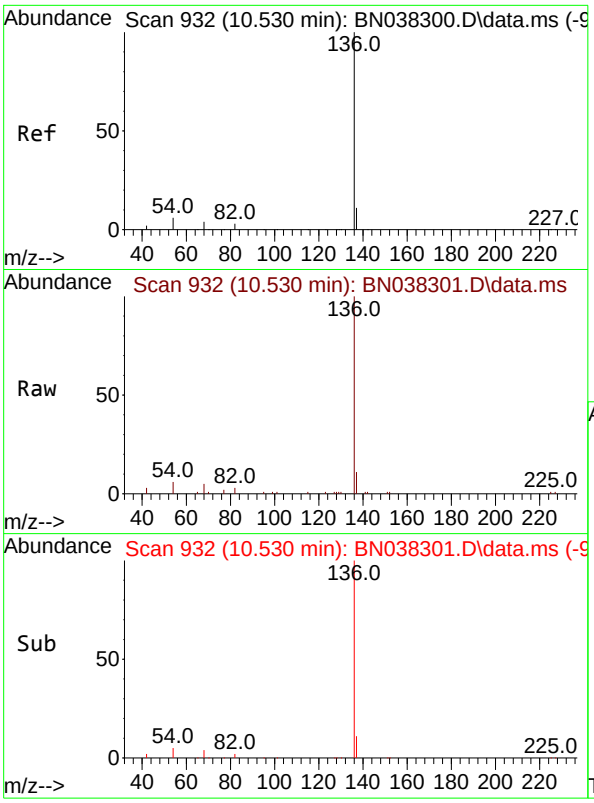


#6
bis(2-Chloroethyl)ether
Concen: 0.793 ng
RT: 7.147 min Scan# 563
Delta R.T. -0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Tgt Ion: 93 Resp: 16015

Ion	Ratio	Lower	Upper
93	100		
63	75.9	59.2	88.8
95	31.7	25.2	37.8



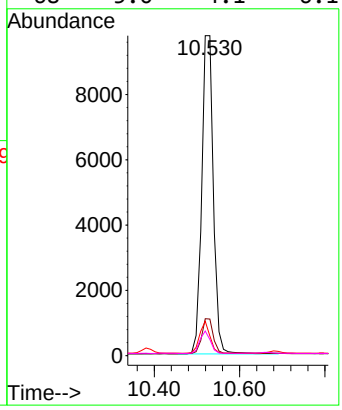


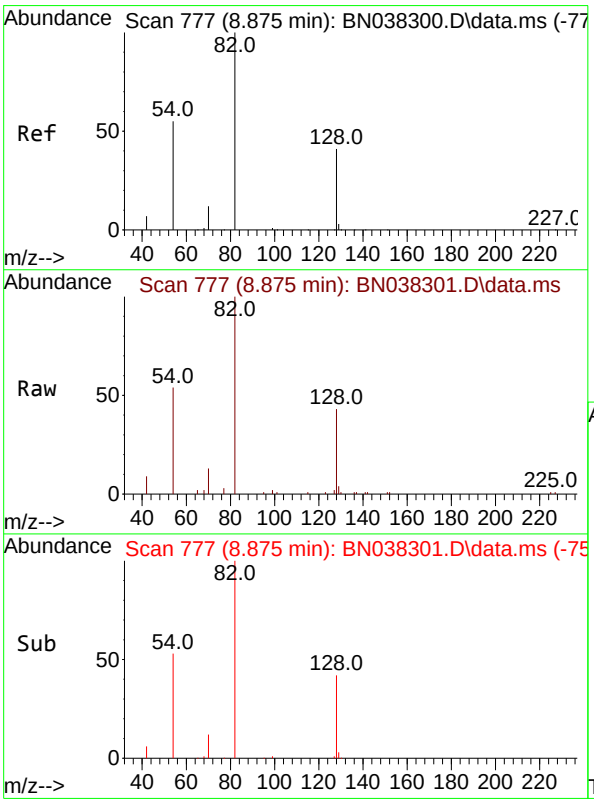
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.530 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 18433

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	6.2	5.2	7.8
68	5.0	4.1	6.1

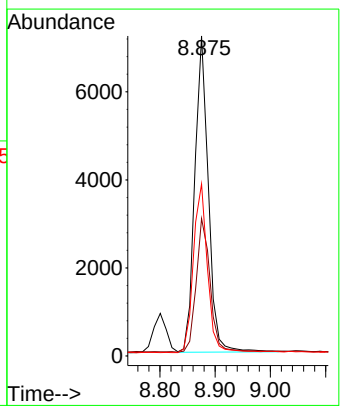


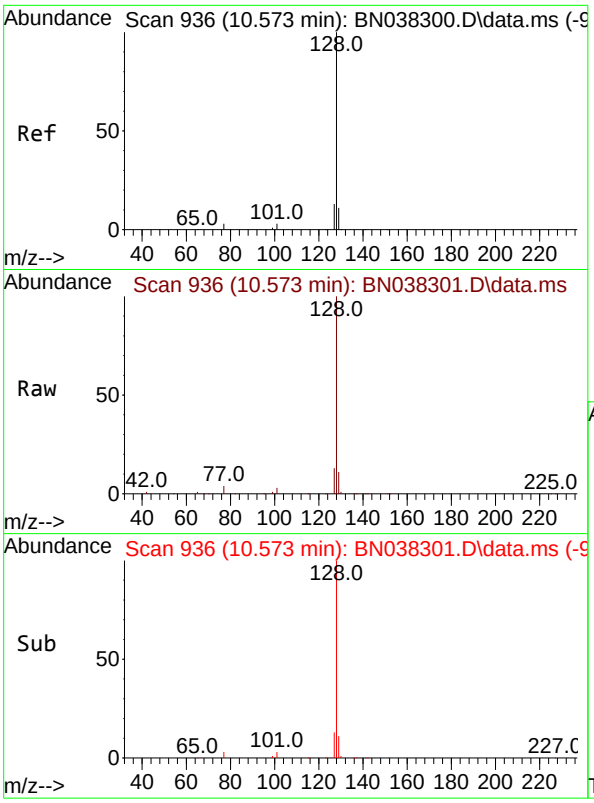


#8
Nitrobenzene-d5
Concen: 0.788 ng
RT: 8.875 min Scan# 777
Delta R.T. -0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Tgt Ion: 82 Resp: 12246

Ion	Ratio	Lower	Upper
82	100		
128	42.9	34.0	51.0
54	53.8	44.4	66.6



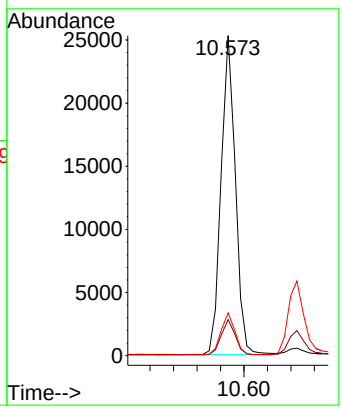


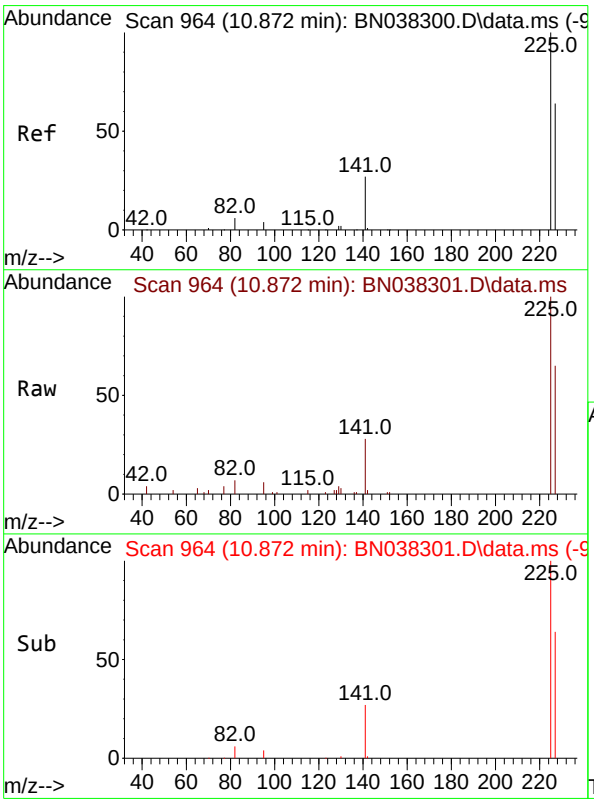
#9
Naphthalene
Concen: 0.782 ng
RT: 10.573 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 42584

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.1	13.7
127	13.4	10.9	16.3

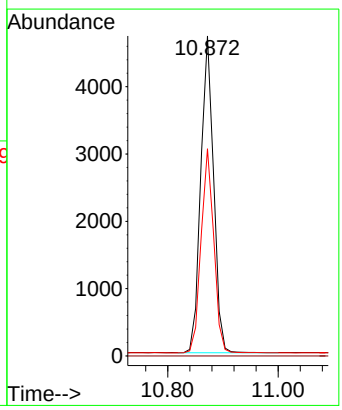


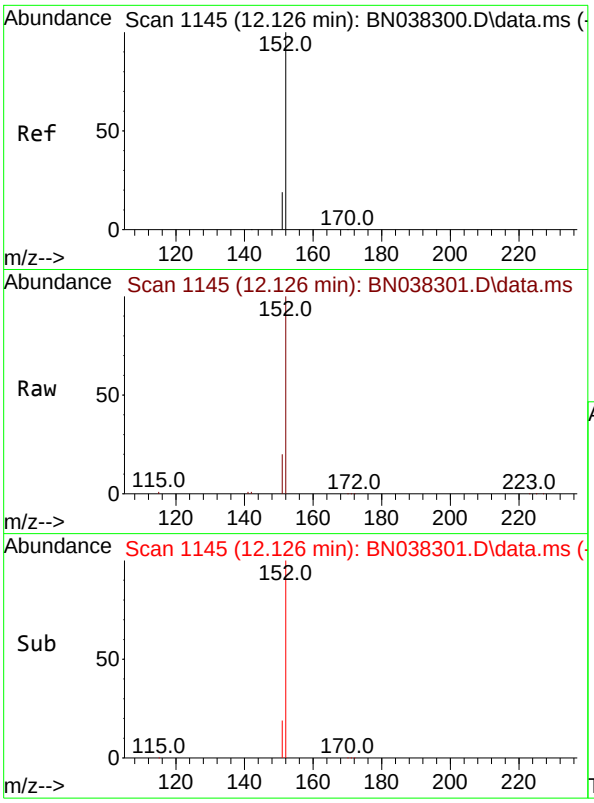


#10
Hexachlorobutadiene
Concen: 0.787 ng
RT: 10.872 min Scan# 964
Delta R.T. 0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Tgt Ion:225 Resp: 7618

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	51.2	76.8



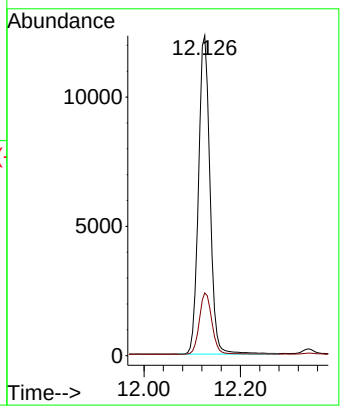


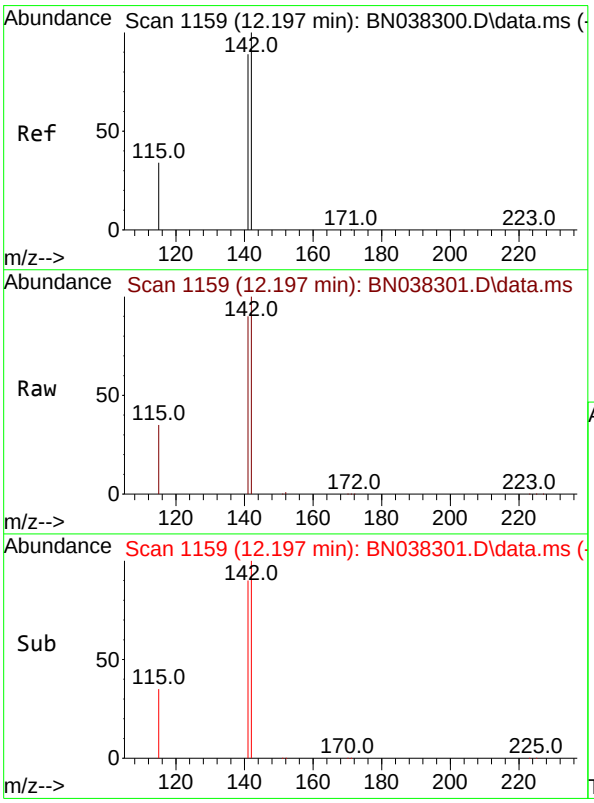
#11
2-Methylnaphthalene-d10
Concen: 0.785 ng
RT: 12.126 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 20420

Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6

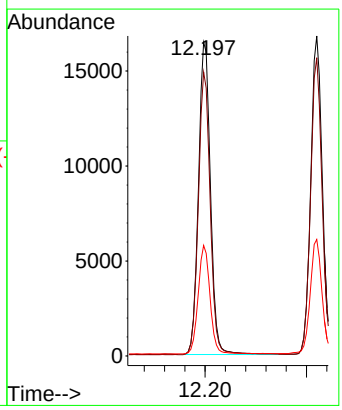


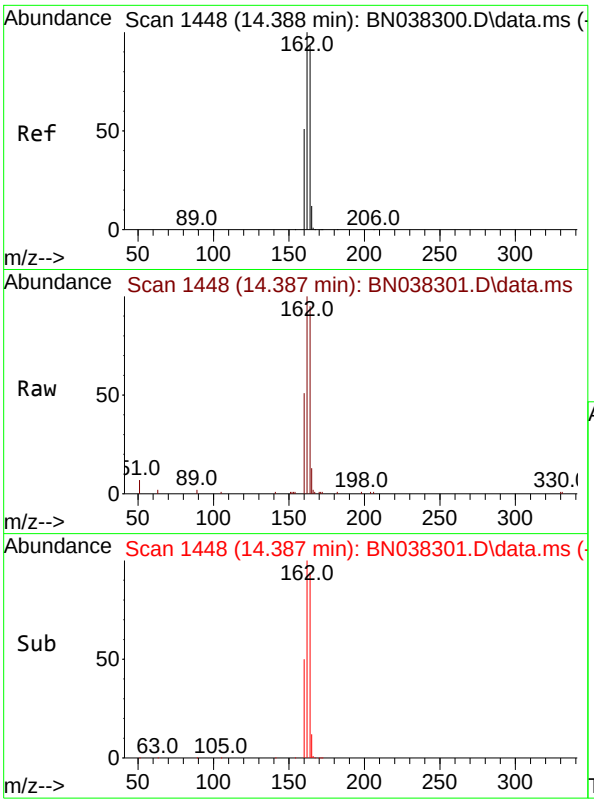


#12
2-Methylnaphthalene
Concen: 0.786 ng
RT: 12.197 min Scan# 1159
Delta R.T. -0.005 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Tgt Ion:142 Resp: 27173

Ion	Ratio	Lower	Upper
142	100		
141	90.4	71.4	107.2
115	35.2	28.4	42.6



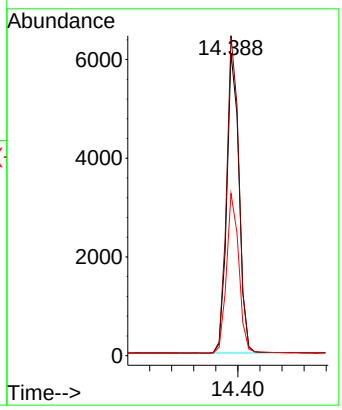


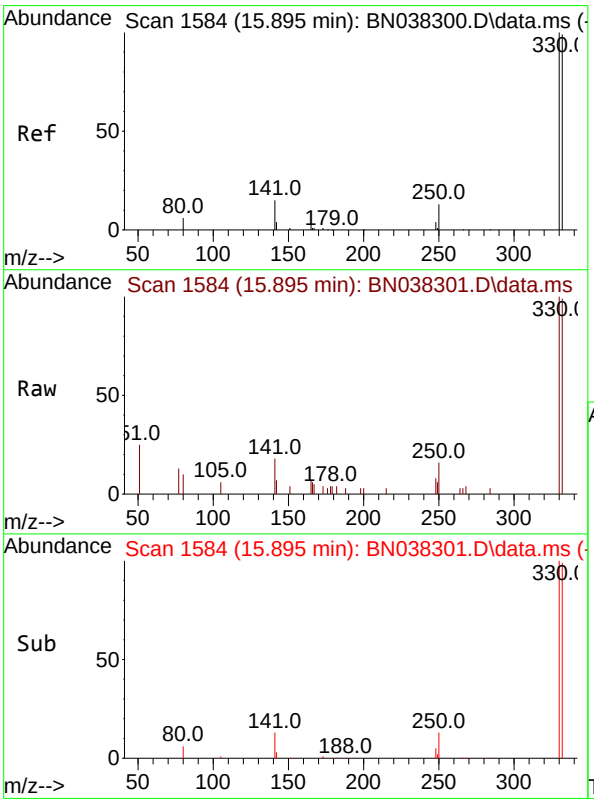
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.387 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 9355

Ion	Ratio	Lower	Upper
164	100		
162	105.8	86.2	129.4
160	53.6	44.6	67.0

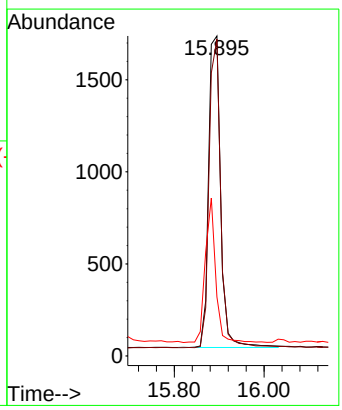


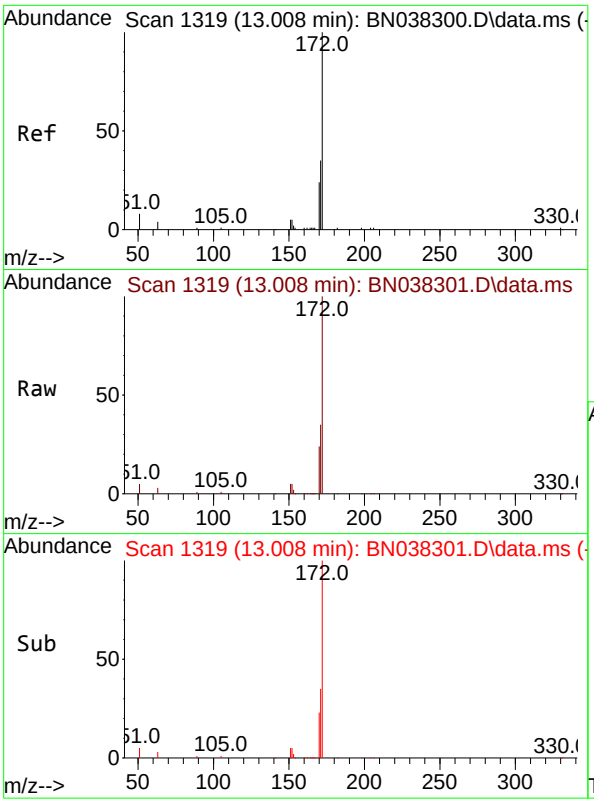


#14
2,4,6-Tribromophenol
Concen: 0.759 ng
RT: 15.895 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Tgt Ion:330 Resp: 3151

Ion	Ratio	Lower	Upper
330	100		
332	95.0	75.8	113.6
141	39.9	31.8	47.8



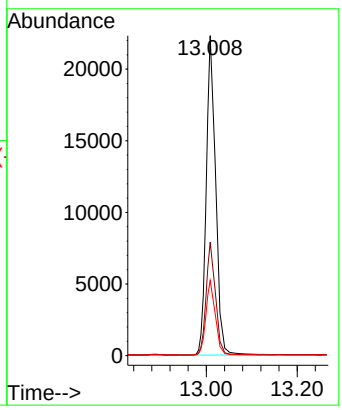


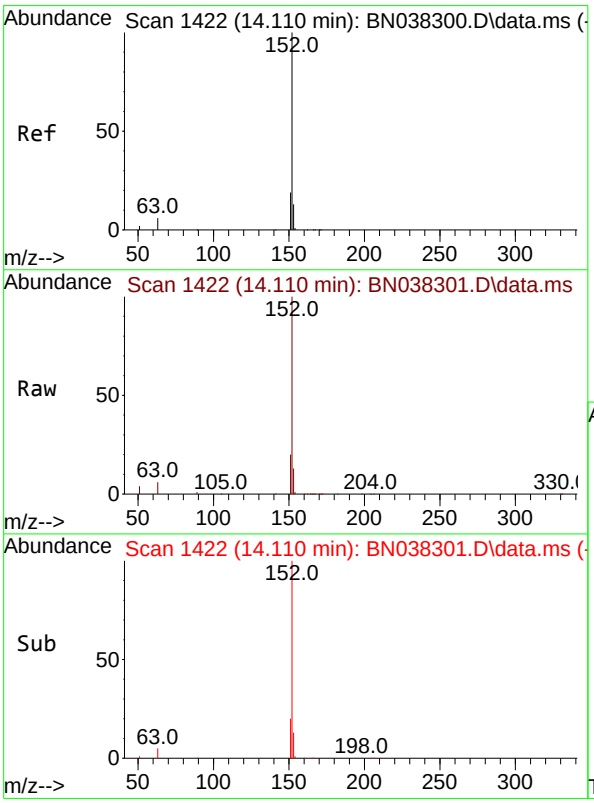
#15
2-Fluorobiphenyl
Concen: 0.763 ng
RT: 13.008 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 34384

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	42.8
170	23.5	19.3	28.9

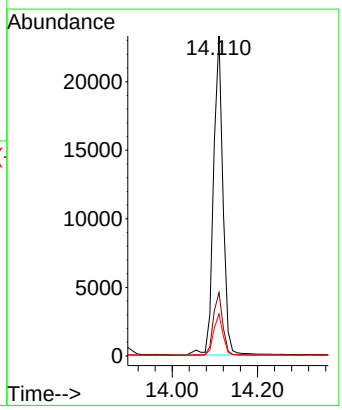


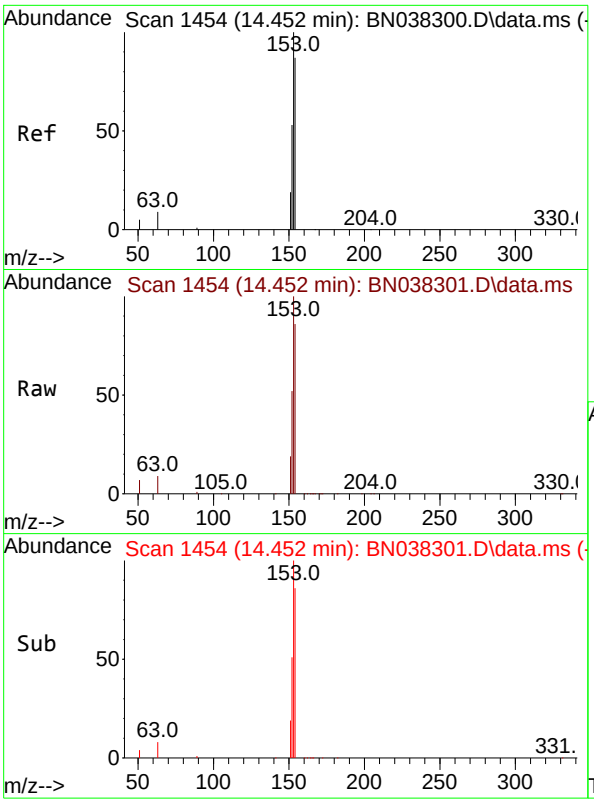


#16
Acenaphthylene
Concen: 0.780 ng
RT: 14.110 min Scan# 1422
Delta R.T. -0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Tgt Ion:152 Resp: 35839

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.4	23.2
153	12.9	10.2	15.4



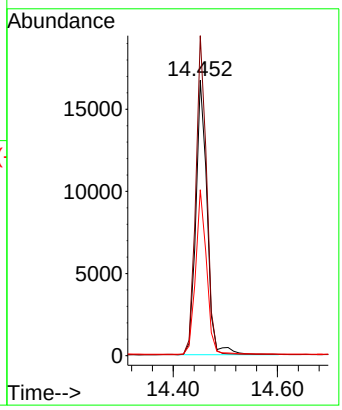


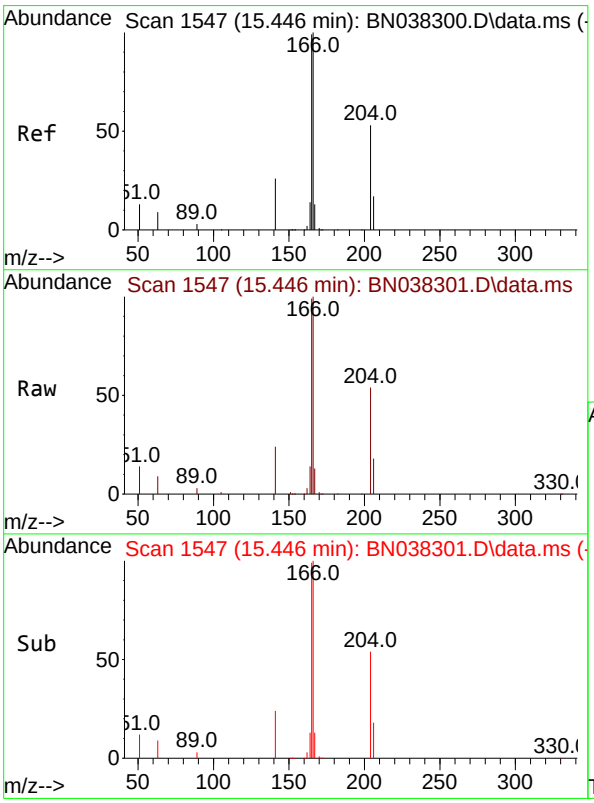
#17
Acenaphthene
Concen: 0.790 ng
RT: 14.452 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 25275

Ion	Ratio	Lower	Upper
154	100		
153	111.7	89.8	134.8
152	58.2	47.5	71.3

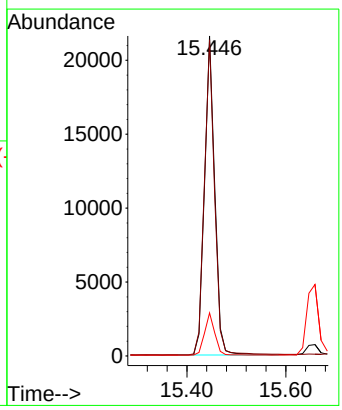


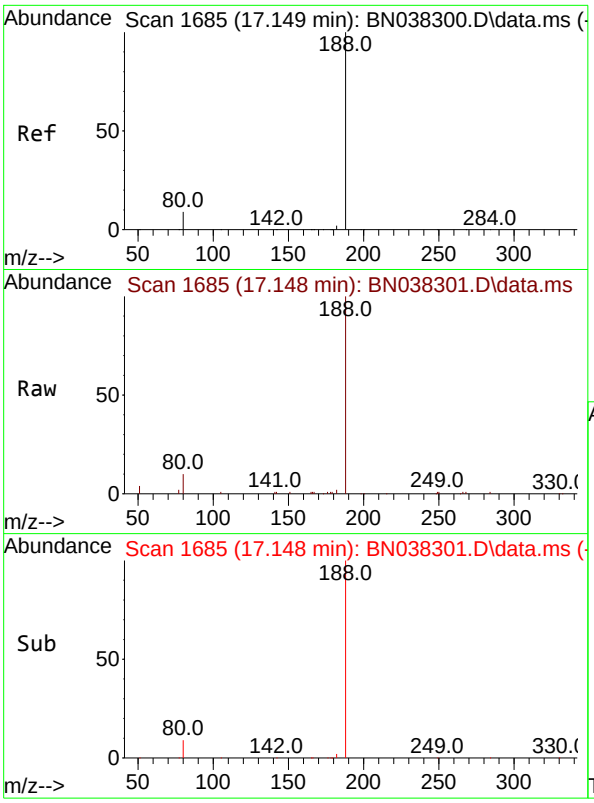


#18
Fluorene
Concen: 0.788 ng
RT: 15.446 min Scan# 1547
Delta R.T. -0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Tgt Ion:166 Resp: 32463

Ion	Ratio	Lower	Upper
166	100		
165	98.3	80.2	120.4
167	13.2	10.6	16.0



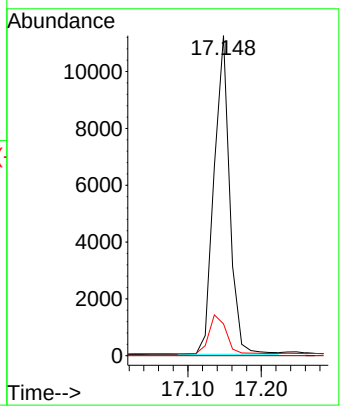


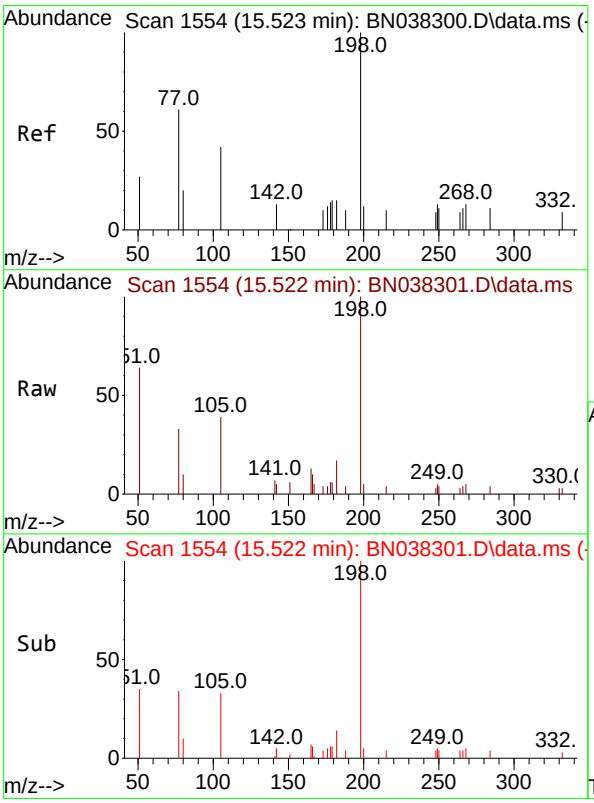
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.148 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 16598

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.9	7.4	11.0

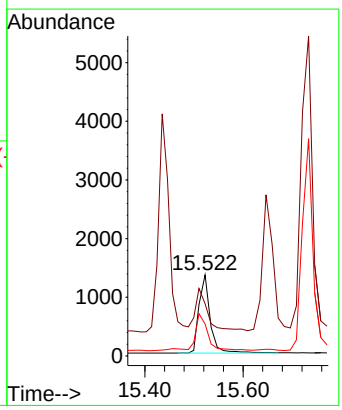


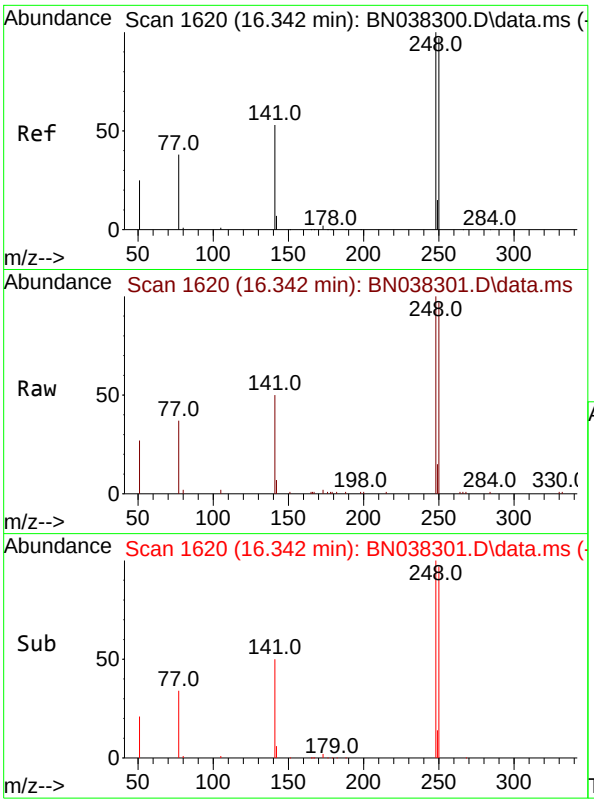


#20
4,6-Dinitro-2-methylphenol
Concen: 0.777 ng
RT: 15.522 min Scan# 1554
Delta R.T. 0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Tgt Ion:198 Resp: 2122

Ion	Ratio	Lower	Upper
198	100		
51	64.3	86.3	129.5#
105	39.4	45.3	67.9#



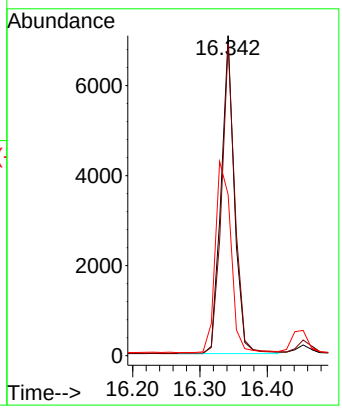


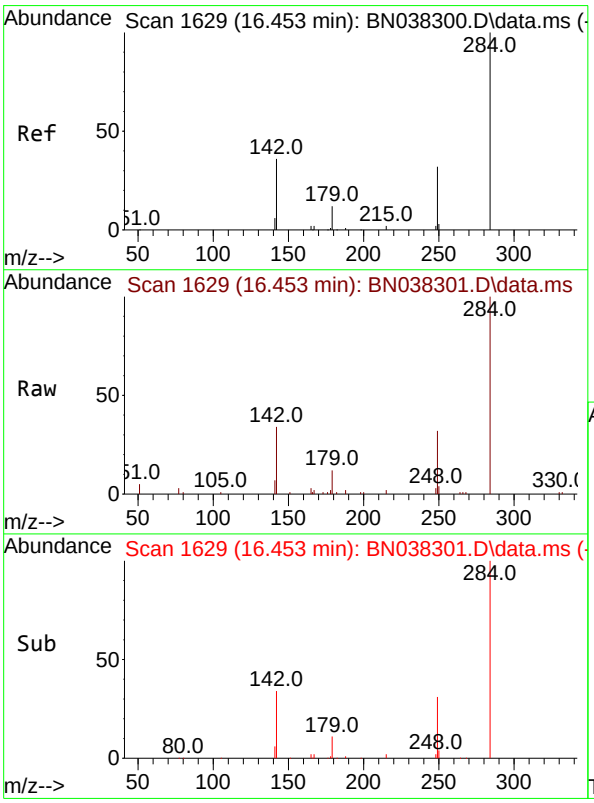
#21
4-Bromophenyl-phenylether
Concen: 0.785 ng
RT: 16.342 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 9669

Ion	Ratio	Lower	Upper
248	100		
250	97.4	78.2	117.2
141	50.4	43.7	65.5

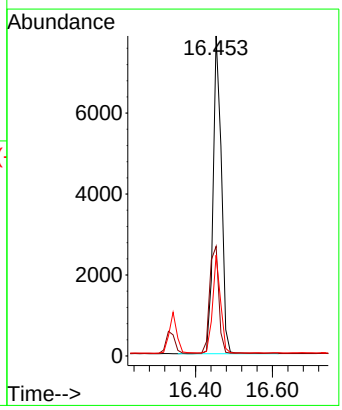


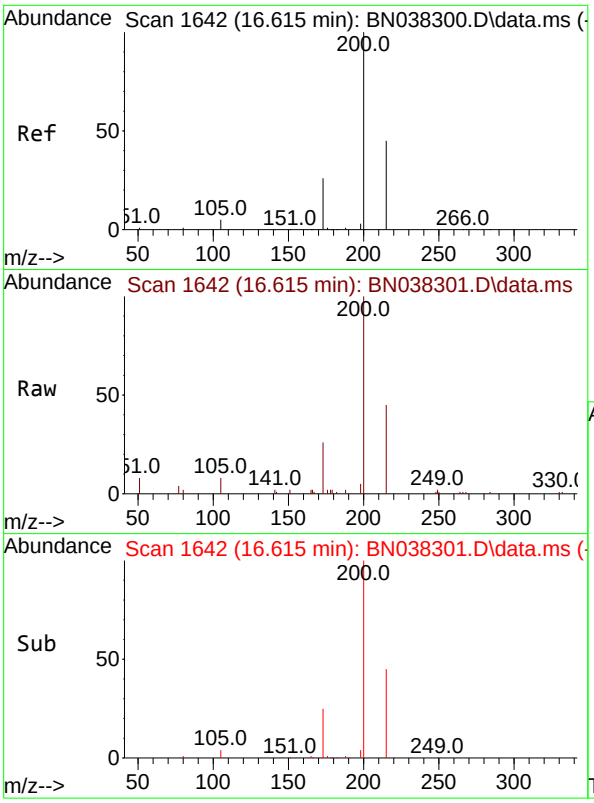


#22
Hexachlorobenzene
Concen: 0.786 ng
RT: 16.453 min Scan# 1629
Delta R.T. -0.012 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Tgt Ion:284 Resp: 11634

Ion	Ratio	Lower	Upper
284	100		
142	37.3	29.5	44.3
249	29.4	23.7	35.5



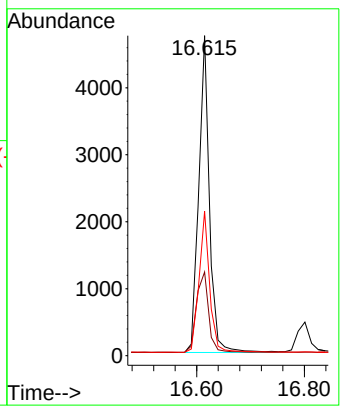


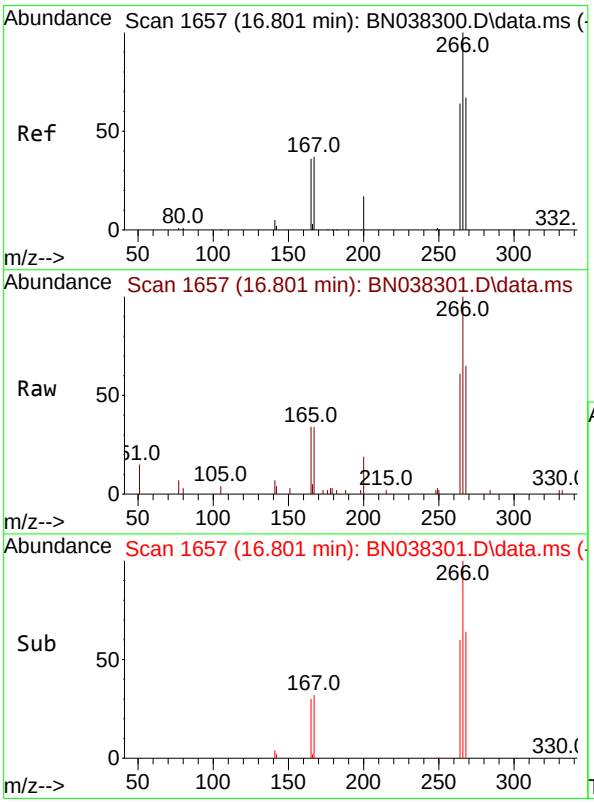
#23
Atrazine
Concen: 0.778 ng
RT: 16.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 6538

Ion	Ratio	Lower	Upper
200	100		
173	26.2	22.1	33.1
215	45.1	37.4	56.2

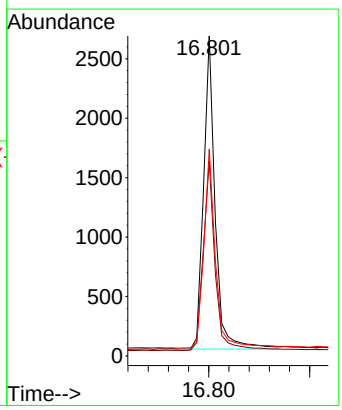


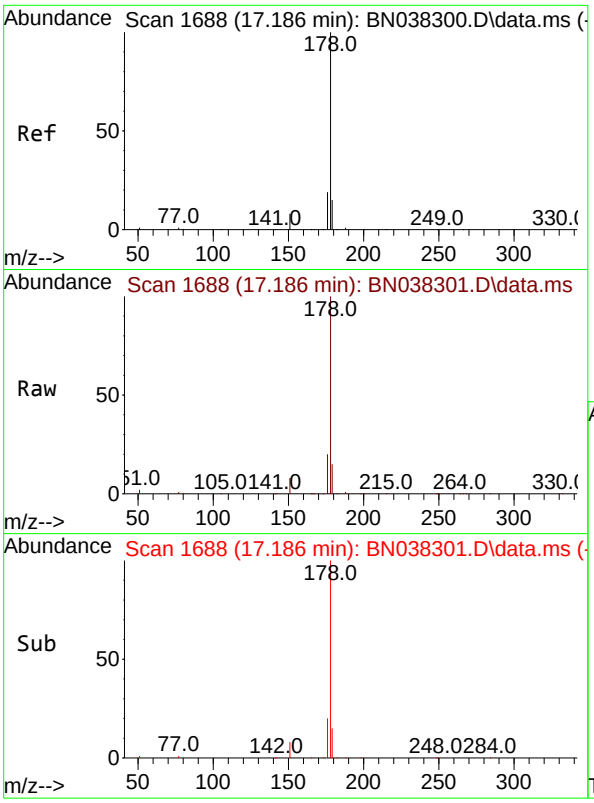


#24
Pentachlorophenol
Concen: 0.727 ng
RT: 16.801 min Scan# 1657
Delta R.T. -0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Tgt Ion:266 Resp: 4199

Ion	Ratio	Lower	Upper
266	100		
264	62.0	50.2	75.2
268	64.3	52.6	78.8



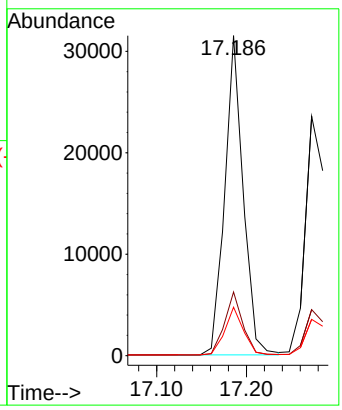


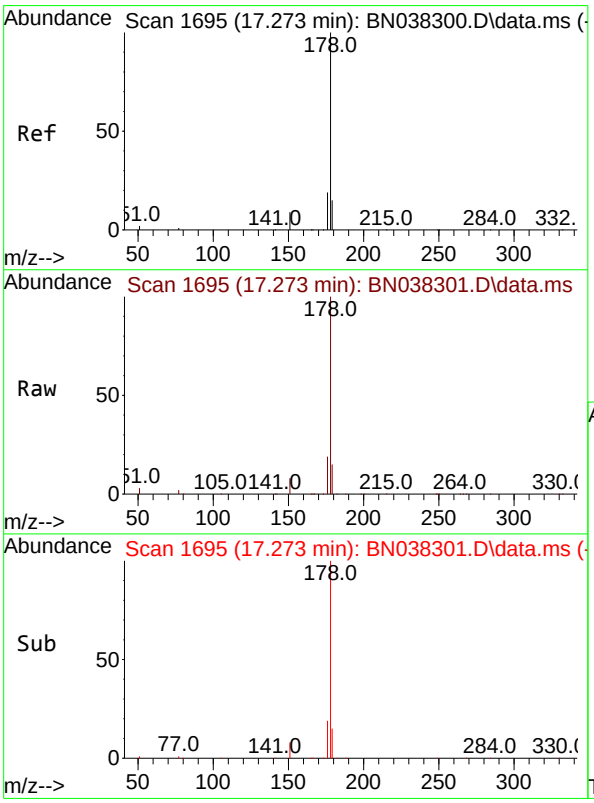
#25
Phenanthrene
Concen: 0.776 ng
RT: 17.186 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 44807

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.5	23.3
179	15.2	12.2	18.2

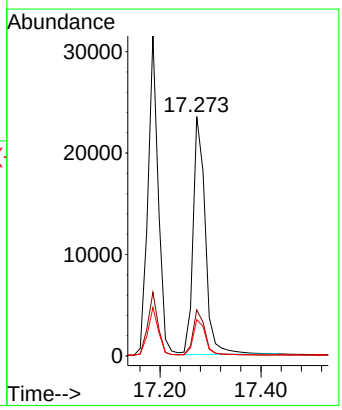


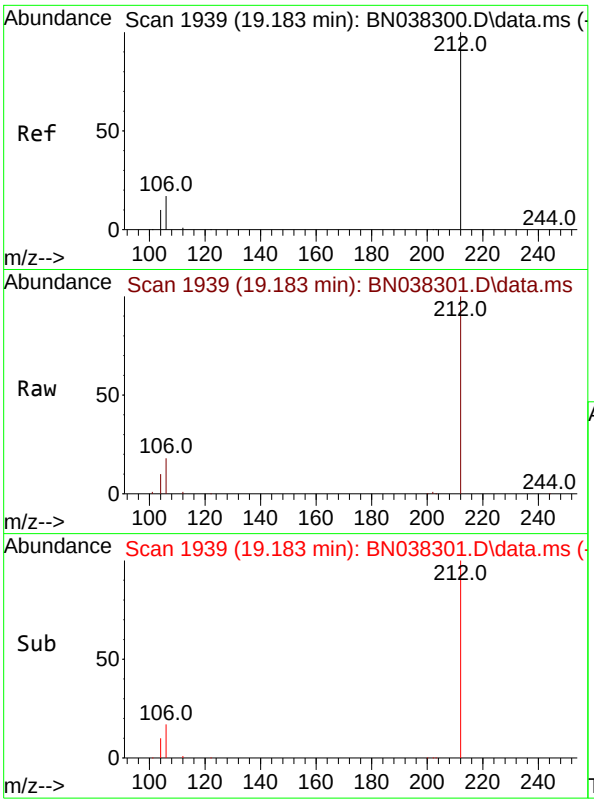


#26
Anthracene
Concen: 0.793 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Tgt Ion:178 Resp: 39515

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.1	22.7
179	15.2	12.0	18.0



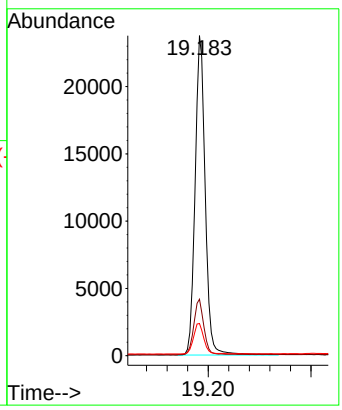


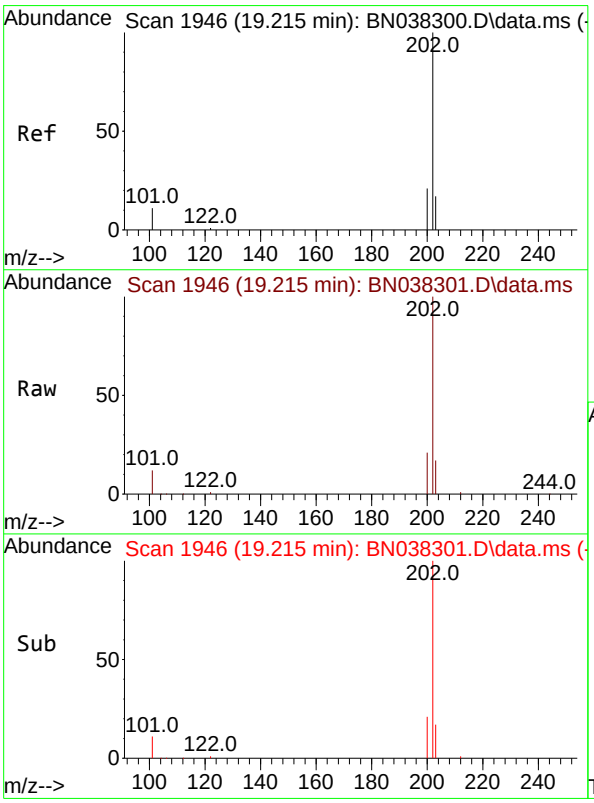
#27
Fluoranthene-d10
Concen: 0.795 ng
RT: 19.183 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 32647

Ion	Ratio	Lower	Upper
212	100		
106	17.2	13.7	20.5
104	9.7	7.8	11.8

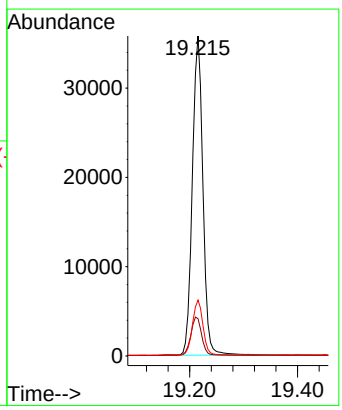


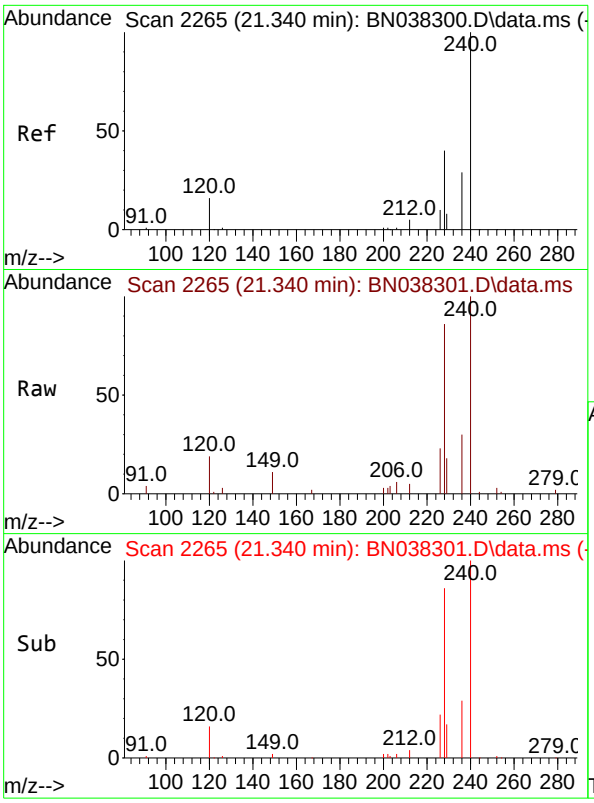


#28
Fluoranthene
Concen: 0.792 ng
RT: 19.215 min Scan# 1946
Delta R.T. -0.005 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Tgt Ion:202 Resp: 48652

Ion	Ratio	Lower	Upper
202	100		
101	12.5	9.6	14.4
203	16.9	13.5	20.3



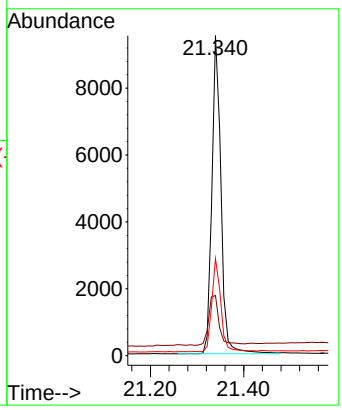


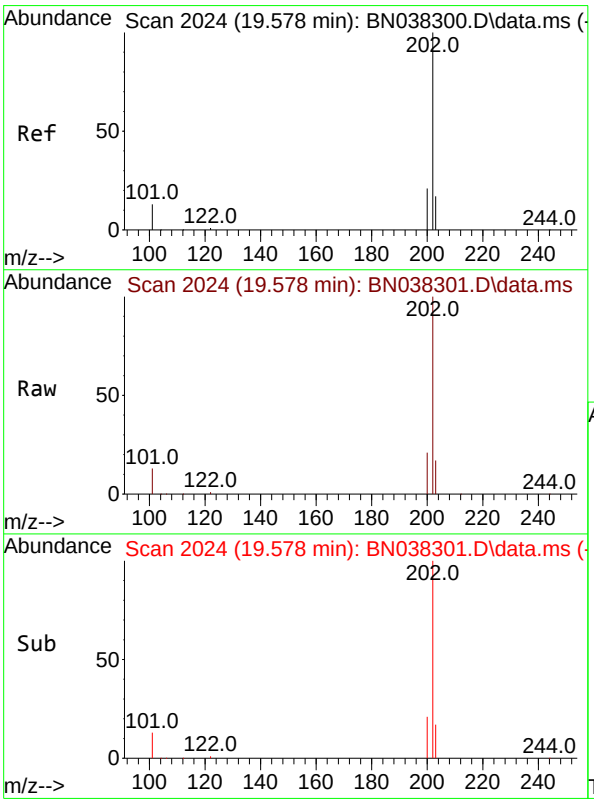
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.340 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 12910

Ion	Ratio	Lower	Upper
240	100		
120	18.8	15.4	23.2
236	30.3	23.9	35.9

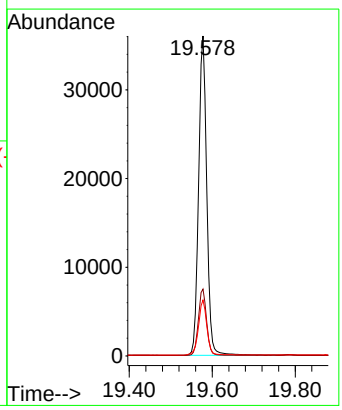


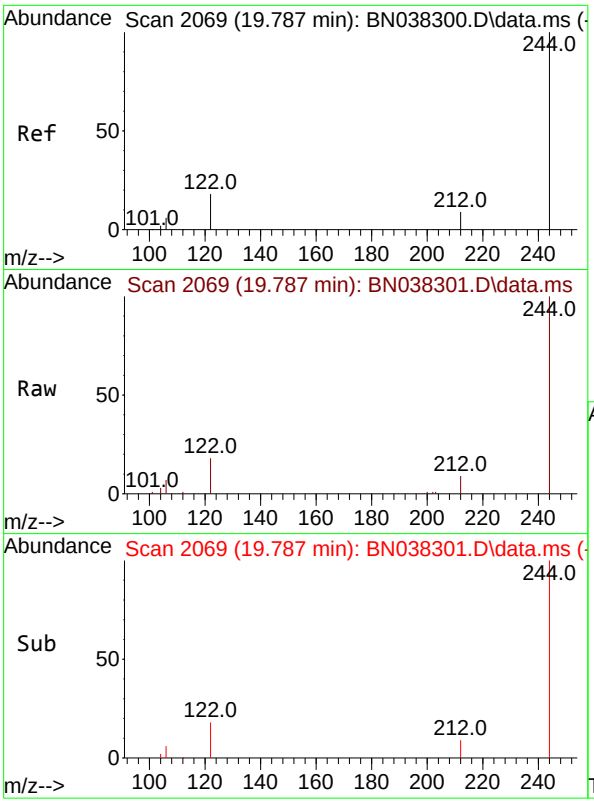


#30
Pyrene
Concen: 0.776 ng
RT: 19.578 min Scan# 2024
Delta R.T. -0.005 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Tgt Ion:202 Resp: 49288

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.9	25.3
203	17.6	14.2	21.2



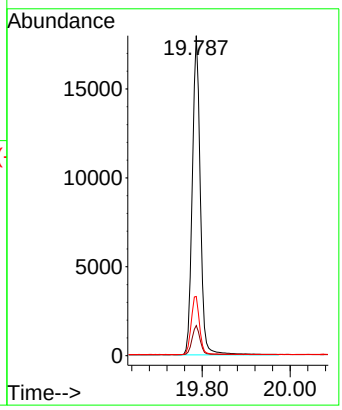


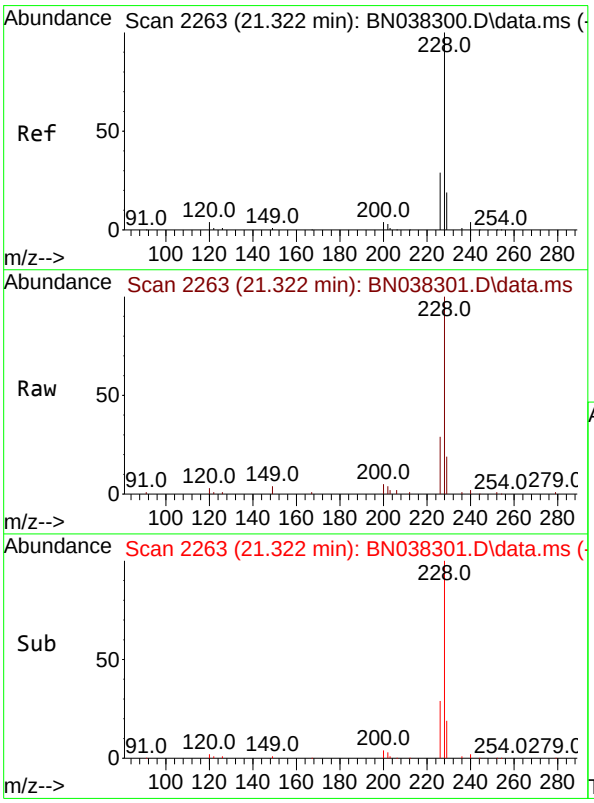
#31
Terphenyl-d14
Concen: 0.789 ng
RT: 19.787 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 22718

Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.9	11.9
122	18.5	15.0	22.6

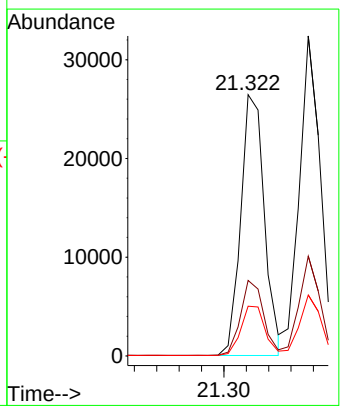


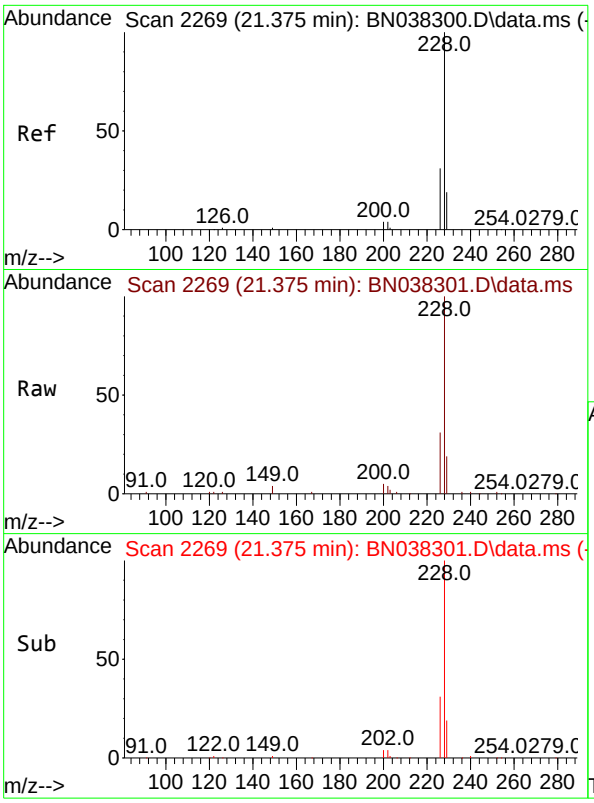


#32
Benzo(a)anthracene
Concen: 0.777 ng
RT: 21.322 min Scan# 2263
Delta R.T. -0.009 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Tgt Ion:228 Resp: 38762

Ion	Ratio	Lower	Upper
228	100		
226	28.9	23.3	34.9
229	19.1	15.7	23.5



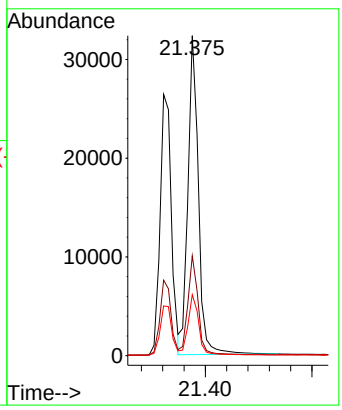


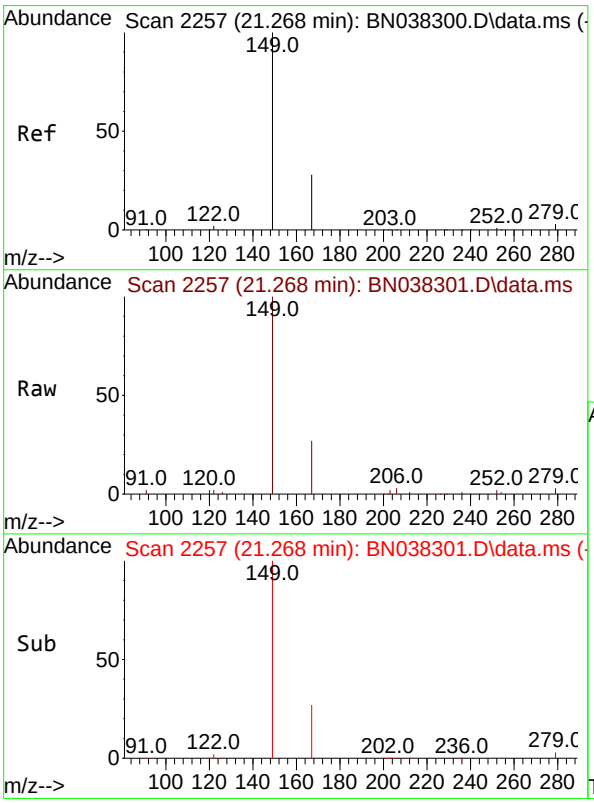
#33
Chrysene
Concen: 0.804 ng
RT: 21.375 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 44128

Ion	Ratio	Lower	Upper
228	100		
226	31.2	25.0	37.4
229	19.1	15.5	23.3

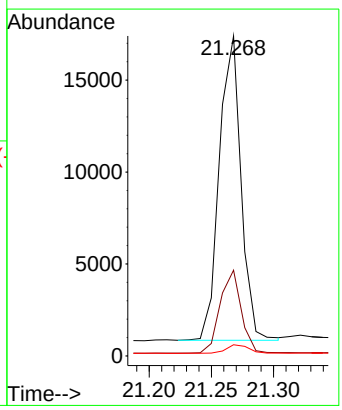


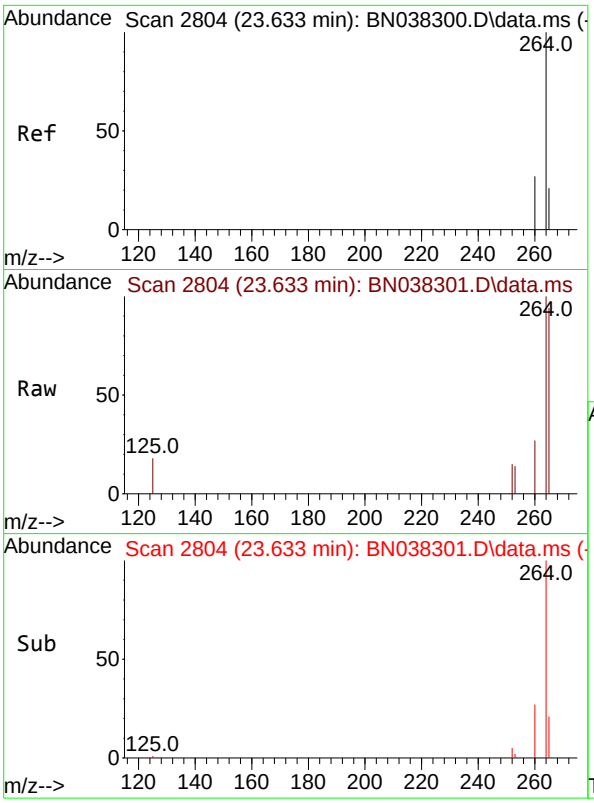


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.735 ng
RT: 21.268 min Scan# 2257
Delta R.T. -0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Tgt Ion:149 Resp: 20109

Ion	Ratio	Lower	Upper
149	100		
167	26.7	21.4	32.0
279	3.1	2.4	3.6



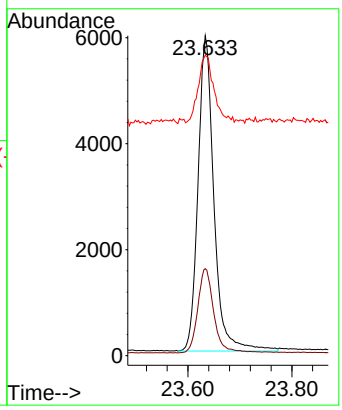


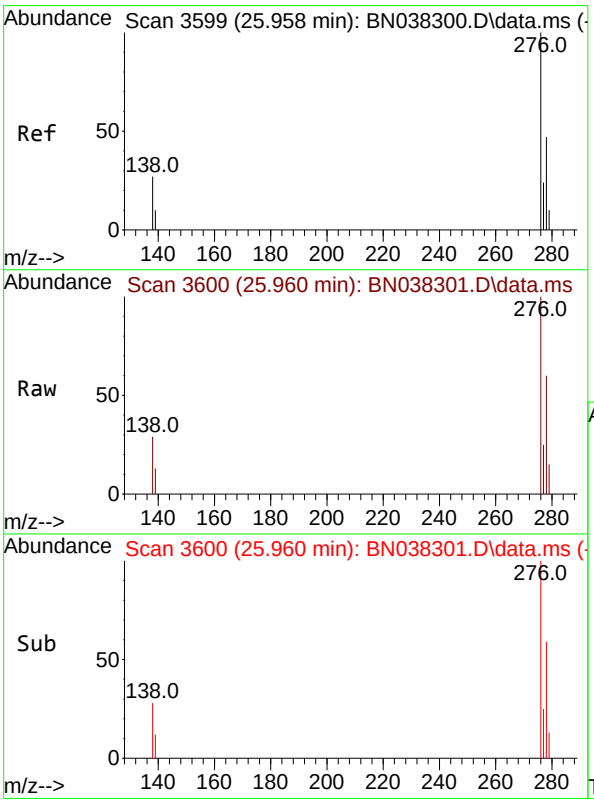
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.633 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 12619

Ion	Ratio	Lower	Upper
264	100		
260	27.2	22.2	33.2
265	93.9	80.2	120.2

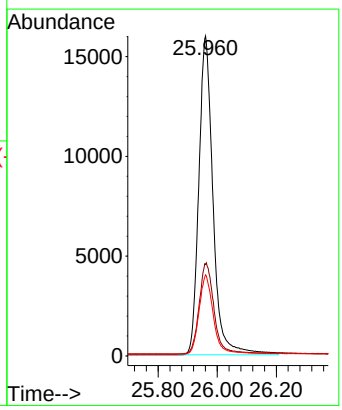


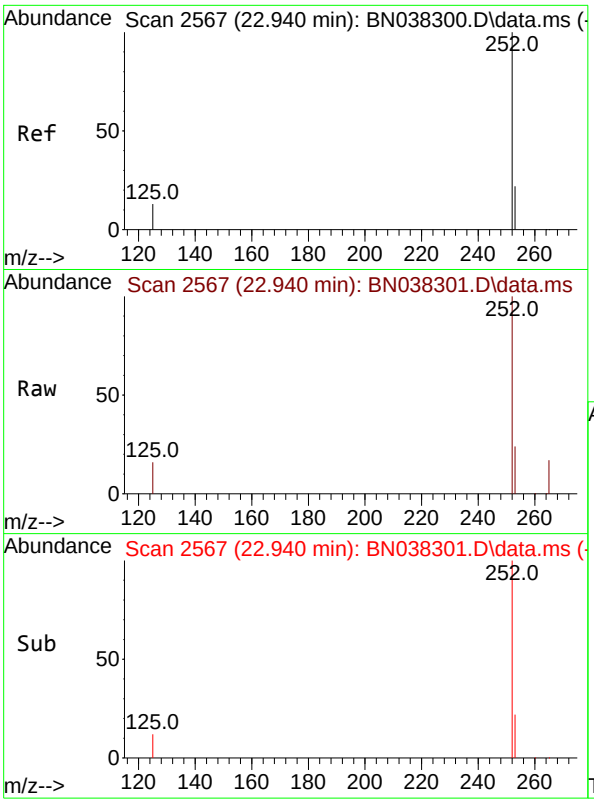


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.798 ng
RT: 25.960 min Scan# 3600
Delta R.T. -0.003 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Tgt Ion:276 Resp: 53409

Ion	Ratio	Lower	Upper
276	100		
138	29.7	23.6	35.4
277	24.4	19.7	29.5



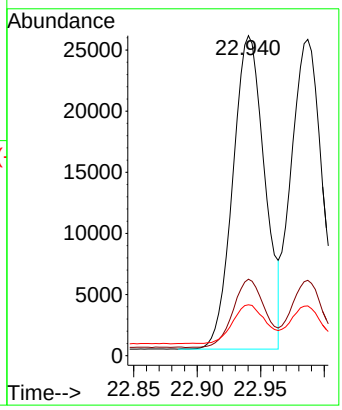


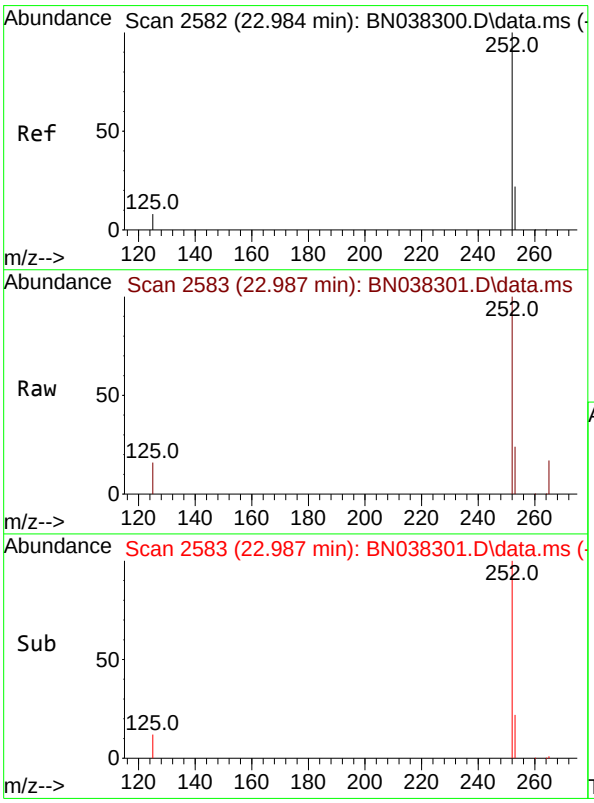
#37
Benzo(b)fluoranthene
Concen: 0.773 ng
RT: 22.940 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 44814

Ion	Ratio	Lower	Upper
252	100		
253	23.9	21.1	31.7
125	15.9	16.4	24.6#

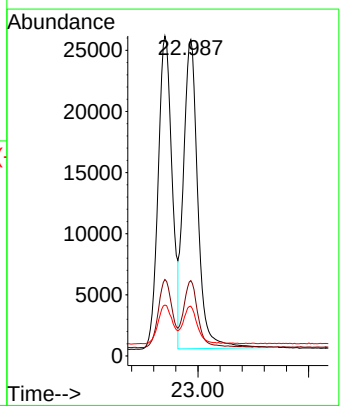


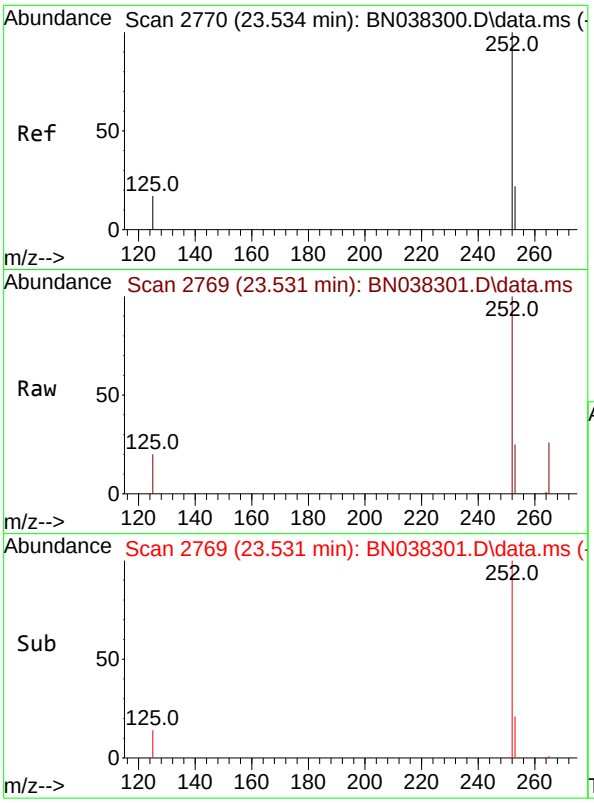


#38
Benzo(k)fluoranthene
Concen: 0.791 ng
RT: 22.987 min Scan# 2583
Delta R.T. -0.003 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Tgt Ion:252 Resp: 45726

Ion	Ratio	Lower	Upper
252	100		
253	23.8	21.4	32.0
125	15.7	16.2	24.2#



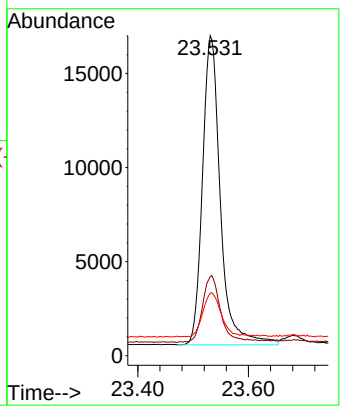


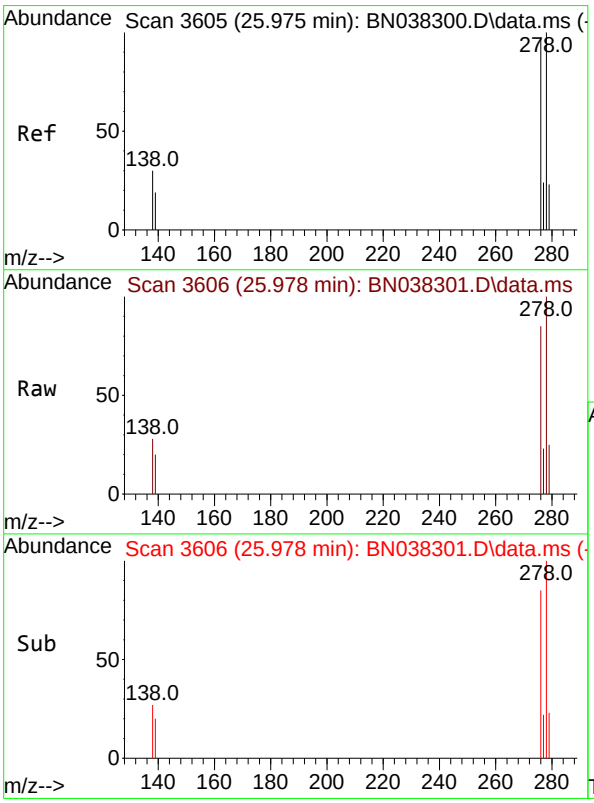
#39
Benzo(a)pyrene
Concen: 0.776 ng
RT: 23.531 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 36830

Ion	Ratio	Lower	Upper
252	100		
253	24.7	23.3	34.9
125	19.5	22.4	33.6#

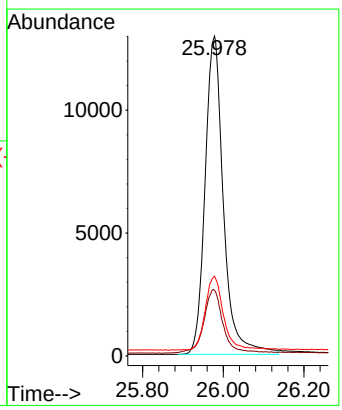


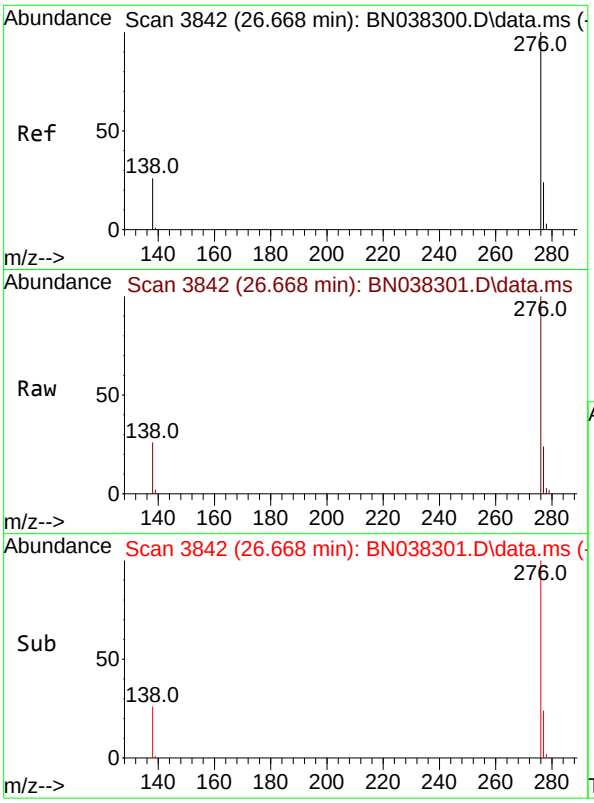


#40
Dibenzo(a,h)anthracene
Concen: 0.794 ng
RT: 25.978 min Scan# 3606
Delta R.T. -0.003 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Tgt Ion:278 Resp: 40988

Ion	Ratio	Lower	Upper
278	100		
139	20.5	17.8	26.8
279	25.0	21.3	31.9



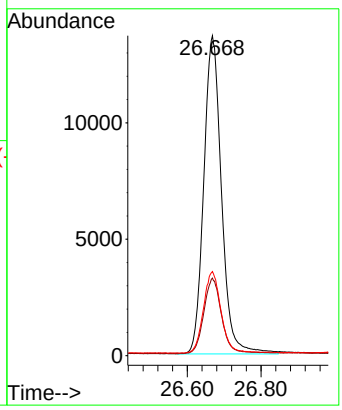


#41
Benzo(g,h,i)perylene
Concen: 0.790 ng
RT: 26.668 min Scan# 3
Delta R.T. -0.009 min
Lab File: BN038301.D
Acq: 10 Dec 2025 11:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 45587

Ion	Ratio	Lower	Upper
276	100		
277	24.3	20.0	30.0
138	26.3	21.8	32.6



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121025\
Data File : BN038302.D
Acq On : 10 Dec 2025 12:17
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Dec 10 14:00:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	6263	0.400	ng		0.00
7) Naphthalene-d8	10.520	136	16493	0.400	ng		#-0.01
13) Acenaphthene-d10	14.388	164	8387	0.400	ng		-0.01
19) Phenanthrene-d10	17.149	188	14601	0.400	ng		0.00
29) Chrysene-d12	21.340	240	11383	0.400	ng		0.00
35) Perylene-d12	23.630	264	10679	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.291	112	24513	1.572	ng		0.00
5) Phenol-d6	6.887	99	29702	1.602	ng		0.00
8) Nitrobenzene-d5	8.875	82	22047	1.585	ng		0.00
11) 2-Methylnaphthalene-d10	12.126	152	36899	1.586	ng		0.00
14) 2,4,6-Tribromophenol	15.895	330	5860	1.575	ng		0.00
15) 2-Fluorobiphenyl	13.009	172	62872	1.556	ng		0.00
27) Fluoranthene-d10	19.183	212	57448	1.591	ng		0.00
31) Terphenyl-d14	19.787	244	39298	1.547	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.196	88	11066	1.541	ng		99
3) n-Nitrosodimethylamine	3.499	42	14375	1.597	ng	#	98
6) bis(2-Chloroethyl)ether	7.147	93	28668	1.580	ng		99
9) Naphthalene	10.573	128	76464	1.568	ng		99
10) Hexachlorobutadiene	10.872	225	13520	1.560	ng	#	100
12) 2-Methylnaphthalene	12.197	142	49274	1.592	ng		99
16) Acenaphthylene	14.110	152	64734	1.572	ng		100
17) Acenaphthene	14.452	154	45547	1.587	ng		98
18) Fluorene	15.446	166	57951	1.570	ng		99
20) 4,6-Dinitro-2-methylph...	15.523	198	4052	1.687	ng	#	51
21) 4-Bromophenyl-phenylether	16.342	248	17091	1.578	ng		99
22) Hexachlorobenzene	16.454	284	20250	1.555	ng		100
23) Atrazine	16.615	200	11669	1.579	ng		98
24) Pentachlorophenol	16.801	266	7830	1.541	ng		99
25) Phenanthrene	17.186	178	79019	1.555	ng		100
26) Anthracene	17.273	178	69628	1.589	ng		100
28) Fluoranthene	19.211	202	86039	1.593	ng		99
30) Pyrene	19.578	202	86035	1.535	ng		100
32) Benzo(a)anthracene	21.322	228	68895	1.567	ng		98
33) Chrysene	21.375	228	76200	1.574	ng		99
34) Bis(2-ethylhexyl)phtha...	21.268	149	34320	1.423	ng		99
36) Indeno(1,2,3-cd)pyrene	25.955	276	90364	1.595	ng		100
37) Benzo(b)fluoranthene	22.940	252	78044	1.591	ng	#	90
38) Benzo(k)fluoranthene	22.984	252	77879	1.593	ng	#	90
39) Benzo(a)pyrene	23.531	252	63182	1.574	ng	#	85
40) Dibenzo(a,h)anthracene	25.975	278	70529	1.614	ng		96
41) Benzo(g,h,i)perylene	26.665	276	77643	1.590	ng		97

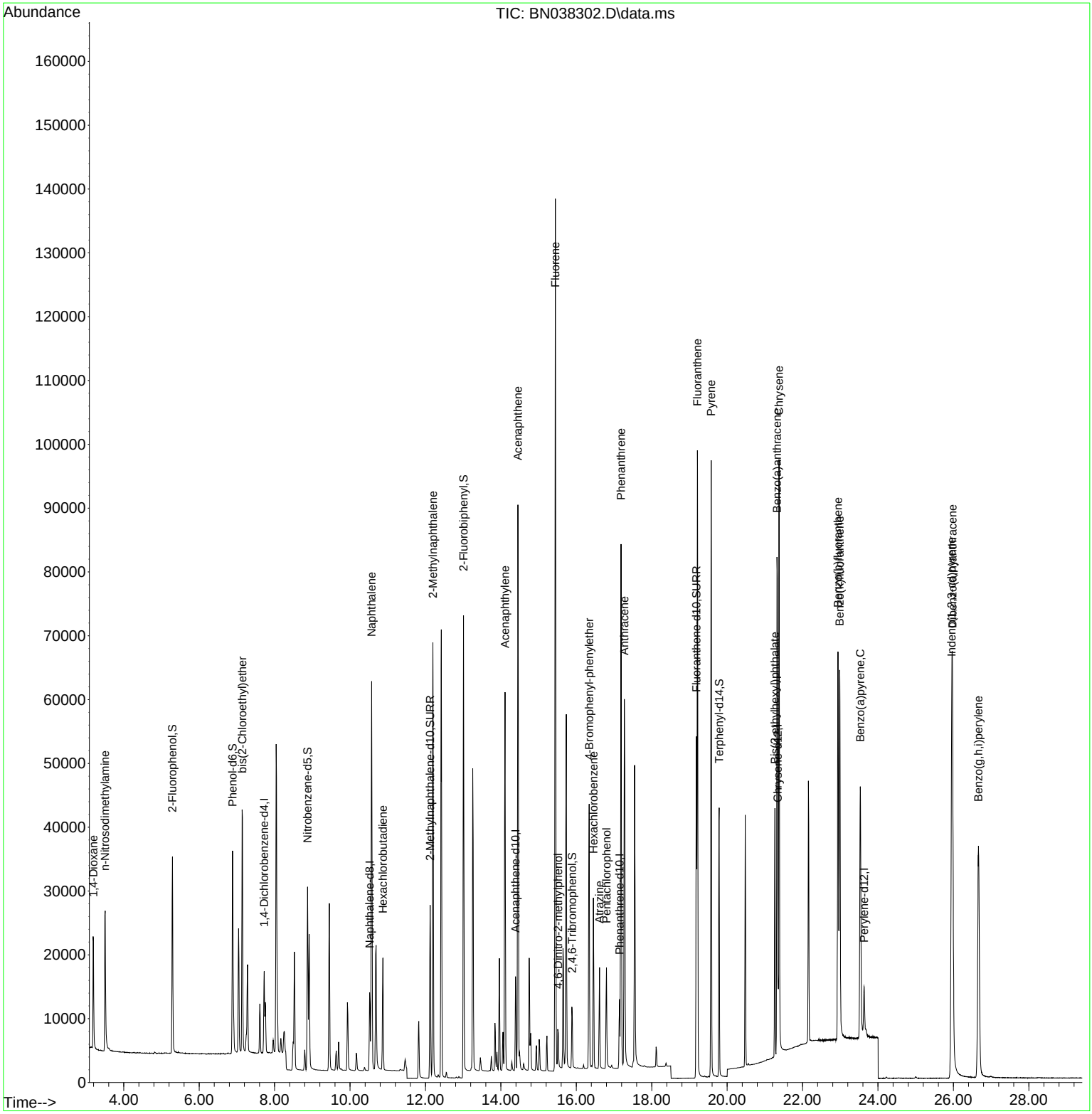
(#) = qualifier out of range (m) = manual integration (+) = signals summed

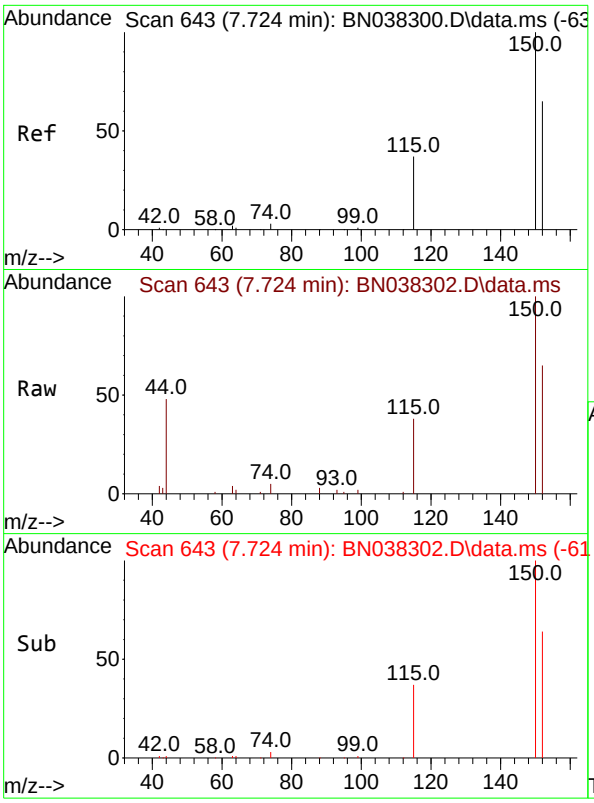
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121025\
Data File : BN038302.D
Acq On : 10 Dec 2025 12:17
Operator : RC/JU
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Dec 10 14:00:15 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration



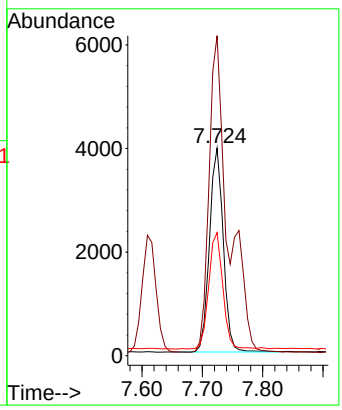


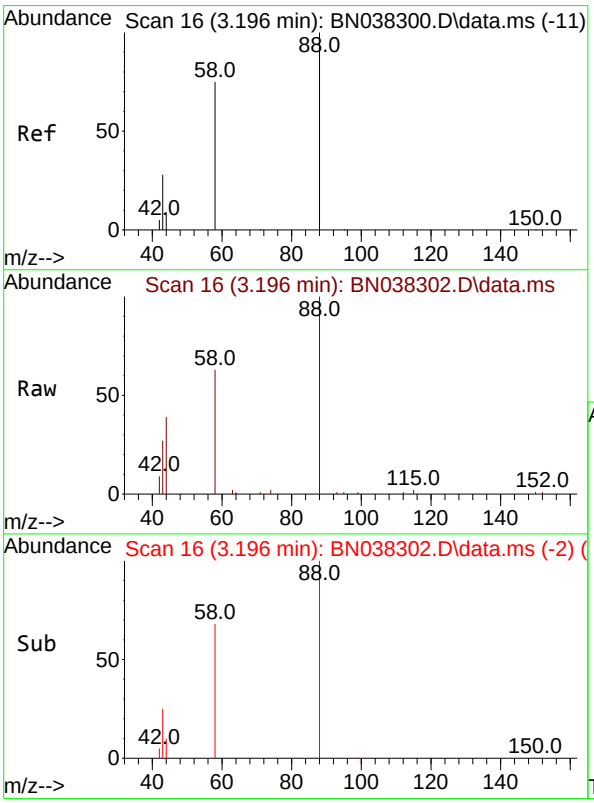
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 6263

Ion	Ratio	Lower	Upper
152	100		
150	154.1	122.4	183.6
115	59.3	47.3	70.9

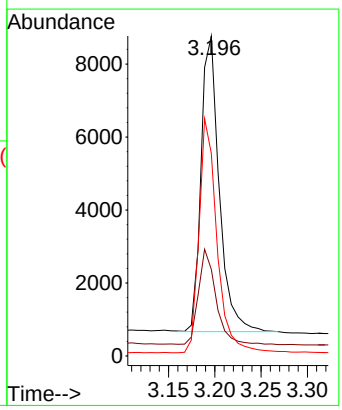


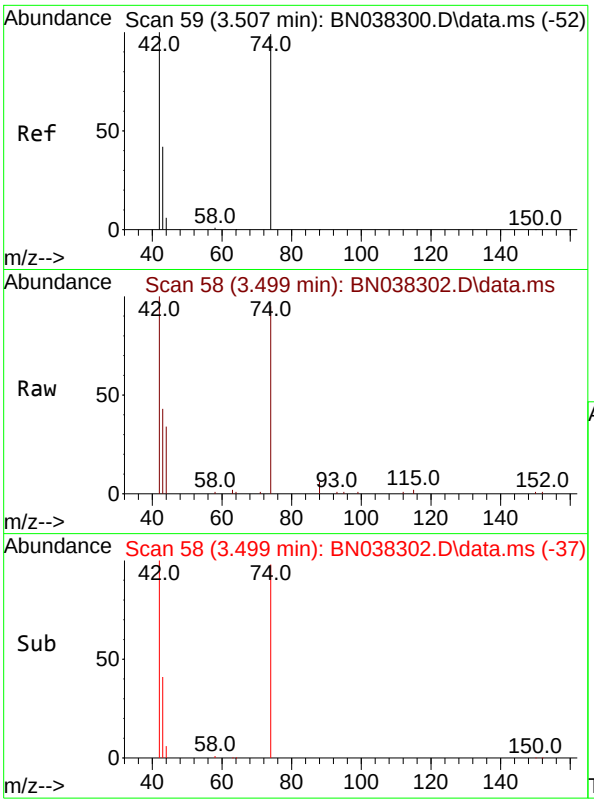


#2
1,4-Dioxane
Concen: 1.541 ng
RT: 3.196 min Scan# 16
Delta R.T. 0.000 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Tgt Ion: 88 Resp: 11066

Ion	Ratio	Lower	Upper
88	100		
43	31.3	24.9	37.3
58	78.2	61.4	92.0



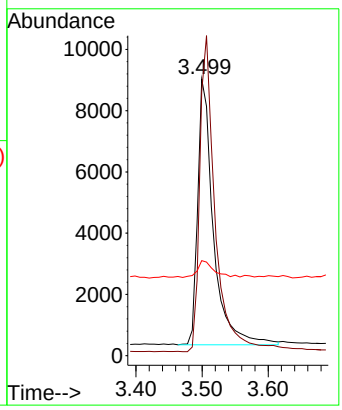


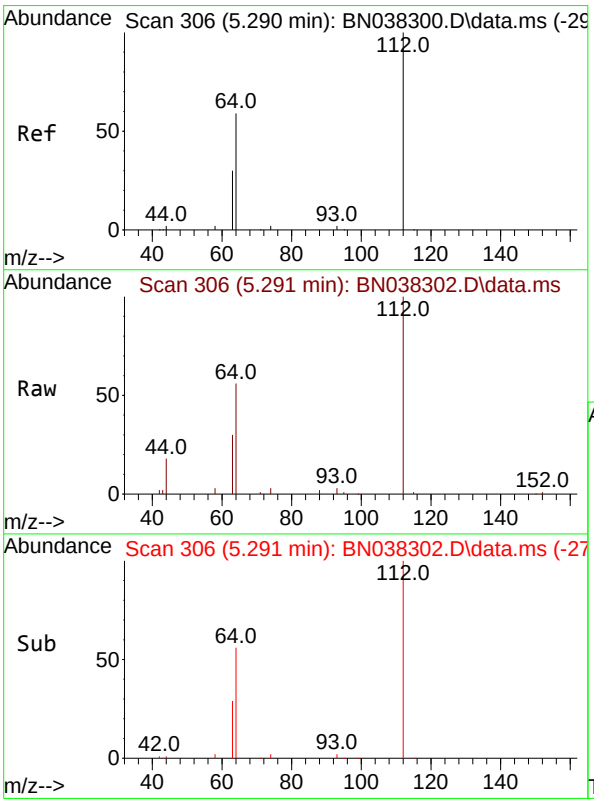
#3
n-Nitrosodimethylamine
Concen: 1.597 ng
RT: 3.499 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 14375

Ion	Ratio	Lower	Upper
42	100		
74	117.5	95.3	142.9
44	6.5	7.9	11.9#

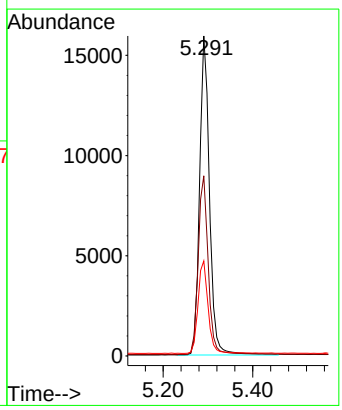


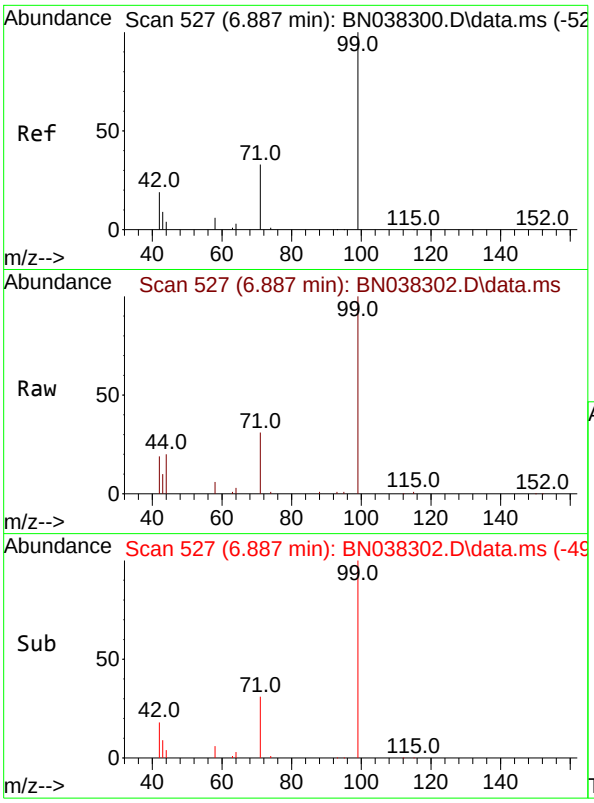


#4
2-Fluorophenol
Concen: 1.572 ng
RT: 5.291 min Scan# 306
Delta R.T. 0.000 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Tgt Ion:112 Resp: 24513

Ion	Ratio	Lower	Upper
112	100		
64	56.8	44.4	66.6
63	29.7	23.4	35.0



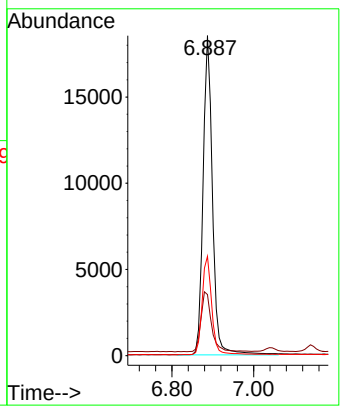


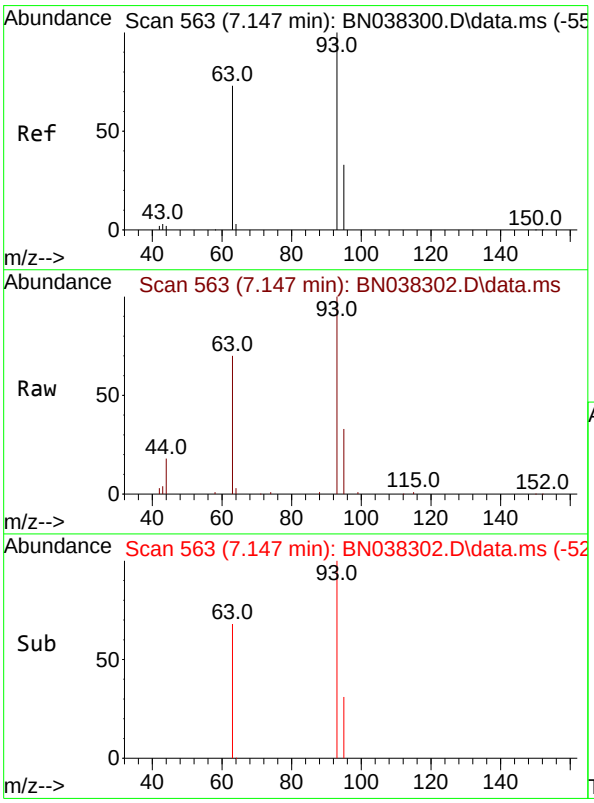
#5
Phenol-d6
Concen: 1.602 ng
RT: 6.887 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 29702

Ion	Ratio	Lower	Upper
99	100		
42	21.2	16.5	24.7
71	31.6	24.9	37.3

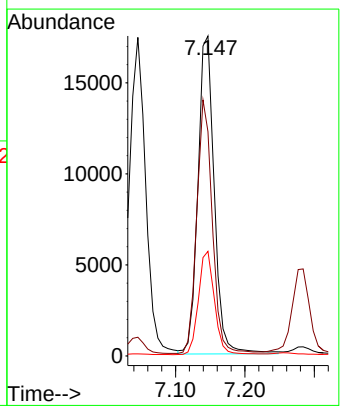


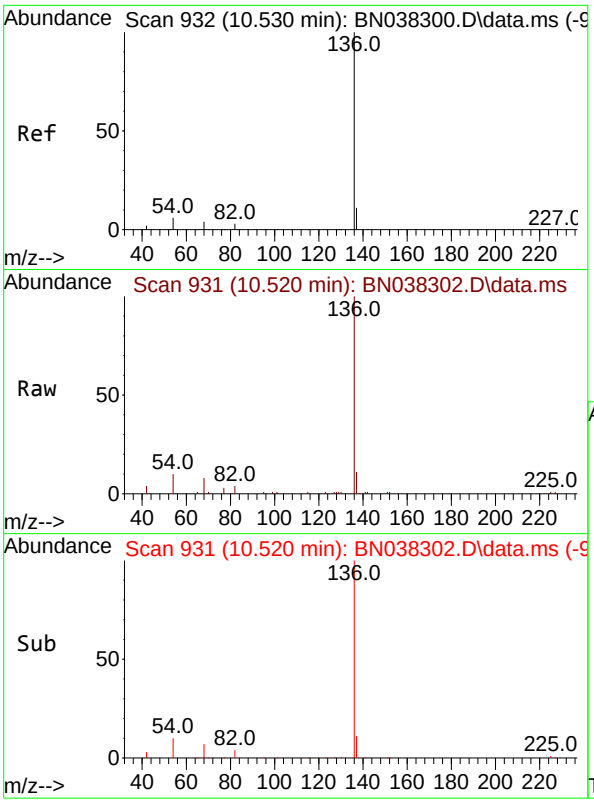


#6
bis(2-Chloroethyl)ether
Concen: 1.580 ng
RT: 7.147 min Scan# 563
Delta R.T. 0.000 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Tgt Ion: 93 Resp: 28668

Ion	Ratio	Lower	Upper
93	100		
63	75.5	59.2	88.8
95	31.9	25.2	37.8



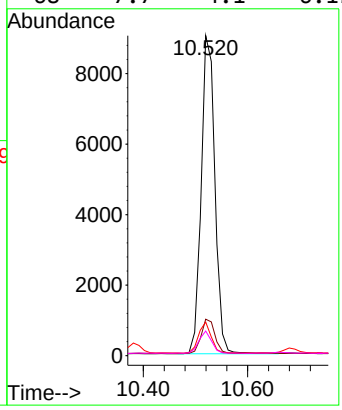


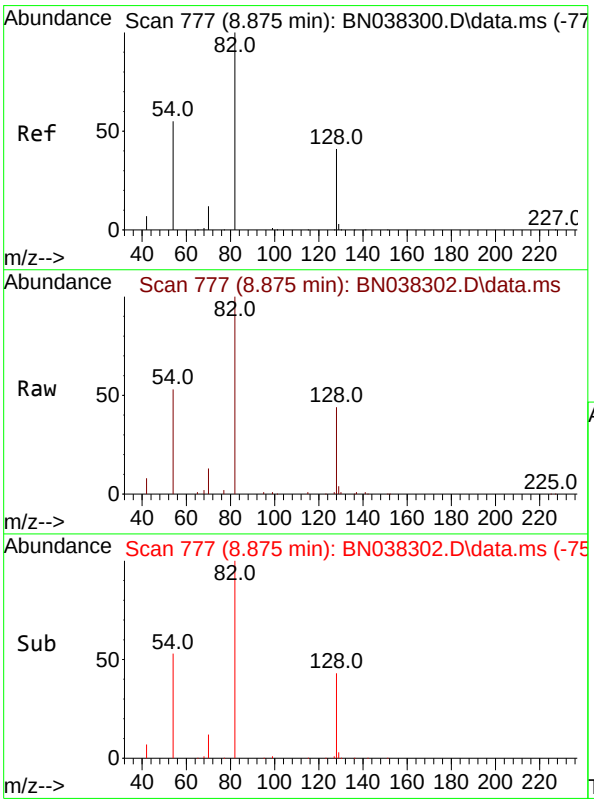
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.520 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 16493

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.1	13.7
54	10.5	5.2	7.8#
68	7.7	4.1	6.1#

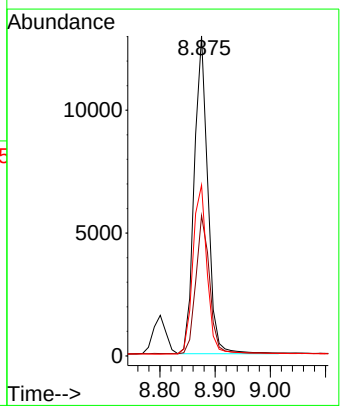


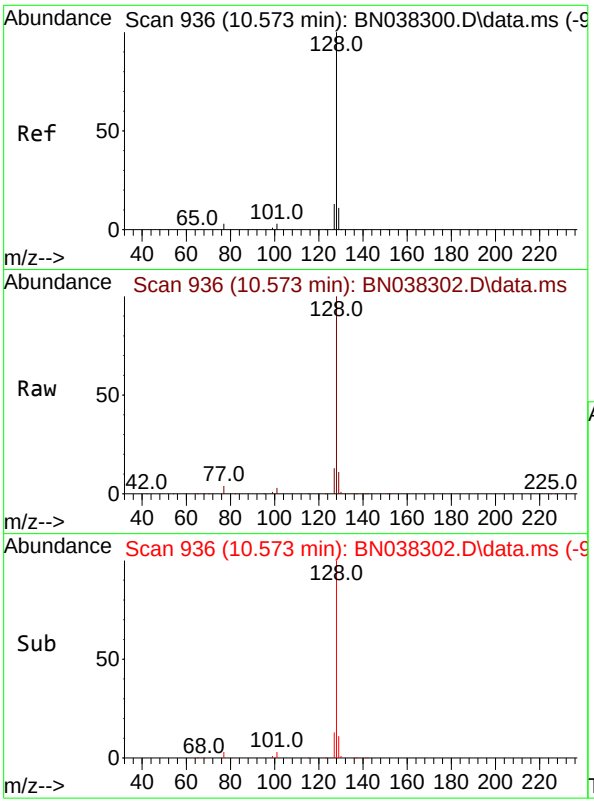


#8
Nitrobenzene-d5
Concen: 1.585 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Tgt Ion: 82 Resp: 22047

Ion	Ratio	Lower	Upper
82	100		
128	43.9	34.0	51.0
54	53.4	44.4	66.6



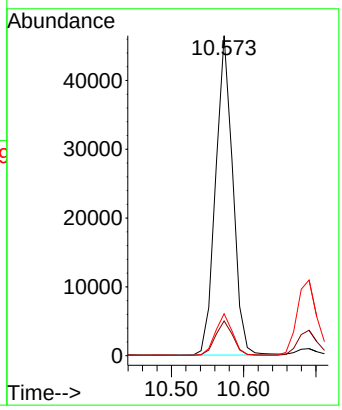


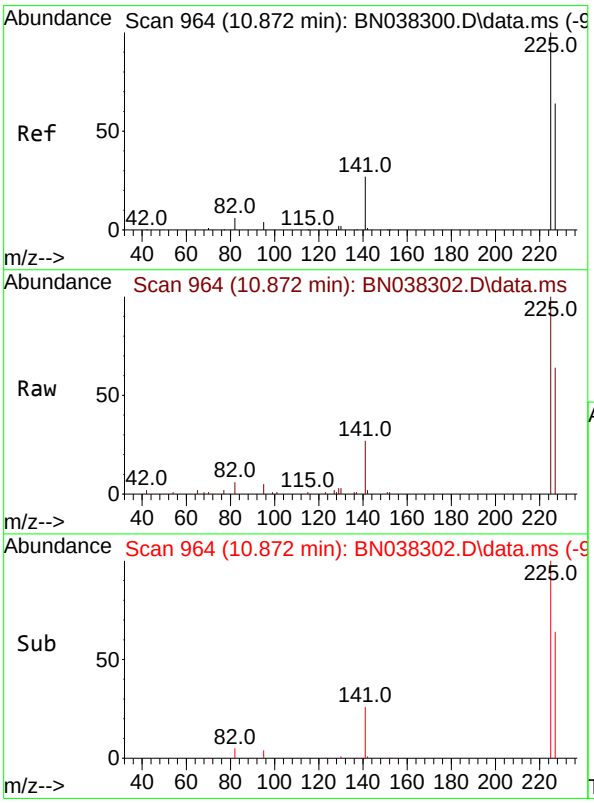
#9
Naphthalene
Concen: 1.568 ng
RT: 10.573 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 76464

Ion	Ratio	Lower	Upper
128	100		
129	10.8	9.1	13.7
127	13.1	10.9	16.3

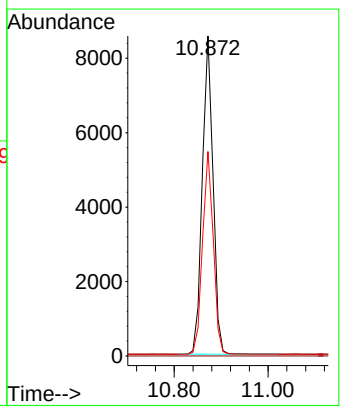


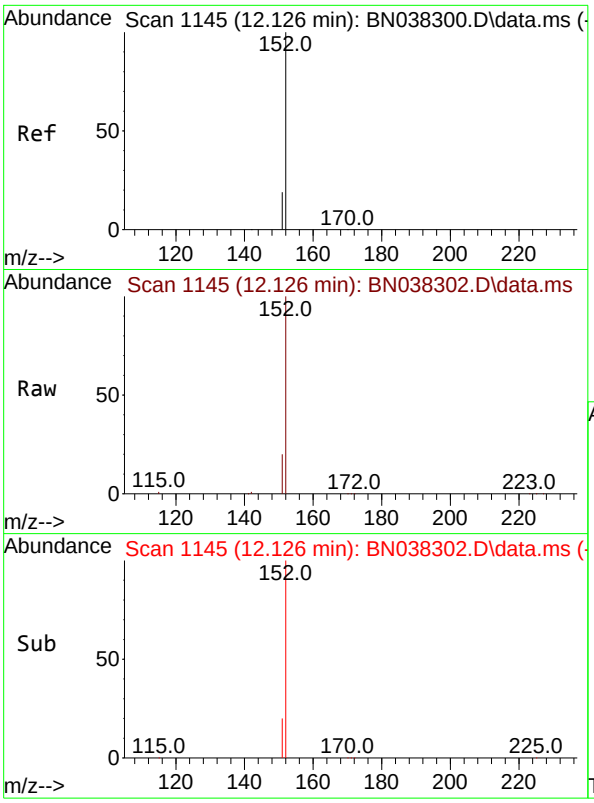


#10
Hexachlorobutadiene
Concen: 1.560 ng
RT: 10.872 min Scan# 964
Delta R.T. 0.000 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Tgt Ion:225 Resp: 13520

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	51.2	76.8



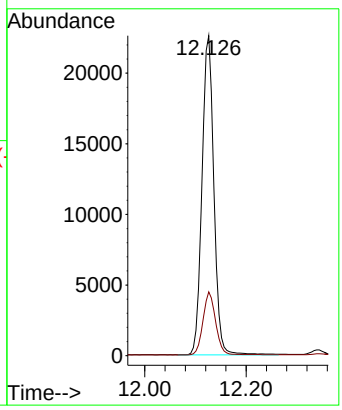


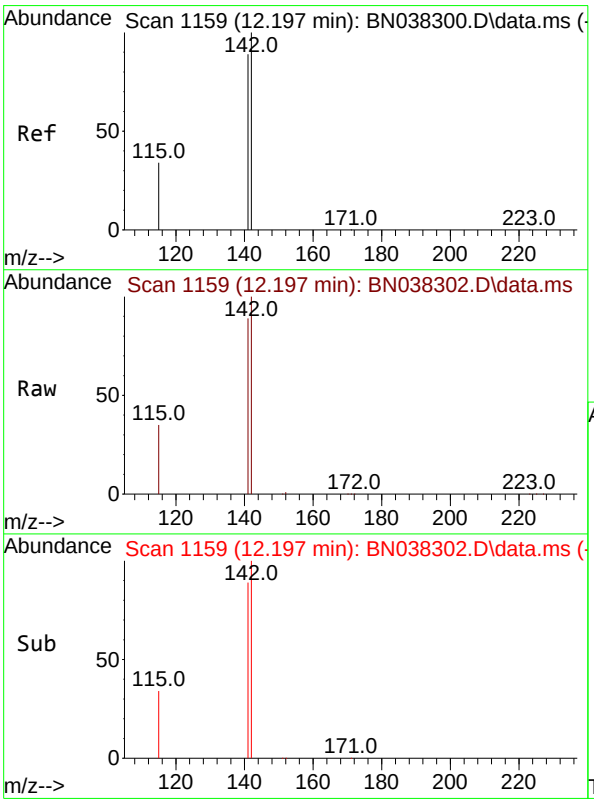
#11
2-Methylnaphthalene-d10
Concen: 1.586 ng
RT: 12.126 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 36899

Ion	Ratio	Lower	Upper
152	100		
151	20.9	17.0	25.6

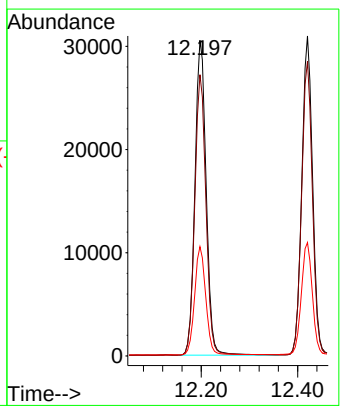


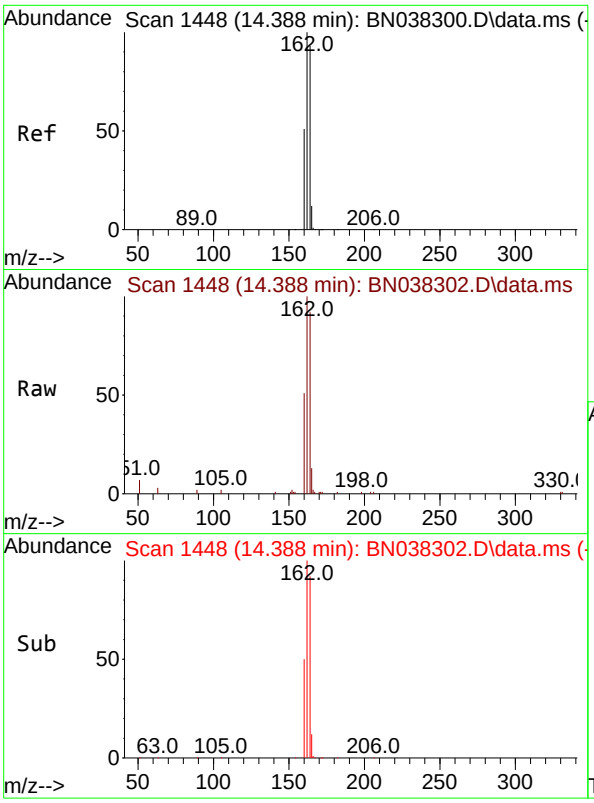


#12
2-Methylnaphthalene
Concen: 1.592 ng
RT: 12.197 min Scan# 1159
Delta R.T. -0.005 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Tgt Ion:142 Resp: 49274

Ion	Ratio	Lower	Upper
142	100		
141	89.1	71.4	107.2
115	34.6	28.4	42.6



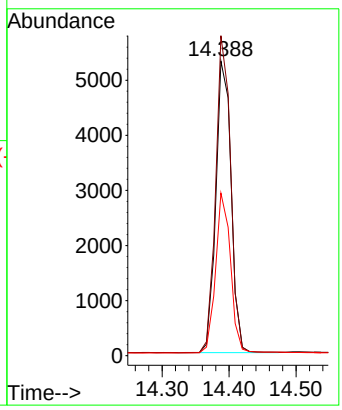


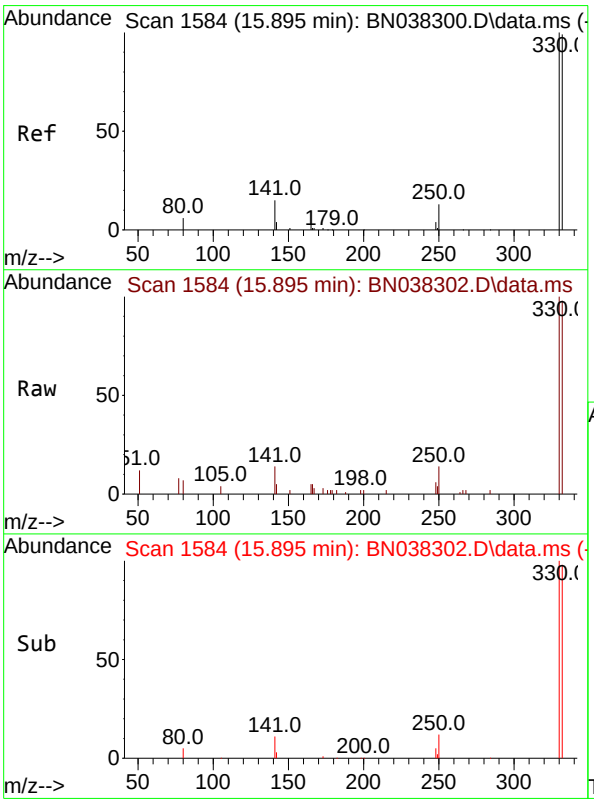
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 8387

Ion	Ratio	Lower	Upper
164	100		
162	108.7	86.2	129.4
160	55.2	44.6	67.0

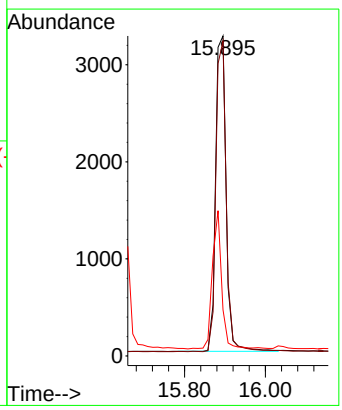


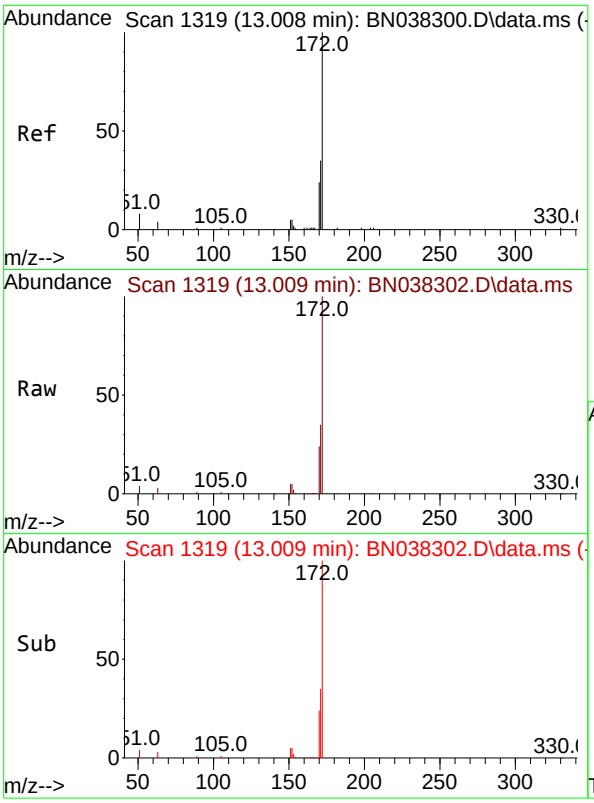


#14
2,4,6-Tribromophenol
Concen: 1.575 ng
RT: 15.895 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Tgt Ion:330 Resp: 5860

Ion	Ratio	Lower	Upper
330	100		
332	96.9	75.8	113.6
141	39.0	31.8	47.8



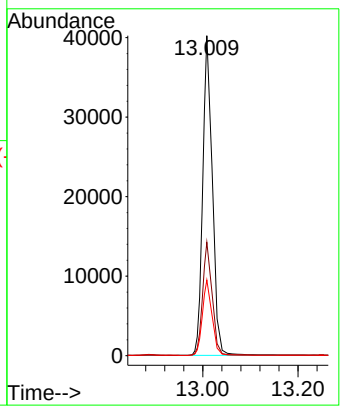


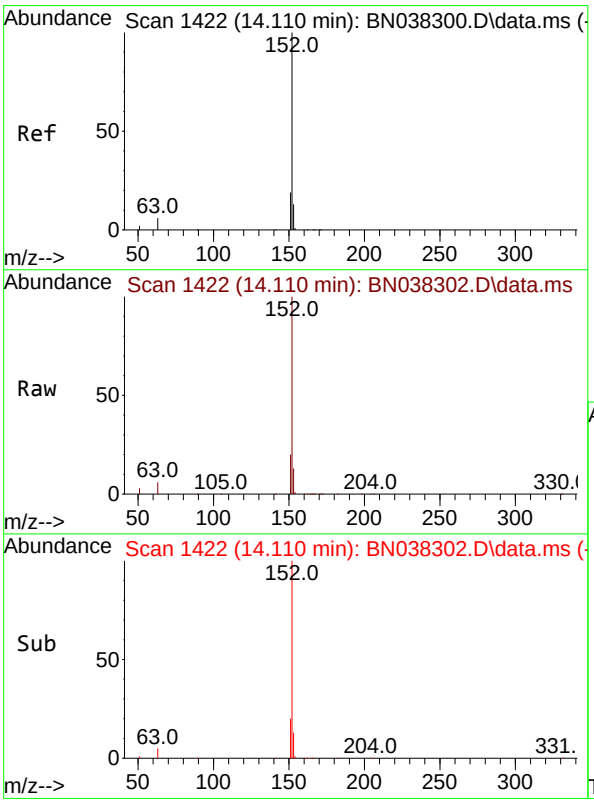
#15
2-Fluorobiphenyl
Concen: 1.556 ng
RT: 13.009 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 62872

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.6	42.8
170	23.6	19.3	28.9

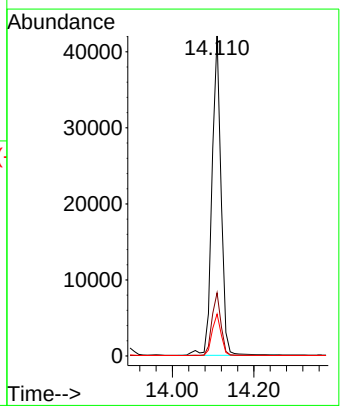


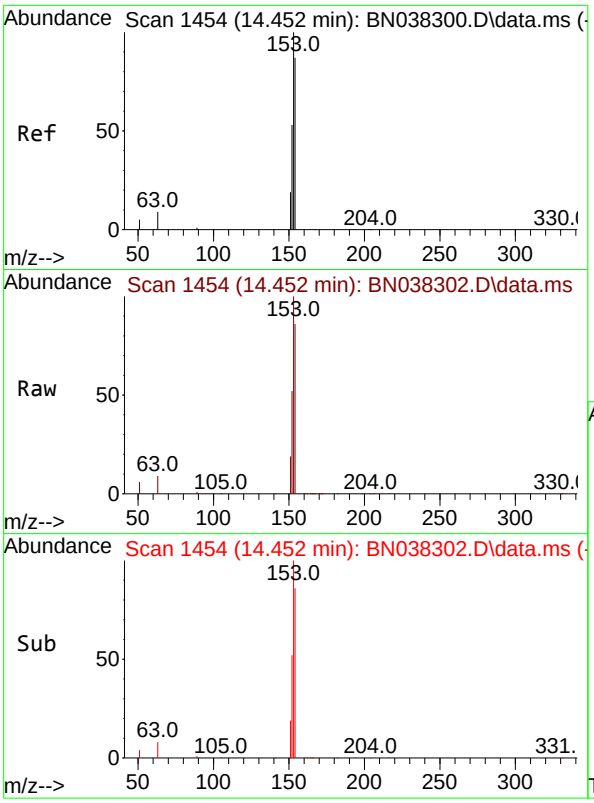


#16
Acenaphthylene
Concen: 1.572 ng
RT: 14.110 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Tgt Ion:152 Resp: 64734

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.4	23.2
153	13.0	10.2	15.4



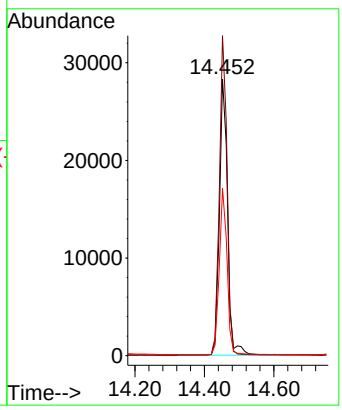


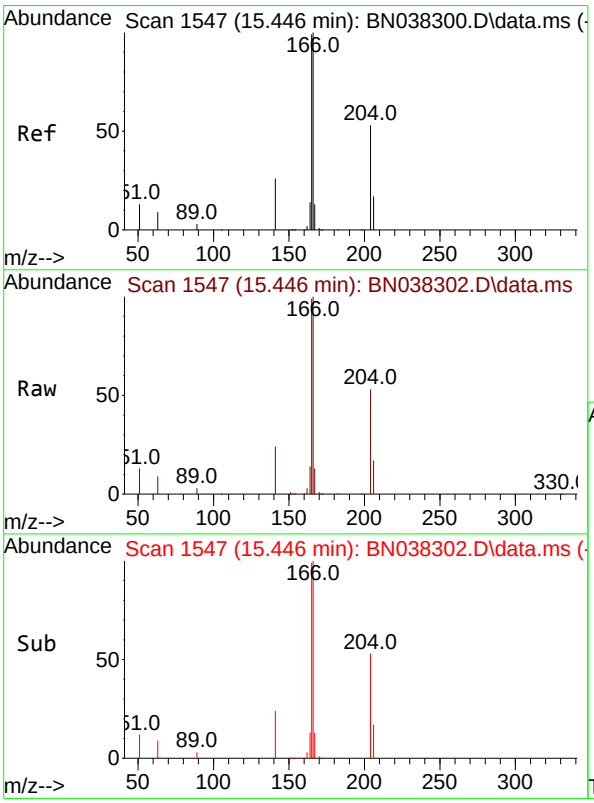
#17
Acenaphthene
Concen: 1.587 ng
RT: 14.452 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 45547

Ion	Ratio	Lower	Upper
154	100		
153	110.1	89.8	134.8
152	57.9	47.5	71.3

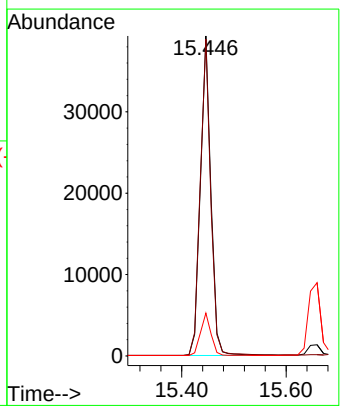


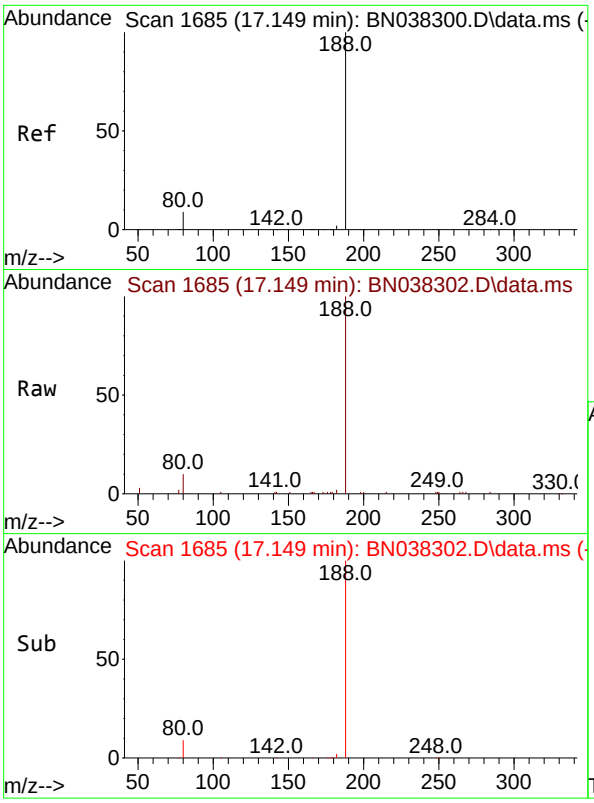


#18
Fluorene
Concen: 1.570 ng
RT: 15.446 min Scan# 1547
Delta R.T. 0.000 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Tgt Ion:166 Resp: 57951

