284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Hit Summary Sheet
SW-846

SDG No.: Q1514

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID : ENV-105-SB01									
Q1514-01	ENV-105-SB01	SOIL	Phenanthrene		340.000		91.6	190	ug/Kg
Q1514-01	ENV-105-SB01	SOIL	Fluoranthene		300.000		89	190	ug/Kg
Q1514-01	ENV-105-SB01	SOIL	Pyrene		240.000		90.5	190	ug/Kg
Q1514-01	ENV-105-SB01	SOIL	Benzo(a)anthracene		150.000	J	88	190	ug/Kg
Q1514-01	ENV-105-SB01	SOIL	Chrysene		150.000	J	86.6	190	ug/Kg
Q1514-01	ENV-105-SB01	SOIL	Benzo(b)fluoranthene		140.000	J	88.4	190	ug/Kg
Q1514-01	ENV-105-SB01	SOIL	Benzo(a)pyrene		130.000	J	100	190	ug/Kg
			Total Svoc :		**1,450.00**				
Q1514-01	ENV-105-SB01	SOIL	Benzophenone	*	250.000	J	0	0	ug/Kg
Q1514-01	ENV-105-SB01	SOIL	Butane, 2-methoxy-2-methyl-	*	1,100.000	J	0	0	ug/Kg
Q1514-01	ENV-105-SB01	SOIL	Dibenzothiophene	*	74.800	J	0	0	ug/Kg
Q1514-01	ENV-105-SB01	SOIL	Dodecane, 2-methyl-6-propyl-	*	78.500	J	0	0	ug/Kg
Q1514-01	ENV-105-SB01	SOIL	Eicosane	*	130.000	J	0	0	ug/Kg
Q1514-01	ENV-105-SB01	SOIL	Tetracosane	*	100.000	J	0	0	ug/Kg
Q1514-01	ENV-105-SB01	SOIL	Heneicosane	*	290.000	J	0	0	ug/Kg
Q1514-01	ENV-105-SB01	SOIL	Heptadecane	*	110.000	J	0	0	ug/Kg
Q1514-01	ENV-105-SB01	SOIL	n-Hexadecanoic acid	*	320.000	J	0	0	ug/Kg
Q1514-01	ENV-105-SB01	SOIL	Pentacosane	*	180.000	J	0	0	ug/Kg
			Total Tics :		**2,633.30**				
			Total Concentration:		**4,083.30**				
Client ID : ENV-105-SB02									
Q1514-03	ENV-105-SB02	SOIL	Benzophenone	*	380.000	J	0	0	ug/Kg
Q1514-03	ENV-105-SB02	SOIL	Hexatriacontyl pentafluoropropior	*	97.000	J	0	0	ug/Kg
Q1514-03	ENV-105-SB02	SOIL	n-Hexadecanoic acid	*	180.000	J	0	0	ug/Kg
			Total Tics :		**657.00**				
			Total Concentration:		**657.00**				
Client ID : ENV-103-SB01									
Q1514-05	ENV-103-SB01	SOIL	Phenanthrene		100.000	J	94.2	190	ug/Kg
Q1514-05	ENV-103-SB01	SOIL	Fluoranthene		120.000	J	91.6	190	ug/Kg
Q1514-05	ENV-103-SB01	SOIL	Pyrene		110.000	J	93	190	ug/Kg
			Total Svoc :		**330.00**				
Q1514-05	ENV-103-SB01	SOIL	1,4-Benzenedicarboxylic acid, bis	*	1,900.000	J	0	0	ug/Kg
Q1514-05	ENV-103-SB01	SOIL	1-Heneicosanol	*	220.000	J	0	0	ug/Kg
Q1514-05	ENV-103-SB01	SOIL	Benzo[e]pyrene	*	92.300	J	0	0	ug/Kg
Q1514-05	ENV-103-SB01	SOIL	Benzophenone	*	260.000	J	0	0	ug/Kg
Q1514-05	ENV-103-SB01	SOIL	Butane, 2-methoxy-2-methyl-	*	1,300.000	J	0	0	ug/Kg
Q1514-05	ENV-103-SB01	SOIL	Heneicosane	*	82.200	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: Q1514

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Q1514-05	ENV-103-SB01	SOIL	Hexacosane	*	160.000	J	0	0	ug/Kg
Q1514-05	ENV-103-SB01	SOIL	n-Hexadecanoic acid	*	1,100.000	J	0	0	ug/Kg
Q1514-05	ENV-103-SB01	SOIL	Octacosane	*	120.000	J	0	0	ug/Kg
Q1514-05	ENV-103-SB01	SOIL	Octadecanoic acid	*	1,400.000	J	0	0	ug/Kg
			Total Tics :		**6,634.50**				
			Total Concentration:		**6,964.50**				
Client ID :	**ENV-105-GW01**								
Q1514-07	ENV-105-GW01	WATER	Caprolactam		33.200		2.1	12.5	ug/L
			Total Svoc :		**33.20**				
Q1514-07	ENV-105-GW01	WATER	1-Isobutoxy-2-ethylhexane	*	11.700	J	0	0	ug/L
Q1514-07	ENV-105-GW01	WATER	Adipic acid, butyl 4-heptyl ester	*	28.200	J	0	0	ug/L
Q1514-07	ENV-105-GW01	WATER	Benzophenone	*	2.600	J	0	0	ug/L
Q1514-07	ENV-105-GW01	WATER	Hexanoic acid, 2-ethyl-	*	3.500	J	0	0	ug/L
Q1514-07	ENV-105-GW01	WATER	n-Hexadecanoic acid	*	3.600	J	0	0	ug/L
			Total Tics :		**49.60**				
			Total Concentration:		**82.80**				
Client ID :	**ENV-103-GW01**								
Q1514-08	ENV-103-GW01	WATER	Benzophenone	*	4.200	J	0	0	ug/L
Q1514-08	ENV-103-GW01	WATER	Dimethyl trisulfide	*	3.000	J	0	0	ug/L
Q1514-08	ENV-103-GW01	WATER	Disulfide, dimethyl	*	4.200	J	0	0	ug/L
Q1514-08	ENV-103-GW01	WATER	n-Hexadecanoic acid	*	3.600	J	0	0	ug/L
Q1514-08	ENV-103-GW01	WATER	n-Tetracosanol-1	*	3.600	J	0	0	ug/L
			Total Tics :		**18.60**				
			Total Concentration:		**18.60**				
Client ID :	**FB03062025**								
Q1514-09	FB03062025	WATER	2-Pentanone, 4-hydroxy-4-methyl	*	8.200	A	0	0	ug/L
			Total Tics :		**8.20**				
			Total Concentration:		**8.20**				

SAMPLE DATA

Raw Data: **BF141918.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-105-SB01	SDG No.:	Q1514
Lab Sample ID:	Q1514-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.6
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141918.D	1	03/07/25 08:55	03/11/25 16:12	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	360	ug/Kg
108-95-2	Phenol	90.4	U	90.4	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	91.2	U	91.2	190	ug/Kg
95-57-8	2-Chlorophenol	91.0	U	91.0	190	ug/Kg
95-48-7	2-Methylphenol	87.8	U	87.8	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	99.1	U	99.1	190	ug/Kg
98-86-2	Acetophenone	94.7	U	94.7	190	ug/Kg
65794-96-9	3+4-Methylphenols	87.0	U	87.0	360	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	43.9	U	43.9	87.2	ug/Kg
67-72-1	Hexachloroethane	90.5	U	90.5	190	ug/Kg
98-95-3	Nitrobenzene	99.0	U	99.0	190	ug/Kg
78-59-1	Isophorone	92.2	U	92.2	190	ug/Kg
88-75-5	2-Nitrophenol	100	U	100	190	ug/Kg
105-67-9	2,4-Dimethylphenol	100	U	100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	93.5	U	93.5	190	ug/Kg
120-83-2	2,4-Dichlorophenol	82.3	U	82.3	190	ug/Kg
91-20-3	Naphthalene	90.0	U	90.0	190	ug/Kg
106-47-8	4-Chloroaniline	90.0	UQ	90.0	190	ug/Kg
87-68-3	Hexachlorobutadiene	90.8	U	90.8	190	ug/Kg
105-60-2	Caprolactam	94.6	U	94.6	360	ug/Kg
59-50-7	4-Chloro-3-methylphenol	84.5	U	84.5	190	ug/Kg
91-57-6	2-Methylnaphthalene	89.9	U	89.9	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170	U	170	360	ug/Kg
88-06-2	2,4,6-Trichlorophenol	77.8	U	77.8	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	80.7	U	80.7	190	ug/Kg
92-52-4	1,1-Biphenyl	95.3	U	95.3	190	ug/Kg
91-58-7	2-Chloronaphthalene	90.8	U	90.8	190	ug/Kg
88-74-4	2-Nitroaniline	100	U	100	190	ug/Kg
131-11-3	Dimethylphthalate	89.0	U	89.0	190	ug/Kg

Raw Data: **BF141918.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-105-SB01	SDG No.:	Q1514
Lab Sample ID:	Q1514-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.6
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141918.D	1	03/07/25 08:55	03/11/25 16:12	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	94.3	U	94.3	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	90.7	U	90.7	190	ug/Kg
99-09-2	3-Nitroaniline	97.2	UQ	97.2	190	ug/Kg
83-32-9	Acenaphthene	88.4	U	88.4	190	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	360	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	360	ug/Kg
132-64-9	Dibenzofuran	92.0	U	92.0	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	93.9	U	93.9	190	ug/Kg
84-66-2	Diethylphthalate	87.3	U	87.3	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	93.3	U	93.3	190	ug/Kg
86-73-7	Fluorene	93.2	U	93.2	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	360	ug/Kg
86-30-6	n-Nitrosodiphenylamine	88.9	U	88.9	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	86.0	U	86.0	190	ug/Kg
118-74-1	Hexachlorobenzene	92.6	U	92.6	190	ug/Kg
1912-24-9	Atrazine	99.6	U	99.6	190	ug/Kg
87-86-5	Pentachlorophenol	84.2	U	84.2	360	ug/Kg
85-01-8	Phenanthrene	340		91.6	190	ug/Kg
120-12-7	Anthracene	92.0	U	92.0	190	ug/Kg
86-74-8	Carbazole	87.5	U	87.5	190	ug/Kg
84-74-2	Di-n-butylphthalate	91.9	U	91.9	190	ug/Kg
206-44-0	Fluoranthene	300		89.0	190	ug/Kg
129-00-0	Pyrene	240		90.5	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	UQ	110	360	ug/Kg
56-55-3	Benzo(a)anthracene	150	J	88.0	190	ug/Kg
218-01-9	Chrysene	150	J	86.6	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	99.2	U	99.2	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	360	ug/Kg
205-99-2	Benzo(b)fluoranthene	140	J	88.4	190	ug/Kg

Raw Data: **BF141918.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-105-SB01	SDG No.:	Q1514
Lab Sample ID:	Q1514-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.6
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141918.D	1	03/07/25 08:55	03/11/25 16:12	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	90.0	U	90.0	190	ug/Kg
50-32-8	Benzo(a)pyrene	130	J	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	85.1	U	85.1	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	88.5	U	88.5	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	87.3	U	87.3	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	94.6	U	94.6	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	81.4	U	81.4	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	82.8		30 (18) - 130 (112)	55%	SPK: 150
13127-88-3	Phenol-d6	78.2		30 (15) - 130 (107)	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	55.9		30 (18) - 130 (107)	56%	SPK: 100
321-60-8	2-Fluorobiphenyl	58.6		30 (20) - 130 (109)	59%	SPK: 100
118-79-6	2,4,6-Tribromophenol	66.9		30 (10) - 130 (116)	45%	SPK: 150
1718-51-0	Terphenyl-d14	45.0		30 (10) - 130 (105)	45%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	151000	6.881			
1146-65-2	Naphthalene-d8	586000	8.157			
15067-26-2	Acenaphthene-d10	300000	9.916			
1517-22-2	Phenanthrene-d10	431000	11.398			
1719-03-5	Chrysene-d12	338000	14.039			
1520-96-3	Perylene-d12	250000	15.521			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	1100	J		2.15	ug/Kg
000119-61-9	Benzophenone	250	J		10.6	ug/Kg
000629-78-7	Heptadecane	110	J		10.8	ug/Kg
055045-08-4	Dodecane, 2-methyl-6-propyl-	78.5	J		11.3	ug/Kg
000132-65-0	Dibenzothiophene	74.8	J		11.3	ug/Kg
000646-31-1	Tetracosane	100	J		11.7	ug/Kg
000057-10-3	n-Hexadecanoic acid	320	J		11.9	ug/Kg

Raw Data: **BF141918.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-105-SB01	SDG No.:	Q1514
Lab Sample ID:	Q1514-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	91.6
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141918.D	1	03/07/25 08:55	03/11/25 16:12	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000112-95-8	Eicosane	130	J		12.1	ug/Kg
000629-94-7	Heneicosane	290	J		12.5	ug/Kg
000629-99-2	Pentacosane	180	J		13.2	ug/Kg

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:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-105-SB02	SDG No.:	Q1514
Lab Sample ID:	Q1514-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064065.D	1	03/07/25 08:55	03/07/25 19:01	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	220	U	220	410	ug/Kg
108-95-2	Phenol	100	U	100	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	100	U	100	210	ug/Kg
95-57-8	2-Chlorophenol	100	U	100	210	ug/Kg
95-48-7	2-Methylphenol	99.4	U	99.4	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	U	110	210	ug/Kg
98-86-2	Acetophenone	110	U	110	210	ug/Kg
65794-96-9	3+4-Methylphenols	98.4	U	98.4	410	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	49.7	U	49.7	98.7	ug/Kg
67-72-1	Hexachloroethane	100	U	100	210	ug/Kg
98-95-3	Nitrobenzene	110	U	110	210	ug/Kg
78-59-1	Isophorone	100	U	100	210	ug/Kg
88-75-5	2-Nitrophenol	120	U	120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	110	U	110	210	ug/Kg
120-83-2	2,4-Dichlorophenol	93.1	U	93.1	210	ug/Kg
91-20-3	Naphthalene	100	U	100	210	ug/Kg
106-47-8	4-Chloroaniline	100	UQ	100	210	ug/Kg
87-68-3	Hexachlorobutadiene	100	U	100	210	ug/Kg
105-60-2	Caprolactam	110	U	110	410	ug/Kg
59-50-7	4-Chloro-3-methylphenol	95.6	U	95.6	210	ug/Kg
91-57-6	2-Methylnaphthalene	100	U	100	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	190	U	190	410	ug/Kg
88-06-2	2,4,6-Trichlorophenol	88.1	U	88.1	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	91.3	U	91.3	210	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	210	ug/Kg
91-58-7	2-Chloronaphthalene	100	U	100	210	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	210	ug/Kg
131-11-3	Dimethylphthalate	100	U	100	210	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-105-SB02	SDG No.:	Q1514
Lab Sample ID:	Q1514-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064065.D	1	03/07/25 08:55	03/07/25 19:01	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	110	U	110	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	100	U	100	210	ug/Kg
99-09-2	3-Nitroaniline	110	UQ	110	210	ug/Kg
83-32-9	Acenaphthene	100	U	100	210	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	300	410	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	410	ug/Kg
132-64-9	Dibenzofuran	100	U	100	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	110	U	110	210	ug/Kg
84-66-2	Diethylphthalate	98.8	U	98.8	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	110	U	110	210	ug/Kg
86-73-7	Fluorene	110	U	110	210	ug/Kg
100-01-6	4-Nitroaniline	130	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	U	140	410	ug/Kg
86-30-6	n-Nitrosodiphenylamine	100	U	100	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	97.3	U	97.3	210	ug/Kg
118-74-1	Hexachlorobenzene	100	U	100	210	ug/Kg
1912-24-9	Atrazine	110	U	110	210	ug/Kg
87-86-5	Pentachlorophenol	95.3	U	95.3	410	ug/Kg
85-01-8	Phenanthrene	100	U	100	210	ug/Kg
120-12-7	Anthracene	100	U	100	210	ug/Kg
86-74-8	Carbazole	99.0	U	99.0	210	ug/Kg
84-74-2	Di-n-butylphthalate	100	U	100	210	ug/Kg
206-44-0	Fluoranthene	100	U	100	210	ug/Kg
129-00-0	Pyrene	100	U	100	210	ug/Kg
85-68-7	Butylbenzylphthalate	120	U	120	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	120	UQ	120	410	ug/Kg
56-55-3	Benzo(a)anthracene	99.5	U	99.5	210	ug/Kg
218-01-9	Chrysene	98.1	U	98.1	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	210	ug/Kg
117-84-0	Di-n-octyl phthalate	140	U	140	410	ug/Kg
205-99-2	Benzo(b)fluoranthene	100	U	100	210	ug/Kg

Raw Data: **BG064065.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-105-SB02	SDG No.:	Q1514
Lab Sample ID:	Q1514-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064065.D	1	03/07/25 08:55	03/07/25 19:01	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	100	U	100	210	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	96.3	U	96.3	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	100	U	100	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	98.8	U	98.8	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	210	ug/Kg
123-91-1	1,4-Dioxane	140	U	140	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	92.1	U	92.1	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	106		30 (18) - 130 (112)	71%	SPK: 150
13127-88-3	Phenol-d6	102		30 (15) - 130 (107)	68%	SPK: 150
4165-60-0	Nitrobenzene-d5	69.0		30 (18) - 130 (107)	69%	SPK: 100
321-60-8	2-Fluorobiphenyl	66.0		30 (20) - 130 (109)	66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	118		30 (10) - 130 (116)	79%	SPK: 150
1718-51-0	Terphenyl-d14	64.2		30 (10) - 130 (105)	64%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	32500	7.861			
1146-65-2	Naphthalene-d8	142000	10.652			
15067-26-2	Acenaphthene-d10	99700	14.483			
1517-22-2	Phenanthrene-d10	241000	17.227			
1719-03-5	Chrysene-d12	247000	21.457			
1520-96-3	Perylene-d12	266000	24.477			
TENTATIVE IDENTIFIED COMPOUNDS						
000119-61-9	Benzophenone	380	J		15.8	ug/Kg
000057-10-3	n-Hexadecanoic acid	180	J		18.1	ug/Kg
1000351-89-0	Hexatriacontyl pentafluoropropiona	97.0	J		21.2	ug/Kg

Raw Data: **BG064065.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-105-SB02	SDG No.:	Q1514
Lab Sample ID:	Q1514-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064065.D	1	03/07/25 08:55	03/07/25 19:01	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)

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: **BF141915.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-103-SB01	SDG No.:	Q1514
Lab Sample ID:	Q1514-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.1
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141915.D	1	03/07/25 08:55	03/11/25 14:26	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	200	U	200	370	ug/Kg
108-95-2	Phenol	92.9	U	92.9	190	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	93.8	U	93.8	190	ug/Kg
95-57-8	2-Chlorophenol	93.6	U	93.6	190	ug/Kg
95-48-7	2-Methylphenol	90.3	U	90.3	190	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	100	U	100	190	ug/Kg
98-86-2	Acetophenone	97.4	U	97.4	190	ug/Kg
65794-96-9	3+4-Methylphenols	89.4	U	89.4	370	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	45.2	U	45.2	89.7	ug/Kg
67-72-1	Hexachloroethane	93.0	U	93.0	190	ug/Kg
98-95-3	Nitrobenzene	100	U	100	190	ug/Kg
78-59-1	Isophorone	94.8	U	94.8	190	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	190	ug/Kg
105-67-9	2,4-Dimethylphenol	100	U	100	190	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	96.2	U	96.2	190	ug/Kg
120-83-2	2,4-Dichlorophenol	84.6	U	84.6	190	ug/Kg
91-20-3	Naphthalene	92.6	U	92.6	190	ug/Kg
106-47-8	4-Chloroaniline	92.6	UQ	92.6	190	ug/Kg
87-68-3	Hexachlorobutadiene	93.4	U	93.4	190	ug/Kg
105-60-2	Caprolactam	97.3	U	97.3	370	ug/Kg
59-50-7	4-Chloro-3-methylphenol	86.9	U	86.9	190	ug/Kg
91-57-6	2-Methylnaphthalene	92.5	U	92.5	190	ug/Kg
77-47-4	Hexachlorocyclopentadiene	170	U	170	370	ug/Kg
88-06-2	2,4,6-Trichlorophenol	80.0	U	80.0	190	ug/Kg
95-95-4	2,4,5-Trichlorophenol	82.9	U	82.9	190	ug/Kg
92-52-4	1,1-Biphenyl	98.0	U	98.0	190	ug/Kg
91-58-7	2-Chloronaphthalene	93.4	U	93.4	190	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	190	ug/Kg
131-11-3	Dimethylphthalate	91.6	U	91.6	190	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-103-SB01	SDG No.:	Q1514
Lab Sample ID:	Q1514-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.1
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141915.D	1	03/07/25 08:55	03/11/25 14:26	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	97.0	U	97.0	190	ug/Kg
606-20-2	2,6-Dinitrotoluene	93.3	U	93.3	190	ug/Kg
99-09-2	3-Nitroaniline	100	UQ	100	190	ug/Kg
83-32-9	Acenaphthene	90.9	U	90.9	190	ug/Kg
51-28-5	2,4-Dinitrophenol	270	U	270	370	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	370	ug/Kg
132-64-9	Dibenzofuran	94.6	U	94.6	190	ug/Kg
121-14-2	2,4-Dinitrotoluene	96.6	U	96.6	190	ug/Kg
84-66-2	Diethylphthalate	89.8	U	89.8	190	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	95.9	U	95.9	190	ug/Kg
86-73-7	Fluorene	95.8	U	95.8	190	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	190	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	130	U	130	370	ug/Kg
86-30-6	n-Nitrosodiphenylamine	91.5	U	91.5	190	ug/Kg
101-55-3	4-Bromophenyl-phenylether	88.4	U	88.4	190	ug/Kg
118-74-1	Hexachlorobenzene	95.3	U	95.3	190	ug/Kg
1912-24-9	Atrazine	100	U	100	190	ug/Kg
87-86-5	Pentachlorophenol	86.6	U	86.6	370	ug/Kg
85-01-8	Phenanthrene	100	J	94.2	190	ug/Kg
120-12-7	Anthracene	94.6	U	94.6	190	ug/Kg
86-74-8	Carbazole	90.0	U	90.0	190	ug/Kg
84-74-2	Di-n-butylphthalate	94.5	U	94.5	190	ug/Kg
206-44-0	Fluoranthene	120	J	91.6	190	ug/Kg
129-00-0	Pyrene	110	J	93.0	190	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	190	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	UQ	110	370	ug/Kg
56-55-3	Benzo(a)anthracene	90.5	U	90.5	190	ug/Kg
218-01-9	Chrysene	89.1	U	89.1	190	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	100	U	100	190	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	370	ug/Kg
205-99-2	Benzo(b)fluoranthene	90.9	U	90.9	190	ug/Kg

Raw Data: **BF141915.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-103-SB01	SDG No.:	Q1514
Lab Sample ID:	Q1514-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.1
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141915.D	1	03/07/25 08:55	03/11/25 14:26	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	92.6	U	92.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	87.5	U	87.5	190	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	91.0	U	91.0	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	89.8	U	89.8	190	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	97.3	U	97.3	190	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	190	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	83.7	U	83.7	190	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	85.2		30 (18) - 130 (112)	57%	SPK: 150
13127-88-3	Phenol-d6	83.6		30 (15) - 130 (107)	56%	SPK: 150
4165-60-0	Nitrobenzene-d5	60.1		30 (18) - 130 (107)	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	59.9		30 (20) - 130 (109)	60%	SPK: 100
118-79-6	2,4,6-Tribromophenol	86.2		30 (10) - 130 (116)	57%	SPK: 150
1718-51-0	Terphenyl-d14	55.7		30 (10) - 130 (105)	56%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	153000	6.881			
1146-65-2	Naphthalene-d8	610000	8.157			
15067-26-2	Acenaphthene-d10	347000	9.91			
1517-22-2	Phenanthrene-d10	612000	11.398			
1719-03-5	Chrysene-d12	453000	14.033			
1520-96-3	Perylene-d12	421000	15.504			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	1300	J		2.16	ug/Kg
000119-61-9	Benzophenone	260	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	1100	J		11.9	ug/Kg
006422-86-2	1,4-Benzenedicarboxylic acid, bis(	1900	J		12.3	ug/Kg
000057-11-4	Octadecanoic acid	1400	J		12.7	ug/Kg
000630-02-4	Octacosane	120	J		13.7	ug/Kg
015594-90-8	1-Heneicosanol	220	J		13.9	ug/Kg

Raw Data: **BF141915.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-103-SB01	SDG No.:	Q1514
Lab Sample ID:	Q1514-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.1
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BF141915.D	1	03/07/25 08:55	03/11/25 14:26	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000630-01-3	Hexacosane	160	J		14.8	ug/Kg
000192-97-2	Benzo[e]pyrene	92.3	J		15.1	ug/Kg
000629-94-7	Heneicosane	82.2	J		15.2	ug/Kg

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:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-105-GW01	SDG No.:	Q1514
Lab Sample ID:	Q1514-07	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	800 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064063.D	1	03/07/25 08:24	03/07/25 17:40	PB167027

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	5.00	U	5.00	12.5	ug/L
108-95-2	Phenol	1.20	U	1.20	6.30	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.50	U	1.50	6.30	ug/L
95-57-8	2-Chlorophenol	0.89	U	0.89	6.30	ug/L
95-48-7	2-Methylphenol	1.40	U	1.40	6.30	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.70	U	1.70	6.30	ug/L
98-86-2	Acetophenone	1.40	U	1.40	6.30	ug/L
65794-96-9	3+4-Methylphenols	1.40	U	1.40	12.5	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.90	U	1.90	3.10	ug/L
67-72-1	Hexachloroethane	1.30	U	1.30	6.30	ug/L
98-95-3	Nitrobenzene	1.60	U	1.60	6.30	ug/L
78-59-1	Isophorone	1.40	U	1.40	6.30	ug/L
88-75-5	2-Nitrophenol	2.50	U	2.50	6.30	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	6.30	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.30	U	1.30	6.30	ug/L
120-83-2	2,4-Dichlorophenol	1.10	U	1.10	6.30	ug/L
91-20-3	Naphthalene	1.30	U	1.30	6.30	ug/L
106-47-8	4-Chloroaniline	1.60	UQ	1.60	6.30	ug/L
87-68-3	Hexachlorobutadiene	1.60	U	1.60	6.30	ug/L
105-60-2	Caprolactam	33.2		2.10	12.5	ug/L
59-50-7	4-Chloro-3-methylphenol	1.10	U	1.10	6.30	ug/L
91-57-6	2-Methylnaphthalene	1.40	U	1.40	6.30	ug/L
77-47-4	Hexachlorocyclopentadiene	6.30	U	6.30	12.5	ug/L
88-06-2	2,4,6-Trichlorophenol	1.10	U	1.10	6.30	ug/L
95-95-4	2,4,5-Trichlorophenol	1.30	U	1.30	6.30	ug/L
92-52-4	1,1-Biphenyl	1.10	U	1.10	6.30	ug/L
91-58-7	2-Chloronaphthalene	1.20	U	1.20	6.30	ug/L
88-74-4	2-Nitroaniline	1.80	U	1.80	6.30	ug/L
131-11-3	Dimethylphthalate	1.20	U	1.20	6.30	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-105-GW01	SDG No.:	Q1514
Lab Sample ID:	Q1514-07	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	800 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064063.D	1	03/07/25 08:24	03/07/25 17:40	PB167027

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.30	U	1.30	6.30	ug/L
606-20-2	2,6-Dinitrotoluene	1.60	U	1.60	6.30	ug/L
99-09-2	3-Nitroaniline	1.70	UQ	1.70	6.30	ug/L
83-32-9	Acenaphthene	1.00	U	1.00	6.30	ug/L
51-28-5	2,4-Dinitrophenol	8.00	U	8.00	12.5	ug/L
100-02-7	4-Nitrophenol	2.50	U	2.50	12.5	ug/L
132-64-9	Dibenzofuran	1.20	U	1.20	6.30	ug/L
121-14-2	2,4-Dinitrotoluene	1.90	U	1.90	6.30	ug/L
84-66-2	Diethylphthalate	1.30	U	1.30	6.30	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.20	U	1.20	6.30	ug/L
86-73-7	Fluorene	1.20	U	1.20	6.30	ug/L
100-01-6	4-Nitroaniline	2.60	U	2.60	6.30	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.80	U	3.80	12.5	ug/L
86-30-6	n-Nitrosodiphenylamine	1.10	U	1.10	6.30	ug/L
101-55-3	4-Bromophenyl-phenylether	1.20	U	1.20	6.30	ug/L
118-74-1	Hexachlorobenzene	1.40	U	1.40	6.30	ug/L
1912-24-9	Atrazine	1.60	UQ	1.60	6.30	ug/L
87-86-5	Pentachlorophenol	2.30	U	2.30	12.5	ug/L
85-01-8	Phenanthrene	1.10	U	1.10	6.30	ug/L
120-12-7	Anthracene	1.30	U	1.30	6.30	ug/L
86-74-8	Carbazole	1.40	U	1.40	6.30	ug/L
84-74-2	Di-n-butylphthalate	1.80	U	1.80	6.30	ug/L
206-44-0	Fluoranthene	1.60	U	1.60	6.30	ug/L
129-00-0	Pyrene	1.30	U	1.30	6.30	ug/L
85-68-7	Butylbenzylphthalate	2.60	U	2.60	6.30	ug/L
91-94-1	3,3-Dichlorobenzidine	1.60	UQ	1.60	12.5	ug/L
56-55-3	Benzo(a)anthracene	1.20	U	1.20	6.30	ug/L
218-01-9	Chrysene	1.10	U	1.10	6.30	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	2.40	U	2.40	6.30	ug/L
117-84-0	Di-n-octyl phthalate	3.10	U	3.10	12.5	ug/L
205-99-2	Benzo(b)fluoranthene	1.40	U	1.40	6.30	ug/L

Raw Data: **BG064063.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-105-GW01	SDG No.:	Q1514
Lab Sample ID:	Q1514-07	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	800 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064063.D	1	03/07/25 08:24	03/07/25 17:40	PB167027

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.50	U	1.50	6.30	ug/L
50-32-8	Benzo(a)pyrene	2.10	U	2.10	6.30	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.30	U	1.30	6.30	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.40	U	1.40	6.30	ug/L
191-24-2	Benzo(g,h,i)perylene	1.50	U	1.50	6.30	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.40	U	1.40	6.30	ug/L
123-91-1	1,4-Dioxane	1.60	U	1.60	6.30	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.99	U	0.99	6.30	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	74.4		15 (10) - 110 (139)	50%	SPK: 150
13127-88-3	Phenol-d6	49.1		15 (10) - 110 (134)	33%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.9		30 (49) - 130 (133)	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	83.9		30 (52) - 130 (132)	84%	SPK: 100
118-79-6	2,4,6-Tribromophenol	142		15 (44) - 110 (137)	95%	SPK: 150
1718-51-0	Terphenyl-d14	84.8		30 (48) - 130 (125)	85%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	37700	7.862			
1146-65-2	Naphthalene-d8	164000	10.653			
15067-26-2	Acenaphthene-d10	112000	14.484			
1517-22-2	Phenanthrene-d10	253000	17.227			
1719-03-5	Chrysene-d12	258000	21.458			
1520-96-3	Perylene-d12	269000	24.478			
TENTATIVE IDENTIFIED COMPOUNDS						
1000139-90-3	1-Isobutoxy-2-ethylhexane	11.7	J		7.93	ug/L
000149-57-5	Hexanoic acid, 2-ethyl-	3.50	J		9.15	ug/L
000119-61-9	Benzophenone	2.60	J		15.8	ug/L
000057-10-3	n-Hexadecanoic acid	3.60	J		18.1	ug/L
1000349-73-7	Adipic acid, butyl 4-heptyl ester	28.2	J		19.5	ug/L

Raw Data: **BG064063.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-105-GW01	SDG No.:	Q1514
Lab Sample ID:	Q1514-07	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	800 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064063.D	1	03/07/25 08:24	03/07/25 17:40	PB167027

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:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-103-GW01	SDG No.:	Q1514
Lab Sample ID:	Q1514-08	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	850 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064068.D	1	03/07/25 08:24	03/07/25 21:03	PB167027

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.70	U	4.70	11.8	ug/L
108-95-2	Phenol	1.10	U	1.10	5.90	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.40	U	1.40	5.90	ug/L
95-57-8	2-Chlorophenol	0.84	U	0.84	5.90	ug/L
95-48-7	2-Methylphenol	1.30	U	1.30	5.90	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.60	U	1.60	5.90	ug/L
98-86-2	Acetophenone	1.30	U	1.30	5.90	ug/L
65794-96-9	3+4-Methylphenols	1.40	U	1.40	11.8	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.70	U	1.70	2.90	ug/L
67-72-1	Hexachloroethane	1.20	U	1.20	5.90	ug/L
98-95-3	Nitrobenzene	1.50	U	1.50	5.90	ug/L
78-59-1	Isophorone	1.30	U	1.30	5.90	ug/L
88-75-5	2-Nitrophenol	2.30	U	2.30	5.90	ug/L
105-67-9	2,4-Dimethylphenol	1.80	U	1.80	5.90	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.20	U	1.20	5.90	ug/L
120-83-2	2,4-Dichlorophenol	1.00	U	1.00	5.90	ug/L
91-20-3	Naphthalene	1.20	U	1.20	5.90	ug/L
106-47-8	4-Chloroaniline	1.50	UQ	1.50	5.90	ug/L
87-68-3	Hexachlorobutadiene	1.50	U	1.50	5.90	ug/L
105-60-2	Caprolactam	1.90	U	1.90	11.8	ug/L
59-50-7	4-Chloro-3-methylphenol	0.99	U	0.99	5.90	ug/L
91-57-6	2-Methylnaphthalene	1.30	U	1.30	5.90	ug/L
77-47-4	Hexachlorocyclopentadiene	5.90	U	5.90	11.8	ug/L
88-06-2	2,4,6-Trichlorophenol	1.00	U	1.00	5.90	ug/L
95-95-4	2,4,5-Trichlorophenol	1.20	U	1.20	5.90	ug/L
92-52-4	1,1-Biphenyl	1.10	U	1.10	5.90	ug/L
91-58-7	2-Chloronaphthalene	1.10	U	1.10	5.90	ug/L
88-74-4	2-Nitroaniline	1.70	U	1.70	5.90	ug/L
131-11-3	Dimethylphthalate	1.10	U	1.10	5.90	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-103-GW01	SDG No.:	Q1514
Lab Sample ID:	Q1514-08	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	850 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064068.D	1	03/07/25 08:24	03/07/25 21:03	PB167027

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.20	U	1.20	5.90	ug/L
606-20-2	2,6-Dinitrotoluene	1.50	U	1.50	5.90	ug/L
99-09-2	3-Nitroaniline	1.60	UQ	1.60	5.90	ug/L
83-32-9	Acenaphthene	0.95	U	0.95	5.90	ug/L
51-28-5	2,4-Dinitrophenol	7.60	U	7.60	11.8	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	11.8	ug/L
132-64-9	Dibenzofuran	1.10	U	1.10	5.90	ug/L
121-14-2	2,4-Dinitrotoluene	1.80	U	1.80	5.90	ug/L
84-66-2	Diethylphthalate	1.20	U	1.20	5.90	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.20	U	1.20	5.90	ug/L
86-73-7	Fluorene	1.10	U	1.10	5.90	ug/L
100-01-6	4-Nitroaniline	2.40	U	2.40	5.90	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.60	U	3.60	11.8	ug/L
86-30-6	n-Nitrosodiphenylamine	1.00	U	1.00	5.90	ug/L
101-55-3	4-Bromophenyl-phenylether	1.10	U	1.10	5.90	ug/L
118-74-1	Hexachlorobenzene	1.30	U	1.30	5.90	ug/L
1912-24-9	Atrazine	1.50	UQ	1.50	5.90	ug/L
87-86-5	Pentachlorophenol	2.20	U	2.20	11.8	ug/L
85-01-8	Phenanthrene	1.00	U	1.00	5.90	ug/L
120-12-7	Anthracene	1.30	U	1.30	5.90	ug/L
86-74-8	Carbazole	1.40	U	1.40	5.90	ug/L
84-74-2	Di-n-butylphthalate	1.70	U	1.70	5.90	ug/L
206-44-0	Fluoranthene	1.50	U	1.50	5.90	ug/L
129-00-0	Pyrene	1.20	U	1.20	5.90	ug/L
85-68-7	Butylbenzylphthalate	2.50	U	2.50	5.90	ug/L
91-94-1	3,3-Dichlorobenzidine	1.50	UQ	1.50	11.8	ug/L
56-55-3	Benzo(a)anthracene	1.10	U	1.10	5.90	ug/L
218-01-9	Chrysene	1.00	U	1.00	5.90	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	2.20	U	2.20	5.90	ug/L
117-84-0	Di-n-octyl phthalate	2.90	U	2.90	11.8	ug/L
205-99-2	Benzo(b)fluoranthene	1.30	U	1.30	5.90	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-103-GW01	SDG No.:	Q1514
Lab Sample ID:	Q1514-08	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	850 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064068.D	1	03/07/25 08:24	03/07/25 21:03	PB167027

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.40	U	1.40	5.90	ug/L
50-32-8	Benzo(a)pyrene	2.00	U	2.00	5.90	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.20	U	1.20	5.90	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.40	U	1.40	5.90	ug/L
191-24-2	Benzo(g,h,i)perylene	1.40	U	1.40	5.90	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.30	U	1.30	5.90	ug/L
123-91-1	1,4-Dioxane	1.50	U	1.50	5.90	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.93	U	0.93	5.90	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	34.1		15 (10) - 110 (139)	23%	SPK: 150
13127-88-3	Phenol-d6	23.9		15 (10) - 110 (134)	16%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.0		30 (49) - 130 (133)	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	80.3		30 (52) - 130 (132)	80%	SPK: 100
118-79-6	2,4,6-Tribromophenol	84.2		15 (44) - 110 (137)	56%	SPK: 150
1718-51-0	Terphenyl-d14	81.2		30 (48) - 130 (125)	81%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	34700	7.864			
1146-65-2	Naphthalene-d8	161000	10.649			
15067-26-2	Acenaphthene-d10	115000	14.486			
1517-22-2	Phenanthrene-d10	255000	17.23			
1719-03-5	Chrysene-d12	250000	21.46			
1520-96-3	Perylene-d12	270000	24.474			
TENTATIVE IDENTIFIED COMPOUNDS						
000624-92-0	Disulfide, dimethyl	4.20	J		3.81	ug/L
003658-80-8	Dimethyl trisulfide	3.00	J		7.20	ug/L
000119-61-9	Benzophenone	4.20	J		15.8	ug/L
000057-10-3	n-Hexadecanoic acid	3.60	J		18.1	ug/L
000506-51-4	n-Tetracosanol-1	3.60	J		21.1	ug/L

Raw Data: **BG064068.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-103-GW01	SDG No.:	Q1514
Lab Sample ID:	Q1514-08	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	850 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064068.D	1	03/07/25 08:24	03/07/25 21:03	PB167027

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: **BG064064.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	FB03062025	SDG No.:	Q1514
Lab Sample ID:	Q1514-09	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	380 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064064.D	1	03/07/25 08:24	03/07/25 18:21	PB167027

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	5.30	U	5.30	13.2	ug/L
108-95-2	Phenol	1.20	U	1.20	6.60	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.60	U	1.60	6.60	ug/L
95-57-8	2-Chlorophenol	0.93	U	0.93	6.60	ug/L
95-48-7	2-Methylphenol	1.50	U	1.50	6.60	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.80	U	1.80	6.60	ug/L
98-86-2	Acetophenone	1.40	U	1.40	6.60	ug/L
65794-96-9	3+4-Methylphenols	1.50	U	1.50	13.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.90	U	1.90	3.30	ug/L
67-72-1	Hexachloroethane	1.30	U	1.30	6.60	ug/L
98-95-3	Nitrobenzene	1.70	U	1.70	6.60	ug/L
78-59-1	Isophorone	1.50	U	1.50	6.60	ug/L
88-75-5	2-Nitrophenol	2.60	U	2.60	6.60	ug/L
105-67-9	2,4-Dimethylphenol	2.00	U	2.00	6.60	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.30	U	1.30	6.60	ug/L
120-83-2	2,4-Dichlorophenol	1.20	U	1.20	6.60	ug/L
91-20-3	Naphthalene	1.30	U	1.30	6.60	ug/L
106-47-8	4-Chloroaniline	1.70	UQ	1.70	6.60	ug/L
87-68-3	Hexachlorobutadiene	1.70	U	1.70	6.60	ug/L
105-60-2	Caprolactam	2.20	U	2.20	13.2	ug/L
59-50-7	4-Chloro-3-methylphenol	1.10	U	1.10	6.60	ug/L
91-57-6	2-Methylnaphthalene	1.50	U	1.50	6.60	ug/L
77-47-4	Hexachlorocyclopentadiene	6.60	U	6.60	13.2	ug/L
88-06-2	2,4,6-Trichlorophenol	1.20	U	1.20	6.60	ug/L
95-95-4	2,4,5-Trichlorophenol	1.30	U	1.30	6.60	ug/L
92-52-4	1,1-Biphenyl	1.20	U	1.20	6.60	ug/L
91-58-7	2-Chloronaphthalene	1.30	U	1.30	6.60	ug/L
88-74-4	2-Nitroaniline	1.90	U	1.90	6.60	ug/L
131-11-3	Dimethylphthalate	1.20	U	1.20	6.60	ug/L

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	FB03062025	SDG No.:	Q1514
Lab Sample ID:	Q1514-09	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	380 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064064.D	1	03/07/25 08:24	03/07/25 18:21	PB167027

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.40	U	1.40	6.60	ug/L
606-20-2	2,6-Dinitrotoluene	1.60	U	1.60	6.60	ug/L
99-09-2	3-Nitroaniline	1.80	UQ	1.80	6.60	ug/L
83-32-9	Acenaphthene	1.10	U	1.10	6.60	ug/L
51-28-5	2,4-Dinitrophenol	8.40	U	8.40	13.2	ug/L
100-02-7	4-Nitrophenol	2.60	U	2.60	13.2	ug/L
132-64-9	Dibenzofuran	1.20	U	1.20	6.60	ug/L
121-14-2	2,4-Dinitrotoluene	2.00	U	2.00	6.60	ug/L
84-66-2	Diethylphthalate	1.40	U	1.40	6.60	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.30	U	1.30	6.60	ug/L
86-73-7	Fluorene	1.30	U	1.30	6.60	ug/L
100-01-6	4-Nitroaniline	2.70	U	2.70	6.60	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	4.00	U	4.00	13.2	ug/L
86-30-6	n-Nitrosodiphenylamine	1.20	U	1.20	6.60	ug/L
101-55-3	4-Bromophenyl-phenylether	1.30	U	1.30	6.60	ug/L
118-74-1	Hexachlorobenzene	1.50	U	1.50	6.60	ug/L
1912-24-9	Atrazine	1.70	UQ	1.70	6.60	ug/L
87-86-5	Pentachlorophenol	2.40	U	2.40	13.2	ug/L
85-01-8	Phenanthrene	1.20	U	1.20	6.60	ug/L
120-12-7	Anthracene	1.40	U	1.40	6.60	ug/L
86-74-8	Carbazole	1.50	U	1.50	6.60	ug/L
84-74-2	Di-n-butylphthalate	1.90	U	1.90	6.60	ug/L
206-44-0	Fluoranthene	1.70	U	1.70	6.60	ug/L
129-00-0	Pyrene	1.40	U	1.40	6.60	ug/L
85-68-7	Butylbenzylphthalate	2.80	U	2.80	6.60	ug/L
91-94-1	3,3-Dichlorobenzidine	1.70	UQ	1.70	13.2	ug/L
56-55-3	Benzo(a)anthracene	1.20	U	1.20	6.60	ug/L
218-01-9	Chrysene	1.10	U	1.10	6.60	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	2.50	U	2.50	6.60	ug/L
117-84-0	Di-n-octyl phthalate	3.30	U	3.30	13.2	ug/L
205-99-2	Benzo(b)fluoranthene	1.50	U	1.50	6.60	ug/L

Raw Data: **BG064064.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	FB03062025	SDG No.:	Q1514
Lab Sample ID:	Q1514-09	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	380 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064064.D	1	03/07/25 08:24	03/07/25 18:21	PB167027

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.60	U	1.60	6.60	ug/L
50-32-8	Benzo(a)pyrene	2.20	U	2.20	6.60	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.30	U	1.30	6.60	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.50	U	1.50	6.60	ug/L
191-24-2	Benzo(g,h,i)perylene	1.60	U	1.60	6.60	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.40	U	1.40	6.60	ug/L
123-91-1	1,4-Dioxane	1.60	U	1.60	6.60	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	1.00	U	1.00	6.60	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	38.5		15 (10) - 110 (139)	51%	SPK: 75
13127-88-3	Phenol-d6	27.0		15 (10) - 110 (134)	36%	SPK: 75
4165-60-0	Nitrobenzene-d5	39.6		30 (49) - 130 (133)	79%	SPK: 50
321-60-8	2-Fluorobiphenyl	36.1		30 (52) - 130 (132)	72%	SPK: 50
118-79-6	2,4,6-Tribromophenol	63.0		15 (44) - 110 (137)	84%	SPK: 75
1718-51-0	Terphenyl-d14	39.8		30 (48) - 130 (125)	80%	SPK: 50
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	32900	7.864			
1146-65-2	Naphthalene-d8	142000	10.649			
15067-26-2	Acenaphthene-d10	101000	14.486			
1517-22-2	Phenanthrene-d10	241000	17.224			
1719-03-5	Chrysene-d12	268000	21.46			
1520-96-3	Perylene-d12	282000	24.474			
TENTATIVE IDENTIFIED COMPOUNDS						
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	8.20	A		4.99	ug/L

Raw Data: **BG064064.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/06/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	FB03062025	SDG No.:	Q1514
Lab Sample ID:	Q1514-09	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	380 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064064.D	1	03/07/25 08:24	03/07/25 18:21	PB167027

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,
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Surrogate Summary

SW-846

SDG No.: Q1514

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167027BL	PB167027BL	2-Fluorophenol	150	142	95		15 (10)	110 (139)
		Phenol-d6	150	136	90		15 (10)	110 (134)
		Nitrobenzene-d5	100	95.9	96		30 (49)	130 (133)
		2-Fluorobiphenyl	100	88.6	89		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	145	97		15 (44)	110 (137)
		Terphenyl-d14	100	92.7	93		30 (48)	130 (125)
PB167027BS	PB167027BS	2-Fluorophenol	150	140	93		15 (10)	110 (139)
		Phenol-d6	150	137	91		15 (10)	110 (134)
		Nitrobenzene-d5	100	94.3	94		30 (49)	130 (133)
		2-Fluorobiphenyl	100	86.1	86		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	148	99		15 (44)	110 (137)
		Terphenyl-d14	100	93.5	93		30 (48)	130 (125)
PB167027BSD	PB167027BSD	2-Fluorophenol	150	129	86		15 (10)	110 (139)
		Phenol-d6	150	126	84		15 (10)	110 (134)
		Nitrobenzene-d5	100	87.2	87		30 (49)	130 (133)
		2-Fluorobiphenyl	100	77.7	78		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	134	89		15 (44)	110 (137)
		Terphenyl-d14	100	86.3	86		30 (48)	130 (125)
Q1514-07	ENV-105-GW01	2-Fluorophenol	150	74.4	50		15 (10)	110 (139)
		Phenol-d6	150	49.1	33		15 (10)	110 (134)
		Nitrobenzene-d5	100	91.9	92		30 (49)	130 (133)
		2-Fluorobiphenyl	100	83.9	84		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	142	95		15 (44)	110 (137)
		Terphenyl-d14	100	84.8	85		30 (48)	130 (125)
Q1514-08	ENV-103-GW01	2-Fluorophenol	150	34.1	23		15 (10)	110 (139)
		Phenol-d6	150	23.9	16		15 (10)	110 (134)
		Nitrobenzene-d5	100	90.0	90		30 (49)	130 (133)
		2-Fluorobiphenyl	100	80.3	80		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	84.2	56		15 (44)	110 (137)
		Terphenyl-d14	100	81.2	81		30 (48)	130 (125)
Q1514-09	FB03062025	2-Fluorophenol	75	38.5	51		15 (10)	110 (139)
		Phenol-d6	75	27.0	36		15 (10)	110 (134)
		Nitrobenzene-d5	50	39.6	79		30 (49)	130 (133)
		2-Fluorobiphenyl	50	36.1	72		30 (52)	130 (132)
		2,4,6-Tribromophenol	75	63.0	84		15 (44)	110 (137)
		Terphenyl-d14	50	39.8	80		30 (48)	130 (125)

