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

Hit Summary Sheet
SW-846

SDG No.: Q2177

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :								
				0.000				
			Total Svoc :			**0.00**		
			Total Concentration:			**0.00**		

SAMPLE DATA

Raw Data: **BM050203.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/04/25
Client Sample ID:	PB168224TB	SDG No.:	Q2177
Lab Sample ID:	PB168224TB	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050203.D	1	06/04/25 08:30	06/05/25 16:35	PB168269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	131		15 (23) - 110 (138)	88%	SPK: 150
13127-88-3	Phenol-d6	121		15 (10) - 110 (134)	81%	SPK: 150
4165-60-0	Nitrobenzene-d5	80.0		30 (67) - 130 (132)	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	80.1		30 (52) - 130 (132)	80%	SPK: 100
118-79-6	2,4,6-Tribromophenol	120		15 (44) - 110 (137)	80%	SPK: 150
1718-51-0	Terphenyl-d14	78.2		30 (42) - 130 (152)	78%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	259000	7.787			
1146-65-2	Naphthalene-d8	957000	10.575			
15067-26-2	Acenaphthene-d10	523000	14.416			
1517-22-2	Phenanthrene-d10	933000	17.151			
1719-03-5	Chrysene-d12	870000	21.38			
1520-96-3	Perylene-d12	921000	24.374			

Raw Data: **BM050203.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	06/04/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/04/25
Client Sample ID:	PB168224TB	SDG No.:	Q2177
Lab Sample ID:	PB168224TB	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050203.D	1	06/04/25 08:30	06/05/25 16:35	PB168269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **BM050209.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/02/25
Client Sample ID:	B-187-SB01	SDG No.:	Q2177
Lab Sample ID:	Q2177-03	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050209.D	1	06/04/25 08:30	06/06/25 11:27	PB168269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	119		15 (23) - 110 (138)	80%	SPK: 150
13127-88-3	Phenol-d6	104		15 (10) - 110 (134)	69%	SPK: 150
4165-60-0	Nitrobenzene-d5	80.2		30 (67) - 130 (132)	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.2		30 (52) - 130 (132)	78%	SPK: 100
118-79-6	2,4,6-Tribromophenol	126		15 (44) - 110 (137)	84%	SPK: 150
1718-51-0	Terphenyl-d14	77.5		30 (42) - 130 (152)	78%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	305000	7.787			
1146-65-2	Naphthalene-d8	1160000	10.575			
15067-26-2	Acenaphthene-d10	659000	14.41			
1517-22-2	Phenanthrene-d10	1220000	17.151			
1719-03-5	Chrysene-d12	1160000	21.38			
1520-96-3	Perylene-d12	1240000	24.368			

Raw Data: **BM050209.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/02/25
Client Sample ID:	B-187-SB01	SDG No.:	Q2177
Lab Sample ID:	Q2177-03	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050209.D	1	06/04/25 08:30	06/06/25 11:27	PB168269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **BM050232.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/02/25
Client Sample ID:	B-187-SB02	SDG No.:	Q2177
Lab Sample ID:	Q2177-05	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050232.D	1	06/04/25 08:30	06/07/25 03:20	PB168269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	119		15 (23) - 110 (138)	80%	SPK: 150
13127-88-3	Phenol-d6	97.8		15 (10) - 110 (134)	65%	SPK: 150
4165-60-0	Nitrobenzene-d5	80.7		30 (67) - 130 (132)	81%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.2		30 (52) - 130 (132)	78%	SPK: 100
118-79-6	2,4,6-Tribromophenol	121		15 (44) - 110 (137)	80%	SPK: 150
1718-51-0	Terphenyl-d14	79.5		30 (42) - 130 (152)	80%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	305000	7.786			
1146-65-2	Naphthalene-d8	1150000	10.575			
15067-26-2	Acenaphthene-d10	611000	14.41			
1517-22-2	Phenanthrene-d10	1090000	17.145			
1719-03-5	Chrysene-d12	1090000	21.374			
1520-96-3	Perylene-d12	1170000	24.362			

Raw Data: **BM050232.D**

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/02/25
Client Sample ID:	B-187-SB02	SDG No.:	Q2177
Lab Sample ID:	Q2177-05	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050232.D	1	06/04/25 08:30	06/07/25 03:20	PB168269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **BM050233.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/02/25
Client Sample ID:	B-202-SB01	SDG No.:	Q2177
Lab Sample ID:	Q2177-07	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050233.D	1	06/04/25 08:30	06/07/25 04:00	PB168269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	12.8	U	12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	5.30	U	5.30	50.0	ug/L
95-48-7	2-Methylphenol	11.2	U	11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	11.0	U	11.0	100	ug/L
67-72-1	Hexachloroethane	6.50	U	6.50	50.0	ug/L
98-95-3	Nitrobenzene	7.60	U	7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	5.40	U	5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	5.10	U	5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	6.20	U	6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	12.2	U	12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	5.20	U	5.20	50.0	ug/L
87-86-5	Pentachlorophenol	15.8	U	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	124		15 (23) - 110 (138)	83%	SPK: 150
13127-88-3	Phenol-d6	107		15 (10) - 110 (134)	71%	SPK: 150
4165-60-0	Nitrobenzene-d5	80.5		30 (67) - 130 (132)	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	76.4		30 (52) - 130 (132)	76%	SPK: 100
118-79-6	2,4,6-Tribromophenol	117		15 (44) - 110 (137)	78%	SPK: 150
1718-51-0	Terphenyl-d14	83.0		30 (42) - 130 (152)	83%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	307000	7.787			
1146-65-2	Naphthalene-d8	1160000	10.569			
15067-26-2	Acenaphthene-d10	625000	14.41			
1517-22-2	Phenanthrene-d10	1110000	17.145			
1719-03-5	Chrysene-d12	1040000	21.374			
1520-96-3	Perylene-d12	1120000	24.356			

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	06/02/25
Client Sample ID:	B-202-SB01			SDG No.:	Q2177
Lab Sample ID:	Q2177-07			Matrix:	TCLP
Analytical Method:	8270E			% Solid:	0
Sample Wt/Vol:	100	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050233.D	1	06/04/25 08:30	06/07/25 04:00	PB168269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

QC SUMMARY

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

Surrogate Summary

SW-846

SDG No.: Q2177

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB168224TB	PB168224TB	2-Fluorophenol	150	131	88		15 (23)	110 (138)
		Phenol-d6	150	121	81		15 (10)	110 (134)
		Nitrobenzene-d5	100	80.0	80		30 (67)	130 (132)
		2-Fluorobiphenyl	100	80.1	80		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	120	80		15 (44)	110 (137)
		Terphenyl-d14	100	78.2	78		30 (42)	130 (152)
PB168269BL	PB168269BL	2-Fluorophenol	150	137	91		15 (23)	110 (138)
		Phenol-d6	150	129	86		15 (10)	110 (134)
		Nitrobenzene-d5	100	83.4	83		30 (67)	130 (132)
		2-Fluorobiphenyl	100	82.9	83		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	126	84		15 (44)	110 (137)
		Terphenyl-d14	100	83.7	84		30 (42)	130 (152)
PB168269BS	PB168269BS	2-Fluorophenol	150	131	87		15 (23)	110 (138)
		Phenol-d6	150	121	81		15 (10)	110 (134)
		Nitrobenzene-d5	100	79.8	80		30 (67)	130 (132)
		2-Fluorobiphenyl	100	80.2	80		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	123	82		15 (44)	110 (137)
		Terphenyl-d14	100	79.3	79		30 (42)	130 (152)
Q2177-03	B-187-SB01	2-Fluorophenol	150	119	80		15 (23)	110 (138)
		Phenol-d6	150	104	69		15 (10)	110 (134)
		Nitrobenzene-d5	100	80.2	80		30 (67)	130 (132)
		2-Fluorobiphenyl	100	78.2	78		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	126	84		15 (44)	110 (137)
		Terphenyl-d14	100	77.5	78		30 (42)	130 (152)
Q2177-03MS	B-187-SB01MS	2-Fluorophenol	150	122	81		15 (23)	110 (138)
		Phenol-d6	150	109	73		15 (10)	110 (134)
		Nitrobenzene-d5	100	79.5	79		30 (67)	130 (132)
		2-Fluorobiphenyl	100	77.7	78		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	124	83		15 (44)	110 (137)
		Terphenyl-d14	100	79.5	79		30 (42)	130 (152)
Q2177-03MSD	B-187-SB01MSD	2-Fluorophenol	150	117	78		15 (23)	110 (138)
		Phenol-d6	150	106	71		15 (10)	110 (134)
		Nitrobenzene-d5	100	77.2	77		30 (67)	130 (132)
		2-Fluorobiphenyl	100	75.1	75		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	121	80		15 (44)	110 (137)
		Terphenyl-d14	100	78.0	78		30 (42)	130 (152)
Q2177-05	B-187-SB02	2-Fluorophenol	150	119	80		15 (23)	110 (138)
		Phenol-d6	150	97.8	65		15 (10)	110 (134)
		Nitrobenzene-d5	100	80.7	81		30 (67)	130 (132)
		2-Fluorobiphenyl	100	78.2	78		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	121	80		15 (44)	110 (137)
		Terphenyl-d14	100	79.5	80		30 (42)	130 (152)
Q2177-07	B-202-SB01	2-Fluorophenol	150	124	83		15 (23)	110 (138)
		Phenol-d6	150	107	71		15 (10)	110 (134)
		Nitrobenzene-d5	100	80.5	80		30 (67)	130 (132)
		2-Fluorobiphenyl	100	76.4	76		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	117	78		15 (44)	110 (137)
		Terphenyl-d14	100	83.0	83		30 (42)	130 (152)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2177

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2177-03MS		**Client Sample ID: B-187-SB01MS**						**DataFile: BM050210.D**			
Pyridine	500	0	370	ug/L	74				20 (10)	160 (109)	
1,4-Dichlorobenzene	500	0	380	ug/L	76				70 (55)	130 (125)	
2-Methylphenol	500	0	430	ug/L	86				70 (60)	130 (131)	
3+4-Methylphenols	500	0	420	ug/L	84				20 (54)	160 (136)	
Hexachloroethane	500	0	380	ug/L	76				20 (19)	160 (146)	
Nitrobenzene	500	0	450	ug/L	90				70 (62)	130 (112)	
Hexachlorobutadiene	500	0	410	ug/L	82				70 (52)	130 (125)	
2,4,6-Trichlorophenol	500	0	480	ug/L	96				70 (78)	130 (112)	
2,4,5-Trichlorophenol	500	0	470	ug/L	94				70 (71)	130 (111)	
2,4-Dinitrotoluene	500	0	490	ug/L	98				70 (74)	130 (137)	
Hexachlorobenzene	500	0	470	ug/L	94				70 (72)	130 (115)	
Pentachlorophenol	1000	0	960	ug/L	96				20 (52)	160 (162)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q2177

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2177-03MSD		**Client Sample ID: B-187-SB01MSD**						**DataFile: BM050211.D**			
Pyridine	500	0	350	ug/L	70		6		20 (10)	160 (109)	20 (20)
1,4-Dichlorobenzene	500	0	360	ug/L	72		5		70 (55)	130 (125)	20 (20)
2-Methylphenol	500	0	420	ug/L	84		2		70 (60)	130 (131)	20 (20)
3+4-Methylphenols	500	0	410	ug/L	82		2		20 (54)	160 (136)	20 (20)
Hexachloroethane	500	0	360	ug/L	72		5		20 (19)	160 (146)	20 (20)
Nitrobenzene	500	0	430	ug/L	86		5		70 (62)	130 (112)	20 (20)
Hexachlorobutadiene	500	0	400	ug/L	80		2		70 (52)	130 (125)	20 (20)
2,4,6-Trichlorophenol	500	0	470	ug/L	94		2		70 (78)	130 (112)	20 (20)
2,4,5-Trichlorophenol	500	0	460	ug/L	92		2		70 (71)	130 (111)	20 (20)
2,4-Dinitrotoluene	500	0	480	ug/L	96		2		70 (74)	130 (137)	20 (20)
Hexachlorobenzene	500	0	460	ug/L	92		2		70 (72)	130 (115)	20 (20)
Pentachlorophenol	1000	0	920	ug/L	92		4		20 (52)	160 (162)	20 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2177

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BM050208.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB168269BS	Pyridine	50	40.6	ug/L	81				20 (29)	160 (97)	
	1,4-Dichlorobenzene	50	44.3	ug/L	89				70 (76)	130 (103)	
	2-Methylphenol	50	43.4	ug/L	87				70 (69)	130 (109)	
	3+4-Methylphenols	50	42.7	ug/L	85				20 (67)	160 (106)	
	Hexachloroethane	50	46.2	ug/L	92				20 (76)	160 (118)	
	Nitrobenzene	50	46.8	ug/L	94				70 (58)	130 (106)	
	Hexachlorobutadiene	50	47.0	ug/L	94				70 (69)	130 (101)	
	2,4,6-Trichlorophenol	50	47.9	ug/L	96				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	47.4	ug/L	95				70 (70)	130 (106)	
	2,4-Dinitrotoluene	50	49.4	ug/L	99				70 (60)	130 (115)	
	Hexachlorobenzene	50	47.6	ug/L	95				70 (73)	130 (106)	
	Pentachlorophenol	100	98.6	ug/L	99				20 (47)	160 (114)	

( ) = LABORATORY INHOUSE LIMIT

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168269BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: BM050207.D Lab Sample ID: PB168269BL

Instrument ID: BNA_M Date Extracted: 06/04/2025

Matrix: (soil/water) water Date Analyzed: 06/06/2025

Level: (low/med) LOW Time Analyzed: 10:08

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168269BS	PB168269BS	BM050208.D	06/06/2025
B-187-SB01	Q2177-03	BM050209.D	06/06/2025
B-187-SB01MS	Q2177-03MS	BM050210.D	06/06/2025
B-187-SB01MSD	Q2177-03MSD	BM050211.D	06/06/2025
B-187-SB02	Q2177-05	BM050232.D	06/07/2025
B-202-SB01	Q2177-07	BM050233.D	06/07/2025
PB168224TB	PB168224TB	BM050203.D	06/05/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: BM050193.D DFTPP Injection Date: 06/05/2025

Instrument ID: BNA_M DFTPP Injection Time: 08:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	20.3
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	37.2
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47.5
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	24.6
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	11.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.8 (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
SSTDICC2.5	SSTDICC2.5	BM050194.D	06/05/2025	09:20
SSTDICC005	SSTDICC005	BM050195.D	06/05/2025	09:59
SSTDICC010	SSTDICC010	BM050196.D	06/05/2025	10:38
SSTDICC020	SSTDICC020	BM050197.D	06/05/2025	11:17
SSTDICCC040	SSTDICCC040	BM050198.D	06/05/2025	11:57
SSTDICC050	SSTDICC050	BM050199.D	06/05/2025	12:36
SSTDICC060	SSTDICC060	BM050200.D	06/05/2025	13:16
SSTDICC080	SSTDICC080	BM050201.D	06/05/2025	13:56
PB168224TB	PB168224TB	BM050203.D	06/05/2025	16:35

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: BM050205.D DFTPP Injection Date: 06/06/2025

Instrument ID: BNA_M DFTPP Injection Time: 08:50

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	19.3
68	Less than 2.0% of mass 69	0.5 (1.5) 1
69	Mass 69 relative abundance	34
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	44.7
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	12.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.2 (19.4) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BM050206.D	06/06/2025	09:29
PB168269BL	PB168269BL	BM050207.D	06/06/2025	10:08
PB168269BS	PB168269BS	BM050208.D	06/06/2025	10:47
B-187-SB01	Q2177-03	BM050209.D	06/06/2025	11:27
B-187-SB01MS	Q2177-03MS	BM050210.D	06/06/2025	12:06
B-187-SB01MSD	Q2177-03MSD	BM050211.D	06/06/2025	12:46

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q2177 SDG NO.: Q2177

Lab File ID: BM050222.D DFTPP Injection Date: 06/06/2025

Instrument ID: BNA_M DFTPP Injection Time: 20:43

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	21.3
68	Less than 2.0% of mass 69	0.6 (1.5) 1
69	Mass 69 relative abundance	39.8
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	48.9
197	Less than 2.0% of mass 198	0.2
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	24.9
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	11.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.8 (19.5) 2

1-Value is % mass 69 2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BM050223.D	06/06/2025	21:23
B-187-SB02	Q2177-05	BM050232.D	06/07/2025	03:20
B-202-SB01	Q2177-07	BM050233.D	06/07/2025	04:00

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDICCC040 Date Analyzed: 06/05/2025

Lab File ID: BM050198.D Time Analyzed: 11:57

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	308806	7.793	1316350	10.58	819036	14.42
	UPPER LIMIT	617612	8.293	2632700	11.075	1638070	14.916
	LOWER LIMIT	154403	7.293	658175	10.075	409518	13.916
	EPA SAMPLE NO.						
01	PB168224TB	259307	7.79	956559	10.58	522891	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: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDICCC040 Date Analyzed: 06/05/2025

Lab File ID: BM050198.D Time Analyzed: 11:57

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1590670	17.151	1484490	21.386	1410380	24.374
	UPPER LIMIT	3181340	17.651	2968980	21.886	2820760	24.874
	LOWER LIMIT	795335	16.651	742245	20.886	705190	23.874
	EPA SAMPLE NO.						
01	PB168224TB	932766	17.15	869671	21.38	921150	24.37

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: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/06/2025

Lab File ID: BM050206.D Time Analyzed: 09:29

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	295242	7.787	1183110	10.58	689122	14.42
	UPPER LIMIT	590484	8.287	2366220	11.075	1378240	14.916
	LOWER LIMIT	147621	7.287	591555	10.075	344561	13.916
	EPA SAMPLE NO.						
01	PB168269BL	307416	7.79	1142670	10.58	634427	14.41
02	PB168269BS	327776	7.79	1233280	10.58	655553	14.42
03	B-187-SB01	304642	7.79	1159120	10.58	659350	14.41
04	B-187-SB01MS	326296	7.79	1267570	10.58	684770	14.42
05	B-187-SB01MSD	347769	7.79	1350320	10.58	744312	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: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/06/2025

Lab File ID: BM050206.D Time Analyzed: 09:29

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1340070	17.151	1418640	21.386	1586720	24.368
	UPPER LIMIT	2680140	17.651	2837280	21.886	3173440	24.868
	LOWER LIMIT	670035	16.651	709320	20.886	793360	23.868
	EPA SAMPLE NO.						
01	PB168269BL	1133740	17.15	982238	21.38	1022860	24.37
02	PB168269BS	1123560	17.15	1060560	21.38	1186020	24.37
03	B-187-SB01	1216070	17.15	1157740	21.38	1244730	24.37
04	B-187-SB01MS	1179350	17.15	1089190	21.38	1220890	24.37
05	B-187-SB01MSD	1278960	17.15	1127470	21.39	1245310	24.37

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: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/06/2025

Lab File ID: BM050223.D Time Analyzed: 21:23

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	279322	7.786	1074650	10.58	577654	14.41
	UPPER LIMIT	558644	8.286	2149300	11.075	1155310	14.91
	LOWER LIMIT	139661	7.286	537325	10.075	288827	13.91
	EPA SAMPLE NO.						
01	B-187-SB02	305472	7.79	1153730	10.58	611005	14.41
02	B-202-SB01	306776	7.79	1155500	10.57	625136	14.41

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: CHEMTECH

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG NO.: Q2177

EPA Sample No.: SSTDCCC040 Date Analyzed: 06/06/2025

Lab File ID: BM050223.D Time Analyzed: 21:23

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1020060	17.151	1029160	21.38	1065460	24.362
	UPPER LIMIT	2040120	17.651	2058320	21.88	2130920	24.862
	LOWER LIMIT	510030	16.651	514580	20.88	532730	23.862
	EPA SAMPLE NO.						
01	B-187-SB02	1089580	17.15	1091420	21.37	1171440	24.36
02	B-202-SB01	1109440	17.15	1043230	21.37	1124100	24.36

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.

QC SAMPLE DATA

Raw Data: **BM050207.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168269BL	SDG No.:	Q2177
Lab Sample ID:	PB168269BL	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050207.D	1	06/04/25 08:30	06/06/25 10:08	PB168269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	1.30	U	1.30	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.53	U	0.53	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.0	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	0.62	U	0.62	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	137		15 (23) - 110 (138)	91%	SPK: 150
13127-88-3	Phenol-d6	129		15 (10) - 110 (134)	86%	SPK: 150
4165-60-0	Nitrobenzene-d5	83.4		30 (67) - 130 (132)	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	82.9		30 (52) - 130 (132)	83%	SPK: 100
118-79-6	2,4,6-Tribromophenol	126		15 (44) - 110 (137)	84%	SPK: 150
1718-51-0	Terphenyl-d14	83.7		30 (42) - 130 (152)	84%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	307000	7.787			
1146-65-2	Naphthalene-d8	1140000	10.575			
15067-26-2	Acenaphthene-d10	634000	14.41			
1517-22-2	Phenanthrene-d10	1130000	17.151			
1719-03-5	Chrysene-d12	982000	21.38			
1520-96-3	Perylene-d12	1020000	24.368			

Raw Data: **BM050207.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	PB168269BL			SDG No.:	Q2177
Lab Sample ID:	PB168269BL			Matrix:	TCLP
Analytical Method:	8270E			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050207.D	1	06/04/25 08:30	06/06/25 10:08	PB168269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB168269BS	SDG No.:	Q2177
Lab Sample ID:	PB168269BS	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050208.D	1	06/04/25 08:30	06/06/25 10:47	PB168269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	40.6		1.30	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	44.3		0.53	5.00	ug/L
95-48-7	2-Methylphenol	43.4		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	42.7		1.10	10.0	ug/L
67-72-1	Hexachloroethane	46.2		0.65	5.00	ug/L
98-95-3	Nitrobenzene	46.8		0.76	5.00	ug/L
87-68-3	Hexachlorobutadiene	47.0		0.54	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	47.9		0.51	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	47.4		0.62	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	49.4		1.20	5.00	ug/L
118-74-1	Hexachlorobenzene	47.6		0.52	5.00	ug/L
87-86-5	Pentachlorophenol	98.6	E	1.60	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	131		15 (23) - 110 (138)	87%	SPK: 150
13127-88-3	Phenol-d6	121		15 (10) - 110 (134)	81%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.8		30 (67) - 130 (132)	80%	SPK: 100
321-60-8	2-Fluorobiphenyl	80.2		30 (52) - 130 (132)	80%	SPK: 100
118-79-6	2,4,6-Tribromophenol	123		15 (44) - 110 (137)	82%	SPK: 150
1718-51-0	Terphenyl-d14	79.3		30 (42) - 130 (152)	79%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	328000	7.786			
1146-65-2	Naphthalene-d8	1230000	10.575			
15067-26-2	Acenaphthene-d10	656000	14.415			
1517-22-2	Phenanthrene-d10	1120000	17.151			
1719-03-5	Chrysene-d12	1060000	21.38			
1520-96-3	Perylene-d12	1190000	24.368			

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025			Date Received:	
Client Sample ID:	PB168269BS			SDG No.:	Q2177
Lab Sample ID:	PB168269BS			Matrix:	TCLP
Analytical Method:	8270E			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	TCLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050208.D	1	06/04/25 08:30	06/06/25 10:47	PB168269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Raw Data: **BM050210.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/02/25
Client Sample ID:	B-187-SB01MS	SDG No.:	Q2177
Lab Sample ID:	Q2177-03MS	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050210.D	1	06/04/25 08:30	06/06/25 12:06	PB168269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	370		12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	380		5.30	50.0	ug/L
95-48-7	2-Methylphenol	430		11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	420		11.0	100	ug/L
67-72-1	Hexachloroethane	380		6.50	50.0	ug/L
98-95-3	Nitrobenzene	450		7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	410		5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	480		5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	470		6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	490		12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	470		5.20	50.0	ug/L
87-86-5	Pentachlorophenol	960	E	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	122		15 (23) - 110 (138)	81%	SPK: 150
13127-88-3	Phenol-d6	109		15 (10) - 110 (134)	73%	SPK: 150
4165-60-0	Nitrobenzene-d5	79.5		30 (67) - 130 (132)	79%	SPK: 100
321-60-8	2-Fluorobiphenyl	77.7		30 (52) - 130 (132)	78%	SPK: 100
118-79-6	2,4,6-Tribromophenol	124		15 (44) - 110 (137)	83%	SPK: 150
1718-51-0	Terphenyl-d14	79.5		30 (42) - 130 (152)	79%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	326000	7.787			
1146-65-2	Naphthalene-d8	1270000	10.575			
15067-26-2	Acenaphthene-d10	685000	14.416			
1517-22-2	Phenanthrene-d10	1180000	17.151			
1719-03-5	Chrysene-d12	1090000	21.38			
1520-96-3	Perylene-d12	1220000	24.368			

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/02/25
Client Sample ID:	B-187-SB01MS	SDG No.:	Q2177
Lab Sample ID:	Q2177-03MS	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050210.D	1	06/04/25 08:30	06/06/25 12:06	PB168269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	05/31/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	06/02/25
Client Sample ID:	B-187-SB01MSD	SDG No.:	Q2177
Lab Sample ID:	Q2177-03MSD	Matrix:	TCLP
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050211.D	1	06/04/25 08:30	06/06/25 12:46	PB168269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	350		12.8	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	360		5.30	50.0	ug/L
95-48-7	2-Methylphenol	420		11.2	50.0	ug/L
65794-96-9	3+4-Methylphenols	410		11.0	100	ug/L
67-72-1	Hexachloroethane	360		6.50	50.0	ug/L
98-95-3	Nitrobenzene	430		7.60	50.0	ug/L
87-68-3	Hexachlorobutadiene	400		5.40	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	470		5.10	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	460		6.20	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	480		12.2	50.0	ug/L
118-74-1	Hexachlorobenzene	460		5.20	50.0	ug/L
87-86-5	Pentachlorophenol	920	E	15.8	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	117		15 (23) - 110 (138)	78%	SPK: 150
13127-88-3	Phenol-d6	106		15 (10) - 110 (134)	71%	SPK: 150
4165-60-0	Nitrobenzene-d5	77.2		30 (67) - 130 (132)	77%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.1		30 (52) - 130 (132)	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	121		15 (44) - 110 (137)	80%	SPK: 150
1718-51-0	Terphenyl-d14	78.0		30 (42) - 130 (152)	78%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	348000	7.786			
1146-65-2	Naphthalene-d8	1350000	10.575			
15067-26-2	Acenaphthene-d10	744000	14.415			
1517-22-2	Phenanthrene-d10	1280000	17.151			
1719-03-5	Chrysene-d12	1130000	21.386			
1520-96-3	Perylene-d12	1250000	24.368			

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Report of Analysis

Client:	Portal Partners Tri-Venture		Date Collected:	05/31/25	
Project:	Amtrak Sawtooth Bridges 2025		Date Received:	06/02/25	
Client Sample ID:	B-187-SB01MSD		SDG No.:	Q2177	
Lab Sample ID:	Q2177-03MSD		Matrix:	TCLP	
Analytical Method:	8270E		% Solid:	0	
Sample Wt/Vol:	100 Units:	mL	Final Vol:	1000	uL
Soil Aliquot Vol:		uL	Test:	TCLP BNA	
Extraction Type :		Decanted : N	Level :	LOW	
Injection Volume :		GPC Factor : 1.0	GPC Cleanup :	N	PH :
Prep Method :	SW3510C				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM050211.D	1	06/04/25 08:30	06/06/25 12:46	PB168269

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_M

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM060525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Jun 05 16:20:25 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BM050194.D 5 =BM050195.D 10 =BM050196.D 20 =BM050197.D 40 =BM050198.D 50 =BM050199.D 60 =BM050200.D 80 =BM0502
01.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.597	0.552	0.516	0.479	0.511	0.536	0.488	0.526	7.69
3)		Pyridine		1.353	1.352	1.370	1.311	1.425	1.389	1.326	1.361	2.80
4)		n-Nitrosodimet...		0.283	0.265	0.279	0.272	0.297	0.293	0.282	0.281	3.95
5)	S	2-Fluorophenol		1.251	1.193	1.192	1.145	1.238	1.224	1.150	1.199	3.45
6)		Aniline		2.033	2.016	2.147	2.065	2.250	2.064	2.031	2.086	4.02
7)	S	Phenol-d6		1.569	1.521	1.617	1.565	1.699	1.560	1.516	1.578	4.00
8)		2-Chlorophenol		1.289	1.259	1.344	1.295	1.418	1.338	1.288	1.319	4.02
9)		Benzaldehyde		1.188	1.080	1.096	0.878	0.975	0.804		1.003	14.43
10)	C	Phenol		1.673	1.644	1.710	1.644	1.782	1.637	1.600	1.670	3.58
11)		bis(2-Chloroet...		1.396	1.319	1.380	1.315	1.428	1.295	1.269	1.343	4.36
12)		1,3-Dichlorobe...		1.516	1.462	1.491	1.412	1.545	1.485	1.409	1.474	3.46
13)	C	1,4-Dichlorobe...		1.619	1.544	1.564	1.450	1.591	1.525	1.444	1.534	4.34
14)		1,2-Dichlorobe...		1.503	1.456	1.492	1.402	1.540	1.450	1.392	1.462	3.68
15)		Benzyl Alcohol		1.072	1.045	1.152	1.141	1.267	1.102	1.101	1.126	6.43
16)		2,2'-oxybis(1-...		1.012	0.949	0.974	0.909	0.978	0.863	0.845	0.933	6.68
17)		2-Methylphenol		1.078	1.042	1.133	1.108	1.207	1.077	1.068	1.102	4.96
18)		Hexachloroethane		0.564	0.544	0.552	0.533	0.593	0.559	0.543	0.556	3.51
19)	P	n-Nitroso-di-n...	0.847	0.944	0.947	1.072	1.001	1.096	0.906	0.913	0.966	8.82
20)		3+4-Methylphenols		1.367	1.375	1.533	1.509	1.661	1.437	1.438	1.474	6.98
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.515	0.506	0.517	0.476	0.519	0.495	0.470	0.500	4.03
23)	S	Nitrobenzene-d5		0.359	0.362	0.392	0.377	0.414	0.406	0.382	0.385	5.42
24)		Nitrobenzene		0.333	0.337	0.359	0.339	0.370	0.363	0.347	0.350	4.10
25)		Isophorone		0.647	0.624	0.685	0.659	0.733	0.652	0.646	0.664	5.33
26)	C	2-Nitrophenol		0.116	0.124	0.146	0.155	0.178	0.169	0.169	0.151	15.65
27)		2,4-Dimethylph...		0.311	0.298	0.315	0.303	0.332	0.313	0.299	0.310	3.80
28)		bis(2-Chloroet...		0.426	0.413	0.447	0.427	0.470	0.432	0.420	0.434	4.42
29)	C	2,4-Dichloroph...		0.265	0.262	0.289	0.286	0.319	0.300	0.289	0.287	6.83
30)		1,2,4-Trichlor...		0.324	0.307	0.321	0.305	0.337	0.330	0.312	0.319	3.72
31)		Naphthalene		1.111	1.041	1.056	0.977	1.061	1.025	0.969	1.034	4.79
32)		Benzoic acid			0.127	0.176	0.204	0.233	0.211	0.219	0.195	19.69
33)		4-Chloroaniline		0.438	0.423	0.454	0.433	0.477	0.440	0.422	0.441	4.37
34)	C	Hexachlorobuta...		0.188	0.184	0.189	0.182	0.202	0.197	0.188	0.190	3.74
35)		Caprolactam		0.077	0.077	0.093	0.097	0.112	0.092	0.090	0.091	13.48
36)	C	4-Chloro-3-met...		0.293	0.276	0.313	0.313	0.347	0.302	0.299	0.306	7.19
37)		2-Methylnaphth...		0.625	0.592	0.643	0.615	0.679	0.619	0.594	0.624	4.78
38)		1-Methylnaphth...		0.676	0.637	0.689	0.649	0.714	0.648	0.622	0.662	4.86

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM060525.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.586	0.561	0.585	0.541	0.589	0.607	0.574	0.578	3.71
41)	P	Hexachlorocycl...	0.295	0.305	0.339	0.341	0.382	0.401	0.392	0.351	12.02
42)	S	2,4,6-Tribromo...	0.210	0.213	0.238	0.231	0.254	0.233	0.214	0.227	6.99
43)	C	2,4,6-Trichlor...	0.346	0.347	0.379	0.375	0.414	0.402	0.396	0.380	6.93
44)		2,4,5-Trichlor...	0.371	0.382	0.424	0.414	0.457	0.442	0.429	0.417	7.46
45)	S	2-Fluorobiphenyl	1.589	1.536	1.532	1.377	1.463	1.480	1.364	1.477	5.67
46)		1,1'-Biphenyl	1.582	1.513	1.514	1.404	1.526	1.508	1.437	1.498	3.96
47)		2-Chloronaphth...	1.221	1.194	1.180	1.084	1.171	1.177	1.123	1.164	3.94
48)		2-Nitroaniline	0.200	0.206	0.252	0.268	0.302	0.290	0.277	0.256	15.56
49)		Acenaphthylene	1.863	1.834	1.940	1.819	1.978	1.924	1.824	1.883	3.39
50)		Dimethylphthalate	1.339	1.285	1.398	1.343	1.474	1.344	1.284	1.353	4.92
51)		2,6-Dinitrotol...	0.204	0.231	0.284	0.289	0.320	0.297	0.284	0.273	14.82
52)	C	Acenaphthene	1.217	1.176	1.185	1.132	1.228	1.181	1.127	1.178	3.24
53)		3-Nitroaniline	0.231	0.252	0.312	0.323	0.360	0.336	0.314	0.304	15.16
54)	P	2,4-Dinitrophenol		0.093	0.131	0.152	0.179	0.160	0.160	0.146	20.67
55)		Dibenzofuran	1.782	1.710	1.775	1.662	1.797	1.719	1.617	1.723	3.87
56)	P	4-Nitrophenol	0.199	0.216	0.265	0.274	0.307	0.288	0.262	0.259	14.93
57)		2,4-Dinitrotol...	0.250	0.283	0.365	0.396	0.447	0.398	0.380	0.360	19.28
58)		Fluorene	1.413	1.358	1.394	1.267	1.348	1.289	1.169	1.320	6.40
59)		2,3,4,6-Tetrac...	0.338	0.330	0.370	0.365	0.401	0.371	0.350	0.361	6.60
60)		Diethylphthalate	1.314	1.272	1.416	1.346	1.490	1.317	1.238	1.342	6.43
61)		4-Chlorophenyl...	0.675	0.656	0.667	0.611	0.660	0.623	0.573	0.638	5.81
62)		4-Nitroaniline	0.213	0.236	0.291	0.308	0.342	0.319	0.285	0.285	16.00
63)		Azobenzene	1.342	1.330	1.415	1.313	1.443	1.316	1.230	1.341	5.25
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.075	0.101	0.111	0.128	0.120	0.121	0.109	17.72
66)	c	n-Nitrosodiphe...	0.630	0.626	0.639	0.594	0.646	0.639	0.625	0.628	2.73
67)		4-Bromophenyl-...	0.207	0.204	0.215	0.204	0.228	0.217	0.218	0.213	4.13
68)		Hexachlorobenzene	0.249	0.240	0.253	0.238	0.261	0.255	0.249	0.249	3.29
69)		Atrazine	0.166	0.177	0.206	0.206	0.231	0.212	0.204	0.200	10.86
70)	C	Pentachlorophenol	0.133	0.138	0.165	0.164	0.187	0.177	0.171	0.162	12.21
71)		Phenanthrene	1.239	1.156	1.160	1.071	1.161	1.144	1.068	1.143	5.14
72)		Anthracene	1.167	1.135	1.175	1.086	1.181	1.165	1.092	1.143	3.46
73)		Carbazole	1.041	1.003	1.063	1.009	1.103	1.085	0.985	1.041	4.30
74)		Di-n-butylphth...	0.998	1.007	1.187	1.159	1.300	1.187	1.093	1.133	9.53
75)	C	Fluoranthene	1.180	1.139	1.231	1.178	1.301	1.284	1.121	1.205	5.77
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.381	0.568	0.617	0.689	0.600	0.520	0.562	18.64
78)		Pyrene	1.331	1.307	1.444	1.324	1.423	1.274	1.334	1.348	4.61
79)	S	Terphenyl-d14	1.148	1.088	1.165	1.010	1.064	0.955	0.957	1.055	8.06
80)		Butylbenzylpht...	0.322	0.347	0.460	0.490	0.563	0.480	0.485	0.450	18.95
81)		Benzo(a)anthra...	1.271	1.231	1.298	1.218	1.338	1.280	1.225	1.266	3.47
82)		3,3'-Dichlorob...	0.265	0.301	0.379	0.415	0.476	0.450	0.416	0.386	19.97
83)		Chrysene	1.235	1.184	1.225	1.151	1.256	1.217	1.161	1.204	3.27
84)		Bis(2-ethylhex...	0.525	0.574	0.702	0.740	0.851	0.741	0.714	0.693	15.84
85)	c	Di-n-octyl pht...	0.641	0.729	0.936	1.114	1.359	1.245	1.169	1.028	26.08

Method Path : Z:\svoasrv\HPCHEM1\BNA_M\Methods\
Method File : 8270-BM060525.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.189	1.183	1.254	1.191	1.318	1.472	1.407	1.288	8.99
88)		Benzo(b)fluora...	1.104	1.082	1.205	1.170	1.269	1.178	1.132	1.163	5.46
89)		Benzo(k)fluora...	1.141	1.149	1.222	1.167	1.295	1.190	1.144	1.187	4.71
90)	C	Benzo(a)pyrene	0.994	1.007	1.111	1.081	1.197	1.153	1.111	1.093	6.73
91)		Dibenzo(a,h)an...	0.954	0.966	1.021	0.972	1.075	1.188	1.141	1.045	8.83
92)		Benzo(g,h,i)pe...	1.002	0.978	1.013	0.954	1.037	1.194	1.146	1.046	8.57

(#) = Out of Range

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: BNA_M Calibration Date/Time: 06/06/2025 09:29

Lab File ID: BM050206.D Init. Calib. Date(s): 06/05/2025 06/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:20 13:56

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.361	1.358		-0.2	
2-Fluorophenol	1.199	1.202		0.3	
Phenol-d6	1.578	1.546		-2.0	
1,4-Dichlorobenzene	1.534	1.457		-5.0	20.0
2-Methylphenol	1.102	1.055		-4.3	
3+4-Methylphenols	1.474	1.406		-4.6	
Nitrobenzene-d5	0.385	0.379		-1.6	
Hexachloroethane	0.555	0.534		-3.8	
Nitrobenzene	0.350	0.343		-2.0	
Hexachlorobutadiene	0.190	0.177		-6.8	20.0
2,4,6-Trichlorophenol	0.380	0.368		-3.2	20.0
2-Fluorobiphenyl	1.477	1.393		-5.7	
2,4,5-Trichlorophenol	0.417	0.407		-2.4	
2,4-Dinitrotoluene	0.360	0.386		7.2	
2,4,6-Tribromophenol	0.227	0.225		-0.9	
Hexachlorobenzene	0.249	0.231		-7.2	
Pentachlorophenol	0.162	0.161		-0.6	20.0
Terphenyl-d14	1.055	0.942		-10.7	

All other compounds must meet a minimum RRF of 0.010.