Ion	Ratio	Lower	Upper
166	100		
165	98.8	80.2	120.4
167	13.2	10.6	16.0



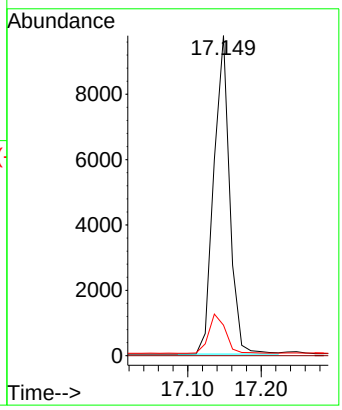


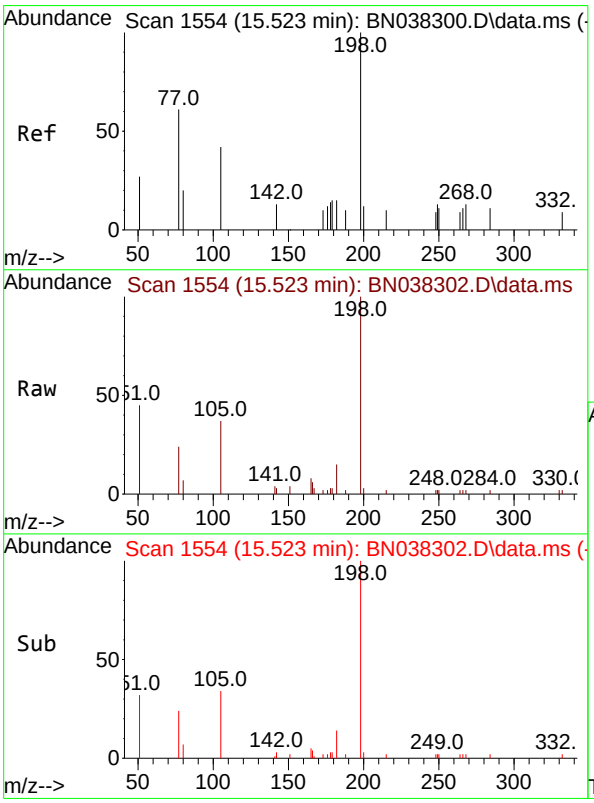
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.149 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 14601

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.5	7.4	11.0

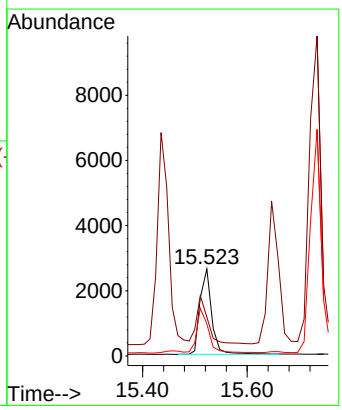


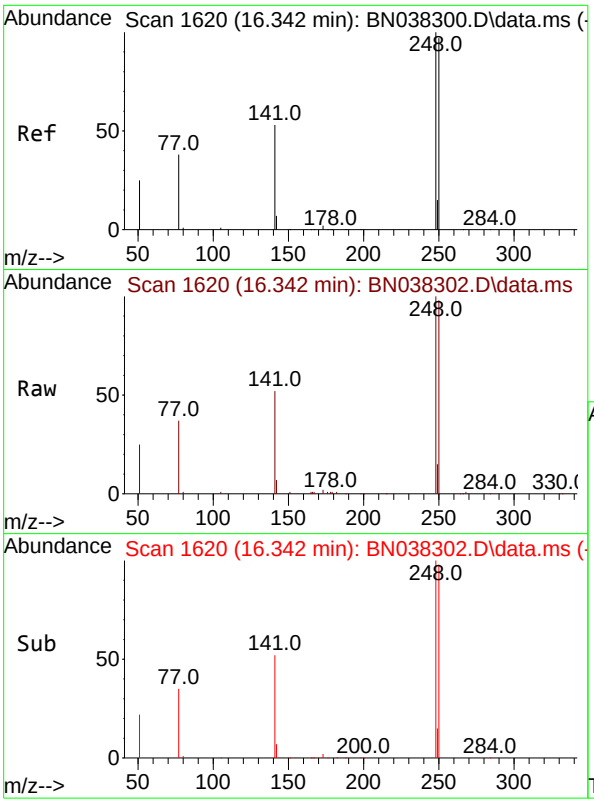


#20
4,6-Dinitro-2-methylphenol
Concen: 1.687 ng
RT: 15.523 min Scan# 1554
Delta R.T. 0.001 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Tgt Ion:198 Resp: 4052

Ion	Ratio	Lower	Upper
198	100		
51	44.6	86.3	129.5#
105	36.8	45.3	67.9#



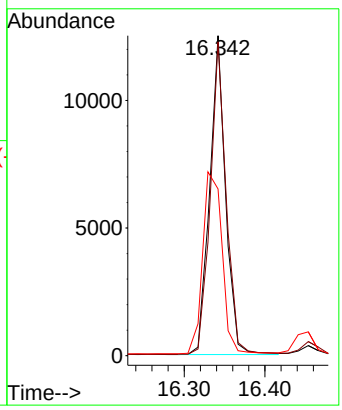


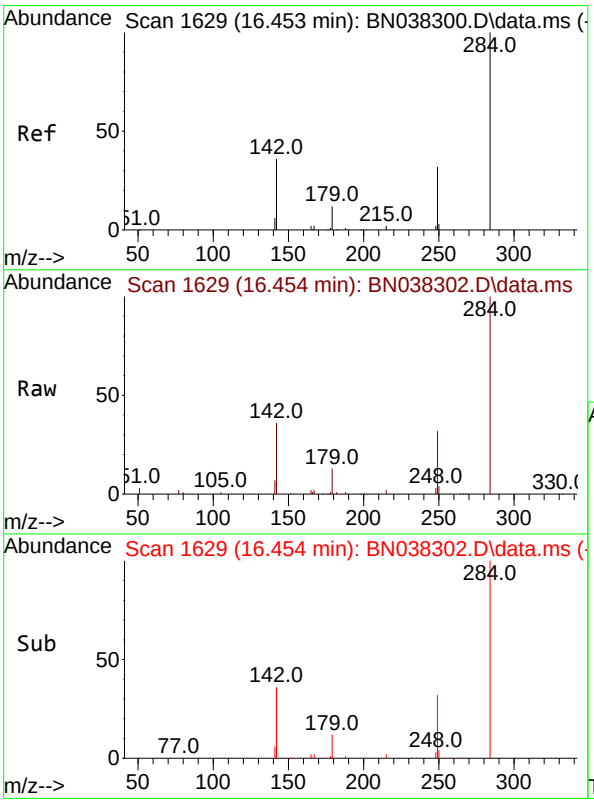
#21
4-Bromophenyl-phenylether
Concen: 1.578 ng
RT: 16.342 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 17091

Ion	Ratio	Lower	Upper
248	100		
250	98.1	78.2	117.2
141	52.1	43.7	65.5

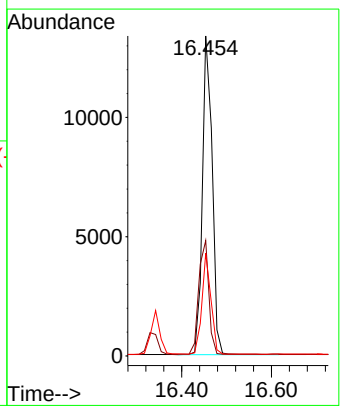


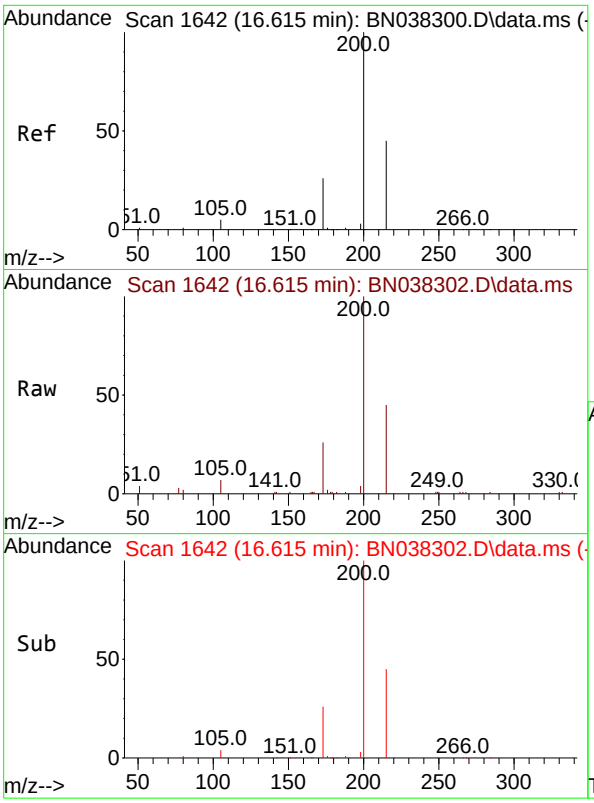


#22
Hexachlorobenzene
Concen: 1.555 ng
RT: 16.454 min Scan# 1629
Delta R.T. -0.012 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Tgt Ion:284 Resp: 20250

Ion	Ratio	Lower	Upper
284	100		
142	37.1	29.5	44.3
249	29.5	23.7	35.5



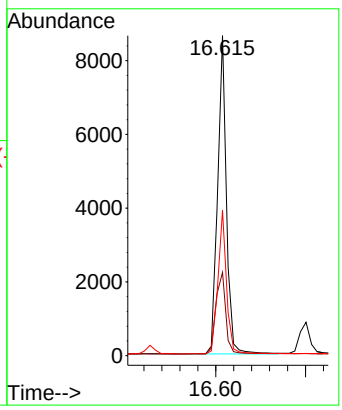


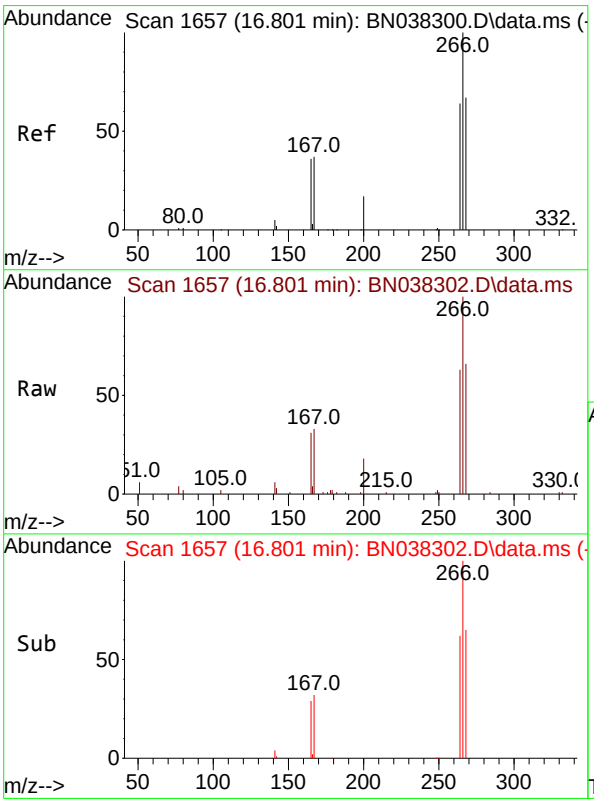
#23
Atrazine
Concen: 1.579 ng
RT: 16.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 11669

Ion	Ratio	Lower	Upper
200	100		
173	26.1	22.1	33.1
215	45.4	37.4	56.2

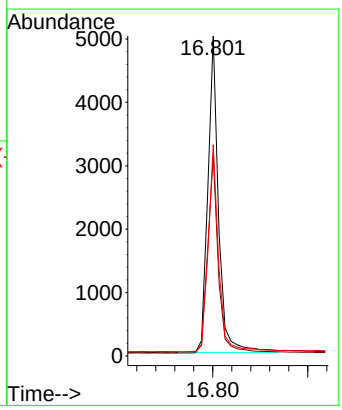


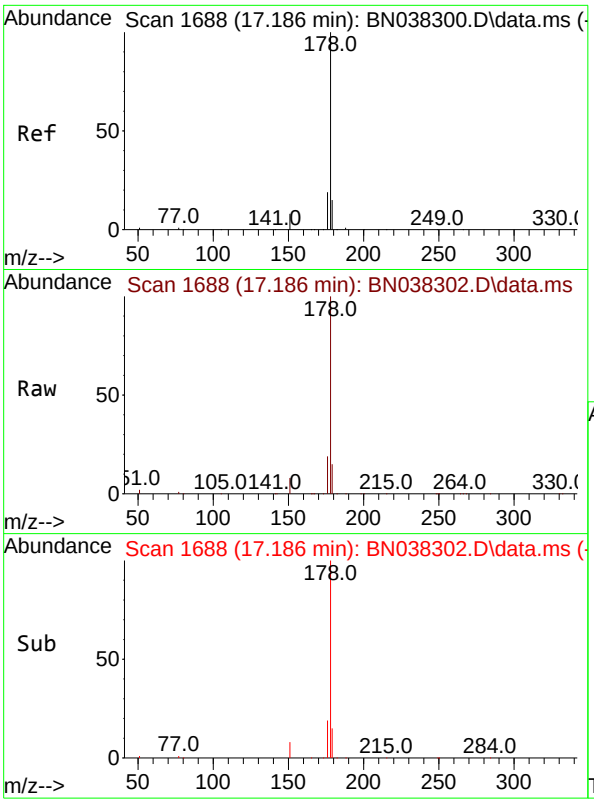


#24
Pentachlorophenol
Concen: 1.541 ng
RT: 16.801 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Tgt Ion:266 Resp: 7830

Ion	Ratio	Lower	Upper
266	100		
264	62.6	50.2	75.2
268	64.7	52.6	78.8



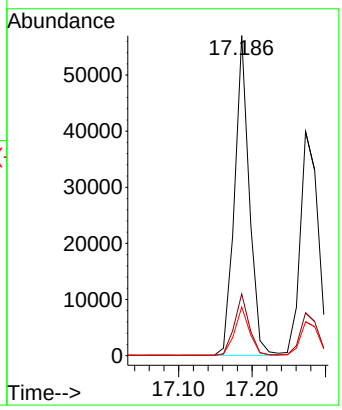


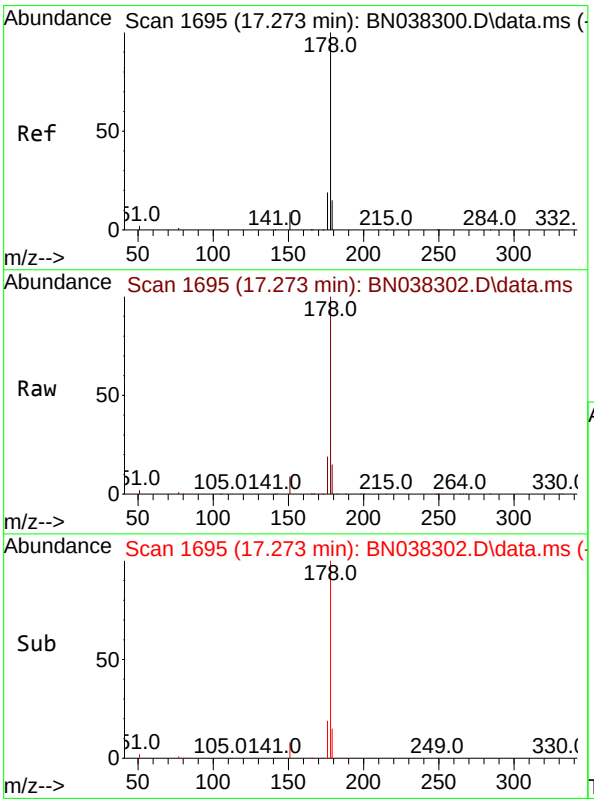
#25
Phenanthrene
Concen: 1.555 ng
RT: 17.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 79019

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.5	23.3
179	15.2	12.2	18.2

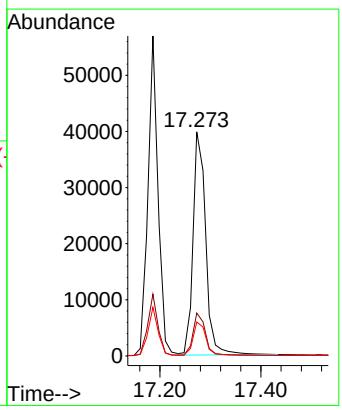


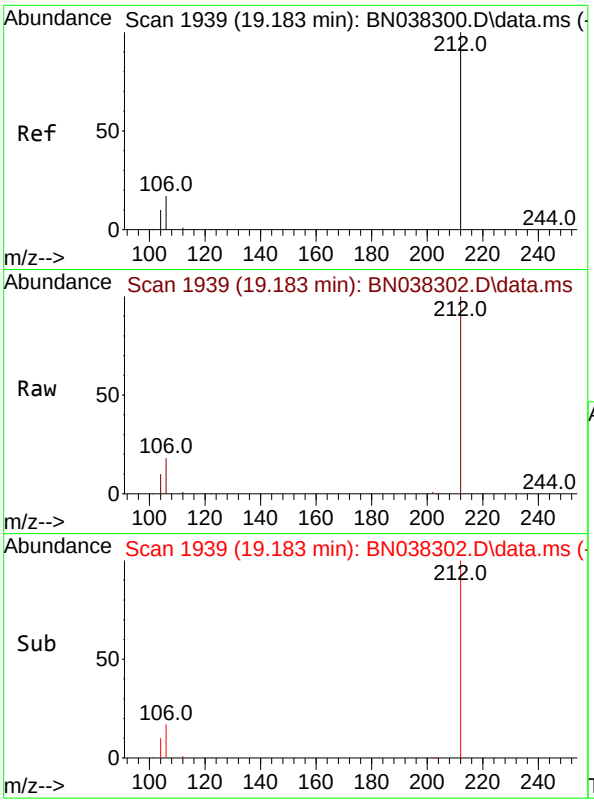


#26
Anthracene
Concen: 1.589 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Tgt Ion:178 Resp: 69628

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.1	22.7
179	15.2	12.0	18.0



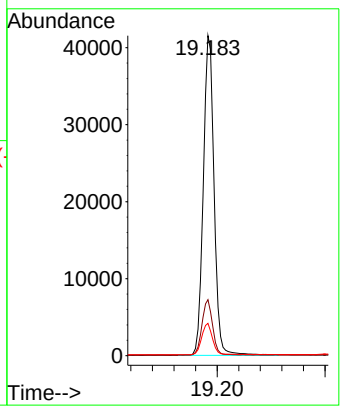


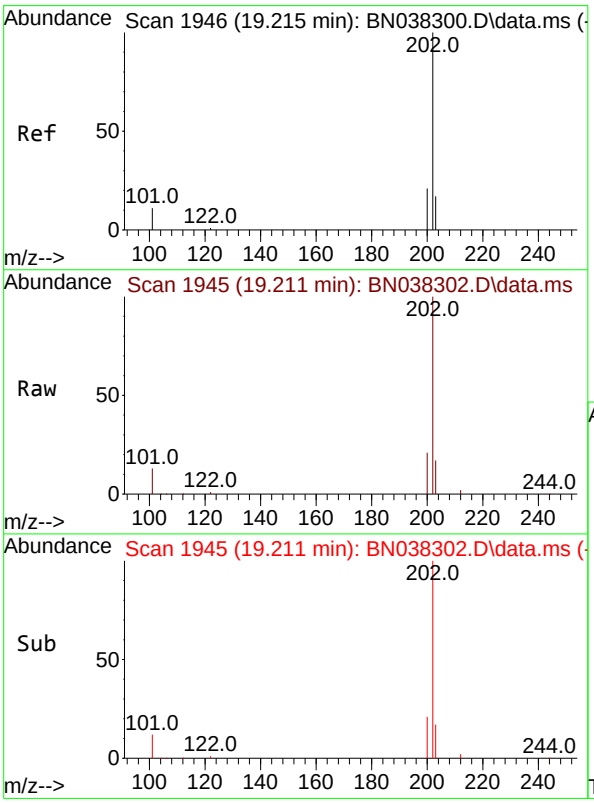
#27
Fluoranthene-d10
Concen: 1.591 ng
RT: 19.183 min Scan# 1
Delta R.T. -0.004 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 57448

Ion	Ratio	Lower	Upper
212	100		
106	17.1	13.7	20.5
104	9.9	7.8	11.8

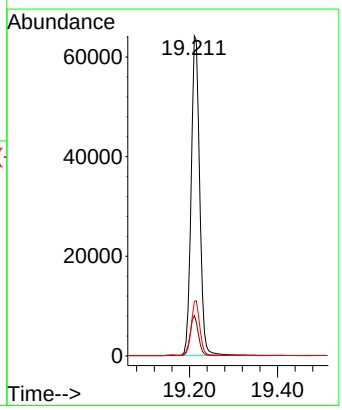


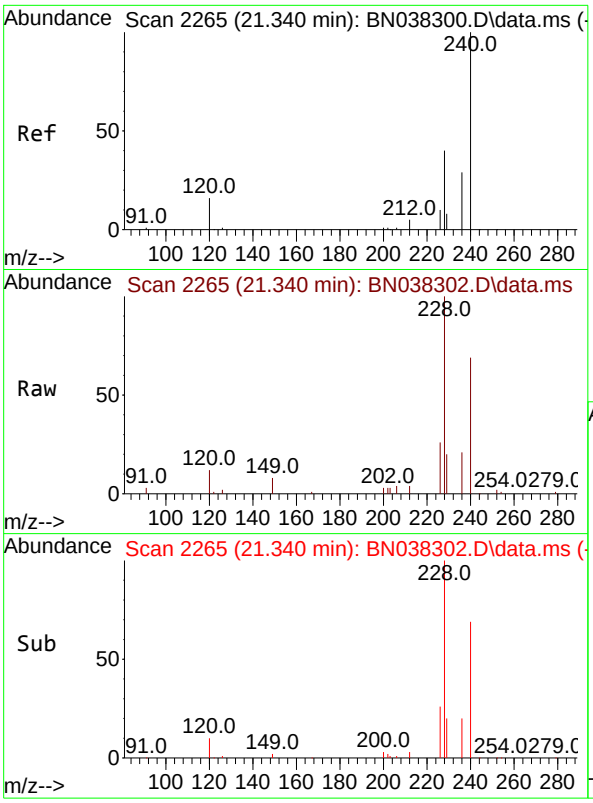


#28
Fluoranthene
Concen: 1.593 ng
RT: 19.211 min Scan# 1945
Delta R.T. -0.009 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Tgt Ion:202 Resp: 86039

Ion	Ratio	Lower	Upper
202	100		
101	12.4	9.6	14.4
203	17.0	13.5	20.3



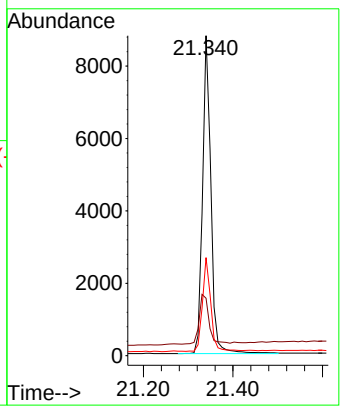


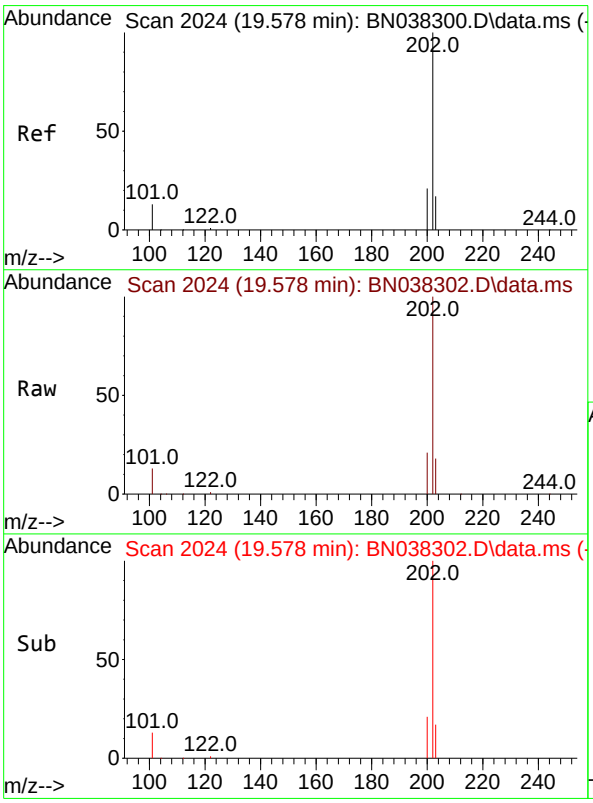
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.340 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 11383

Ion	Ratio	Lower	Upper
240	100		
120	18.0	15.4	23.2
236	30.6	23.9	35.9

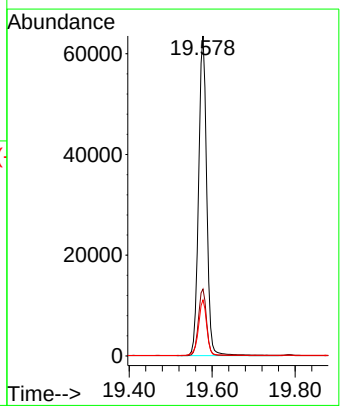


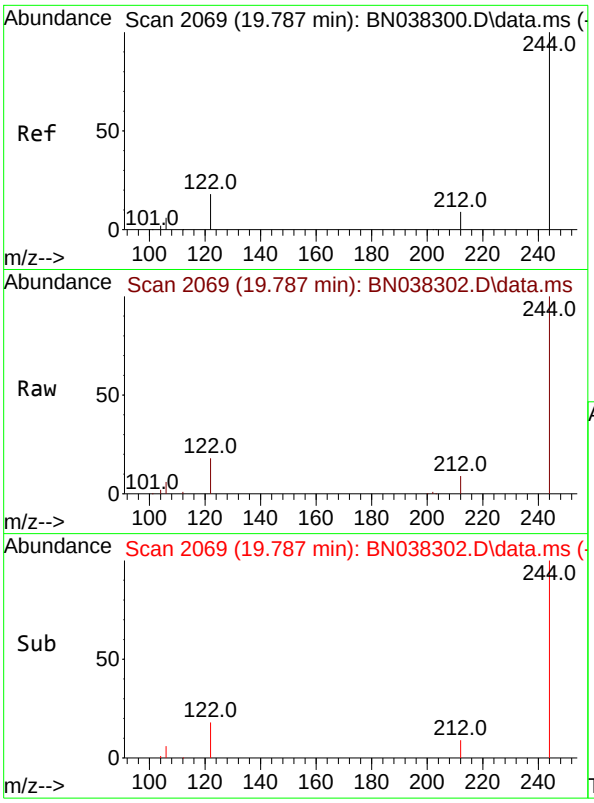


#30
Pyrene
Concen: 1.535 ng
RT: 19.578 min Scan# 2024
Delta R.T. -0.004 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Tgt Ion:202 Resp: 86035

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.8	14.2	21.2



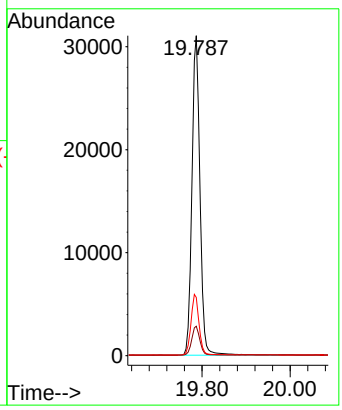


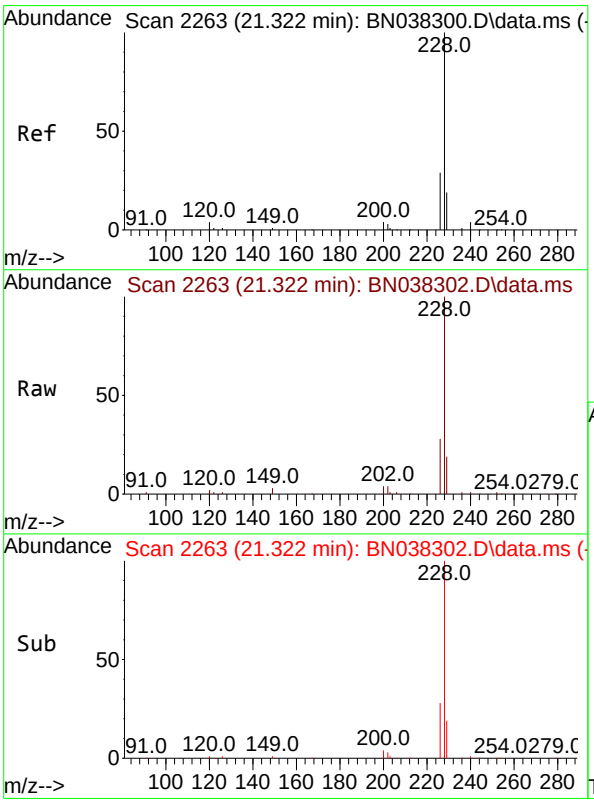
#31
Terphenyl-d14
Concen: 1.547 ng
RT: 19.787 min Scan# 2
Delta R.T. -0.004 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 39298

Ion	Ratio	Lower	Upper
244	100		
212	9.2	7.9	11.9
122	18.2	15.0	22.6

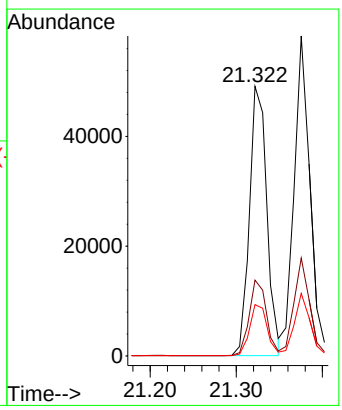


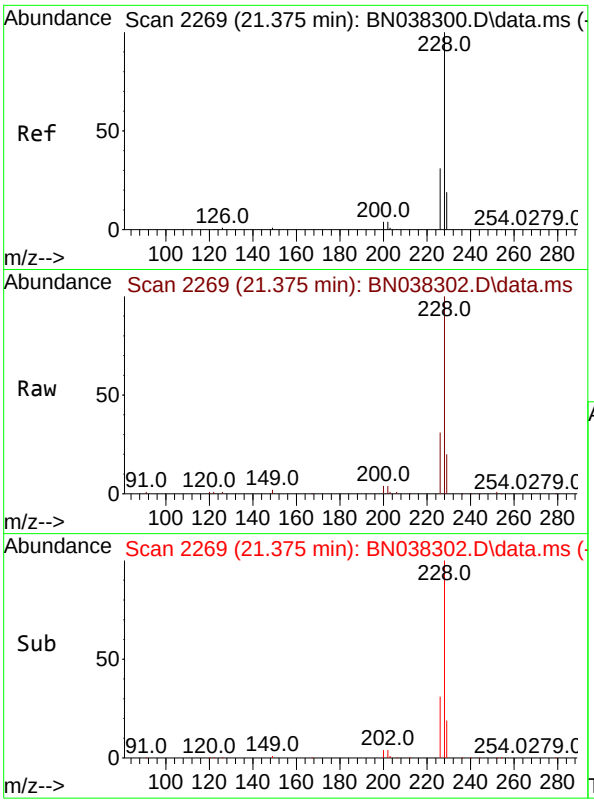


#32
Benzo(a)anthracene
Concen: 1.567 ng
RT: 21.322 min Scan# 2263
Delta R.T. -0.009 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Tgt Ion:228 Resp: 68895

Ion	Ratio	Lower	Upper
228	100		
226	28.1	23.3	34.9
229	19.1	15.7	23.5



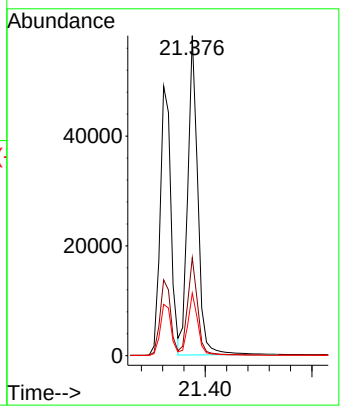


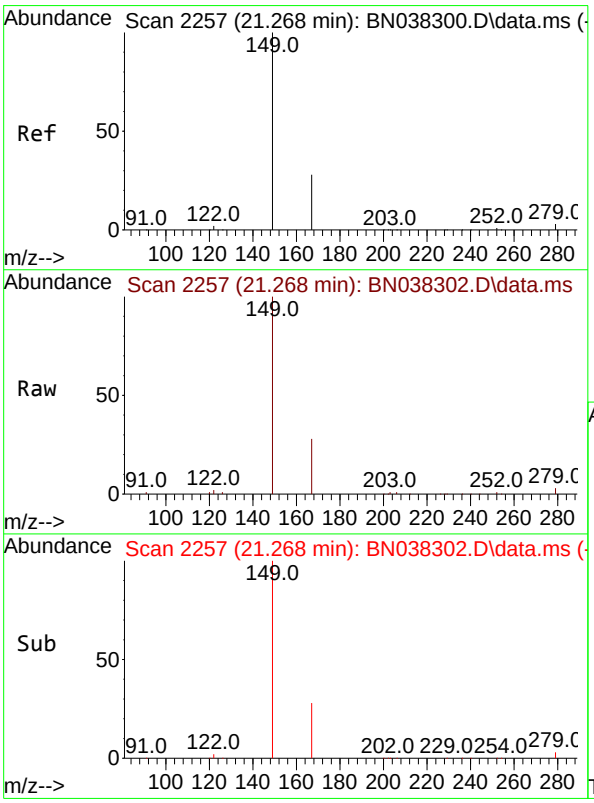
#33
Chrysene
Concen: 1.574 ng
RT: 21.375 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 76200

Ion	Ratio	Lower	Upper
228	100		
226	30.6	25.0	37.4
229	19.6	15.5	23.3

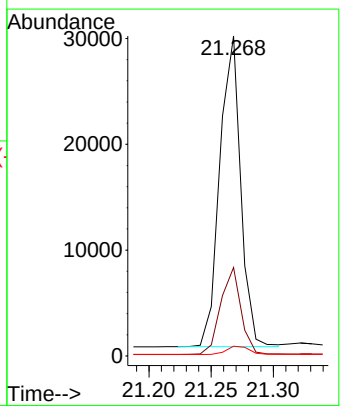


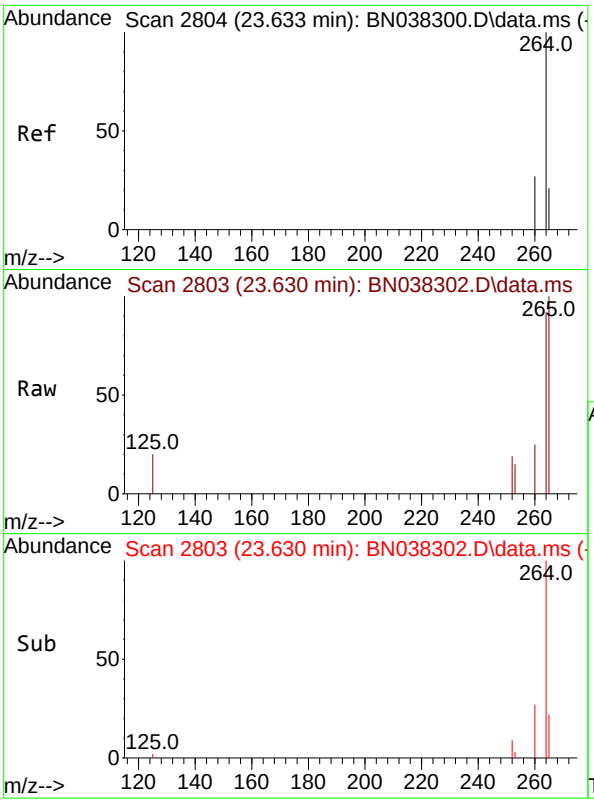


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.423 ng
RT: 21.268 min Scan# 2257
Delta R.T. 0.000 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Tgt Ion:149 Resp: 34320

Ion	Ratio	Lower	Upper
149	100		
167	27.2	21.4	32.0
279	3.0	2.4	3.6



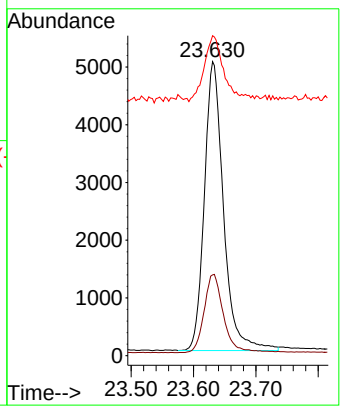


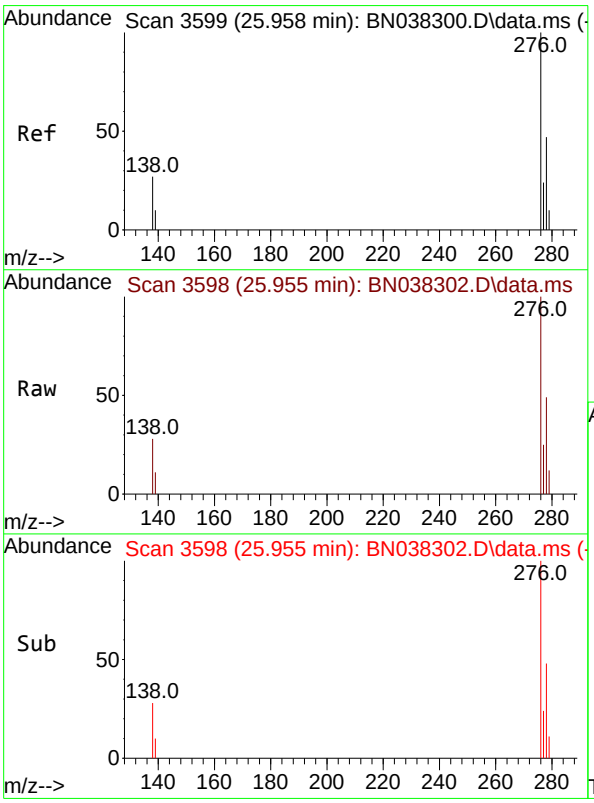
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.630 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 10679

Ion	Ratio	Lower	Upper
264	100		
260	27.5	22.2	33.2
265	108.8	80.2	120.2

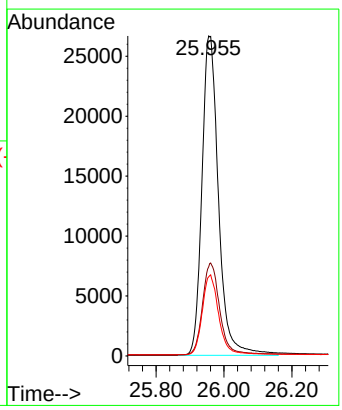


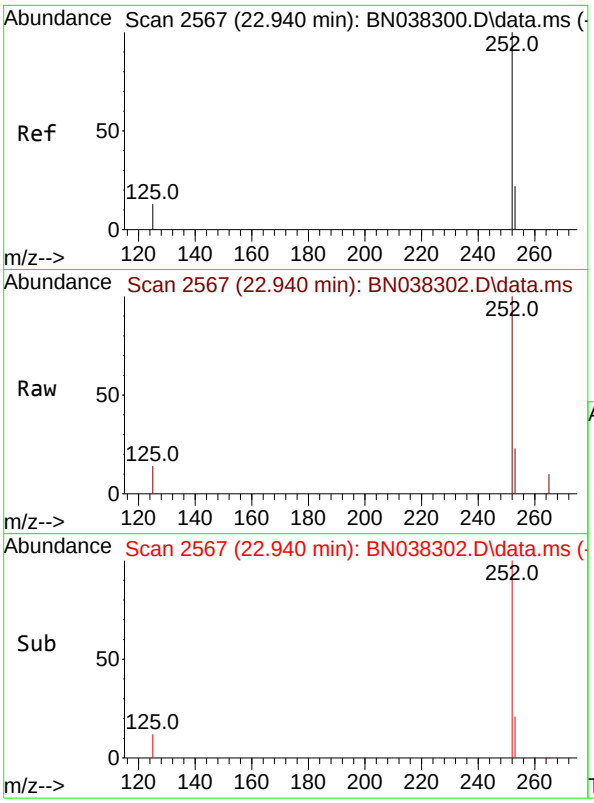


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.595 ng
RT: 25.955 min Scan# 3598
Delta R.T. -0.009 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Tgt Ion:276 Resp: 90364

Ion	Ratio	Lower	Upper
276	100		
138	29.6	23.6	35.4
277	24.6	19.7	29.5



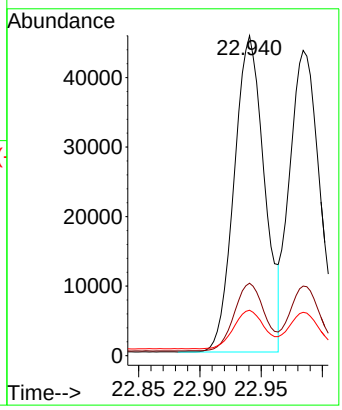


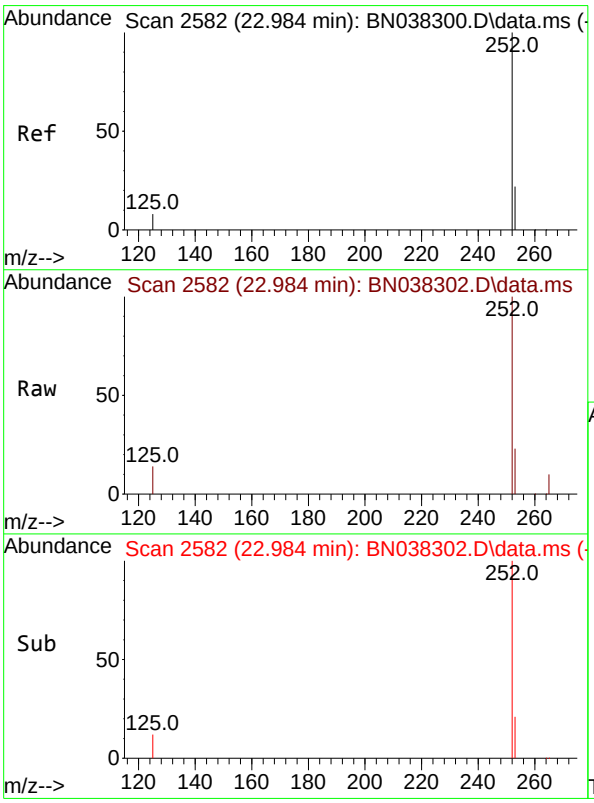
#37
Benzo(b)fluoranthene
Concen: 1.591 ng
RT: 22.940 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 78044

Ion	Ratio	Lower	Upper
252	100		
253	22.7	21.1	31.7
125	14.2	16.4	24.6#

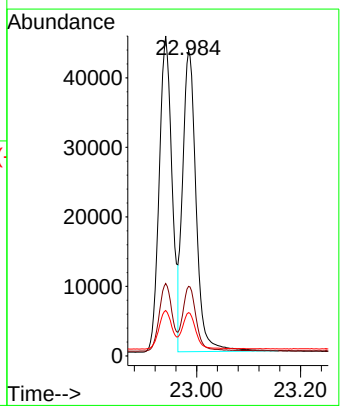


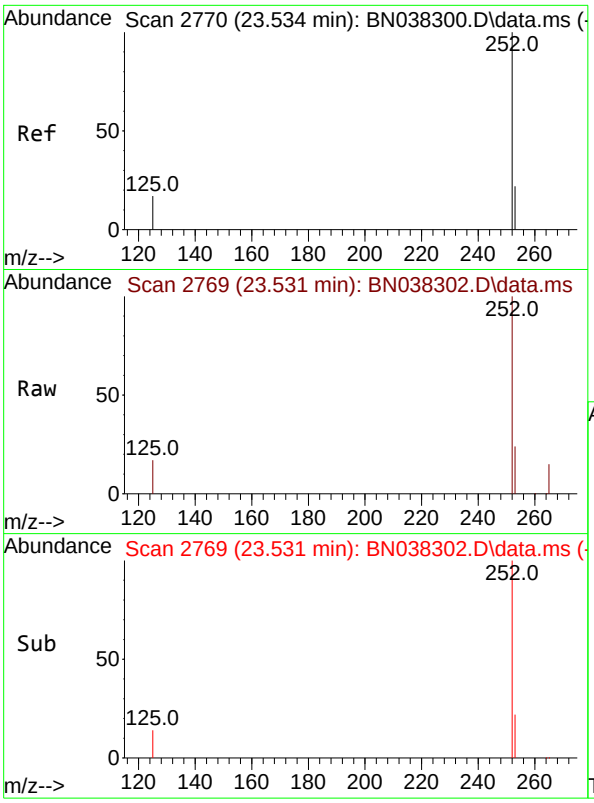


#38
Benzo(k)fluoranthene
Concen: 1.593 ng
RT: 22.984 min Scan# 2582
Delta R.T. -0.006 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Tgt Ion:252 Resp: 77879

Ion	Ratio	Lower	Upper
252	100		
253	22.8	21.4	32.0
125	14.2	16.2	24.2#



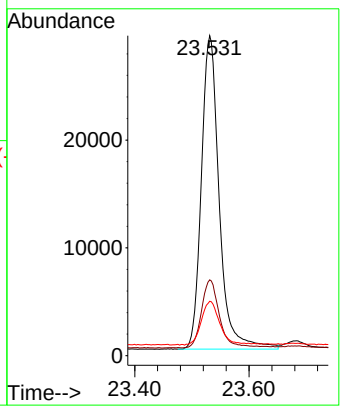


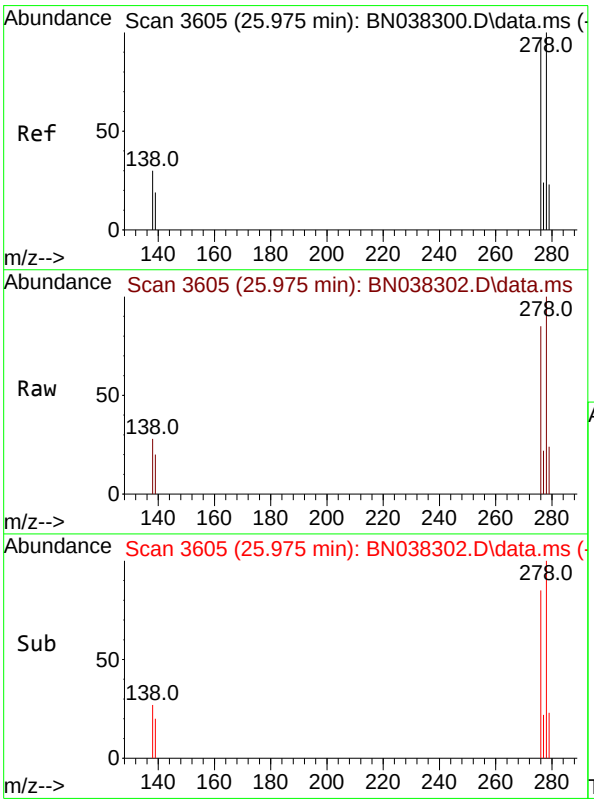
#39
Benzo(a)pyrene
Concen: 1.574 ng
RT: 23.531 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 63182

Ion	Ratio	Lower	Upper
252	100		
253	23.7	23.3	34.9
125	17.0	22.4	33.6#

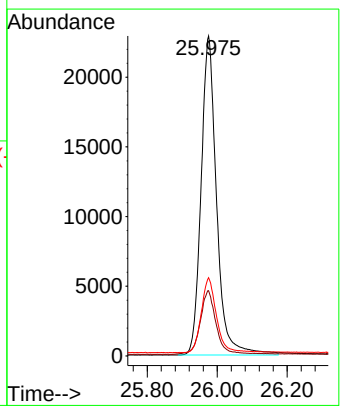


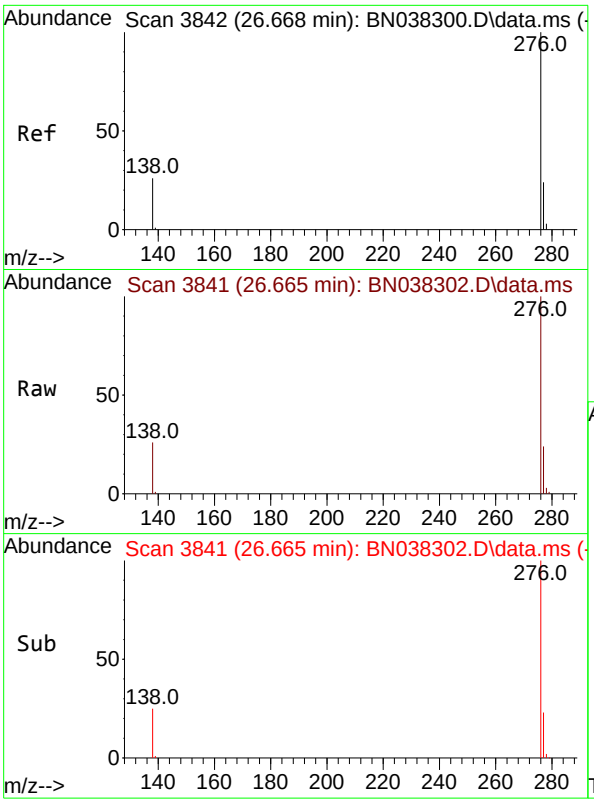


#40
Dibenzo(a,h)anthracene
Concen: 1.614 ng
RT: 25.975 min Scan# 3605
Delta R.T. -0.006 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Tgt Ion:278 Resp: 70529

Ion	Ratio	Lower	Upper
278	100		
139	20.4	17.8	26.8
279	24.5	21.3	31.9



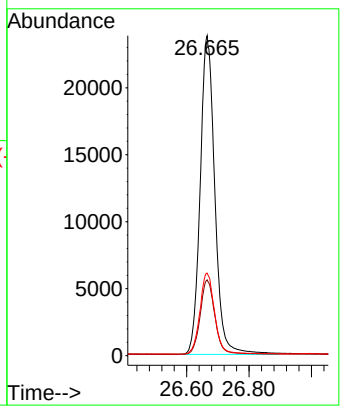


#41
Benzo(g,h,i)perylene
Concen: 1.590 ng
RT: 26.665 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN038302.D
Acq: 10 Dec 2025 12:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 77643

Ion	Ratio	Lower	Upper
276	100		
277	23.7	20.0	30.0
138	25.8	21.8	32.6



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121025\
Data File : BN038303.D
Acq On : 10 Dec 2025 12:53
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Dec 10 14:00:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	6243	0.400	ng		0.00
7) Naphthalene-d8	10.519	136	16175	0.400	ng		#-0.01
13) Acenaphthene-d10	14.388	164	8192	0.400	ng		-0.01
19) Phenanthrene-d10	17.148	188	14208	0.400	ng		0.00
29) Chrysene-d12	21.340	240	11022	0.400	ng		0.00
35) Perylene-d12	23.633	264	9816	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	50921	3.275	ng		0.00
5) Phenol-d6	6.887	99	63079	3.413	ng		0.00
8) Nitrobenzene-d5	8.875	82	46345	3.397	ng		0.00
11) 2-Methylnaphthalene-d10	12.126	152	77323	3.389	ng		0.00
14) 2,4,6-Tribromophenol	15.895	330	12871	3.541	ng		0.00
15) 2-Fluorobiphenyl	13.008	172	134089	3.398	ng		0.00
27) Fluoranthene-d10	19.183	212	118814	3.381	ng		0.00
31) Terphenyl-d14	19.787	244	78759	3.202	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.196	88	22789	3.184	ng		99
3) n-Nitrosodimethylamine	3.499	42	29418	3.278	ng	#	96
6) bis(2-Chloroethyl)ether	7.147	93	58758	3.250	ng		98
9) Naphthalene	10.573	128	159268	3.331	ng		98
10) Hexachlorobutadiene	10.872	225	27470	3.232	ng	#	99
12) 2-Methylnaphthalene	12.197	142	102695	3.384	ng		99
16) Acenaphthylene	14.110	152	139550	3.469	ng		100
17) Acenaphthene	14.452	154	95652	3.413	ng		97
18) Fluorene	15.446	166	121052	3.357	ng		99
20) 4,6-Dinitro-2-methylph...	15.522	198	9649	4.128	ng	#	43
21) 4-Bromophenyl-phenylether	16.342	248	35254	3.344	ng		95
22) Hexachlorobenzene	16.453	284	40638	3.207	ng		99
23) Atrazine	16.615	200	25071	3.487	ng		97
24) Pentachlorophenol	16.801	266	17764	3.592	ng		99
25) Phenanthrene	17.186	178	163576	3.308	ng		100
26) Anthracene	17.273	178	148322	3.479	ng		100
28) Fluoranthene	19.215	202	177518	3.377	ng		99
30) Pyrene	19.578	202	178334	3.287	ng		100
32) Benzo(a)anthracene	21.322	228	144401	3.391	ng		99
33) Chrysene	21.375	228	153835	3.281	ng		100
34) Bis(2-ethylhexyl)phtha...	21.268	149	73028	3.126	ng		100
36) Indeno(1,2,3-cd)pyrene	25.963	276	182271	3.499	ng		99
37) Benzo(b)fluoranthene	22.940	252	155996	3.460	ng	#	88
38) Benzo(k)fluoranthene	22.987	252	157545	3.505	ng	#	88
39) Benzo(a)pyrene	23.534	252	128763	3.490	ng	#	82
40) Dibenzo(a,h)anthracene	25.978	278	143161	3.565	ng		95
41) Benzo(g,h,i)perylene	26.668	276	154373	3.439	ng		98

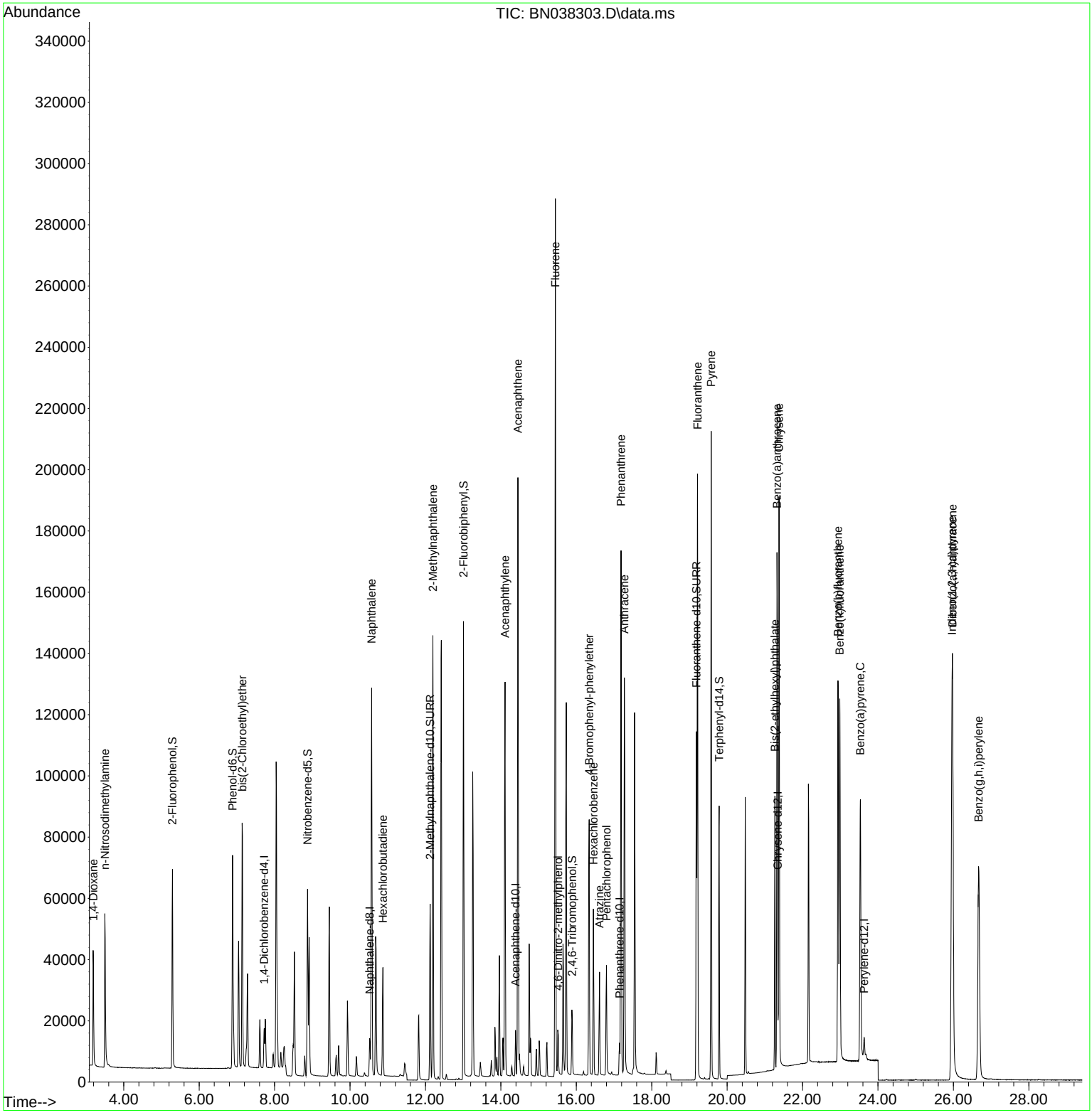
(#) = qualifier out of range (m) = manual integration (+) = signals summed

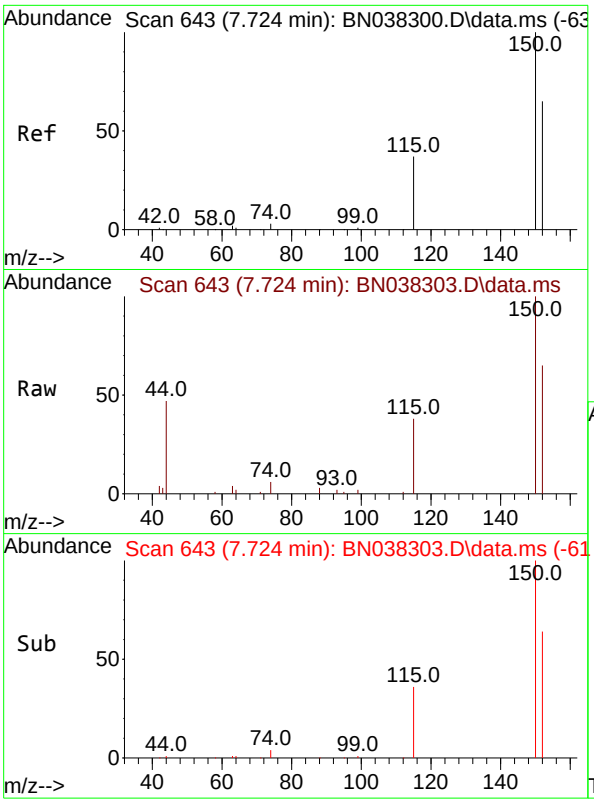
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121025\
Data File : BN038303.D
Acq On : 10 Dec 2025 12:53
Operator : RC/JU
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Dec 10 14:00:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration



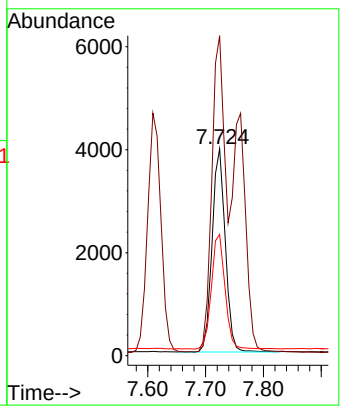


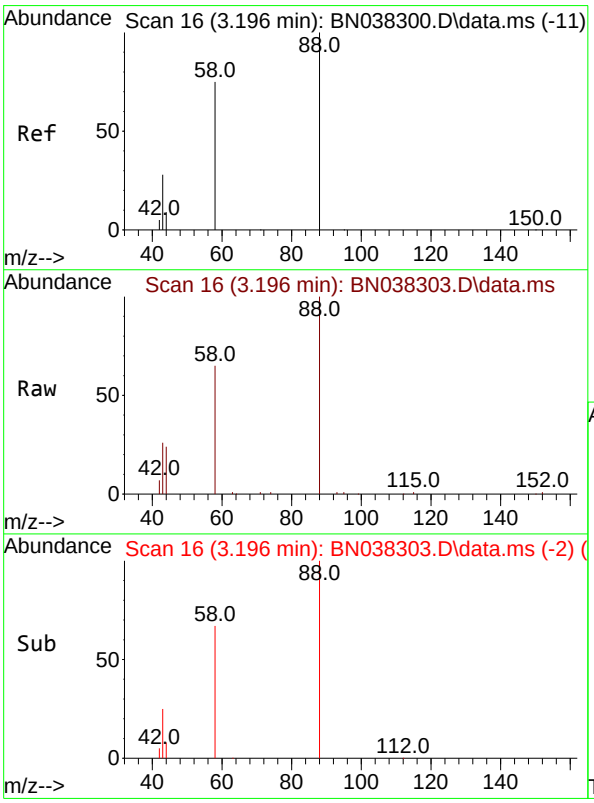
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 6243

Ion	Ratio	Lower	Upper
152	100		
150	154.7	122.4	183.6
115	58.6	47.3	70.9

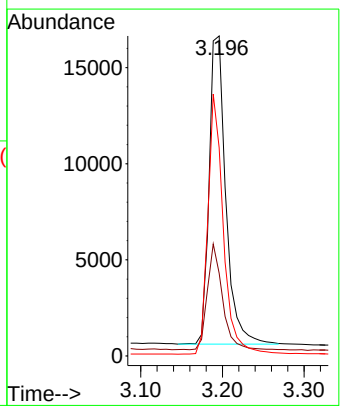


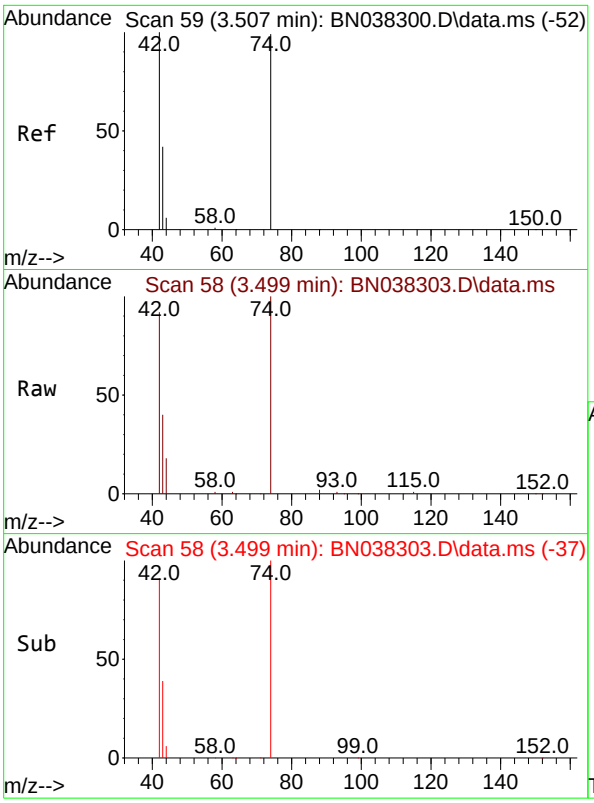


#2
1,4-Dioxane
Concen: 3.184 ng
RT: 3.196 min Scan# 16
Delta R.T. -0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Tgt Ion: 88 Resp: 22789

Ion	Ratio	Lower	Upper
88	100		
43	30.8	24.9	37.3
58	78.0	61.4	92.0



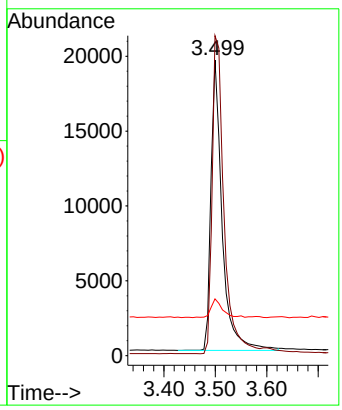


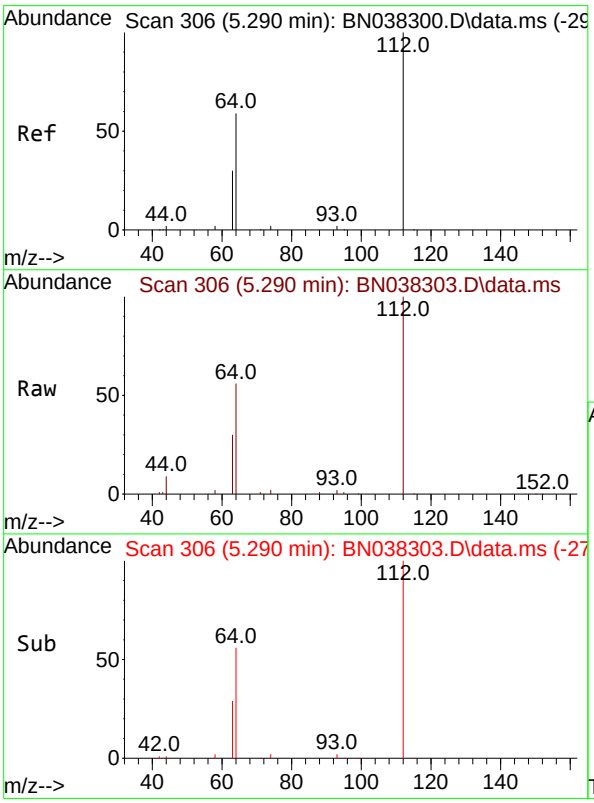
#3
n-Nitrosodimethylamine
Concen: 3.278 ng
RT: 3.499 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 29418

Ion	Ratio	Lower	Upper
42	100		
74	115.5	95.3	142.9
44	6.8	7.9	11.9#

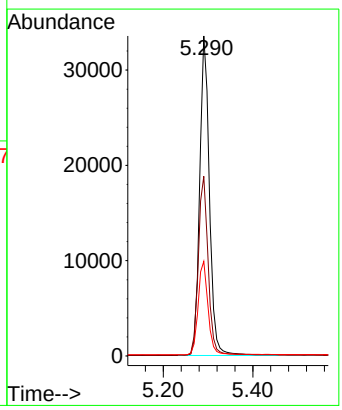


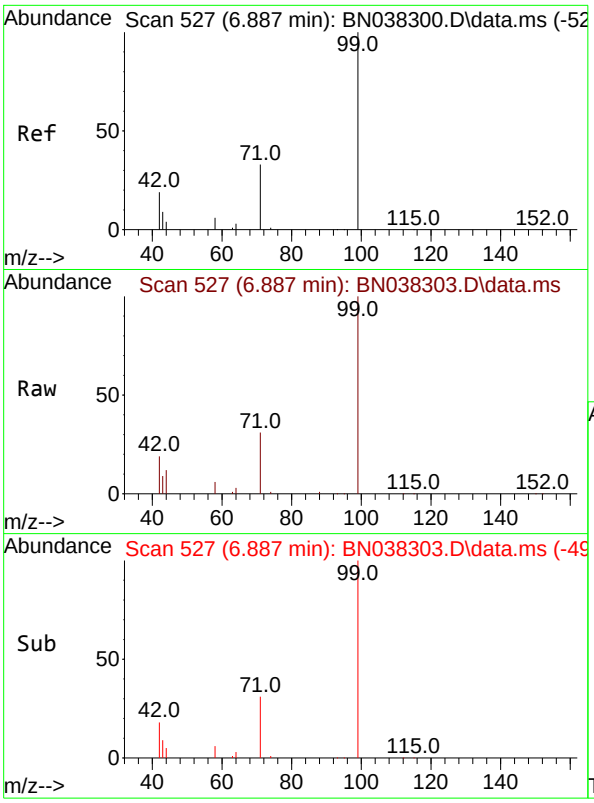


#4
2-Fluorophenol
Concen: 3.275 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Tgt Ion:112 Resp: 50921

Ion	Ratio	Lower	Upper
112	100		
64	56.7	44.4	66.6
63	29.7	23.4	35.0



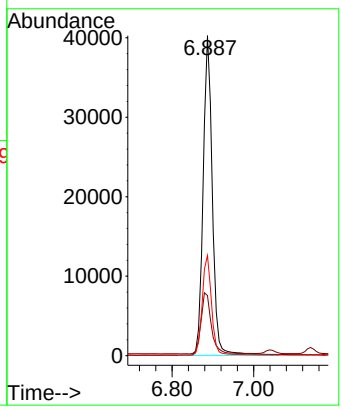


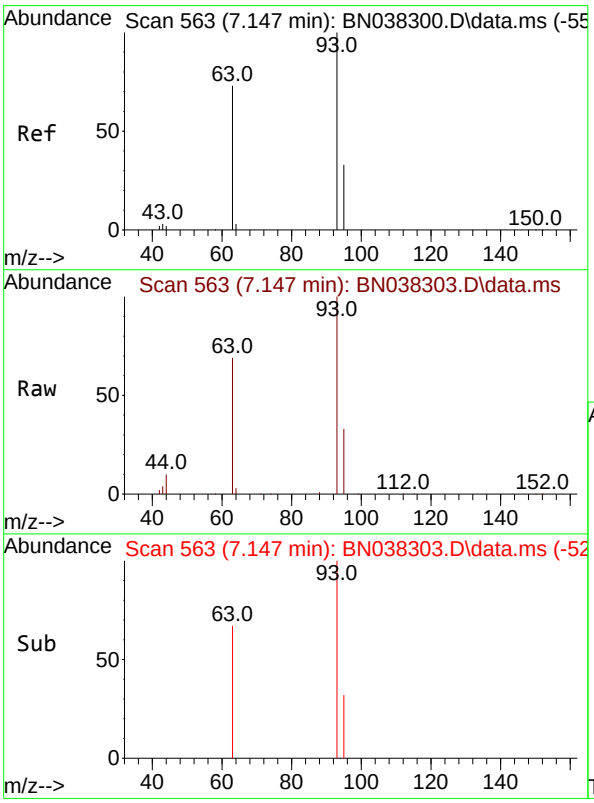
#5
Phenol-d6
Concen: 3.413 ng
RT: 6.887 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 63079

Ion	Ratio	Lower	Upper
99	100		
42	21.3	16.5	24.7
71	31.7	24.9	37.3

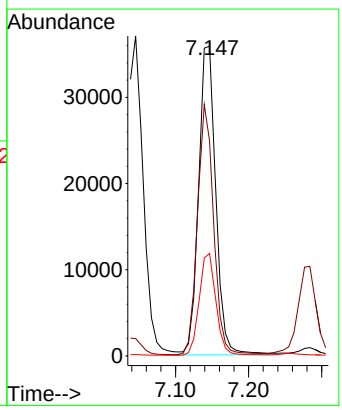


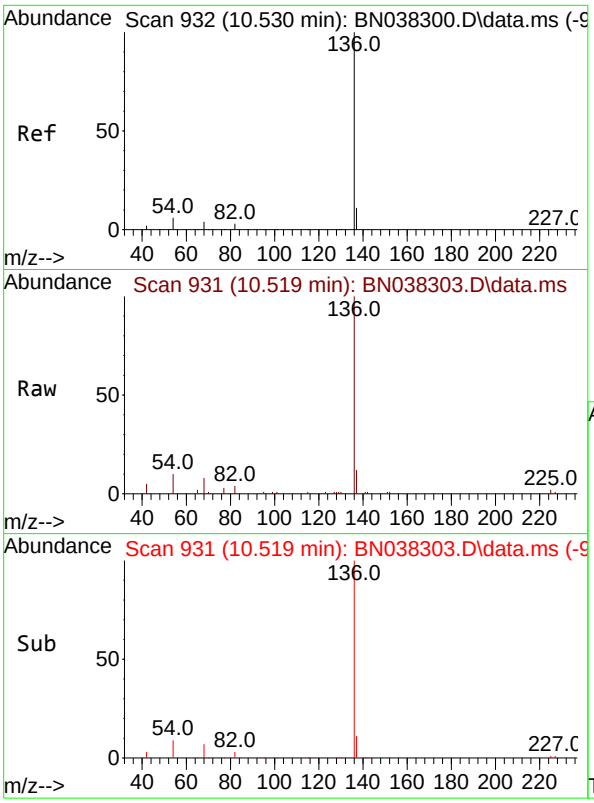


#6
bis(2-Chloroethyl)ether
Concen: 3.250 ng
RT: 7.147 min Scan# 563
Delta R.T. 0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Tgt Ion: 93 Resp: 58758

Ion	Ratio	Lower	Upper
93	100		
63	75.7	59.2	88.8
95	32.0	25.2	37.8



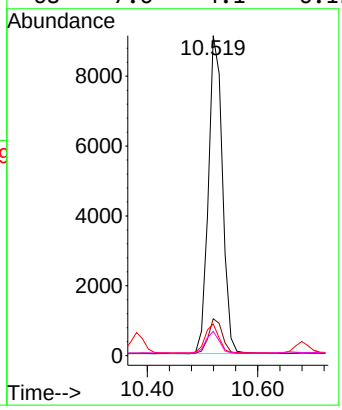


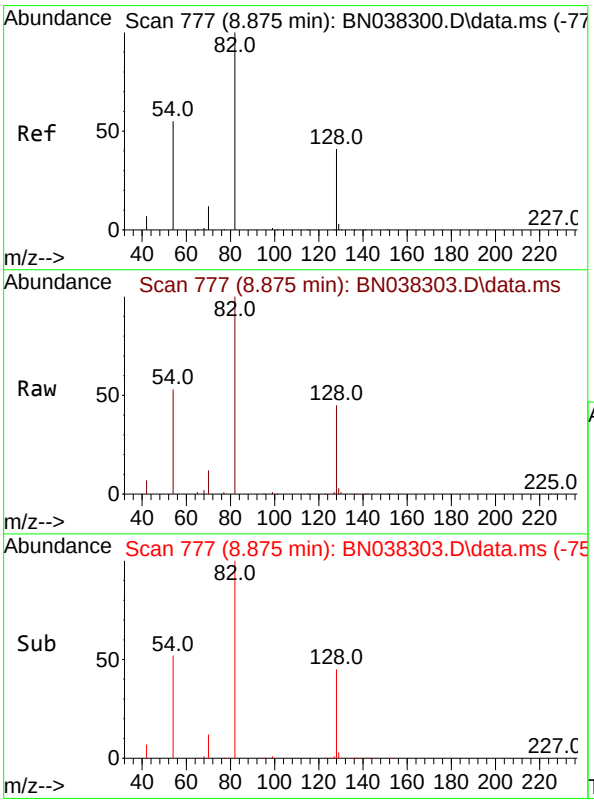
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.519 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 16175

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	9.9	5.2	7.8#
68	7.6	4.1	6.1#

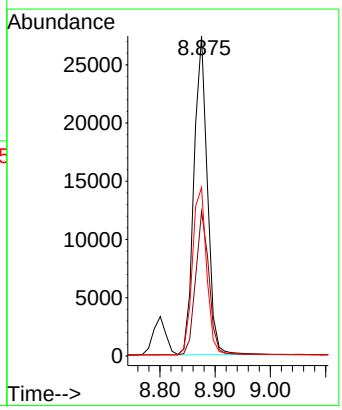


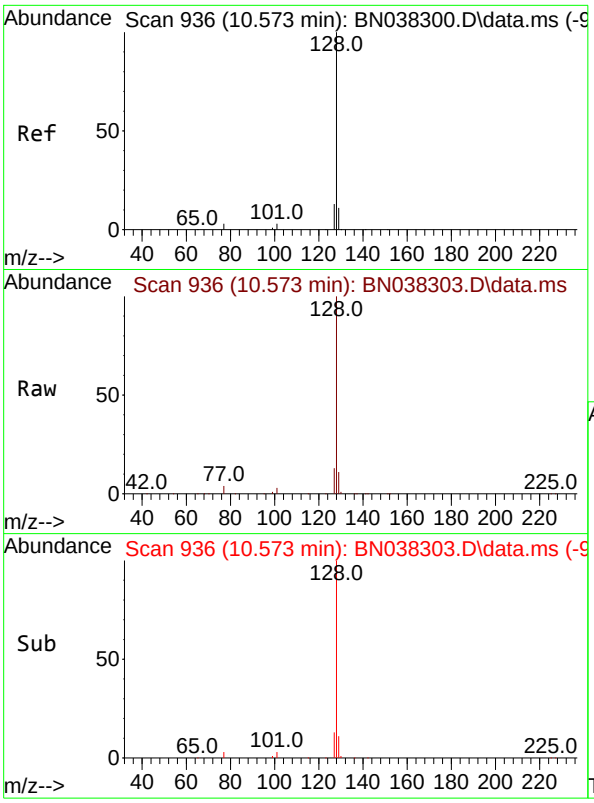


#8
Nitrobenzene-d5
Concen: 3.397 ng
RT: 8.875 min Scan# 777
Delta R.T. -0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Tgt Ion: 82 Resp: 46345

Ion	Ratio	Lower	Upper
82	100		
128	45.2	34.0	51.0
54	52.6	44.4	66.6



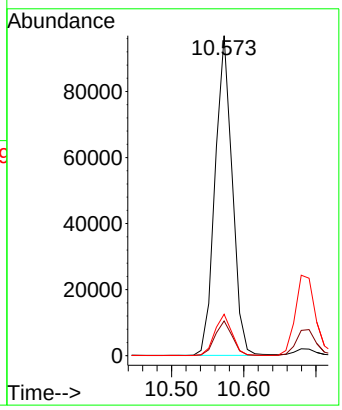


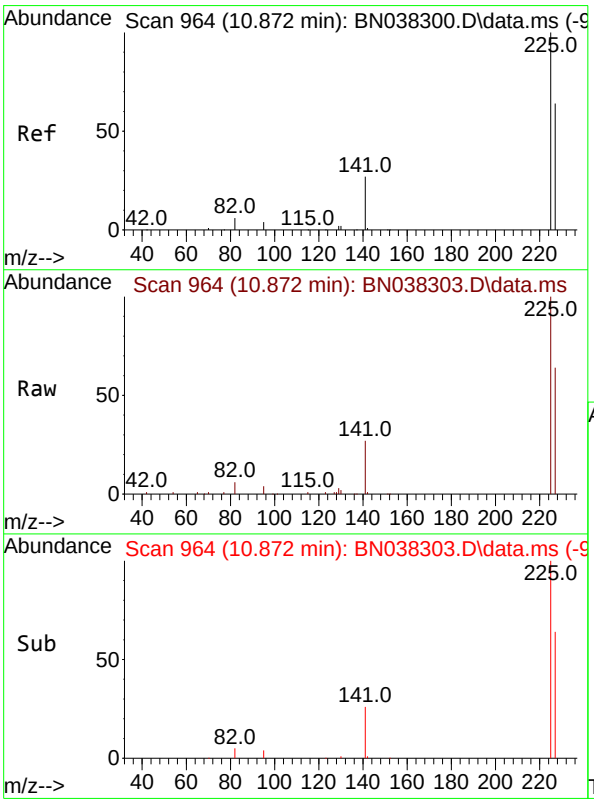
#9
Naphthalene
Concen: 3.331 ng
RT: 10.573 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 159268

Ion	Ratio	Lower	Upper
128	100		
129	10.8	9.1	13.7
127	13.0	10.9	16.3

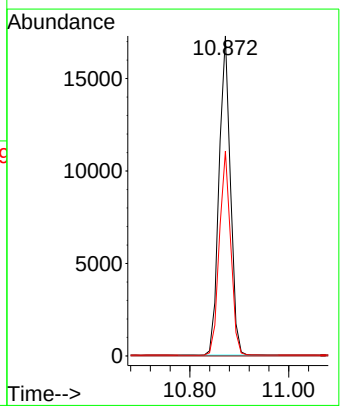


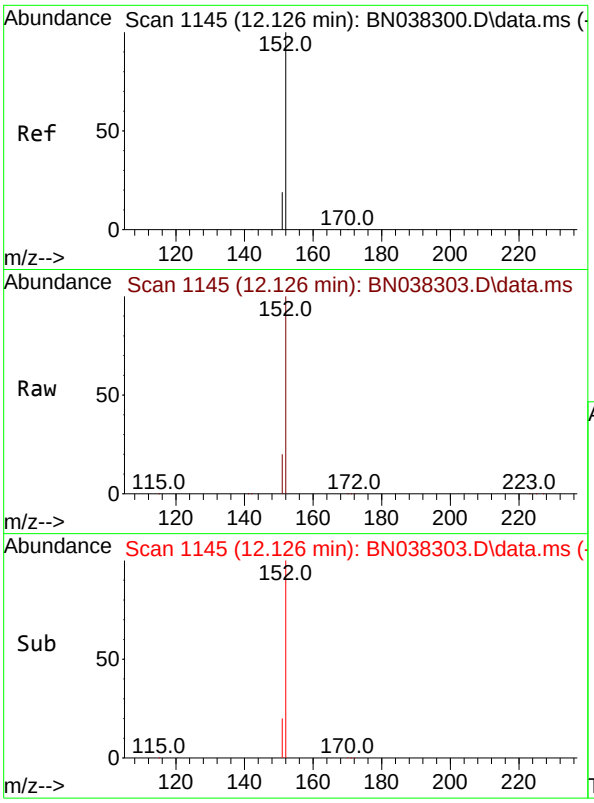


#10
Hexachlorobutadiene
Concen: 3.232 ng
RT: 10.872 min Scan# 964
Delta R.T. 0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Tgt Ion:225 Resp: 27470

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.6	51.2	76.8



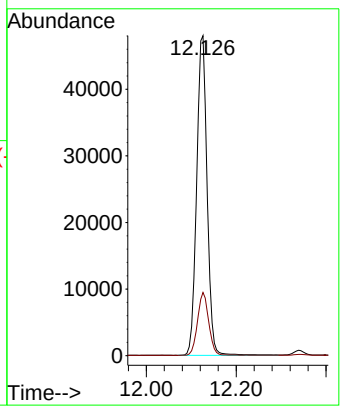


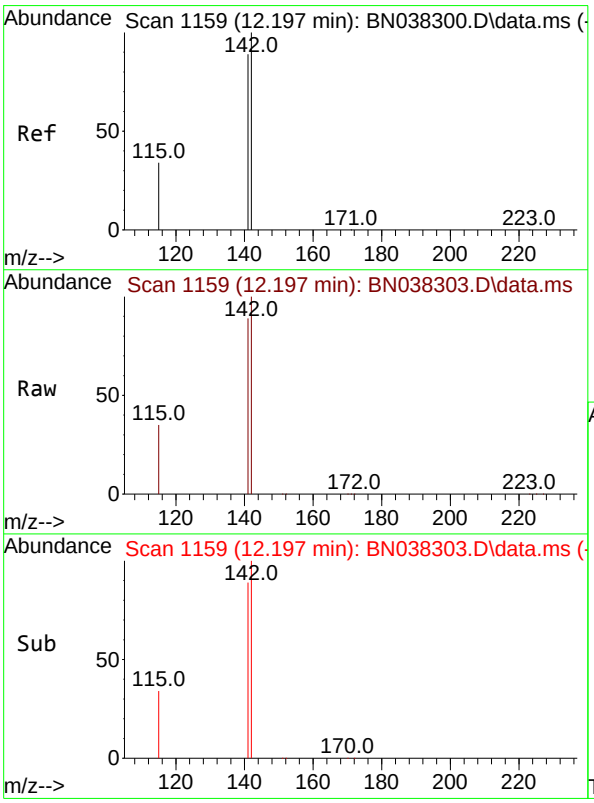
#11
2-Methylnaphthalene-d10
Concen: 3.389 ng
RT: 12.126 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 77323

Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6

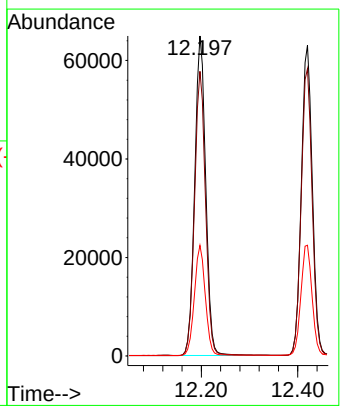


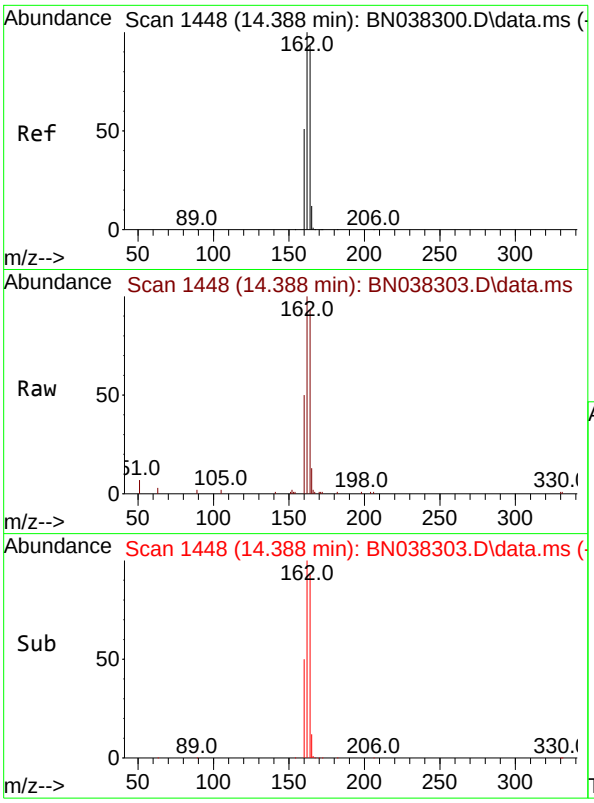


#12
2-Methylnaphthalene
Concen: 3.384 ng
RT: 12.197 min Scan# 1159
Delta R.T. -0.005 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Tgt Ion:142 Resp: 102695

Ion	Ratio	Lower	Upper
142	100		
141	88.9	71.4	107.2
115	34.6	28.4	42.6



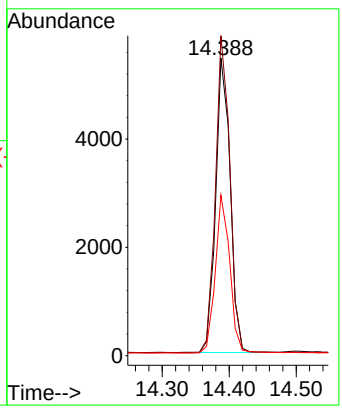


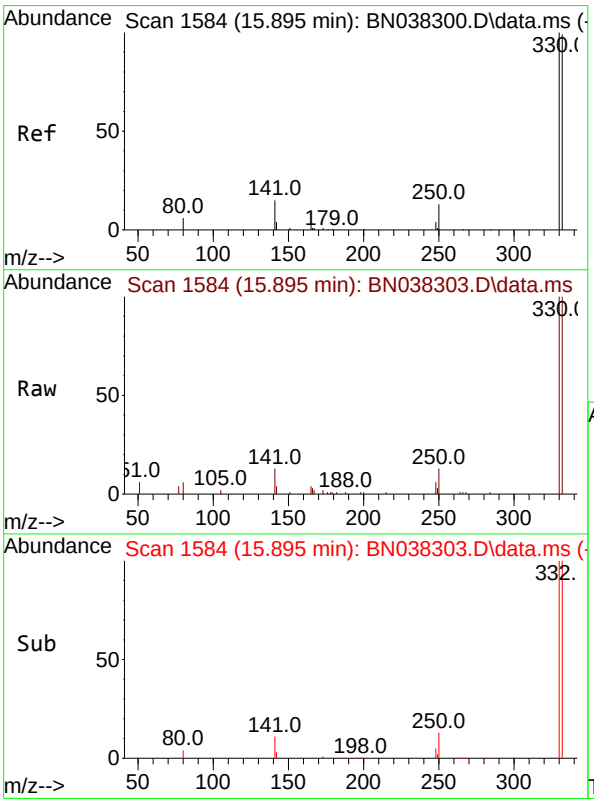
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.388 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 8192

Ion	Ratio	Lower	Upper
164	100		
162	107.5	86.2	129.4
160	53.9	44.6	67.0

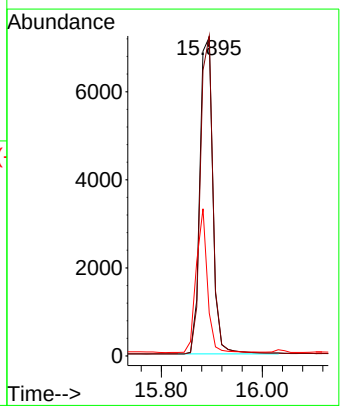


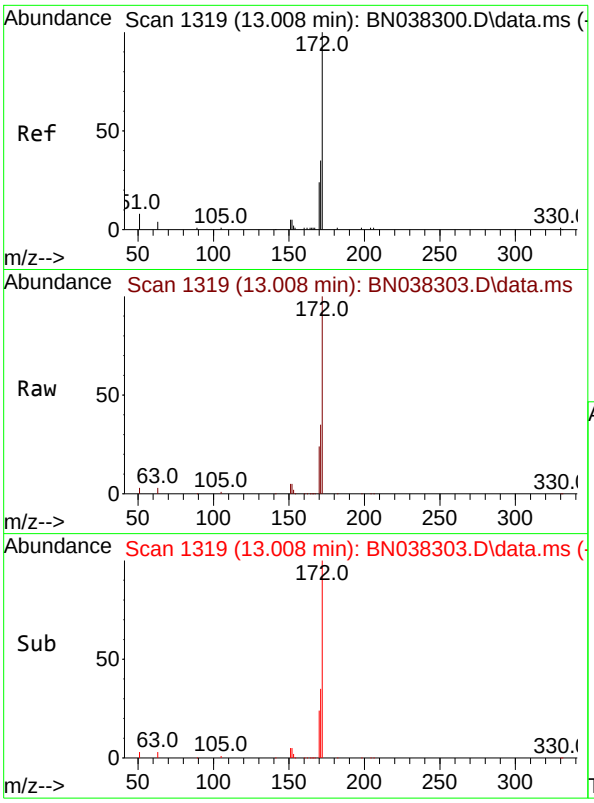


#14
2,4,6-Tribromophenol
Concen: 3.541 ng
RT: 15.895 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Tgt Ion:330 Resp: 12871

Ion	Ratio	Lower	Upper
330	100		
332	96.9	75.8	113.6
141	39.1	31.8	47.8



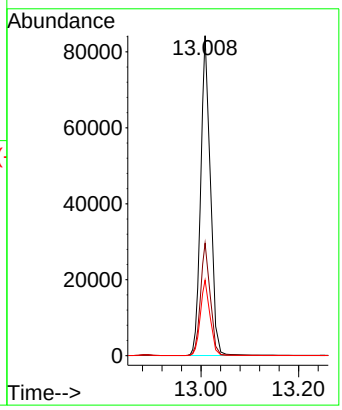


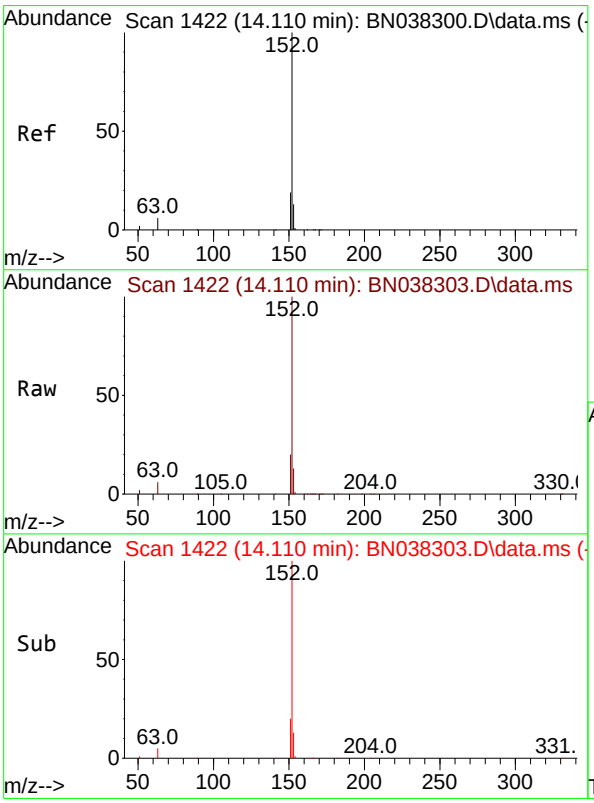
#15
2-Fluorobiphenyl
Concen: 3.398 ng
RT: 13.008 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 134089

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.6	42.8
170	23.6	19.3	28.9

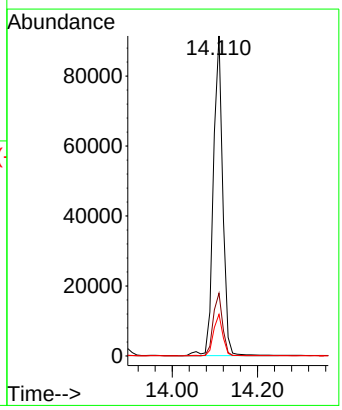


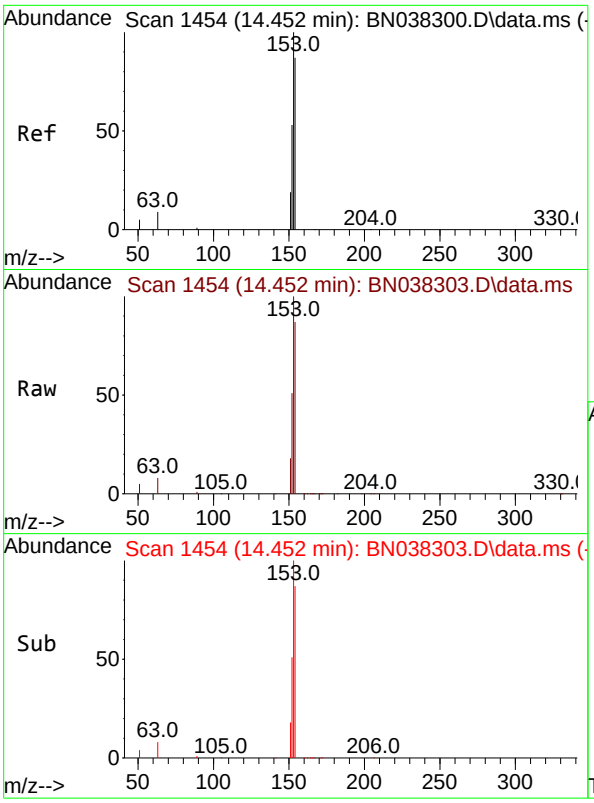


#16
Acenaphthylene
Concen: 3.469 ng
RT: 14.110 min Scan# 1422
Delta R.T. -0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Tgt Ion:152 Resp: 139550

Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.4	23.2
153	12.9	10.2	15.4



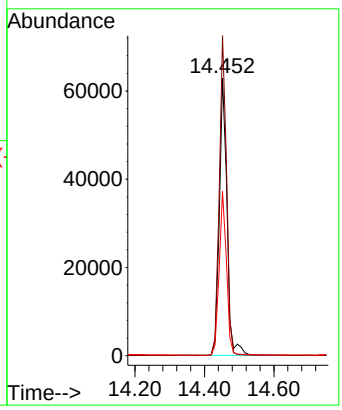


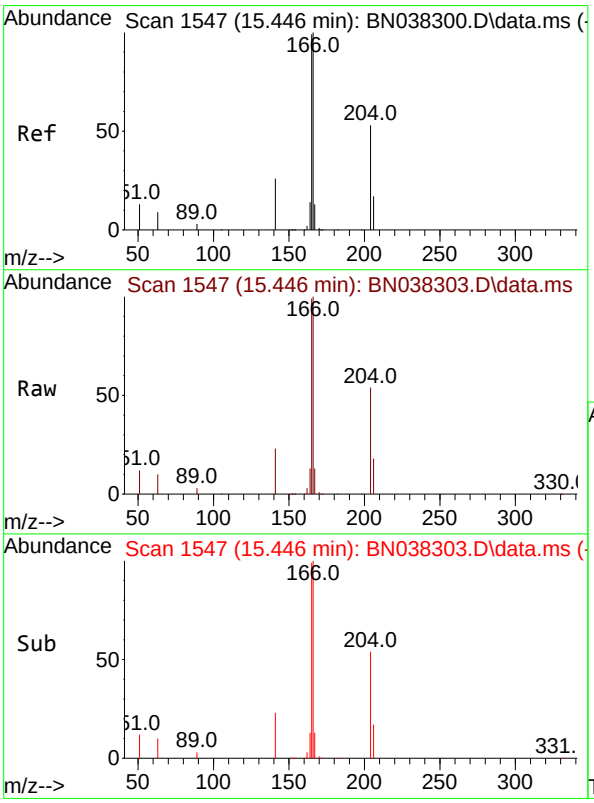
#17
Acenaphthene
Concen: 3.413 ng
RT: 14.452 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 95652

Ion	Ratio	Lower	Upper
154	100		
153	109.5	89.8	134.8
152	56.6	47.5	71.3

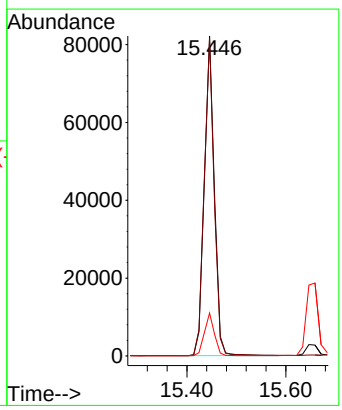


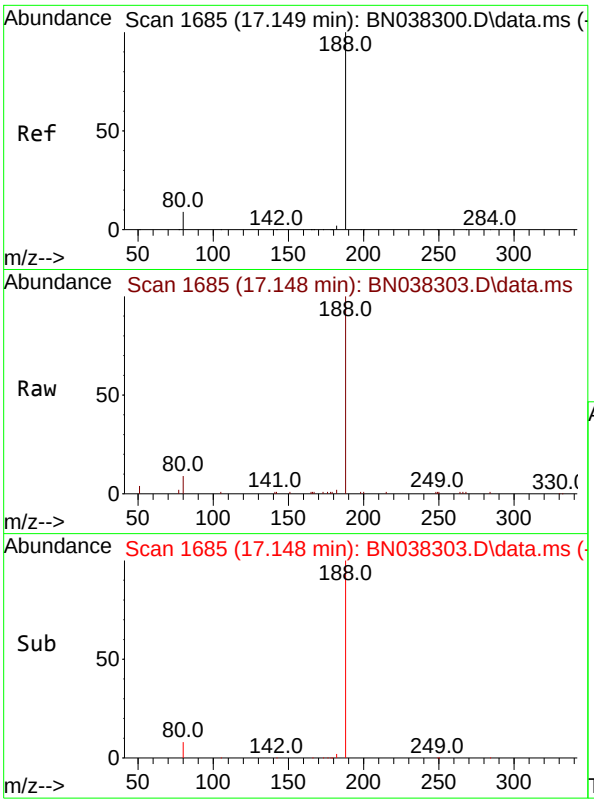


#18
Fluorene
Concen: 3.357 ng
RT: 15.446 min Scan# 1547
Delta R.T. -0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Tgt Ion:166 Resp: 121052

Ion	Ratio	Lower	Upper
166	100		
165	99.0	80.2	120.4
167	13.1	10.6	16.0



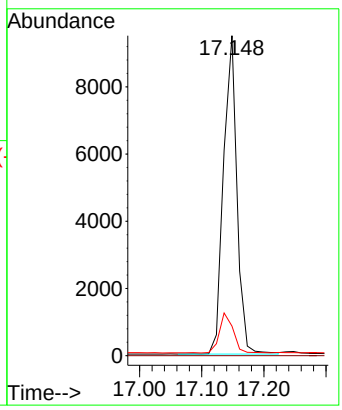


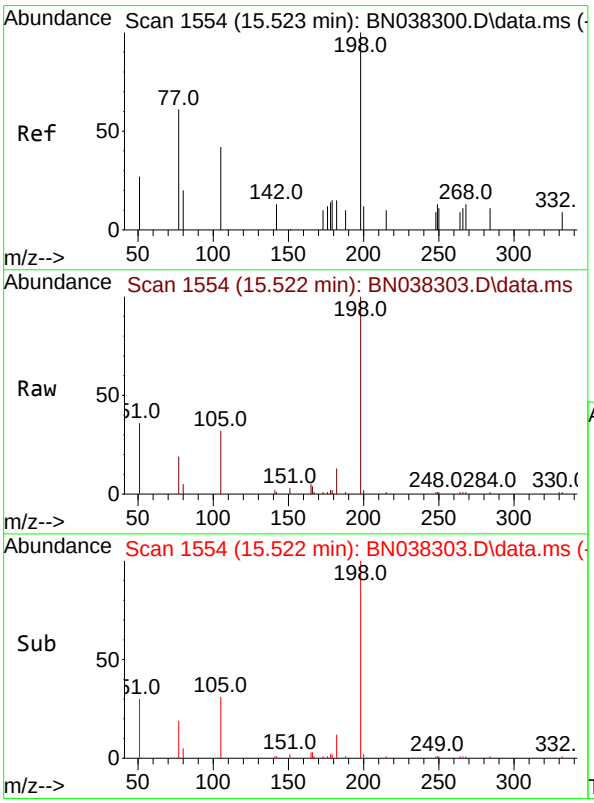
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.148 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 14208

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.2	7.4	11.0

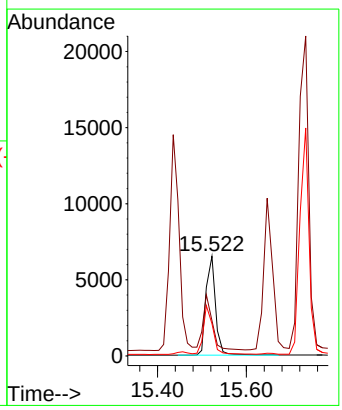


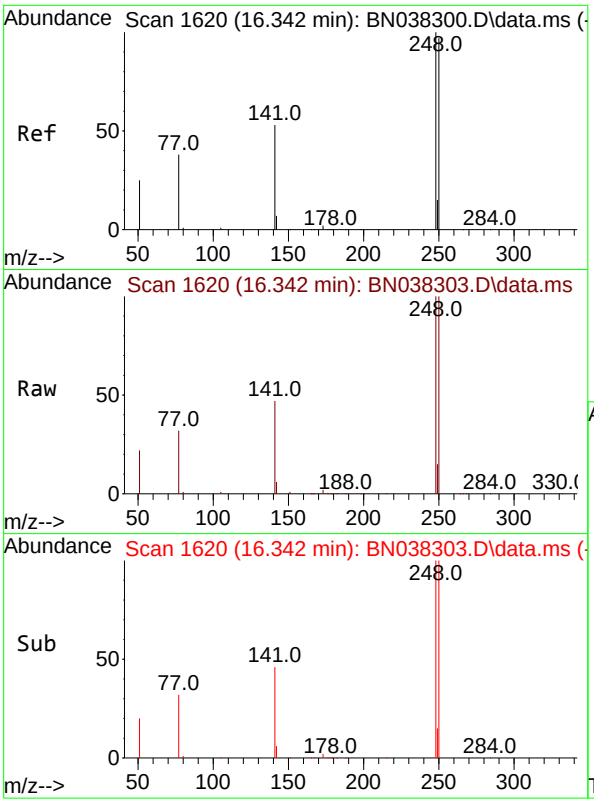


#20
4,6-Dinitro-2-methylphenol
Concen: 4.128 ng
RT: 15.522 min Scan# 1554
Delta R.T. 0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Tgt Ion:198 Resp: 9649

Ion	Ratio	Lower	Upper
198	100		
51	35.5	86.3	129.5#
105	32.4	45.3	67.9#



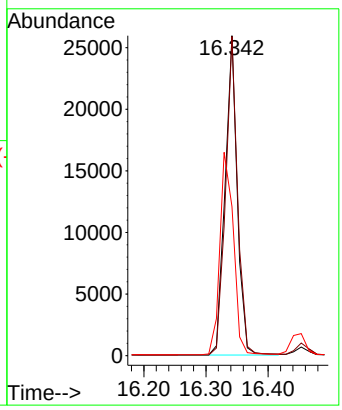


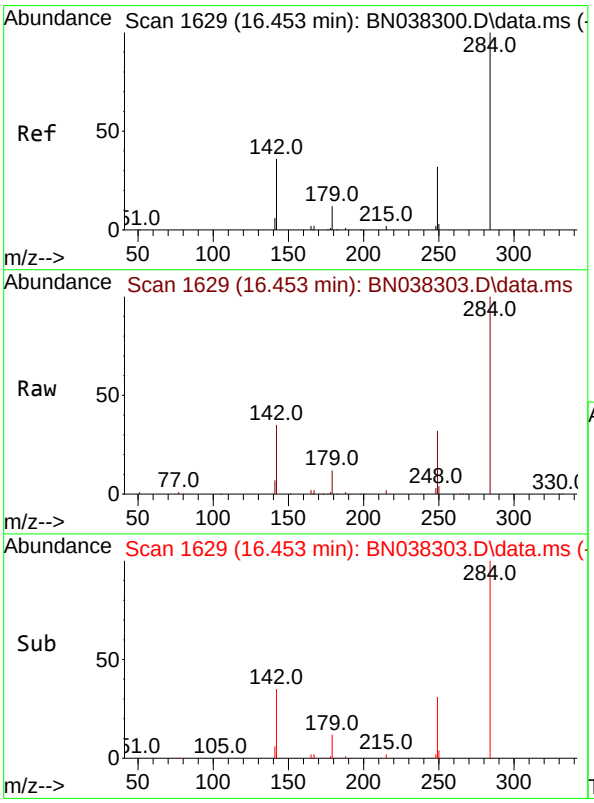
#21
4-Bromophenyl-phenylether
Concen: 3.344 ng
RT: 16.342 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:248 Resp: 35254

Ion	Ratio	Lower	Upper
248	100		
250	99.8	78.2	117.2
141	46.6	43.7	65.5

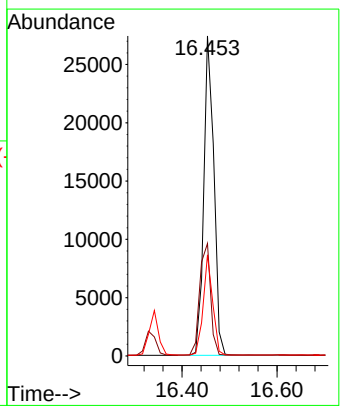


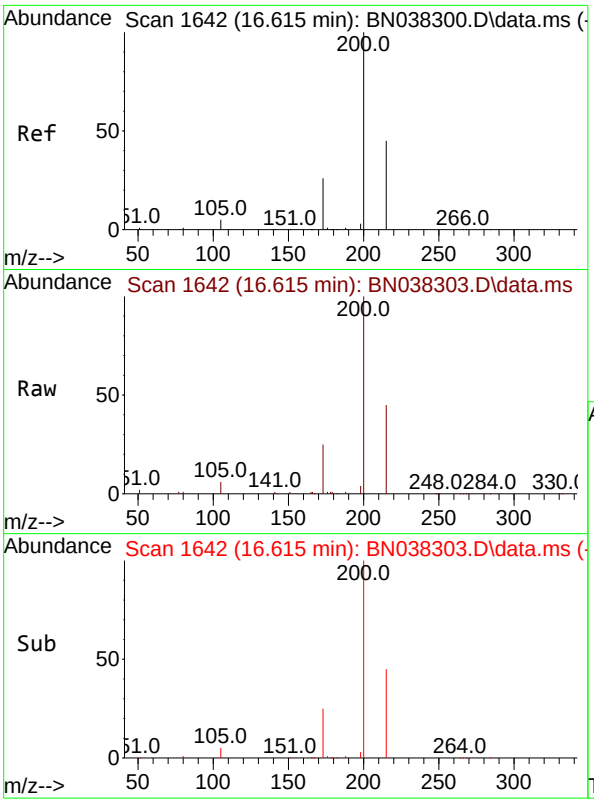


#22
Hexachlorobenzene
Concen: 3.207 ng
RT: 16.453 min Scan# 1629
Delta R.T. -0.012 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Tgt Ion:284 Resp: 40638

Ion	Ratio	Lower	Upper
284	100		
142	37.8	29.5	44.3
249	29.5	23.7	35.5



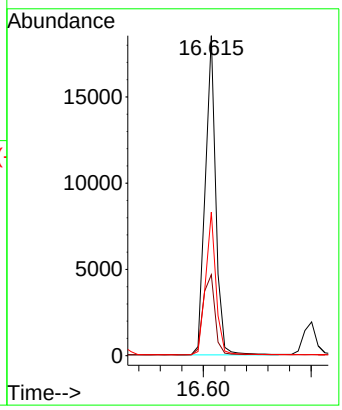


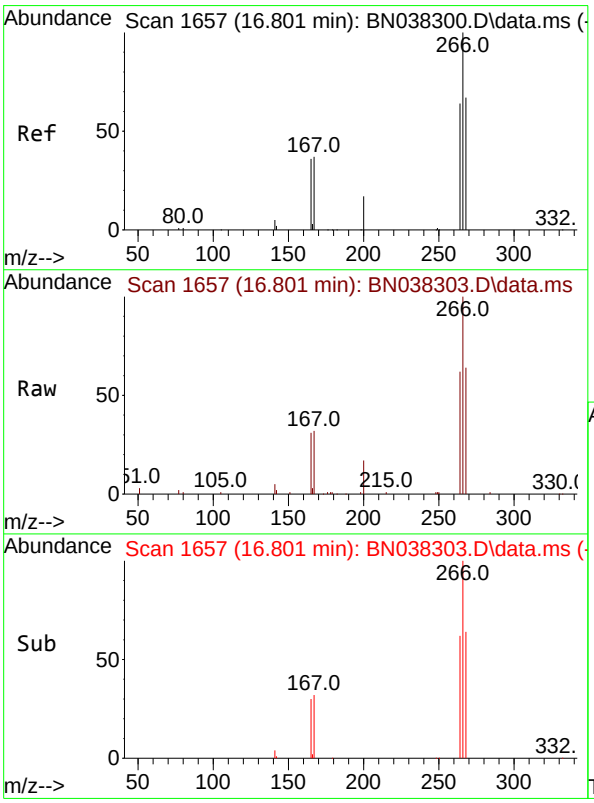
#23
Atrazine
Concen: 3.487 ng
RT: 16.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 25071

Ion	Ratio	Lower	Upper
200	100		
173	25.3	22.1	33.1
215	44.9	37.4	56.2

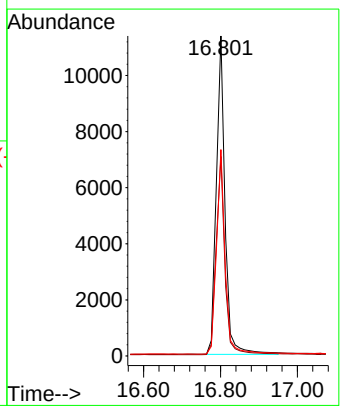


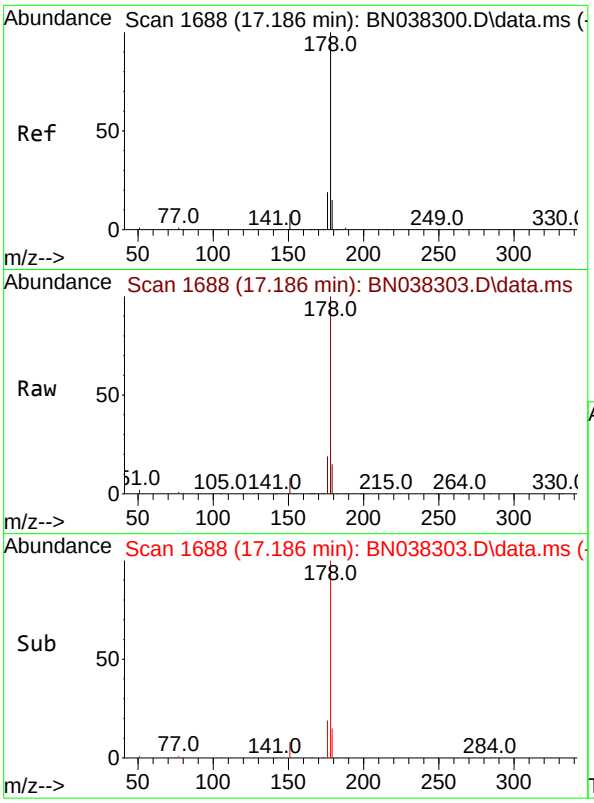


#24
Pentachlorophenol
Concen: 3.592 ng
RT: 16.801 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Tgt Ion:266 Resp: 17764

Ion	Ratio	Lower	Upper
266	100		
264	62.7	50.2	75.2
268	63.9	52.6	78.8



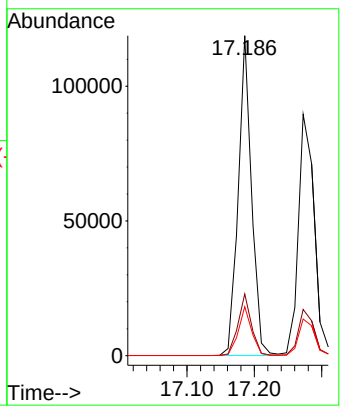


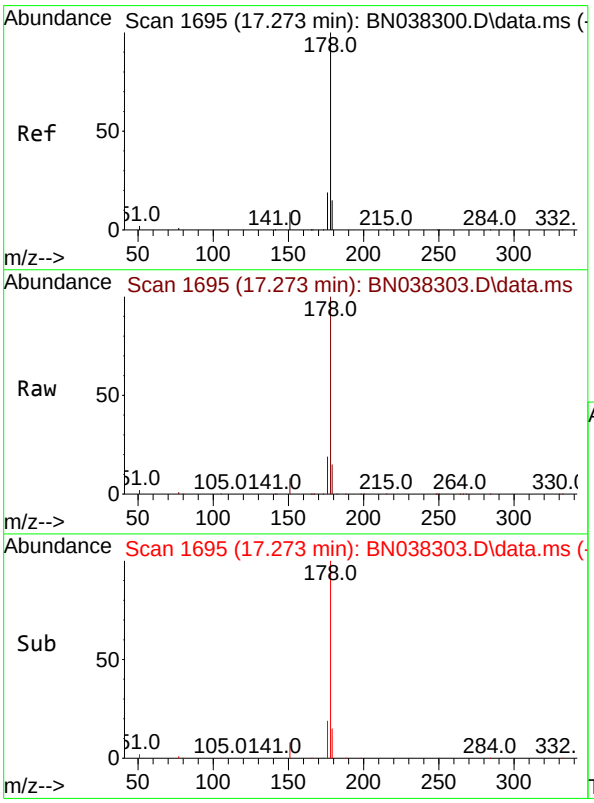
#25
Phenanthrene
Concen: 3.308 ng
RT: 17.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 163576

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.5	23.3
179	15.2	12.2	18.2

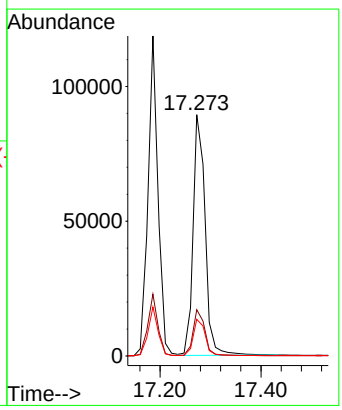


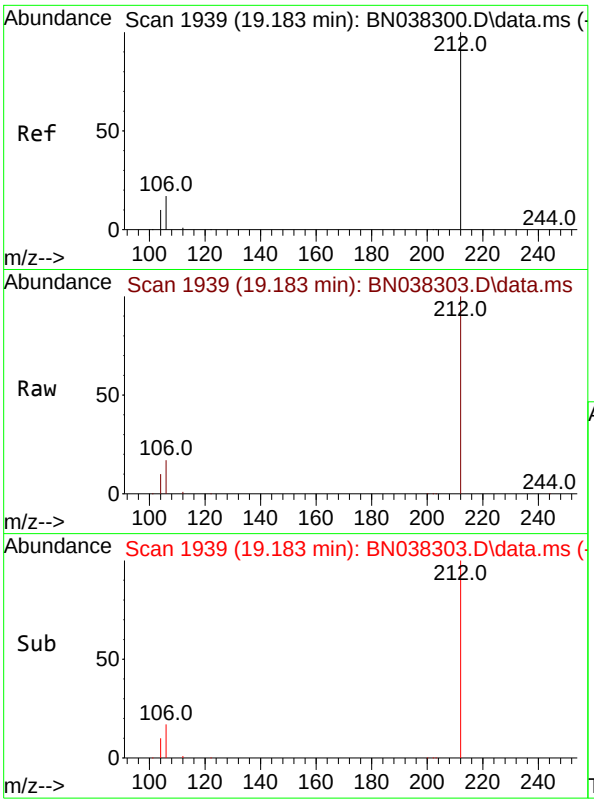


#26
Anthracene
Concen: 3.479 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Tgt Ion:178 Resp: 148322

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.1	22.7
179	15.3	12.0	18.0



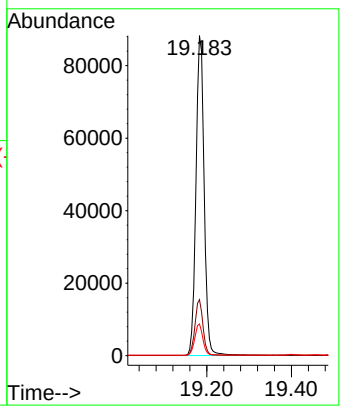


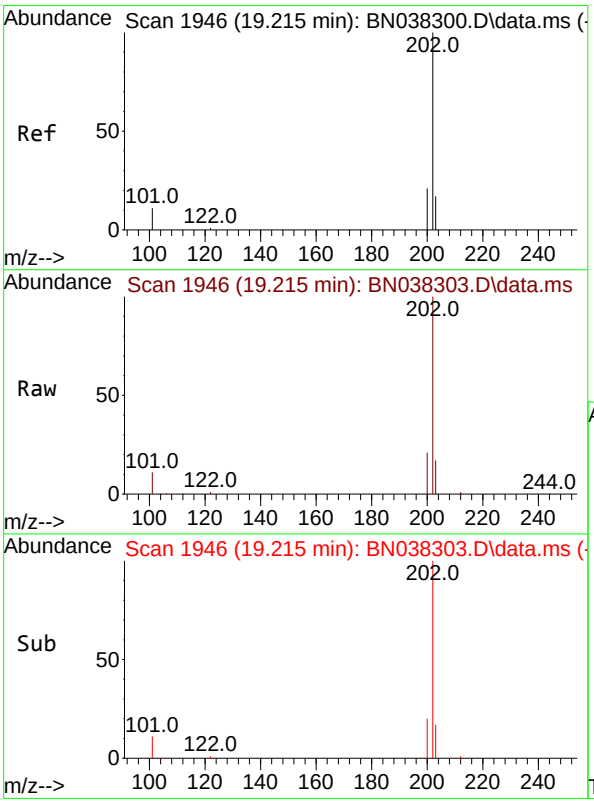
#27
Fluoranthene-d10
Concen: 3.381 ng
RT: 19.183 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:212 Resp: 118814

Ion	Ratio	Lower	Upper
212	100		
106	17.1	13.7	20.5
104	9.7	7.8	11.8

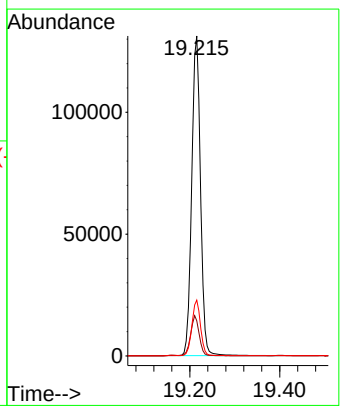


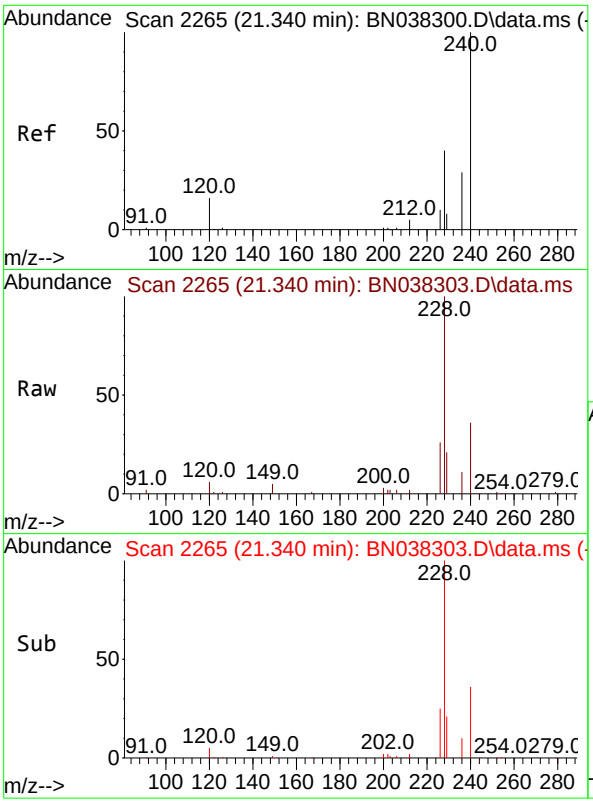


#28
Fluoranthene
Concen: 3.377 ng
RT: 19.215 min Scan# 1946
Delta R.T. -0.005 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Tgt Ion:202 Resp: 177518

Ion	Ratio	Lower	Upper
202	100		
101	12.4	9.6	14.4
203	17.2	13.5	20.3



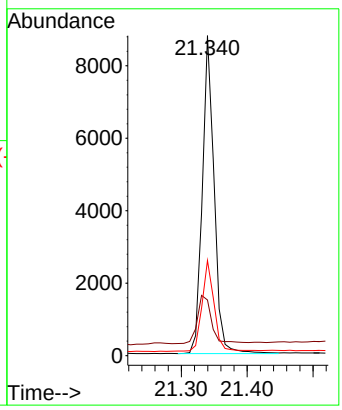


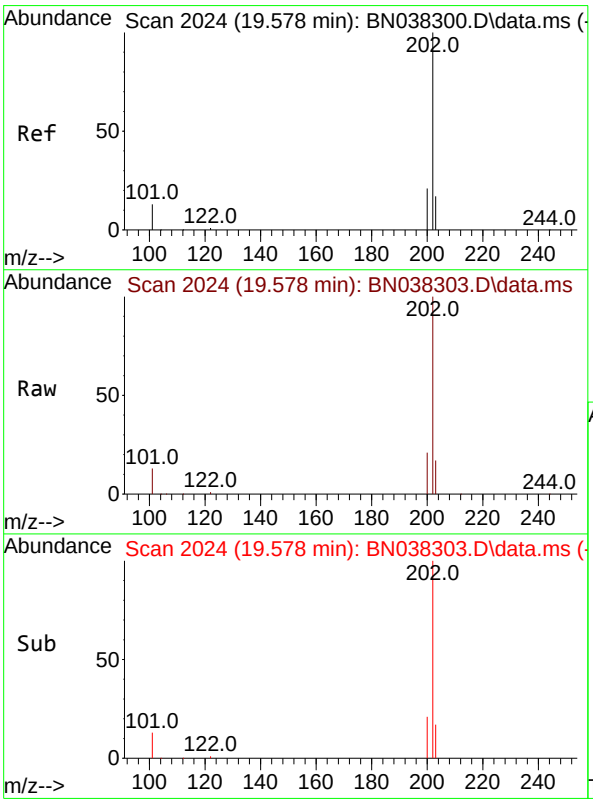
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.340 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:240 Resp: 11022

Ion	Ratio	Lower	Upper
240	100		
120	17.4	15.4	23.2
236	29.8	23.9	35.9

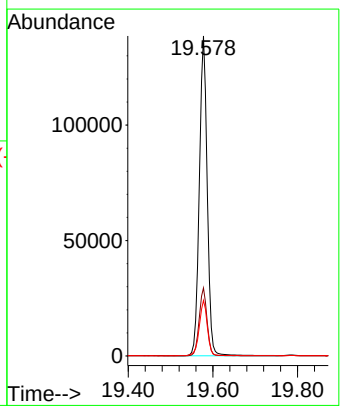


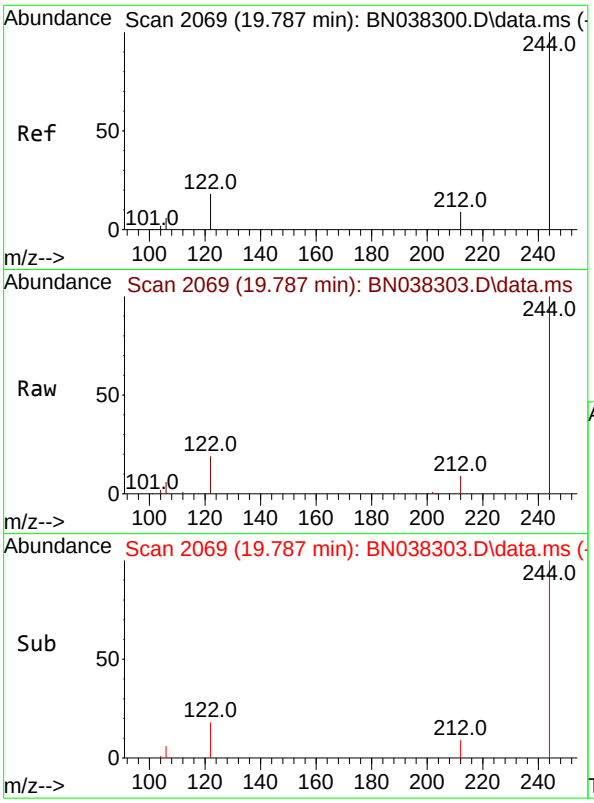


#30
Pyrene
Concen: 3.287 ng
RT: 19.578 min Scan# 2024
Delta R.T. -0.005 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Tgt Ion:202 Resp: 178334