( ) = LABORATORY INHOUSE LIMIT

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Surrogate Summary

SW-846

SDG No.: Q1514

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167031BL	PB167031BL	2-Fluorophenol	150	140	93		30 (18)	130 (112)
		Phenol-d6	150	134	89		30 (15)	130 (107)
		Nitrobenzene-d5	100	98.5	99		30 (18)	130 (107)
		2-Fluorobiphenyl	100	94.1	94		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	151	100		30 (10)	130 (116)
		Terphenyl-d14	100	100	100		30 (10)	130 (105)
PB167031BS	PB167031BS	2-Fluorophenol	150	132	88		30 (18)	130 (112)
		Phenol-d6	150	128	85		30 (15)	130 (107)
		Nitrobenzene-d5	100	87.2	87		30 (18)	130 (107)
		2-Fluorobiphenyl	100	83.6	84		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	140	94		30 (10)	130 (116)
		Terphenyl-d14	100	88.3	88		30 (10)	130 (105)
Q1514-01	ENV-105-SB01	2-Fluorophenol	150	82.8	55		30 (18)	130 (112)
		Phenol-d6	150	78.2	52		30 (15)	130 (107)
		Nitrobenzene-d5	100	55.9	56		30 (18)	130 (107)
		2-Fluorobiphenyl	100	58.6	59		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	66.9	45		30 (10)	130 (116)
		Terphenyl-d14	100	45.0	45		30 (10)	130 (105)
Q1514-03	ENV-105-SB02	2-Fluorophenol	150	106	71		30 (18)	130 (112)
		Phenol-d6	150	102	68		30 (15)	130 (107)
		Nitrobenzene-d5	100	69.0	69		30 (18)	130 (107)
		2-Fluorobiphenyl	100	66.0	66		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	118	79		30 (10)	130 (116)
		Terphenyl-d14	100	64.2	64		30 (10)	130 (105)
Q1514-03MS	ENV-105-SB02MS	2-Fluorophenol	150	96.0	64		30 (18)	130 (112)
		Phenol-d6	150	94.7	63		30 (15)	130 (107)
		Nitrobenzene-d5	100	61.1	61		30 (18)	130 (107)
		2-Fluorobiphenyl	100	56.8	57		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	99.5	66		30 (10)	130 (116)
		Terphenyl-d14	100	55.2	55		30 (10)	130 (105)
Q1514-03MSD	ENV-105-SB02MSD	2-Fluorophenol	150	91.3	61		30 (18)	130 (112)
		Phenol-d6	150	90.9	61		30 (15)	130 (107)
		Nitrobenzene-d5	100	62.5	63		30 (18)	130 (107)
		2-Fluorobiphenyl	100	56.4	56		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	102	68		30 (10)	130 (116)
		Terphenyl-d14	100	55.9	56		30 (10)	130 (105)
Q1514-05	ENV-103-SB01	2-Fluorophenol	150	85.2	57		30 (18)	130 (112)
		Phenol-d6	150	83.6	56		30 (15)	130 (107)
		Nitrobenzene-d5	100	60.1	60		30 (18)	130 (107)
		2-Fluorobiphenyl	100	59.9	60		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	86.2	57		30 (10)	130 (116)
		Terphenyl-d14	100	55.7	56		30 (10)	130 (105)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1514

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: Q1514-03MS		**Client Sample ID: ENV-105-SB02MS**						**DataFile: BG064066.D**			
Benzaldehyde	2100	0	830	ug/Kg	40				20 (10)	160 (86)	
Phenol	2100	0	2000	ug/Kg	95				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	2100	0	1600	ug/Kg	76				70 (54)	130 (125)	
2-Chlorophenol	2100	0	1800	ug/Kg	86				70 (79)	130 (107)	
2-Methylphenol	2100	0	2000	ug/Kg	95				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	2100	0	1800	ug/Kg	86				70 (65)	130 (110)	
Acetophenone	2100	0	1800	ug/Kg	86				70 (75)	130 (111)	
3+4-Methylphenols	2100	0	1900	ug/Kg	90				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	2100	0	1700	ug/Kg	81				70 (59)	130 (119)	
Hexachloroethane	2100	0	1800	ug/Kg	86				20 (65)	160 (117)	
Nitrobenzene	2100	0	1800	ug/Kg	86				70 (70)	130 (119)	
Isophorone	2100	0	1800	ug/Kg	86				70 (76)	130 (122)	
2-Nitrophenol	2100	0	1900	ug/Kg	90				70 (54)	130 (145)	
2,4-Dimethylphenol	2100	0	2400	ug/Kg	114				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	2100	0	1700	ug/Kg	81				70 (68)	130 (112)	
2,4-Dichlorophenol	2100	0	1900	ug/Kg	90				70 (72)	130 (118)	
Naphthalene	2100	0	1700	ug/Kg	81				70 (72)	130 (110)	
4-Chloroaniline	2100	0	430	ug/Kg	20	*			70 (10)	130 (91)	
Hexachlorobutadiene	2100	0	1700	ug/Kg	81				70 (66)	130 (114)	
Caprolactam	2100	0	2000	ug/Kg	95				20 (51)	160 (134)	
4-Chloro-3-methylphenol	2100	0	1900	ug/Kg	90				70 (57)	130 (132)	
2-Methylnaphthalene	2100	0	1600	ug/Kg	76				70 (59)	130 (123)	
Hexachlorocyclopentadiene	4100	0	6900	ug/Kg	168	*			20 (10)	160 (175)	
2,4,6-Trichlorophenol	2100	0	1900	ug/Kg	90				70 (72)	130 (117)	
2,4,5-Trichlorophenol	2100	0	1900	ug/Kg	90				70 (72)	130 (117)	
1,1-Biphenyl	2100	0	1900	ug/Kg	90				70 (75)	130 (113)	
2-Chloronaphthalene	2100	0	1700	ug/Kg	81				70 (67)	130 (118)	
2-Nitroaniline	2100	0	1800	ug/Kg	86				70 (69)	130 (127)	
Dimethylphthalate	2100	0	1700	ug/Kg	81				70 (70)	130 (113)	
Acenaphthylene	2100	0	1800	ug/Kg	86				70 (79)	130 (118)	
2,6-Dinitrotoluene	2100	0	1700	ug/Kg	81				70 (70)	130 (125)	
3-Nitroaniline	2100	0	780	ug/Kg	37	*			70 (30)	130 (99)	
Acenaphthene	2100	0	1700	ug/Kg	81				70 (70)	130 (121)	
2,4-Dinitrophenol	4100	0	3800	ug/Kg	93				20 (10)	160 (155)	
4-Nitrophenol	4100	0	4200	ug/Kg	102				20 (45)	160 (133)	
Dibenzofuran	2100	0	1600	ug/Kg	76				70 (72)	130 (110)	
2,4-Dinitrotoluene	2100	0	1800	ug/Kg	86				70 (55)	130 (128)	
Diethylphthalate	2100	0	1700	ug/Kg	81				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	2100	0	1700	ug/Kg	81				70 (71)	130 (108)	
Fluorene	2100	0	1700	ug/Kg	81				70 (68)	130 (116)	
4-Nitroaniline	2100	0	1800	ug/Kg	86				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	2100	0	1900	ug/Kg	90				70 (10)	130 (160)	
N-Nitrosodiphenylamine	2100	0	1800	ug/Kg	86				70 (73)	130 (118)	
4-Bromophenyl-phenylether	2100	0	1800	ug/Kg	86				70 (65)	130 (121)	
Hexachlorobenzene	2100	0	1700	ug/Kg	81				70 (67)	130 (118)	
Atrazine	2100	0	2600	ug/Kg	124				70 (79)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1514

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
Pentachlorophenol	4100	0	3800	ug/Kg	93				20 (47)	160 (128)	
Phenanthrene	2100	0	1800	ug/Kg	86				70 (52)	130 (128)	
Anthracene	2100	0	1800	ug/Kg	86				70 (62)	130 (124)	
Carbazole	2100	0	1700	ug/Kg	81				70 (59)	130 (119)	
Di-n-butylphthalate	2100	0	1800	ug/Kg	86				70 (69)	130 (118)	
Fluoranthene	2100	0	1700	ug/Kg	81				70 (44)	130 (125)	
Pyrene	2100	0	1700	ug/Kg	81				70 (26)	130 (142)	
Butylbenzylphthalate	2100	0	1900	ug/Kg	90				70 (64)	130 (126)	
3,3-Dichlorobenzidine	2100	0	820	ug/Kg	39	*			70 (33)	130 (116)	
Benzo(a)anthracene	2100	0	1800	ug/Kg	86				70 (71)	130 (114)	
Chrysene	2100	0	1700	ug/Kg	81				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	2100	0	2000	ug/Kg	95				70 (42)	130 (169)	
Di-n-octyl phthalate	2100	0	2000	ug/Kg	95				70 (23)	130 (175)	
Benzo(b)fluoranthene	2100	0	1700	ug/Kg	81				70 (67)	130 (121)	
Benzo(k)fluoranthene	2100	0	1700	ug/Kg	81				70 (57)	130 (134)	
Benzo(a)pyrene	2100	0	1800	ug/Kg	86				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	2100	0	1800	ug/Kg	86				70 (40)	130 (129)	
Dibenz(a,h)anthracene	2100	0	1800	ug/Kg	86				70 (43)	130 (123)	
Benzo(g,h,i)perylene	2100	0	1700	ug/Kg	81				70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	2100	0	1800	ug/Kg	86				70 (69)	130 (124)	
1,4-Dioxane	2100	0	1700	ug/Kg	81				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	2100	0	1900	ug/Kg	90				70 (69)	130 (112)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1514

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: Q1514-03MSD		**Client Sample ID: ENV-105-SB02MSD**						**DataFile: BG064067.D**			
Benzaldehyde	2100	0	830	ug/Kg	40		0		20 (10)	160 (86)	30 (20)
Phenol	2100	0	1900	ug/Kg	90		5		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	2100	0	1600	ug/Kg	76		0		70 (54)	130 (125)	30 (20)
2-Chlorophenol	2100	0	1800	ug/Kg	86		0		70 (79)	130 (107)	30 (20)
2-Methylphenol	2100	0	1900	ug/Kg	90		5		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	2100	0	1700	ug/Kg	81		6		70 (65)	130 (110)	30 (20)
Acetophenone	2100	0	1800	ug/Kg	86		0		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	2100	0	1900	ug/Kg	90		0		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	2100	0	1700	ug/Kg	81		0		70 (59)	130 (119)	30 (20)
Hexachloroethane	2100	0	1800	ug/Kg	86		0		20 (65)	160 (117)	30 (20)
Nitrobenzene	2100	0	1800	ug/Kg	86		0		70 (70)	130 (119)	30 (20)
Isophorone	2100	0	1800	ug/Kg	86		0		70 (76)	130 (122)	30 (20)
2-Nitrophenol	2100	0	2000	ug/Kg	95		5		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	2100	0	2400	ug/Kg	114		0		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	2100	0	1700	ug/Kg	81		0		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	2100	0	2000	ug/Kg	95		5		70 (72)	130 (118)	30 (20)
Naphthalene	2100	0	1700	ug/Kg	81		0		70 (72)	130 (110)	30 (20)
4-Chloroaniline	2100	0	480	ug/Kg	23	*	14		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	2100	0	1700	ug/Kg	81		0		70 (66)	130 (114)	30 (20)
Caprolactam	2100	0	2100	ug/Kg	100		5		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	2100	0	1900	ug/Kg	90		0		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	2100	0	1700	ug/Kg	81		6		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	4100	0	6600	ug/Kg	161	*	4		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	2100	0	2000	ug/Kg	95		5		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	2100	0	1900	ug/Kg	90		0		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	2100	0	1800	ug/Kg	86		5		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	2100	0	1700	ug/Kg	81		0		70 (67)	130 (118)	30 (20)
2-Nitroaniline	2100	0	1900	ug/Kg	90		5		70 (69)	130 (127)	30 (20)
Dimethylphthalate	2100	0	1700	ug/Kg	81		0		70 (70)	130 (113)	30 (20)
Acenaphthylene	2100	0	1800	ug/Kg	86		0		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	2100	0	1700	ug/Kg	81		0		70 (70)	130 (125)	30 (20)
3-Nitroaniline	2100	0	850	ug/Kg	40	*	8		70 (30)	130 (99)	30 (20)
Acenaphthene	2100	0	1700	ug/Kg	81		0		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	4100	0	4100	ug/Kg	100		7		20 (10)	160 (155)	30 (20)
4-Nitrophenol	4100	0	4200	ug/Kg	102		0		20 (45)	160 (133)	30 (20)
Dibenzofuran	2100	0	1600	ug/Kg	76		0		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	2100	0	1900	ug/Kg	90		5		70 (55)	130 (128)	30 (20)
Diethylphthalate	2100	0	1700	ug/Kg	81		0		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	2100	0	1700	ug/Kg	81		0		70 (71)	130 (108)	30 (20)
Fluorene	2100	0	1700	ug/Kg	81		0		70 (68)	130 (116)	30 (20)
4-Nitroaniline	2100	0	1800	ug/Kg	86		0		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	2100	0	1900	ug/Kg	90		0		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	2100	0	1800	ug/Kg	86		0		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	2100	0	1800	ug/Kg	86		0		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	2100	0	1700	ug/Kg	81		0		70 (67)	130 (118)	30 (20)
Atrazine	2100	0	2600	ug/Kg	124		0		70 (79)	130 (127)	30 (20)

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1514

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
Pentachlorophenol	4100	0	3800	ug/Kg	93		0		20 (47)	160 (128)	30 (20)
Phenanthrene	2100	0	1800	ug/Kg	86		0		70 (52)	130 (128)	30 (20)
Anthracene	2100	0	1800	ug/Kg	86		0		70 (62)	130 (124)	30 (20)
Carbazole	2100	0	1700	ug/Kg	81		0		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	2100	0	1800	ug/Kg	86		0		70 (69)	130 (118)	30 (20)
Fluoranthene	2100	0	1700	ug/Kg	81		0		70 (44)	130 (125)	30 (20)
Pyrene	2100	0	1800	ug/Kg	86		6		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	2100	0	1900	ug/Kg	90		0		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	2100	0	830	ug/Kg	40	*	3		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	2100	0	1800	ug/Kg	86		0		70 (71)	130 (114)	30 (20)
Chrysene	2100	0	1700	ug/Kg	81		0		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	2100	0	2000	ug/Kg	95		0		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	2100	0	2000	ug/Kg	95		0		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	2100	0	1700	ug/Kg	81		0		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	2100	0	1700	ug/Kg	81		0		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	2100	0	1800	ug/Kg	86		0		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	2100	0	1800	ug/Kg	86		0		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	2100	0	1800	ug/Kg	86		0		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	2100	0	1700	ug/Kg	81		0		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	2100	0	1800	ug/Kg	86		0		70 (69)	130 (124)	30 (20)
1,4-Dioxane	2100	0	1700	ug/Kg	81		0		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	2100	0	1900	ug/Kg	90		0		70 (69)	130 (112)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1514

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BG064058.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167031BS	Benzaldehyde	1700	660	ug/Kg	39				20 (10)	160 (133)	
	Phenol	1700	1400	ug/Kg	82				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1300	ug/Kg	76				70 (60)	130 (101)	
	2-Chlorophenol	1700	1400	ug/Kg	82				70 (65)	130 (112)	
	2-Methylphenol	1700	1500	ug/Kg	88				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1300	ug/Kg	76				70 (51)	130 (100)	
	Acetophenone	1700	1400	ug/Kg	82				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1500	ug/Kg	88				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1300	ug/Kg	76				70 (63)	130 (95)	
	Hexachloroethane	1700	1300	ug/Kg	76				20 (72)	160 (108)	
	Nitrobenzene	1700	1400	ug/Kg	82				70 (57)	130 (101)	
	Isophorone	1700	1400	ug/Kg	82				70 (59)	130 (99)	
	2-Nitrophenol	1700	1400	ug/Kg	82				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1800	ug/Kg	106				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1300	ug/Kg	76				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1400	ug/Kg	82				70 (62)	130 (107)	
	Naphthalene	1700	1300	ug/Kg	76				70 (62)	130 (100)	
	4-Chloroaniline	1700	660	ug/Kg	39		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1300	ug/Kg	76				70 (53)	130 (98)	
	Caprolactam	1700	1600	ug/Kg	94				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1400	ug/Kg	82				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1200	ug/Kg	71				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	4800	ug/Kg	145				20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1500	ug/Kg	88				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1500	ug/Kg	88				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1400	ug/Kg	82				70 (58)	130 (99)	
	2-Nitroaniline	1700	1400	ug/Kg	82				70 (66)	130 (101)	
	Dimethylphthalate	1700	1400	ug/Kg	82				70 (61)	130 (99)	
	Acenaphthylene	1700	1400	ug/Kg	82				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1400	ug/Kg	82				70 (61)	130 (104)	
	3-Nitroaniline	1700	870	ug/Kg	51		*		70 (28)	130 (100)	
	Acenaphthene	1700	1300	ug/Kg	76				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	2800	ug/Kg	85				20 (37)	160 (128)	
	4-Nitrophenol	3300	3200	ug/Kg	97				20 (48)	160 (119)	
	Dibenzofuran	1700	1300	ug/Kg	76				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1400	ug/Kg	82				70 (60)	130 (106)	
	Diethylphthalate	1700	1300	ug/Kg	76				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1300	ug/Kg	76				70 (58)	130 (98)	
	Fluorene	1700	1300	ug/Kg	76				70 (61)	130 (101)	
	4-Nitroaniline	1700	1500	ug/Kg	88				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	1400	ug/Kg	82				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1400	ug/Kg	82				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1300	ug/Kg	76				70 (66)	130 (102)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1514

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BG064058.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167031BS	Hexachlorobenzene	1700	1400	ug/Kg	82				70 (64)	130 (98)	
	Atrazine	1700	2100	ug/Kg	124				70 (47)	130 (152)	
	Pentachlorophenol	3300	2800	ug/Kg	85				20 (67)	160 (105)	
	Phenanthrene	1700	1400	ug/Kg	82				70 (59)	130 (103)	
	Anthracene	1700	1400	ug/Kg	82				70 (61)	130 (105)	
	Carbazole	1700	1400	ug/Kg	82				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1400	ug/Kg	82				70 (58)	130 (104)	
	Fluoranthene	1700	1300	ug/Kg	76				70 (57)	130 (107)	
	Pyrene	1700	1400	ug/Kg	82				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1400	ug/Kg	82				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	900	ug/Kg	53		*		70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1400	ug/Kg	82				70 (60)	130 (102)	
	Chrysene	1700	1300	ug/Kg	76				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	1500	ug/Kg	88				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	1500	ug/Kg	88				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1300	ug/Kg	76				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1300	ug/Kg	76				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1400	ug/Kg	82				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1400	ug/Kg	82				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1400	ug/Kg	82				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	1300	ug/Kg	76				70 (70)	130 (108)	
	1,2,4,5-Tetrachlorobenzene	1700	1400	ug/Kg	82				70 (53)	130 (101)	
	1,4-Dioxane	1700	1300	ug/Kg	76				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1400	ug/Kg	82				70 (59)	130 (108)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1514

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BG064060.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167027BS	Benzaldehyde	50	21.0	ug/L	42				20 (10)	160 (162)	
	Phenol	50	45.7	ug/L	91				20 (66)	160 (118)	
	bis(2-Chloroethyl)ether	50	39.5	ug/L	79				70 (62)	130 (103)	
	2-Chlorophenol	50	44.0	ug/L	88				70 (70)	130 (117)	
	2-Methylphenol	50	47.8	ug/L	96				70 (69)	130 (109)	
	2,2-oxybis(1-Chloropropane)	50	42.8	ug/L	86				70 (65)	130 (100)	
	Acetophenone	50	45.7	ug/L	91				70 (60)	130 (104)	
	3+4-Methylphenols	50	47.7	ug/L	95				20 (67)	160 (106)	
	N-Nitroso-di-n-propylamine	50	42.6	ug/L	85				70 (57)	130 (107)	
	Hexachloroethane	50	42.0	ug/L	84				20 (76)	160 (118)	
	Nitrobenzene	50	44.1	ug/L	88				70 (58)	130 (106)	
	Isophorone	50	43.7	ug/L	87				70 (61)	130 (102)	
	2-Nitrophenol	50	43.6	ug/L	87				70 (70)	130 (115)	
	2,4-Dimethylphenol	50	60.0	ug/L	120				70 (42)	130 (142)	
	bis(2-Chloroethoxy)methane	50	41.7	ug/L	83				70 (58)	130 (109)	
	2,4-Dichlorophenol	50	48.1	ug/L	96				70 (66)	130 (115)	
	Naphthalene	50	41.1	ug/L	82				70 (64)	130 (107)	
	4-Chloroaniline	50	18.1	ug/L	36		*		70 (10)	130 (85)	
	Hexachlorobutadiene	50	42.4	ug/L	85				70 (69)	130 (101)	
	Caprolactam	50	51.9	ug/L	104				20 (58)	160 (128)	
	4-Chloro-3-methylphenol	50	46.4	ug/L	93				70 (65)	130 (114)	
	2-Methylnaphthalene	50	40.9	ug/L	82				70 (64)	130 (107)	
	Hexachlorocyclopentadiene	100	160	ug/L	160				20 (36)	160 (160)	
	2,4,6-Trichlorophenol	50	47.8	ug/L	96				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	48.4	ug/L	97				70 (70)	130 (106)	
	1,1-Biphenyl	50	45.3	ug/L	91				70 (72)	130 (98)	
	2-Chloronaphthalene	50	41.9	ug/L	84				70 (59)	130 (106)	
	2-Nitroaniline	50	44.1	ug/L	88				70 (73)	130 (114)	
	Dimethylphthalate	50	42.0	ug/L	84				70 (64)	130 (103)	
	Acenaphthylene	50	44.4	ug/L	89				70 (79)	130 (103)	
	2,6-Dinitrotoluene	50	42.8	ug/L	86				70 (64)	130 (110)	
	3-Nitroaniline	50	25.6	ug/L	51		*		70 (28)	130 (100)	
	Acenaphthene	50	42.0	ug/L	84				70 (59)	130 (113)	
	2,4-Dinitrophenol	100	88.1	ug/L	88				20 (36)	160 (166)	
	4-Nitrophenol	100	99.9	ug/L	100				20 (45)	160 (147)	
	Dibenzofuran	50	40.0	ug/L	80				70 (65)	130 (106)	
	2,4-Dinitrotoluene	50	45.0	ug/L	90				70 (60)	130 (115)	
	Diethylphthalate	50	42.1	ug/L	84				70 (63)	130 (105)	
	4-Chlorophenyl-phenylether	50	41.4	ug/L	83				70 (61)	130 (104)	
	Fluorene	50	41.7	ug/L	83				70 (64)	130 (107)	
	4-Nitroaniline	50	44.8	ug/L	90				70 (55)	130 (125)	
	4,6-Dinitro-2-methylphenol	50	44.5	ug/L	89				70 (62)	130 (132)	
	N-Nitrosodiphenylamine	50	43.6	ug/L	87				70 (61)	130 (109)	
	4-Bromophenyl-phenylether	50	43.7	ug/L	87				70 (73)	130 (103)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1514

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BG064060.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167027BS	Hexachlorobenzene	50	42.9	ug/L	86				70 (73)	130 (106)	
	Atrazine	50	65.3	ug/L	131		*		70 (76)	130 (120)	
	Pentachlorophenol	100	91.6	ug/L	92				20 (47)	160 (114)	
	Phenanthrene	50	43.2	ug/L	86				70 (62)	130 (109)	
	Anthracene	50	44.6	ug/L	89				70 (65)	130 (110)	
	Carbazole	50	42.6	ug/L	85				70 (62)	130 (106)	
	Di-n-butylphthalate	50	44.0	ug/L	88				70 (64)	130 (106)	
	Fluoranthene	50	41.4	ug/L	83				70 (64)	130 (110)	
	Pyrene	50	43.6	ug/L	87				70 (71)	130 (103)	
	Butylbenzylphthalate	50	44.8	ug/L	90				70 (61)	130 (105)	
	3,3-Dichlorobenzidine	50	28.9	ug/L	58		*		70 (43)	130 (108)	
	Benzo(a)anthracene	50	44.6	ug/L	89				70 (62)	130 (107)	
	Chrysene	50	43.2	ug/L	86				70 (61)	130 (108)	
	bis(2-Ethylhexyl)phthalate	50	48.2	ug/L	96				70 (59)	130 (110)	
	Di-n-octyl phthalate	50	47.6	ug/L	95				70 (52)	130 (139)	
	Benzo(b)fluoranthene	50	42.4	ug/L	85				70 (77)	130 (113)	
	Benzo(k)fluoranthene	50	43.2	ug/L	86				70 (77)	130 (105)	
	Benzo(a)pyrene	50	45.7	ug/L	91				70 (72)	130 (131)	
	Indeno(1,2,3-cd)pyrene	50	45.3	ug/L	91				70 (72)	130 (105)	
	Dibenz(a,h)anthracene	50	44.6	ug/L	89				70 (78)	130 (115)	
	Benzo(g,h,i)perylene	50	41.6	ug/L	83				70 (75)	130 (118)	
	1,2,4,5-Tetrachlorobenzene	50	44.5	ug/L	89				70 (72)	130 (101)	
	1,4-Dioxane	50	38.2	ug/L	76				20 (38)	160 (125)	
	2,3,4,6-Tetrachlorophenol	50	46.9	ug/L	94				70 (63)	130 (116)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1514

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BG064061.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167027BSD	Benzaldehyde	50	19.9	ug/L	40	5			20 (10)	160 (162)	20 (20)
	Phenol	50	42.3	ug/L	85	8			20 (66)	160 (118)	20 (20)
	bis(2-Chloroethyl)ether	50	38.5	ug/L	77	3			70 (62)	130 (103)	20 (20)
	2-Chlorophenol	50	40.4	ug/L	81	9			70 (70)	130 (117)	20 (20)
	2-Methylphenol	50	43.9	ug/L	88	9			70 (69)	130 (109)	20 (20)
	2,2-oxybis(1-Chloropropane)	50	39.3	ug/L	79	9			70 (65)	130 (100)	20 (20)
	Acetophenone	50	41.5	ug/L	83	10			70 (60)	130 (104)	20 (20)
	3+4-Methylphenols	50	43.2	ug/L	86	10			20 (67)	160 (106)	20 (20)
	N-Nitroso-di-n-propylamine	50	39.9	ug/L	80	7			70 (57)	130 (107)	20 (20)
	Hexachloroethane	50	40.6	ug/L	81	3			20 (76)	160 (118)	20 (20)
	Nitrobenzene	50	40.7	ug/L	81	8			70 (58)	130 (106)	20 (20)
	Isophorone	50	39.3	ug/L	79	11			70 (61)	130 (102)	20 (20)
	2-Nitrophenol	50	42.1	ug/L	84	4			70 (70)	130 (115)	20 (20)
	2,4-Dimethylphenol	50	53.9	ug/L	108	11			70 (42)	130 (142)	20 (20)
	bis(2-Chloroethoxy)methane	50	38.7	ug/L	77	7			70 (58)	130 (109)	20 (20)
	2,4-Dichlorophenol	50	43.5	ug/L	87	10			70 (66)	130 (115)	20 (20)
	Naphthalene	50	37.0	ug/L	74	10			70 (64)	130 (107)	20 (20)
	4-Chloroaniline	50	17.5	ug/L	35	3	*		70 (10)	130 (85)	20 (20)
	Hexachlorobutadiene	50	38.7	ug/L	77	9			70 (69)	130 (101)	20 (20)
	Caprolactam	50	46.6	ug/L	93	11			20 (58)	160 (128)	20 (20)
	4-Chloro-3-methylphenol	50	41.9	ug/L	84	10			70 (65)	130 (114)	20 (20)
	2-Methylnaphthalene	50	37.4	ug/L	75	9			70 (64)	130 (107)	20 (20)
	Hexachlorocyclopentadiene	100	140	ug/L	140	13			20 (36)	160 (160)	20 (20)
	2,4,6-Trichlorophenol	50	41.2	ug/L	82	15			70 (61)	130 (110)	20 (20)
	2,4,5-Trichlorophenol	50	42.6	ug/L	85	13			70 (70)	130 (106)	20 (20)
	1,1-Biphenyl	50	40.4	ug/L	81	11			70 (72)	130 (98)	20 (20)
	2-Chloronaphthalene	50	37.2	ug/L	74	12			70 (59)	130 (106)	20 (20)
	2-Nitroaniline	50	42.6	ug/L	85	3			70 (73)	130 (114)	20 (20)
	Dimethylphthalate	50	38.1	ug/L	76	10			70 (64)	130 (103)	20 (20)
	Acenaphthylene	50	39.7	ug/L	79	11			70 (79)	130 (103)	20 (20)
	2,6-Dinitrotoluene	50	38.7	ug/L	77	10			70 (64)	130 (110)	20 (20)
	3-Nitroaniline	50	22.7	ug/L	45	12	*		70 (28)	130 (100)	20 (20)
	Acenaphthene	50	37.1	ug/L	74	12			70 (59)	130 (113)	20 (20)
	2,4-Dinitrophenol	100	86.0	ug/L	86	2			20 (36)	160 (166)	20 (20)
	4-Nitrophenol	100	90.4	ug/L	90	10			20 (45)	160 (147)	20 (20)
	Dibenzofuran	50	35.9	ug/L	72	11			70 (65)	130 (106)	20 (20)
	2,4-Dinitrotoluene	50	41.3	ug/L	83	9			70 (60)	130 (115)	20 (20)
	Diethylphthalate	50	37.5	ug/L	75	12			70 (63)	130 (105)	20 (20)
	4-Chlorophenyl-phenylether	50	36.9	ug/L	74	11			70 (61)	130 (104)	20 (20)
	Fluorene	50	37.6	ug/L	75	10			70 (64)	130 (107)	20 (20)
	4-Nitroaniline	50	39.1	ug/L	78	14			70 (55)	130 (125)	20 (20)
	4,6-Dinitro-2-methylphenol	50	42.1	ug/L	84	6			70 (62)	130 (132)	20 (20)
	N-Nitrosodiphenylamine	50	40.7	ug/L	81	7			70 (61)	130 (109)	20 (20)
	4-Bromophenyl-phenylether	50	40.4	ug/L	81	8			70 (73)	130 (103)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1514

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BG064061.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB167027BSD	Hexachlorobenzene	50	40.5	ug/L	81	6			70 (73)	130 (106)	20 (20)
	Atrazine	50	60.5	ug/L	121	8			70 (76)	130 (120)	20 (20)
	Pentachlorophenol	100	83.0	ug/L	83	10			20 (47)	160 (114)	20 (20)
	Phenanthrene	50	40.1	ug/L	80	7			70 (62)	130 (109)	20 (20)
	Anthracene	50	41.1	ug/L	82	8			70 (65)	130 (110)	20 (20)
	Carbazole	50	40.2	ug/L	80	6			70 (62)	130 (106)	20 (20)
	Di-n-butylphthalate	50	41.2	ug/L	82	7			70 (64)	130 (106)	20 (20)
	Fluoranthene	50	38.6	ug/L	77	7			70 (64)	130 (110)	20 (20)
	Pyrene	50	39.7	ug/L	79	9			70 (71)	130 (103)	20 (20)
	Butylbenzylphthalate	50	41.5	ug/L	83	8			70 (61)	130 (105)	20 (20)
	3,3-Dichlorobenzidine	50	26.6	ug/L	53	8	*		70 (43)	130 (108)	20 (20)
	Benzo(a)anthracene	50	40.2	ug/L	80	10			70 (62)	130 (107)	20 (20)
	Chrysene	50	39.0	ug/L	78	10			70 (61)	130 (108)	20 (20)
	bis(2-Ethylhexyl)phthalate	50	44.0	ug/L	88	9			70 (59)	130 (110)	20 (20)
	Di-n-octyl phthalate	50	43.4	ug/L	87	9			70 (52)	130 (139)	20 (20)
	Benzo(b)fluoranthene	50	39.1	ug/L	78	8			70 (77)	130 (113)	20 (20)
	Benzo(k)fluoranthene	50	39.6	ug/L	79	9			70 (77)	130 (105)	20 (20)
	Benzo(a)pyrene	50	41.6	ug/L	83	9			70 (72)	130 (131)	20 (20)
	Indeno(1,2,3-cd)pyrene	50	42.1	ug/L	84	7			70 (72)	130 (105)	20 (20)
	Dibenz(a,h)anthracene	50	42.1	ug/L	84	6			70 (78)	130 (115)	20 (20)
	Benzo(g,h,i)perylene	50	38.2	ug/L	76	9			70 (75)	130 (118)	20 (20)
	1,2,4,5-Tetrachlorobenzene	50	39.4	ug/L	79	12			70 (72)	130 (101)	20 (20)
	1,4-Dioxane	50	35.1	ug/L	70	8			20 (38)	160 (125)	20 (20)
	2,3,4,6-Tetrachlorophenol	50	42.6	ug/L	85	10			70 (63)	130 (116)	20 (20)

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167027BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1514 SAS No.: Q1514 SDG NO.: Q1514

Lab File ID: BG064059.D Lab Sample ID: PB167027BL

Instrument ID: BNA_G Date Extracted: 03/07/2025

Matrix: (soil/water) Water Date Analyzed: 03/07/2025

Level: (low/med) LOW Time Analyzed: 14:58

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167027BS	PB167027BS	BG064060.D	03/07/2025
PB167027BSD	PB167027BSD	BG064061.D	03/07/2025
ENV-105-GW01	Q1514-07	BG064063.D	03/07/2025
FB03062025	Q1514-09	BG064064.D	03/07/2025
ENV-103-GW01	Q1514-08	BG064068.D	03/07/2025

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167031BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1514 SAS No.: Q1514 SDG NO.: Q1514

Lab File ID: BG064057.D Lab Sample ID: PB167031BL

Instrument ID: BNA_G Date Extracted: 03/07/2025

Matrix: (soil/water) SOIL Date Analyzed: 03/07/2025

Level: (low/med) LOW Time Analyzed: 13:37

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
ENV-105-SB01	Q1514-01	BF141918.D	03/11/2025
ENV-103-SB01	Q1514-05	BF141915.D	03/11/2025
ENV-105-SB02	Q1514-03	BG064065.D	03/07/2025
ENV-105-SB02MS	Q1514-03MS	BG064066.D	03/07/2025
ENV-105-SB02MSD	Q1514-03MSD	BG064067.D	03/07/2025
PB167031BS	PB167031BS	BG064058.D	03/07/2025

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1514 SDG NO.: Q1514

Lab File ID: BF141896.D DFTPP Injection Date: 03/10/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:31

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.1
68	Less than 2.0% of mass 69	0.5 (1.9) 1
69	Mass 69 relative abundance	32.0
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	44.8
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	31.2
365	Greater than 1% of mass 198	4.2
441	Present, but less than mass 443	19.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.2 (19.2) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF141897.D	03/10/2025	11:01
SSTDICC005	SSTDICC005	BF141898.D	03/10/2025	11:30
SSTDICC010	SSTDICC010	BF141899.D	03/10/2025	12:00
SSTDICC020	SSTDICC020	BF141900.D	03/10/2025	12:29
SSTDICCC040	SSTDICCC040	BF141901.D	03/10/2025	12:58
SSTDICC060	SSTDICC060	BF141903.D	03/10/2025	13:57
SSTDICC080	SSTDICC080	BF141904.D	03/10/2025	14:27
SSTDICC050	SSTDICC050	BF141905.D	03/10/2025	15:20

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1514 SDG NO.: Q1514

Lab File ID: BF141909.D DFTPP Injection Date: 03/11/2025

Instrument ID: BNA_F DFTPP Injection Time: 10:52

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	28.5
68	Less than 2.0% of mass 69	0.5 (2) 1
69	Mass 69 relative abundance	31.0
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	44.9
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	31.7
365	Greater than 1% of mass 198	4.3
441	Present, but less than mass 443	20.8
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.7 (19.7) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF141910.D	03/11/2025	11:51
ENV-103-SB01	Q1514-05	BF141915.D	03/11/2025	14:26
ENV-105-SB01	Q1514-01	BF141918.D	03/11/2025	16:12

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1514 SDG NO.: Q1514

Lab File ID: BG064044.D DFTPP Injection Date: 03/05/2025

Instrument ID: BNA_G DFTPP Injection Time: 08:15

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	55.3
68	Less than 2.0% of mass 69	0.4 (1.1) 1
69	Mass 69 relative abundance	38
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	47
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 60.0% of mass 198	26.2
365	Greater than 1% of mass 198	4.5
441	Present, but less than mass 443	13.7
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	17.2 (20.2) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BG064045.D	03/05/2025	09:02
SSTDICC005	SSTDICC005	BG064046.D	03/05/2025	09:42
SSTDICC010	SSTDICC010	BG064047.D	03/05/2025	10:22
SSTDICC020	SSTDICC020	BG064048.D	03/05/2025	11:03
SSTDICCC040	SSTDICCC040	BG064049.D	03/05/2025	11:43
SSTDICC050	SSTDICC050	BG064050.D	03/05/2025	12:23
SSTDICC060	SSTDICC060	BG064051.D	03/05/2025	13:04
SSTDICC080	SSTDICC080	BG064052.D	03/05/2025	13:44

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: Q1514 SDG NO.: Q1514

Lab File ID: BG064055.D DFTPP Injection Date: 03/07/2025

Instrument ID: BNA_G DFTPP Injection Time: 12:15

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	54.4
68	Less than 2.0% of mass 69	0.2 (0.4) 1
69	Mass 69 relative abundance	37.9
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	46.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	28.2
365	Greater than 1% of mass 198	4.9
441	Present, but less than mass 443	15.4
442	Greater than 50% of mass 198	100.0
443	15.0 - 24.0% of mass 442	18.1 (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	BG064056.D	03/07/2025	12:56
PB167031BL	PB167031BL	BG064057.D	03/07/2025	13:37
PB167031BS	PB167031BS	BG064058.D	03/07/2025	14:18
PB167027BL	PB167027BL	BG064059.D	03/07/2025	14:58
PB167027BS	PB167027BS	BG064060.D	03/07/2025	15:39
PB167027BSD	PB167027BSD	BG064061.D	03/07/2025	16:19
ENV-105-GW01	Q1514-07	BG064063.D	03/07/2025	17:40
FB03062025	Q1514-09	BG064064.D	03/07/2025	18:21
ENV-105-SB02	Q1514-03	BG064065.D	03/07/2025	19:01
ENV-105-SB02MS	Q1514-03MS	BG064066.D	03/07/2025	19:42
ENV-105-SB02MSD	Q1514-03MSD	BG064067.D	03/07/2025	20:22
ENV-103-GW01	Q1514-08	BG064068.D	03/07/2025	21:03

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1514 SAS No.: Q1514 SDG NO.: Q1514

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/11/2025

Lab File ID: BF141910.D Time Analyzed: 11:51

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	212930	6.881	840081	8.16	479107	9.92
	UPPER LIMIT	425860	7.381	1680160	8.663	958214	10.416
	LOWER LIMIT	106465	6.381	420041	7.663	239554	9.416
	EPA SAMPLE NO.						
01	ENV-103-SB01	153238	6.88	609925	8.16	347323	9.91
02	ENV-105-SB01	150957	6.88	586367	8.16	300301	9.92

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.: Q1514 SAS No.: Q1514 SDG NO.: Q1514

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/11/2025

Lab File ID: BF141910.D Time Analyzed: 11:51

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	819898	11.404	519479	14.039	442953	15.509
	UPPER LIMIT	1639800	11.904	1038960	14.539	885906	16.009
	LOWER LIMIT	409949	10.904	259740	13.539	221477	15.009
	EPA SAMPLE NO.						
01	ENV-103-SB01	611592	11.40	452771	14.03	421172	15.50
02	ENV-105-SB01	431301	11.40	338343	14.04	250489	15.52

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.: Q1514 SAS No.: Q1514 SDG NO.: Q1514

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/07/2025

Lab File ID: BG064056.D Time Analyzed: 12:56

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	31620	7.866	134638	10.65	94280	14.49
	UPPER LIMIT	63240	8.366	269276	11.151	188560	14.988
	LOWER LIMIT	15810	7.366	67319	10.151	47140	13.988
	EPA SAMPLE NO.						
01	PB167031BL	29333	7.86	120699	10.65	87279	14.49
02	PB167031BS	37350	7.86	167596	10.66	115306	14.49
03	PB167027BL	31906	7.87	141288	10.65	97981	14.49
04	PB167027BS	34687	7.86	155641	10.66	112589	14.49
05	PB167027BSD	35231	7.86	161506	10.66	117614	14.49
06	ENV-105-SB02	32518	7.86	142122	10.65	99745	14.48
07	ENV-105-SB02MS	33566	7.87	156638	10.65	110984	14.49
08	ENV-105-SB02MSD	34411	7.86	153312	10.65	112515	14.49
09	ENV-105-GW01	37672	7.86	163817	10.65	111944	14.48
10	ENV-103-GW01	34746	7.86	161327	10.65	115460	14.49
11	FB03062025	32854	7.86	141929	10.65	100513	14.49

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.: Q1514 SAS No.: Q1514 SDG NO.: Q1514

EPA Sample No.: SSTDCCC040 Date Analyzed: 03/07/2025

Lab File ID: BG064056.D Time Analyzed: 12:56

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	212553	17.231	237923	21.462	252082	24.482
	UPPER LIMIT	425106	17.731	475846	21.962	504164	24.982
	LOWER LIMIT	106277	16.731	118962	20.962	126041	23.982
	EPA SAMPLE NO.						
01	PB167031BL	222662	17.23	230159	21.46	246932	24.48
02	PB167031BS	265788	17.23	268408	21.47	290005	24.48
03	PB167027BL	246502	17.23	261251	21.46	265918	24.48
04	PB167027BS	253745	17.23	254292	21.47	275837	24.48
05	PB167027BSD	256688	17.23	264113	21.47	280712	24.48
06	ENV-105-SB02	240718	17.23	246568	21.46	266034	24.48
07	ENV-105-SB02MS	250922	17.23	258735	21.46	281256	24.48
08	ENV-105-SB02MSD	255500	17.23	257819	21.47	278096	24.48
09	ENV-105-GW01	252643	17.23	258476	21.46	269422	24.48
10	ENV-103-GW01	254589	17.23	250403	21.46	270468	24.47
11	FB03062025	241431	17.22	267874	21.46	281608	24.47

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: **BG064059.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:	PB167027BL	SDG No.:	Q1514
Lab Sample ID:	PB167027BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064059.D	1	03/07/25 08:24	03/07/25 14:58	PB167027

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.00	U	4.00	10.0	ug/L
108-95-2	Phenol	0.93	U	0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.00	ug/L
95-57-8	2-Chlorophenol	0.71	U	0.71	5.00	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.00	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.50	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.00	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.00	ug/L
78-59-1	Isophorone	1.10	U	1.10	5.00	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.88	U	0.88	5.00	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.00	ug/L
106-47-8	4-Chloroaniline	1.30	U	1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.00	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.84	U	0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	1.10	U	1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	5.00	U	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.89	U	0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	0.91	U	0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.97	U	0.97	5.00	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.00	ug/L
131-11-3	Dimethylphthalate	0.93	U	0.93	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167027BL	SDG No.:	Q1514
Lab Sample ID:	PB167027BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064059.D	1	03/07/25 08:24	03/07/25 14:58	PB167027

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.00	U	1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.00	ug/L
83-32-9	Acenaphthene	0.81	U	0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.40	U	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.0	ug/L
132-64-9	Dibenzofuran	0.93	U	0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.50	U	1.50	5.00	ug/L
84-66-2	Diethylphthalate	1.00	U	1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.98	U	0.98	5.00	ug/L
86-73-7	Fluorene	0.96	U	0.96	5.00	ug/L
100-01-6	4-Nitroaniline	2.00	U	2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.89	U	0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.95	U	0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	1.10	U	1.10	5.00	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.00	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.0	ug/L
85-01-8	Phenanthrene	0.89	U	0.89	5.00	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.00	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.00	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.00	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.94	U	0.94	5.00	ug/L
218-01-9	Chrysene	0.86	U	0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.50	U	2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	1.10	U	1.10	5.00	ug/L

Raw Data: **BG064059.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:	PB167027BL	SDG No.:	Q1514
Lab Sample ID:	PB167027BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064059.D	1	03/07/25 08:24	03/07/25 14:58	PB167027

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.00	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.79	U	0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	142		15 (10) - 110 (139)	95%	SPK: 150
13127-88-3	Phenol-d6	136		15 (10) - 110 (134)	90%	SPK: 150
4165-60-0	Nitrobenzene-d5	95.9		30 (49) - 130 (133)	96%	SPK: 100
321-60-8	2-Fluorobiphenyl	88.6		30 (52) - 130 (132)	89%	SPK: 100
118-79-6	2,4,6-Tribromophenol	145		15 (44) - 110 (137)	97%	SPK: 150
1718-51-0	Terphenyl-d14	92.7		30 (48) - 130 (125)	93%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	31900	7.867			
1146-65-2	Naphthalene-d8	141000	10.652			
15067-26-2	Acenaphthene-d10	98000	14.488			
1517-22-2	Phenanthrene-d10	247000	17.226			
1719-03-5	Chrysene-d12	261000	21.457			
1520-96-3	Perylene-d12	266000	24.477			

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: **BG064057.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:	PB167031BL	SDG No.:	Q1514
Lab Sample ID:	PB167031BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064057.D	1	03/07/25 08:55	03/07/25 13:37	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	180	U	180	330	ug/Kg
108-95-2	Phenol	82.8	U	82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.6	U	83.6	170	ug/Kg
95-57-8	2-Chlorophenol	83.4	U	83.4	170	ug/Kg
95-48-7	2-Methylphenol	80.5	U	80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.8	U	90.8	170	ug/Kg
98-86-2	Acetophenone	86.8	U	86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.7	U	79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	82.9	U	82.9	170	ug/Kg
98-95-3	Nitrobenzene	90.7	U	90.7	170	ug/Kg
78-59-1	Isophorone	84.5	U	84.5	170	ug/Kg
88-75-5	2-Nitrophenol	94.4	U	94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.1	U	93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.7	U	85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.4	U	75.4	170	ug/Kg
91-20-3	Naphthalene	82.5	U	82.5	170	ug/Kg
106-47-8	4-Chloroaniline	82.5	U	82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.2	U	83.2	170	ug/Kg
105-60-2	Caprolactam	86.7	U	86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.4	U	77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.4	U	82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	U	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	71.4	U	71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	74.0	U	74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	87.3	U	87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.2	U	83.2	170	ug/Kg
88-74-4	2-Nitroaniline	94.9	U	94.9	170	ug/Kg
131-11-3	Dimethylphthalate	81.6	U	81.6	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167031BL	SDG No.:	Q1514
Lab Sample ID:	PB167031BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064057.D	1	03/07/25 08:55	03/07/25 13:37	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	86.4	U	86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	83.1	U	83.1	170	ug/Kg
99-09-2	3-Nitroaniline	89.1	U	89.1	170	ug/Kg
83-32-9	Acenaphthene	81.0	U	81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	240	U	240	330	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	330	ug/Kg
132-64-9	Dibenzofuran	84.3	U	84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	86.1	U	86.1	170	ug/Kg
84-66-2	Diethylphthalate	80.0	U	80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	85.5	U	85.5	170	ug/Kg
86-73-7	Fluorene	85.4	U	85.4	170	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	81.5	U	81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	78.8	U	78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	84.9	U	84.9	170	ug/Kg
1912-24-9	Atrazine	91.3	U	91.3	170	ug/Kg
87-86-5	Pentachlorophenol	77.2	U	77.2	330	ug/Kg
85-01-8	Phenanthrene	83.9	U	83.9	170	ug/Kg
120-12-7	Anthracene	84.3	U	84.3	170	ug/Kg
86-74-8	Carbazole	80.2	U	80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	84.2	U	84.2	170	ug/Kg
206-44-0	Fluoranthene	81.6	U	81.6	170	ug/Kg
129-00-0	Pyrene	82.9	U	82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	96.7	U	96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	98.5	U	98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	80.6	U	80.6	170	ug/Kg
218-01-9	Chrysene	79.4	U	79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	90.9	U	90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	110	U	110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.0	U	81.0	170	ug/Kg

Raw Data: **BG064057.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:	PB167031BL	SDG No.:	Q1514
Lab Sample ID:	PB167031BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064057.D	1	03/07/25 08:55	03/07/25 13:37	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	82.5	U	82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	92.9	U	92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.0	U	78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.1	U	81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.0	U	80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.7	U	86.7	170	ug/Kg
123-91-1	1,4-Dioxane	110	U	110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	74.7	U	74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	140		30 (18) - 130 (112)	93%	SPK: 150
13127-88-3	Phenol-d6	134		30 (15) - 130 (107)	89%	SPK: 150
4165-60-0	Nitrobenzene-d5	98.5		30 (18) - 130 (107)	99%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.1		30 (20) - 130 (109)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	151		30 (10) - 130 (116)	100%	SPK: 150
1718-51-0	Terphenyl-d14	100		30 (10) - 130 (105)	100%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	29300	7.861			
1146-65-2	Naphthalene-d8	121000	10.651			
15067-26-2	Acenaphthene-d10	87300	14.488			
1517-22-2	Phenanthrene-d10	223000	17.226			
1719-03-5	Chrysene-d12	230000	21.462			
1520-96-3	Perylene-d12	247000	24.476			