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: BNA_M Calibration Date/Time: 06/06/2025 21:23

Lab File ID: BM050223.D Init. Calib. Date(s): 06/05/2025 06/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:20 13:56

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.361	1.385		1.8	
2-Fluorophenol	1.199	1.211		1.0	
Phenol-d6	1.578	1.509		-4.4	
1,4-Dichlorobenzene	1.534	1.456		-5.1	20.0
2-Methylphenol	1.102	1.030		-6.5	
3+4-Methylphenols	1.474	1.350		-8.4	
Nitrobenzene-d5	0.385	0.383		-0.5	
Hexachloroethane	0.555	0.553		-0.4	
Nitrobenzene	0.350	0.352		0.6	
Hexachlorobutadiene	0.190	0.178		-6.3	20.0
2,4,6-Trichlorophenol	0.380	0.368		-3.2	20.0
2-Fluorobiphenyl	1.477	1.470		-0.5	
2,4,5-Trichlorophenol	0.417	0.402		-3.6	
2,4-Dinitrotoluene	0.360	0.337		-6.4	
2,4,6-Tribromophenol	0.227	0.216		-4.8	
Hexachlorobenzene	0.249	0.244		-2.0	
Pentachlorophenol	0.162	0.221		36.4	20.0
Terphenyl-d14	1.055	1.019		-3.4	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060525\
Data File : BM050203.D
Acq On : 05 Jun 2025 16:35
Operator : RC/JU
Sample : PB168224TB
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB168224TB

Quant Time: Jun 05 17:43:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

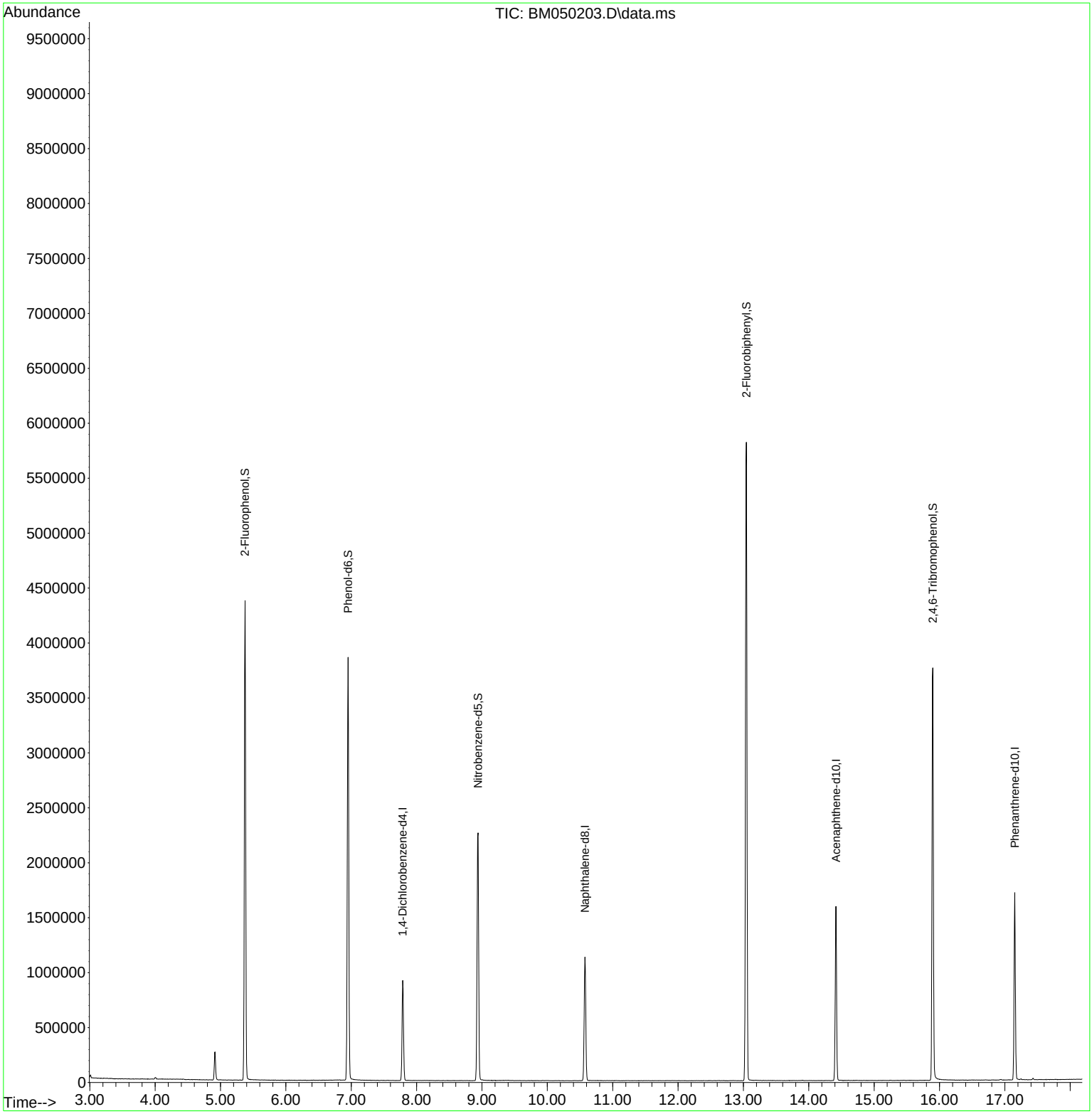
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.787	152	259307	20.000	ng	0.00
21) Naphthalene-d8	10.575	136	956559	20.000	ng	0.00
39) Acenaphthene-d10	14.416	164	522891	20.000	ng	0.00
64) Phenanthrene-d10	17.151	188	932766	20.000	ng	0.00
76) Chrysene-d12	21.380	240	869671	20.000	ng	0.00
86) Perylene-d12	24.374	264	921150	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	2041130	131.307	ng	0.00
7) Phenol-d6	6.952	99	2485850	121.480	ng	0.00
23) Nitrobenzene-d5	8.940	82	1472280	80.048	ng	0.00
42) 2,4,6-Tribromophenol	15.898	330	712283	119.761	ng	0.00
45) 2-Fluorobiphenyl	13.045	172	3094556	80.123	ng	0.00
79) Terphenyl-d14	19.780	244	3588909	78.203	ng	0.00
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060525\
Data File : BM050203.D
Acq On : 05 Jun 2025 16:35
Operator : RC/JU
Sample : PB168224TB
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB168224TB

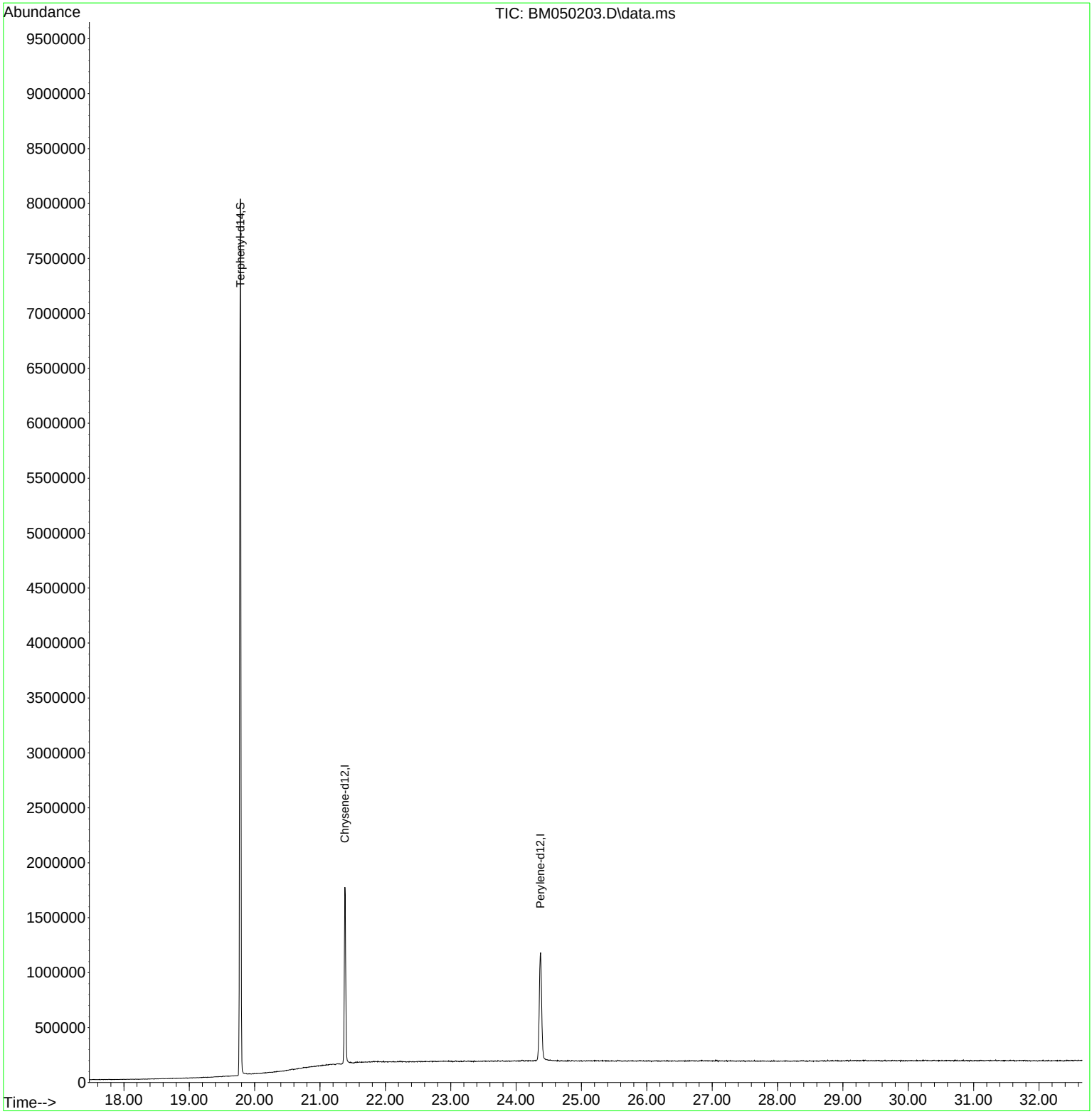
Quant Time: Jun 05 17:43:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

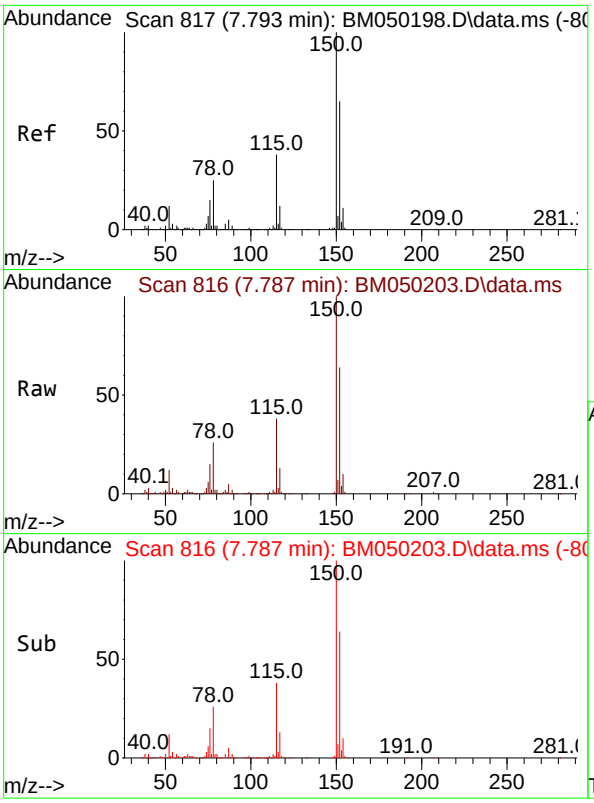


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060525\
Data File : BM050203.D
Acq On : 05 Jun 2025 16:35
Operator : RC/JU
Sample : PB168224TB
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB168224TB

Quant Time: Jun 05 17:43:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration



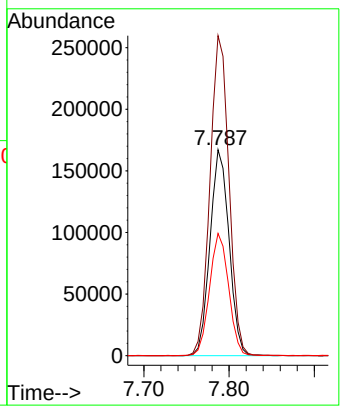


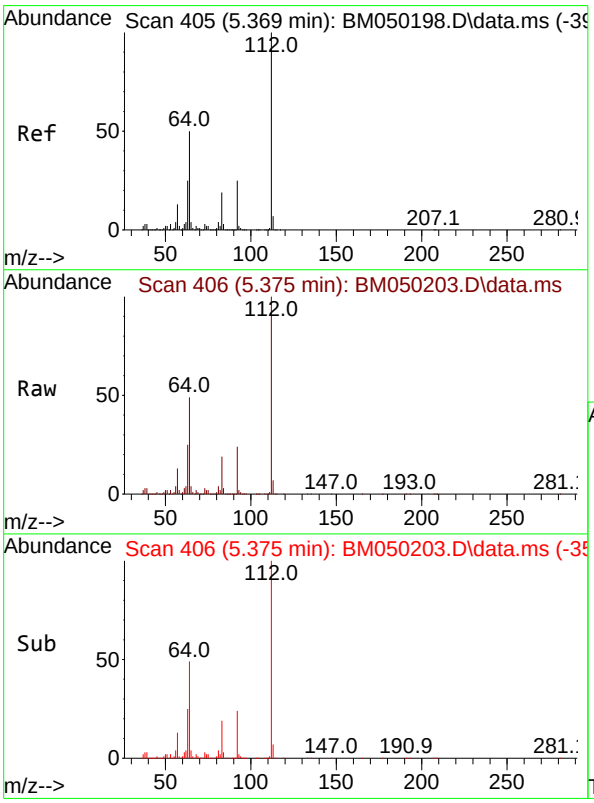
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.787 min Scan# 81
Delta R.T. -0.006 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

Instrument :
BNA_M
ClientSampleId :
PB168224TB

Tgt Ion:152 Resp: 259307

Ion	Ratio	Lower	Upper
152	100		
150	155.4	122.2	183.4
115	59.4	46.3	69.5

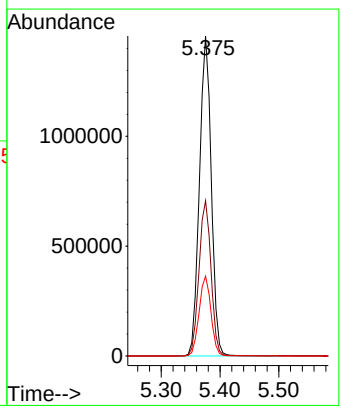


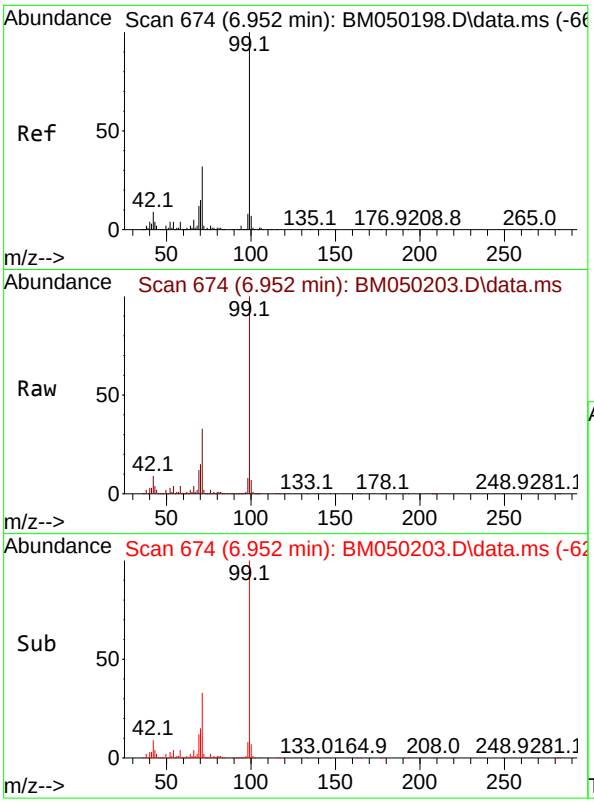


#5
2-Fluorophenol
Concen: 131.307 ng
RT: 5.375 min Scan# 406
Delta R.T. 0.000 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

Tgt Ion:112 Resp: 2041130

Ion	Ratio	Lower	Upper
112	100		
64	48.5	39.8	59.6
63	24.9	19.8	29.8



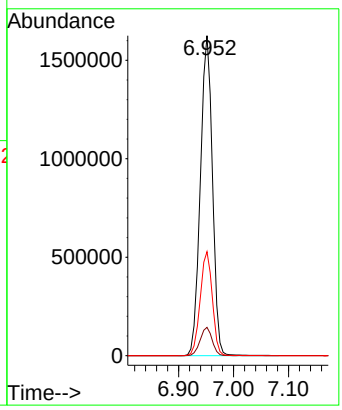


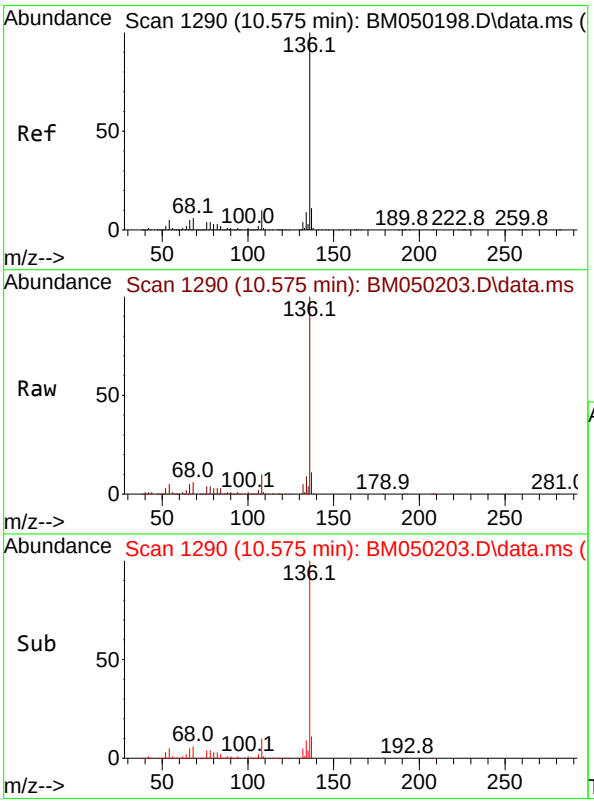
#7
Phenol-d6
Concen: 121.480 ng
RT: 6.952 min Scan# 6
Delta R.T. -0.006 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

Instrument :
BNA_M
ClientSampleId :
PB168224TB

Tgt Ion: 99 Resp: 2485850

Ion	Ratio	Lower	Upper
99	100		
42	8.8	6.9	10.3
71	32.5	25.3	37.9

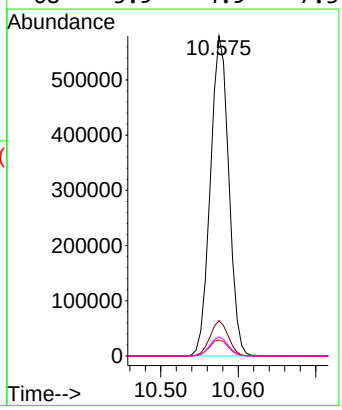


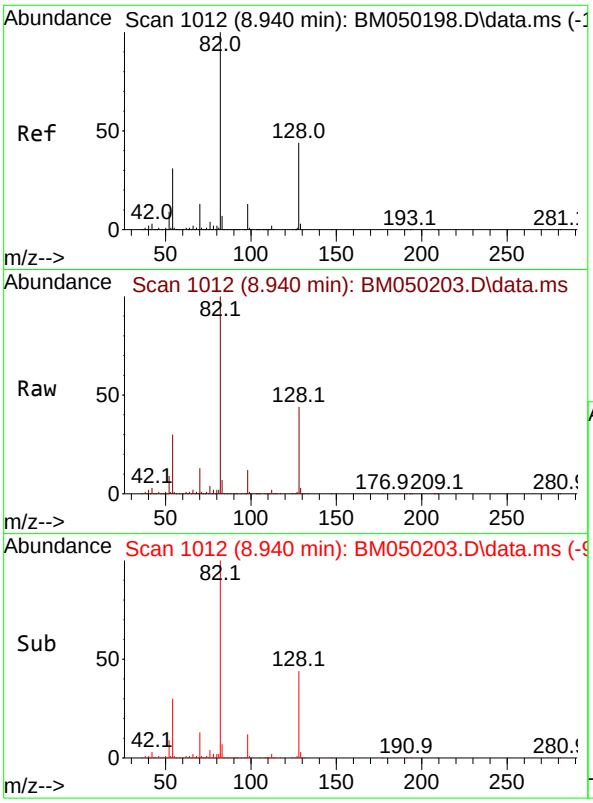


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.575 min Scan# 1290
Delta R.T. -0.006 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

Tgt Ion:136 Resp: 956559

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	5.0	3.8	5.8
68	5.9	4.9	7.3



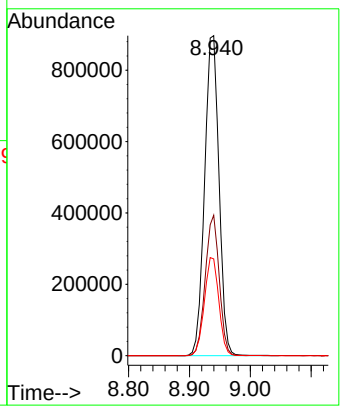


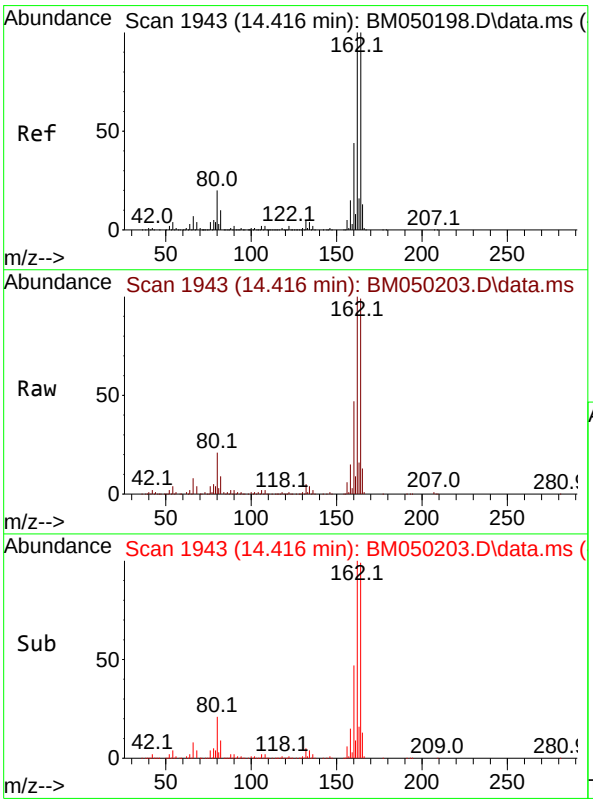
#23
Nitrobenzene-d5
Concen: 80.048 ng
RT: 8.940 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

Instrument :
BNA_M
ClientSampleId :
PB168224TB

Tgt Ion: 82 Resp: 1472280

Ion	Ratio	Lower	Upper
82	100		
128	43.9	35.2	52.8
54	30.3	24.5	36.7

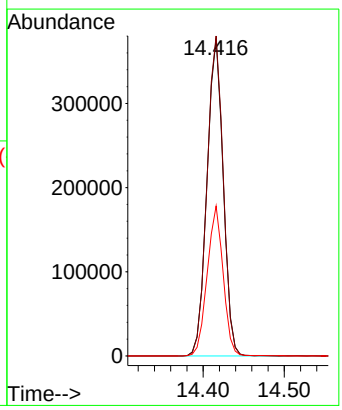


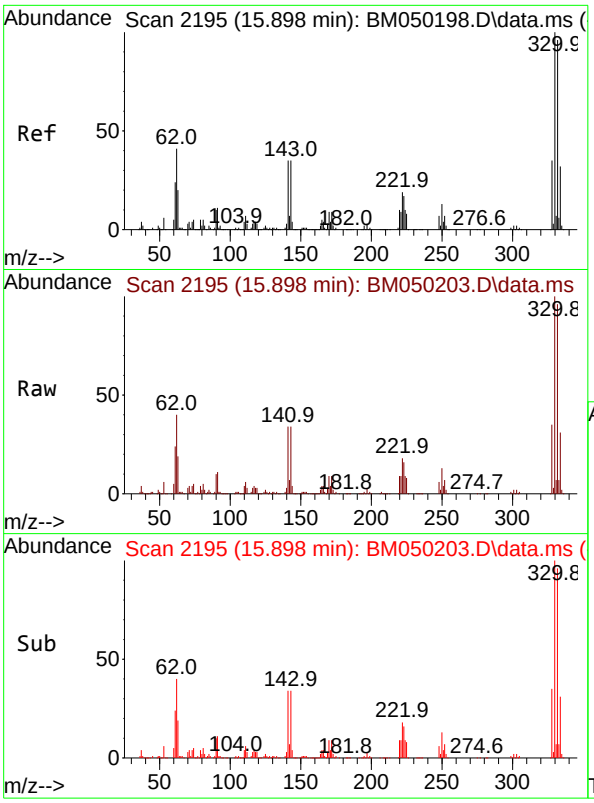


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.416 min Scan# 1943
Delta R.T. 0.000 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

Tgt Ion:164 Resp: 522891

Ion	Ratio	Lower	Upper
164	100		
162	100.8	80.2	120.4
160	47.2	35.7	53.5



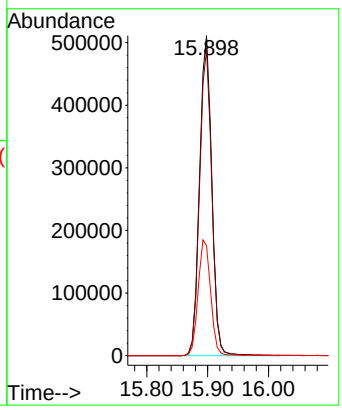


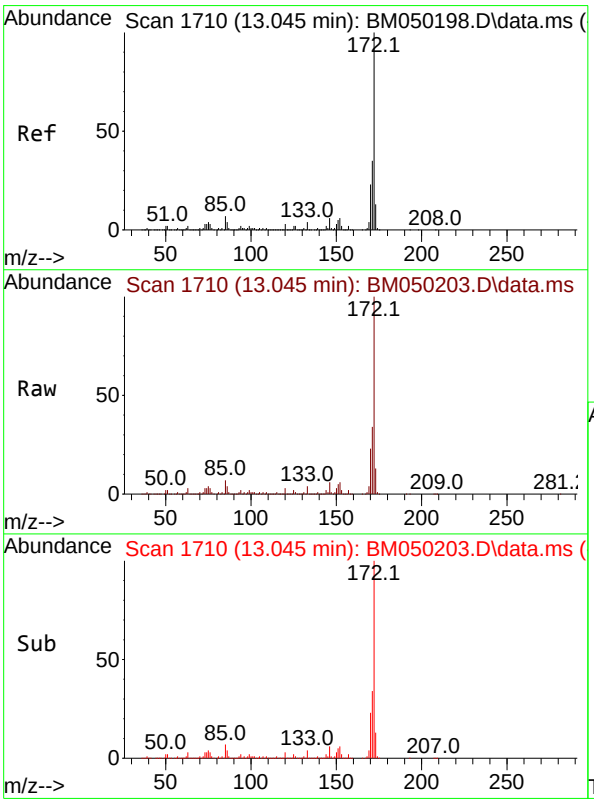
#42
2,4,6-Tribromophenol
Concen: 119.761 ng
RT: 15.898 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

Instrument :
BNA_M
ClientSampleId :
PB168224TB

Tgt Ion:330 Resp: 712283

Ion	Ratio	Lower	Upper
330	100		
332	96.0	77.5	116.3
141	37.0	28.8	43.2

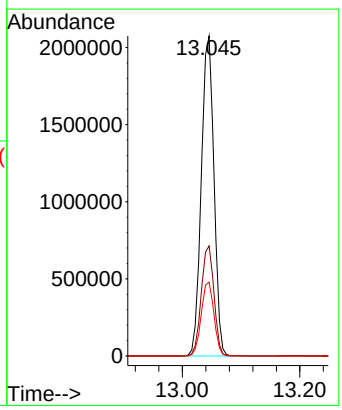


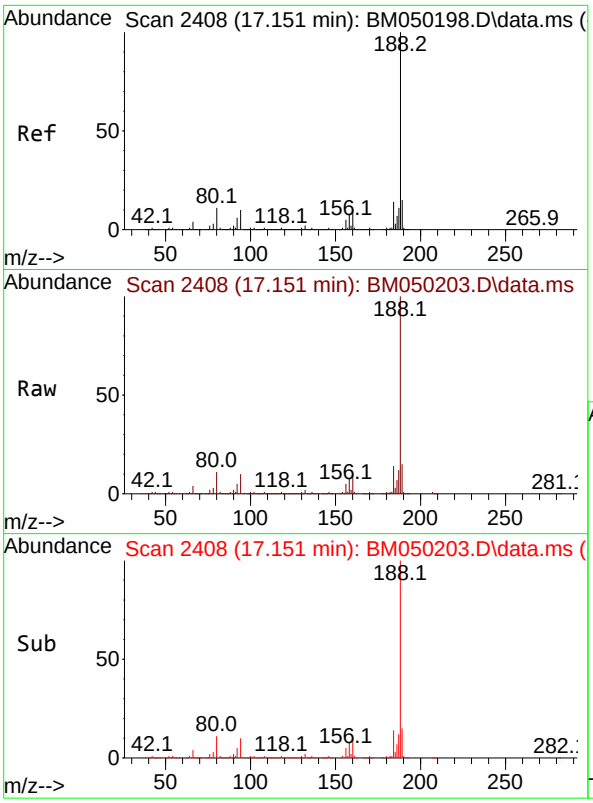


#45
2-Fluorobiphenyl
Concen: 80.123 ng
RT: 13.045 min Scan# 1710
Delta R.T. -0.006 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

Tgt Ion:172 Resp: 3094556

Ion	Ratio	Lower	Upper
172	100		
171	34.4	27.8	41.6
170	23.0	18.6	27.8



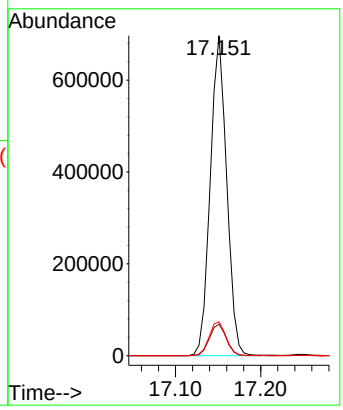


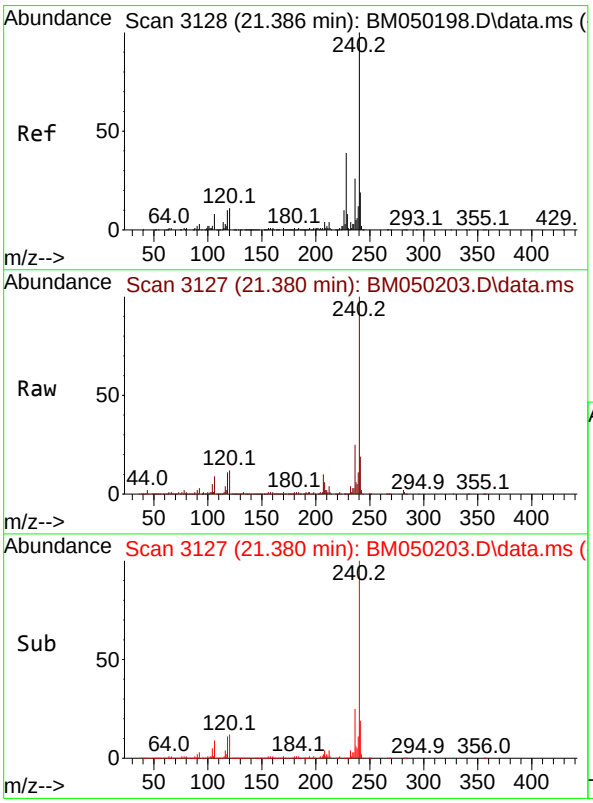
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.151 min Scan# 24
Delta R.T. -0.006 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

Instrument :
BNA_M
ClientSampleId :
PB168224TB

Tgt Ion:188 Resp: 932766

Ion	Ratio	Lower	Upper
188	100		
94	9.9	8.1	12.1
80	10.6	8.6	13.0

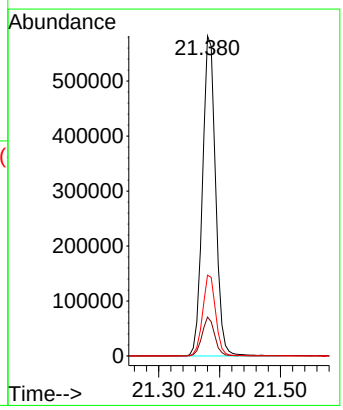


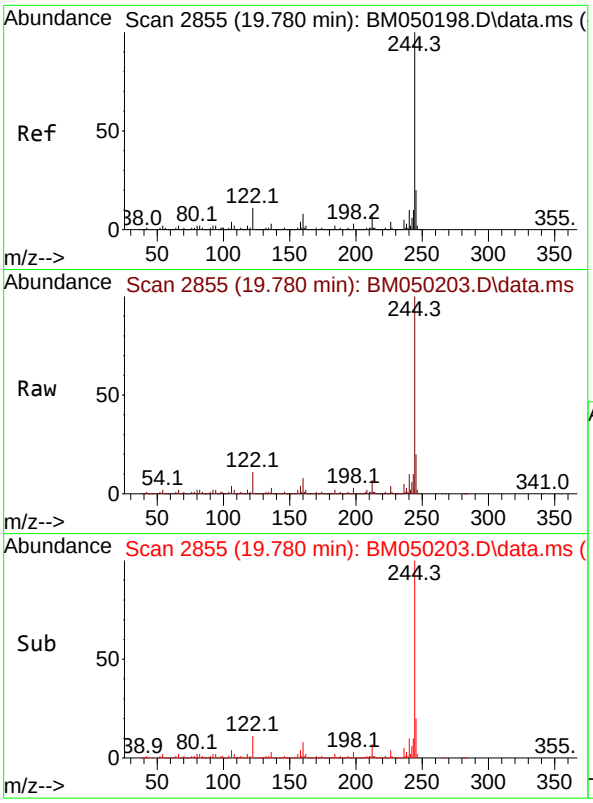


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.380 min Scan# 3127
Delta R.T. -0.006 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

Tgt Ion:240 Resp: 869671

Ion	Ratio	Lower	Upper
240	100		
120	12.2	9.0	13.4
236	25.2	20.7	31.1



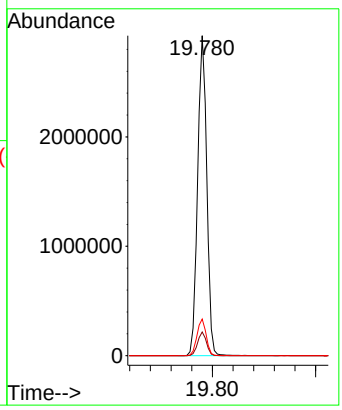


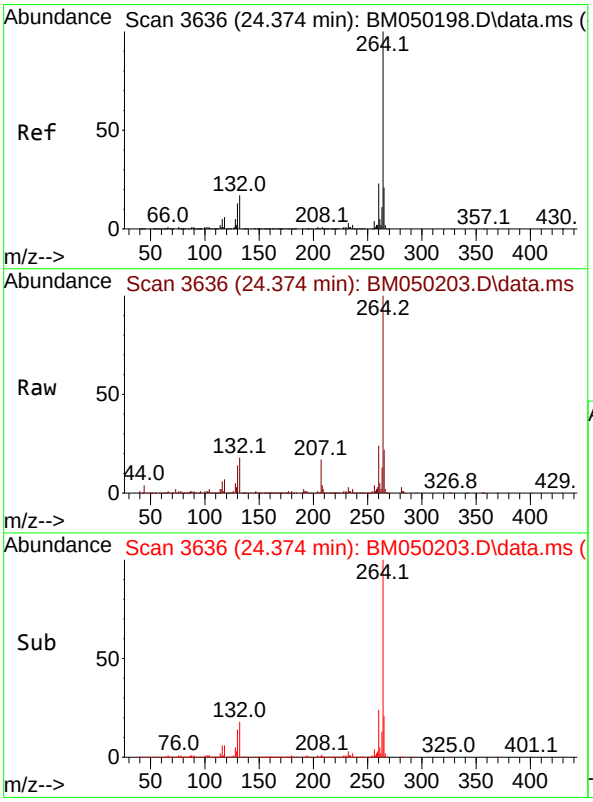
#79
Terphenyl-d14
Concen: 78.203 ng
RT: 19.780 min Scan# 2
Delta R.T. -0.006 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