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3
203	17.7	14.2	21.2



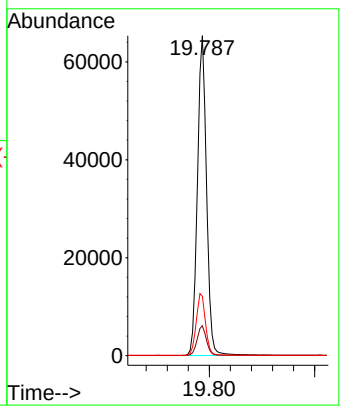


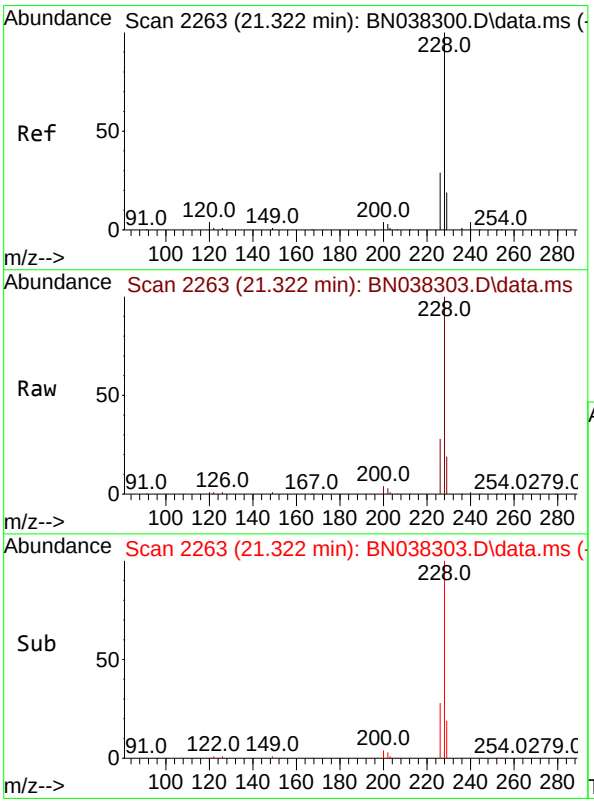
#31
Terphenyl-d14
Concen: 3.202 ng
RT: 19.787 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:244 Resp: 78759

Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.9	11.9
122	18.5	15.0	22.6

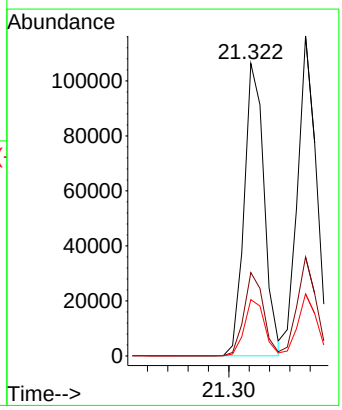


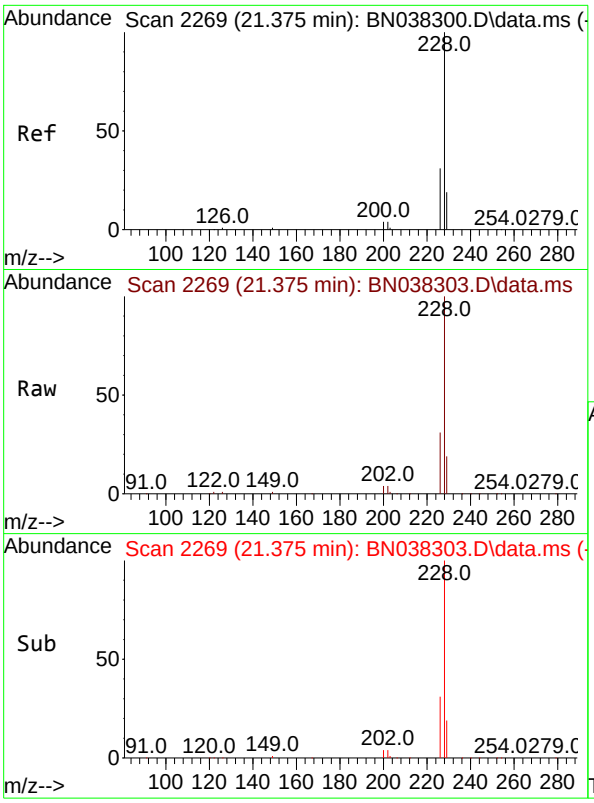


#32
Benzo(a)anthracene
Concen: 3.391 ng
RT: 21.322 min Scan# 2263
Delta R.T. -0.009 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Tgt Ion:228 Resp: 144401

Ion	Ratio	Lower	Upper
228	100		
226	28.5	23.3	34.9
229	19.3	15.7	23.5



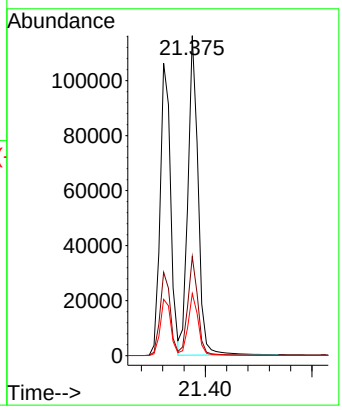


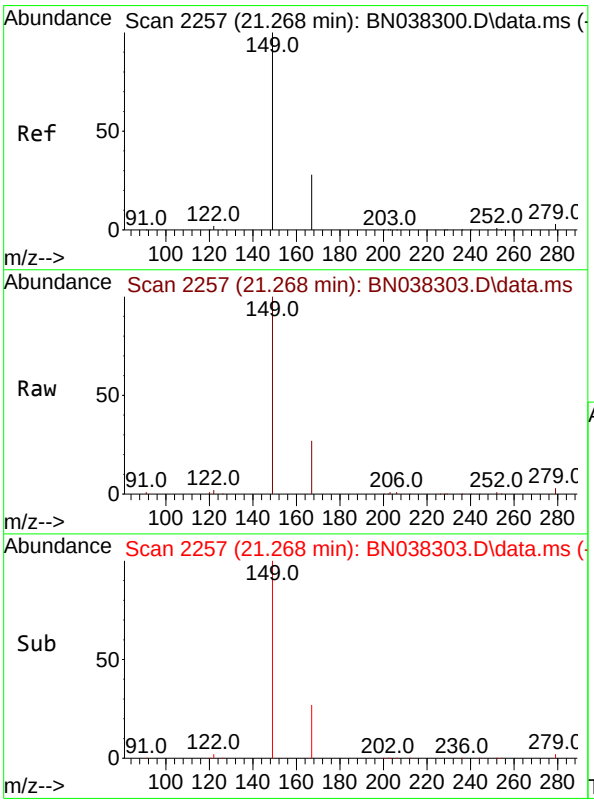
#33
Chrysene
Concen: 3.281 ng
RT: 21.375 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 153835

Ion	Ratio	Lower	Upper
228	100		
226	31.0	25.0	37.4
229	19.4	15.5	23.3

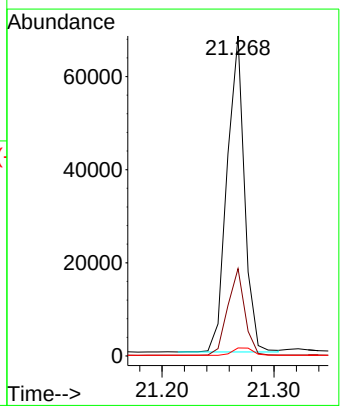


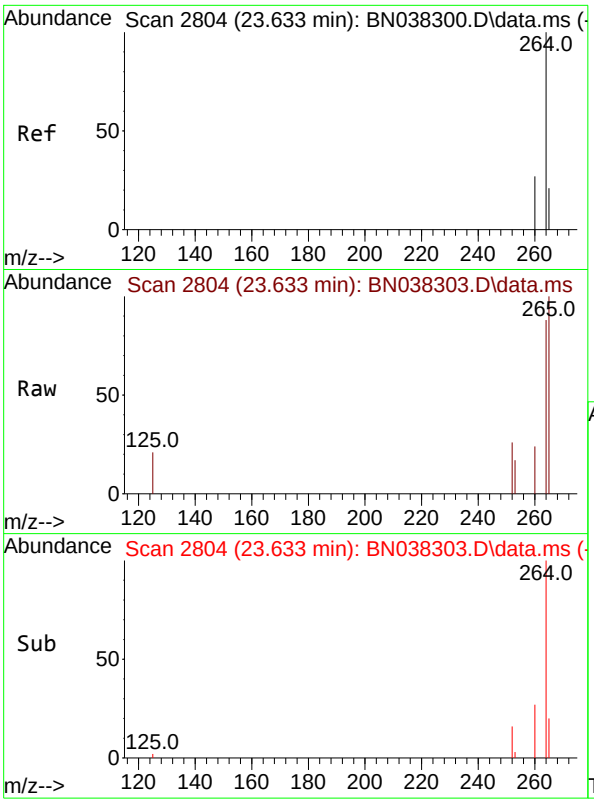


#34
Bis(2-ethylhexyl)phthalate
Concen: 3.126 ng
RT: 21.268 min Scan# 2257
Delta R.T. -0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Tgt Ion:149 Resp: 73028

Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.4	32.0
279	2.8	2.4	3.6



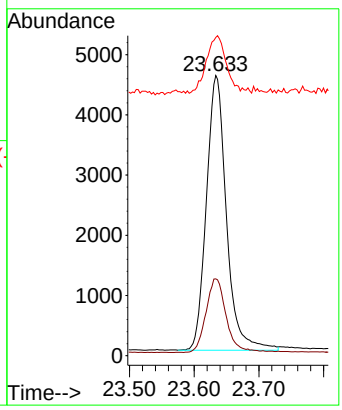


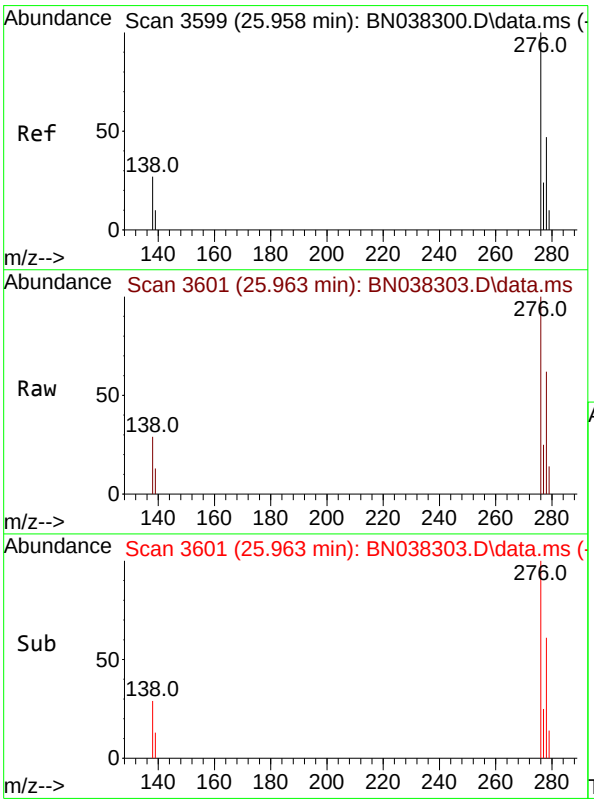
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.633 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:264 Resp: 9816

Ion	Ratio	Lower	Upper
264	100		
260	27.4	22.2	33.2
265	113.6	80.2	120.2

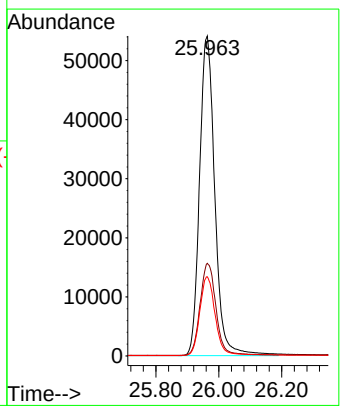


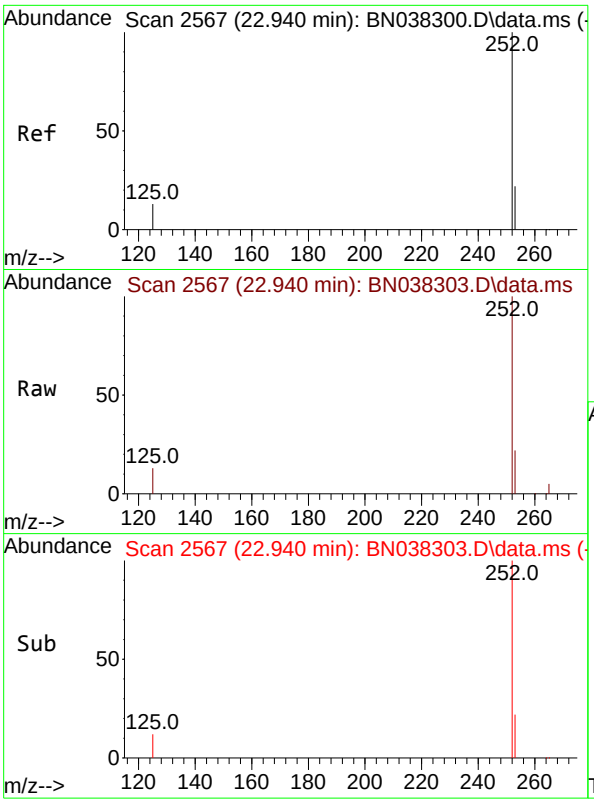


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.499 ng
RT: 25.963 min Scan# 3601
Delta R.T. -0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Tgt Ion:276 Resp: 182271

Ion	Ratio	Lower	Upper
276	100		
138	29.9	23.6	35.4
277	24.8	19.7	29.5



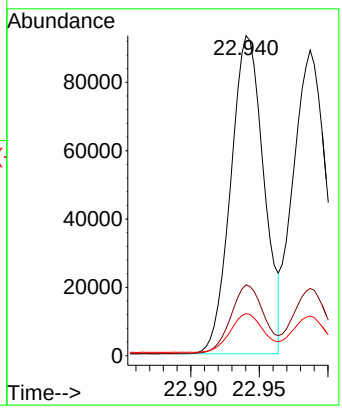


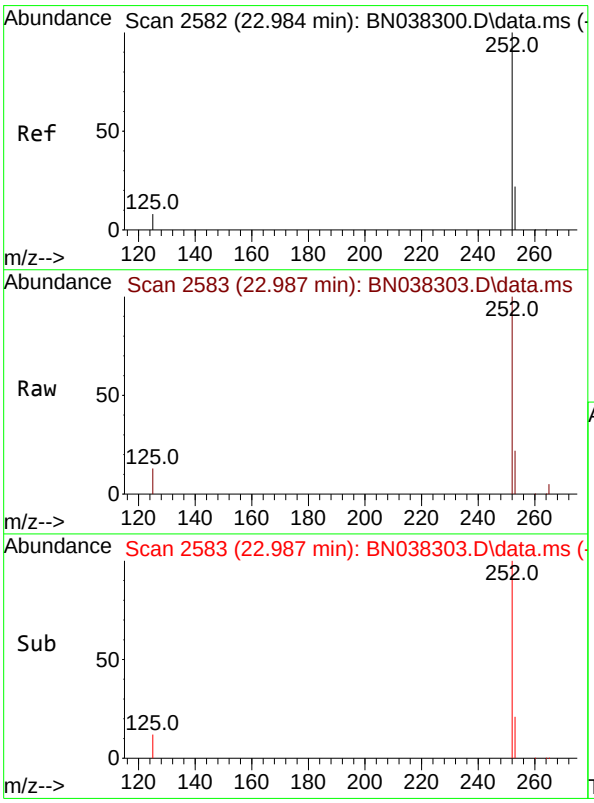
#37
Benzo(b)fluoranthene
Concen: 3.460 ng
RT: 22.940 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 155996

Ion	Ratio	Lower	Upper
252	100		
253	22.2	21.1	31.7
125	13.1	16.4	24.6#

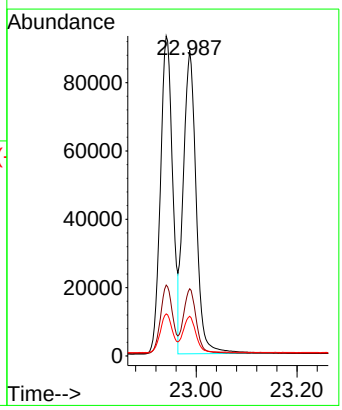


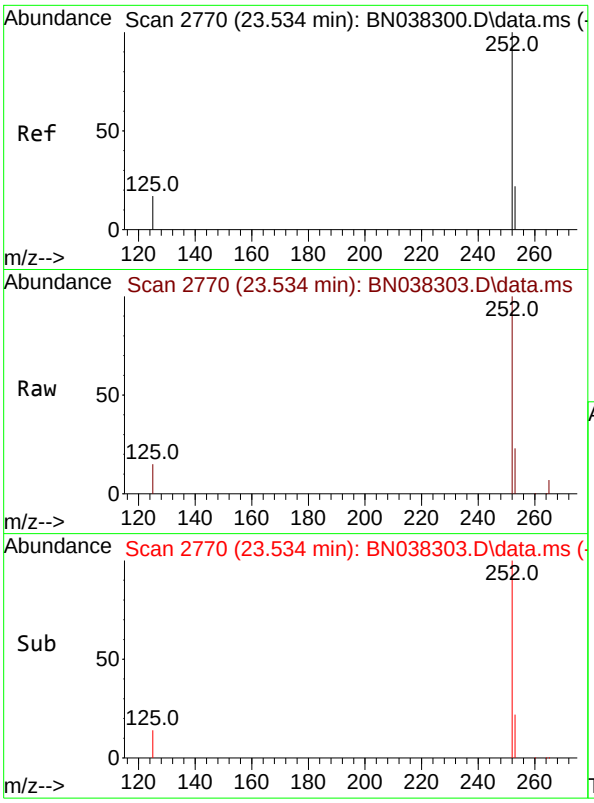


#38
Benzo(k)fluoranthene
Concen: 3.505 ng
RT: 22.987 min Scan# 2583
Delta R.T. -0.003 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Tgt Ion:252 Resp: 157545

Ion	Ratio	Lower	Upper
252	100		
253	22.0	21.4	32.0
125	13.0	16.2	24.2#



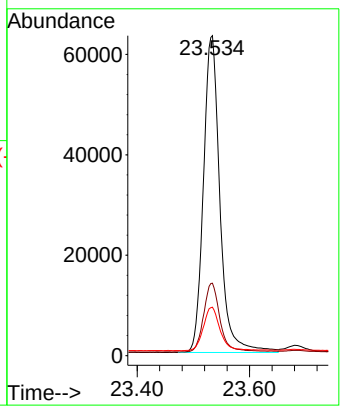


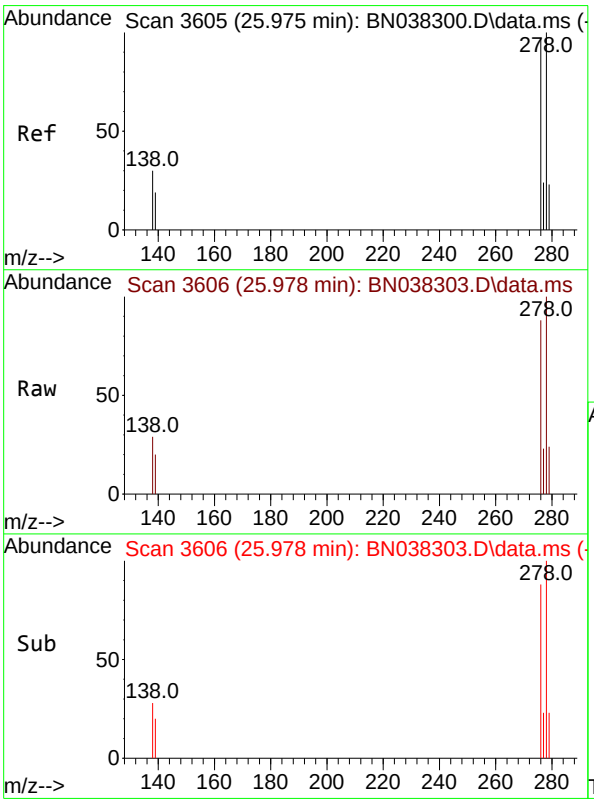
#39
Benzo(a)pyrene
Concen: 3.490 ng
RT: 23.534 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 128763

Ion	Ratio	Lower	Upper
252	100		
253	22.7	23.3	34.9#
125	15.2	22.4	33.6#

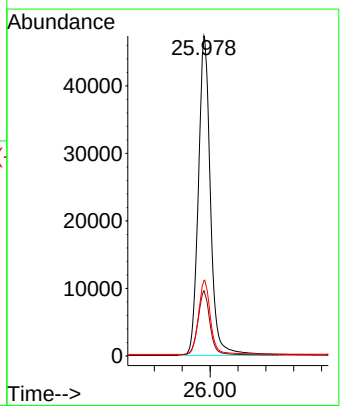


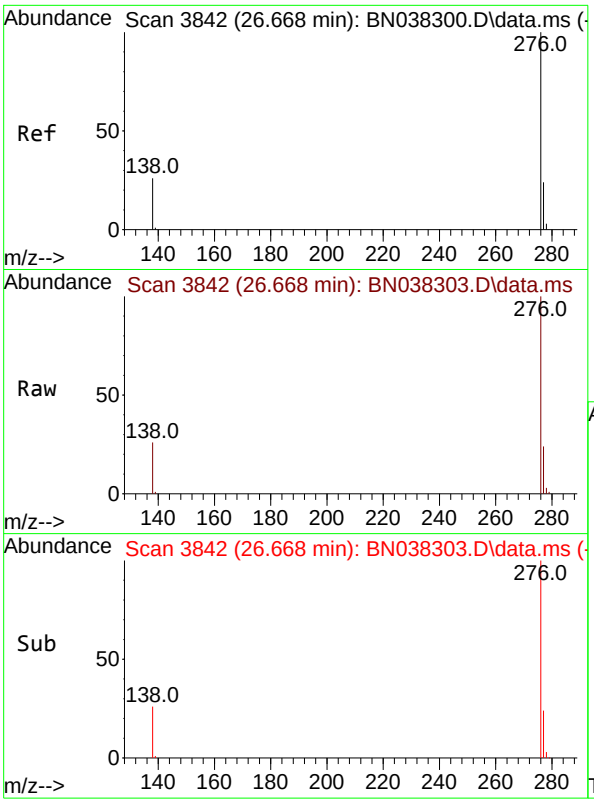


#40
Dibenzo(a,h)anthracene
Concen: 3.565 ng
RT: 25.978 min Scan# 3606
Delta R.T. -0.003 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Tgt Ion:278 Resp: 143161

Ion	Ratio	Lower	Upper
278	100		
139	20.4	17.8	26.8
279	23.6	21.3	31.9



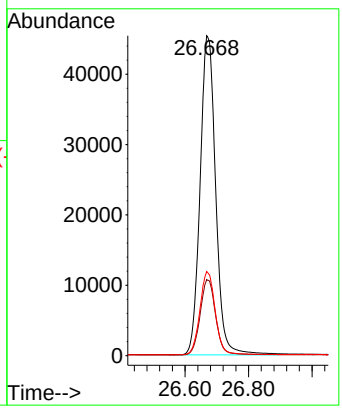


#41
Benzo(g,h,i)perylene
Concen: 3.439 ng
RT: 26.668 min Scan# 3
Delta R.T. -0.009 min
Lab File: BN038303.D
Acq: 10 Dec 2025 12:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 154373

Ion	Ratio	Lower	Upper
276	100		
277	23.8	20.0	30.0
138	26.3	21.8	32.6



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121025\
Data File : BN038304.D
Acq On : 10 Dec 2025 13:30
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Dec 10 14:00:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration

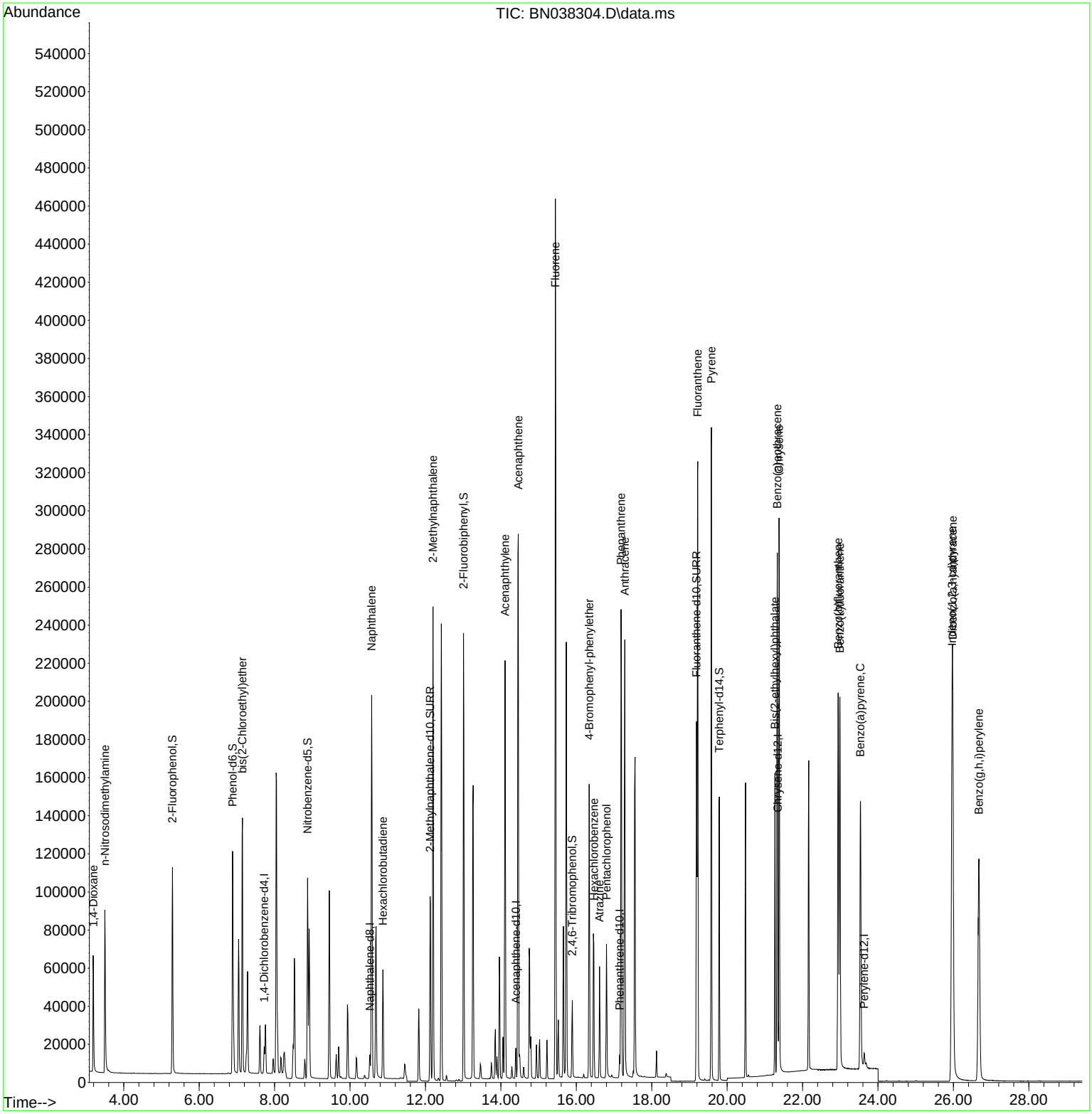
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	6683	0.400	ng		0.00
7) Naphthalene-d8	10.530	136	17297	0.400	ng		0.00
13) Acenaphthene-d10	14.398	164	8946	0.400	ng		0.00
19) Phenanthrene-d10	17.148	188	14791	0.400	ng	#	0.00
29) Chrysene-d12	21.340	240	11438	0.400	ng	#	0.00
35) Perylene-d12	23.633	264	10064	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	85118	5.114	ng		0.00
5) Phenol-d6	6.887	99	106714	5.393	ng		0.00
8) Nitrobenzene-d5	8.875	82	77560	5.316	ng		0.00
11) 2-Methylnaphthalene-d10	12.126	152	129558	5.310	ng		0.00
14) 2,4,6-Tribromophenol	15.895	330	22914	5.773	ng		0.00
15) 2-Fluorobiphenyl	13.008	172	203375	4.719	ng		0.00
27) Fluoranthene-d10	19.187	212	194683	5.322	ng		0.00
31) Terphenyl-d14	19.791	244	129183	5.061	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.196	88	36727	4.793	ng		98
3) n-Nitrosodimethylamine	3.499	42	47875	4.983	ng	#	97
6) bis(2-Chloroethyl)ether	7.147	93	95792	4.949	ng		98
9) Naphthalene	10.573	128	260570	5.096	ng		99
10) Hexachlorobutadiene	10.872	225	44570	4.904	ng	#	100
12) 2-Methylnaphthalene	12.202	142	170617	5.257	ng		99
16) Acenaphthylene	14.110	152	233854	5.323	ng		99
17) Acenaphthene	14.462	154	159912	5.225	ng		96
18) Fluorene	15.446	166	201458	5.116	ng		98
21) 4-Bromophenyl-phenylether	16.342	248	58800	5.358	ng	#	88
22) Hexachlorobenzene	16.466	284	66067	5.008	ng		100
23) Atrazine	16.615	200	42381	5.662	ng		94
24) Pentachlorophenol	16.801	266	32164	6.248	ng		99
25) Phenanthrene	17.186	178	269284	5.231	ng		100
26) Anthracene	17.285	178	245335	5.527	ng		100
28) Fluoranthene	19.220	202	289557	5.292	ng		99
30) Pyrene	19.582	202	291237	5.172	ng		100
32) Benzo(a)anthracene	21.331	228	239112	5.412	ng		98
33) Chrysene	21.375	228	242638	4.987	ng		99
34) Bis(2-ethylhexyl)phtha...	21.268	149	125703	5.186	ng		100
36) Indeno(1,2,3-cd)pyrene	25.963	276	293099	5.489	ng		100
37) Benzo(b)fluoranthene	22.946	252	249557	5.399	ng	#	88
38) Benzo(k)fluoranthene	22.990	252	250888	5.444	ng	#	87
39) Benzo(a)pyrene	23.534	252	209188	5.530	ng	#	81
40) Dibenzo(a,h)anthracene	25.981	278	229223	5.567	ng		95
41) Benzo(g,h,i)perylene	26.677	276	247112	5.369	ng		97

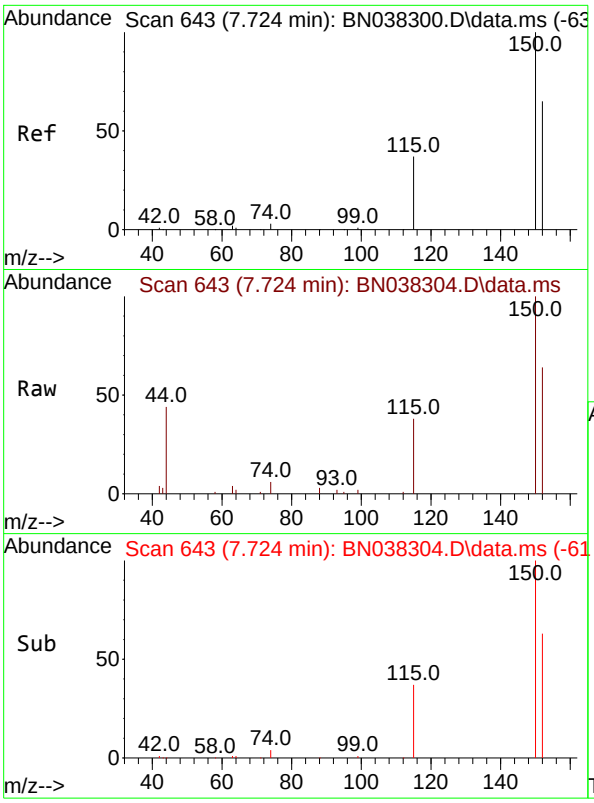
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121025\
Data File : BN038304.D
Acq On : 10 Dec 2025 13:30
Operator : RC/JU
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Dec 10 14:00:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration



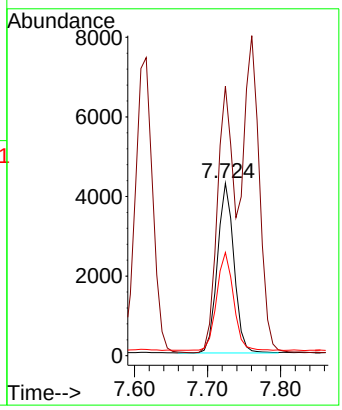


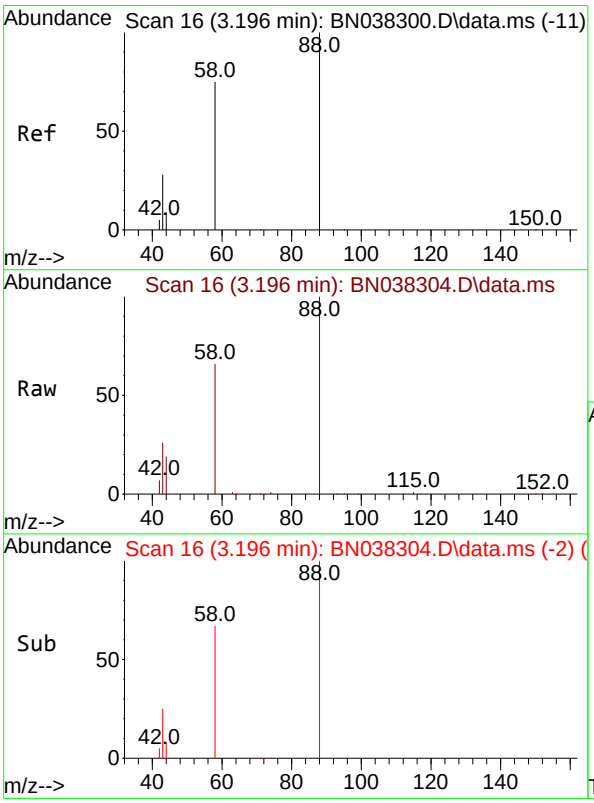
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 6683

Ion	Ratio	Lower	Upper
152	100		
150	156.2	122.4	183.6
115	59.8	47.3	70.9

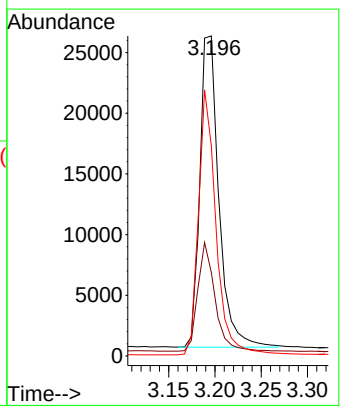


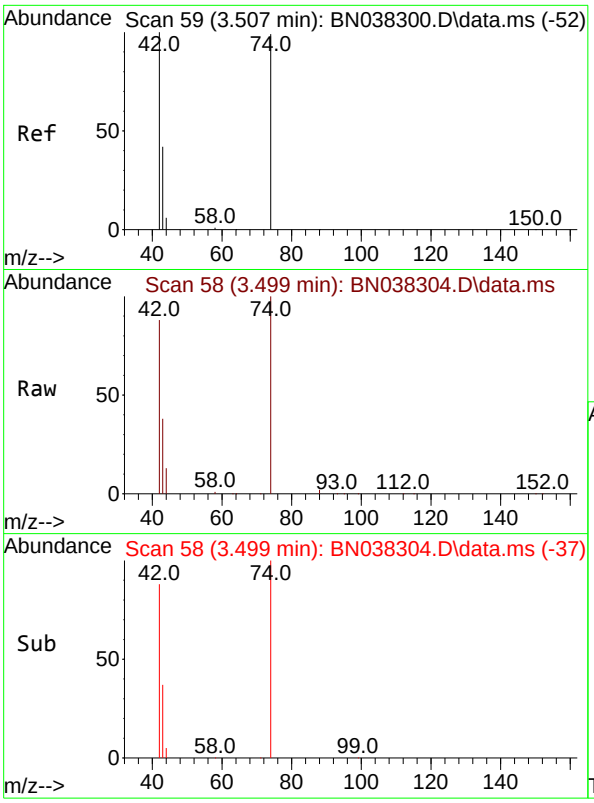


#2
1,4-Dioxane
Concen: 4.793 ng
RT: 3.196 min Scan# 16
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Tgt Ion: 88 Resp: 36727

Ion	Ratio	Lower	Upper
88	100		
43	31.7	24.9	37.3
58	78.3	61.4	92.0



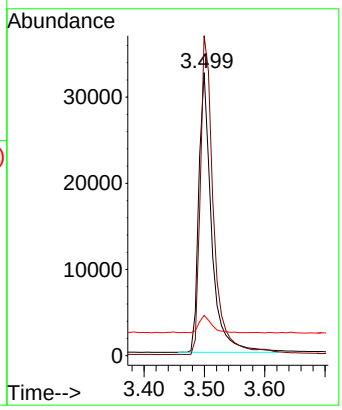


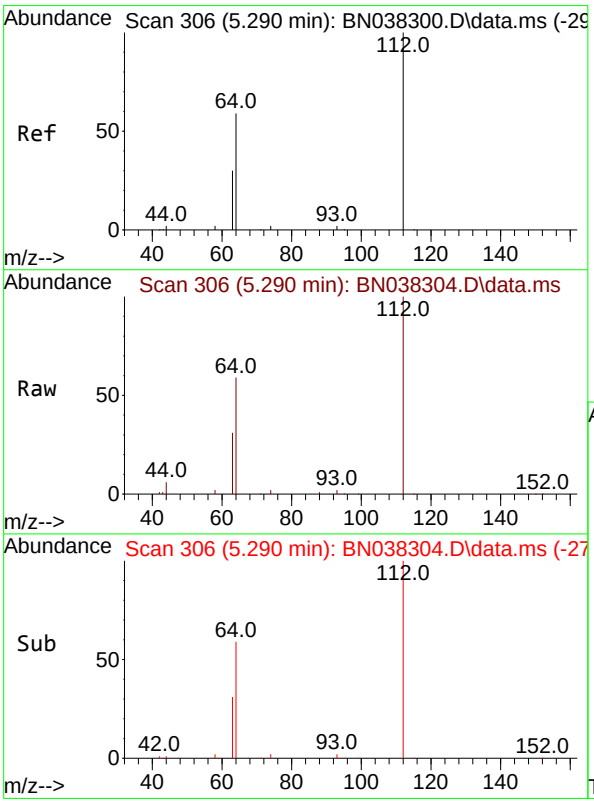
#3
n-Nitrosodimethylamine
Concen: 4.983 ng
RT: 3.499 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 47875

Ion	Ratio	Lower	Upper
42	100		
74	116.7	95.3	142.9
44	5.9	7.9	11.9#

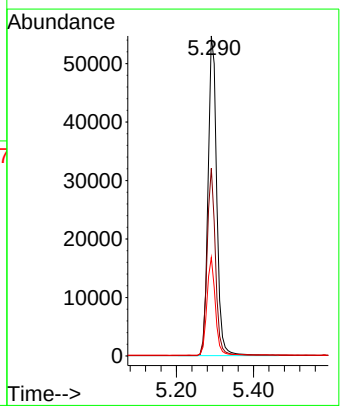


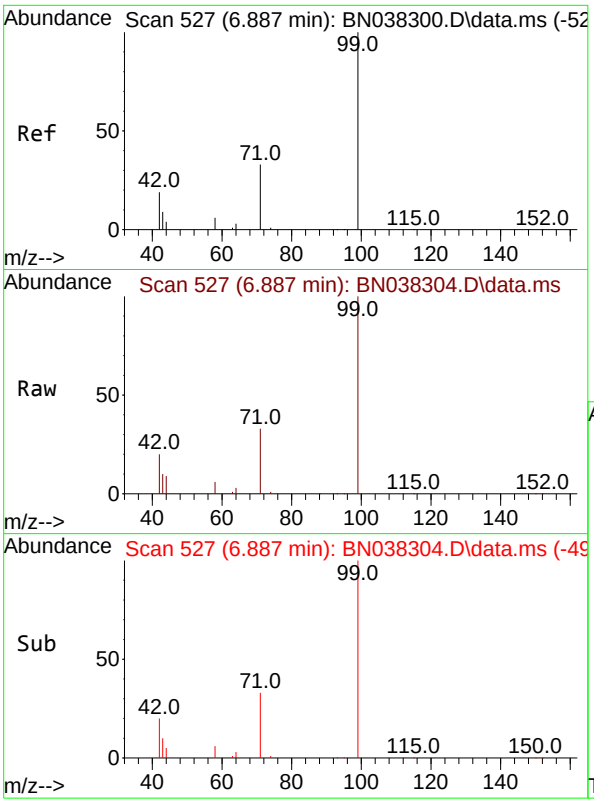


#4
2-Fluorophenol
Concen: 5.114 ng
RT: 5.290 min Scan# 306
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Tgt Ion:112 Resp: 85118

Ion	Ratio	Lower	Upper
112	100		
64	56.5	44.4	66.6
63	29.5	23.4	35.0



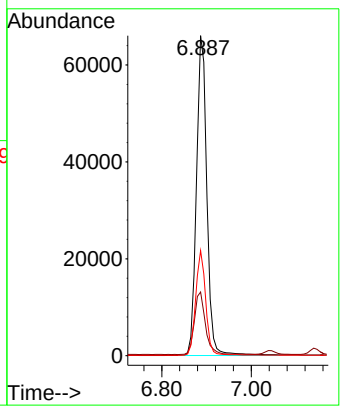


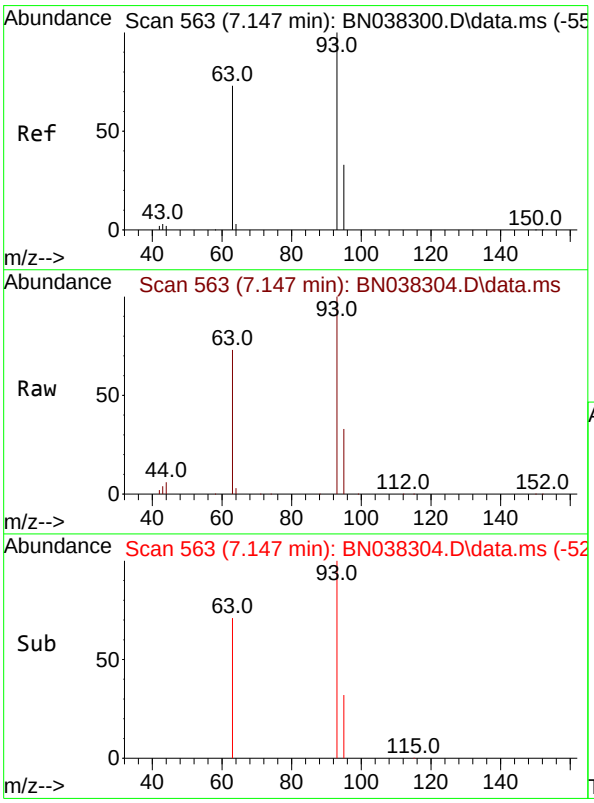
#5
Phenol-d6
Concen: 5.393 ng
RT: 6.887 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 106714

Ion	Ratio	Lower	Upper
99	100		
42	20.8	16.5	24.7
71	31.8	24.9	37.3

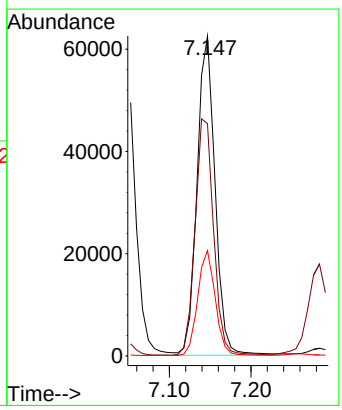


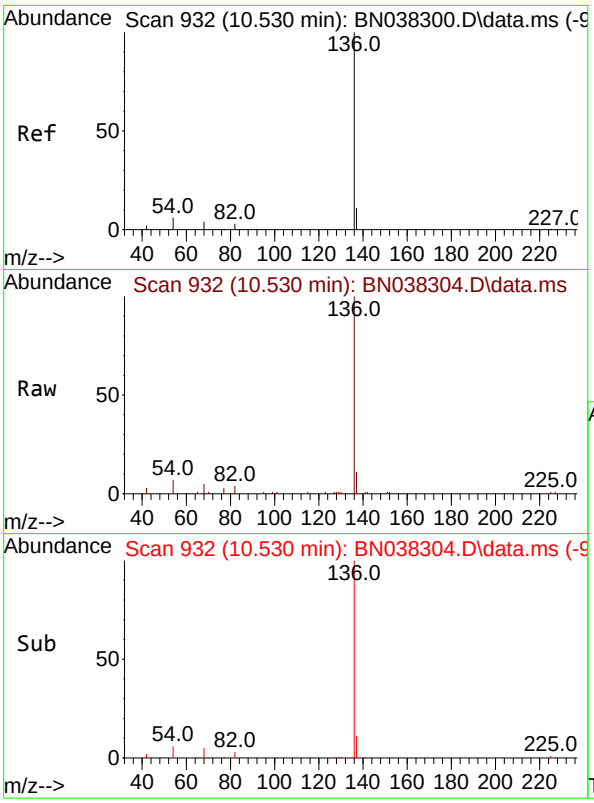


#6
bis(2-Chloroethyl)ether
Concen: 4.949 ng
RT: 7.147 min Scan# 563
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Tgt Ion: 93 Resp: 95792

Ion	Ratio	Lower	Upper
93	100		
63	76.0	59.2	88.8
95	32.3	25.2	37.8



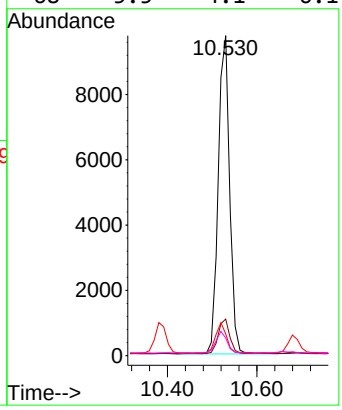


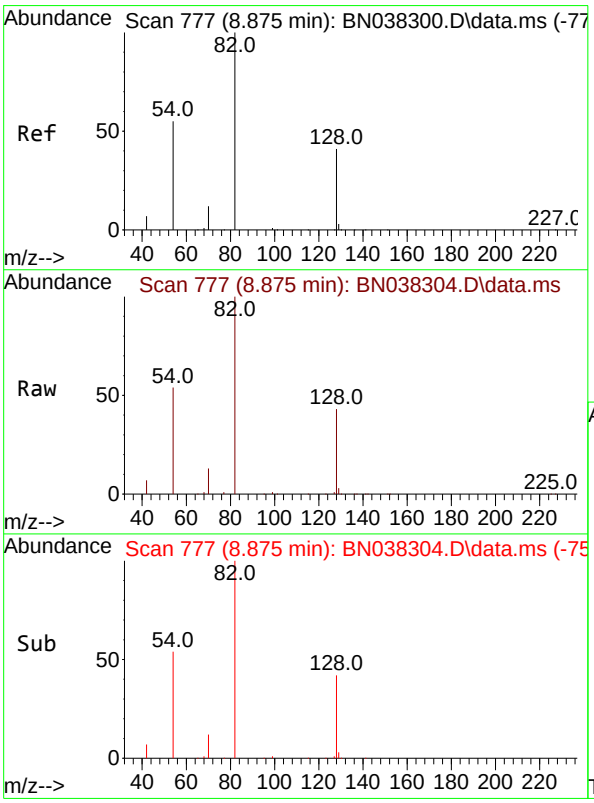
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.530 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 17297

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	6.8	5.2	7.8
68	5.5	4.1	6.1

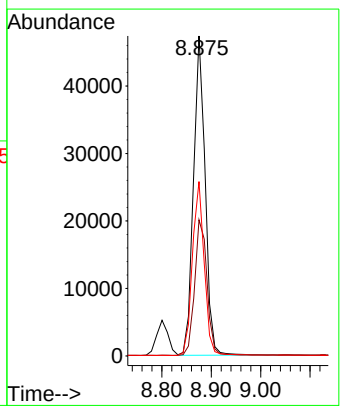


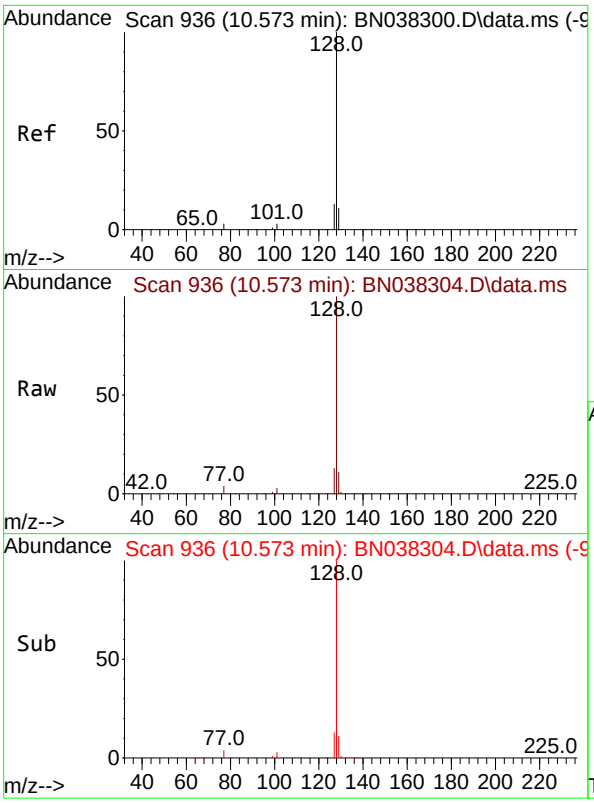


#8
Nitrobenzene-d5
Concen: 5.316 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Tgt Ion: 82 Resp: 77560

Ion	Ratio	Lower	Upper
82	100		
128	42.6	34.0	51.0
54	54.5	44.4	66.6



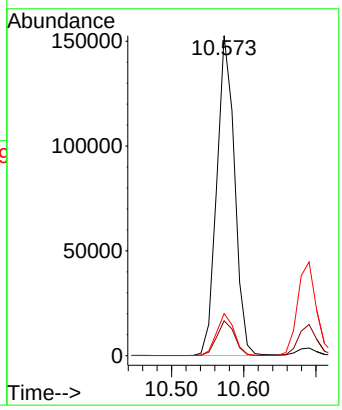


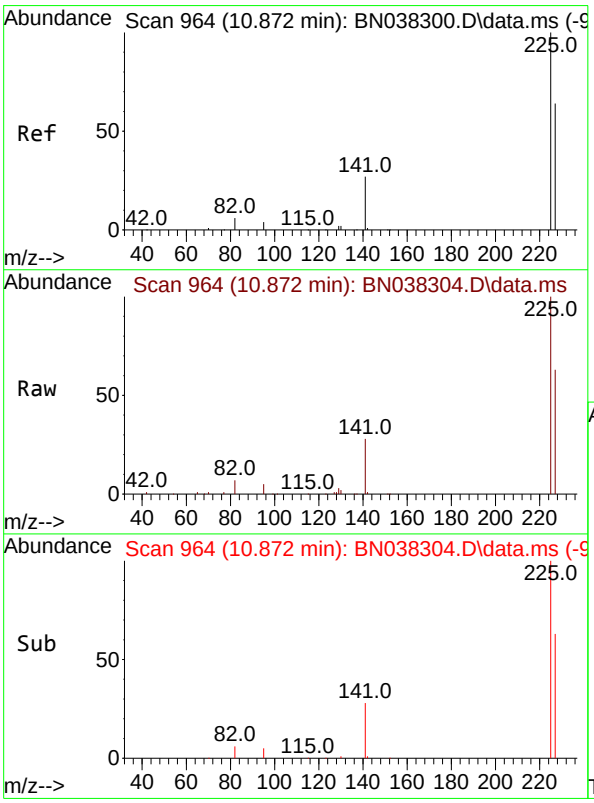
#9
Naphthalene
Concen: 5.096 ng
RT: 10.573 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 260570

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.1	13.7
127	13.2	10.9	16.3

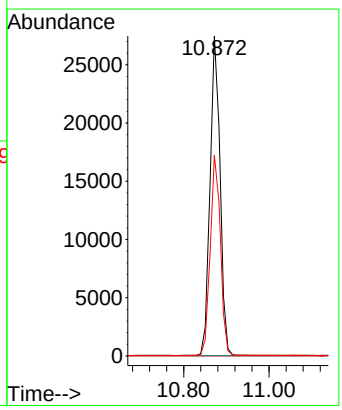


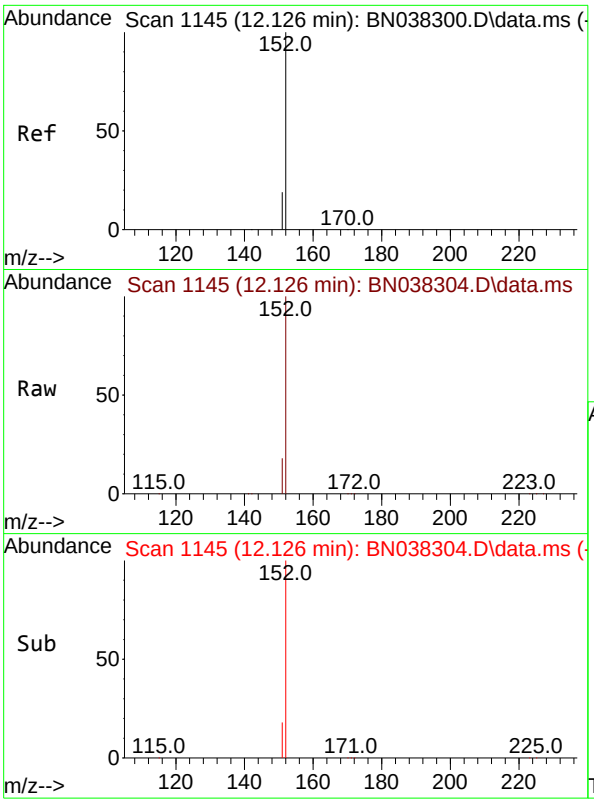


#10
Hexachlorobutadiene
Concen: 4.904 ng
RT: 10.872 min Scan# 964
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Tgt Ion:225 Resp: 44570

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.7	51.2	76.8



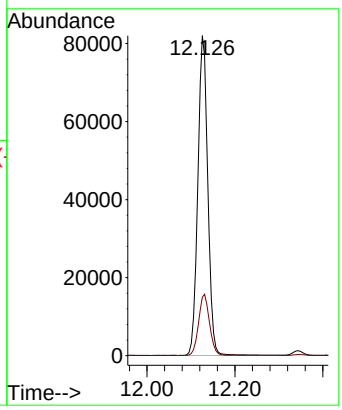


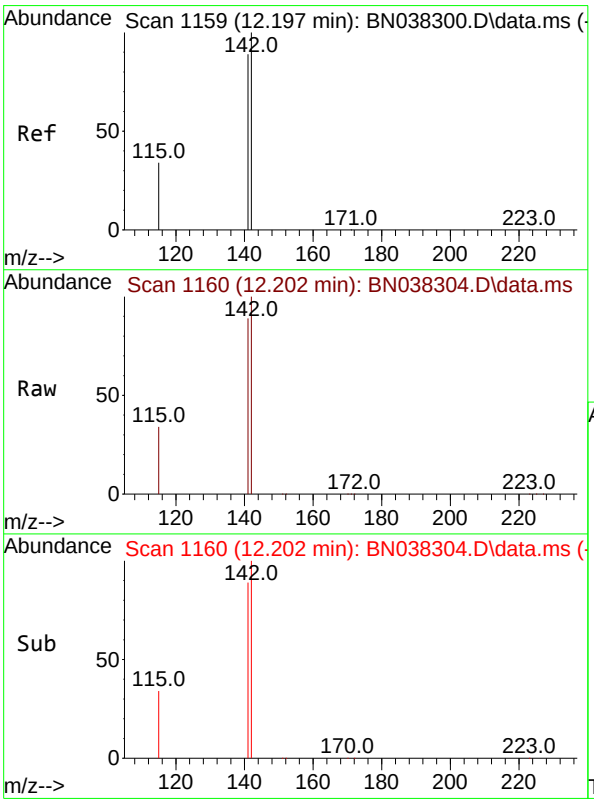
#11
2-Methylnaphthalene-d10
Concen: 5.310 ng
RT: 12.126 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 129558

Ion	Ratio	Lower	Upper
152	100		
151	20.9	17.0	25.6

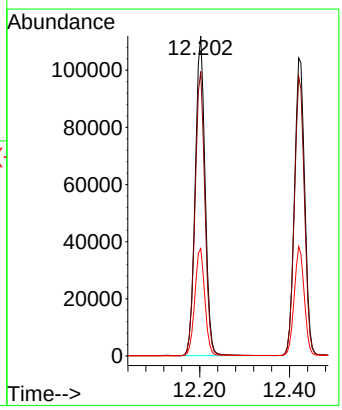


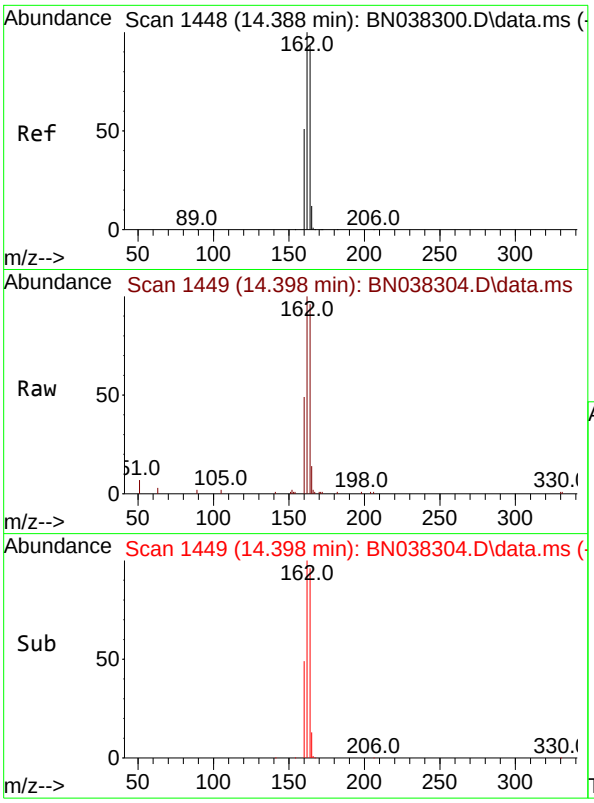


#12
2-Methylnaphthalene
Concen: 5.257 ng
RT: 12.202 min Scan# 1160
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Tgt Ion:142 Resp: 170617

Ion	Ratio	Lower	Upper
142	100		
141	88.9	71.4	107.2
115	33.6	28.4	42.6



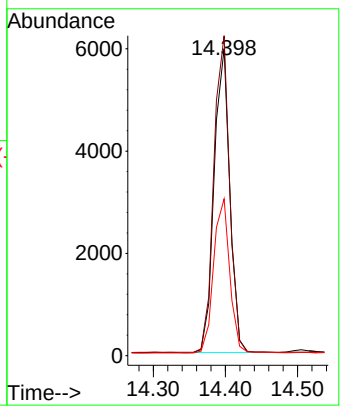


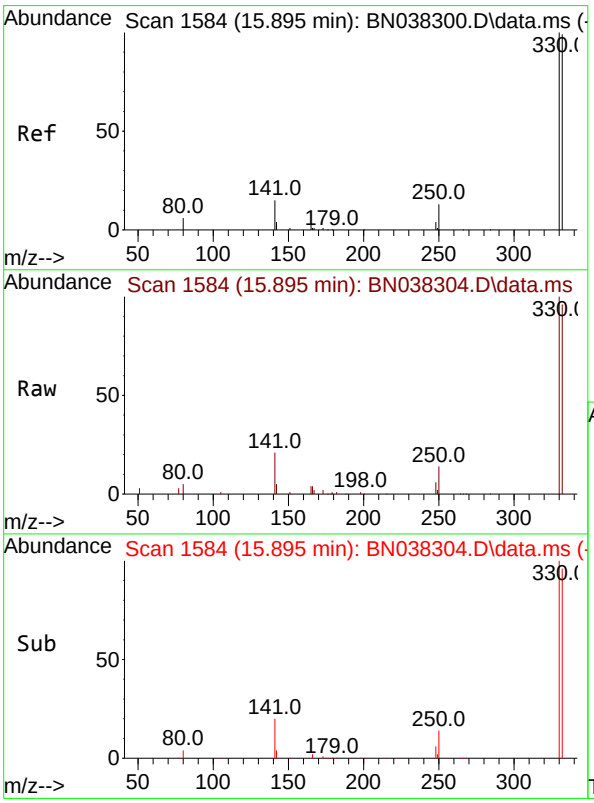
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.398 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 8946

Ion	Ratio	Lower	Upper
164	100		
162	104.2	86.2	129.4
160	51.0	44.6	67.0

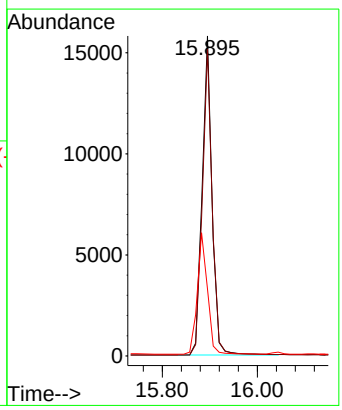


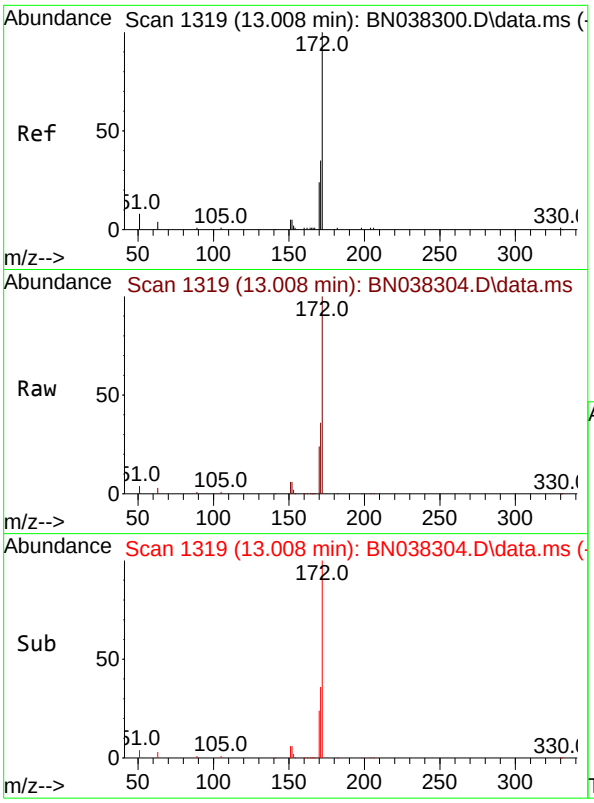


#14
2,4,6-Tribromophenol
Concen: 5.773 ng
RT: 15.895 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Tgt Ion:330 Resp: 22914

Ion	Ratio	Lower	Upper
330	100		
332	96.0	75.8	113.6
141	38.8	31.8	47.8



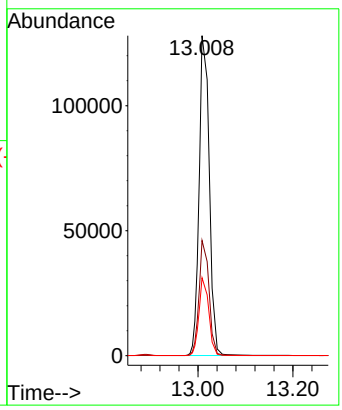


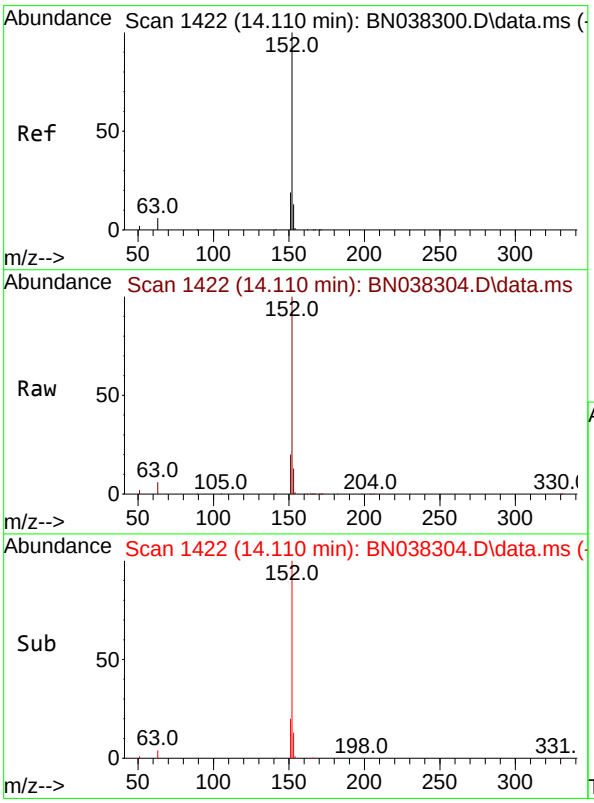
#15
2-Fluorobiphenyl
Concen: 4.719 ng
RT: 13.008 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 203375

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.6	42.8
170	24.3	19.3	28.9

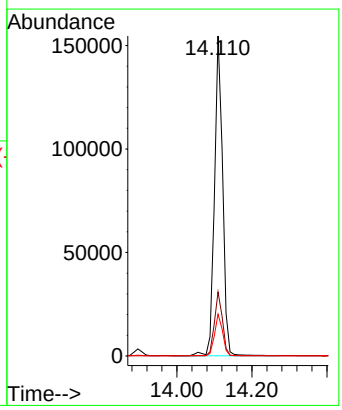


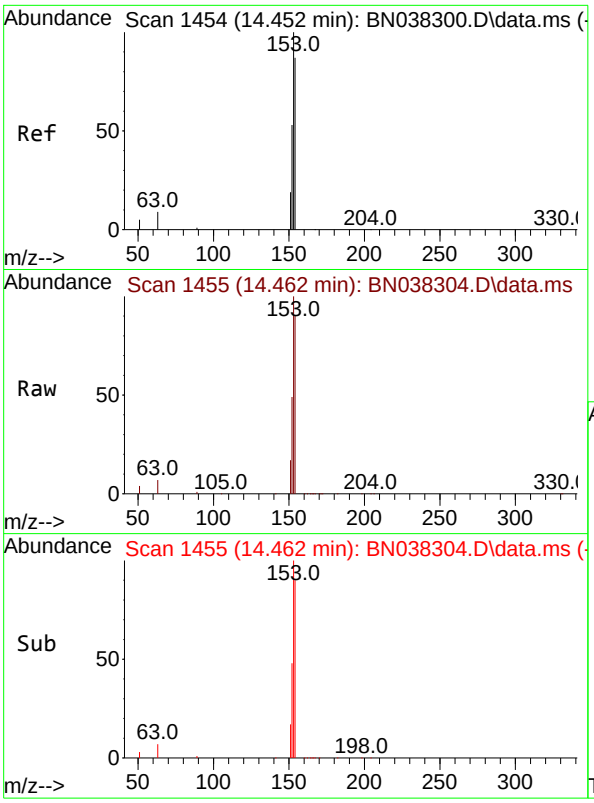


#16
Acenaphthylene
Concen: 5.323 ng
RT: 14.110 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Tgt Ion:152 Resp: 233854

Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.4	23.2
153	13.0	10.2	15.4



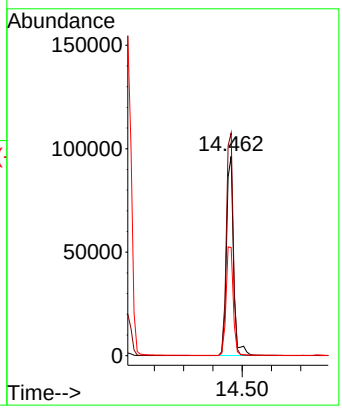


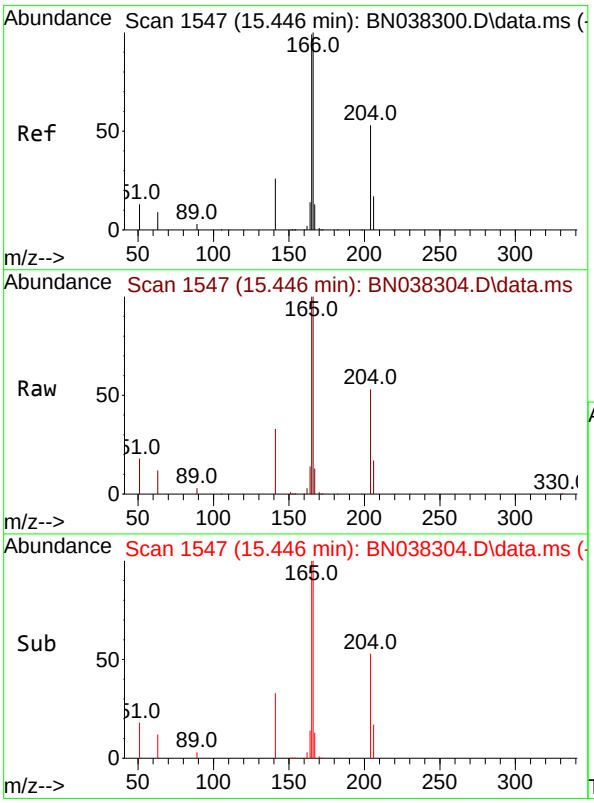
#17
Acenaphthene
Concen: 5.225 ng
RT: 14.462 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 159912

Ion	Ratio	Lower	Upper
154	100		
153	108.9	89.8	134.8
152	55.4	47.5	71.3

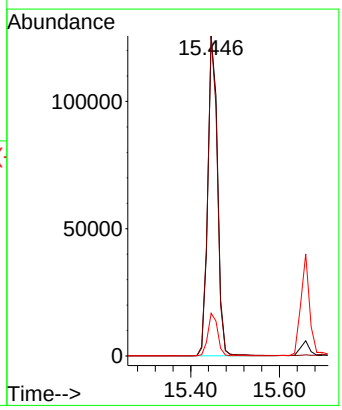


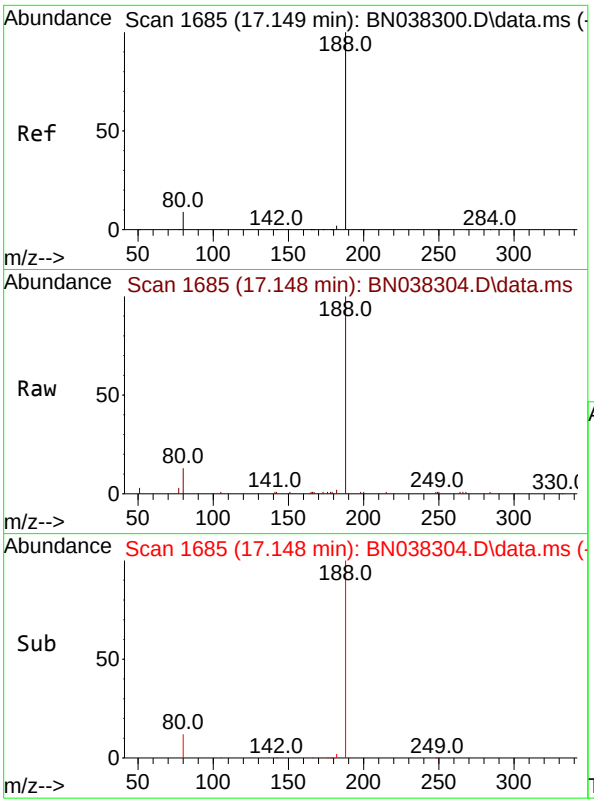


#18
Fluorene
Concen: 5.116 ng
RT: 15.446 min Scan# 1547
Delta R.T. -0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Tgt Ion:166 Resp: 201458

Ion	Ratio	Lower	Upper
166	100		
165	98.0	80.2	120.4
167	13.2	10.6	16.0



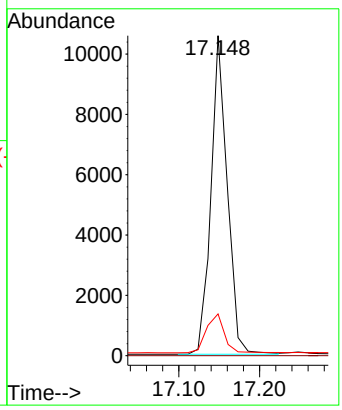


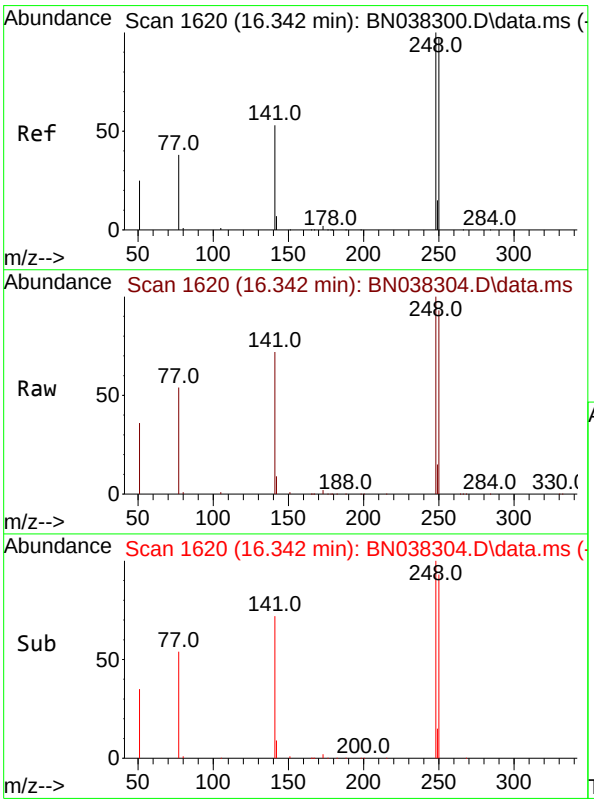
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.148 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 14791

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.1	7.4	11.0#

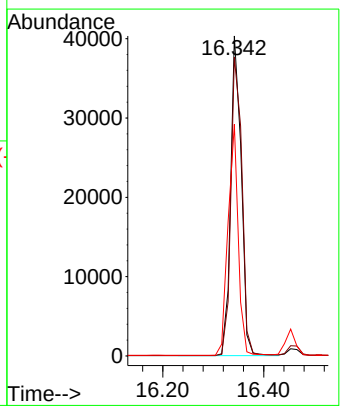


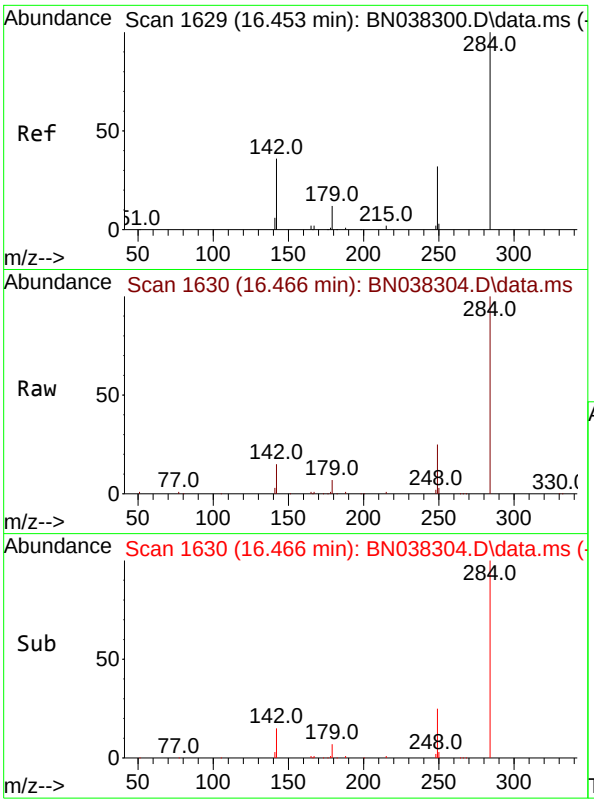


#21
4-Bromophenyl-phenylether
Concen: 5.358 ng
RT: 16.342 min Scan# 1620
Delta R.T. -0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Tgt Ion:248 Resp: 58800

Ion	Ratio	Lower	Upper
248	100		
250	93.4	78.2	117.2
141	72.4	43.7	65.5#



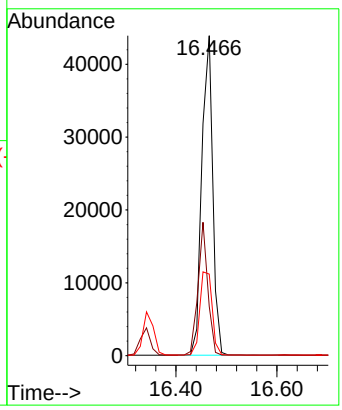


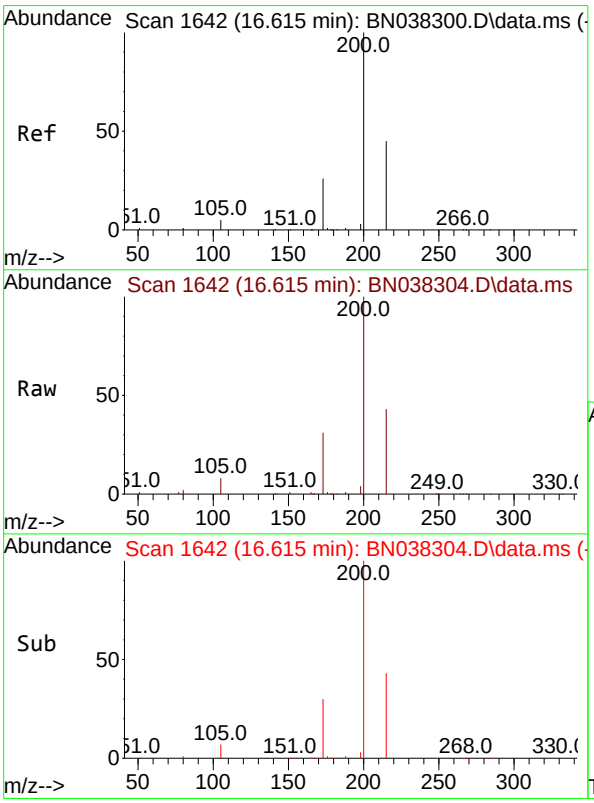
#22
Hexachlorobenzene
Concen: 5.008 ng
RT: 16.466 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:284 Resp: 66067

Ion	Ratio	Lower	Upper
284	100		
142	37.3	29.5	44.3
249	29.4	23.7	35.5

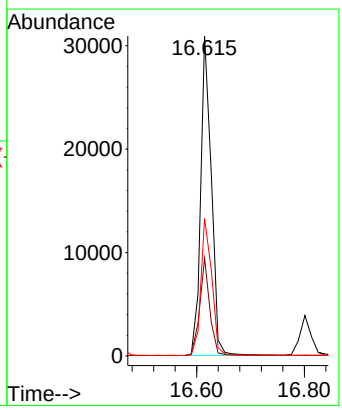


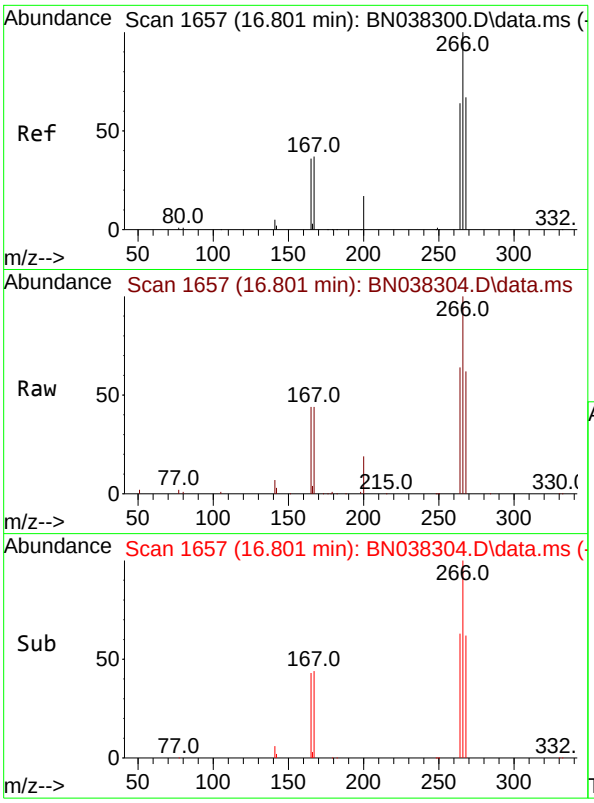


#23
Atrazine
Concen: 5.662 ng
RT: 16.615 min Scan# 1642
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Tgt Ion:200 Resp: 42381

Ion	Ratio	Lower	Upper
200	100		
173	30.6	22.1	33.1
215	42.9	37.4	56.2



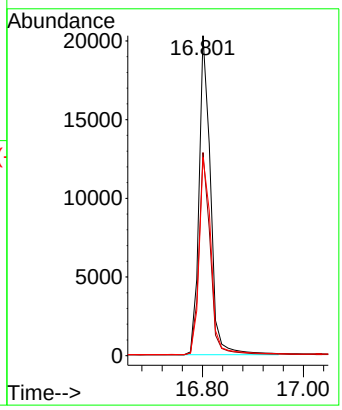


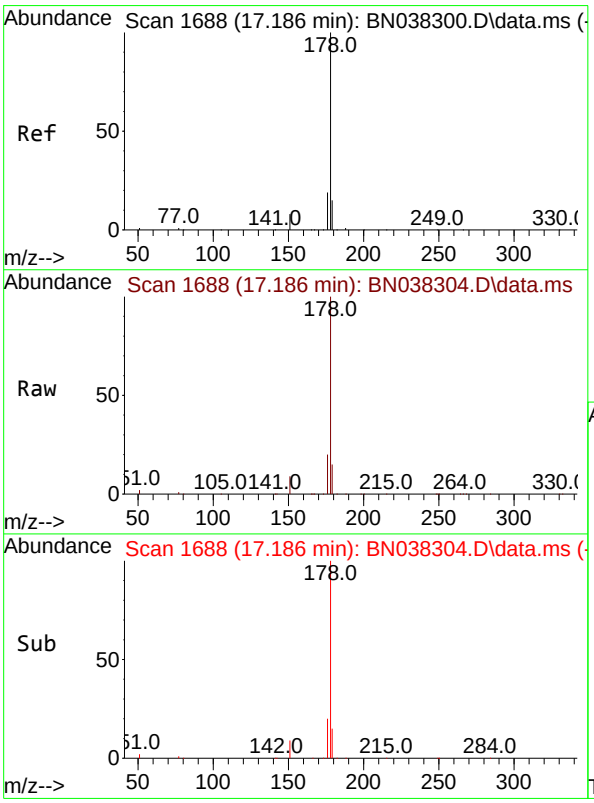
#24
Pentachlorophenol
Concen: 6.248 ng
RT: 16.801 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:266 Resp: 32164

Ion	Ratio	Lower	Upper
266	100		
264	62.8	50.2	75.2
268	64.3	52.6	78.8

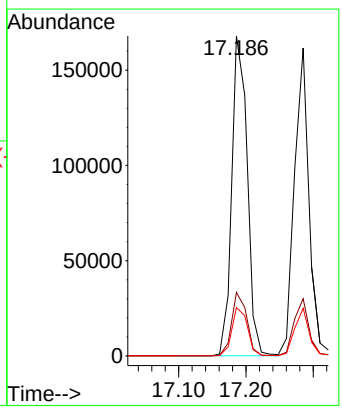


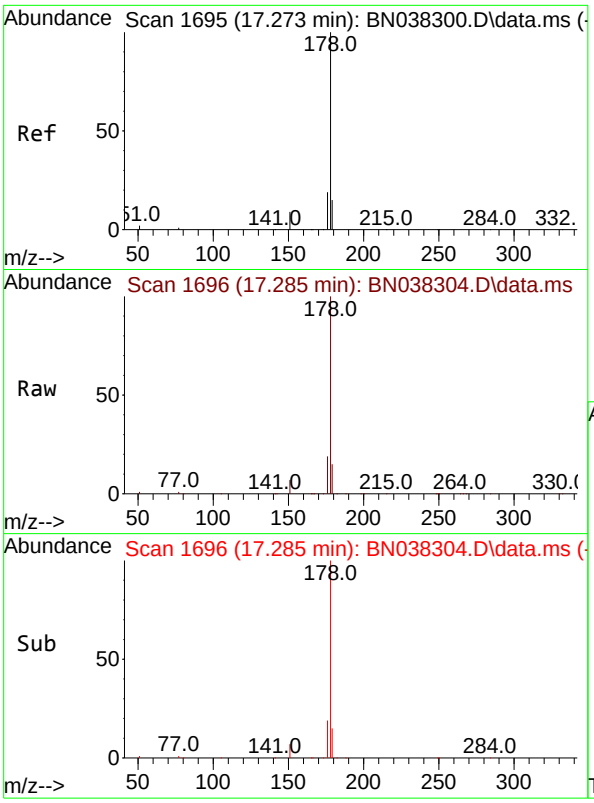


#25
Phenanthrene
Concen: 5.231 ng
RT: 17.186 min Scan# 1688
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Tgt Ion:178 Resp: 269284

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.5	23.3
179	15.2	12.2	18.2



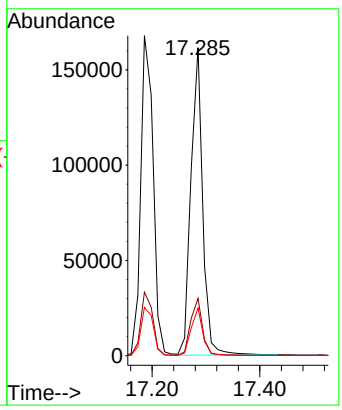


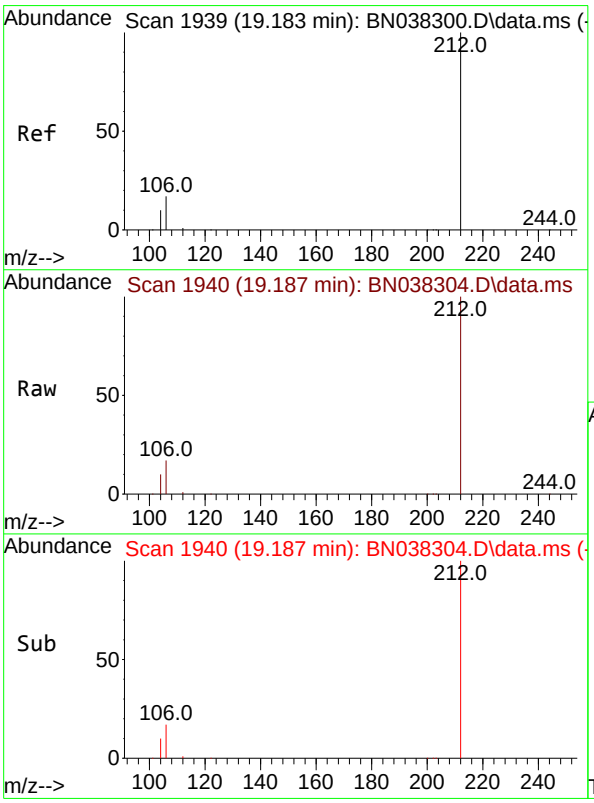
#26
Anthracene
Concen: 5.527 ng
RT: 17.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 245335

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.1	22.7
179	15.3	12.0	18.0

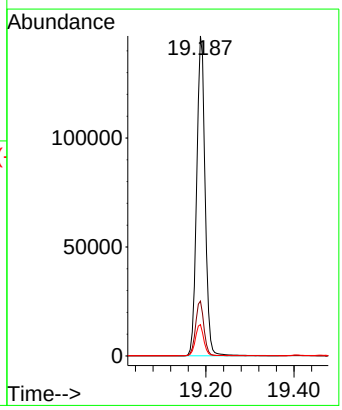


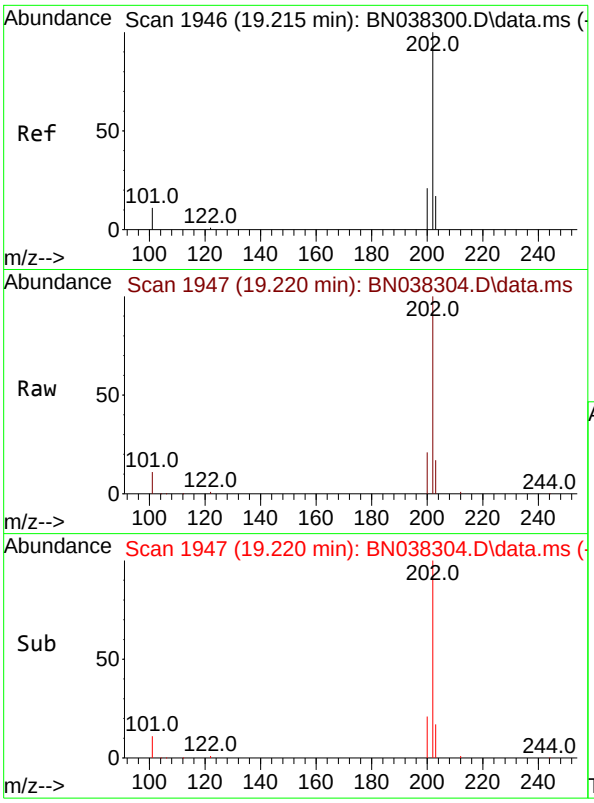


#27
Fluoranthene-d10
Concen: 5.322 ng
RT: 19.187 min Scan# 1940
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Tgt Ion:212 Resp: 194683

Ion	Ratio	Lower	Upper
212	100		
106	17.1	13.7	20.5
104	9.7	7.8	11.8



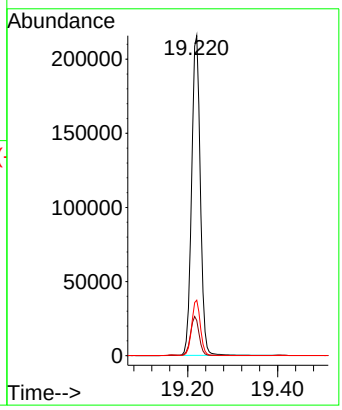


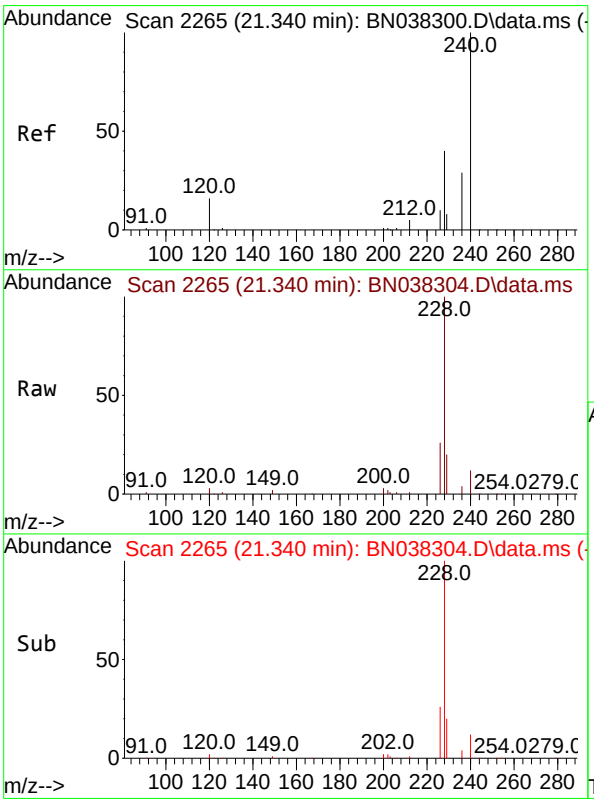
#28
Fluoranthene
Concen: 5.292 ng
RT: 19.220 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:202 Resp: 289557

Ion	Ratio	Lower	Upper
202	100		
101	12.3	9.6	14.4
203	17.2	13.5	20.3

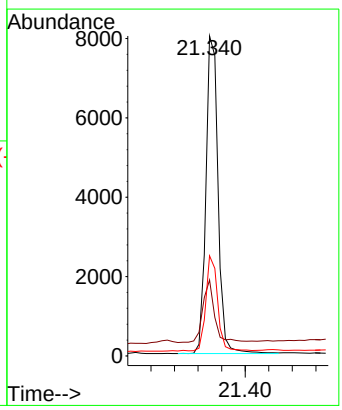


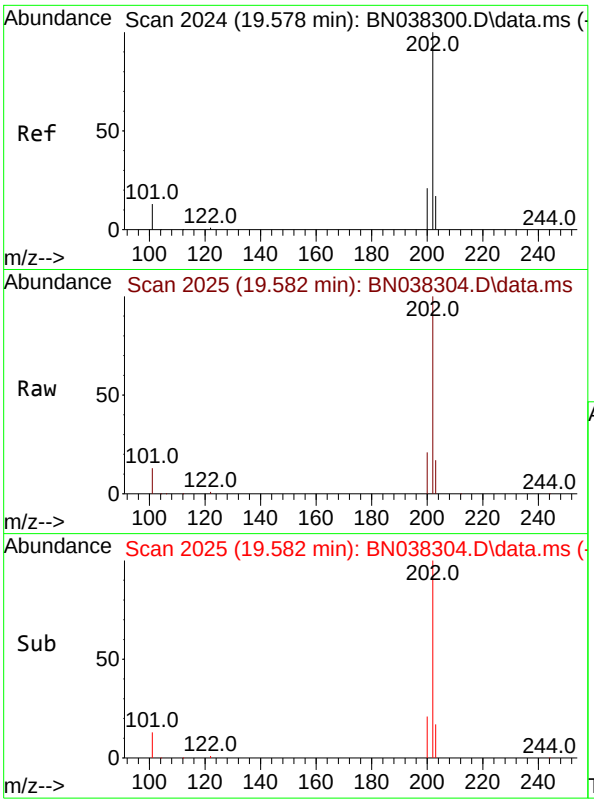


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.340 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Tgt Ion:240 Resp: 11438

Ion	Ratio	Lower	Upper
240	100		
120	23.8	15.4	23.2#
236	31.3	23.9	35.9



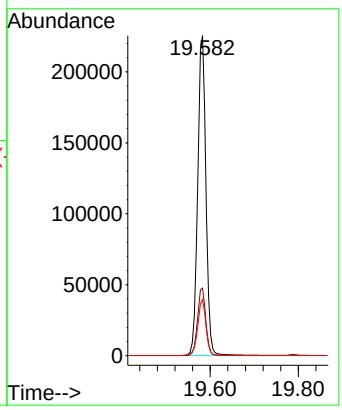


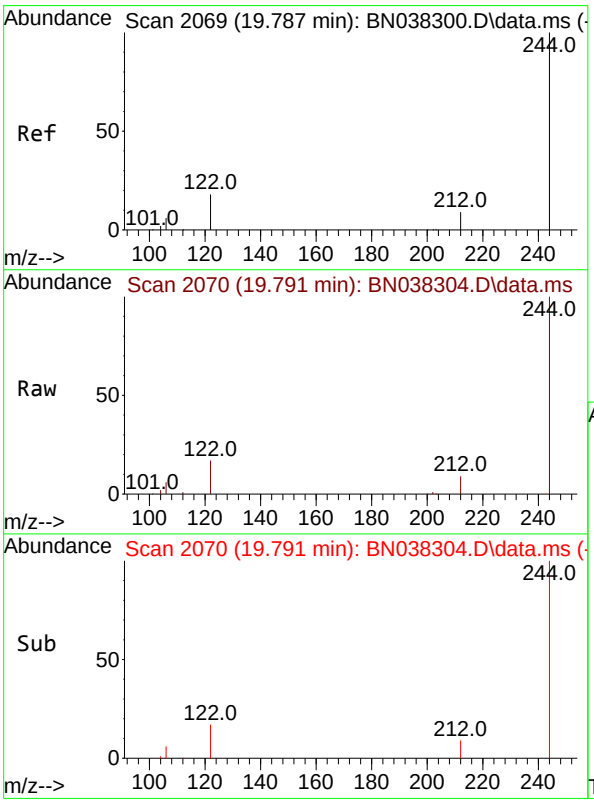
#30
Pyrene
Concen: 5.172 ng
RT: 19.582 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:202 Resp: 291237

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.9	25.3
203	17.7	14.2	21.2

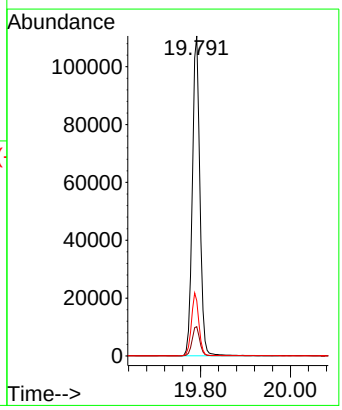


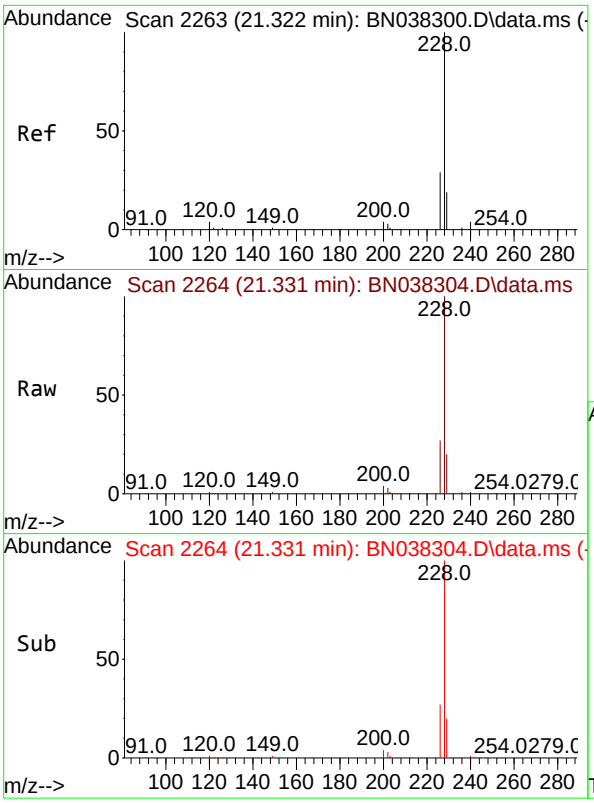


#31
Terphenyl-d14
Concen: 5.061 ng
RT: 19.791 min Scan# 2070
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Tgt Ion:244 Resp: 129183

Ion	Ratio	Lower	Upper
244	100		
212	9.1	7.9	11.9
122	17.2	15.0	22.6



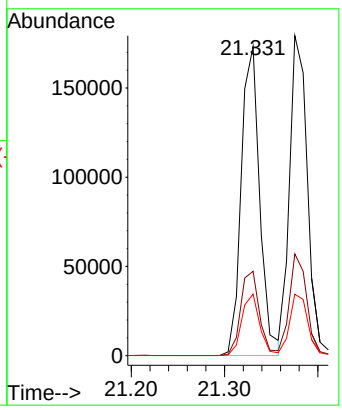


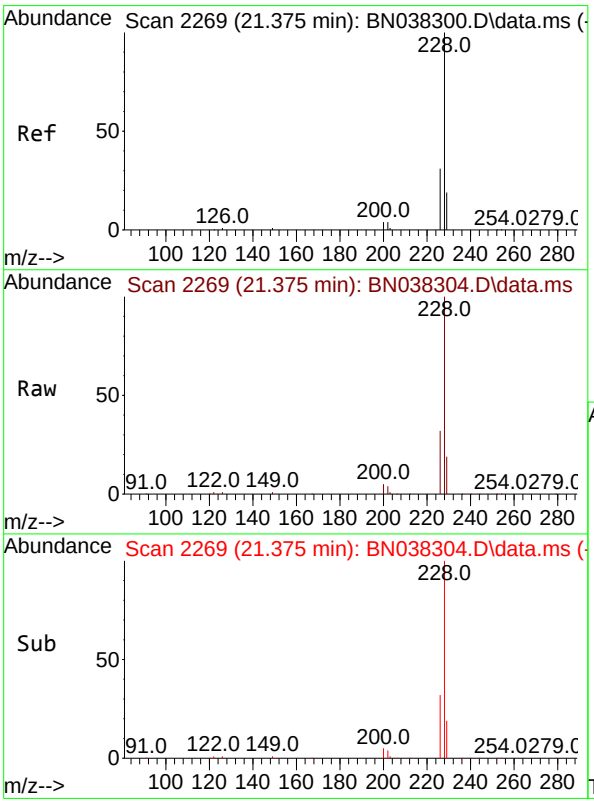
#32
Benzo(a)anthracene
Concen: 5.412 ng
RT: 21.331 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 239112

Ion	Ratio	Lower	Upper
228	100		
226	27.3	23.3	34.9
229	19.9	15.7	23.5

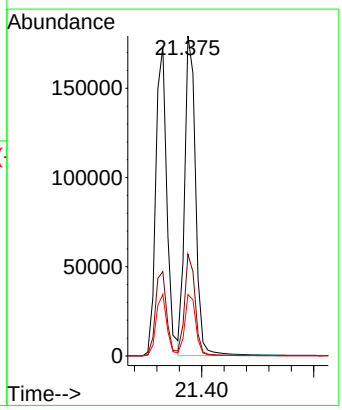


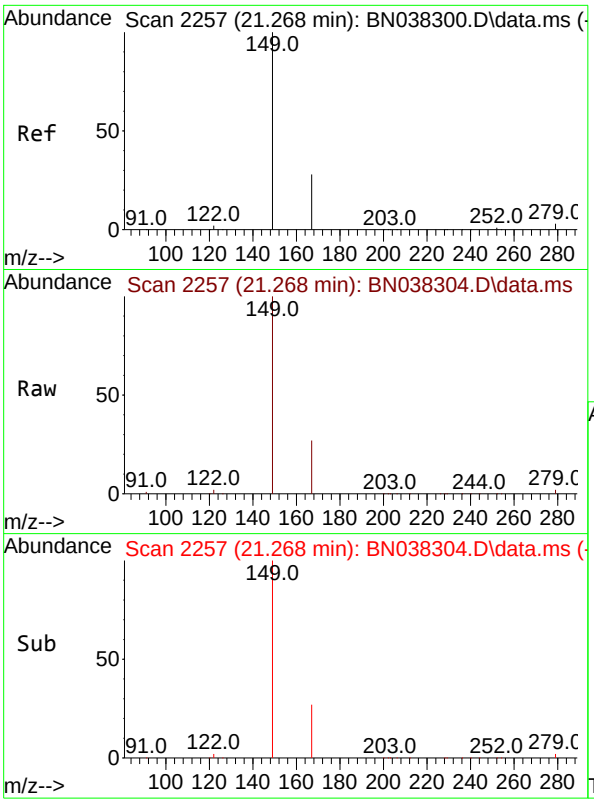


#33
Chrysene
Concen: 4.987 ng
RT: 21.375 min Scan# 2269
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Tgt Ion:228 Resp: 242638

Ion	Ratio	Lower	Upper
228	100		
226	31.8	25.0	37.4
229	19.2	15.5	23.3



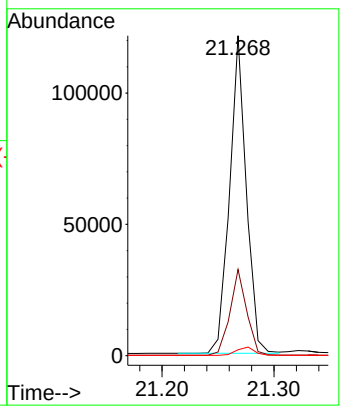


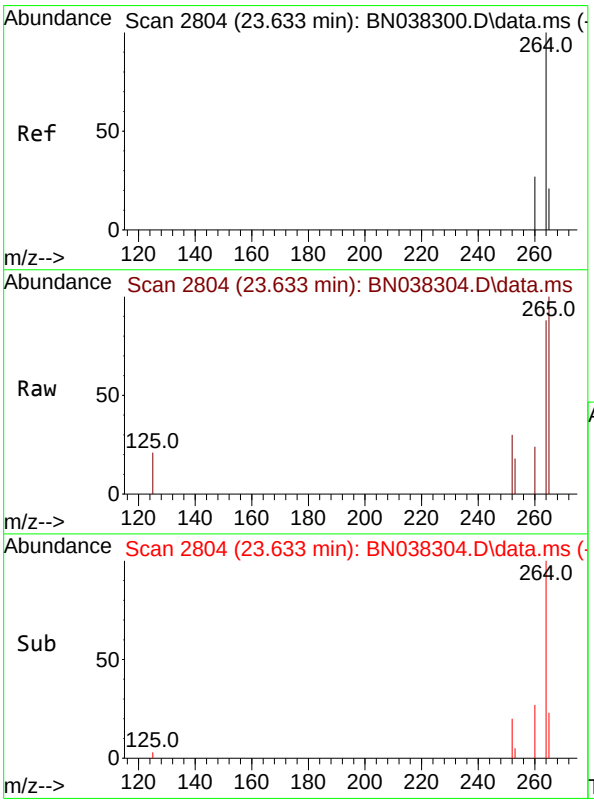
#34
Bis(2-ethylhexyl)phthalate
Concen: 5.186 ng
RT: 21.268 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:149 Resp: 125703

Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.4	32.0
279	2.9	2.4	3.6

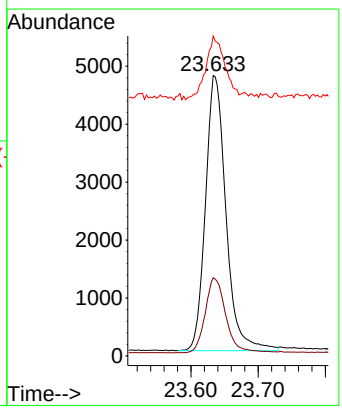


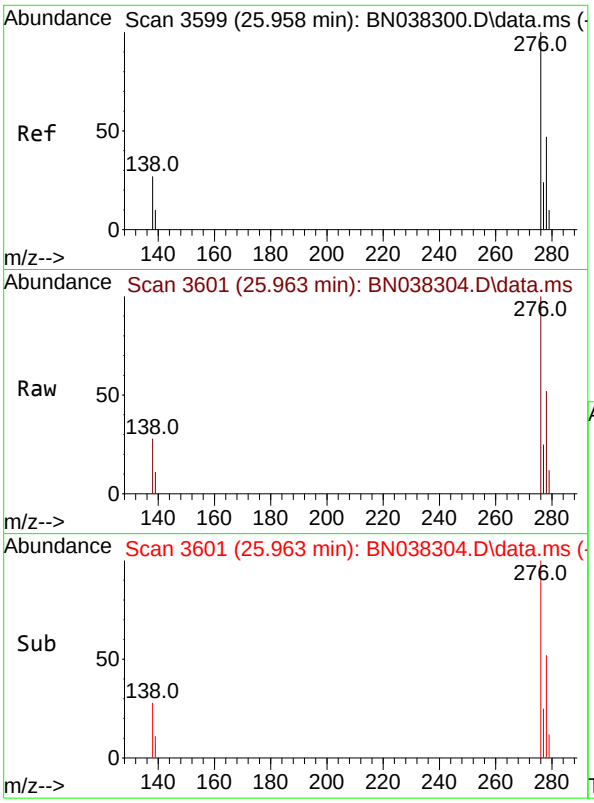


#35
Perylene-d12
Concen: 0.400 ng
RT: 23.633 min Scan# 2804
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Tgt Ion:264 Resp: 10064

Ion	Ratio	Lower	Upper
264	100		
260	27.9	22.2	33.2
265	114.1	80.2	120.2



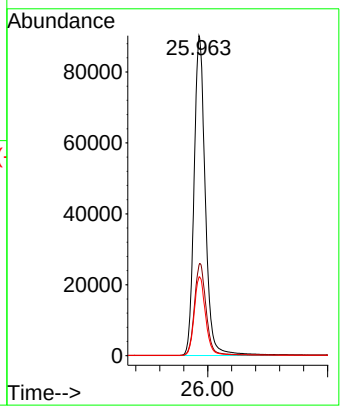


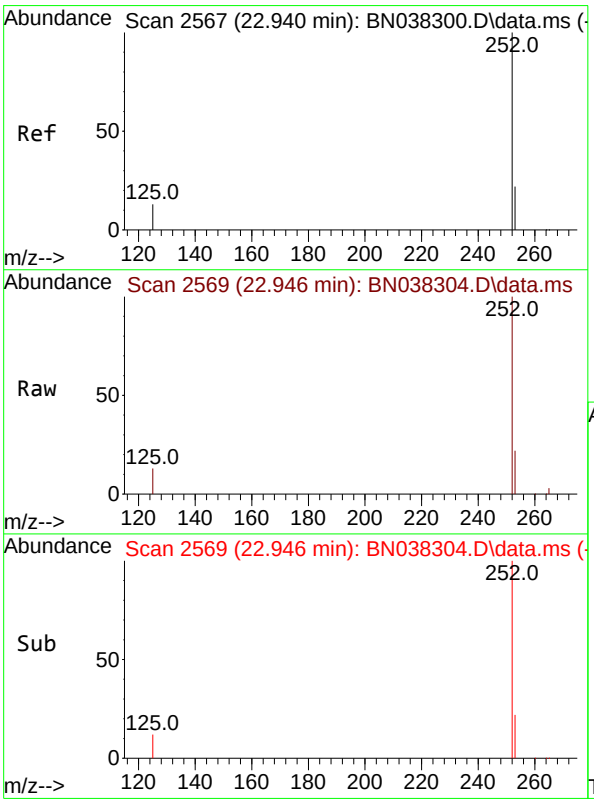
#36
Indeno(1,2,3-cd)pyrene
Concen: 5.489 ng
RT: 25.963 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 293099

Ion	Ratio	Lower	Upper
276	100		
138	29.5	23.6	35.4
277	24.9	19.7	29.5

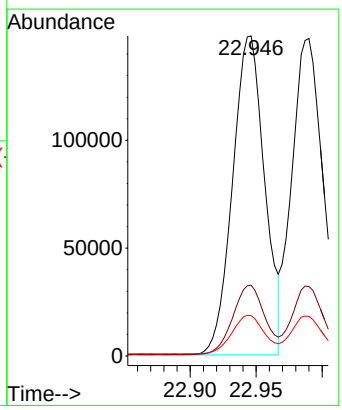


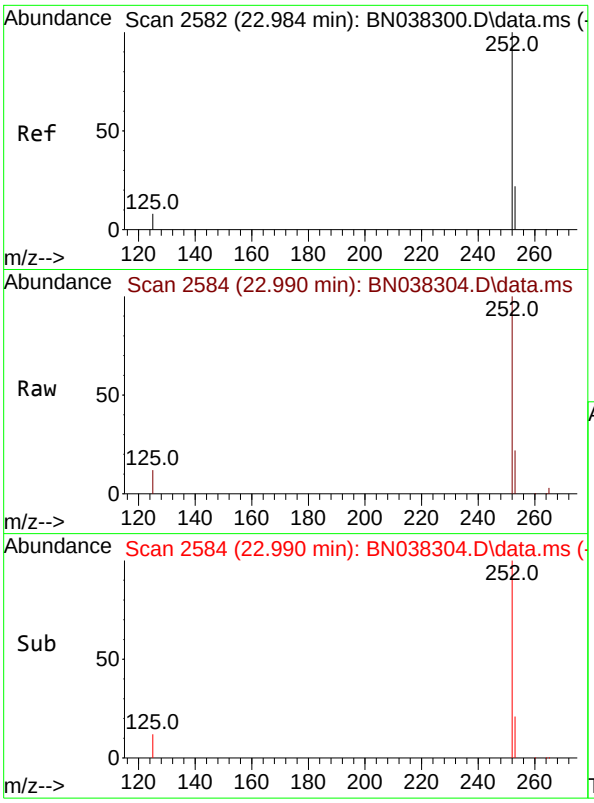


#37
Benzo(b)fluoranthene
Concen: 5.399 ng
RT: 22.946 min Scan# 2569
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Tgt Ion:252 Resp: 249557

Ion	Ratio	Lower	Upper
252	100		
253	22.1	21.1	31.7
125	12.6	16.4	24.6#



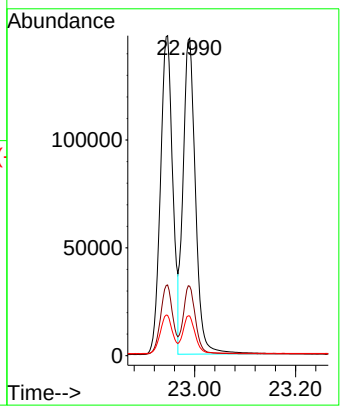


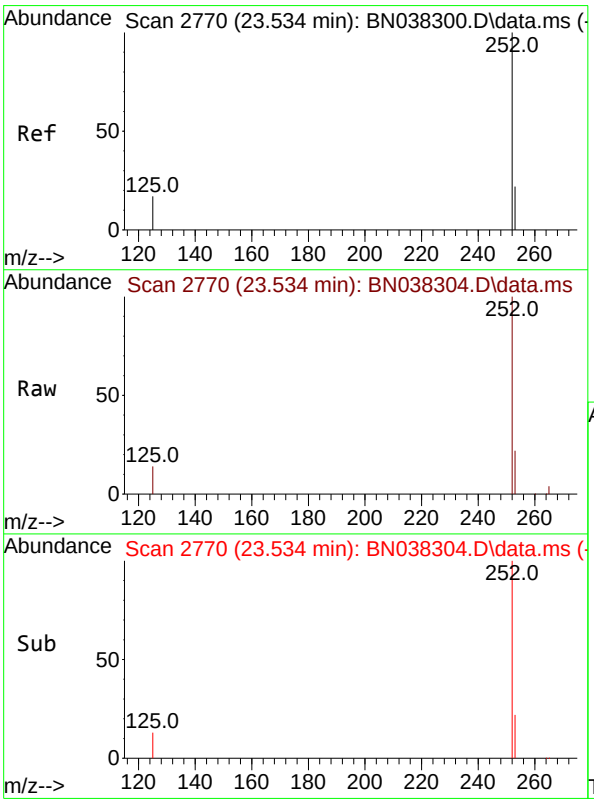
#38
Benzo(k)fluoranthene
Concen: 5.444 ng
RT: 22.990 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 250888

Ion	Ratio	Lower	Upper
252	100		
253	21.9	21.4	32.0
125	12.5	16.2	24.2#

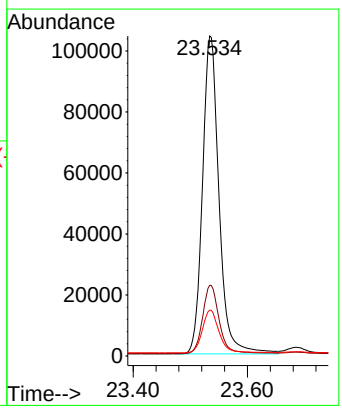


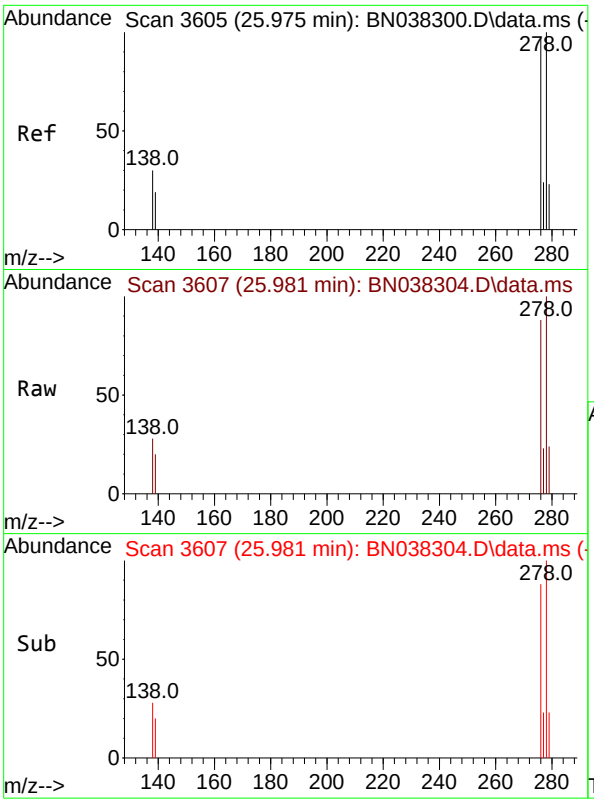


#39
Benzo(a)pyrene
Concen: 5.530 ng
RT: 23.534 min Scan# 2770
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Tgt Ion:252 Resp: 209188

Ion	Ratio	Lower	Upper
252	100		
253	22.1	23.3	34.9#
125	14.3	22.4	33.6#



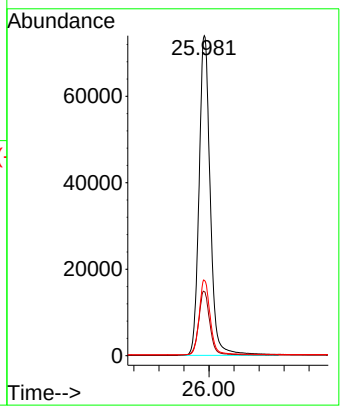


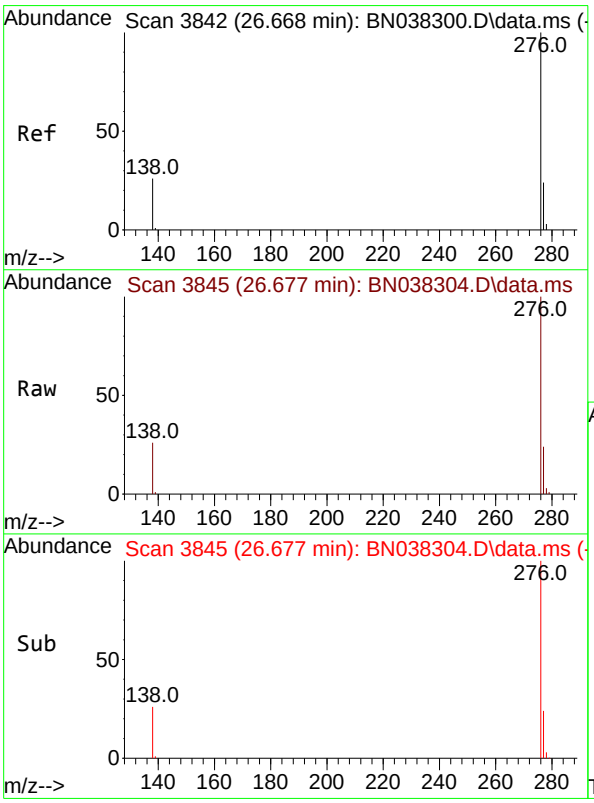
#40
Dibenzo(a,h)anthracene
Concen: 5.567 ng
RT: 25.981 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:278 Resp: 229223

Ion	Ratio	Lower	Upper
278	100		
139	20.0	17.8	26.8
279	23.6	21.3	31.9

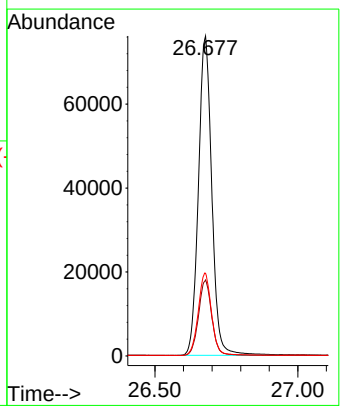




#41
Benzo(g,h,i)perylene
Concen: 5.369 ng
RT: 26.677 min Scan# 3845
Delta R.T. 0.000 min
Lab File: BN038304.D
Acq: 10 Dec 2025 13:30

Tgt Ion:276 Resp: 247112

Ion	Ratio	Lower	Upper
276	100		
277	23.7	20.0	30.0
138	25.9	21.8	32.6



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121025\
Data File : BN038305.D
Acq On : 10 Dec 2025 14:06
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Quant Time: Dec 10 14:34:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	5494	0.400	ng		0.00
7) Naphthalene-d8	10.530	136	14732	0.400	ng		0.00
13) Acenaphthene-d10	14.398	164	7414	0.400	ng		0.00
19) Phenanthrene-d10	17.149	188	13558	0.400	ng	#	0.00
29) Chrysene-d12	21.340	240	10339	0.400	ng		0.00
35) Perylene-d12	23.636	264	9862	0.400	ng	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	5169	0.378	ng		0.00
5) Phenol-d6	6.887	99	5881	0.362	ng		0.00
8) Nitrobenzene-d5	8.875	82	4810	0.387	ng		0.00
11) 2-Methylnaphthalene-d10	12.126	152	8240	0.397	ng		0.00
14) 2,4,6-Tribromophenol	15.895	330	1106	0.336	ng		0.00
15) 2-Fluorobiphenyl	13.008	172	13334	0.373	ng		0.00
27) Fluoranthene-d10	19.187	212	13145	0.392	ng		0.00
31) Terphenyl-d14	19.791	244	9107	0.395	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.196	88	2785	0.442	ng		98
3) n-Nitrosodimethylamine	3.507	42	3219	0.408	ng	#	98
6) bis(2-Chloroethyl)ether	7.147	93	6576	0.413	ng		99
9) Naphthalene	10.573	128	17206	0.395	ng		100
10) Hexachlorobutadiene	10.872	225	3156	0.408	ng	#	99
12) 2-Methylnaphthalene	12.202	142	10135	0.367	ng		99
16) Acenaphthylene	14.110	152	15840	0.435	ng		99
17) Acenaphthene	14.462	154	10069	0.397	ng		98
18) Fluorene	15.446	166	12748	0.391	ng		99
20) 4,6-Dinitro-2-methylph...	15.523	198	733	0.329	ng	#	78
21) 4-Bromophenyl-phenylether	16.342	248	3847	0.382	ng	#	90
22) Hexachlorobenzene	16.466	284	4774	0.395	ng		99
23) Atrazine	16.615	200	2571	0.375	ng		96
24) Pentachlorophenol	16.801	266	1394	0.295	ng		98
25) Phenanthrene	17.186	178	18314	0.388	ng		100
26) Anthracene	17.285	178	16082	0.395	ng		99
28) Fluoranthene	19.220	202	18786	0.375	ng		100
30) Pyrene	19.582	202	19552	0.384	ng		100
32) Benzo(a)anthracene	21.331	228	15962	0.400	ng		98
33) Chrysene	21.375	228	17443	0.397	ng		99
34) Bis(2-ethylhexyl)phtha...	21.268	149	8119	0.371	ng		99
36) Indeno(1,2,3-cd)pyrene	25.966	276	19287	0.369	ng		99
37) Benzo(b)fluoranthene	22.943	252	17623	0.389	ng		98
38) Benzo(k)fluoranthene	22.990	252	17707	0.392	ng		98
39) Benzo(a)pyrene	23.534	252	15048	0.406	ng		98
40) Dibenzo(a,h)anthracene	25.987	278	15615	0.387	ng		98
41) Benzo(g,h,i)perylene	26.671	276	16981	0.377	ng		99

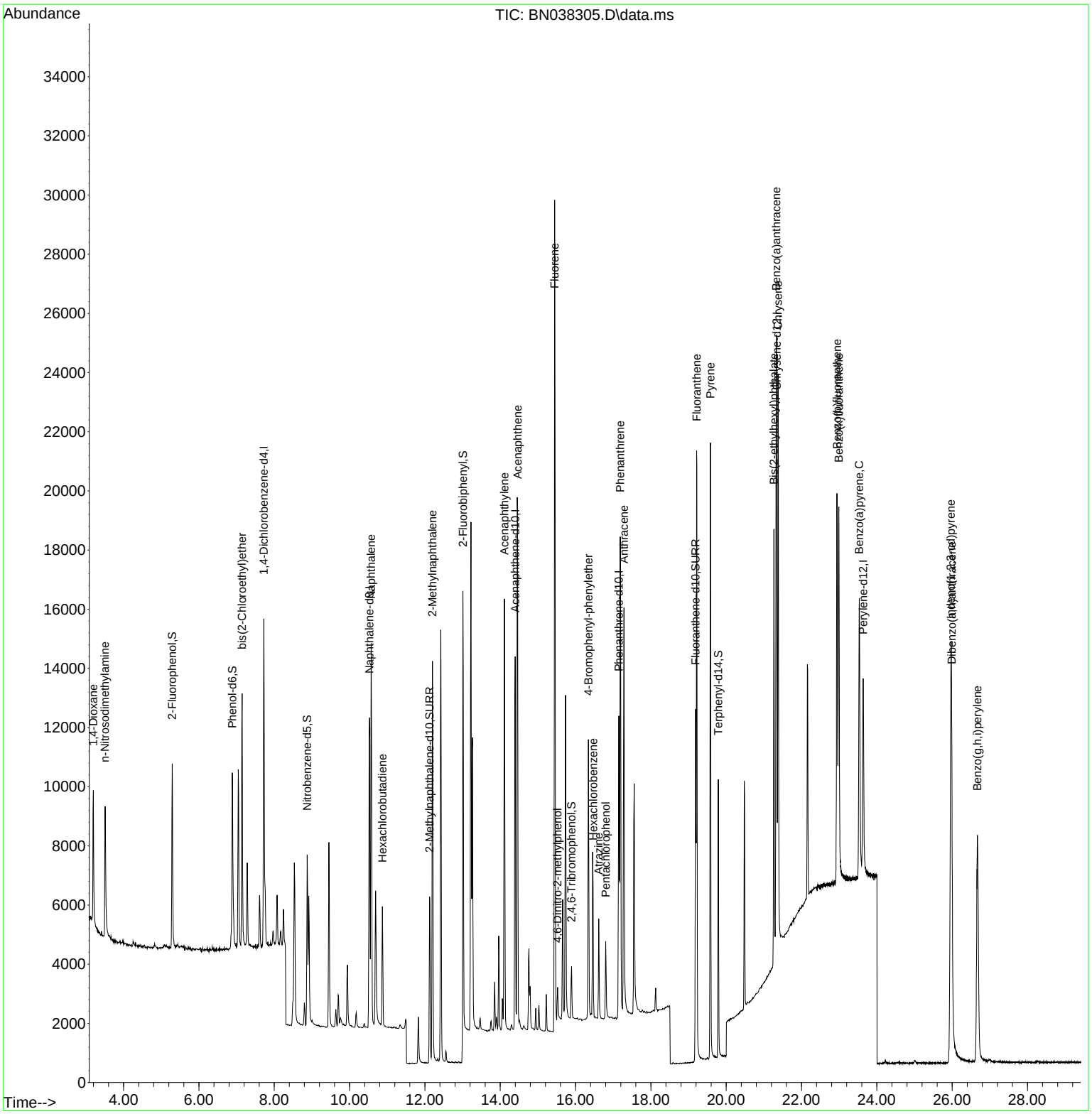
(#) = qualifier out of range (m) = manual integration (+) = signals summed