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: **BG064060.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:	PB167027BS	SDG No.:	Q1514
Lab Sample ID:	PB167027BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064060.D	1	03/07/25 08:24	03/07/25 15:39	PB167027

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	21.0		4.00	10.0	ug/L
108-95-2	Phenol	45.7		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	39.5		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	44.0		0.71	5.00	ug/L
95-48-7	2-Methylphenol	47.8		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	42.8		1.40	5.00	ug/L
98-86-2	Acetophenone	45.7		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	47.7		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	42.6		1.50	2.50	ug/L
67-72-1	Hexachloroethane	42.0		1.00	5.00	ug/L
98-95-3	Nitrobenzene	44.1		1.30	5.00	ug/L
78-59-1	Isophorone	43.7		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	43.6		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	60.0		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	41.7		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	48.1		0.88	5.00	ug/L
91-20-3	Naphthalene	41.1		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	18.1		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	42.4		1.30	5.00	ug/L
105-60-2	Caprolactam	51.9		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	46.4		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	40.9		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	160	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	47.8		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	48.4		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	45.3		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	41.9		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	44.1		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	42.0		0.93	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167027BS	SDG No.:	Q1514
Lab Sample ID:	PB167027BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064060.D	1	03/07/25 08:24	03/07/25 15:39	PB167027

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	44.4		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	42.8		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	25.6		1.40	5.00	ug/L
83-32-9	Acenaphthene	42.0		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	88.1	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	99.9	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	40.0		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	45.0		1.50	5.00	ug/L
84-66-2	Diethylphthalate	42.1		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	41.4		0.98	5.00	ug/L
86-73-7	Fluorene	41.7		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	44.8		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	44.5		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	43.6		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	43.7		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	42.9		1.10	5.00	ug/L
1912-24-9	Atrazine	65.3		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	91.6	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	43.2		0.89	5.00	ug/L
120-12-7	Anthracene	44.6		1.10	5.00	ug/L
86-74-8	Carbazole	42.6		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	44.0		1.50	5.00	ug/L
206-44-0	Fluoranthene	41.4		1.30	5.00	ug/L
129-00-0	Pyrene	43.6		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	44.8		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	28.9		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	44.6		0.94	5.00	ug/L
218-01-9	Chrysene	43.2		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	48.2		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	47.6		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	42.4		1.10	5.00	ug/L

Raw Data: **BG064060.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167027BS	SDG No.:	Q1514
Lab Sample ID:	PB167027BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064060.D	1	03/07/25 08:24	03/07/25 15:39	PB167027

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	43.2		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	45.7		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	45.3		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	44.6		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	41.6		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	44.5		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	38.2		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	46.9		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	140		15 (10) - 110 (139)	93%	SPK: 150
13127-88-3	Phenol-d6	137		15 (10) - 110 (134)	91%	SPK: 150
4165-60-0	Nitrobenzene-d5	94.3		30 (49) - 130 (133)	94%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.1		30 (52) - 130 (132)	86%	SPK: 100
118-79-6	2,4,6-Tribromophenol	148		15 (44) - 110 (137)	99%	SPK: 150
1718-51-0	Terphenyl-d14	93.5		30 (48) - 130 (125)	93%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	34700	7.864			
1146-65-2	Naphthalene-d8	156000	10.655			
15067-26-2	Acenaphthene-d10	113000	14.492			
1517-22-2	Phenanthrene-d10	254000	17.23			
1719-03-5	Chrysene-d12	254000	21.466			
1520-96-3	Perylene-d12	276000	24.48			

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:	PB167031BS	SDG No.:	Q1514
Lab Sample ID:	PB167031BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064058.D	1	03/07/25 08:55	03/07/25 14:18	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	660		180	330	ug/Kg
108-95-2	Phenol	1400		82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1300		83.7	170	ug/Kg
95-57-8	2-Chlorophenol	1400		83.5	170	ug/Kg
95-48-7	2-Methylphenol	1500		80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1300		90.9	170	ug/Kg
98-86-2	Acetophenone	1400		86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1300		40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	1300		83.0	170	ug/Kg
98-95-3	Nitrobenzene	1400		90.8	170	ug/Kg
78-59-1	Isophorone	1400		84.6	170	ug/Kg
88-75-5	2-Nitrophenol	1400		94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1800		93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1300		85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1400		75.5	170	ug/Kg
91-20-3	Naphthalene	1300		82.6	170	ug/Kg
106-47-8	4-Chloroaniline	660		82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	1300		83.3	170	ug/Kg
105-60-2	Caprolactam	1600		86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1400		77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	1200		82.5	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4800	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1500		71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	1500		87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	1400		83.3	170	ug/Kg
88-74-4	2-Nitroaniline	1400		95.0	170	ug/Kg
131-11-3	Dimethylphthalate	1400		81.7	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167031BS	SDG No.:	Q1514
Lab Sample ID:	PB167031BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064058.D	1	03/07/25 08:55	03/07/25 14:18	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1400		86.5	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1400		83.2	170	ug/Kg
99-09-2	3-Nitroaniline	870		89.2	170	ug/Kg
83-32-9	Acenaphthene	1300		81.1	170	ug/Kg
51-28-5	2,4-Dinitrophenol	2800	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3200	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1300		84.4	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1400		86.2	170	ug/Kg
84-66-2	Diethylphthalate	1300		80.1	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1300		85.6	170	ug/Kg
86-73-7	Fluorene	1300		85.5	170	ug/Kg
100-01-6	4-Nitroaniline	1500		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1400		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1400		81.6	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1300		78.9	170	ug/Kg
118-74-1	Hexachlorobenzene	1400		85.0	170	ug/Kg
1912-24-9	Atrazine	2100		91.4	170	ug/Kg
87-86-5	Pentachlorophenol	2800	E	77.3	330	ug/Kg
85-01-8	Phenanthrene	1400		84.0	170	ug/Kg
120-12-7	Anthracene	1400		84.4	170	ug/Kg
86-74-8	Carbazole	1400		80.3	170	ug/Kg
84-74-2	Di-n-butylphthalate	1400		84.3	170	ug/Kg
206-44-0	Fluoranthene	1300		81.7	170	ug/Kg
129-00-0	Pyrene	1400		83.0	170	ug/Kg
85-68-7	Butylbenzylphthalate	1400		96.8	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	900		98.6	330	ug/Kg
56-55-3	Benzo(a)anthracene	1400		80.7	170	ug/Kg
218-01-9	Chrysene	1300		79.5	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		91.0	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1500		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1300		81.1	170	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167031BS	SDG No.:	Q1514
Lab Sample ID:	PB167031BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064058.D	1	03/07/25 08:55	03/07/25 14:18	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1300		82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	1400		93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1400		78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1400		81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1300		80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1400		86.8	170	ug/Kg
123-91-1	1,4-Dioxane	1300		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1400		74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	132		30 (18) - 130 (112)	88%	SPK: 150
13127-88-3	Phenol-d6	128		30 (15) - 130 (107)	85%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.2		30 (18) - 130 (107)	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	83.6		30 (20) - 130 (109)	84%	SPK: 100
118-79-6	2,4,6-Tribromophenol	140		30 (10) - 130 (116)	94%	SPK: 150
1718-51-0	Terphenyl-d14	88.3		30 (10) - 130 (105)	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	37400	7.864			
1146-65-2	Naphthalene-d8	168000	10.655			
15067-26-2	Acenaphthene-d10	115000	14.492			
1517-22-2	Phenanthrene-d10	266000	17.23			
1719-03-5	Chrysene-d12	268000	21.466			
1520-96-3	Perylene-d12	290000	24.48			

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: **BG064061.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:	PB167027BSD	SDG No.:	Q1514
Lab Sample ID:	PB167027BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064061.D	1	03/07/25 08:24	03/07/25 16:19	PB167027

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	19.9		4.00	10.0	ug/L
108-95-2	Phenol	42.3		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	38.5		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	40.4		0.71	5.00	ug/L
95-48-7	2-Methylphenol	43.9		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	39.3		1.40	5.00	ug/L
98-86-2	Acetophenone	41.5		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	43.2		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	39.9		1.50	2.50	ug/L
67-72-1	Hexachloroethane	40.6		1.00	5.00	ug/L
98-95-3	Nitrobenzene	40.7		1.30	5.00	ug/L
78-59-1	Isophorone	39.3		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	42.1		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	53.9		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	38.7		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	43.5		0.88	5.00	ug/L
91-20-3	Naphthalene	37.0		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	17.5		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	38.7		1.30	5.00	ug/L
105-60-2	Caprolactam	46.6		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	41.9		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	37.4		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	140	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	41.2		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	42.6		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	40.4		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	37.2		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	42.6		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	38.1		0.93	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	
Client Sample ID:	PB167027BSD	SDG No.:	Q1514
Lab Sample ID:	PB167027BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064061.D	1	03/07/25 08:24	03/07/25 16:19	PB167027

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	39.7		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	38.7		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	22.7		1.40	5.00	ug/L
83-32-9	Acenaphthene	37.1		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	86.0	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	90.4	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	35.9		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	41.3		1.50	5.00	ug/L
84-66-2	Diethylphthalate	37.5		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	36.9		0.98	5.00	ug/L
86-73-7	Fluorene	37.6		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	39.1		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	42.1		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	40.7		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	40.4		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	40.5		1.10	5.00	ug/L
1912-24-9	Atrazine	60.5		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	83.0	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	40.1		0.89	5.00	ug/L
120-12-7	Anthracene	41.1		1.10	5.00	ug/L
86-74-8	Carbazole	40.2		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	41.2		1.50	5.00	ug/L
206-44-0	Fluoranthene	38.6		1.30	5.00	ug/L
129-00-0	Pyrene	39.7		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	41.5		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	26.6		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	40.2		0.94	5.00	ug/L
218-01-9	Chrysene	39.0		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	44.0		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	43.4		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	39.1		1.10	5.00	ug/L

Raw Data: **BG064061.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:	PB167027BSD	SDG No.:	Q1514
Lab Sample ID:	PB167027BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064061.D	1	03/07/25 08:24	03/07/25 16:19	PB167027

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	39.6		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	41.6		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	42.1		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	42.1		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	38.2		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	39.4		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	35.1		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	42.6		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	129		15 (10) - 110 (139)	86%	SPK: 150
13127-88-3	Phenol-d6	126		15 (10) - 110 (134)	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	87.2		30 (49) - 130 (133)	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	77.7		30 (52) - 130 (132)	78%	SPK: 100
118-79-6	2,4,6-Tribromophenol	134		15 (44) - 110 (137)	89%	SPK: 150
1718-51-0	Terphenyl-d14	86.3		30 (48) - 130 (125)	86%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	35200	7.864			
1146-65-2	Naphthalene-d8	162000	10.655			
15067-26-2	Acenaphthene-d10	118000	14.492			
1517-22-2	Phenanthrene-d10	257000	17.23			
1719-03-5	Chrysene-d12	264000	21.466			
1520-96-3	Perylene-d12	281000	24.48			

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: **BG064066.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-105-SB02MS	SDG No.:	Q1514
Lab Sample ID:	Q1514-03MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064066.D	1	03/07/25 08:55	03/07/25 19:42	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	830		220	410	ug/Kg
108-95-2	Phenol	2000		100	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		100	210	ug/Kg
95-57-8	2-Chlorophenol	1800		100	210	ug/Kg
95-48-7	2-Methylphenol	2000		99.4	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1800		110	210	ug/Kg
98-86-2	Acetophenone	1800		110	210	ug/Kg
65794-96-9	3+4-Methylphenols	1900		98.4	410	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1700		49.7	98.6	ug/Kg
67-72-1	Hexachloroethane	1800		100	210	ug/Kg
98-95-3	Nitrobenzene	1800		110	210	ug/Kg
78-59-1	Isophorone	1800		100	210	ug/Kg
88-75-5	2-Nitrophenol	1900		120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	2400		110	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1700		110	210	ug/Kg
120-83-2	2,4-Dichlorophenol	1900		93.1	210	ug/Kg
91-20-3	Naphthalene	1700		100	210	ug/Kg
106-47-8	4-Chloroaniline	430		100	210	ug/Kg
87-68-3	Hexachlorobutadiene	1700		100	210	ug/Kg
105-60-2	Caprolactam	2000		110	410	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1900		95.6	210	ug/Kg
91-57-6	2-Methylnaphthalene	1600		100	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6900	E	190	410	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1900		88.0	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1900		91.2	210	ug/Kg
92-52-4	1,1-Biphenyl	1900		110	210	ug/Kg
91-58-7	2-Chloronaphthalene	1700		100	210	ug/Kg
88-74-4	2-Nitroaniline	1800		120	210	ug/Kg
131-11-3	Dimethylphthalate	1700		100	210	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-105-SB02MS	SDG No.:	Q1514
Lab Sample ID:	Q1514-03MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064066.D	1	03/07/25 08:55	03/07/25 19:42	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		110	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	1700		100	210	ug/Kg
99-09-2	3-Nitroaniline	780		110	210	ug/Kg
83-32-9	Acenaphthene	1700		100	210	ug/Kg
51-28-5	2,4-Dinitrophenol	3800	E	300	410	ug/Kg
100-02-7	4-Nitrophenol	4200	E	140	410	ug/Kg
132-64-9	Dibenzofuran	1600		100	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		110	210	ug/Kg
84-66-2	Diethylphthalate	1700		98.8	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1700		110	210	ug/Kg
86-73-7	Fluorene	1700		110	210	ug/Kg
100-01-6	4-Nitroaniline	1800		130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1900		140	410	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		100	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1800		97.3	210	ug/Kg
118-74-1	Hexachlorobenzene	1700		100	210	ug/Kg
1912-24-9	Atrazine	2600		110	210	ug/Kg
87-86-5	Pentachlorophenol	3800	E	95.3	410	ug/Kg
85-01-8	Phenanthrene	1800		100	210	ug/Kg
120-12-7	Anthracene	1800		100	210	ug/Kg
86-74-8	Carbazole	1700		99.0	210	ug/Kg
84-74-2	Di-n-butylphthalate	1800		100	210	ug/Kg
206-44-0	Fluoranthene	1700		100	210	ug/Kg
129-00-0	Pyrene	1700		100	210	ug/Kg
85-68-7	Butylbenzylphthalate	1900		120	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	820		120	410	ug/Kg
56-55-3	Benzo(a)anthracene	1800		99.5	210	ug/Kg
218-01-9	Chrysene	1700		98.0	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2000		110	210	ug/Kg
117-84-0	Di-n-octyl phthalate	2000		140	410	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		100	210	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-105-SB02MS	SDG No.:	Q1514
Lab Sample ID:	Q1514-03MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064066.D	1	03/07/25 08:55	03/07/25 19:42	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		100	210	ug/Kg
50-32-8	Benzo(a)pyrene	1800		110	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		96.3	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1800		100	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		98.8	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		110	210	ug/Kg
123-91-1	1,4-Dioxane	1700		140	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1900		92.1	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	96.0		30 (18) - 130 (112)	64%	SPK: 150
13127-88-3	Phenol-d6	94.7		30 (15) - 130 (107)	63%	SPK: 150
4165-60-0	Nitrobenzene-d5	61.1		30 (18) - 130 (107)	61%	SPK: 100
321-60-8	2-Fluorobiphenyl	56.8		30 (20) - 130 (109)	57%	SPK: 100
118-79-6	2,4,6-Tribromophenol	99.5		30 (10) - 130 (116)	66%	SPK: 150
1718-51-0	Terphenyl-d14	55.2		30 (10) - 130 (105)	55%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	33600	7.867			
1146-65-2	Naphthalene-d8	157000	10.652			
15067-26-2	Acenaphthene-d10	111000	14.488			
1517-22-2	Phenanthrene-d10	251000	17.232			
1719-03-5	Chrysene-d12	259000	21.462			
1520-96-3	Perylene-d12	281000	24.477			

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: **BG064067.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:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-105-SB02MSD	SDG No.:	Q1514
Lab Sample ID:	Q1514-03MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064067.D	1	03/07/25 08:55	03/07/25 20:22	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	830		220	410	ug/Kg
108-95-2	Phenol	1900		100	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1600		100	210	ug/Kg
95-57-8	2-Chlorophenol	1800		100	210	ug/Kg
95-48-7	2-Methylphenol	1900		99.3	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1700		110	210	ug/Kg
98-86-2	Acetophenone	1800		110	210	ug/Kg
65794-96-9	3+4-Methylphenols	1900		98.3	410	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1700		49.7	98.6	ug/Kg
67-72-1	Hexachloroethane	1800		100	210	ug/Kg
98-95-3	Nitrobenzene	1800		110	210	ug/Kg
78-59-1	Isophorone	1800		100	210	ug/Kg
88-75-5	2-Nitrophenol	2000		120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	2400		110	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1700		110	210	ug/Kg
120-83-2	2,4-Dichlorophenol	2000		93.0	210	ug/Kg
91-20-3	Naphthalene	1700		100	210	ug/Kg
106-47-8	4-Chloroaniline	480		100	210	ug/Kg
87-68-3	Hexachlorobutadiene	1700		100	210	ug/Kg
105-60-2	Caprolactam	2100		110	410	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1900		95.5	210	ug/Kg
91-57-6	2-Methylnaphthalene	1700		100	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6600	E	190	410	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2000		88.0	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1900		91.2	210	ug/Kg
92-52-4	1,1-Biphenyl	1800		110	210	ug/Kg
91-58-7	2-Chloronaphthalene	1700		100	210	ug/Kg
88-74-4	2-Nitroaniline	1900		120	210	ug/Kg
131-11-3	Dimethylphthalate	1700		100	210	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-105-SB02MSD	SDG No.:	Q1514
Lab Sample ID:	Q1514-03MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064067.D	1	03/07/25 08:55	03/07/25 20:22	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		110	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	1700		100	210	ug/Kg
99-09-2	3-Nitroaniline	850		110	210	ug/Kg
83-32-9	Acenaphthene	1700		99.9	210	ug/Kg
51-28-5	2,4-Dinitrophenol	4100	E	300	410	ug/Kg
100-02-7	4-Nitrophenol	4200	E	140	410	ug/Kg
132-64-9	Dibenzofuran	1600		100	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		110	210	ug/Kg
84-66-2	Diethylphthalate	1700		98.7	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1700		110	210	ug/Kg
86-73-7	Fluorene	1700		110	210	ug/Kg
100-01-6	4-Nitroaniline	1800		130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1900		140	410	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		100	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1800		97.2	210	ug/Kg
118-74-1	Hexachlorobenzene	1700		100	210	ug/Kg
1912-24-9	Atrazine	2600		110	210	ug/Kg
87-86-5	Pentachlorophenol	3800	E	95.2	410	ug/Kg
85-01-8	Phenanthrene	1800		100	210	ug/Kg
120-12-7	Anthracene	1800		100	210	ug/Kg
86-74-8	Carbazole	1700		98.9	210	ug/Kg
84-74-2	Di-n-butylphthalate	1800		100	210	ug/Kg
206-44-0	Fluoranthene	1700		100	210	ug/Kg
129-00-0	Pyrene	1800		100	210	ug/Kg
85-68-7	Butylbenzylphthalate	1900		120	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	830		120	410	ug/Kg
56-55-3	Benzo(a)anthracene	1800		99.4	210	ug/Kg
218-01-9	Chrysene	1700		98.0	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2000		110	210	ug/Kg
117-84-0	Di-n-octyl phthalate	2000		140	410	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		99.9	210	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	03/05/25
Project:	Amtrak Sawtooth Bridges 2025	Date Received:	03/06/25
Client Sample ID:	ENV-105-SB02MSD	SDG No.:	Q1514
Lab Sample ID:	Q1514-03MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	81
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
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
BG064067.D	1	03/07/25 08:55	03/07/25 20:22	PB167031

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		100	210	ug/Kg
50-32-8	Benzo(a)pyrene	1800		110	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		96.2	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1800		100	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		98.7	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1800		110	210	ug/Kg
123-91-1	1,4-Dioxane	1700		140	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1900		92.0	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	91.3		30 (18) - 130 (112)	61%	SPK: 150
13127-88-3	Phenol-d6	90.9		30 (15) - 130 (107)	61%	SPK: 150
4165-60-0	Nitrobenzene-d5	62.5		30 (18) - 130 (107)	63%	SPK: 100
321-60-8	2-Fluorobiphenyl	56.4		30 (20) - 130 (109)	56%	SPK: 100
118-79-6	2,4,6-Tribromophenol	102		30 (10) - 130 (116)	68%	SPK: 150
1718-51-0	Terphenyl-d14	55.9		30 (10) - 130 (105)	56%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	34400	7.864			
1146-65-2	Naphthalene-d8	153000	10.649			
15067-26-2	Acenaphthene-d10	113000	14.492			
1517-22-2	Phenanthrene-d10	256000	17.23			
1719-03-5	Chrysene-d12	258000	21.466			
1520-96-3	Perylene-d12	278000	24.48			

U = Not Detected
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B = Analyte Found in Associated Method Blank
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* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Mar 10 15:46:22 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF141897.D 5 =BF141898.D 10 =BF141899.D 20 =BF141900.D 40 =BF141901.D 50 =BF141905.D 60 =BF141903.D 80 =BF1419
04.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.490	0.482	0.536	0.504	0.495	0.501	0.508	0.502	3.43
3)		Pyridine		1.217	1.204	1.334	1.221	1.203	1.209	1.233	1.232	3.77
4)		n-Nitrosodimet...		0.554	0.556	0.621	0.583	0.595	0.594	0.607	0.587	4.26
5)	S	2-Fluorophenol		1.267	1.243	1.298	1.148	1.162	1.146	1.124	1.198	5.79
6)		Aniline		1.599	1.602	1.640	1.465	1.443	1.435	1.351	1.505	7.20
7)	S	Phenol-d6		1.623	1.593	1.644	1.442	1.483	1.471	1.424	1.526	5.99
8)		2-Chlorophenol		1.421	1.354	1.434	1.259	1.295	1.284	1.256	1.329	5.63
9)		Benzaldehyde			1.021	0.975	0.778	0.778	0.716		0.853	15.85
10)	C	Phenol		1.708	1.675	1.747	1.536	1.542	1.532	1.496	1.605	6.30
11)		bis(2-Chloroet...		1.287	1.246	1.281	1.144	1.175	1.176	1.127	1.205	5.43
12)		1,3-Dichlorobe...		1.475	1.489	1.538	1.373	1.401	1.401	1.367	1.435	4.59
13)	C	1,4-Dichlorobe...		1.514	1.503	1.548	1.393	1.408	1.420	1.376	1.452	4.71
14)		1,2-Dichlorobe...		1.461	1.417	1.460	1.303	1.315	1.343	1.273	1.367	5.69
15)		Benzyl Alcohol		1.236	1.252	1.322	1.185	1.214	1.246	1.180	1.233	3.91
16)		2,2'-oxybis(1-...		1.591	1.525	1.534	1.363	1.387	1.472	1.313	1.455	7.07
17)		2-Methylphenol		1.080	1.050	1.122	1.008	1.038	1.079	1.021	1.057	3.73
18)		Hexachloroethane		0.545	0.551	0.576	0.517	0.540	0.560	0.522	0.544	3.76
19)	P	n-Nitroso-di-n...	1.020	1.024	1.000	1.043	0.913	0.940	0.991	0.912	0.980	5.29
20)		3+4-Methylphenols		1.449	1.394	1.470	1.294	1.311	1.334	1.223	1.354	6.55
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.514	0.493	0.513	0.460	0.450	0.469	0.453	0.479	5.76
23)	S	Nitrobenzene-d5		0.345	0.356	0.379	0.348	0.344	0.363	0.353	0.355	3.47
24)		Nitrobenzene		0.347	0.351	0.375	0.346	0.343	0.359	0.352	0.353	3.07
25)		Isophorone		0.647	0.620	0.655	0.600	0.605	0.648	0.622	0.628	3.49
26)	C	2-Nitrophenol		0.150	0.159	0.182	0.175	0.179	0.188	0.181	0.173	7.88
27)		2,4-Dimethylph...		0.247	0.234	0.251	0.231	0.233	0.244	0.232	0.239	3.45
28)		bis(2-Chloroet...		0.411	0.406	0.416	0.372	0.377	0.397	0.378	0.394	4.63
29)	C	2,4-Dichloroph...		0.292	0.295	0.309	0.286	0.295	0.303	0.294	0.296	2.54
30)		1,2,4-Trichlor...		0.337	0.325	0.342	0.310	0.318	0.333	0.322	0.327	3.50
31)		Naphthalene		1.104	1.075	1.101	0.984	1.001	0.973	0.954	1.027	6.22
32)		Benzoic acid			0.149	0.191	0.208	0.228	0.242	0.241	0.210	17.07
33)		4-Chloroaniline		0.383	0.378	0.393	0.351	0.354	0.352	0.329	0.363	6.14
34)	C	Hexachlorobuta...		0.211	0.211	0.221	0.203	0.214	0.214	0.216	0.213	2.52
35)		Caprolactam		0.092	0.089	0.094	0.084	0.088	0.090	0.094	0.090	4.00
36)	C	4-Chloro-3-met...		0.334	0.331	0.349	0.318	0.329	0.334	0.320	0.331	3.13
37)		2-Methylnaphth...		0.746	0.709	0.733	0.653	0.655	0.667	0.645	0.687	6.09
38)		1-Methylnaphth...		0.717	0.691	0.721	0.623	0.619	0.647	0.620	0.663	6.95

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF031025.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.615	0.604	0.626	0.592	0.597	0.606	0.623	0.609	2.11
41)	P	Hexachlorocycl...	0.204	0.221	0.249	0.250	0.237	0.252	0.256	0.238	8.03
42)	S	2,4,6-Tribromo...	0.234	0.236	0.259	0.250	0.259	0.265	0.272	0.254	5.67
43)	C	2,4,6-Trichlor...	0.388	0.389	0.402	0.398	0.400	0.401	0.409	0.398	1.91
44)		2,4,5-Trichlor...	0.396	0.391	0.422	0.389	0.400	0.415	0.407	0.403	3.05
45)	S	2-Fluorobiphenyl	1.430	1.379	1.379	1.254	1.272	1.246	1.246	1.315	5.95
46)		1,1'-Biphenyl	1.636	1.573	1.591	1.454	1.502	1.431	1.450	1.520	5.29
47)		2-Chloronaphth...	1.197	1.141	1.181	1.091	1.129	1.090	1.100	1.133	3.82
48)		2-Nitroaniline	0.296	0.314	0.346	0.322	0.356	0.332	0.330	0.328	6.08
49)		Acenaphthylene	1.765	1.740	1.778	1.635	1.664	1.595	1.589	1.681	4.74
50)		Dimethylphthalate	1.481	1.414	1.469	1.329	1.425	1.345	1.341	1.401	4.47
51)		2,6-Dinitrotol...	0.277	0.279	0.305	0.285	0.307	0.296	0.292	0.292	4.11
52)	C	Acenaphthene	1.236	1.195	1.231	1.146	1.144	1.165	1.152	1.181	3.37
53)		3-Nitroaniline	0.291	0.295	0.316	0.293	0.283	0.301	0.291	0.296	3.61
54)	P	2,4-Dinitrophenol		0.085	0.124	0.142	0.153	0.161	0.169	0.139	22.02
55)		Dibenzofuran	1.849	1.787	1.791	1.614	1.607	1.596	1.570	1.688	6.87
56)	P	4-Nitrophenol	0.192	0.216	0.234	0.230	0.229	0.230	0.230	0.223	6.60
57)		2,4-Dinitrotol...	0.365	0.382	0.402	0.375	0.383	0.383	0.376	0.381	2.95
58)		Fluorene	1.443	1.361	1.381	1.229	1.243	1.234	1.220	1.302	7.01
59)		2,3,4,6-Tetrac...	0.355	0.365	0.390	0.359	0.364	0.366	0.369	0.367	3.05
60)		Diethylphthalate	1.475	1.471	1.497	1.336	1.357	1.338	1.302	1.397	5.80
61)		4-Chlorophenyl...	0.730	0.688	0.702	0.643	0.664	0.656	0.667	0.679	4.41
62)		4-Nitroaniline	0.284	0.288	0.304	0.288	0.287	0.286	0.278	0.288	2.73
63)		Azobenzene	1.392	1.363	1.404	1.245	1.261	1.226	1.197	1.298	6.57
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.083	0.111	0.121	0.130	0.133	0.137	0.119	16.61
66)	c	n-Nitrosodiphe...	0.675	0.651	0.671	0.620	0.638	0.638	0.637	0.647	3.03
67)		4-Bromophenyl-...	0.240	0.249	0.255	0.244	0.263	0.245	0.262	0.251	3.55
68)		Hexachlorobenzene	0.262	0.267	0.284	0.269	0.283	0.271	0.292	0.275	3.92
69)		Atrazine	0.216	0.213	0.193	0.164	0.206			0.198	10.72
70)	C	Pentachlorophenol	0.130	0.151	0.172	0.177	0.180	0.186	0.191	0.170	12.66
71)		Phenanthrene	1.155	1.151	1.138	1.038	1.026	1.032	1.023	1.080	5.90
72)		Anthracene	1.173	1.139	1.139	1.046	1.026	1.036	1.026	1.084	5.89
73)		Carbazole	0.996	0.994	0.985	0.908	0.903	0.892	0.864	0.935	5.91
74)		Di-n-butylphth...	1.320	1.321	1.319	1.177	1.238	1.175	1.132	1.240	6.50
75)	C	Fluoranthene	1.234	1.226	1.228	1.108	1.148	1.059	1.017	1.146	7.66
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.347	0.309	0.190	0.360	0.220	0.275	0.252	0.279	22.73
78)		Pyrene	1.695	1.651	1.727	1.611	1.877	1.823	1.726	1.730	5.38
79)	S	Terphenyl-d14	1.343	1.309	1.360	1.276	1.380	1.417	1.384	1.353	3.56
80)		Butylbenzylpht...	0.629	0.656	0.702	0.655	0.703	0.717	0.677	0.677	4.72
81)		Benzo(a)anthra...	1.370	1.304	1.334	1.273	1.294	1.317	1.294	1.312	2.41
82)		3,3'-Dichlorob...	0.370	0.389	0.380	0.372	0.365	0.394	0.384	0.379	2.78
83)		Chrysene	1.143	1.194	1.260	1.136	1.192	1.213	1.189	1.190	3.53
84)		Bis(2-ethylhex...	0.897	0.912	0.966	0.904	0.978	0.952	0.927	0.934	3.43
85)	c	Di-n-octyl pht...	1.145	1.219	1.338	1.265	1.376	1.390	1.361	1.299	7.10

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF031025.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.097	1.142	1.308	1.287	1.322	1.472	1.429	1.294	10.60
88)		Benzo(b)fluora...	1.420	1.310	1.485	1.210	1.346	1.390	1.434	1.371	6.65
89)		Benzo(k)fluora...	1.162	1.268	1.197	1.205	1.129	1.210	1.041	1.173	6.16
90)	C	Benzo(a)pyrene	1.040	1.042	1.123	1.036	1.083	1.083	1.101	1.073	3.16
91)		Dibenzo(a,h)an...	0.910	0.953	1.073	1.068	1.095	1.195	1.178	1.067	9.91
92)		Benzo(g,h,i)pe...	0.912	0.949	1.061	1.065	1.064	1.167	1.167	1.055	9.24

(#) = Out of Range

Response Factor Report GC/MS Ins

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG030525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Mar 05 15:39:19 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BG064045.D 5 =BG064046.D 10 =BG064047.D 20 =BG064048.D 40 =BG064049.D 50 =BG064050.D 60 =BG064051.D 80 =BG0640
52.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.598	0.605	0.624	0.585	0.559	0.539	0.554	0.580	5.31
3)		Pyridine		1.450	1.445	1.452	1.573	1.338	1.376	1.248	1.412	7.30
4)		n-Nitrosodimet...		0.892	0.976	1.017	1.064	0.996	1.047	1.068	1.009	6.16
5)	S	2-Fluorophenol		1.165	1.240	1.330	1.350	1.259	1.318	1.304	1.281	5.00
6)		Aniline		1.593	1.670	1.825	1.820	1.642	1.748	1.671	1.710	5.24
7)	S	Phenol-d6		1.580	1.631	1.794	1.848	1.703	1.839	1.803	1.742	6.09
8)		2-Chlorophenol		1.262	1.337	1.412	1.446	1.333	1.420	1.420	1.376	4.80
9)		Benzaldehyde		1.111	1.122	1.133	1.003	0.860	0.850		1.013	12.94
10)	C	Phenol		1.590	1.693	1.826	1.881	1.752	1.900	1.846	1.784	6.30
11)		bis(2-Chloroet...		1.375	1.444	1.424	1.415	1.322	1.418	1.394	1.399	2.88
12)		1,3-Dichlorobe...		1.523	1.539	1.501	1.546	1.438	1.519	1.508	1.511	2.36
13)	C	1,4-Dichlorobe...		1.548	1.546	1.607	1.592	1.478	1.536	1.532	1.548	2.72
14)		1,2-Dichlorobe...		1.488	1.464	1.543	1.519	1.416	1.525	1.497	1.493	2.88
15)		Benzyl Alcohol		1.115	1.249	1.343	1.436	1.358	1.467	1.457	1.346	9.50
16)		2,2'-oxybis(1-...		3.064	3.024	3.209	3.282	2.996	3.218	3.222	3.145	3.61
17)		2-Methylphenol		1.015	1.116	1.177	1.268	1.171	1.269	1.271	1.184	8.11
18)		Hexachloroethane		0.489	0.519	0.520	0.577	0.526	0.581	0.580	0.542	6.88
19)	P	n-Nitroso-di-n...	1.146	1.095	1.157	1.282	1.323	1.189	1.322	1.268	1.223	7.13
20)		3+4-Methylphenols		1.402	1.518	1.638	1.706	1.612	1.804	1.729	1.630	8.34
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.522	0.525	0.580	0.563	0.546	0.561	0.543	0.548	3.82
23)	S	Nitrobenzene-d5		0.290	0.300	0.360	0.385	0.390	0.400	0.409	0.362	13.32
24)		Nitrobenzene		0.298	0.320	0.390	0.397	0.396	0.409	0.409	0.374	12.20
25)		Isophorone		0.709	0.672	0.744	0.745	0.717	0.757	0.727	0.724	3.93
26)	C	2-Nitrophenol		0.067	0.079	0.096	0.122	0.130	0.141	0.147	0.112	28.03
27)		2,4-Dimethylph...		0.194	0.187	0.221	0.228	0.221	0.239	0.229	0.217	8.82
28)		bis(2-Chloroet...		0.424	0.417	0.468	0.443	0.427	0.449	0.445	0.439	4.03
29)	C	2,4-Dichloroph...		0.222	0.239	0.281	0.287	0.290	0.301	0.298	0.274	11.22
30)		1,2,4-Trichlor...		0.323	0.317	0.343	0.332	0.336	0.335	0.332	0.331	2.54
31)		Naphthalene		1.078	1.043	1.114	1.079	1.061	1.097	1.077	1.078	2.13
32)		Benzoic acid			0.078	0.139	0.172	0.191	0.217	0.220	0.170	31.75
33)		4-Chloroaniline		0.355	0.364	0.407	0.416	0.394	0.419	0.404	0.394	6.46
34)	C	Hexachlorobuta...		0.208	0.213	0.225	0.219	0.216	0.220	0.218	0.217	2.55
35)		Caprolactam		0.086	0.091	0.112	0.110	0.113	0.112	0.111	0.105	10.78
36)	C	4-Chloro-3-met...		0.293	0.330	0.379	0.373	0.373	0.390	0.376	0.359	9.67
37)		2-Methylnaphth...		0.775	0.727	0.788	0.763	0.746	0.779	0.751	0.761	2.80
38)		1-Methylnaphth...		0.745	0.728	0.771	0.753	0.724	0.768	0.733	0.746	2.53

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG030525.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.547	0.584	0.592	0.586	0.560	0.562	0.566	0.571	2.88
41)	P	Hexachlorocycl...	0.123	0.128	0.161	0.175	0.175	0.180	0.183	0.161	15.44
42)	S	2,4,6-Tribromo...	0.166	0.191	0.226	0.241	0.241	0.250	0.241	0.222	14.12
43)	C	2,4,6-Trichlor...	0.268	0.293	0.341	0.358	0.362	0.368	0.366	0.337	11.89
44)		2,4,5-Trichlor...	0.284	0.330	0.381	0.406	0.396	0.407	0.413	0.374	12.98
45)	S	2-Fluorobiphenyl	1.369	1.310	1.359	1.368	1.283	1.284	1.251	1.318	3.62
46)		1,1'-Biphenyl	1.506	1.499	1.572	1.538	1.475	1.512	1.475	1.511	2.29
47)		2-Chloronaphth...	1.086	1.075	1.100	1.127	1.102	1.121	1.103	1.102	1.63
48)		2-Nitroaniline	0.197	0.231	0.277	0.348	0.368	0.396	0.408	0.318	26.14
49)		Acenaphthylene	1.714	1.677	1.793	1.789	1.735	1.777	1.717	1.743	2.53
50)		Dimethylphthalate	1.432	1.401	1.559	1.520	1.463	1.508	1.452	1.476	3.73
51)		2,6-Dinitrotol...	0.158	0.200	0.262	0.292	0.300	0.307	0.308	0.261	22.73
52)	C	Acenaphthene	1.165	1.148	1.231	1.187	1.159	1.171	1.128	1.170	2.77
53)		3-Nitroaniline	0.190	0.228	0.298	0.316	0.313	0.329	0.323	0.285	18.96
54)	P	2,4-Dinitrophenol		0.066	0.084	0.100	0.111	0.121	0.129	0.102	23.25
55)		Dibenzofuran	1.926	1.881	1.976	1.941	1.853	1.864	1.826	1.895	2.84
56)	P	4-Nitrophenol		0.164	0.200	0.257	0.280	0.270	0.265	0.239	19.47
57)		2,4-Dinitrotol...	0.225	0.255	0.344	0.404	0.418	0.426	0.424	0.357	23.78
58)		Fluorene	1.555	1.450	1.542	1.478	1.452	1.460	1.395	1.476	3.79
59)		2,3,4,6-Tetrac...	0.262	0.326	0.388	0.395	0.385	0.402	0.393	0.365	14.21
60)		Diethylphthalate	1.496	1.501	1.709	1.669	1.624	1.637	1.584	1.603	5.06
61)		4-Chlorophenyl...	0.754	0.744	0.788	0.735	0.712	0.721	0.681	0.733	4.61
62)		4-Nitroaniline	0.213	0.263	0.313	0.345	0.351	0.339	0.333	0.308	16.67
63)		Azobenzene	1.734	1.645	1.785	1.758	1.700	1.705	1.644	1.710	3.13
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.050	0.059	0.075	0.082	0.092	0.096	0.076	24.31
66)	c	n-Nitrosodiphe...	0.558	0.551	0.582	0.578	0.558	0.571	0.565	0.566	2.06
67)		4-Bromophenyl-...	0.186	0.195	0.212	0.210	0.200	0.217	0.213	0.205	5.61
68)		Hexachlorobenzene	0.227	0.226	0.236	0.229	0.228	0.229	0.230	0.229	1.45
69)		Atrazine	0.175	0.190	0.179	0.160	0.129			0.167	14.34
70)	C	Pentachlorophenol		0.105	0.128	0.149	0.151	0.159	0.163	0.142	15.58
71)		Phenanthrene	1.084	1.034	1.110	1.080	1.054	1.059	1.047	1.067	2.44
72)		Anthracene	1.024	1.041	1.104	1.085	1.055	1.065	1.051	1.061	2.55
73)		Carbazole	0.949	0.988	1.020	1.027	1.007	0.986	0.956	0.990	3.02
74)		Di-n-butylphth...	0.932	1.095	1.213	1.257	1.236	1.219	1.208	1.166	9.90
75)	C	Fluoranthene	1.272	1.315	1.336	1.318	1.298	1.243	1.221	1.286	3.31
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.221	0.400	0.238	0.313	0.195	0.299	0.271	0.277	24.80
78)		Pyrene	1.251	1.287	1.350	1.310	1.254	1.290	1.282	1.289	2.63
79)	S	Terphenyl-d14	1.011	1.024	1.062	0.999	0.944	0.957	0.927	0.989	4.88
80)		Butylbenzylpht...	0.285	0.331	0.405	0.465	0.473	0.503	0.502	0.423	20.44
81)		Benzo(a)anthra...	1.217	1.268	1.310	1.303	1.275	1.309	1.286	1.281	2.54
82)		3,3'-Dichlorob...	0.350	0.396	0.444	0.450	0.416	0.436	0.411	0.415	8.27
83)		Chrysene	1.281	1.233	1.308	1.306	1.263	1.301	1.252	1.278	2.29
84)		Bis(2-ethylhex...	0.504	0.582	0.685	0.757	0.751	0.789	0.782	0.693	15.90
85)	c	Di-n-octyl pht...		0.892	1.108	1.239	1.256	1.339	1.338	1.195	14.31

Method Path : Z:\svoasrv\HPCHEM1\BNA_G\Methods\
Method File : 8270-BG030525.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.223	1.232	1.408	1.376	1.354	1.381	1.394	1.338	5.80
88)		Benzo(b)fluora...	1.150	1.146	1.269	1.216	1.232	1.215	1.236	1.209	3.76
89)		Benzo(k)fluora...	1.111	1.189	1.281	1.255	1.205	1.234	1.215	1.213	4.49
90)	C	Benzo(a)pyrene	0.993	1.022	1.124	1.107	1.106	1.092	1.093	1.077	4.57
91)		Dibenzo(a,h)an...	1.029	1.036	1.151	1.133	1.134	1.123	1.160	1.109	4.86
92)		Benzo(g,h,i)pe...	1.049	1.093	1.208	1.152	1.146	1.155	1.168	1.139	4.58

(#) = 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.: Q1514 SAS No.: Q1514 SDG No.: Q1514

Instrument ID: BNA_F Calibration Date/Time: 03/11/2025 11:51

Lab File ID: BF141910.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:01 15:20

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.198	1.135		-5.3	
Benzaldehyde	0.853	0.793		-7.0	
Phenol-d6	1.526	1.442		-5.5	
Phenol	1.605	1.529		-4.7	20.0
bis(2-Chloroethyl)ether	1.205	1.137		-5.6	
2-Chlorophenol	1.329	1.273		-4.2	
2-Methylphenol	1.057	1.011		-4.4	
2,2-oxybis(1-Chloropropane)	1.455	1.336		-8.2	
Acetophenone	0.479	0.454		-5.2	
3+4-Methylphenols	1.354	1.288		-4.9	
n-Nitroso-di-n-propylamine	0.980	0.910	0.050	-7.1	
Nitrobenzene-d5	0.355	0.347		-2.3	
Hexachloroethane	0.544	0.529		-2.8	
Nitrobenzene	0.353	0.343		-2.8	
Isophorone	0.628	0.601		-4.3	
2-Nitrophenol	0.173	0.178		2.9	20.0
2,4-Dimethylphenol	0.239	0.233		-2.5	
bis(2-Chloroethoxy)methane	0.394	0.375		-4.8	
2,4-Dichlorophenol	0.296	0.287		-3.0	20.0
Naphthalene	1.027	0.978		-4.8	
4-Chloroaniline	0.363	0.349		-3.9	
Hexachlorobutadiene	0.213	0.209		-1.9	20.0
Caprolactam	0.090	0.086		-4.4	
4-Chloro-3-methylphenol	0.331	0.318		-3.9	20.0
2-Methylnaphthalene	0.687	0.664		-3.3	
Hexachlorocyclopentadiene	0.238	0.241	0.050	1.3	
2,4,6-Trichlorophenol	0.398	0.399		0.3	20.0
2-Fluorobiphenyl	1.315	1.239		-5.8	
2,4,5-Trichlorophenol	0.403	0.389		-3.5	
1,1-Biphenyl	1.520	1.464		-3.7	
2-Chloronaphthalene	1.133	1.095		-3.4	
2-Nitroaniline	0.328	0.321		-2.1	
Dimethylphthalate	1.401	1.340		-4.4	
Acenaphthylene	1.681	1.623		-3.5	
2,6-Dinitrotoluene	0.292	0.292		0.0	
3-Nitroaniline	0.296	0.289		-2.4	
Acenaphthene	1.181	1.139		-3.6	20.0
2,4-Dinitrophenol	0.139	0.143	0.050	2.9	
4-Nitrophenol	0.223	0.221	0.050	-0.9	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1514 SAS No.: Q1514 SDG No.: Q1514

Instrument ID: BNA_F Calibration Date/Time: 03/11/2025 11:51

Lab File ID: BF141910.D Init. Calib. Date(s): 03/10/2025 03/10/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:01 15:20

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.688	1.616		-4.3	
2,4-Dinitrotoluene	0.381	0.381		0.0	
Diethylphthalate	1.397	1.338		-4.2	
4-Chlorophenyl-phenylether	0.679	0.657		-3.2	
Fluorene	1.302	1.239		-4.8	
4-Nitroaniline	0.288	0.280		-2.8	
4,6-Dinitro-2-methylphenol	0.119	0.119		0.0	
n-Nitrosodiphenylamine	0.647	0.619		-4.3	20.0
2,4,6-Tribromophenol	0.254	0.255		0.4	
4-Bromophenyl-phenylether	0.251	0.245		-2.4	
Hexachlorobenzene	0.275	0.273		-0.7	
Atrazine	0.198	0.183		-7.6	
Pentachlorophenol	0.170	0.172		1.2	20.0
Phenanthrene	1.080	1.027		-4.9	
Anthracene	1.084	1.031		-4.9	
Carbazole	0.935	0.884		-5.5	
Di-n-butylphthalate	1.240	1.176		-5.2	
Fluoranthene	1.146	1.067		-6.9	20.0
Pyrene	1.730	1.662		-3.9	
Terphenyl-d14	1.353	1.336		-1.3	
Butylbenzylphthalate	0.677	0.669		-1.2	
3,3-Dichlorobenzidine	0.379	0.366		-3.4	
Benzo(a)anthracene	1.312	1.219		-7.1	
Chrysene	1.190	1.169		-1.8	
Bis(2-ethylhexyl)phthalate	0.934	0.921		-1.4	
Di-n-octyl phthalate	1.299	1.308		0.7	20.0
Benzo(b)fluoranthene	1.371	1.224		-10.7	
Benzo(k)fluoranthene	1.173	1.141		-2.7	
Benzo(a)pyrene	1.073	1.020		-4.9	20.0
Indeno(1,2,3-cd)pyrene	1.294	1.240		-4.2	
Dibenzo(a,h)anthracene	1.067	1.021		-4.3	
Benzo(g,h,i)perylene	1.055	1.000		-5.2	
1,2,4,5-Tetrachlorobenzene	0.609	0.593		-2.6	
1,4-Dioxane	0.502	0.488		-2.8	20.0
2,3,4,6-Tetrachlorophenol	0.367	0.366		-0.3	

All other compounds must meet a minimum RRF of 0.010.