Instrument :
BNA_M
ClientSampleId :
PB168224TB

Tgt Ion:244 Resp: 3588909

Ion	Ratio	Lower	Upper
244	100		
212	7.4	6.0	9.0
122	11.4	8.6	12.8

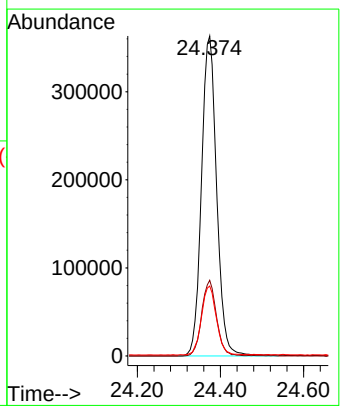




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.374 min Scan# 3636
Delta R.T. 0.000 min
Lab File: BM050203.D
Acq: 05 Jun 2025 16:35

Tgt Ion:264 Resp: 921150

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.6	28.0
265	21.8	16.8	25.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050209.D
Acq On : 06 Jun 2025 11:27
Operator : RC/JU
Sample : Q2177-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-187-SB01

Quant Time: Jun 06 12:11:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

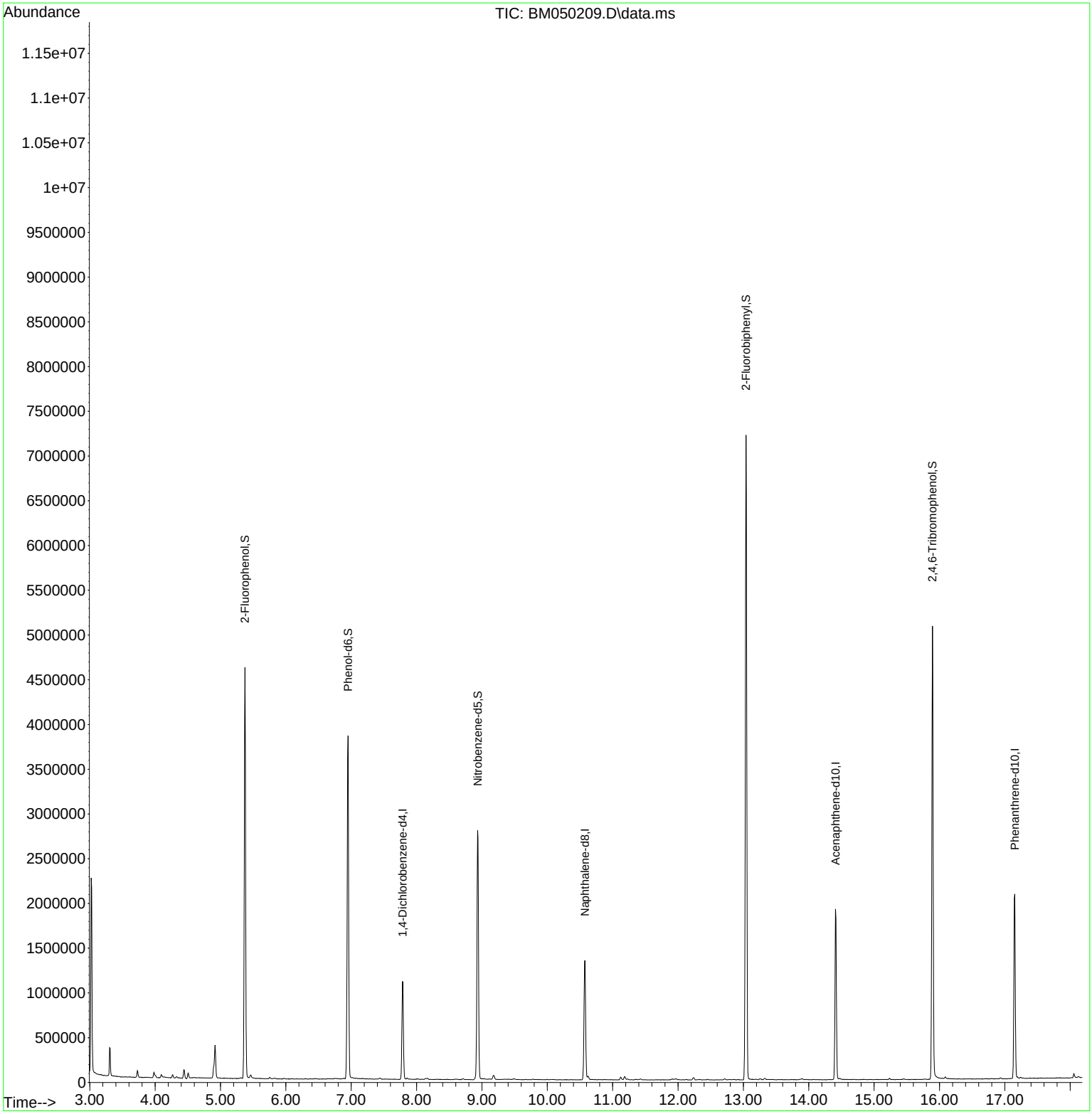
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.787	152	304642	20.000	ng	0.00
21) Naphthalene-d8	10.575	136	1159115	20.000	ng	0.00
39) Acenaphthene-d10	14.410	164	659350	20.000	ng	0.00
64) Phenanthrene-d10	17.151	188	1216071	20.000	ng	0.00
76) Chrysene-d12	21.380	240	1157737	20.000	ng	0.00
86) Perylene-d12	24.368	264	1244732	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	2178864	119.309	ng	0.00
7) Phenol-d6	6.951	99	2491728	103.646	ng	0.00
23) Nitrobenzene-d5	8.934	82	1787618	80.208	ng	-0.01
42) 2,4,6-Tribromophenol	15.892	330	943327	125.783	ng	-0.01
45) 2-Fluorobiphenyl	13.039	172	3806562	78.161	ng	-0.01
79) Terphenyl-d14	19.780	244	4737529	77.545	ng	0.00
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050209.D
Acq On : 06 Jun 2025 11:27
Operator : RC/JU
Sample : Q2177-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-187-SB01

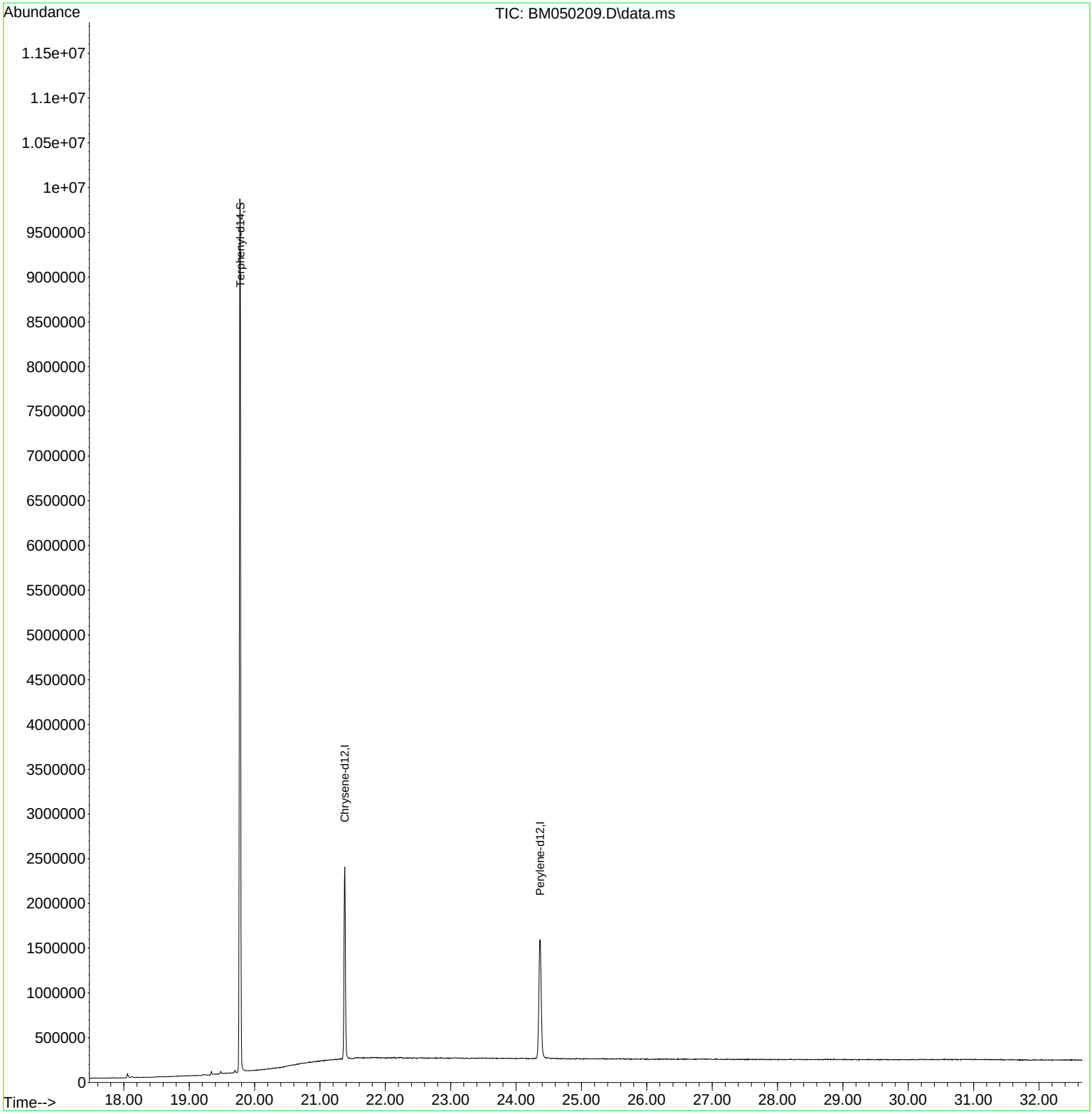
Quant Time: Jun 06 12:11:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

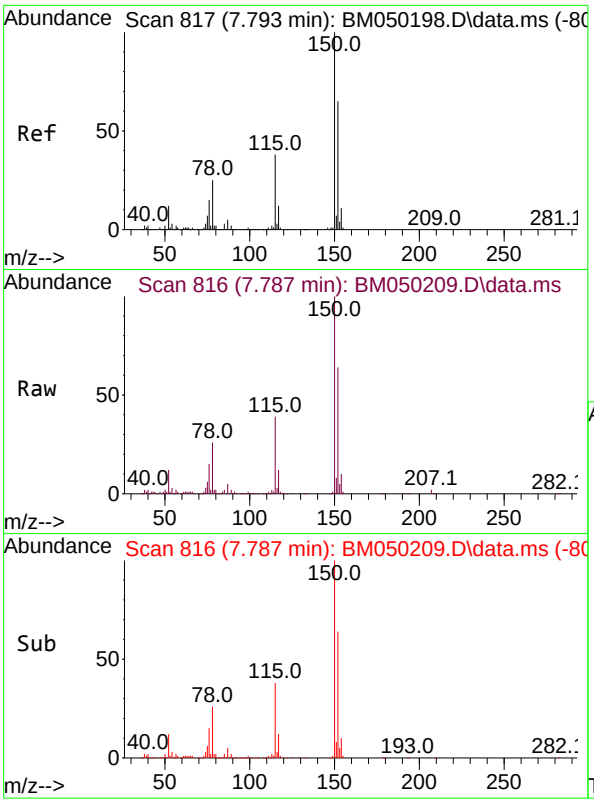


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050209.D
Acq On : 06 Jun 2025 11:27
Operator : RC/JU
Sample : Q2177-03
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-187-SB01

Quant Time: Jun 06 12:11:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration



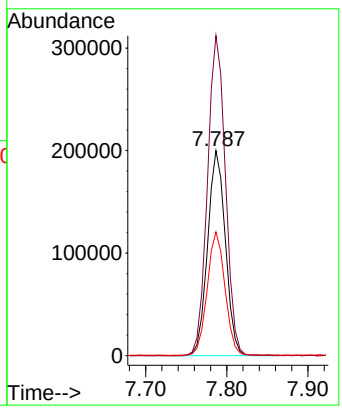


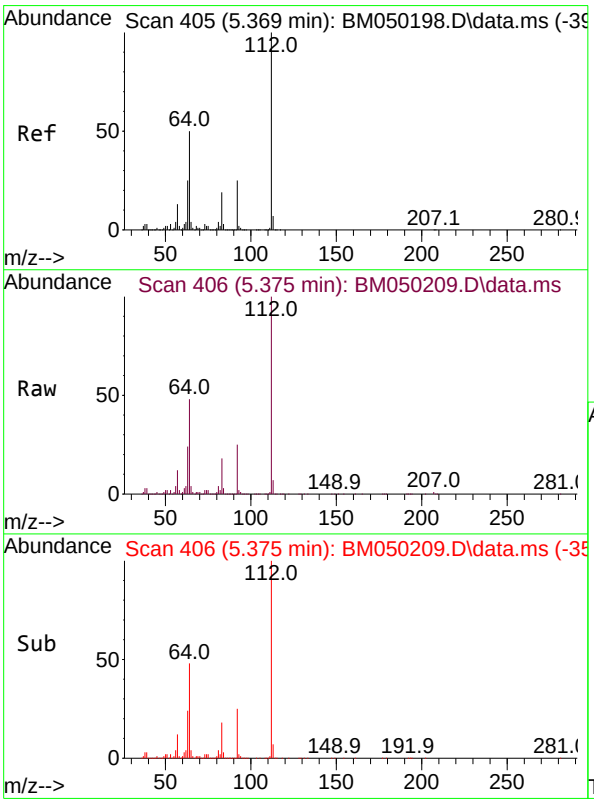
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.787 min Scan# 81
Delta R.T. -0.006 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

Instrument :
BNA_M
ClientSampleId :
B-187-SB01

Tgt Ion:152 Resp: 304642

Ion	Ratio	Lower	Upper
152	100		
150	156.1	122.2	183.4
115	60.3	46.3	69.5

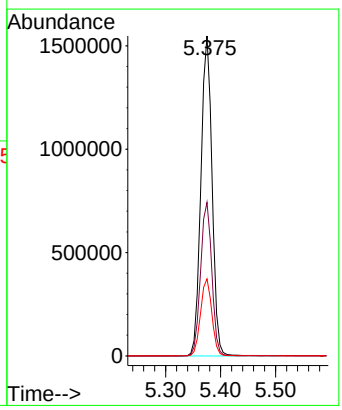


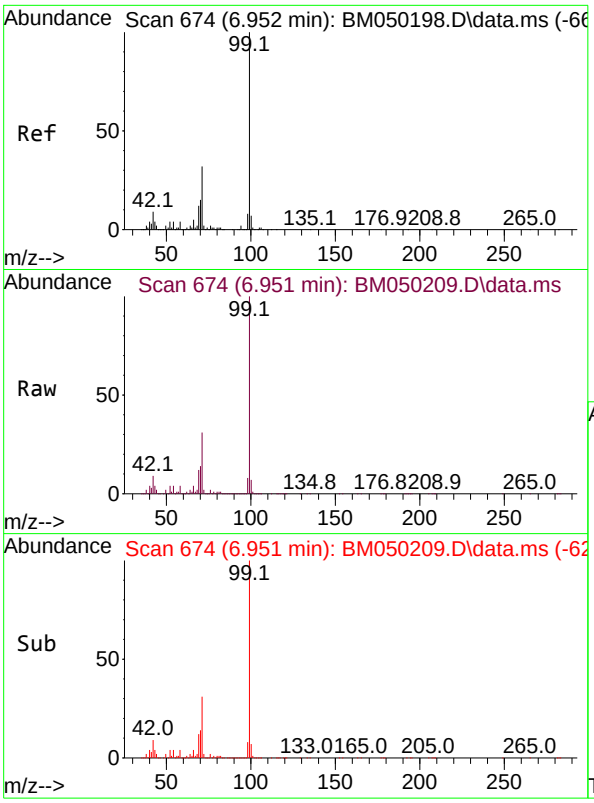


#5
2-Fluorophenol
Concen: 119.309 ng
RT: 5.375 min Scan# 406
Delta R.T. -0.000 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

Tgt Ion:112 Resp: 2178864

Ion	Ratio	Lower	Upper
112	100		
64	48.0	39.8	59.6
63	24.1	19.8	29.8



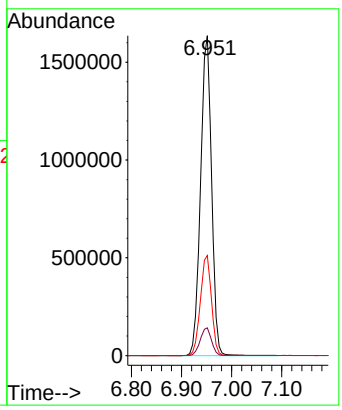


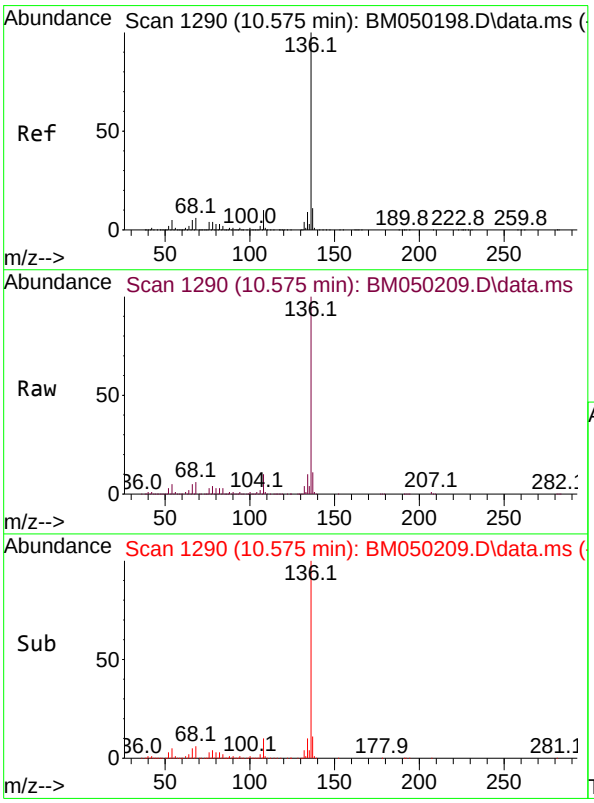
#7
Phenol-d6
Concen: 103.646 ng
RT: 6.951 min Scan# 6
Delta R.T. -0.006 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

Instrument :
BNA_M
ClientSampleId :
B-187-SB01

Tgt Ion: 99 Resp: 2491728

Ion	Ratio	Lower	Upper
99	100		
42	8.7	6.9	10.3
71	31.3	25.3	37.9

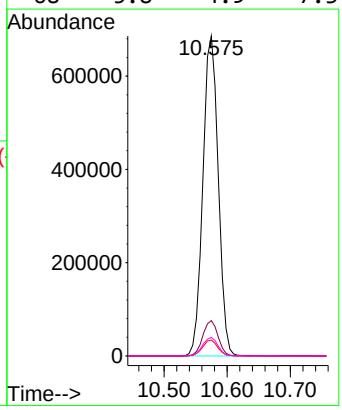


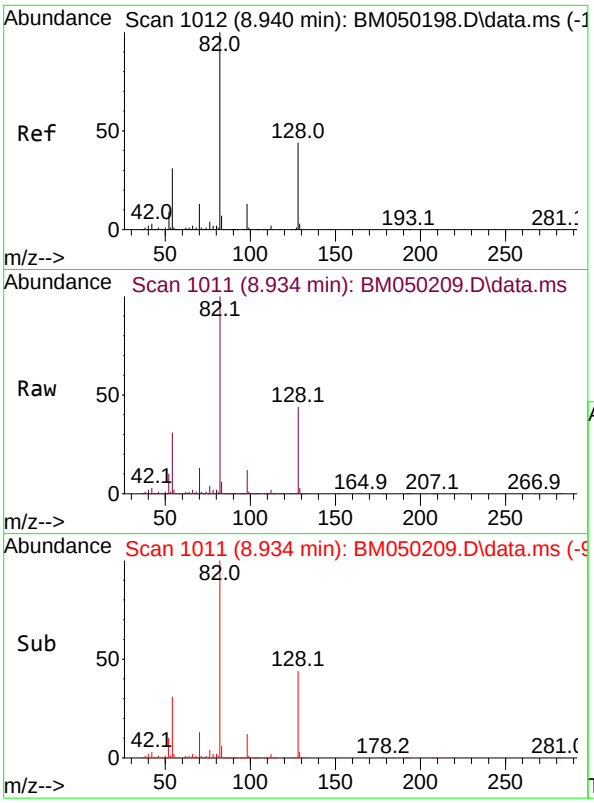


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.575 min Scan# 1290
Delta R.T. -0.006 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

Tgt Ion:136 Resp: 1159115

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	13.0
54	5.0	3.8	5.8
68	5.8	4.9	7.3



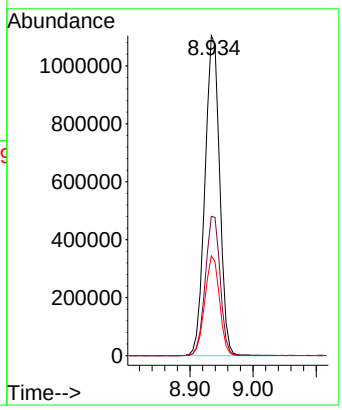


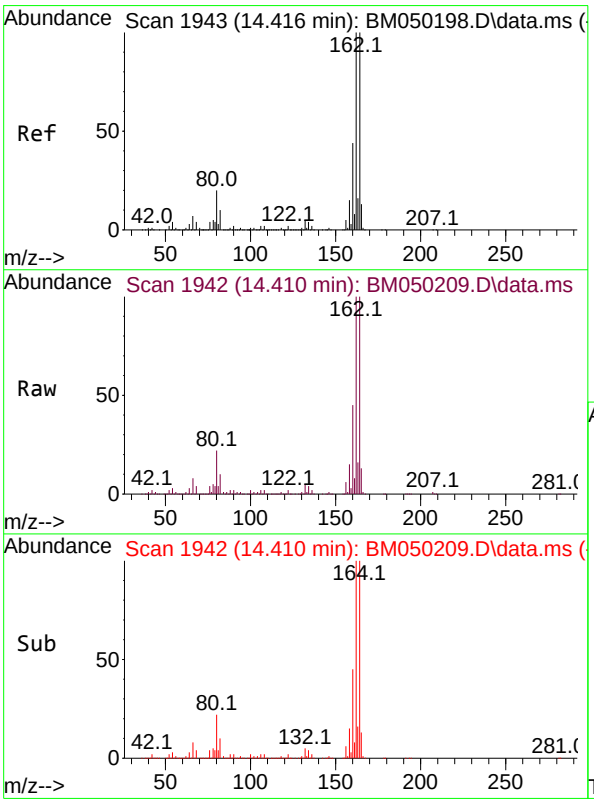
#23
Nitrobenzene-d5
Concen: 80.208 ng
RT: 8.934 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

Instrument :
BNA_M
ClientSampleId :
B-187-SB01

Tgt Ion: 82 Resp: 1787618

Ion	Ratio	Lower	Upper
82	100		
128	43.5	35.2	52.8
54	31.2	24.5	36.7

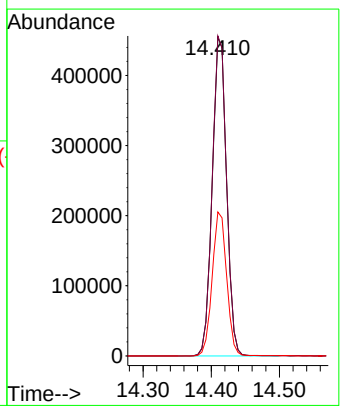


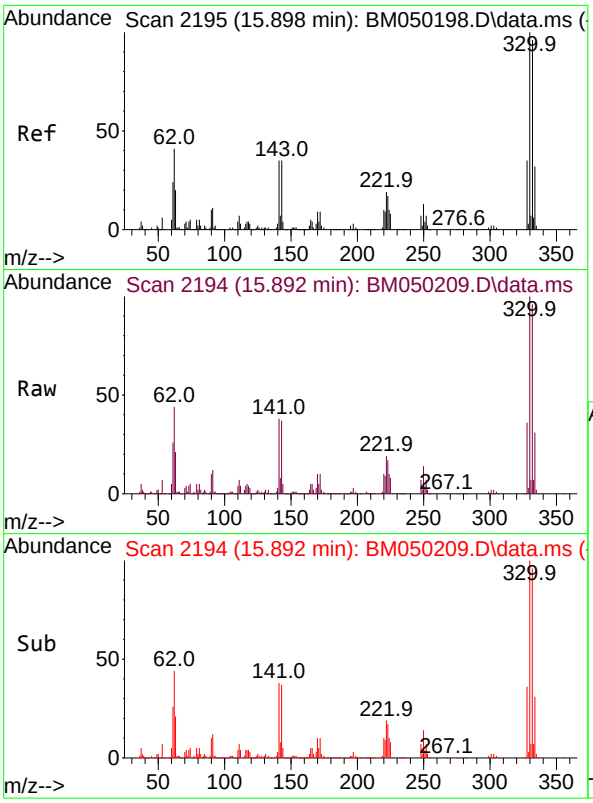


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.006 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

Tgt Ion:164 Resp: 659350

Ion	Ratio	Lower	Upper
164	100		
162	100.4	80.2	120.4
160	45.2	35.7	53.5



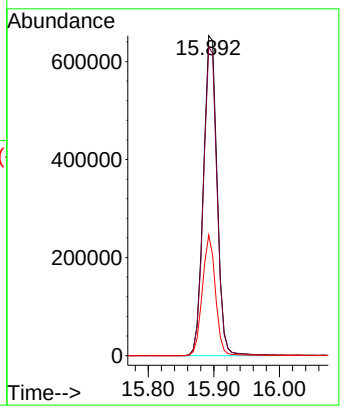


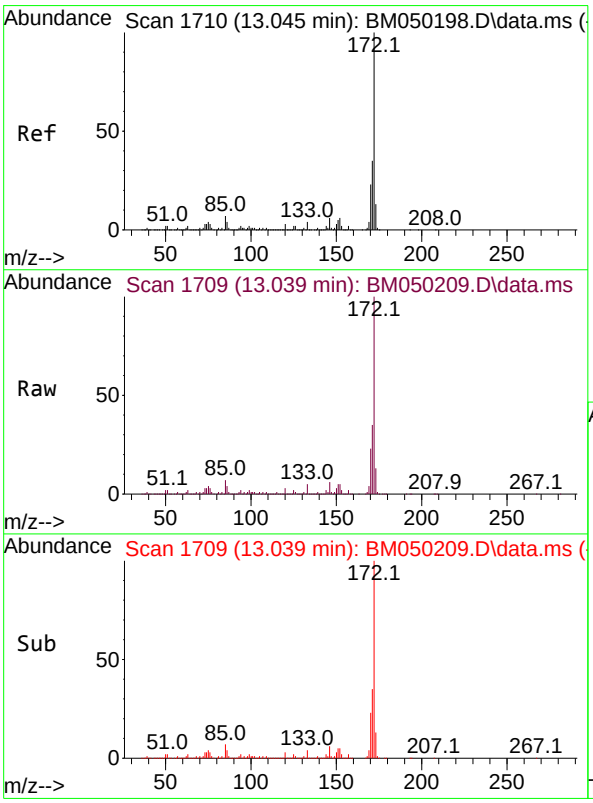
#42
2,4,6-Tribromophenol
Concen: 125.783 ng
RT: 15.892 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

Instrument :
BNA_M
ClientSampleId :
B-187-SB01

Tgt Ion:330 Resp: 943327

Ion	Ratio	Lower	Upper
330	100		
332	96.4	77.5	116.3
141	36.0	28.8	43.2

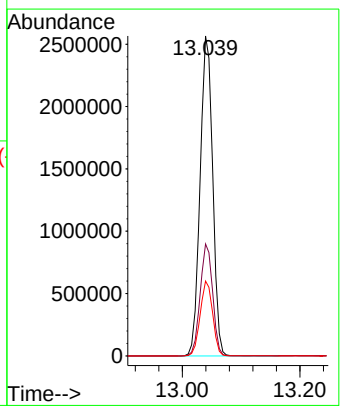


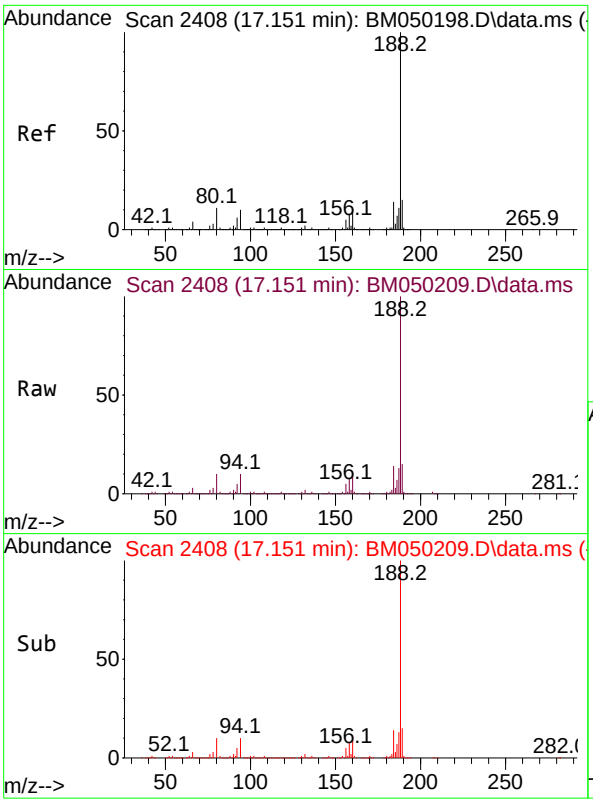


#45
2-Fluorobiphenyl
Concen: 78.161 ng
RT: 13.039 min Scan# 1709
Delta R.T. -0.012 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

Tgt Ion:172 Resp: 3806562

Ion	Ratio	Lower	Upper
172	100		
171	35.0	27.8	41.6
170	23.4	18.6	27.8



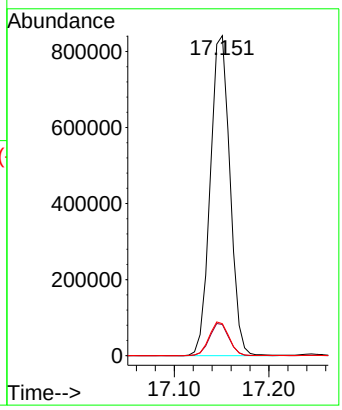


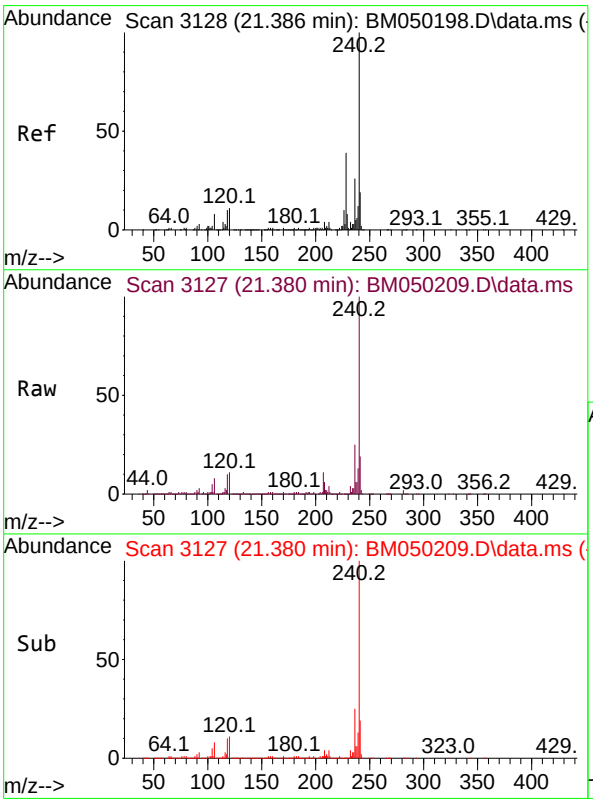
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.151 min Scan# 24
Delta R.T. -0.006 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

Instrument :
BNA_M
ClientSampleId :
B-187-SB01

Tgt Ion:188 Resp: 1216071

Ion	Ratio	Lower	Upper
188	100		
94	9.7	8.1	12.1
80	10.0	8.6	13.0

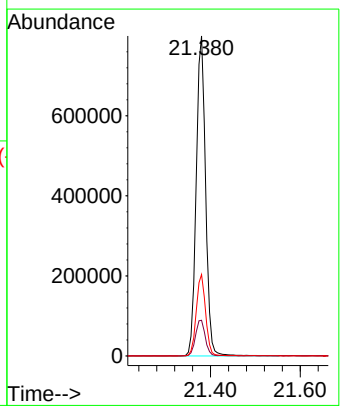


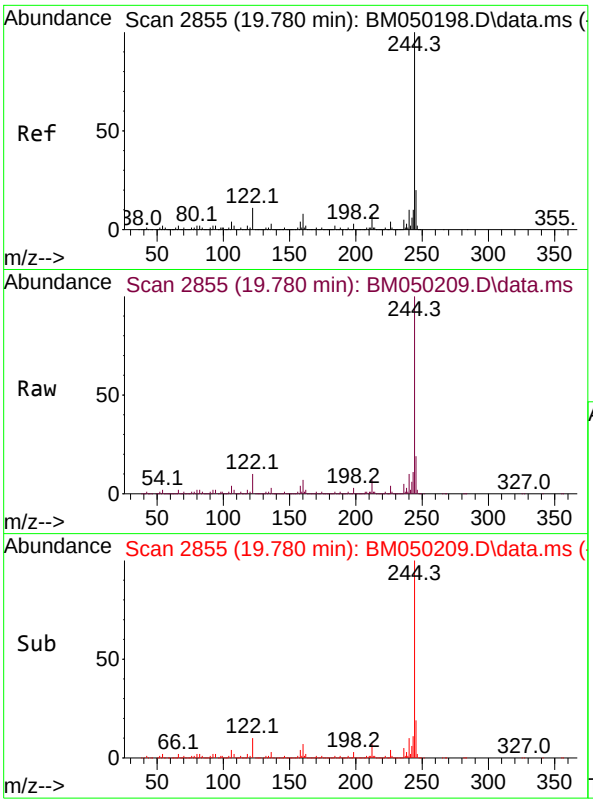


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.380 min Scan# 3127
Delta R.T. -0.006 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

Tgt Ion:240 Resp: 1157737

Ion	Ratio	Lower	Upper
240	100		
120	11.1	9.0	13.4
236	25.4	20.7	31.1



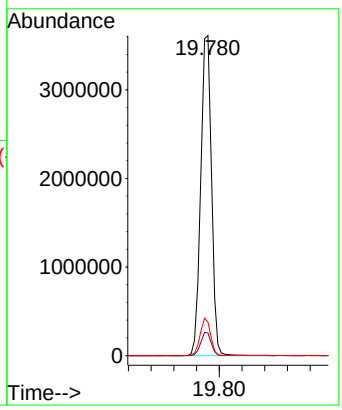


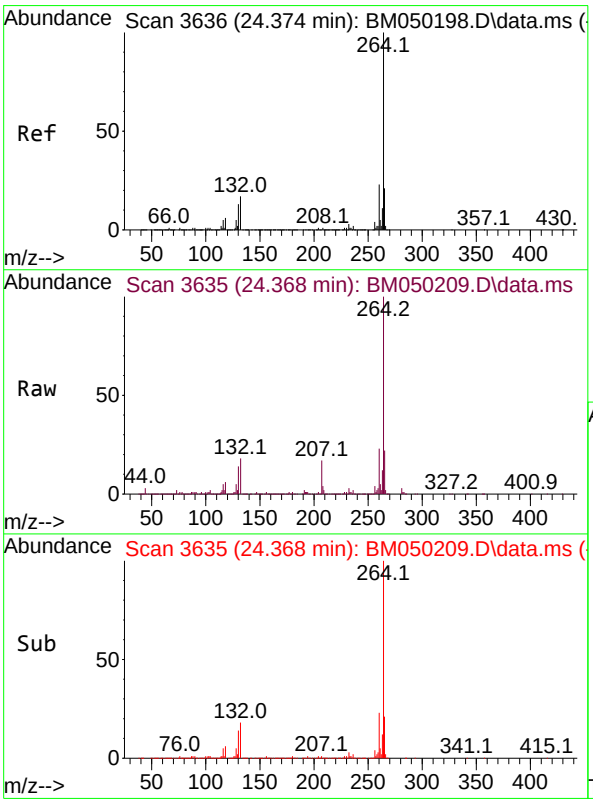
#79
Terphenyl-d14
Concen: 77.545 ng
RT: 19.780 min Scan# 28
Delta R.T. -0.006 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

Instrument :
BNA_M
ClientSampleId :
B-187-SB01

Tgt Ion:244 Resp: 4737529

Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	10.5	8.6	12.8

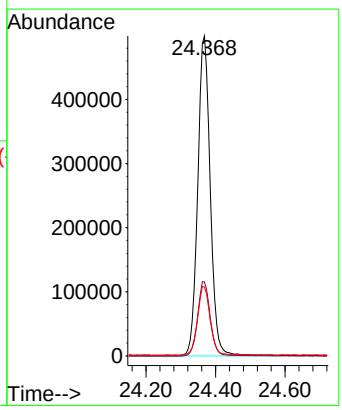




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.368 min Scan# 3635
Delta R.T. -0.006 min
Lab File: BM050209.D
Acq: 06 Jun 2025 11:27

Tgt Ion:264 Resp: 1244732

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.6	28.0
265	21.5	16.8	25.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050232.D
Acq On : 07 Jun 2025 03:20
Operator : RC/JU
Sample : Q2177-05
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-187-SB02