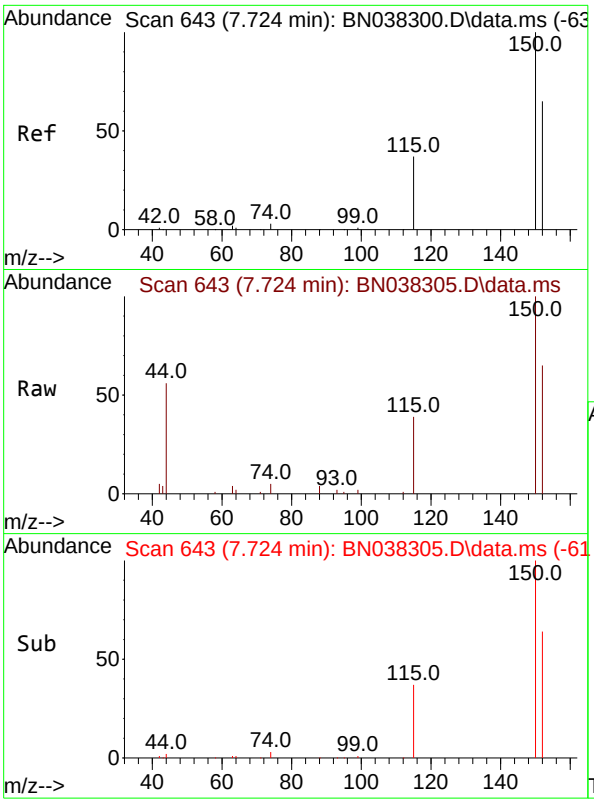
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121025\
Data File : BN038305.D
Acq On : 10 Dec 2025 14:06
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Quant Time: Dec 10 14:34:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration



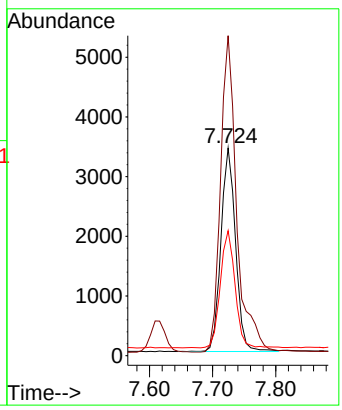


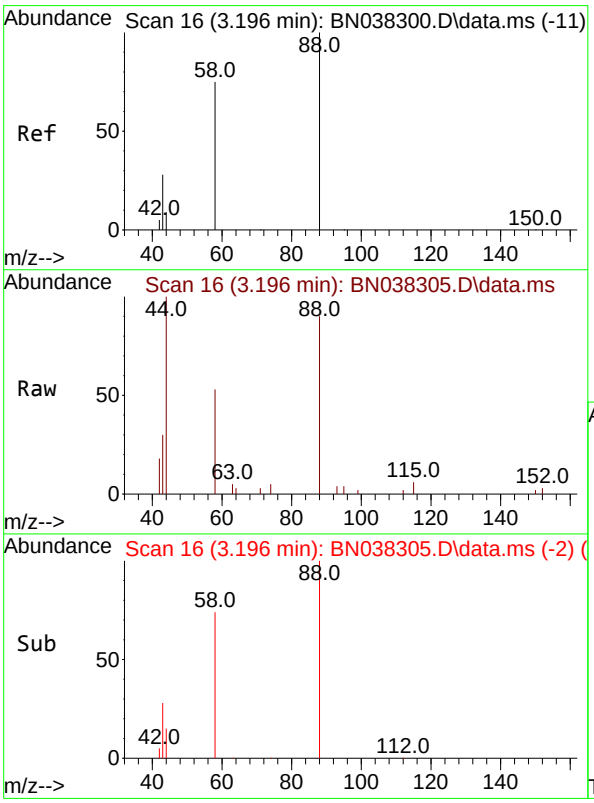
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Tgt Ion:152 Resp: 5494

Ion	Ratio	Lower	Upper
152	100		
150	154.1	122.4	183.6
115	60.2	47.3	70.9

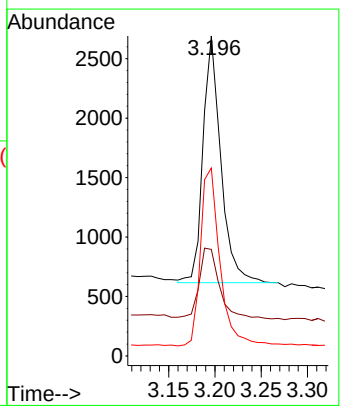


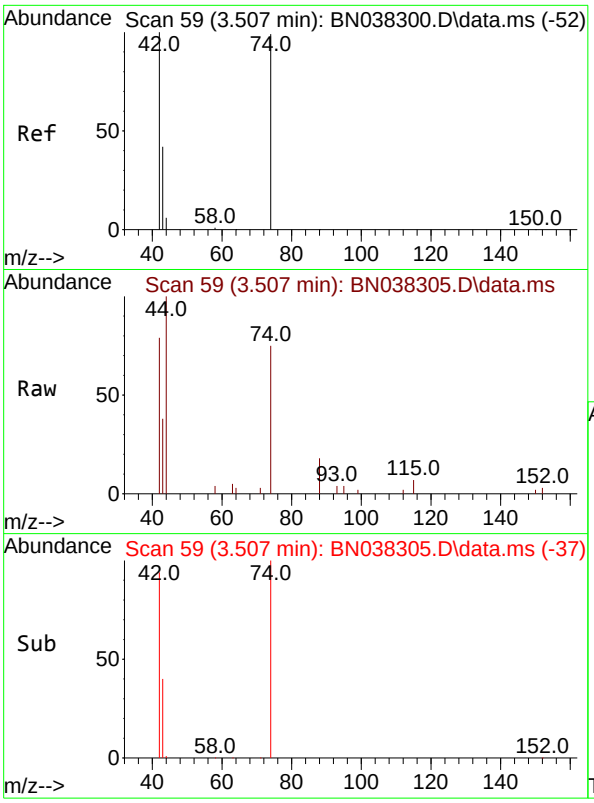


#2
1,4-Dioxane
Concen: 0.442 ng
RT: 3.196 min Scan# 16
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Tgt Ion: 88 Resp: 2785

Ion	Ratio	Lower	Upper
88	100		
43	32.6	24.9	37.3
58	78.3	61.4	92.0



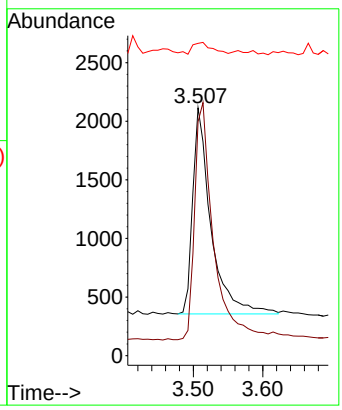


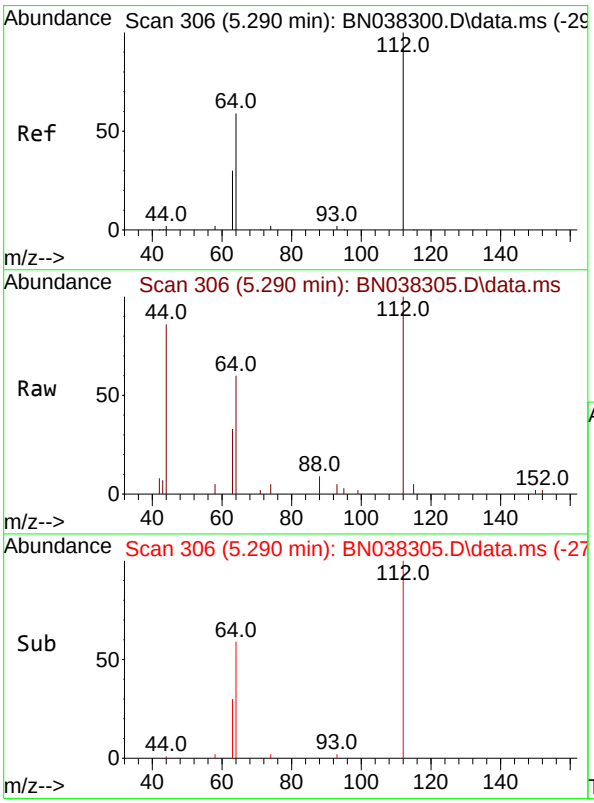
#3
n-Nitrosodimethylamine
Concen: 0.408 ng
RT: 3.507 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Tgt Ion: 42 Resp: 3219

Ion	Ratio	Lower	Upper
42	100		
74	120.1	95.3	142.9
44	5.9	7.9	11.9#

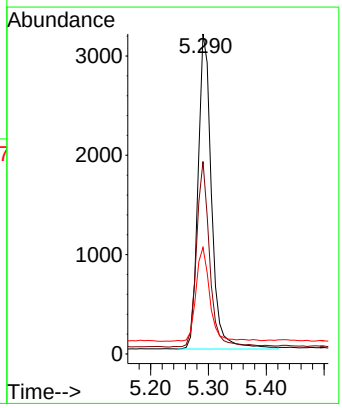


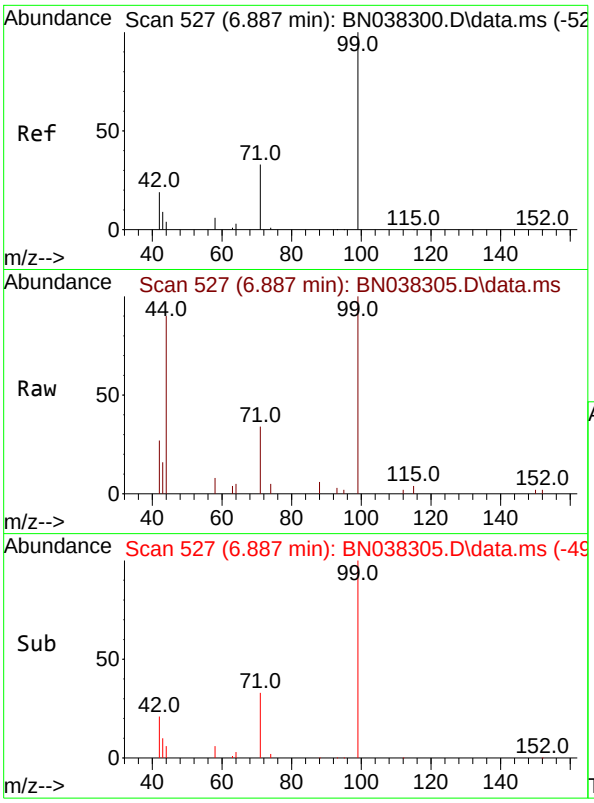


#4
2-Fluorophenol
Concen: 0.378 ng
RT: 5.290 min Scan# 306
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Tgt Ion:112 Resp: 5169

Ion	Ratio	Lower	Upper
112	100		
64	57.1	44.4	66.6
63	30.5	23.4	35.0



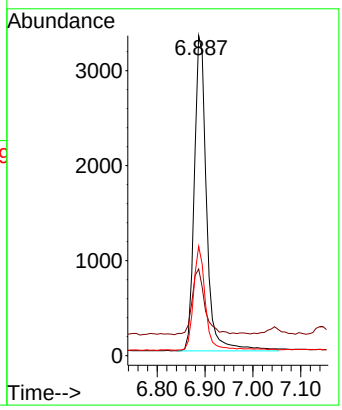


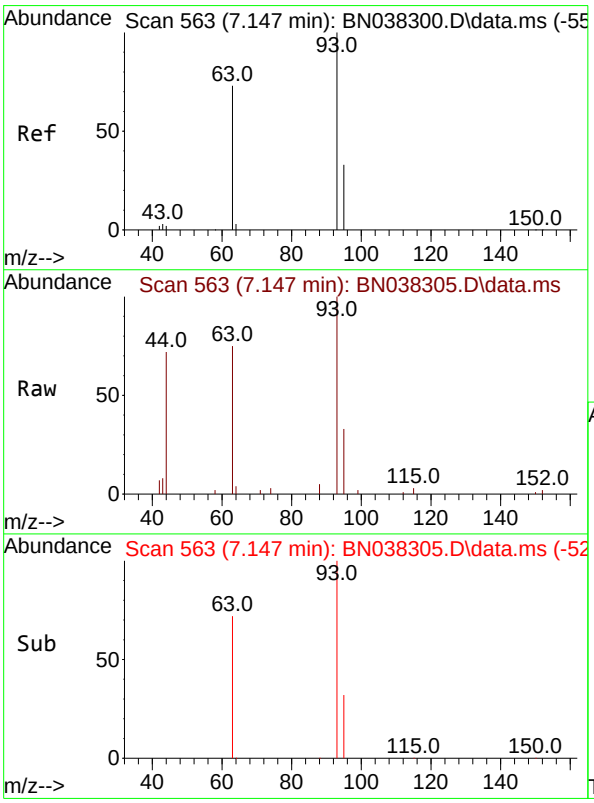
#5
Phenol-d6
Concen: 0.362 ng
RT: 6.887 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Tgt Ion: 99 Resp: 5881

Ion	Ratio	Lower	Upper
99	100		
42	22.1	16.5	24.7
71	32.1	24.9	37.3

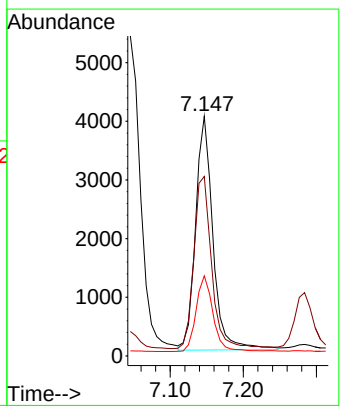


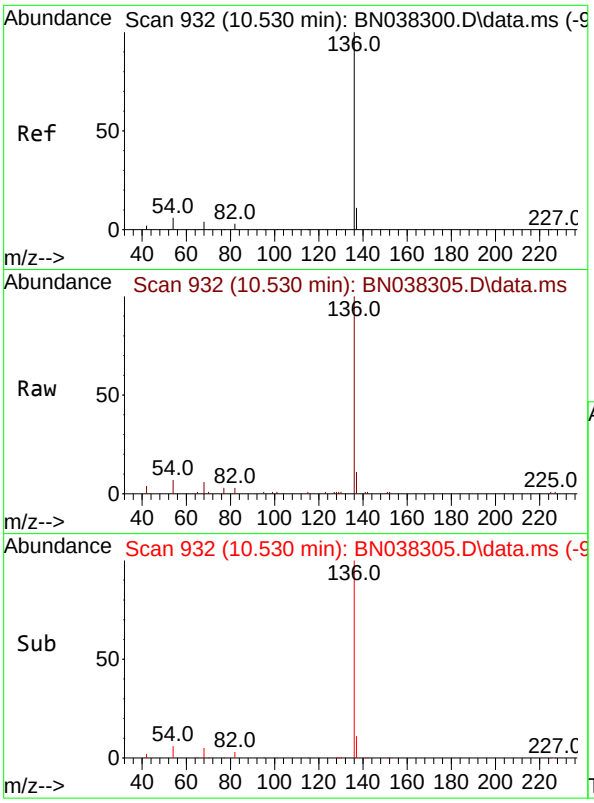


#6
bis(2-Chloroethyl)ether
Concen: 0.413 ng
RT: 7.147 min Scan# 563
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Tgt Ion: 93 Resp: 6576

Ion	Ratio	Lower	Upper
93	100		
63	75.5	59.2	88.8
95	31.8	25.2	37.8



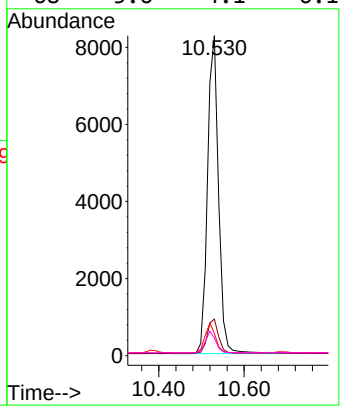


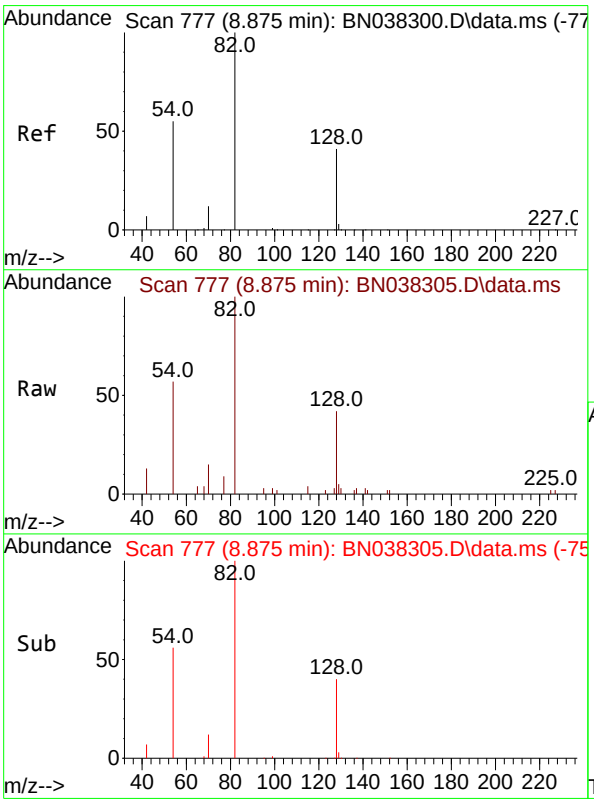
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.530 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Tgt Ion:136 Resp: 14732

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	6.9	5.2	7.8
68	5.6	4.1	6.1

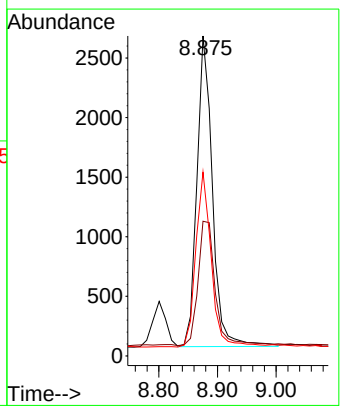


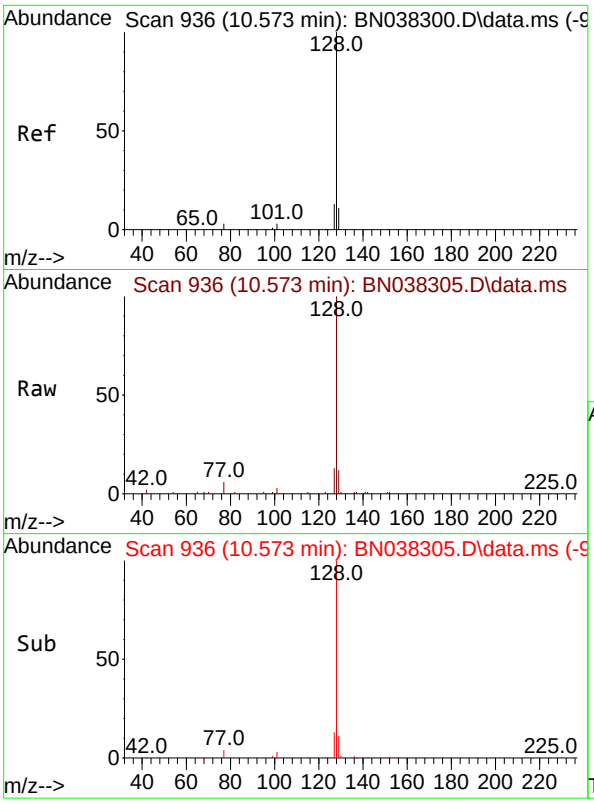


#8
Nitrobenzene-d5
Concen: 0.387 ng
RT: 8.875 min Scan# 777
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Tgt Ion: 82 Resp: 4810

Ion	Ratio	Lower	Upper
82	100		
128	42.1	34.0	51.0
54	57.4	44.4	66.6



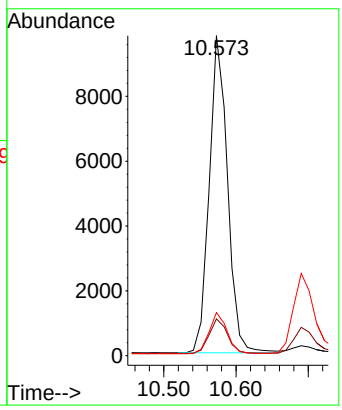


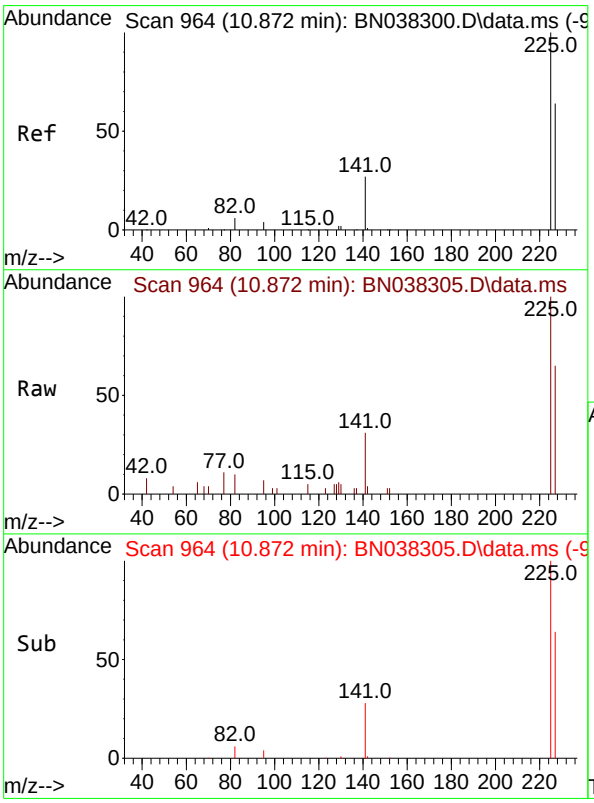
#9
Naphthalene
Concen: 0.395 ng
RT: 10.573 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Tgt Ion:128 Resp: 17206

Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.1	13.7
127	13.5	10.9	16.3

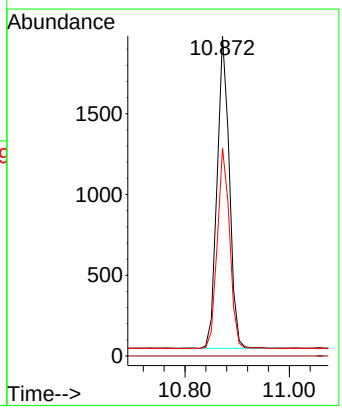


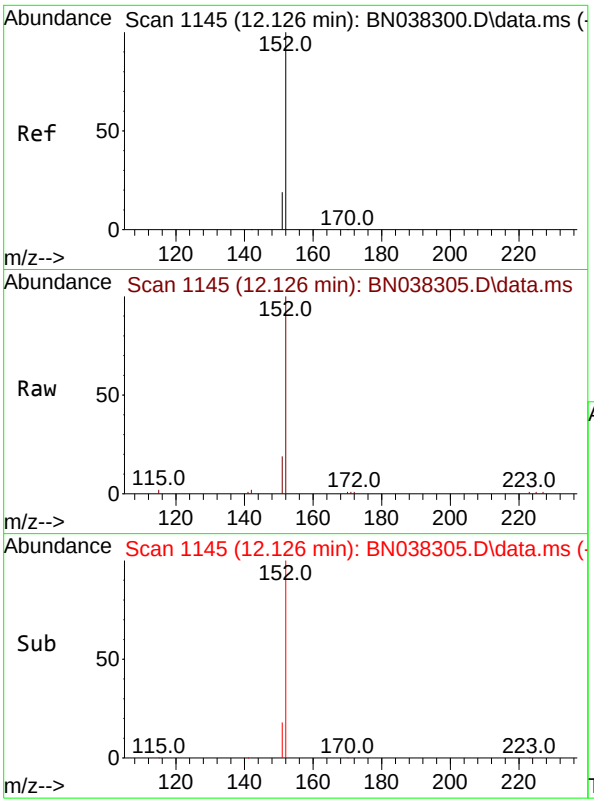


#10
Hexachlorobutadiene
Concen: 0.408 ng
RT: 10.872 min Scan# 964
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Tgt Ion:225 Resp: 3156

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	51.2	76.8



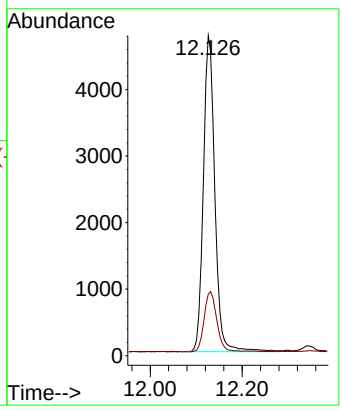


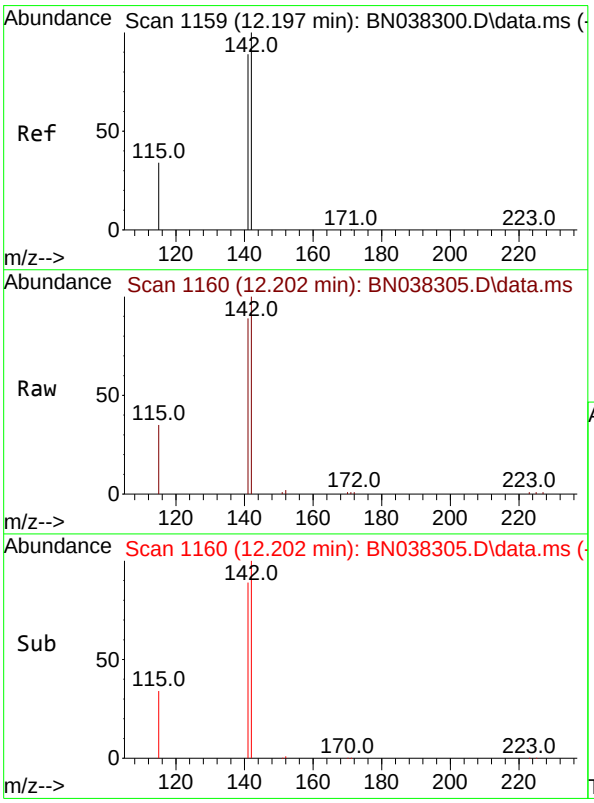
#11
2-Methylnaphthalene-d10
Concen: 0.397 ng
RT: 12.126 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Tgt Ion:152 Resp: 8240

Ion	Ratio	Lower	Upper
152	100		
151	21.0	17.0	25.6

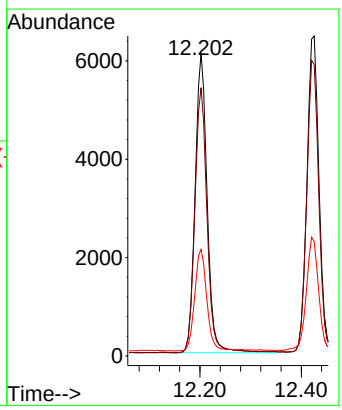


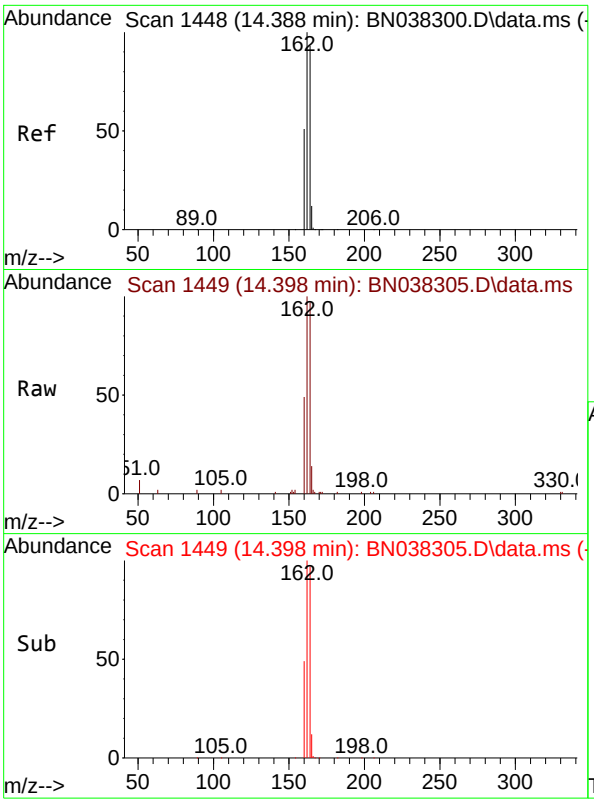


#12
2-Methylnaphthalene
Concen: 0.367 ng
RT: 12.202 min Scan# 1160
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Tgt Ion:142 Resp: 10135

Ion	Ratio	Lower	Upper
142	100		
141	88.7	71.4	107.2
115	35.2	28.4	42.6



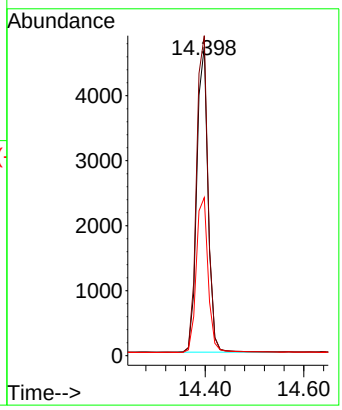


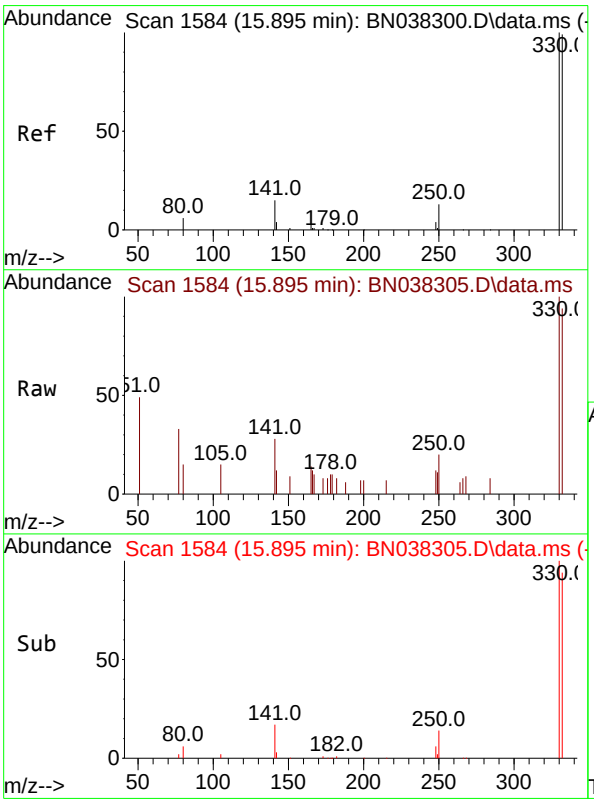
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.398 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Tgt Ion:164 Resp: 7414

Ion	Ratio	Lower	Upper
164	100		
162	103.6	86.2	129.4
160	51.1	44.6	67.0

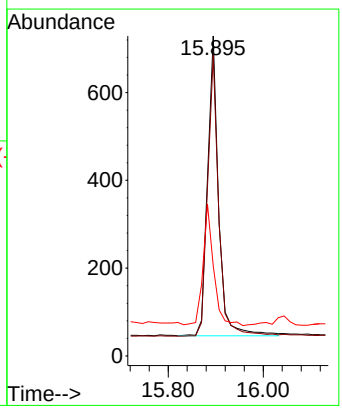


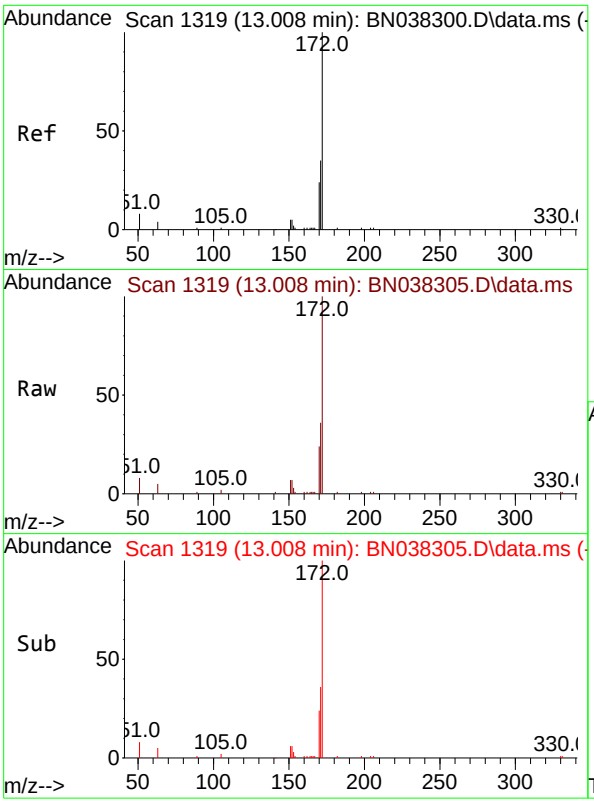


#14
2,4,6-Tribromophenol
Concen: 0.336 ng
RT: 15.895 min Scan# 1584
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Tgt Ion:330 Resp: 1106

Ion	Ratio	Lower	Upper
330	100		
332	94.6	75.8	113.6
141	37.6	31.8	47.8



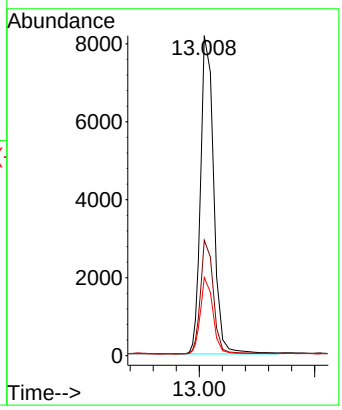


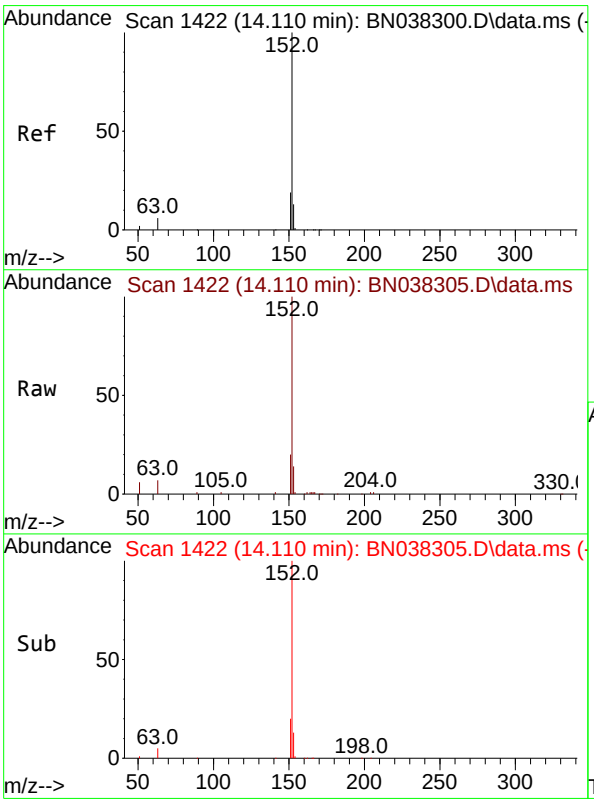
#15
2-Fluorobiphenyl
Concen: 0.373 ng
RT: 13.008 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Tgt Ion:172 Resp: 13334

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.6	42.8
170	24.4	19.3	28.9

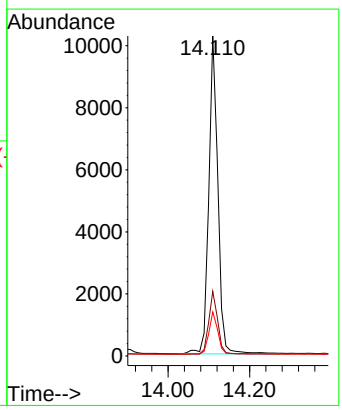


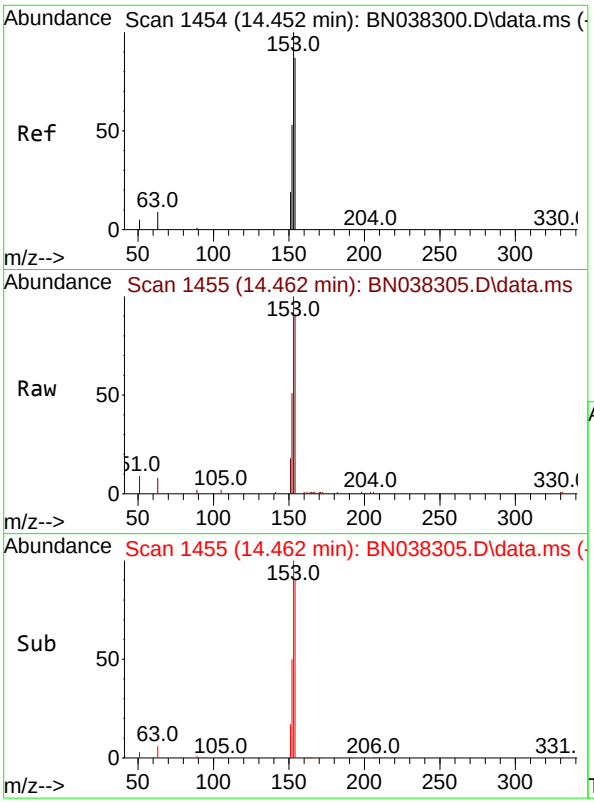


#16
Acenaphthylene
Concen: 0.435 ng
RT: 14.110 min Scan# 1422
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Tgt Ion:152 Resp: 15840

Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.4	23.2
153	13.1	10.2	15.4



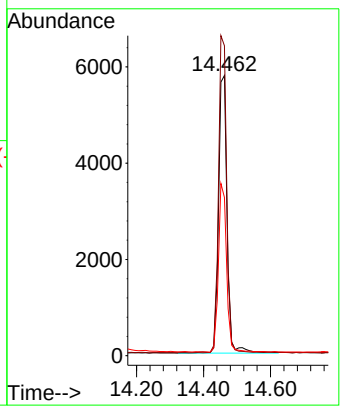


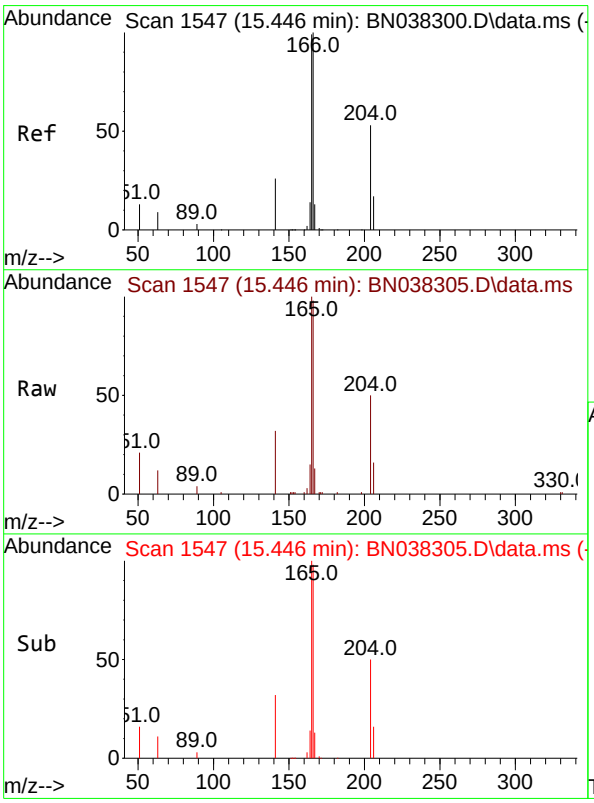
#17
Acenaphthene
Concen: 0.397 ng
RT: 14.462 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Tgt Ion:154 Resp: 10069

Ion	Ratio	Lower	Upper
154	100		
153	110.0	89.8	134.8
152	57.8	47.5	71.3

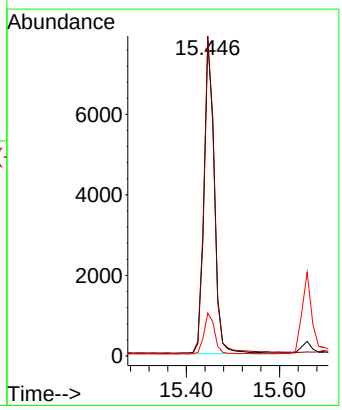


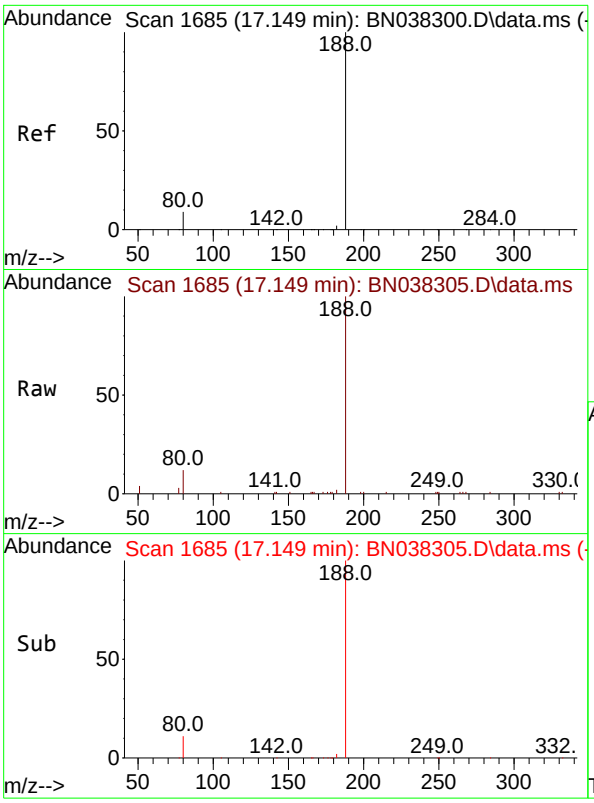


#18
Fluorene
Concen: 0.391 ng
RT: 15.446 min Scan# 1547
Delta R.T. -0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Tgt Ion:166 Resp: 12748

Ion	Ratio	Lower	Upper
166	100		
165	99.6	80.2	120.4
167	13.1	10.6	16.0



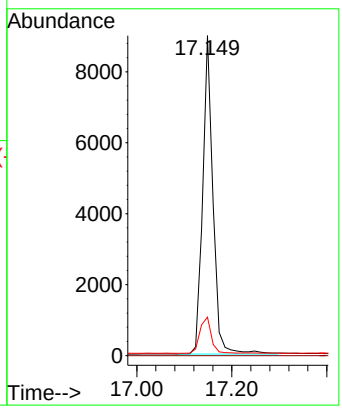


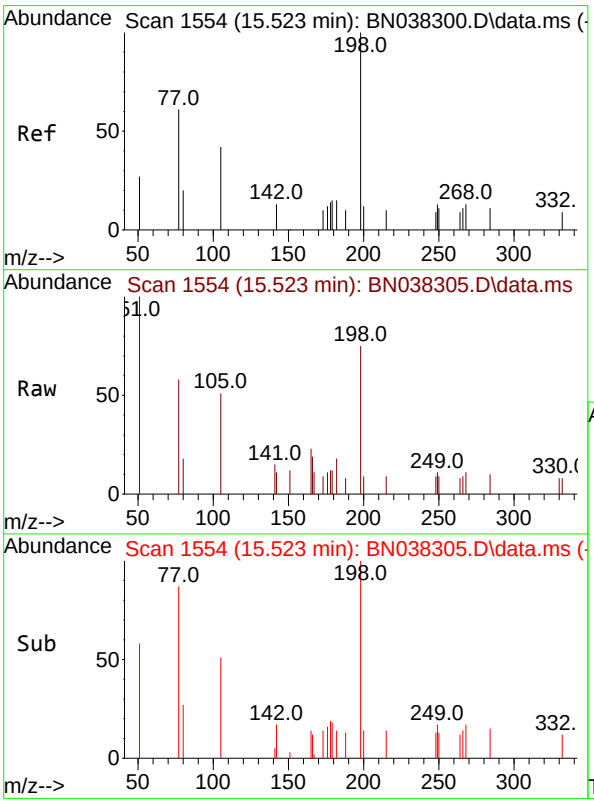
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.149 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Tgt Ion:188 Resp: 13558

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.0	7.4	11.0#

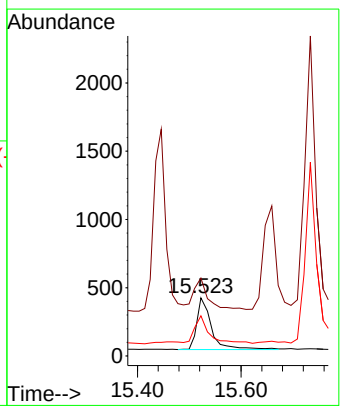


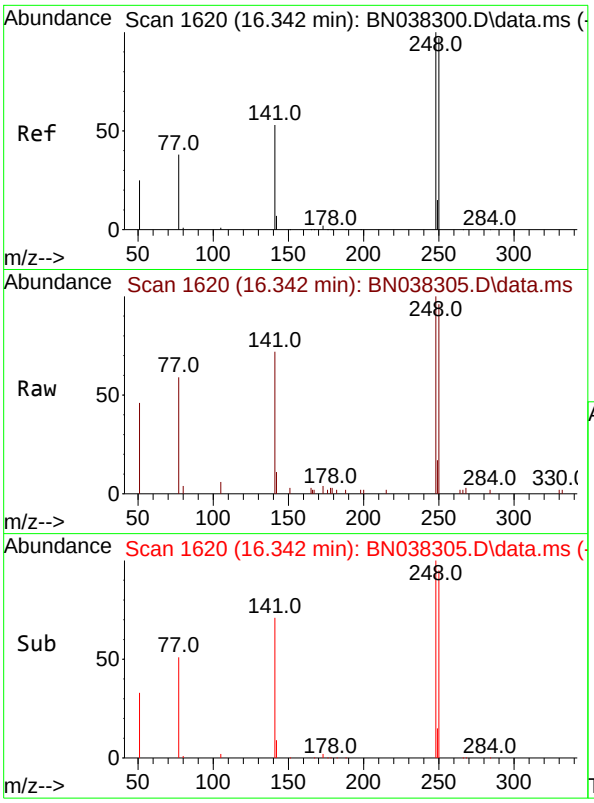


#20
4,6-Dinitro-2-methylphenol
Concen: 0.329 ng
RT: 15.523 min Scan# 1554
Delta R.T. 0.001 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Tgt Ion:198 Resp: 733

Ion	Ratio	Lower	Upper
198	100		
51	134.0	86.3	129.5#
105	69.0	45.3	67.9#



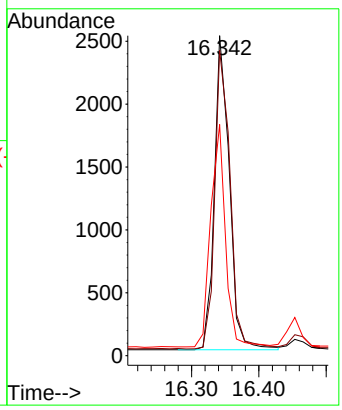


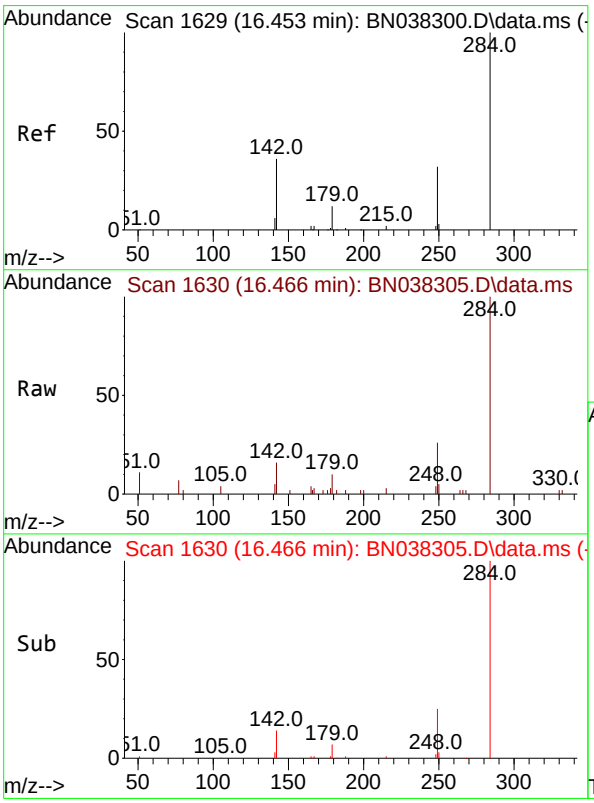
#21
4-Bromophenyl-phenylether
Concen: 0.382 ng
RT: 16.342 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Tgt Ion:248 Resp: 3847

Ion	Ratio	Lower	Upper
248	100		
250	95.5	78.2	117.2
141	72.2	43.7	65.5#

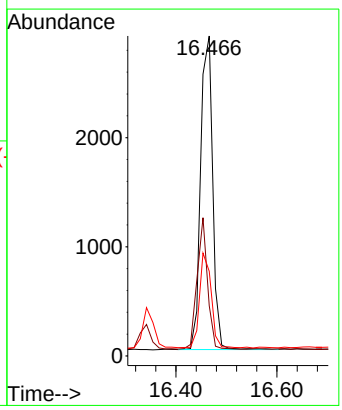


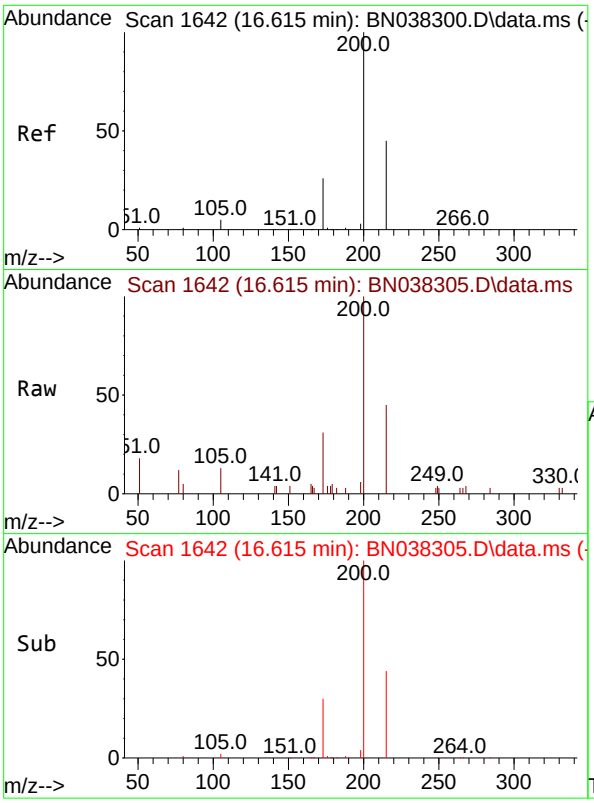


#22
Hexachlorobenzene
Concen: 0.395 ng
RT: 16.466 min Scan# 1630
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Tgt Ion:284 Resp: 4774

Ion	Ratio	Lower	Upper
284	100		
142	36.3	29.5	44.3
249	29.1	23.7	35.5



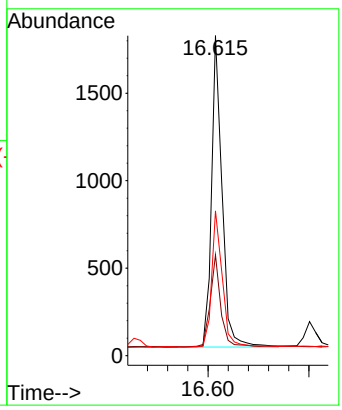


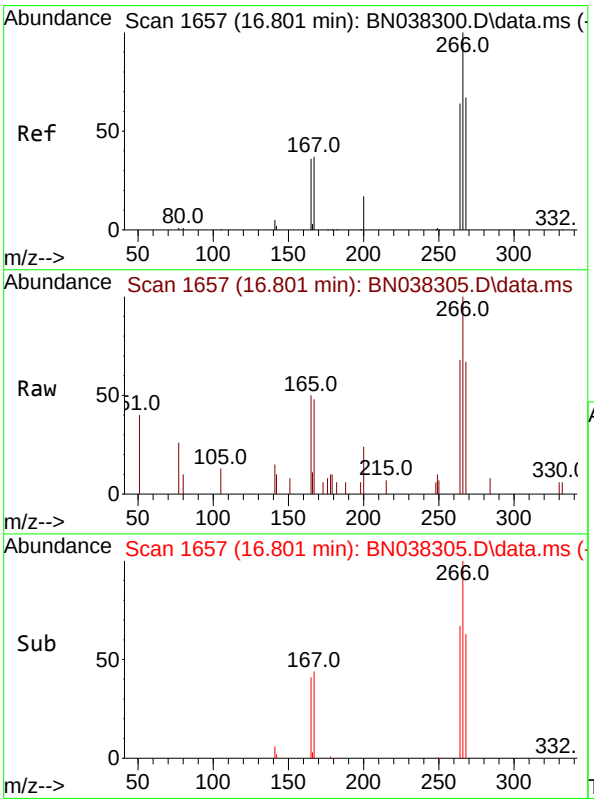
#23
Atrazine
Concen: 0.375 ng
RT: 16.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Tgt Ion:200 Resp: 2571

Ion	Ratio	Lower	Upper
200	100		
173	31.5	22.1	33.1
215	45.3	37.4	56.2

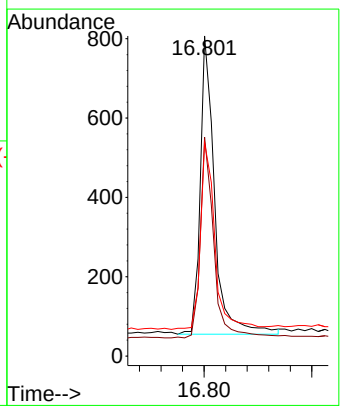


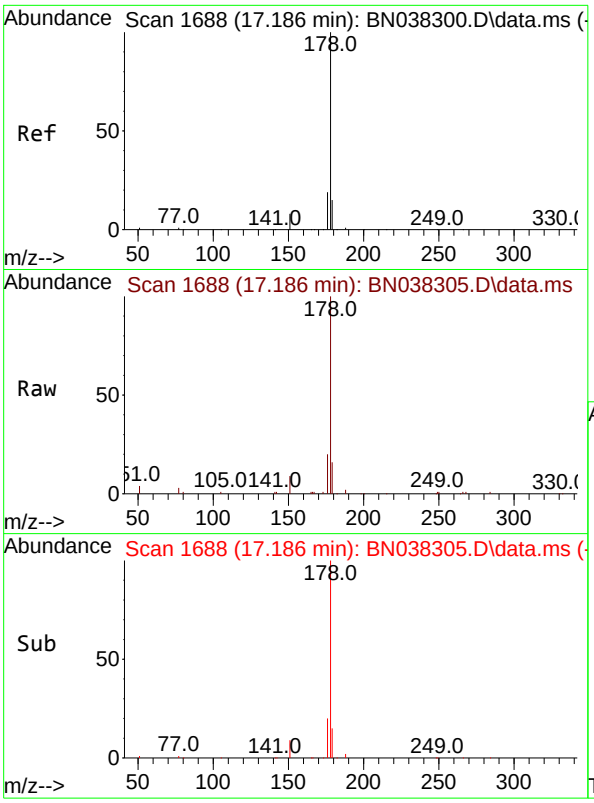


#24
Pentachlorophenol
Concen: 0.295 ng
RT: 16.801 min Scan# 1657
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Tgt Ion:266 Resp: 1394

Ion	Ratio	Lower	Upper
266	100		
264	63.1	50.2	75.2
268	62.9	52.6	78.8



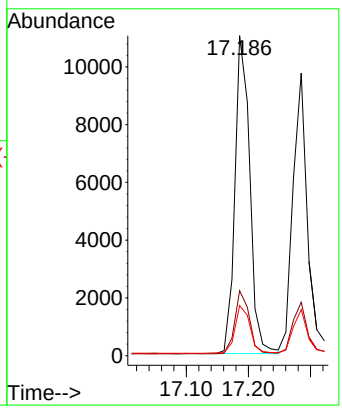


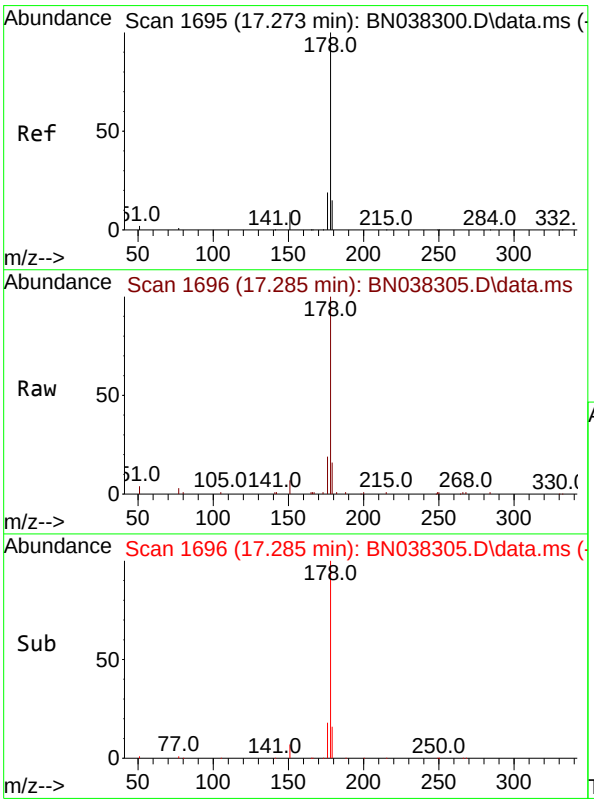
#25
Phenanthrene
Concen: 0.388 ng
RT: 17.186 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Tgt Ion:178 Resp: 18314

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.5	23.3
179	15.2	12.2	18.2

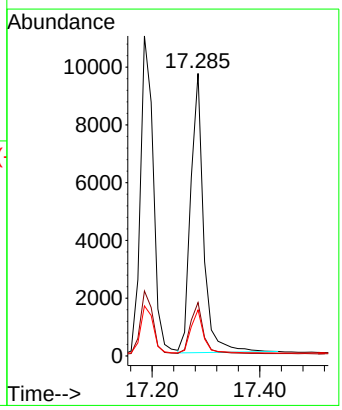


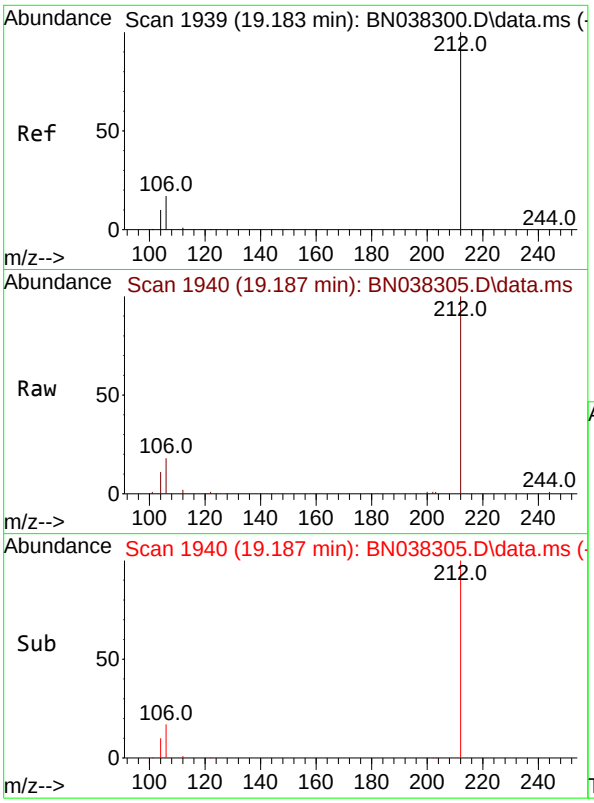


#26
Anthracene
Concen: 0.395 ng
RT: 17.285 min Scan# 1696
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Tgt Ion:178 Resp: 16082

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.1	22.7
179	15.8	12.0	18.0



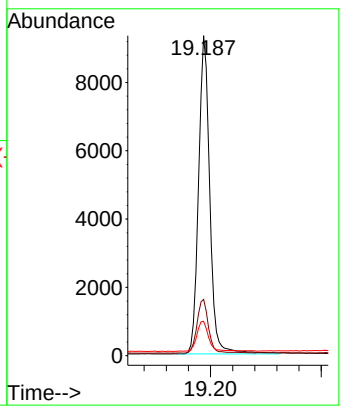


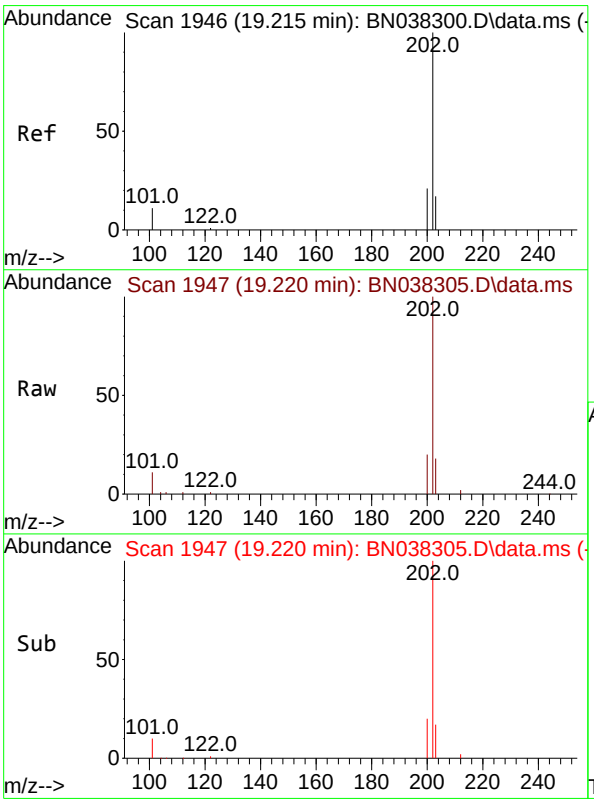
#27
Fluoranthene-d10
Concen: 0.392 ng
RT: 19.187 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Tgt Ion:212 Resp: 13145

Ion	Ratio	Lower	Upper
212	100		
106	17.4	13.7	20.5
104	10.0	7.8	11.8

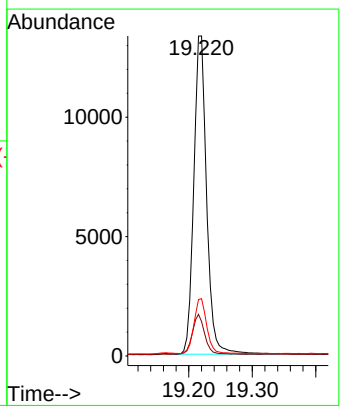


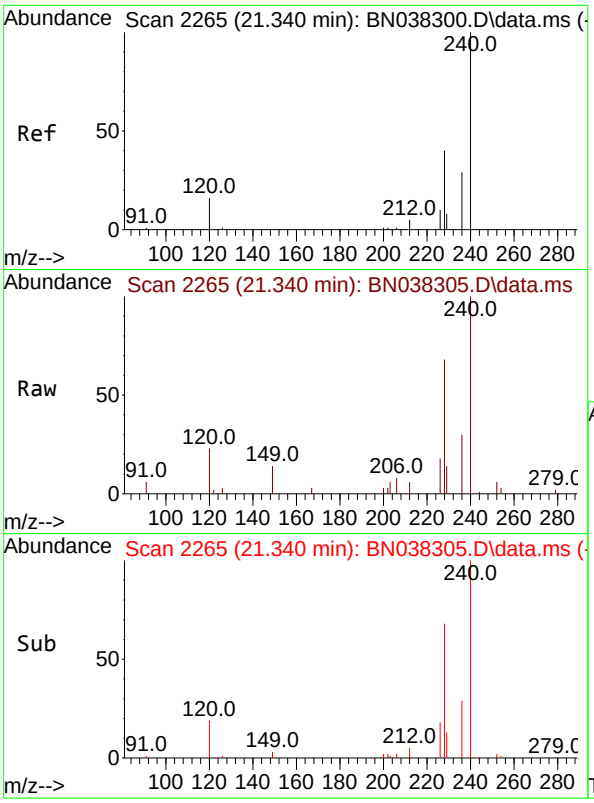


#28
Fluoranthene
Concen: 0.375 ng
RT: 19.220 min Scan# 1947
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Tgt Ion:202 Resp: 18786

Ion	Ratio	Lower	Upper
202	100		
101	12.0	9.6	14.4
203	17.0	13.5	20.3



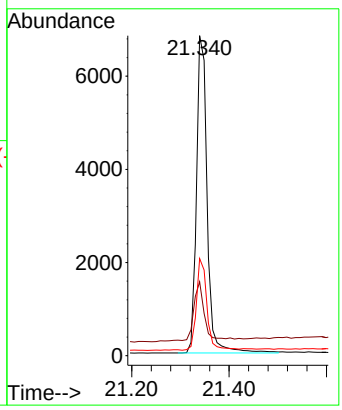


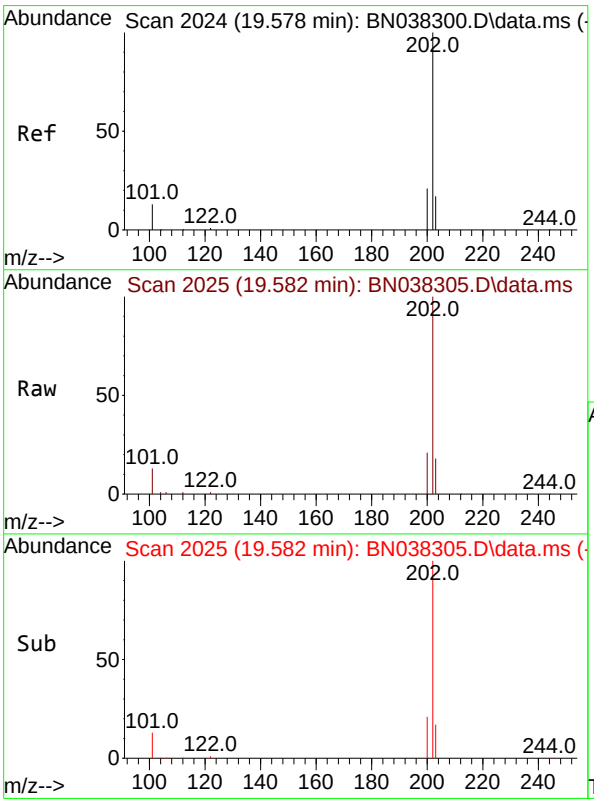
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.340 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Tgt Ion:240 Resp: 10339

Ion	Ratio	Lower	Upper
240	100		
120	23.1	15.4	23.2
236	30.4	23.9	35.9

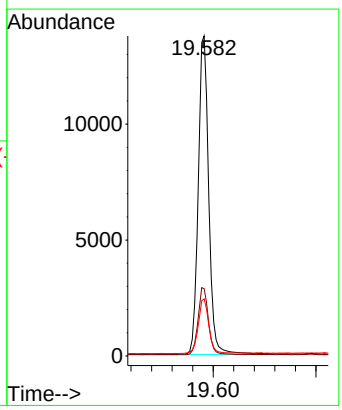


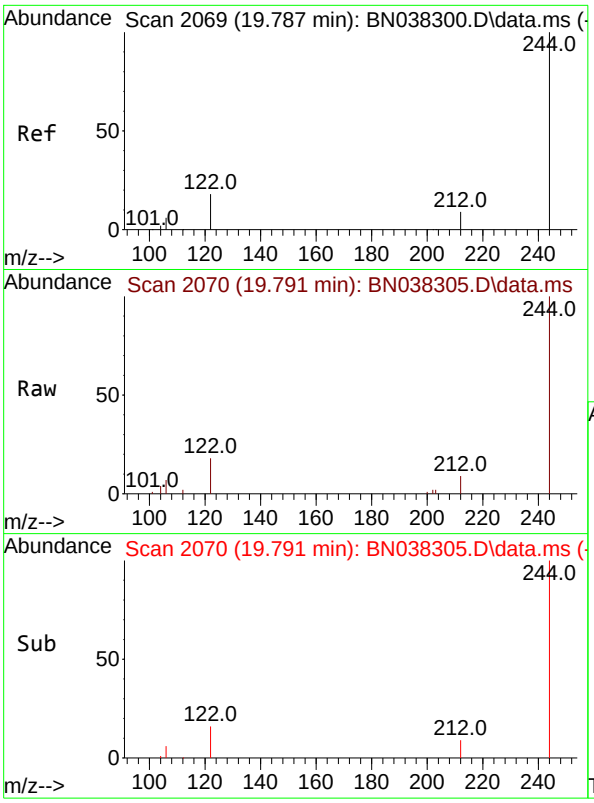


#30
Pyrene
Concen: 0.384 ng
RT: 19.582 min Scan# 2025
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Tgt Ion:202 Resp: 19552

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.9	25.3
203	17.5	14.2	21.2



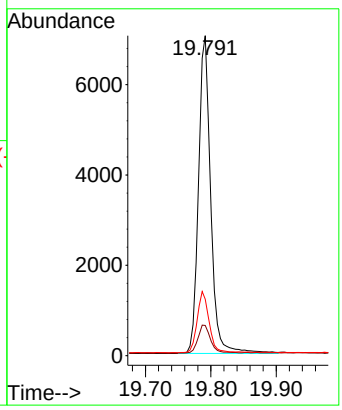


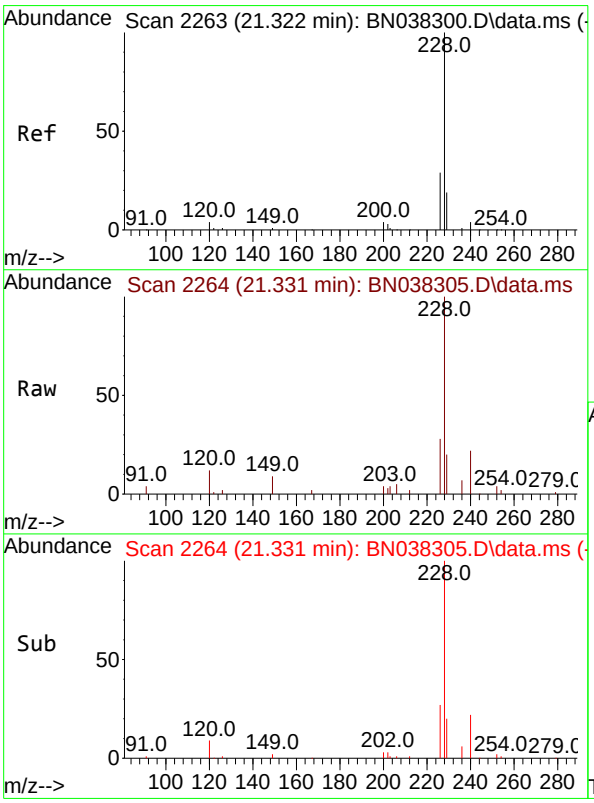
#31
Terphenyl-d14
Concen: 0.395 ng
RT: 19.791 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Tgt Ion:244 Resp: 9107

Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.9	11.9
122	17.7	15.0	22.6

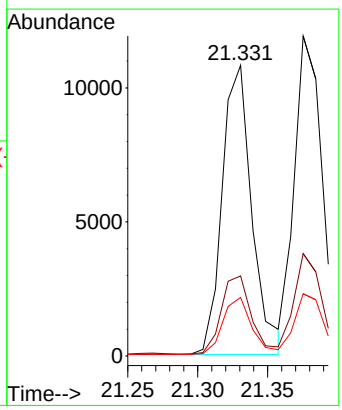


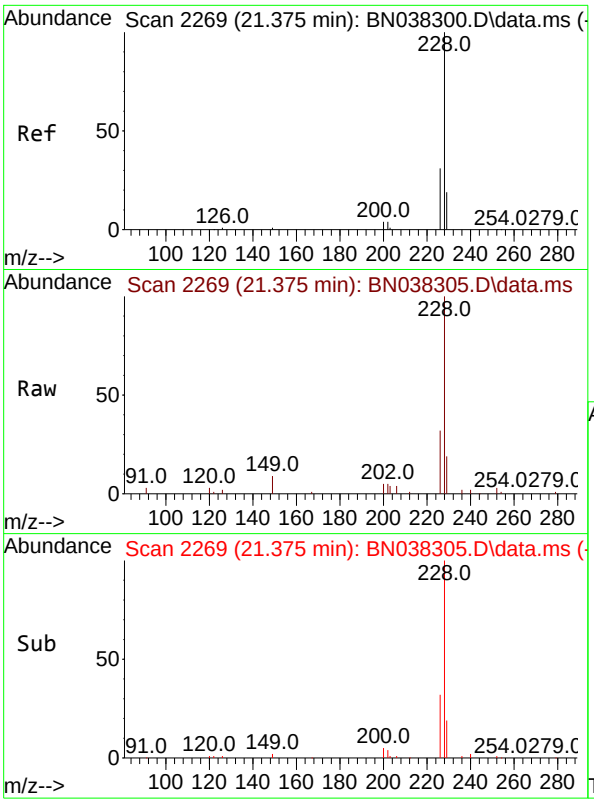


#32
Benzo(a)anthracene
Concen: 0.400 ng
RT: 21.331 min Scan# 2264
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Tgt Ion:228 Resp: 15962

Ion	Ratio	Lower	Upper
228	100		
226	27.5	23.3	34.9
229	20.2	15.7	23.5



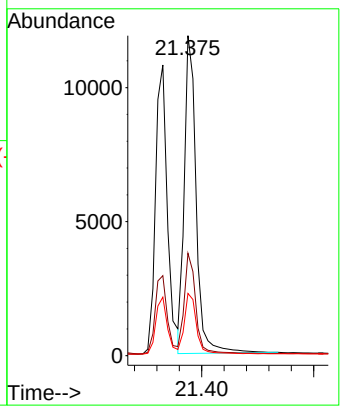


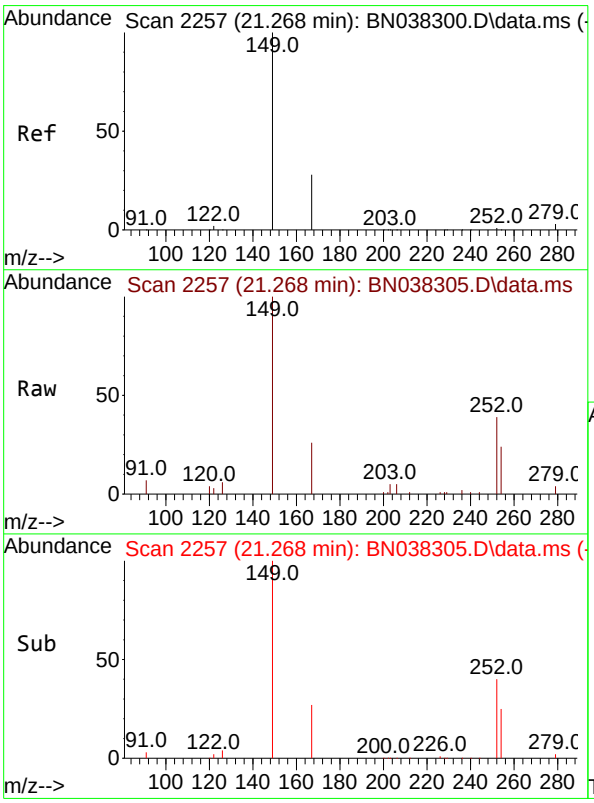
#33
Chrysene
Concen: 0.397 ng
RT: 21.375 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Tgt Ion:228 Resp: 17443

Ion	Ratio	Lower	Upper
228	100		
226	32.0	25.0	37.4
229	19.4	15.5	23.3

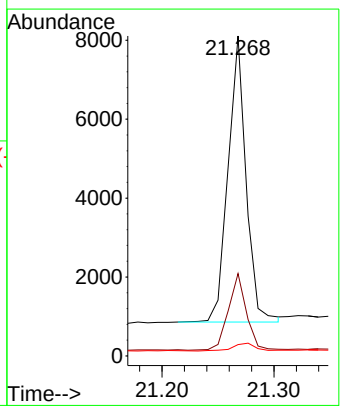


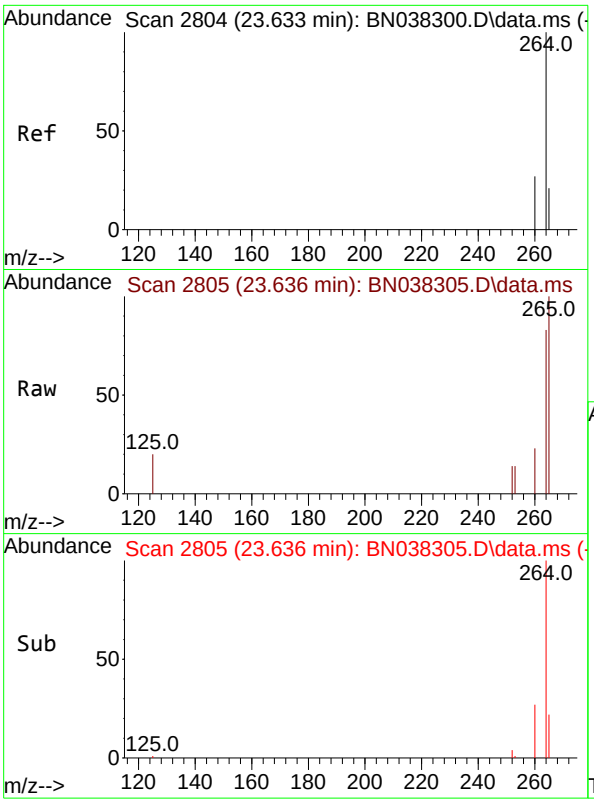


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.371 ng
RT: 21.268 min Scan# 2257
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Tgt Ion:149 Resp: 8119

Ion	Ratio	Lower	Upper
149	100		
167	26.9	21.4	32.0
279	3.5	2.4	3.6



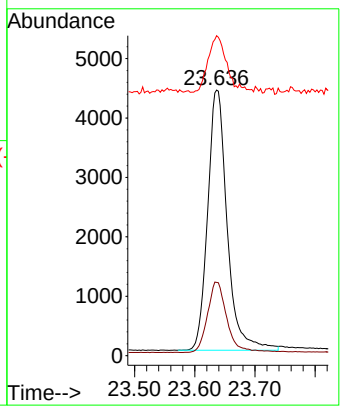


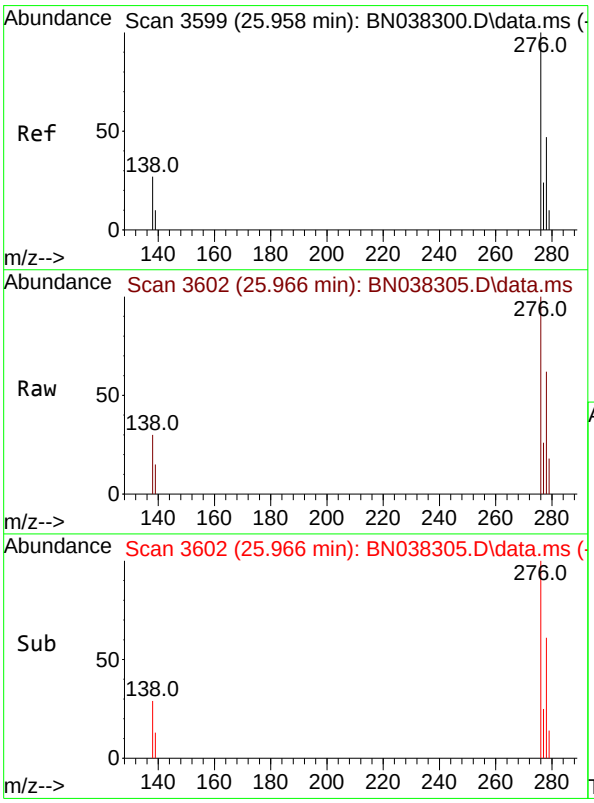
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.636 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Tgt Ion:264 Resp: 9862

Ion	Ratio	Lower	Upper
264	100		
260	27.6	22.2	33.2
265	120.5	80.2	120.2#

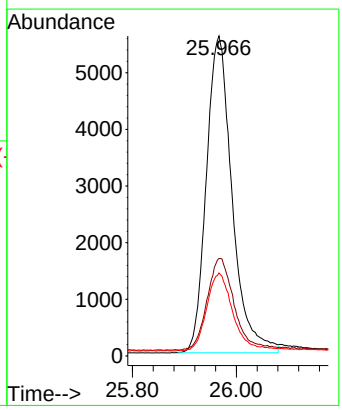


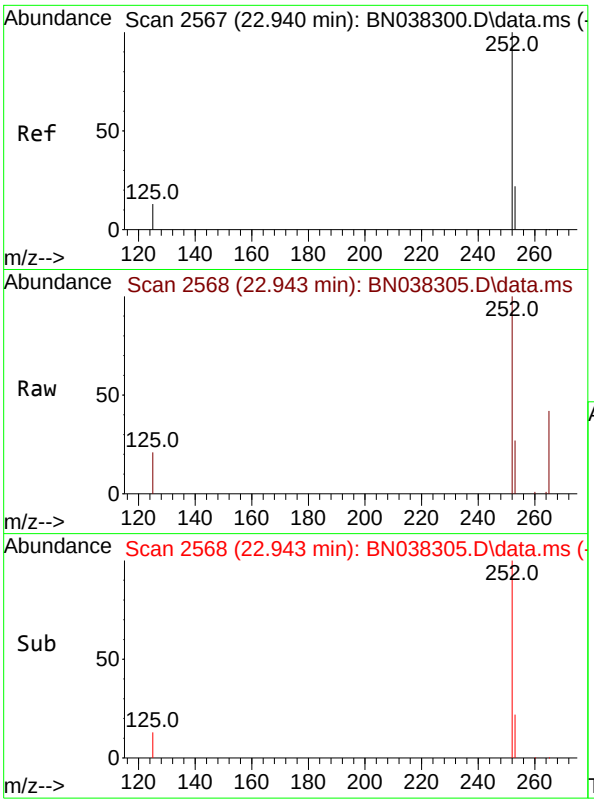


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.369 ng
RT: 25.966 min Scan# 3602
Delta R.T. 0.003 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Tgt Ion:276 Resp: 19287

Ion	Ratio	Lower	Upper
276	100		
138	30.3	23.6	35.4
277	25.1	19.7	29.5



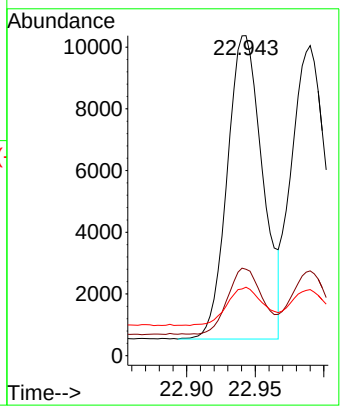


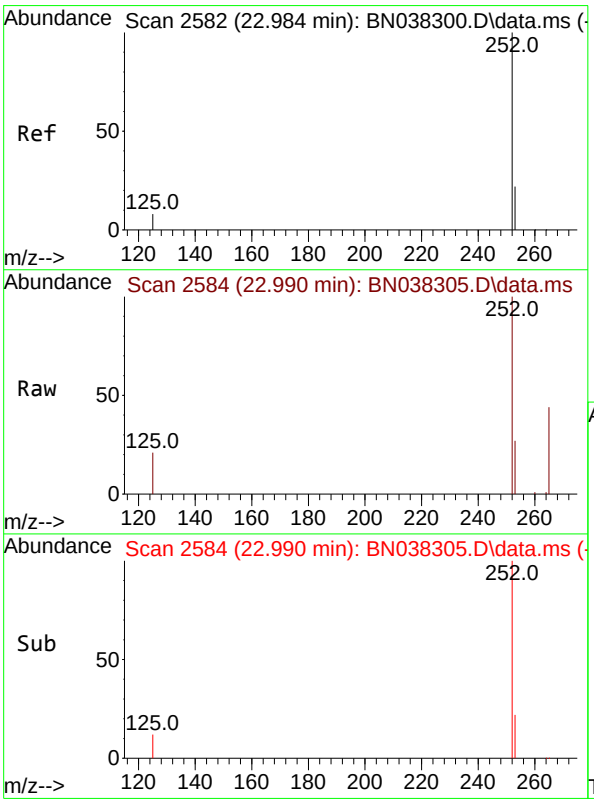
#37
Benzo(b)fluoranthene
Concen: 0.389 ng
RT: 22.943 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Tgt Ion:252 Resp: 17623

Ion	Ratio	Lower	Upper
252	100		
253	27.0	21.1	31.7
125	21.4	16.4	24.6

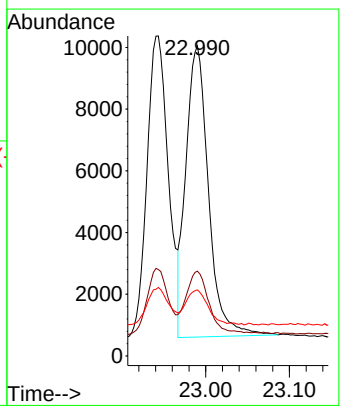


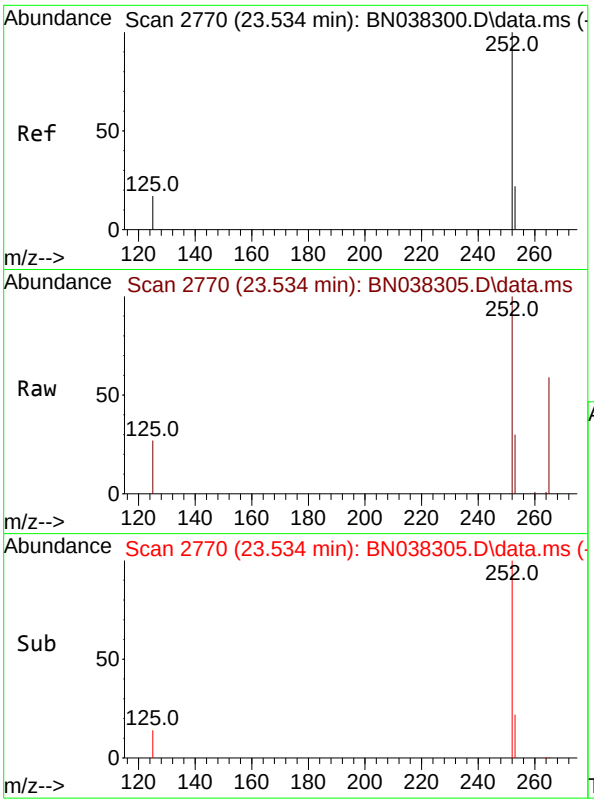


#38
Benzo(k)fluoranthene
Concen: 0.392 ng
RT: 22.990 min Scan# 2584
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Tgt Ion:252 Resp: 17707

Ion	Ratio	Lower	Upper
252	100		
253	27.4	21.4	32.0
125	21.3	16.2	24.2



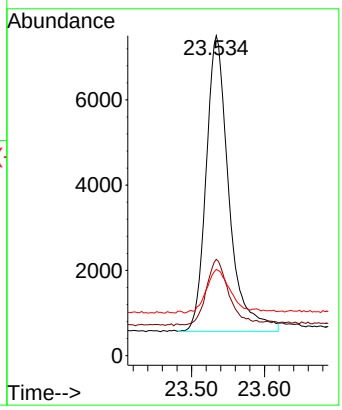


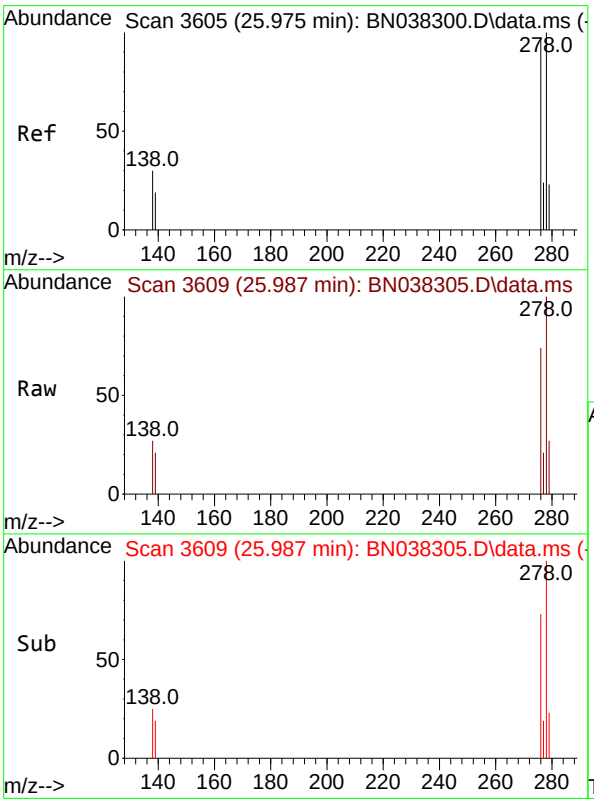
#39
Benzo(a)pyrene
Concen: 0.406 ng
RT: 23.534 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Tgt Ion:252 Resp: 15048

Ion	Ratio	Lower	Upper
252	100		
253	30.1	23.3	34.9
125	27.0	22.4	33.6

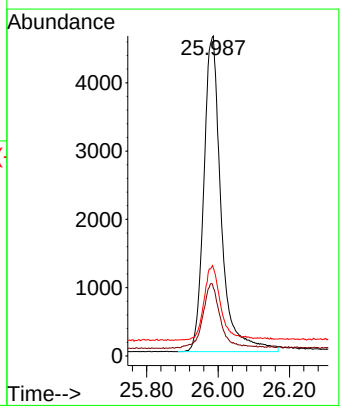


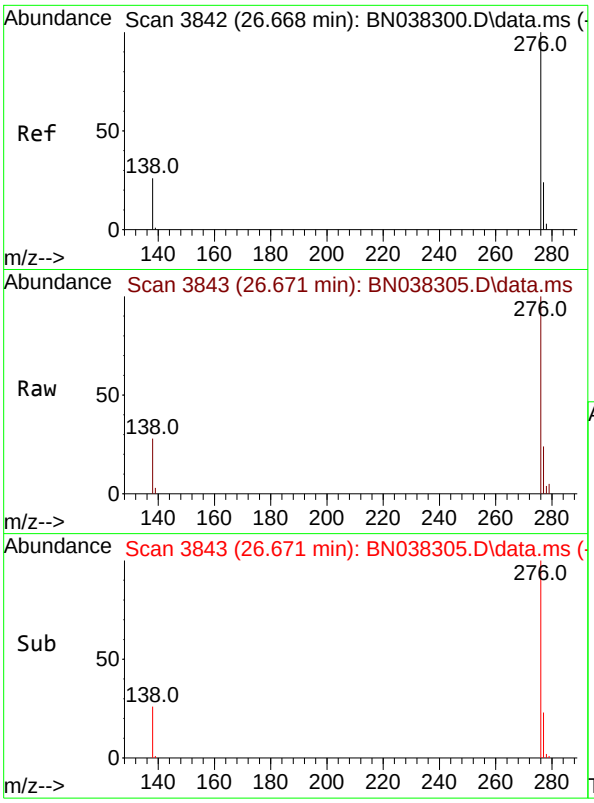


#40
Dibenzo(a,h)anthracene
Concen: 0.387 ng
RT: 25.987 min Scan# 3609
Delta R.T. 0.006 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Tgt Ion:278 Resp: 15615

Ion	Ratio	Lower	Upper
278	100		
139	21.2	17.8	26.8
279	27.4	21.3	31.9



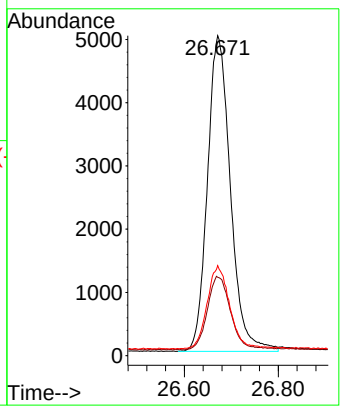


#41
Benzo(g,h,i)perylene
Concen: 0.377 ng
RT: 26.671 min Scan# 3
Delta R.T. -0.006 min
Lab File: BN038305.D
Acq: 10 Dec 2025 14:06

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Tgt Ion:276 Resp: 16981

Ion	Ratio	Lower	Upper
276	100		
277	24.5	20.0	30.0
138	28.2	21.8	32.6



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121025\
Data File : BN038305.D
Acq On : 10 Dec 2025 14:06
Operator : RC/JU
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

Quant Time: Dec 10 14:34:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 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	88	0.00
2		1,4-Dioxane	0.459	0.507	-10.5	96	0.00
3		n-Nitrosodimethylamine	0.575	0.586	-1.9	90	0.00
4	S	2-Fluorophenol	0.996	0.941	5.5	84	0.00
5	S	Phenol-d6	1.184	1.070	9.6	82	0.00
6		bis(2-Chloroethyl)ether	1.158	1.197	-3.4	91	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	90	0.00
8	S	Nitrobenzene-d5	0.337	0.327	3.0	89	0.00
9		Naphthalene	1.182	1.168	1.2	90	0.00
10		Hexachlorobutadiene	0.210	0.214	-1.9	92	0.00
11	SURR	2-Methylnaphthalene-d10	0.564	0.559	0.9	91	0.00
12		2-Methylnaphthalene	0.751	0.688	8.4	85	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	91	0.00
14	S	2,4,6-Tribromophenol	0.177	0.149	15.8	81	0.00
15	S	2-Fluorobiphenyl	1.927	1.798	6.7	83	0.00
16		Acenaphthylene	1.964	2.136	-8.8	102	0.00
17		Acenaphthene	1.369	1.358	0.8	92	0.00
18		Fluorene	1.761	1.719	2.4	91	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	91	0.00
20		4,6-Dinitro-2-methylphenol	0.066	0.054	18.2	87	0.00
21		4-Bromophenyl-phenylether	0.297	0.284	4.4	90	0.00
22		Hexachlorobenzene	0.357	0.352	1.4	92	0.00
23		Atrazine	0.202	0.190	5.9	91	0.00
24		Pentachlorophenol	0.139	0.103	25.9#	78	0.00
25		Phenanthrene	1.392	1.351	2.9	91	0.00
26		Anthracene	1.200	1.186	1.2	95	0.00
27	SURR	Fluoranthene-d10	0.989	0.970	1.9	90	0.00
28		Fluoranthene	1.480	1.386	6.4	87	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	90	0.00
30		Pyrene	1.969	1.891	4.0	88	0.00
31	S	Terphenyl-d14	0.893	0.881	1.3	90	0.00
32		Benzo(a)anthracene	1.545	1.544	0.1	94	0.00
33		Chrysene	1.701	1.687	0.8	88	0.00
34		Bis(2-ethylhexyl)phthalate	0.848	0.785	7.4	83	0.00
35	I	Perylene-d12	1.000	1.000	0.0	86	0.00
36		Indeno(1,2,3-cd)pyrene	2.123	1.956	7.9	79	0.00
37		Benzo(b)fluoranthene	1.837	1.787	2.7	86	0.00
38		Benzo(k)fluoranthene	1.832	1.795	2.0	86	0.00
39	C	Benzo(a)pyrene	1.503	1.526	-1.5	89	0.00
40		Dibenzo(a,h)anthracene	1.637	1.583	3.3	84	0.00
41		Benzo(g,h,i)perylene	1.829	1.722	5.9	81	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
ClientSampleId :
ICVBN121025

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	JACO05
Lab Code:	ACE	SDG No.:	Q3756
Instrument ID:	BNA_N	Calibration Date/Time:	12/05/2025 23:42
Lab File ID:	BN038287.D	Init. Calib. Date(s):	11/26/2025 11/27/2025
EPA Sample No.:	SSTDCCC0.4	Init. Calib. Time(s):	20:35 00:13

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.568	0.582		2.5	20.0
Fluoranthene-d10	0.868	0.874		0.7	20.0
2-Fluorophenol	0.935	0.980		4.8	20.0
Phenol-d6	1.168	1.224		4.8	20.0
Nitrobenzene-d5	0.320	0.314		-1.9	20.0
2-Fluorobiphenyl	1.545	1.760		13.9	20.0
2,4,6-Tribromophenol	0.126	0.118		-6.3	20.0
Terphenyl-d14	0.924	0.838		-9.3	20.0
1,4-Dioxane	0.421	0.446		5.9	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
Data File : BN038287.D
Acq On : 05 Dec 2025 23:42
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 06 00:13:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration

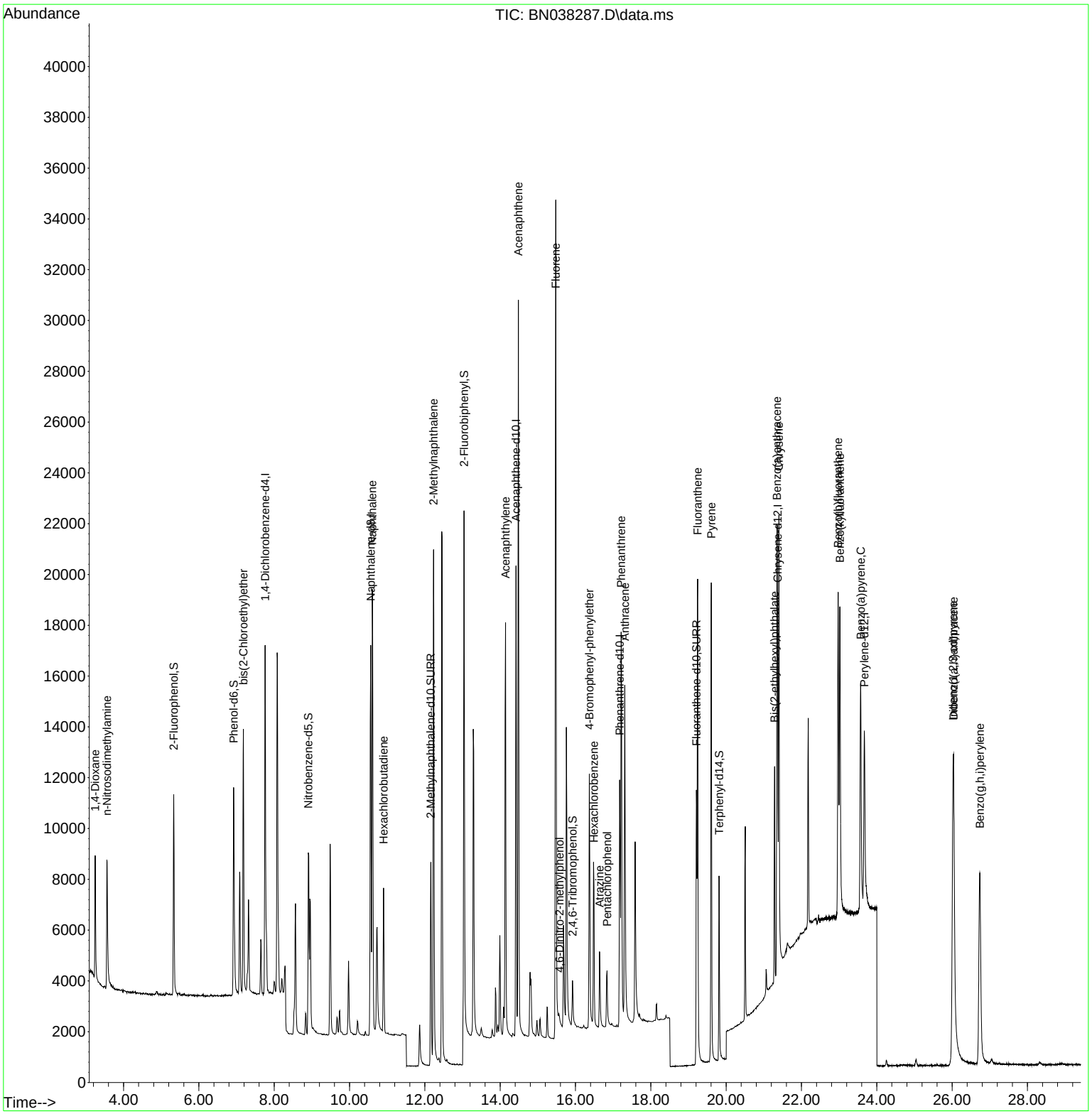
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.761	152	6906	0.400	ng		0.00
7) Naphthalene-d8	10.562	136	20829	0.400	ng		-0.01
13) Acenaphthene-d10	14.420	164	10600	0.400	ng		-0.01
19) Phenanthrene-d10	17.173	188	14873	0.400	ng		#-0.01
29) Chrysene-d12	21.367	240	9751	0.400	ng		# 0.00
35) Perylene-d12	23.668	264	10410	0.400	ng		-0.01
System Monitoring Compounds							
4) 2-Fluorophenol	5.334	112	6765	0.419	ng		0.00
5) Phenol-d6	6.923	99	8450	0.419	ng		-0.01
8) Nitrobenzene-d5	8.907	82	6550	0.393	ng		-0.01
11) 2-Methylnaphthalene-d10	12.157	152	12114	0.410	ng		0.00
14) 2,4,6-Tribromophenol	15.920	330	1256	0.377	ng		-0.01
15) 2-Fluorobiphenyl	13.041	172	18659	0.456	ng		-0.01
27) Fluoranthene-d10	19.211	212	12995	0.403	ng		0.00
31) Terphenyl-d14	19.815	244	8175	0.363	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.247	88	3077	0.423	ng		98
3) n-Nitrosodimethylamine	3.557	42	3635	0.405	ng		98
6) bis(2-Chloroethyl)ether	7.183	93	8257	0.428	ng		98
9) Naphthalene	10.605	128	24485	0.423	ng		99
10) Hexachlorobutadiene	10.904	225	4407	0.448	ng	#	98
12) 2-Methylnaphthalene	12.233	142	15843	0.416	ng		99
16) Acenaphthylene	14.142	152	19797	0.418	ng		99
17) Acenaphthene	14.484	154	13867	0.420	ng		99
18) Fluorene	15.478	166	16687	0.390	ng		99
20) 4,6-Dinitro-2-methylph...	15.572	198	363	0.398	ng		93
21) 4-Bromophenyl-phenylether	16.367	248	4645	0.451	ng	#	81
22) Hexachlorobenzene	16.491	284	5812	0.459	ng		100
23) Atrazine	16.640	200	2739	0.416	ng	#	95
24) Pentachlorophenol	16.838	266	1559	0.449	ng		98
25) Phenanthrene	17.211	178	19606	0.420	ng		99
26) Anthracene	17.310	178	16294	0.409	ng		99
28) Fluoranthene	19.243	202	18645	0.414	ng		100
30) Pyrene	19.606	202	18705	0.384	ng		100
32) Benzo(a)anthracene	21.349	228	14124	0.428	ng		100
33) Chrysene	21.402	228	16850	0.432	ng		99
34) Bis(2-ethylhexyl)phtha...	21.286	149	7820	0.432	ng		100
36) Indeno(1,2,3-cd)pyrene	26.025	276	20723	0.430	ng		98
37) Benzo(b)fluoranthene	22.973	252	17170	0.402	ng		99
38) Benzo(k)fluoranthene	23.019	252	17157	0.386	ng		100
39) Benzo(a)pyrene	23.572	252	14932	0.417	ng		99
40) Dibenzo(a,h)anthracene	26.040	278	15748	0.432	ng		99
41) Benzo(g,h,i)perylene	26.735	276	18218	0.418	ng		99

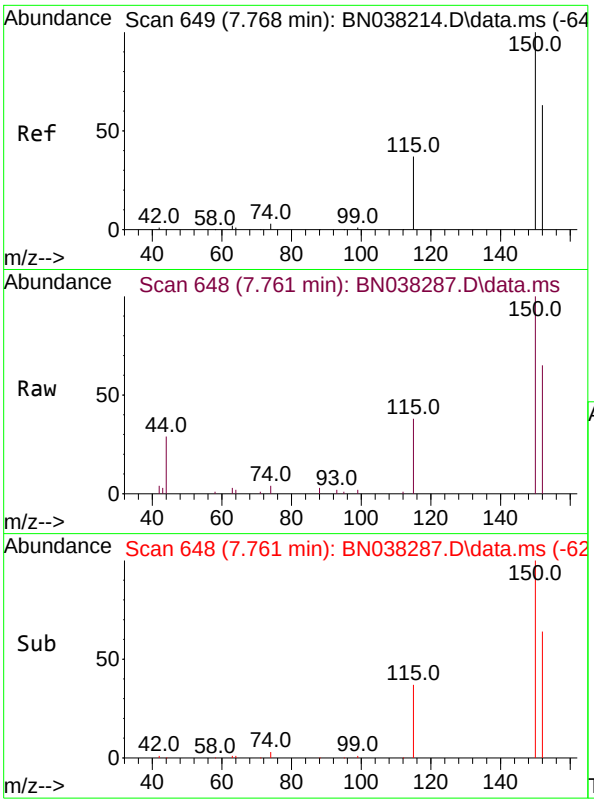
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
Data File : BN038287.D
Acq On : 05 Dec 2025 23:42
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 06 00:13:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration



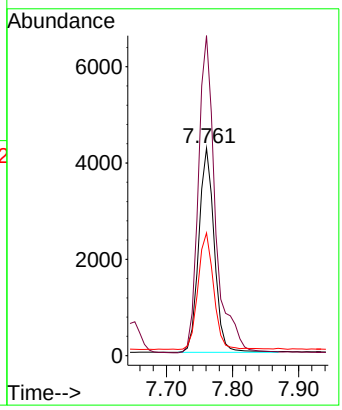


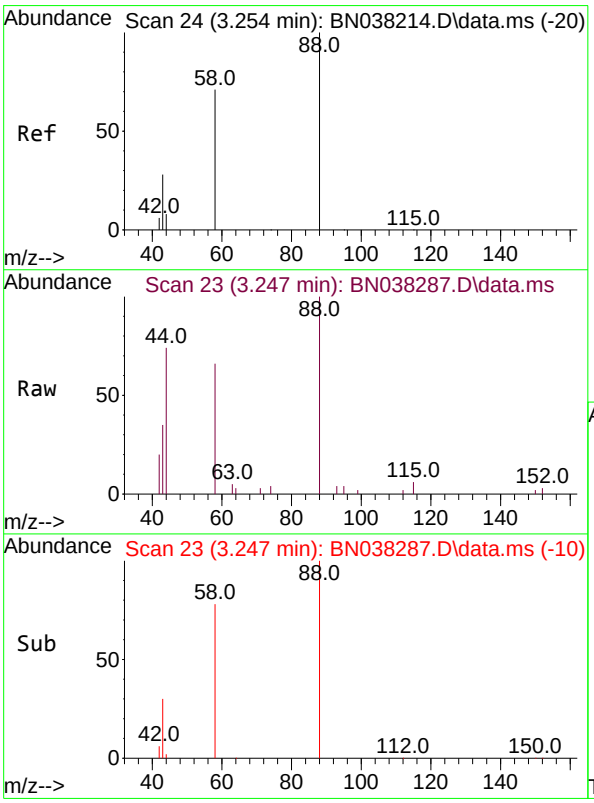
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.761 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 6906

Ion	Ratio	Lower	Upper
152	100		
150	154.2	125.3	187.9
115	59.2	49.0	73.4

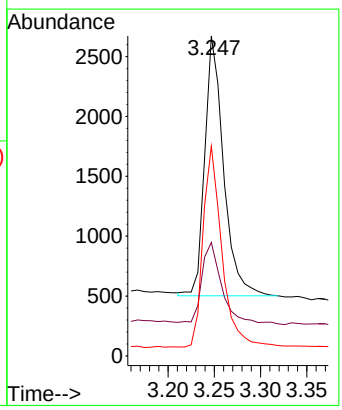


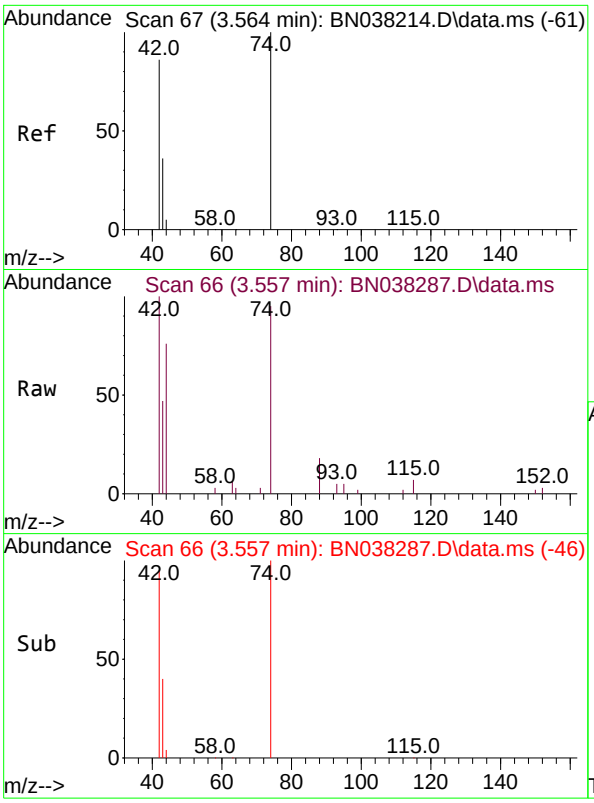


#2
1,4-Dioxane
Concen: 0.423 ng
RT: 3.247 min Scan# 23
Delta R.T. -0.007 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Tgt Ion: 88 Resp: 3077

Ion	Ratio	Lower	Upper
88	100		
43	33.2	24.8	37.2
58	77.3	61.1	91.7



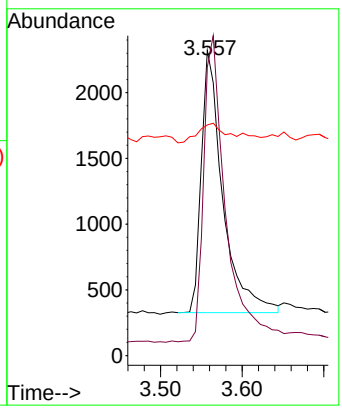


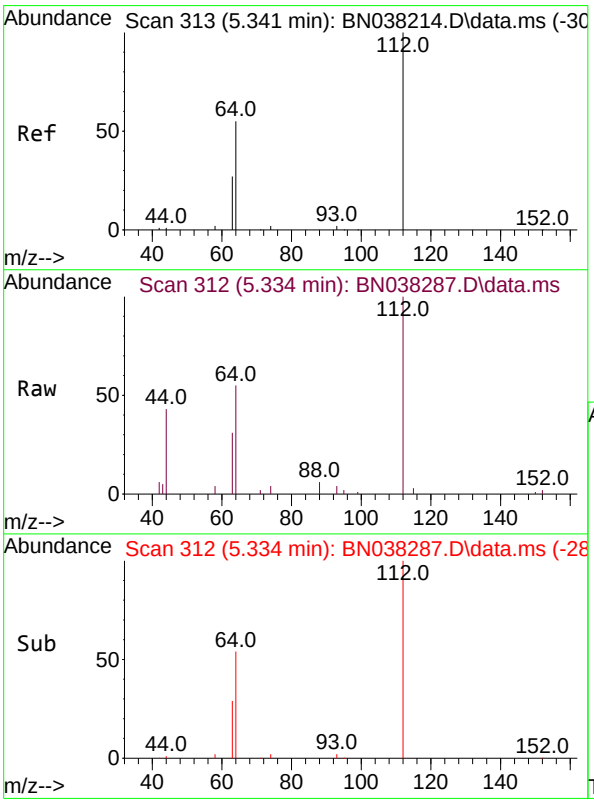
#3
n-Nitrosodimethylamine
Concen: 0.405 ng
RT: 3.557 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 3635

Ion	Ratio	Lower	Upper
42	100		
74	122.3	96.2	144.2
44	9.3	8.0	12.0

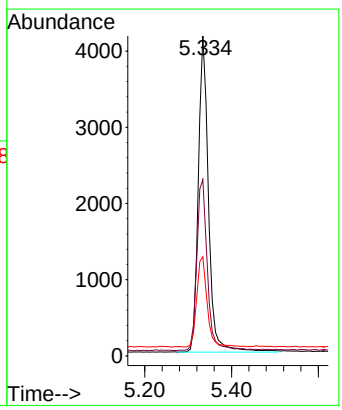


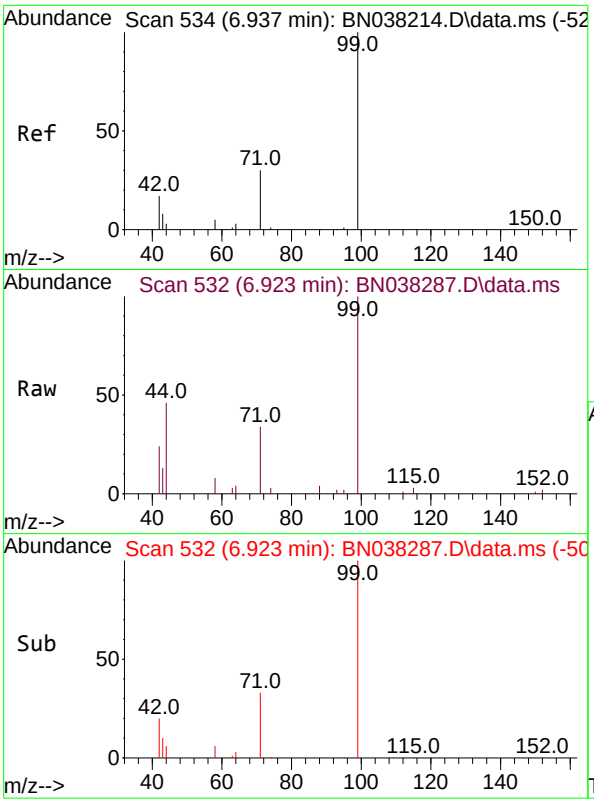


#4
2-Fluorophenol
Concen: 0.419 ng
RT: 5.334 min Scan# 312
Delta R.T. -0.007 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Tgt Ion:112 Resp: 6765

Ion	Ratio	Lower	Upper
112	100		
64	56.2	45.0	67.4
63	29.3	23.2	34.8



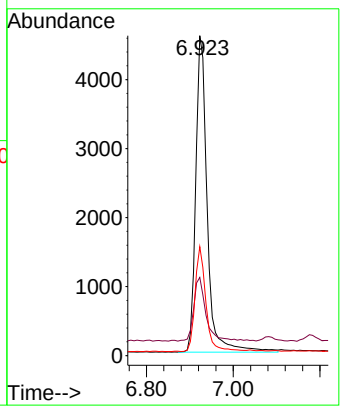


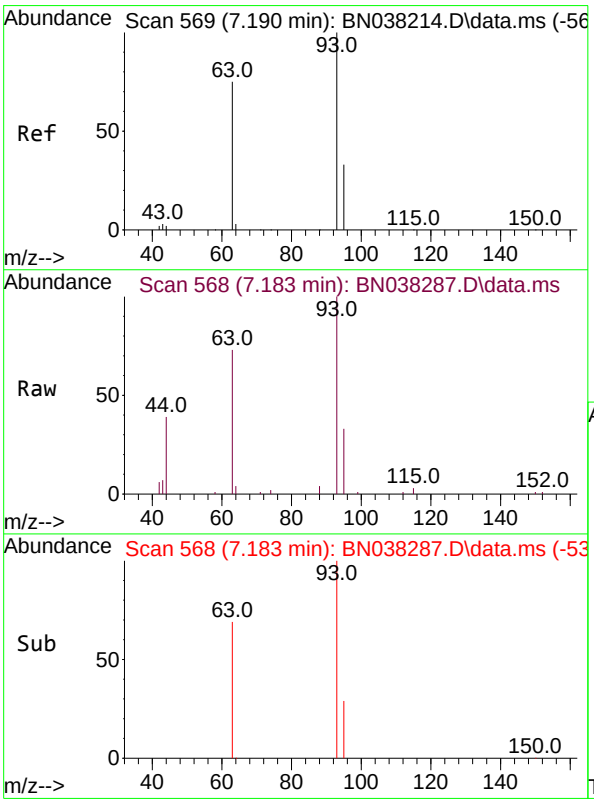
#5
Phenol-d6
Concen: 0.419 ng
RT: 6.923 min Scan# 5
Delta R.T. -0.014 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 8450

Ion	Ratio	Lower	Upper
99	100		
42	21.3	17.0	25.6
71	31.3	25.4	38.2

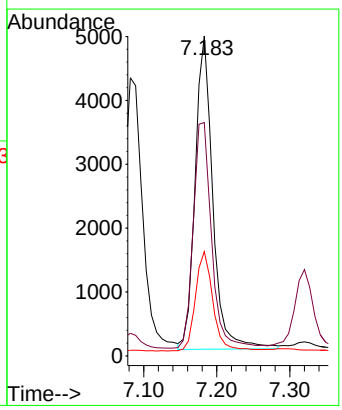


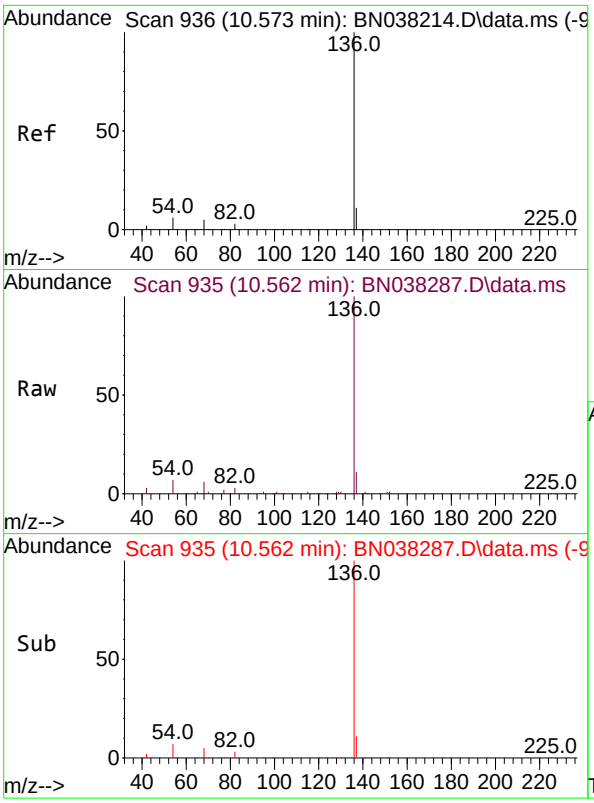


#6
bis(2-Chloroethyl)ether
Concen: 0.428 ng
RT: 7.183 min Scan# 568
Delta R.T. -0.007 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Tgt Ion: 93 Resp: 8257

Ion	Ratio	Lower	Upper
93	100		
63	74.7	58.1	87.1
95	31.5	25.1	37.7



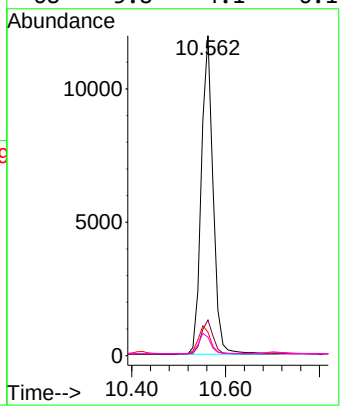


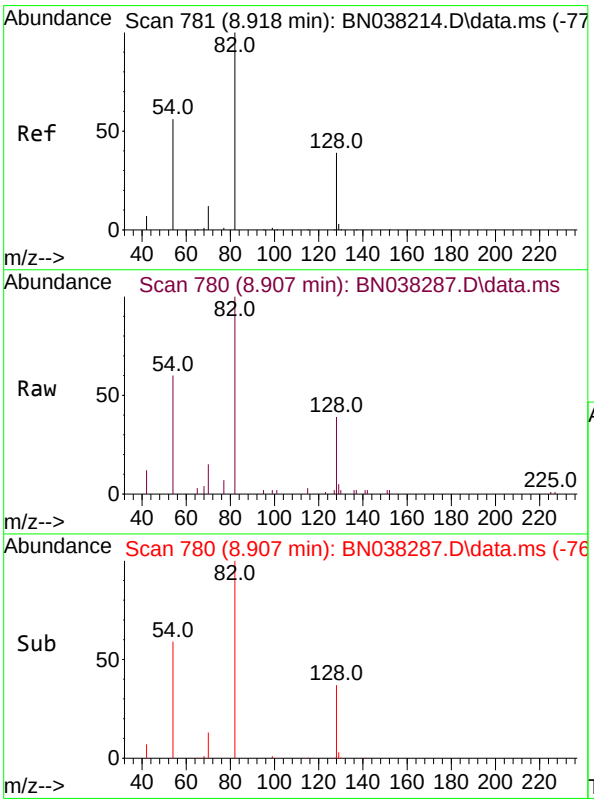
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 20829

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.9	13.3
54	7.3	5.4	8.0
68	5.8	4.1	6.1

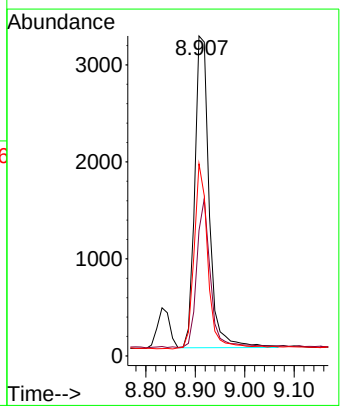


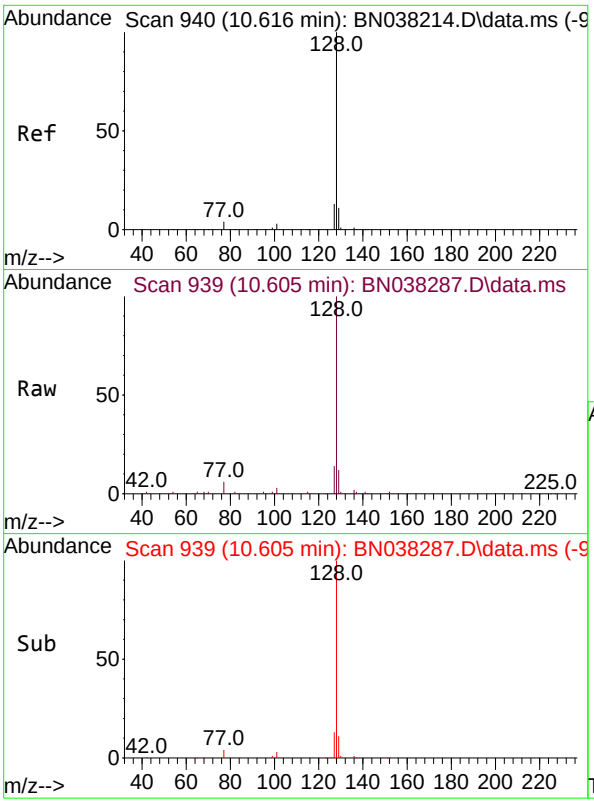


#8
Nitrobenzene-d5
Concen: 0.393 ng
RT: 8.907 min Scan# 780
Delta R.T. -0.011 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Tgt Ion: 82 Resp: 6550

Ion	Ratio	Lower	Upper
82	100		
128	39.2	32.6	48.8
54	60.0	45.4	68.0



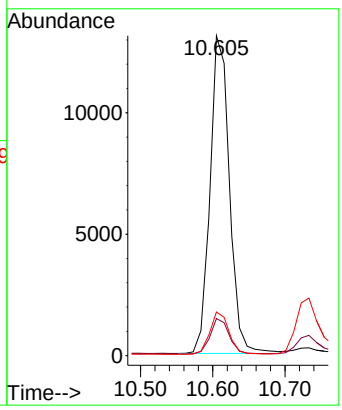


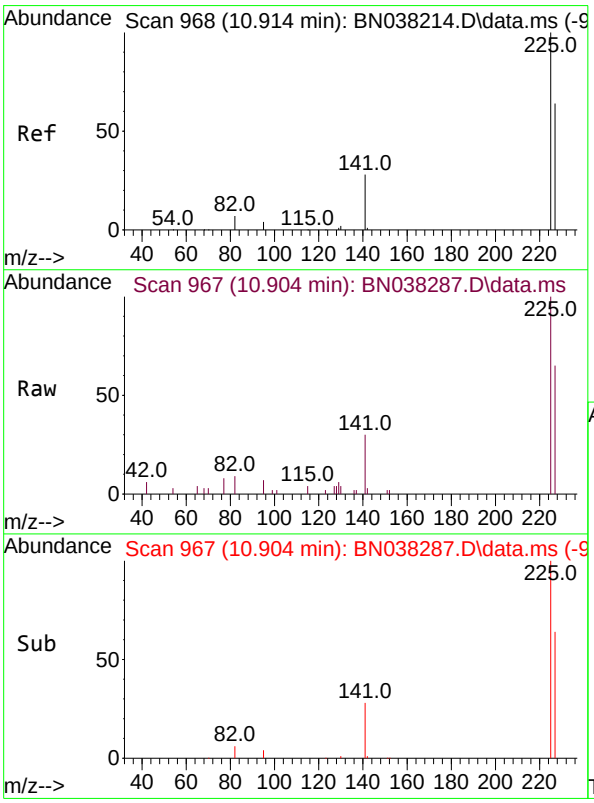
#9
Naphthalene
Concen: 0.423 ng
RT: 10.605 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 24485

Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.1	13.7
127	13.6	10.6	16.0

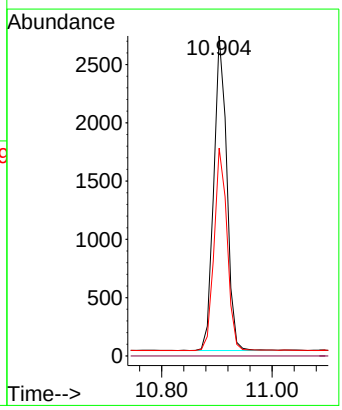


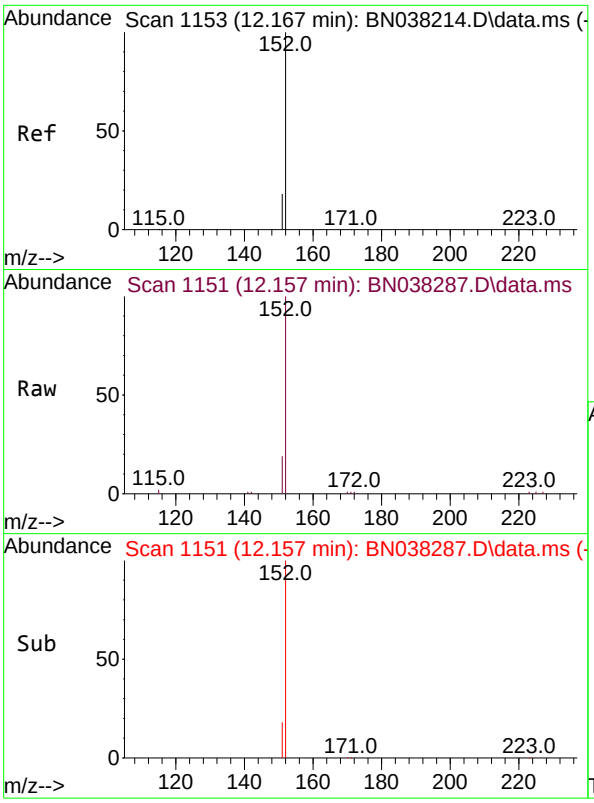


#10
Hexachlorobutadiene
Concen: 0.448 ng
RT: 10.904 min Scan# 967
Delta R.T. -0.011 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Tgt Ion:225 Resp: 4407