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1514 SAS No.: Q1514 SDG No.: Q1514

Instrument ID: BNA_G Calibration Date/Time: 03/07/2025 12:56

Lab File ID: BG064056.D Init. Calib. Date(s): 03/05/2025 03/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:02 13:44

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.281	1.291		0.8	
Benzaldehyde	1.013	0.945		-6.7	
Phenol-d6	1.742	1.763		1.2	
Phenol	1.784	1.847		3.5	20.0
bis(2-Chloroethyl)ether	1.399	1.376		-1.6	
2-Chlorophenol	1.376	1.371		-0.4	
2-Methylphenol	1.184	1.182		-0.2	
2,2-oxybis(1-Chloropropane)	3.145	3.061		-2.7	
Acetophenone	0.548	0.561		2.4	
3+4-Methylphenols	1.630	1.620		-0.6	
n-Nitroso-di-n-propylamine	1.223	1.189	0.050	-2.8	
Nitrobenzene-d5	0.362	0.385		6.4	
Hexachloroethane	0.542	0.547		0.9	
Nitrobenzene	0.374	0.399		6.7	
Isophorone	0.724	0.728		0.6	
2-Nitrophenol	0.112	0.113		0.9	20.0
2,4-Dimethylphenol	0.217	0.225		3.7	
bis(2-Chloroethoxy)methane	0.439	0.444		1.1	
2,4-Dichlorophenol	0.274	0.286		4.4	20.0
Naphthalene	1.078	1.097		1.8	
4-Chloroaniline	0.394	0.411		4.3	
Hexachlorobutadiene	0.217	0.220		1.4	20.0
Caprolactam	0.105	0.113		7.6	
4-Chloro-3-methylphenol	0.359	0.384		7.0	20.0
2-Methylnaphthalene	0.761	0.799		5.0	
Hexachlorocyclopentadiene	0.161	0.164	0.050	1.9	
2,4,6-Trichlorophenol	0.337	0.357		5.9	20.0
2-Fluorobiphenyl	1.318	1.344		2.0	
2,4,5-Trichlorophenol	0.374	0.389		4.0	
1,1-Biphenyl	1.511	1.529		1.2	
2-Chloronaphthalene	1.102	1.114		1.1	
2-Nitroaniline	0.318	0.339		6.6	
Dimethylphthalate	1.476	1.470		-0.4	
Acenaphthylene	1.743	1.729		-0.8	
2,6-Dinitrotoluene	0.261	0.286		9.6	
3-Nitroaniline	0.285	0.315		10.5	
Acenaphthene	1.170	1.159		-0.9	20.0
2,4-Dinitrophenol	0.102	0.094	0.050	-7.8	
4-Nitrophenol	0.239	0.254	0.050	6.3	

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.: Q1514 SAS No.: Q1514 SDG No.: Q1514

Instrument ID: BNA_G Calibration Date/Time: 03/07/2025 12:56

Lab File ID: BG064056.D Init. Calib. Date(s): 03/05/2025 03/05/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:02 13:44

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.895	1.896		0.1	
2,4-Dinitrotoluene	0.357	0.390		9.2	
Diethylphthalate	1.603	1.634		1.9	
4-Chlorophenyl-phenylether	0.733	0.717		-2.2	
Fluorene	1.476	1.497		1.4	
4-Nitroaniline	0.308	0.340		10.4	
4,6-Dinitro-2-methylphenol	0.076	0.074		-2.6	
n-Nitrosodiphenylamine	0.566	0.579		2.3	20.0
2,4,6-Tribromophenol	0.222	0.238		7.2	
4-Bromophenyl-phenylether	0.205	0.212		3.4	
Hexachlorobenzene	0.229	0.235		2.6	
Atrazine	0.167	0.159		-4.8	
Pentachlorophenol	0.142	0.140		-1.4	20.0
Phenanthrene	1.067	1.101		3.2	
Anthracene	1.061	1.102		3.9	
Carbazole	0.990	1.032		4.2	
Di-n-butylphthalate	1.166	1.263		8.3	
Fluoranthene	1.286	1.358		5.6	20.0
Pyrene	1.289	1.254		-2.7	
Terphenyl-d14	0.989	0.966		-2.3	
Butylbenzylphthalate	0.423	0.459		8.5	
3,3-Dichlorobenzidine	0.415	0.439		5.8	
Benzo(a)anthracene	1.281	1.296		1.2	
Chrysene	1.278	1.269		-0.7	
Bis(2-ethylhexyl)phthalate	0.693	0.760		9.7	
Di-n-octyl phthalate	1.195	1.220		2.1	20.0
Benzo(b)fluoranthene	1.209	1.218		0.7	
Benzo(k)fluoranthene	1.213	1.234		1.7	
Benzo(a)pyrene	1.077	1.096		1.8	20.0
Indeno(1,2,3-cd)pyrene	1.338	1.369		2.3	
Dibenzo(a,h)anthracene	1.109	1.130		1.9	
Benzo(g,h,i)perylene	1.139	1.157		1.6	
1,2,4,5-Tetrachlorobenzene	0.571	0.583		2.1	
1,4-Dioxane	0.580	0.675		16.4	20.0
2,3,4,6-Tetrachlorophenol	0.365	0.373		2.2	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141918.D
Acq On : 11 Mar 2025 16:12
Operator : RC/JU
Sample : Q1514-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Mar 11 16:52:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.881	152	150957	20.000	ng		0.00
21) Naphthalene-d8	8.157	136	586367	20.000	ng		0.00
39) Acenaphthene-d10	9.916	164	300301	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	431301	20.000	ng		0.00
76) Chrysene-d12	14.039	240	338343	20.000	ng		0.00
86) Perylene-d12	15.521	264	250489	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.492	112	749092	82.819	ng		0.00
7) Phenol-d6	6.498	99	900241	78.171	ng		0.00
23) Nitrobenzene-d5	7.434	82	582366	55.892	ng		-0.01
42) 2,4,6-Tribromophenol	10.698	330	254726	66.862	ng		0.00
45) 2-Fluorobiphenyl	9.233	172	1157452	58.617	ng		0.00
79) Terphenyl-d14	12.986	244	1029420	44.982	ng		0.00
Target Compounds							Qvalue
71) Phenanthrene	11.422	178	219318	9.414	ng		99
72) Anthracene	11.474	178	47239m	2.021	ng		
75) Fluoranthene	12.610	202	205658	8.322	ng		99
78) Pyrene	12.839	202	190783	6.519	ng		96
81) Benzo(a)anthracene	14.027	228	92270	4.156	ng	#	88
83) Chrysene	14.063	228	82029	4.076	ng	#	86
88) Benzo(b)fluoranthene	15.086	252	68107m	3.967	ng		
90) Benzo(a)pyrene	15.457	252	46734	3.479	ng	#	64

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

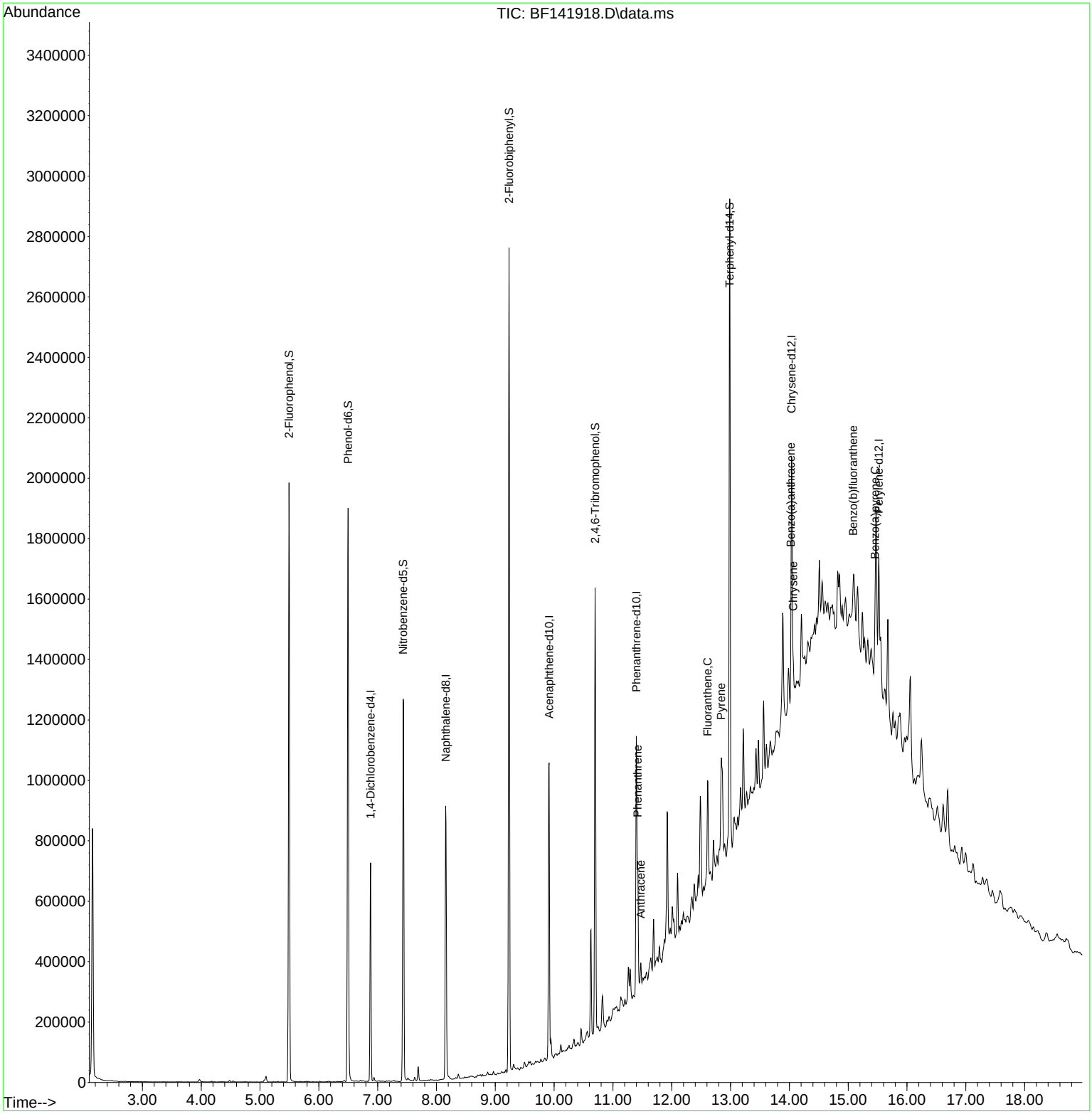
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141918.D
Acq On : 11 Mar 2025 16:12
Operator : RC/JU
Sample : Q1514-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

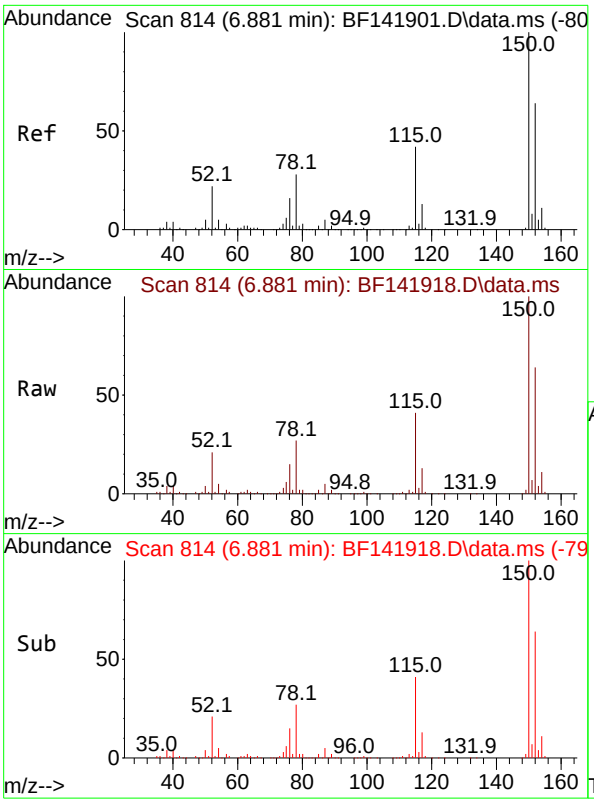
Quant Time: Mar 11 16:52:37 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025

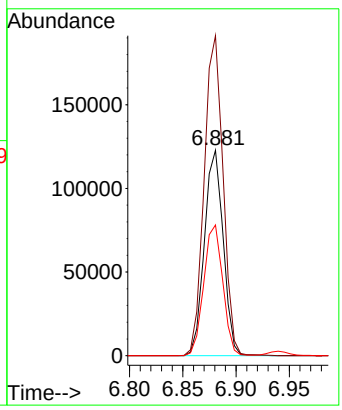




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141918.D
Acq: 11 Mar 2025 16:12

Tgt Ion:152 Resp: 15095

Ion	Ratio	Lower	Upper
152	100		
150	155.8	127.4	191.2
115	63.6	51.9	77.9



Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

Manual Integrations
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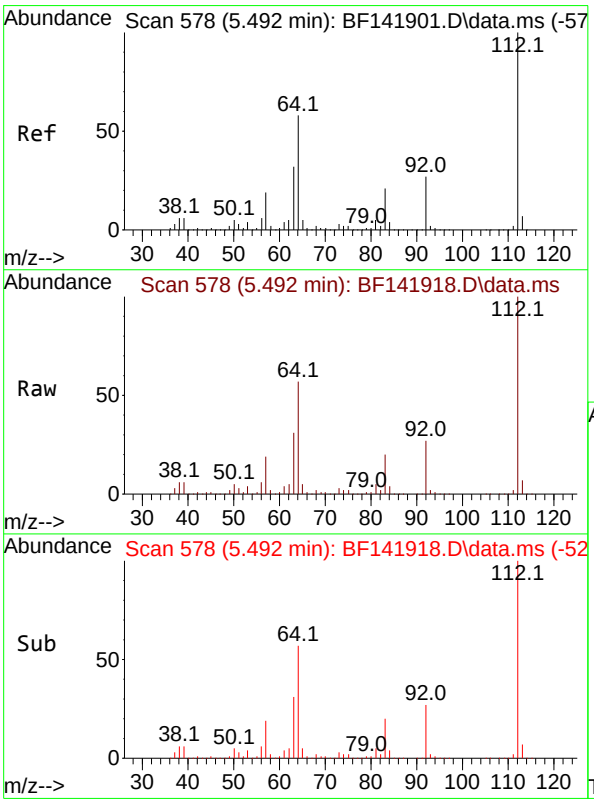
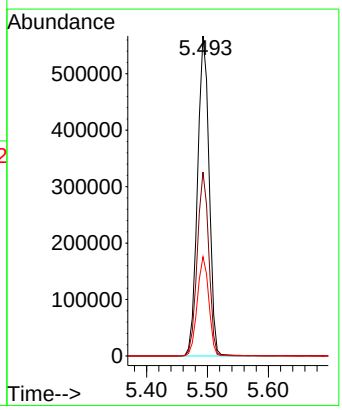
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025

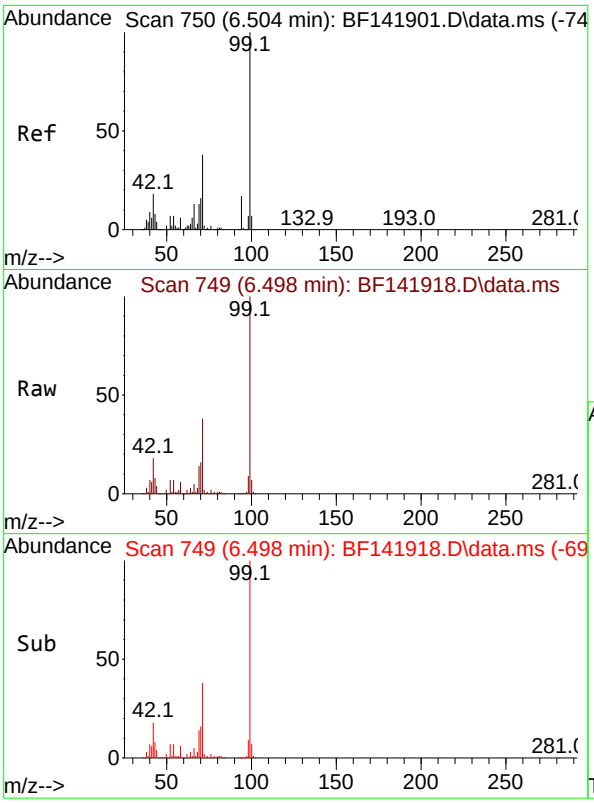


#5
2-Fluorophenol
Concen: 82.819 ng
RT: 5.492 min Scan# 578
Delta R.T. 0.000 min
Lab File: BF141918.D
Acq: 11 Mar 2025 16:12

Tgt Ion:112 Resp: 749092

Ion	Ratio	Lower	Upper
112	100		
64	57.5	46.5	69.7
63	31.0	25.4	38.2

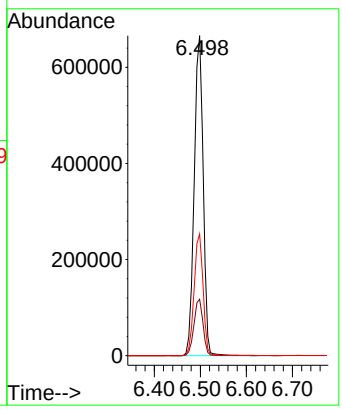




#7
Phenol-d6
Concen: 78.171 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141918.D
Acq: 11 Mar 2025 16:12

Tgt Ion: 99 Resp: 90024

Ion	Ratio	Lower	Upper
99	100		
42	17.7	14.6	21.8
71	38.1	30.8	46.2



Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

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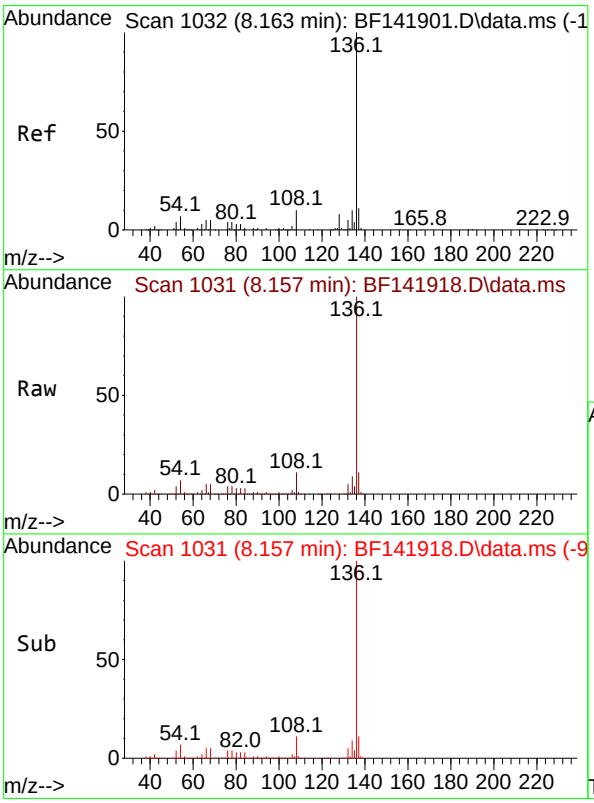
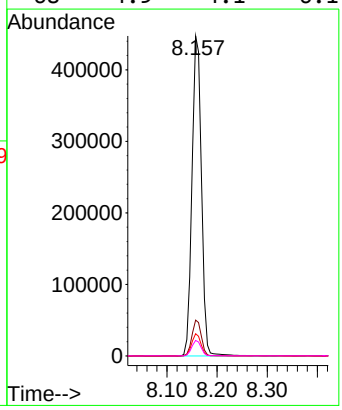
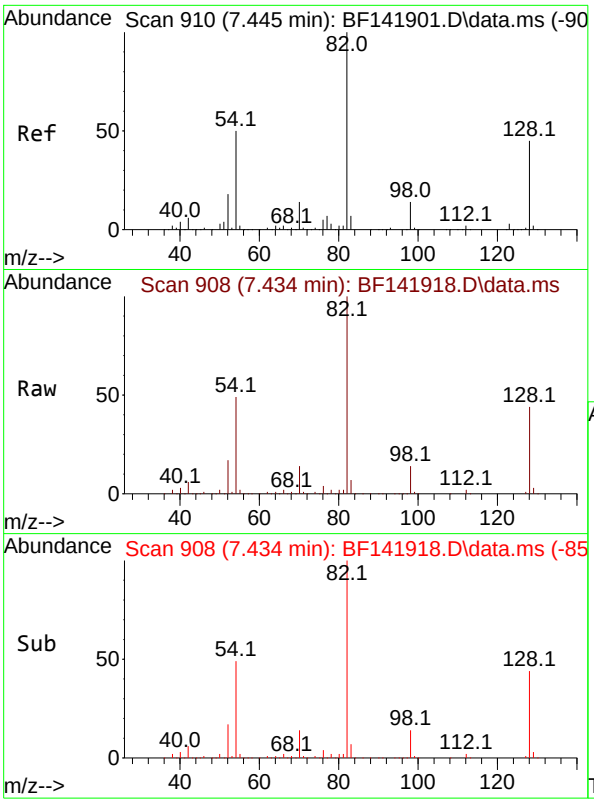


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1031
Delta R.T. -0.006 min
Lab File: BF141918.D
Acq: 11 Mar 2025 16:12

Tgt Ion:136 Resp: 586367

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.8	13.2
54	6.9	5.8	8.8
68	4.9	4.1	6.1

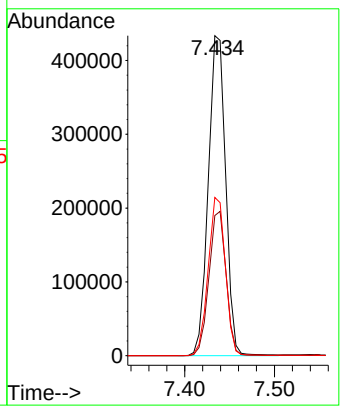




#23
Nitrobenzene-d5
Concen: 55.892 ng
RT: 7.434 min Scan# 9(
Delta R.T. -0.012 min
Lab File: BF141918.D
Acq: 11 Mar 2025 16:12

Tgt Ion: 82 Resp: 58236(

Ion	Ratio	Lower	Upper
82	100		
128	43.8	36.0	54.0
54	49.4	39.6	59.4



Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

Manual Integrations
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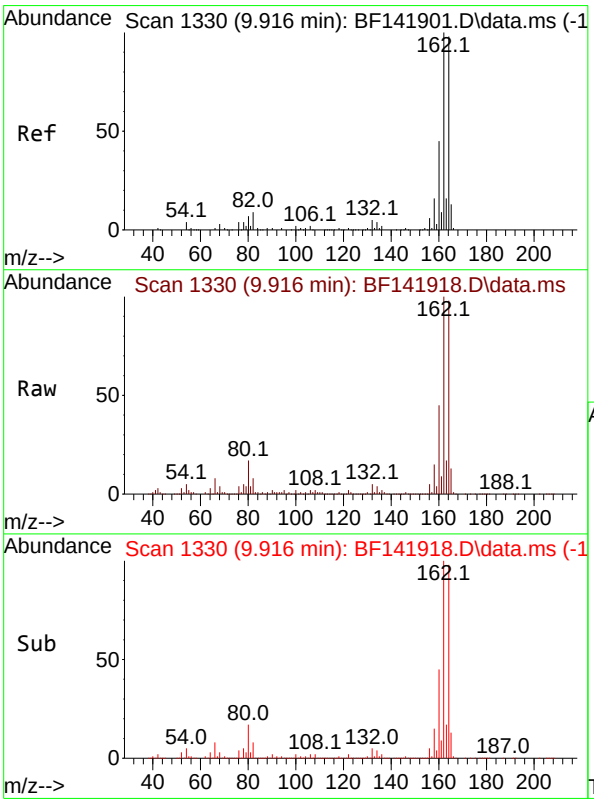
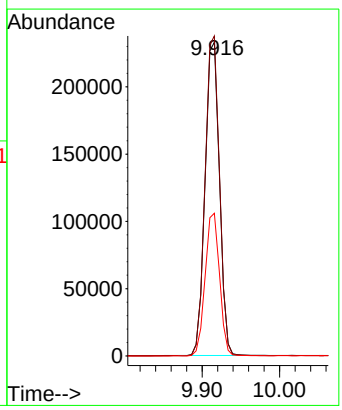
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025

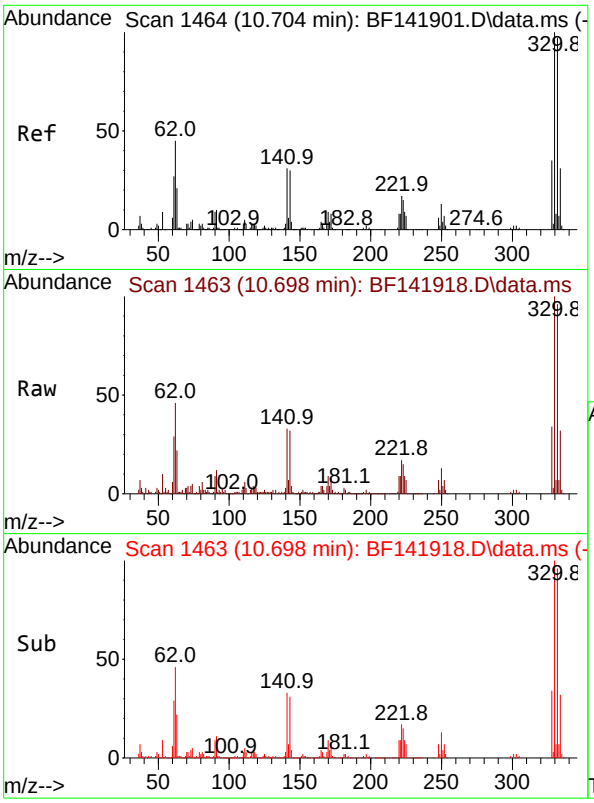


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.916 min Scan# 1330
Delta R.T. -0.000 min
Lab File: BF141918.D
Acq: 11 Mar 2025 16:12

Tgt Ion:164 Resp: 300301

Ion	Ratio	Lower	Upper
164	100		
162	102.0	81.8	122.6
160	45.5	36.7	55.1

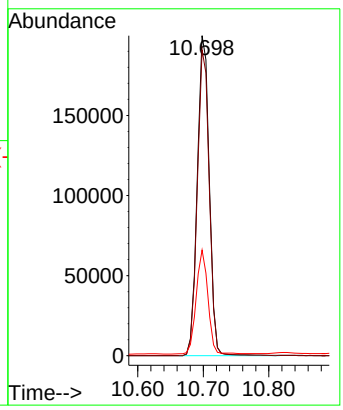




#42
2,4,6-Tribromophenol
Concen: 66.862 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141918.D
Acq: 11 Mar 2025 16:12

Tgt Ion:330 Resp: 25472(

Ion	Ratio	Lower	Upper
330	100		
332	95.3	77.6	116.4
141	31.8	24.7	37.1



Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

Manual Integrations
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Reviewed By :Anahy Claudio 03/12/2025
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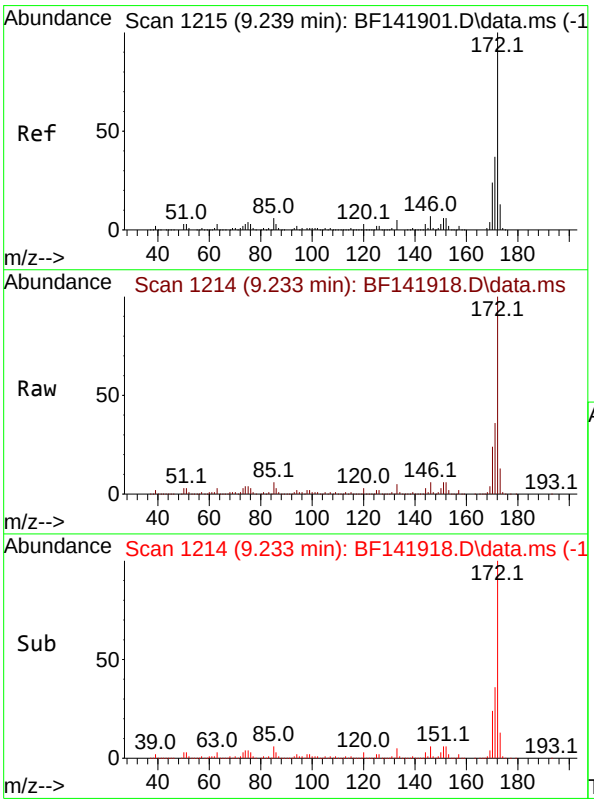
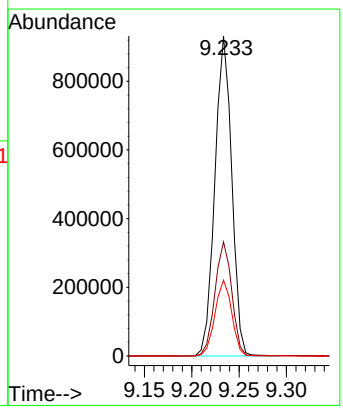
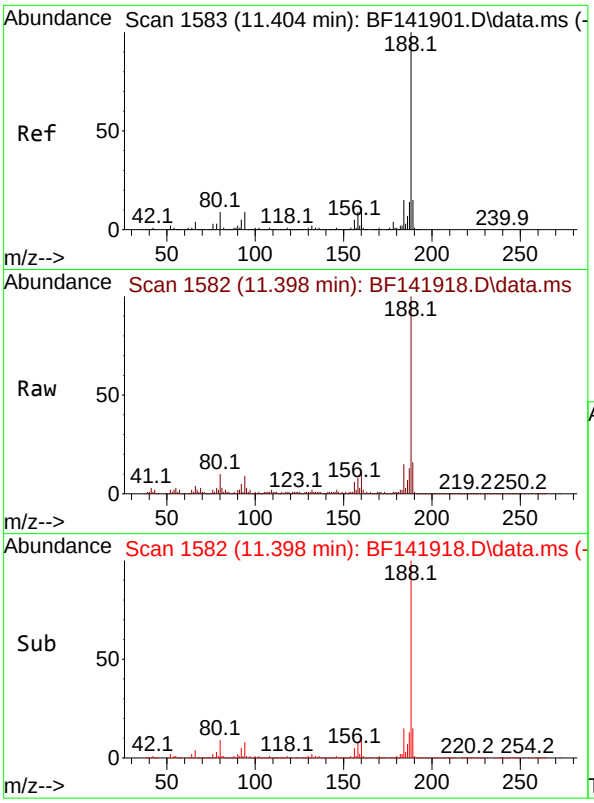


#45
2-Fluorobiphenyl
Concen: 58.617 ng
RT: 9.233 min Scan# 1214
Delta R.T. -0.006 min
Lab File: BF141918.D
Acq: 11 Mar 2025 16:12

Tgt Ion:172 Resp: 1157452

Ion	Ratio	Lower	Upper
172	100		
171	35.6	29.3	43.9
170	23.7	19.4	29.0

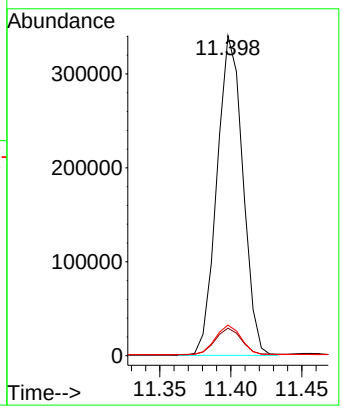




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141918.D
Acq: 11 Mar 2025 16:12

Tgt Ion:188 Resp: 43130

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.8	10.2
80	9.5	7.6	11.4



Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

Manual Integrations
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Reviewed By :Anahy Claudio 03/12/2025
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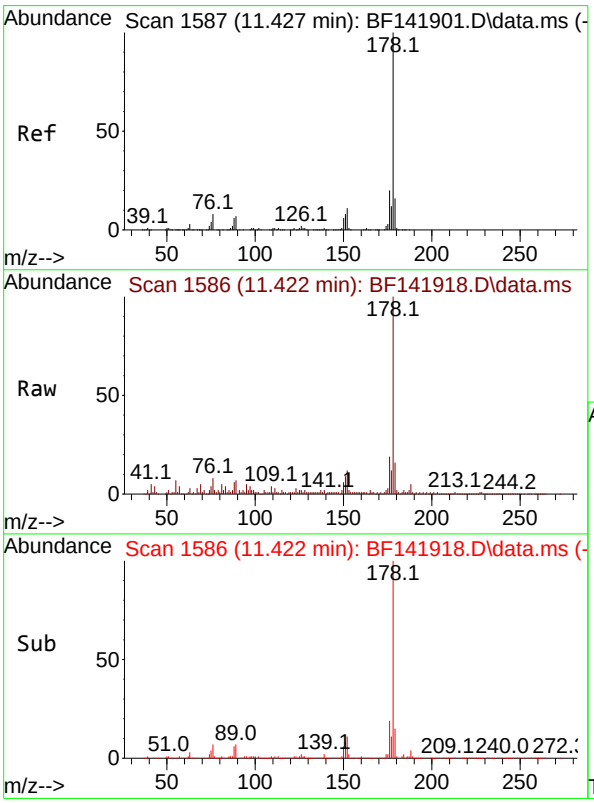
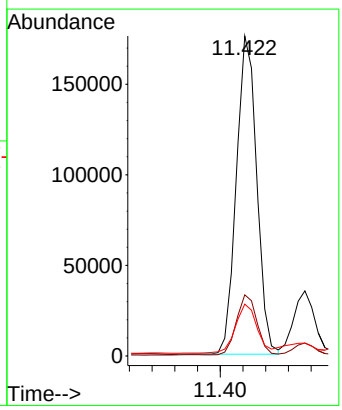
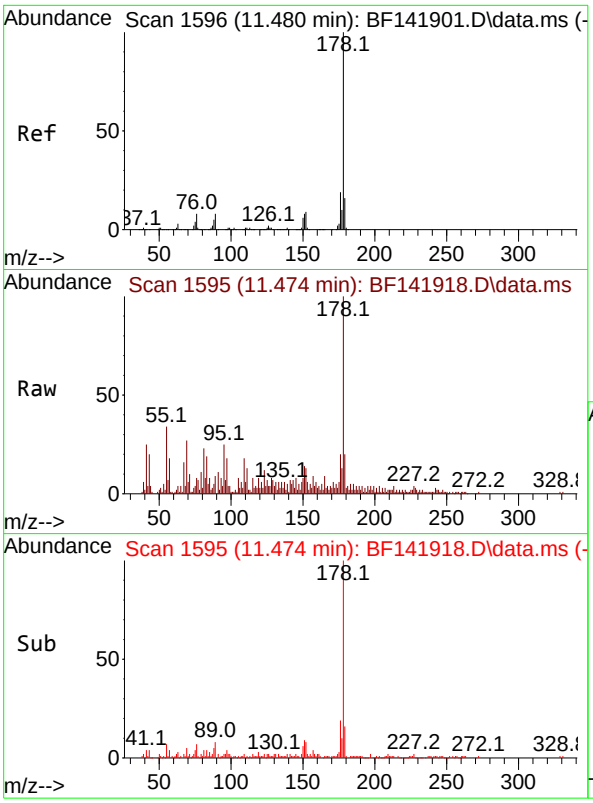


#71
Phenanthrene
Concen: 9.414 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.006 min
Lab File: BF141918.D
Acq: 11 Mar 2025 16:12

Tgt Ion:178 Resp: 219318

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.8	23.8
179	16.2	12.6	19.0

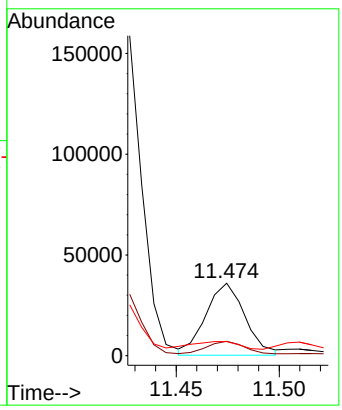




#72
Anthracene
Concen: 2.021 ng m
RT: 11.474 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141918.D
Acq: 11 Mar 2025 16:12

Tgt Ion:178 Resp: 4723

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.1	22.7
179	19.5	12.6	19.0



Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

Manual Integrations
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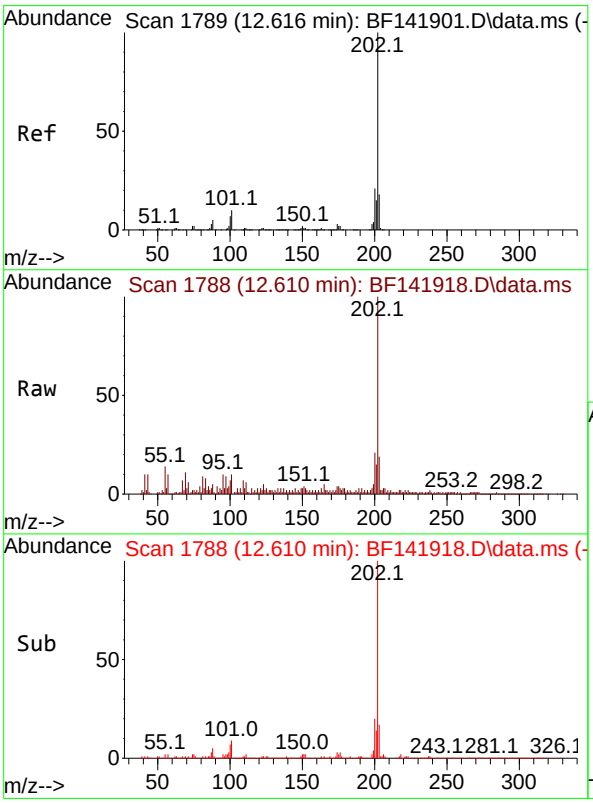
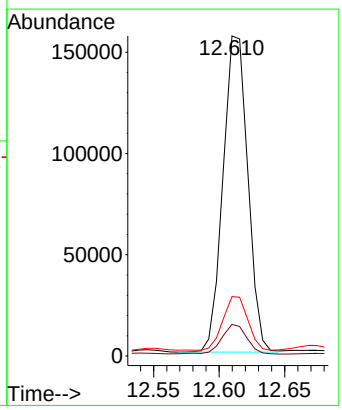
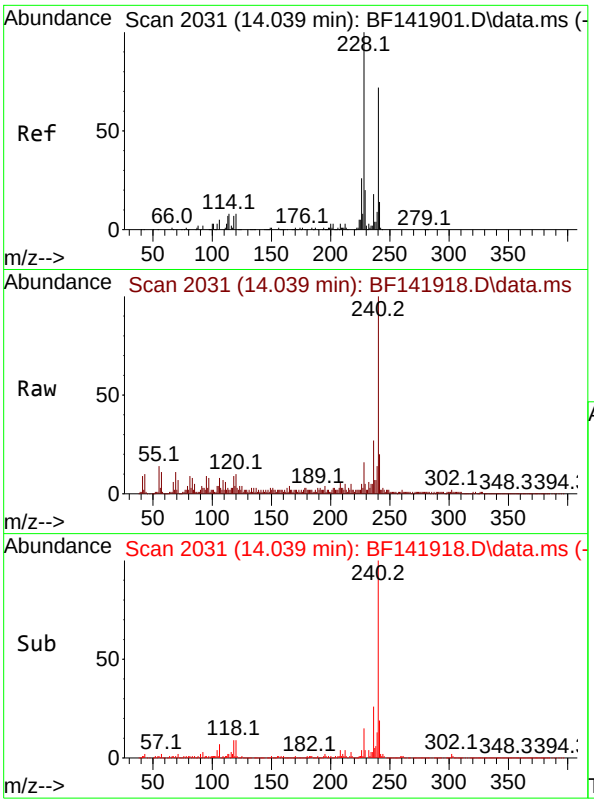


#75
Fluoranthene
Concen: 8.322 ng
RT: 12.610 min Scan# 1788
Delta R.T. -0.006 min
Lab File: BF141918.D
Acq: 11 Mar 2025 16:12

Tgt Ion:202 Resp: 205658

Ion	Ratio	Lower	Upper
202	100		
101	9.9	0.0	29.7
203	18.5	0.0	37.8

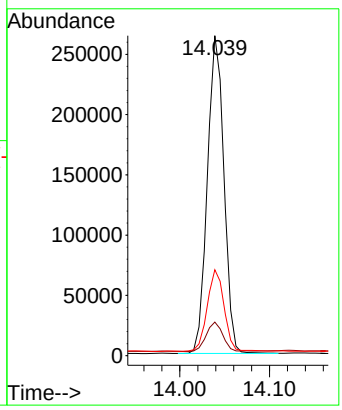




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.039 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF141918.D
Acq: 11 Mar 2025 16:12

Tgt Ion:240 Resp: 33834

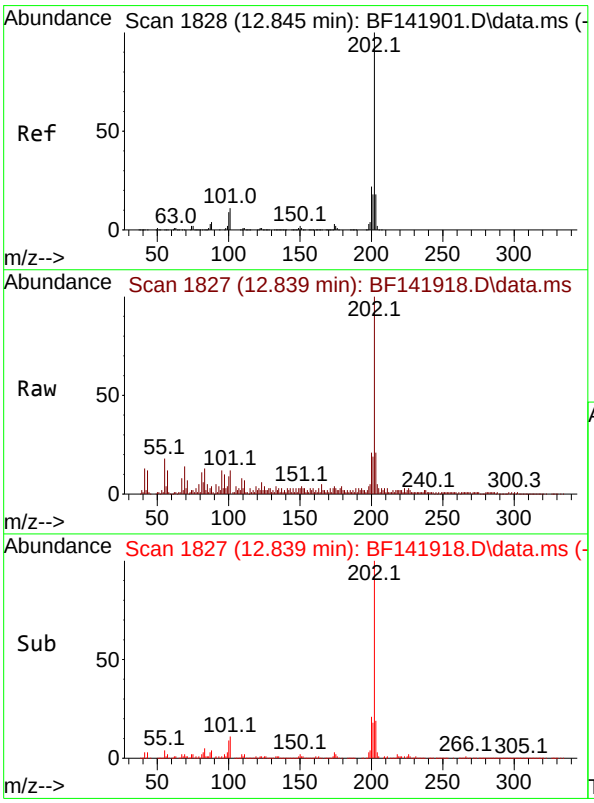
Ion	Ratio	Lower	Upper
240	100		
120	10.5	8.4	12.6
236	26.9	20.5	30.7



Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

Manual Integrations
APPROVED

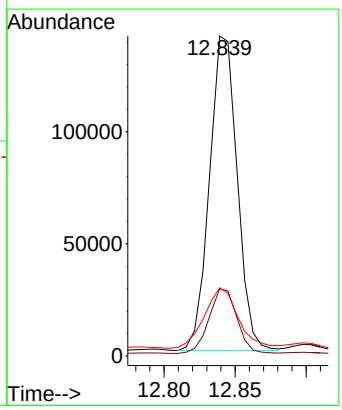
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025

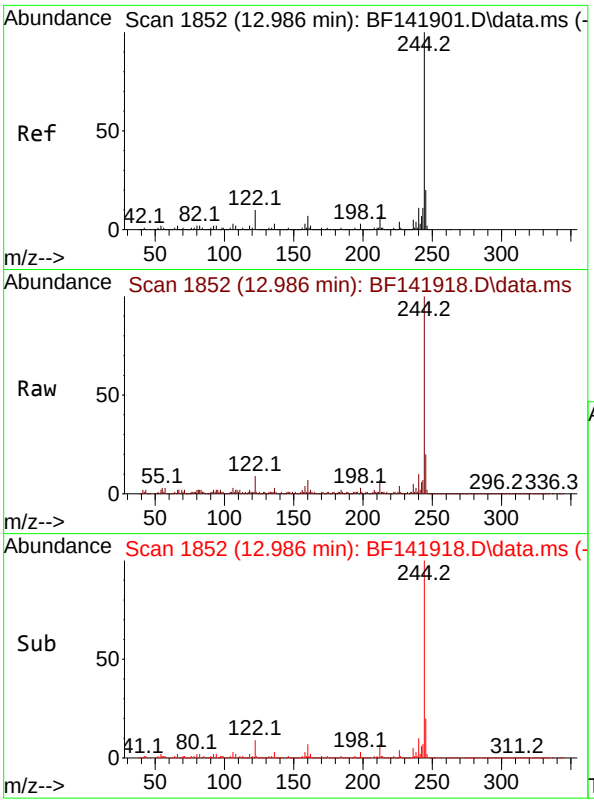


#78
Pyrene
Concen: 6.519 ng
RT: 12.839 min Scan# 1827
Delta R.T. -0.006 min
Lab File: BF141918.D
Acq: 11 Mar 2025 16:12

Tgt Ion:202 Resp: 190783

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.3	25.9
203	21.3	14.4	21.6

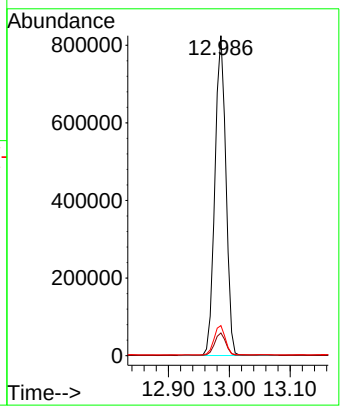




#79
Terphenyl-d14
Concen: 44.982 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF141918.D
Acq: 11 Mar 2025 16:12

Tgt Ion:244 Resp: 102942

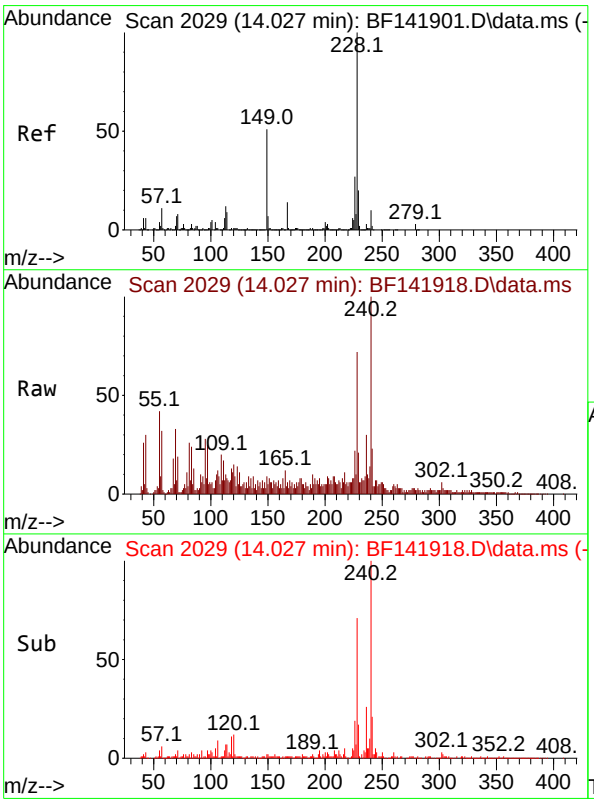
Ion	Ratio	Lower	Upper
244	100		
212	7.1	6.0	9.0
122	9.4	7.7	11.5



Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

Manual Integrations
APPROVED

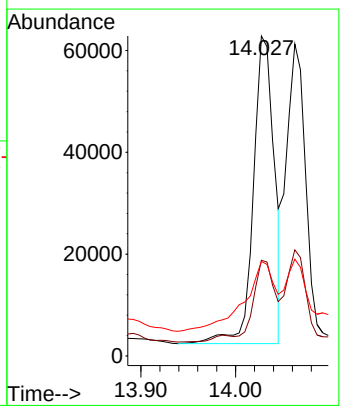
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025

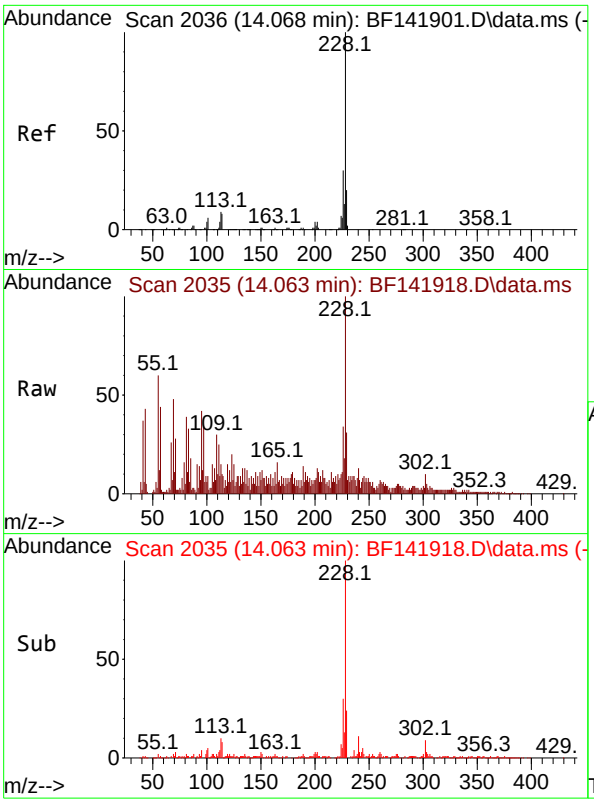


#81
Benzo(a)anthracene
Concen: 4.156 ng
RT: 14.027 min Scan# 2029
Delta R.T. 0.000 min
Lab File: BF141918.D
Acq: 11 Mar 2025 16:12

Tgt Ion:228 Resp: 92270

Ion	Ratio	Lower	Upper
228	100		
226	29.9	21.8	32.8
229	29.5	16.0	24.0#

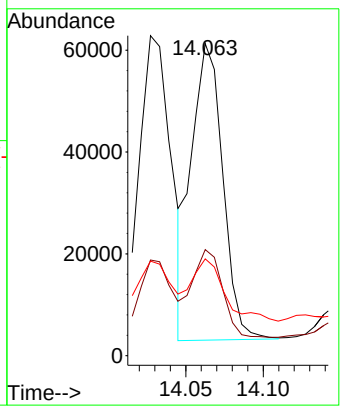




#83
Chrysene
Concen: 4.076 ng
RT: 14.063 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141918.D
Acq: 11 Mar 2025 16:12

Tgt Ion:228 Resp: 8202

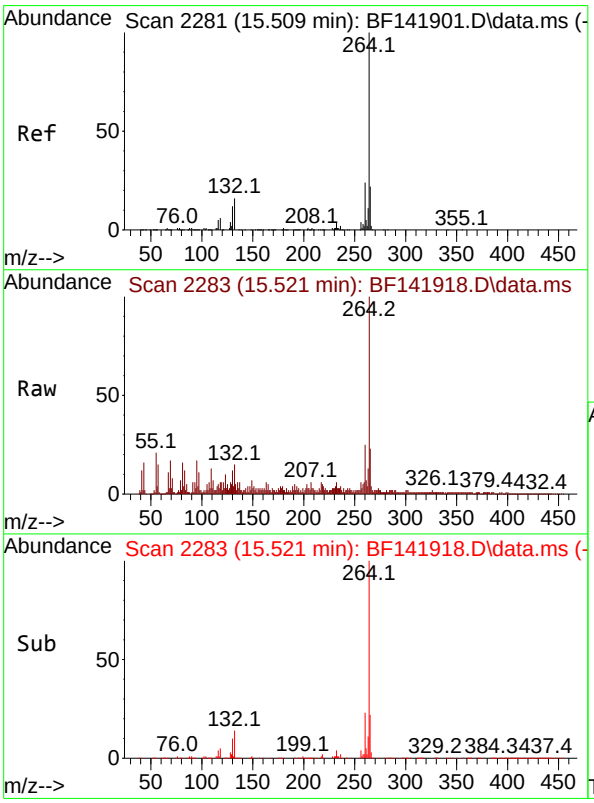
Ion	Ratio	Lower	Upper
228	100		
226	34.0	24.1	36.1
229	31.0	15.7	23.5



Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

Manual Integrations
APPROVED

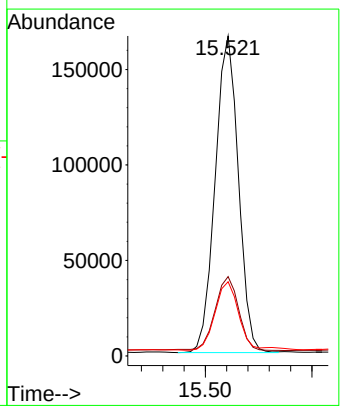
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025

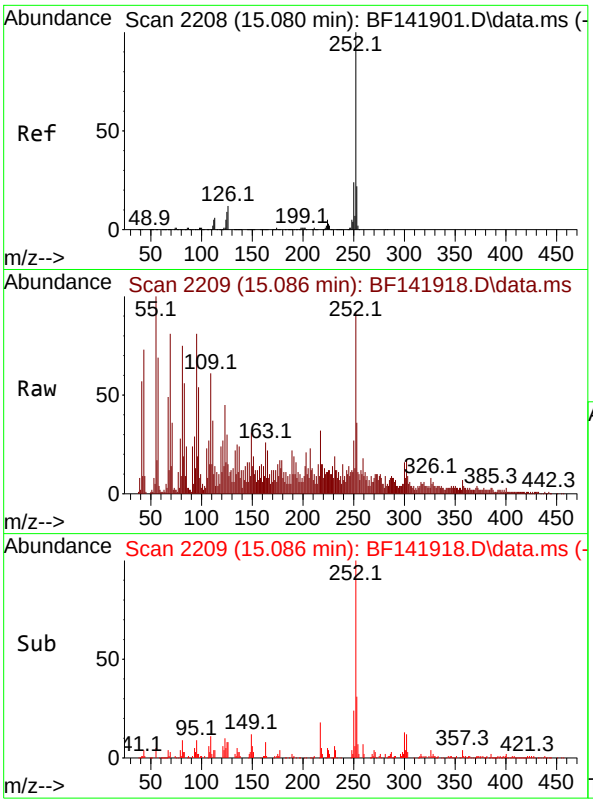


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.521 min Scan# 2283
Delta R.T. 0.012 min
Lab File: BF141918.D
Acq: 11 Mar 2025 16:12

Tgt Ion:264 Resp: 250489

Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.1	28.7
265	23.2	17.5	26.3

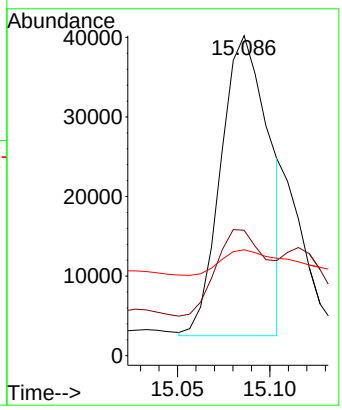




#88
Benzo(b)fluoranthene
Concen: 3.967 ng m
RT: 15.086 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF141918.D
Acq: 11 Mar 2025 16:12

Tgt Ion:252 Resp: 6810

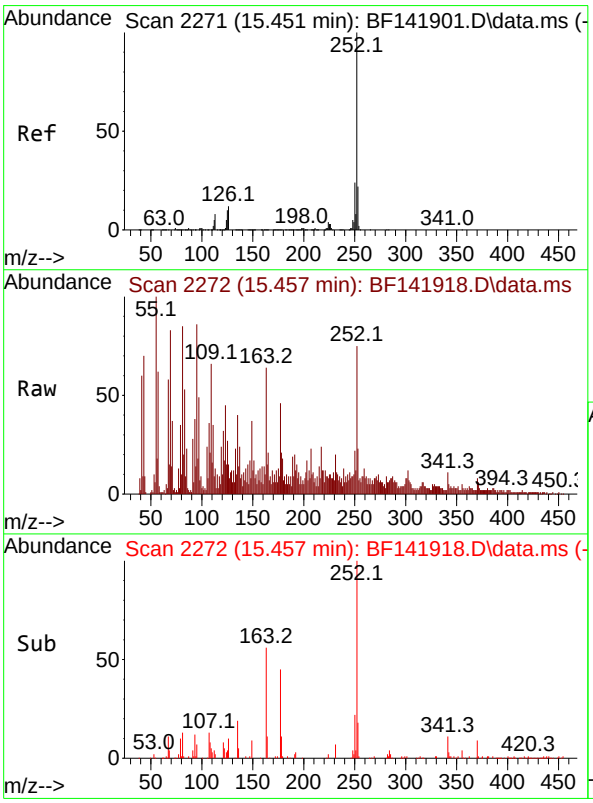
Ion	Ratio	Lower	Upper
252	100		
253	39.2	17.5	26.3#
125	33.1	7.0	10.4#



Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

Manual Integrations
APPROVED

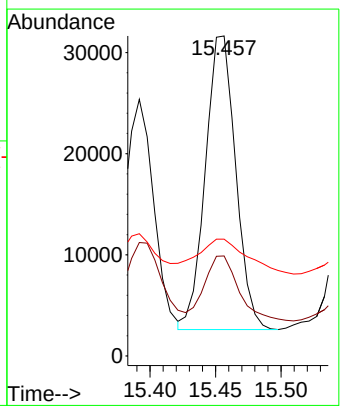
Reviewed By :Anahy Claudio 03/12/2025
Supervised By :Jagrut Upadhyay 03/12/2025



#90
Benzo(a)pyrene
Concen: 3.479 ng
RT: 15.457 min Scan# 2272
Delta R.T. 0.006 min
Lab File: BF141918.D
Acq: 11 Mar 2025 16:12

Tgt Ion:252 Resp: 46734

Ion	Ratio	Lower	Upper
252	100		
253	31.2	17.4	26.0#
125	36.5	7.8	11.8#



Sample Results: **BF141918.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141918.D
Acq On : 11 Mar 2025 16:12
Operator : RC/JU
Sample : Q1514-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141918.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.152	3	10	28	rVB	827564	1364182	40.26%	5.221%
2	5.493	572	578	583	rBV	1983274	2598200	76.68%	9.944%
3	6.498	742	749	761	rBV	1898797	2588246	76.39%	9.905%
4	6.881	809	814	819	rBV	723035	900092	26.56%	3.445%
5	7.434	898	908	914	rBV	1266434	1712590	50.54%	6.554%
6	7.692	947	952	958	rVB	45801	60588	1.79%	0.232%
7	8.157	1026	1031	1050	rVB	904330	1213997	35.83%	4.646%
8	9.233	1208	1214	1219	rBV	2729029	3388387	100.00%	12.968%
9	9.310	1224	1227	1236	rVV6	17535	37102	1.09%	0.142%
10	9.916	1324	1330	1334	rBV	980245	1314184	38.78%	5.030%
11	9.945	1334	1335	1343	rVB	61847	61580	1.82%	0.236%
12	10.457	1419	1422	1429	rBV2	52761	82794	2.44%	0.317%
13	10.627	1446	1451	1455	rBV	351019	460753	13.60%	1.763%
14	10.698	1458	1463	1468	rBV	1476226	1854025	54.72%	7.096%
15	10.822	1480	1484	1492	rBV2	103331	181443	5.35%	0.694%
16	11.263	1556	1559	1562	rBV	99480	131939	3.89%	0.505%
17	11.292	1562	1564	1570	rVB	97821	125911	3.72%	0.482%
18	11.398	1578	1582	1585	rBV	855017	1222949	36.09%	4.680%
19	11.692	1629	1632	1636	rVB	154492	173624	5.12%	0.664%
20	11.922	1668	1671	1677	rVB2	404997	545663	16.10%	2.088%
21	12.098	1698	1701	1705	rVB	193850	221818	6.55%	0.849%
22	12.486	1764	1767	1773	rVB2	325416	488302	14.41%	1.869%
23	12.610	1785	1788	1794	rVB	308555	400857	11.83%	1.534%
24	12.845	1824	1828	1835	rVB2	304324	659078	19.45%	2.522%
25	12.986	1847	1852	1859	rVB	2145720	2799509	82.62%	10.714%
26	13.216	1889	1891	1896	rVB2	262396	309009	9.12%	1.183%
27	14.039	2027	2031	2039	rBV2	792491	1232660	36.38%	4.718%

Sum of corrected areas: 26129482

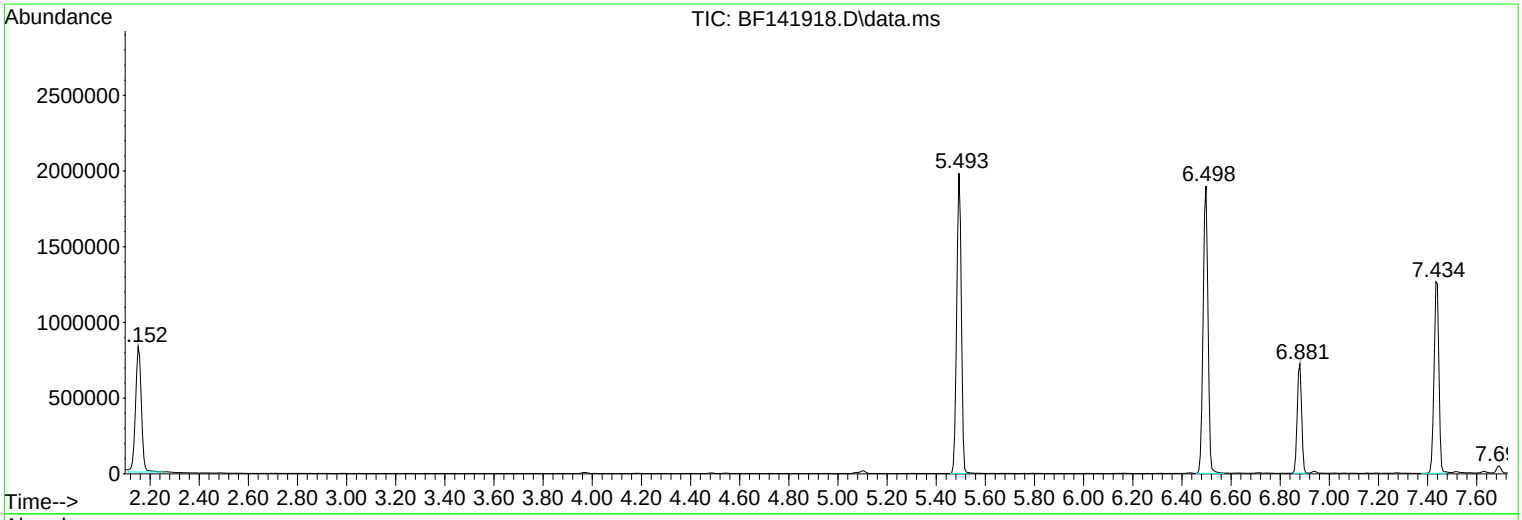
Sample Results: **BF141918.D**

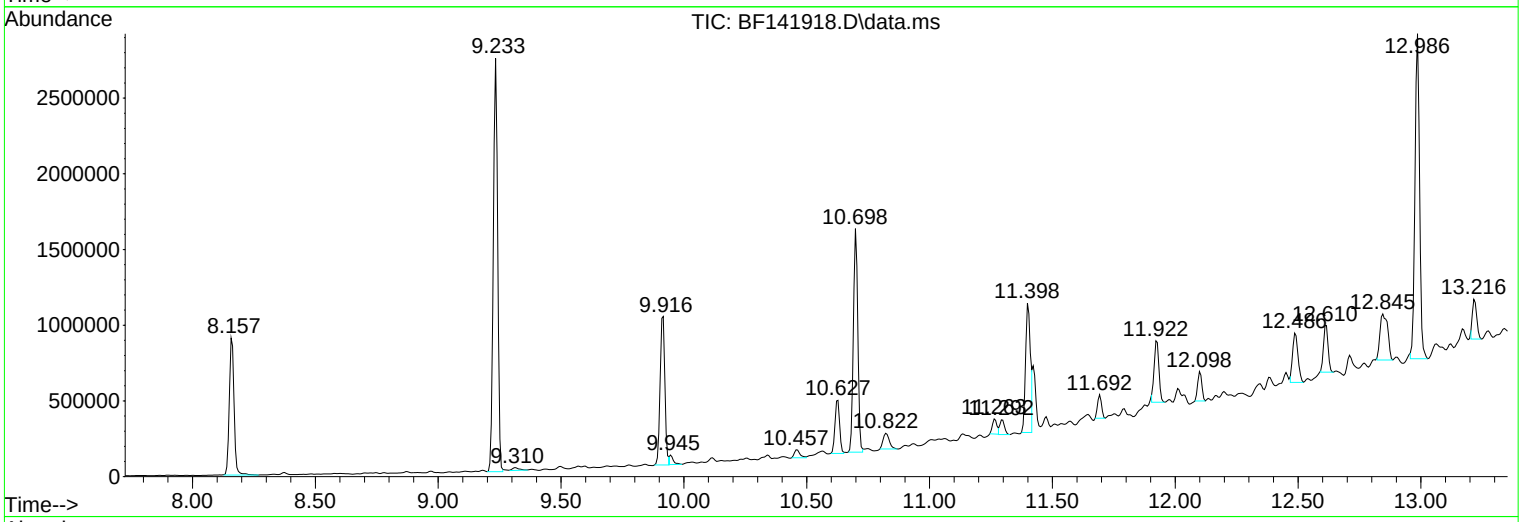
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141918.D
Acq On : 11 Mar 2025 16:12
Operator : RC/JU
Sample : Q1514-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

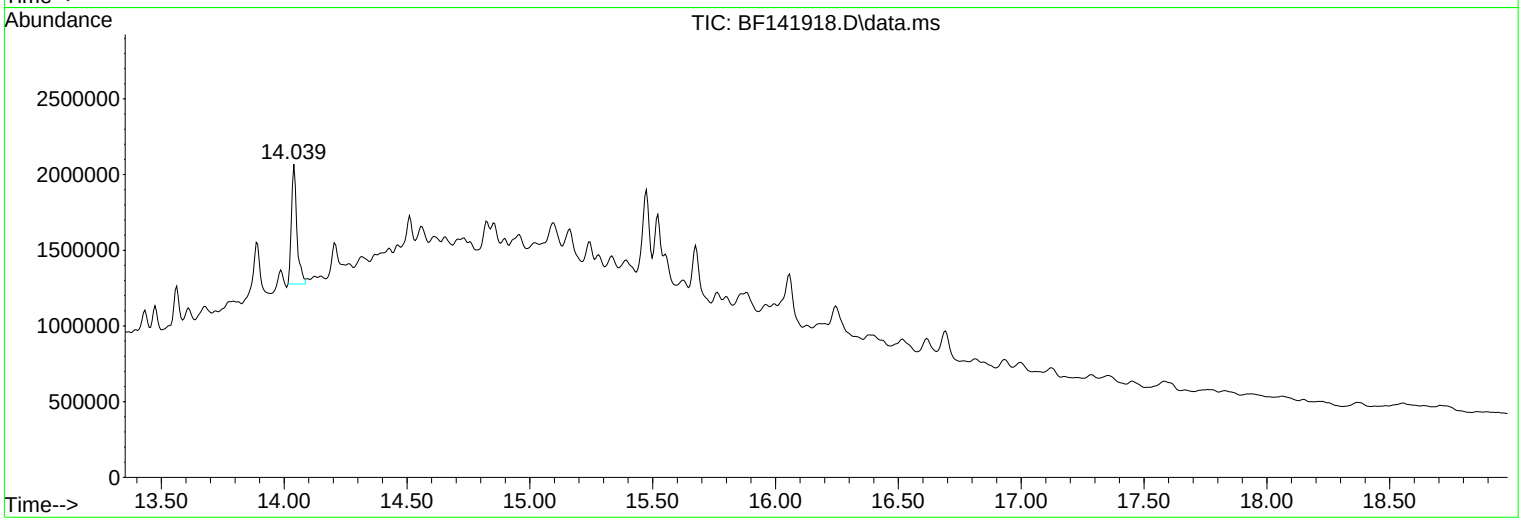
Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141918.D
Acq On : 11 Mar 2025 16:12
Operator : RC/JU
Sample : Q1514-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

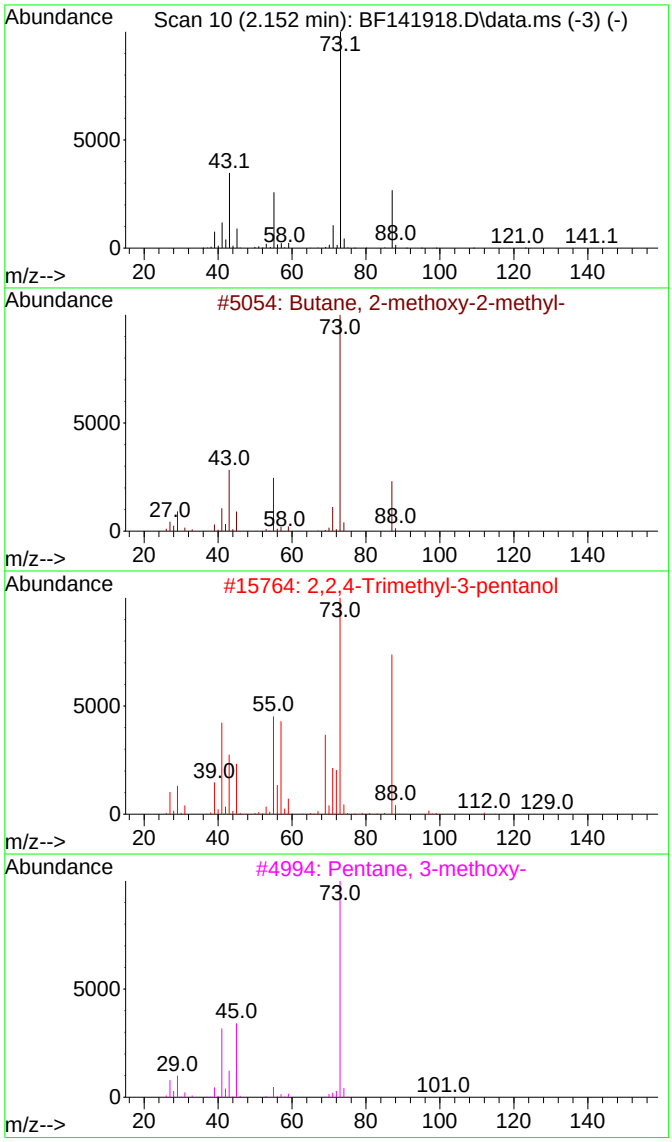
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

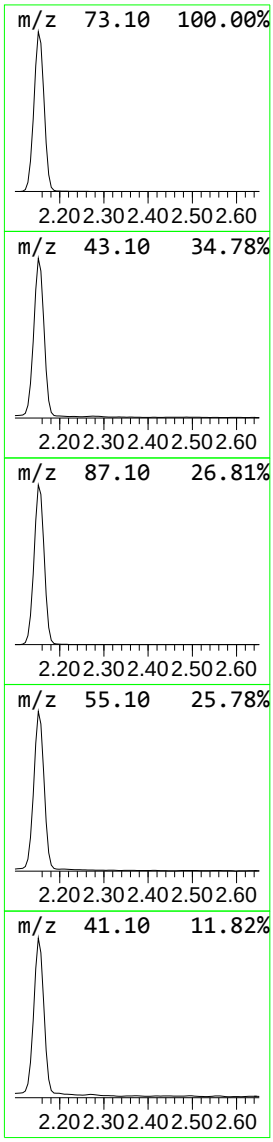
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.152	30.31 ng	1364180	1,4-Dichlorobenzene-d4	6.881

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	78
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23
4	Silane, tetramethyl-	88	C4H12Si	000075-76-3	17
5	N-Ethylformamide	73	C3H7NO	000627-45-2	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141918.D
Acq On : 11 Mar 2025 16:12
Operator : RC/JU
Sample : Q1514-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

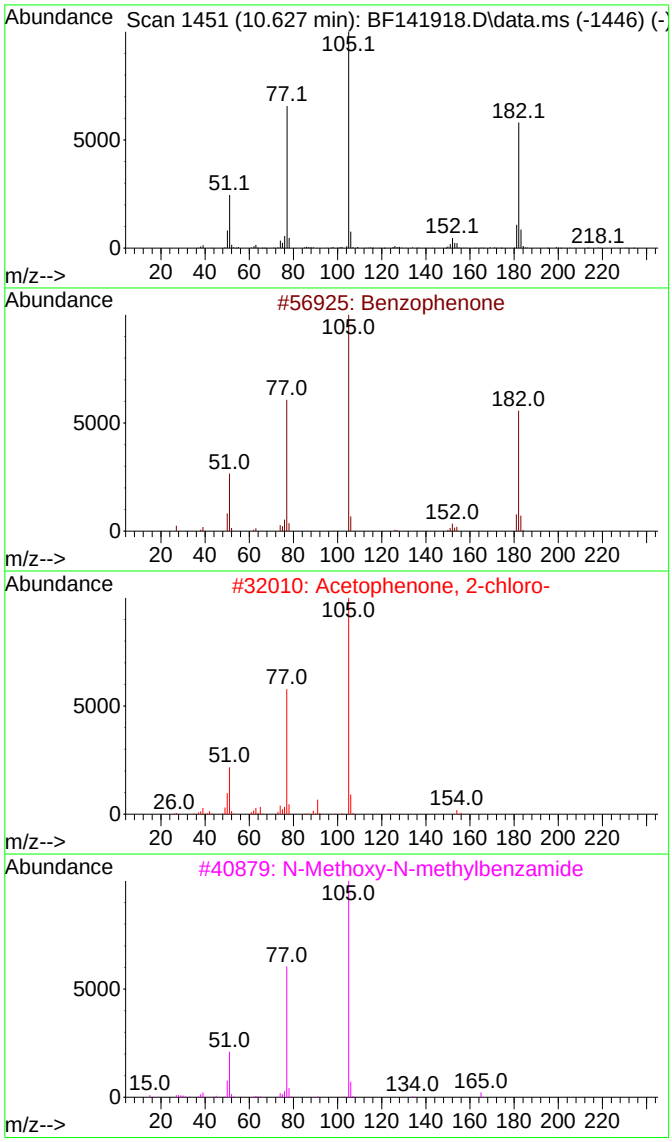
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

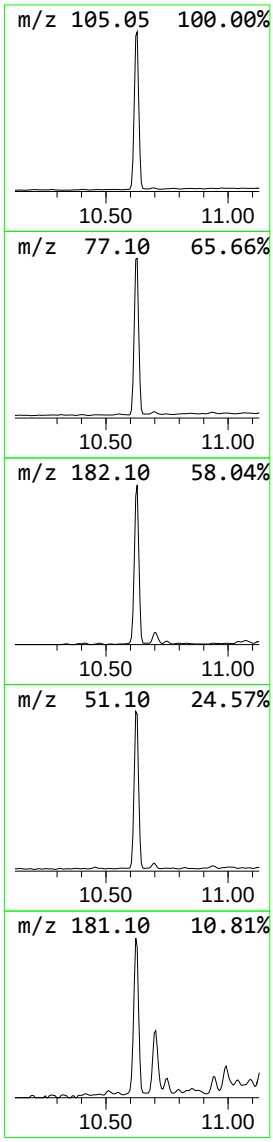
****

Peak Number 2 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.628	7.01 ng	460753	Acenaphthene-d10	9.916

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
3	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	49
4	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	49
5	1,2-Propanedione, 1-phenyl-	148	C9H8O2	000579-07-7	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141918.D
Acq On : 11 Mar 2025 16:12
Operator : RC/JU
Sample : Q1514-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

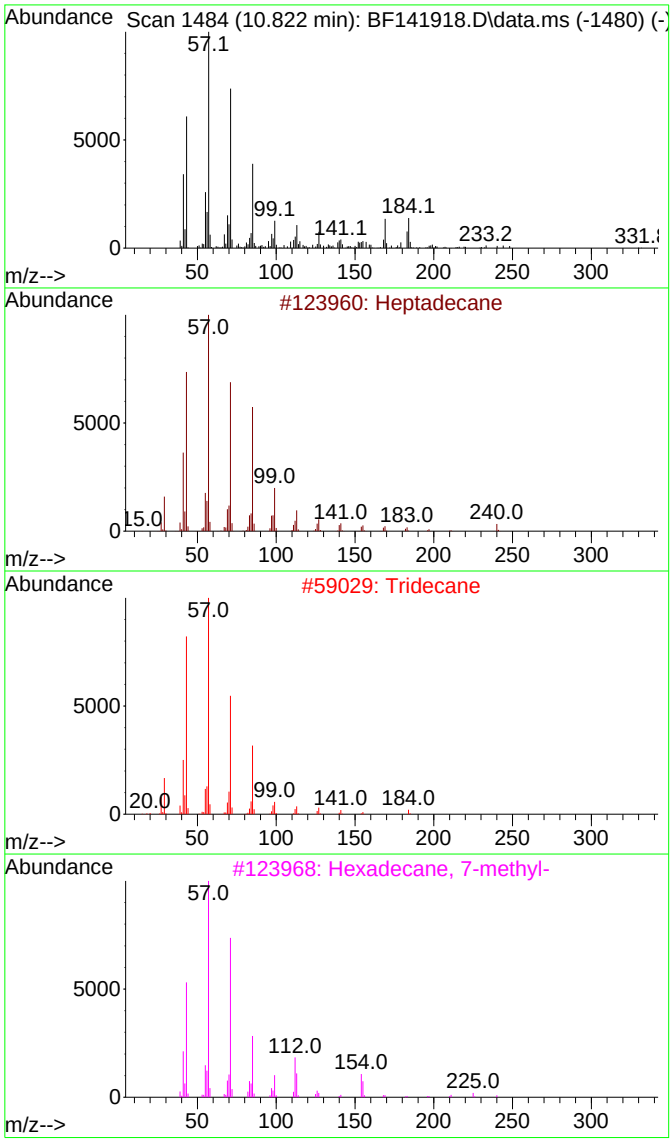
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

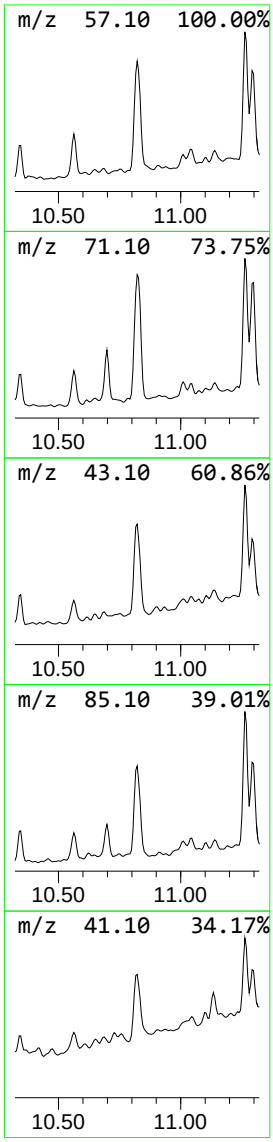
****

Peak Number 3 Heptadecane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.822	2.97 ng	181443	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane	240	C17H36	000629-78-7	94
2	Tridecane	184	C13H28	000629-50-5	87
3	Hexadecane, 7-methyl-	240	C17H36	026730-20-1	87
4	Dodecane	170	C12H26	000112-40-3	87
5	2-Bromo dodecane	248	C12H25Br	013187-99-0	87





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141918.D
Acq On : 11 Mar 2025 16:12
Operator : RC/JU
Sample : Q1514-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

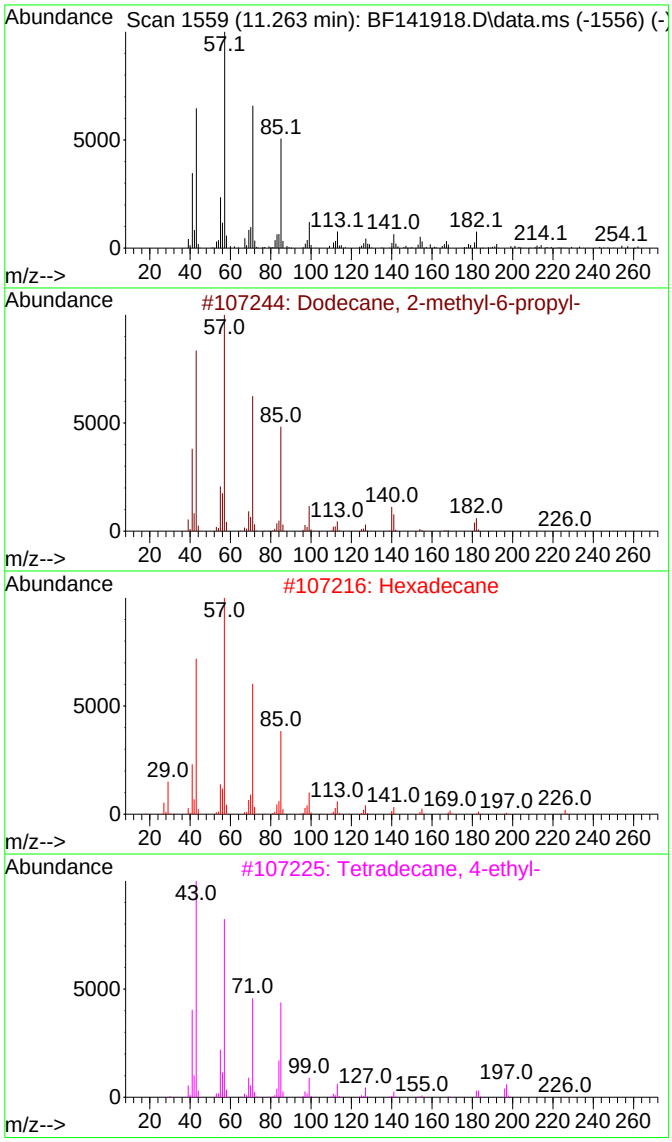
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

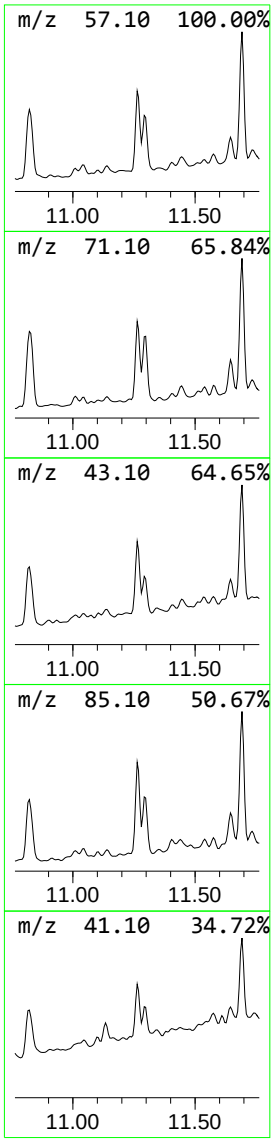
****

Peak Number 4 Dodecane, 2-methyl-6-propyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.263	2.16 ng	131939	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	91
2	Hexadecane	226	C16H34	000544-76-3	87
3	Tetradecane, 4-ethyl-	226	C16H34	055045-14-2	83
4	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	83
5	Tetradecane	198	C14H30	000629-59-4	80





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141918.D
Acq On : 11 Mar 2025 16:12
Operator : RC/JU
Sample : Q1514-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

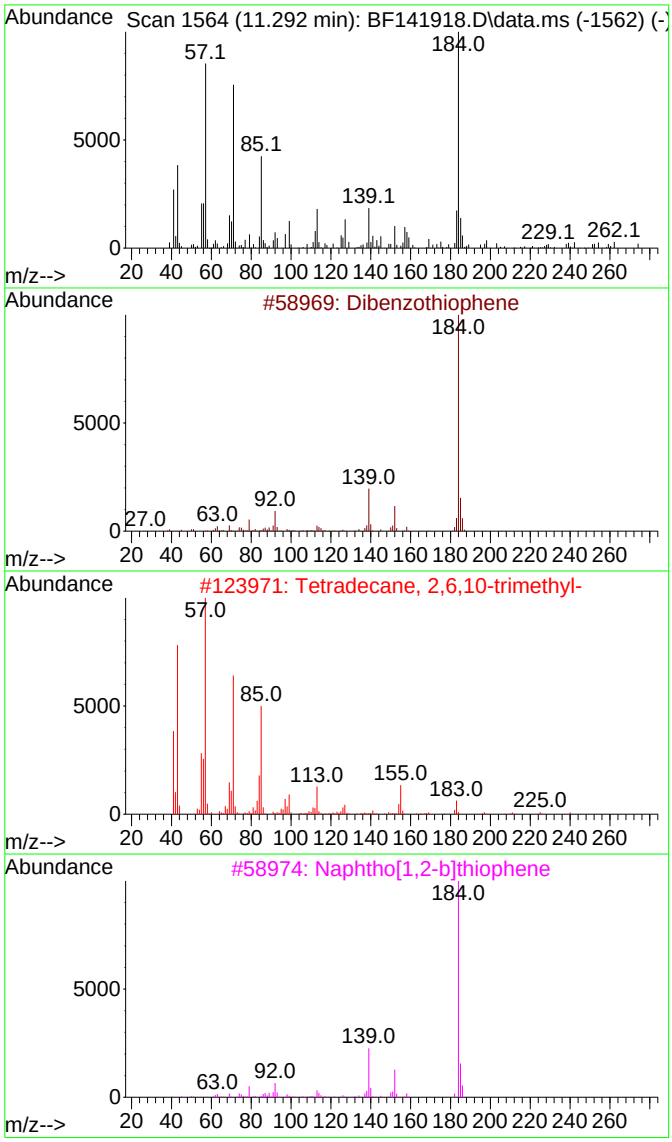
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

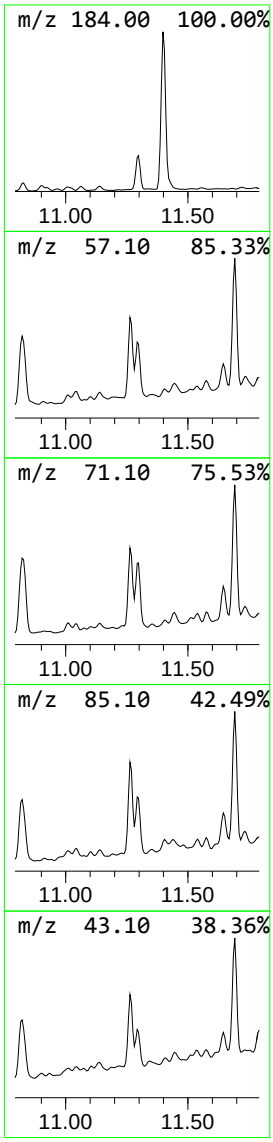
****

Peak Number 5 Dibenzothiophene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.292	2.06 ng	125911	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dibenzothiophene	184	C12H8S	000132-65-0	83
2	Tetradecane, 2,6,10-trimethyl-	240	C17H36	014905-56-7	46
3	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	46
4	Azuleno(2,1-b)thiophene	184	C12H8S	000248-13-5	46
5	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	46





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141918.D
Acq On : 11 Mar 2025 16:12
Operator : RC/JU
Sample : Q1514-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

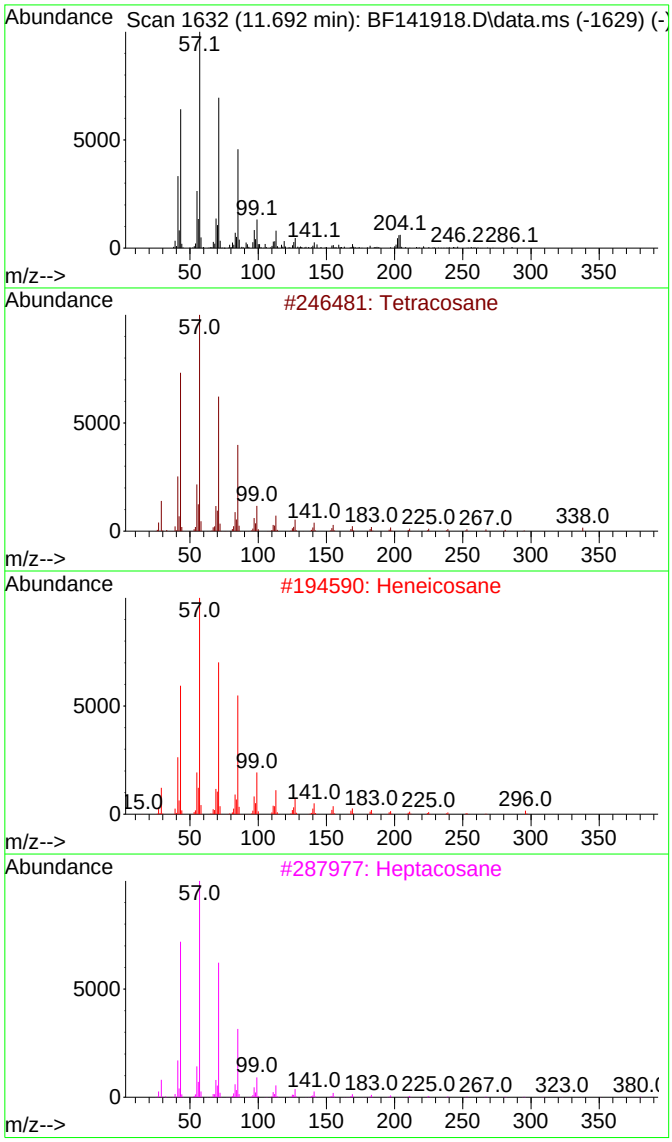
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

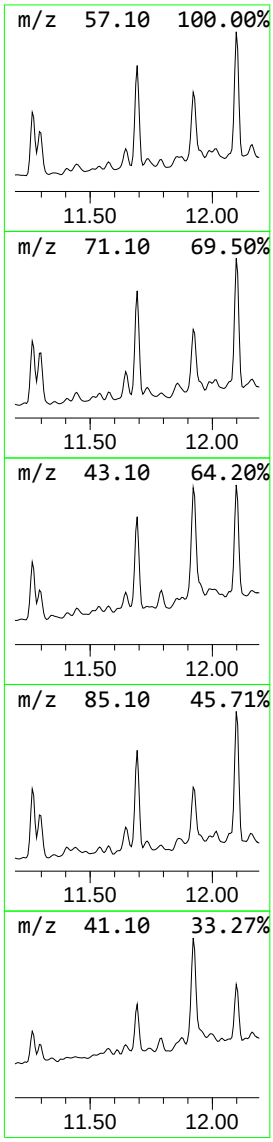
****

Peak Number 6 Tetracosane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.692	2.84 ng	173624	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosane	338	C24H50	000646-31-1	87
2	Heneicosane	296	C21H44	000629-94-7	87
3	Heptacosane	380	C27H56	000593-49-7	87
4	Octadecane	254	C18H38	000593-45-3	86
5	Heptadecane	240	C17H36	000629-78-7	86





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141918.D
Acq On : 11 Mar 2025 16:12
Operator : RC/JU
Sample : Q1514-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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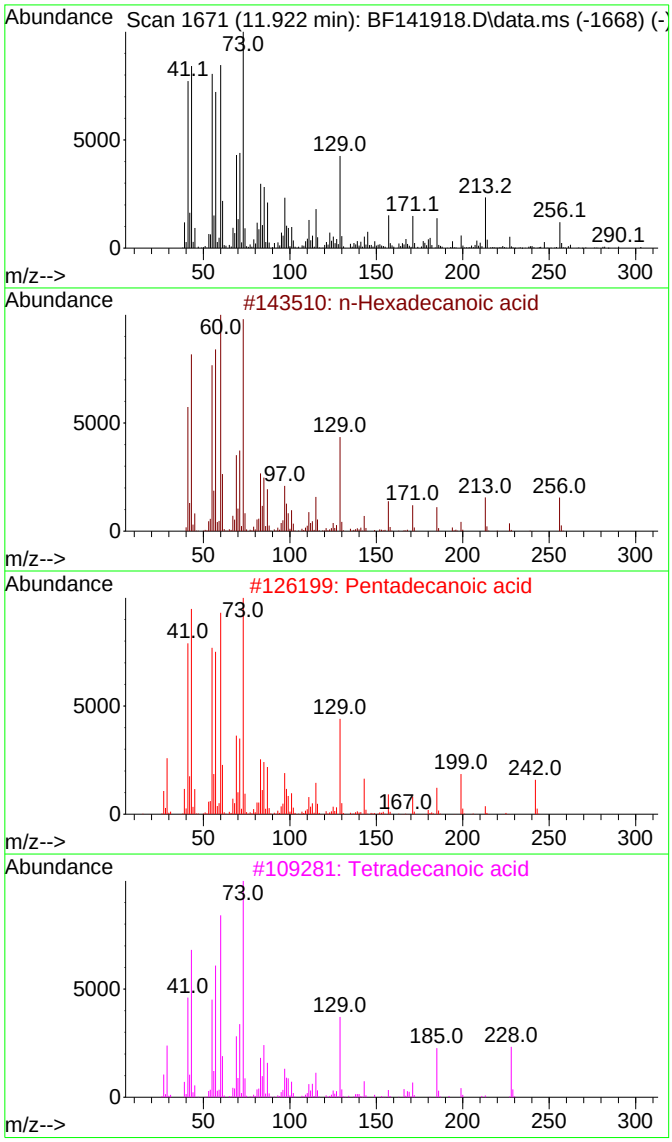
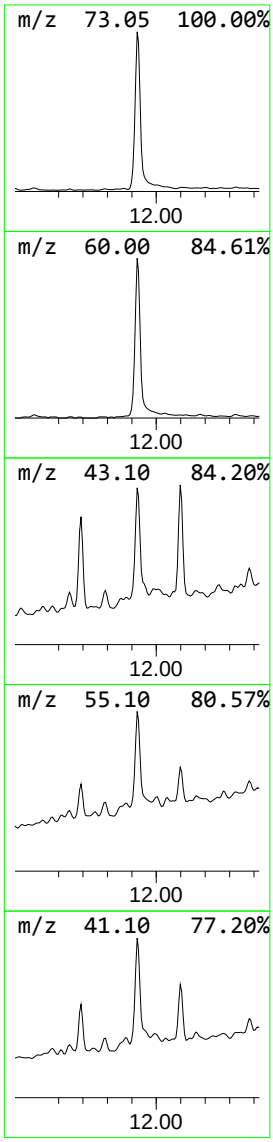
Peak Number 7 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.922	8.92 ng	545663	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	87
4	Octadecanoic acid	284	C18H36O2	000057-11-4	87
5	Tridecanoic acid	214	C13H26O2	000638-53-9	86





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141918.D
Acq On : 11 Mar 2025 16:12
Operator : RC/JU
Sample : Q1514-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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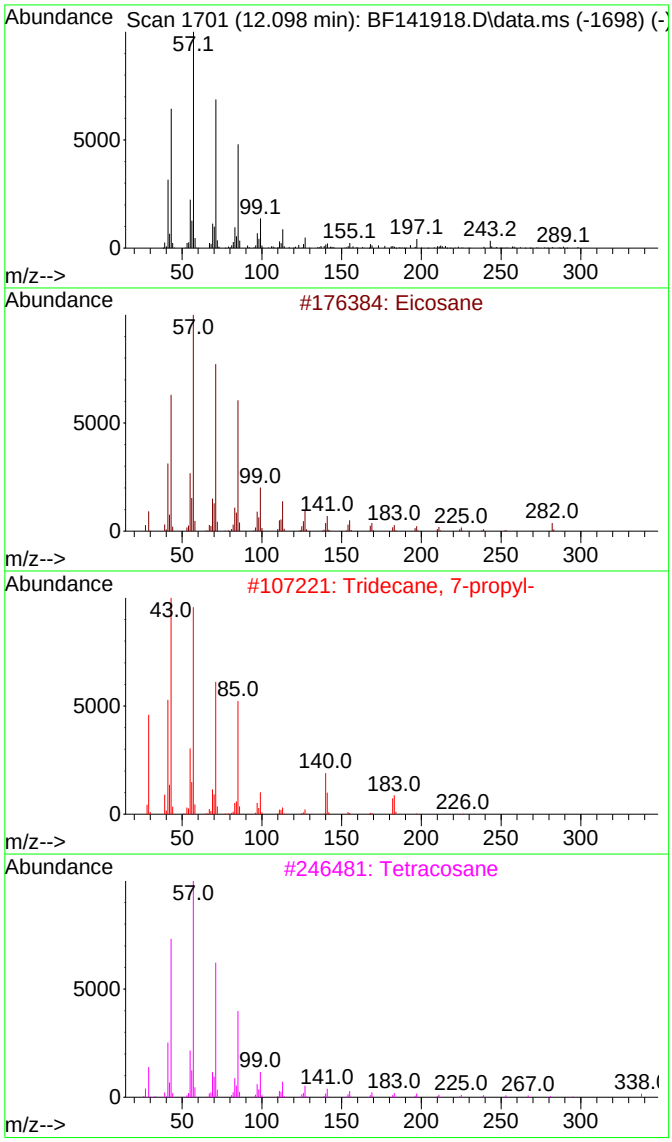
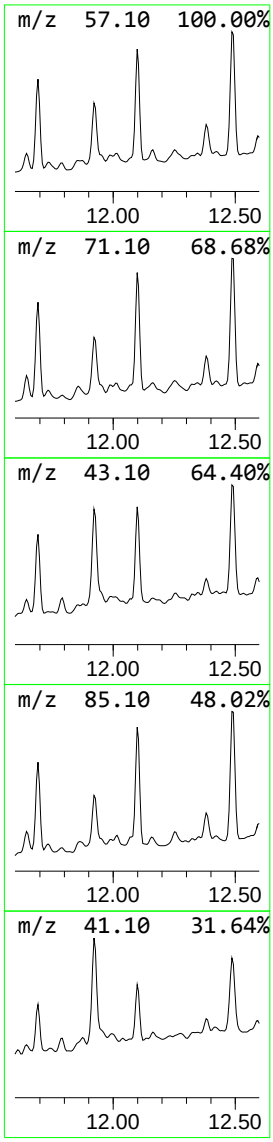
Peak Number 8 Eicosane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.098	3.63 ng	221818	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	95
2	Tridecane, 7-propyl-	226	C16H34	055045-09-5	90
3	Tetracosane	338	C24H50	000646-31-1	87
4	Tridecane, 6-propyl-	226	C16H34	055045-10-8	87
5	2-Bromo dodecane	248	C12H25Br	013187-99-0	86





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141918.D
Acq On : 11 Mar 2025 16:12
Operator : RC/JU
Sample : Q1514-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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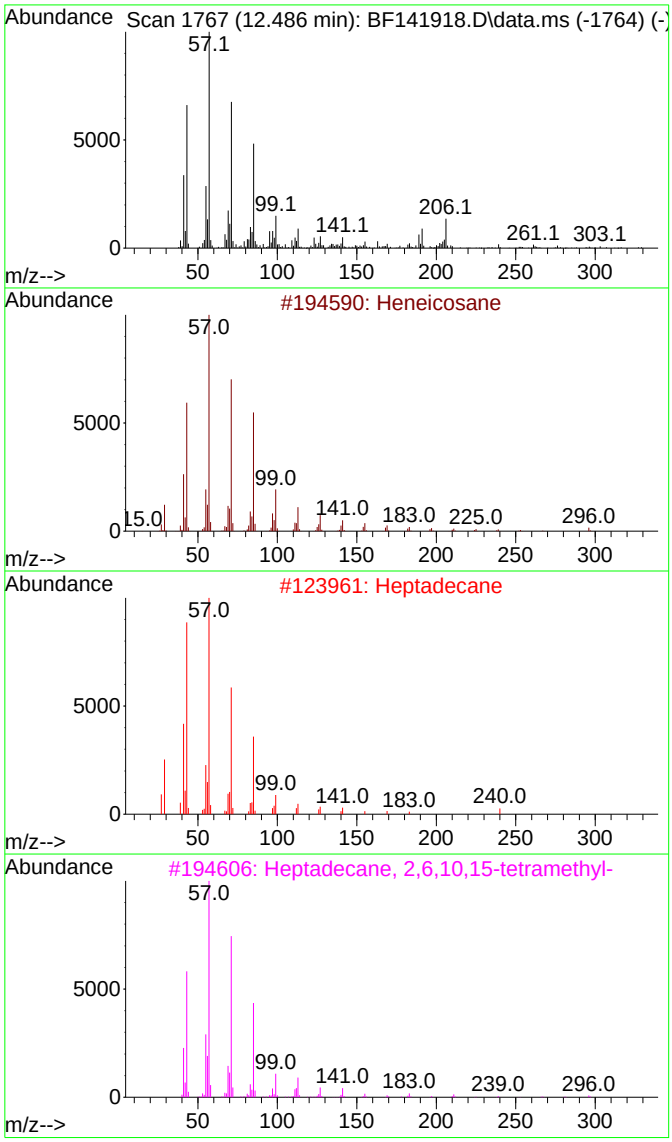
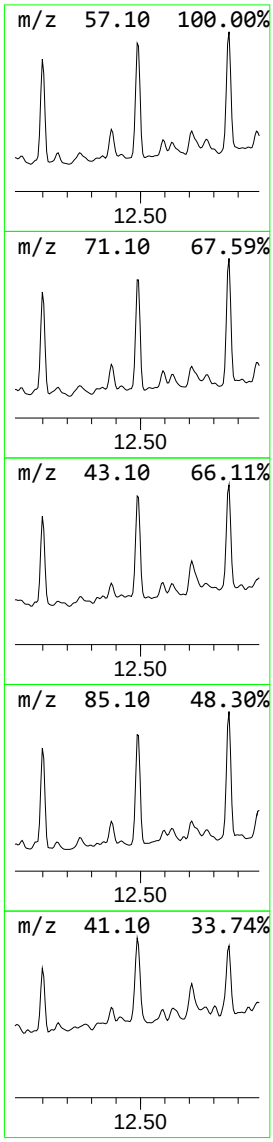
Peak Number 9 Heneicosane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.486	7.99 ng	488302	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	96
2	Heptadecane	240	C17H36	000629-78-7	95
3	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	91
4	Eicosane	282	C20H42	000112-95-8	76
5	Hexacosane	366	C26H54	000630-01-3	76