Quant Time: Jun 07 04:09:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

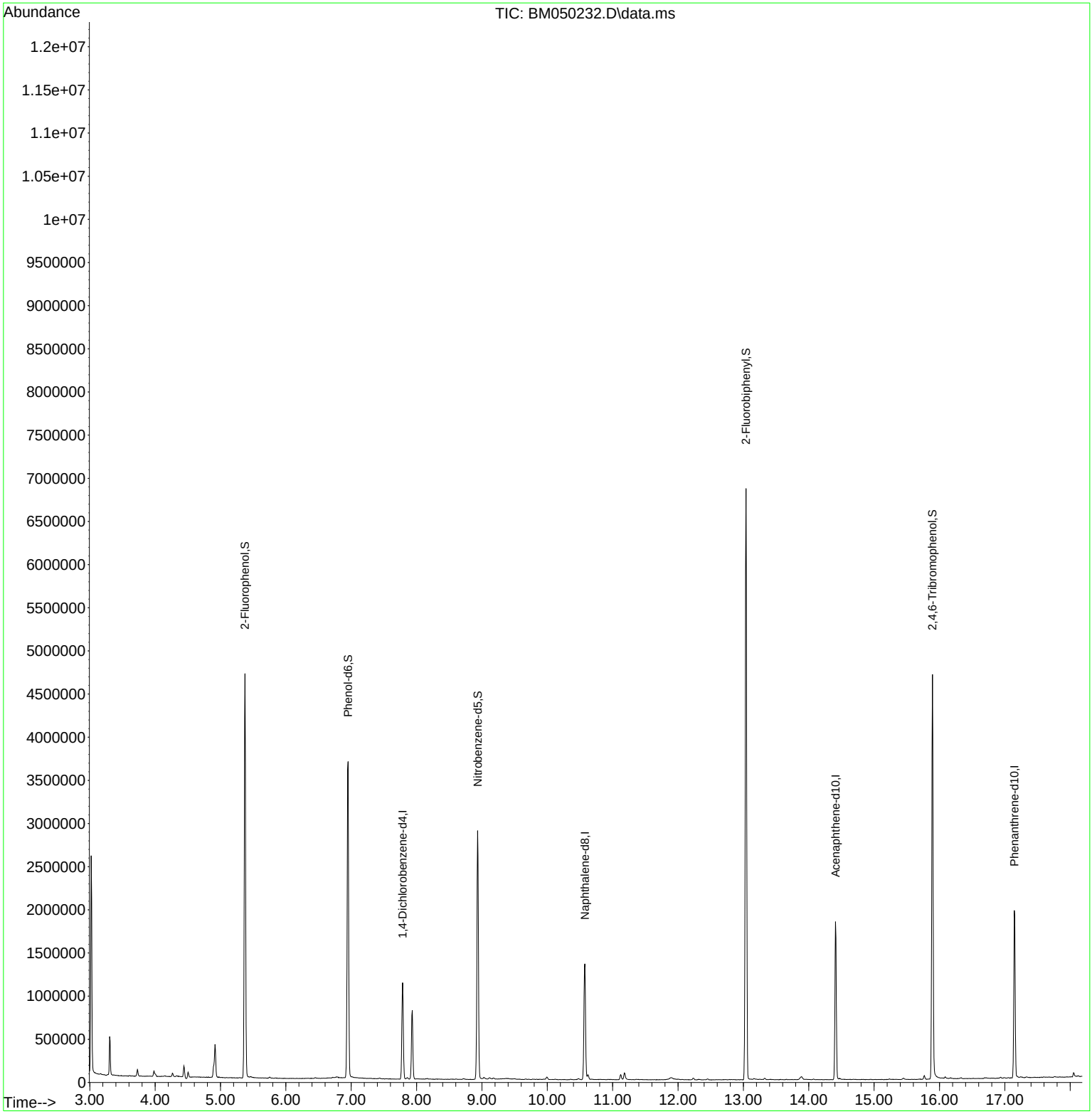
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.786	152	305472	20.000	ng	0.00
21) Naphthalene-d8	10.575	136	1153728	20.000	ng	0.00
39) Acenaphthene-d10	14.410	164	611005	20.000	ng	0.00
64) Phenanthrene-d10	17.145	188	1089581	20.000	ng	-0.01
76) Chrysene-d12	21.374	240	1091419	20.000	ng	-0.01
86) Perylene-d12	24.362	264	1171439	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	2187255	119.443	ng	0.00
7) Phenol-d6	6.951	99	2358204	97.826	ng	0.00
23) Nitrobenzene-d5	8.933	82	1789228	80.655	ng	-0.01
42) 2,4,6-Tribromophenol	15.892	330	838659	120.675	ng	-0.01
45) 2-Fluorobiphenyl	13.039	172	3530581	78.230	ng	-0.01
79) Terphenyl-d14	19.774	244	4581312	79.545	ng	-0.01
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050232.D
Acq On : 07 Jun 2025 03:20
Operator : RC/JU
Sample : Q2177-05
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-187-SB02

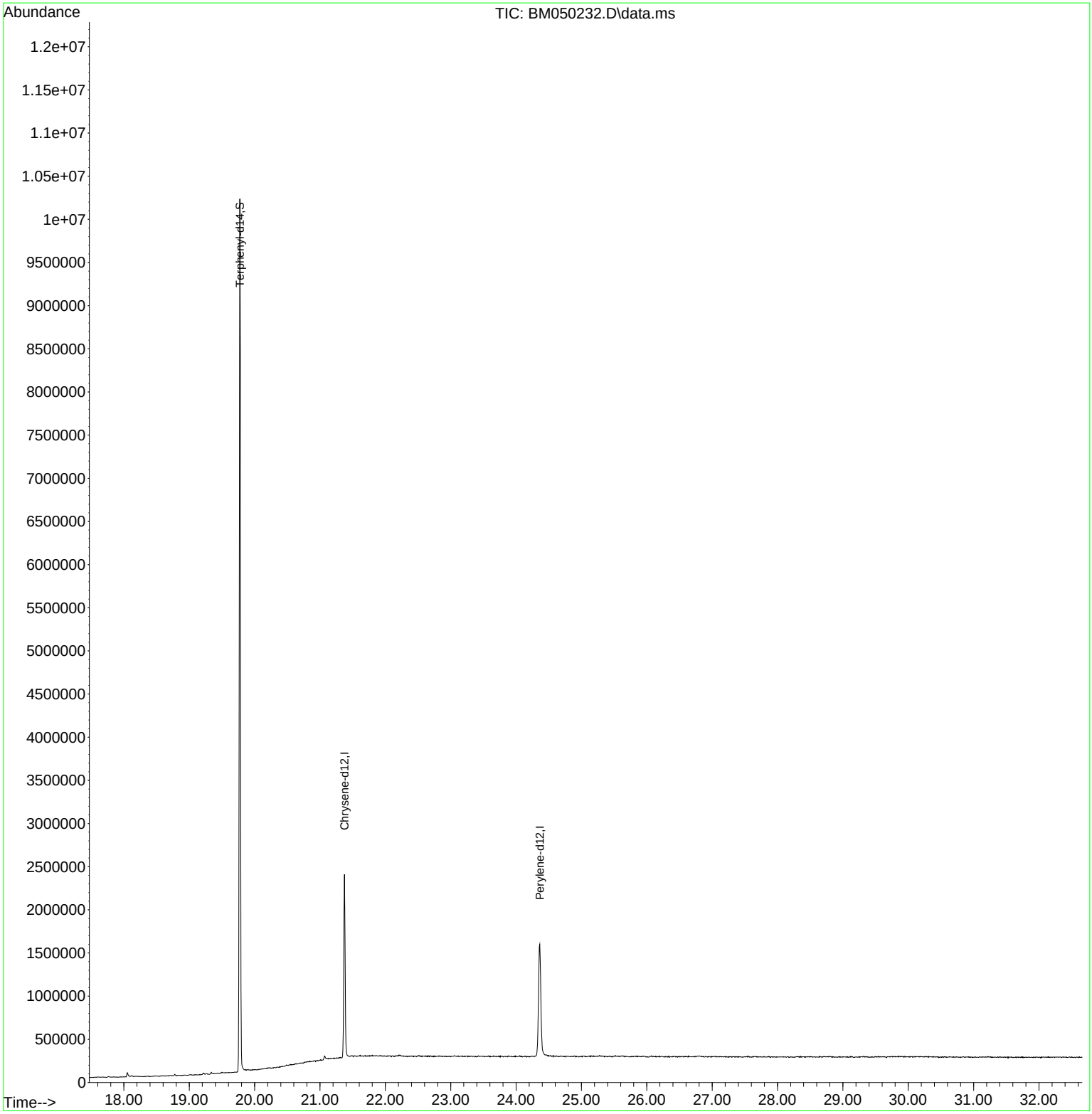
Quant Time: Jun 07 04:09:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

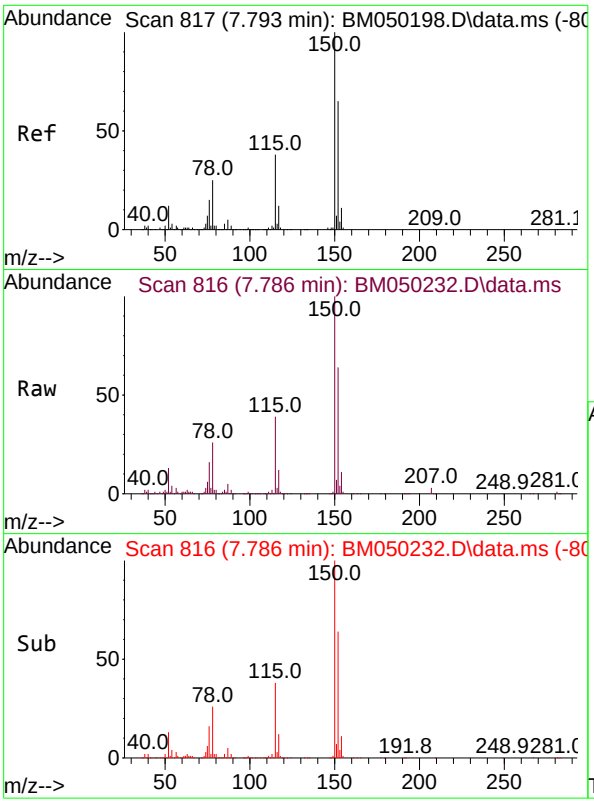


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050232.D
Acq On : 07 Jun 2025 03:20
Operator : RC/JU
Sample : Q2177-05
Misc :
ALS Vial : 30 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-187-SB02

Quant Time: Jun 07 04:09:46 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration



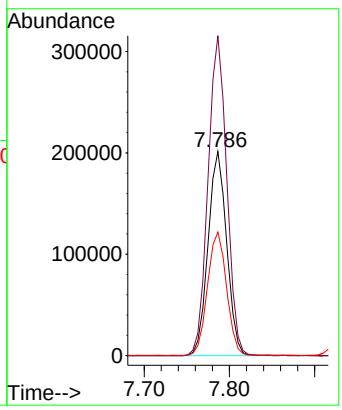


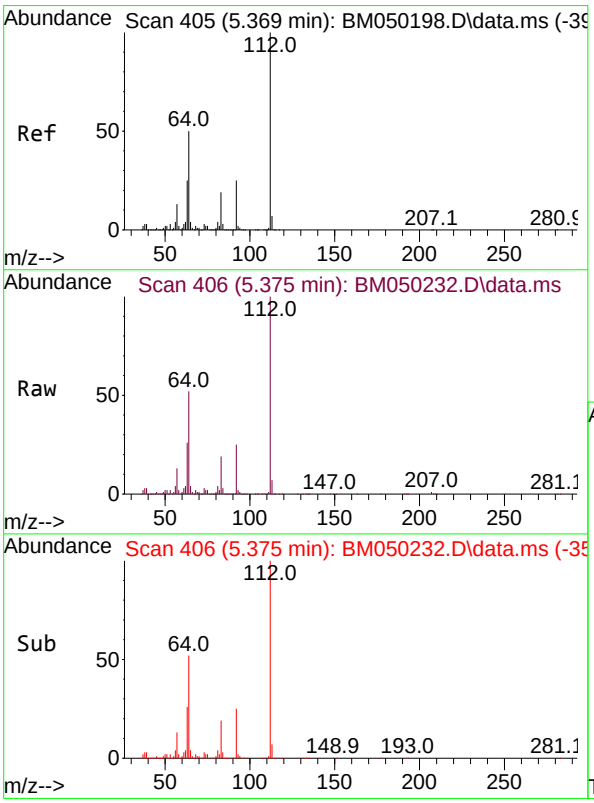
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.786 min Scan# 81
Delta R.T. -0.007 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

Instrument :
BNA_M
ClientSampleId :
B-187-SB02

Tgt Ion:152 Resp: 305472

Ion	Ratio	Lower	Upper
152	100		
150	156.8	122.2	183.4
115	60.5	46.3	69.5

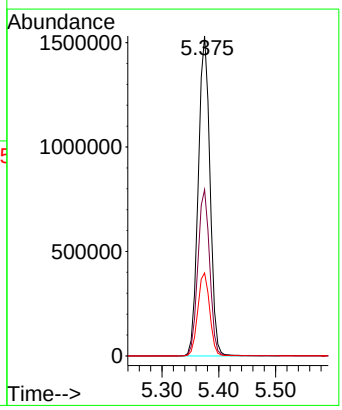




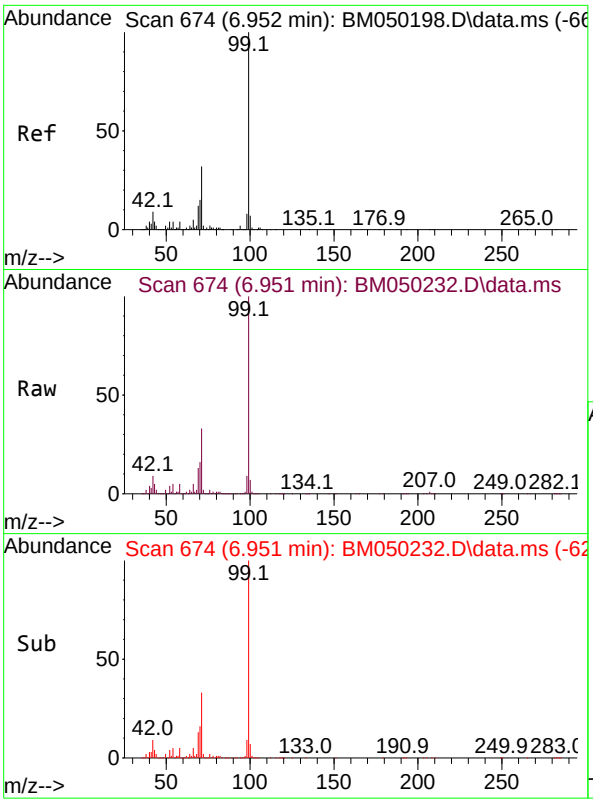
#5
2-Fluorophenol
Concen: 119.443 ng
RT: 5.375 min Scan# 406
Delta R.T. -0.000 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

Tgt Ion:112 Resp: 2187255

Ion	Ratio	Lower	Upper
112	100		
64	51.9	39.8	59.6
63	25.9	19.8	29.8



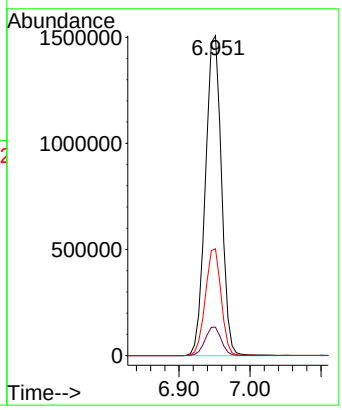
Instrument :
BNA_M
ClientSampleId :
B-187-SB02

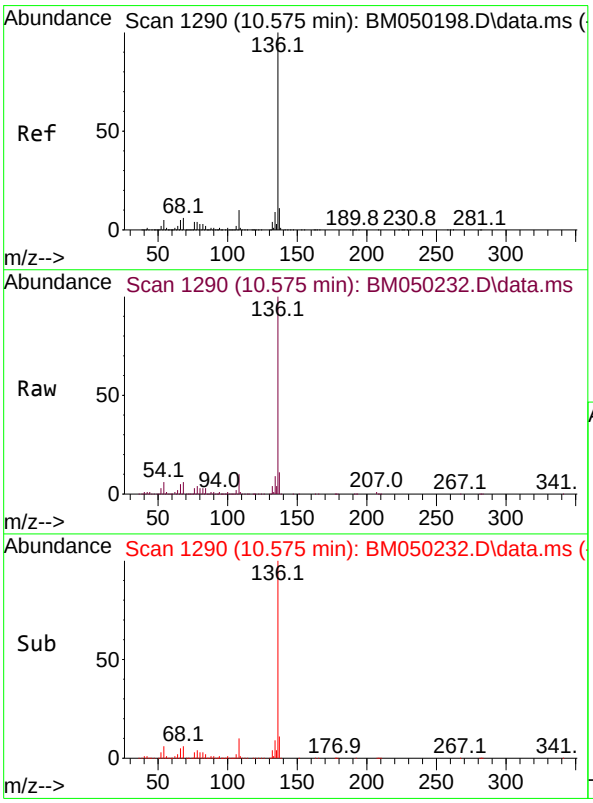


#7
Phenol-d6
Concen: 97.826 ng
RT: 6.951 min Scan# 6
Delta R.T. -0.006 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

Tgt Ion: 99 Resp: 2358204

Ion	Ratio	Lower	Upper
99	100		
42	8.9	6.9	10.3
71	33.4	25.3	37.9

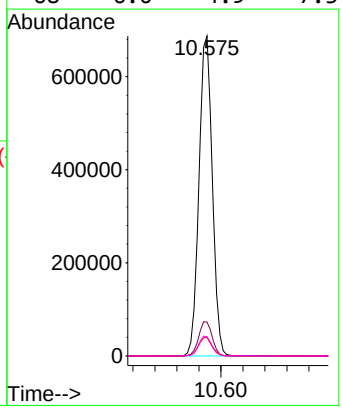


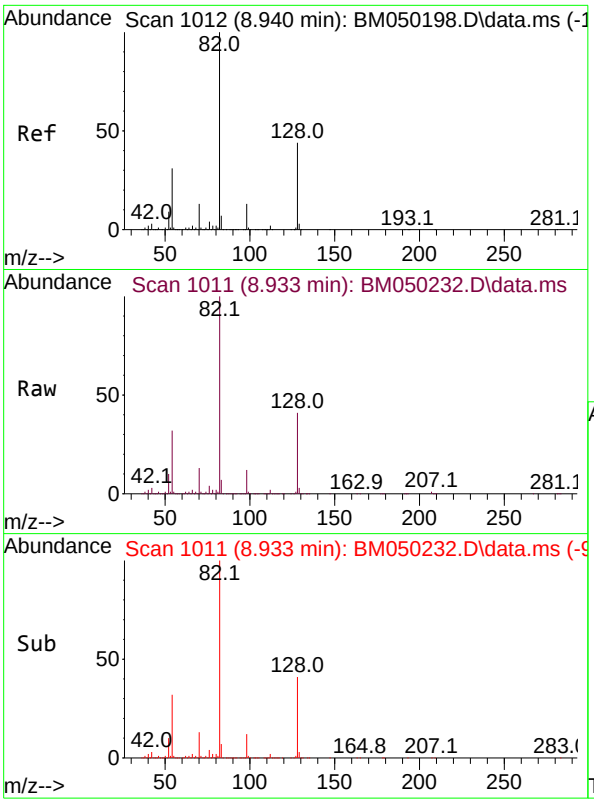


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.575 min Scan# 1290
Delta R.T. -0.006 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

Tgt Ion:136 Resp: 1153728

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.6	13.0
54	5.7	3.8	5.8
68	6.0	4.9	7.3



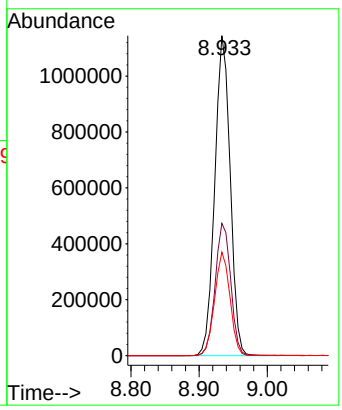


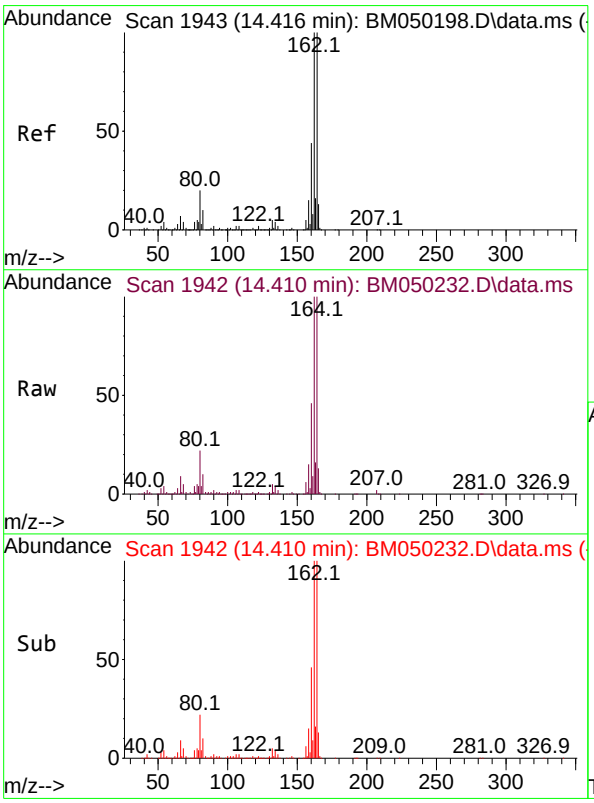
#23
Nitrobenzene-d5
Concen: 80.655 ng
RT: 8.933 min Scan# 1(
Delta R.T. -0.012 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

Instrument :
BNA_M
ClientSampleId :
B-187-SB02

Tgt Ion: 82 Resp: 1789228

Ion	Ratio	Lower	Upper
82	100		
128	41.3	35.2	52.8
54	32.3	24.5	36.7

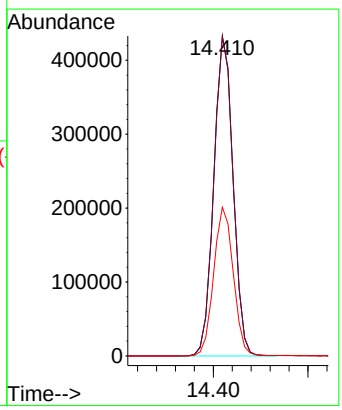


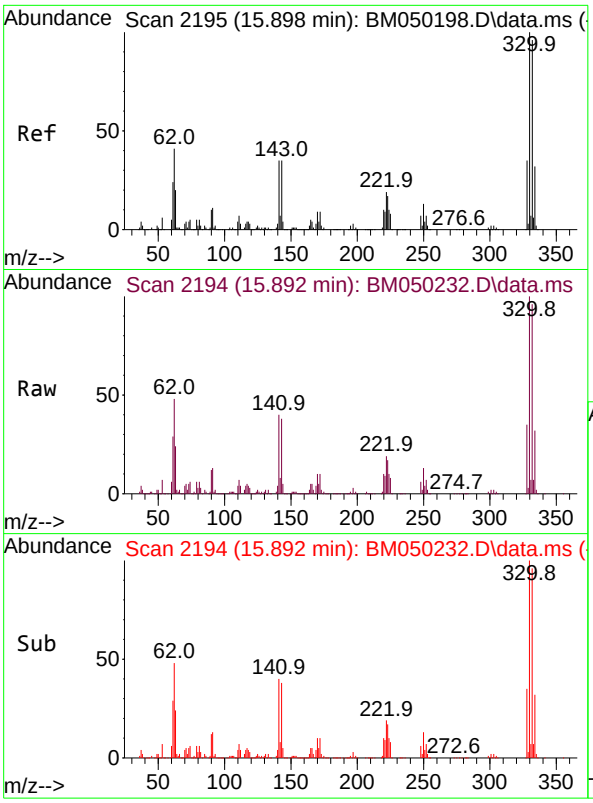


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.006 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

Tgt Ion:164 Resp: 611005

Ion	Ratio	Lower	Upper
164	100		
162	100.2	80.2	120.4
160	46.5	35.7	53.5



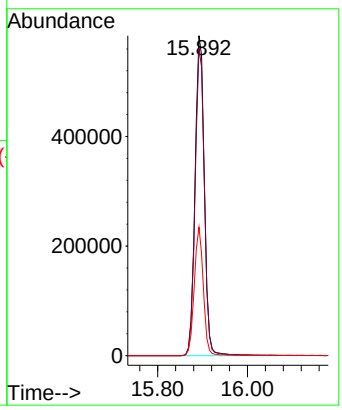


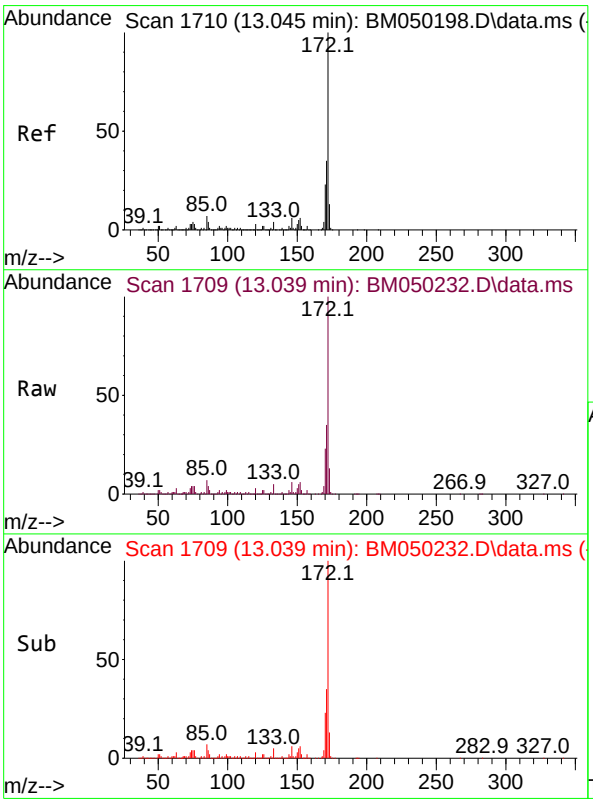
#42
2,4,6-Tribromophenol
Concen: 120.675 ng
RT: 15.892 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

Instrument :
BNA_M
ClientSampleId :
B-187-SB02

Tgt Ion:330 Resp: 838659

Ion	Ratio	Lower	Upper
330	100		
332	96.2	77.5	116.3
141	38.9	28.8	43.2

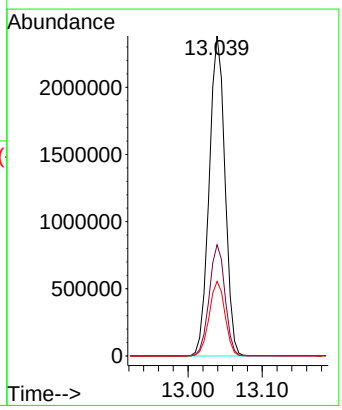


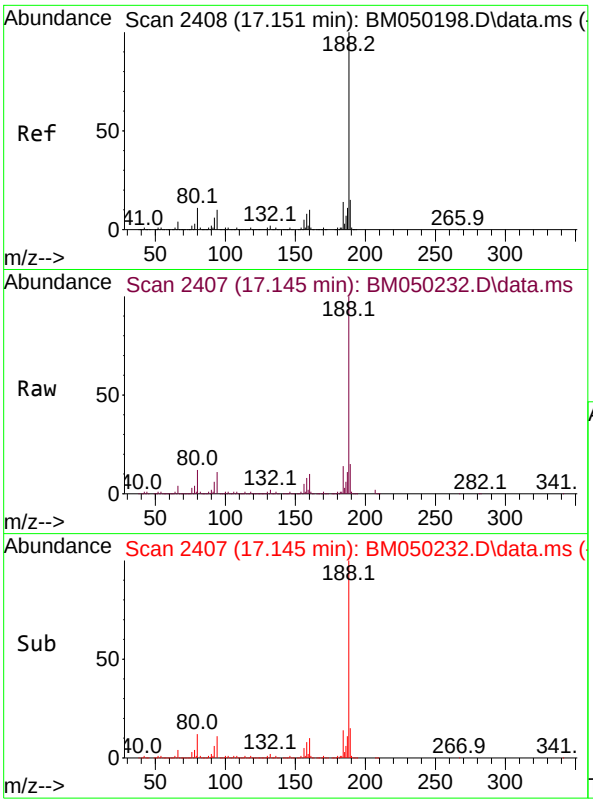


#45
2-Fluorobiphenyl
Concen: 78.230 ng
RT: 13.039 min Scan# 1709
Delta R.T. -0.012 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

Tgt Ion:172 Resp: 3530581

Ion	Ratio	Lower	Upper
172	100		
171	34.7	27.8	41.6
170	23.3	18.6	27.8



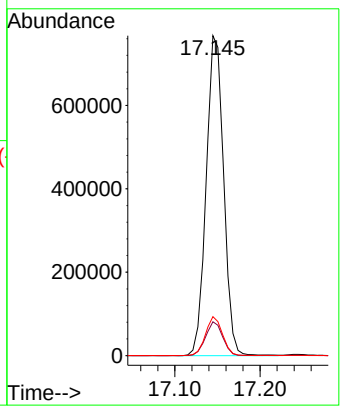


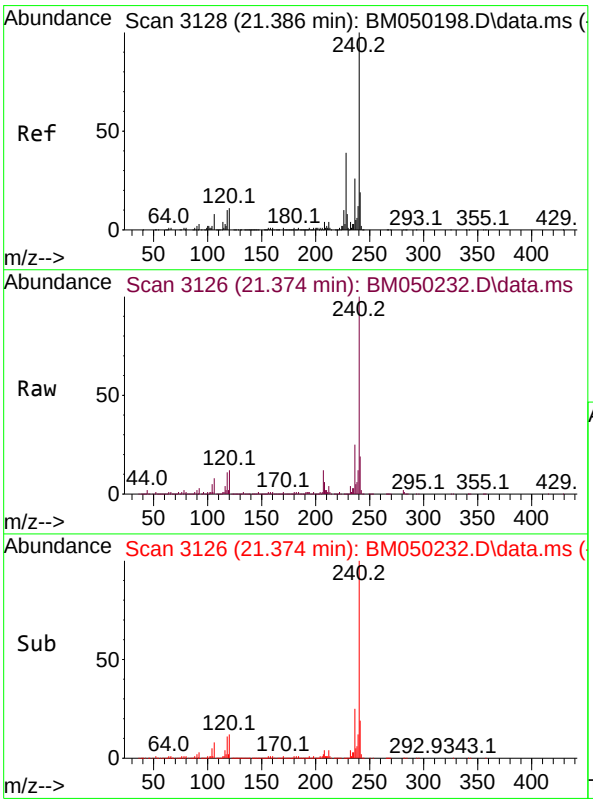
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.145 min Scan# 24
Delta R.T. -0.012 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

Instrument :
BNA_M
ClientSampleId :
B-187-SB02

Tgt Ion:188 Resp: 1089581

Ion	Ratio	Lower	Upper
188	100		
94	10.6	8.1	12.1
80	12.2	8.6	13.0

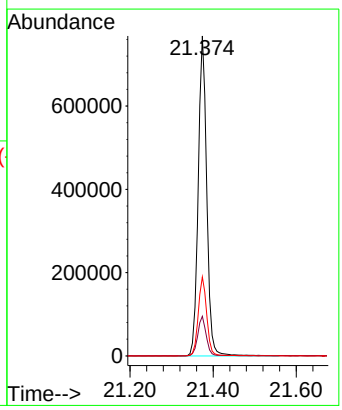


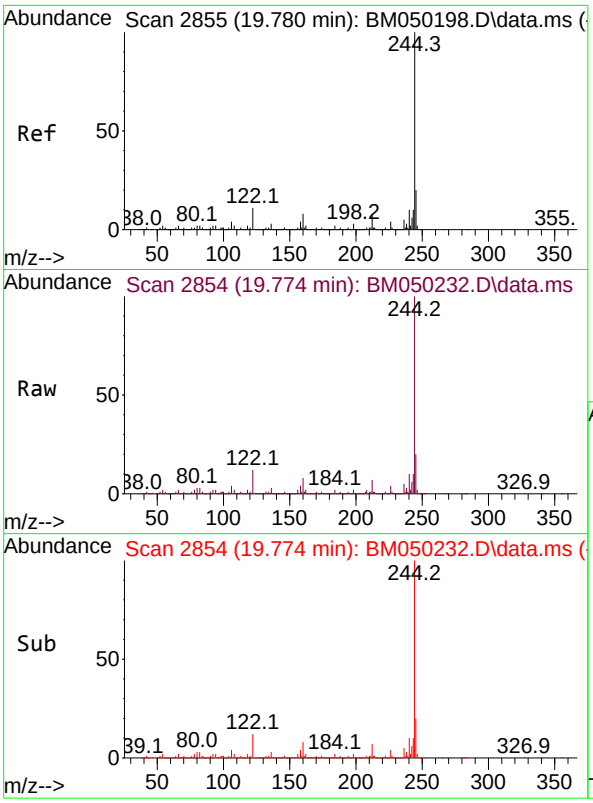


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.374 min Scan# 3126
Delta R.T. -0.012 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

Tgt Ion:240 Resp: 1091419

Ion	Ratio	Lower	Upper
240	100		
120	12.4	9.0	13.4
236	24.7	20.7	31.1



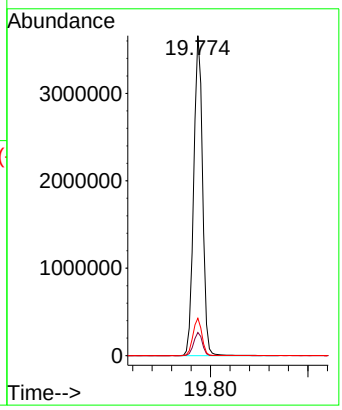


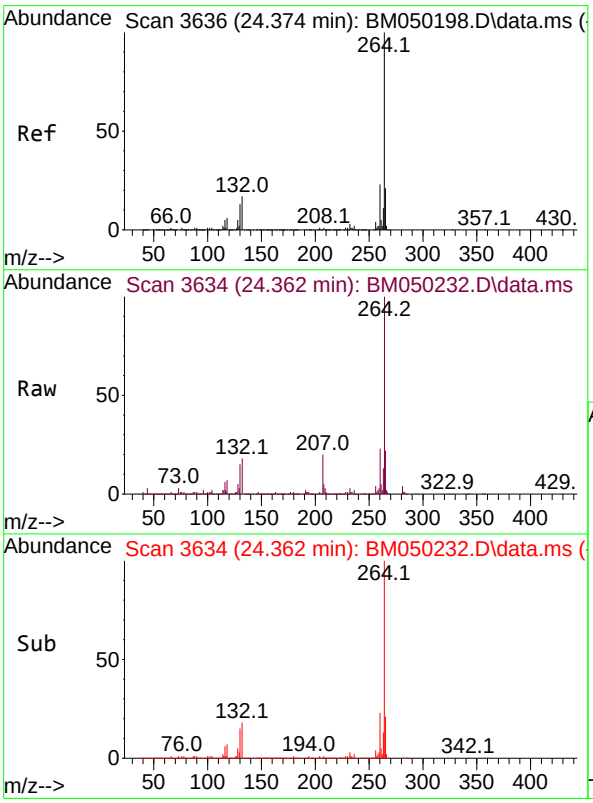
#79
Terphenyl-d14
Concen: 79.545 ng
RT: 19.774 min Scan# 2
Delta R.T. -0.012 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

Instrument :
BNA_M
ClientSampleId :
B-187-SB02

Tgt Ion:244 Resp: 4581312

Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	11.7	8.6	12.8

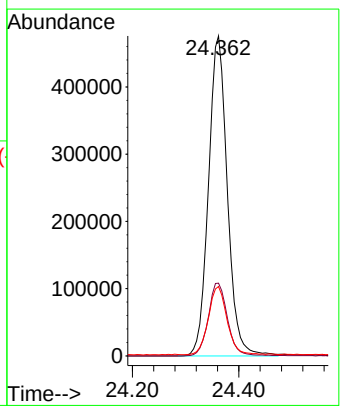




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.362 min Scan# 3634
Delta R.T. -0.012 min
Lab File: BM050232.D
Acq: 07 Jun 2025 03:20

Tgt Ion:264 Resp: 1171439

Ion	Ratio	Lower	Upper
264	100		
260	22.7	18.6	28.0
265	21.7	16.8	25.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050233.D
Acq On : 07 Jun 2025 04:00
Operator : RC/JU
Sample : Q2177-07
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-202-SB01