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.4	50.5	75.7



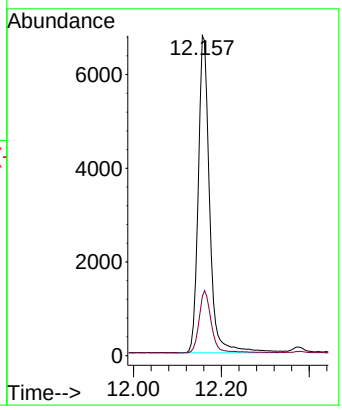


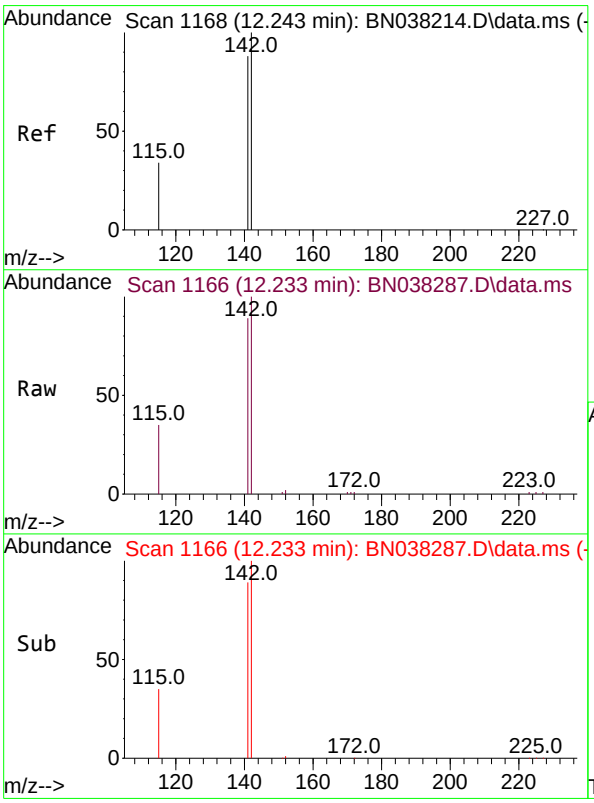
#11
2-Methylnaphthalene-d10
Concen: 0.410 ng
RT: 12.157 min Scan# 11
Delta R.T. -0.010 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 12114

Ion	Ratio	Lower	Upper
152	100		
151	21.4	16.7	25.1

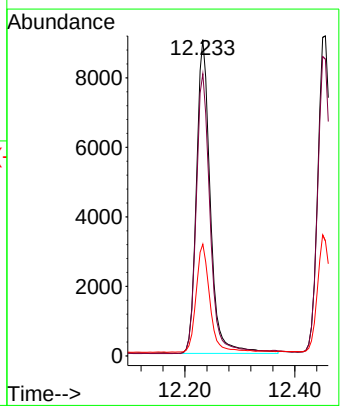


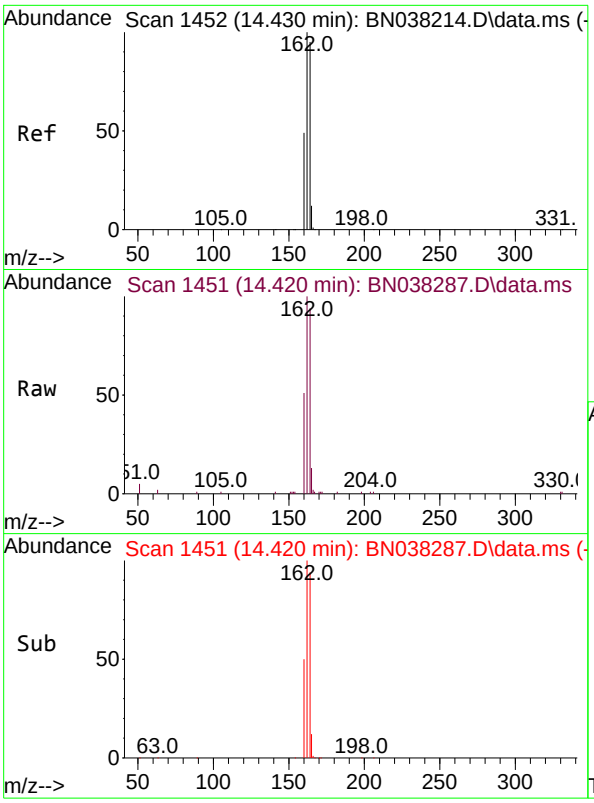


#12
2-Methylnaphthalene
Concen: 0.416 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Tgt Ion:142 Resp: 15843

Ion	Ratio	Lower	Upper
142	100		
141	89.2	70.9	106.3
115	35.3	27.7	41.5



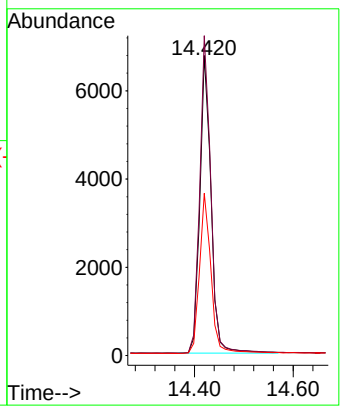


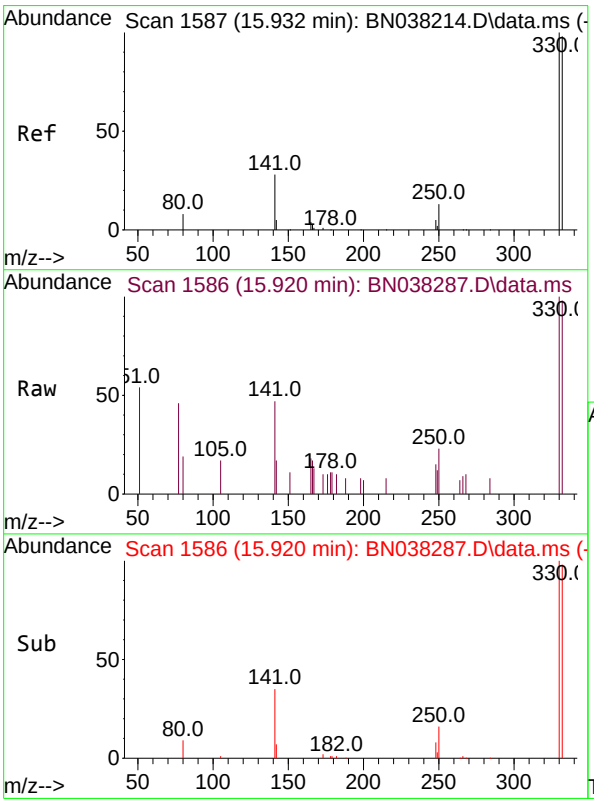
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 10600

Ion	Ratio	Lower	Upper
164	100		
162	106.6	83.8	125.8
160	54.1	41.6	62.4

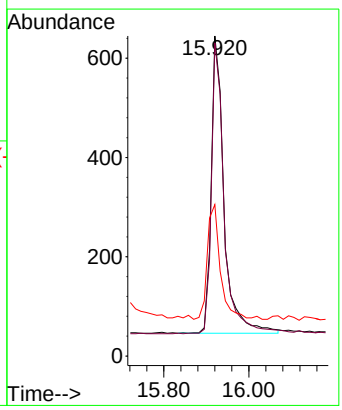


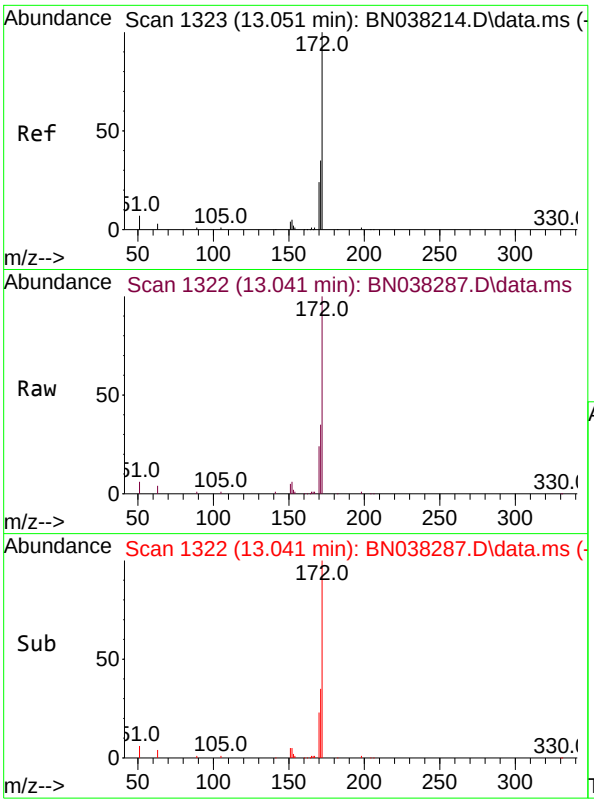


#14
2,4,6-Tribromophenol
Concen: 0.377 ng
RT: 15.920 min Scan# 1586
Delta R.T. -0.012 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Tgt Ion:330 Resp: 1256

Ion	Ratio	Lower	Upper
330	100		
332	97.1	77.8	116.6
141	39.3	33.0	49.4



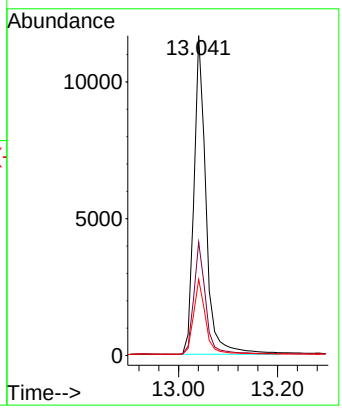


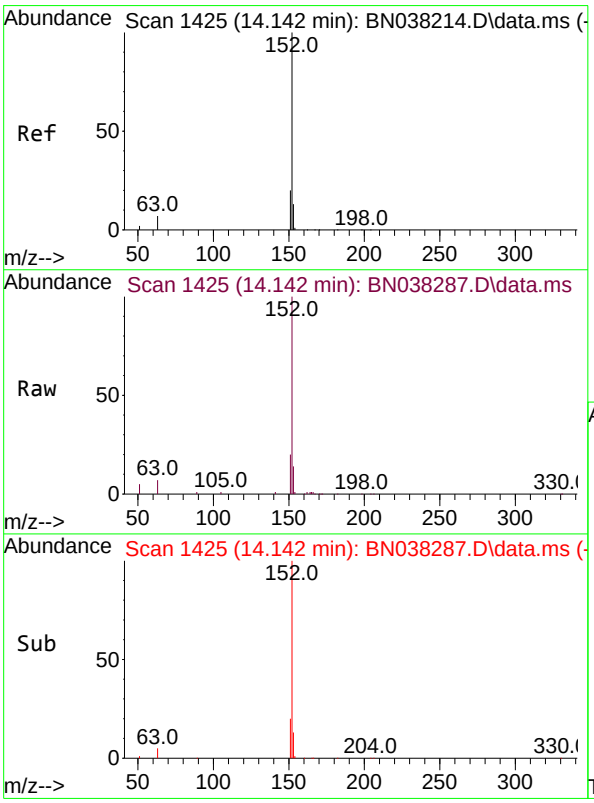
#15
2-Fluorobiphenyl
Concen: 0.456 ng
RT: 13.041 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 18659

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.1	42.1
170	23.8	19.1	28.7

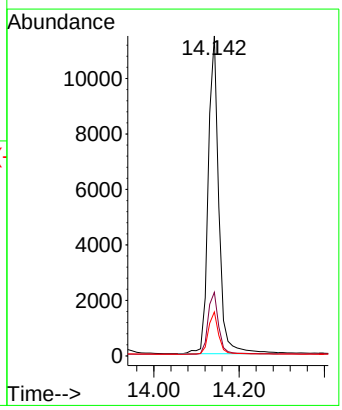


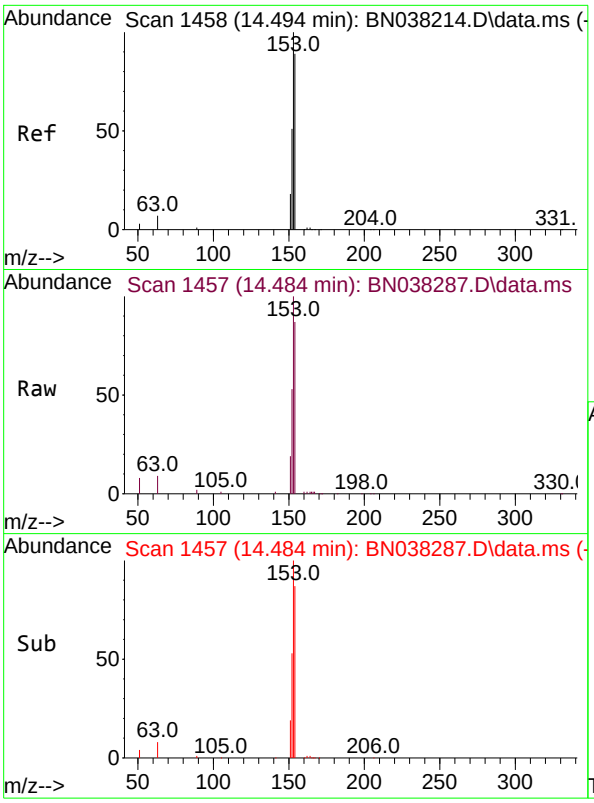


#16
Acenaphthylene
Concen: 0.418 ng
RT: 14.142 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Tgt Ion:152 Resp: 19797

Ion	Ratio	Lower	Upper
152	100		
151	19.9	15.6	23.4
153	13.1	10.6	15.8



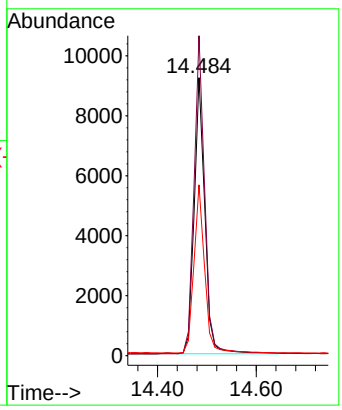


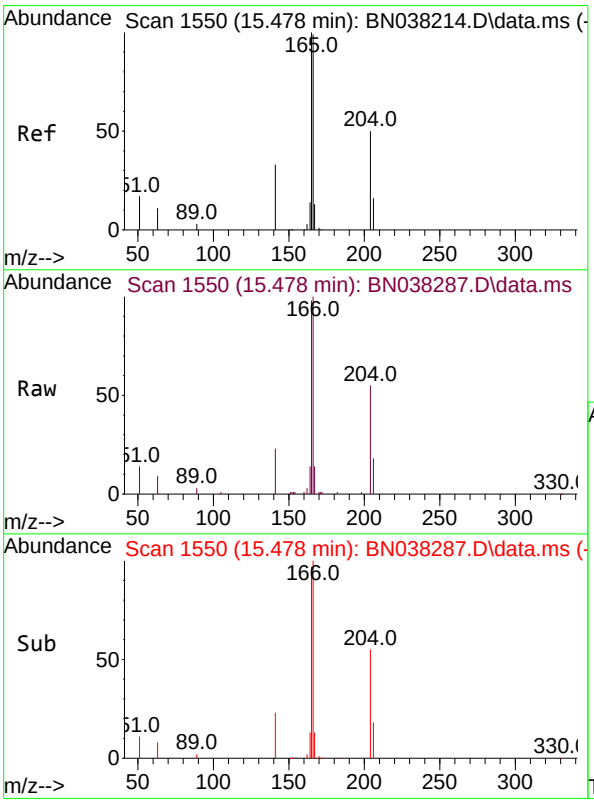
#17
Acenaphthene
Concen: 0.420 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 13867

Ion	Ratio	Lower	Upper
154	100		
153	115.2	91.1	136.7
152	61.5	48.2	72.2

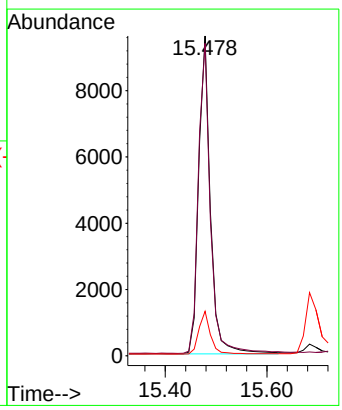


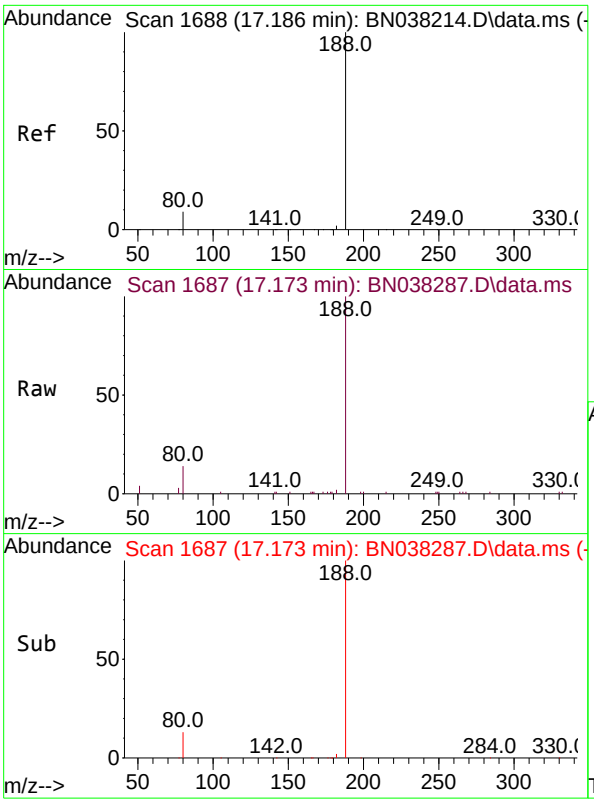


#18
Fluorene
Concen: 0.390 ng
RT: 15.478 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Tgt Ion:166 Resp: 16687

Ion	Ratio	Lower	Upper
166	100		
165	99.0	78.7	118.1
167	13.1	10.9	16.3



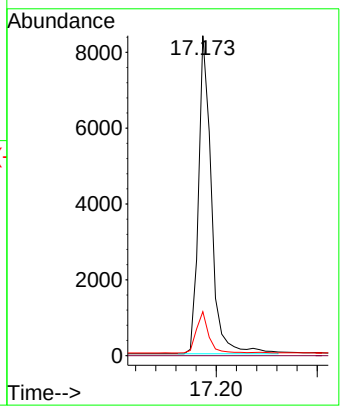


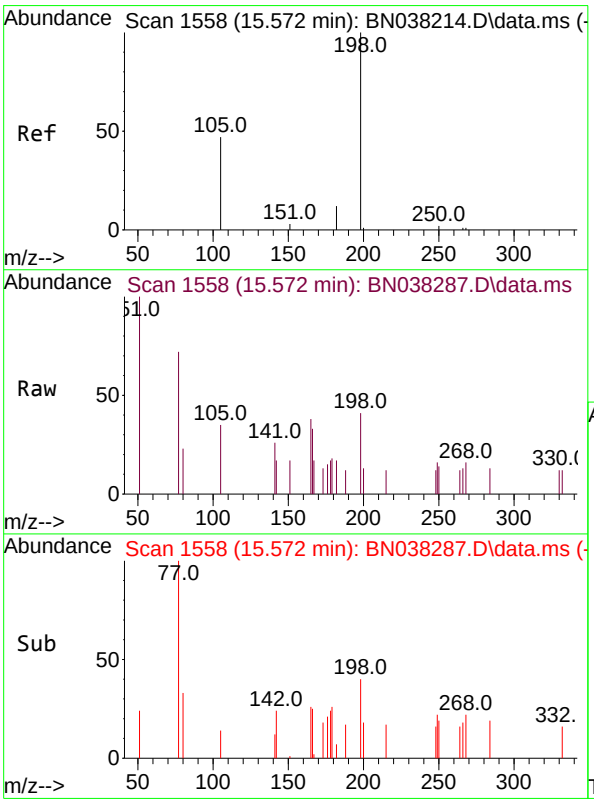
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.173 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 14873

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.7	7.7	11.5#

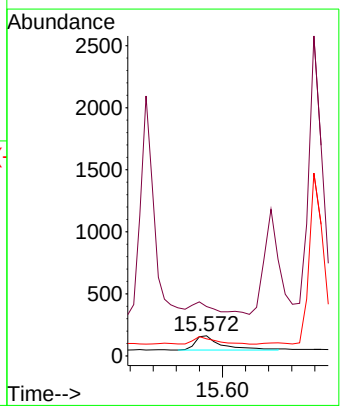


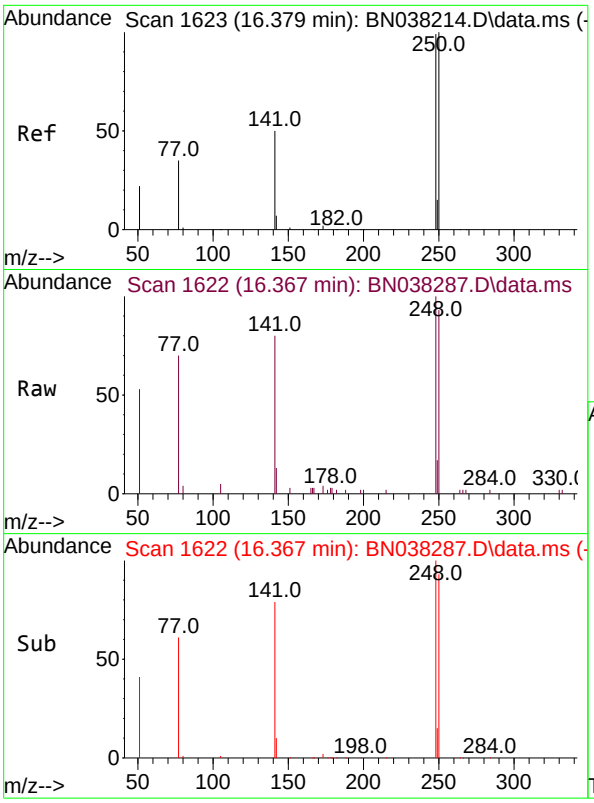


#20
4,6-Dinitro-2-methylphenol
Concen: 0.398 ng
RT: 15.572 min Scan# 1558
Delta R.T. 0.000 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Tgt Ion:198 Resp: 363

Ion	Ratio	Lower	Upper
198	100		
51	245.7	205.1	307.7
105	85.2	61.6	92.4



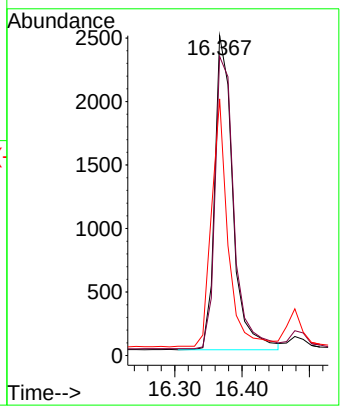


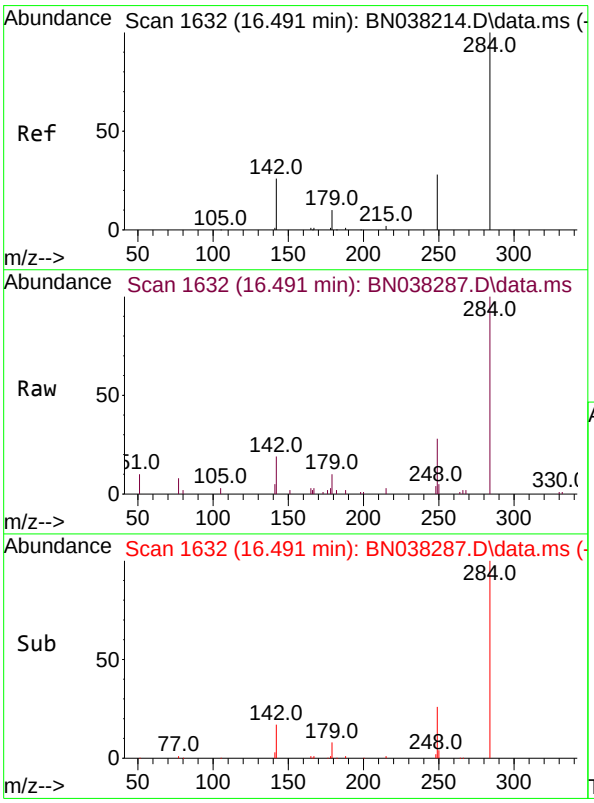
#21
4-Bromophenyl-phenylether
Concen: 0.451 ng
RT: 16.367 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 4645

Ion	Ratio	Lower	Upper
248	100		
250	93.5	80.8	121.2
141	80.2	41.0	61.6#

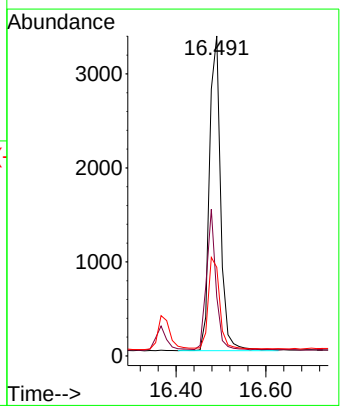


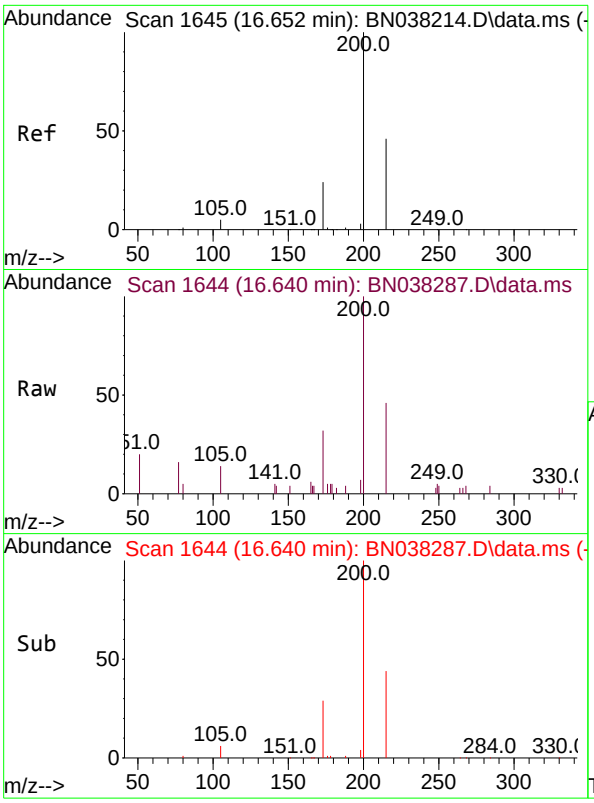


#22
Hexachlorobenzene
Concen: 0.459 ng
RT: 16.491 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Tgt Ion:284 Resp: 5812

Ion	Ratio	Lower	Upper
284	100		
142	38.4	30.5	45.7
249	29.9	23.8	35.8



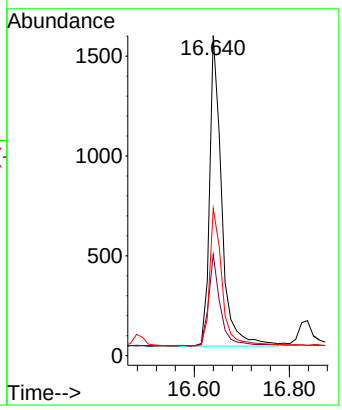


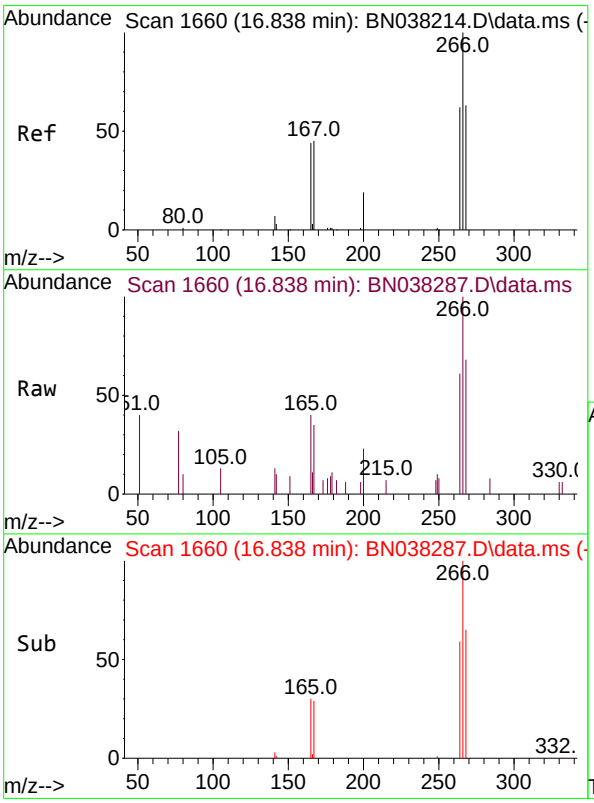
#23
Atrazine
Concen: 0.416 ng
RT: 16.640 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 2739

Ion	Ratio	Lower	Upper
200	100		
173	31.6	21.0	31.6#
215	46.0	37.8	56.8

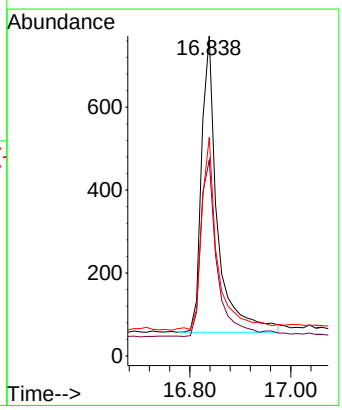


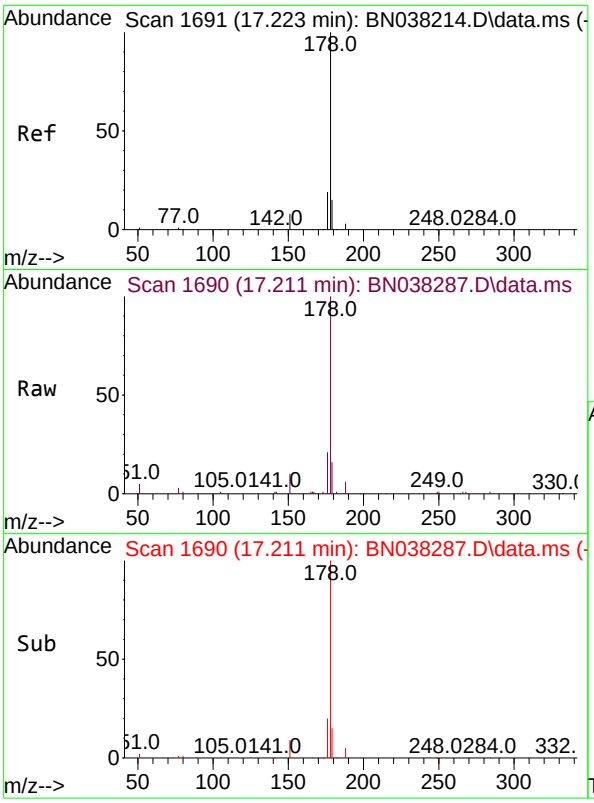


#24
Pentachlorophenol
Concen: 0.449 ng
RT: 16.838 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Tgt Ion:266 Resp: 1559

Ion	Ratio	Lower	Upper
266	100		
264	62.3	48.9	73.3
268	64.8	50.2	75.2



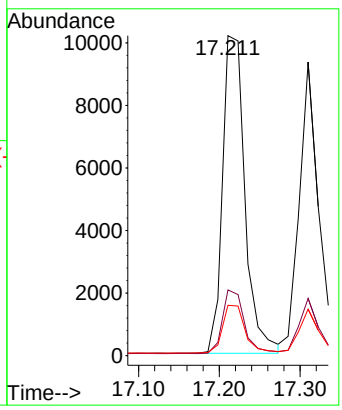


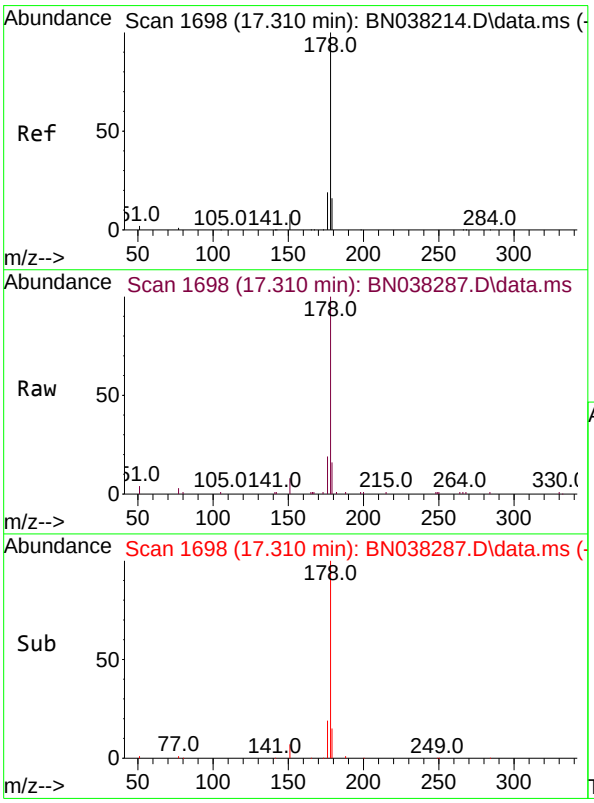
#25
Phenanthrene
Concen: 0.420 ng
RT: 17.211 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 19606

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.3	22.9
179	15.4	12.0	18.0

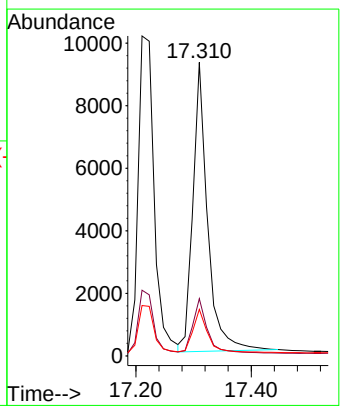


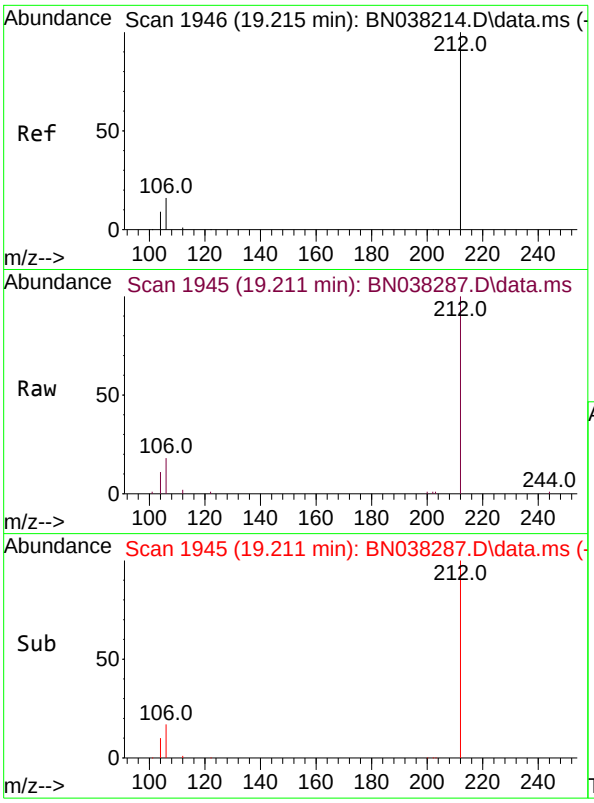


#26
Anthracene
Concen: 0.409 ng
RT: 17.310 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Tgt Ion:178 Resp: 16294

Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.7	22.1
179	15.3	12.3	18.5



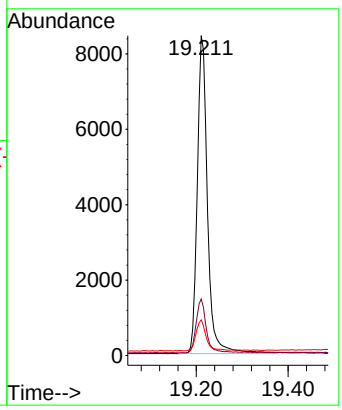


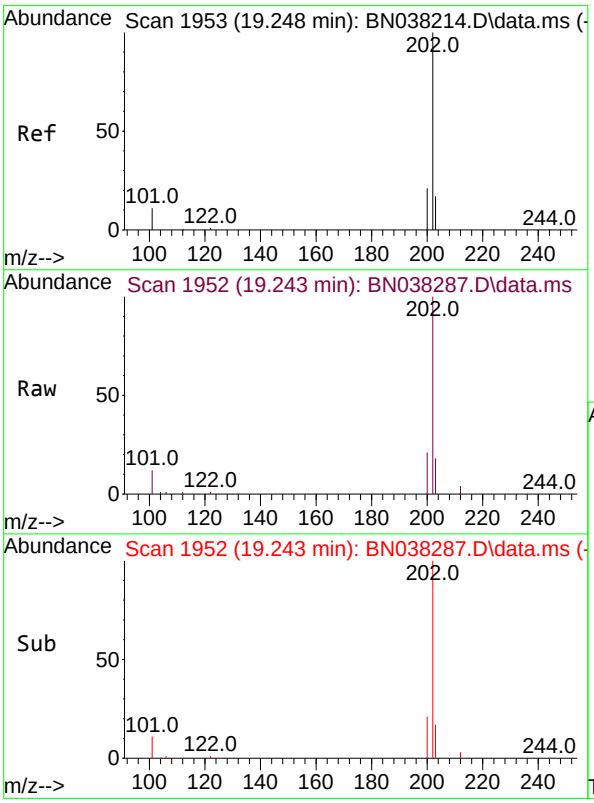
#27
Fluoranthene-d10
Concen: 0.403 ng
RT: 19.211 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 12995

Ion	Ratio	Lower	Upper
212	100		
106	16.8	12.7	19.1
104	9.6	7.3	10.9

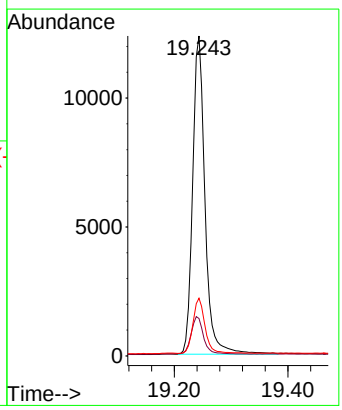


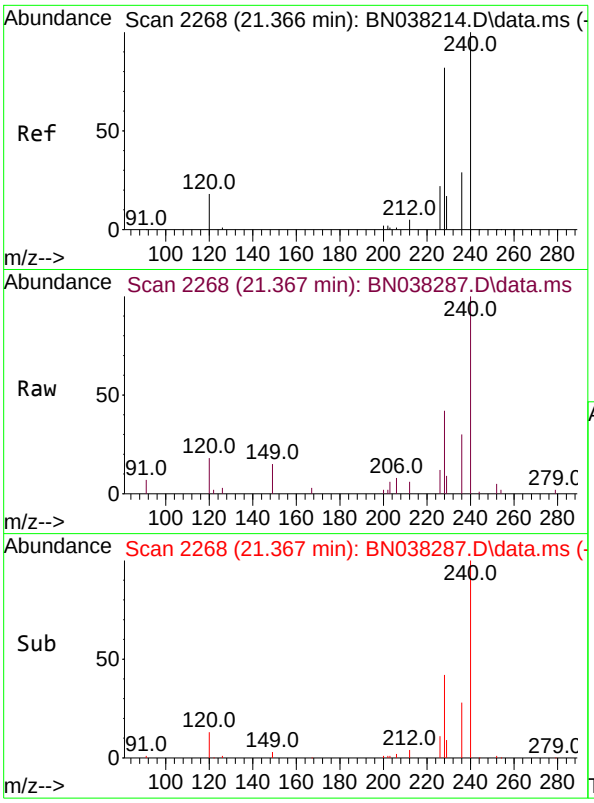


#28
Fluoranthene
Concen: 0.414 ng
RT: 19.243 min Scan# 1952
Delta R.T. -0.005 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Tgt Ion:202 Resp: 18645

Ion	Ratio	Lower	Upper
202	100		
101	11.9	9.8	14.6
203	16.9	13.6	20.4



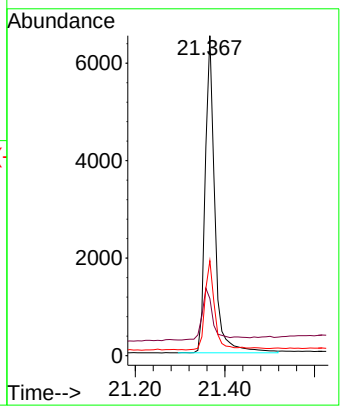


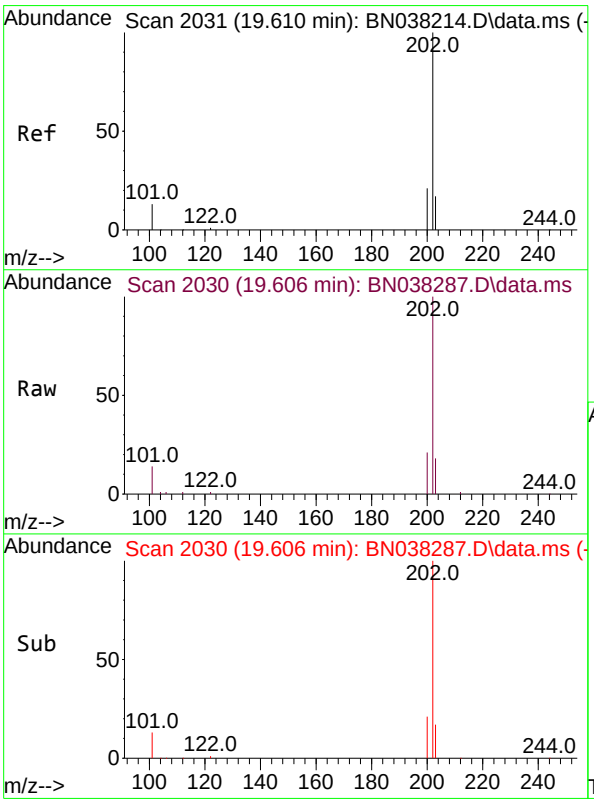
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.367 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 9751

Ion	Ratio	Lower	Upper
240	100		
120	17.8	18.1	27.1#
236	29.7	24.2	36.4

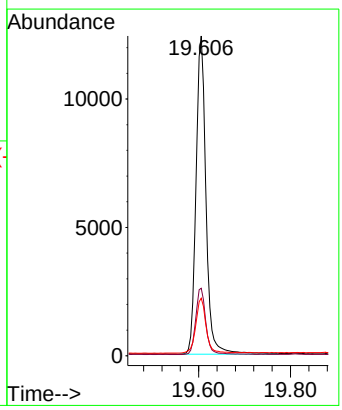


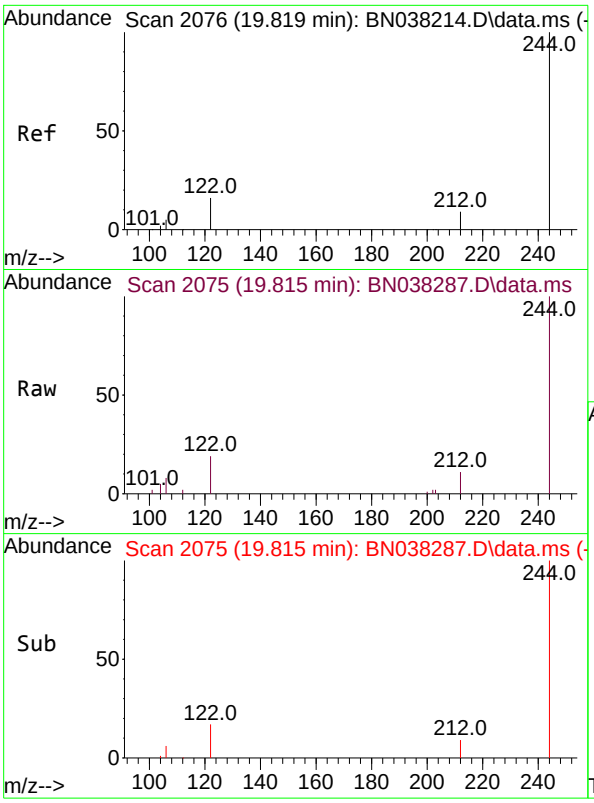


#30
Pyrene
Concen: 0.384 ng
RT: 19.606 min Scan# 2030
Delta R.T. -0.005 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Tgt Ion:202 Resp: 18705

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.8	25.2
203	17.7	14.4	21.6



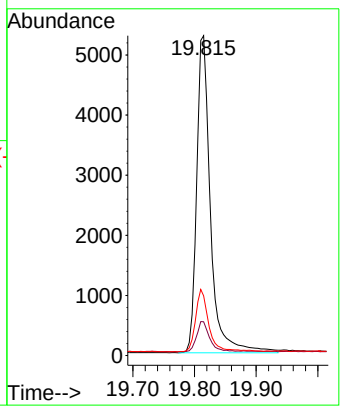


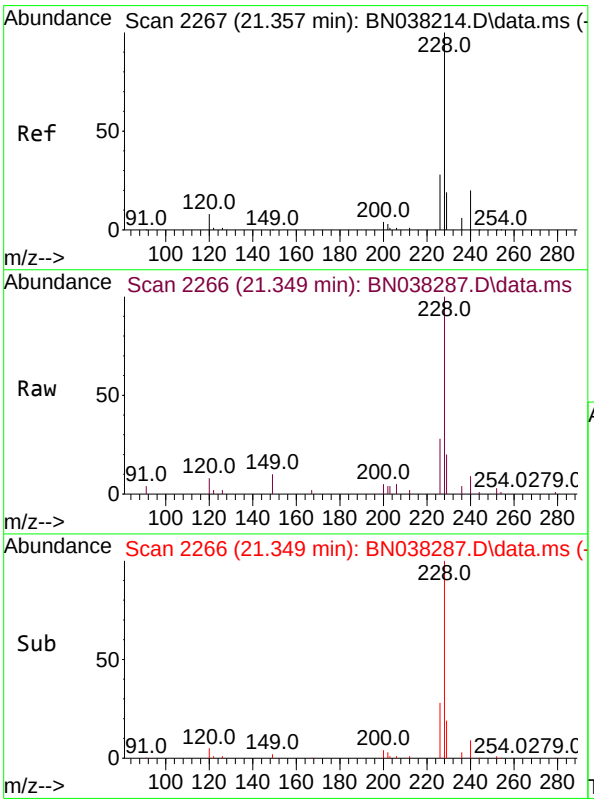
#31
Terphenyl-d14
Concen: 0.363 ng
RT: 19.815 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 8175

Ion	Ratio	Lower	Upper
244	100		
212	10.6	7.7	11.5
122	18.7	13.6	20.4

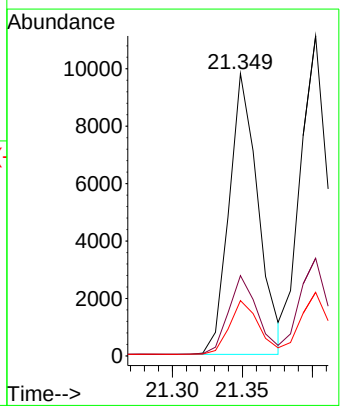


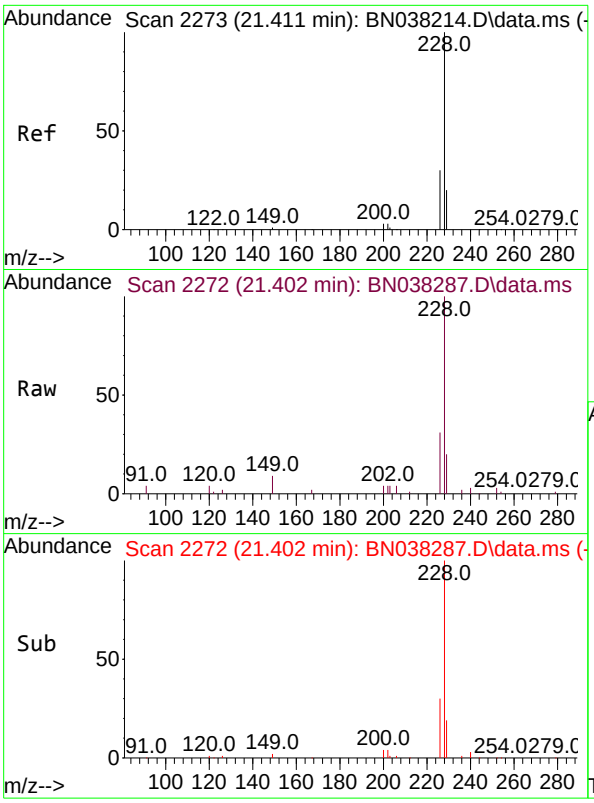


#32
Benzo(a)anthracene
Concen: 0.428 ng
RT: 21.349 min Scan# 2266
Delta R.T. -0.009 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Tgt Ion:228 Resp: 14124

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.6	33.8
229	19.6	15.8	23.8



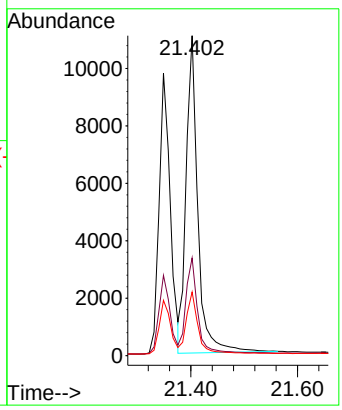


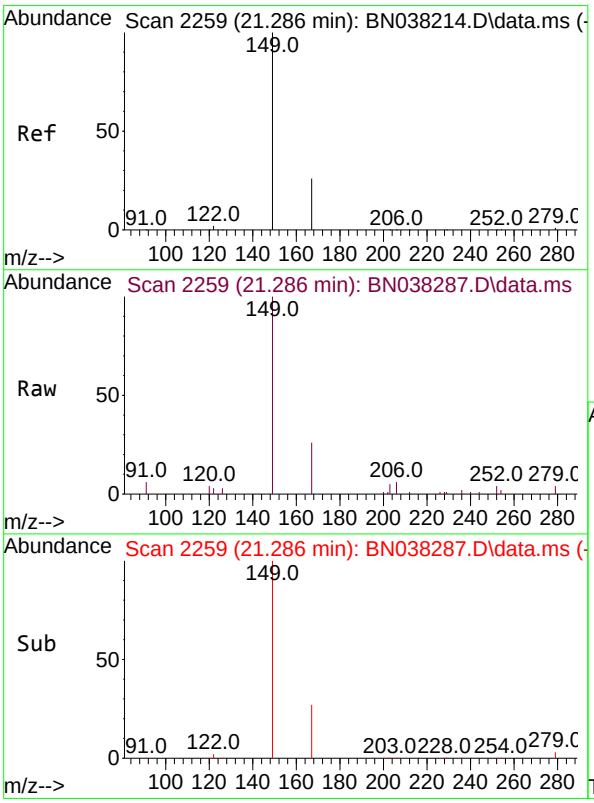
#33
Chrysene
Concen: 0.432 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 16850

Ion	Ratio	Lower	Upper
228	100		
226	30.5	23.8	35.8
229	19.9	16.1	24.1

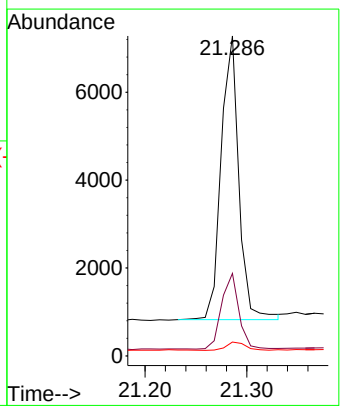


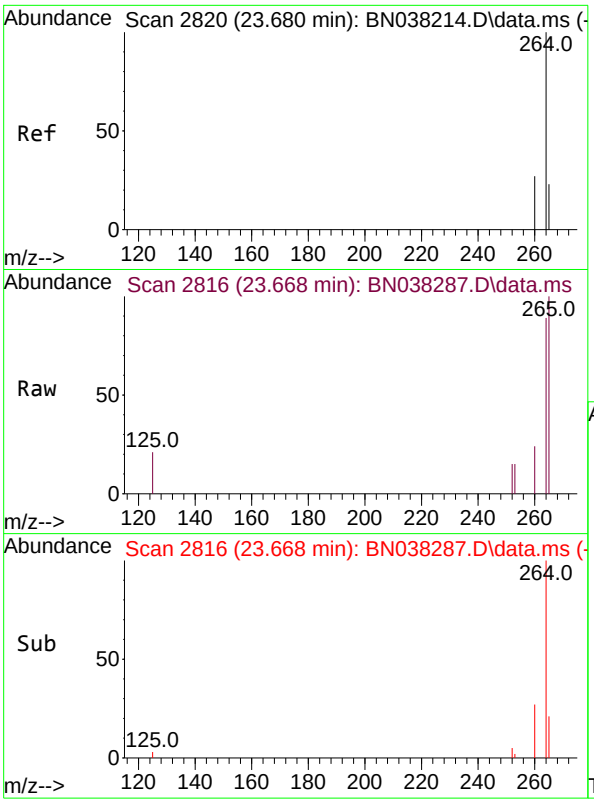


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.432 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Tgt Ion:149 Resp: 7820

Ion	Ratio	Lower	Upper
149	100		
167	26.0	20.7	31.1
279	3.2	2.5	3.7



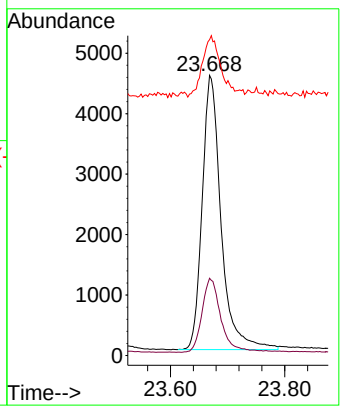


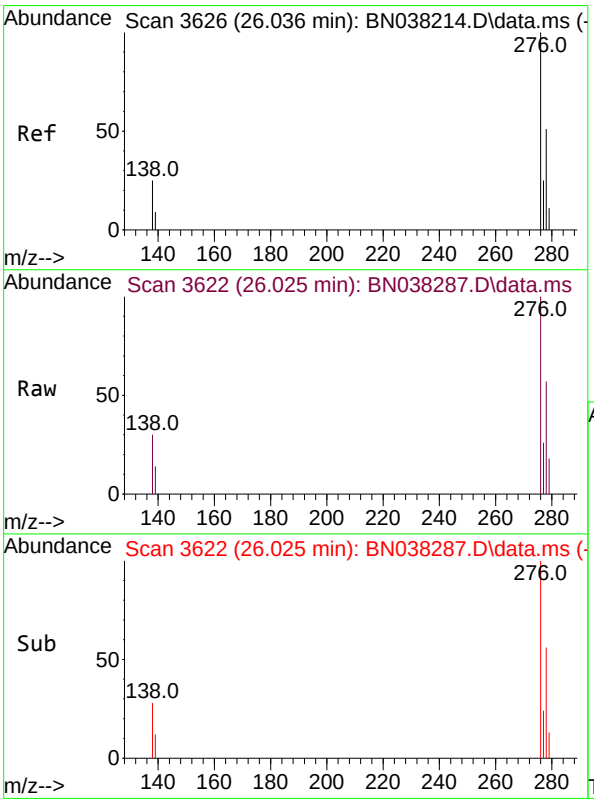
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.668 min Scan# 28
Delta R.T. -0.012 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 10410

Ion	Ratio	Lower	Upper
264	100		
260	27.6	21.7	32.5
265	112.8	98.0	147.0

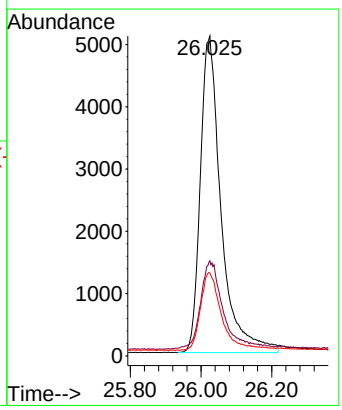


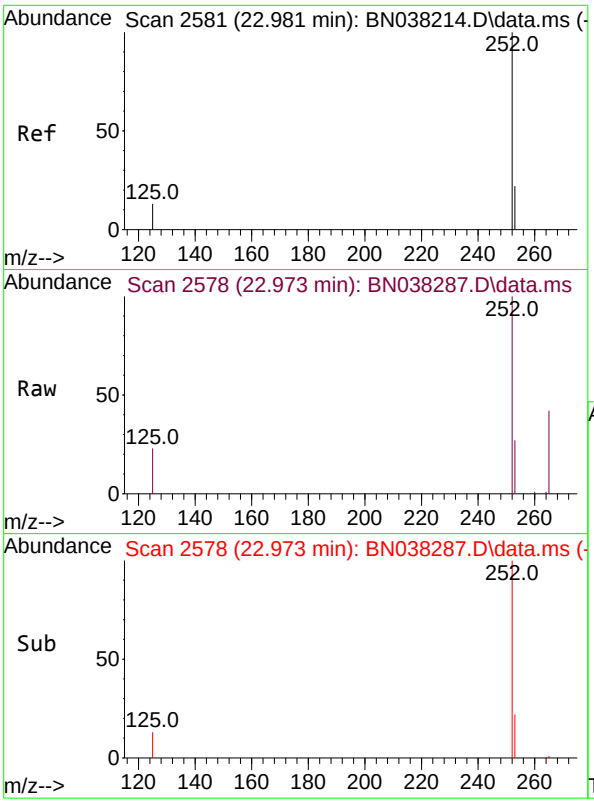


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.430 ng
RT: 26.025 min Scan# 3622
Delta R.T. -0.012 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Tgt Ion:276 Resp: 20723

Ion	Ratio	Lower	Upper
276	100		
138	28.9	21.4	32.2
277	24.1	19.1	28.7



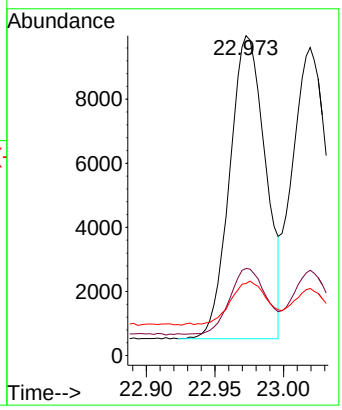


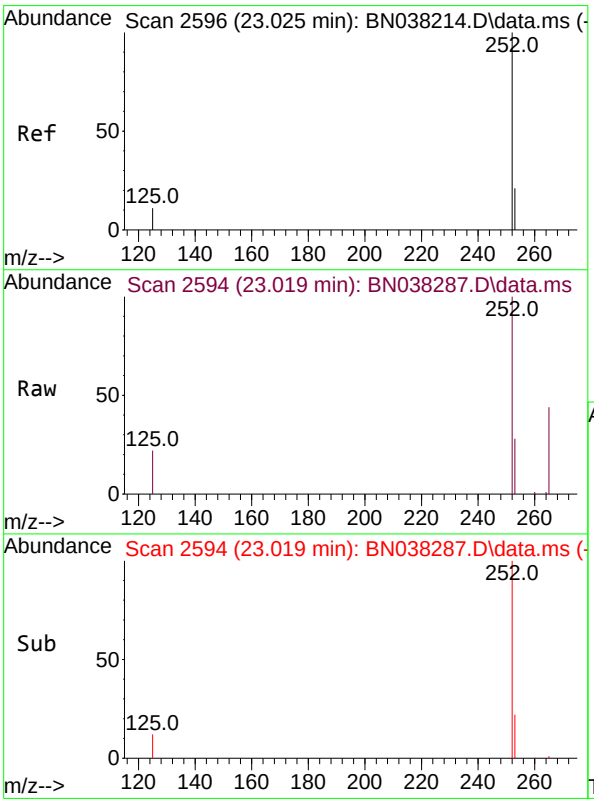
#37
Benzo(b)fluoranthene
Concen: 0.402 ng
RT: 22.973 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 17170

Ion	Ratio	Lower	Upper
252	100		
253	27.2	22.2	33.4
125	22.5	18.0	27.0

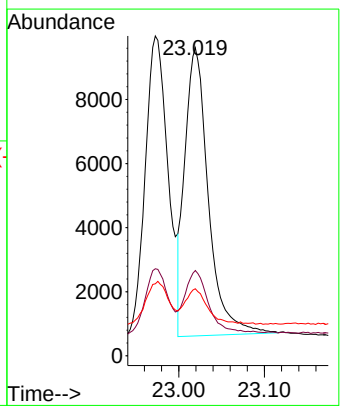


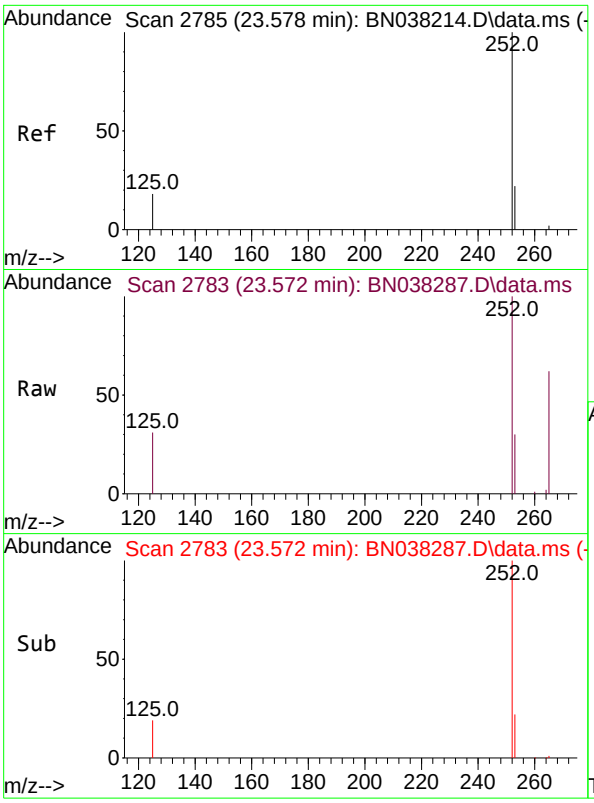


#38
Benzo(k)fluoranthene
Concen: 0.386 ng
RT: 23.019 min Scan# 2594
Delta R.T. -0.006 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Tgt Ion:252 Resp: 17157

Ion	Ratio	Lower	Upper
252	100		
253	27.7	22.4	33.6
125	21.8	17.5	26.3



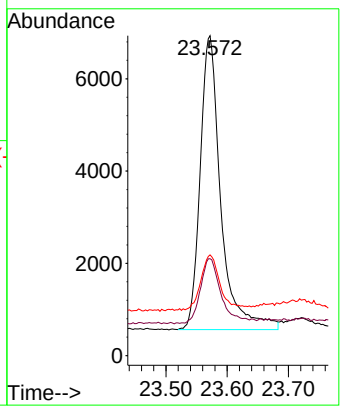


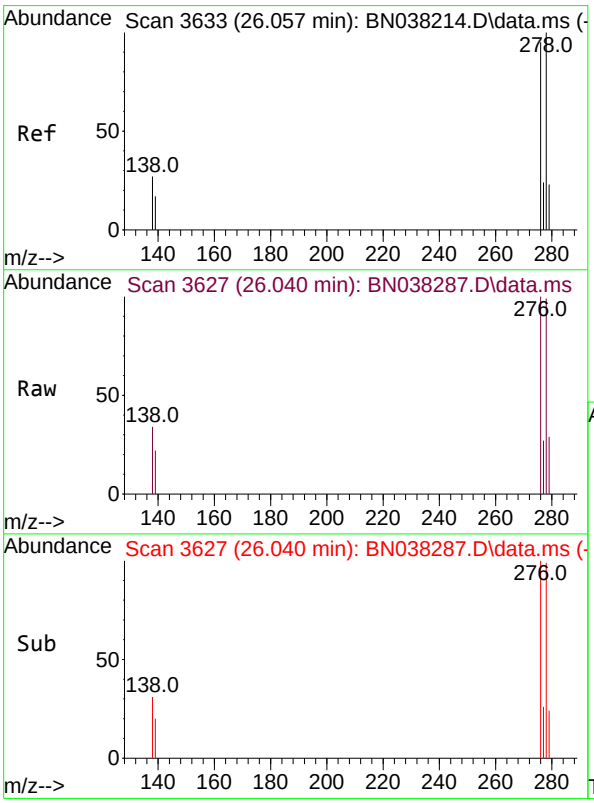
#39
Benzo(a)pyrene
Concen: 0.417 ng
RT: 23.572 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 14932

Ion	Ratio	Lower	Upper
252	100		
253	30.3	25.3	37.9
125	31.5	25.2	37.8

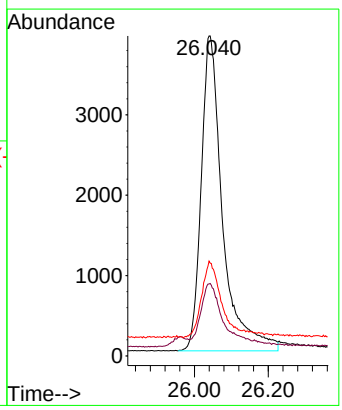


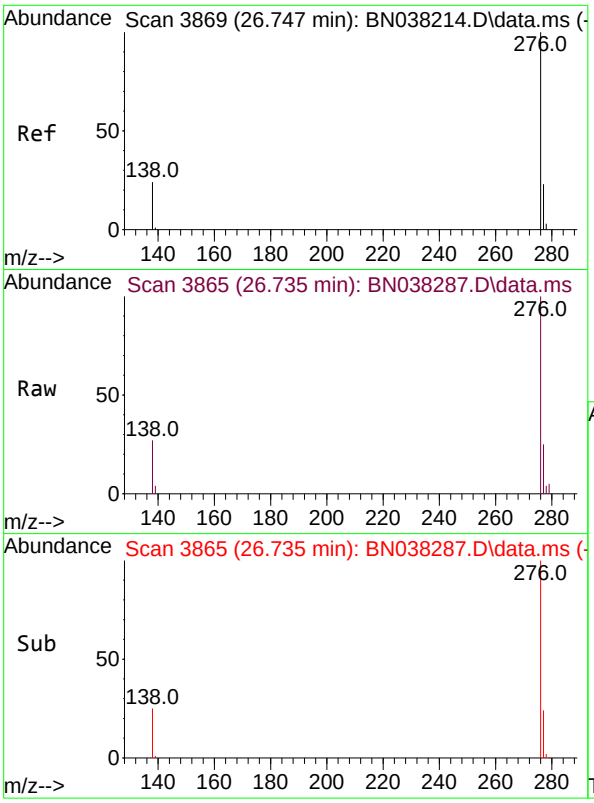


#40
Dibenzo(a,h)anthracene
Concen: 0.432 ng
RT: 26.040 min Scan# 3627
Delta R.T. -0.017 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Tgt Ion:278 Resp: 15748

Ion	Ratio	Lower	Upper
278	100		
139	22.5	17.6	26.4
279	29.7	24.2	36.4



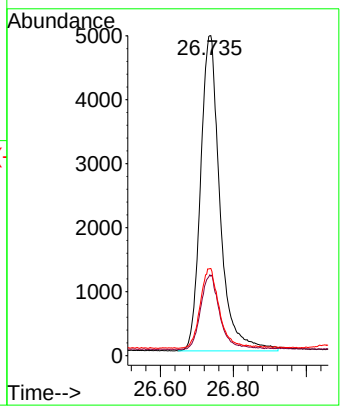


#41
Benzo(g,h,i)perylene
Concen: 0.418 ng
RT: 26.735 min Scan# 3
Delta R.T. -0.012 min
Lab File: BN038287.D
Acq: 05 Dec 2025 23:42

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 18218

Ion	Ratio	Lower	Upper
276	100		
277	25.2	20.2	30.2
138	27.2	20.8	31.2



Sample Results: **BN038287.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
Data File : BN038287.D
Acq On : 05 Dec 2025 23:42
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 06 00:13:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 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	92	0.00
2		1,4-Dioxane	0.421	0.446	-5.9	92	0.00
3		n-Nitrosodimethylamine	0.520	0.526	-1.2	90	0.00
4	S	2-Fluorophenol	0.935	0.980	-4.8	91	0.00
5	S	Phenol-d6	1.168	1.224	-4.8	93	-0.01
6		bis(2-Chloroethyl)ether	1.118	1.196	-7.0	93	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	89	-0.01
8	S	Nitrobenzene-d5	0.320	0.314	1.9	90	-0.01
9		Naphthalene	1.111	1.176	-5.9	91	-0.01
10		Hexachlorobutadiene	0.189	0.212	-12.2	94	-0.01
11	SURR	2-Methylnaphthalene-d10	0.568	0.582	-2.5	88	0.00
12		2-Methylnaphthalene	0.731	0.761	-4.1	89	-0.01
13	I	Acenaphthene-d10	1.000	1.000	0.0	80	-0.01
14	S	2,4,6-Tribromophenol	0.126	0.118	6.3	77	-0.01
15	S	2-Fluorobiphenyl	1.545	1.760	-13.9	89	-0.01
16		Acenaphthylene	1.789	1.868	-4.4	83	0.00
17		Acenaphthene	1.247	1.308	-4.9	81	-0.01
18		Fluorene	1.614	1.574	2.5	76	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	68	-0.01
20		4,6-Dinitro-2-methylphenol	0.042	0.024	42.9#	64	0.00
21		4-Bromophenyl-phenylether	0.277	0.312	-12.6	75	-0.01
22		Hexachlorobenzene	0.341	0.391	-14.7	74	0.00
23		Atrazine	0.177	0.184	-4.0	72	-0.01
24		Pentachlorophenol	0.093	0.105	-12.9	85	0.00
25		Phenanthrene	1.256	1.318	-4.9	68	-0.01
26		Anthracene	1.071	1.096	-2.3	70	0.00
27	SURR	Fluoranthene-d10	0.868	0.874	-0.7	67	0.00
28		Fluoranthene	1.210	1.254	-3.6	70	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	76	0.00
30		Pyrene	1.998	1.918	4.0	70	0.00
31	S	Terphenyl-d14	0.924	0.838	9.3	66	0.00
32		Benzo(a)anthracene	1.355	1.448	-6.9	81	0.00
33		Chrysene	1.599	1.728	-8.1	79	0.00
34		Bis(2-ethylhexyl)phthalate	0.742	0.802	-8.1	76	0.00
35	I	Perylene-d12	1.000	1.000	0.0	87	-0.01
36		Indeno(1,2,3-cd)pyrene	1.851	1.991	-7.6	92	-0.01
37		Benzo(b)fluoranthene	1.642	1.649	-0.4	84	0.00
38		Benzo(k)fluoranthene	1.707	1.648	3.5	82	0.00
39	C	Benzo(a)pyrene	1.376	1.434	-4.2	90	0.00
40		Dibenzo(a,h)anthracene	1.401	1.513	-8.0	95	-0.02
41		Benzo(g,h,i)perylene	1.674	1.750	-4.5	89	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Evaluate Continuing Calibration Report

Sample Results: **BN038287.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
Data File : BN038287.D
Acq On : 05 Dec 2025 23:42
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 06 00:13:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 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	92	0.00
2		1,4-Dioxane	0.400	0.423	-5.7	92	0.00
3		n-Nitrosodimethylamine	0.400	0.405	-1.3	90	0.00
4	S	2-Fluorophenol	0.400	0.419	-4.7	91	0.00
5	S	Phenol-d6	0.400	0.419	-4.7	93	-0.01
6		bis(2-Chloroethyl)ether	0.400	0.428	-7.0	93	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	89	-0.01
8	S	Nitrobenzene-d5	0.400	0.393	1.8	90	-0.01
9		Naphthalene	0.400	0.423	-5.7	91	-0.01
10		Hexachlorobutadiene	0.400	0.448	-12.0	94	-0.01
11	SURR	2-Methylnaphthalene-d10	0.400	0.410	-2.5	88	0.00
12		2-Methylnaphthalene	0.400	0.416	-4.0	89	-0.01
13	I	Acenaphthene-d10	0.400	0.400	0.0	80	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.377	5.8	77	-0.01
15	S	2-Fluorobiphenyl	0.400	0.456	-14.0	89	-0.01
16		Acenaphthylene	0.400	0.418	-4.5	83	0.00
17		Acenaphthene	0.400	0.420	-5.0	81	-0.01
18		Fluorene	0.400	0.390	2.5	76	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	68	-0.01
20		4,6-Dinitro-2-methylphenol	0.400	0.398	0.5	64	0.00
21		4-Bromophenyl-phenylether	0.400	0.451	-12.7	75	-0.01
22		Hexachlorobenzene	0.400	0.459	-14.8	74	0.00
23		Atrazine	0.400	0.416	-4.0	72	-0.01
24		Pentachlorophenol	0.400	0.449	-12.2	85	0.00
25		Phenanthrene	0.400	0.420	-5.0	68	-0.01
26		Anthracene	0.400	0.409	-2.2	70	0.00
27	SURR	Fluoranthene-d10	0.400	0.403	-0.8	67	0.00
28		Fluoranthene	0.400	0.414	-3.5	70	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	76	0.00
30		Pyrene	0.400	0.384	4.0	70	0.00
31	S	Terphenyl-d14	0.400	0.363	9.3	66	0.00
32		Benzo(a)anthracene	0.400	0.428	-7.0	81	0.00
33		Chrysene	0.400	0.432	-8.0	79	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.432	-8.0	76	0.00
35	I	Perylene-d12	0.400	0.400	0.0	87	-0.01
36		Indeno(1,2,3-cd)pyrene	0.400	0.430	-7.5	92	-0.01
37		Benzo(b)fluoranthene	0.400	0.402	-0.5	84	0.00
38		Benzo(k)fluoranthene	0.400	0.386	3.5	82	0.00
39	C	Benzo(a)pyrene	0.400	0.417	-4.2	90	0.00
40		Dibenzo(a,h)anthracene	0.400	0.432	-8.0	95	-0.02
41		Benzo(g,h,i)perylene	0.400	0.418	-4.5	89	-0.01

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name:	Alliance	Contract:	JACO05		
Lab Code:	ACE	SDG No.:	Q3756		
Instrument ID:	BNA_N	Calibration Date/Time:	12/11/2025	23:59	
Lab File ID:	BN038330.D	Init. Calib. Date(s):	12/10/2025	12/10/2025	
EPA Sample No.:	SSTDCCC0.4	Init. Calib. Time(s):	09:52	13:30	

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.564	0.557		-1.2	20.0
Fluoranthene-d10	0.990	0.988		-0.2	20.0
2-Fluorophenol	0.996	0.984		-1.2	20.0
Phenol-d6	1.184	1.177		-0.6	20.0
Nitrobenzene-d5	0.337	0.326		-3.3	20.0
2-Fluorobiphenyl	1.914	1.919		0.3	20.0
2,4,6-Tribromophenol	0.177	0.159		-10.2	20.0
Terphenyl-d14	0.893	0.848		-5.0	20.0
1,4-Dioxane	0.459	0.479		4.4	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121125\
Data File : BN038330.D
Acq On : 11 Dec 2025 23:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 12 00:29:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration

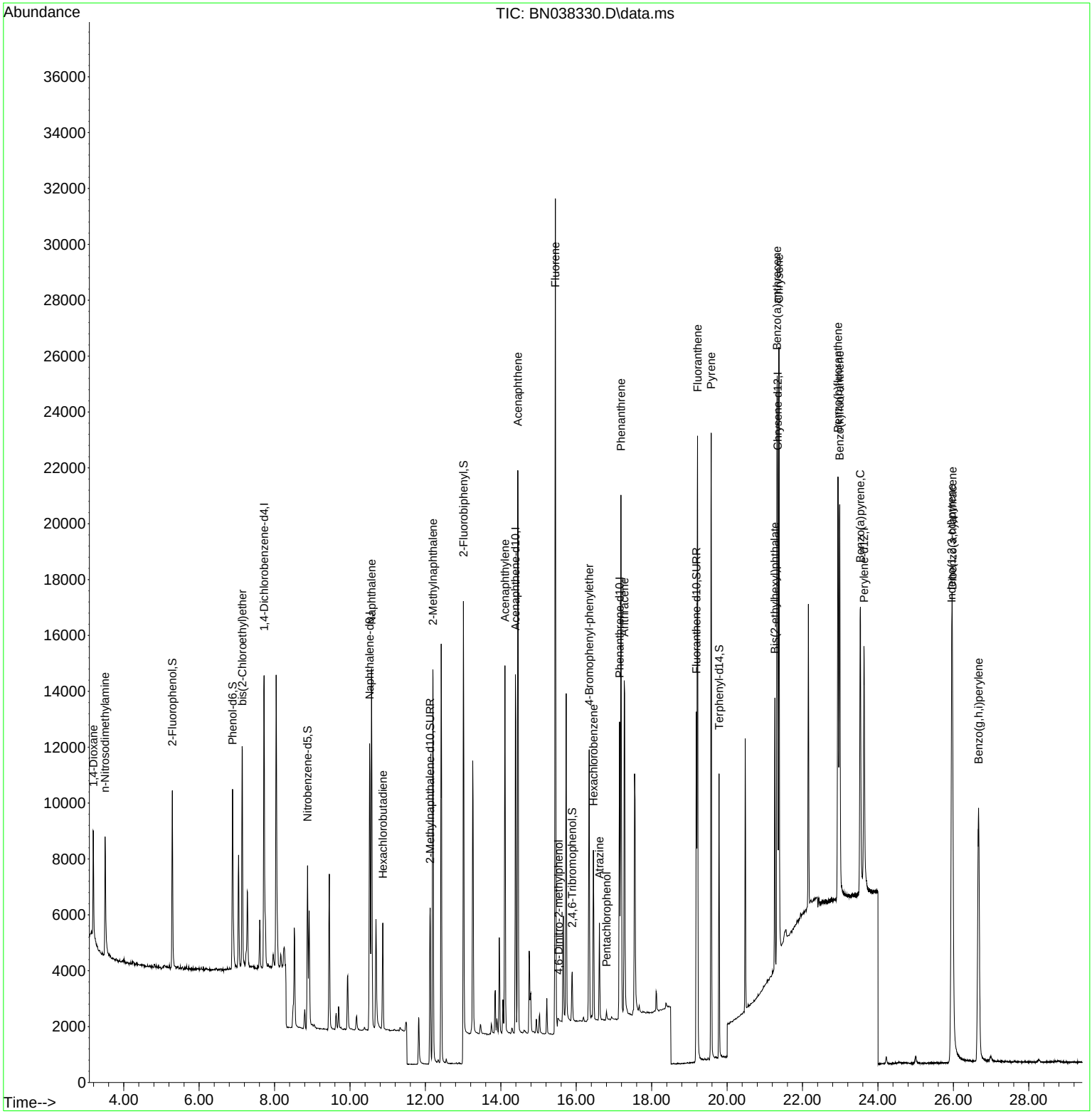
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.724	152	5325	0.400	ng		0.00
7) Naphthalene-d8	10.519	136	14404	0.400	ng		#-0.01
13) Acenaphthene-d10	14.387	164	7509	0.400	ng		-0.01
19) Phenanthrene-d10	17.148	188	13836	0.400	ng		0.00
29) Chrysene-d12	21.339	240	10979	0.400	ng		0.00
35) Perylene-d12	23.630	264	11587	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.290	112	5242	0.395	ng		0.00
5) Phenol-d6	6.886	99	6267	0.398	ng		0.00
8) Nitrobenzene-d5	8.875	82	4702	0.387	ng		0.00
11) 2-Methylnaphthalene-d10	12.126	152	8023	0.395	ng		0.00
14) 2,4,6-Tribromophenol	15.895	330	1194	0.358	ng		0.00
15) 2-Fluorobiphenyl	13.008	172	14408	0.398	ng		0.00
27) Fluoranthene-d10	19.187	212	13666	0.399	ng		0.00
31) Terphenyl-d14	19.787	244	9312	0.380	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.196	88	2553	0.418	ng		97
3) n-Nitrosodimethylamine	3.506	42	2945	0.385	ng		99
6) bis(2-Chloroethyl)ether	7.146	93	6188	0.401	ng		99
9) Naphthalene	10.573	128	16835	0.395	ng		100
10) Hexachlorobutadiene	10.872	225	2984	0.394	ng	#	100
12) 2-Methylnaphthalene	12.197	142	10700	0.396	ng		99
16) Acenaphthylene	14.109	152	14216	0.386	ng		99
17) Acenaphthene	14.452	154	9650	0.376	ng		97
18) Fluorene	15.446	166	12774	0.386	ng		99
20) 4,6-Dinitro-2-methylph...	15.535	198	132	0.058	ng	#	1
21) 4-Bromophenyl-phenylether	16.342	248	3914	0.381	ng		98
22) Hexachlorobenzene	16.453	284	4794	0.388	ng		99
23) Atrazine	16.615	200	2660	0.380	ng		98
24) Pentachlorophenol	16.801	266	196	0.041	ng		96
25) Phenanthrene	17.186	178	18585	0.386	ng		100
26) Anthracene	17.273	178	15922	0.383	ng		100
28) Fluoranthene	19.215	202	20173	0.394	ng		100
30) Pyrene	19.578	202	20437	0.378	ng		100
32) Benzo(a)anthracene	21.322	228	16446	0.388	ng		99
33) Chrysene	21.375	228	18567	0.398	ng		99
34) Bis(2-ethylhexyl)phtha...	21.268	149	8928	0.384	ng		99
36) Indeno(1,2,3-cd)pyrene	25.955	276	22867	0.372	ng		98
37) Benzo(b)fluoranthene	22.940	252	19430	0.365	ng		100
38) Benzo(k)fluoranthene	22.984	252	18984	0.358	ng		100
39) Benzo(a)pyrene	23.534	252	15994	0.367	ng		99
40) Dibenzo(a,h)anthracene	25.975	278	17925	0.378	ng		99
41) Benzo(g,h,i)perylene	26.668	276	19418	0.366	ng		100

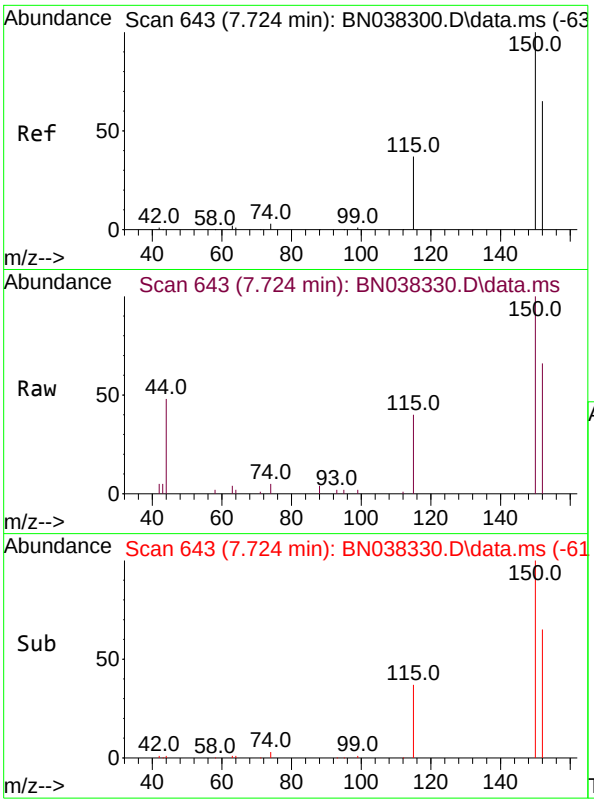
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121125\
Data File : BN038330.D
Acq On : 11 Dec 2025 23:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Dec 12 00:29:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration



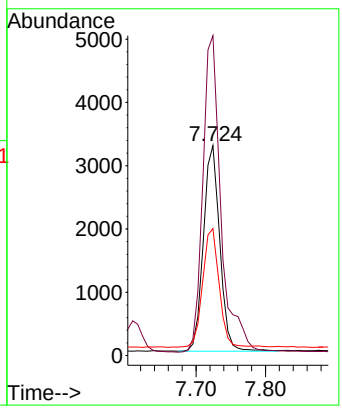


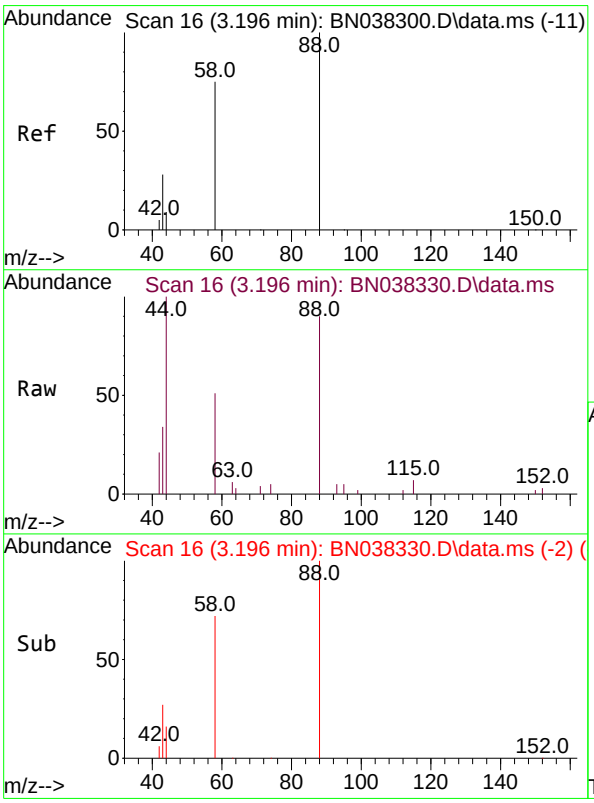
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.724 min Scan# 64
Delta R.T. 0.000 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 5325

Ion	Ratio	Lower	Upper
152	100		
150	152.4	122.4	183.6
115	60.5	47.3	70.9

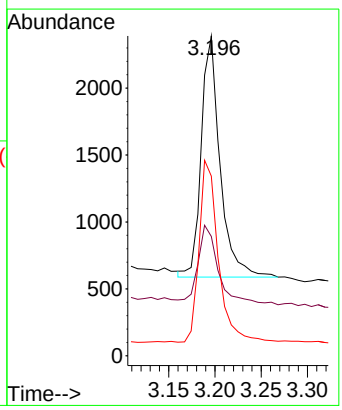


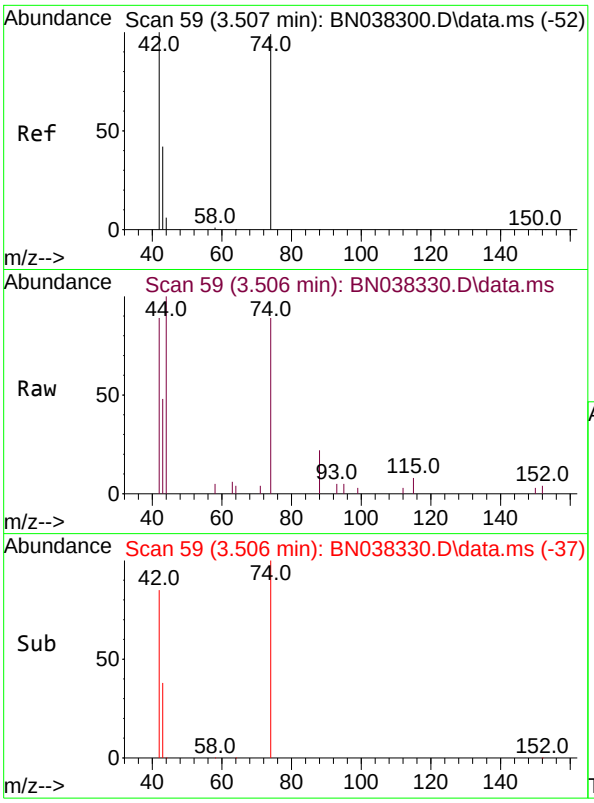


#2
1,4-Dioxane
Concen: 0.418 ng
RT: 3.196 min Scan# 16
Delta R.T. -0.000 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Tgt Ion: 88 Resp: 2553

Ion	Ratio	Lower	Upper
88	100		
43	36.5	24.9	37.3
58	76.5	61.4	92.0



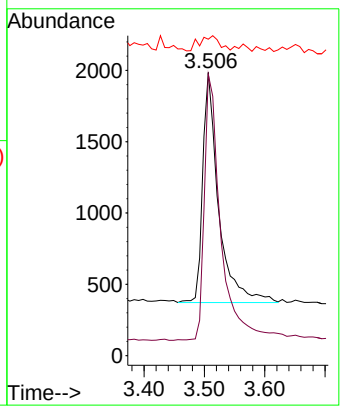


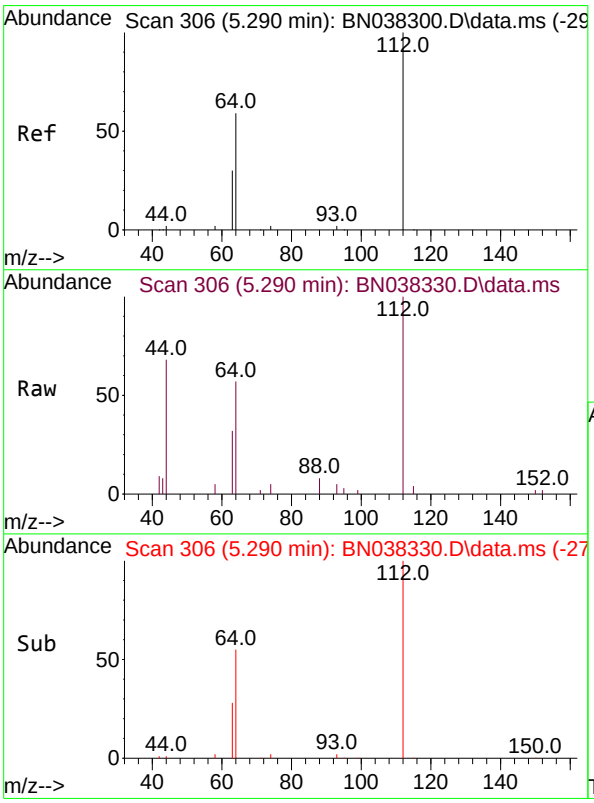
#3
n-Nitrosodimethylamine
Concen: 0.385 ng
RT: 3.506 min Scan# 59
Delta R.T. 0.007 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 2945

Ion	Ratio	Lower	Upper
42	100		
74	120.0	95.3	142.9
44	8.0	7.9	11.9

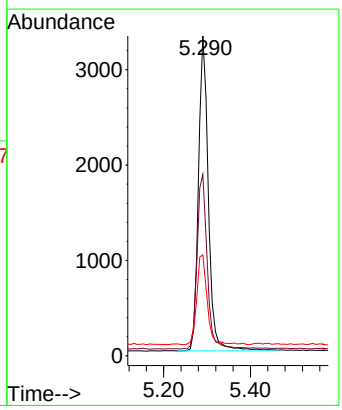


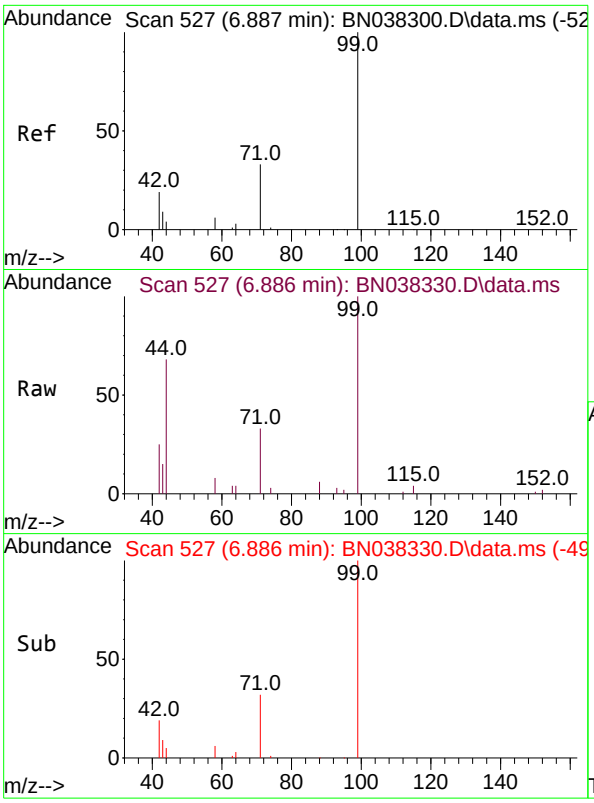


#4
2-Fluorophenol
Concen: 0.395 ng
RT: 5.290 min Scan# 306
Delta R.T. -0.000 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Tgt Ion:112 Resp: 5242

Ion	Ratio	Lower	Upper
112	100		
64	56.4	44.4	66.6
63	30.0	23.4	35.0



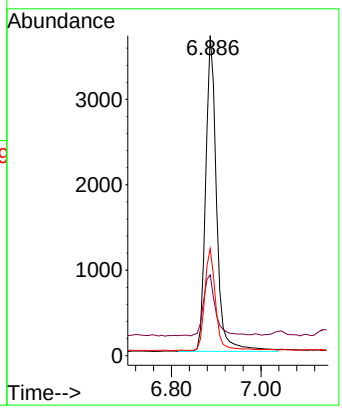


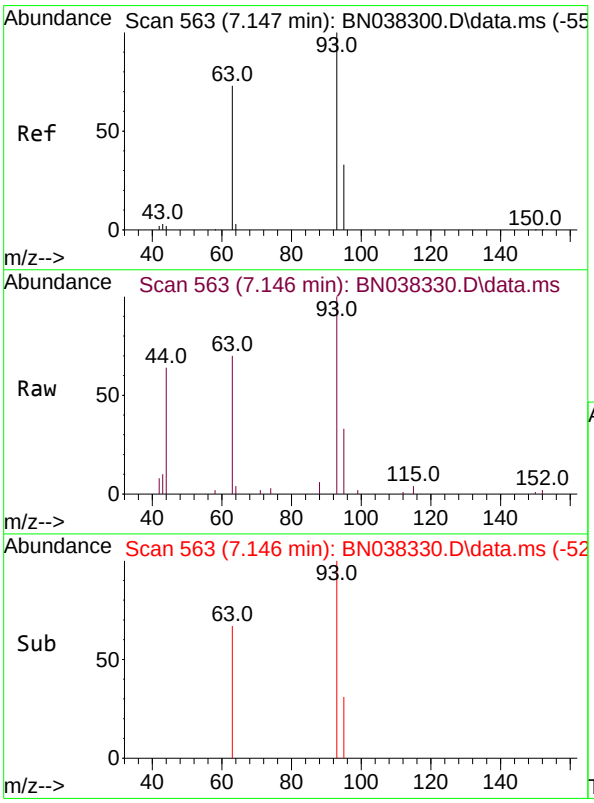
#5
Phenol-d6
Concen: 0.398 ng
RT: 6.886 min Scan# 5
Delta R.T. -0.000 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 6267

Ion	Ratio	Lower	Upper
99	100		
42	21.3	16.5	24.7
71	31.9	24.9	37.3

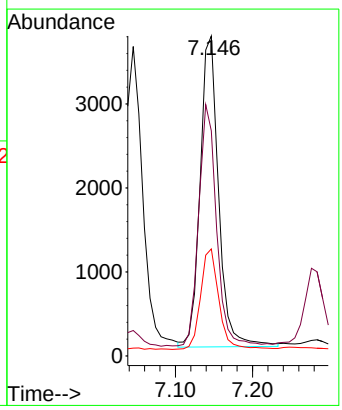


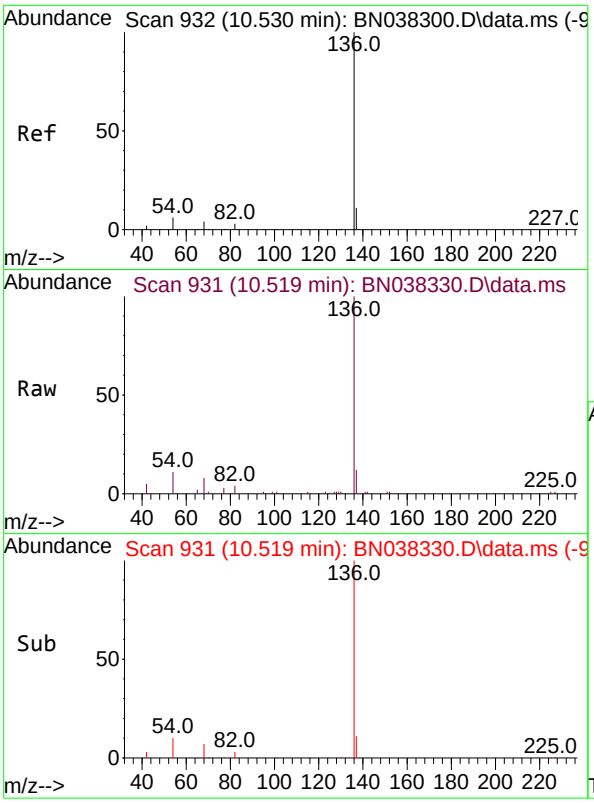


#6
bis(2-Chloroethyl)ether
Concen: 0.401 ng
RT: 7.146 min Scan# 563
Delta R.T. -0.000 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Tgt Ion: 93 Resp: 6188

Ion	Ratio	Lower	Upper
93	100		
63	74.4	59.2	88.8
95	31.9	25.2	37.8



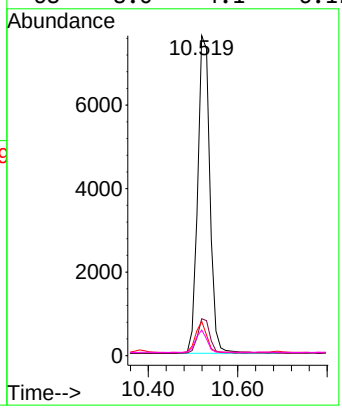


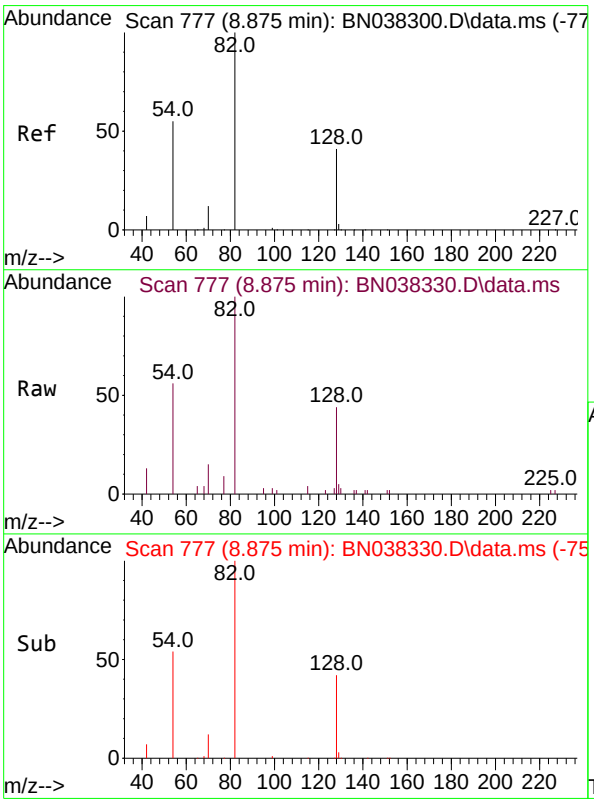
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.519 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 14404

Ion	Ratio	Lower	Upper
136	100		
137	11.5	9.1	13.7
54	10.7	5.2	7.8#
68	8.0	4.1	6.1#

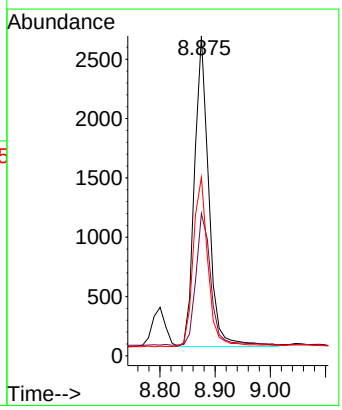


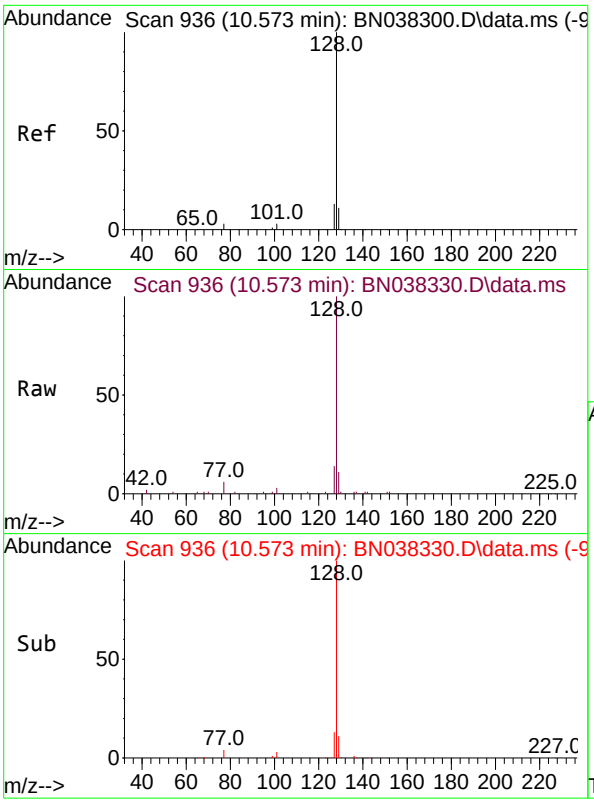


#8
Nitrobenzene-d5
Concen: 0.387 ng
RT: 8.875 min Scan# 777
Delta R.T. -0.000 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Tgt Ion: 82 Resp: 4702

Ion	Ratio	Lower	Upper
82	100		
128	44.5	34.0	51.0
54	55.8	44.4	66.6



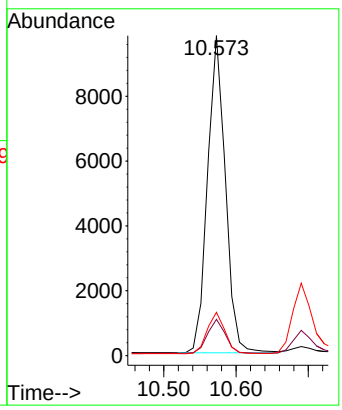


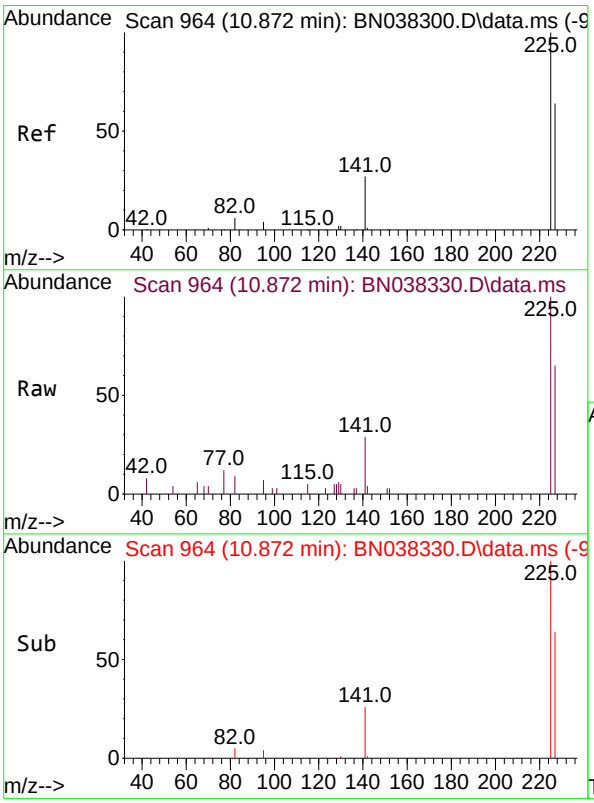
#9
Naphthalene
Concen: 0.395 ng
RT: 10.573 min Scan# 9
Delta R.T. -0.000 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 16835

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.1	13.7
127	13.5	10.9	16.3

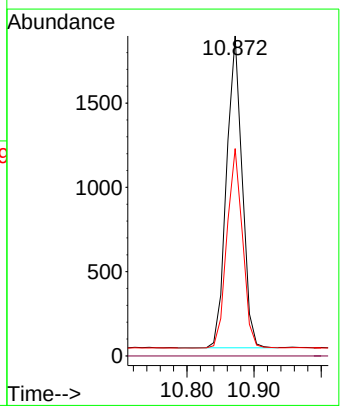


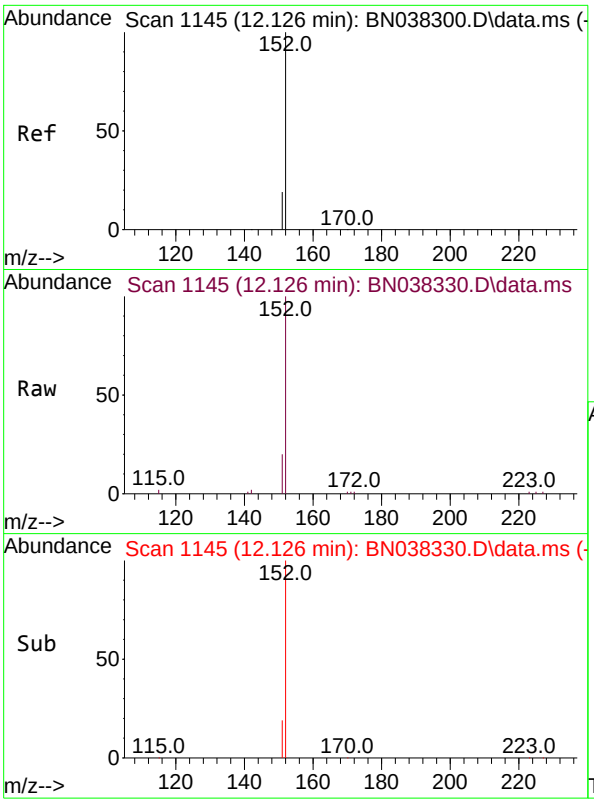


#10
Hexachlorobutadiene
Concen: 0.394 ng
RT: 10.872 min Scan# 964
Delta R.T. -0.000 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Tgt Ion:225 Resp: 2984

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	51.2	76.8



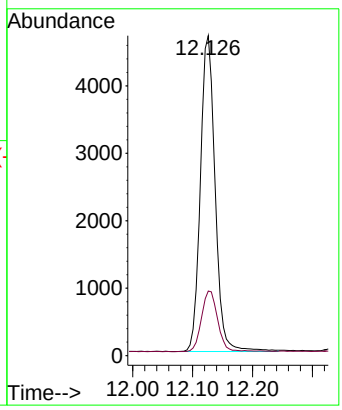


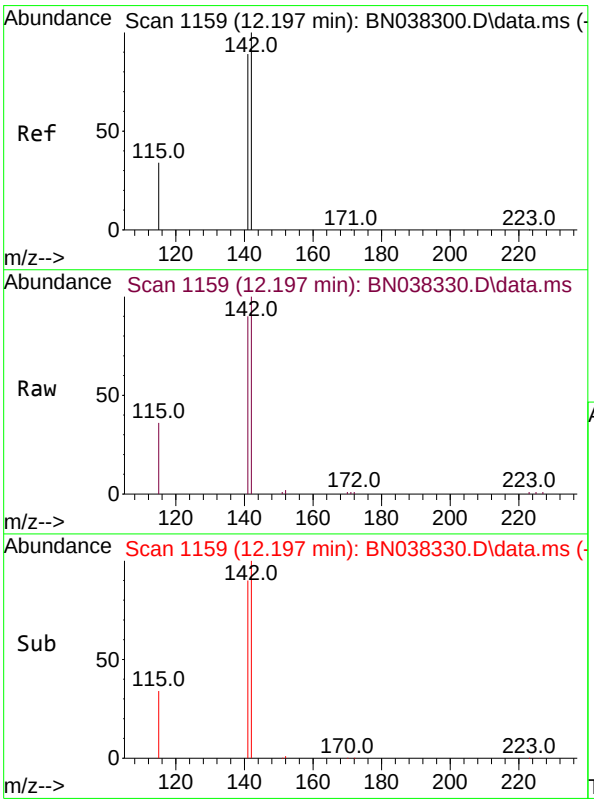
#11
2-Methylnaphthalene-d10
Concen: 0.395 ng
RT: 12.126 min Scan# 11
Delta R.T. -0.000 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 8023

Ion	Ratio	Lower	Upper
152	100		
151	21.2	17.0	25.6

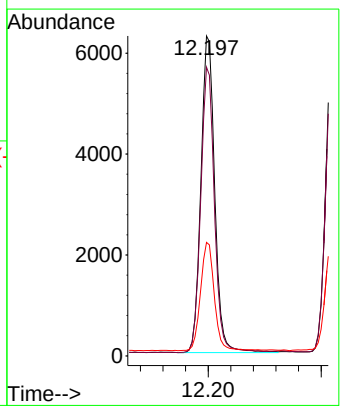


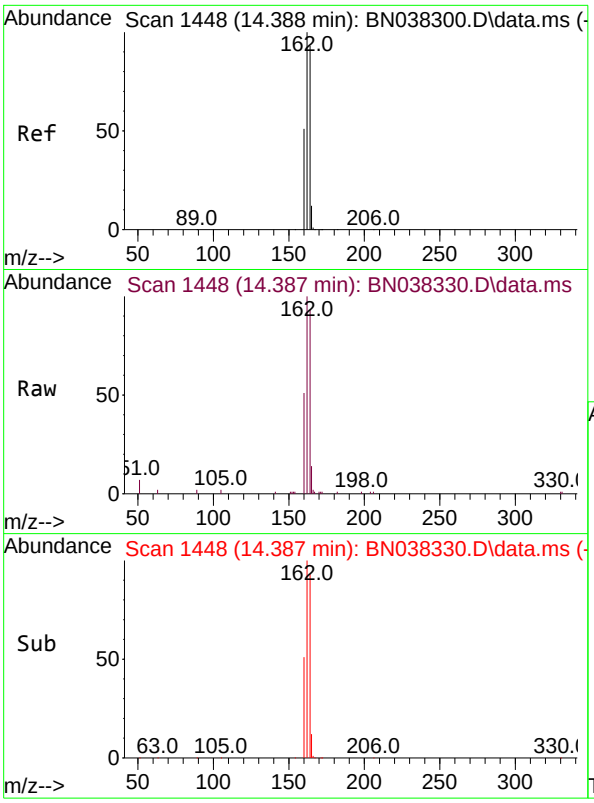


#12
2-Methylnaphthalene
Concen: 0.396 ng
RT: 12.197 min Scan# 1159
Delta R.T. -0.005 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Tgt Ion:142 Resp: 10700

Ion	Ratio	Lower	Upper
142	100		
141	90.2	71.4	107.2
115	35.5	28.4	42.6



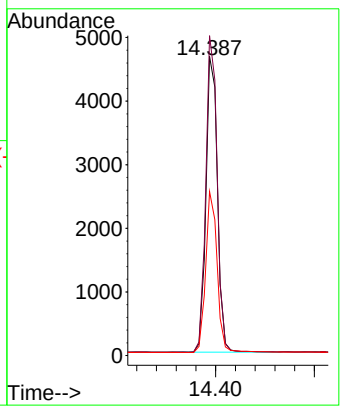


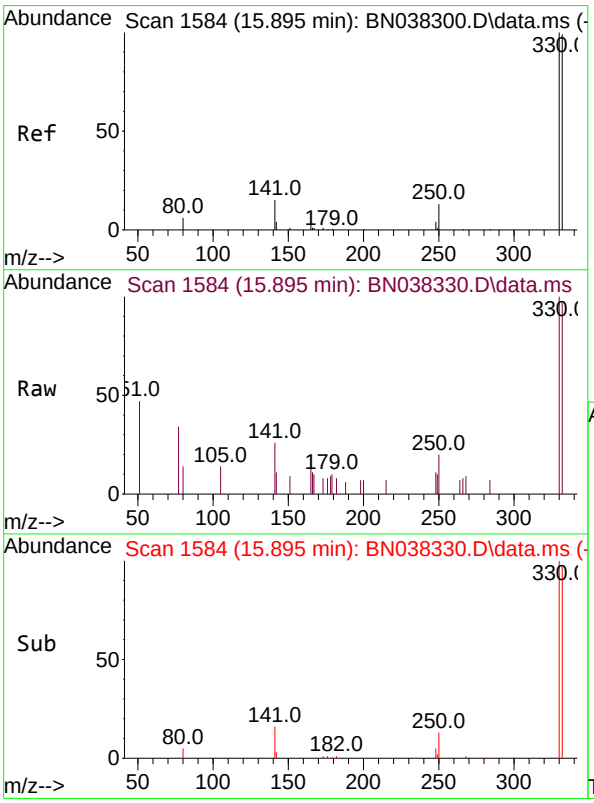
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.387 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 7509

Ion	Ratio	Lower	Upper
164	100		
162	107.0	86.2	129.4
160	54.8	44.6	67.0

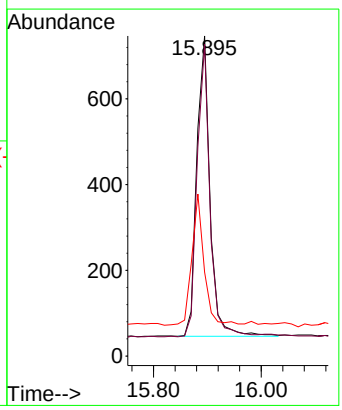


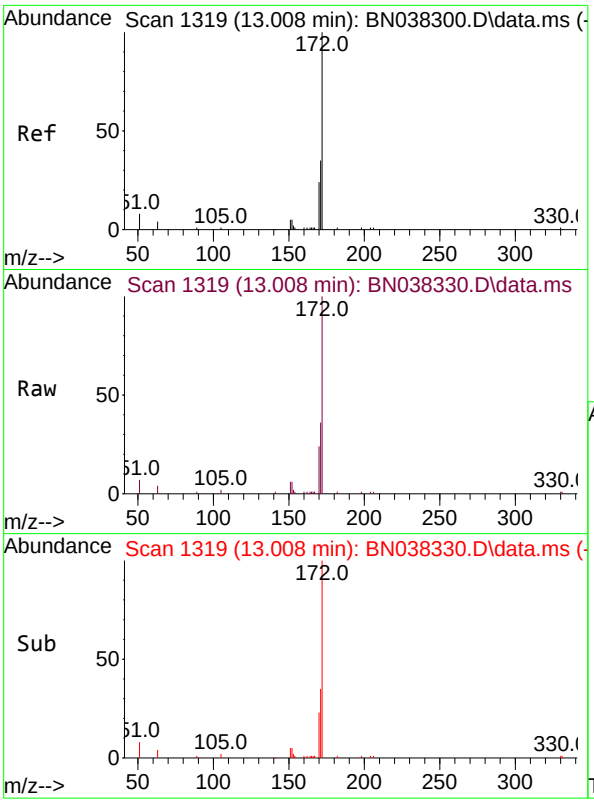


#14
2,4,6-Tribromophenol
Concen: 0.358 ng
RT: 15.895 min Scan# 1584
Delta R.T. -0.000 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Tgt Ion:330 Resp: 1194

Ion	Ratio	Lower	Upper
330	100		
332	94.2	75.8	113.6
141	40.2	31.8	47.8



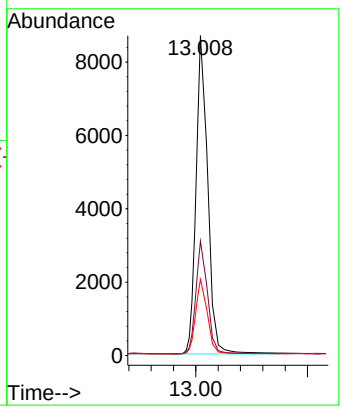


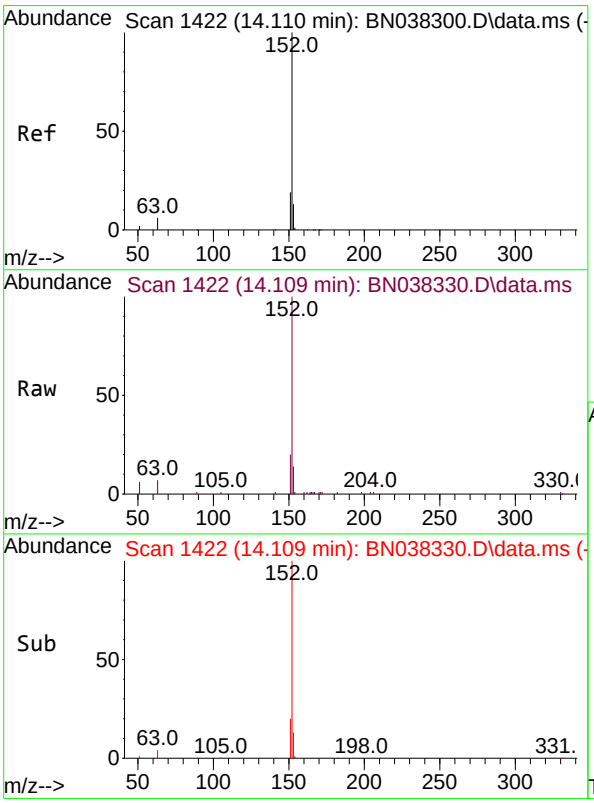
#15
2-Fluorobiphenyl
Concen: 0.398 ng
RT: 13.008 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 14408

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.6	42.8
170	23.8	19.3	28.9

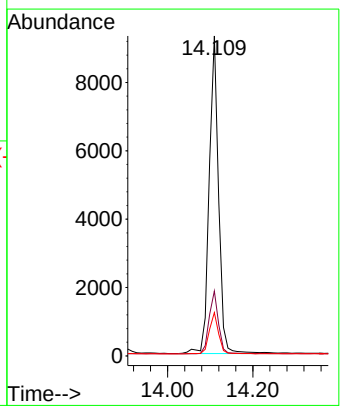


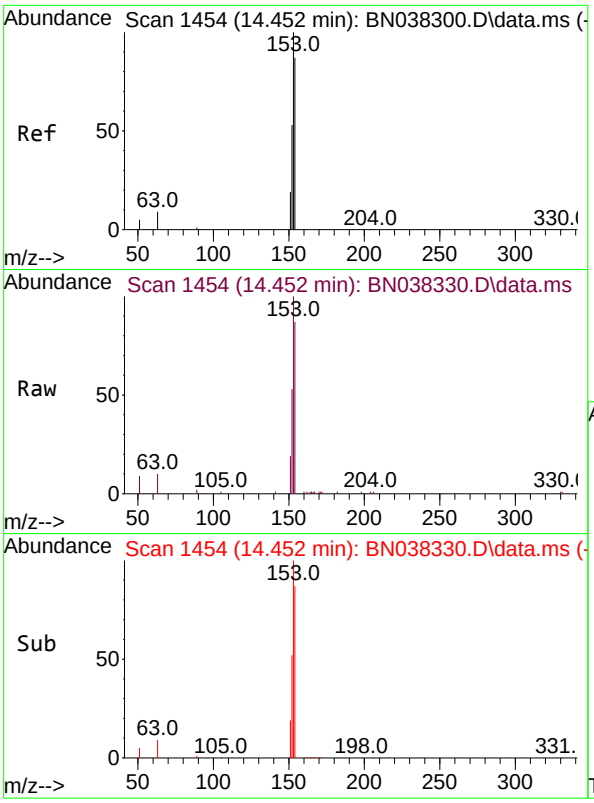


#16
Acenaphthylene
Concen: 0.386 ng
RT: 14.109 min Scan# 1422
Delta R.T. -0.000 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Tgt Ion:152 Resp: 14216

Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.4	23.2
153	13.0	10.2	15.4



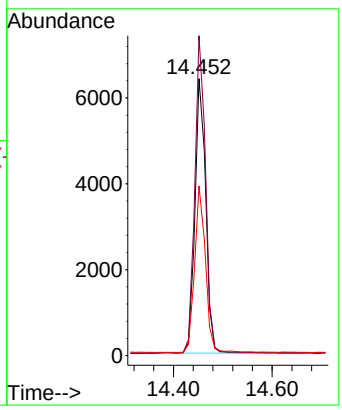


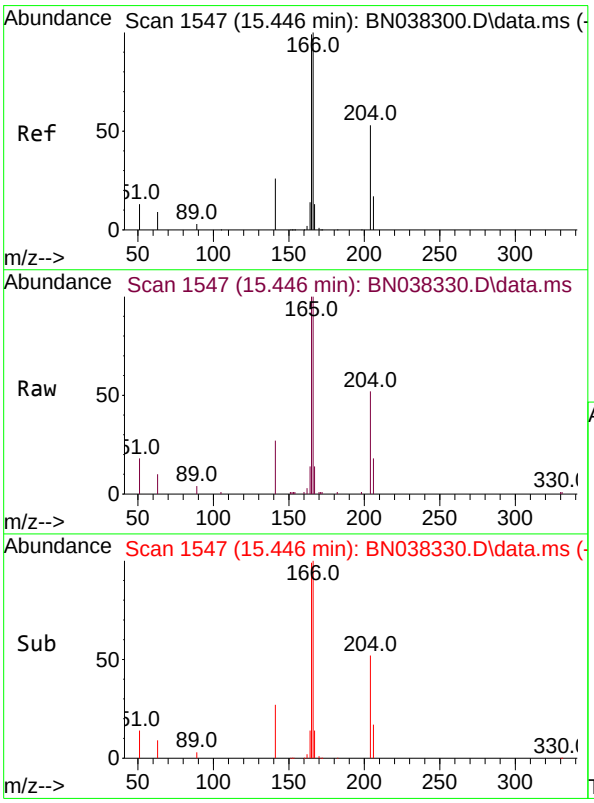
#17
Acenaphthene
Concen: 0.376 ng
RT: 14.452 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 9650

Ion	Ratio	Lower	Upper
154	100		
153	116.1	89.8	134.8
152	61.7	47.5	71.3

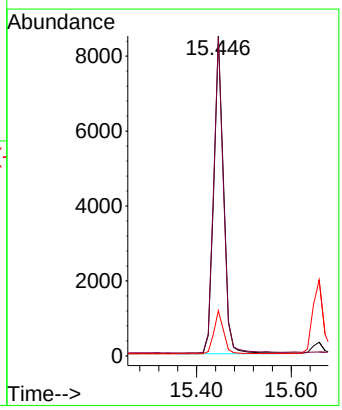


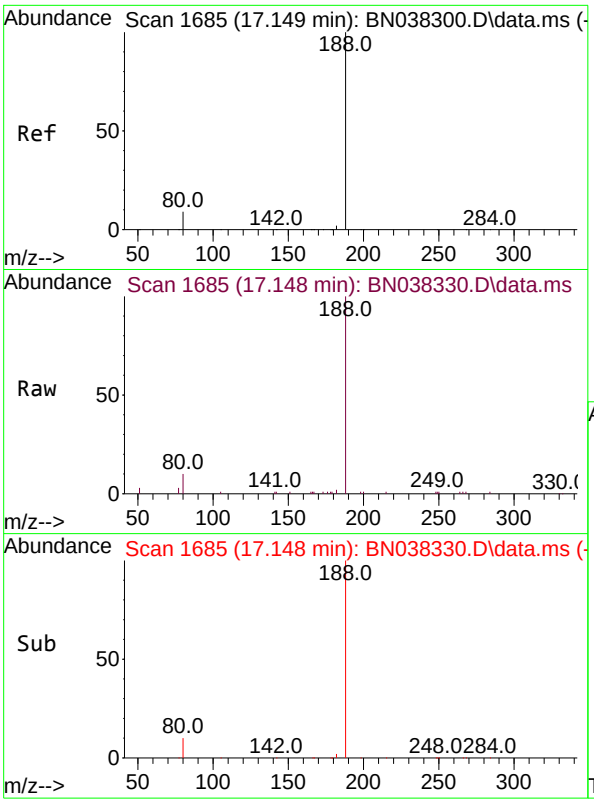


#18
Fluorene
Concen: 0.386 ng
RT: 15.446 min Scan# 1547
Delta R.T. -0.000 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Tgt Ion:166 Resp: 12774

Ion	Ratio	Lower	Upper
166	100		
165	99.3	80.2	120.4
167	13.1	10.6	16.0



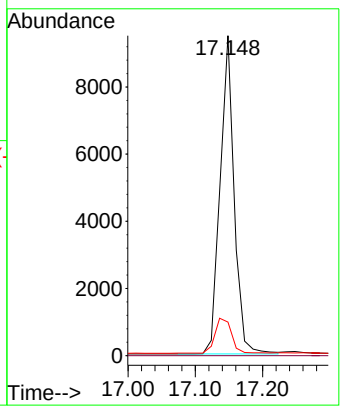


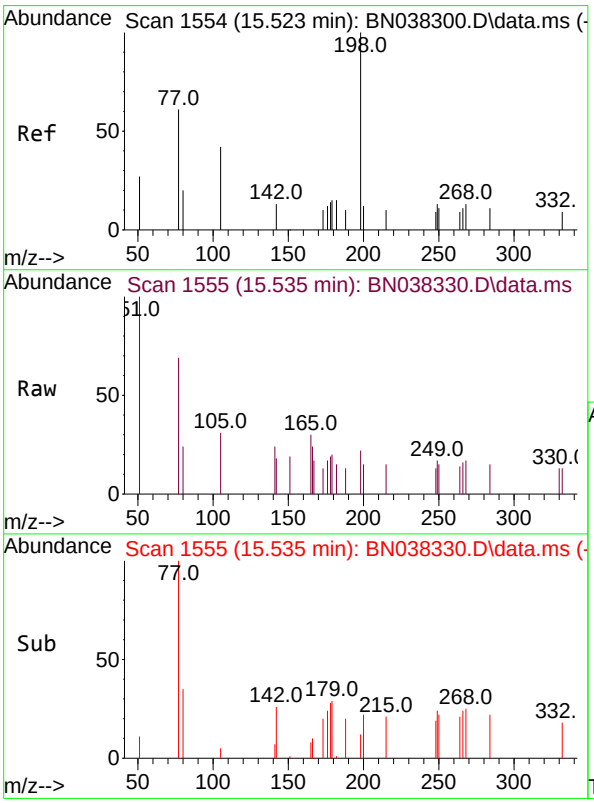
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.148 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 13836