Sample Results: **BF141918.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141918.D
Acq On : 11 Mar 2025 16:12
Operator : RC/JU
Sample : Q1514-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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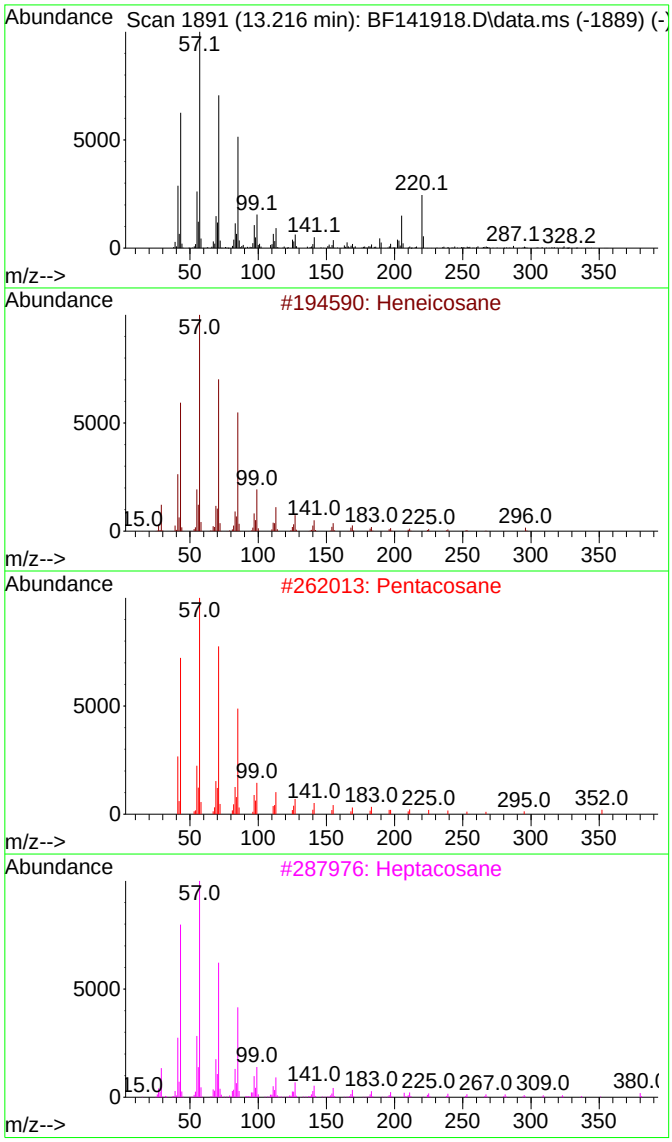
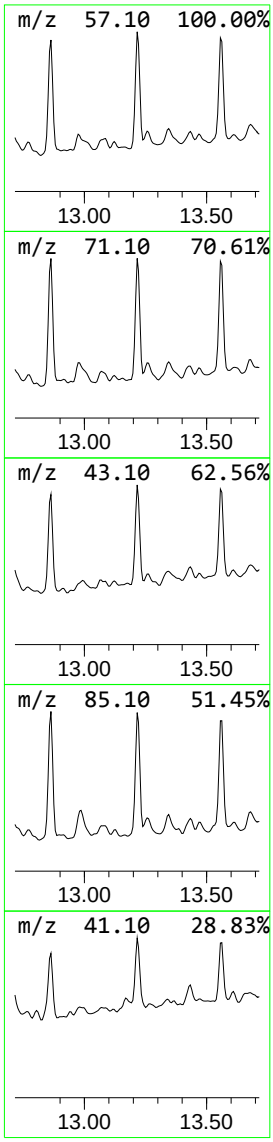
Peak Number 10 Pentacosane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.216	5.01 ng	309009	Chrysene-d12	14.039

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	98
2	Pentacosane	352	C25H52	000629-99-2	76
3	Heptacosane	380	C27H56	000593-49-7	76
4	Heptadecane	240	C17H36	000629-78-7	76
5	Hexacosane	366	C26H54	000630-01-3	76





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141918.D
Acq On : 11 Mar 2025 16:12
Operator : RC/JU
Sample : Q1514-01
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-105-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.152	30.3	ng	1364180	1	6.881	900092	20.0
Benzophenone	10.628	7.0	ng	460753	3	9.916	1314180	20.0
Heptadecane	10.822	3.0	ng	181443	4	11.398	1222950	20.0
Dodecane, 2-met...	11.263	2.2	ng	131939	4	11.398	1222950	20.0
Dibenzothiophene	11.292	2.1	ng	125911	4	11.398	1222950	20.0
Tetracosane	11.692	2.8	ng	173624	4	11.398	1222950	20.0
n-Hexadecanoic ...	11.922	8.9	ng	545663	4	11.398	1222950	20.0
Eicosane	12.098	3.6	ng	221818	4	11.398	1222950	20.0
Heneicosane	12.486	8.0	ng	488302	4	11.398	1222950	20.0
Pentacosane	13.216	5.0	ng	309009	5	14.039	1232660	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064065.D
Acq On : 7 Mar 2025 19:01
Operator : RC/JU
Sample : Q1514-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-105-SB02

Quant Time: Mar 07 22:56:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

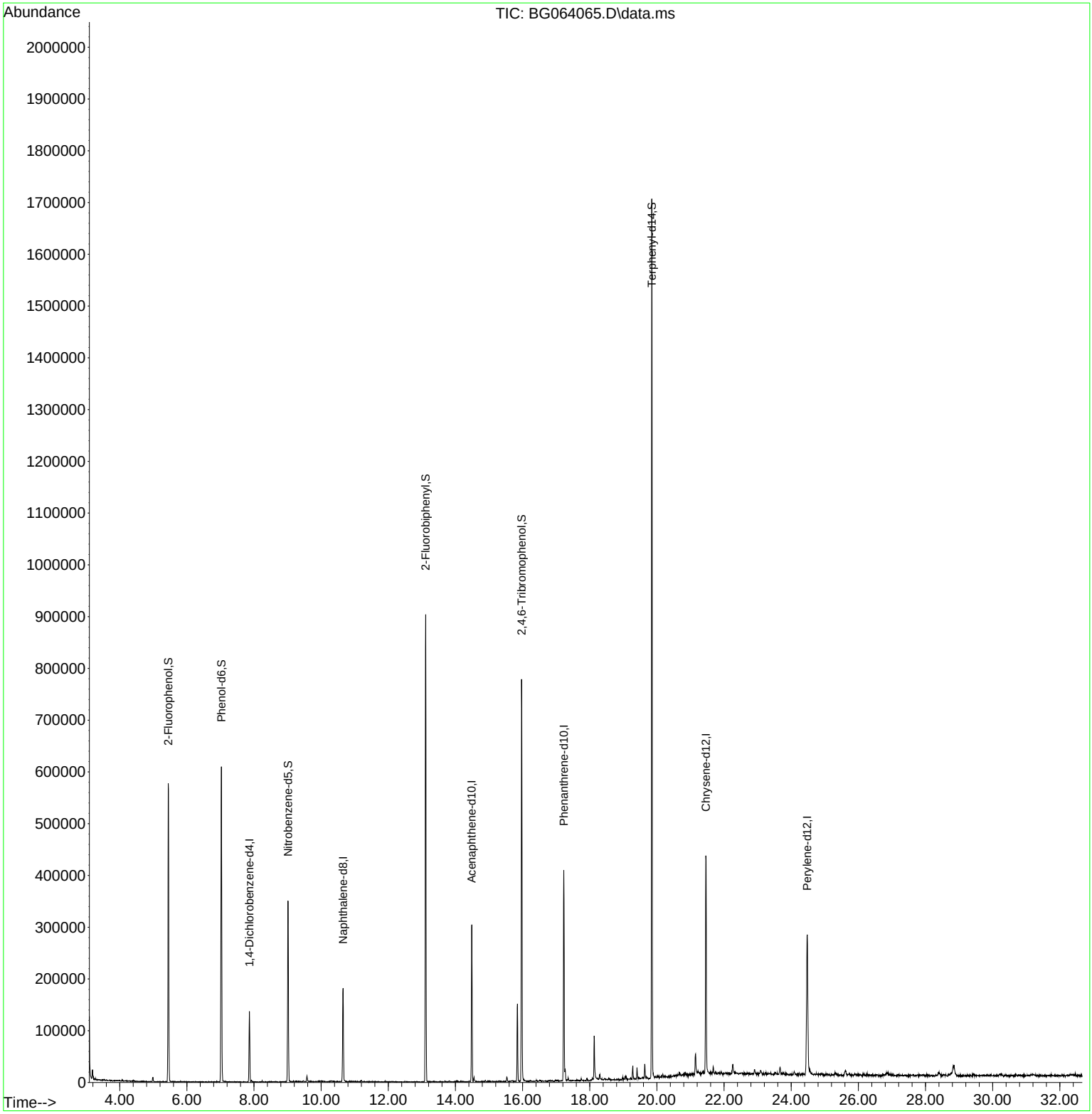
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.861	152	32518	20.000	ng	0.00
21) Naphthalene-d8	10.652	136	142122	20.000	ng	# 0.00
39) Acenaphthene-d10	14.483	164	99745	20.000	ng	0.00
64) Phenanthrene-d10	17.227	188	240718	20.000	ng	0.00
76) Chrysene-d12	21.457	240	246568	20.000	ng	0.00
86) Perylene-d12	24.477	264	266034	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.452	112	220587	105.921	ng	0.00
7) Phenol-d6	7.027	99	290337	102.481	ng	0.00
23) Nitrobenzene-d5	9.013	82	177550	69.038	ng	0.00
42) 2,4,6-Tribromophenol	15.969	330	130891	118.054	ng	0.00
45) 2-Fluorobiphenyl	13.114	172	433761	66.008	ng	0.00
79) Terphenyl-d14	19.847	244	782644	64.181	ng	0.00
Target Compounds						Qvalue

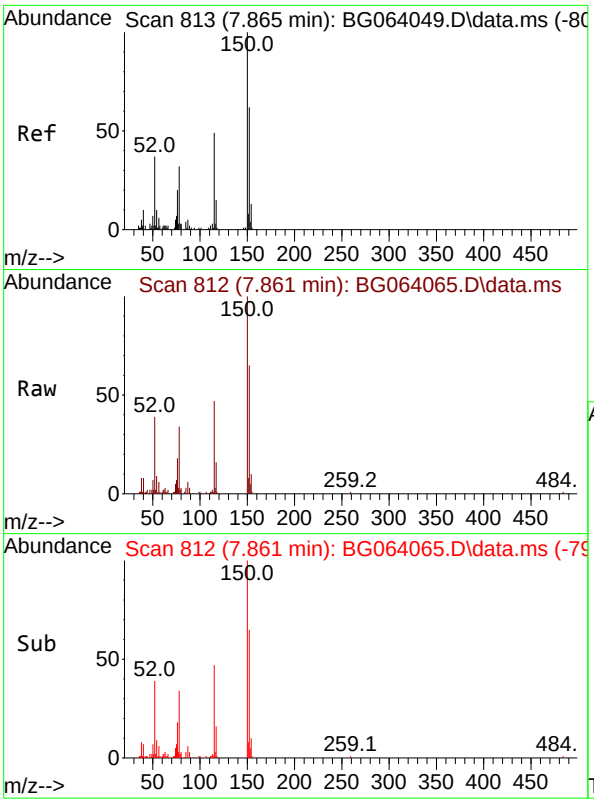
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064065.D
Acq On : 7 Mar 2025 19:01
Operator : RC/JU
Sample : Q1514-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-105-SB02

Quant Time: Mar 07 22:56:42 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



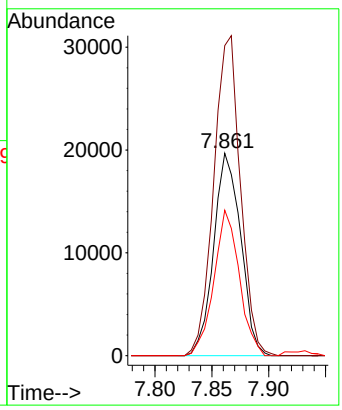


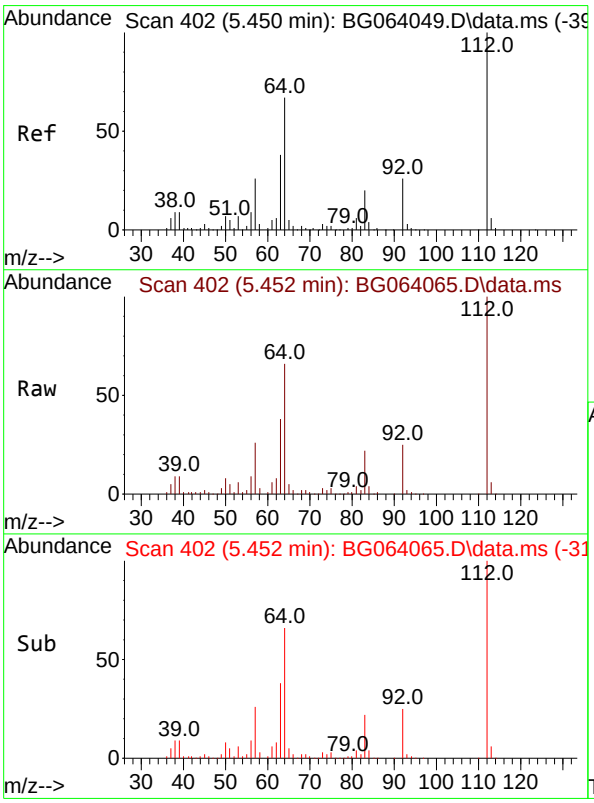
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.861 min Scan# 81
Delta R.T. -0.004 min
Lab File: BG064065.D
Acq: 7 Mar 2025 19:01

Instrument :
BNA_G
ClientSampleId :
ENV-105-SB02

Tgt Ion:152 Resp: 32518

Ion	Ratio	Lower	Upper
152	100		
150	153.3	129.2	193.8
115	71.9	63.0	94.6

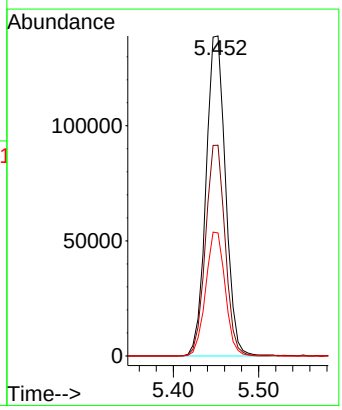


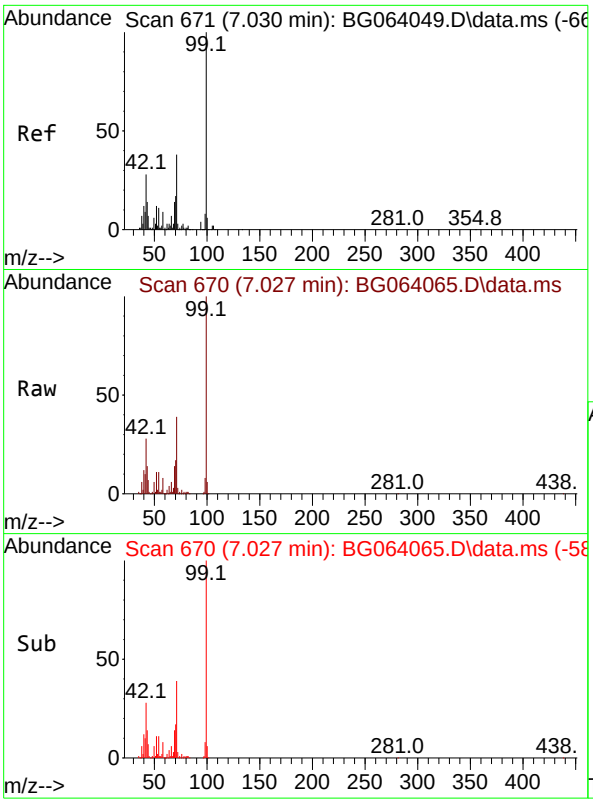


#5
2-Fluorophenol
Concen: 105.921 ng
RT: 5.452 min Scan# 402
Delta R.T. 0.002 min
Lab File: BG064065.D
Acq: 7 Mar 2025 19:01

Tgt Ion:112 Resp: 220587

Ion	Ratio	Lower	Upper
112	100		
64	65.9	53.7	80.5
63	38.4	30.2	45.4



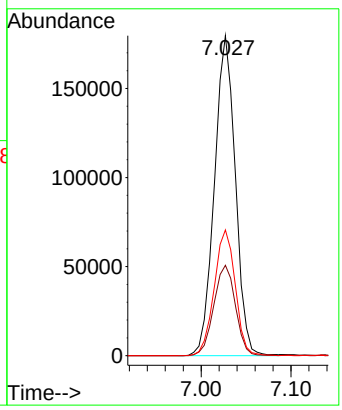


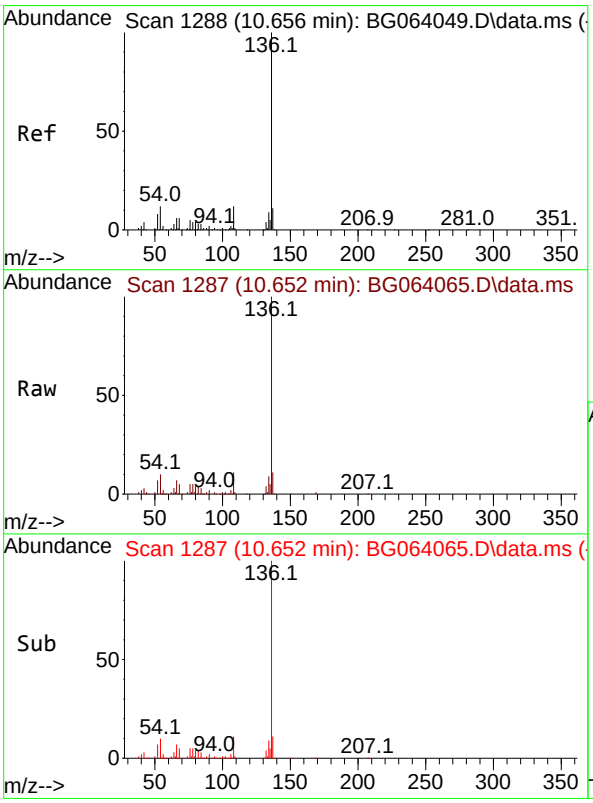
#7
Phenol-d6
Concen: 102.481 ng
RT: 7.027 min Scan# 6
Delta R.T. -0.003 min
Lab File: BG064065.D
Acq: 7 Mar 2025 19:01

Instrument :
BNA_G
ClientSampleId :
ENV-105-SB02

Tgt Ion: 99 Resp: 290337

Ion	Ratio	Lower	Upper
99	100		
42	28.3	22.7	34.1
71	39.3	30.6	46.0

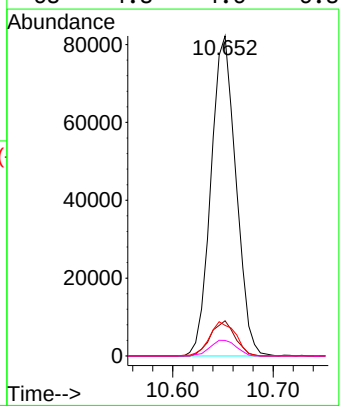


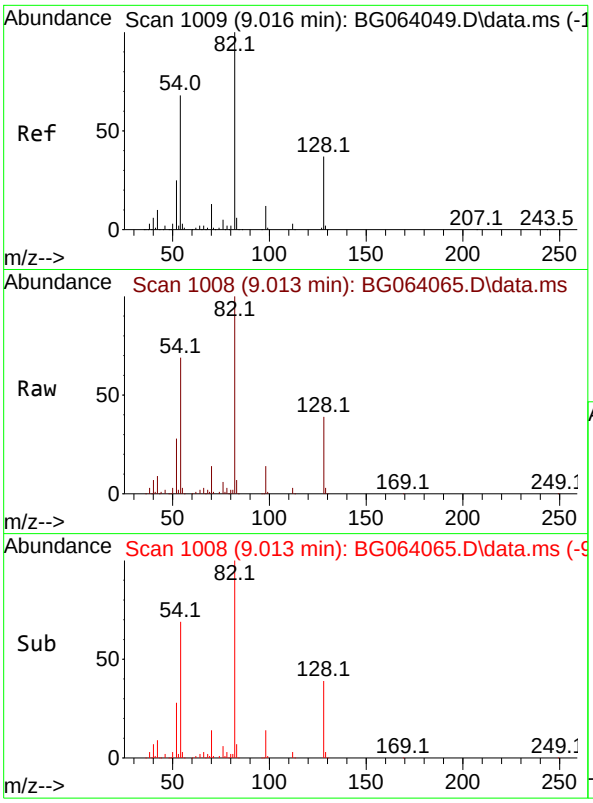


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.652 min Scan# 1287
Delta R.T. -0.004 min
Lab File: BG064065.D
Acq: 7 Mar 2025 19:01

Tgt Ion:136 Resp: 142122

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.5	12.7
54	9.6	9.9	14.9#
68	4.8	4.6	6.8



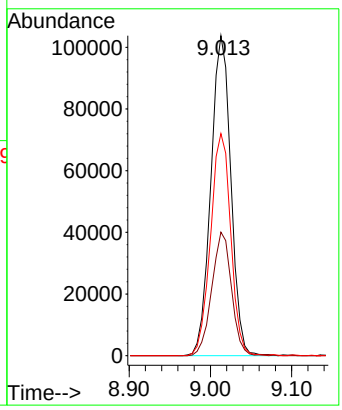


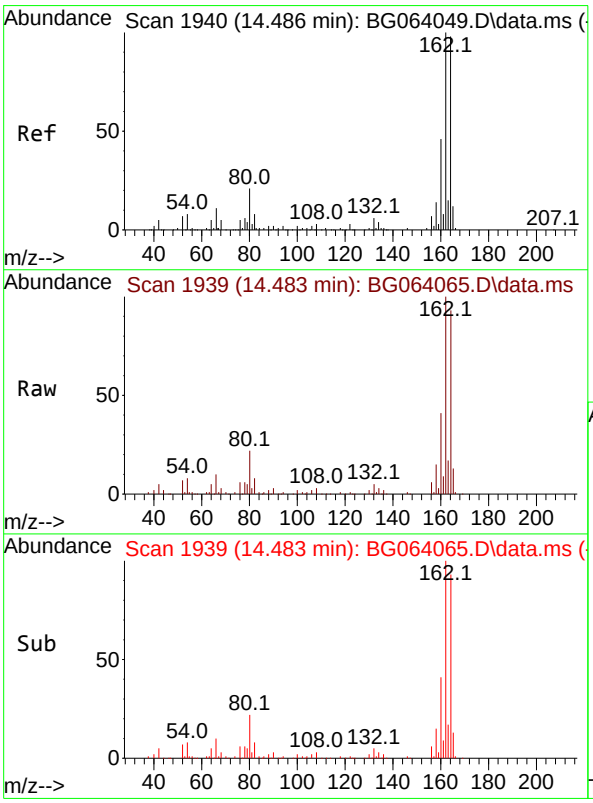
#23
Nitrobenzene-d5
Concen: 69.038 ng
RT: 9.013 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064065.D
Acq: 7 Mar 2025 19:01

Instrument :
BNA_G
ClientSampleId :
ENV-105-SB02

Tgt Ion: 82 Resp: 177550

Ion	Ratio	Lower	Upper
82	100		
128	38.6	30.0	45.0
54	69.4	54.7	82.1

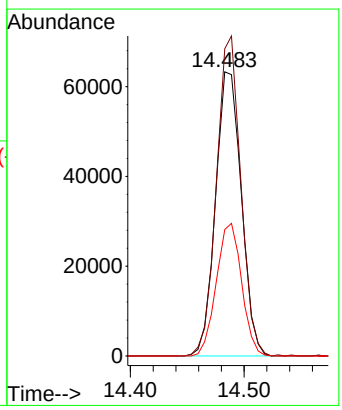


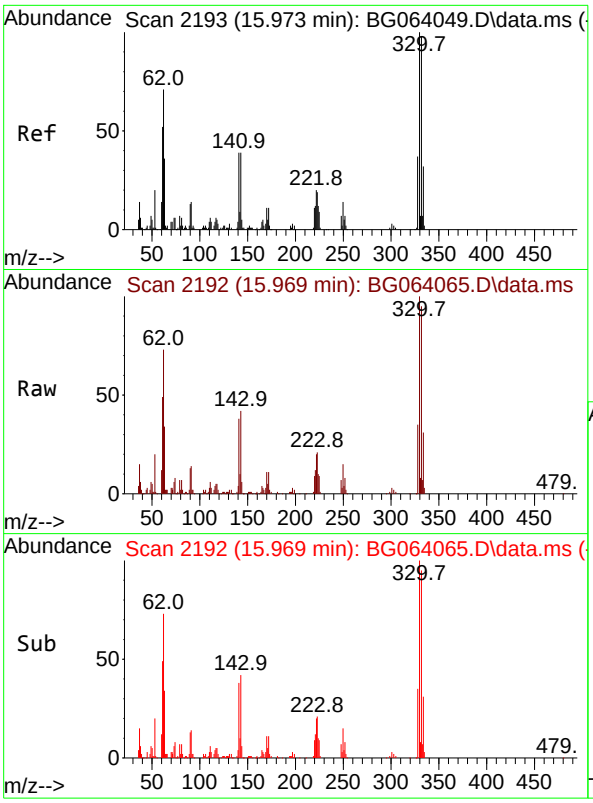


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.483 min Scan# 1939
Delta R.T. -0.003 min
Lab File: BG064065.D
Acq: 7 Mar 2025 19:01

Tgt Ion:164 Resp: 99745

Ion	Ratio	Lower	Upper
164	100		
162	108.1	81.4	122.0
160	44.5	37.0	55.6



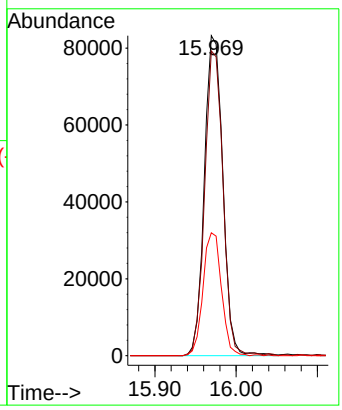


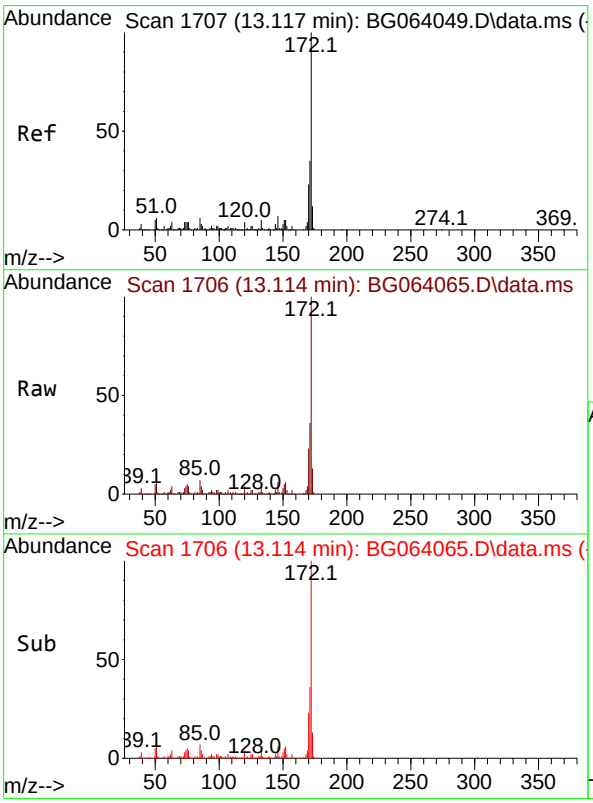
#42
2,4,6-Tribromophenol
Concen: 118.054 ng
RT: 15.969 min Scan# 21
Delta R.T. -0.003 min
Lab File: BG064065.D
Acq: 7 Mar 2025 19:01

Instrument :
BNA_G
ClientSampleId :
ENV-105-SB02

Tgt Ion:330 Resp: 130891

Ion	Ratio	Lower	Upper
330	100		
332	94.5	76.7	115.1
141	38.3	29.7	44.5

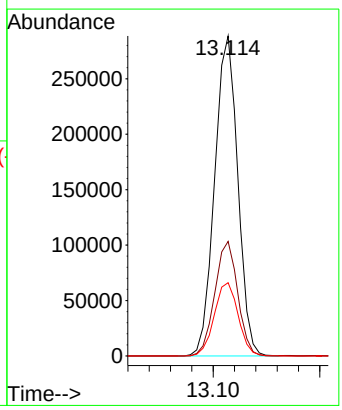


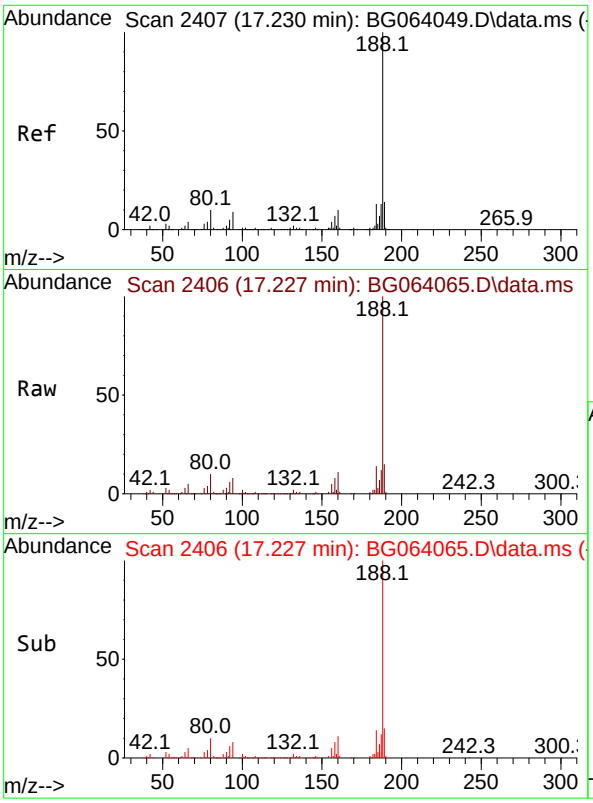


#45
2-Fluorobiphenyl
Concen: 66.008 ng
RT: 13.114 min Scan# 1706
Delta R.T. -0.003 min
Lab File: BG064065.D
Acq: 7 Mar 2025 19:01

Tgt Ion:172 Resp: 433761

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.0	42.0
170	22.9	18.7	28.1



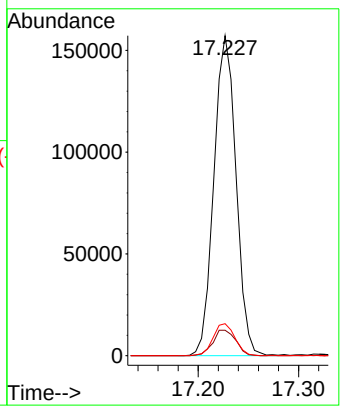


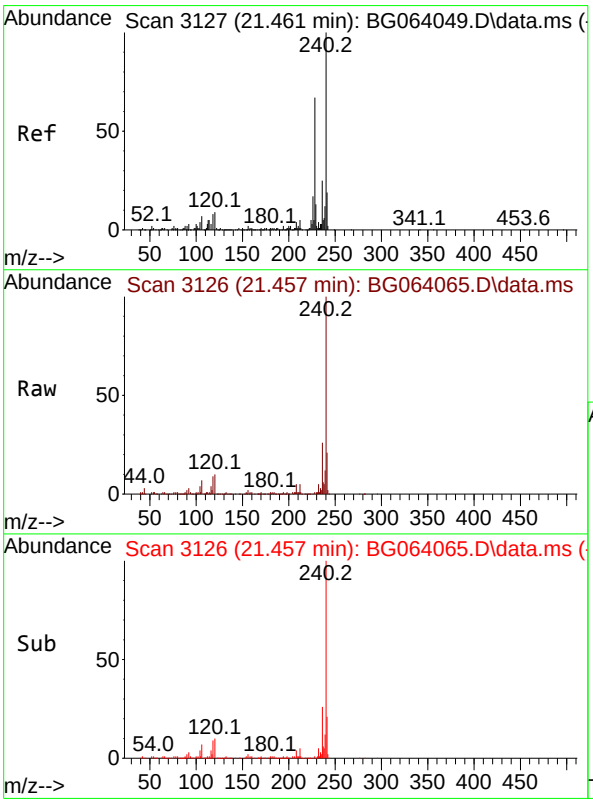
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 24
Delta R.T. -0.003 min
Lab File: BG064065.D
Acq: 7 Mar 2025 19:01

Instrument :
BNA_G
ClientSampleId :
ENV-105-SB02

Tgt Ion:188 Resp: 240718

Ion	Ratio	Lower	Upper
188	100		
94	8.0	6.9	10.3
80	10.0	8.1	12.1

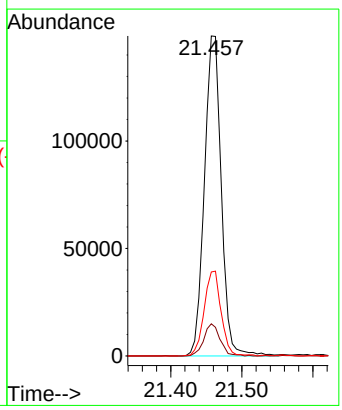


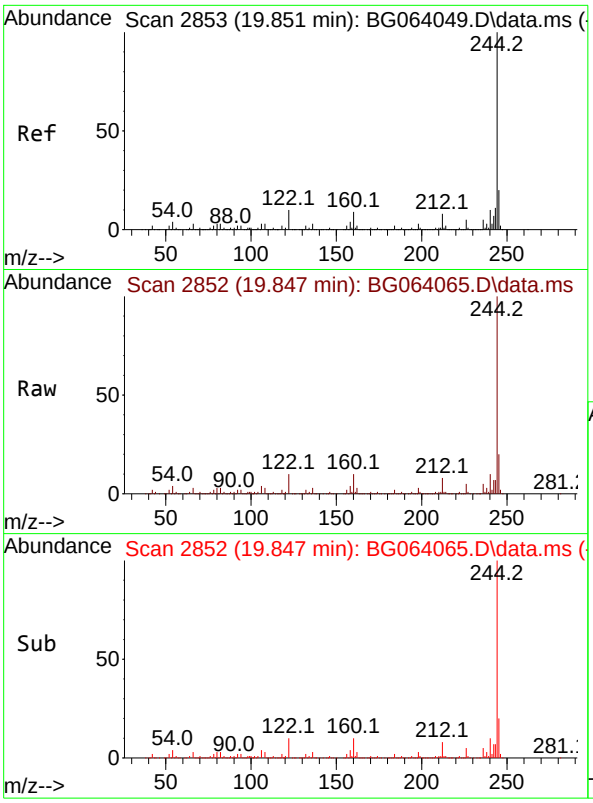


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.457 min Scan# 3126
Delta R.T. -0.003 min
Lab File: BG064065.D
Acq: 7 Mar 2025 19:01

Tgt Ion:240 Resp: 246568

Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.2	10.8
236	26.3	20.2	30.2



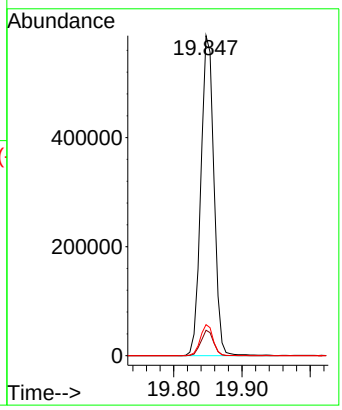


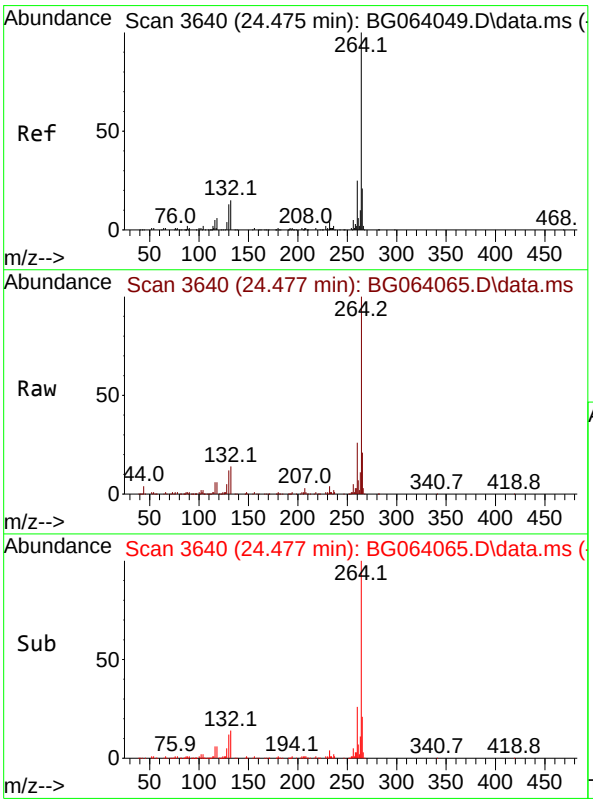
#79
Terphenyl-d14
Concen: 64.181 ng
RT: 19.847 min Scan# 2
Delta R.T. -0.003 min
Lab File: BG064065.D
Acq: 7 Mar 2025 19:01

Instrument :
BNA_G
ClientSampleId :
ENV-105-SB02

Tgt Ion:244 Resp: 782644

Ion	Ratio	Lower	Upper
244	100		
212	8.0	6.2	9.4
122	9.7	8.0	12.0

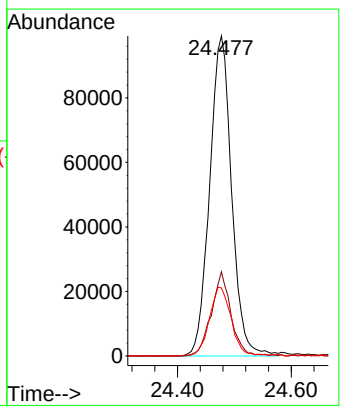




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.477 min Scan# 3640
Delta R.T. 0.002 min
Lab File: BG064065.D
Acq: 7 Mar 2025 19:01

Tgt Ion:264 Resp: 266034

Ion	Ratio	Lower	Upper
264	100		
260	26.3	19.6	29.4
265	21.2	16.6	25.0



Sample Results: **BG064065.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064065.D
Acq On : 7 Mar 2025 19:01
Operator : RC/JU
Sample : Q1514-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-105-SB02

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BG064065.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.446	395	401	410	rBV	576722	899680	40.38%	8.191%
2	7.027	662	670	678	rBV	609541	1009720	45.32%	9.193%
3	7.861	805	812	820	rBV2	136822	223433	10.03%	2.034%
4	9.013	1000	1008	1015	rBV	349514	590932	26.53%	5.380%
5	10.652	1278	1287	1295	rBV	180339	318041	14.28%	2.896%
6	13.114	1699	1706	1714	rVB	902299	1359564	61.03%	12.379%
7	14.489	1933	1940	1946	rVB	303558	468449	21.03%	4.265%
8	15.846	2164	2171	2178	rBV	150606	216859	9.73%	1.974%
9	15.969	2185	2192	2201	rBV	776863	1179521	52.95%	10.739%
10	17.227	2399	2406	2411	rBV2	407603	625479	28.08%	5.695%
11	17.268	2411	2413	2417	rVB2	22838	26653	1.20%	0.243%
12	18.132	2553	2560	2572	rBV2	85094	138792	6.23%	1.264%
13	19.283	2751	2756	2759	rBV	26331	35788	1.61%	0.326%
14	19.407	2774	2777	2783	rVB4	21619	25997	1.17%	0.237%
15	19.636	2812	2816	2820	rBV	26681	35061	1.57%	0.319%
16	19.847	2846	2852	2866	rVB	1698190	2227815	100.00%	20.284%
17	21.152	3069	3074	3081	rBV3	40523	82505	3.70%	0.751%
18	21.457	3119	3126	3134	rBV	420898	699170	31.38%	6.366%
19	22.262	3258	3263	3269	rBV6	17203	31251	1.40%	0.285%
20	23.666	3496	3502	3507	rBV5	14638	30583	1.37%	0.278%
21	24.477	3629	3640	3650	rBV2	271477	729487	32.74%	6.642%
22	25.617	3827	3834	3841	rVB10	10197	28412	1.28%	0.259%

Sum of corrected areas: 10983192

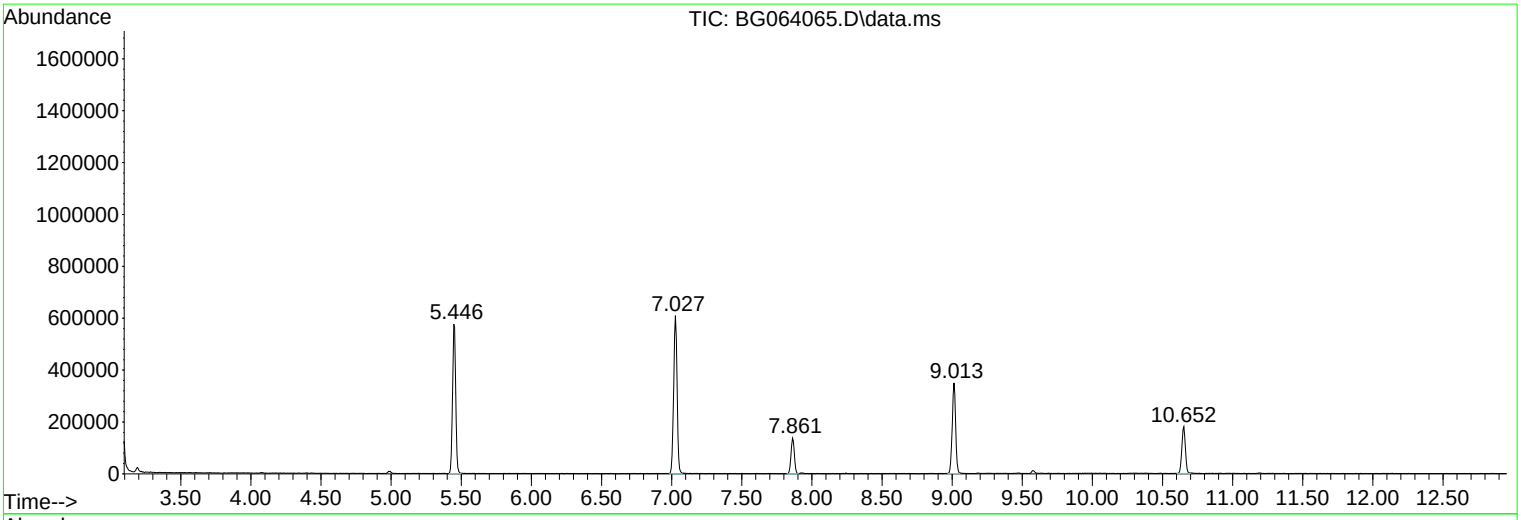
Sample Results: **BG064065.D**

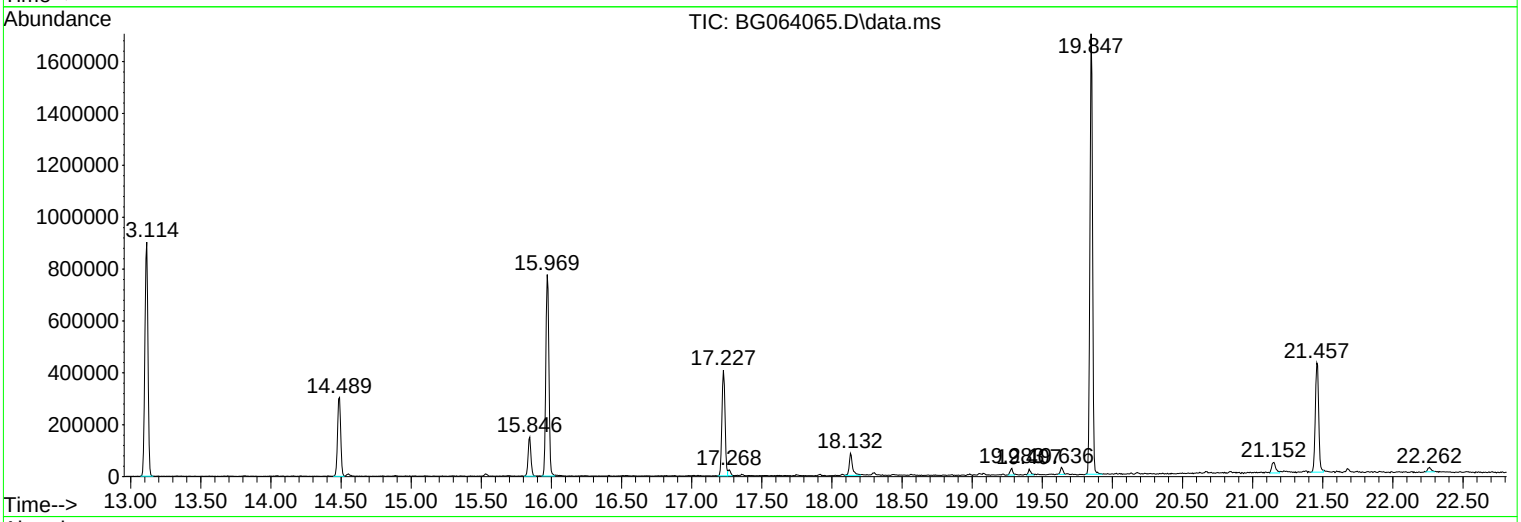
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064065.D
Acq On : 7 Mar 2025 19:01
Operator : RC/JU
Sample : Q1514-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

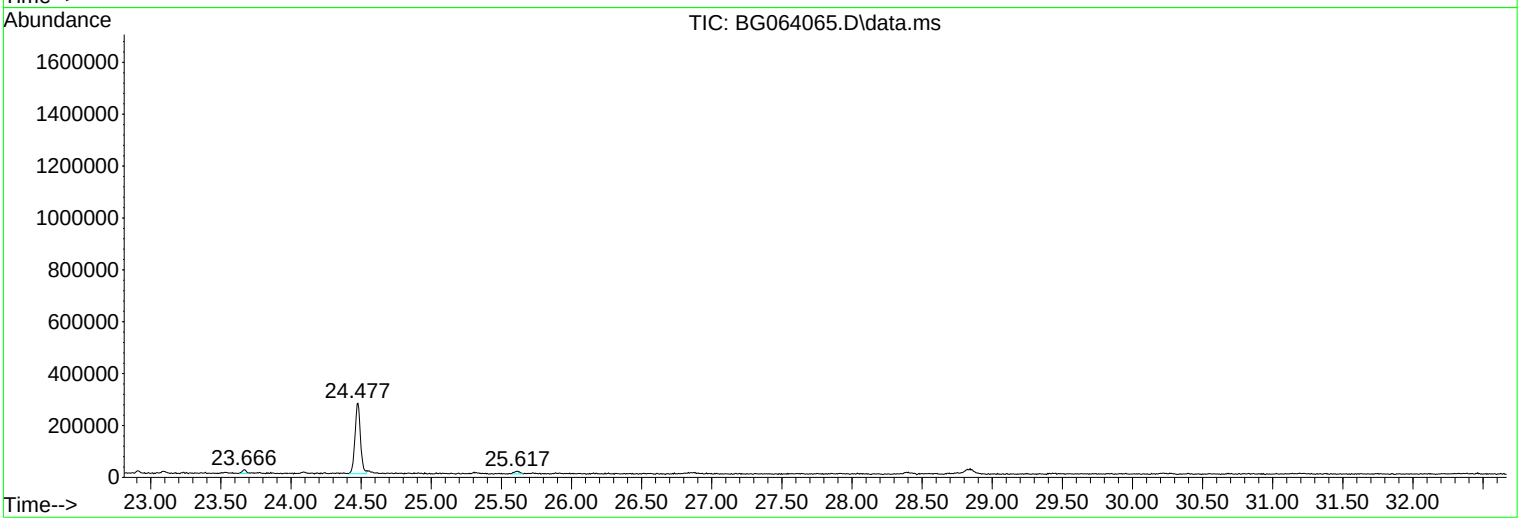
Instrument :
BNA_G
ClientSampleId :
ENV-105-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064065.D
Acq On : 7 Mar 2025 19:01
Operator : RC/JU
Sample : Q1514-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-105-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