Quant Time: Jun 07 05:36:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

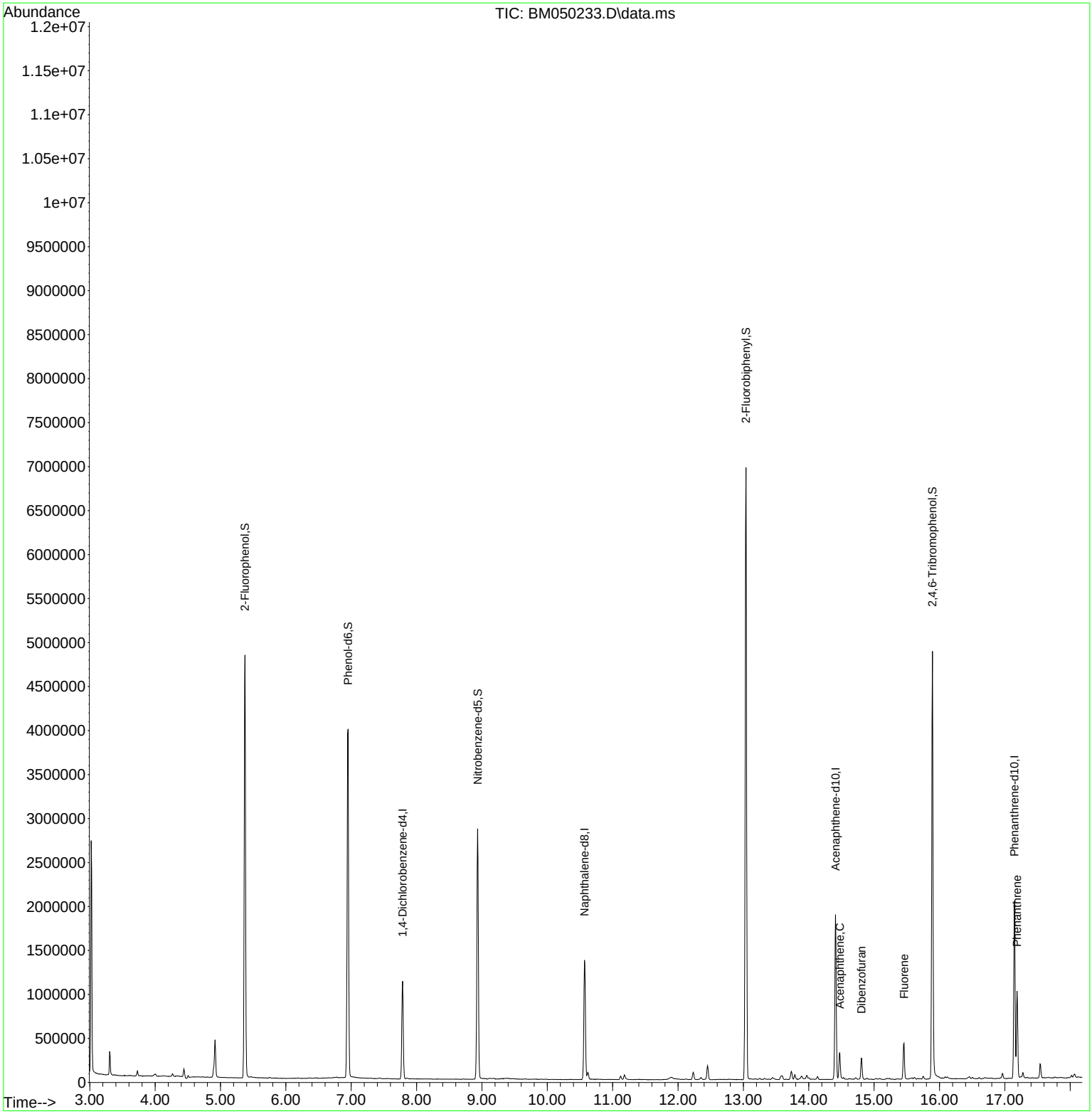
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.787	152	306776	20.000	ng	0.00
21) Naphthalene-d8	10.569	136	1155499	20.000	ng	#-0.01
39) Acenaphthene-d10	14.410	164	625136	20.000	ng	0.00
64) Phenanthrene-d10	17.145	188	1109436	20.000	ng	-0.01
76) Chrysene-d12	21.374	240	1043232	20.000	ng	-0.01
86) Perylene-d12	24.356	264	1124100	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	2277932	123.866	ng	0.00
7) Phenol-d6	6.952	99	2586807	106.853	ng	0.00
23) Nitrobenzene-d5	8.934	82	1787839	80.469	ng	-0.01
42) 2,4,6-Tribromophenol	15.892	330	829869	116.711	ng	-0.01
45) 2-Fluorobiphenyl	13.039	172	3525780	76.357	ng	-0.01
79) Terphenyl-d14	19.774	244	4569124	82.998	ng	-0.01
Target Compounds						Qvalue
52) Acenaphthene	14.475	154	102876	2.794	ng	96
55) Dibenzofuran	14.804	168	147513	2.739	ng	97
58) Fluorene	15.457	166	171436	4.156	ng	97
71) Phenanthrene	17.186	178	558859	8.818	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050233.D
Acq On : 07 Jun 2025 04:00
Operator : RC/JU
Sample : Q2177-07
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-202-SB01

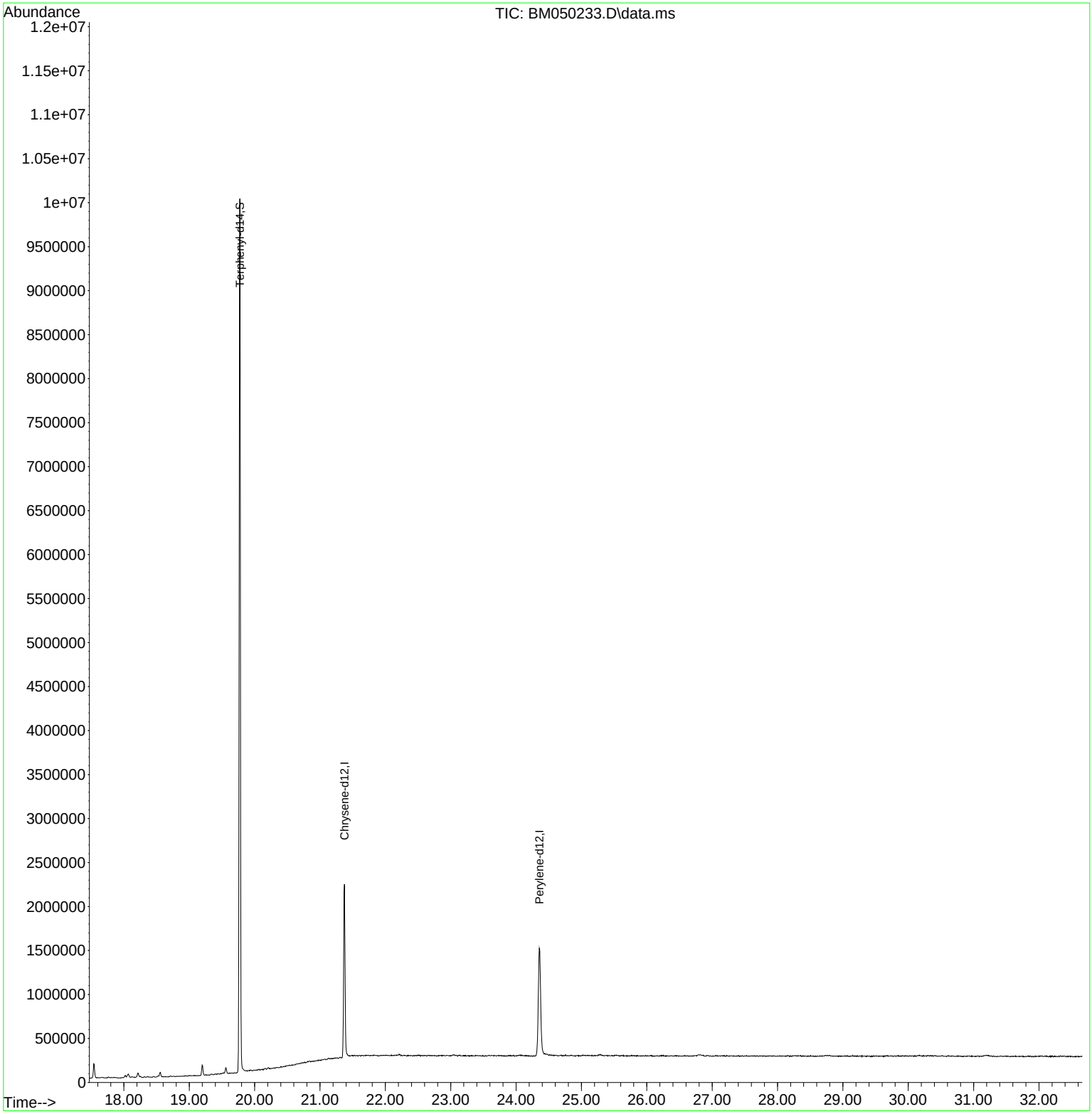
Quant Time: Jun 07 05:36:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

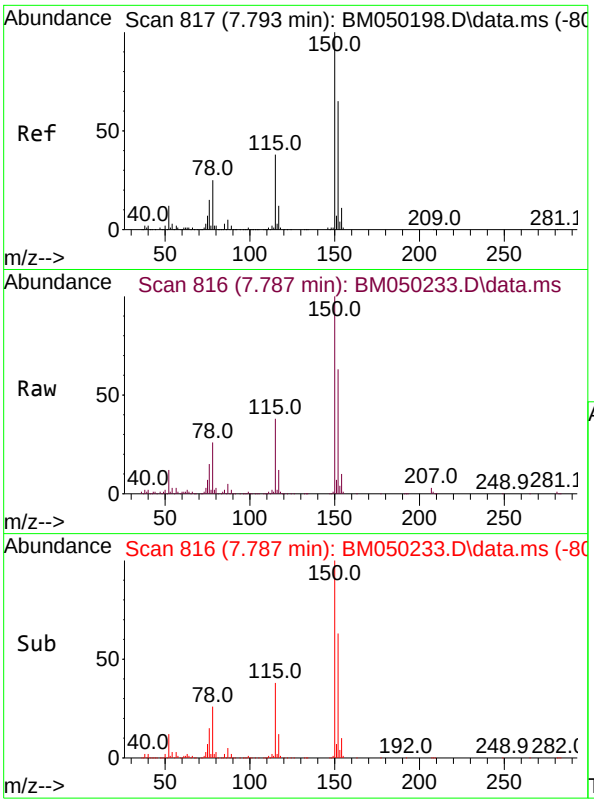


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050233.D
Acq On : 07 Jun 2025 04:00
Operator : RC/JU
Sample : Q2177-07
Misc :
ALS Vial : 31 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-202-SB01

Quant Time: Jun 07 05:36:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration



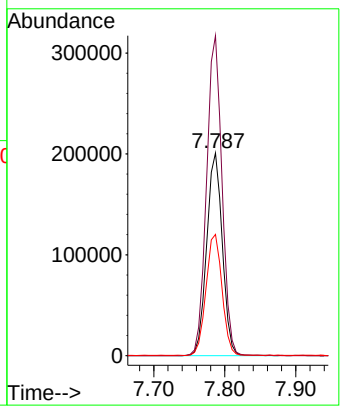


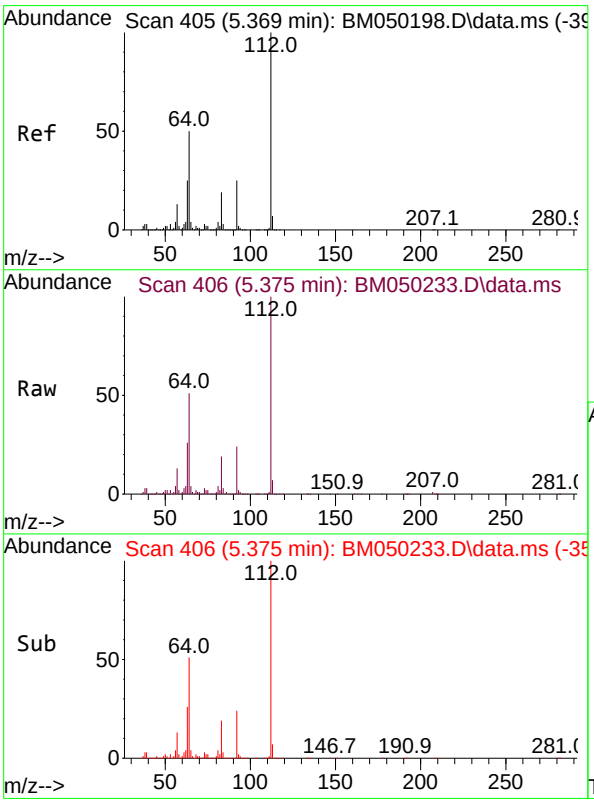
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.787 min Scan# 81
Delta R.T. -0.006 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Instrument :
BNA_M
ClientSampleId :
B-202-SB01

Tgt Ion:152 Resp: 306776

Ion	Ratio	Lower	Upper
152	100		
150	158.0	122.2	183.4
115	59.9	46.3	69.5

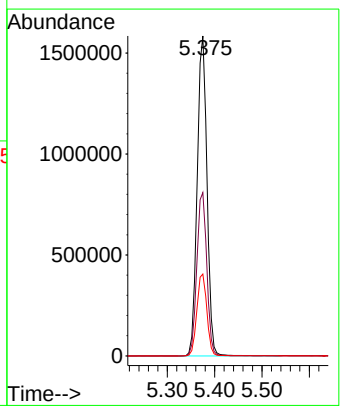


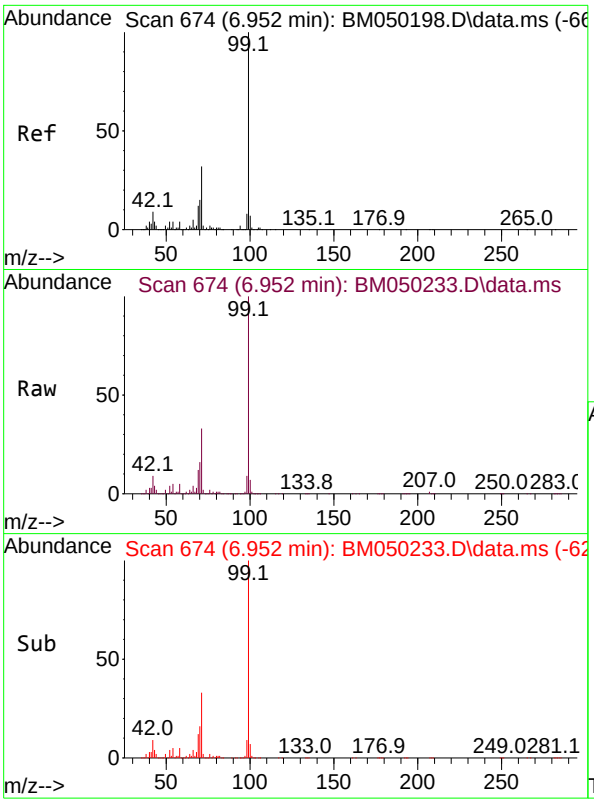


#5
2-Fluorophenol
Concen: 123.866 ng
RT: 5.375 min Scan# 406
Delta R.T. 0.000 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Tgt Ion:112 Resp: 2277932

Ion	Ratio	Lower	Upper
112	100		
64	51.0	39.8	59.6
63	25.6	19.8	29.8



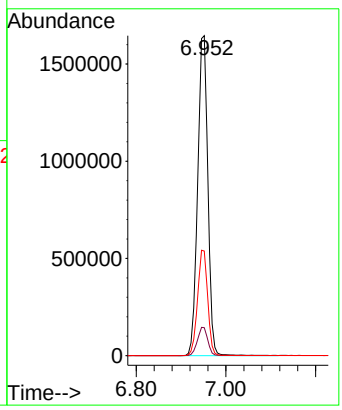


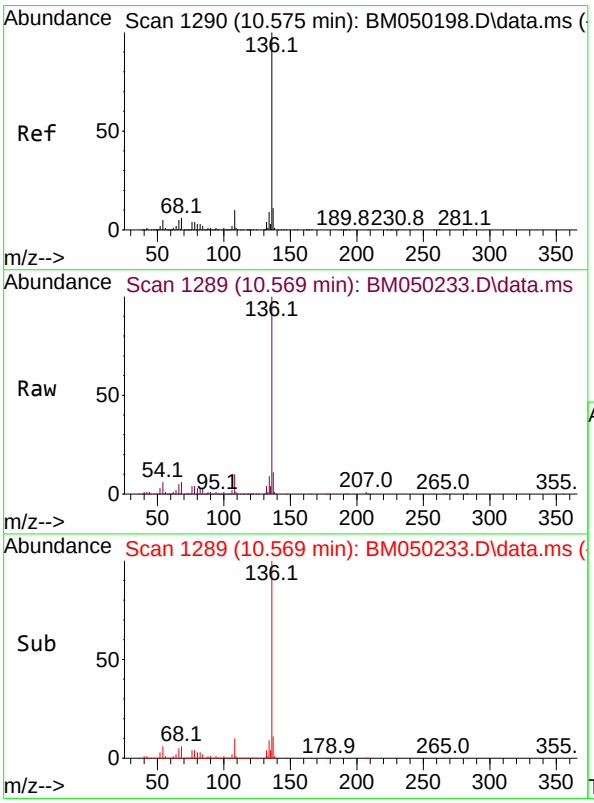
#7
Phenol-d6
Concen: 106.853 ng
RT: 6.952 min Scan# 6
Delta R.T. -0.006 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Instrument :
BNA_M
ClientSampleId :
B-202-SB01

Tgt Ion: 99 Resp: 2586807

Ion	Ratio	Lower	Upper
99	100		
42	8.7	6.9	10.3
71	32.7	25.3	37.9

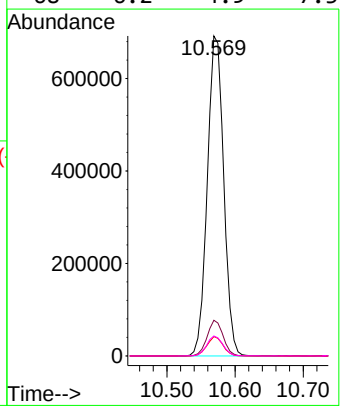


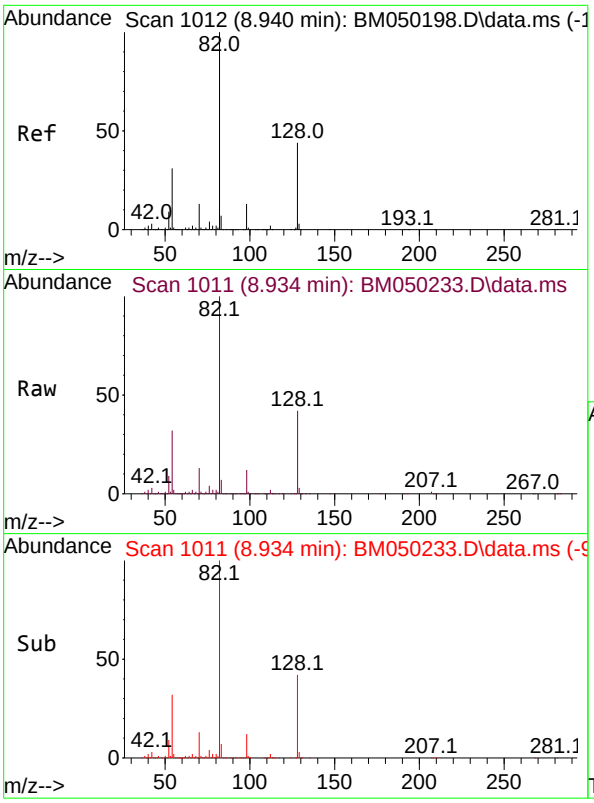


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.569 min Scan# 1289
Delta R.T. -0.012 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Tgt Ion:136 Resp: 1155499

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	6.0	3.8	5.8#
68	6.2	4.9	7.3



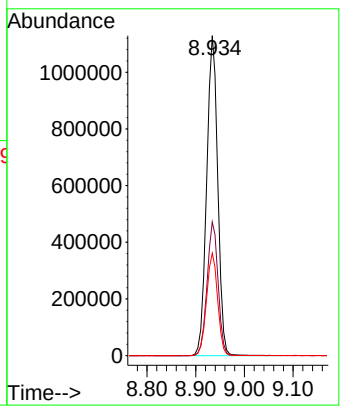


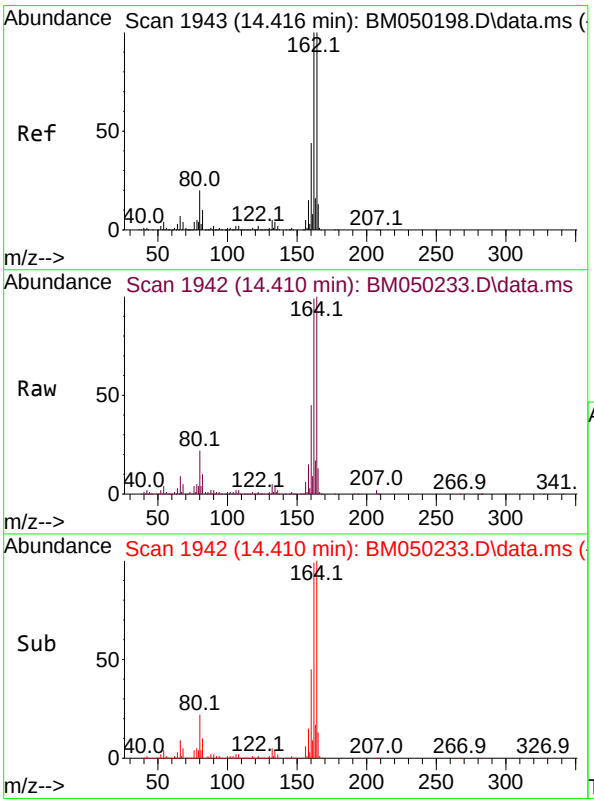
#23
Nitrobenzene-d5
Concen: 80.469 ng
RT: 8.934 min Scan# 1
Delta R.T. -0.012 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Instrument :
BNA_M
ClientSampleId :
B-202-SB01

Tgt Ion: 82 Resp: 1787839

Ion	Ratio	Lower	Upper
82	100		
128	41.8	35.2	52.8
54	32.0	24.5	36.7

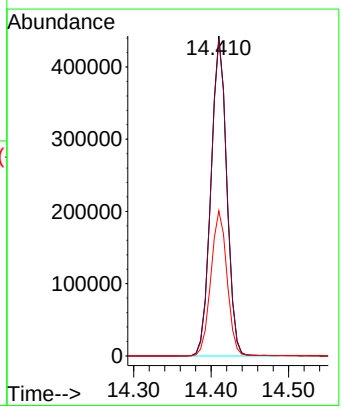


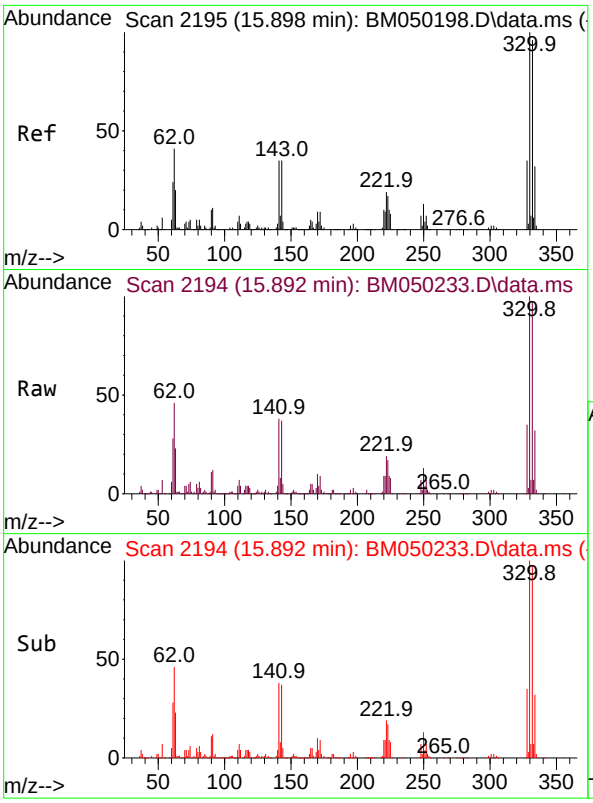


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.006 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Tgt Ion:164 Resp: 625136

Ion	Ratio	Lower	Upper
164	100		
162	98.9	80.2	120.4
160	45.3	35.7	53.5



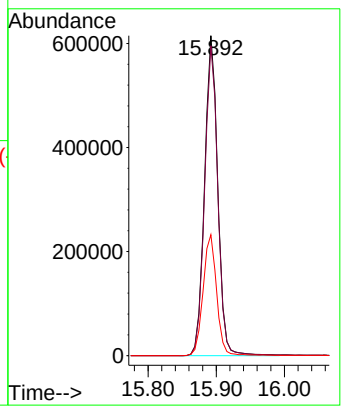


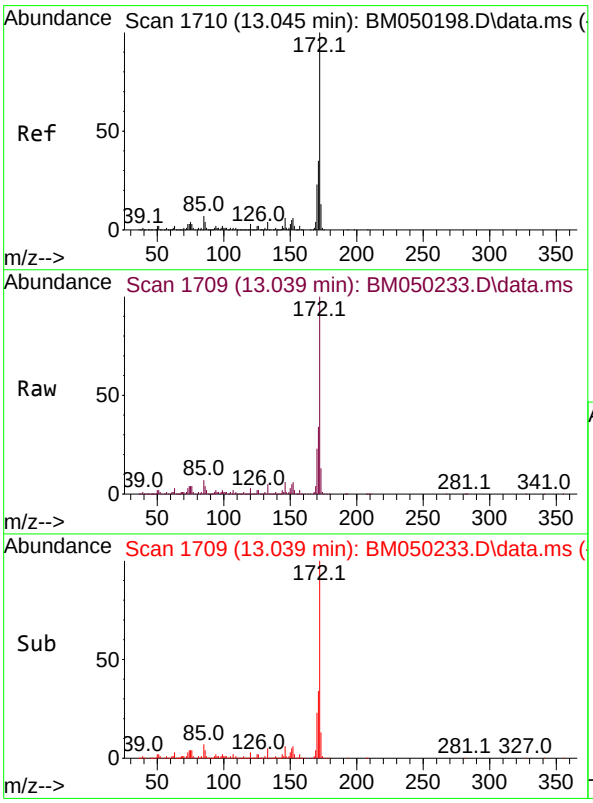
#42
2,4,6-Tribromophenol
Concen: 116.711 ng
RT: 15.892 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Instrument :
BNA_M
ClientSampleId :
B-202-SB01

Tgt Ion:330 Resp: 829869

Ion	Ratio	Lower	Upper
330	100		
332	96.9	77.5	116.3
141	38.8	28.8	43.2

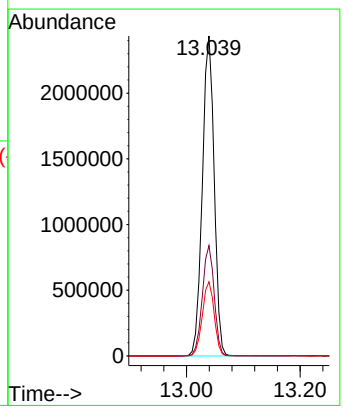


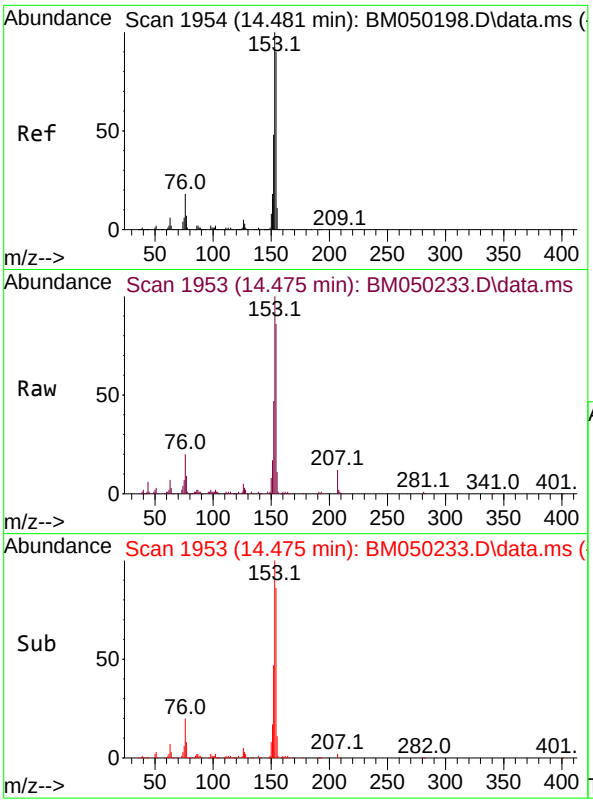


#45
2-Fluorobiphenyl
Concen: 76.357 ng
RT: 13.039 min Scan# 1709
Delta R.T. -0.012 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Tgt Ion:172 Resp: 3525780

Ion	Ratio	Lower	Upper
172	100		
171	34.5	27.8	41.6
170	23.2	18.6	27.8



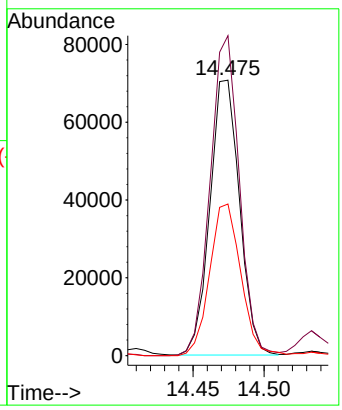


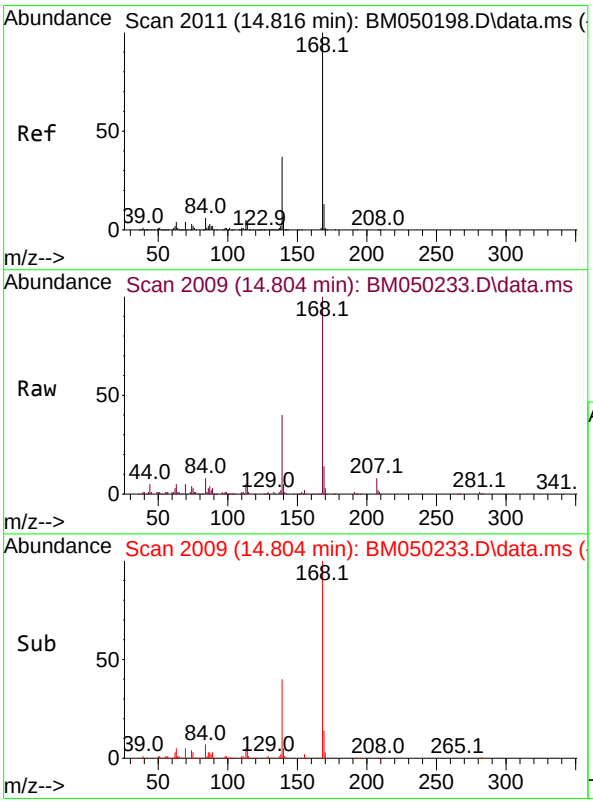
#52
Acenaphthene
Concen: 2.794 ng
RT: 14.475 min Scan# 19
Delta R.T. -0.012 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Instrument :
BNA_M
ClientSampleId :
B-202-SB01

Tgt Ion:154 Resp: 102876

Ion	Ratio	Lower	Upper
154	100		
153	116.1	88.7	133.1
152	55.0	42.6	63.8

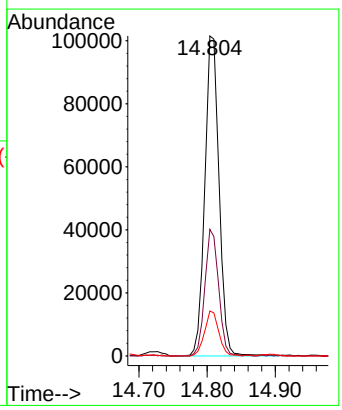


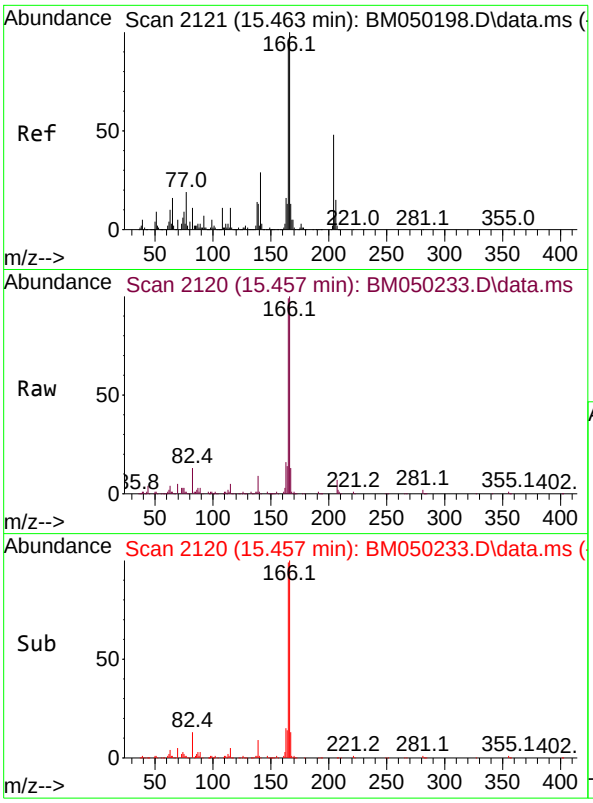


#55
Dibenzofuran
Concen: 2.739 ng
RT: 14.804 min Scan# 2009
Delta R.T. -0.012 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Tgt Ion:168 Resp: 147513

Ion	Ratio	Lower	Upper
168	100		
139	39.5	29.9	44.9
169	14.0	10.6	16.0



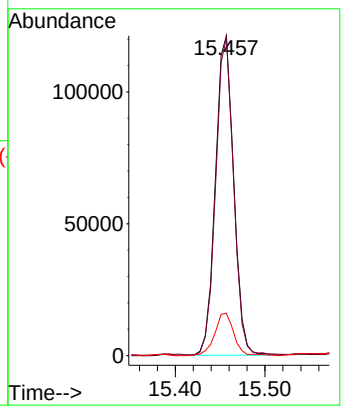


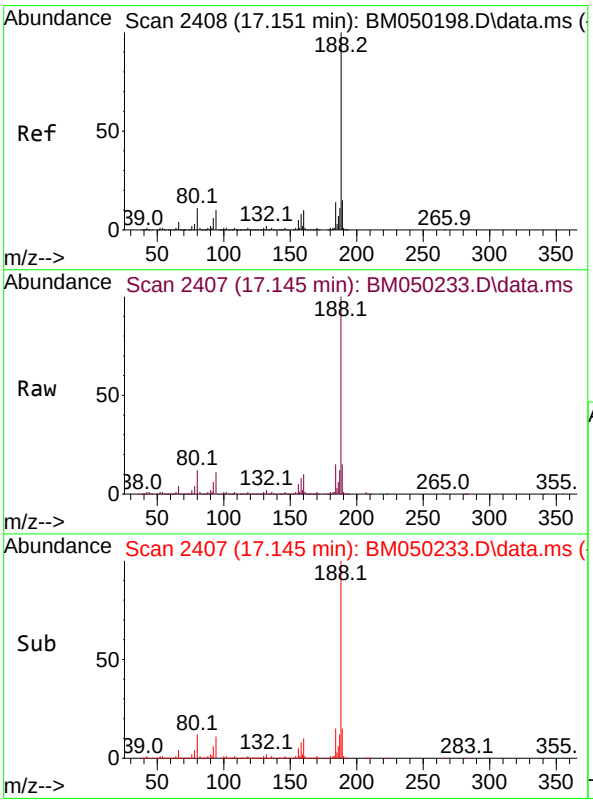
#58
Fluorene
Concen: 4.156 ng
RT: 15.457 min Scan# 21
Delta R.T. -0.006 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Instrument :
BNA_M
ClientSampleId :
B-202-SB01

Tgt Ion:166 Resp: 171436

Ion	Ratio	Lower	Upper
166	100		
165	99.4	77.0	115.4
167	13.2	10.7	16.1

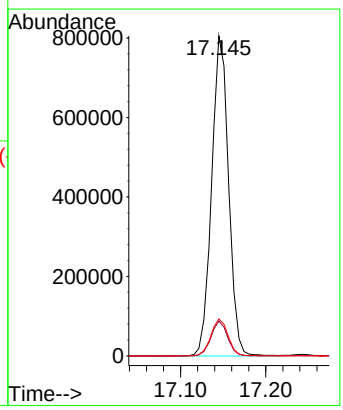


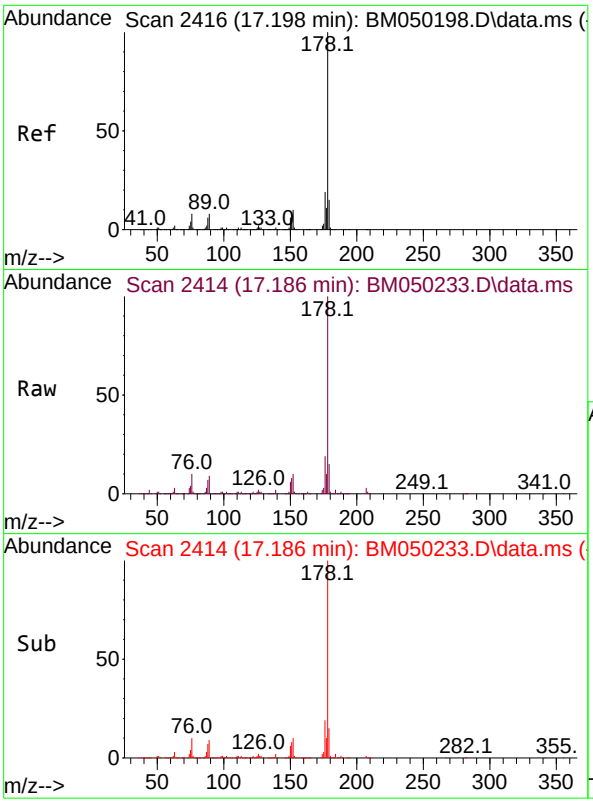


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.145 min Scan# 2407
Delta R.T. -0.012 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Tgt Ion:188 Resp: 1109436