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.5	7.4	11.0

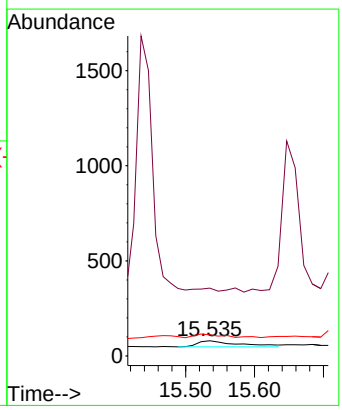


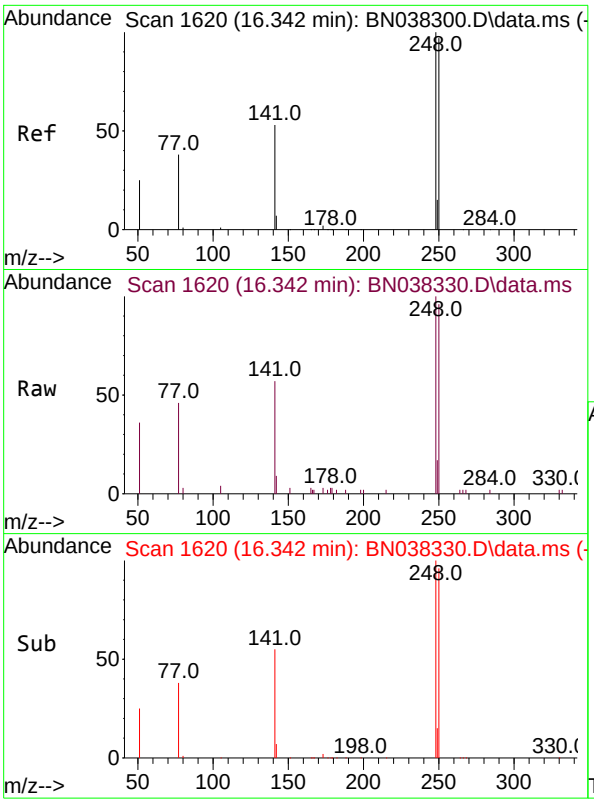


#20
4,6-Dinitro-2-methylphenol
Concen: 0.058 ng
RT: 15.535 min Scan# 1555
Delta R.T. 0.013 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Tgt Ion:198 Resp: 132

Ion	Ratio	Lower	Upper
198	100		
51	446.2	86.3	129.5#
105	138.7	45.3	67.9#



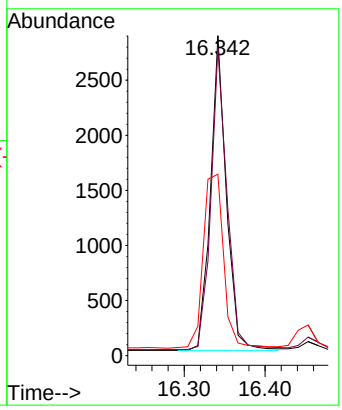


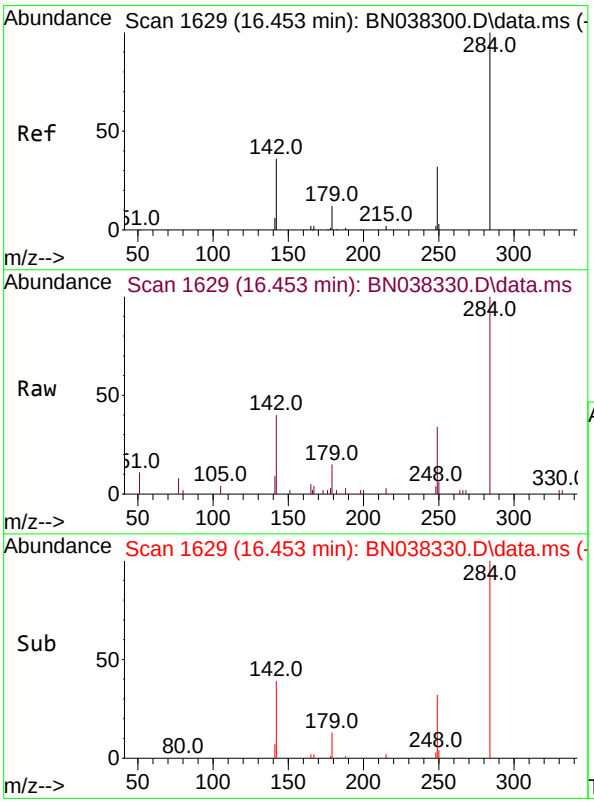
#21
4-Bromophenyl-phenylether
Concen: 0.381 ng
RT: 16.342 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 3914

Ion	Ratio	Lower	Upper
248	100		
250	96.0	78.2	117.2
141	56.7	43.7	65.5

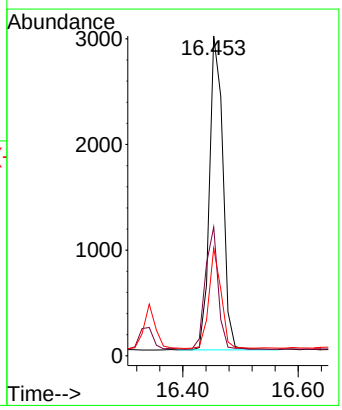


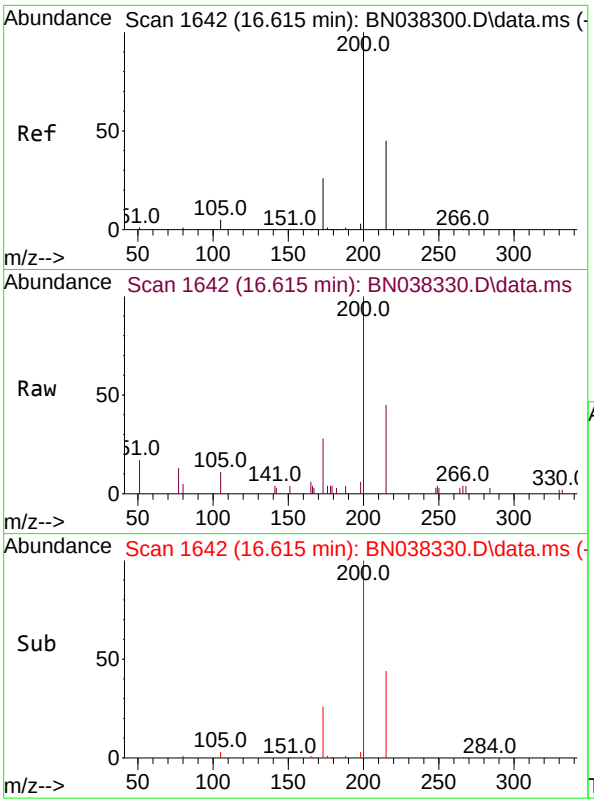


#22
Hexachlorobenzene
Concen: 0.388 ng
RT: 16.453 min Scan# 1629
Delta R.T. -0.012 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Tgt Ion:284 Resp: 4794

Ion	Ratio	Lower	Upper
284	100		
142	37.6	29.5	44.3
249	29.2	23.7	35.5



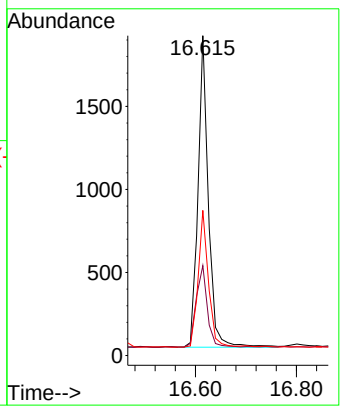


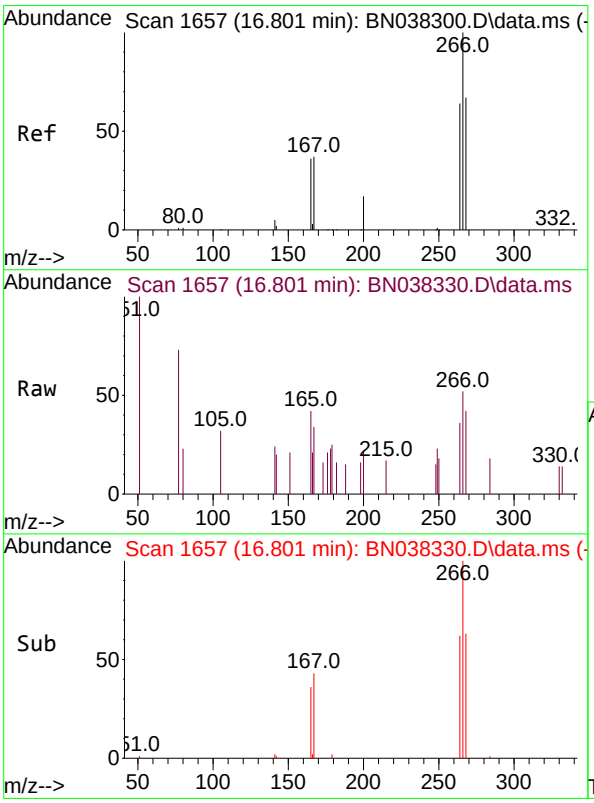
#23
Atrazine
Concen: 0.380 ng
RT: 16.615 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 2660

Ion	Ratio	Lower	Upper
200	100		
173	28.1	22.1	33.1
215	45.4	37.4	56.2

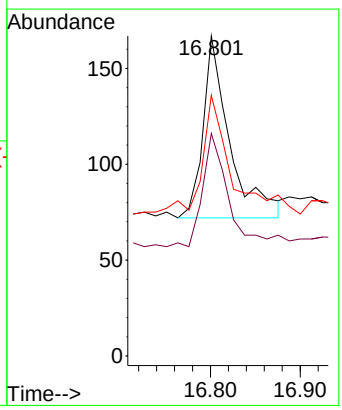


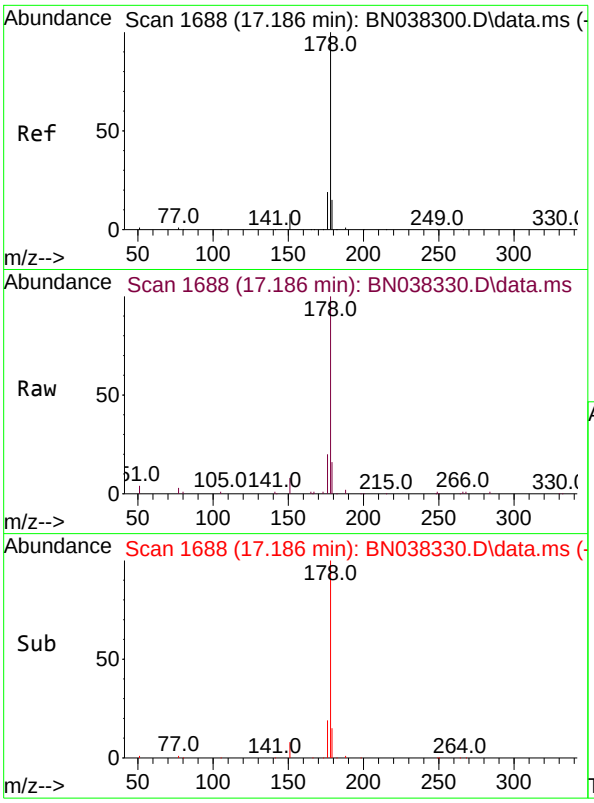


#24
Pentachlorophenol
Concen: 0.041 ng
RT: 16.801 min Scan# 1657
Delta R.T. -0.000 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Tgt Ion:266 Resp: 196

Ion	Ratio	Lower	Upper
266	100		
264	63.3	50.2	75.2
268	70.9	52.6	78.8



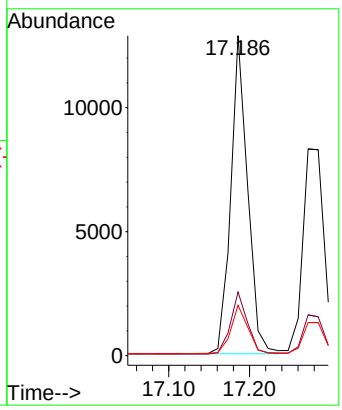


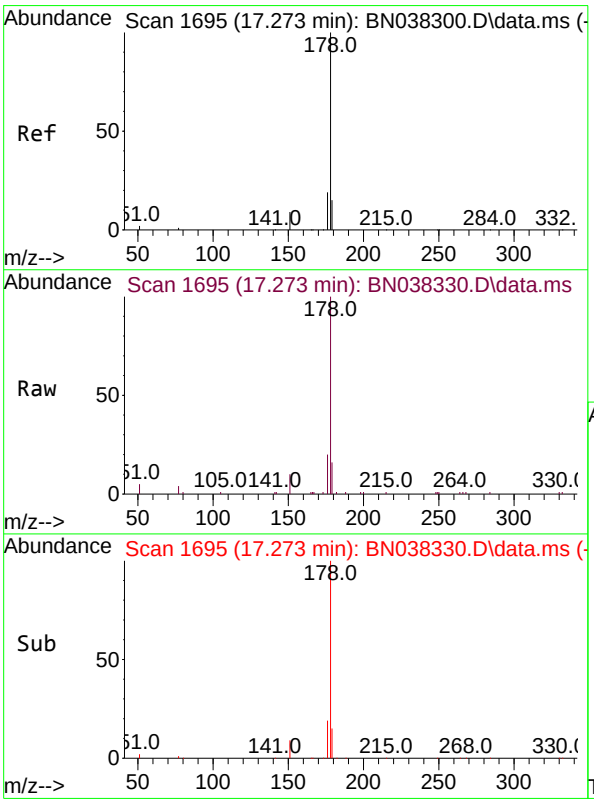
#25
Phenanthrene
Concen: 0.386 ng
RT: 17.186 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 18585

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.5	23.3
179	15.5	12.2	18.2

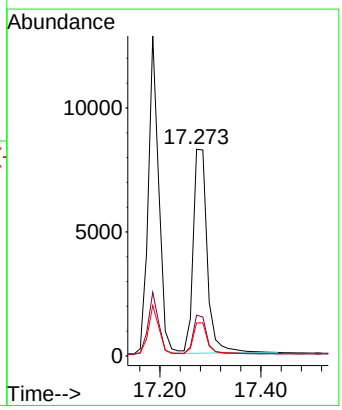


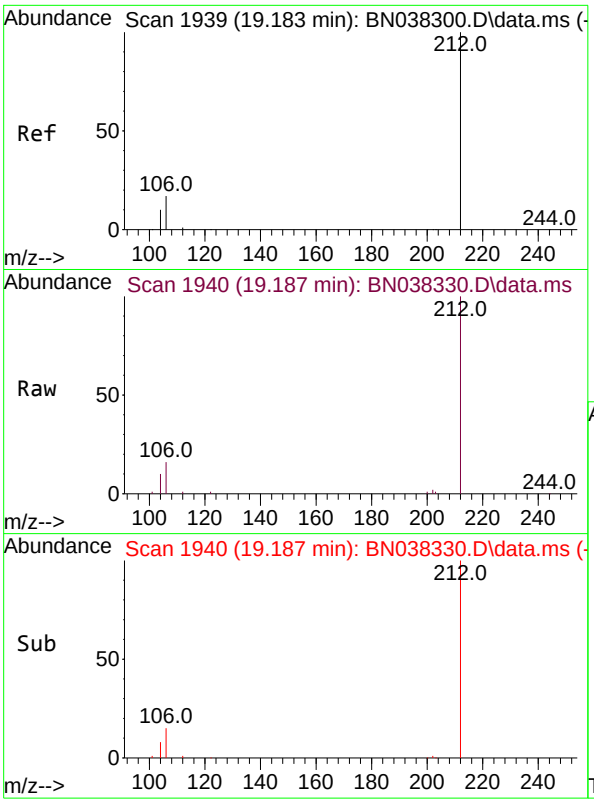


#26
Anthracene
Concen: 0.383 ng
RT: 17.273 min Scan# 1695
Delta R.T. -0.012 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Tgt Ion:178 Resp: 15922

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.1	22.7
179	15.0	12.0	18.0



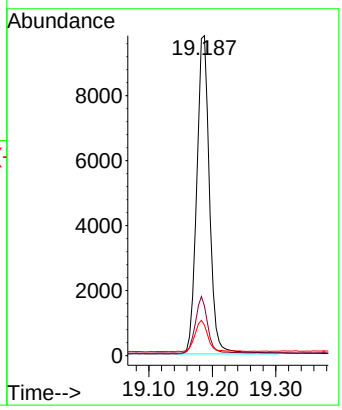


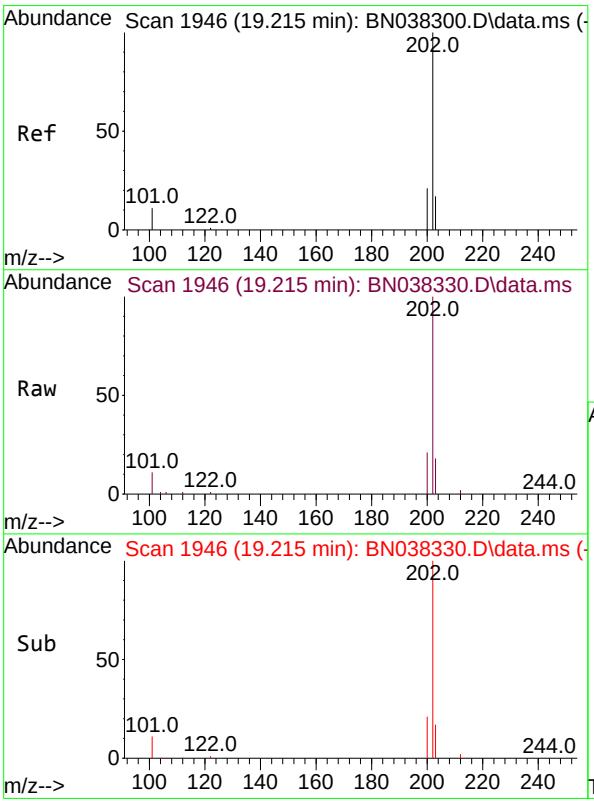
#27
Fluoranthene-d10
Concen: 0.399 ng
RT: 19.187 min Scan# 19
Delta R.T. -0.000 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 13666

Ion	Ratio	Lower	Upper
212	100		
106	17.0	13.7	20.5
104	10.0	7.8	11.8

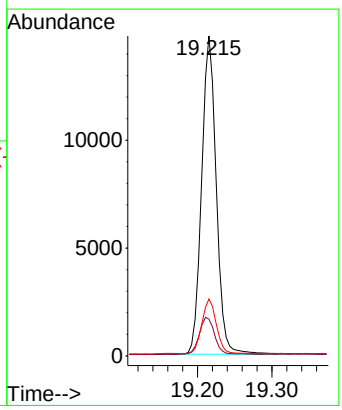


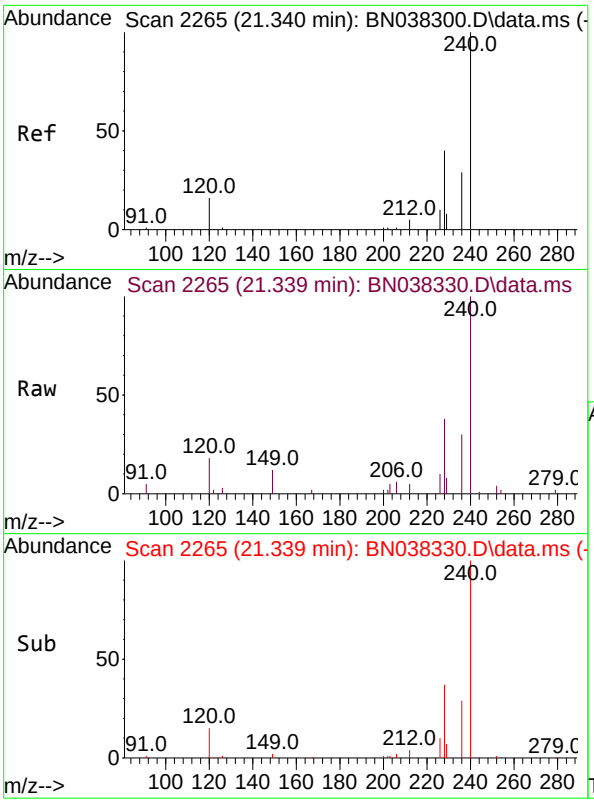


#28
Fluoranthene
Concen: 0.394 ng
RT: 19.215 min Scan# 1946
Delta R.T. -0.005 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Tgt Ion:202 Resp: 20173

Ion	Ratio	Lower	Upper
202	100		
101	12.1	9.6	14.4
203	17.1	13.5	20.3



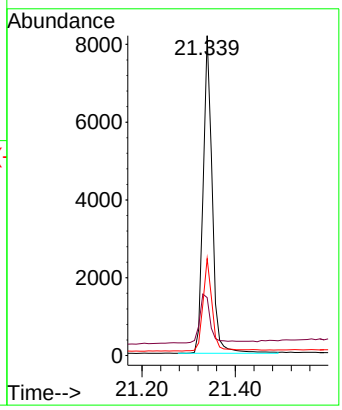


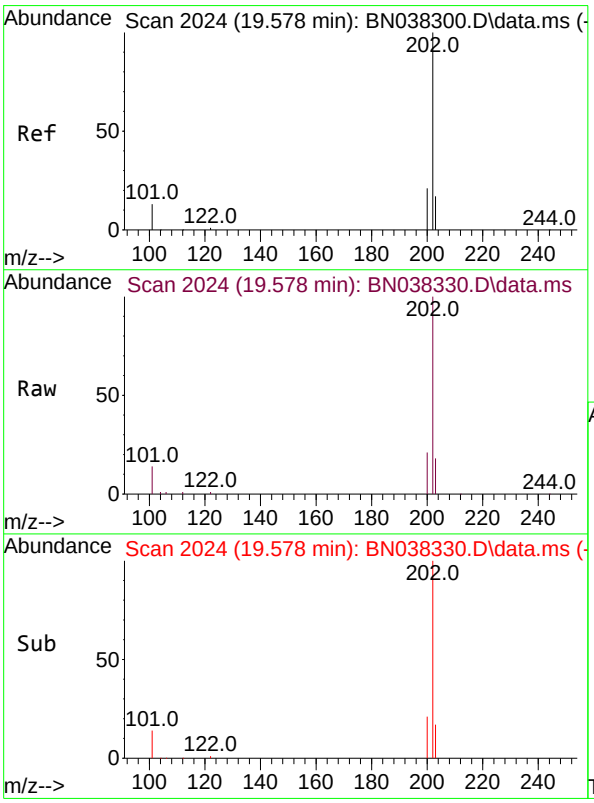
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.339 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 10979

Ion	Ratio	Lower	Upper
240	100		
120	18.1	15.4	23.2
236	30.3	23.9	35.9

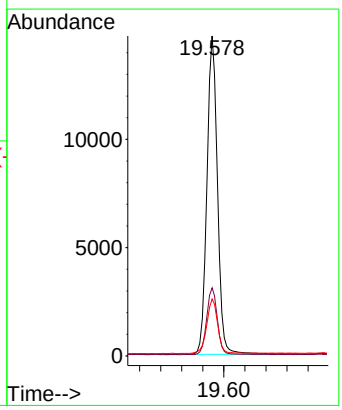


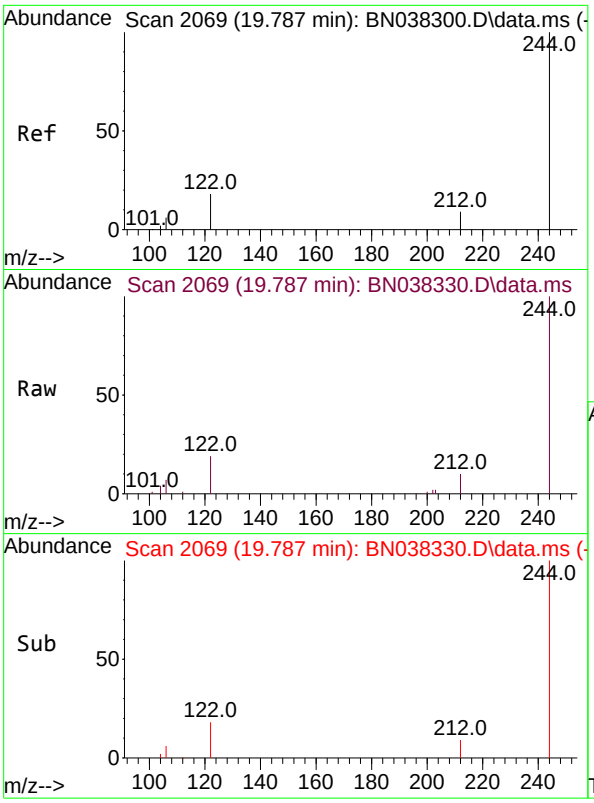


#30
Pyrene
Concen: 0.378 ng
RT: 19.578 min Scan# 2024
Delta R.T. -0.005 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Tgt Ion:202 Resp: 20437

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.7	14.2	21.2



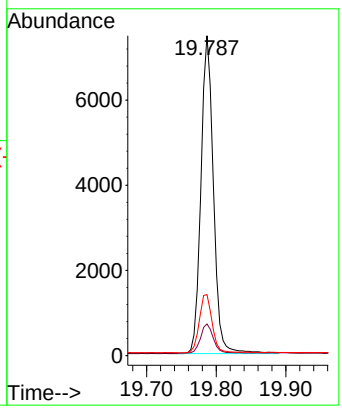


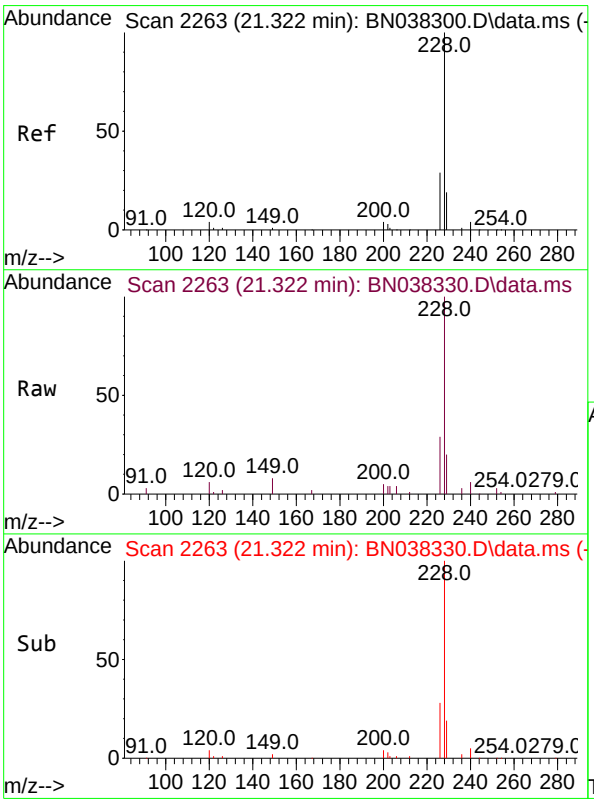
#31
Terphenyl-d14
Concen: 0.380 ng
RT: 19.787 min Scan# 20
Delta R.T. -0.005 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 9312

Ion	Ratio	Lower	Upper
244	100		
212	9.9	7.9	11.9
122	19.1	15.0	22.6

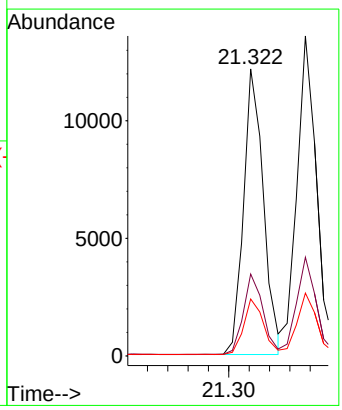


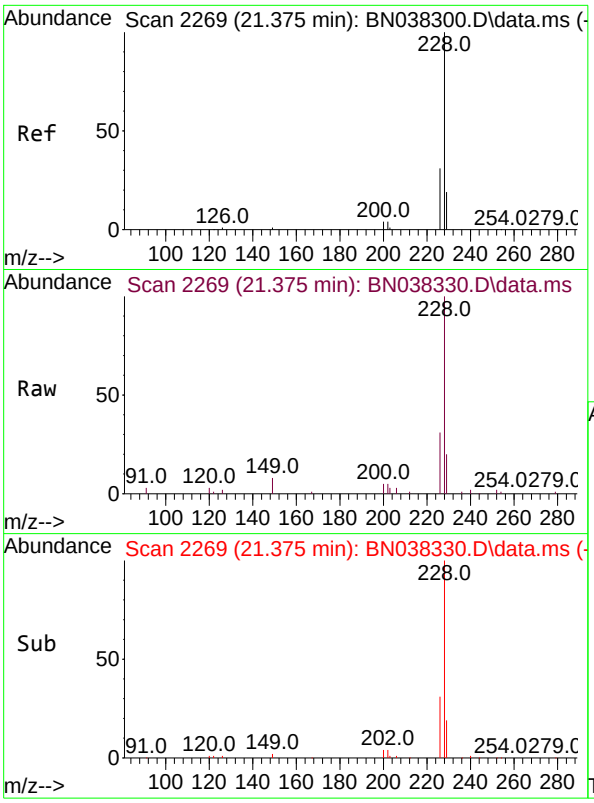


#32
Benzo(a)anthracene
Concen: 0.388 ng
RT: 21.322 min Scan# 2263
Delta R.T. -0.009 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Tgt Ion:228 Resp: 16446

Ion	Ratio	Lower	Upper
228	100		
226	28.5	23.3	34.9
229	19.8	15.7	23.5



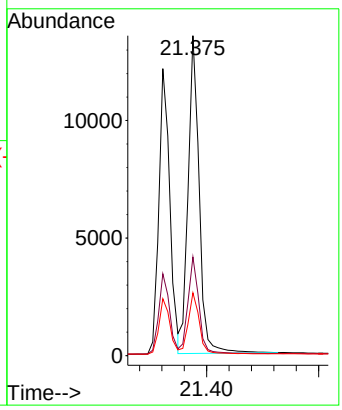


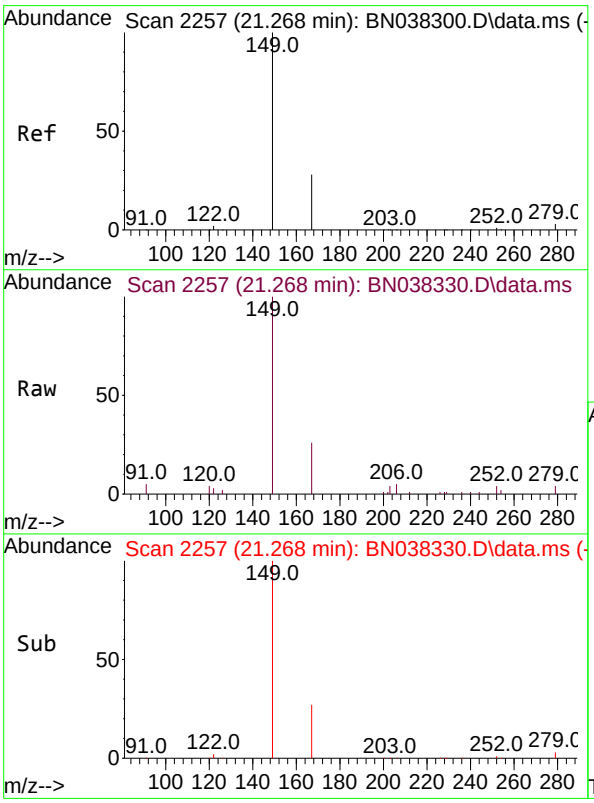
#33
Chrysene
Concen: 0.398 ng
RT: 21.375 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 18567

Ion	Ratio	Lower	Upper
228	100		
226	30.8	25.0	37.4
229	19.6	15.5	23.3

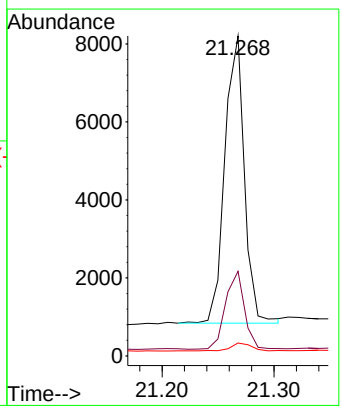


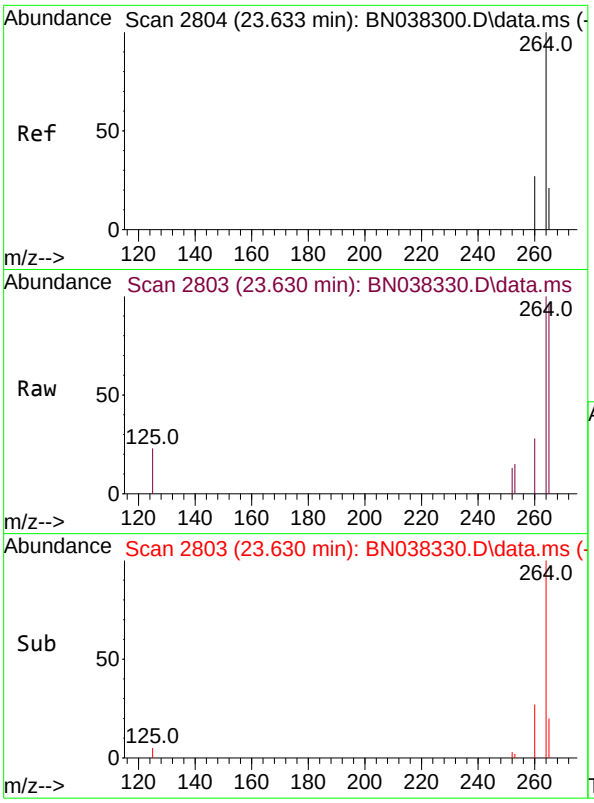


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.384 ng
RT: 21.268 min Scan# 2257
Delta R.T. -0.000 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Tgt Ion:149 Resp: 8928

Ion	Ratio	Lower	Upper
149	100		
167	26.4	21.4	32.0
279	2.9	2.4	3.6



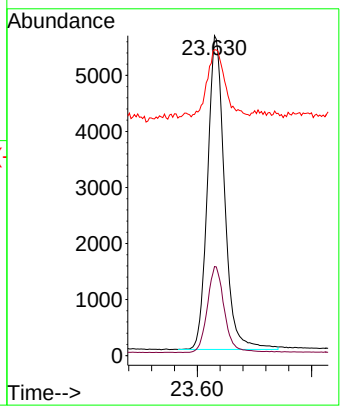


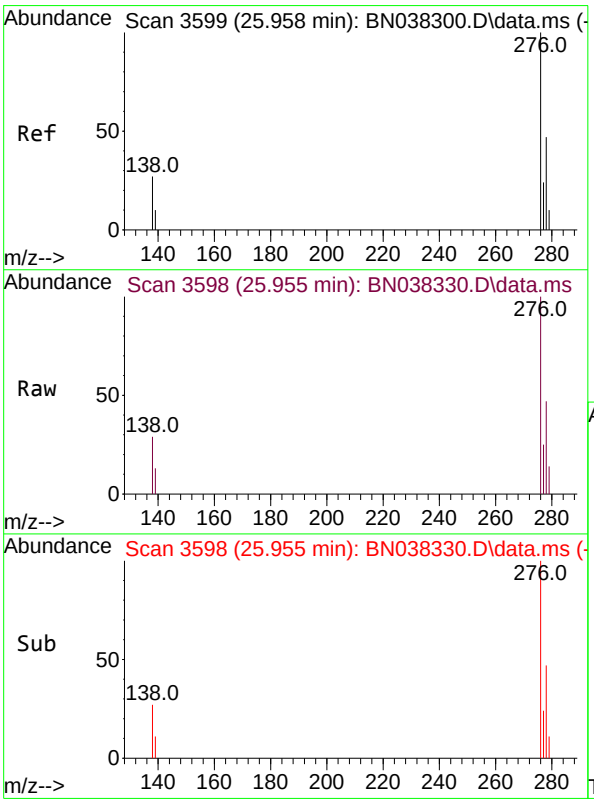
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.630 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 11587

Ion	Ratio	Lower	Upper
264	100		
260	27.8	22.2	33.2
265	95.6	80.2	120.2

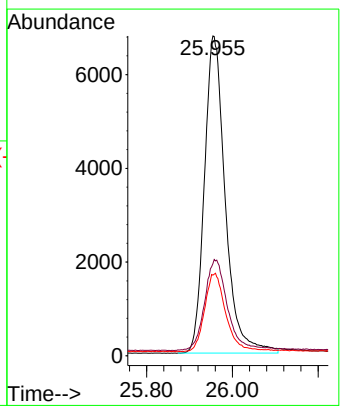


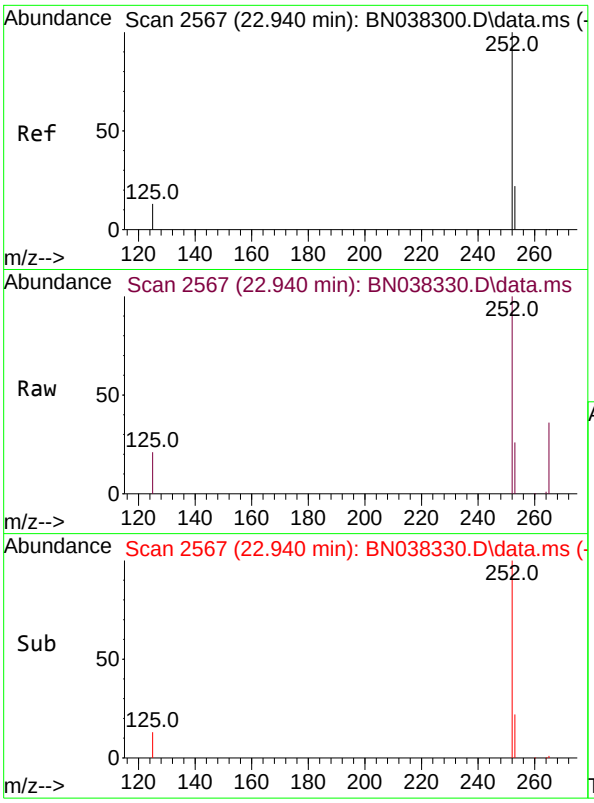


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.372 ng
RT: 25.955 min Scan# 3598
Delta R.T. -0.009 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Tgt Ion:276 Resp: 22867

Ion	Ratio	Lower	Upper
276	100		
138	31.4	23.6	35.4
277	25.1	19.7	29.5



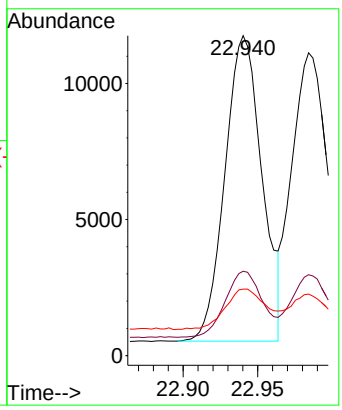


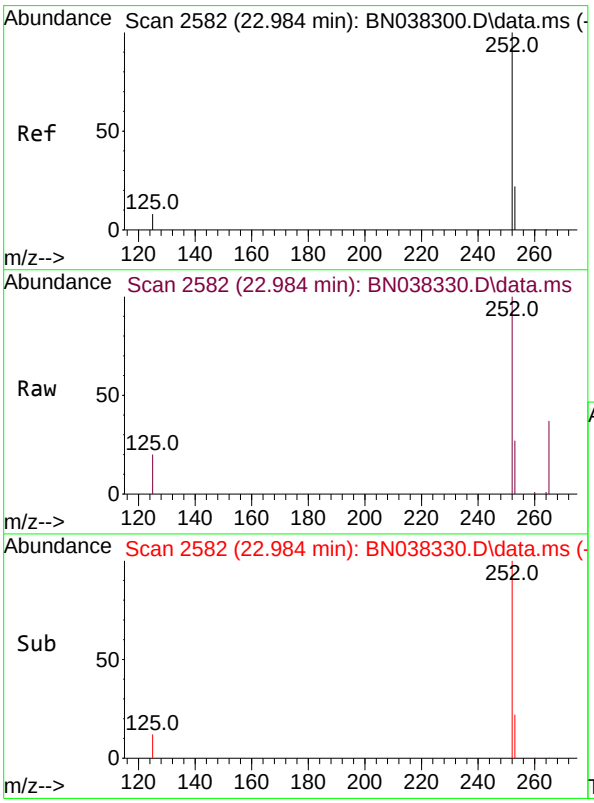
#37
Benzo(b)fluoranthene
Concen: 0.365 ng
RT: 22.940 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 19430

Ion	Ratio	Lower	Upper
252	100		
253	26.4	21.1	31.7
125	20.8	16.4	24.6

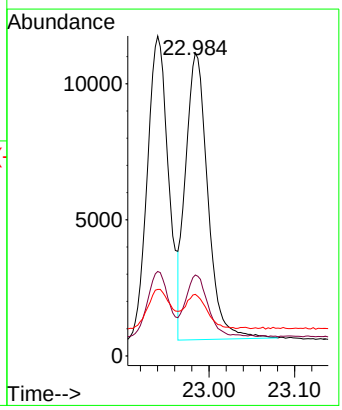


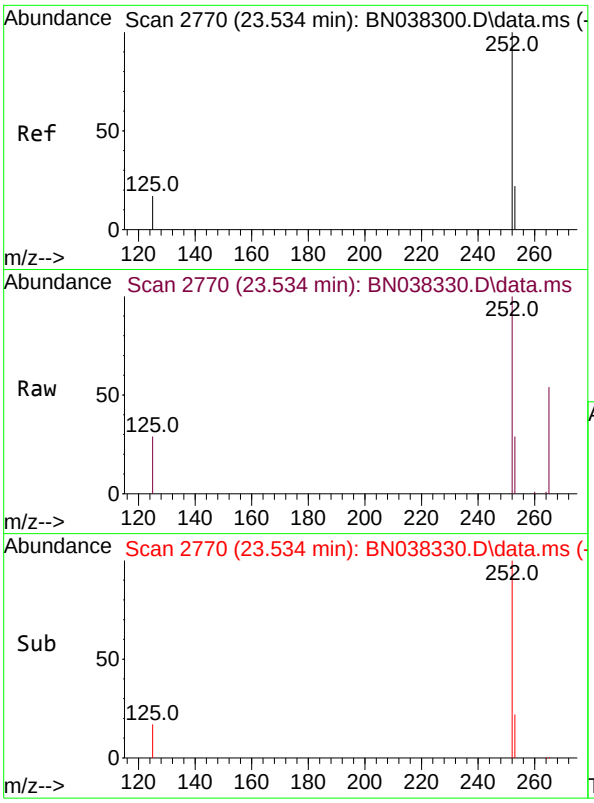


#38
Benzo(k)fluoranthene
Concen: 0.358 ng
RT: 22.984 min Scan# 2582
Delta R.T. -0.006 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Tgt Ion:252 Resp: 18984

Ion	Ratio	Lower	Upper
252	100		
253	26.7	21.4	32.0
125	20.3	16.2	24.2



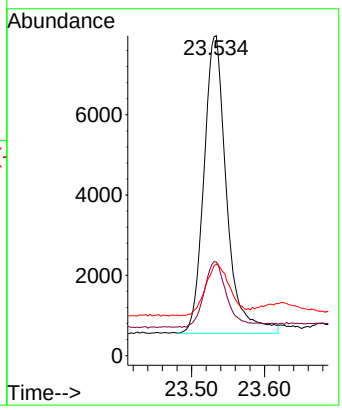


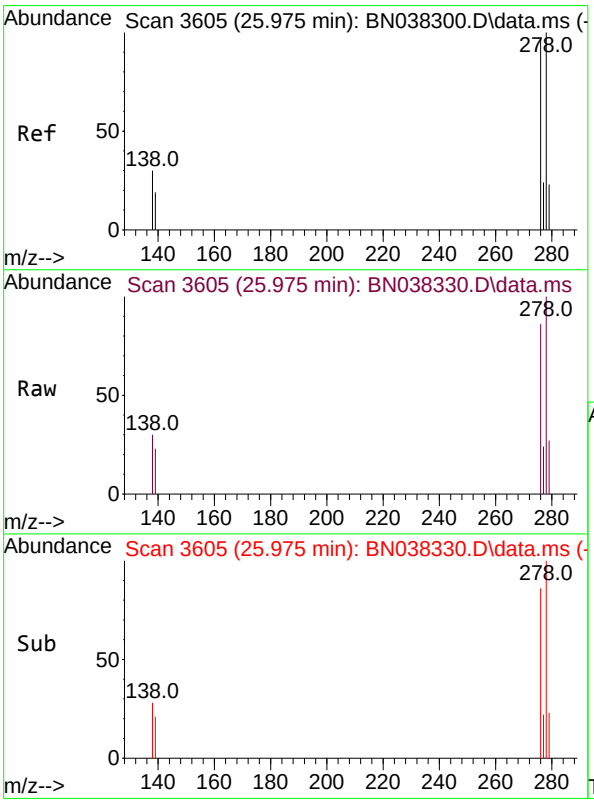
#39
Benzo(a)pyrene
Concen: 0.367 ng
RT: 23.534 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 15994

Ion	Ratio	Lower	Upper
252	100		
253	29.2	23.3	34.9
125	28.6	22.4	33.6

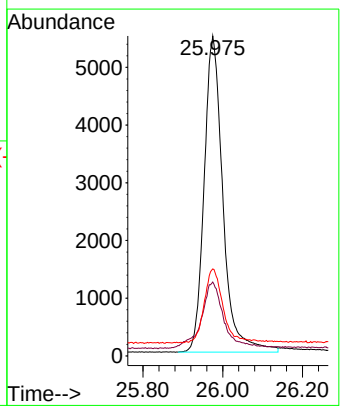


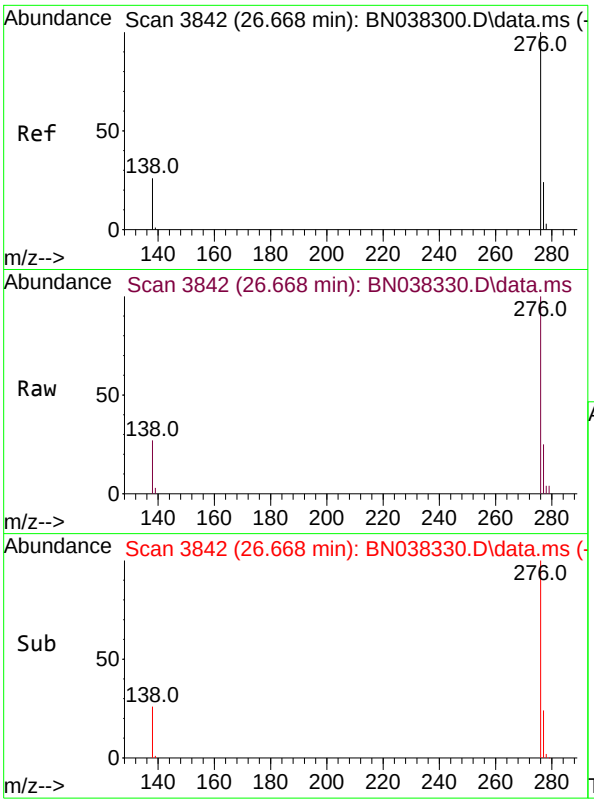


#40
Dibenzo(a,h)anthracene
Concen: 0.378 ng
RT: 25.975 min Scan# 3605
Delta R.T. -0.006 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Tgt Ion:278 Resp: 17925

Ion	Ratio	Lower	Upper
278	100		
139	23.1	17.8	26.8
279	27.2	21.3	31.9



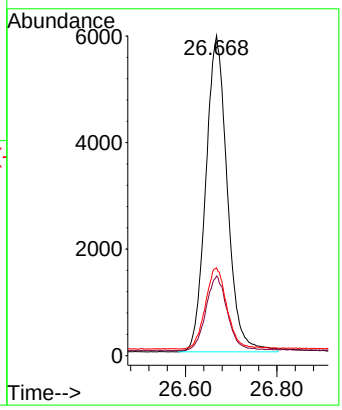


#41
Benzo(g,h,i)perylene
Concen: 0.366 ng
RT: 26.668 min Scan# 3
Delta R.T. -0.009 min
Lab File: BN038330.D
Acq: 11 Dec 2025 23:59

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 19418

Ion	Ratio	Lower	Upper
276	100		
277	24.9	20.0	30.0
138	27.4	21.8	32.6



Sample Results: **BN038330.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121125\
Data File : BN038330.D
Acq On : 11 Dec 2025 23:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 12 00:29:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration

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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	86	0.00
2		1,4-Dioxane	0.459	0.479	-4.4	88	0.00
3		n-Nitrosodimethylamine	0.575	0.553	3.8	83	0.00
4	S	2-Fluorophenol	0.996	0.984	1.2	85	0.00
5	S	Phenol-d6	1.184	1.177	0.6	88	0.00
6		bis(2-Chloroethyl)ether	1.158	1.162	-0.3	85	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	88	-0.01
8	S	Nitrobenzene-d5	0.337	0.326	3.3	87	0.00
9		Naphthalene	1.182	1.169	1.1	88	0.00
10		Hexachlorobutadiene	0.210	0.207	1.4	87	0.00
11	SURR	2-Methylnaphthalene-d10	0.564	0.557	1.2	89	0.00
12		2-Methylnaphthalene	0.751	0.743	1.1	89	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	92	-0.01
14	S	2,4,6-Tribromophenol	0.177	0.159	10.2	87	0.00
15	S	2-Fluorobiphenyl	1.927	1.919	0.4	89	0.00
16		Acenaphthylene	1.964	1.893	3.6	91	0.00
17		Acenaphthene	1.369	1.285	6.1	88	-0.01
18		Fluorene	1.761	1.701	3.4	91	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	93	0.00
20		4,6-Dinitro-2-methylphenol	0.066	0.010	84.8#	16#	0.01
21		4-Bromophenyl-phenylether	0.297	0.283	4.7	92	0.00
22		Hexachlorobenzene	0.357	0.346	3.1	92	-0.01
23		Atrazine	0.202	0.192	5.0	94	0.00
24		Pentachlorophenol	0.139	0.014	89.9#	11#	0.00
25		Phenanthrene	1.392	1.343	3.5	92	0.00
26		Anthracene	1.200	1.151	4.1	94	-0.01
27	SURR	Fluoranthene-d10	0.989	0.988	0.1	94	0.00
28		Fluoranthene	1.480	1.458	1.5	93	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	95	0.00
30		Pyrene	1.969	1.861	5.5	92	0.00
31	S	Terphenyl-d14	0.893	0.848	5.0	92	0.00
32		Benzo(a)anthracene	1.545	1.498	3.0	97	0.00
33		Chrysene	1.701	1.691	0.6	94	0.00
34		Bis(2-ethylhexyl)phthalate	0.848	0.813	4.1	92	0.00
35	I	Perylene-d12	1.000	1.000	0.0	101	0.00
36		Indeno(1,2,3-cd)pyrene	2.123	1.974	7.0	94	0.00
37		Benzo(b)fluoranthene	1.837	1.677	8.7	95	0.00
38		Benzo(k)fluoranthene	1.832	1.638	10.6	92	0.00
39	C	Benzo(a)pyrene	1.503	1.380	8.2	95	0.00
40		Dibenzo(a,h)anthracene	1.637	1.547	5.5	96	0.00
41		Benzo(g,h,i)perylene	1.829	1.676	8.4	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Sample Results: **BN038330.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121125\
Data File : BN038330.D
Acq On : 11 Dec 2025 23:59
Operator : RC/JU
Sample : SSTDCCC0.4
Misc :
ALS Vial : 20 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Dec 12 00:29:21 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN121025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Dec 10 13:56:50 2025
Response via : Initial Calibration

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

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	86	0.00
2		1,4-Dioxane	0.400	0.418	-4.5	88	0.00
3		n-Nitrosodimethylamine	0.400	0.385	3.8	83	0.00
4	S	2-Fluorophenol	0.400	0.395	1.3	85	0.00
5	S	Phenol-d6	0.400	0.398	0.5	88	0.00
6		bis(2-Chloroethyl)ether	0.400	0.401	-0.3	85	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	88	-0.01
8	S	Nitrobenzene-d5	0.400	0.387	3.3	87	0.00
9		Naphthalene	0.400	0.395	1.3	88	0.00
10		Hexachlorobutadiene	0.400	0.394	1.5	87	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.395	1.3	89	0.00
12		2-Methylnaphthalene	0.400	0.396	1.0	89	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	92	-0.01
14	S	2,4,6-Tribromophenol	0.400	0.358	10.5	87	0.00
15	S	2-Fluorobiphenyl	0.400	0.398	0.5	89	0.00
16		Acenaphthylene	0.400	0.386	3.5	91	0.00
17		Acenaphthene	0.400	0.376	6.0	88	-0.01
18		Fluorene	0.400	0.386	3.5	91	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	93	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.058	85.5#	16	0.01
21		4-Bromophenyl-phenylether	0.400	0.381	4.8	92	0.00
22		Hexachlorobenzene	0.400	0.388	3.0	92	-0.01
23		Atrazine	0.400	0.380	5.0	94	0.00
24		Pentachlorophenol	0.400	0.041	89.8#	11	0.00
25		Phenanthrene	0.400	0.386	3.5	92	0.00
26		Anthracene	0.400	0.383	4.3	94	-0.01
27	SURR	Fluoranthene-d10	0.400	0.399	0.3	94	0.00
28		Fluoranthene	0.400	0.394	1.5	93	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	95	0.00
30		Pyrene	0.400	0.378	5.5	92	0.00
31	S	Terphenyl-d14	0.400	0.380	5.0	92	0.00
32		Benzo(a)anthracene	0.400	0.388	3.0	97	0.00
33		Chrysene	0.400	0.398	0.5	94	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.384	4.0	92	0.00
35	I	Perylene-d12	0.400	0.400	0.0	101	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.372	7.0	94	0.00
37		Benzo(b)fluoranthene	0.400	0.365	8.8	95	0.00
38		Benzo(k)fluoranthene	0.400	0.358	10.5	92	0.00
39	C	Benzo(a)pyrene	0.400	0.367	8.3	95	0.00
40		Dibenzo(a,h)anthracene	0.400	0.378	5.5	96	0.00
41		Benzo(g,h,i)perylene	0.400	0.366	8.5	93	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

QC SAMPLE DATA

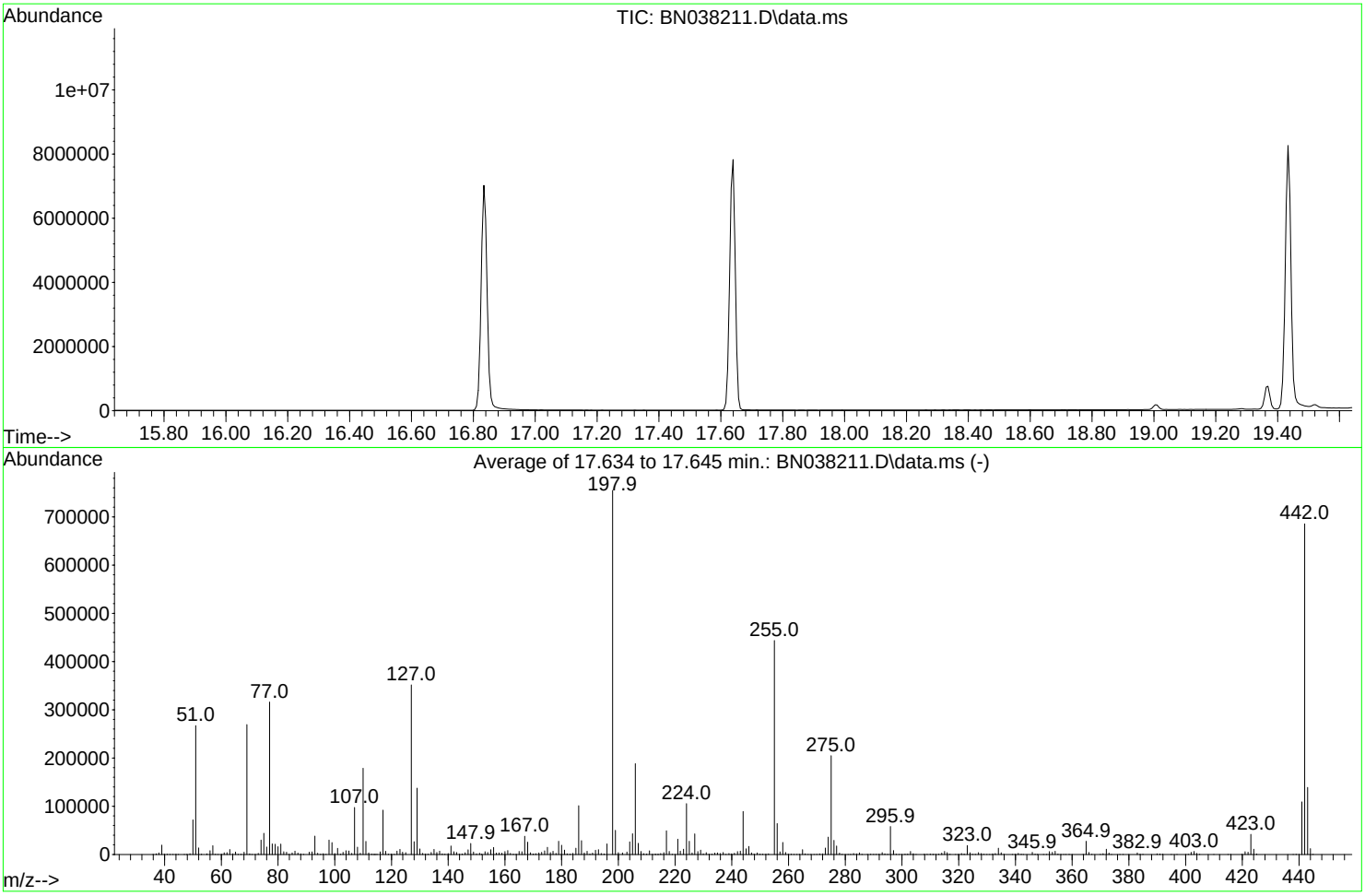
Sample Results: **BN038211.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038211.D
Acq On : 26 Nov 2025 19:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Nov 28 21:04:10 2025



AutoFind: Scans 2473, 2474, 2475; Background Corrected with Scan 2465

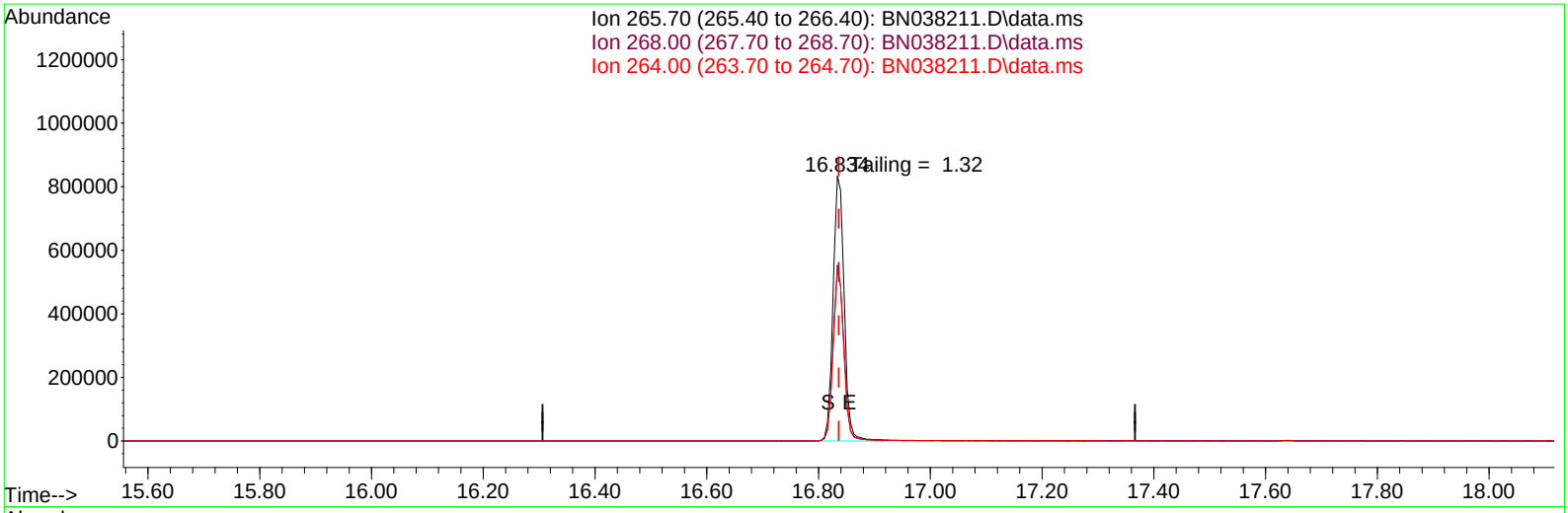
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.8	4865	PASS
69	69	100	100	100.0	269184	PASS
70	69	0.00	2	0.5	1321	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	754667	PASS
199	198	5	9	6.6	49939	PASS
365	198	1	100	3.6	27373	PASS
441	443	0.01	150	78.5	109085	PASS
442	442	100	100	100.0	685653	PASS
443	442	15	24	20.3	139035	PASS

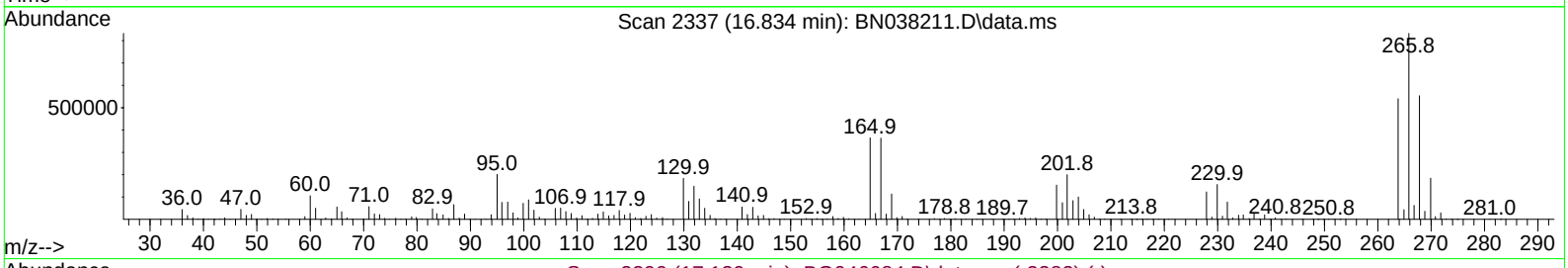
Sample Results: **BN038211.D**

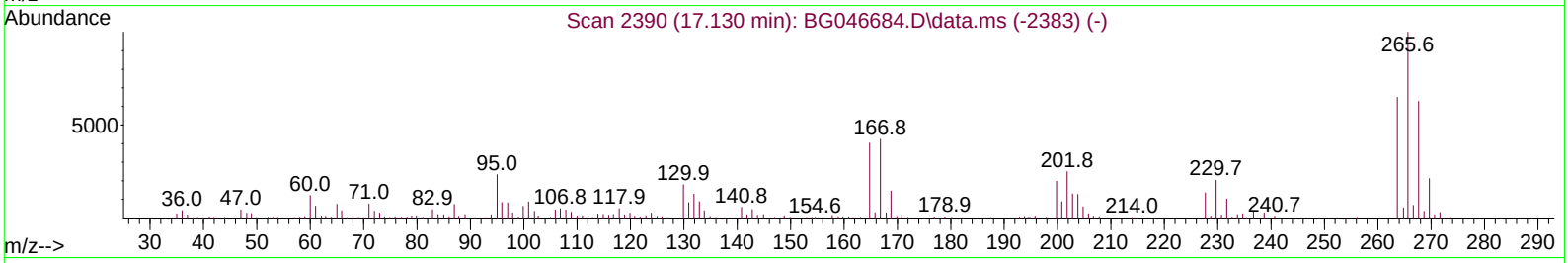
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038211.D
Acq On : 26 Nov 2025 19:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 01 17:45:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 01 10:15:10 2025
Response via : Initial Calibration







TIC: BN038211.D\data.ms

(70) Pentachlorophenol (C)

16.834min (-0.002) 31780.36 ng

response 1154991

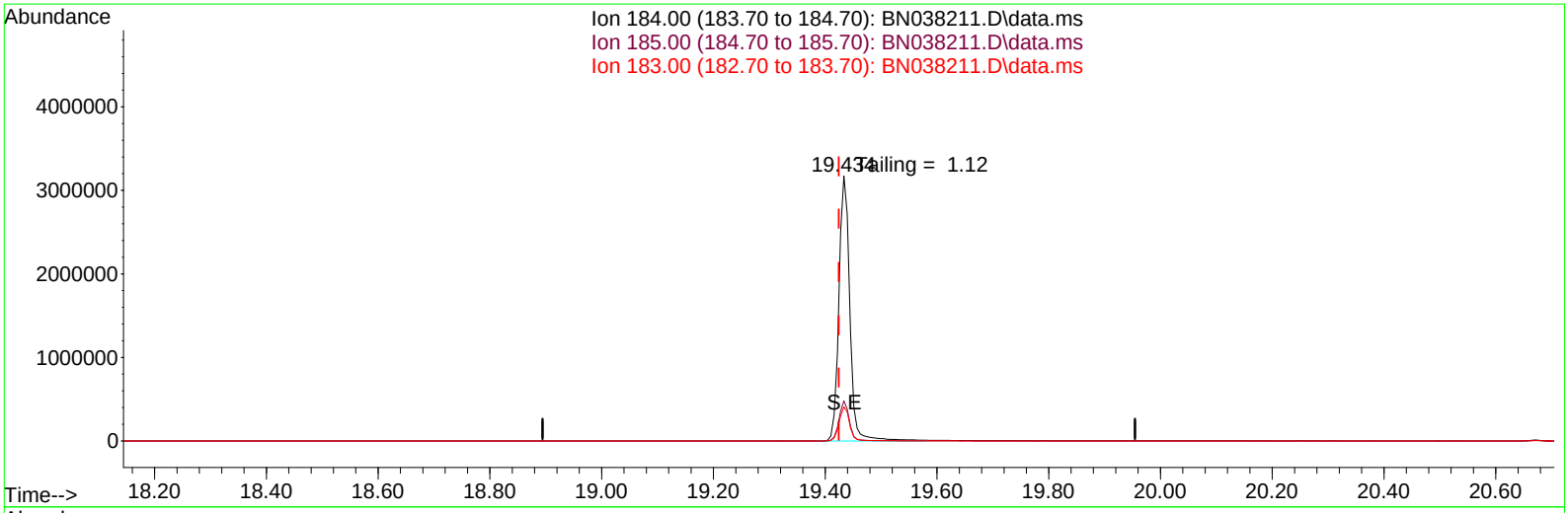
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	66.41
264.00	61.60	64.81
0.00	0.00	0.00

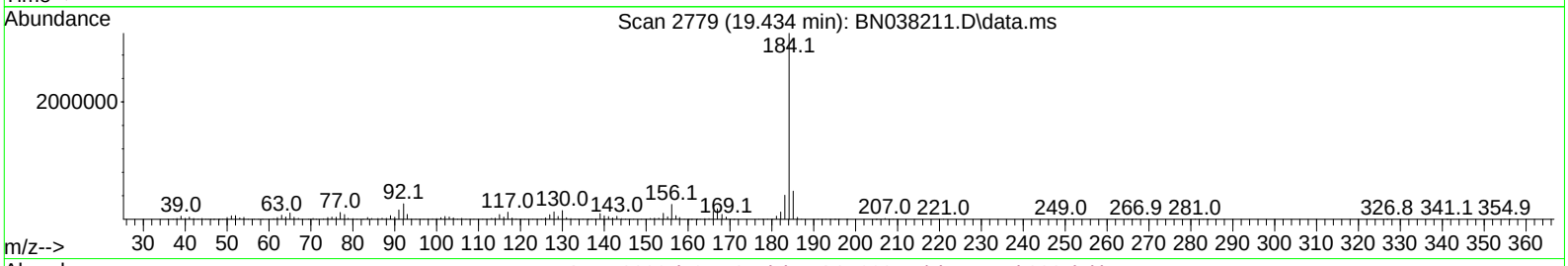
Sample Results: **BN038211.D**

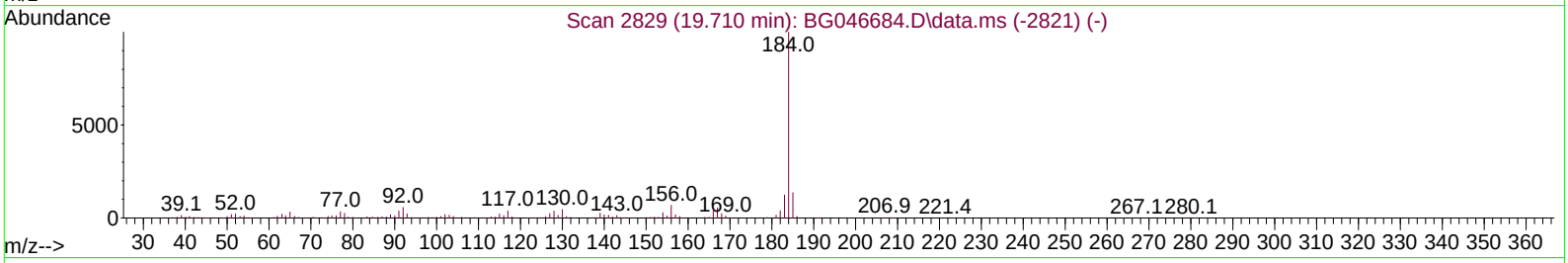
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN112725\
Data File : BN038211.D
Acq On : 26 Nov 2025 19:55
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 01 17:45:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Dec 01 10:15:10 2025
Response via : Initial Calibration







TIC: BN038211.D\data.ms

(77) Benzidine

19.434min (+ 0.009) 0.00 ng

response 4344162

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	15.12
183.00	13.20	12.88
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
11/27/2025	BNA_N	BN038211.D
Compound Name	**Response**	**Retention Time**
DDT	2721200	20.675
DDD	25337	20.233
DDE	5413	19.728
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
30750	2751950	1.12

Instrument :
BNA_N
ClientSampleId :
DFTPP

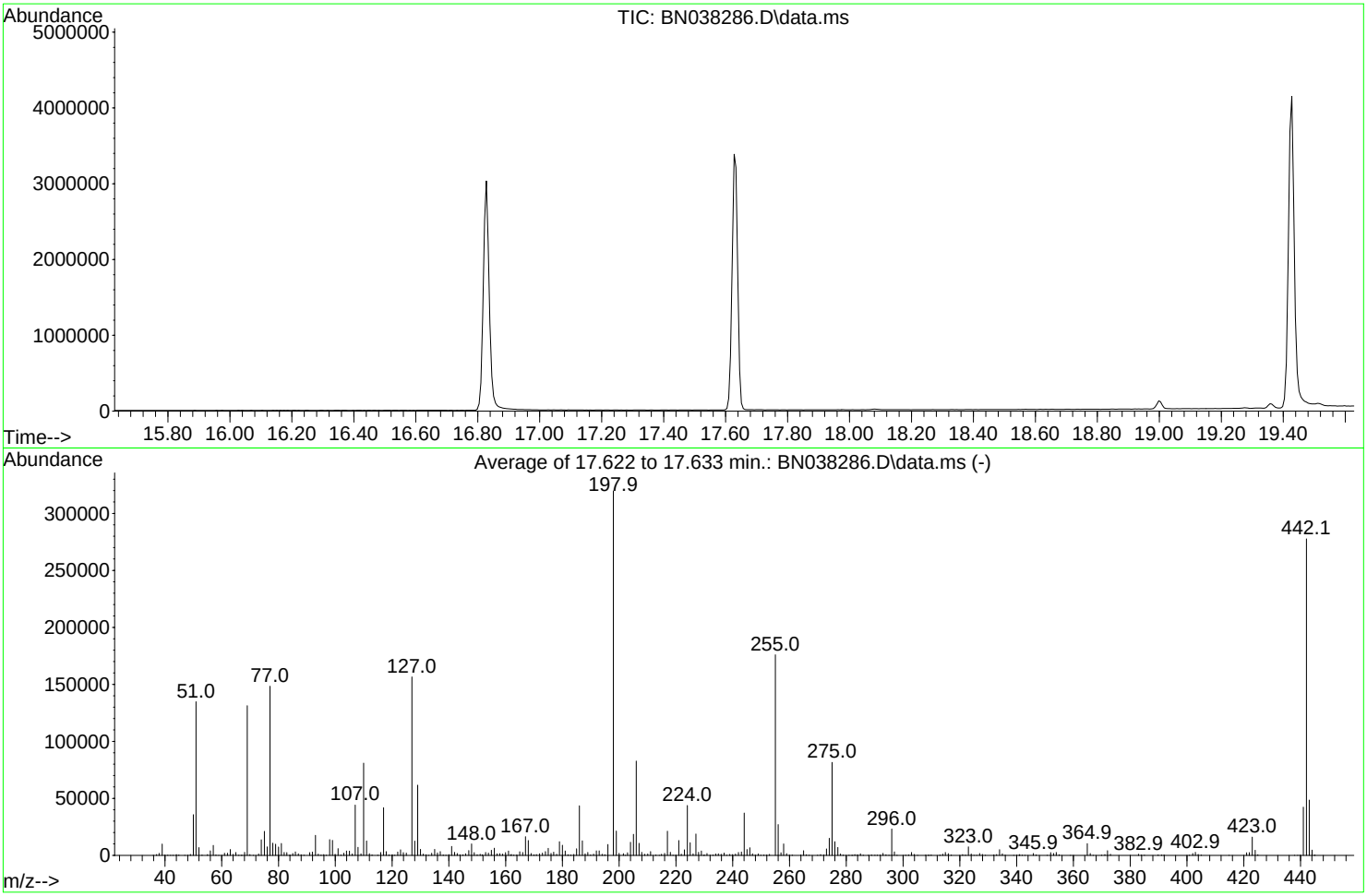
Sample Results: **BN038286.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
Data File : BN038286.D
Acq On : 05 Dec 2025 22:23
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-BN112725.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Nov 28 21:04:10 2025



AutoFind: Scans 2471, 2472, 2473; Background Corrected with Scan 2464

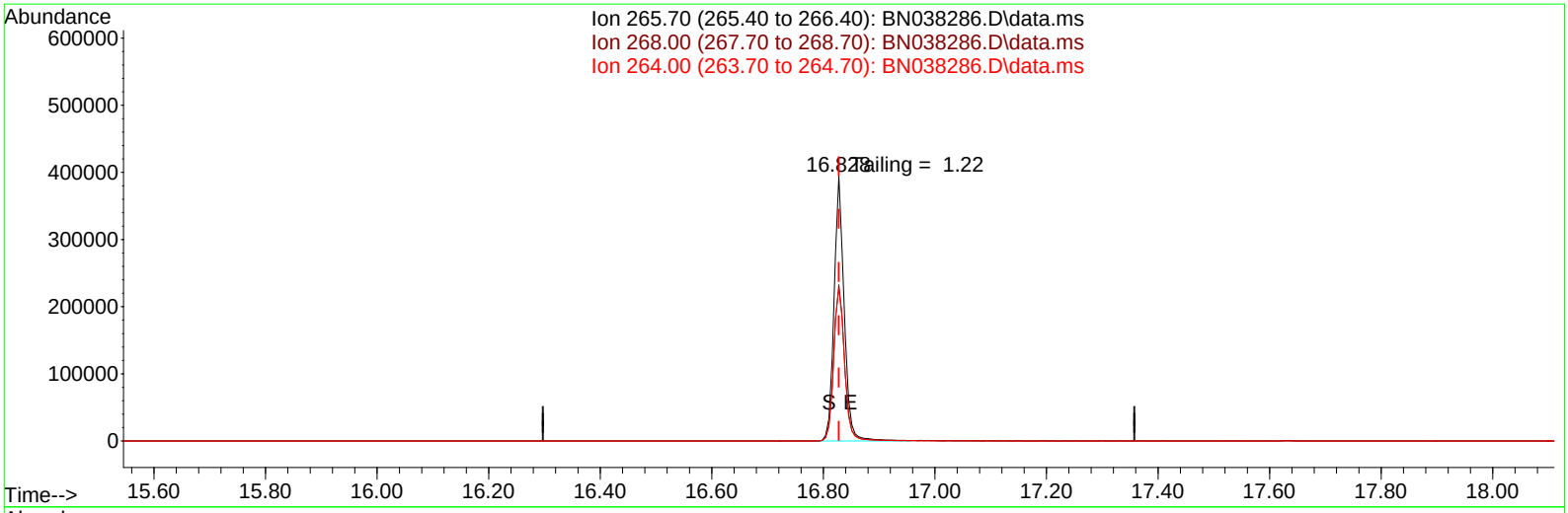
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	2.0	2623	PASS
69	69	100	100	100.0	131344	PASS
70	69	0.00	2	0.5	663	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	319659	PASS
199	198	5	9	6.7	21277	PASS
365	198	1	100	3.2	10356	PASS
441	443	0.01	150	87.1	42301	PASS
442	442	100	100	100.0	277739	PASS
443	442	15	24	17.5	48576	PASS

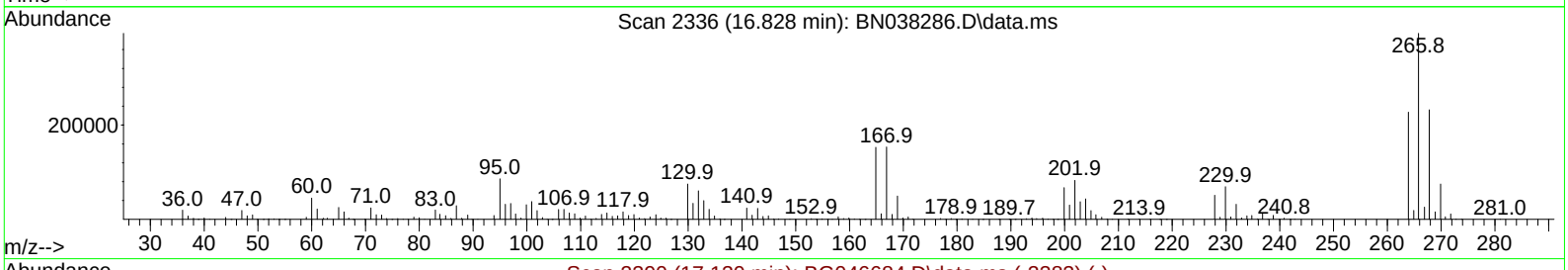
Sample Results: **BN038286.D**

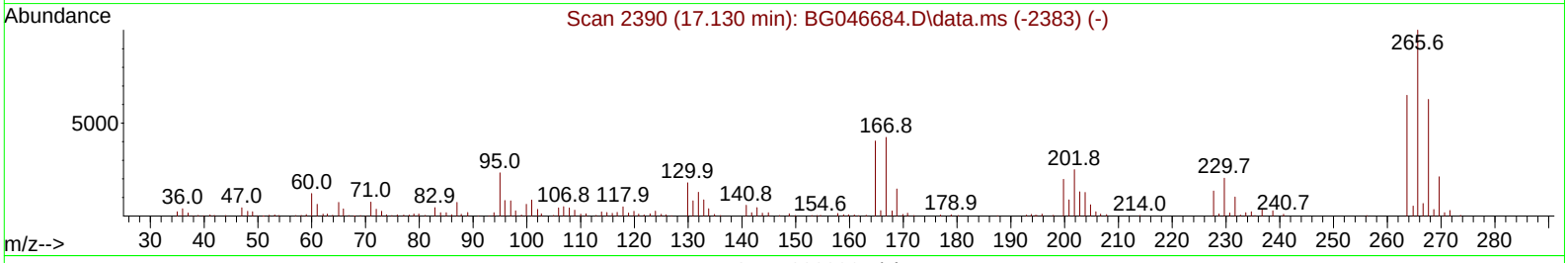
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
Data File : BN038286.D
Acq On : 05 Dec 2025 22:23
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 05 23:53:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 05 23:53:11 2025
Response via : Initial Calibration







TIC: BN038286.D\data.ms

(70) Pentachlorophenol (C)

16.828min (0.000) 33987.82 ng

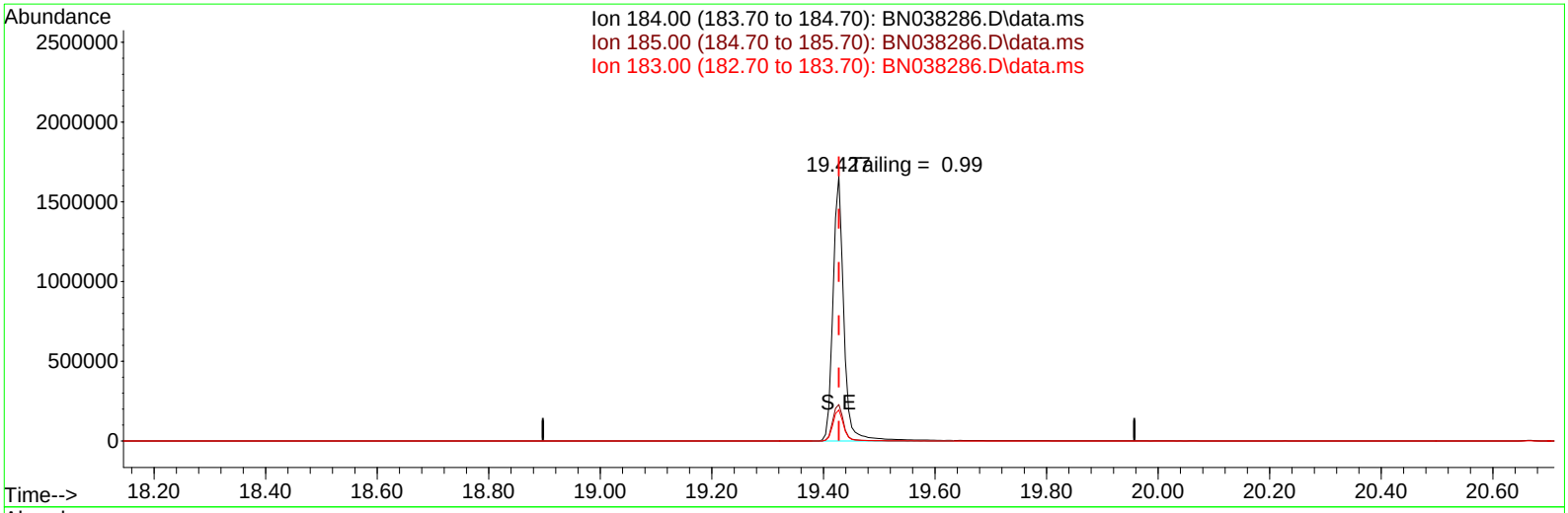
response 499848

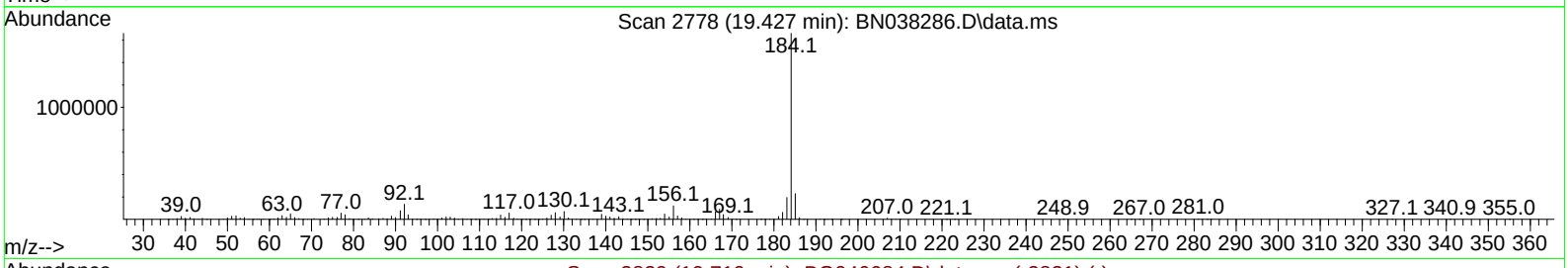
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	58.95
264.00	61.60	57.64
0.00	0.00	0.00

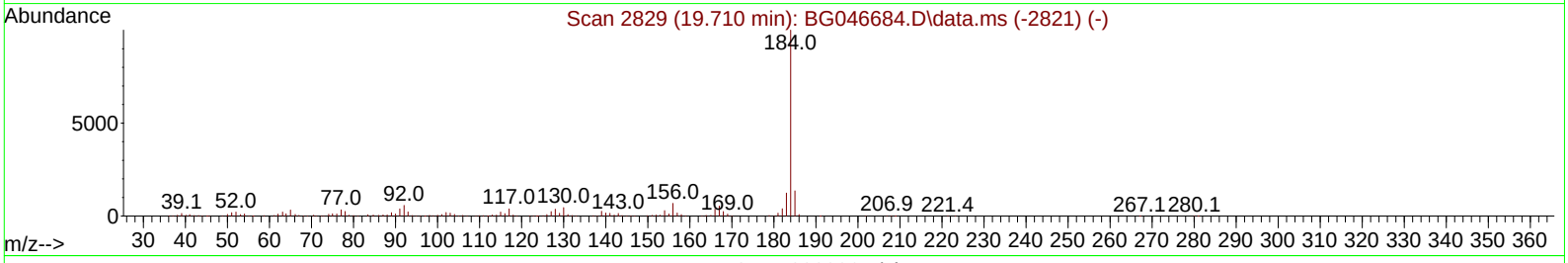
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
Data File : BN038286.D
Acq On : 05 Dec 2025 22:23
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 05 23:53:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 05 23:53:11 2025
Response via : Initial Calibration







TIC: BN038286.D\data.ms

(77) Benzidine

19.427min (0.000) 0.00 ng

response 2256964

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.77
183.00	13.20	11.79
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
12/6/2025	BNA_N	BN038286.D
Compound Name	**Response**	**Retention Time**
DDT	1037331	20.663
DDD	97794	20.222
DDE	3160	19.716
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
100954	1138285	8.87

Instrument :
BNA_N
ClientSampleId :
DFTPP

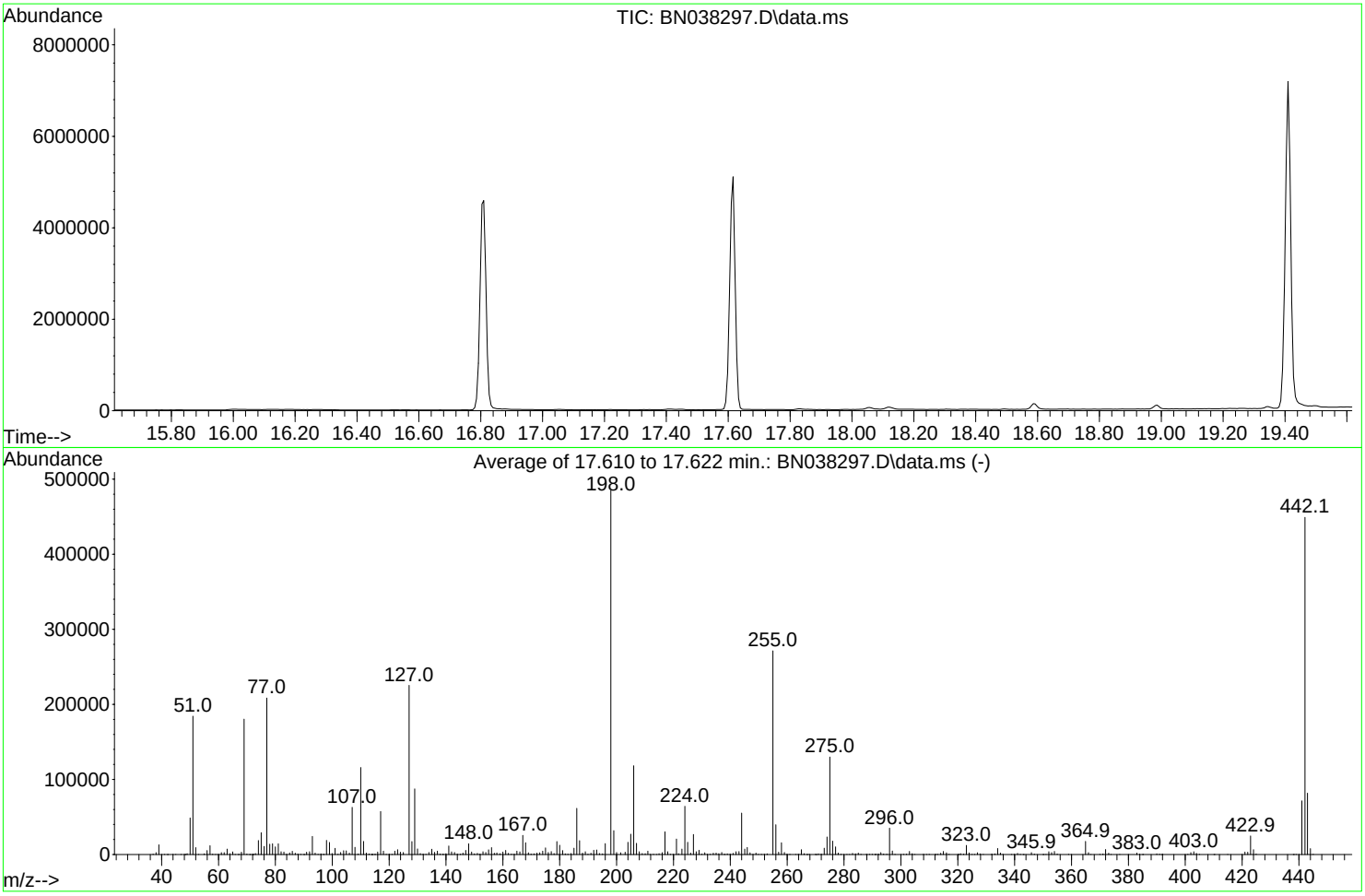
Sample Results: **BN038297.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121025\
Data File : BN038297.D
Acq On : 10 Dec 2025 09:12
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-BN121025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Dec 10 13:56:50 2025



AutoFind: Scans 2469, 2470, 2471; Background Corrected with Scan 2461

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.7	3142	PASS
69	69	100	100	100.0	180342	PASS
70	69	0.00	2	0.5	866	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	484821	PASS
199	198	5	9	6.6	31797	PASS
365	198	1	100	3.6	17415	PASS
441	443	0.01	150	87.6	71624	PASS
442	442	100	100	100.0	449131	PASS
443	442	15	24	18.2	81797	PASS

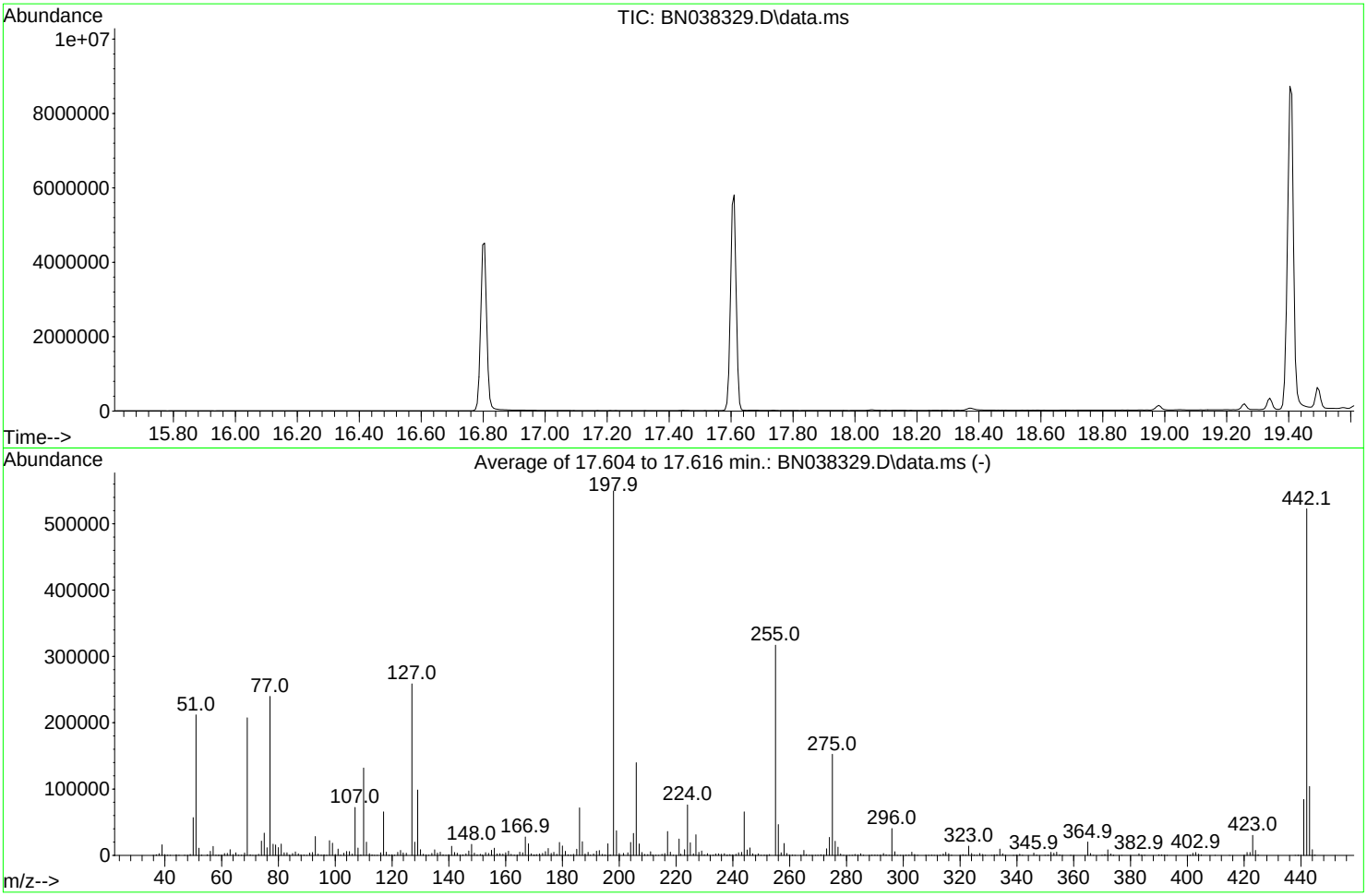
Sample Results: **BN038329.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121125\
Data File : BN038329.D
Acq On : 11 Dec 2025 23:20
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-BN121025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Dec 10 13:56:50 2025



AutoFind: Scans 2468, 2469, 2470; Background Corrected with Scan 2460

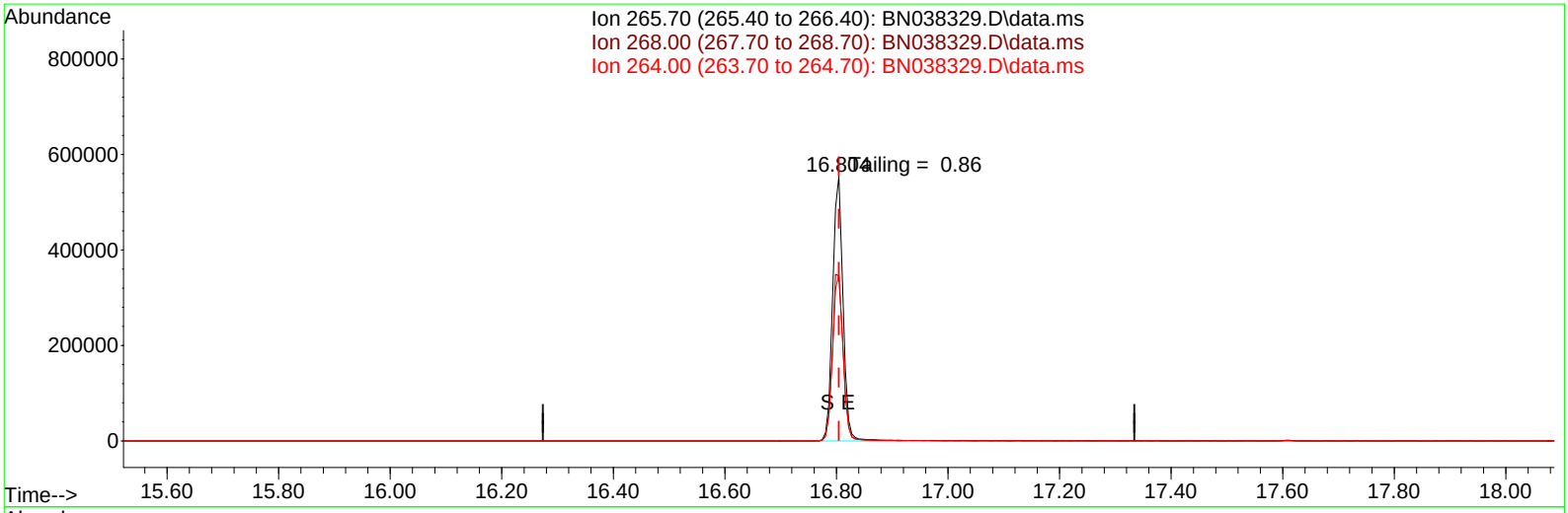
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.8	3777	PASS
69	69	100	100	100.0	207536	PASS
70	69	0.00	2	0.5	1066	PASS
197	198	0.00	2	0.1	776	PASS
198	198	100	100	100.0	549547	PASS
199	198	5	9	6.8	37157	PASS
365	198	1	100	3.7	20075	PASS
441	443	0.01	150	81.1	84259	PASS
442	442	100	100	100.0	522795	PASS
443	442	15	24	19.9	103896	PASS

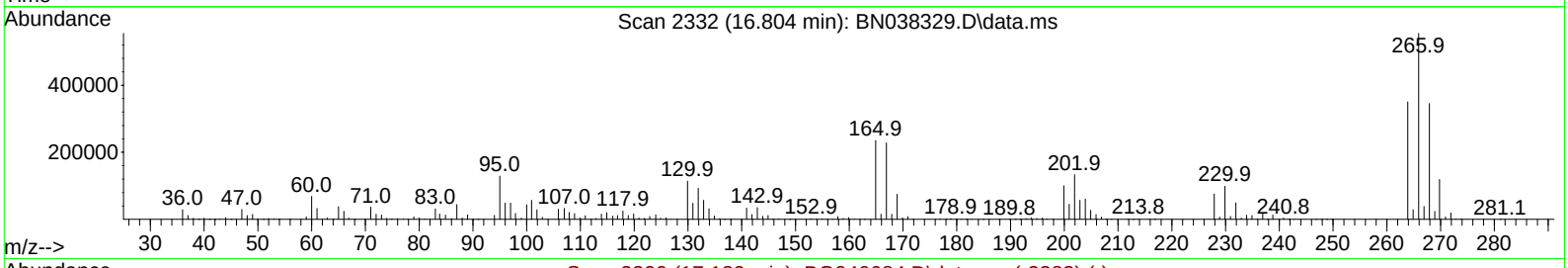
Sample Results: **BN038329.D**

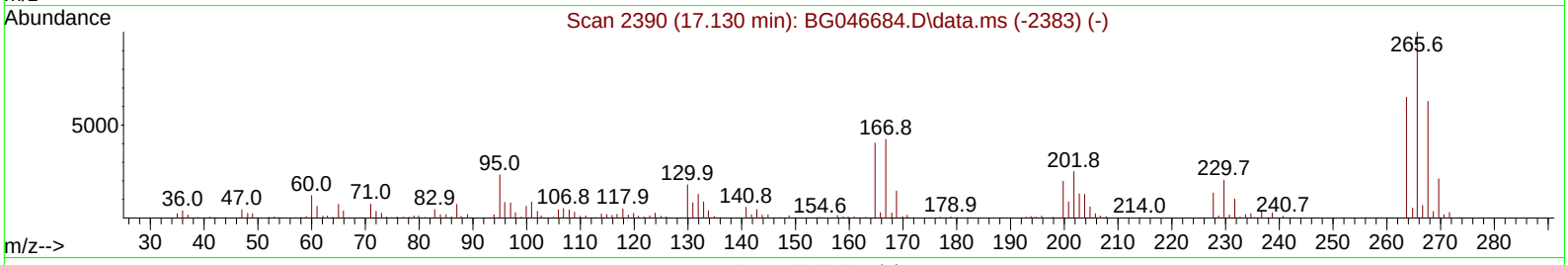
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121125\
Data File : BN038329.D
Acq On : 11 Dec 2025 23:20
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 12 03:10:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 12 03:10:04 2025
Response via : Initial Calibration







TIC: BN038329.D\data.ms

(70) Pentachlorophenol (C)

16.804min (0.000) 217492.83 ng

response 718575

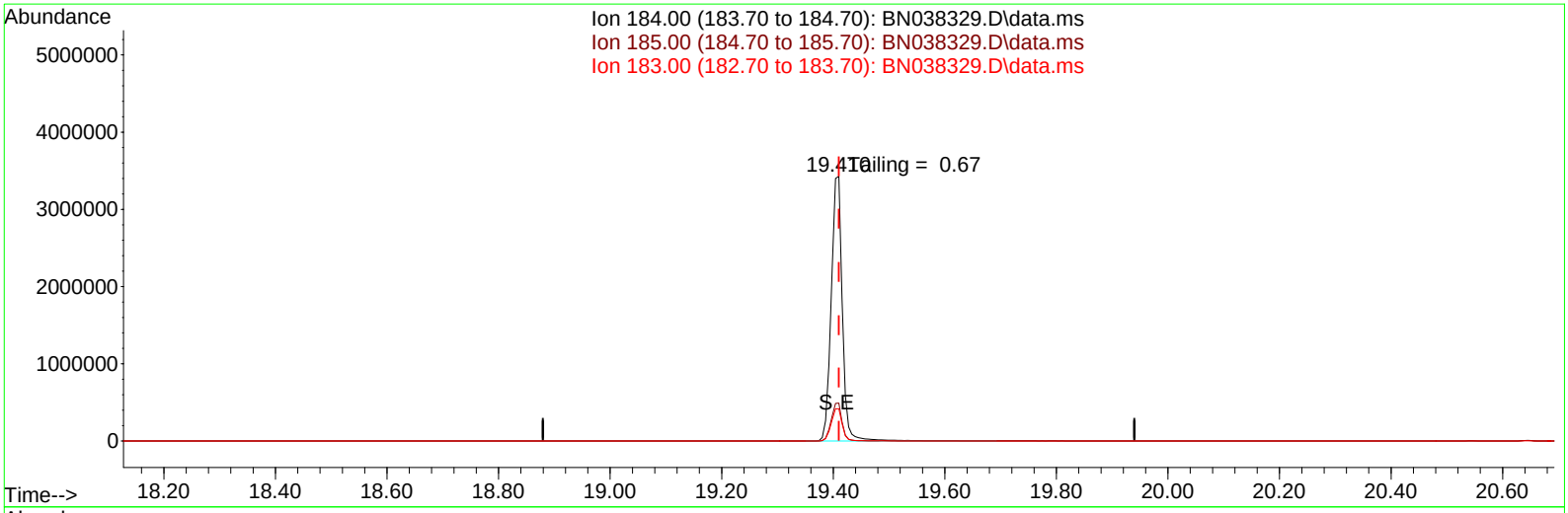
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	62.31
264.00	61.60	63.15
0.00	0.00	0.00

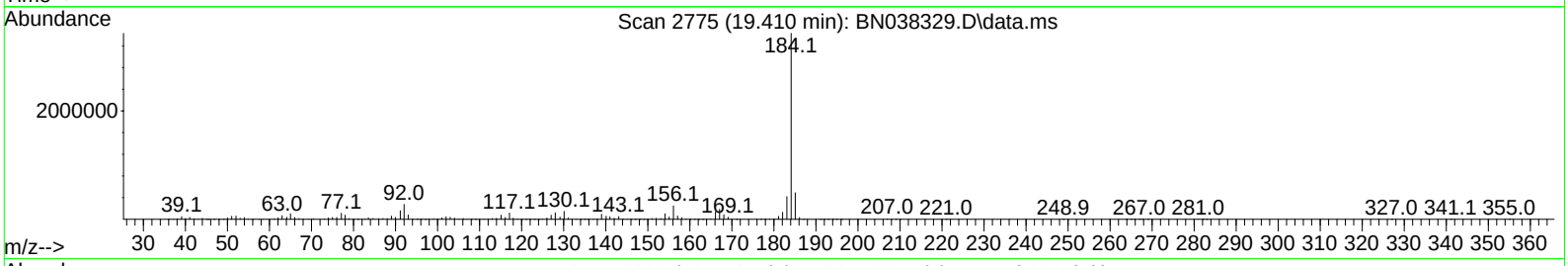
Sample Results: **BN038329.D**

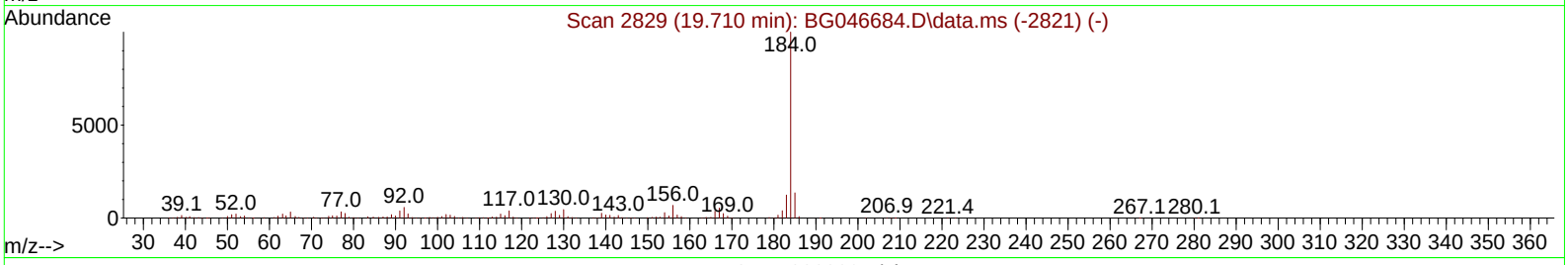
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN121125\
Data File : BN038329.D
Acq On : 11 Dec 2025 23:20
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Dec 12 03:10:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Dec 12 03:10:04 2025
Response via : Initial Calibration







TIC: BN038329.D\data.ms

(77) Benzidine

19.410min (0.000) 4649.10 ng

response 4774950

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.32
183.00	13.20	12.17
0.00	0.00	0.00

DDT Breakdown

Date	Instrument Name	DFTPP Data File
12/11/2025	BNA_N	BN038329.D
Compound Name	**Response**	**Retention Time**
DDT	2196296	20.645
DDD	86752	20.204
DDE	2556	19.692
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
89308	2285604	3.91

Instrument :
BNA_N
ClientSampleId :
DFTPP

Raw Data: **BN038288.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	PB170838BL	SDG No.:	Q3756
Lab Sample ID:	PB170838BL	Matrix:	Water
Analytical Method:	SW8270ESIM Level: LOW	% Solid:	0
Sample Wt/Vol:	1000 mL Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	3510C Prep Date: 12/05/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
123-91-1	1,4-Dioxane	0.070	U	1	0.070	0.20	ug/L	12/06/25 00:19	PB170838
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.31			30 (47) - 150 (106)	78%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.40			30 (54) - 150 (157)	99%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.36			30 (56) - 130 (116)	91%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.38			30 (50) - 130 (126)	95%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.35			30 (54) - 130 (175)	87%	SPK: 0.4		
INTERNAL STANDARDS		**Area Count**							
3855-82-1	1,4-Dichlorobenzene-d4	7140							
1146-65-2	Naphthalene-d8	19200							
15067-26-2	Acenaphthene-d10	8410							
1517-22-2	Phenanthrene-d10	11700							
1719-03-5	Chrysene-d12	9200							
1520-96-3	Perylene-d12	9720							

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

Sample Results: **BN038288.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
Data File : BN038288.D
Acq On : 06 Dec 2025 00:19
Operator : RC/JU
Sample : PB170838BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB170838BL

Quant Time: Dec 06 00:56:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration

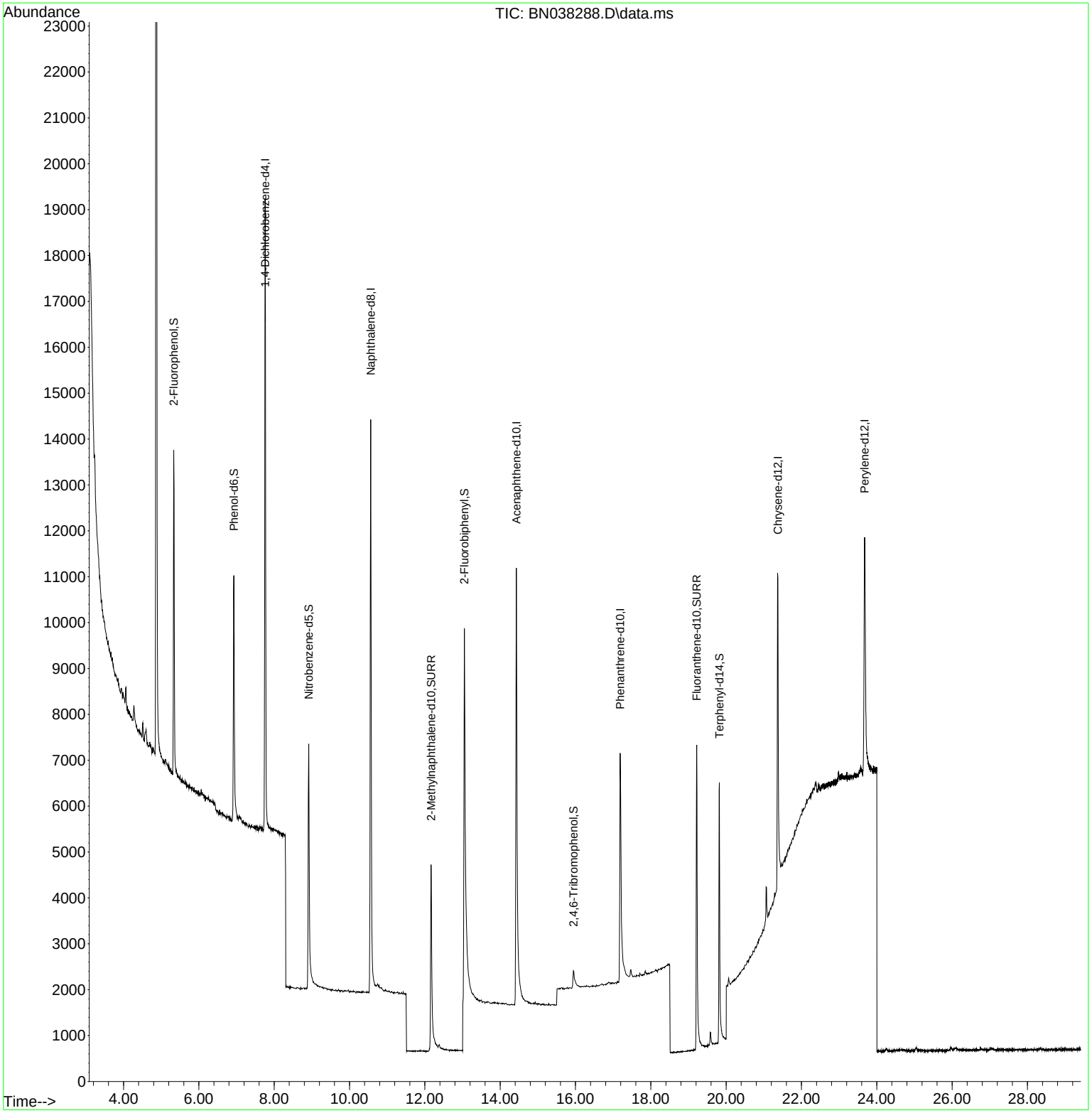
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.760	152	7136	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	19157	0.400	ng	#-0.01
13) Acenaphthene-d10	14.430	164	8410	0.400	ng	0.00
19) Phenanthrene-d10	17.186	188	11693	0.400	ng	# 0.00
29) Chrysene-d12	21.375	240	9196	0.400	ng	# 0.00
35) Perylene-d12	23.677	264	9718	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	5905	0.354	ng	0.00
5) Phenol-d6	6.930	99	6410	0.308	ng	0.00
8) Nitrobenzene-d5	8.918	82	5582	0.364	ng	0.00
11) 2-Methylnaphthalene-d10	12.167	152	8458	0.311	ng	0.00
14) 2,4,6-Tribromophenol	15.944	330	448	0.169	ng	0.01
15) 2-Fluorobiphenyl	13.051	172	12403	0.382	ng	0.00
27) Fluoranthene-d10	19.220	212	10011	0.395	ng	0.00
31) Terphenyl-d14	19.819	244	7406	0.349	ng	0.00
Target Compounds						Qvalue

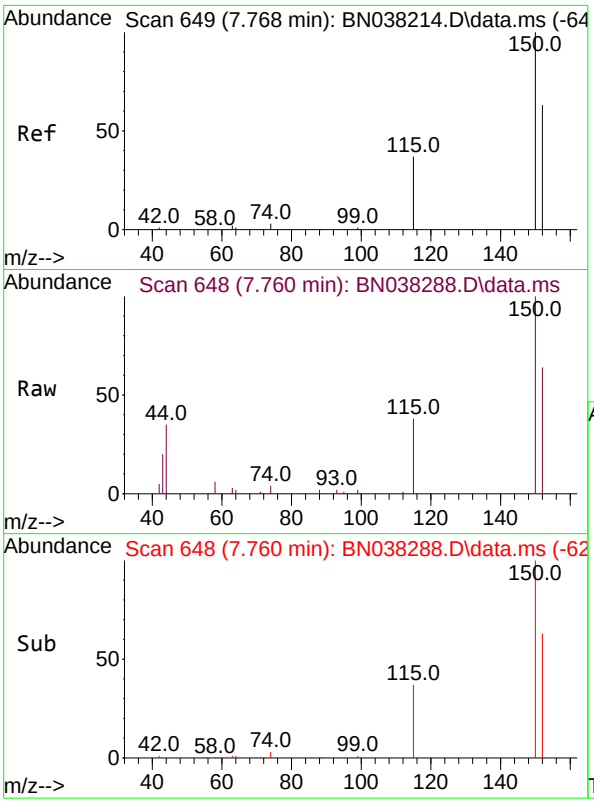
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
Data File : BN038288.D
Acq On : 06 Dec 2025 00:19
Operator : RC/JU
Sample : PB170838BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB170838BL

Quant Time: Dec 06 00:56:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration



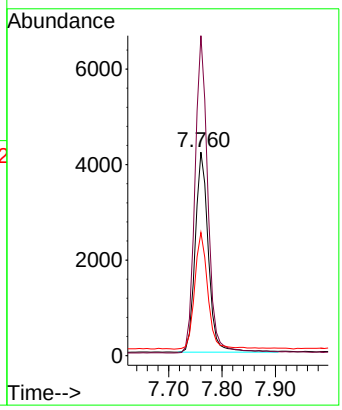


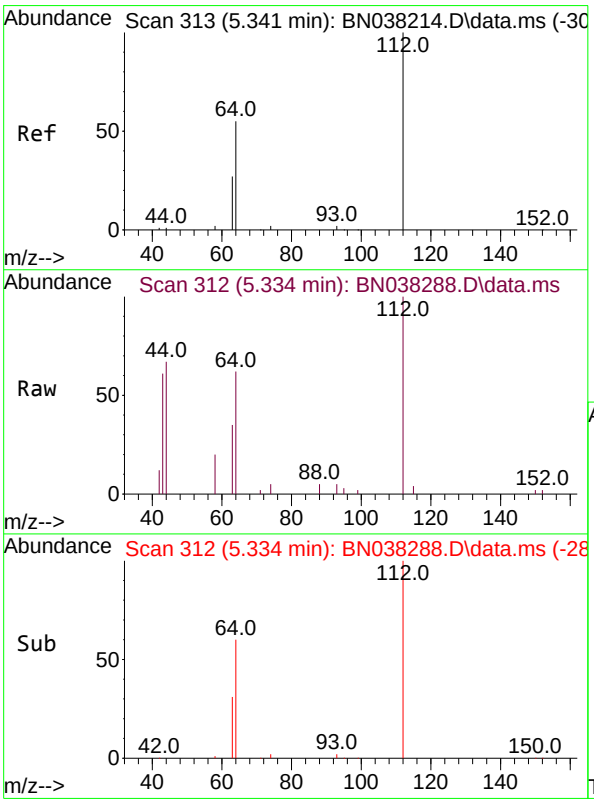
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.760 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

Instrument :
BNA_N
ClientSampleId :
PB170838BL

Tgt Ion:152 Resp: 7136

Ion	Ratio	Lower	Upper
152	100		
150	157.3	125.3	187.9
115	60.5	49.0	73.4

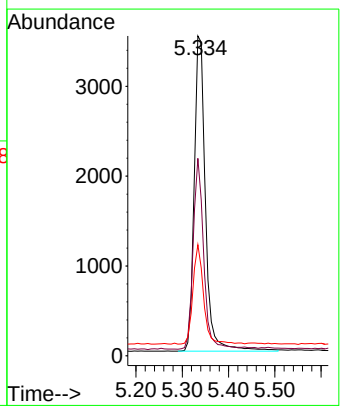


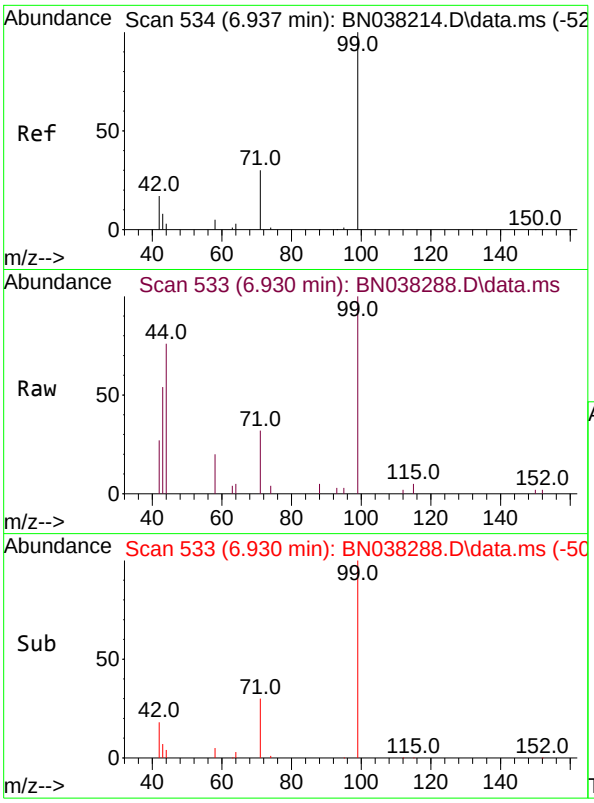


#4
2-Fluorophenol
Concen: 0.354 ng
RT: 5.334 min Scan# 312
Delta R.T. -0.007 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

Tgt Ion:112 Resp: 5905

Ion	Ratio	Lower	Upper
112	100		
64	56.7	45.0	67.4
63	29.9	23.2	34.8



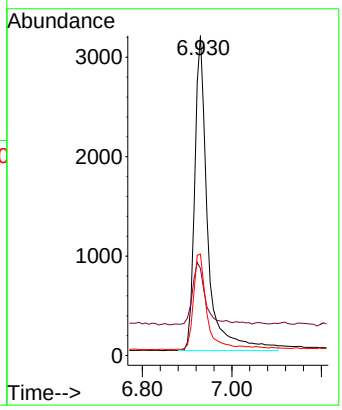


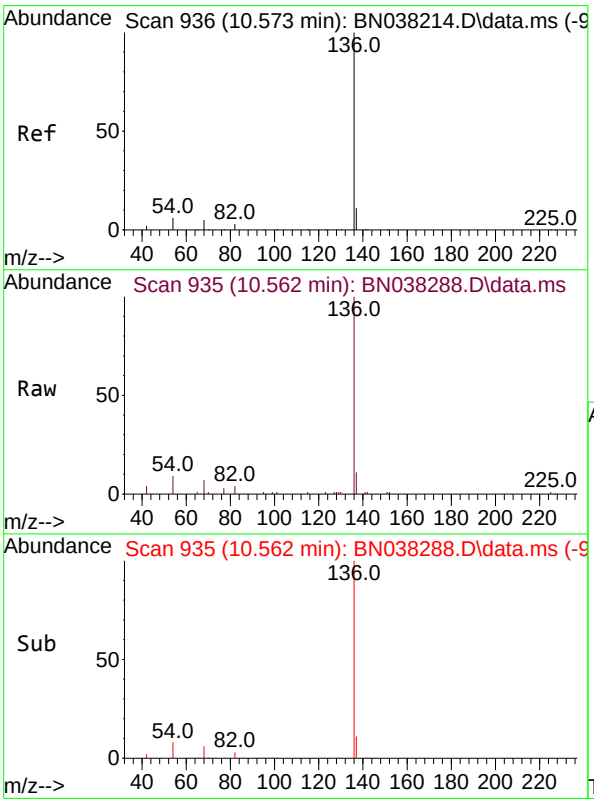
#5
Phenol-d6
Concen: 0.308 ng
RT: 6.930 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

Instrument :
BNA_N
ClientSampleId :
PB170838BL

Tgt Ion: 99 Resp: 6410

Ion	Ratio	Lower	Upper
99	100		
42	19.6	17.0	25.6
71	30.2	25.4	38.2

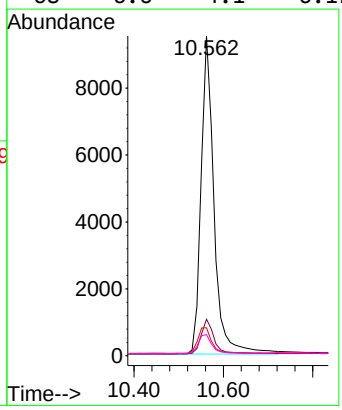


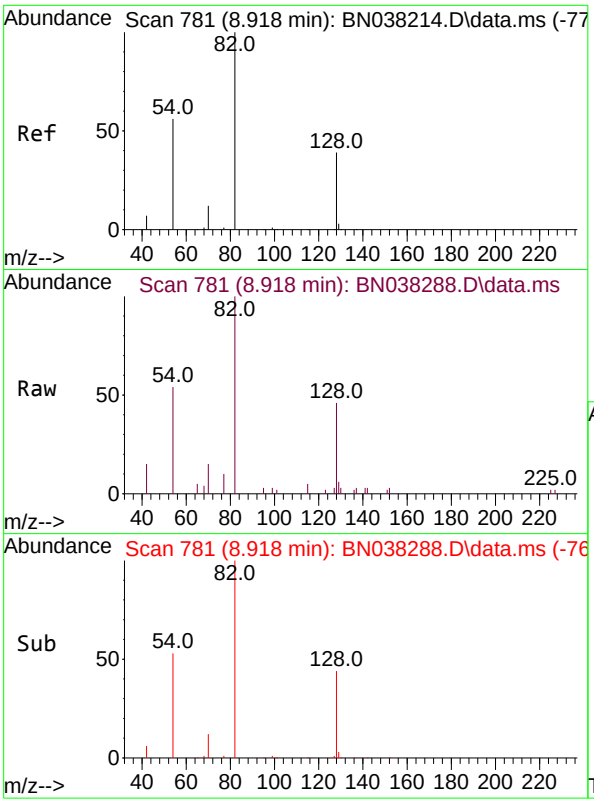


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 935
Delta R.T. -0.011 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

Tgt Ion:136 Resp: 19157

Ion	Ratio	Lower	Upper
136	100		
137	11.5	8.9	13.3
54	8.8	5.4	8.0#
68	6.6	4.1	6.1#



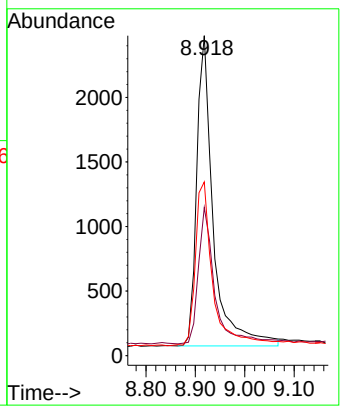


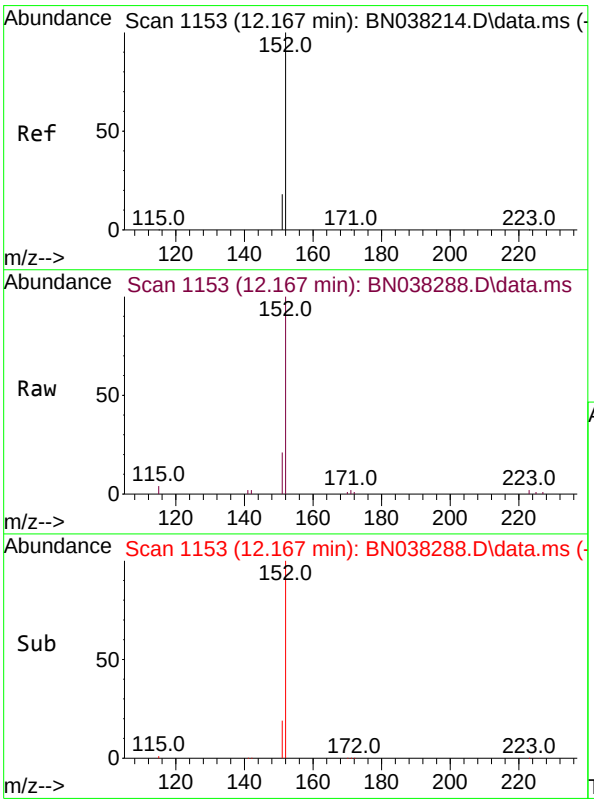
#8
Nitrobenzene-d5
Concen: 0.364 ng
RT: 8.918 min Scan# 78
Delta R.T. 0.000 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

Instrument :
BNA_N
ClientSampleId :
PB170838BL

Tgt Ion: 82 Resp: 5582

Ion	Ratio	Lower	Upper
82	100		
128	46.3	32.6	48.8
54	54.3	45.4	68.0

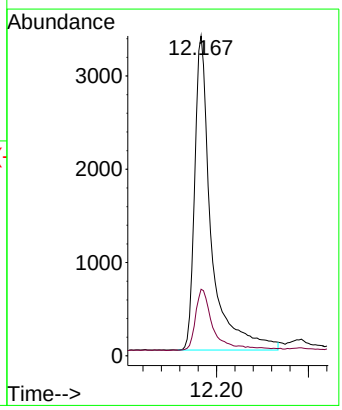


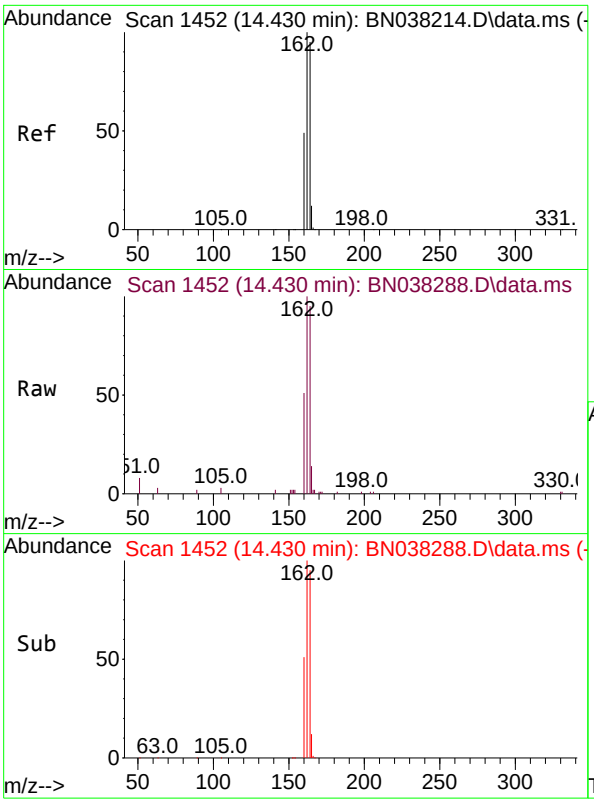


#11
2-Methylnaphthalene-d10
Concen: 0.311 ng
RT: 12.167 min Scan# 1153
Delta R.T. -0.000 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

Tgt Ion:152 Resp: 8458

Ion	Ratio	Lower	Upper
152	100		
151	19.1	16.7	25.1



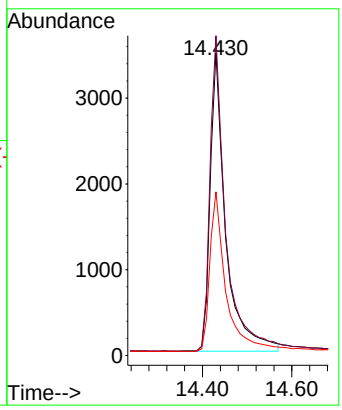


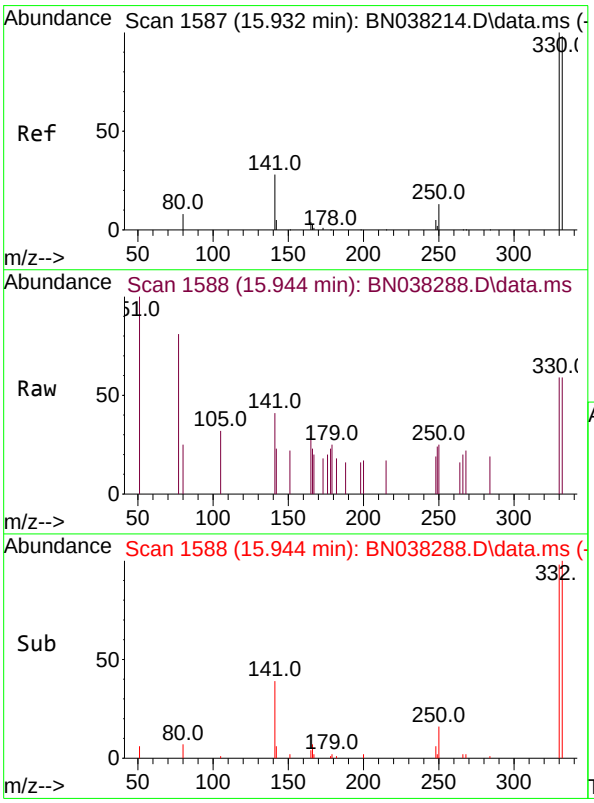
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.430 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

Instrument :
BNA_N
ClientSampleId :
PB170838BL

Tgt Ion:164 Resp: 8410

Ion	Ratio	Lower	Upper
164	100		
162	105.6	83.8	125.8
160	54.0	41.6	62.4

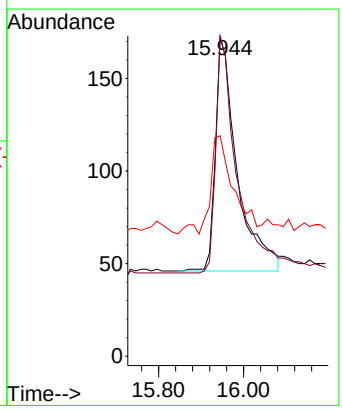


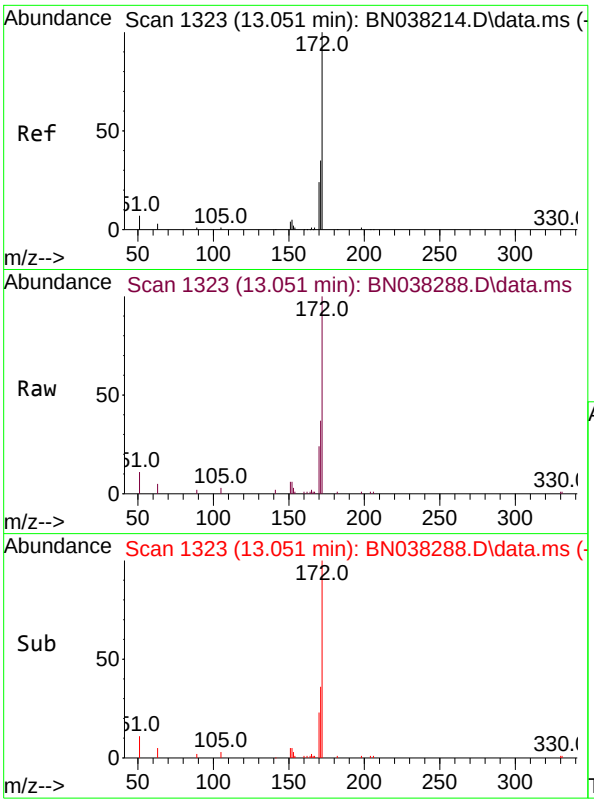


#14
2,4,6-Tribromophenol
Concen: 0.169 ng
RT: 15.944 min Scan# 1588
Delta R.T. 0.012 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

Tgt Ion:330 Resp: 448

Ion	Ratio	Lower	Upper
330	100		
332	98.4	77.8	116.6
141	44.0	33.0	49.4



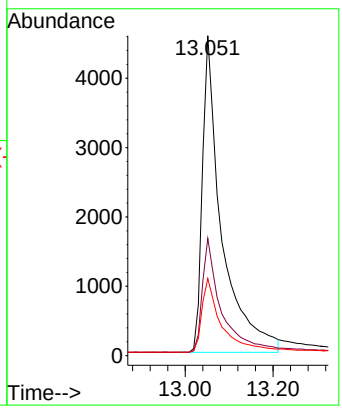


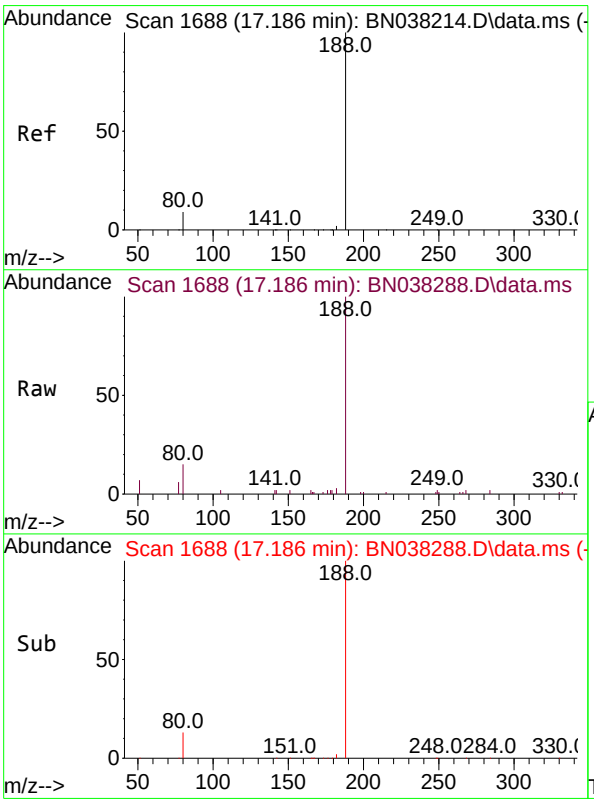
#15
2-Fluorobiphenyl
Concen: 0.382 ng
RT: 13.051 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

Instrument :
BNA_N
ClientSampleId :
PB170838BL

Tgt Ion:172 Resp: 12403

Ion	Ratio	Lower	Upper
172	100		
171	36.6	28.1	42.1
170	24.1	19.1	28.7

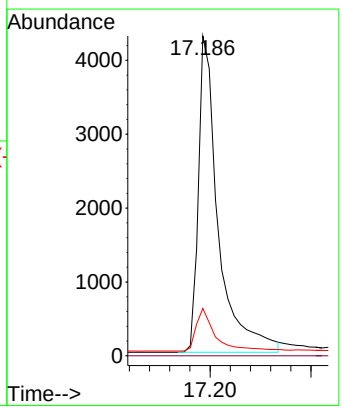


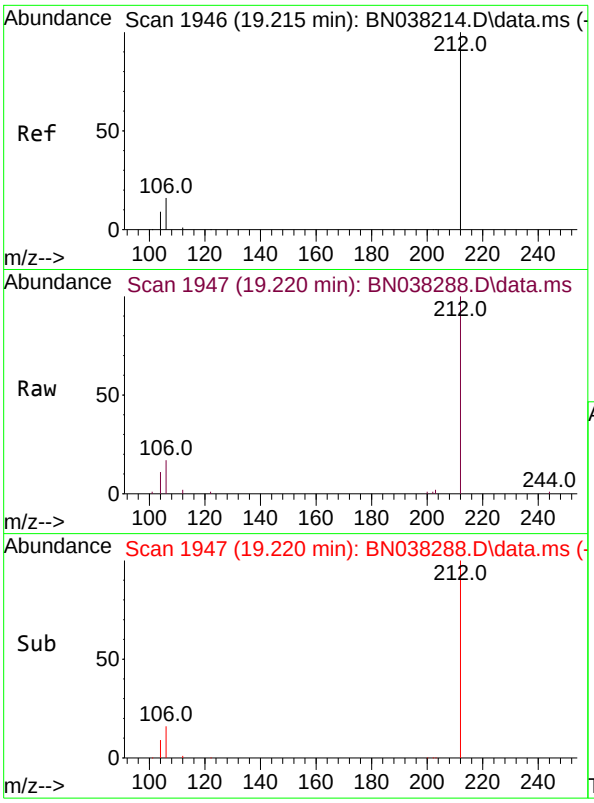


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.186 min Scan# 1688
Delta R.T. 0.000 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

Tgt Ion:188 Resp: 11693

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.8	7.7	11.5#



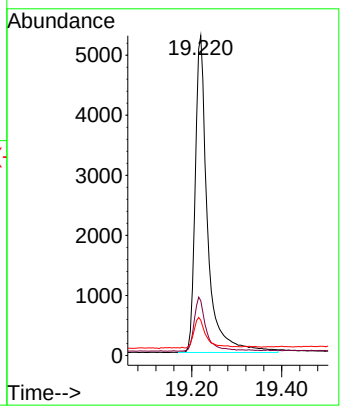


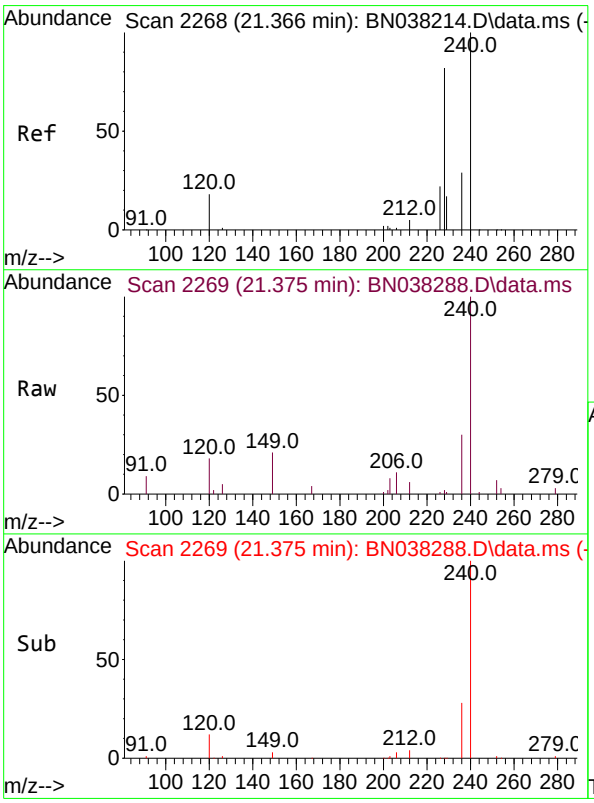
#27
Fluoranthene-d10
Concen: 0.395 ng
RT: 19.220 min Scan# 19
Delta R.T. 0.005 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

Instrument :
BNA_N
ClientSampleId :
PB170838BL

Tgt Ion:212 Resp: 10011

Ion	Ratio	Lower	Upper
212	100		
106	16.8	12.7	19.1
104	9.7	7.3	10.9

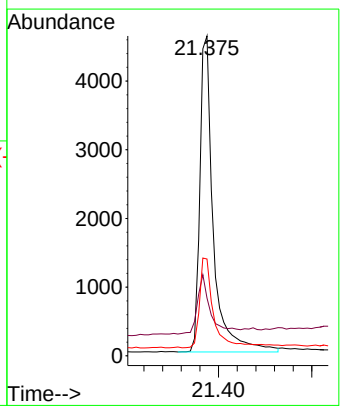


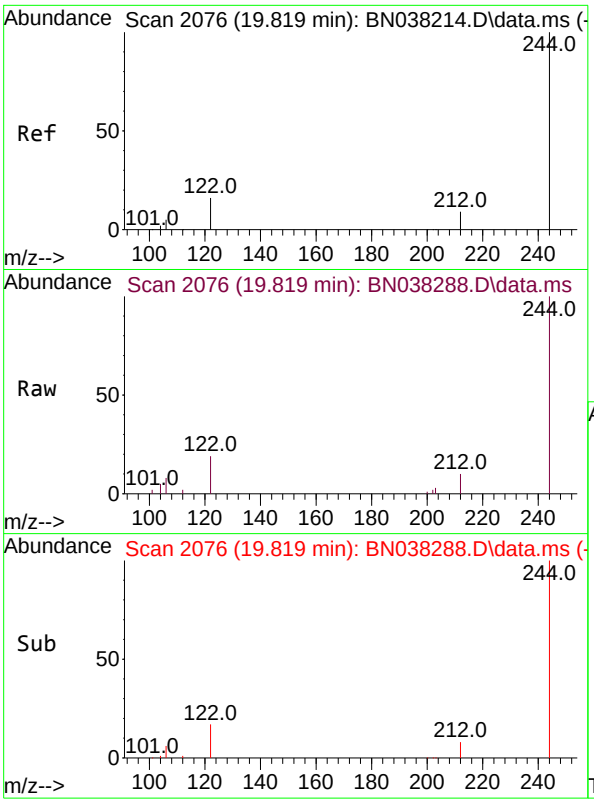


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.375 min Scan# 2269
Delta R.T. 0.009 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

Tgt Ion:240 Resp: 9196

Ion	Ratio	Lower	Upper
240	100		
120	18.1	18.1	27.1#
236	30.2	24.2	36.4



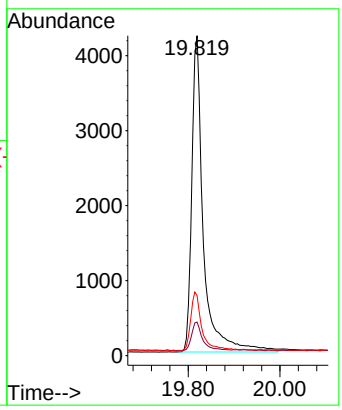


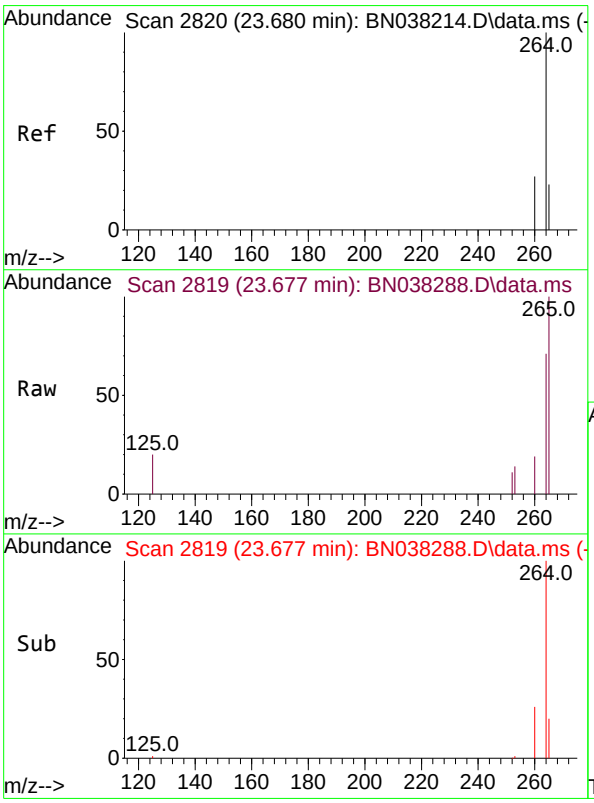
#31
Terphenyl-d14
Concen: 0.349 ng
RT: 19.819 min Scan# 20
Delta R.T. -0.000 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

Instrument :
BNA_N
ClientSampleId :
PB170838BL

Tgt Ion:244 Resp: 7406

Ion	Ratio	Lower	Upper
244	100		
212	10.5	7.7	11.5
122	18.7	13.6	20.4

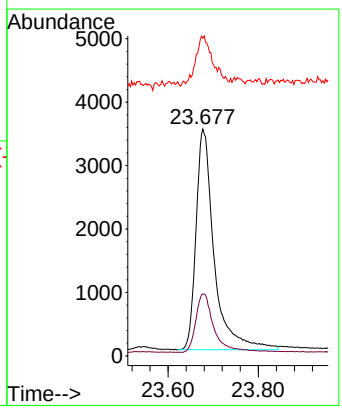




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.677 min Scan# 2819
Delta R.T. -0.003 min
Lab File: BN038288.D
Acq: 06 Dec 2025 00:19

Tgt Ion:264 Resp: 9718

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.7	32.5
265	140.0	98.0	147.0



Raw Data: **BN038289.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.	Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221	Date Received:	
Client Sample ID:	PB170838BS	SDG No.:	Q3756
Lab Sample ID:	PB170838BS	Matrix:	Water
Analytical Method:	SW8270ESIM Level: LOW	% Solid:	0
Sample Wt/Vol:	1000 mL Final Vol: 1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	3510C Prep Date: 12/05/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
123-91-1	1,4-Dioxane	0.33		1	0.070	0.20	ug/L	12/06/25 00:55	PB170838
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.40			30 (47) - 150 (106)	100%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.42			30 (54) - 150 (157)	104%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.42			30 (56) - 130 (116)	106%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.47			30 (50) - 130 (126)	118%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.36			30 (54) - 130 (175)	91%	SPK: 0.4		
INTERNAL STANDARDS		**Area Count**							
3855-82-1	1,4-Dichlorobenzene-d4	7070							
1146-65-2	Naphthalene-d8	18800							
15067-26-2	Acenaphthene-d10	7890							
1517-22-2	Phenanthrene-d10	11200							
1719-03-5	Chrysene-d12	9380							
1520-96-3	Perylene-d12	9470							

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\BN120625\
Data File : BN038289.D
Acq On : 06 Dec 2025 00:55
Operator : RC/JU
Sample : PB170838BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 06 01:31:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB170838BS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.760	152	7065	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	18764	0.400	ng	#-0.01
13) Acenaphthene-d10	14.419	164	7890	0.400	ng	-0.01
19) Phenanthrene-d10	17.173	188	11230	0.400	ng	#-0.01
29) Chrysene-d12	21.366	240	9380	0.400	ng	# 0.00
35) Perylene-d12	23.674	264	9467	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	6540	0.396	ng	0.00
5) Phenol-d6	6.930	99	7356	0.357	ng	0.00
8) Nitrobenzene-d5	8.907	82	6354	0.423	ng	-0.01
11) 2-Methylnaphthalene-d10	12.161	152	10719m	0.402	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	842	0.339	ng	0.00
15) 2-Fluorobiphenyl	13.040	172	14399	0.472	ng	-0.01
27) Fluoranthene-d10	19.211	212	10168	0.417	ng	0.00
31) Terphenyl-d14	19.814	244	7877	0.364	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.254	88	2458	0.330	ng	# 34
3) n-Nitrosodimethylamine	3.557	42	3487	0.380	ng	# 94
6) bis(2-Chloroethyl)ether	7.183	93	7355	0.372	ng	97
9) Naphthalene	10.615	128	20286	0.389	ng	100
10) Hexachlorobutadiene	10.904	225	3715	0.419	ng	# 100
12) 2-Methylnaphthalene	12.232	142	11265	0.329	ng	98
16) Acenaphthylene	14.142	152	15238	0.432	ng	99
17) Acenaphthene	14.484	154	9248	0.376	ng	99
18) Fluorene	15.478	166	11047	0.347	ng	98
20) 4,6-Dinitro-2-methylph...	15.572	198	252	0.381	ng	# 84
21) 4-Bromophenyl-phenylether	16.379	248	2987	0.384	ng	98
22) Hexachlorobenzene	16.491	284	3789	0.396	ng	99
23) Atrazine	16.639	200	1928	0.388	ng	# 93
24) Pentachlorophenol	16.838	266	1901	0.725	ng	98
25) Phenanthrene	17.223	178	13357	0.379	ng	99
26) Anthracene	17.310	178	11917	0.396	ng	99
28) Fluoranthene	19.243	202	13981	0.411	ng	99
30) Pyrene	19.605	202	14466	0.309	ng	99
32) Benzo(a)anthracene	21.348	228	12883	0.406	ng	100
33) Chrysene	21.402	228	15070	0.402	ng	99
34) Bis(2-ethylhexyl)phtha...	21.286	149	5639	0.324	ng	99
36) Indeno(1,2,3-cd)pyrene	26.028	276	18395	0.420	ng	99
37) Benzo(b)fluoranthene	22.975	252	14844	0.382	ng	99
38) Benzo(k)fluoranthene	23.022	252	16342	0.405	ng	100
39) Benzo(a)pyrene	23.572	252	13524	0.415	ng	97
40) Dibenzo(a,h)anthracene	26.042	278	13869	0.418	ng	99
41) Benzo(g,h,i)perylene	26.738	276	16373	0.413	ng	98

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

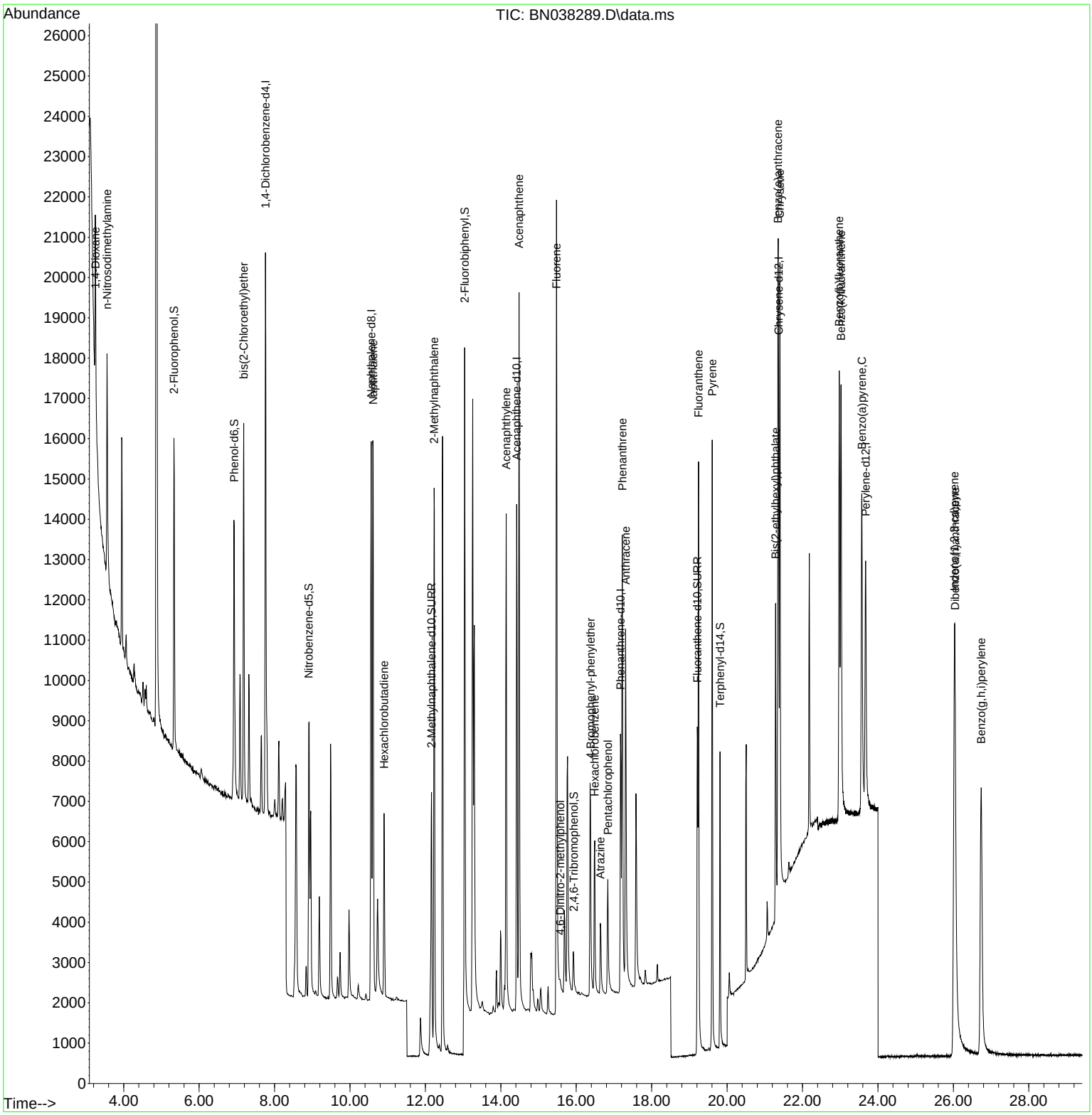
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
Data File : BN038289.D
Acq On : 06 Dec 2025 00:55
Operator : RC/JU
Sample : PB170838BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

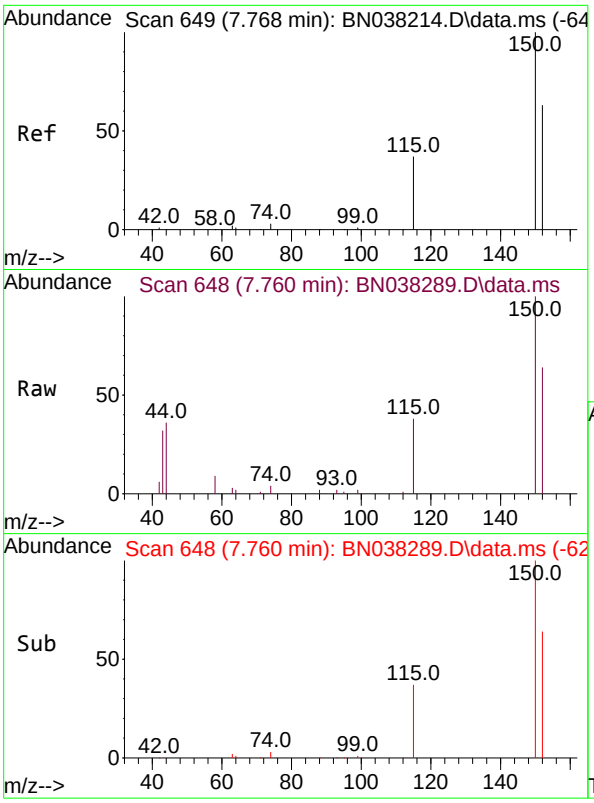
Quant Time: Dec 06 01:31:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB170838BS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025

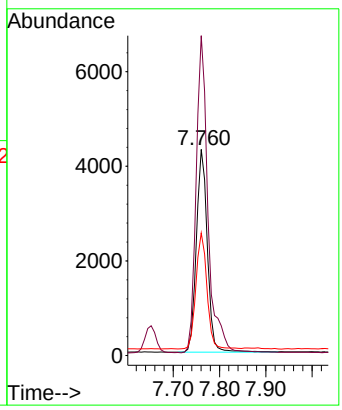




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.760 min Scan# 64
Delta R.T. -0.008 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:152 Resp: 706

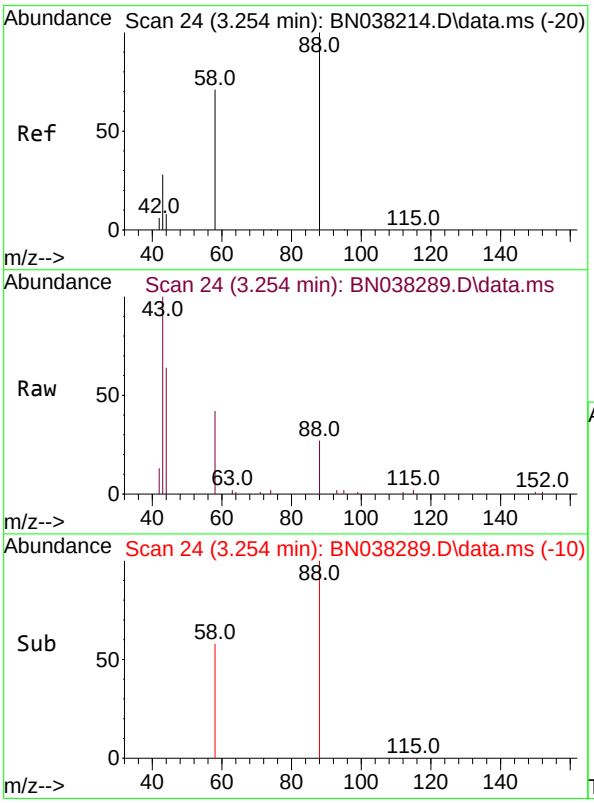
Ion	Ratio	Lower	Upper
152	100		
150	155.2	125.3	187.9
115	59.5	49.0	73.4



Instrument :
BNA_N
ClientSampleId :
PB170838BS

Manual Integrations
APPROVED

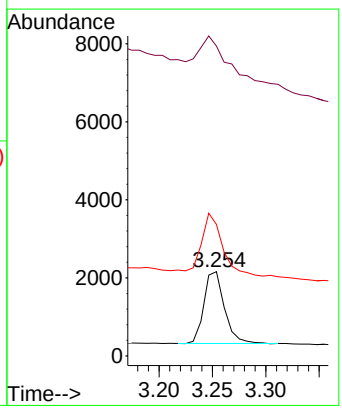
Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025

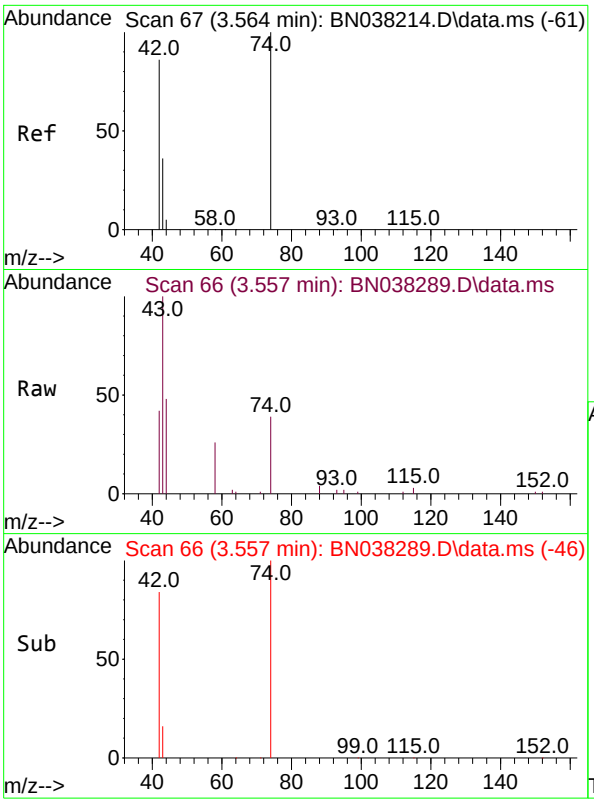


#2
1,4-Dioxane
Concen: 0.330 ng
RT: 3.254 min Scan# 24
Delta R.T. -0.000 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion: 88 Resp: 2458

Ion	Ratio	Lower	Upper
88	100		
43	124.6	24.8	37.2#
58	96.7	61.1	91.7#

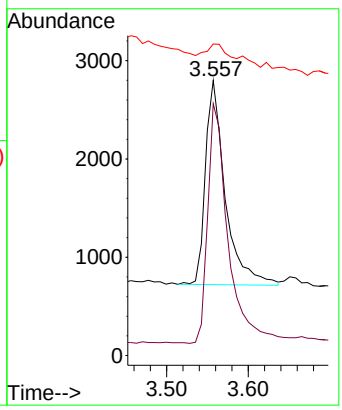




#3
n-Nitrosodimethylamine
Concen: 0.380 ng
RT: 3.557 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion: 42 Resp: 348

Ion	Ratio	Lower	Upper
42	100		
74	121.8	96.2	144.2
44	34.6	8.0	12.0#



Instrument :
BNA_N
ClientSampleId :
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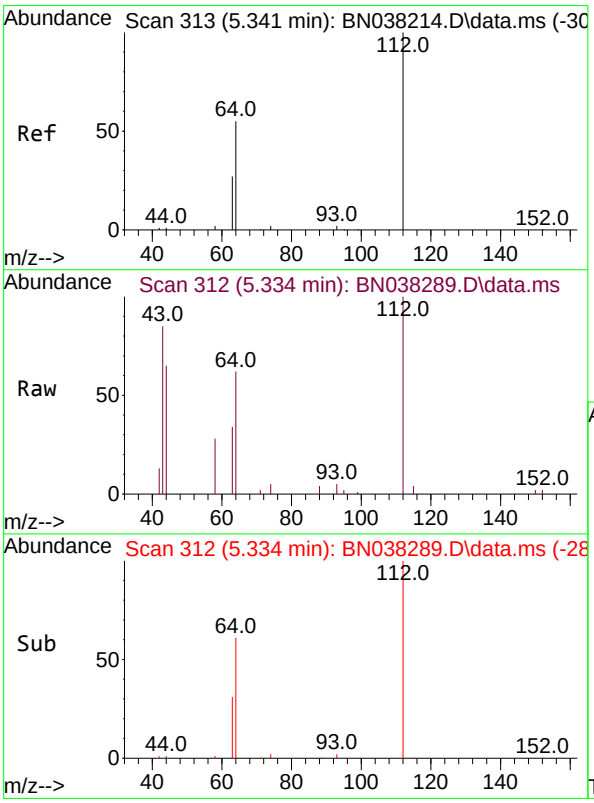
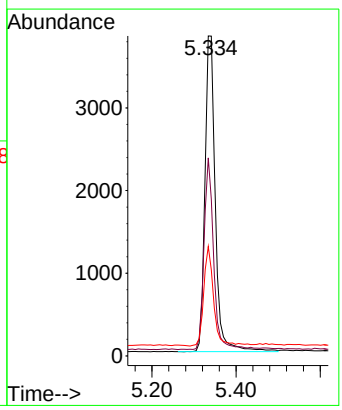
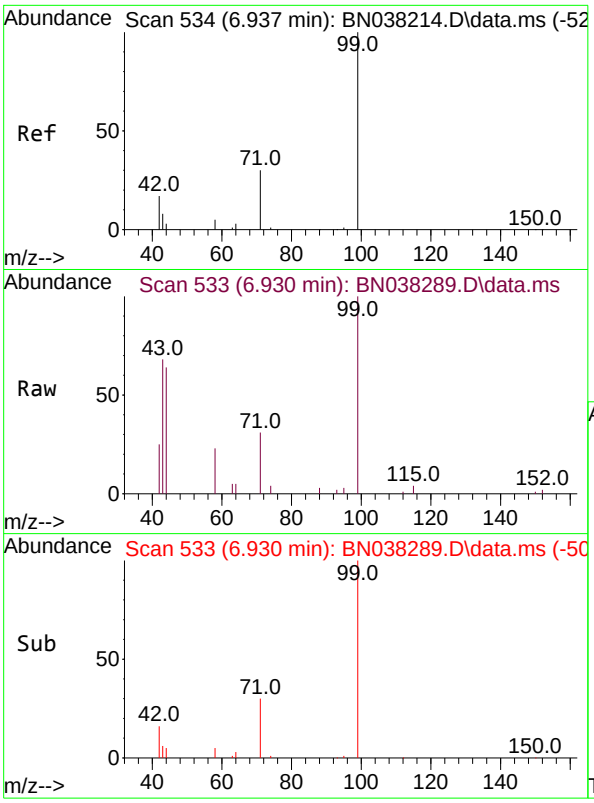


#4
2-Fluorophenol
Concen: 0.396 ng
RT: 5.334 min Scan# 312
Delta R.T. -0.007 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:112 Resp: 6540

Ion	Ratio	Lower	Upper
112	100		
64	55.6	45.0	67.4
63	30.6	23.2	34.8

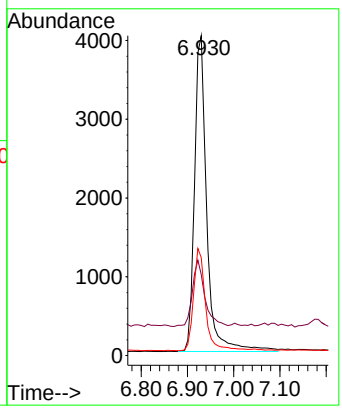




#5
Phenol-d6
Concen: 0.357 ng
RT: 6.930 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion: 99 Resp: 735

Ion	Ratio	Lower	Upper
99	100		
42	21.1	17.0	25.6
71	31.6	25.4	38.2



Instrument :
BNA_N
ClientSampleId :
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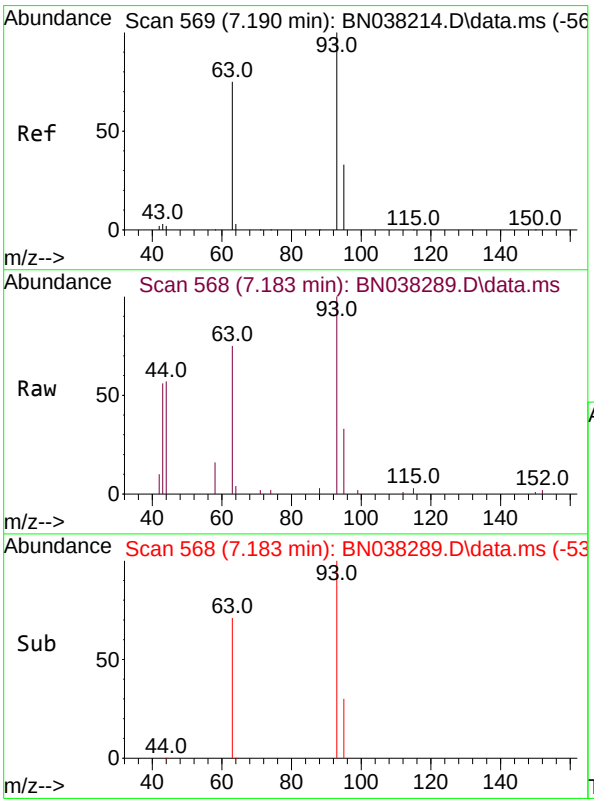
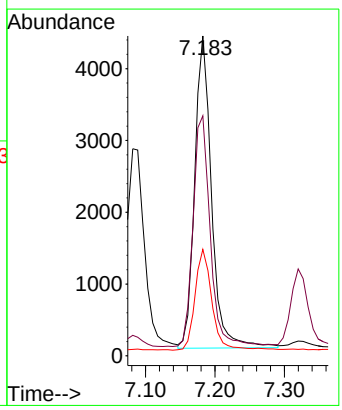
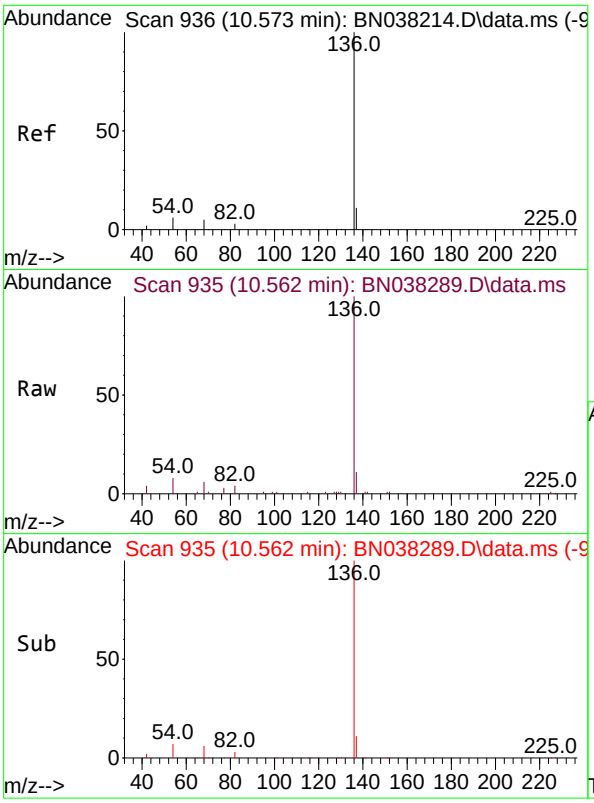


#6
bis(2-Chloroethyl)ether
Concen: 0.372 ng
RT: 7.183 min Scan# 568
Delta R.T. -0.007 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion: 93 Resp: 7355

Ion	Ratio	Lower	Upper
93	100		
63	75.3	58.1	87.1
95	32.5	25.1	37.7

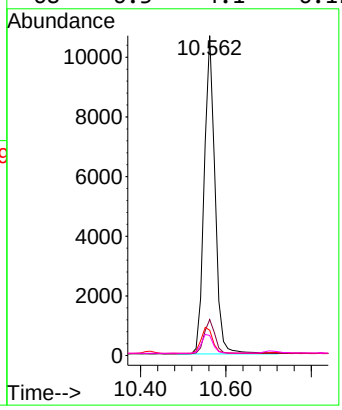




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:136 Resp: 1876

Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.9	13.3
54	7.9	5.4	8.0
68	6.3	4.1	6.1#



Instrument :
BNA_N
ClientSampleId :
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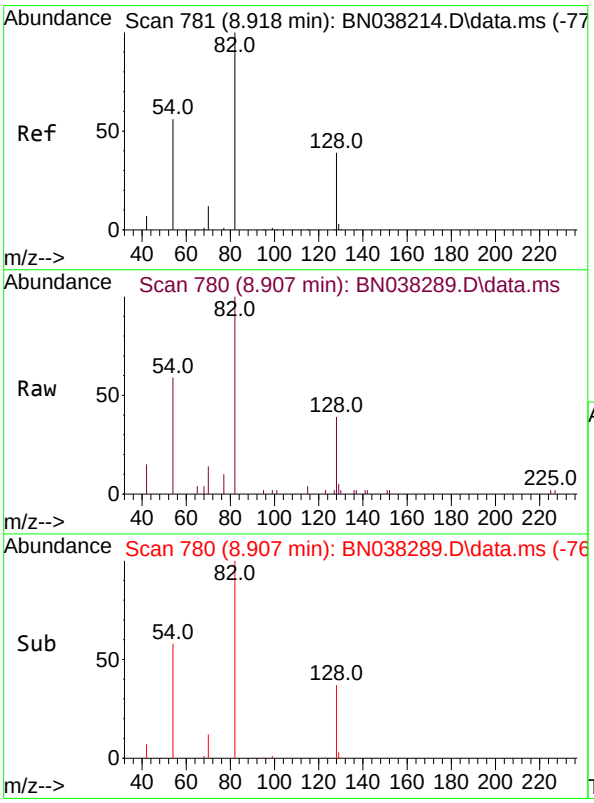
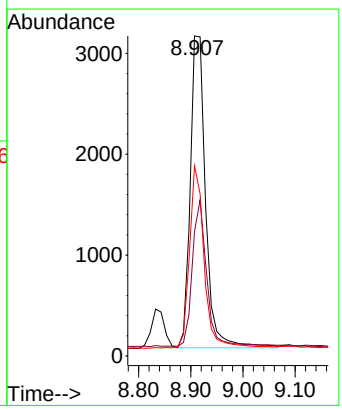
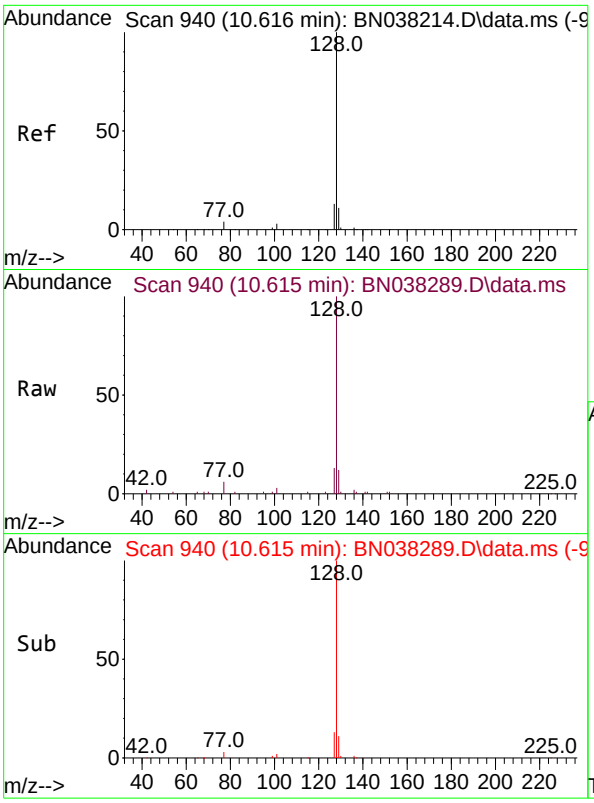


#8
Nitrobenzene-d5
Concen: 0.423 ng
RT: 8.907 min Scan# 780
Delta R.T. -0.011 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion: 82 Resp: 6354

Ion	Ratio	Lower	Upper
82	100		
128	38.9	32.6	48.8
54	59.4	45.4	68.0

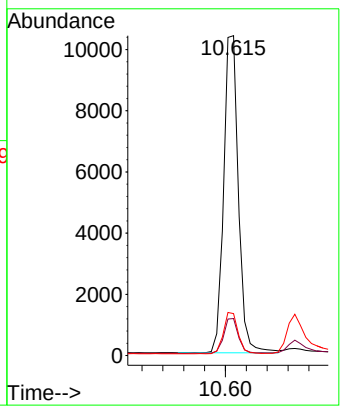




#9
Naphthalene
Concen: 0.389 ng
RT: 10.615 min Scan# 94
Delta R.T. -0.000 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:128 Resp: 2028

Ion	Ratio	Lower	Upper
128	100		
129	11.6	9.1	13.7
127	13.1	10.6	16.0



Instrument :
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ClientSampleId :
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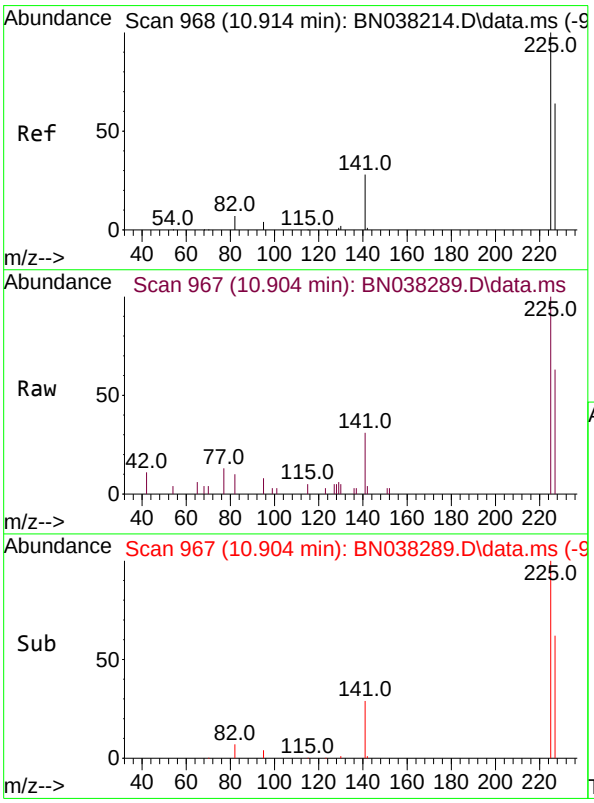
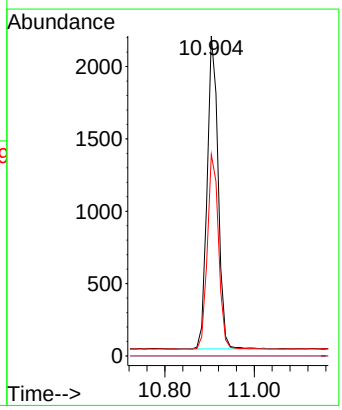
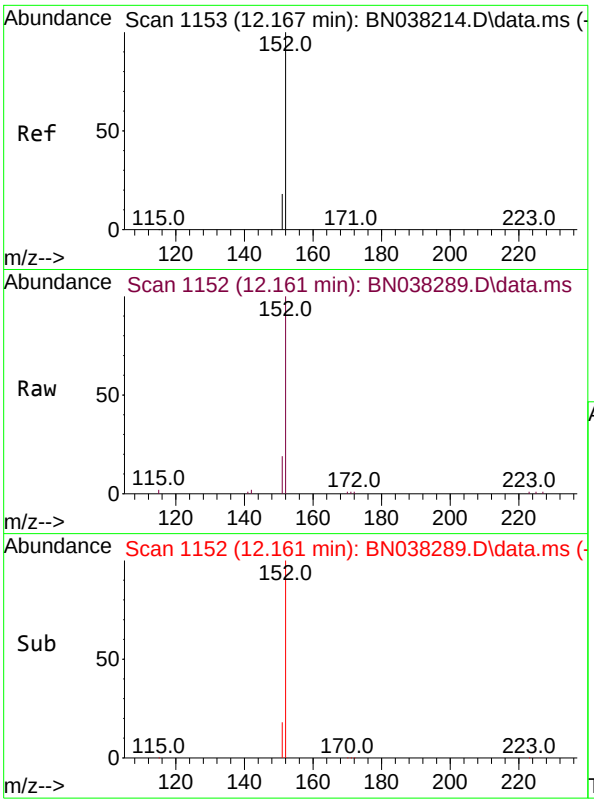


#10
Hexachlorobutadiene
Concen: 0.419 ng
RT: 10.904 min Scan# 967
Delta R.T. -0.011 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:225 Resp: 3715

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.3	50.5	75.7

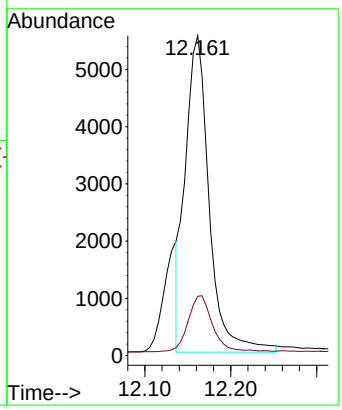




#11
2-Methylnaphthalene-d10
Concen: 0.402 ng m
RT: 12.161 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:152 Resp: 1071

Ion	Ratio	Lower	Upper
152	100		
151	18.4	16.7	25.1



Instrument :
BNA_N
ClientSampleId :
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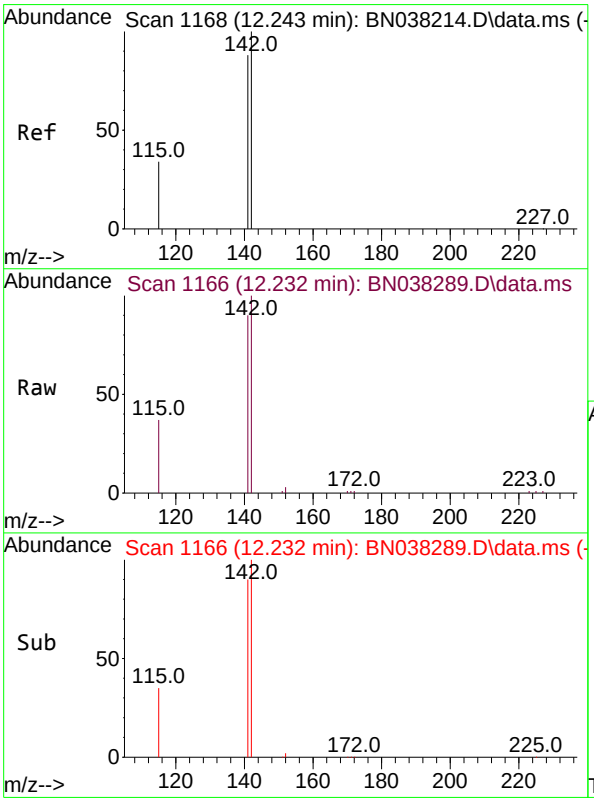
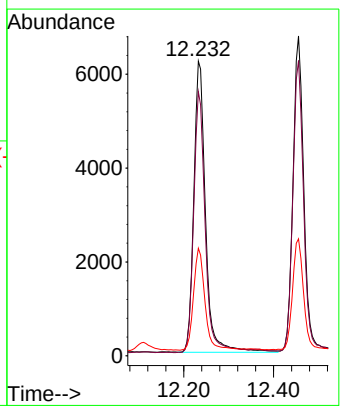
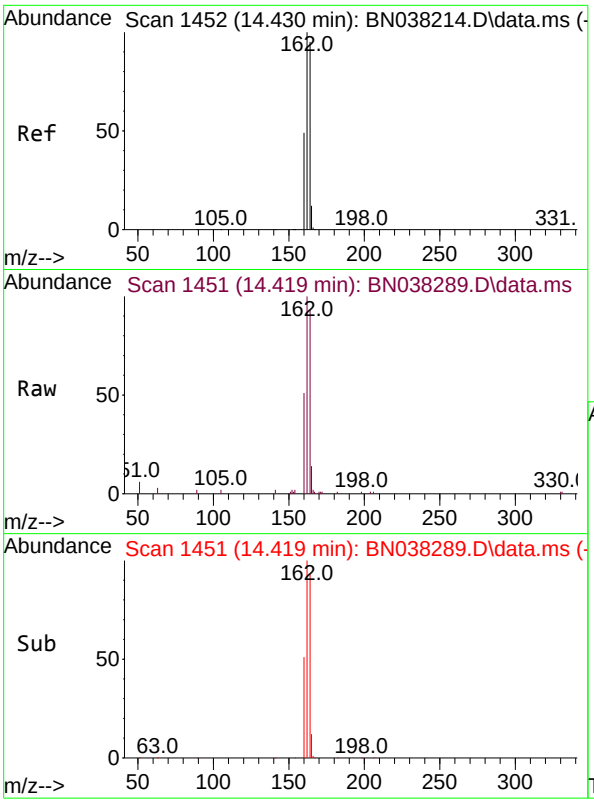


#12
2-Methylnaphthalene
Concen: 0.329 ng
RT: 12.232 min Scan# 1166
Delta R.T. -0.011 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:142 Resp: 11265

Ion	Ratio	Lower	Upper
142	100		
141	89.6	70.9	106.3
115	36.5	27.7	41.5

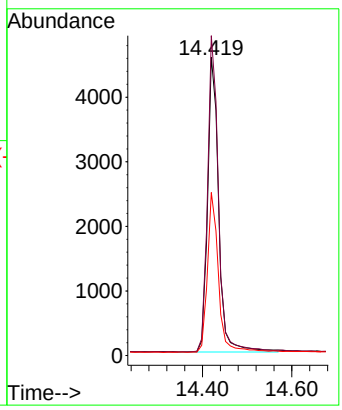




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.419 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:164 Resp: 789

Ion	Ratio	Lower	Upper
164	100		
162	107.3	83.8	125.8
160	54.7	41.6	62.4



Instrument :
BNA_N
ClientSampleId :
PB170838BS

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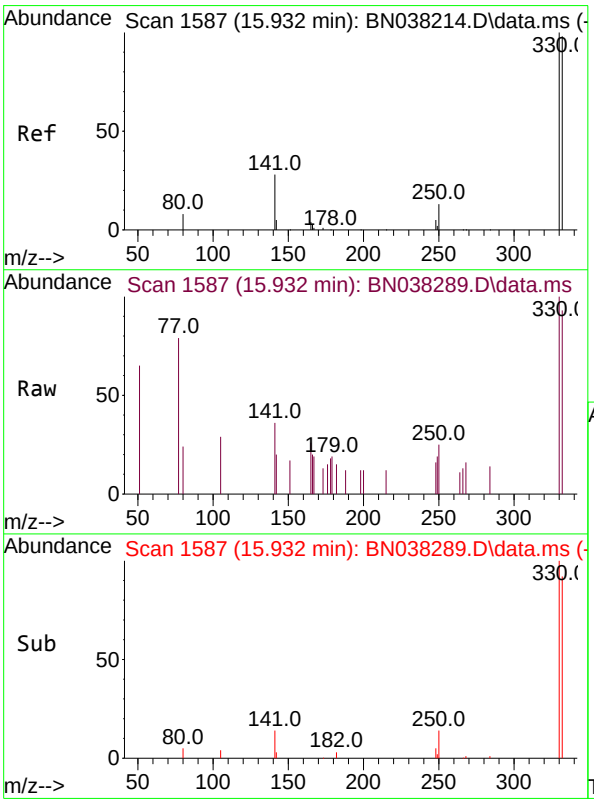
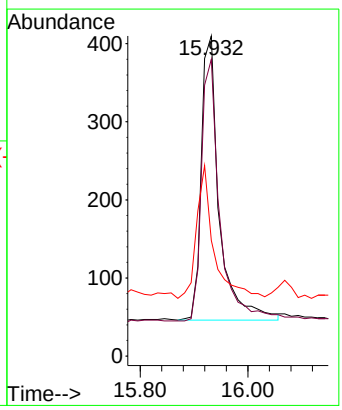
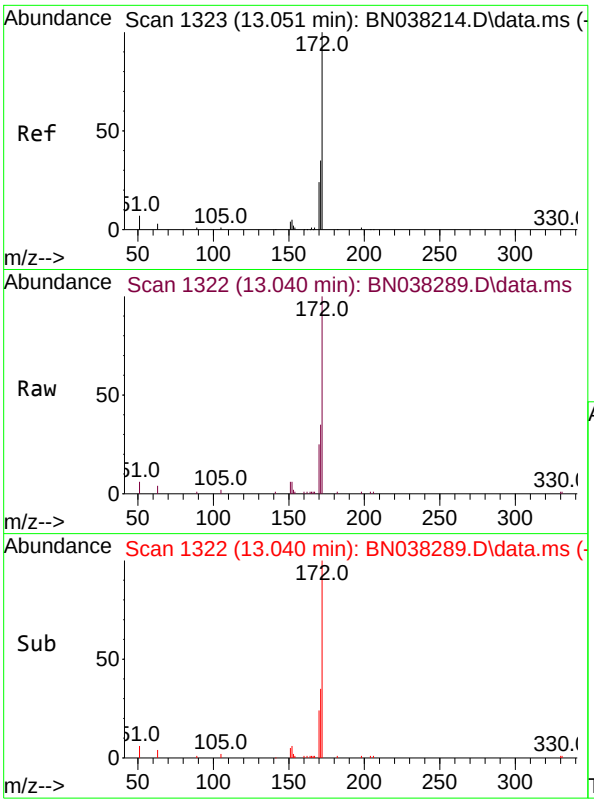


#14
2,4,6-Tribromophenol
Concen: 0.339 ng
RT: 15.932 min Scan# 1587
Delta R.T. -0.000 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:330 Resp: 842

Ion	Ratio	Lower	Upper
330	100		
332	94.8	77.8	116.6
141	44.3	33.0	49.4

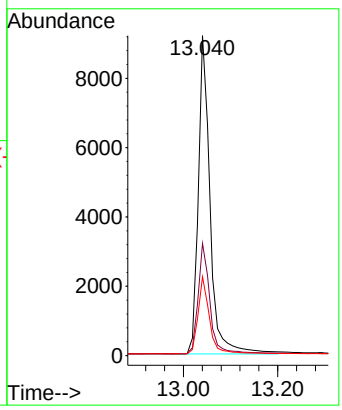




#15
2-Fluorobiphenyl
Concen: 0.472 ng
RT: 13.040 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:172 Resp: 1439

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.1	42.1
170	24.6	19.1	28.7



Instrument :
BNA_N
ClientSampleId :
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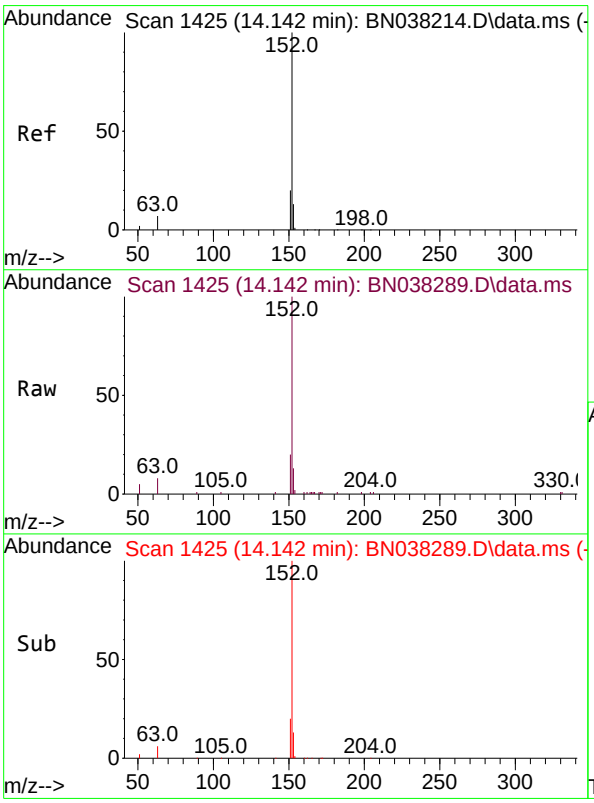
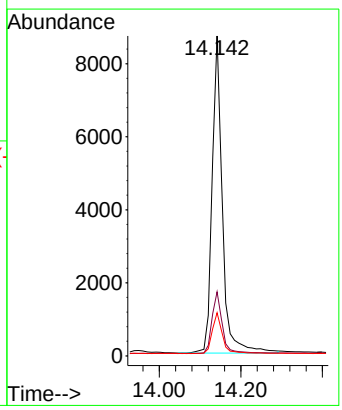
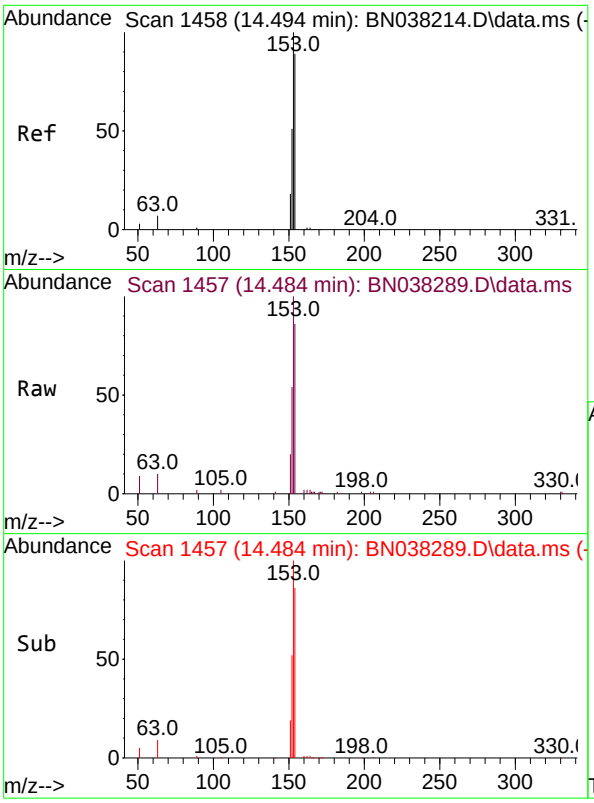


#16
Acenaphthylene
Concen: 0.432 ng
RT: 14.142 min Scan# 1425
Delta R.T. -0.000 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:152 Resp: 15238

Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.6	23.4
153	12.8	10.6	15.8

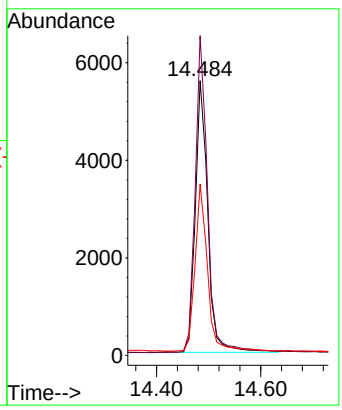




#17
Acenaphthene
Concen: 0.376 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:154 Resp: 924

Ion	Ratio	Lower	Upper
154	100		
153	115.6	91.1	136.7
152	60.7	48.2	72.2



Instrument :
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ClientSampleId :
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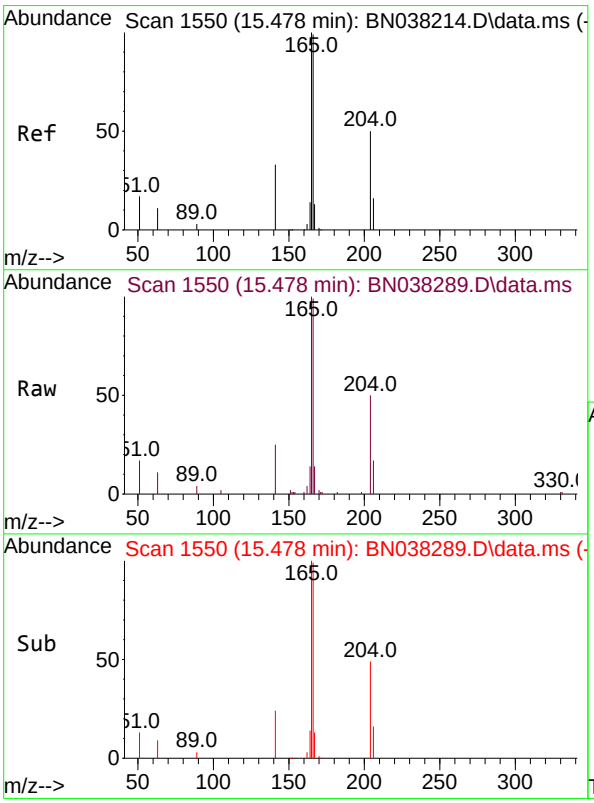
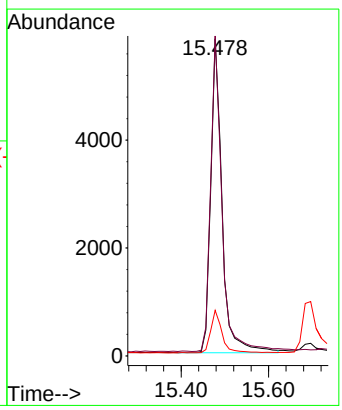
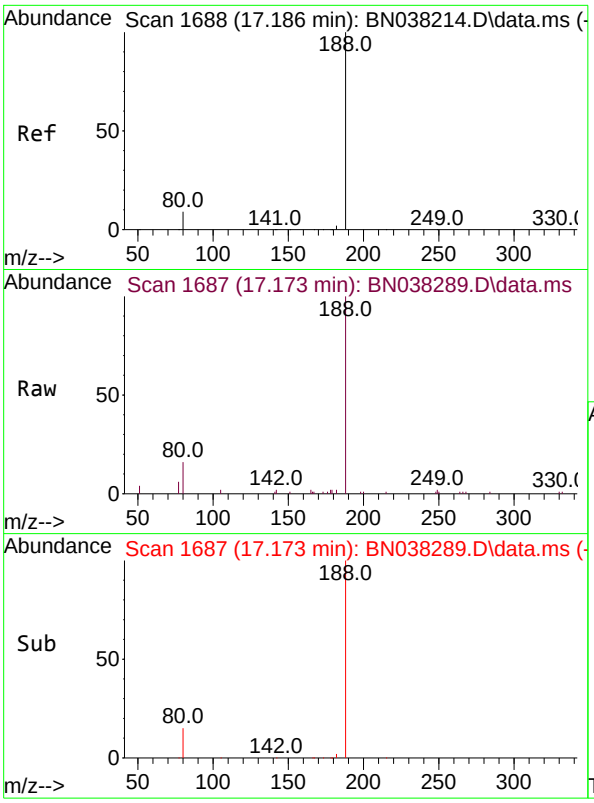


#18
Fluorene
Concen: 0.347 ng
RT: 15.478 min Scan# 1550
Delta R.T. -0.000 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:166 Resp: 11047

Ion	Ratio	Lower	Upper
166	100		
165	100.1	78.7	118.1
167	13.7	10.9	16.3





#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.173 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:188 Resp: 1123(

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.3	7.7	11.5#

Instrument :
BNA_N
ClientSampleId :
PB170838BS

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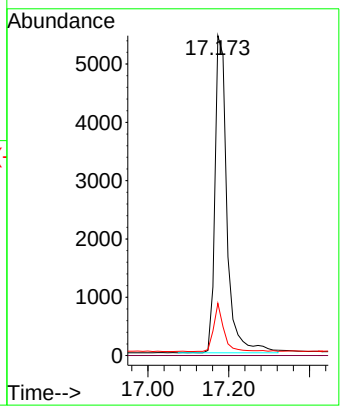
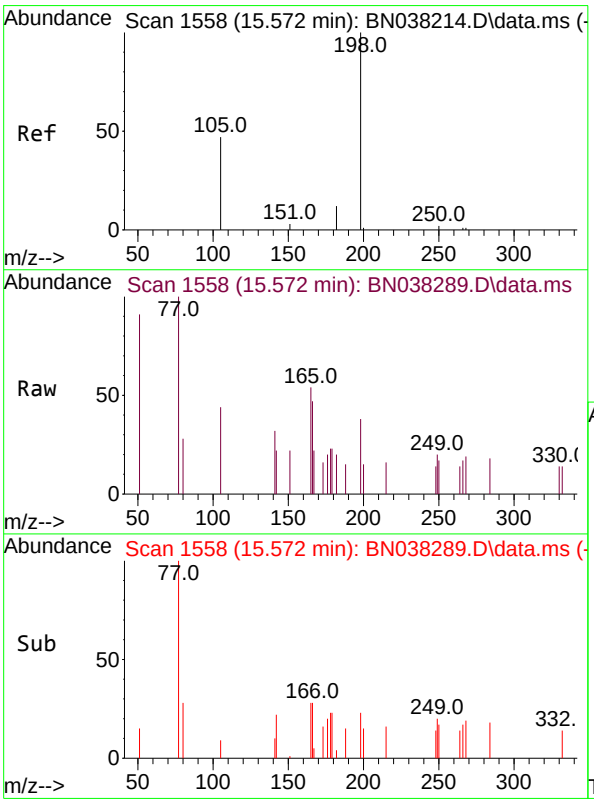
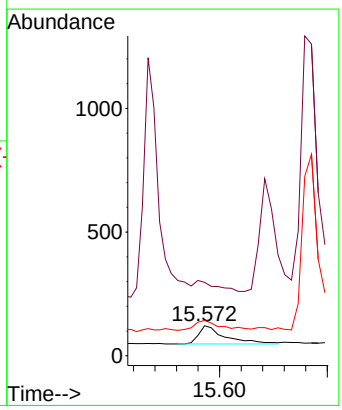


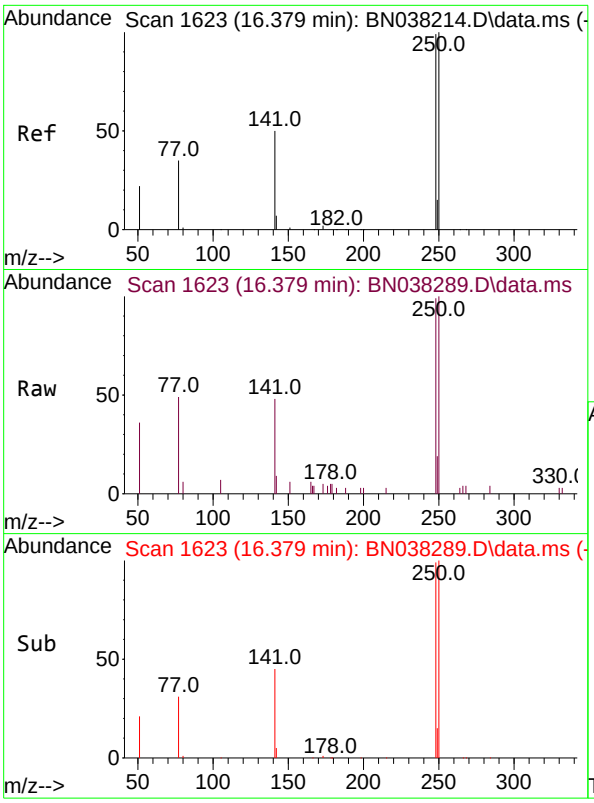


#20
4,6-Dinitro-2-methylphenol
Concen: 0.381 ng
RT: 15.572 min Scan# 1558
Delta R.T. 0.000 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:198 Resp: 252

Ion	Ratio	Lower	Upper
198	100		
51	243.4	205.1	307.7
105	117.2	61.6	92.4#

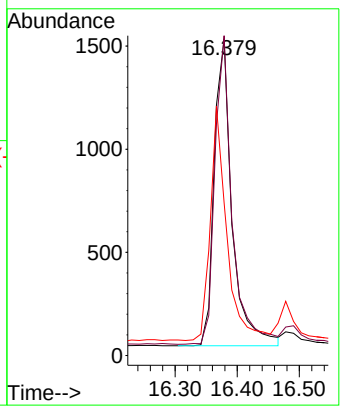




#21
4-Bromophenyl-phenylether
Concen: 0.384 ng
RT: 16.379 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:248 Resp: 298

Ion	Ratio	Lower	Upper
248	100		
250	101.0	80.8	121.2
141	48.2	41.0	61.6



Instrument :
BNA_N
ClientSampleId :
PB170838BS

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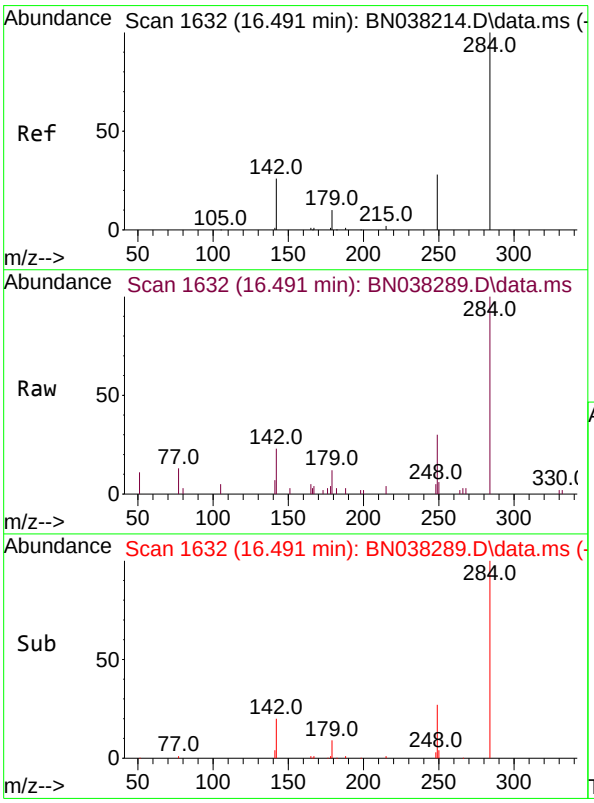
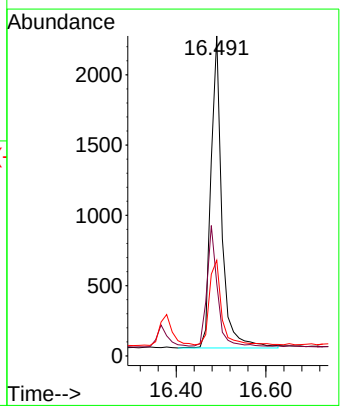
Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025

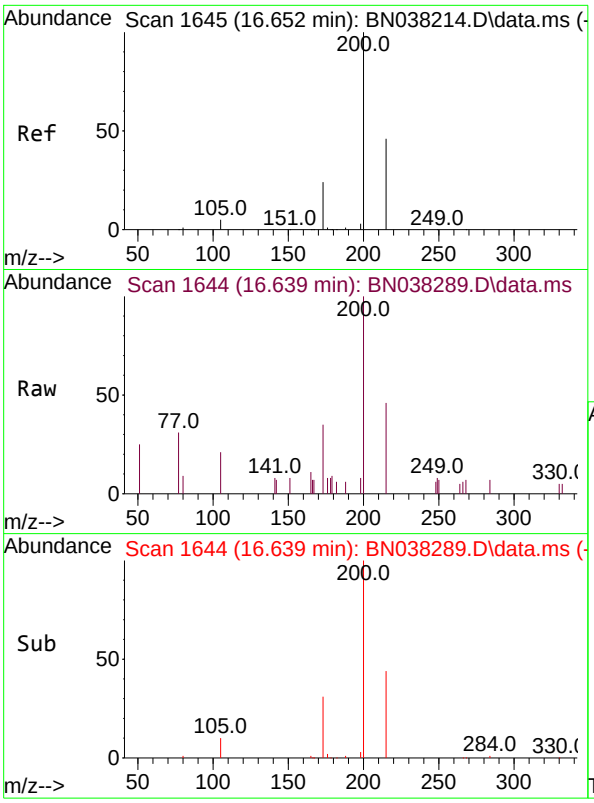


#22
Hexachlorobenzene
Concen: 0.396 ng
RT: 16.491 min Scan# 1632
Delta R.T. -0.000 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:284 Resp: 3789

Ion	Ratio	Lower	Upper
284	100		
142	36.9	30.5	45.7
249	29.8	23.8	35.8





#23
Atrazine
Concen: 0.388 ng
RT: 16.639 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:200 Resp: 192

Ion	Ratio	Lower	Upper
200	100		
173	35.1	21.0	31.6#
215	46.5	37.8	56.8

Instrument :
BNA_N
ClientSampleId :
PB170838BS

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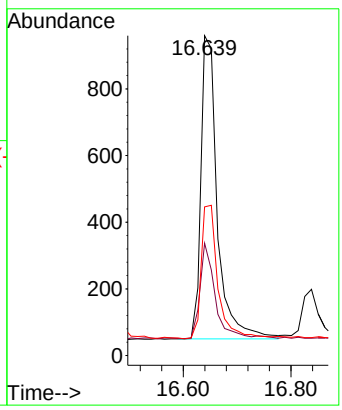
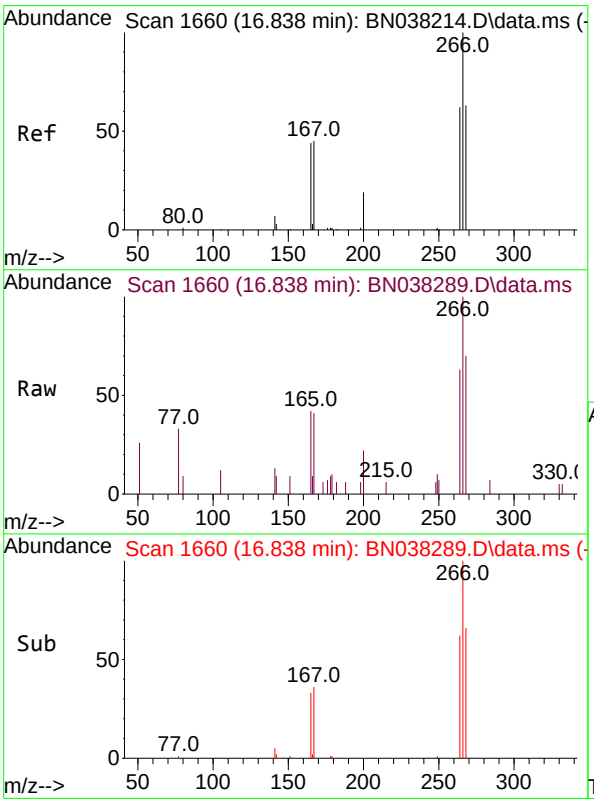
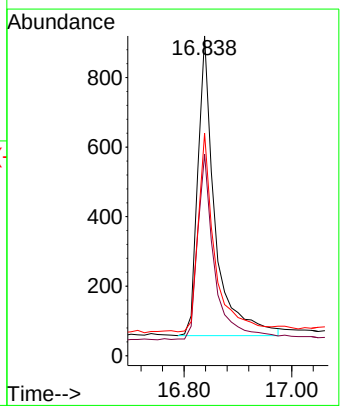


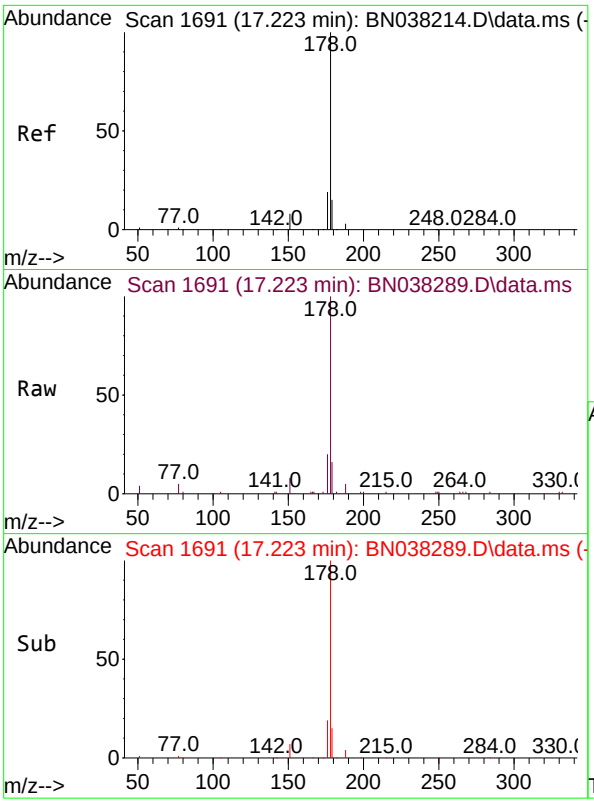


#24
Pentachlorophenol
Concen: 0.725 ng
RT: 16.838 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:266 Resp: 1901

Ion	Ratio	Lower	Upper
266	100		
264	61.2	48.9	73.3
268	66.3	50.2	75.2

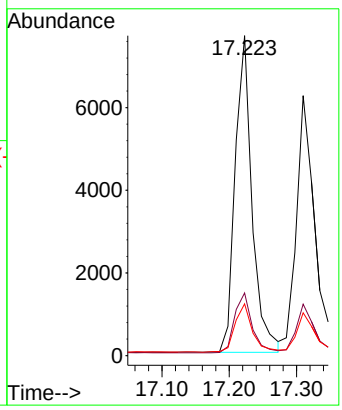




#25
Phenanthrene
Concen: 0.379 ng
RT: 17.223 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:178 Resp: 1335

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.3	22.9
179	15.7	12.0	18.0



Instrument :
BNA_N
ClientSampleId :
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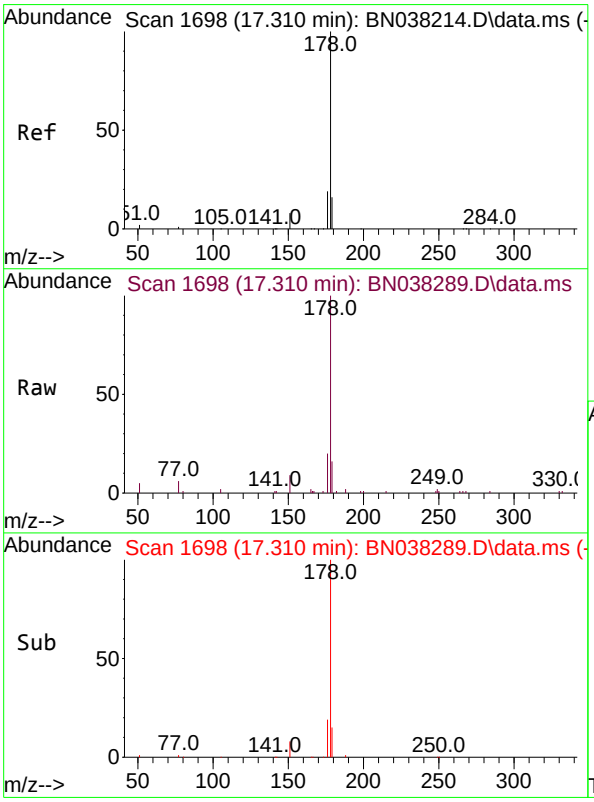
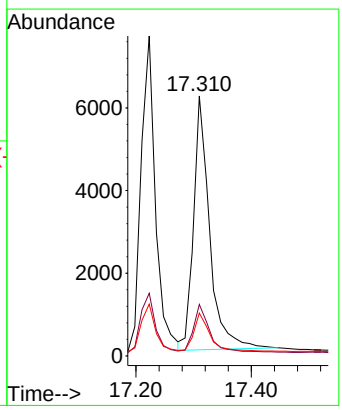
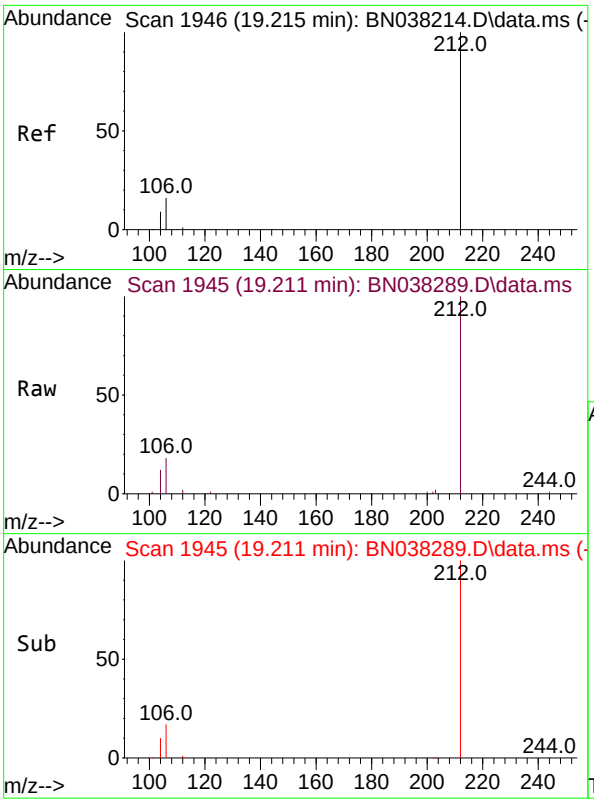


#26
Anthracene
Concen: 0.396 ng
RT: 17.310 min Scan# 1698
Delta R.T. -0.000 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:178 Resp: 11917

Ion	Ratio	Lower	Upper
178	100		
176	18.9	14.7	22.1
179	15.4	12.3	18.5

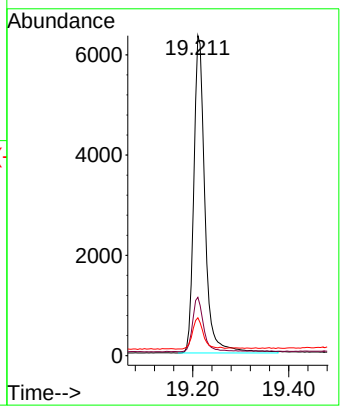




#27
Fluoranthene-d10
Concen: 0.417 ng
RT: 19.211 min Scan# 19
Delta R.T. -0.005 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:212 Resp: 10168

Ion	Ratio	Lower	Upper
212	100		
106	17.1	12.7	19.1
104	9.5	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
PB170838BS

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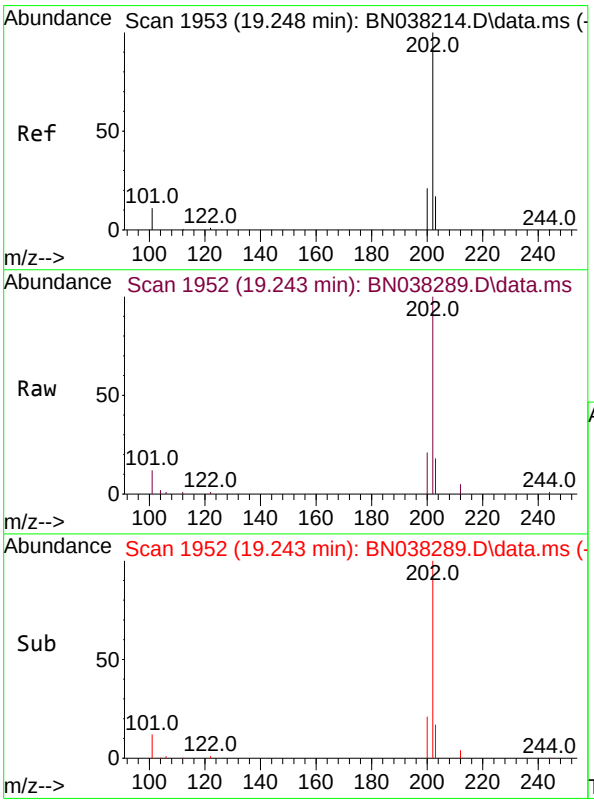
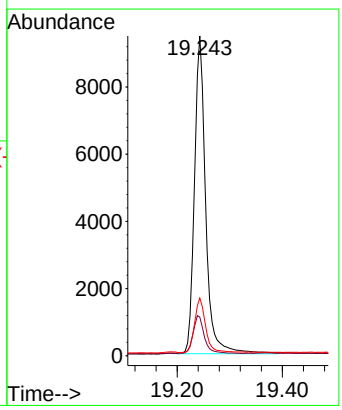
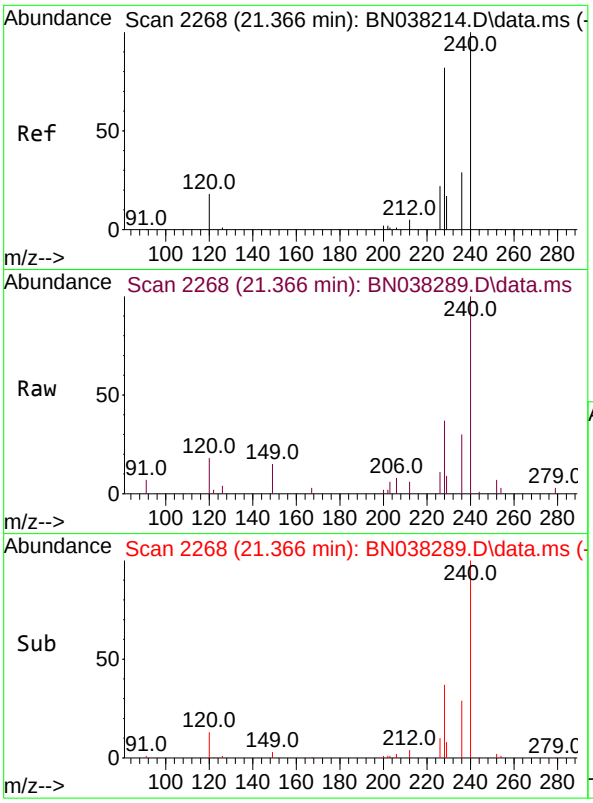


#28
Fluoranthene
Concen: 0.411 ng
RT: 19.243 min Scan# 1952
Delta R.T. -0.005 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:202 Resp: 13981

Ion	Ratio	Lower	Upper
202	100		
101	11.8	9.8	14.6
203	16.7	13.6	20.4

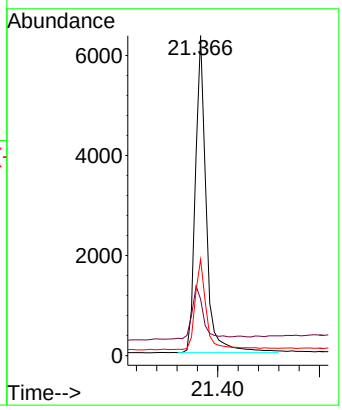




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.366 min Scan# 2
Delta R.T. -0.000 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:240 Resp: 938

Ion	Ratio	Lower	Upper
240	100		
120	17.6	18.1	27.1#
236	30.1	24.2	36.4



Instrument :
BNA_N
ClientSampleId :
PB170838BS

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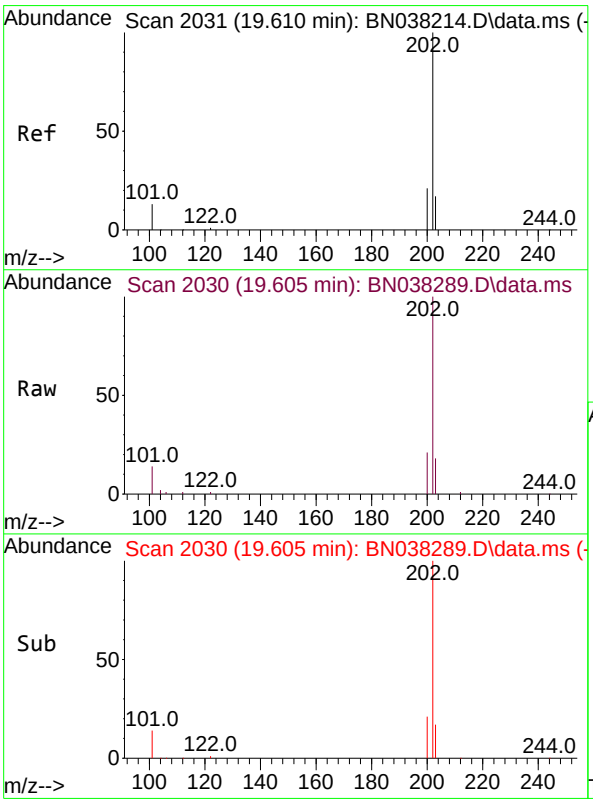
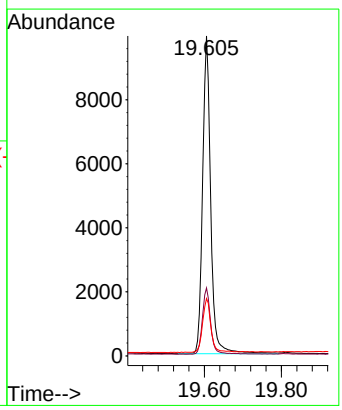
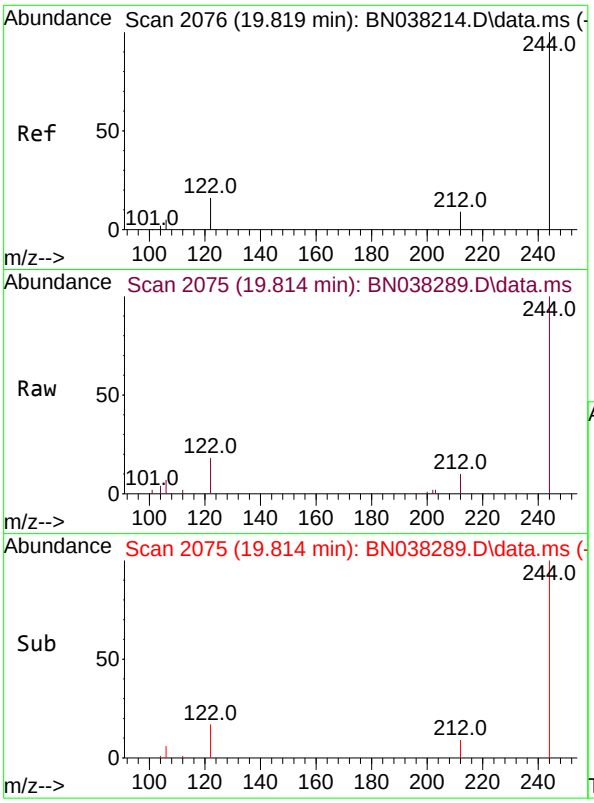


#30
Pyrene
Concen: 0.309 ng
RT: 19.605 min Scan# 2030
Delta R.T. -0.005 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:202 Resp: 14466

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	17.4	14.4	21.6

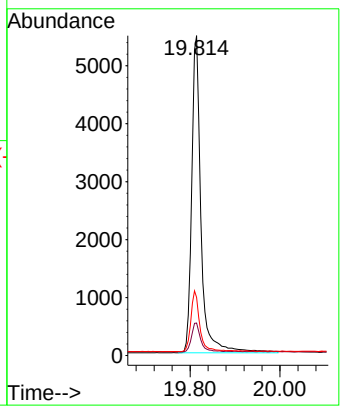




#31
Terphenyl-d14
Concen: 0.364 ng
RT: 19.814 min Scan# 2
Delta R.T. -0.005 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:244 Resp: 787

Ion	Ratio	Lower	Upper
244	100		
212	10.2	7.7	11.5
122	18.1	13.6	20.4



Instrument :
BNA_N
ClientSampleId :
PB170838BS

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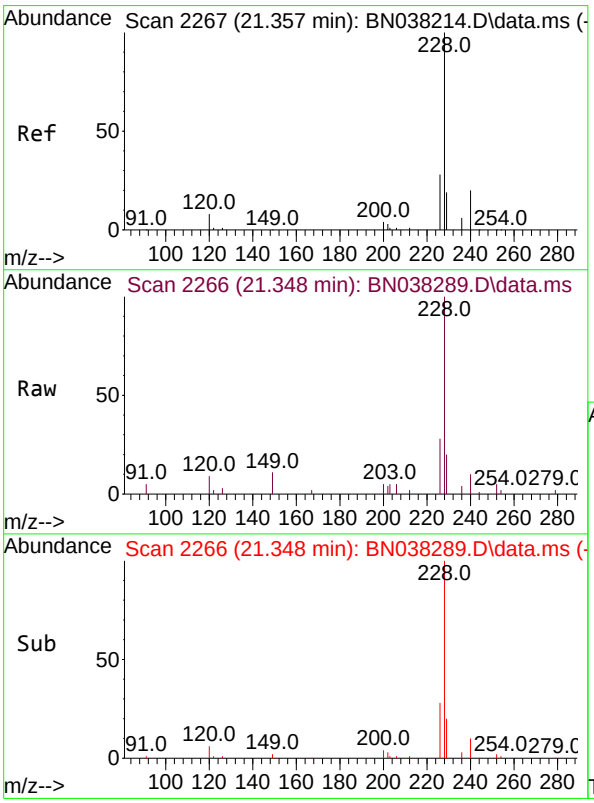
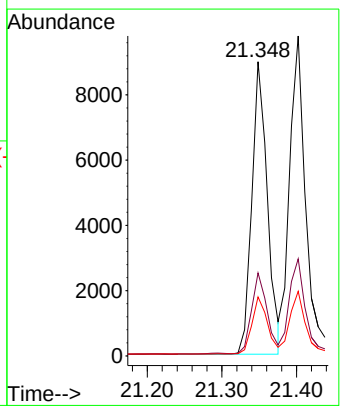
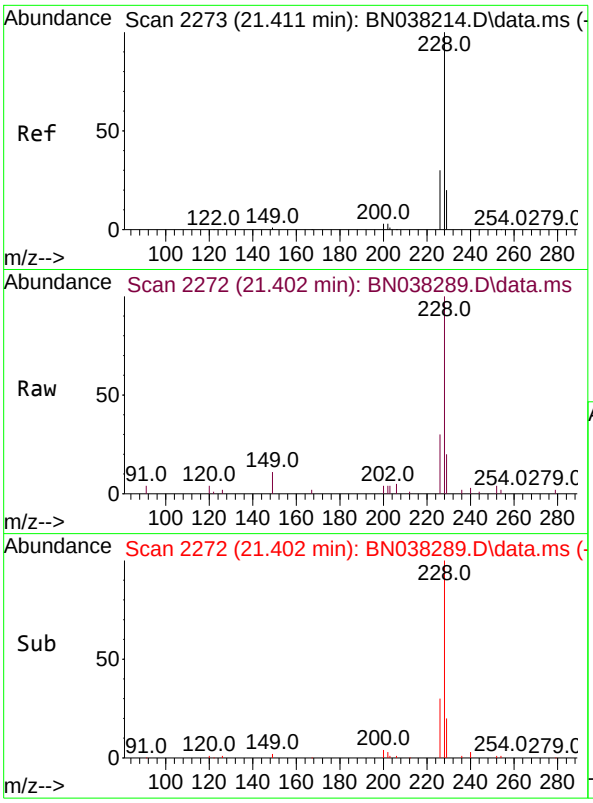


#32
Benzo(a)anthracene
Concen: 0.406 ng
RT: 21.348 min Scan# 2266
Delta R.T. -0.009 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:228 Resp: 12883

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.6	33.8
229	20.1	15.8	23.8

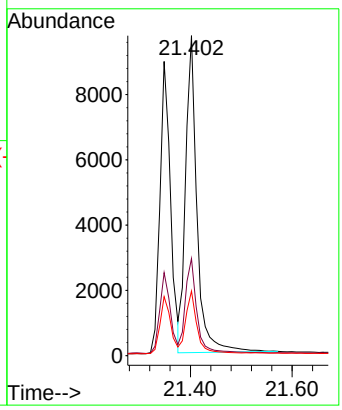




#33
Chrysene
Concen: 0.402 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:228 Resp: 1507

Ion	Ratio	Lower	Upper
228	100		
226	30.3	23.8	35.8
229	20.2	16.1	24.1



Instrument :
BNA_N
ClientSampleId :
PB170838BS

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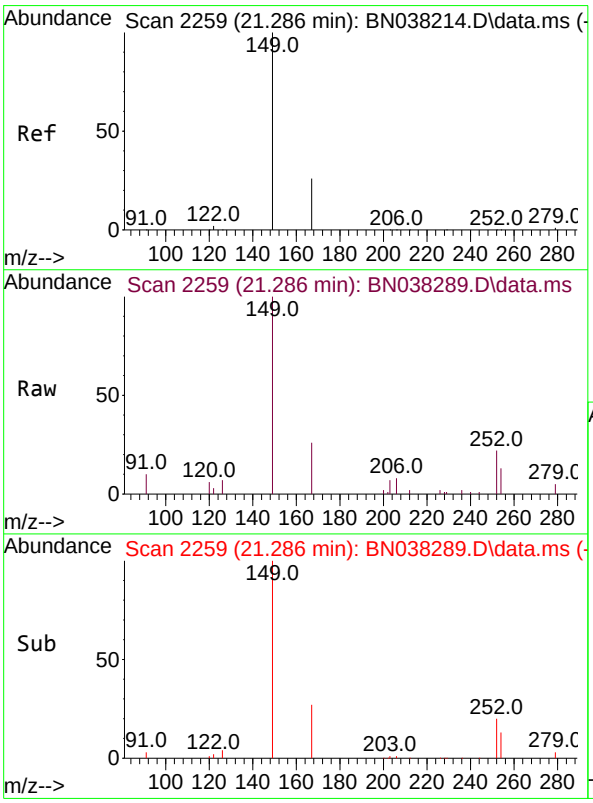
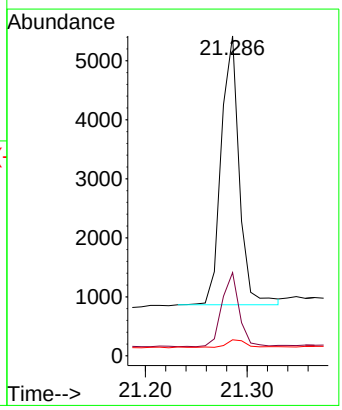
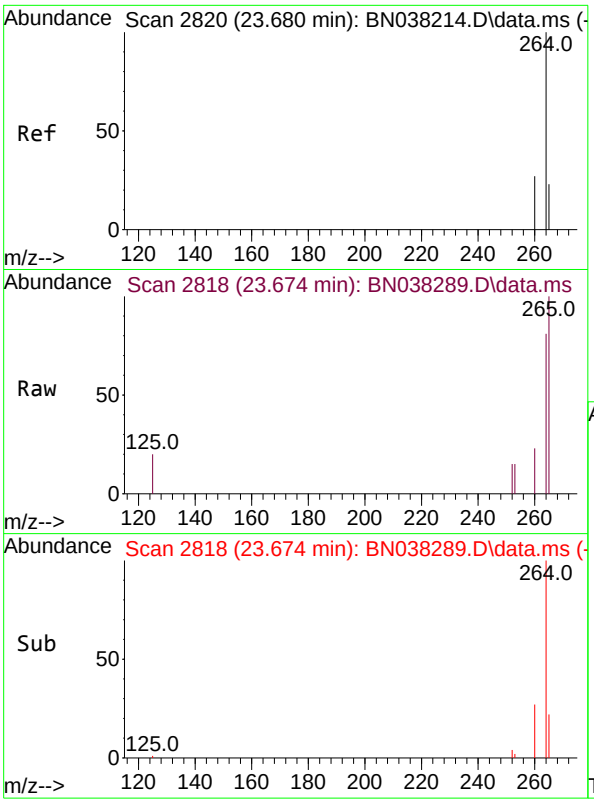


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.324 ng
RT: 21.286 min Scan# 2259
Delta R.T. -0.000 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:149 Resp: 5639

Ion	Ratio	Lower	Upper
149	100		
167	26.7	20.7	31.1
279	3.3	2.5	3.7

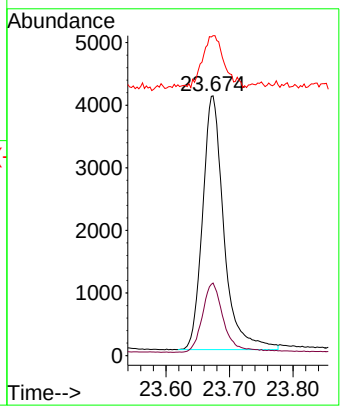




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.674 min Scan# 28
Delta R.T. -0.006 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:264 Resp: 946

Ion	Ratio	Lower	Upper
264	100		
260	27.9	21.7	32.5
265	123.2	98.0	147.0



Instrument :
BNA_N
ClientSampleId :
PB170838BS

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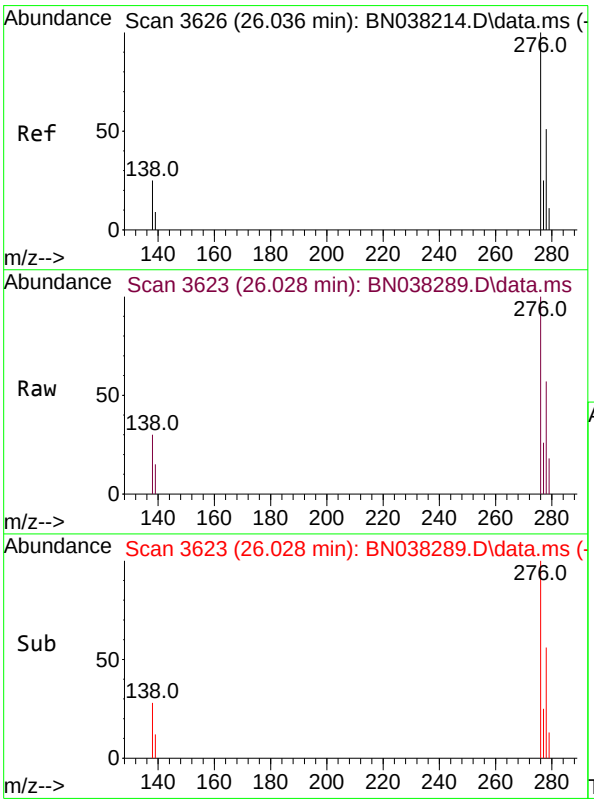
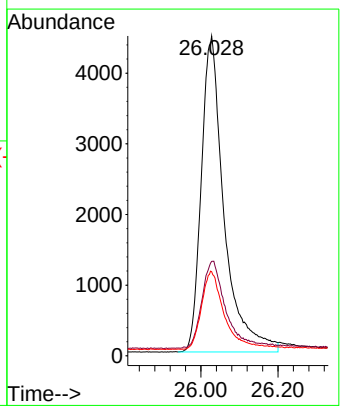
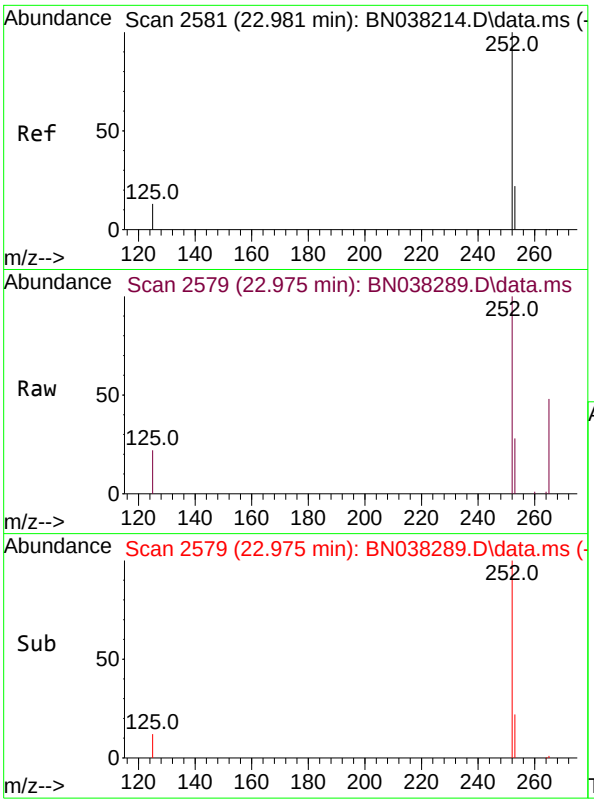


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.420 ng
RT: 26.028 min Scan# 3623
Delta R.T. -0.009 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:276 Resp: 18395

Ion	Ratio	Lower	Upper
276	100		
138	27.6	21.4	32.2
277	24.4	19.1	28.7





#37
Benzo(b)fluoranthene
Concen: 0.382 ng
RT: 22.975 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Instrument :
BNA_N
ClientSampleId :
PB170838BS

Tgt Ion:252 Resp: 1484

Ion	Ratio	Lower	Upper
252	100		
253	28.2	22.2	33.4
125	22.3	18.0	27.0

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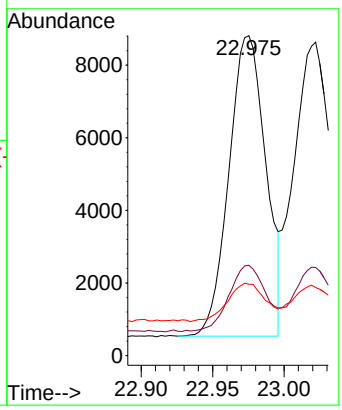
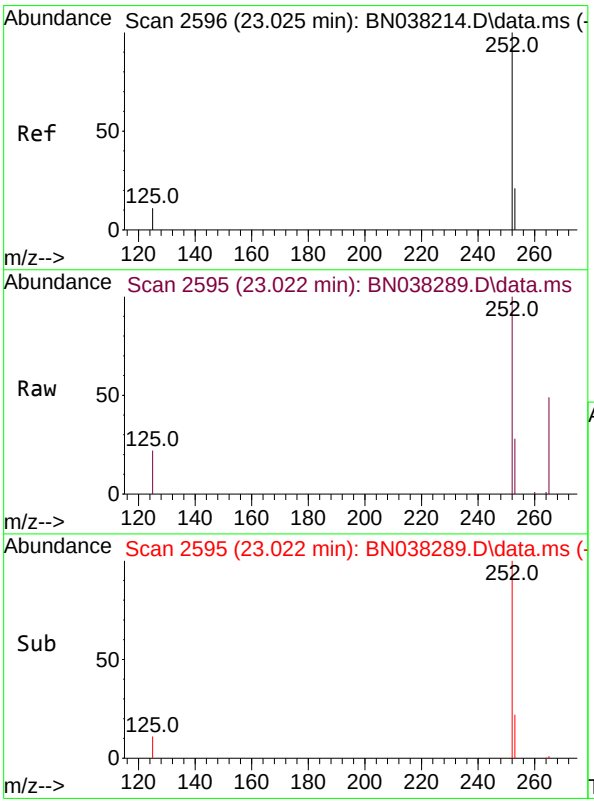
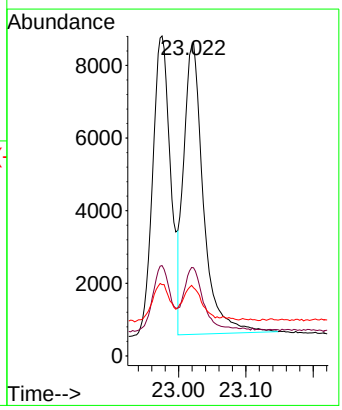


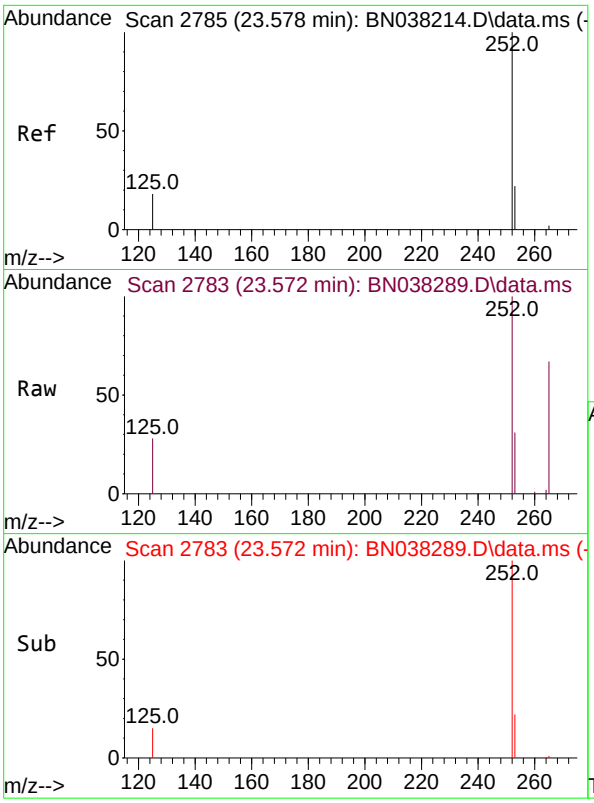


#38
Benzo(k)fluoranthene
Concen: 0.405 ng
RT: 23.022 min Scan# 2595
Delta R.T. -0.003 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:252 Resp: 16342

Ion	Ratio	Lower	Upper
252	100		
253	28.1	22.4	33.6
125	21.7	17.5	26.3

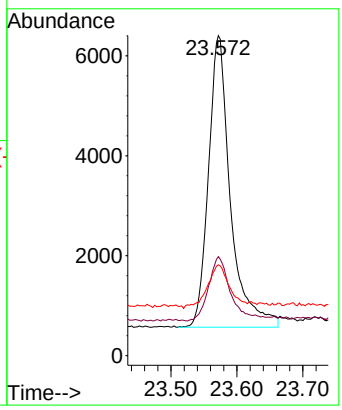




#39
Benzo(a)pyrene
Concen: 0.415 ng
RT: 23.572 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:252 Resp: 1352

Ion	Ratio	Lower	Upper
252	100		
253	30.9	25.3	37.9
125	28.4	25.2	37.8



Instrument :
BNA_N
ClientSampleId :
PB170838BS

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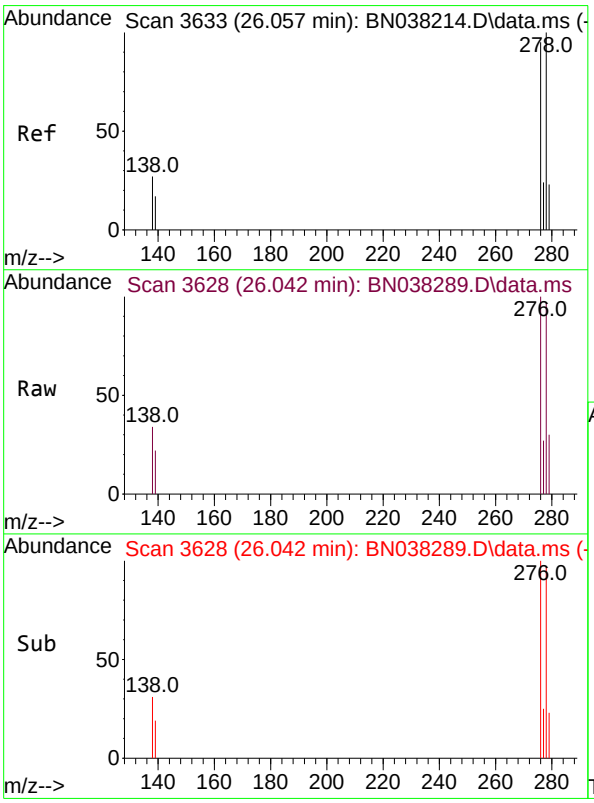
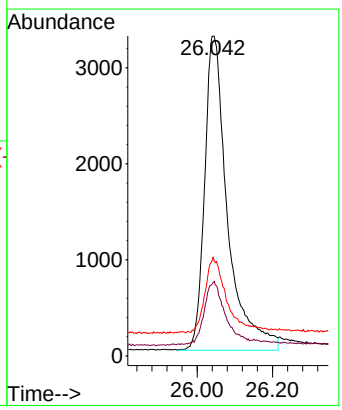
Supervised By :mohammad ahmed 12/09/2025

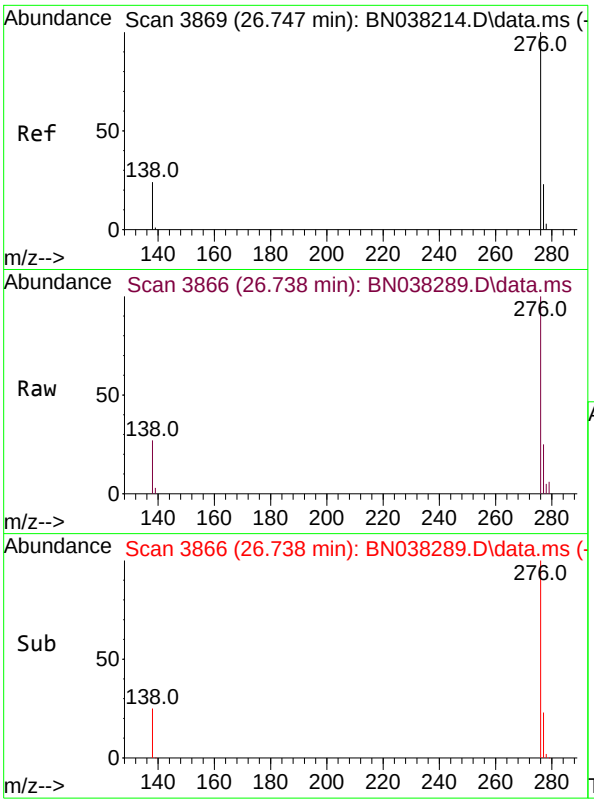


#40
Dibenzo(a,h)anthracene
Concen: 0.418 ng
RT: 26.042 min Scan# 3628
Delta R.T. -0.015 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:278 Resp: 13869

Ion	Ratio	Lower	Upper
278	100		
139	22.9	17.6	26.4
279	30.8	24.2	36.4

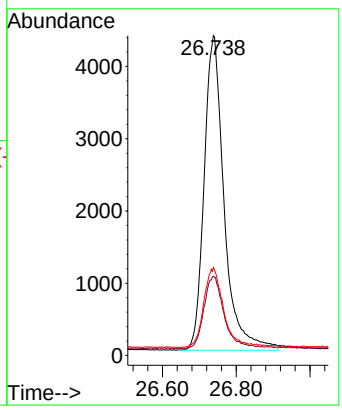




#41
Benzo(g,h,i)perylene
Concen: 0.413 ng
RT: 26.738 min Scan# 3
Delta R.T. -0.009 min
Lab File: BN038289.D
Acq: 06 Dec 2025 00:55

Tgt Ion:276 Resp: 1637

Ion	Ratio	Lower	Upper
276	100		
277	24.8	20.2	30.2
138	27.5	20.8	31.2



Instrument :
BNA_N
ClientSampleId :
PB170838BS

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025

Raw Data: **BN038290.D**

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

Report of Analysis

Client:	JACOBS Engineering Group, Inc.			Date Collected:	
Project:	Former Schlumberger STC PTC Site D3868221			Date Received:	
Client Sample ID:	PB170838BSD			SDG No.:	Q3756
Lab Sample ID:	PB170838BSD			Matrix:	Water
Analytical Method:	SW8270ESIM	Level:	LOW	% Solid:	0
Sample Wt/Vol:	1000 mL	Final Vol:	1000 uL	Test:	SVOC-SIMGroup1
Prep Method :	3510C	Prep Date:	12/05/25		

CAS Number	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Date Ana.	Prep BatchID
TARGETS									
123-91-1	1,4-Dioxane	0.31		1	0.070	0.20	ug/L	12/06/25 01:32	PB170838
SURROGATES									
7297-45-2	2-Methylnaphthalene-d10	0.34			30 (47) - 150 (106)	84%	SPK: 0.4		
93951-69-0	Fluoranthene-d10	0.39			30 (54) - 150 (157)	97%	SPK: 0.4		
4165-60-0	Nitrobenzene-d5	0.37			30 (56) - 130 (116)	91%	SPK: 0.4		
321-60-8	2-Fluorobiphenyl	0.40			30 (50) - 130 (126)	101%	SPK: 0.4		
1718-51-0	Terphenyl-d14	0.34			30 (54) - 130 (175)	84%	SPK: 0.4		
INTERNAL STANDARDS		**Area Count**							
3855-82-1	1,4-Dichlorobenzene-d4	6710							
1146-65-2	Naphthalene-d8	17800							
15067-26-2	Acenaphthene-d10	7710							
1517-22-2	Phenanthrene-d10	11000							
1719-03-5	Chrysene-d12	9170							
1520-96-3	Perylene-d12	9320							

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\BN120625\
Data File : BN038290.D
Acq On : 06 Dec 2025 01:32
Operator : RC/JU
Sample : PB170838BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 06 03:22:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration

Instrument :
BNA_N
ClientSampleId :
PB170838BSD

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.761	152	6710	0.400	ng	0.00
7) Naphthalene-d8	10.562	136	17808	0.400	ng	-0.01
13) Acenaphthene-d10	14.420	164	7711	0.400	ng	-0.01
19) Phenanthrene-d10	17.173	188	11030	0.400	ng	#-0.01
29) Chrysene-d12	21.367	240	9170	0.400	ng	0.00
35) Perylene-d12	23.674	264	9318	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.334	112	5574	0.355	ng	0.00
5) Phenol-d6	6.930	99	6244	0.319	ng	0.00
8) Nitrobenzene-d5	8.907	82	5209	0.366	ng	-0.01
11) 2-Methylnaphthalene-d10	12.162	152	8483m	0.336	ng	0.00
14) 2,4,6-Tribromophenol	15.932	330	753	0.310	ng	0.00
15) 2-Fluorobiphenyl	13.041	172	12021	0.404	ng	-0.01
27) Fluoranthene-d10	19.211	212	9232	0.386	ng	0.00
31) Terphenyl-d14	19.815	244	7154	0.338	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.254	88	2191	0.310	ng	# 46
3) n-Nitrosodimethylamine	3.557	42	2989	0.343	ng	96
6) bis(2-Chloroethyl)ether	7.183	93	6324	0.337	ng	97
9) Naphthalene	10.605	128	17110	0.346	ng	99
10) Hexachlorobutadiene	10.904	225	3172	0.377	ng	# 98
12) 2-Methylnaphthalene	12.233	142	9566	0.294	ng	99
16) Acenaphthylene	14.142	152	13059	0.379	ng	99
17) Acenaphthene	14.484	154	7931	0.330	ng	98
18) Fluorene	15.478	166	9500	0.305	ng	98
20) 4,6-Dinitro-2-methylph...	15.572	198	206	0.347	ng	# 64
21) 4-Bromophenyl-phenylether	16.379	248	2578	0.337	ng	99
22) Hexachlorobenzene	16.491	284	3363	0.358	ng	97
23) Atrazine	16.640	200	1714	0.351	ng	# 91
24) Pentachlorophenol	16.838	266	1688	0.655	ng	99
25) Phenanthrene	17.223	178	11833	0.342	ng	99
26) Anthracene	17.310	178	10550	0.357	ng	100
28) Fluoranthene	19.243	202	12671	0.380	ng	99
30) Pyrene	19.606	202	13070	0.285	ng	100
32) Benzo(a)anthracene	21.349	228	11259	0.363	ng	99
33) Chrysene	21.402	228	13503	0.368	ng	99
34) Bis(2-ethylhexyl)phtha...	21.286	149	5015	0.295	ng	98
36) Indeno(1,2,3-cd)pyrene	26.028	276	16471	0.382	ng	99
37) Benzo(b)fluoranthene	22.976	252	13219	0.346	ng	97
38) Benzo(k)fluoranthene	23.022	252	14429	0.363	ng	97
39) Benzo(a)pyrene	23.569	252	11901	0.371	ng	98
40) Dibenzo(a,h)anthracene	26.045	278	12263	0.376	ng	99
41) Benzo(g,h,i)perylene	26.738	276	14353	0.368	ng	97

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN120625\
Data File : BN038290.D
Acq On : 06 Dec 2025 01:32
Operator : RC/JU
Sample : PB170838BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 06 03:22:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN112725.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Nov 28 21:04:10 2025
Response via : Initial Calibration

Instrument :
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ClientSampleId :
PB170838BSD