Ion	Ratio	Lower	Upper
188	100		
94	10.9	8.1	12.1
80	11.5	8.6	13.0



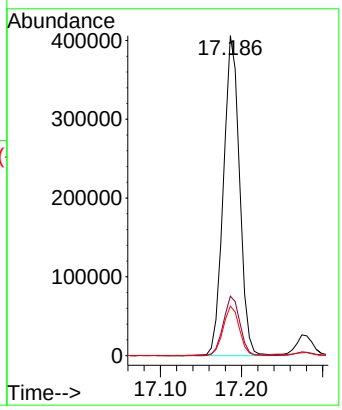


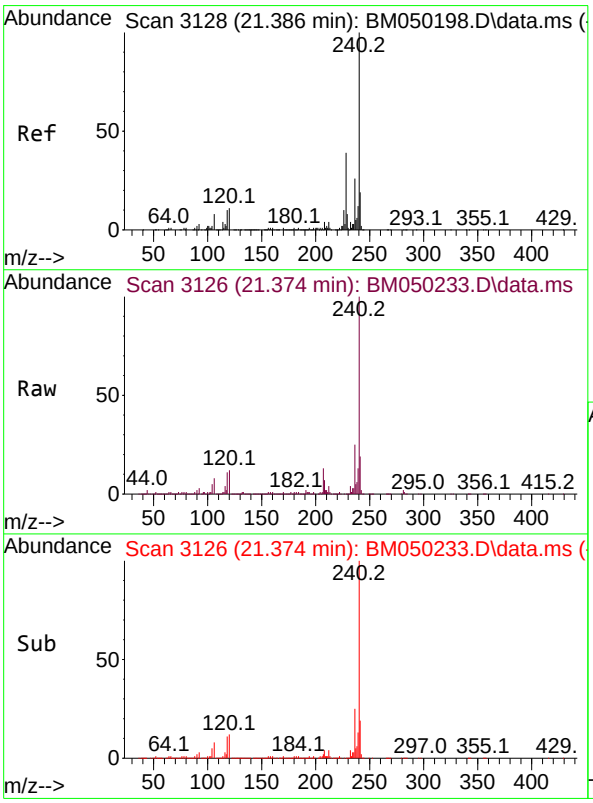
#71
Phenanthrene
Concen: 8.818 ng
RT: 17.186 min Scan# 24
Delta R.T. -0.012 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Instrument :
BNA_M
ClientSampleId :
B-202-SB01

Tgt Ion:178 Resp: 558859

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.6	23.4
179	15.5	12.3	18.5

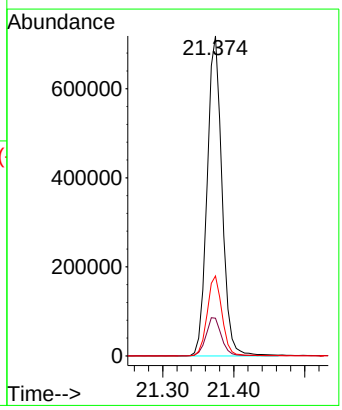


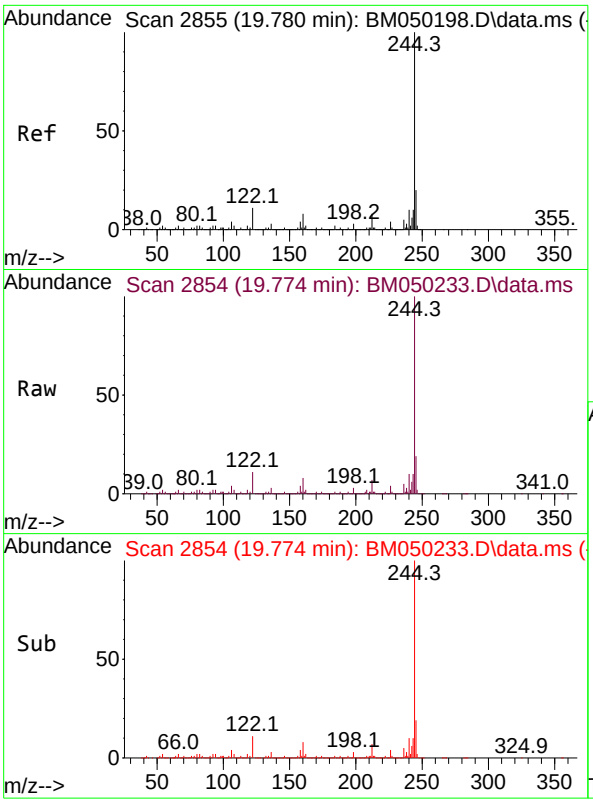


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.374 min Scan# 3126
Delta R.T. -0.012 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Tgt Ion:240 Resp: 1043232

Ion	Ratio	Lower	Upper
240	100		
120	11.8	9.0	13.4
236	25.0	20.7	31.1



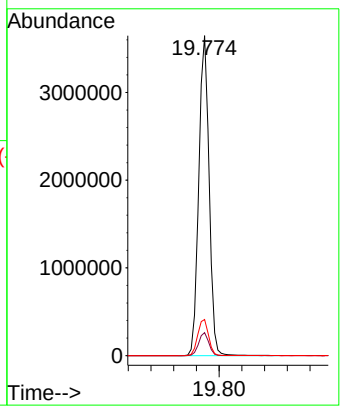


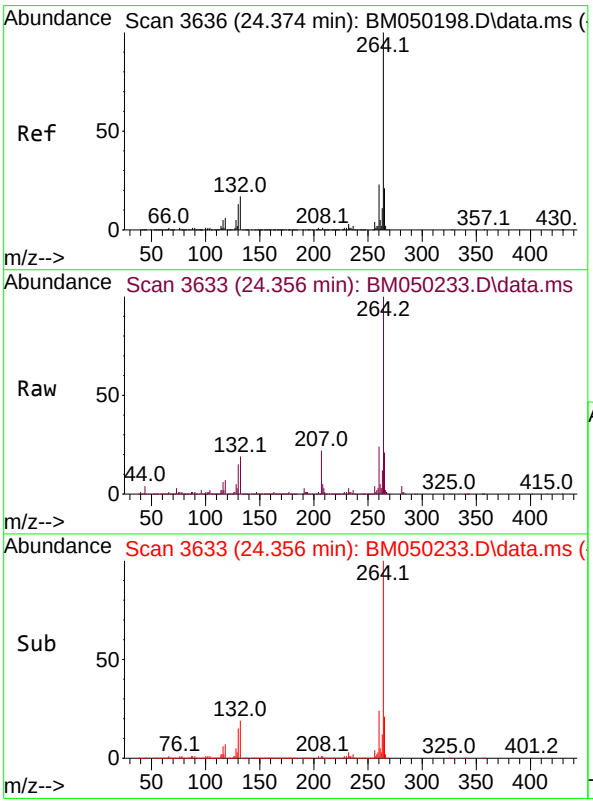
#79
Terphenyl-d14
Concen: 82.998 ng
RT: 19.774 min Scan# 2
Delta R.T. -0.012 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Instrument :
BNA_M
ClientSampleId :
B-202-SB01

Tgt Ion:244 Resp: 4569124

Ion	Ratio	Lower	Upper
244	100		
212	7.2	6.0	9.0
122	11.3	8.6	12.8

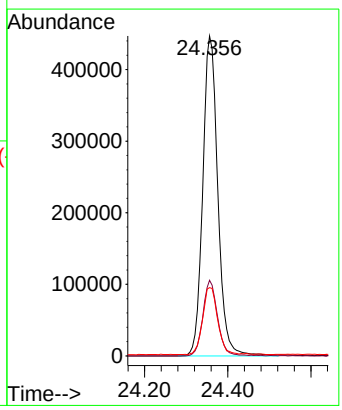




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.356 min Scan# 3633
Delta R.T. -0.018 min
Lab File: BM050233.D
Acq: 07 Jun 2025 04:00

Tgt Ion:264 Resp: 1124100

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.6	28.0
265	21.3	16.8	25.2



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050207.D
Acq On : 06 Jun 2025 10:08
Operator : RC/JU
Sample : PB168269BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB168269BL

Quant Time: Jun 06 10:53:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

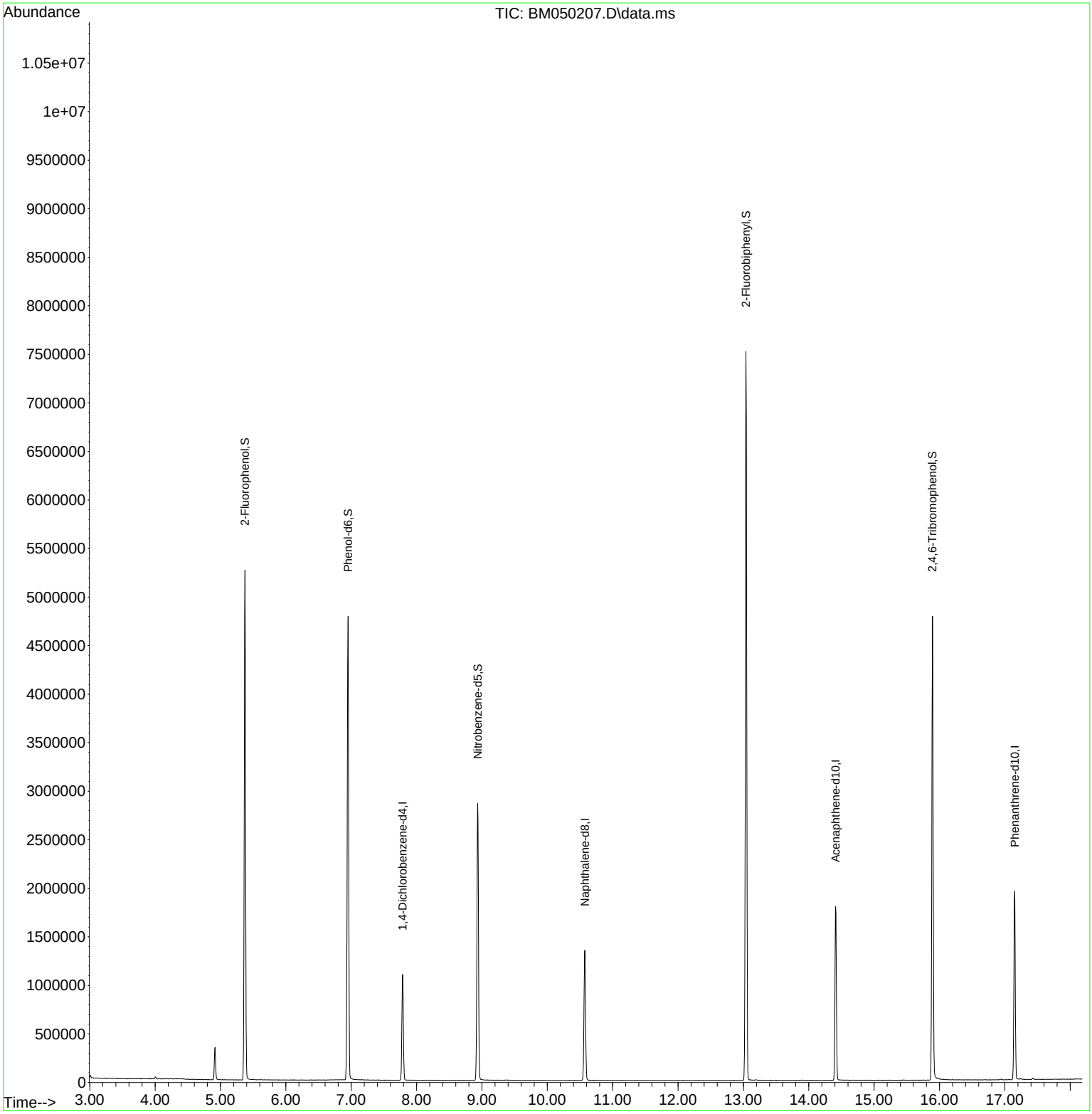
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.787	152	307416	20.000	ng	0.00
21) Naphthalene-d8	10.575	136	1142669	20.000	ng	0.00
39) Acenaphthene-d10	14.410	164	634427	20.000	ng	0.00
64) Phenanthrene-d10	17.151	188	1133741	20.000	ng	0.00
76) Chrysene-d12	21.380	240	982238	20.000	ng	0.00
86) Perylene-d12	24.368	264	1022855	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	2527466	137.149	ng	0.00
7) Phenol-d6	6.951	99	3136982	129.309	ng	0.00
23) Nitrobenzene-d5	8.934	82	1832446	83.403	ng	-0.01
42) 2,4,6-Tribromophenol	15.892	330	906461	125.615	ng	-0.01
45) 2-Fluorobiphenyl	13.039	172	3884866	82.902	ng	-0.01
79) Terphenyl-d14	19.780	244	4336326	83.660	ng	0.00
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050207.D
Acq On : 06 Jun 2025 10:08
Operator : RC/JU
Sample : PB168269BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB168269BL

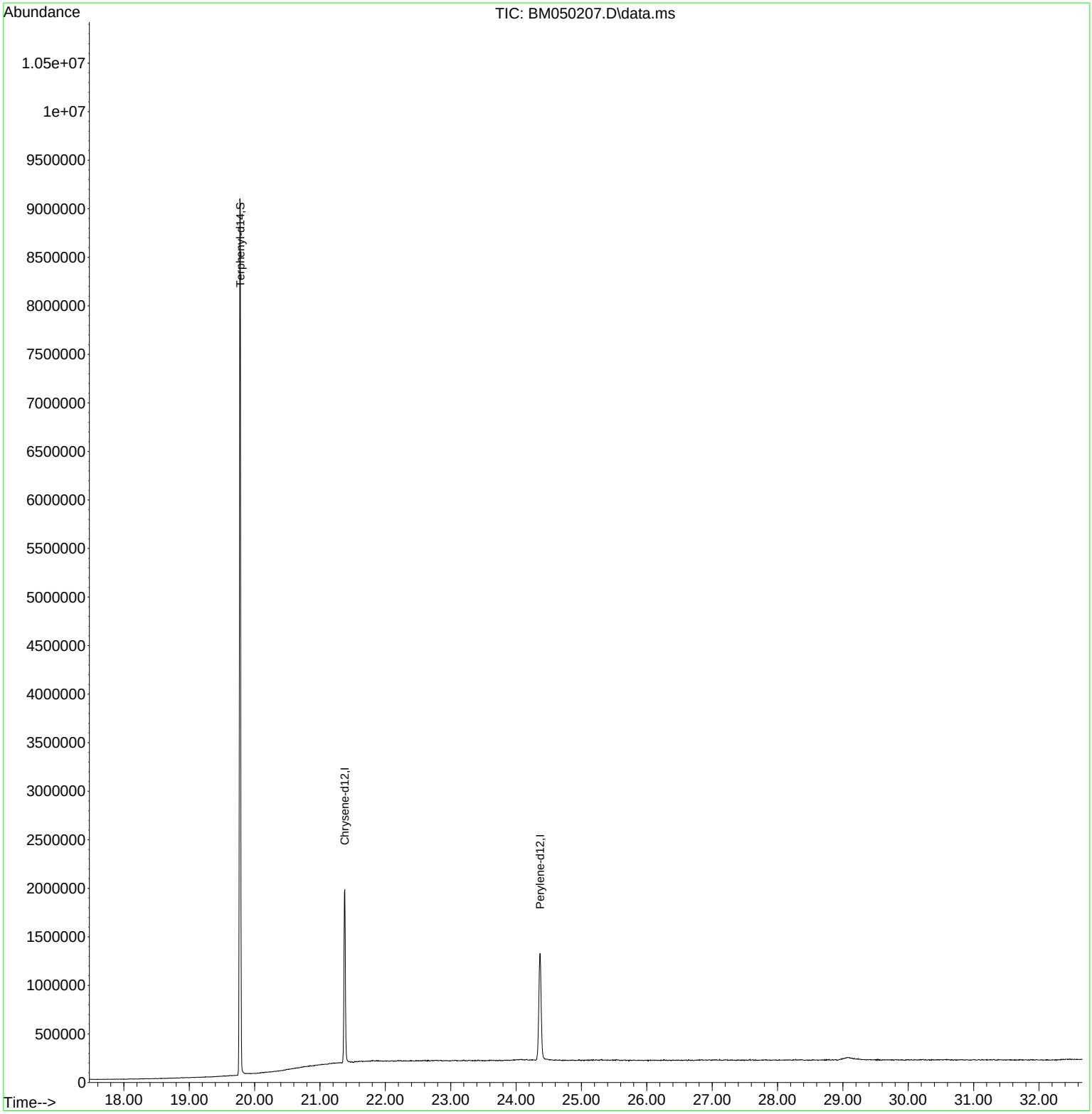
Quant Time: Jun 06 10:53:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

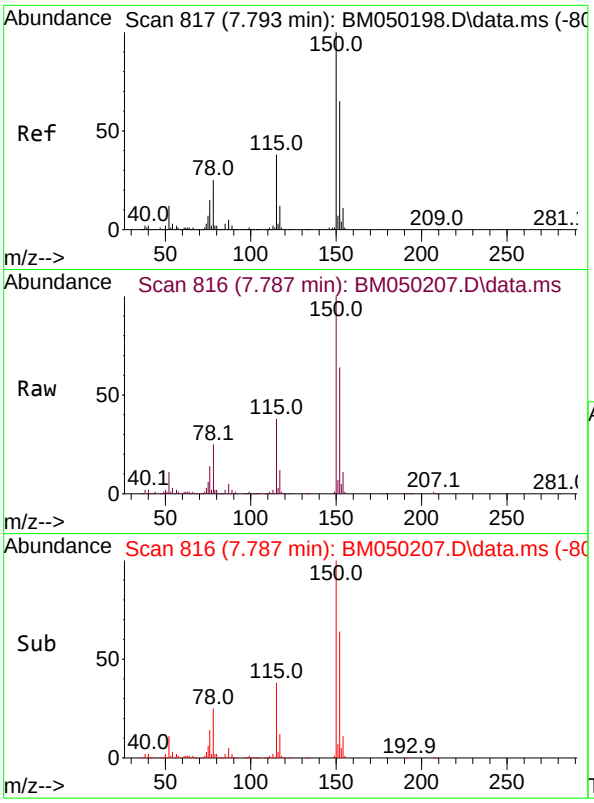


Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050207.D
Acq On : 06 Jun 2025 10:08
Operator : RC/JU
Sample : PB168269BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
PB168269BL

Quant Time: Jun 06 10:53:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration



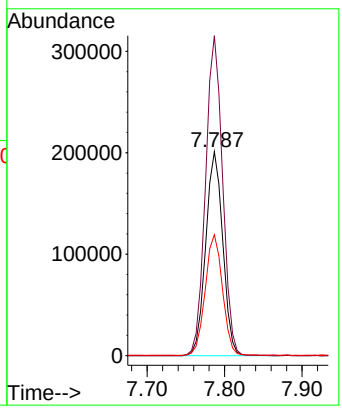


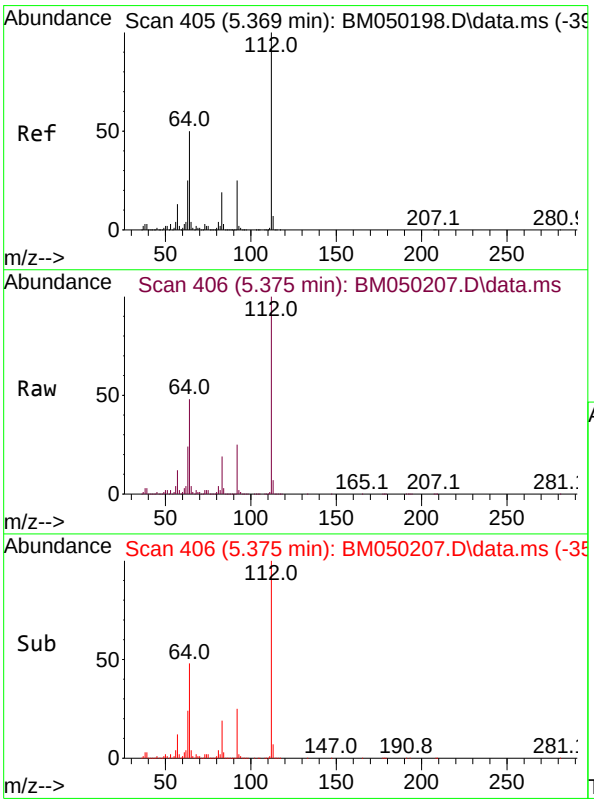
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.787 min Scan# 81
Delta R.T. -0.006 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

Instrument :
BNA_M
ClientSampleId :
PB168269BL

Tgt Ion:152 Resp: 307416

Ion	Ratio	Lower	Upper
152	100		
150	157.0	122.2	183.4
115	59.3	46.3	69.5

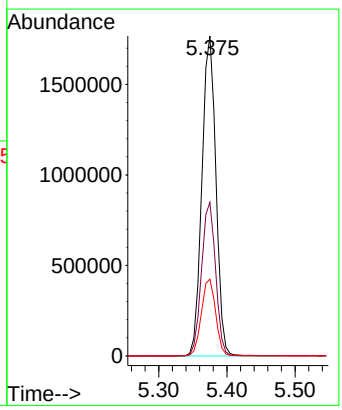


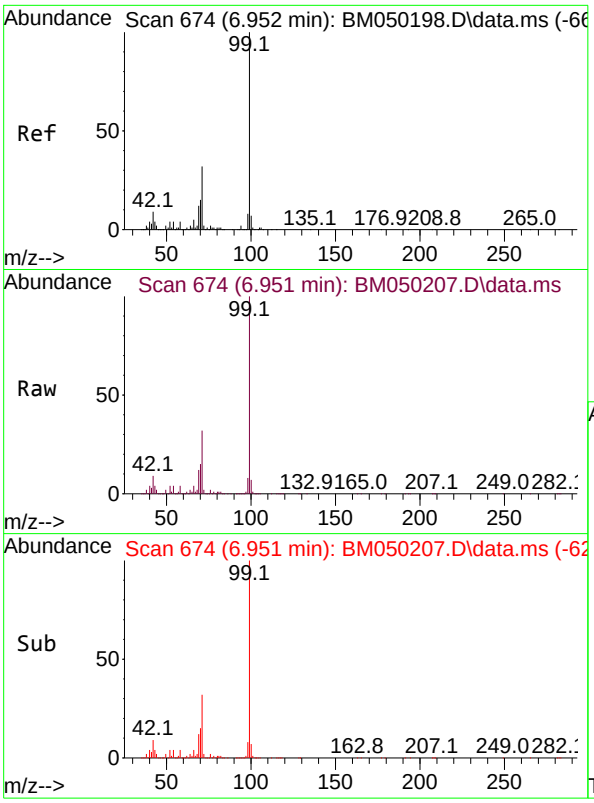


#5
2-Fluorophenol
Concen: 137.149 ng
RT: 5.375 min Scan# 406
Delta R.T. -0.000 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

Tgt Ion:112 Resp: 2527466

Ion	Ratio	Lower	Upper
112	100		
64	48.0	39.8	59.6
63	24.0	19.8	29.8



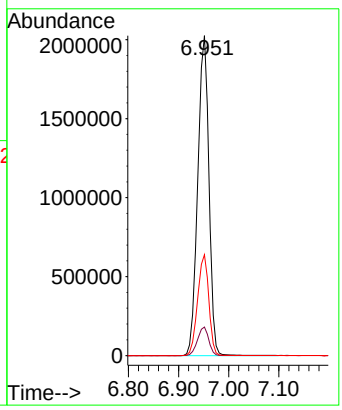


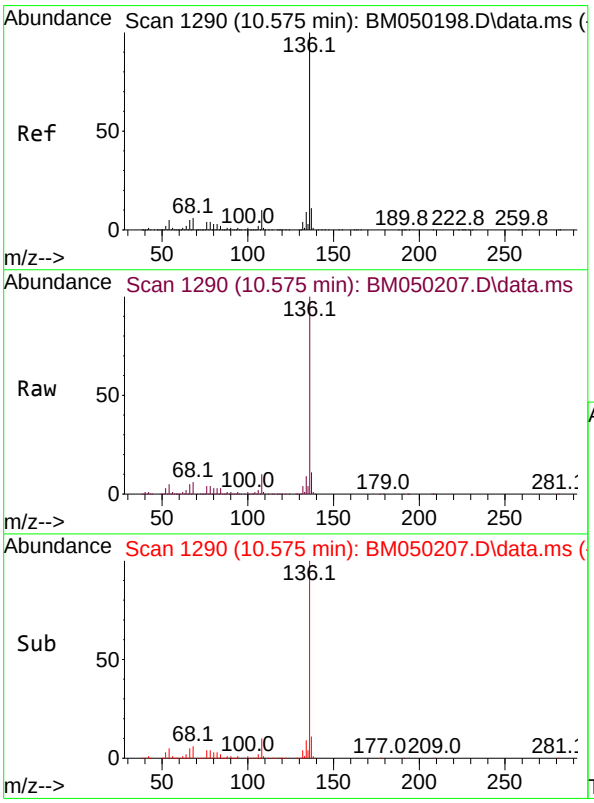
#7
Phenol-d6
Concen: 129.309 ng
RT: 6.951 min Scan# 6
Delta R.T. -0.006 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

Instrument :
BNA_M
ClientSampleId :
PB168269BL

Tgt Ion: 99 Resp: 3136982

Ion	Ratio	Lower	Upper
99	100		
42	8.9	6.9	10.3
71	31.5	25.3	37.9

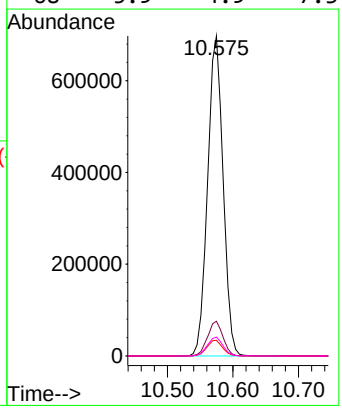


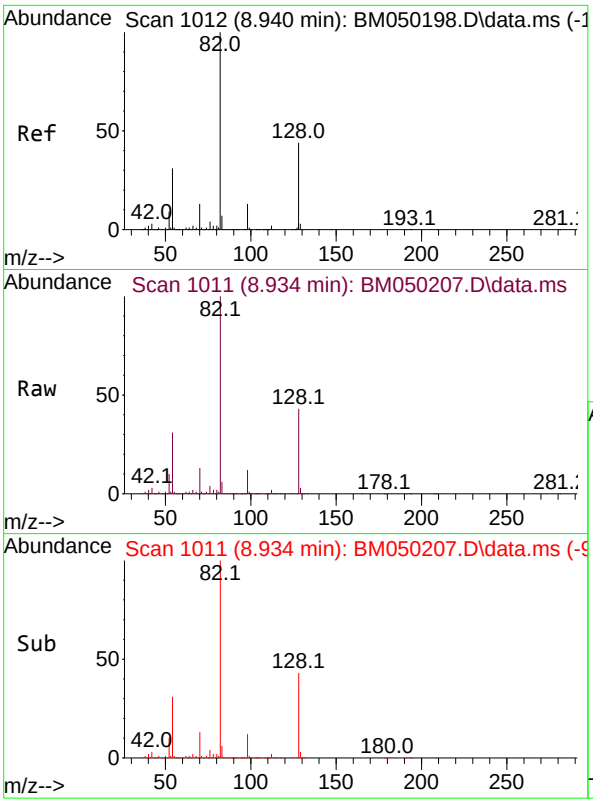


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.575 min Scan# 1290
Delta R.T. -0.006 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

Tgt Ion:136 Resp: 1142669

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	13.0
54	4.9	3.8	5.8
68	5.9	4.9	7.3



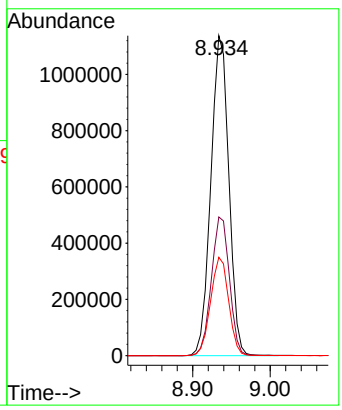


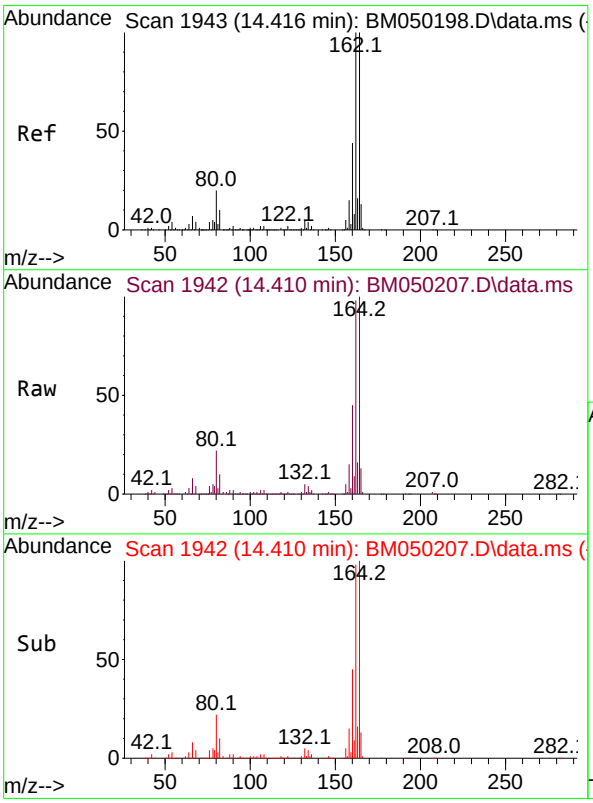
#23
Nitrobenzene-d5
Concen: 83.403 ng
RT: 8.934 min Scan# 1
Delta R.T. -0.012 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

Instrument :
BNA_M
ClientSampleId :
PB168269BL

Tgt Ion: 82 Resp: 1832446

Ion	Ratio	Lower	Upper
82	100		
128	43.3	35.2	52.8
54	30.7	24.5	36.7

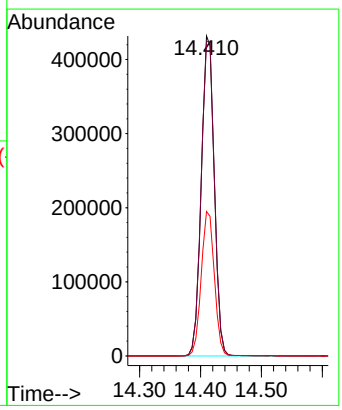


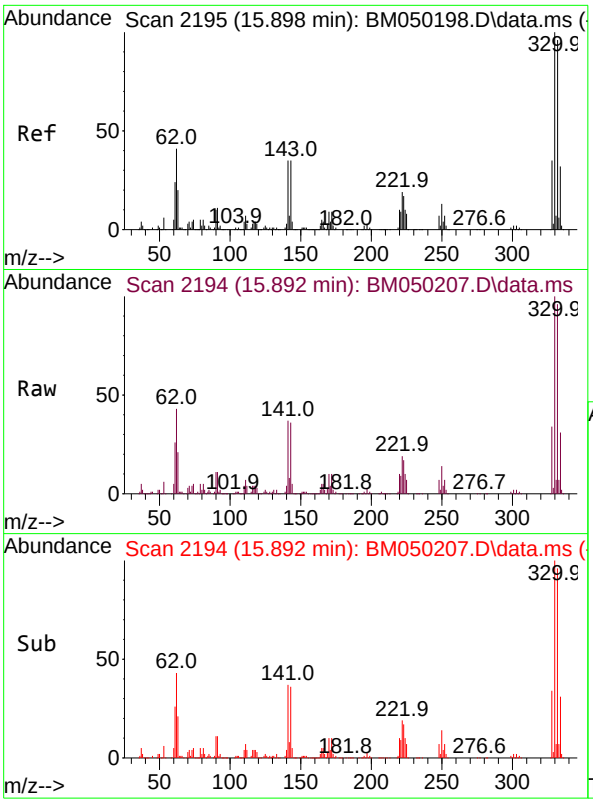


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.410 min Scan# 1942
Delta R.T. -0.006 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

Tgt Ion:164 Resp: 634427

Ion	Ratio	Lower	Upper
164	100		
162	98.3	80.2	120.4
160	45.1	35.7	53.5



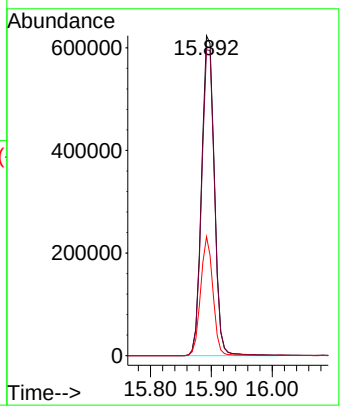


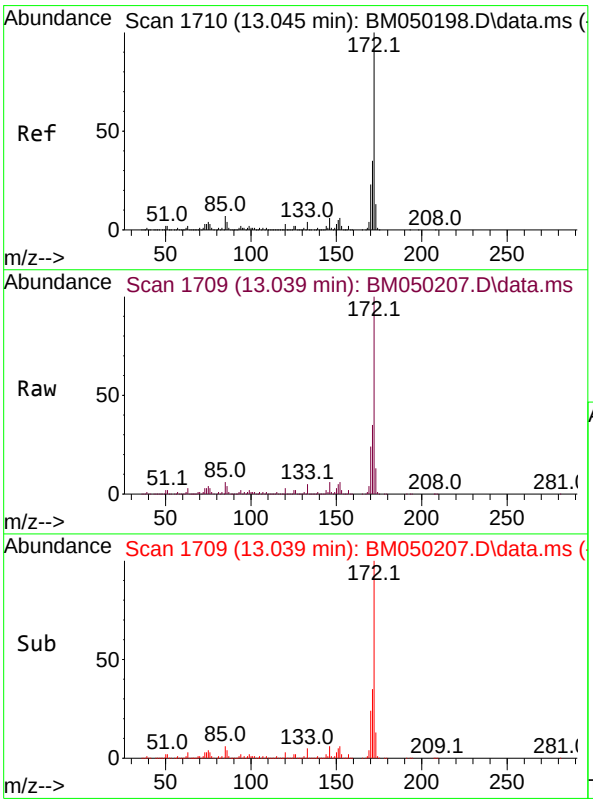
#42
2,4,6-Tribromophenol
Concen: 125.615 ng
RT: 15.892 min Scan# 21
Delta R.T. -0.012 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

Instrument :
BNA_M
ClientSampleId :
PB168269BL

Tgt Ion:330 Resp: 906461

Ion	Ratio	Lower	Upper
330	100		
332	96.4	77.5	116.3
141	35.8	28.8	43.2

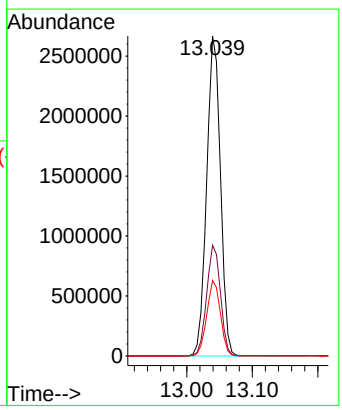


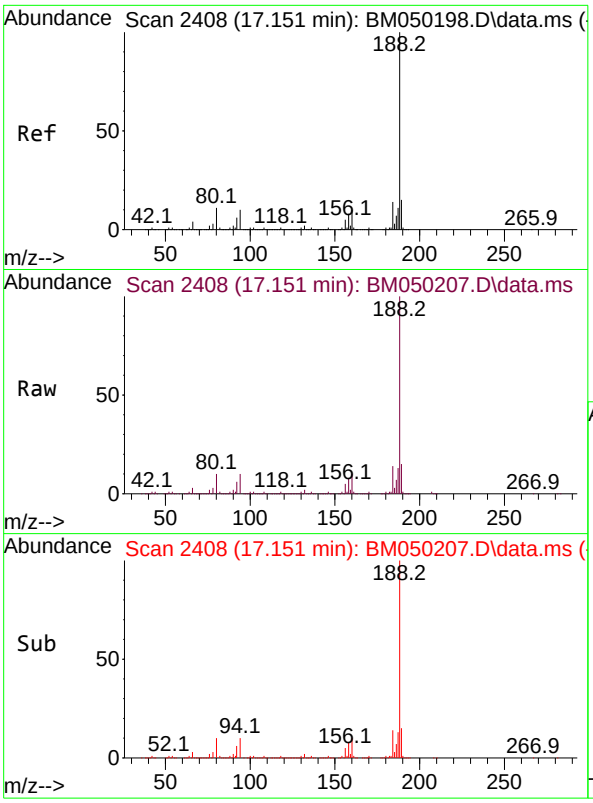


#45
2-Fluorobiphenyl
Concen: 82.902 ng
RT: 13.039 min Scan# 1709
Delta R.T. -0.012 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

Tgt Ion:172 Resp: 3884866

Ion	Ratio	Lower	Upper
172	100		
171	34.6	27.8	41.6
170	23.6	18.6	27.8



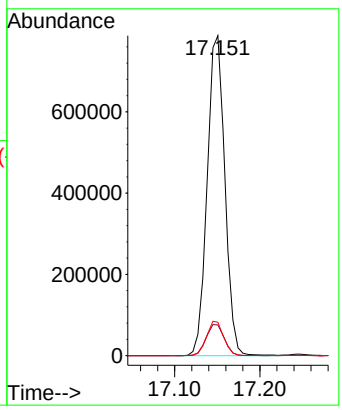


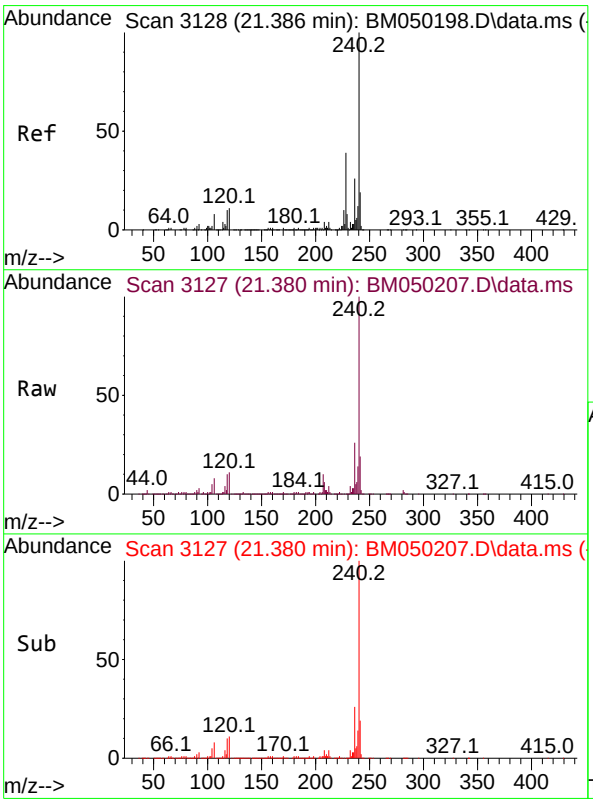
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.151 min Scan# 24
Delta R.T. -0.006 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

Instrument :
BNA_M
ClientSampleId :
PB168269BL

Tgt Ion:188 Resp: 1133741

Ion	Ratio	Lower	Upper
188	100		
94	9.6	8.1	12.1
80	10.4	8.6	13.0

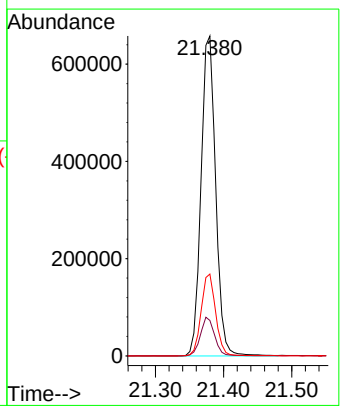


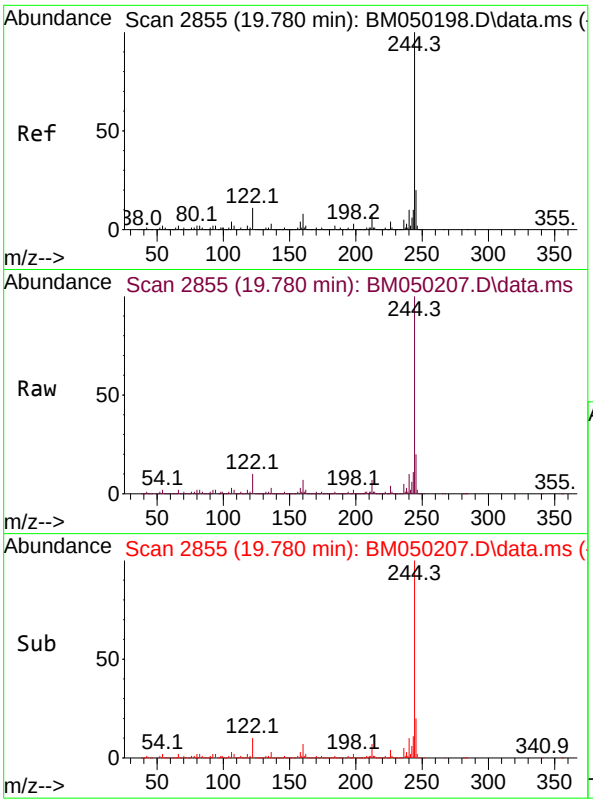


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.380 min Scan# 3127
Delta R.T. -0.006 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

Tgt Ion:240 Resp: 982238

Ion	Ratio	Lower	Upper
240	100		
120	11.1	9.0	13.4
236	25.6	20.7	31.1



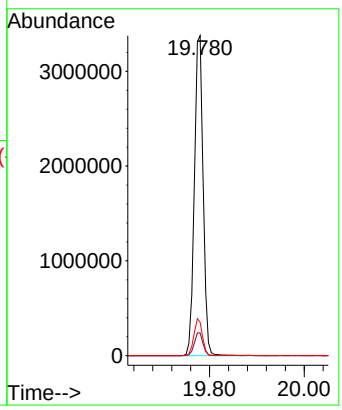


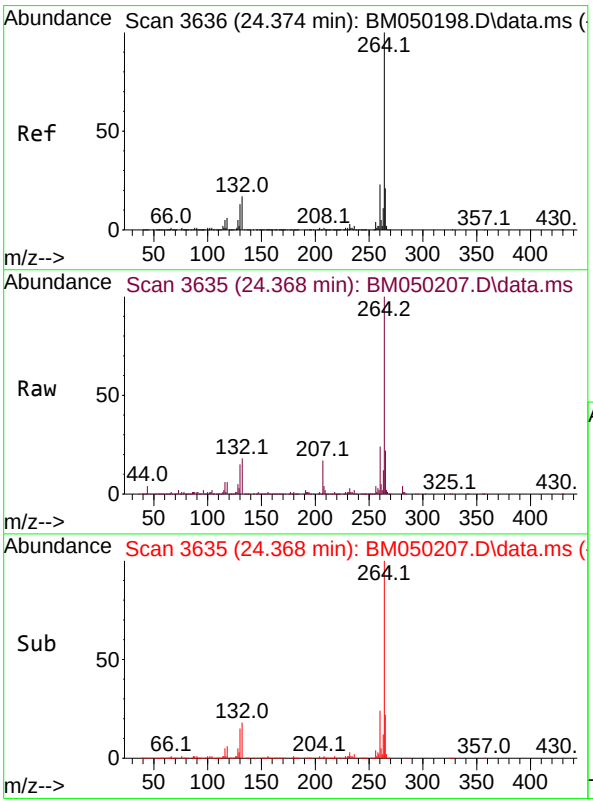
#79
Terphenyl-d14
Concen: 83.660 ng
RT: 19.780 min Scan# 28
Delta R.T. -0.006 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

Instrument :
BNA_M
ClientSampleId :
PB168269BL

Tgt Ion:244 Resp: 4336326

Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	10.4	8.6	12.8

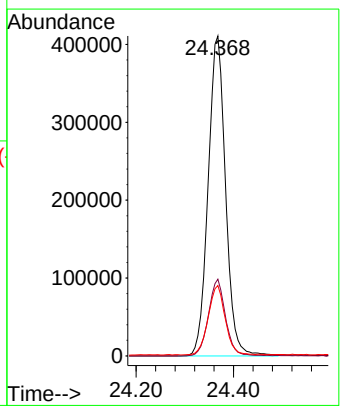




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.368 min Scan# 3635
Delta R.T. -0.006 min
Lab File: BM050207.D
Acq: 06 Jun 2025 10:08

Tgt Ion:264 Resp: 1022855

Ion	Ratio	Lower	Upper
264	100		
260	24.0	18.6	28.0
265	22.0	16.8	25.2



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050208.D
Acq On : 06 Jun 2025 10:47
Operator : RC/JU
Sample : PB168269BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 11:23:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
PB168269BS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.786	152	327776	20.000	ng		0.00
21) Naphthalene-d8	10.575	136	1233278	20.000	ng		0.00
39) Acenaphthene-d10	14.415	164	655553	20.000	ng		0.00
64) Phenanthrene-d10	17.151	188	1123564	20.000	ng		0.00
76) Chrysene-d12	21.380	240	1060555	20.000	ng		0.00
86) Perylene-d12	24.368	264	1186020	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.375	112	2567295	130.657	ng		0.00
7) Phenol-d6	6.951	99	3136308	121.251	ng		0.00
23) Nitrobenzene-d5	8.939	82	1892430	79.805	ng		0.00
42) 2,4,6-Tribromophenol	15.898	330	914951	122.706	ng		0.00
45) 2-Fluorobiphenyl	13.045	172	3882156	80.174	ng		0.00
79) Terphenyl-d14	19.780	244	4436403	79.271	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.293	88	325321	37.771	ng		99
3) Pyridine	3.681	79	904757	40.563	ng		100
4) n-Nitrosodimethylamine	3.593	42	208634	45.234	ng		99
6) Aniline	7.110	93	837259	24.485	ng		98
8) 2-Chlorophenol	7.351	128	992699	45.930	ng		100
9) Benzaldehyde	6.922	77	542414	32.983	ng		99
10) Phenol	6.981	94	1215351	44.407	ng		98
11) bis(2-Chloroethyl)ether	7.210	93	981243	44.575	ng		99
12) 1,3-Dichlorobenzene	7.681	146	1093012	45.236	ng		100
13) 1,4-Dichlorobenzene	7.822	146	1114691	44.340	ng		99
14) 1,2-Dichlorobenzene	8.139	146	1068631	44.590	ng		99
15) Benzyl Alcohol	8.022	79	794202	43.049	ng		100
16) 2,2'-oxybis(1-Chloropr...	8.322	45	679997	44.467	ng		99
17) 2-Methylphenol	8.222	107	782986	43.360	ng		99
18) Hexachloroethane	8.869	117	420967	46.239	ng		99
19) n-Nitroso-di-n-propyla...	8.592	70	663797	41.936	ng		98
20) 3+4-Methylphenols	8.551	107	1032399	42.732	ng		99
22) Acetophenone	8.604	105	1394781	45.269	ng	#	98
24) Nitrobenzene	8.980	77	1008774	46.775	ng		99
25) Isophorone	9.510	82	1809915	44.221	ng		99
26) 2-Nitrophenol	9.686	139	452068	48.560	ng		99
27) 2,4-Dimethylphenol	9.751	122	860580	44.991	ng		99
28) bis(2-Chloroethoxy)met...	9.992	93	1192528	44.601	ng		99
29) 2,4-Dichlorophenol	10.222	162	815245	46.057	ng		99
30) 1,2,4-Trichlorobenzene	10.439	180	918180	46.614	ng		99
31) Naphthalene	10.627	128	2842640	44.581	ng		100
32) Benzoic acid	9.869	122	514873	42.831	ng		99
33) 4-Chloroaniline	10.727	127	288124	10.599	ng		98
34) Hexachlorobutadiene	10.922	225	550713	47.004	ng		99
35) Caprolactam	11.492	113	228114	40.649	ng		93
36) 4-Chloro-3-methylphenol	11.851	107	803016	42.515	ng		100
37) 2-Methylnaphthalene	12.239	142	1697571	44.131	ng		99
38) 1-Methylnaphthalene	12.457	142	1765176	43.235	ng		100
40) 1,2,4,5-Tetrachloroben...	12.610	216	919860	48.593	ng		99
41) Hexachlorocyclopentadiene	12.598	237	1246647	108.441	ng		98
43) 2,4,6-Trichlorophenol	12.845	196	596512	47.918	ng		99

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050208.D
Acq On : 06 Jun 2025 10:47
Operator : RC/JU
Sample : PB168269BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 11:23:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
PB168269BS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	2,4,5-Trichlorophenol	12.910	196	648023	47.413	ng		98
46)	1,1'-Biphenyl	13.251	154	2302794	46.912	ng		100
47)	2-Chloronaphthalene	13.292	162	1775566	46.527	ng		99
48)	2-Nitroaniline	13.486	65	406112	48.358	ng		99
49)	Acenaphthylene	14.133	152	2844003	46.075	ng		99
50)	Dimethylphthalate	13.874	163	1978120	44.618	ng		99
51)	2,6-Dinitrotoluene	13.980	165	425559	47.597	ng		95
52)	Acenaphthene	14.480	154	1905934	49.367	ng		99
53)	3-Nitroaniline	14.304	138	180262	18.090	ng		94
54)	2,4-Dinitrophenol	14.510	184	466278	90.070	ng		96
55)	Dibenzofuran	14.815	168	2529176	44.778	ng		99
56)	4-Nitrophenol	14.610	139	818441	96.500	ng		100
57)	2,4-Dinitrotoluene	14.768	165	582583	49.396	ng		99
58)	Fluorene	15.462	166	1923441	44.461	ng		100
59)	2,3,4,6-Tetrachlorophenol	15.033	232	539527m	45.625	ng		
60)	Diethylphthalate	15.245	149	1933121	43.945	ng		99
61)	4-Chlorophenyl-phenyle...	15.462	204	928607	44.414	ng		98
62)	4-Nitroaniline	15.468	138	395494	42.346	ng		99
63)	Azobenzene	15.751	77	1951359	44.381	ng		98
65)	4,6-Dinitro-2-methylph...	15.527	198	292506	47.665	ng		95
66)	n-Nitrosodiphenylamine	15.668	169	1684849	47.725	ng		99
67)	4-Bromophenyl-phenylether	16.351	248	573472	47.863	ng		99
68)	Hexachlorobenzene	16.462	284	665920	47.570	ng		98
69)	Atrazine	16.621	200	556402	49.464	ng		100
70)	Pentachlorophenol	16.804	266	897621	98.626	ng		99
71)	Phenanthrene	17.192	178	2959230	46.104	ng		100
72)	Anthracene	17.286	178	3004594	46.793	ng		100
73)	Carbazole	17.551	167	2762804	47.230	ng		99
74)	Di-n-butylphthalate	18.133	149	3068125	48.203	ng		100
75)	Fluoranthene	19.203	202	3170134	46.834	ng		98
77)	Benzidine	19.386	184	762450	25.565	ng		100
78)	Pyrene	19.568	202	3317752	46.414	ng		99
80)	Butylbenzylphthalate	20.480	149	1200885	50.365	ng		97
81)	Benzo(a)anthracene	21.362	228	3170963	47.237	ng		100
82)	3,3'-Dichlorobenzidine	21.286	252	487751	23.827	ng		100
83)	Chrysene	21.427	228	3030852	47.465	ng		99
84)	Bis(2-ethylhexyl)phtha...	21.315	149	1865304	50.788	ng		98
85)	Di-n-octyl phthalate	22.456	149	3032564	55.644	ng		100
87)	Indeno(1,2,3-cd)pyrene	27.744	276	4171594	54.627	ng	#	93
88)	Benzo(b)fluoranthene	23.427	252	3291254	47.730	ng		100
89)	Benzo(k)fluoranthene	23.491	252	3268507	46.432	ng		99
90)	Benzo(a)pyrene	24.227	252	3181588	49.074	ng		99
91)	Dibenzo(a,h)anthracene	27.809	278	3373519	54.424	ng		98
92)	Benzo(g,h,i)perylene	28.791	276	3433734	55.347	ng		100

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

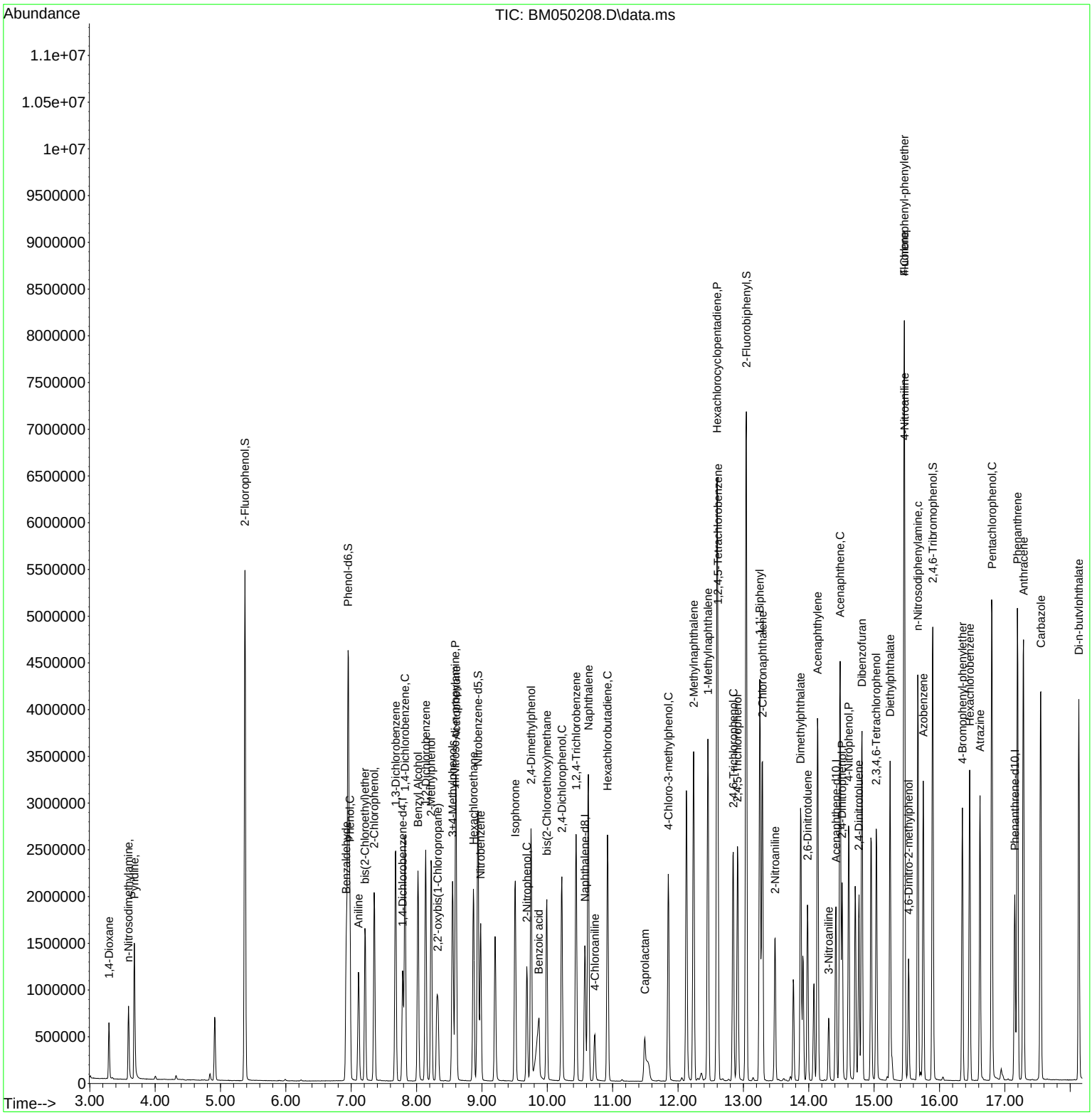
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050208.D
Acq On : 06 Jun 2025 10:47
Operator : RC/JU
Sample : PB168269BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 11:23:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
PB168269BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025



Quantitation Report (QT Reviewed)

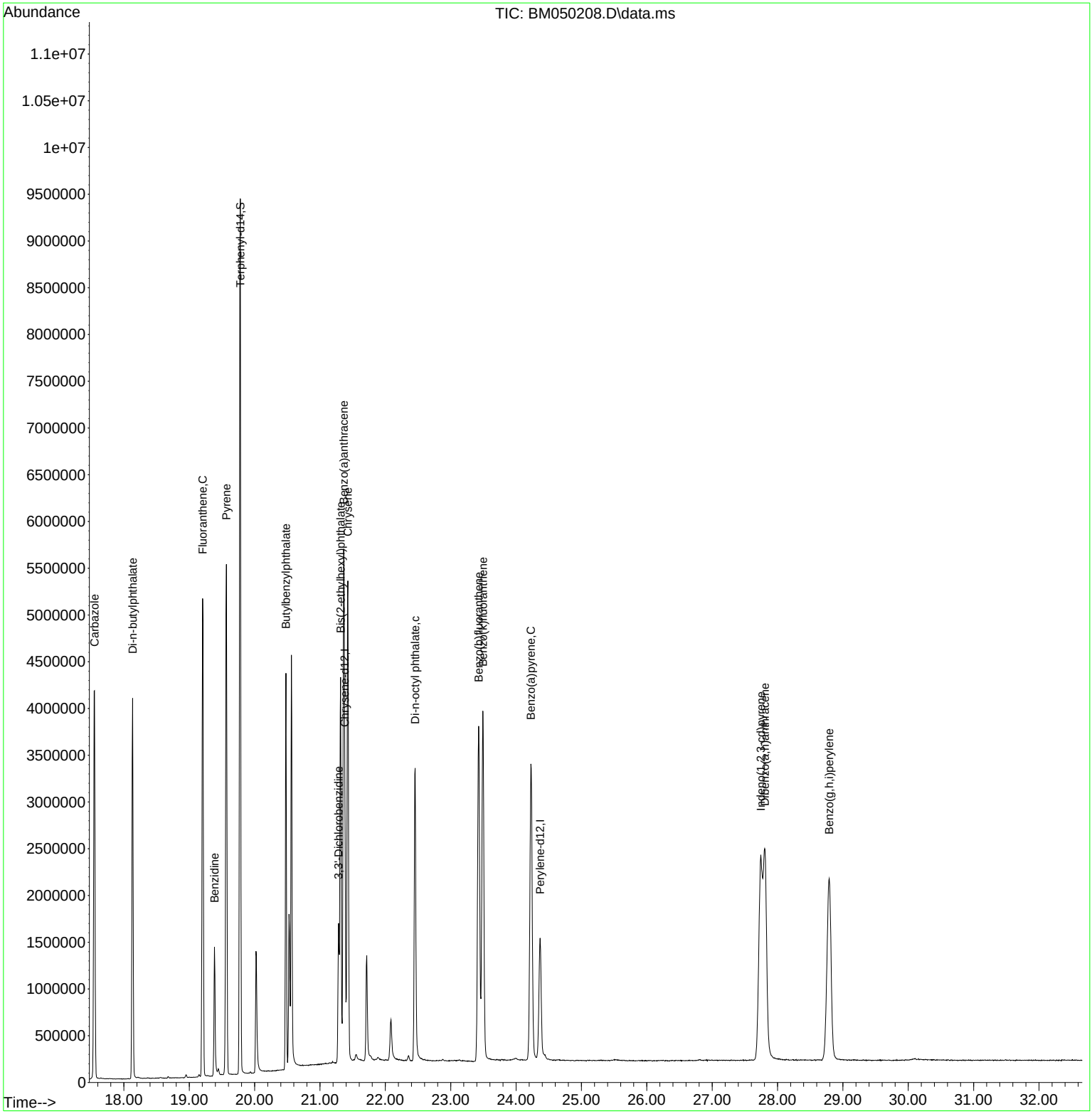
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050208.D
Acq On : 06 Jun 2025 10:47
Operator : RC/JU
Sample : PB168269BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jun 06 11:23:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
PB168269BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025



Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050210.D
Acq On : 06 Jun 2025 12:06
Operator : RC/JU
Sample : Q2177-03MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 06 12:38:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
B-187-SB01MS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.787	152	326296	20.000	ng		0.00
21) Naphthalene-d8	10.575	136	1267565	20.000	ng		0.00
39) Acenaphthene-d10	14.416	164	684770	20.000	ng		0.00
64) Phenanthrene-d10	17.151	188	1179346	20.000	ng		0.00
76) Chrysene-d12	21.380	240	1089185	20.000	ng		0.00
86) Perylene-d12	24.368	264	1220890	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.375	112	2382563	121.805	ng		0.00
7) Phenol-d6	6.951	99	2812170	109.213	ng		0.00
23) Nitrobenzene-d5	8.939	82	1937115	79.480	ng		0.00
42) 2,4,6-Tribromophenol	15.898	330	969471	124.470	ng		0.00
45) 2-Fluorobiphenyl	13.045	172	3927928	77.659	ng		0.00
79) Terphenyl-d14	19.780	244	4567622	79.470	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.305	88	307156	35.824	ng	#	76
3) Pyridine	3.693	79	829922	37.377	ng		99
4) n-Nitrosodimethylamine	3.599	42	195836	42.652	ng		96
6) Aniline	7.116	93	636648	18.703	ng		98
8) 2-Chlorophenol	7.351	128	953896	44.335	ng		99
9) Benzaldehyde	6.928	77	331231	20.233	ng		99
10) Phenol	6.981	94	1055295	38.734	ng		99
11) bis(2-Chloroethyl)ether	7.216	93	939657	42.879	ng		100
12) 1,3-Dichlorobenzene	7.681	146	906130	37.672	ng		99
13) 1,4-Dichlorobenzene	7.822	146	941185	37.608	ng		99
14) 1,2-Dichlorobenzene	8.140	146	911840	38.220	ng		98
15) Benzyl Alcohol	8.022	79	799947	43.557	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.316	45	640359	42.065	ng		98
17) 2-Methylphenol	8.222	107	764025	42.501	ng		99
18) Hexachloroethane	8.869	117	343431	37.893	ng		100
19) n-Nitroso-di-n-propyla...	8.592	70	665245	42.218	ng		99
20) 3+4-Methylphenols	8.551	107	1011265	42.047	ng		99
22) Acetophenone	8.604	105	1363804	43.066	ng	#	99
24) Nitrobenzene	8.981	77	991933	44.750	ng		99
25) Isophorone	9.510	82	1843904	43.833	ng		99
26) 2-Nitrophenol	9.686	139	446203	46.634	ng		98
27) 2,4-Dimethylphenol	9.751	122	870473	44.277	ng		100
28) bis(2-Chloroethoxy)met...	9.992	93	1203792	43.804	ng		100
29) 2,4-Dichlorophenol	10.222	162	821582	45.159	ng		99
30) 1,2,4-Trichlorobenzene	10.439	180	854167	42.191	ng		100
31) Naphthalene	10.628	128	2759166	42.102	ng		100
32) Benzoic acid	9.863	122	448266	36.282	ng		99
33) 4-Chloroaniline	10.728	127	165910	5.938	ng		97
34) Hexachlorobutadiene	10.922	225	499405	41.472	ng		99
35) Caprolactam	11.486	113	203525	35.286	ng		97
36) 4-Chloro-3-methylphenol	11.851	107	825779	42.538	ng		98
37) 2-Methylnaphthalene	12.239	142	1691822	42.792	ng		99
38) 1-Methylnaphthalene	12.457	142	1762386	41.999	ng		100
40) 1,2,4,5-Tetrachloroben...	12.610	216	919589	46.506	ng		99
41) Hexachlorocyclopentadiene	12.598	237	1103835	91.922	ng		99
43) 2,4,6-Trichlorophenol	12.845	196	620811	47.742	ng		99

Quantitation Report (QT Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050210.D
Acq On : 06 Jun 2025 12:06
Operator : RC/JU
Sample : Q2177-03MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 06 12:38:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
B-187-SB01MS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025

	Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44)	2,4,5-Trichlorophenol	12.910	196	667141	46.729	ng	98
46)	1,1'-Biphenyl	13.251	154	2341527	45.666	ng	98
47)	2-Chloronaphthalene	13.292	162	1792919	44.977	ng	99
48)	2-Nitroaniline	13.486	65	427535	48.737	ng	99
49)	Acenaphthylene	14.133	152	2916115	45.228	ng	99
50)	Dimethylphthalate	13.874	163	2077786	44.866	ng	99
51)	2,6-Dinitrotoluene	13.980	165	442037	47.330	ng	94
52)	Acenaphthene	14.480	154	1930436	47.868	ng	100
53)	3-Nitroaniline	14.304	138	186328	17.901	ng	99
54)	2,4-Dinitrophenol	14.510	184	415808	74.958	ng	98
55)	Dibenzofuran	14.816	168	2598540	44.043	ng	100
56)	4-Nitrophenol	14.610	139	759762	85.759	ng	100
57)	2,4-Dinitrotoluene	14.768	165	601051	48.787	ng	99
58)	Fluorene	15.463	166	2002920	44.323	ng	99
59)	2,3,4,6-Tetrachlorophenol	15.033	232	554722m	44.909	ng	
60)	Diethylphthalate	15.245	149	2023715	44.042	ng	99
61)	4-Chlorophenyl-phenyle...	15.463	204	958609	43.892	ng	98
62)	4-Nitroaniline	15.468	138	405168	41.531	ng	98
63)	Azobenzene	15.751	77	2021498	44.015	ng	99
65)	4,6-Dinitro-2-methylph...	15.527	198	283528	44.016	ng	97
66)	n-Nitrosodiphenylamine	15.668	169	1749325	47.208	ng	100
67)	4-Bromophenyl-phenylether	16.351	248	599446	47.664	ng	99
68)	Hexachlorobenzene	16.462	284	690076	46.964	ng	97
69)	Atrazine	16.621	200	563892	47.759	ng	100
70)	Pentachlorophenol	16.798	266	916700	95.958	ng	99
71)	Phenanthrene	17.192	178	3030486	44.981	ng	99
72)	Anthracene	17.286	178	3066040	45.491	ng	100
73)	Carbazole	17.545	167	2802423	45.641	ng	100
74)	Di-n-butylphthalate	18.133	149	3131978	46.879	ng	100
75)	Fluoranthene	19.203	202	3233462	45.511	ng	99
77)	Benzidine	19.386	184	634071	20.702	ng	99
78)	Pyrene	19.568	202	3367898	45.877	ng	99
80)	Butylbenzylphthalate	20.480	149	1220876	49.857	ng	99
81)	Benzo(a)anthracene	21.362	228	3202268	46.450	ng	99
82)	3,3'-Dichlorobenzidine	21.286	252	453770	21.584	ng	99
83)	Chrysene	21.427	228	3030304	46.209	ng	99
84)	Bis(2-ethylhexyl)phtha...	21.315	149	1831065	48.545	ng	100
85)	Di-n-octyl phthalate	22.456	149	2992661	53.468	ng	100
87)	Indeno(1,2,3-cd)pyrene	27.738	276	4161319	52.936	ng	100
88)	Benzo(b)fluoranthene	23.433	252	3292419	46.383	ng	100
89)	Benzo(k)fluoranthene	23.491	252	3248849	44.834	ng	100
90)	Benzo(a)pyrene	24.233	252	3177372	47.609	ng	98
91)	Dibenzo(a,h)anthracene	27.809	278	3351181	52.519	ng	98
92)	Benzo(g,h,i)perylene	28.791	276	3427026	53.661	ng	100

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

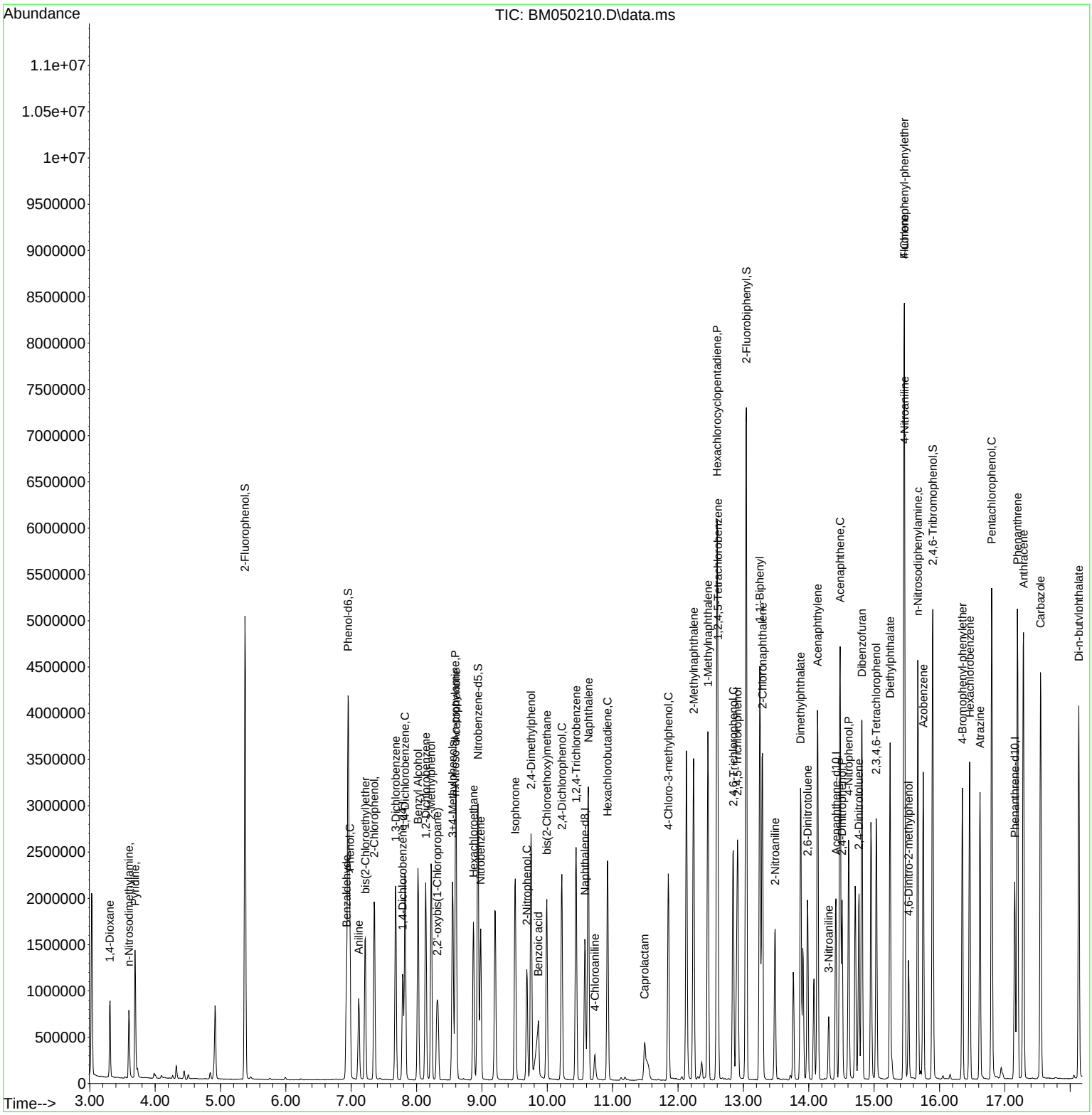
Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050210.D
Acq On : 06 Jun 2025 12:06
Operator : RC/JU
Sample : Q2177-03MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jun 06 12:38:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

Instrument :
BNA_M
ClientSampleId :
B-187-SB01MS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050210.D
Acq On : 06 Jun 2025 12:06
Operator : RC/JU
Sample : Q2177-03MS
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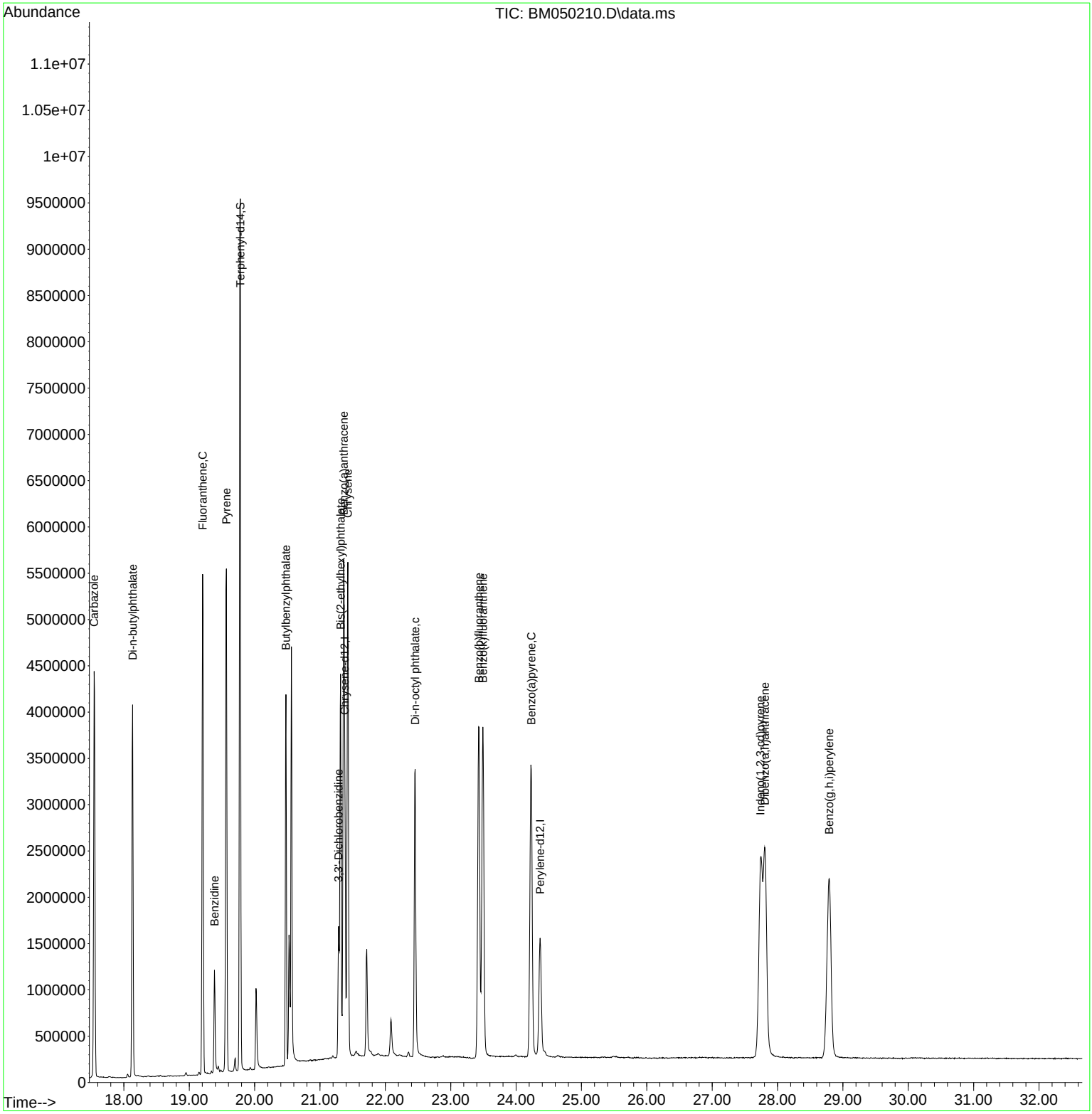
Instrument :
BNA_M
ClientSampleId :
B-187-SB01MS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 06/09/2025
Supervised By :Jagrut Upadhyay 06/09/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050211.D
Acq On : 06 Jun 2025 12:46
Operator : RC/JU
Sample : Q2177-03MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-187-SB01MSD