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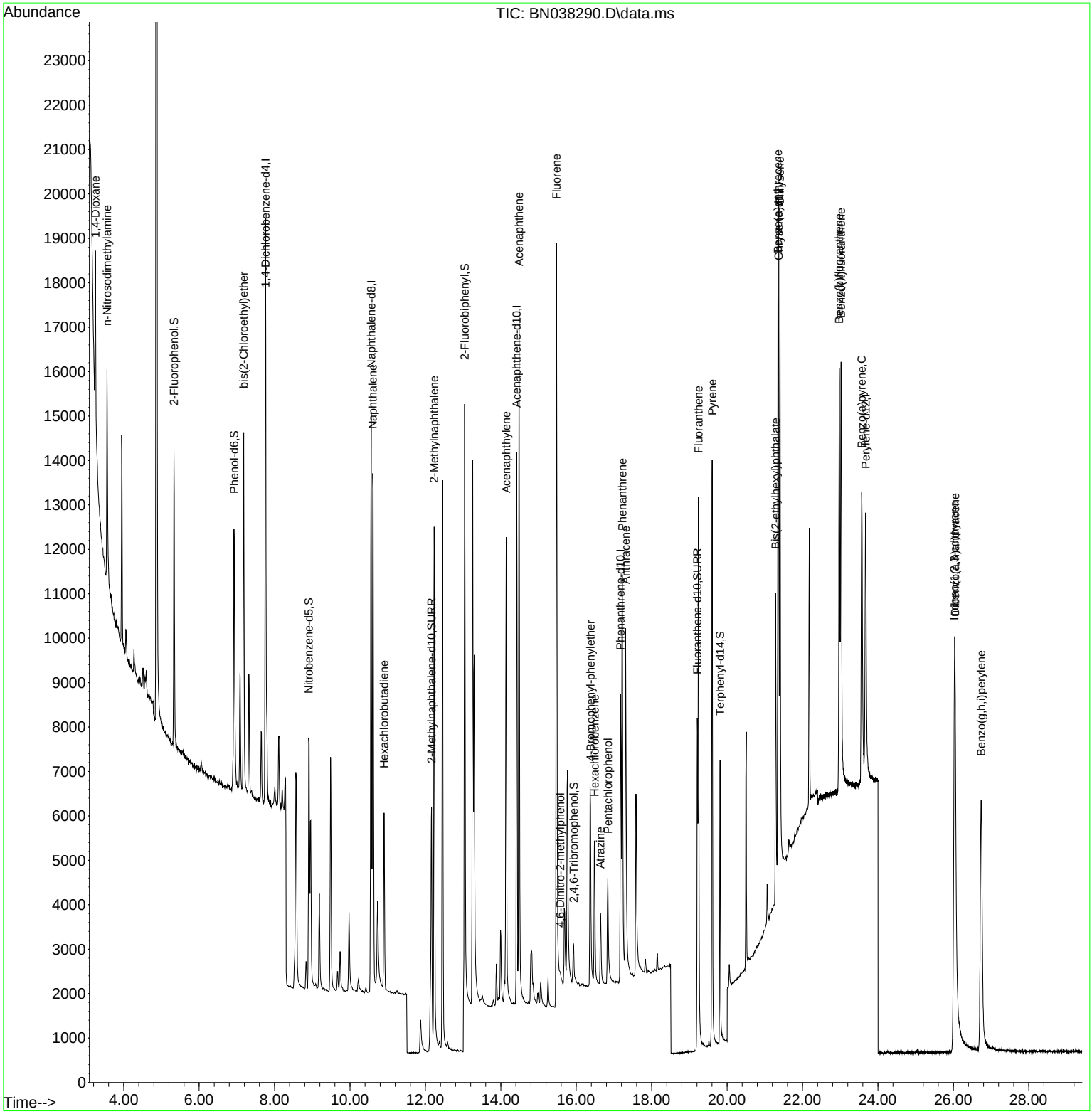
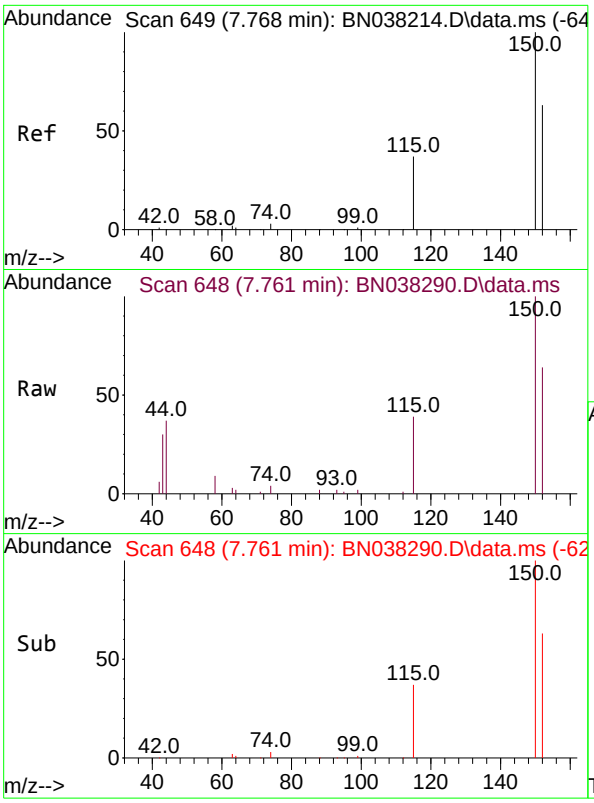
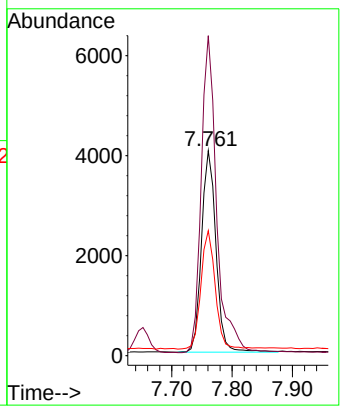




#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.761 min Scan# 64
Delta R.T. -0.007 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:152 Resp: 671

Ion	Ratio	Lower	Upper
152	100		
150	156.2	125.3	187.9
115	60.9	49.0	73.4



Instrument :
BNA_N
ClientSampleId :
PB170838BSD

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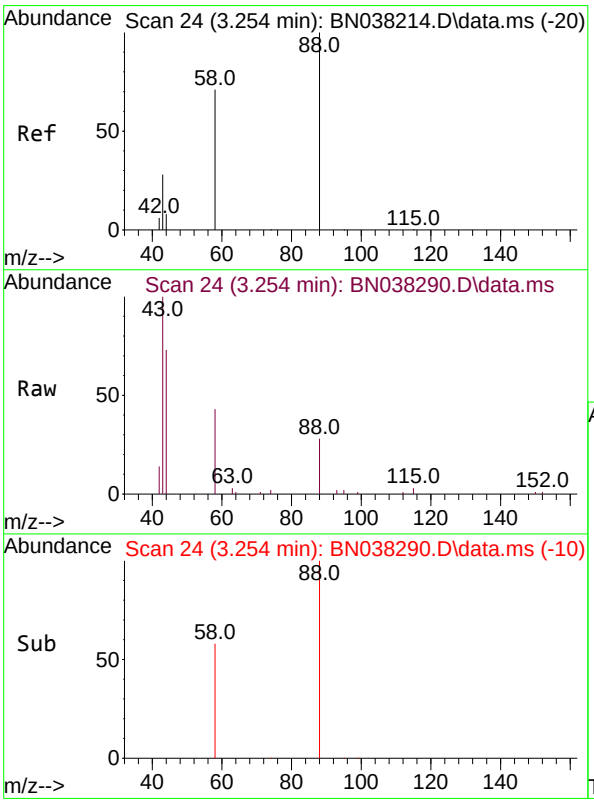
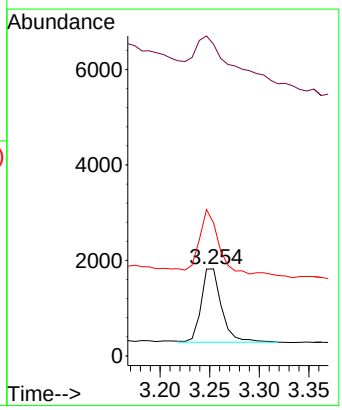
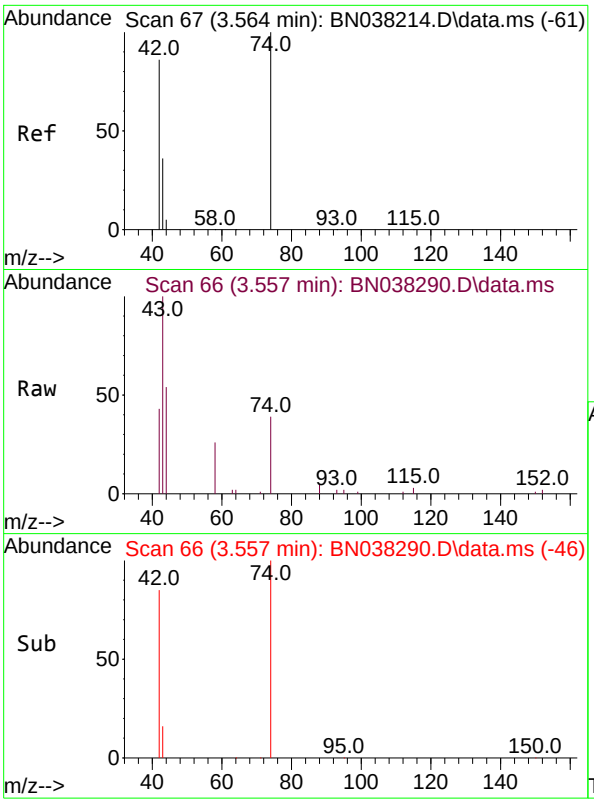


#2
1,4-Dioxane
Concen: 0.310 ng
RT: 3.254 min Scan# 24
Delta R.T. 0.000 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion: 88 Resp: 2191

Ion	Ratio	Lower	Upper
88	100		
43	112.0	24.8	37.2#
58	90.0	61.1	91.7





#3
n-Nitrosodimethylamine
Concen: 0.343 ng
RT: 3.557 min Scan# 6
Delta R.T. -0.007 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion: 42 Resp: 298

Ion	Ratio	Lower	Upper
42	100		
74	125.3	96.2	144.2
44	9.2	8.0	12.0

Instrument :
BNA_N
ClientSampleId :
PB170838BSD

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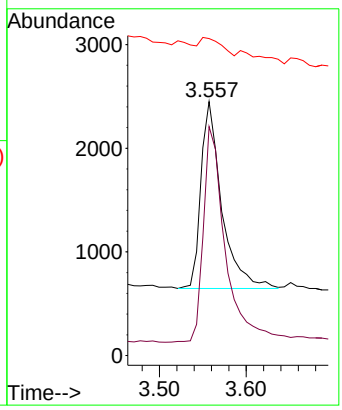
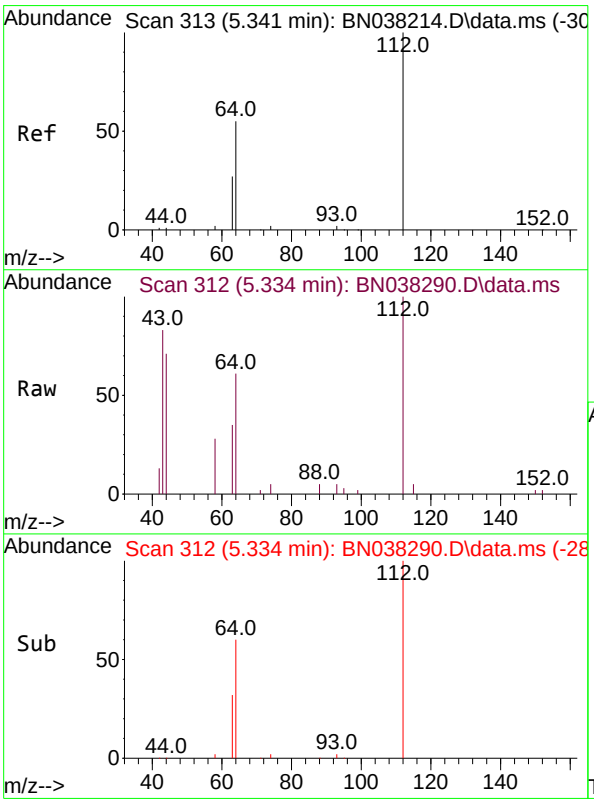
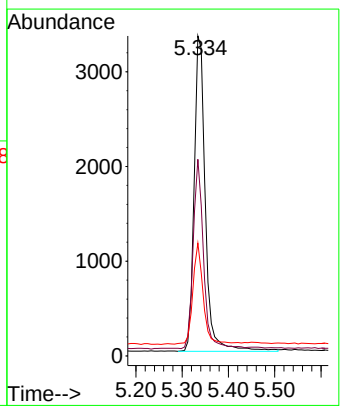


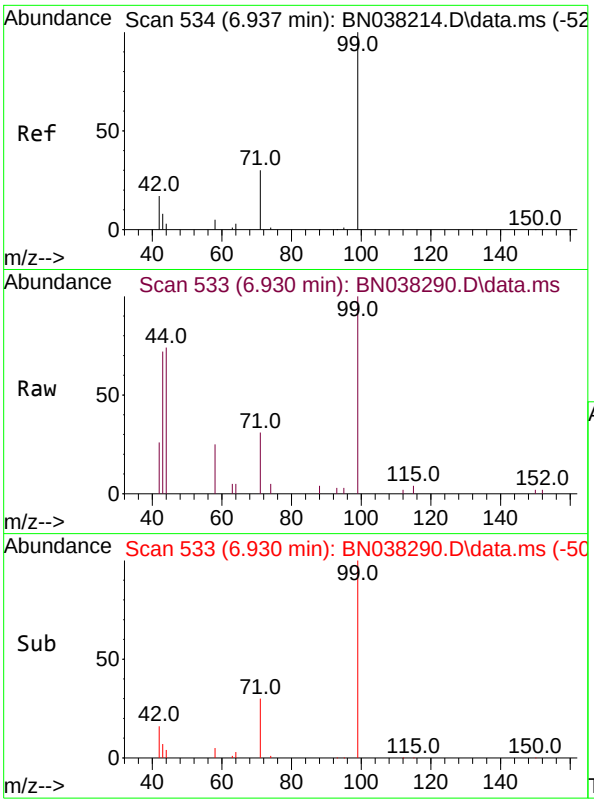


#4
2-Fluorophenol
Concen: 0.355 ng
RT: 5.334 min Scan# 312
Delta R.T. -0.007 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:112 Resp: 5574

Ion	Ratio	Lower	Upper
112	100		
64	55.1	45.0	67.4
63	29.3	23.2	34.8

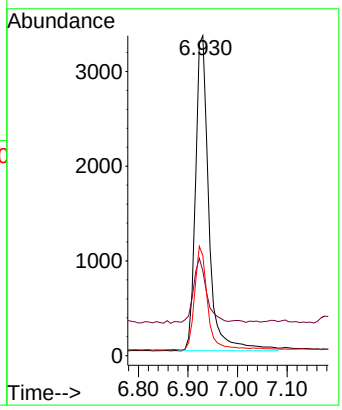




#5
Phenol-d6
Concen: 0.319 ng
RT: 6.930 min Scan# 5
Delta R.T. -0.007 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion: 99 Resp: 624

Ion	Ratio	Lower	Upper
99	100		
42	20.8	17.0	25.6
71	31.7	25.4	38.2



Instrument :
BNA_N
ClientSampleId :
PB170838BSD

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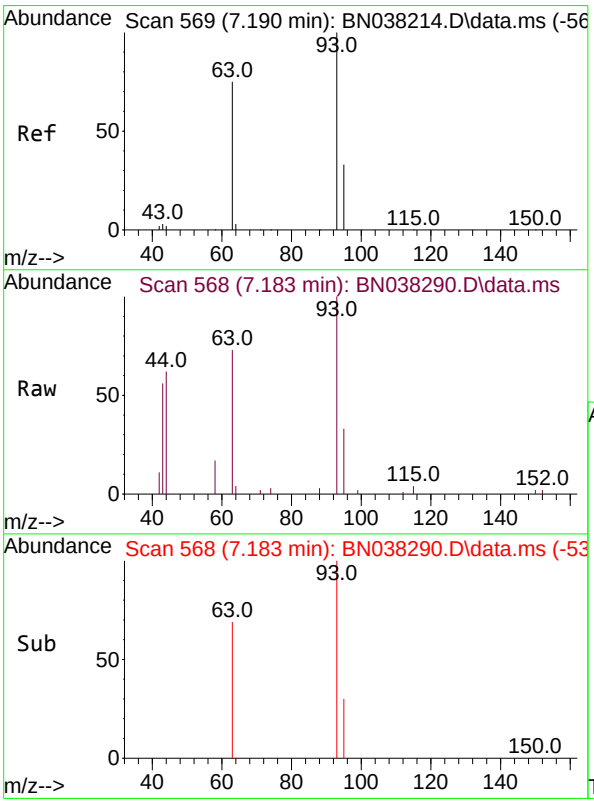
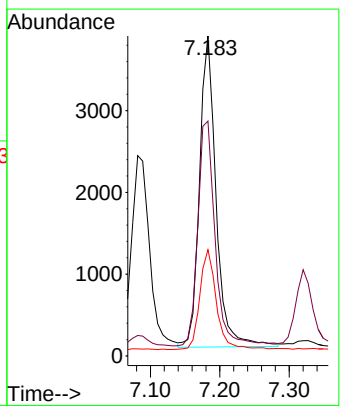
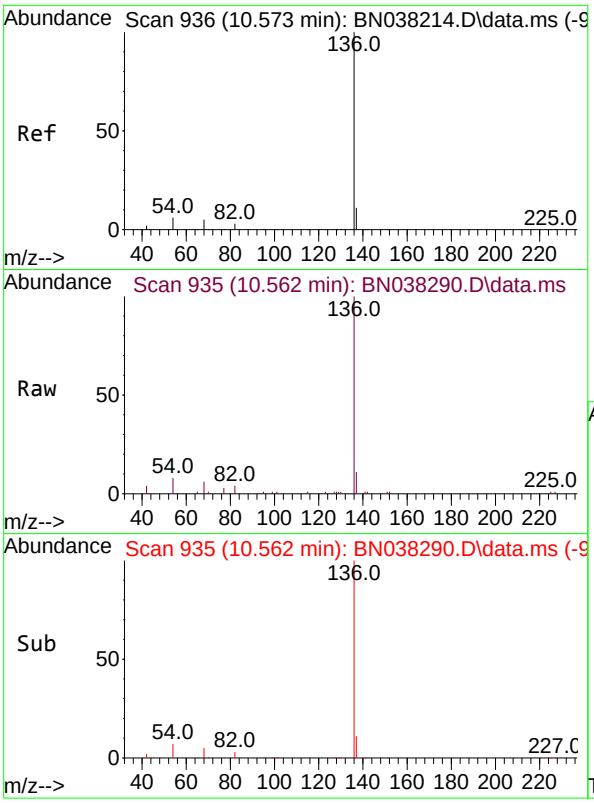


#6
bis(2-Chloroethyl)ether
Concen: 0.337 ng
RT: 7.183 min Scan# 568
Delta R.T. -0.007 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion: 93 Resp: 6324

Ion	Ratio	Lower	Upper
93	100		
63	75.7	58.1	87.1
95	32.3	25.1	37.7

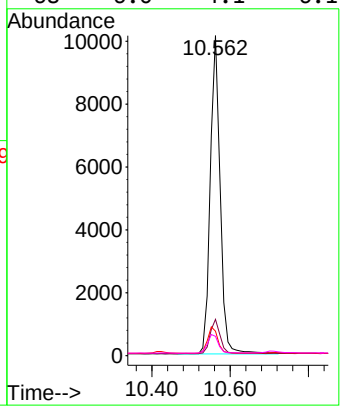




#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.562 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:136 Resp: 1780

Ion	Ratio	Lower	Upper
136	100		
137	11.3	8.9	13.3
54	7.6	5.4	8.0
68	6.0	4.1	6.1



Instrument :
BNA_N
ClientSampleId :
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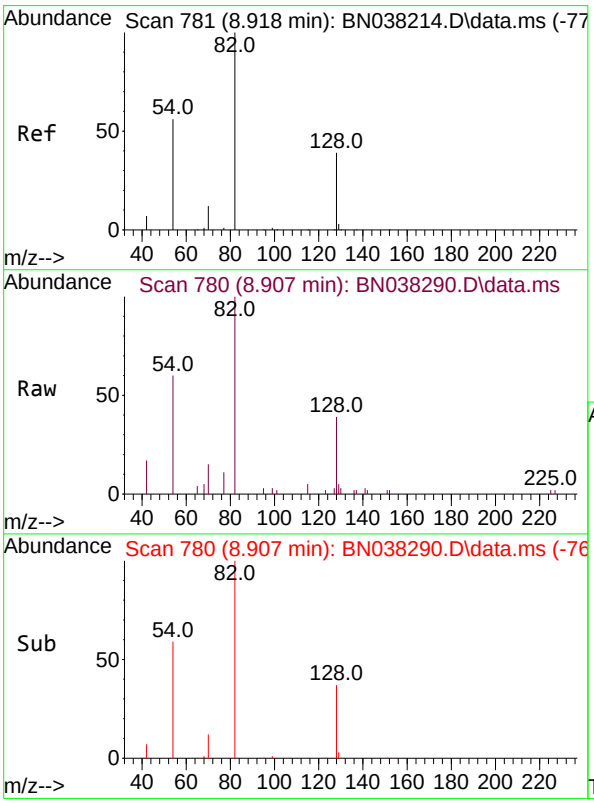
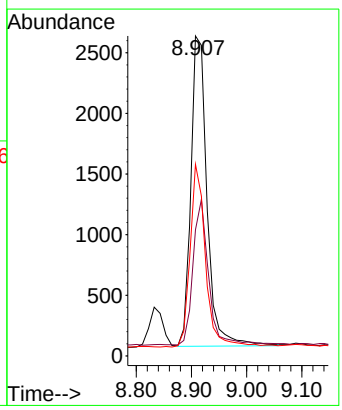
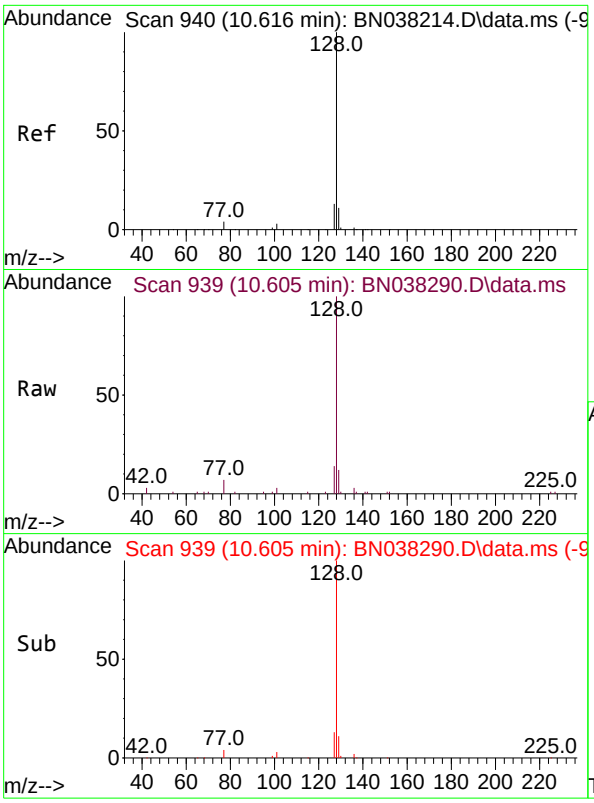


#8
Nitrobenzene-d5
Concen: 0.366 ng
RT: 8.907 min Scan# 780
Delta R.T. -0.011 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion: 82 Resp: 5209

Ion	Ratio	Lower	Upper
82	100		
128	39.4	32.6	48.8
54	59.9	45.4	68.0

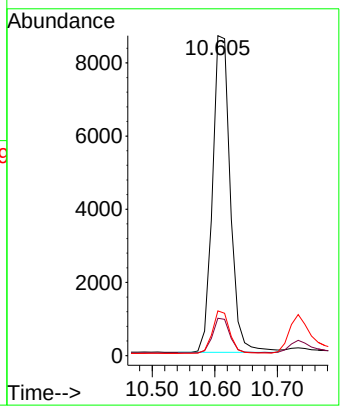




#9
Naphthalene
Concen: 0.346 ng
RT: 10.605 min Scan# 9
Delta R.T. -0.011 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:128 Resp: 1711

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.1	13.7
127	14.0	10.6	16.0



Instrument :
BNA_N
ClientSampleId :
PB170838BSD

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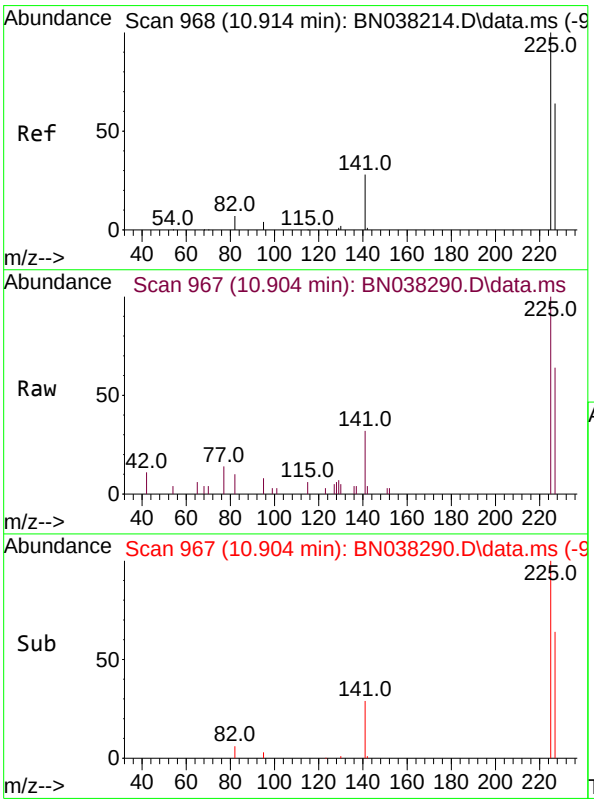
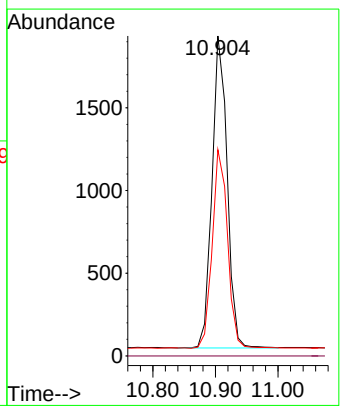
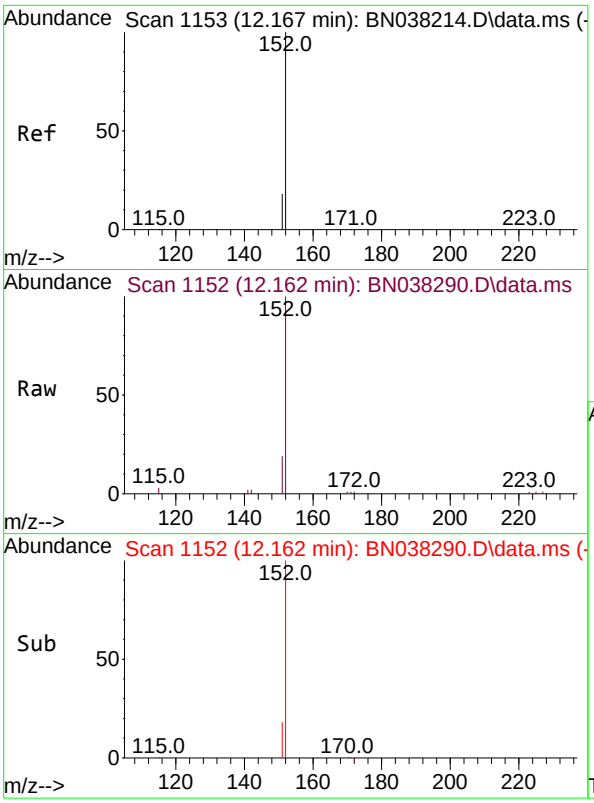


#10
Hexachlorobutadiene
Concen: 0.377 ng
RT: 10.904 min Scan# 967
Delta R.T. -0.011 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:225 Resp: 3172

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.7	50.5	75.7

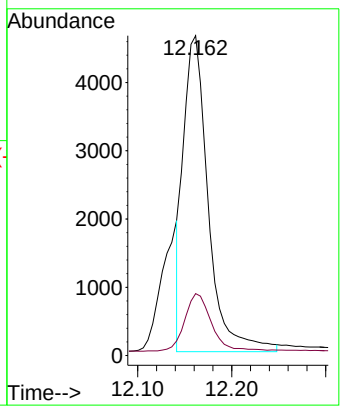




#11
2-Methylnaphthalene-d10
Concen: 0.336 ng m
RT: 12.162 min Scan# 11
Delta R.T. -0.005 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:152 Resp: 848

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.7	25.1



Instrument :
BNA_N
ClientSampleId :
PB170838BSD

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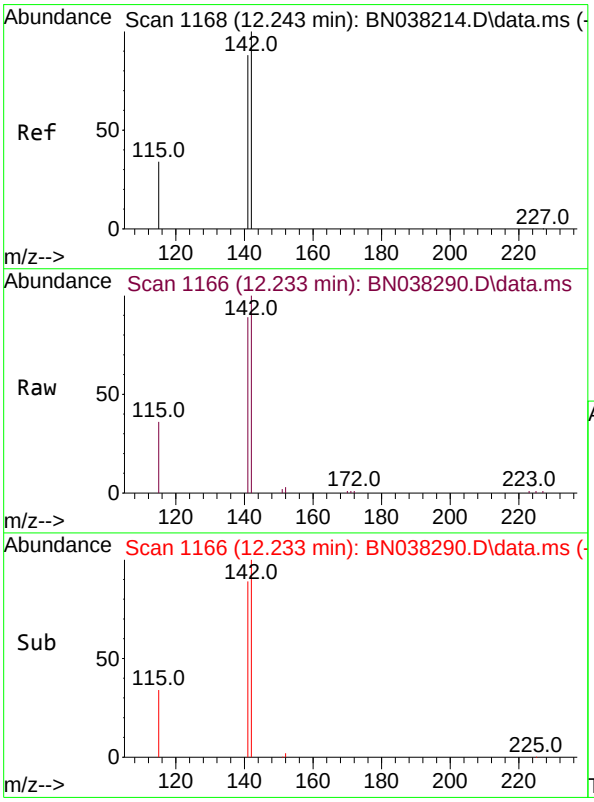
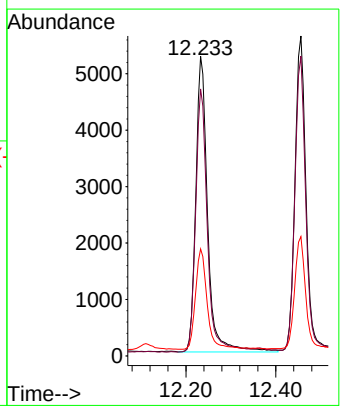
Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025

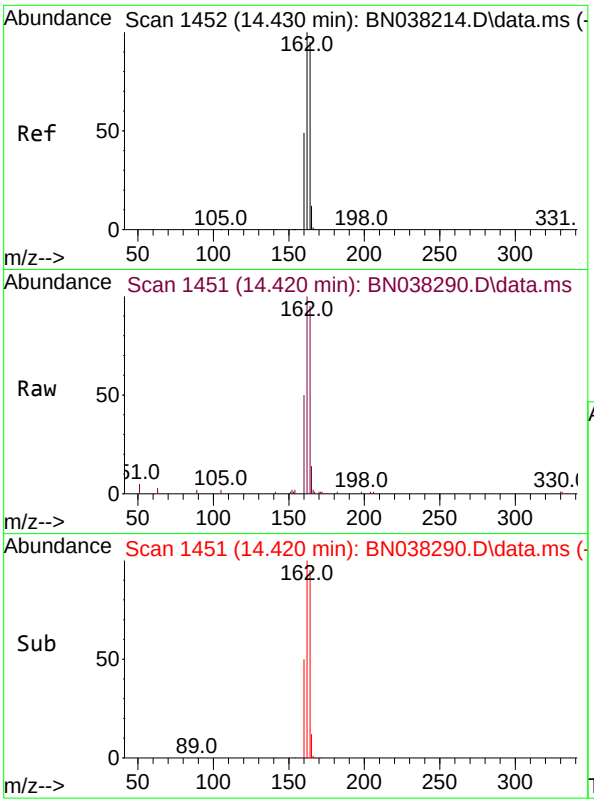


#12
2-Methylnaphthalene
Concen: 0.294 ng
RT: 12.233 min Scan# 1166
Delta R.T. -0.010 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:142 Resp: 9566

Ion	Ratio	Lower	Upper
142	100		
141	89.0	70.9	106.3
115	35.7	27.7	41.5

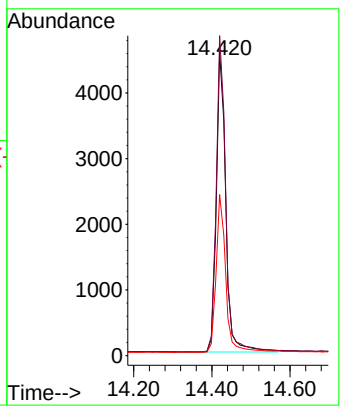




#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.420 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:164 Resp: 771

Ion	Ratio	Lower	Upper
164	100		
162	105.4	83.8	125.8
160	53.1	41.6	62.4



Instrument :
BNA_N
ClientSampleId :
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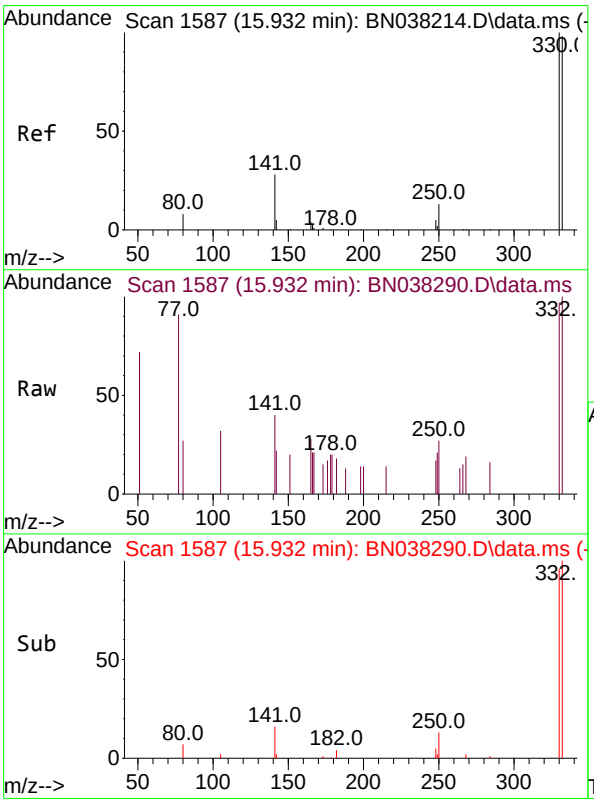
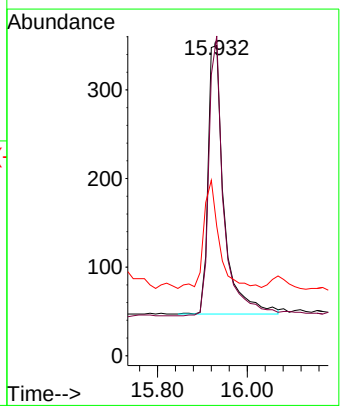
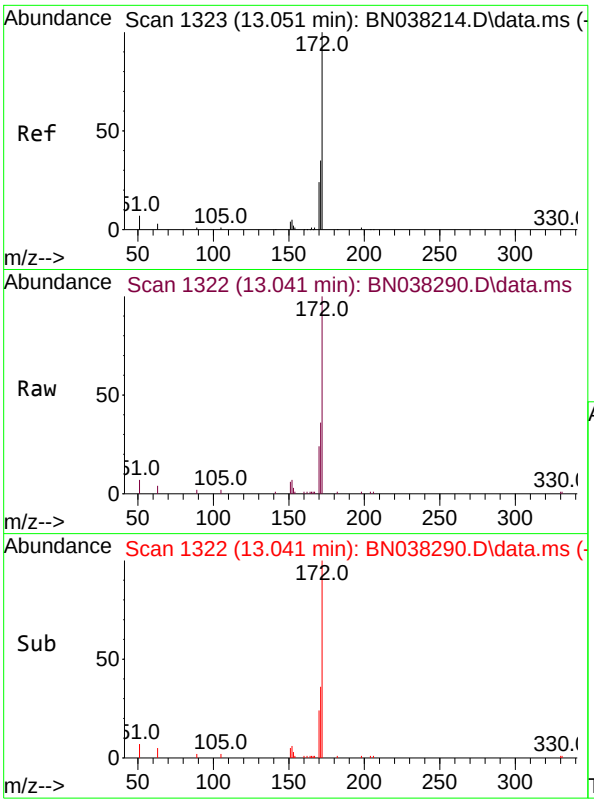


#14
2,4,6-Tribromophenol
Concen: 0.310 ng
RT: 15.932 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:330 Resp: 753

Ion	Ratio	Lower	Upper
330	100		
332	97.5	77.8	116.6
141	38.9	33.0	49.4

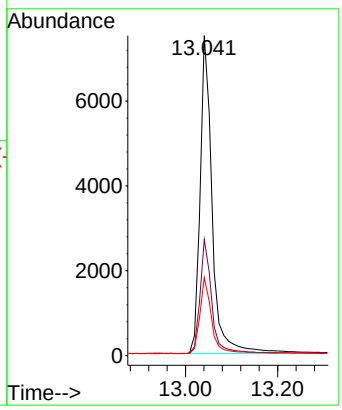




#15
2-Fluorobiphenyl
Concen: 0.404 ng
RT: 13.041 min Scan# 1
Delta R.T. -0.010 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:172 Resp: 1202

Ion	Ratio	Lower	Upper
172	100		
171	36.3	28.1	42.1
170	24.4	19.1	28.7



Instrument :
BNA_N
ClientSampleId :
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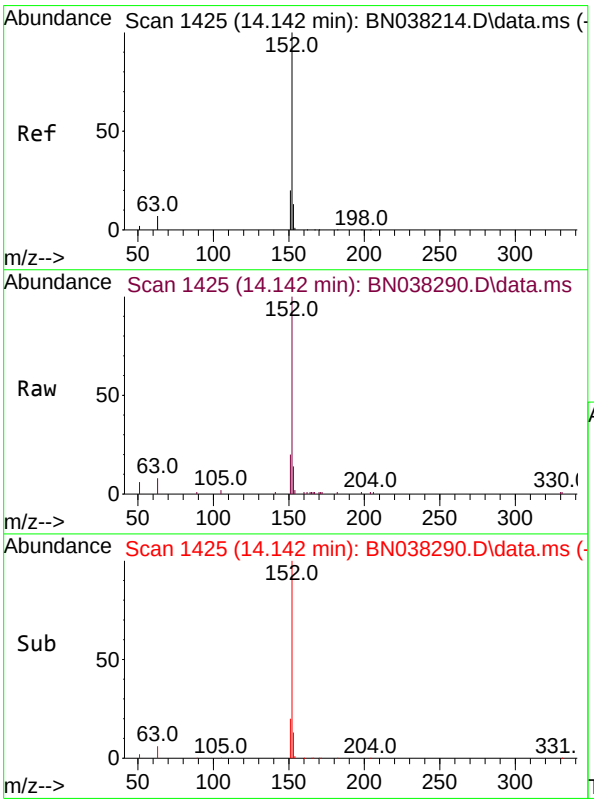
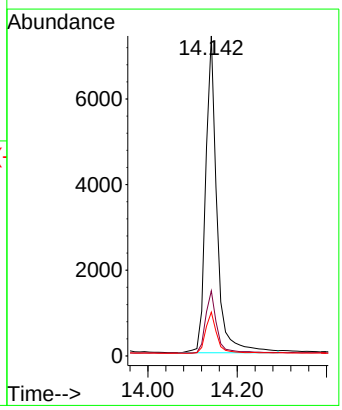
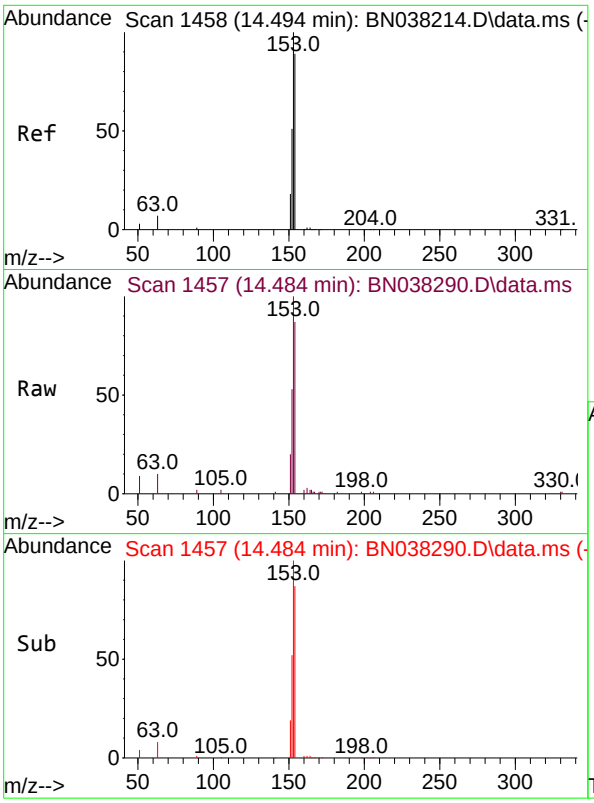


#16
Acenaphthylene
Concen: 0.379 ng
RT: 14.142 min Scan# 1425
Delta R.T. 0.000 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:152 Resp: 13059

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.6	23.4
153	13.2	10.6	15.8

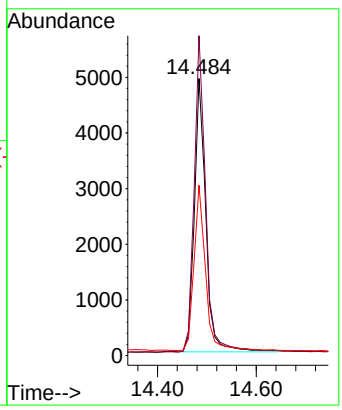




#17
Acenaphthene
Concen: 0.330 ng
RT: 14.484 min Scan# 14
Delta R.T. -0.011 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:154 Resp: 7931

Ion	Ratio	Lower	Upper
154	100		
153	116.3	91.1	136.7
152	60.5	48.2	72.2



Instrument :
BNA_N
ClientSampleId :
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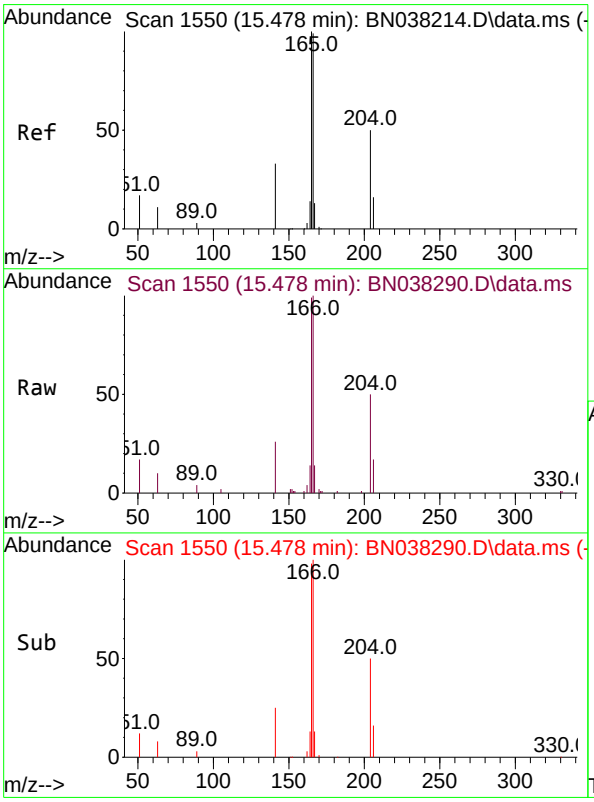
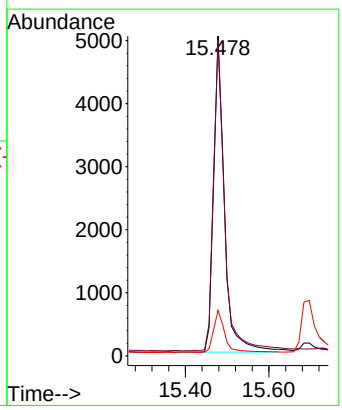
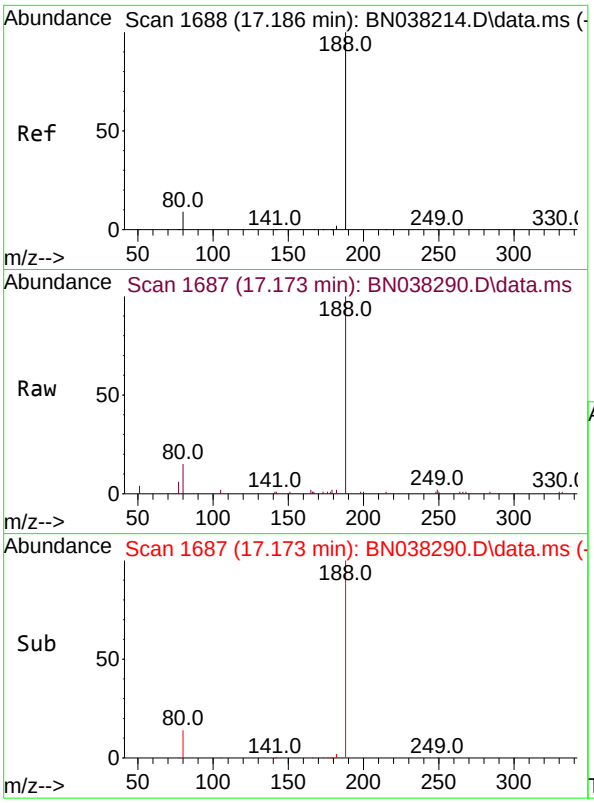


#18
Fluorene
Concen: 0.305 ng
RT: 15.478 min Scan# 1550
Delta R.T. 0.000 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:166 Resp: 9500

Ion	Ratio	Lower	Upper
166	100		
165	100.4	78.7	118.1
167	13.9	10.9	16.3

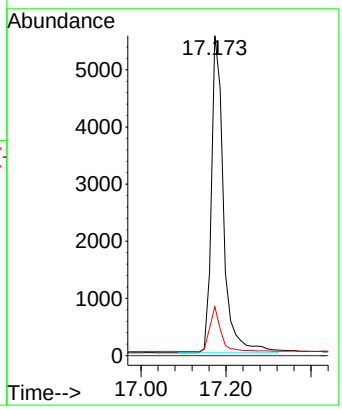




#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 17.173 min Scan# 1
Delta R.T. -0.012 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:188 Resp: 1103

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	15.3	7.7	11.5#



Instrument :
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ClientSampleId :
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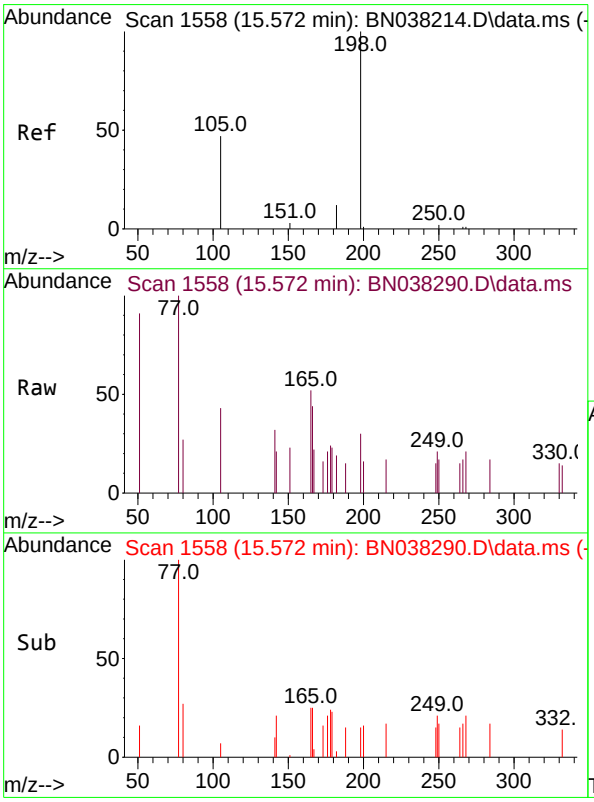
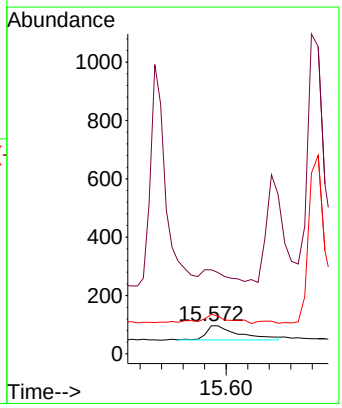
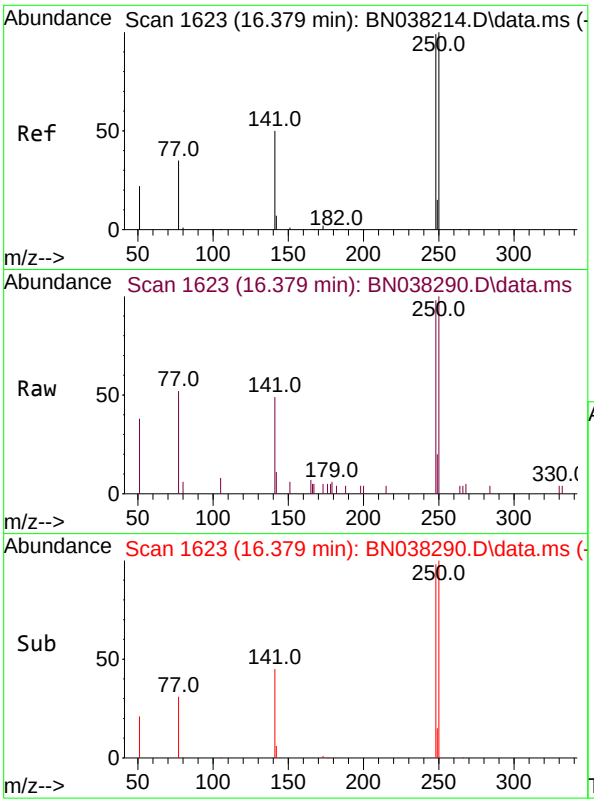


#20
4,6-Dinitro-2-methylphenol
Concen: 0.347 ng
RT: 15.572 min Scan# 1558
Delta R.T. 0.000 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:198 Resp: 206

Ion	Ratio	Lower	Upper
198	100		
51	300.0	205.1	307.7
105	140.6	61.6	92.4#

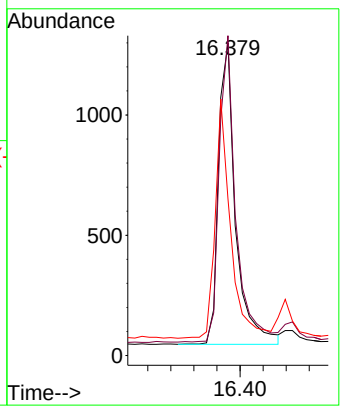




#21
4-Bromophenyl-phenylether
Concen: 0.337 ng
RT: 16.379 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:248 Resp: 257

Ion	Ratio	Lower	Upper
248	100		
250	102.4	80.8	121.2
141	50.2	41.0	61.6



Instrument :
BNA_N
ClientSampleId :
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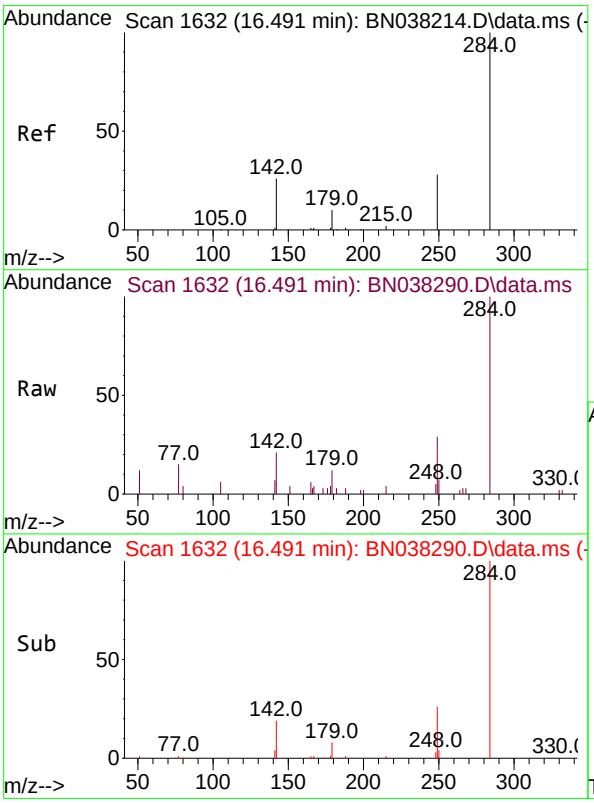
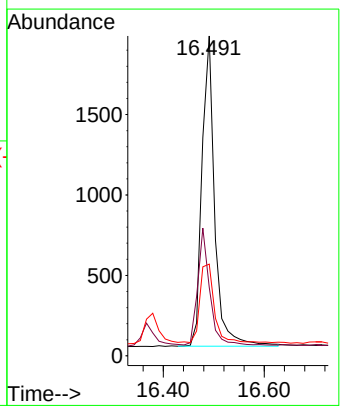
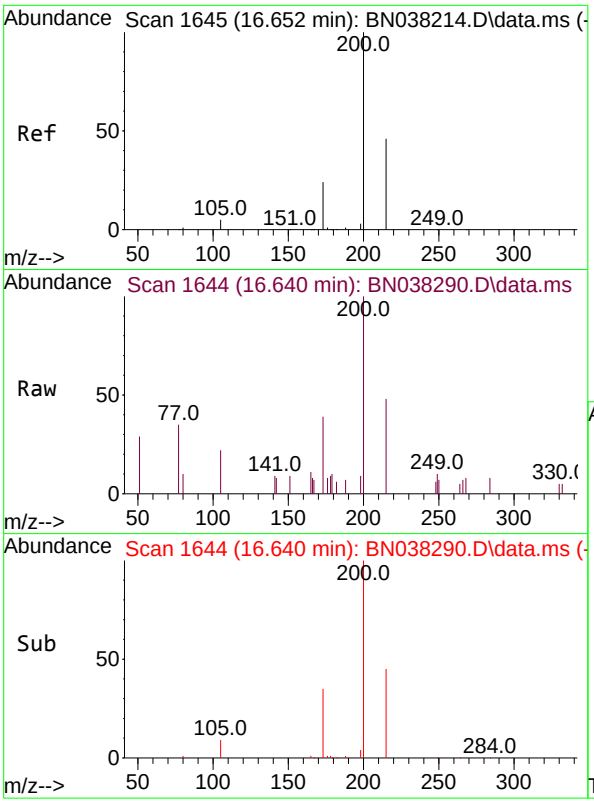


#22
Hexachlorobenzene
Concen: 0.358 ng
RT: 16.491 min Scan# 1632
Delta R.T. 0.000 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:284 Resp: 3363

Ion	Ratio	Lower	Upper
284	100		
142	35.5	30.5	45.7
249	29.1	23.8	35.8

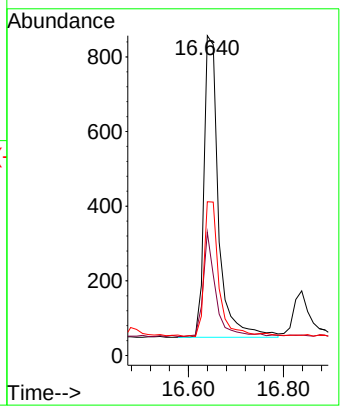




#23
Atrazine
Concen: 0.351 ng
RT: 16.640 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:200 Resp: 171

Ion	Ratio	Lower	Upper
200	100		
173	38.5	21.0	31.6
215	48.1	37.8	56.8



Instrument :
BNA_N
ClientSampleId :
PB170838BSD

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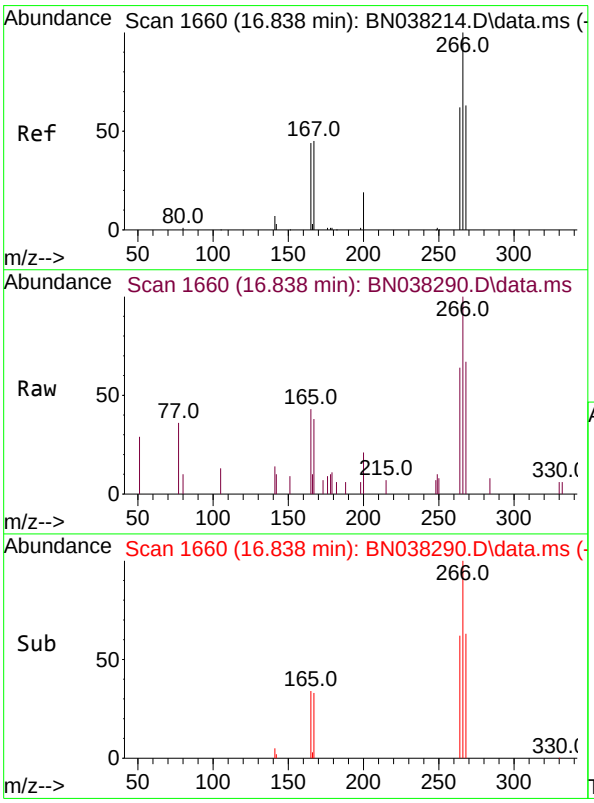
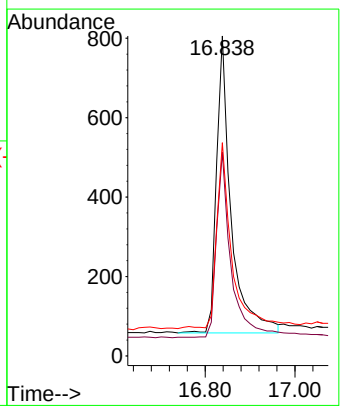
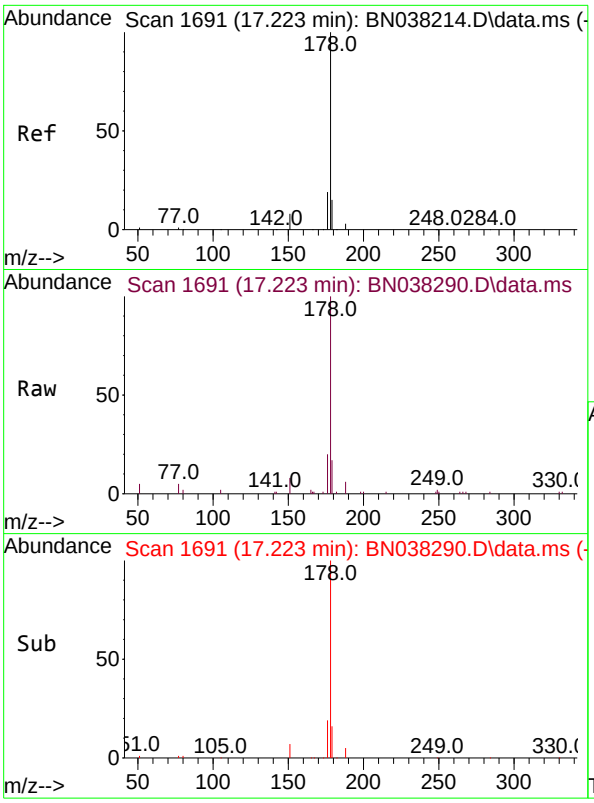


#24
Pentachlorophenol
Concen: 0.655 ng
RT: 16.838 min Scan# 1660
Delta R.T. 0.000 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:266 Resp: 1688

Ion	Ratio	Lower	Upper
266	100		
264	63.0	48.9	73.3
268	62.6	50.2	75.2

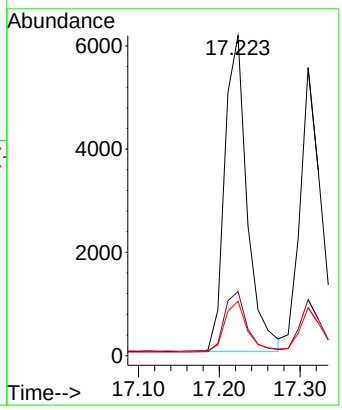




#25
Phenanthrene
Concen: 0.342 ng
RT: 17.223 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:178 Resp: 1183

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	16.0	12.0	18.0



Instrument :
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ClientSampleId :
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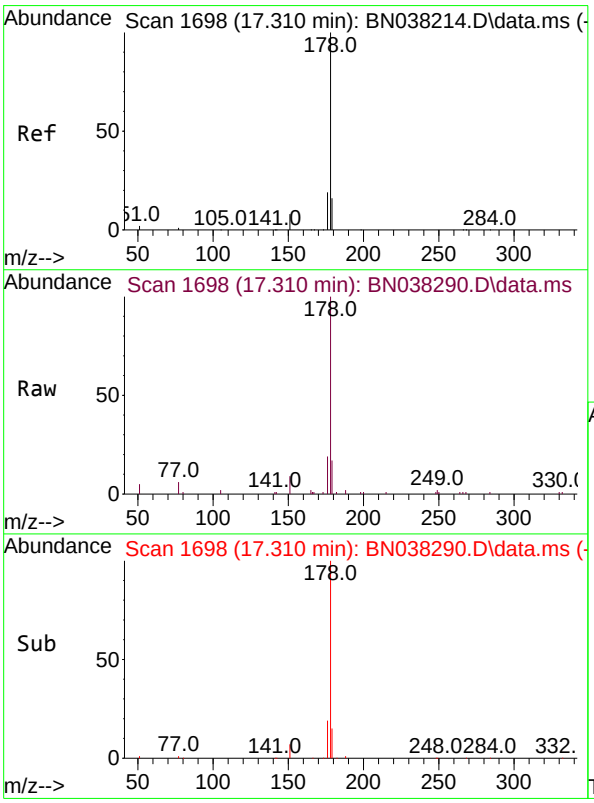
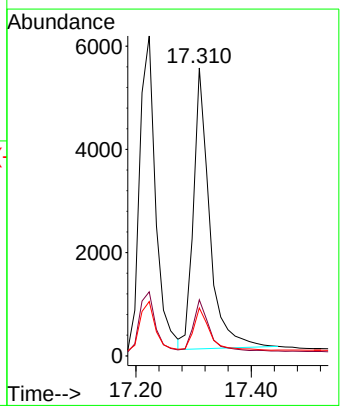
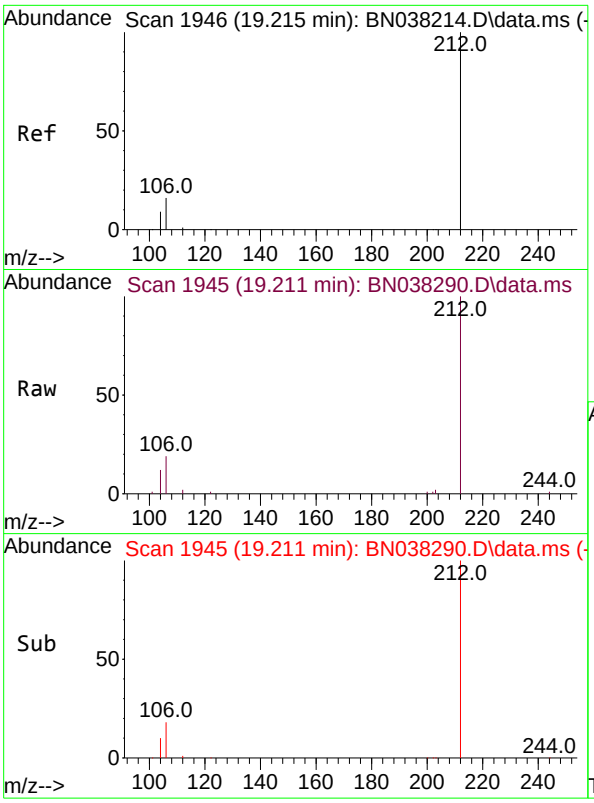


#26
Anthracene
Concen: 0.357 ng
RT: 17.310 min Scan# 1698
Delta R.T. 0.000 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:178 Resp: 10550

Ion	Ratio	Lower	Upper
178	100		
176	18.5	14.7	22.1
179	15.6	12.3	18.5

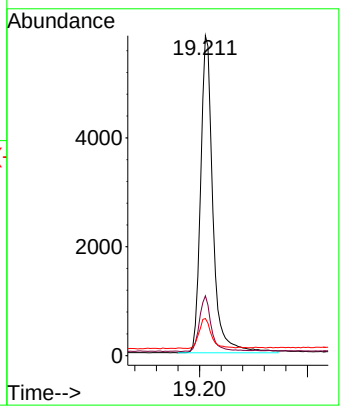




#27
Fluoranthene-d10
Concen: 0.386 ng
RT: 19.211 min Scan# 19
Delta R.T. -0.004 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:212 Resp: 923

Ion	Ratio	Lower	Upper
212	100		
106	17.0	12.7	19.1
104	9.4	7.3	10.9



Instrument :
BNA_N
ClientSampleId :
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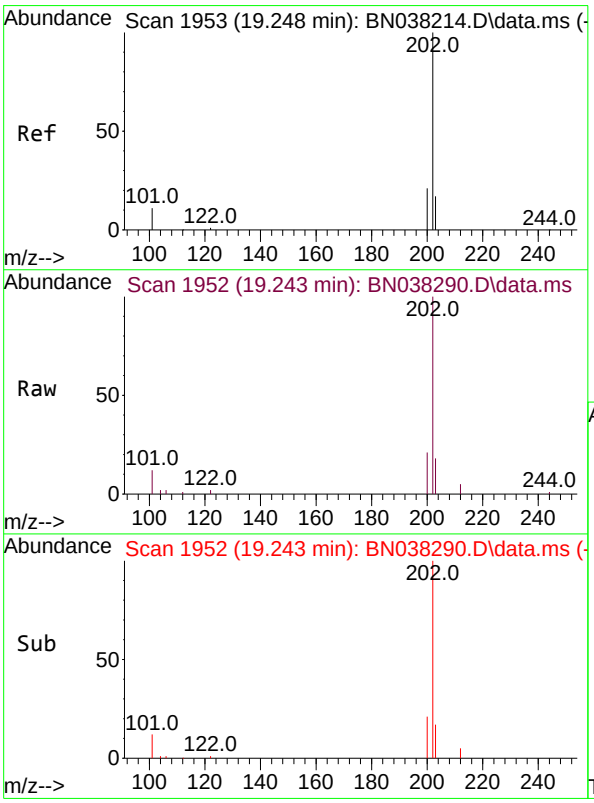
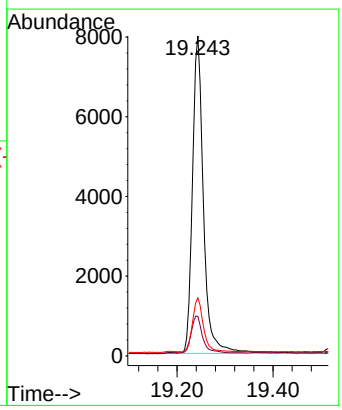
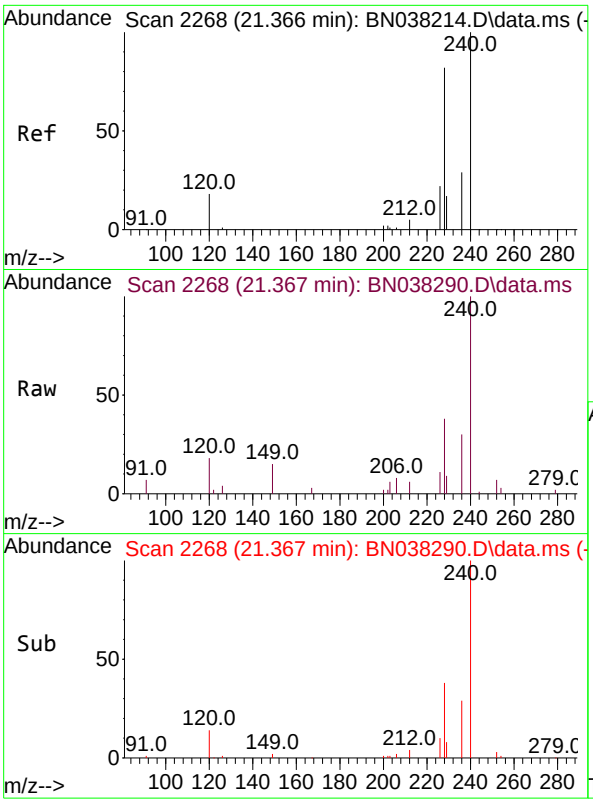


#28
Fluoranthene
Concen: 0.380 ng
RT: 19.243 min Scan# 1952
Delta R.T. -0.005 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:202 Resp: 12671

Ion	Ratio	Lower	Upper
202	100		
101	12.7	9.8	14.6
203	16.9	13.6	20.4

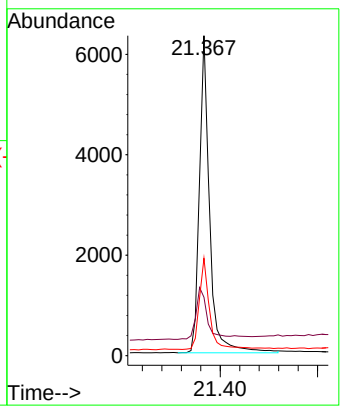




#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.367 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:240 Resp: 917

Ion	Ratio	Lower	Upper
240	100		
120	18.2	18.1	27.1
236	30.4	24.2	36.4



Instrument :
BNA_N
ClientSampleId :
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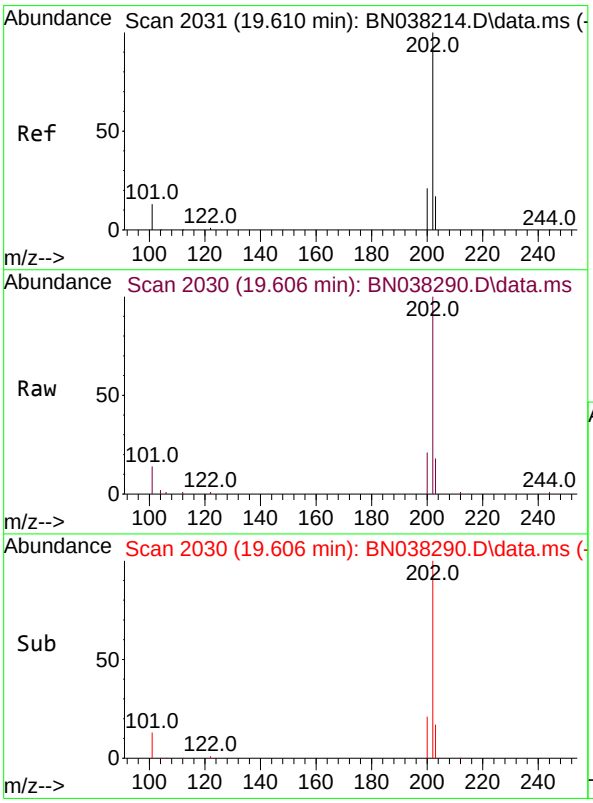
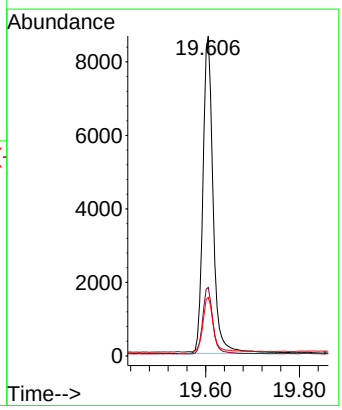
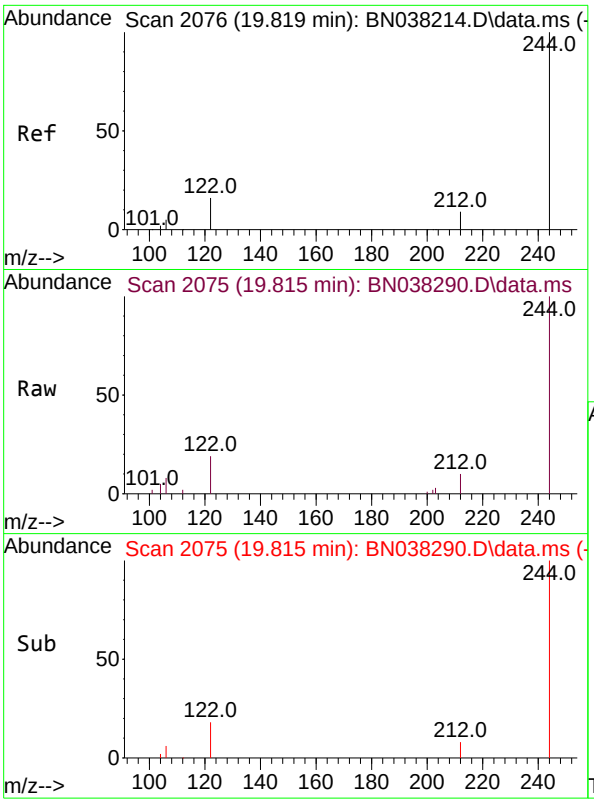


#30
Pyrene
Concen: 0.285 ng
RT: 19.606 min Scan# 2030
Delta R.T. -0.005 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:202 Resp: 13070

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.8	25.2
203	17.7	14.4	21.6

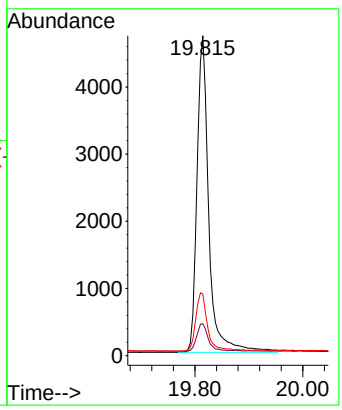




#31
Terphenyl-d14
Concen: 0.338 ng
RT: 19.815 min Scan# 20
Delta R.T. -0.005 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:244 Resp: 7154

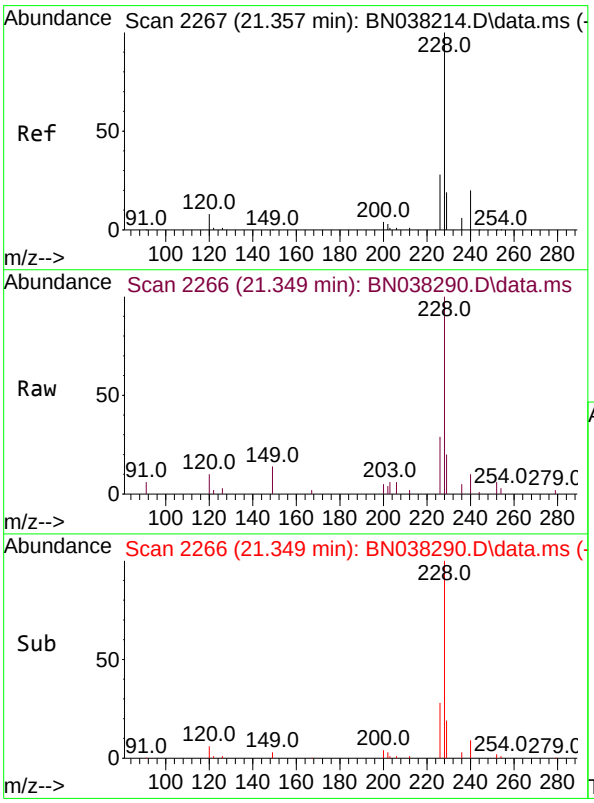
Ion	Ratio	Lower	Upper
244	100		
212	10.0	7.7	11.5
122	19.2	13.6	20.4



Instrument :
BNA_N
ClientSampleId :
PB170838BSD

Manual Integrations
APPROVED

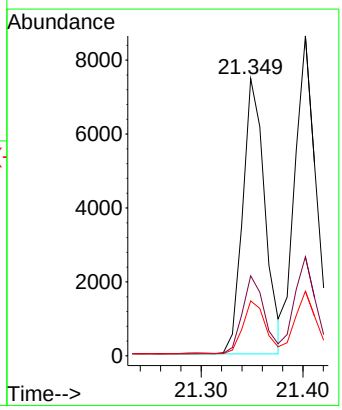
Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025

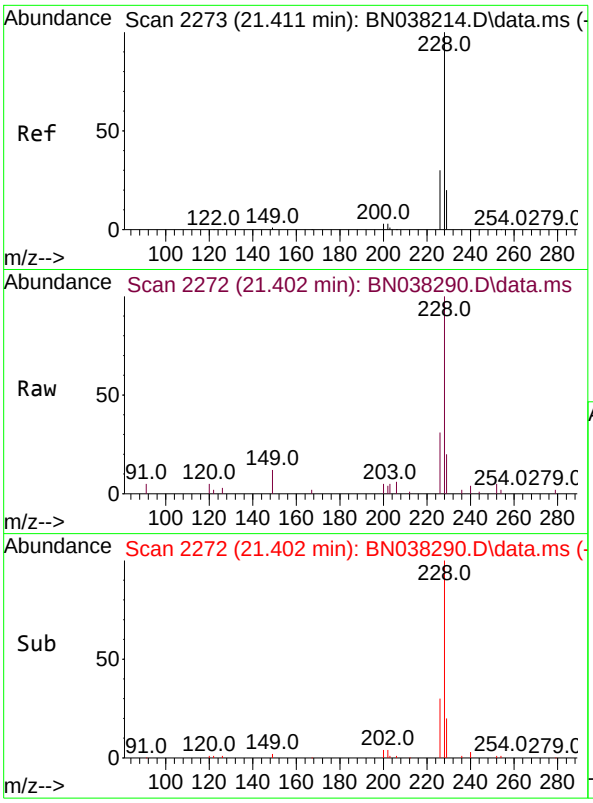


#32
Benzo(a)anthracene
Concen: 0.363 ng
RT: 21.349 min Scan# 2266
Delta R.T. -0.009 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:228 Resp: 11259

Ion	Ratio	Lower	Upper
228	100		
226	28.9	22.6	33.8
229	19.8	15.8	23.8

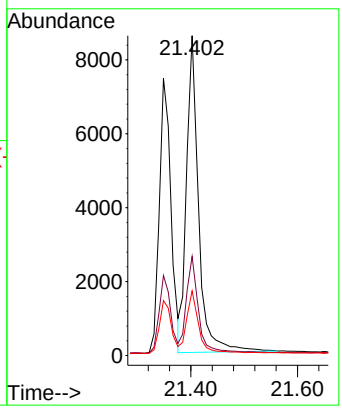




#33
Chrysene
Concen: 0.368 ng
RT: 21.402 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:228 Resp: 1350

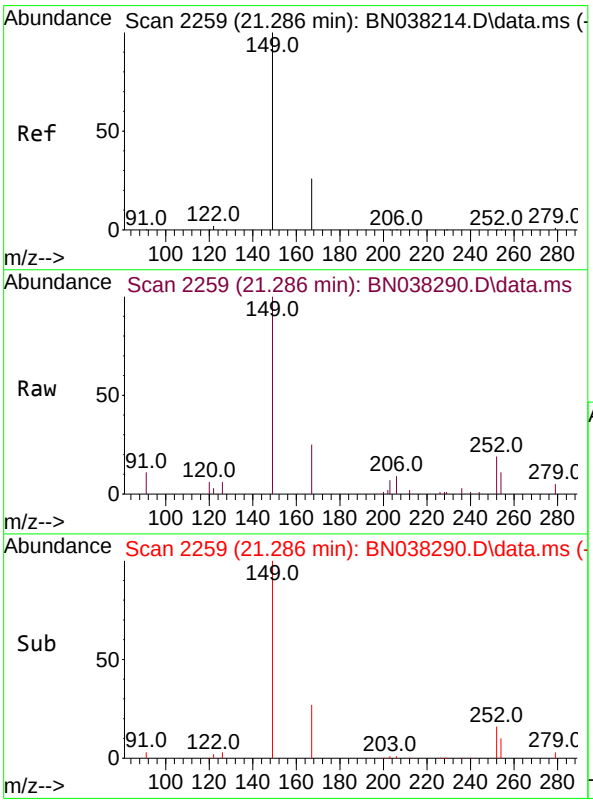
Ion	Ratio	Lower	Upper
228	100		
226	30.9	23.8	35.8
229	20.2	16.1	24.1



Instrument :
BNA_N
ClientSampleId :
PB170838BSD

Manual Integrations
APPROVED

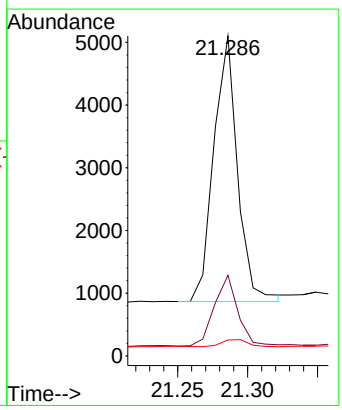
Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025

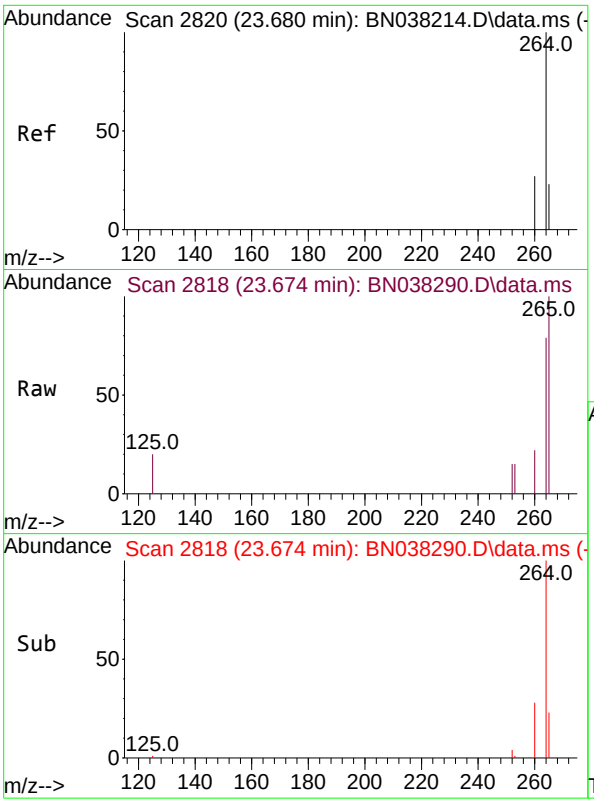


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.295 ng
RT: 21.286 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:149 Resp: 5015

Ion	Ratio	Lower	Upper
149	100		
167	27.0	20.7	31.1
279	2.8	2.5	3.7





#35
Perylene-d12
Concen: 0.400 ng
RT: 23.674 min Scan# 28
Delta R.T. -0.006 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

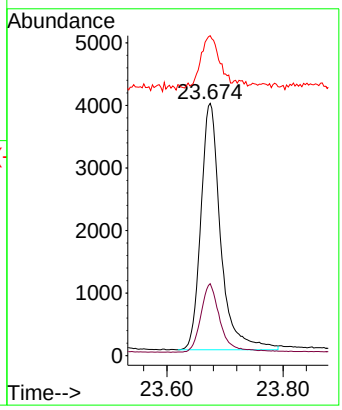
Tgt Ion:264 Resp: 9318

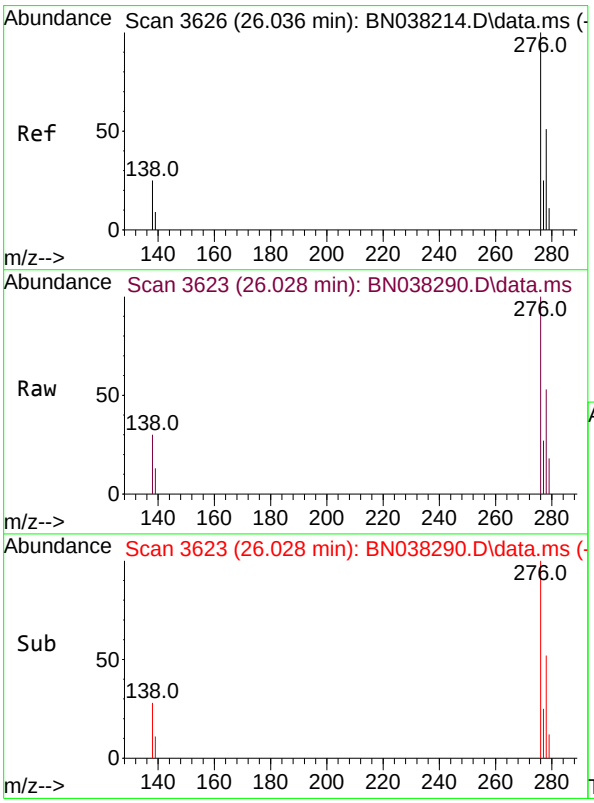
Ion	Ratio	Lower	Upper
264	100		
260	28.5	21.7	32.5
265	126.9	98.0	147.0

Instrument :
BNA_N
ClientSampleId :
PB170838BSD

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025

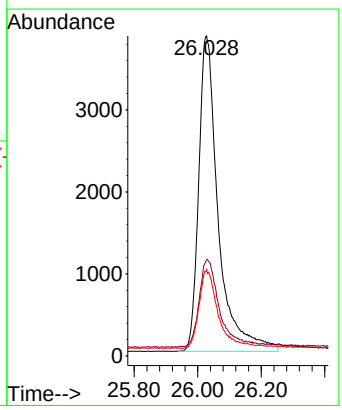


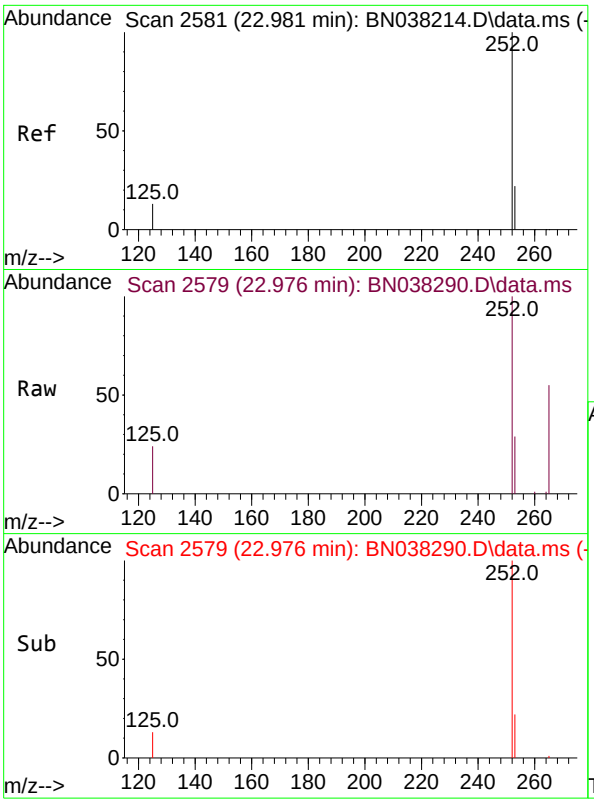


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.382 ng
RT: 26.028 min Scan# 3623
Delta R.T. -0.009 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:276 Resp: 16471

Ion	Ratio	Lower	Upper
276	100		
138	27.4	21.4	32.2
277	24.2	19.1	28.7

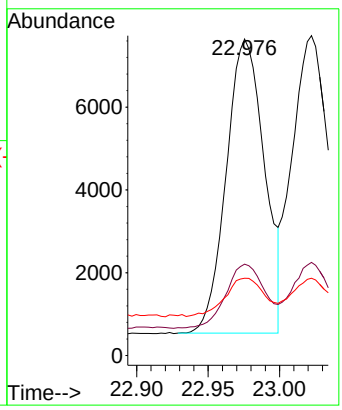




#37
Benzo(b)fluoranthene
Concen: 0.346 ng
RT: 22.976 min Scan# 2
Delta R.T. -0.006 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:252 Resp: 1321

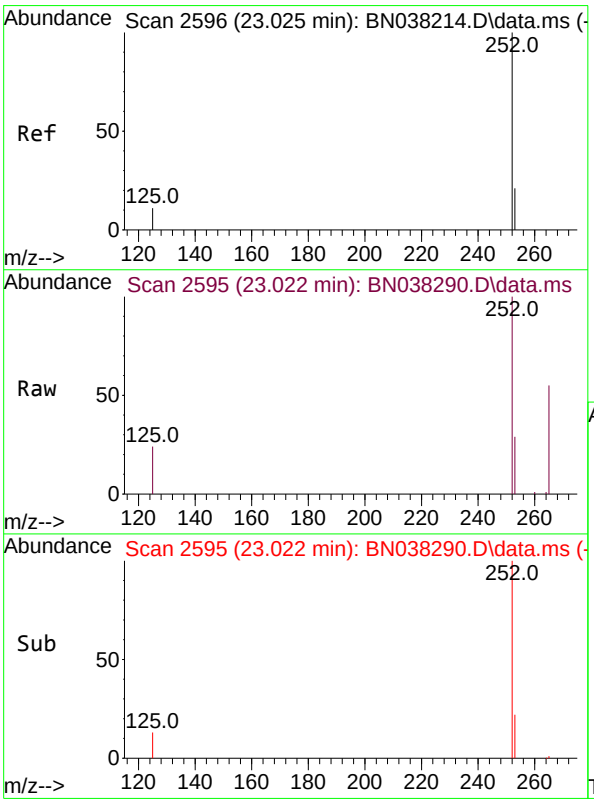
Ion	Ratio	Lower	Upper
252	100		
253	28.9	22.2	33.4
125	24.5	18.0	27.0



Instrument :
BNA_N
ClientSampleId :
PB170838BSD

Manual Integrations
APPROVED

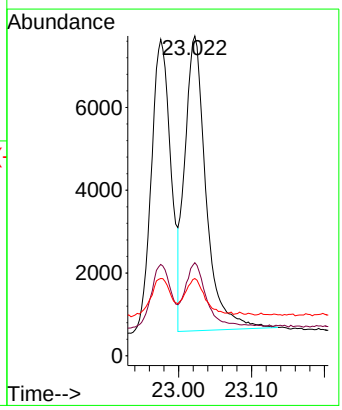
Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025

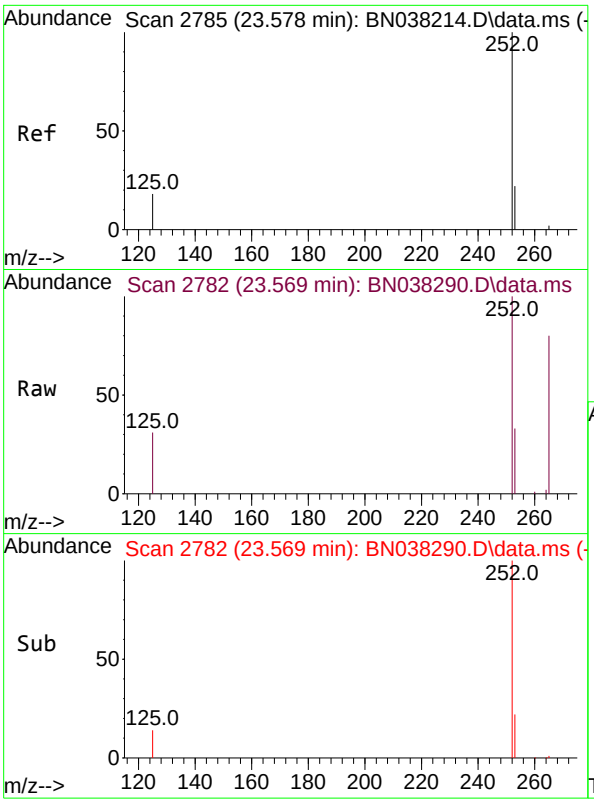


#38
Benzo(k)fluoranthene
Concen: 0.363 ng
RT: 23.022 min Scan# 2595
Delta R.T. -0.003 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:252 Resp: 14429

Ion	Ratio	Lower	Upper
252	100		
253	29.1	22.4	33.6
125	24.2	17.5	26.3





#39
Benzo(a)pyrene
Concen: 0.371 ng
RT: 23.569 min Scan# 2
Delta R.T. -0.009 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

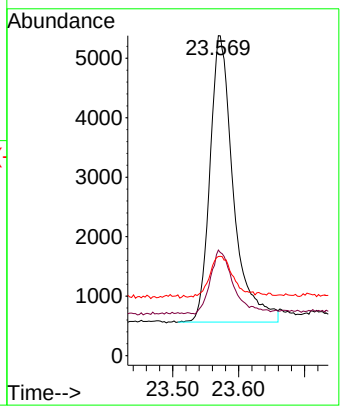
Instrument :
BNA_N
ClientSampleId :
PB170838BSD

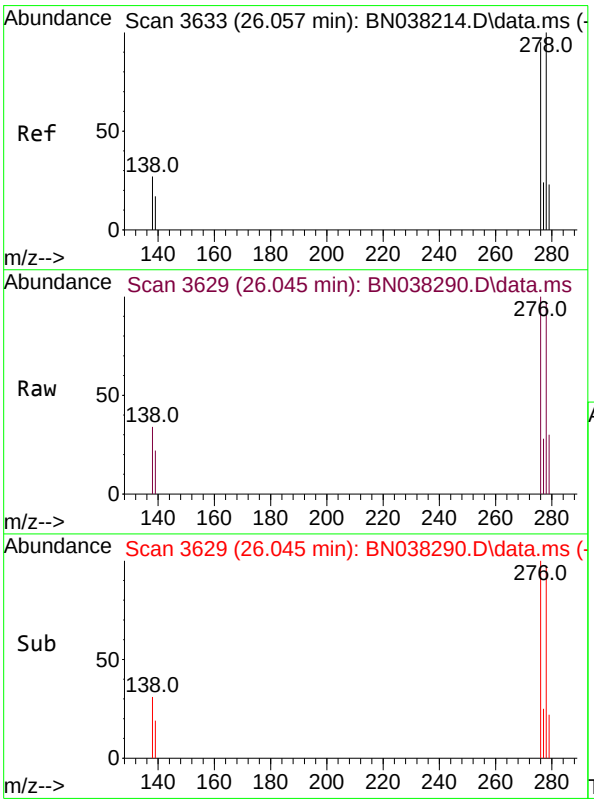
Tgt Ion:252 Resp: 1190

Ion	Ratio	Lower	Upper
252	100		
253	33.0	25.3	37.9
125	31.0	25.2	37.8

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025

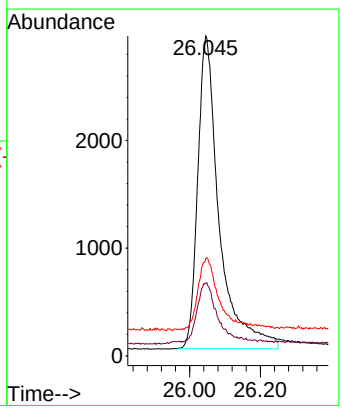


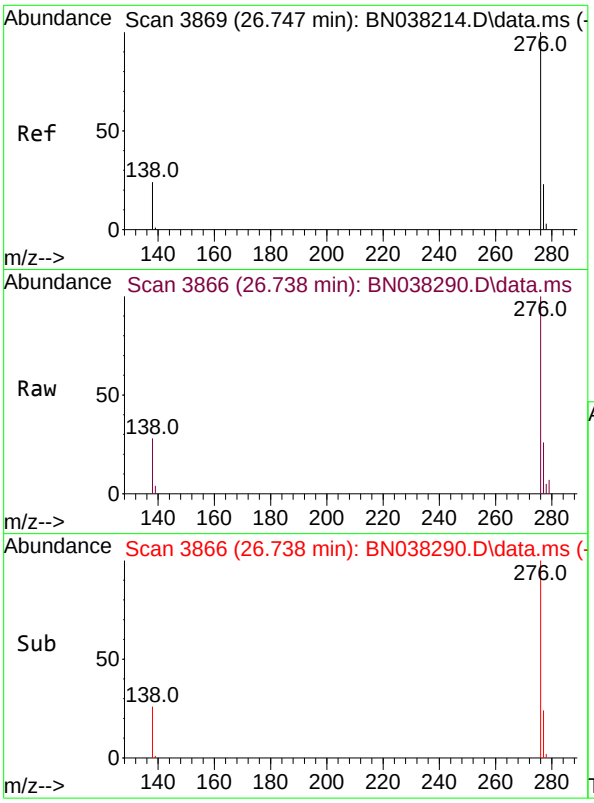


#40
Dibenzo(a,h)anthracene
Concen: 0.376 ng
RT: 26.045 min Scan# 3629
Delta R.T. -0.012 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:278 Resp: 12263

Ion	Ratio	Lower	Upper
278	100		
139	22.7	17.6	26.4
279	30.4	24.2	36.4

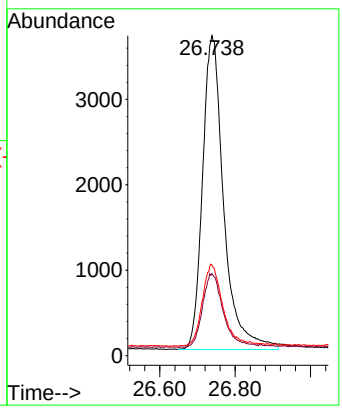




#41
Benzo(g,h,i)perylene
Concen: 0.368 ng
RT: 26.738 min Scan# 3
Delta R.T. -0.009 min
Lab File: BN038290.D
Acq: 06 Dec 2025 01:32

Tgt Ion:276 Resp: 1435

Ion	Ratio	Lower	Upper
276	100		
277	25.6	20.2	30.2
138	28.3	20.8	31.2



Instrument :
BNA_N
ClientSampleId :
PB170838BSD

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 12/08/2025
Supervised By :mohammad ahmed 12/09/2025

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

Manual Integration Report

Sequence:	BN112725	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC0.1	BN038212.D	Benzo(g,h,i)perylene	Jagrut	12/2/2025 4:10:05 PM	mohammad	12/3/2025 1:12:27 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BN120625	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB170838BS	BN038289.D	2-Methylnaphthalene-d10	Jagrut	12/8/2025 3:29:59 PM	mohammad	12/9/2025 12:44:58 AM	Peak Integrated by Software
PB170838BSD	BN038290.D	2-Methylnaphthalene-d10	Jagrut	12/8/2025 3:30:02 PM	mohammad	12/9/2025 12:44:58 AM	Peak Integrated by Software
Q3756-07	BN038294.D	Phenanthrene	Jagrut	12/8/2025 3:30:04 PM	mohammad	12/9/2025 12:44:58 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BN121025	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Manual Integration Report

Sequence:	BN121125	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN112725

Review By	Jagrut	Review On	12/2/2025 3:36:38 PM				
Supervise By	mohammad	Supervise On	12/3/2025 1:12:27 AM				
SubDirectory	BN112725	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	BN112725		

STD. NAME	STD REF.#
Tune/Reschk	SP6875
Initial Calibration Stds	SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904
CCC	SP6902
Internal Standard/PEM	SP6907,10ul/1000ul sample
ICV/I.BLK	SP6906
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN038211.D	26 Nov 2025 19:55	RC/JU	Ok
2	SSTDICC0.1	BN038212.D	26 Nov 2025 20:35	RC/JU	Ok,M
3	SSTDICC0.2	BN038213.D	26 Nov 2025 21:12	RC/JU	Ok
4	SSTDICCC0.4	BN038214.D	26 Nov 2025 21:48	RC/JU	Ok
5	SSTDICC0.8	BN038215.D	26 Nov 2025 22:25	RC/JU	Ok
6	SSTDICC1.6	BN038216.D	26 Nov 2025 23:01	RC/JU	Ok
7	SSTDICC3.2	BN038217.D	26 Nov 2025 23:37	RC/JU	Ok
8	SSTDICC5.0	BN038218.D	27 Nov 2025 00:13	RC/JU	Ok
9	SSTDICV0.4	BN038219.D	27 Nov 2025 00:49	RC/JU	Ok
10	PB170483BL	BN038220.D	27 Nov 2025 02:01	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN120625

Review By	Jagrut	Review On	12/8/2025 3:30:30 PM				
Supervise By	mohammad	Supervise On	12/9/2025 12:44:58 AM				
SubDirectory	BN120625	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	BN112725		

STD. NAME	STD REF.#
Tune/Reschk	SP6875
Initial Calibration Stds	SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904
CCC	SP6902
Internal Standard/PEM	SP6907,10ul/1000ul sample
ICV/I.BLK	SP6906
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN038286.D	05 Dec 2025 22:23	RC/JU	Ok
2	SSTDCCC0.4	BN038287.D	05 Dec 2025 23:42	RC/JU	Ok
3	PB170838BL	BN038288.D	06 Dec 2025 00:19	RC/JU	Ok
4	PB170838BS	BN038289.D	06 Dec 2025 00:55	RC/JU	Ok,M
5	PB170838BSD	BN038290.D	06 Dec 2025 01:32	RC/JU	Ok,M
6	Q3756-01	BN038291.D	06 Dec 2025 02:08	RC/JU	Ok
7	Q3756-03	BN038292.D	06 Dec 2025 02:45	RC/JU	Dilution
8	Q3756-05	BN038293.D	06 Dec 2025 03:21	RC/JU	Ok
9	Q3756-07	BN038294.D	06 Dec 2025 03:58	RC/JU	Ok,M
10	Q3756-09	BN038295.D	06 Dec 2025 04:35	RC/JU	Ok
11	Q3757-01	BN038296.D	06 Dec 2025 05:11	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN121025

Review By	rahul	Review On	12/11/2025 4:30:54 PM		
Supervise By	mohammad	Supervise On	12/13/2025 12:56:07 AM		
SubDirectory	BN121025	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	BN121025

STD. NAME	STD REF.#
Tune/Reschk	SP6875
Initial Calibration Stds	SP6947,SP6946,SP6945,SP6944,SP6943,SP6942,SP6940
CCC	SP6945
Internal Standard/PEM	SP6907,10ul/1000ul sample
ICV/I.BLK	SP6949
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN038297.D	10 Dec 2025 09:12	RC/JU	Ok
2	SSTDICC0.1	BN038298.D	10 Dec 2025 09:52	RC/JU	Ok
3	SSTDICC0.2	BN038299.D	10 Dec 2025 10:28	RC/JU	Ok
4	SSTDICCC0.4	BN038300.D	10 Dec 2025 11:05	RC/JU	Ok
5	SSTDICC0.8	BN038301.D	10 Dec 2025 11:41	RC/JU	Ok
6	SSTDICC1.6	BN038302.D	10 Dec 2025 12:17	RC/JU	Ok
7	SSTDICC3.2	BN038303.D	10 Dec 2025 12:53	RC/JU	Ok
8	SSTDICC5.0	BN038304.D	10 Dec 2025 13:30	RC/JU	Ok
9	SSTDICV0.4	BN038305.D	10 Dec 2025 14:06	RC/JU	Ok
10	PB170590BL	BN038306.D	10 Dec 2025 14:42	RC/JU	Ok
11	Q3483-11	BN038307.D	10 Dec 2025 15:18	RC/JU	Dilution
12	Q3483-11DL	BN038308.D	10 Dec 2025 15:54	RC/JU	Ok,M
13	SSTDCCC0.4	BN038309.D	10 Dec 2025 17:15	RC/JU	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN121125

Review By	rahul	Review On	12/11/2025 4:31:02 PM		
Supervise By	Jagrut	Supervise On	12/12/2025 2:27:51 PM		
SubDirectory	BN121125	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	BN121025

STD. NAME	STD REF.#
Tune/Reschk	SP6875
Initial Calibration Stds	SP6947,SP6946,SP6945,SP6944,SP6943,SP6942,SP6940
CCC	SP6945
Internal Standard/PEM	SP6907,10ul/1000ul sample
ICV/I.BLK	SP6949
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN038310.D	11 Dec 2025 10:33	RC/JU	Ok
2	SSTDCCC0.4	BN038311.D	11 Dec 2025 11:13	RC/JU	Ok
3	PB170850BL	BN038312.D	11 Dec 2025 11:49	RC/JU	Ok
4	Q3757-03	BN038313.D	11 Dec 2025 12:25	RC/JU	Dilution
5	Q3757-05	BN038314.D	11 Dec 2025 13:01	RC/JU	Ok
6	Q3757-07	BN038315.D	11 Dec 2025 13:38	RC/JU	Ok
7	Q3757-09	BN038316.D	11 Dec 2025 14:14	RC/JU	Ok
8	Q3757-11	BN038317.D	11 Dec 2025 14:50	RC/JU	Ok
9	Q3787-07	BN038318.D	11 Dec 2025 15:27	RC/JU	Ok
10	Q3787-09	BN038319.D	11 Dec 2025 16:03	RC/JU	Ok
11	Q3787-11	BN038320.D	11 Dec 2025 16:39	RC/JU	Ok
12	Q3787-13	BN038321.D	11 Dec 2025 17:15	RC/JU	Ok
13	Q3787-15	BN038322.D	11 Dec 2025 17:52	RC/JU	Ok
14	Q3787-17	BN038323.D	11 Dec 2025 18:28	RC/JU	Ok
15	Q3787-19	BN038324.D	11 Dec 2025 19:04	RC/JU	Ok
16	Q3788-07	BN038325.D	11 Dec 2025 19:40	RC/JU	Ok
17	Q3788-11	BN038326.D	11 Dec 2025 20:16	RC/JU	Ok
18	PB170850BS	BN038327.D	11 Dec 2025 20:52	RC/JU	Ok,M
19	SSTDCCC0.4	BN038328.D	11 Dec 2025 21:28	RC/JU	Ok
20	DFTPP	BN038329.D	11 Dec 2025 23:20	RC/JU	Ok
21	SSTDCCC0.4	BN038330.D	11 Dec 2025 23:59	RC/JU	Ok

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN121125

Review By	rahul	Review On	12/11/2025 4:31:02 PM		
Supervise By	Jagrut	Supervise On	12/12/2025 2:27:51 PM		
SubDirectory	BN121125	HP Acquire Method	BNA_N, 8270_SIM	HP Processing Method	BN121025

STD. NAME	STD REF.#
Tune/Reschk	SP6875
Initial Calibration Stds	SP6947,SP6946,SP6945,SP6944,SP6943,SP6942,SP6940
CCC	SP6945
Internal Standard/PEM	SP6907,10ul/1000ul sample
ICV/I.BLK	SP6949
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB170850BL	BN038331.D	12 Dec 2025 00:36	RC/JU	Not Ok
23	Q3756-03DL	BN038332.D	12 Dec 2025 01:13	RC/JU	Ok
24	Q3757-03DL	BN038333.D	12 Dec 2025 01:49	RC/JU	Ok
25	Q3788-01	BN038334.D	12 Dec 2025 02:25	RC/JU	Dilution
26	Q3788-02MS	BN038335.D	12 Dec 2025 03:01	RC/JU	Ok,M
27	Q3788-03MSD	BN038336.D	12 Dec 2025 03:37	RC/JU	Ok,M
28	Q3787-01	BN038337.D	12 Dec 2025 04:13	RC/JU	Ok
29	Q3787-02MS	BN038338.D	12 Dec 2025 04:49	RC/JU	Ok,M
30	Q3787-03MSD	BN038339.D	12 Dec 2025 05:25	RC/JU	Ok,M
31	Q3788-09	BN038340.D	12 Dec 2025 06:02	RC/JU	Ok
32	SSTDCCC0.4	BN038341.D	12 Dec 2025 06:38	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN112725

Review By	Jagrut	Review On	12/2/2025 3:36:38 PM	
Supervise By	mohammad	Supervise On	12/3/2025 1:12:27 AM	
SubDirectory	BN112725	HP Acquire Method	BNA_N, 8270_HP Processing Method	BN112725

STD. NAME	STD REF.#
Tune/Reschk	SP6875
Initial Calibration Stds	SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904
CCC	SP6902
Internal Standard/PEM	SP6907,10ul/1000ul sample
ICV/I.BLK	SP6906
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN038211.D	26 Nov 2025 19:55		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN038212.D	26 Nov 2025 20:35		RC/JU	Ok,M
3	SSTDICC0.2	SSTDICC0.2	BN038213.D	26 Nov 2025 21:12		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN038214.D	26 Nov 2025 21:48	Compound #20 kept on QR.	RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN038215.D	26 Nov 2025 22:25		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN038216.D	26 Nov 2025 23:01		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN038217.D	26 Nov 2025 23:37		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN038218.D	27 Nov 2025 00:13	Compound #14,24 removed from 5.0 level	RC/JU	Ok
9	SSTDICV0.4	ICVBN112725	BN038219.D	27 Nov 2025 00:49	ICV failed for compound #05,20,24	RC/JU	Ok
10	PB170483BL	PB170483BL	BN038220.D	27 Nov 2025 02:01		RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN120625

Review By	Jagrut	Review On	12/8/2025 3:30:30 PM	
Supervise By	mohammad	Supervise On	12/9/2025 12:44:58 AM	
SubDirectory	BN120625	HP Acquire Method	BNA_N, 8270_HP Processing Method	BN112725

STD. NAME	STD REF.#
Tune/Reschk	SP6875
Initial Calibration Stds	SP6897,SP6898,SP6900,SP6901,SP6902,SP6903,SP6904
CCC	SP6902
Internal Standard/PEM	SP6907,10ul/1000ul sample
ICV/I.BLK	SP6906
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN038286.D	05 Dec 2025 22:23		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN038287.D	05 Dec 2025 23:42		RC/JU	Ok
3	PB170838BL	PB170838BL	BN038288.D	06 Dec 2025 00:19		RC/JU	Ok
4	PB170838BS	PB170838BS	BN038289.D	06 Dec 2025 00:55		RC/JU	Ok,M
5	PB170838BSD	PB170838BSD	BN038290.D	06 Dec 2025 01:32		RC/JU	Ok,M
6	Q3756-01	OW-04B-26.5-120225	BN038291.D	06 Dec 2025 02:08		RC/JU	Ok
7	Q3756-03	BR-01-190-120225	BN038292.D	06 Dec 2025 02:45	Need 2X Dilution	RC/JU	Dilution
8	Q3756-05	MW-04-12-120225	BN038293.D	06 Dec 2025 03:21		RC/JU	Ok
9	Q3756-07	MW-13B-47.5-120225	BN038294.D	06 Dec 2025 03:58		RC/JU	Ok,M
10	Q3756-09	EB01-120225	BN038295.D	06 Dec 2025 04:35		RC/JU	Ok
11	Q3757-01	MW-14A-17.5-120325	BN038296.D	06 Dec 2025 05:11		RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN121025

Review By	rahul	Review On	12/11/2025 4:30:54 PM	
Supervise By	mohammad	Supervise On	12/13/2025 12:56:07 AM	
SubDirectory	BN121025	HP Acquire Method	BNA_N, 8270_HP Processing Method	BN121025

STD. NAME	STD REF.#
Tune/Reschk	SP6875
Initial Calibration Stds	SP6947,SP6946,SP6945,SP6944,SP6943,SP6942,SP6940
CCC	SP6945
Internal Standard/PEM	SP6907,10ul/1000ul sample
ICV/I.BLK	SP6949
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN038297.D	10 Dec 2025 09:12		RC/JU	Ok
2	SSTDICC0.1	SSTDICC0.1	BN038298.D	10 Dec 2025 09:52		RC/JU	Ok
3	SSTDICC0.2	SSTDICC0.2	BN038299.D	10 Dec 2025 10:28		RC/JU	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN038300.D	10 Dec 2025 11:05		RC/JU	Ok
5	SSTDICC0.8	SSTDICC0.8	BN038301.D	10 Dec 2025 11:41		RC/JU	Ok
6	SSTDICC1.6	SSTDICC1.6	BN038302.D	10 Dec 2025 12:17		RC/JU	Ok
7	SSTDICC3.2	SSTDICC3.2	BN038303.D	10 Dec 2025 12:53		RC/JU	Ok
8	SSTDICC5.0	SSTDICC5.0	BN038304.D	10 Dec 2025 13:30	Comp# 20 (4,6-Dinitro-2-methylphenol) removed from 5.0 ng level	RC/JU	Ok
9	SSTDICV0.4	ICVBN121025	BN038305.D	10 Dec 2025 14:06		RC/JU	Ok
10	PB170590BL	PB170590BL	BN038306.D	10 Dec 2025 14:42		RC/JU	Ok
11	Q3483-11	HW1025-PT-BNA-SOIL	BN038307.D	10 Dec 2025 15:18	Need 100X Dilution	RC/JU	Dilution
12	Q3483-11DL	HW1025-PT-BNA-SOIL	BN038308.D	10 Dec 2025 15:54		RC/JU	Ok,M
13	SSTDCCC0.4	SSTDCCC0.4EC	BN038309.D	10 Dec 2025 17:15		RC/JU	Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN121125

Review By	rahul	Review On	12/11/2025 4:31:02 PM	
Supervise By	Jagrut	Supervise On	12/12/2025 2:27:51 PM	
SubDirectory	BN121125	HP Acquire Method	BNA_N, 8270_HP Processing Method	BN121025

STD. NAME	STD REF.#
Tune/Reschk	SP6875
Initial Calibration Stds	SP6947,SP6946,SP6945,SP6944,SP6943,SP6942,SP6940
CCC	SP6945
Internal Standard/PEM	SP6907,10ul/1000ul sample
ICV/I.BLK	SP6949
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN038310.D	11 Dec 2025 10:33		RC/JU	Ok
2	SSTDCCC0.4	SSTDCCC0.4	BN038311.D	11 Dec 2025 11:13		RC/JU	Ok
3	PB170850BL	PB170850BL	BN038312.D	11 Dec 2025 11:49		RC/JU	Ok
4	Q3757-03	BR-03D-490-120325	BN038313.D	11 Dec 2025 12:25	Need 10X Dilution	RC/JU	Dilution
5	Q3757-05	MW-14B-46-120325	BN038314.D	11 Dec 2025 13:01		RC/JU	Ok
6	Q3757-07	RMW-05B-90.5-120325	BN038315.D	11 Dec 2025 13:38		RC/JU	Ok
7	Q3757-09	OW-05B-72-120325	BN038316.D	11 Dec 2025 14:14		RC/JU	Ok
8	Q3757-11	EB01-120325	BN038317.D	11 Dec 2025 14:50		RC/JU	Ok
9	Q3787-07	OWBR-02-170-120425	BN038318.D	11 Dec 2025 15:27		RC/JU	Ok
10	Q3787-09	OWBR-02-170-120425-	BN038319.D	11 Dec 2025 16:03		RC/JU	Ok
11	Q3787-11	OW-03B-51.5-120425	BN038320.D	11 Dec 2025 16:39		RC/JU	Ok
12	Q3787-13	OW-03B-51.5-120425-F	BN038321.D	11 Dec 2025 17:15		RC/JU	Ok
13	Q3787-15	OW-08B-72.5-120425	BN038322.D	11 Dec 2025 17:52		RC/JU	Ok
14	Q3787-17	OW-08B-72.5-120425-F	BN038323.D	11 Dec 2025 18:28		RC/JU	Ok
15	Q3787-19	OW-02B-21.2-120425	BN038324.D	11 Dec 2025 19:04		RC/JU	Ok
16	Q3788-07	OW-01B-66.5-120525	BN038325.D	11 Dec 2025 19:40		RC/JU	Ok
17	Q3788-11	MW-16B-87.5-120525	BN038326.D	11 Dec 2025 20:16		RC/JU	Ok
18	PB170850BS	PB170850BS	BN038327.D	11 Dec 2025 20:52		RC/JU	Ok,M

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN121125

Review By	rahul	Review On	12/11/2025 4:31:02 PM	
Supervise By	Jagrut	Supervise On	12/12/2025 2:27:51 PM	
SubDirectory	BN121125	HP Acquire Method	BNA_N, 8270_HP Processing Method	BN121025

STD. NAME	STD REF.#
Tune/Reschk	SP6875
Initial Calibration Stds	SP6947,SP6946,SP6945,SP6944,SP6943,SP6942,SP6940
CCC	SP6945
Internal Standard/PEM	SP6907,10ul/1000ul sample
ICV/I.BLK	SP6949
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	SSTDCCC0.4	SSTDCCC0.4EC	BN038328.D	11 Dec 2025 21:28		RC/JU	Ok
20	DFTPP	DFTPP	BN038329.D	11 Dec 2025 23:20		RC/JU	Ok
21	SSTDCCC0.4	SSTDCCC0.4	BN038330.D	11 Dec 2025 23:59		RC/JU	Ok
22	PB170850BL	PB170850BL	BN038331.D	12 Dec 2025 00:36	Analyzed for contamination check	RC/JU	Not Ok
23	Q3756-03DL	BR-01-190-120225DL	BN038332.D	12 Dec 2025 01:13		RC/JU	Ok
24	Q3757-03DL	BR-03D-490-120325DL	BN038333.D	12 Dec 2025 01:49		RC/JU	Ok
25	Q3788-01	OWBR-05-135-120525	BN038334.D	12 Dec 2025 02:25	Need 10X	RC/JU	Dilution
26	Q3788-02MS	OWBR-05-135-120525I	BN038335.D	12 Dec 2025 03:01		RC/JU	Ok,M
27	Q3788-03MSD	OWBR-05-135-120525I	BN038336.D	12 Dec 2025 03:37		RC/JU	Ok,M
28	Q3787-01	MW-15B-42.5-120425	BN038337.D	12 Dec 2025 04:13		RC/JU	Ok
29	Q3787-02MS	MW-15B-42.5-120425M	BN038338.D	12 Dec 2025 04:49		RC/JU	Ok,M
30	Q3787-03MSD	MW-15B-42.5-120425M	BN038339.D	12 Dec 2025 05:25		RC/JU	Ok,M
31	Q3788-09	TA-BR-05-465-120525	BN038340.D	12 Dec 2025 06:02		RC/JU	Ok
32	SSTDCCC0.4	SSTDCCC0.4EC	BN038341.D	12 Dec 2025 06:38		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB170838

SOP ID: M3510C,3580A-Extraction SVOC-21

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3953

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 12/05/2025

Extraction Start Time : 08:45

Extraction End Date : 12/05/2025

Extraction End Time : 13:45

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6938
Surrogate	1.0ML	0.4 PPM	SP6893
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	E3986
Baked Na2SO4	N/A	EP2663
H2SO4 1:1	N/A	EP2657
10N NaoH	N/A	EP2658
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:

pH Adjusted TO <2 with 1:1 H2SO4 & >11with 10N NAOH ,1.5ML Vial Lot #2210443.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/5/25	RS (Ext-lab)	JY/SVOC
13:50	**Preparation Group**	**Analysis Group**

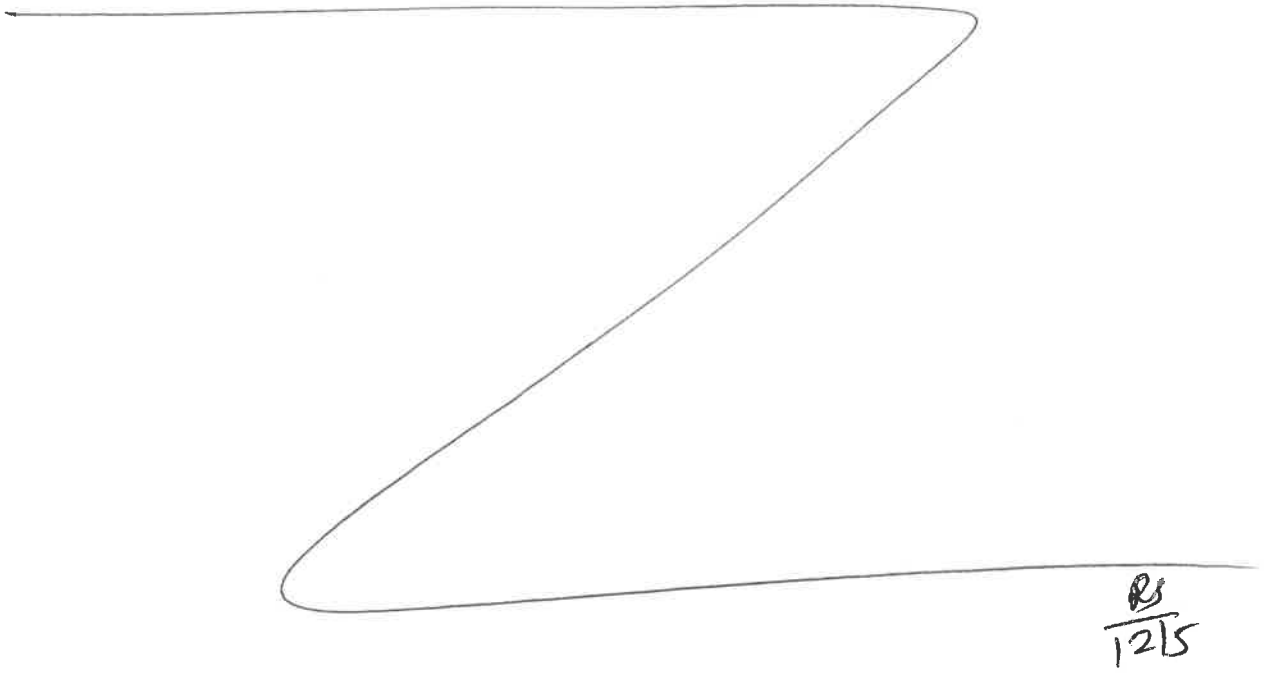
Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB170838

Analytical Method: M3510C,3580A-Extraction SVOC-21 **Concentration Date:** 12/05/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB170838BL	SBLK838	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			SEP-1
PB170838BS	SLCS838	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			2
PB170838BSD	SLCSD838	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1			3
Q3756-01	OW-04B-26.5-120225	SVOC-SIMGroup1	960	6	RUPESH	ritesh	1	E		4
Q3756-03	BR-01-190-120225	SVOC-SIMGroup1	970	6	RUPESH	ritesh	1	E		5
Q3756-05	MW-04-12-120225	SVOC-SIMGroup1	900	6	RUPESH	ritesh	1	E		6
Q3756-07	MW-13B-47.5-120225	SVOC-SIMGroup1	1000	6	RUPESH	ritesh	1	E		7
Q3756-09	EB01-120225	SVOC-SIMGroup1	950	6	RUPESH	ritesh	1	E		8
Q3757-01	MW-14A-17.5-120325	SVOC-SIMGroup1	890	6	RUPESH	ritesh	1	E		9
Q3757-03	BR-03D-490-120325	SVOC-SIMGroup1	910	6	RUPESH	ritesh	1	E		10
Q3757-05	MW-14B-46-120325	SVOC-SIMGroup1	920	6	RUPESH	ritesh	1	E		11
Q3757-07	RMW-05B-90.5-120325	SVOC-SIMGroup1	970	6	RUPESH	ritesh	1	E		12
Q3757-09	OW-05B-72-120325	SVOC-SIMGroup1	950	6	RUPESH	ritesh	1	E		13
Q3757-11	EB01-120325	SVOC-SIMGroup1	870	6	RUPESH	ritesh	1	E		14



RS
12/5

* **Extracts relinguished on the same date as received.**

1708838 8:45

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3756 **WorkList ID :** 193498 **Department :** Extraction **Date :** 12-05-2025 08:40:23

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3756-01	OW-04B-26.5-120225	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/02/2025	8270-Modified
Q3756-03	BR-01-190-120225	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/02/2025	8270-Modified
Q3756-05	MW-04-12-120225	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/02/2025	8270-Modified
Q3756-07	MW-13B-47.5-120225	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/02/2025	8270-Modified
Q3756-09	EB01-120225	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/02/2025	8270-Modified
Q3757-01	MW-14A-17.5-120325	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/03/2025	8270-Modified
Q3757-03	BR-03D-490-120325	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/03/2025	8270-Modified
Q3757-05	MW-14B-46-120325	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/03/2025	8270-Modified
Q3757-07	RMW-05B-90.5-120325	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/03/2025	8270-Modified
Q3757-09	OW-05B-72-120325	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/03/2025	8270-Modified
Q3757-11	EB01-120325	Water	SVOC-SIMGroup1	Cool 4 deg C	JACO05	A11	12/03/2025	8270-Modified

Date/Time 12/5/25 8:40
Raw Sample Received by: RS (Ext lab)
Raw Sample Relinquished by: [signature]

Date/Time 12/5/25 9:20
Raw Sample Received by: [signature]
Raw Sample Relinquished by: RS (Ext lab)

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q 3756
COC Number 2047323

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Jacobs
ADDRESS: 412 Mt Kemble Ave Suite H100
CITY Morristown STATE: NJ ZIP: 07960
ATTENTION: John Yntante
PHONE: (281) 414-1719 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: STC PTC
PROJECT NO.: D4033126 LOCATION: Princeton Junction
PROJECT MANAGER: Mary Murphy
e-mail: Mary.Murphy@Jacobs.com
PHONE: (201) 936-0586 FAX:

CLIENT BILLING INFORMATION

BILL TO: Mary Murphy PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

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 + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other _____
☐ EDD FORMAT _____

ANALYSIS

1: Site Specific VOCs (82260B-SIM)
2: Freon 12 (8260B-SIM)
3: VOCs + Site Specific + Freon 12 (8260B)
4: 1,4 Dioxane (8270C-SIM)
5:
6:
7:
8:
9:

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								A/E	A/E	E							← Specify Preservatives A-HCl D-NaOH B-HNO3 E-ICE C-H2SO4 F-OTHER
1.	BW-04B-26.5-120225	GW		X	12/2/25	1110	5	X		X							
2.	DW-04B-26.5-120225-SIM	GW		X	12/2/25	1110	3		X								
3.	BR-01-190-120225	GW		X	12/2/25	1230	5	X		X							
4.	BR-01-190-120225-SIM	GW		X	12/2/25	1230	3		X								
5.	MW-04-12-120225	GW		X	12/2/25	1410	5	X		X							
6.	MW-04-12-120225-SIM	GW		X	12/2/25	1410	3		X								
7.	MW-13B-47.5-120225	GW		X	12/2/25	1420	5	X		X							
8.	MW-13B-47.5-120225-SIM	GW		X	12/2/25	1420	3		X								
9.	EB01-120225	~~EB~~ DI		X	12/2/25	1500	8	X	X	X							
10.	TB01-120225	~~TB~~ DI		X	12/2/25	0800	4	X	X								

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	12/1/25 1600	1. 1600 12-2-25
2.		2.
3.	12-2-25 735	3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 2.8 °C
Comments: See work order for list of site specific VOCs

Page 1 of 1

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

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WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q3756 JACO05
Client Name : JACOBS Engineering Grou
Client Contact : John Ynfante
Invoice Name : JACOBS Engineering Grou
Invoice Contact : John Ynfante

Order Date : 12/3/2025 9:25:00 AM
Project Name : Former Schlumberger STC
Receive DateTime : 12/2/2025 5:35:00 PM
Purchase Order :

Project Mgr :
Report Type : Level 3
EDD Type : CH2MHILL
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q3756-01	OW-04B-26.5-120225	Water	12/02/2025	11:10					
					VOCMS Group3		8260-Low		10 Bus. Days
Q3756-02	OW-04B-26.5-120225-SIM	Water	12/02/2025	11:10					
					VOC-SFAM		SFAM_VOC		10 Bus. Days
Q3756-03	BR-01-190-120225	Water	12/02/2025	12:30					
					VOCMS Group3		8260-Low		10 Bus. Days
Q3756-04	BR-01-190-120225-SIM	Water	12/02/2025	12:30					
					VOC-SFAM		SFAM_VOC		10 Bus. Days
Q3756-05	MW-04-12-120225	Water	12/02/2025	14:10					
					VOCMS Group3		8260-Low		10 Bus. Days
Q3756-06	MW-04-12-120225-SIM	Water	12/02/2025	14:10					
					VOC-SFAM		SFAM_VOC		10 Bus. Days
Q3756-07	MW-13B-47.5-120225	Water	12/02/2025	14:20					
					VOCMS Group3		8260-Low		10 Bus. Days
Q3756-08	MW-13B-47.5-120225-SIM	Water	12/02/2025	14:20					

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

LOGIN REPORT/SAMPLE TRANSFER

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Project Mgr :
Report Type : Level 3
EDD Type : CH2MHILL
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
					VOC-SFAM		SFAM_VOC		10 Bus. Days
Q3756-09	EB01-120225	Water	12/02/2025	15:00					
					VOC-SFAM		SFAM_VOC		10 Bus. Days
					VOCMS Group3		8260-Low		10 Bus. Days
Q3756-10	TB01-120225	Water	12/02/2025	08:00					
					VOC-SFAM		SFAM_VOC		10 Bus. Days
					VOCMS Group3		8260-Low		10 Bus. Days

Q3756 VHBLK002 Water 12/2/2025 17:35 VOC-SIM SFAM-VOC 10 BUS DAYS dw

Relinguished By : CP
Date / Time : 12/3/25 10:20

Received By : Sam
Date / Time : 12/03/25 10:20 Right 4

Storage Area : **VOA Refridgerator Room**