Quant Time: Jun 06 14:32:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.786	152	347769	20.000	ng	0.00
21) Naphthalene-d8	10.575	136	1350319	20.000	ng	0.00
39) Acenaphthene-d10	14.415	164	744312	20.000	ng	0.00
64) Phenanthrene-d10	17.151	188	1278962	20.000	ng	0.00
76) Chrysene-d12	21.386	240	1127474	20.000	ng	0.00
86) Perylene-d12	24.368	264	1245310	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	2430803	116.598	ng	0.00
7) Phenol-d6	6.957	99	2905330	105.864	ng	0.00
23) Nitrobenzene-d5	8.939	82	2004766	77.214	ng	0.00
42) 2,4,6-Tribromophenol	15.898	330	1020943	120.593	ng	0.00
45) 2-Fluorobiphenyl	13.045	172	4129019	75.104	ng	0.00
79) Terphenyl-d14	19.780	244	4641959	78.021	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.304	88	304263	33.295	ng	# 77
3) Pyridine	3.693	79	827427	34.964	ng	99
4) n-Nitrosodimethylamine	3.599	42	193516	39.545	ng	95
6) Aniline	7.116	93	729082	20.096	ng	99
8) 2-Chlorophenol	7.357	128	974022	42.475	ng	99
9) Benzaldehyde	6.928	77	349435	20.027	ng	100
10) Phenol	6.981	94	1087108	37.438	ng	99
11) bis(2-Chloroethyl)ether	7.216	93	950012	40.675	ng	99
12) 1,3-Dichlorobenzene	7.681	146	922280	35.976	ng	99
13) 1,4-Dichlorobenzene	7.822	146	952487	35.710	ng	99
14) 1,2-Dichlorobenzene	8.139	146	937100	36.854	ng	99
15) Benzyl Alcohol	8.022	79	826863	42.243	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.322	45	643282	39.648	ng	100
17) 2-Methylphenol	8.228	107	797691	41.634	ng	99
18) Hexachloroethane	8.869	117	350837	36.320	ng	100
19) n-Nitroso-di-n-propyla...	8.592	70	683284	40.685	ng	99
20) 3+4-Methylphenols	8.551	107	1054728	41.147	ng	99
22) Acetophenone	8.604	105	1400969	41.529	ng	99
24) Nitrobenzene	8.981	77	1011971	42.856	ng	99
25) Isophorone	9.510	82	1912338	42.674	ng	99
26) 2-Nitrophenol	9.686	139	471795	46.287	ng	99
27) 2,4-Dimethylphenol	9.751	122	918348	43.849	ng	98
28) bis(2-Chloroethoxy)met...	9.992	93	1245014	42.528	ng	100
29) 2,4-Dichlorophenol	10.222	162	873426	45.067	ng	99
30) 1,2,4-Trichlorobenzene	10.439	180	886234	41.092	ng	99
31) Naphthalene	10.627	128	2831466	40.557	ng	100
32) Benzoic acid	9.863	122	477925	36.311	ng	98
33) 4-Chloroaniline	10.727	127	187043	6.284	ng	99
34) Hexachlorobutadiene	10.922	225	516046	40.227	ng	100
35) Caprolactam	11.492	113	211805	34.472	ng	97
36) 4-Chloro-3-methylphenol	11.851	107	877820	42.447	ng	100
37) 2-Methylnaphthalene	12.239	142	1772625	42.088	ng	99
38) 1-Methylnaphthalene	12.457	142	1844686	41.266	ng	100
40) 1,2,4,5-Tetrachloroben...	12.610	216	960082	44.670	ng	99
41) Hexachlorocyclopentadiene	12.598	237	1140357	87.366	ng	97
43) 2,4,6-Trichlorophenol	12.845	196	659262	46.644	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050211.D
Acq On : 06 Jun 2025 12:46
Operator : RC/JU
Sample : Q2177-03MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-187-SB01MSD

Quant Time: Jun 06 14:32:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration

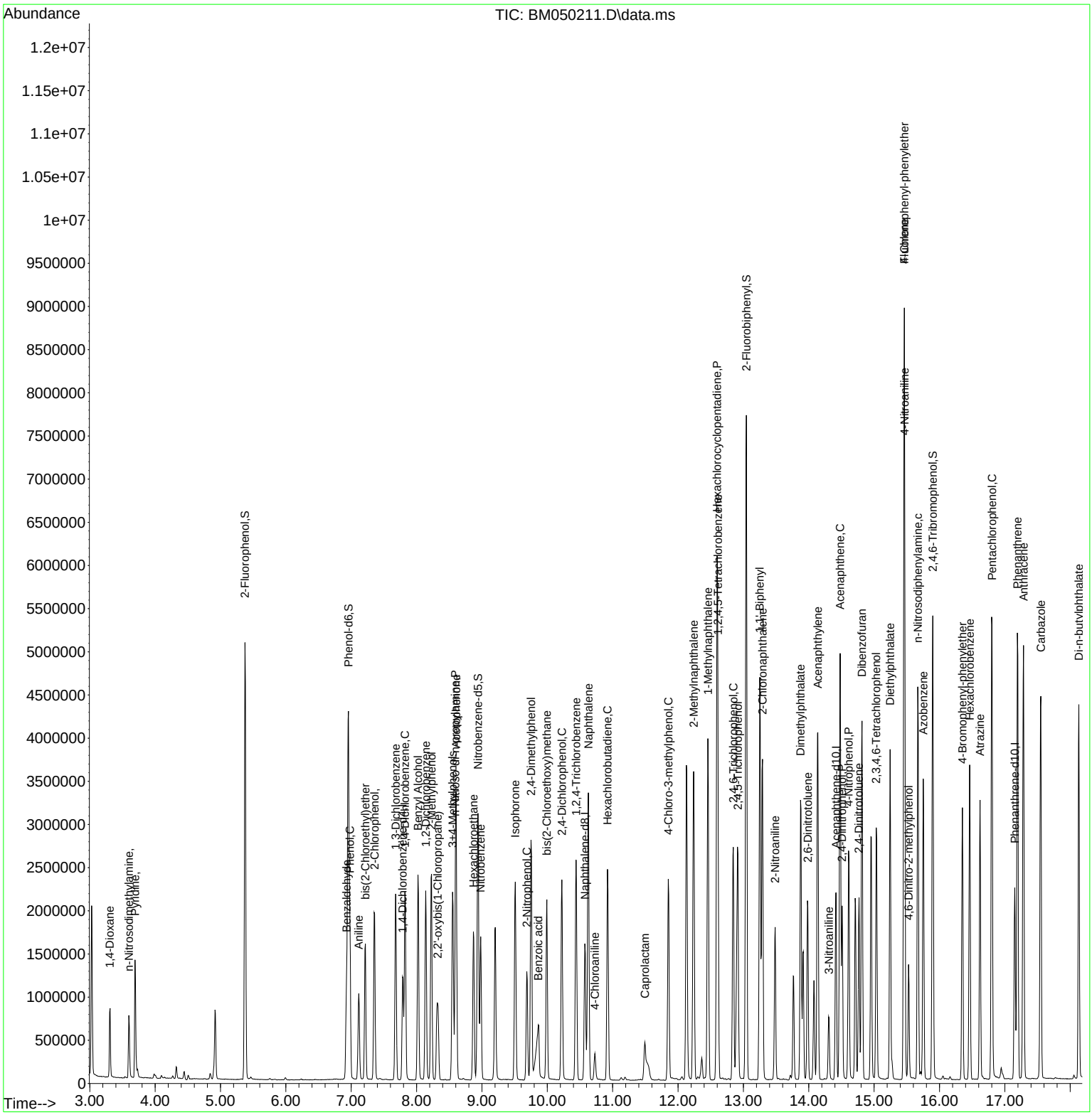
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.916	196	711164	45.827	ng		99
46) 1,1'-Biphenyl	13.251	154	2452677	44.007	ng		99
47) 2-Chloronaphthalene	13.292	162	1881619	43.426	ng		100
48) 2-Nitroaniline	13.486	65	452934	47.502	ng		98
49) Acenaphthylene	14.139	152	3052359	43.554	ng		100
50) Dimethylphthalate	13.874	163	2192800	43.562	ng		99
51) 2,6-Dinitrotoluene	13.986	165	471247	46.422	ng		99
52) Acenaphthene	14.480	154	2026567	46.232	ng		99
53) 3-Nitroaniline	14.310	138	203472	17.984	ng		98
54) 2,4-Dinitrophenol	14.510	184	442324	73.179	ng		97
55) Dibenzofuran	14.815	168	2748348	42.856	ng		99
56) 4-Nitrophenol	14.610	139	789854	82.024	ng		99
57) 2,4-Dinitrotoluene	14.768	165	637253	47.588	ng		99
58) Fluorene	15.462	166	2086832	42.486	ng		99
59) 2,3,4,6-Tetrachlorophenol	15.033	232	586771	43.703	ng		93
60) Diethylphthalate	15.245	149	2118106	42.409	ng		99
61) 4-Chlorophenyl-phenyle...	15.462	204	1007290	42.432	ng		97
62) 4-Nitroaniline	15.468	138	431923	40.732	ng		98
63) Azobenzene	15.751	77	2096222	41.991	ng		98
65) 4,6-Dinitro-2-methylph...	15.527	198	303524	43.451	ng		98
66) n-Nitrosodiphenylamine	15.668	169	1833639	45.629	ng		99
67) 4-Bromophenyl-phenylether	16.351	248	631109	46.273	ng		99
68) Hexachlorobenzene	16.462	284	727918	45.681	ng		98
69) Atrazine	16.621	200	590156	46.090	ng		98
70) Pentachlorophenol	16.804	266	953669	92.052	ng		99
71) Phenanthrene	17.192	178	3163946	43.304	ng		100
72) Anthracene	17.286	178	3193033	43.685	ng		100
73) Carbazole	17.551	167	2890483	43.408	ng		100
74) Di-n-butylphthalate	18.133	149	3263385	45.042	ng		100
75) Fluoranthene	19.203	202	3320524	43.096	ng		99
77) Benzidine	19.386	184	701246	22.118	ng		99
78) Pyrene	19.568	202	3454160	45.454	ng		99
80) Butylbenzylphthalate	20.480	149	1245626	49.140	ng		99
81) Benzo(a)anthracene	21.368	228	3199318	44.831	ng		100
82) 3,3'-Dichlorobenzidine	21.286	252	474153	21.788	ng		99
83) Chrysene	21.427	228	3033462	44.686	ng		99
84) Bis(2-ethylhexyl)phtha...	21.315	149	1868435	47.853	ng		99
85) Di-n-octyl phthalate	22.456	149	3010702	51.964	ng		100
87) Indeno(1,2,3-cd)pyrene	27.744	276	4044672	50.443	ng	#	93
88) Benzo(b)fluoranthene	23.433	252	3187024	44.018	ng		99
89) Benzo(k)fluoranthene	23.497	252	3248023	43.944	ng		99
90) Benzo(a)pyrene	24.232	252	3112925	45.728	ng		99
91) Dibenzo(a,h)anthracene	27.809	278	3254856	50.009	ng		100
92) Benzo(g,h,i)perylene	28.791	276	3327556	51.082	ng		99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050211.D
Acq On : 06 Jun 2025 12:46
Operator : RC/JU
Sample : Q2177-03MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-187-SB01MSD

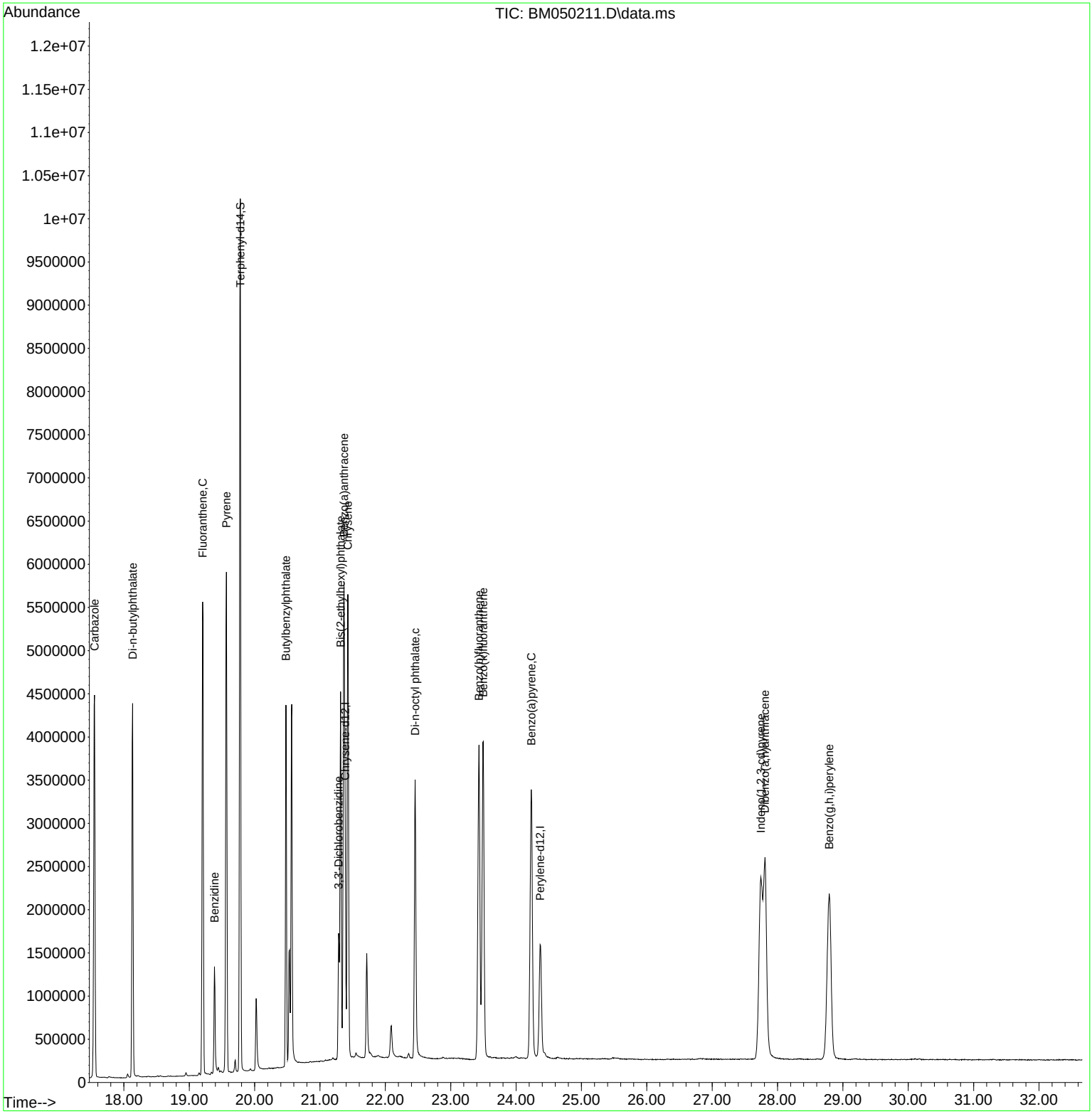
Quant Time: Jun 06 14:32:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_M\Data\BM060625\
Data File : BM050211.D
Acq On : 06 Jun 2025 12:46
Operator : RC/JU
Sample : Q2177-03MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_M
ClientSampleId :
B-187-SB01MSD

Quant Time: Jun 06 14:32:41 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_M\Methods\8270-BM060525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Jun 05 16:20:25 2025
Response via : Initial Calibration



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

Manual Integration Report

Sequence:	BM060525	Instrument	BNA_m

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BM050195.D	2,3,4,6-Tetrachlorophenol	Rahul	6/6/2025 12:19:17 PM	Jagrut	6/6/2025 1:16:08 PM	Peak Integrated by Software
SSTDICC005	BM050195.D	Benzaldehyde	Rahul	6/6/2025 12:19:17 PM	Jagrut	6/6/2025 1:16:08 PM	Peak Integrated by Software
SSTDICC010	BM050196.D	2,3,4,6-Tetrachlorophenol	Rahul	6/5/2025 4:48:25 PM	Jagrut	6/6/2025 1:16:10 PM	Peak Integrated by Software
SSTDICC020	BM050197.D	Benzaldehyde	Rahul	6/6/2025 12:19:19 PM	Jagrut	6/6/2025 1:16:13 PM	Peak Integrated by Software
SSTDICCC040	BM050198.D	2,3,4,6-Tetrachlorophenol	Rahul	6/5/2025 4:48:28 PM	Jagrut	6/6/2025 1:16:15 PM	Peak Integrated by Software
SSTDICV040	BM050202.D	Benzaldehyde	Rahul	6/5/2025 4:48:30 PM	Jagrut	6/6/2025 1:16:18 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BM060625	Instrument	BNA_m

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BM050206.D	2,3,4,6-Tetrachlorophenol	Rahul	6/9/2025 10:50:24 AM	Jagrut	6/9/2025 12:05:51 PM	Peak Integrated by Software
PB168269BS	BM050208.D	2,3,4,6-Tetrachlorophenol	Rahul	6/9/2025 10:50:30 AM	Jagrut	6/9/2025 12:05:54 PM	Peak Integrated by Software
Q2177-03MS	BM050210.D	2,3,4,6-Tetrachlorophenol	Rahul	6/9/2025 10:50:33 AM	Jagrut	6/9/2025 12:05:56 PM	Peak Integrated by Software
SSTDCCC040	BM050223.D	2,3,4,6-Tetrachlorophenol	Rahul	6/9/2025 10:50:43 AM	Jagrut	6/9/2025 12:06:05 PM	Peak Integrated by Software

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

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM060525

Review By	Rahul	Review On	6/6/2025 12:27:19 PM				
Supervise By	Jagrut	Supervise On	6/6/2025 1:16:37 PM				
SubDirectory	BM060525	HP Acquire Method	BNA_M		HP Processing Method	bm060525	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6796
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BM050193.D	05 Jun 2025 08:40	RC/JU	Ok
2	SSTDICC2.5	BM050194.D	05 Jun 2025 09:20	RC/JU	Ok
3	SSTDICC005	BM050195.D	05 Jun 2025 09:59	RC/JU	Ok,M
4	SSTDICC010	BM050196.D	05 Jun 2025 10:38	RC/JU	Ok,M
5	SSTDICC020	BM050197.D	05 Jun 2025 11:17	RC/JU	Ok,M
6	SSTDICCC040	BM050198.D	05 Jun 2025 11:57	RC/JU	Ok,M
7	SSTDICC050	BM050199.D	05 Jun 2025 12:36	RC/JU	Ok
8	SSTDICC060	BM050200.D	05 Jun 2025 13:16	RC/JU	Ok
9	SSTDICC080	BM050201.D	05 Jun 2025 13:56	RC/JU	Ok
10	SSTDICV040	BM050202.D	05 Jun 2025 14:36	RC/JU	Ok,M
11	PB168224TB	BM050203.D	05 Jun 2025 16:35	RC/JU	Ok
12	SP6794	BM050204.D	05 Jun 2025 17:15	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM060625

Review By	Rahul	Review On	6/9/2025 11:33:37 AM				
Supervise By	Jagrut	Supervise On	6/9/2025 12:06:36 PM				
SubDirectory	BM060625	HP Acquire Method	BNA_M		HP Processing Method	bm060525	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6796
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BM050205.D	06 Jun 2025 08:50	RC/JU	Ok
2	SSTDCCC040	BM050206.D	06 Jun 2025 09:29	RC/JU	Ok,M
3	PB168269BL	BM050207.D	06 Jun 2025 10:08	RC/JU	Ok
4	PB168269BS	BM050208.D	06 Jun 2025 10:47	RC/JU	Ok,M
5	Q2177-03	BM050209.D	06 Jun 2025 11:27	RC/JU	Ok
6	Q2177-03MS	BM050210.D	06 Jun 2025 12:06	RC/JU	Ok,M
7	Q2177-03MSD	BM050211.D	06 Jun 2025 12:46	RC/JU	Ok
8	Q2194-02	BM050212.D	06 Jun 2025 13:26	RC/JU	Ok
9	Q2194-02MS	BM050213.D	06 Jun 2025 14:06	RC/JU	Ok
10	Q2194-02MSD	BM050214.D	06 Jun 2025 14:46	RC/JU	Ok
11	Q2194-04	BM050215.D	06 Jun 2025 15:26	RC/JU	Ok,M
12	Q2207-09	BM050216.D	06 Jun 2025 16:06	RC/JU	Ok,M
13	Q2207-18	BM050217.D	06 Jun 2025 16:45	RC/JU	Ok,M
14	Q2207-27	BM050218.D	06 Jun 2025 17:25	RC/JU	Ok
15	Q2207-36	BM050219.D	06 Jun 2025 18:05	RC/JU	Ok
16	Q2207-45	BM050220.D	06 Jun 2025 18:45	RC/JU	Ok
17	Q2208-09	BM050221.D	06 Jun 2025 19:24	RC/JU	Ok
18	DFTPP	BM050222.D	06 Jun 2025 20:43	RC/JU	Ok
19	SSTDCCC040	BM050223.D	06 Jun 2025 21:23	RC/JU	Ok,M
20	PB168314BL	BM050224.D	06 Jun 2025 22:03	RC/JU	Ok
21	PB168314BS	BM050225.D	06 Jun 2025 22:42	RC/JU	Ok,M

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM060625

Review By	Rahul	Review On	6/9/2025 11:33:37 AM		
Supervise By	Jagrut	Supervise On	6/9/2025 12:06:36 PM		
SubDirectory	BM060625	HP Acquire Method	BNA_M	HP Processing Method	bm060525

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6796
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB168271TB	BM050226.D	06 Jun 2025 23:22	RC/JU	Ok
23	Q2208-27	BM050227.D	07 Jun 2025 00:02	RC/JU	Ok
24	Q2208-36	BM050228.D	07 Jun 2025 00:41	RC/JU	Ok
25	Q2198-02	BM050229.D	07 Jun 2025 01:21	RC/JU	Ok
26	Q2198-04	BM050230.D	07 Jun 2025 02:01	RC/JU	Ok
27	Q2206-04	BM050231.D	07 Jun 2025 02:41	RC/JU	Ok
28	Q2177-05	BM050232.D	07 Jun 2025 03:20	RC/JU	Ok
29	Q2177-07	BM050233.D	07 Jun 2025 04:00	RC/JU	Ok
30	Q2208-18	BM050234.D	07 Jun 2025 04:39	RC/JU	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM060525

Review By	Rahul	Review On	6/6/2025 12:27:19 PM		
Supervise By	Jagrut	Supervise On	6/6/2025 1:16:37 PM		
SubDirectory	BM060525	HP Acquire Method	BNA_M	HP Processing Method	bm060525

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6796
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BM050193.D	05 Jun 2025 08:40		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BM050194.D	05 Jun 2025 09:20		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BM050195.D	05 Jun 2025 09:59	Compound #32,54,65,77 removed from 5PPM	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BM050196.D	05 Jun 2025 10:38	Compound #54 kept on QR	RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BM050197.D	05 Jun 2025 11:17		RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BM050198.D	05 Jun 2025 11:57	The compound # 85 failed in the Calibration.	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BM050199.D	05 Jun 2025 12:36		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BM050200.D	05 Jun 2025 13:16		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BM050201.D	05 Jun 2025 13:56	Compound #9 removed from 80PPM	RC/JU	Ok
10	SSTDICV040	ICVBM060525	BM050202.D	05 Jun 2025 14:36		RC/JU	Ok,M
11	PB168224TB	PB168224TB	BM050203.D	05 Jun 2025 16:35		RC/JU	Ok
12	SP6794	SP6794	BM050204.D	05 Jun 2025 17:15		RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM060625

Review By	Rahul	Review On	6/9/2025 11:33:37 AM		
Supervise By	Jagrut	Supervise On	6/9/2025 12:06:36 PM		
SubDirectory	BM060625	HP Acquire Method	BNA_M	HP Processing Method	bm060525

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6796
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BM050205.D	06 Jun 2025 08:50		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BM050206.D	06 Jun 2025 09:29		RC/JU	Ok,M
3	PB168269BL	PB168269BL	BM050207.D	06 Jun 2025 10:08		RC/JU	Ok
4	PB168269BS	PB168269BS	BM050208.D	06 Jun 2025 10:47		RC/JU	Ok,M
5	Q2177-03	B-187-SB01	BM050209.D	06 Jun 2025 11:27		RC/JU	Ok
6	Q2177-03MS	B-187-SB01MS	BM050210.D	06 Jun 2025 12:06		RC/JU	Ok,M
7	Q2177-03MSD	B-187-SB01MSD	BM050211.D	06 Jun 2025 12:46		RC/JU	Ok
8	Q2194-02	COMP-12	BM050212.D	06 Jun 2025 13:26		RC/JU	Ok
9	Q2194-02MS	COMP-12MS	BM050213.D	06 Jun 2025 14:06		RC/JU	Ok
10	Q2194-02MSD	COMP-12MSD	BM050214.D	06 Jun 2025 14:46		RC/JU	Ok
11	Q2194-04	COMP-13	BM050215.D	06 Jun 2025 15:26		RC/JU	Ok,M
12	Q2207-09	BU-703-COMP-01	BM050216.D	06 Jun 2025 16:06		RC/JU	Ok,M
13	Q2207-18	BU-703-COMP-02	BM050217.D	06 Jun 2025 16:45		RC/JU	Ok,M
14	Q2207-27	BU-703-COMP-03	BM050218.D	06 Jun 2025 17:25		RC/JU	Ok
15	Q2207-36	BU-703-COMP-04	BM050219.D	06 Jun 2025 18:05		RC/JU	Ok
16	Q2207-45	BU-703-COMP-05	BM050220.D	06 Jun 2025 18:45		RC/JU	Ok
17	Q2208-09	BU-703-COMP-06	BM050221.D	06 Jun 2025 19:24		RC/JU	Ok
18	DFTPP	DFTPP	BM050222.D	06 Jun 2025 20:43		RC/JU	Ok

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Instrument ID: BNA_M

Daily Analysis Runlog For Sequence/QCBatch ID # BM060625

Review By	Rahul	Review On	6/9/2025 11:33:37 AM		
Supervise By	Jagrut	Supervise On	6/9/2025 12:06:36 PM		
SubDirectory	BM060625	HP Acquire Method	BNA_M	HP Processing Method	bm060525

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12667,10ul/1000ul sample
ICV/I.BLK	SP6796
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	SSTDCCC040	SSTDCCC040	BM050223.D	06 Jun 2025 21:23		RC/JU	Ok,M
20	PB168314BL	PB168314BL	BM050224.D	06 Jun 2025 22:03		RC/JU	Ok
21	PB168314BS	PB168314BS	BM050225.D	06 Jun 2025 22:42		RC/JU	Ok,M
22	PB168271TB	PB168271TB	BM050226.D	06 Jun 2025 23:22		RC/JU	Ok
23	Q2208-27	BU-703-COMP-08	BM050227.D	07 Jun 2025 00:02		RC/JU	Ok
24	Q2208-36	BU-703-COMP-09	BM050228.D	07 Jun 2025 00:41		RC/JU	Ok
25	Q2198-02	B-202-SB02	BM050229.D	07 Jun 2025 01:21		RC/JU	Ok
26	Q2198-04	B-207-SB02	BM050230.D	07 Jun 2025 02:01		RC/JU	Ok
27	Q2206-04	TP-1	BM050231.D	07 Jun 2025 02:41		RC/JU	Ok
28	Q2177-05	B-187-SB02	BM050232.D	07 Jun 2025 03:20		RC/JU	Ok
29	Q2177-07	B-202-SB01	BM050233.D	07 Jun 2025 04:00		RC/JU	Ok
30	Q2208-18	BU-703-COMP-07	BM050234.D	07 Jun 2025 04:39		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168224

SOP ID : M1311-TCLP-16

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-1 / T-2

TCLP Filter ID : 115525

Start Prep Date : 06/02/2025 **Time :** 16:00

End Prep Date : 06/03/2025 **Time :** 09:15

Combination Ratio : 20

ZHE Cleaning Batch : 10 N/A

Initial Room Temperature: 22 °C

Final Room Temperature: 21 °C

TCLP Technician Signature : JP

Supervisor By : SJ

Standared Name	MLS USED	STD REF. # FROM LOG
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

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP112795
HCL-TCLP,1N	N/A	WP112797
HNO3-TCLP,1N	N/A	WP112799
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	N/A	W3166,W1938,W1939,
1 Liter Amber	N/A	90924-08
120ml Plastic bottle	N/A	2738
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after fiftration and before preservation. TUMBLER T-1 /T-2 checked,30 rpm. q2185-08 is used for MS-MSD.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
06/03/25 11:00	JP / TCLP Room	SJS. RS 1Ext
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168224

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB168224TB	LEB224	17	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2
Q2159-04	TP05-MHO-WC	01	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q2160-04	TP04-MHG-WC	02	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q2160-08	TP05-MHH-WC	03	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-1
Q2168-02	SAN-A1-A3	04	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
Q2168-06	SAN-B1-B3	05	100.02	2000	N/A	N/A	N/A	4.5	1.0	T-1
Q2168-10	SAN-C1-C2	06	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-1
Q2172-04	TP06-MHQ	07	100.01	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q2173-06	OR-400-CF-402B-COMP-23	08	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-1
Q2173-12	OR-400-CF-402B-COMP-24	09	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q2173-18	OR-400-CF-402B-COMP-25	10	100.04	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q2177-03	B-187-SB01	11	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-2
Q2177-05	B-187-SB02	12	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q2177-07	B-202-SB01	13	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q2178-02	RT2929	14	100.03	2000	N/A	N/A	N/A	10.0	1.5	T-2
Q2185-04	TP02-MHB-WC	15	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q2185-08	TP01-MHB-WC	16	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-2

Alliance TECHNICAL GROUP

TCLP Solid Determination

PB168224

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB168224TB	LEB224	N/A	N/A	N/A	N/A	N/A	N/A
Q2159-04	TP05-MHO-WC	N/A	N/A	N/A	N/A	100	N/A
Q2160-04	TP04-MHG-WC	N/A	N/A	N/A	N/A	100	N/A
Q2160-08	TP05-MHH-WC	N/A	N/A	N/A	N/A	100	N/A
Q2168-02	SAN-A1-A3	N/A	N/A	N/A	N/A	100	N/A
Q2168-06	SAN-B1-B3	N/A	N/A	N/A	N/A	100	N/A
Q2168-10	SAN-C1-C2	N/A	N/A	N/A	N/A	100	N/A
Q2172-04	TP06-MHQ	N/A	N/A	N/A	N/A	100	N/A
Q2173-06	OR-400-CF-402B-COMP-23	N/A	N/A	N/A	N/A	100	N/A
Q2173-12	OR-400-CF-402B-COMP-24	N/A	N/A	N/A	N/A	100	N/A
Q2173-18	OR-400-CF-402B-COMP-25	N/A	N/A	N/A	N/A	100	N/A
Q2177-03	B-187-SB01	N/A	N/A	N/A	N/A	100	N/A
Q2177-05	B-187-SB02	N/A	N/A	N/A	N/A	100	N/A
Q2177-07	B-202-SB01	N/A	N/A	N/A	N/A	100	N/A
Q2178-02	RT2929	N/A	N/A	N/A	N/A	100	N/A
Q2185-04	TP02-MHB-WC	N/A	N/A	N/A	N/A	100	N/A
Q2185-08	TP01-MHB-WC	N/A	N/A	N/A	N/A	100	N/A

Alliance TECHNICAL GROUP

TCLP Fluid Determination

PB168224

Hot Block ID : WC S-1 / WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB168224TB	LEB224	N/A	N/A	N/A	N/A	#1	4.93
Q2159-04	TP05-MHO-WC	5.02	96.5	5.6	2.0	#1	4.93
Q2160-04	TP04-MHG-WC	5.01	96.5	5.5	2.0	#1	4.93
Q2160-08	TP05-MHH-WC	5.02	96.5	5.8	2.0	#1	4.93
Q2168-02	SAN-A1-A3	5.01	96.5	6.2	2.5	#1	4.93
Q2168-06	SAN-B1-B3	5.02	96.5	6.0	2.0	#1	4.93
Q2168-10	SAN-C1-C2	5.03	96.5	6.0	2.0	#1	4.93
Q2172-04	TP06-MHQ	5.03	96.5	5.5	1.5	#1	4.93
Q2173-06	OR-400-CF-402B-COMP-23	5.02	96.5	9.0	3.5	#1	4.93
Q2173-12	OR-400-CF-402B-COMP-24	5.03	96.5	7.2	2.5	#1	4.93
Q2173-18	OR-400-CF-402B-COMP-25	5.02	96.5	8.4	3.0	#1	4.93
Q2177-03	B-187-SB01	5.03	96.5	8.2	3.0	#1	4.93
Q2177-05	B-187-SB02	5.02	96.5	7.2	2.5	#1	4.93
Q2177-07	B-202-SB01	5.01	96.5	8.2	3.0	#1	4.93
Q2178-02	RT2929	5.02	96.5	10.5	4.0	#1	4.93
Q2185-04	TP02-MHB-WC	5.02	96.5	8.0	3.0	#1	4.93
Q2185-08	TP01-MHB-WC	5.01	96.5	8.0	3.0	N/A	4.93

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tclp q2177 **WorkList ID :** 189871 **Department :** TCLP Extraction **Date :** 06-02-2025 12:11:06

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2159-04	TP05-MHO-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/29/2025	1311
Q2160-04	TP04-MHG-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/29/2025	1311
Q2160-08	TP05-MHH-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/29/2025	1311
Q2168-02	SAN-A1-A3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/29/2025	1311
Q2168-06	SAN-B1-B3	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/30/2025	1311
Q2168-10	SAN-C1-C2	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/30/2025	1311
Q2172-04	TP06-MHQ	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	05/30/2025	1311
Q2173-06	OR-400-CF-402B-COMP-23	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	05/30/2025	1311
Q2173-12	OR-400-CF-402B-COMP-24	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	05/30/2025	1311
Q2173-18	OR-400-CF-402B-COMP-25	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	05/30/2025	1311
Q2177-03	B-187-SB01	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	05/30/2025	1311
Q2177-05	B-187-SB02	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	05/31/2025	1311
Q2177-07	B-202-SB01	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	05/31/2025	1311
Q2178-02	RT2929	Solid	TCLP Extraction	Cool 4 deg C	PORT06	L41	05/31/2025	1311
Q2185-04	TP02-MHB-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L41	06/02/2025	1311
Q2185-08	TP01-MHB-WC	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	L31	06/02/2025	1311

Date/Time 06/02/25 15:00

Raw Sample Received by: JW WC

Raw Sample Relinquished by: JW SH

Date/Time 06/02/25 17:30

Raw Sample Received by: JW SH

Raw Sample Relinquished by: JW WC

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168269

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RJ

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 06/04/2025

Extraction Start Time : 08:30

Extraction End Date : 06/04/2025

Extraction End Time : 13:30

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	50/100 PPM	SP6794
Surrogate	1.0ML	100/150 PPM	SP6754
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	E3939
Baked Na2SO4	N/A	EP2620
10N NaoH	N/A	EP2609
H2SO4 1:1	N/A	EP2610
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210443. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

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
6/4/25	RS (Ext lab)	RC/SVOC
13:35	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168269

Analytical Method: M3510C,3580A-Extraction SVOC-20 **Concentration Date:** 06/04/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168224TB	PB168224TB	TCLP BNA	100	6	ritesh	Evelyn	1			SEP-1
PB168269BL	PB168269BL	TCLP BNA	1000	6	ritesh	Evelyn	1			2
PB168269BS	PB168269BS	TCLP BNA	1000	6	ritesh	Evelyn	1			3
Q2159-04	TP05-MHO-WC	TCLP BNA	100	6	ritesh	Evelyn	1	A		4
Q2160-04	TP04-MHG-WC	TCLP BNA	100	6	ritesh	Evelyn	1	A		5
Q2160-08	TP05-MHH-WC	TCLP BNA	100	6	ritesh	Evelyn	1	A		6
Q2172-04	TP06-MHQ	TCLP BNA	100	6	ritesh	Evelyn	1	A		7
Q2173-06	OR-400-CF-402B-COMP-23	TCLP BNA	100	6	ritesh	Evelyn	1	A		8
Q2173-12	OR-400-CF-402B-COMP-24	TCLP BNA	100	6	ritesh	Evelyn	1	A		9
Q2173-18	OR-400-CF-402B-COMP-25	TCLP BNA	100	6	ritesh	Evelyn	1	A		10
Q2177-03	B-187-SB01	TCLP BNA	100	6	ritesh	Evelyn	1	A		11
Q2177-03MS	B-187-SB01MS	TCLP BNA	100	6	ritesh	Evelyn	1	A		12
Q2177-03MSD	B-187-SB01MSD	TCLP BNA	100	6	ritesh	Evelyn	1	A		13
Q2177-05	B-187-SB02	TCLP BNA	100	6	ritesh	Evelyn	1	A		14
Q2177-07	B-202-SB01	TCLP BNA	100	6	ritesh	Evelyn	1	A		15
Q2185-04	TP02-MHB-WC	TCLP BNA	100	6	ritesh	Evelyn	1	A		16
Q2185-08	TP01-MHB-WC	TCLP BNA	100	6	ritesh	Evelyn	1	A		17

RS 6/4

* **Extracts relinquished on the same date as received.**

Alliance TECHNICAL GROUP

TCLP EXTRACTION LOGPAGE

PB168224

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB168224TB	LEB224	17	N/A	2000	N/A	N/A	N/A	4.93	1.5	T-2
Q2159-04	TP05-MHO-WC	01	100.02	2000	N/A	N/A	N/A	3.0	1.0	T-1
Q2160-04	TP04-MHG-WC	02	100.03	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q2160-08	TP05-MHH-WC	03	100.02	2000	N/A	N/A	N/A	3.5	1.0	T-1
Q2168-02	SAN-A1-A3	04	100.03	2000	N/A	N/A	N/A	4.5	1.5	T-1
Q2168-06	SAN-B1-B3	05	100.02	2000	N/A	N/A	N/A	4.5	1.0	T-1
Q2168-10	SAN-C1-C2	06	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-1
Q2172-04	TP06-MHQ	07	100.01	2000	N/A	N/A	N/A	3.0	1.5	T-1
Q2173-06	OR-400-CF-402B-COMP-23	08	100.02	2000	N/A	N/A	N/A	7.0	1.0	T-1
Q2173-12	OR-400-CF-402B-COMP-24	09	100.03	2000	N/A	N/A	N/A	5.8	1.5	T-1
Q2173-18	OR-400-CF-402B-COMP-25	10	100.04	2000	N/A	N/A	N/A	6.0	1.0	T-1
Q2177-03	B-187-SB01	11	100.02	2000	N/A	N/A	N/A	6.0	1.5	T-2
Q2177-05	B-187-SB02	12	100.03	2000	N/A	N/A	N/A	5.6	1.0	T-2
Q2177-07	B-202-SB01	13	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q2178-02	RT2929	14	100.03	2000	N/A	N/A	N/A	10.0	1.5	T-2
Q2185-04	TP02-MHB-WC	15	100.02	2000	N/A	N/A	N/A	5.8	1.5	T-2
Q2185-08	TP01-MHB-WC	16	100.03	2000	N/A	N/A	N/A	6.0	1.0	T-2

06/03/25
11:00

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

LAB CHRONICLE

OrderID:	Q2177	**OrderDate:**	6/2/2025 11:19:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2177-03	**B-187-SB01**	**TCLP**			**05/31/25**			**06/02/25**
			TCLP BNA	8270E		06/04/25	06/06/25	
Q2177-05	**B-187-SB02**	**TCLP**			**05/31/25**			**06/02/25**
			TCLP BNA	8270E		06/04/25	06/07/25	
Q2177-07	**B-202-SB01**	**TCLP**			**05/31/25**			**06/02/25**
			TCLP BNA	8270E		06/04/25	06/07/25	