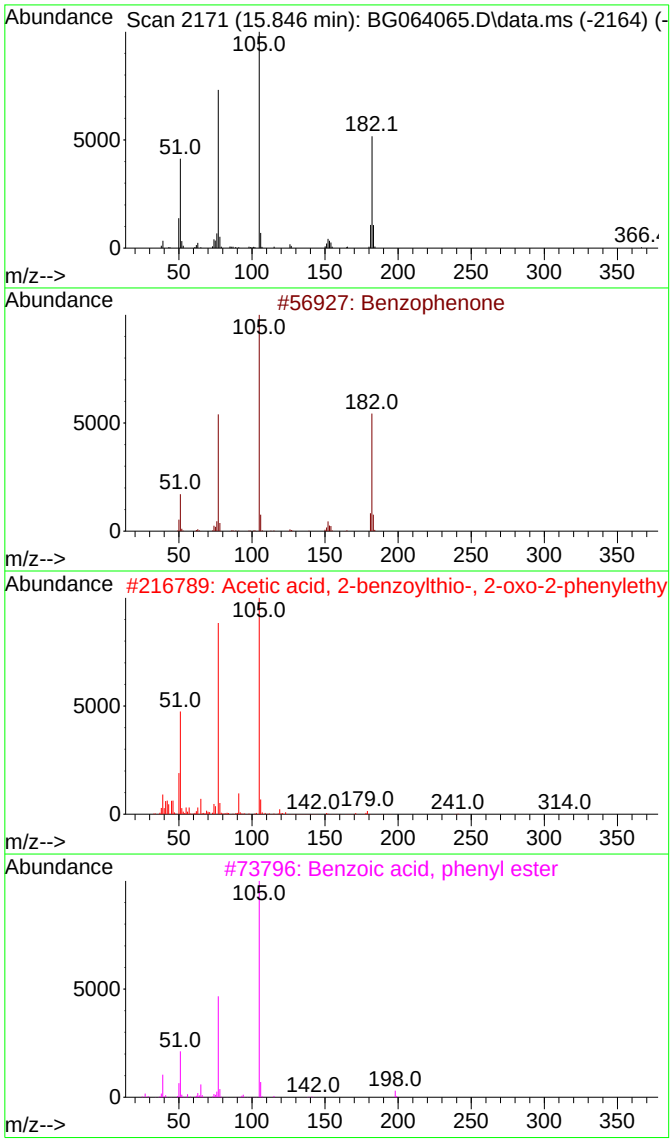
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

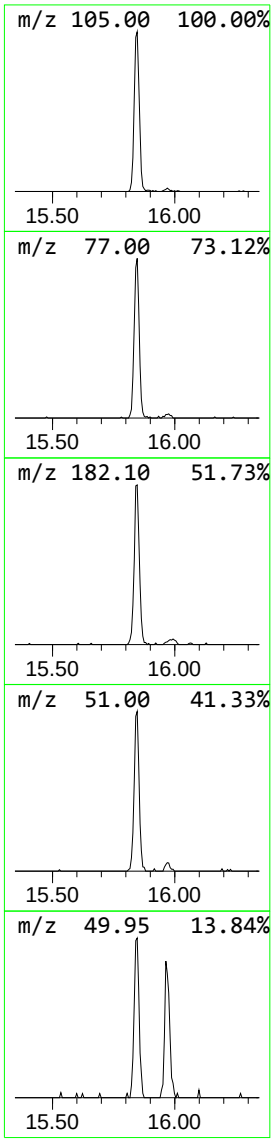
****

Peak Number 1 Benzophenone Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.846	9.26 ng	216859	Acenaphthene-d10	14.483

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	97
2	Acetic acid, 2-benzoylthio-, 2-o...	314	C17H14O4S	1000260-20-1	50
3	Benzoic acid, phenyl ester	198	C13H10O2	000093-99-2	50
4	Ethanone, 2-(5-nitrotetrazol-2-y...	233	C9H7N5O3	1000310-77-2	50
5	Pentafluoroethyl phenyl ketone	224	C9H5F5O	000394-52-5	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064065.D
Acq On : 7 Mar 2025 19:01
Operator : RC/JU
Sample : Q1514-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-105-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

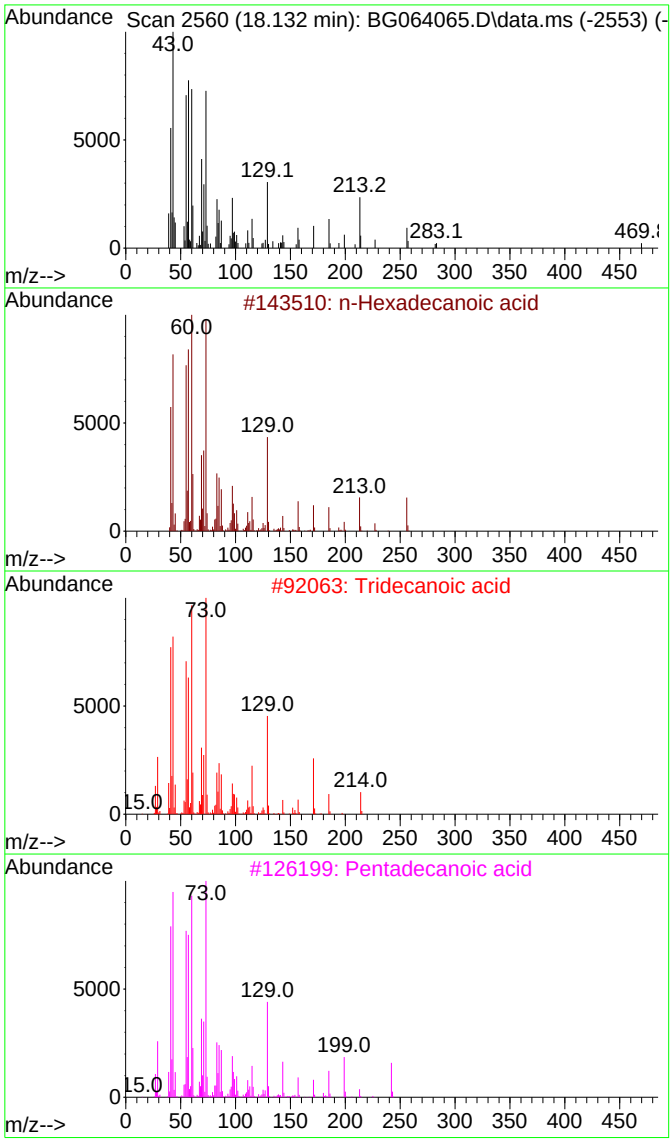
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

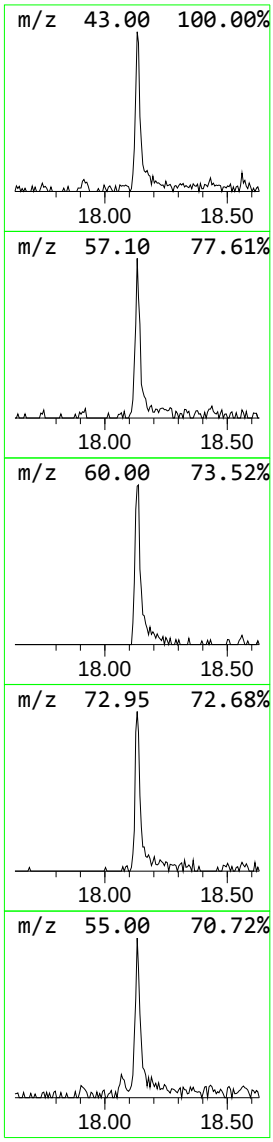
****

Peak Number 2 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.132	4.44 ng	138792	Phenanthrene-d10	17.227

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
2	Tridecanoic acid	214	C13H26O2	000638-53-9	91
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	58
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	58
5	Octadecanoic acid	284	C18H36O2	000057-11-4	45





Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064065.D
Acq On : 7 Mar 2025 19:01
Operator : RC/JU
Sample : Q1514-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-105-SB02

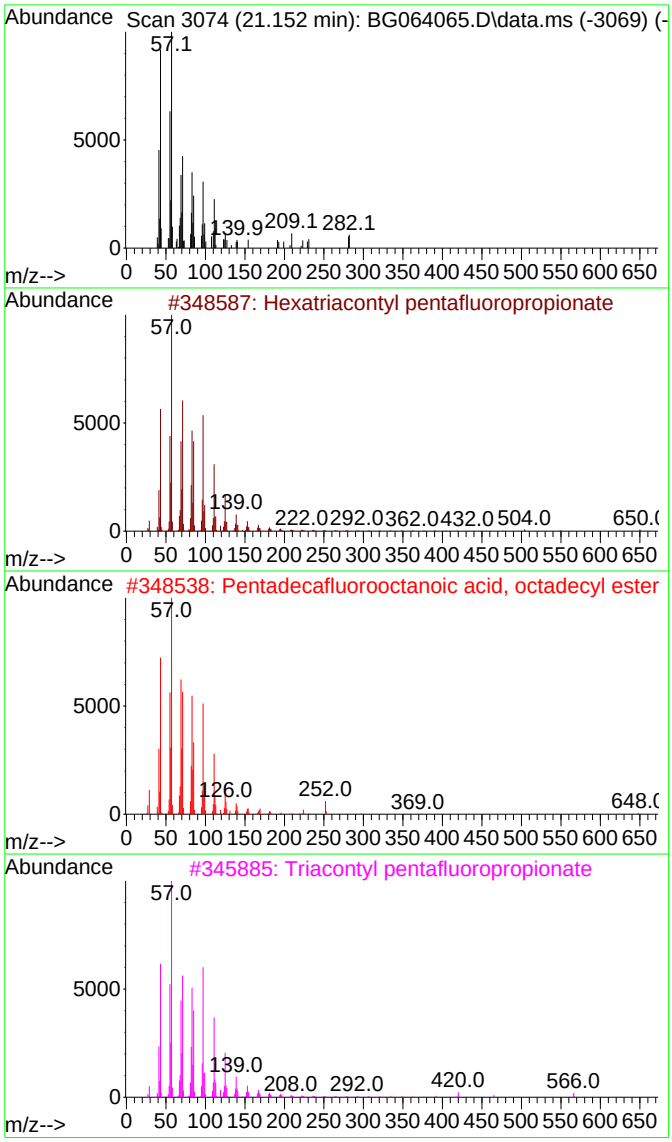
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

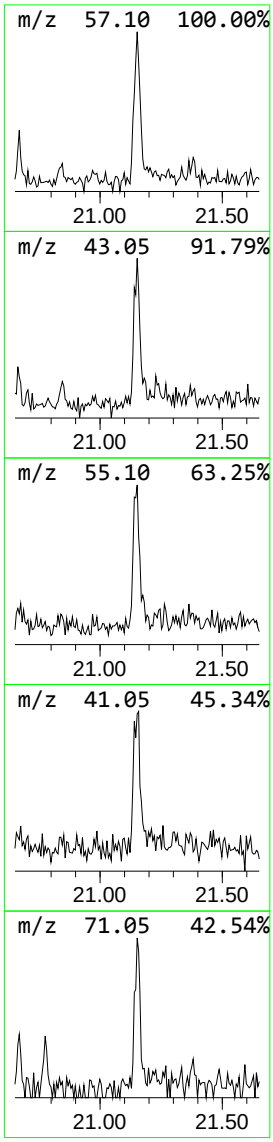
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Hexatriacontyl pentafluorop... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.152	2.36 ng	82505	Chrysene-d12	21.457

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexatriacontyl pentafluoropropio...	669	C39H73F5O2	1000351-89-0	87
2	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	86
3	Triacontyl pentafluoropropionate	584	C33H61F5O2	1000351-80-0	86
4	Triacontyl trifluoroacetate	534	C32H61F3O2	1000351-75-7	86
5	1-Dodecanol, 2-octyl-	298	C20H42O	005333-42-6	83





Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064065.D
Acq On : 7 Mar 2025 19:01
Operator : RC/JU
Sample : Q1514-03
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-105-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Benzophenone	15.846	9.3	ng	216859	3	14.483	468449	20.0
n-Hexadecanoic ...	18.132	4.4	ng	138792	4	17.227	625479	20.0
Hexatriacontyl ...	21.152	2.4	ng	82505	5	21.457	699170	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141915.D
Acq On : 11 Mar 2025 14:26
Operator : RC/JU
Sample : Q1514-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

Quant Time: Mar 11 14:55:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration

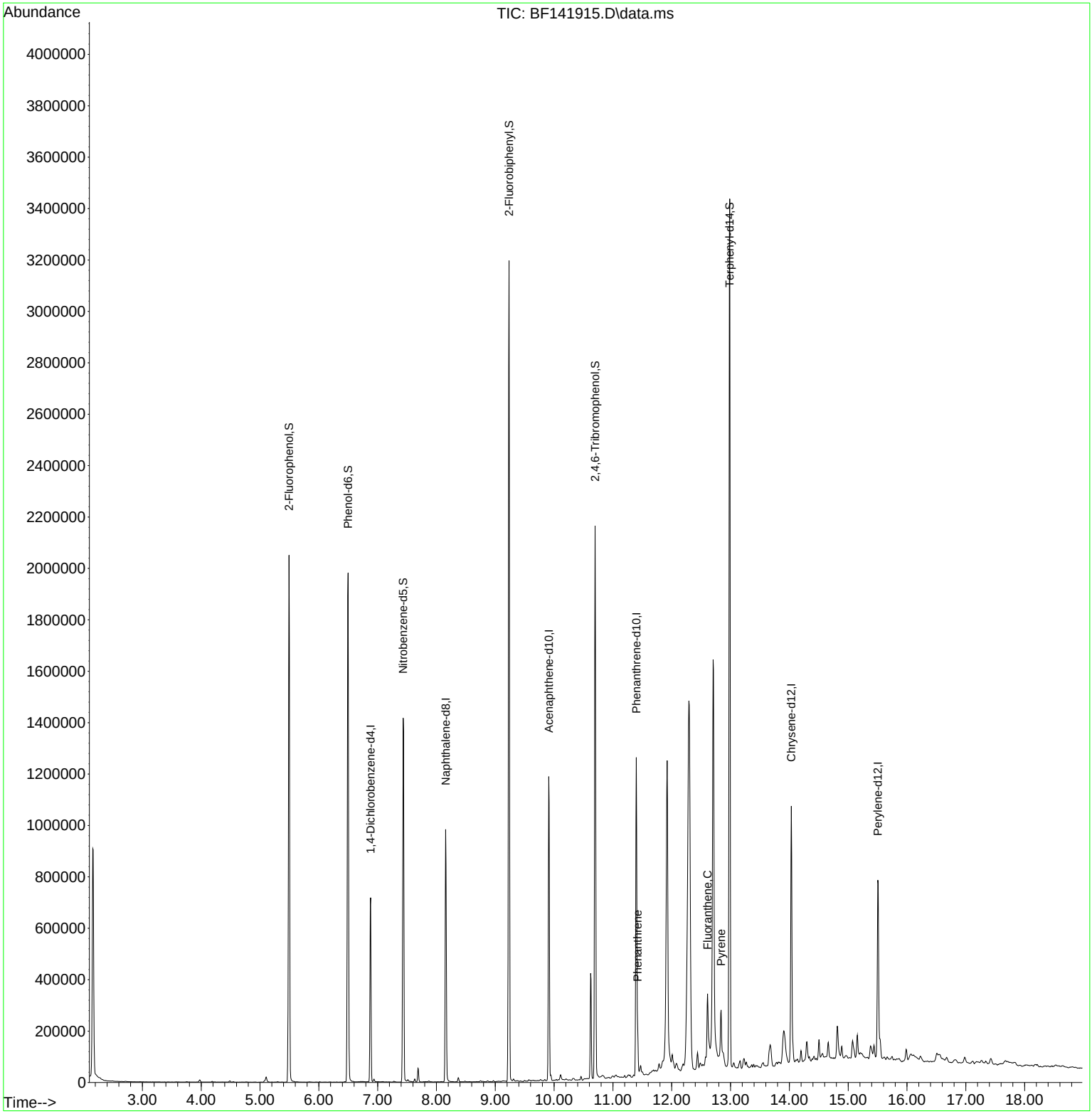
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	153238	20.000	ng	0.00
21) Naphthalene-d8	8.157	136	609925	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	347323	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	611592	20.000	ng	0.00
76) Chrysene-d12	14.033	240	452771	20.000	ng	0.00
86) Perylene-d12	15.504	264	421172	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	781927	85.162	ng	0.00
7) Phenol-d6	6.498	99	977722	83.636	ng	0.00
23) Nitrobenzene-d5	7.434	82	650895	60.056	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	379614	86.154	ng	0.00
45) 2-Fluorobiphenyl	9.233	172	1367158	59.863	ng	0.00
79) Terphenyl-d14	12.986	244	1706898	55.736	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.422	178	90943	2.753	ng	98
75) Fluoranthene	12.610	202	111477	3.181	ng	99
78) Pyrene	12.839	202	115154	2.940	ng	98

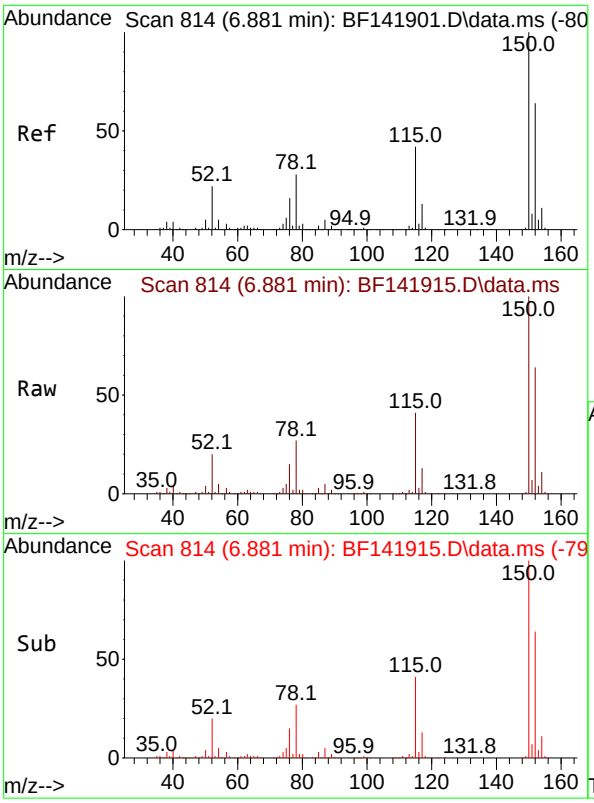
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141915.D
Acq On : 11 Mar 2025 14:26
Operator : RC/JU
Sample : Q1514-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

Quant Time: Mar 11 14:55:31 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Mon Mar 10 15:46:22 2025
Response via : Initial Calibration



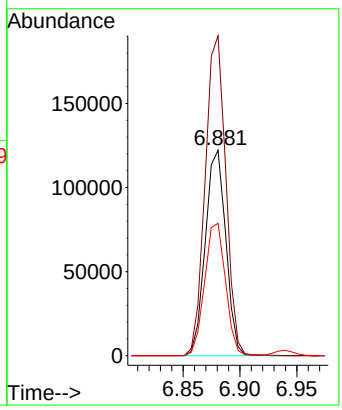


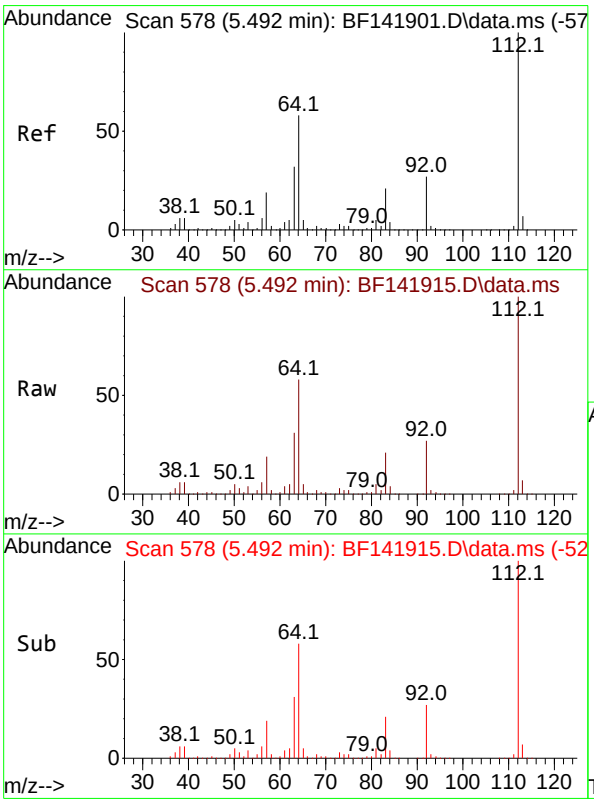
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF141915.D
Acq: 11 Mar 2025 14:26

Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

Tgt Ion:152 Resp: 153238

Ion	Ratio	Lower	Upper
152	100		
150	155.7	127.4	191.2
115	64.4	51.9	77.9

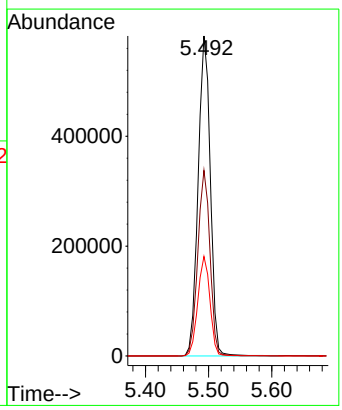


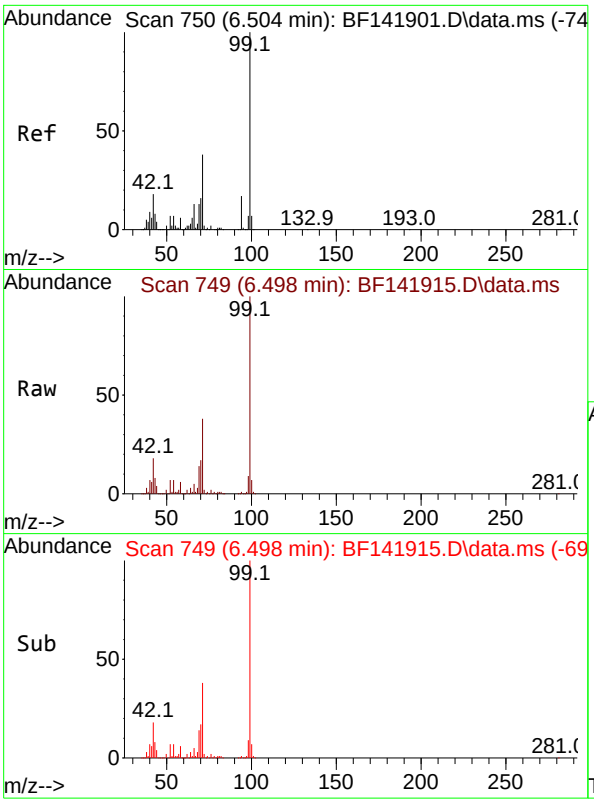


#5
2-Fluorophenol
Concen: 85.162 ng
RT: 5.492 min Scan# 578
Delta R.T. 0.000 min
Lab File: BF141915.D
Acq: 11 Mar 2025 14:26

Tgt Ion:112 Resp: 781927

Ion	Ratio	Lower	Upper
112	100		
64	58.0	46.5	69.7
63	31.1	25.4	38.2



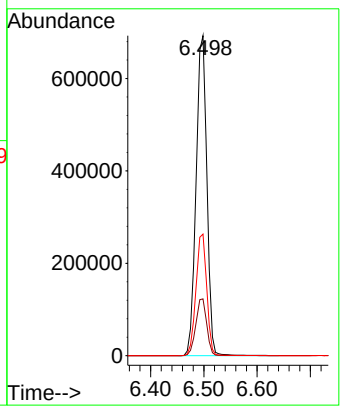


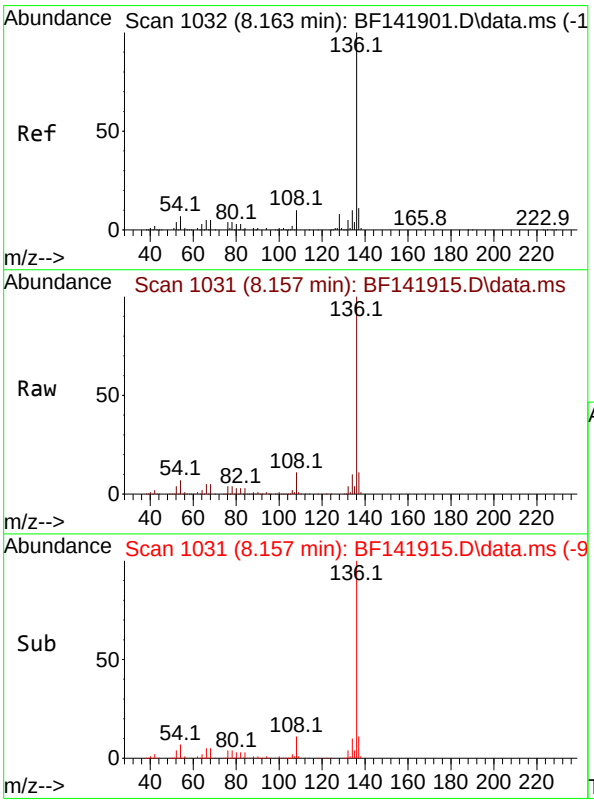
#7
Phenol-d6
Concen: 83.636 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF141915.D
Acq: 11 Mar 2025 14:26

Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

Tgt Ion: 99 Resp: 977722

Ion	Ratio	Lower	Upper
99	100		
42	17.8	14.6	21.8
71	38.0	30.8	46.2

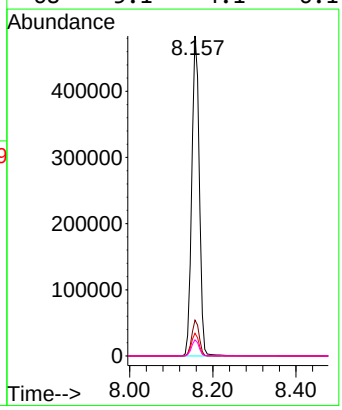


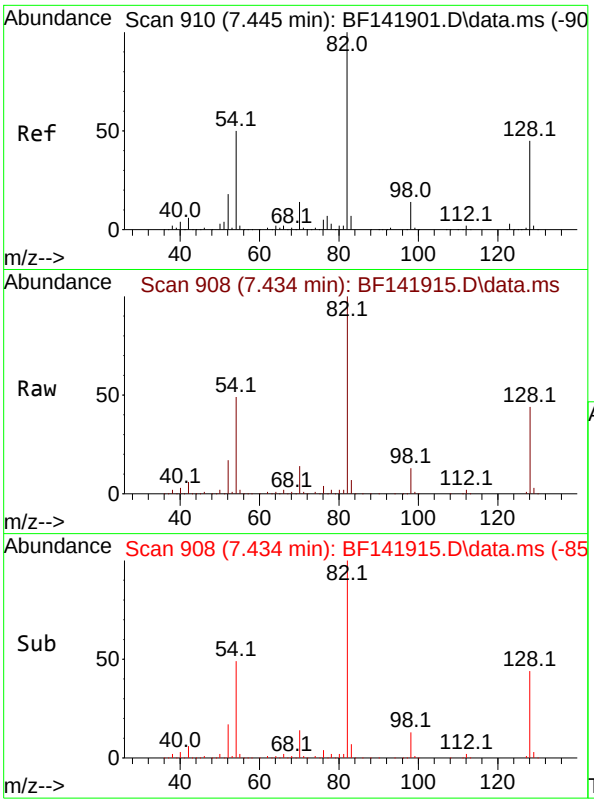


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.157 min Scan# 1031
Delta R.T. -0.006 min
Lab File: BF141915.D
Acq: 11 Mar 2025 14:26

Tgt Ion:136 Resp: 609925

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.8	13.2
54	7.1	5.8	8.8
68	5.1	4.1	6.1



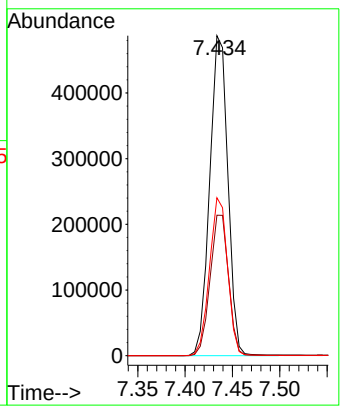


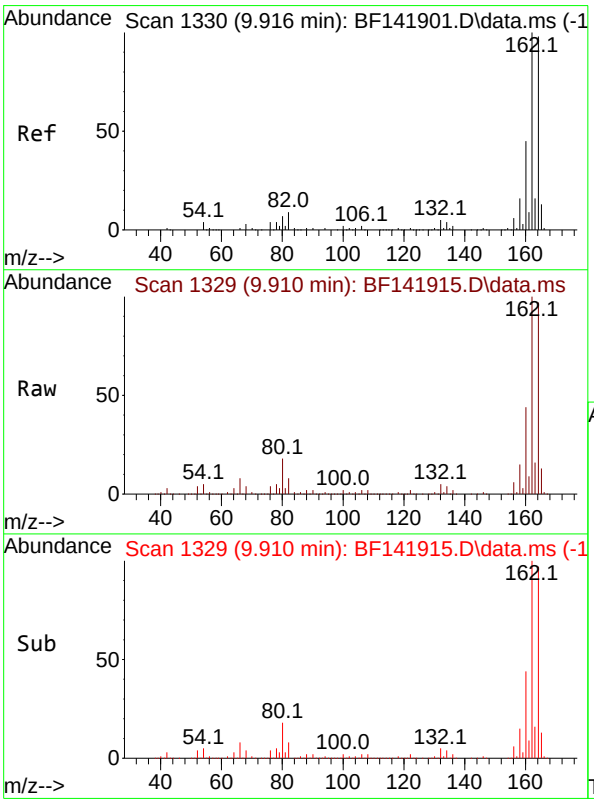
#23
Nitrobenzene-d5
Concen: 60.056 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF141915.D
Acq: 11 Mar 2025 14:26

Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

Tgt Ion: 82 Resp: 650895

Ion	Ratio	Lower	Upper
82	100		
128	43.9	36.0	54.0
54	49.3	39.6	59.4

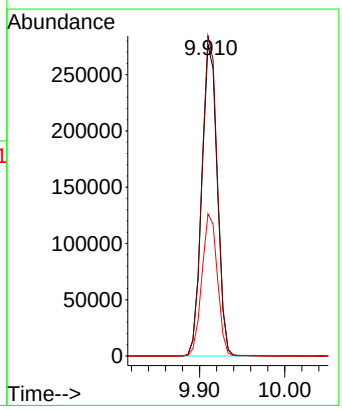


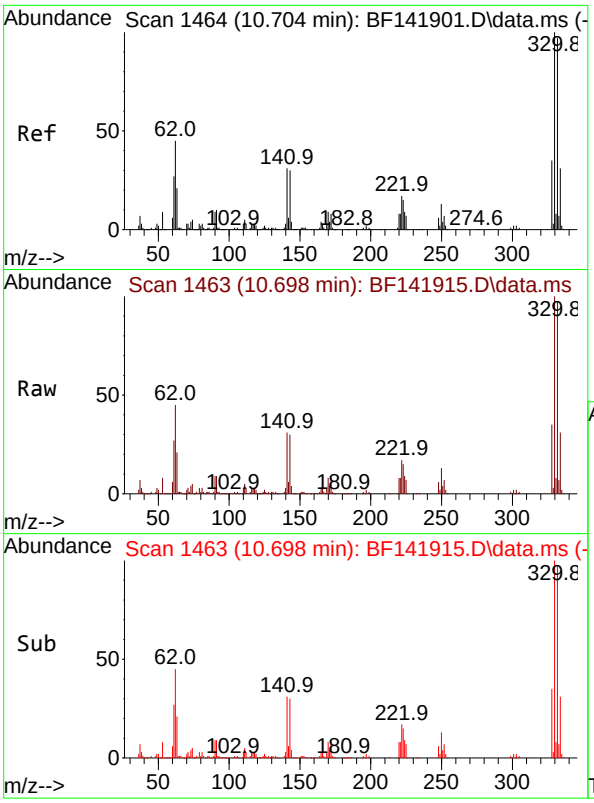


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF141915.D
Acq: 11 Mar 2025 14:26

Tgt Ion:164 Resp: 347323

Ion	Ratio	Lower	Upper
164	100		
162	102.8	81.8	122.6
160	45.6	36.7	55.1



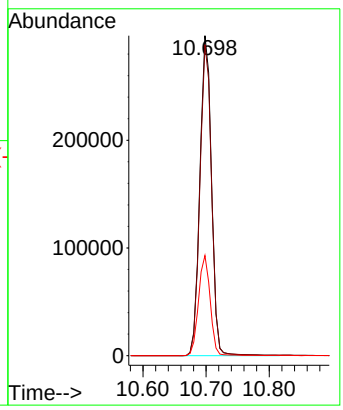


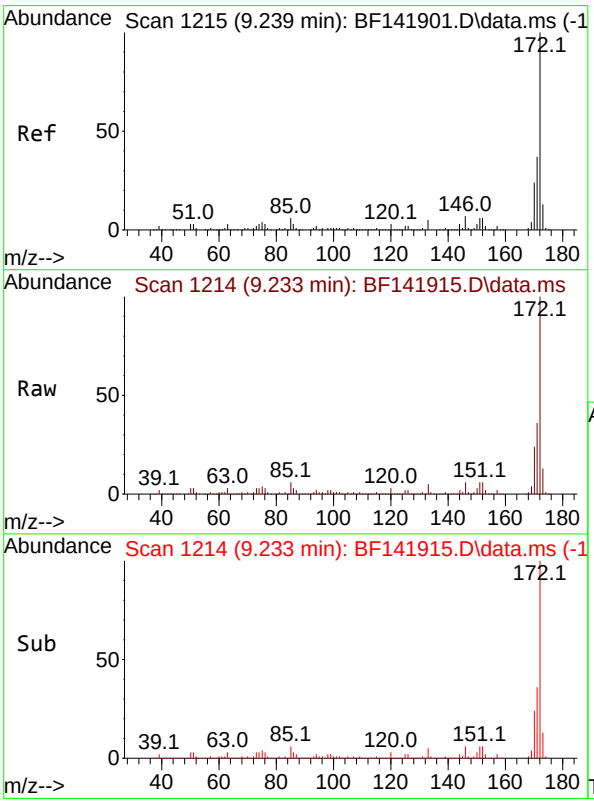
#42
2,4,6-Tribromophenol
Concen: 86.154 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF141915.D
Acq: 11 Mar 2025 14:26

Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

Tgt Ion:330 Resp: 379614

Ion	Ratio	Lower	Upper
330	100		
332	97.0	77.6	116.4
141	31.4	24.7	37.1

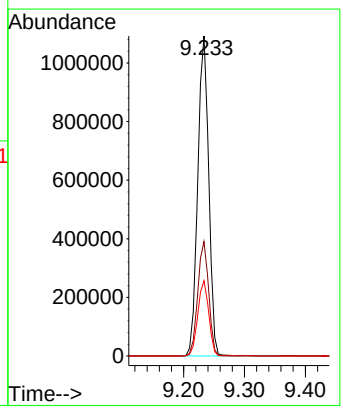


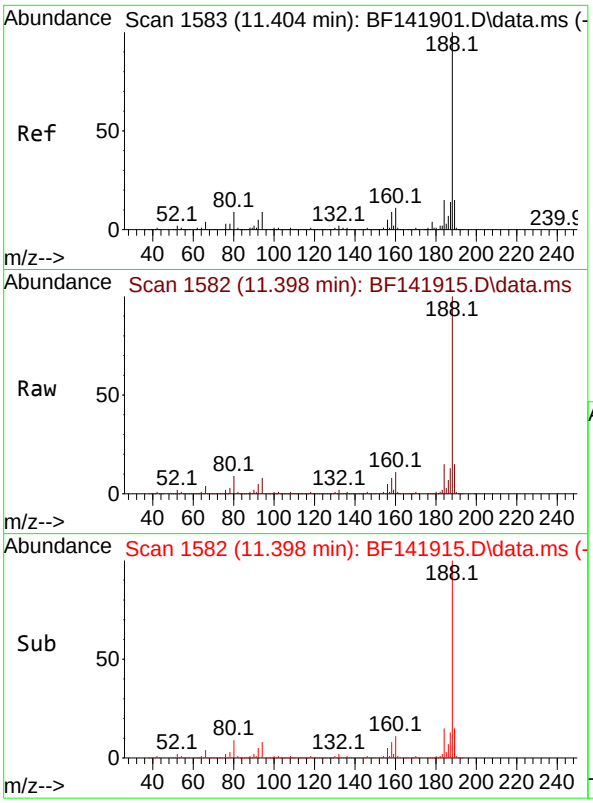


#45
2-Fluorobiphenyl
Concen: 59.863 ng
RT: 9.233 min Scan# 1214
Delta R.T. -0.006 min
Lab File: BF141915.D
Acq: 11 Mar 2025 14:26

Tgt Ion:172 Resp: 1367158

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.3	43.9
170	23.5	19.4	29.0



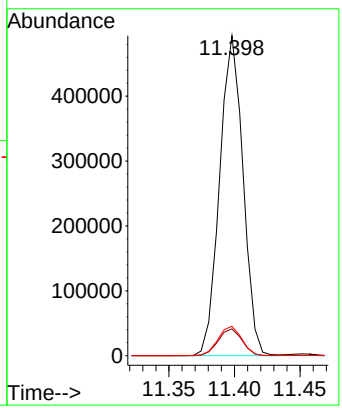


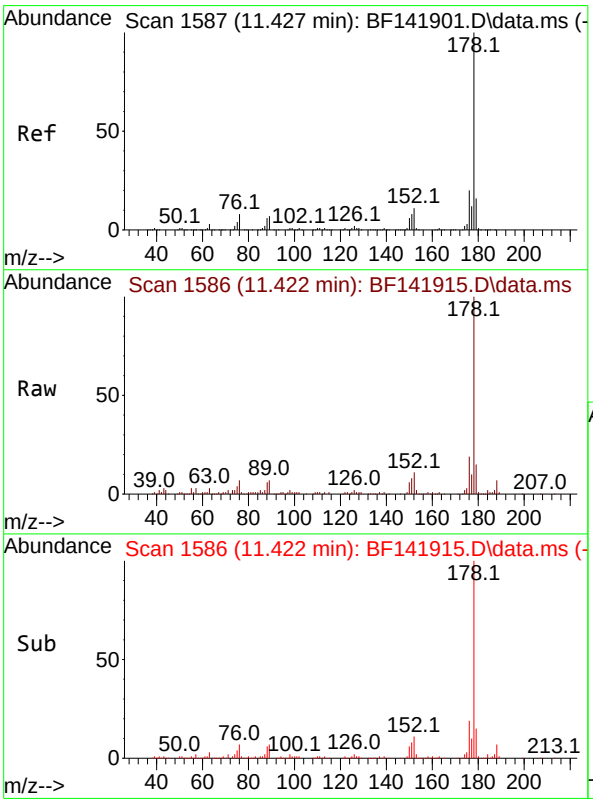
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141915.D
Acq: 11 Mar 2025 14:26

Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

Tgt Ion:188 Resp: 611592

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.8	10.2
80	9.2	7.6	11.4

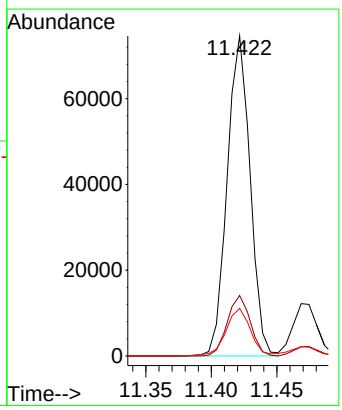


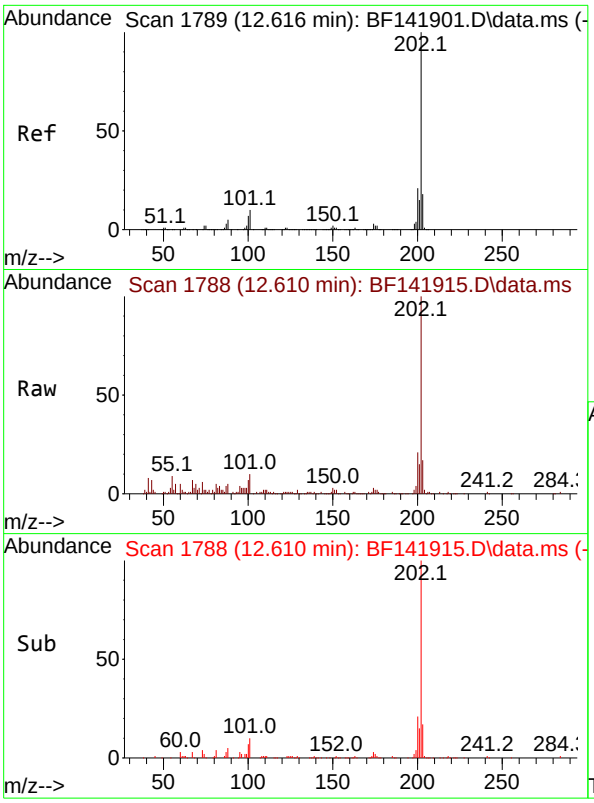


#71
Phenanthrene
Concen: 2.753 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.006 min
Lab File: BF141915.D
Acq: 11 Mar 2025 14:26

Tgt Ion:178 Resp: 90943

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.8	23.8
179	14.9	12.6	19.0



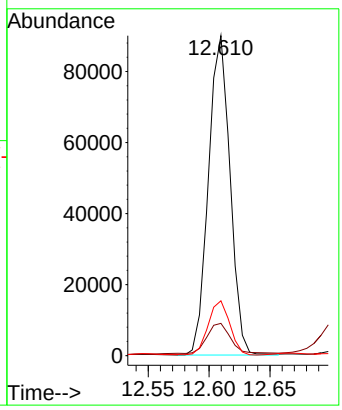


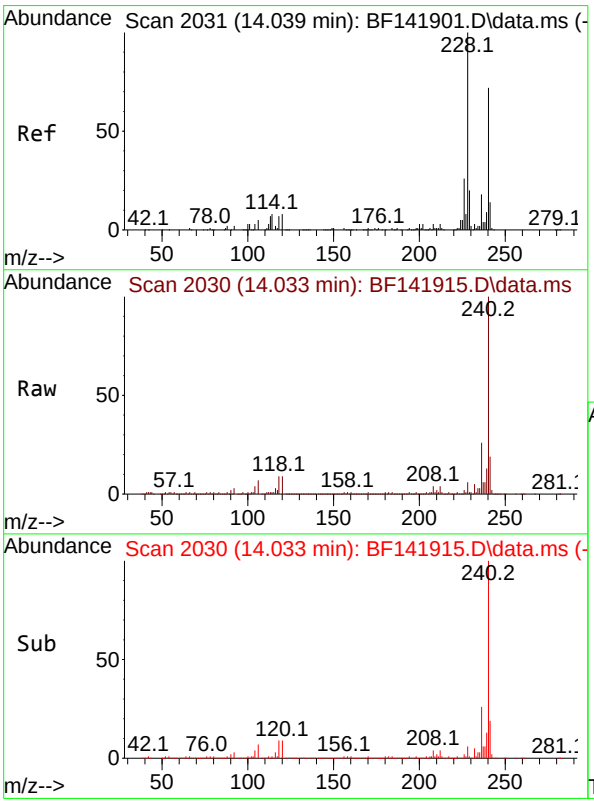
#75
Fluoranthene
Concen: 3.181 ng
RT: 12.610 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141915.D
Acq: 11 Mar 2025 14:26

Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

Tgt Ion:202 Resp: 111477

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	29.7
203	17.2	0.0	37.8

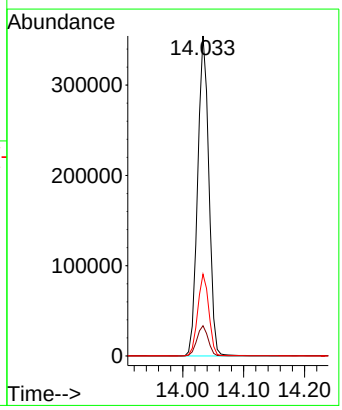


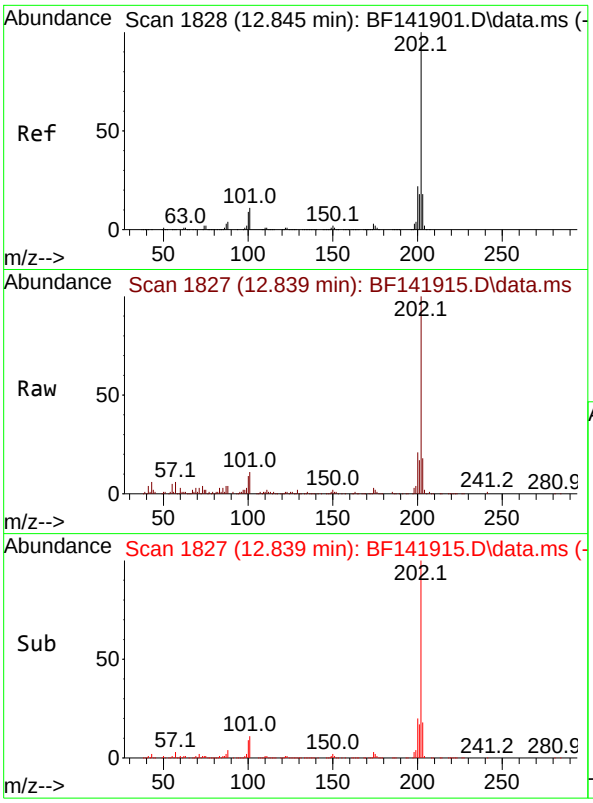


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.006 min
Lab File: BF141915.D
Acq: 11 Mar 2025 14:26

Tgt Ion:240 Resp: 452771

Ion	Ratio	Lower	Upper
240	100		
120	9.4	8.4	12.6
236	25.6	20.5	30.7



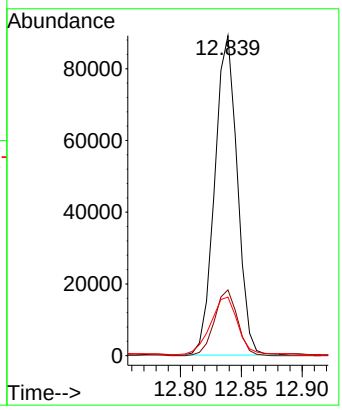


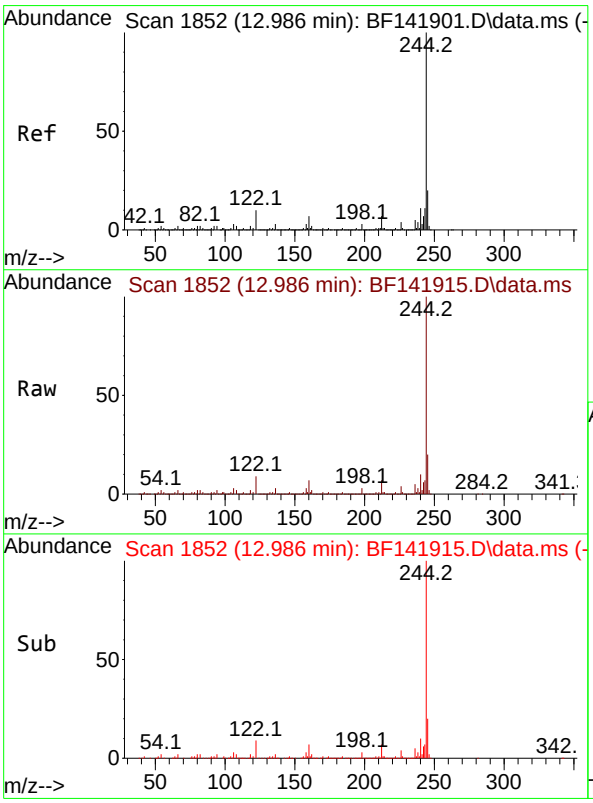
#78
Pyrene
Concen: 2.940 ng
RT: 12.839 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF141915.D
Acq: 11 Mar 2025 14:26

Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

Tgt Ion:202 Resp: 115154

Ion	Ratio	Lower	Upper
202	100		
200	20.6	17.3	25.9
203	18.3	14.4	21.6

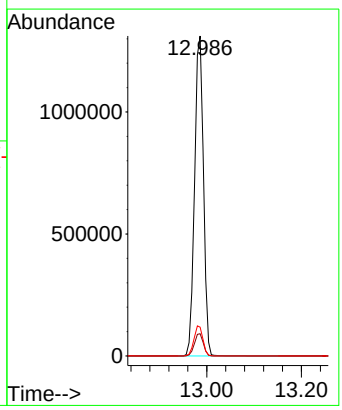


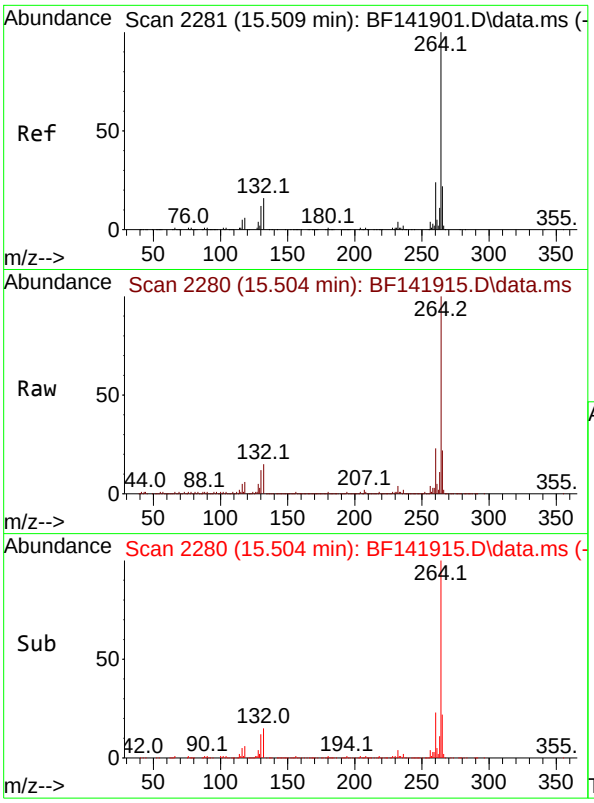


#79
Terphenyl-d14
Concen: 55.736 ng
RT: 12.986 min Scan# 1852
Delta R.T. 0.000 min
Lab File: BF141915.D
Acq: 11 Mar 2025 14:26

Tgt Ion:244 Resp: 1706898

Ion	Ratio	Lower	Upper
244	100		
212	7.0	6.0	9.0
122	9.0	7.7	11.5



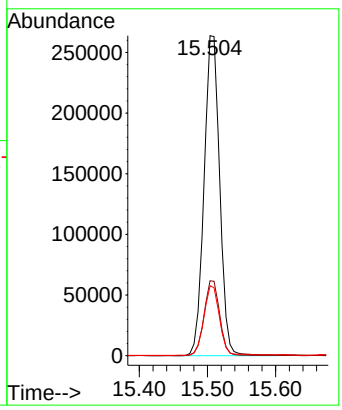


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.504 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF141915.D
Acq: 11 Mar 2025 14:26

Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

Tgt Ion:264 Resp: 421172

Ion	Ratio	Lower	Upper
264	100		
260	23.4	19.1	28.7
265	21.9	17.5	26.3



Sample Results: **BF141915.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141915.D
Acq On : 11 Mar 2025 14:26
Operator : RC/JU
Sample : Q1514-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF141915.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.157	4	11	47	rVB	902161	1644492	36.09%	3.883%
2	5.492	572	578	597	rBV	2050013	2742709	60.19%	6.476%
3	6.498	742	749	761	rBV	1979535	2806861	61.60%	6.628%
4	6.881	808	814	819	rBV	716657	910527	19.98%	2.150%
5	7.434	902	908	914	rBV	1415872	1893267	41.55%	4.470%
6	7.686	946	951	958	rBV	53256	67470	1.48%	0.159%
7	8.157	1026	1031	1040	rBV	981458	1238574	27.18%	2.925%
8	9.233	1208	1214	1219	rBV	3193412	3995772	87.69%	9.435%
9	9.910	1324	1329	1334	rBV	1181179	1488984	32.68%	3.516%
10	10.622	1445	1450	1455	rBV	409166	515356	11.31%	1.217%
11	10.698	1457	1463	1475	rBV	2150339	2746486	60.27%	6.485%
12	11.398	1577	1582	1590	rBV2	1238546	1772966	38.91%	4.186%
13	11.851	1654	1659	1660	rVV2	34167	58319	1.28%	0.138%
14	11.921	1661	1671	1683	rVV	1202517	2517203	55.24%	5.944%
15	12.010	1683	1686	1693	rVV	57285	113655	2.49%	0.268%
16	12.080	1694	1698	1705	rVB6	23454	48218	1.06%	0.114%
17	12.292	1721	1734	1750	rVB	1434236	4556693	100.00%	10.759%
18	12.439	1754	1759	1763	rBV3	61933	93641	2.06%	0.221%
19	12.610	1784	1788	1795	rVV	275720	523198	11.48%	1.235%
20	12.704	1796	1804	1818	rVV	1576896	3205032	70.34%	7.568%
21	12.839	1822	1827	1842	rVB	219574	475117	10.43%	1.122%
22	12.986	1846	1852	1857	rVB	3373523	4448617	97.63%	10.504%
23	13.163	1876	1882	1886	rVB2	29937	57324	1.26%	0.135%
24	13.227	1888	1893	1897	rBV3	34622	67906	1.49%	0.160%
25	13.674	1962	1969	1978	rVB3	82718	220941	4.85%	0.522%
26	13.904	2001	2008	2022	rBV5	123709	422434	9.27%	0.997%
27	14.033	2024	2030	2040	rVB	995436	1435243	31.50%	3.389%
28	14.198	2055	2058	2063	rVB	42037	54055	1.19%	0.128%
29	14.298	2070	2075	2080	rBV	68981	122483	2.69%	0.289%
30	14.504	2106	2110	2114	rBV	74700	103921	2.28%	0.245%
31	14.662	2133	2137	2145	rVB	62224	97681	2.14%	0.231%
32	14.815	2158	2163	2172	rBV	122025	241512	5.30%	0.570%
33	14.892	2173	2176	2182	rVB	45671	60407	1.33%	0.143%
34	15.074	2203	2207	2215	rVB	65123	137581	3.02%	0.325%
35	15.157	2217	2221	2227	rBV2	80322	122613	2.69%	0.290%
36	15.380	2255	2259	2265	rBV2	44779	102787	2.26%	0.243%

Sample Results: **BF141915.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141915.D
Acq On : 11 Mar 2025 14:26
Operator : RC/JU
Sample : Q1514-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	15.439	2266	2269	2273	rVB	45996	63380	1.39%	0.150%
38	15.504	2275	2280	2286	rBV	683932	1113863	24.44%	2.630%
39	15.986	2358	2362	2367	rVB	40275	63306	1.39%	0.149%

Sum of corrected areas: 42350594

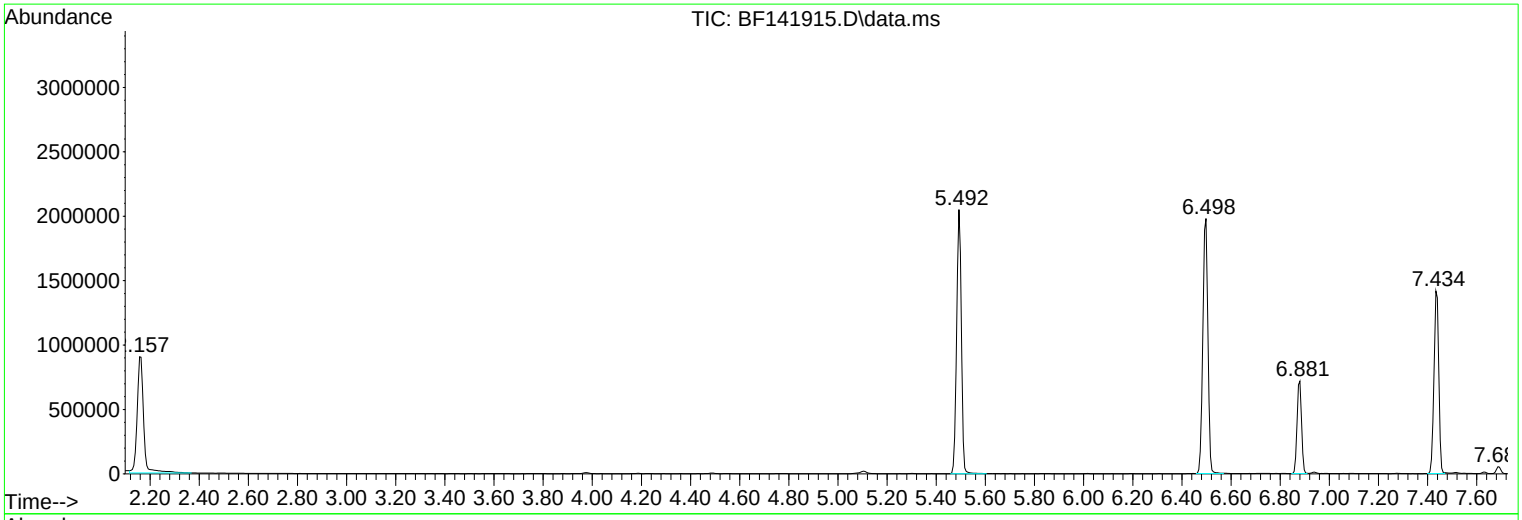
Sample Results: **BF141915.D**

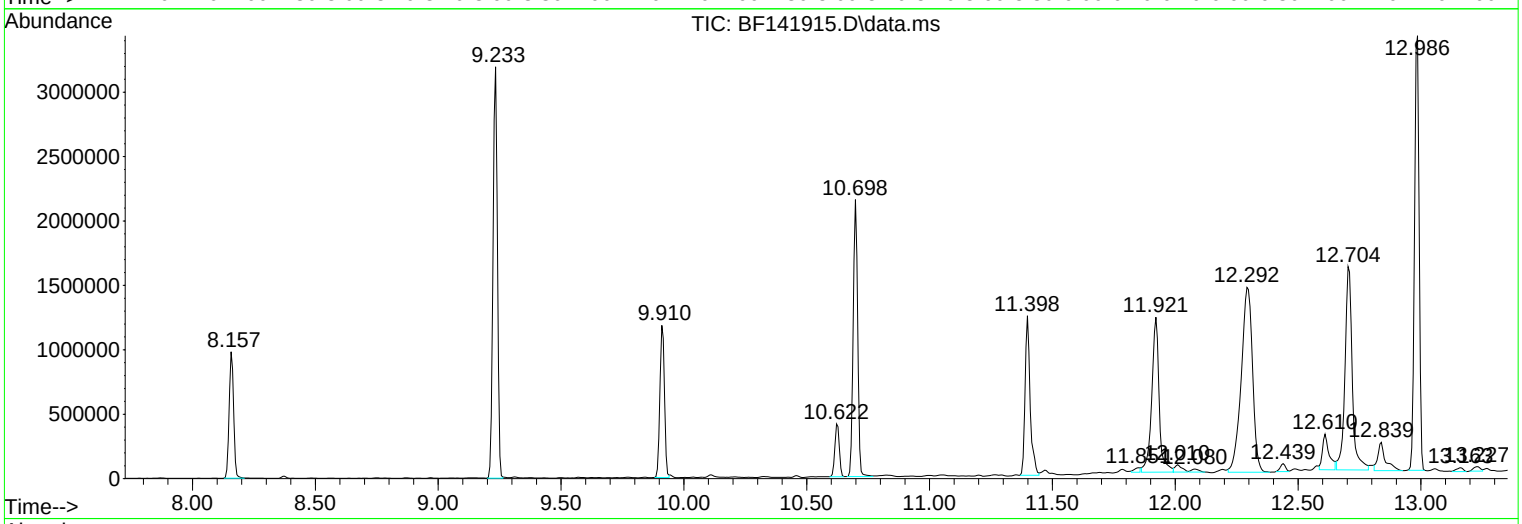
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141915.D
Acq On : 11 Mar 2025 14:26
Operator : RC/JU
Sample : Q1514-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

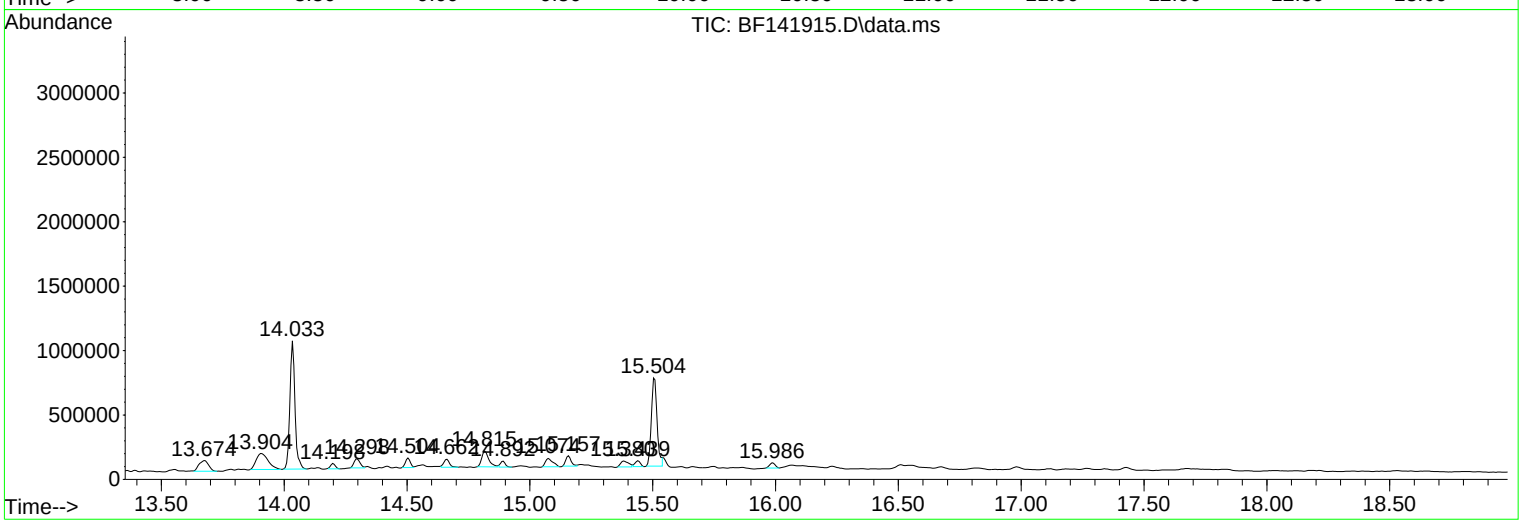
Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Sample Results: **BF141915.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141915.D
Acq On : 11 Mar 2025 14:26
Operator : RC/JU
Sample : Q1514-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

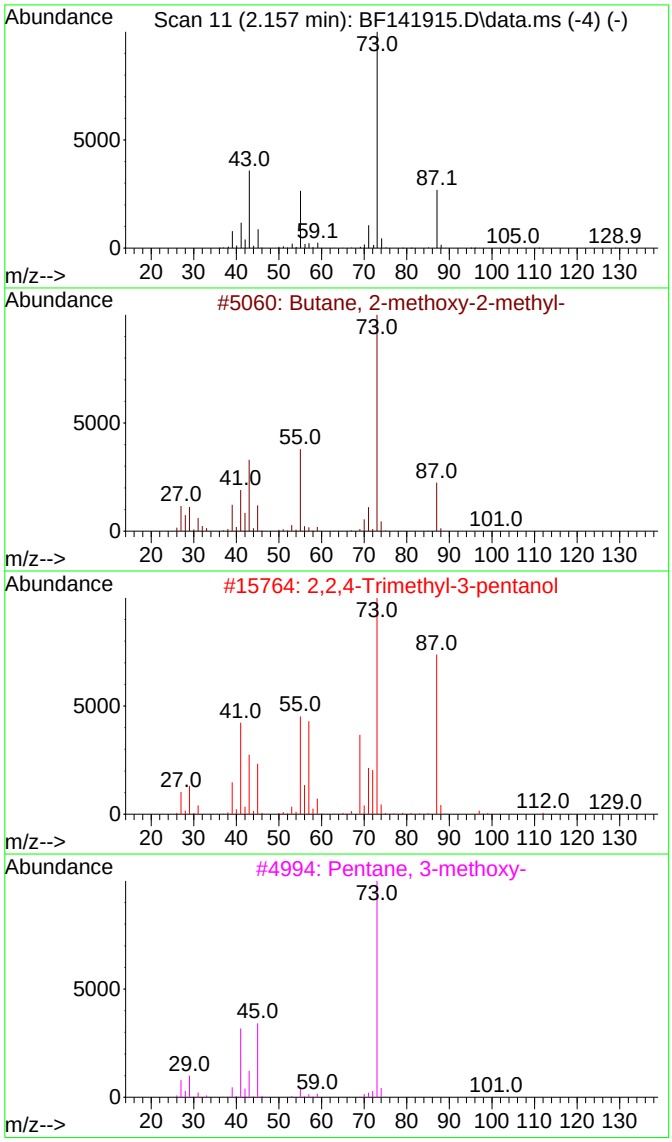
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

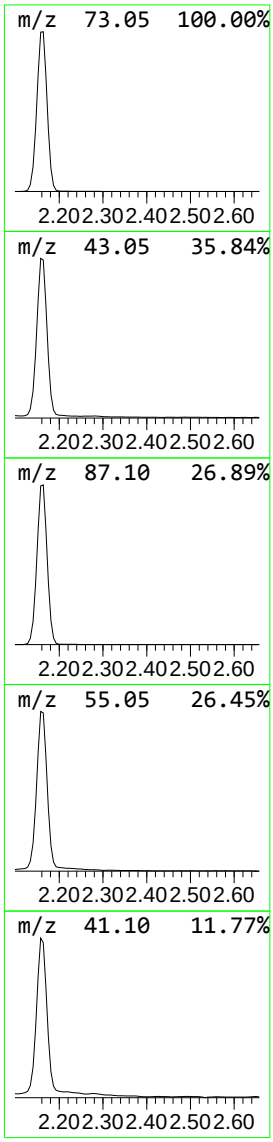
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.157	36.12 ng	1644490	1,4-Dichlorobenzene-d4	6.881

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	23
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	9
5	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141915.D
Acq On : 11 Mar 2025 14:26
Operator : RC/JU
Sample : Q1514-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

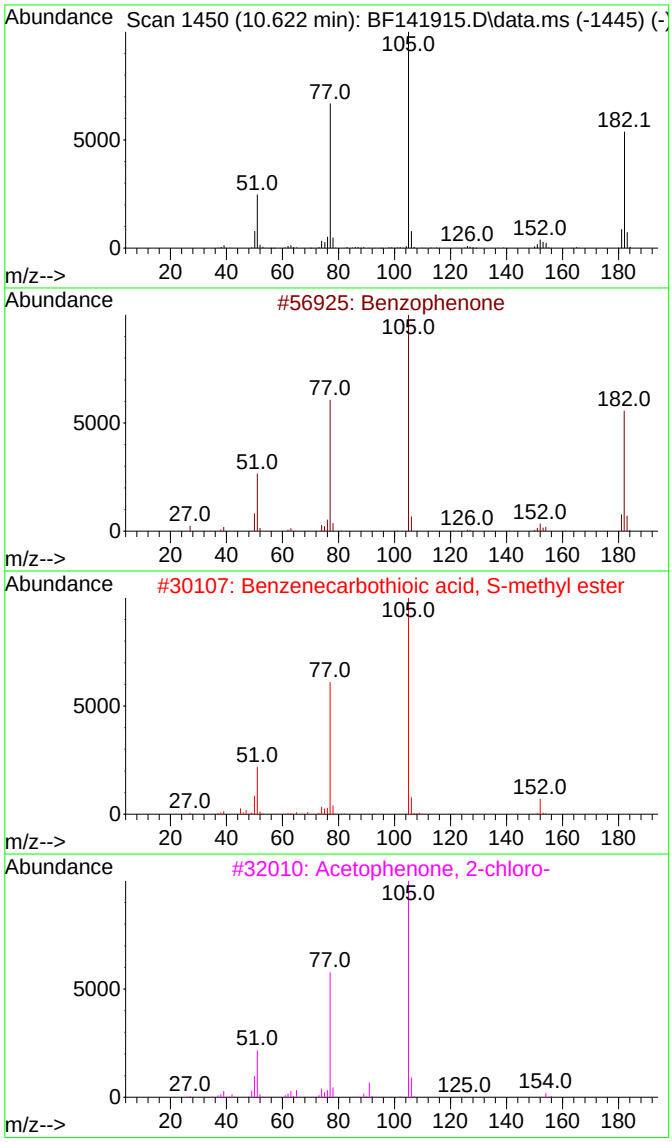
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

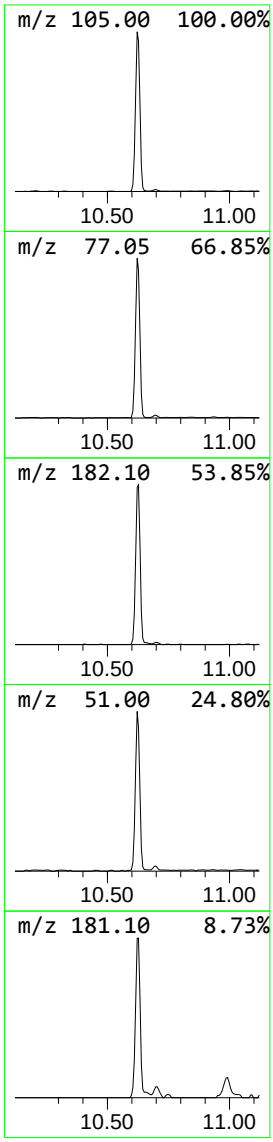
****

Peak Number 2 Benzophenone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.622	6.92 ng	515356	Acenaphthene-d10	9.910

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
3	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	49
4	Benzeneacetic acid, .alpha.-oxo-...	164	C9H8O3	015206-55-0	49
5	Disulfide, dibenzoyl	274	C14H10O2S2	000644-32-6	47





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Acq On : 11 Mar 2025 14:26
Operator : RC/JU
Sample : Q1514-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

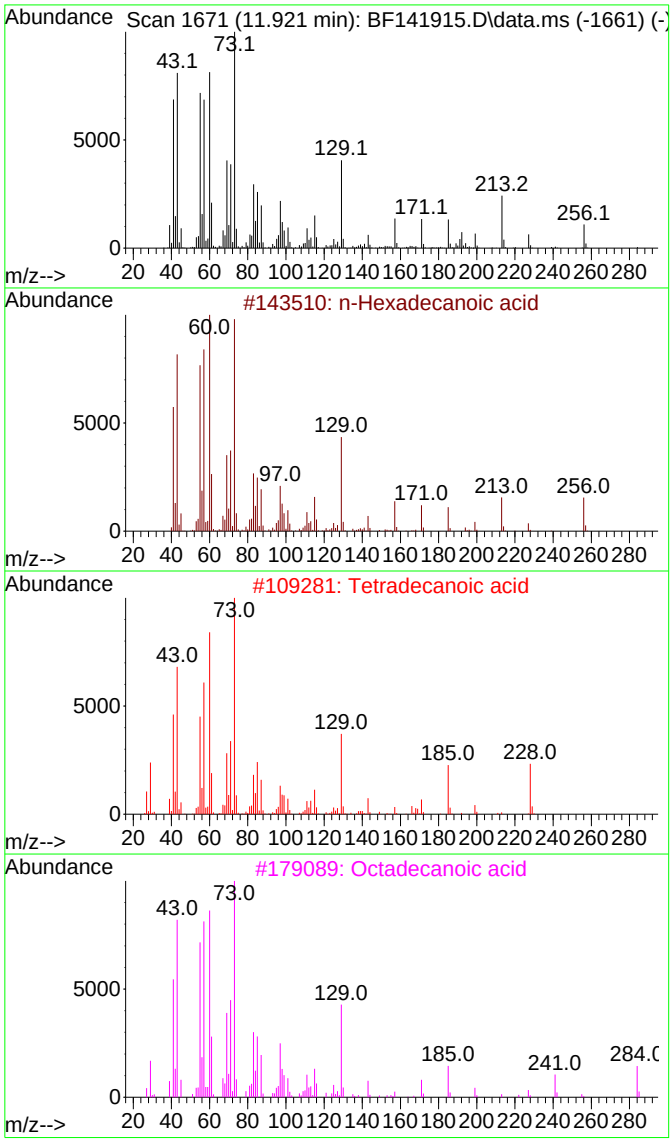
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

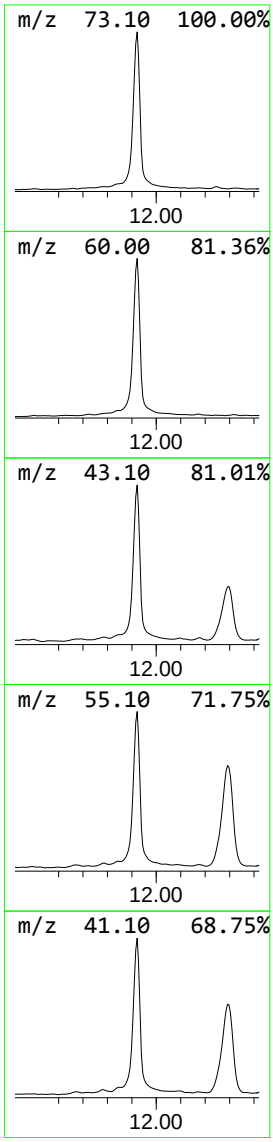
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.922	28.40 ng	2517200	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	95
3	Octadecanoic acid	284	C18H36O2	000057-11-4	93
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	93
5	Tridecanoic acid	214	C13H26O2	000638-53-9	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
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Acq On : 11 Mar 2025 14:26
Operator : RC/JU
Sample : Q1514-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

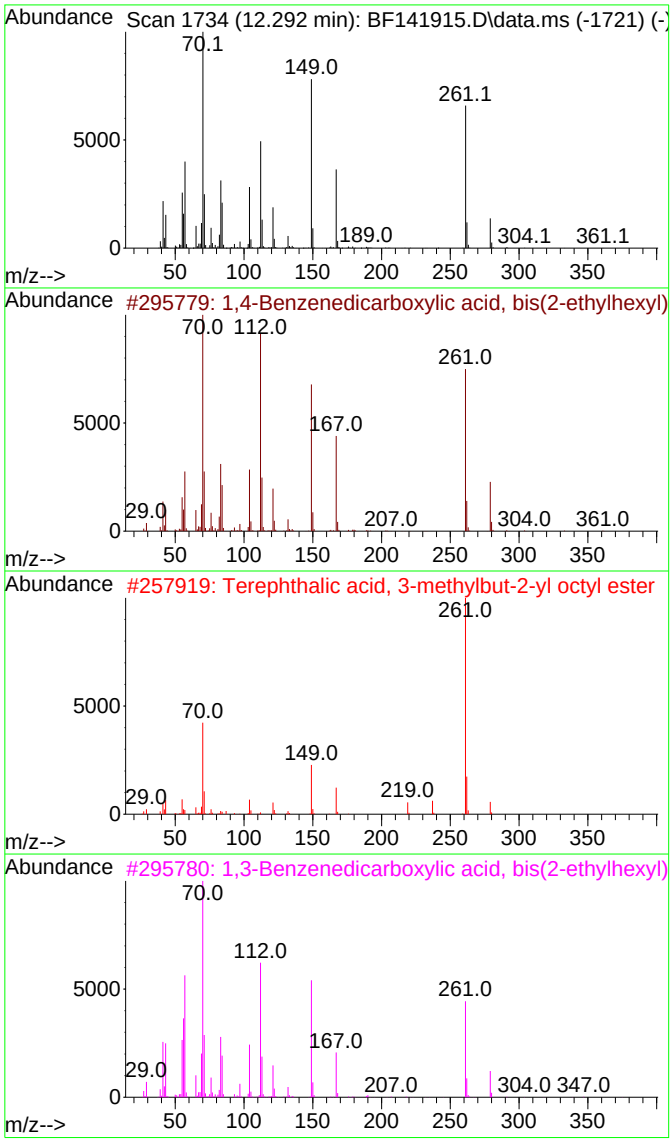
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

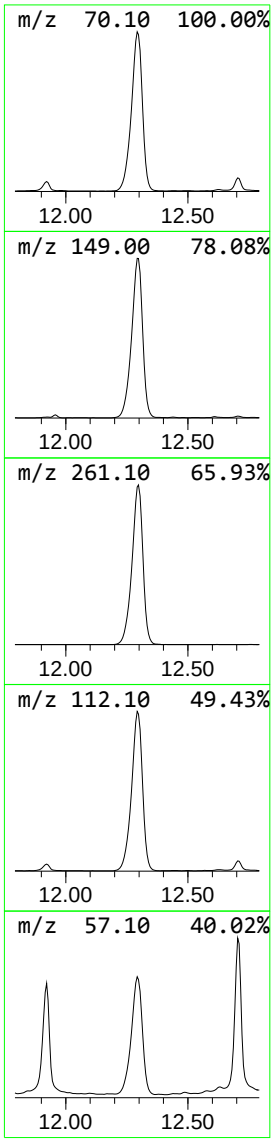
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 1,4-Benzenedicarboxylic aci... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.292	51.40 ng	4556690	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Benzenedicarboxylic acid, bi...	390	C24H38O4	006422-86-2	72
2	Terephthalic acid, 3-methylbut-2...	348	C21H32O4	1000356-27-6	64
3	1,3-Benzenedicarboxylic acid, bi...	390	C24H38O4	000137-89-3	49
4	Terephthalic acid, monochloride,...	296	C16H21ClO3	1000324-22-9	43
5	Terephthalic acid, 4-octyl octyl...	390	C24H38O4	1000323-73-7	38





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
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Acq On : 11 Mar 2025 14:26
Operator : RC/JU
Sample : Q1514-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

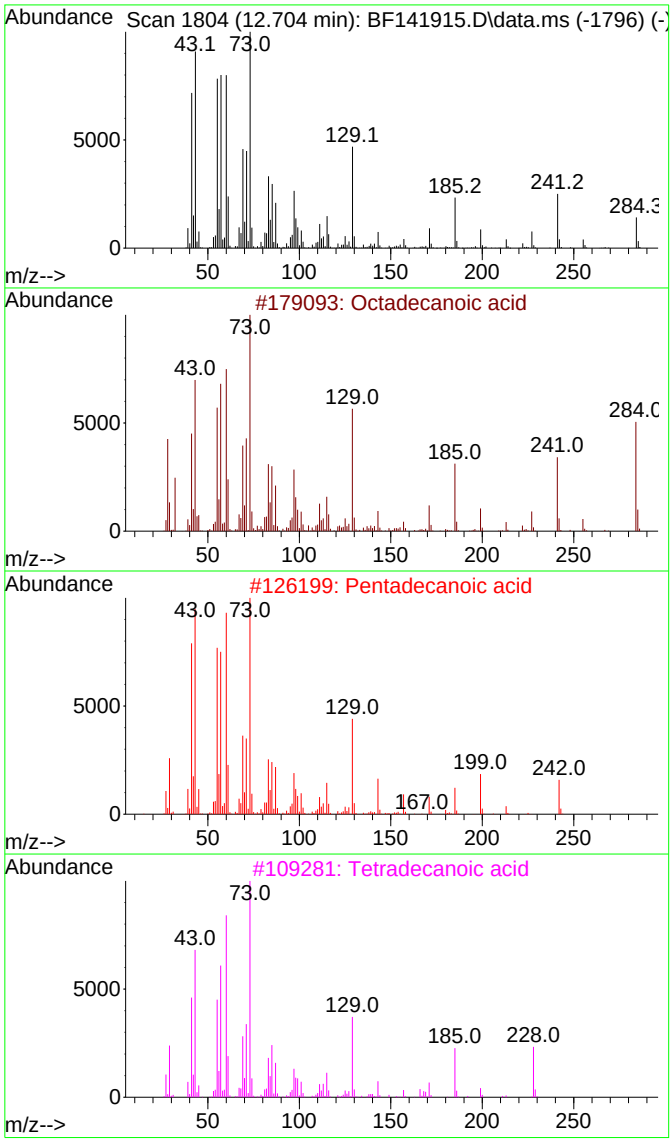
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

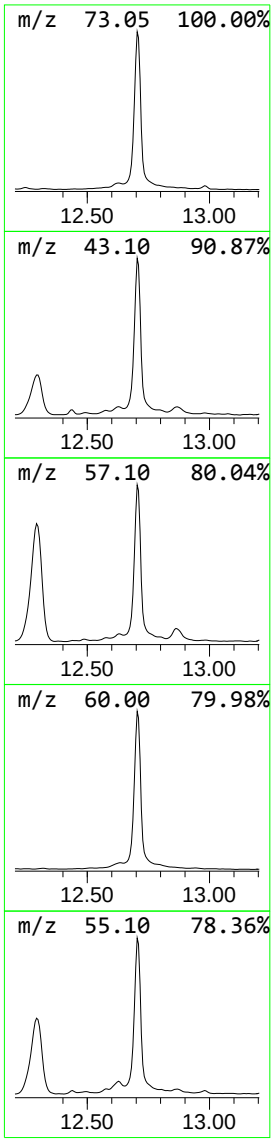
****

Peak Number 5 Octadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.704	36.15 ng	3205030	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	89
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	87
4	n-Decanoic acid	172	C10H20O2	000334-48-5	70
5	Tridecanoic acid	214	C13H26O2	000638-53-9	68





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141915.D
Acq On : 11 Mar 2025 14:26
Operator : RC/JU
Sample : Q1514-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

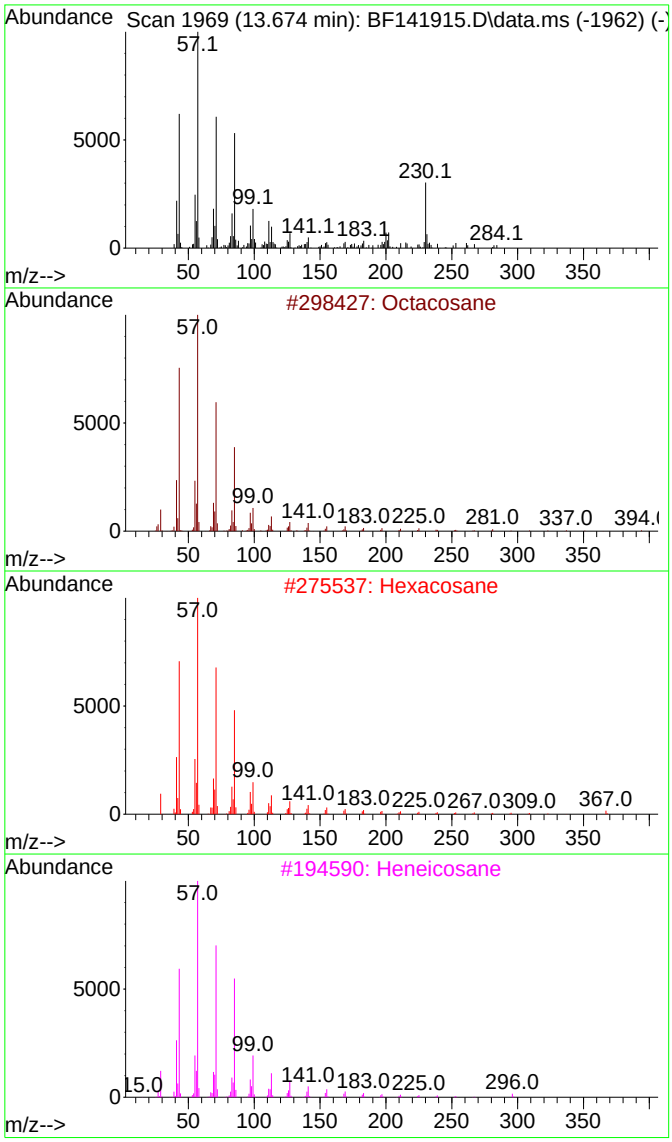
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

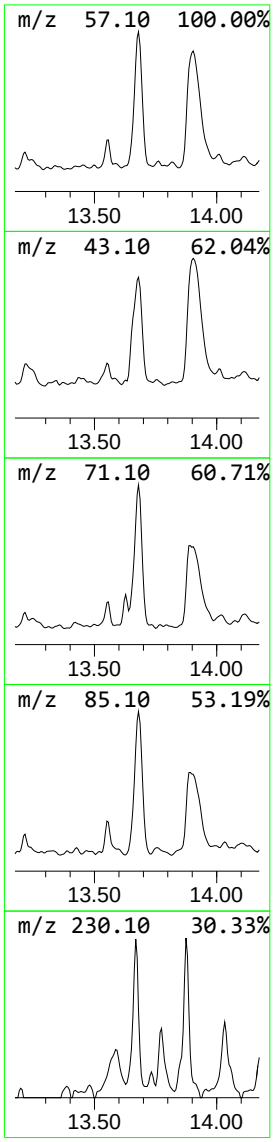
****

Peak Number 6 Octacosane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.674	3.08 ng	220941	Chrysene-d12	14.033

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	76
2	Hexacosane	366	C26H54	000630-01-3	74
3	Heneicosane	296	C21H44	000629-94-7	74
4	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	72
5	Tetratetracontane	619	C44H90	007098-22-8	70





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Acq On : 11 Mar 2025 14:26
Operator : RC/JU
Sample : Q1514-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

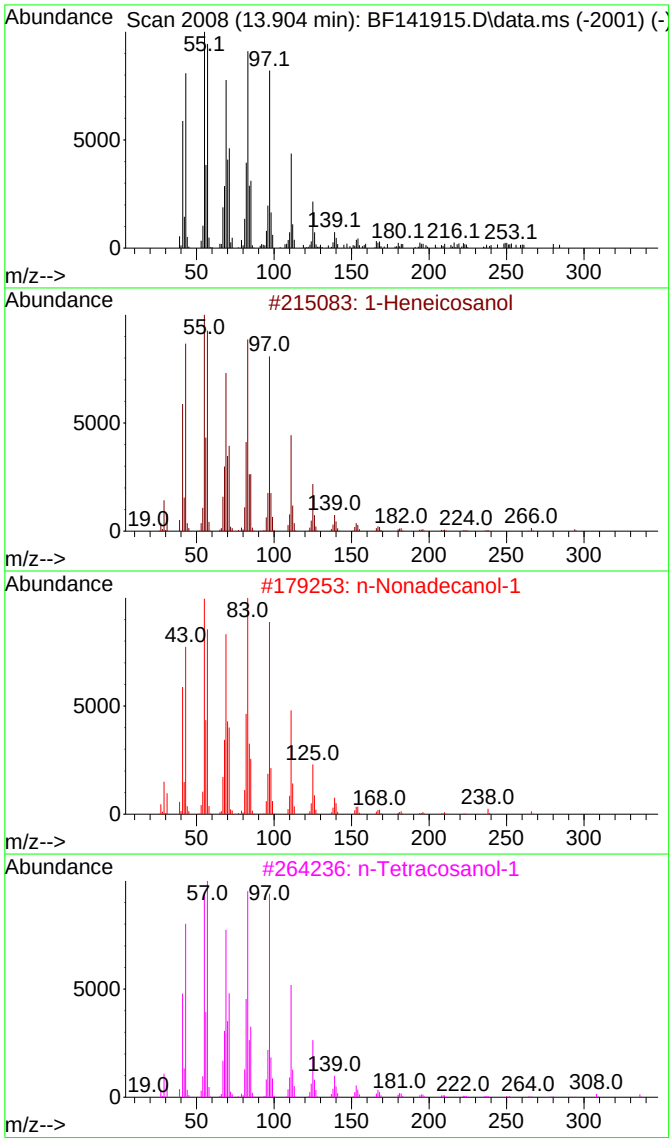
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

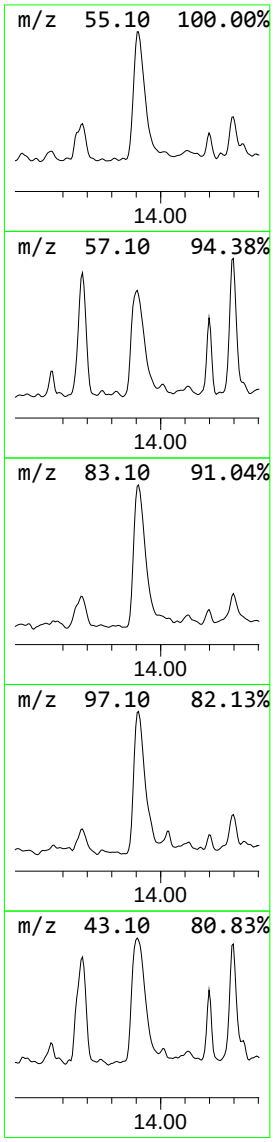
****

Peak Number 7 1-Heneicosanol Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	5.89 ng	422434	Chrysene-d12	14.033

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Heneicosanol	312	C21H44O	015594-90-8	95
2	n-Nonadecanol-1	284	C19H40O	001454-84-8	95
3	n-Tetracosanol-1	354	C24H50O	000506-51-4	95
4	Behenic alcohol	326	C22H46O	000661-19-8	95
5	3-Eicosene, (E)-	280	C20H40	074685-33-9	95





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141915.D
Acq On : 11 Mar 2025 14:26
Operator : RC/JU
Sample : Q1514-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

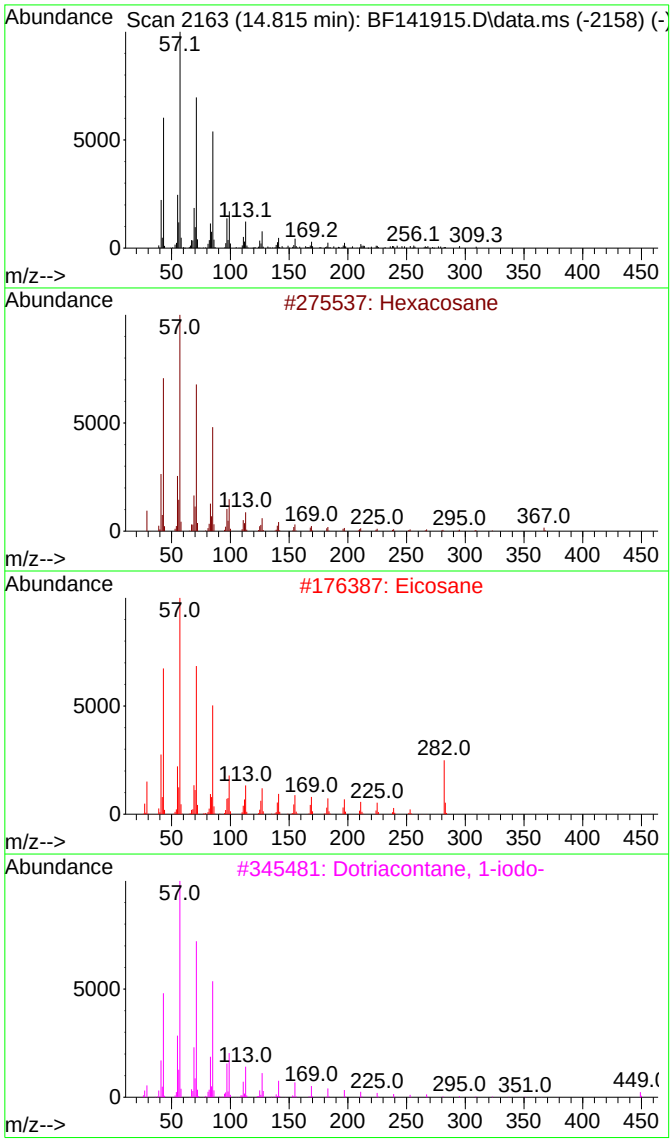
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

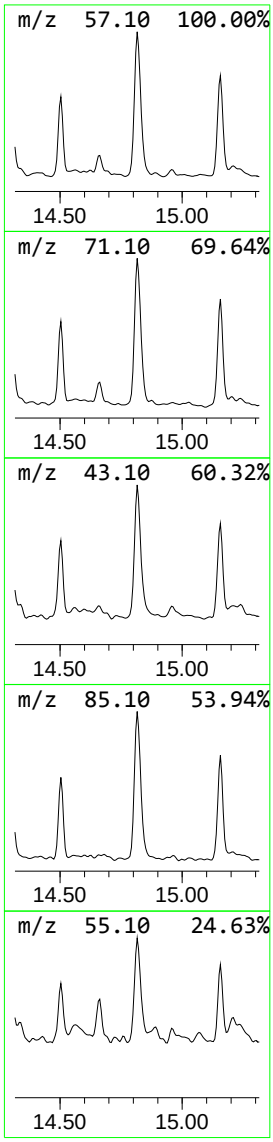
****

Peak Number 8 Hexacosane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.815	4.34 ng	241512	Perylene-d12	15.504

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexacosane	366	C26H54	000630-01-3	94
2	Eicosane	282	C20H42	000112-95-8	93
3	Dotriacontane, 1-iodo-	576	C32H65I	1000406-32-4	90
4	Heneicosane	296	C21H44	000629-94-7	90
5	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	90





Sample Results: **BF141915.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141915.D
Acq On : 11 Mar 2025 14:26
Operator : RC/JU
Sample : Q1514-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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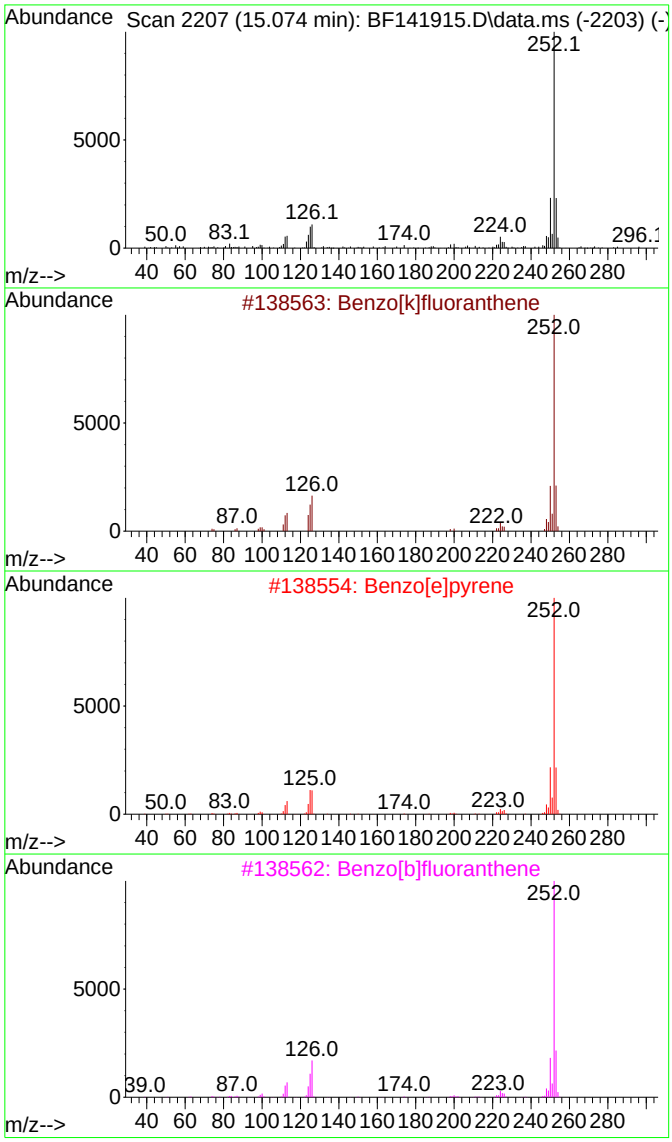
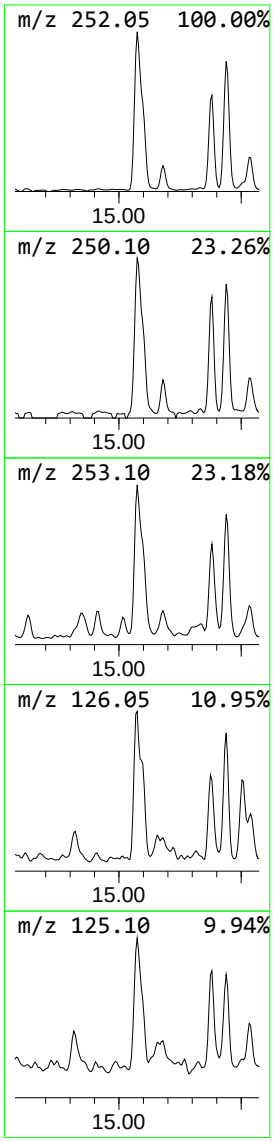
Peak Number 9 Benzo[e]pyrene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.074	2.47 ng	137581	Perylene-d12	15.504

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[k]fluoranthene	252	C20H12	000207-08-9	96
2	Benzo[e]pyrene	252	C20H12	000192-97-2	96
3	Benzo[b]fluoranthene	252	C20H12	000205-99-2	94
4	Benzo[a]pyrene	252	C20H12	000050-32-8	94
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





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Acq On : 11 Mar 2025 14:26
Operator : RC/JU
Sample : Q1514-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

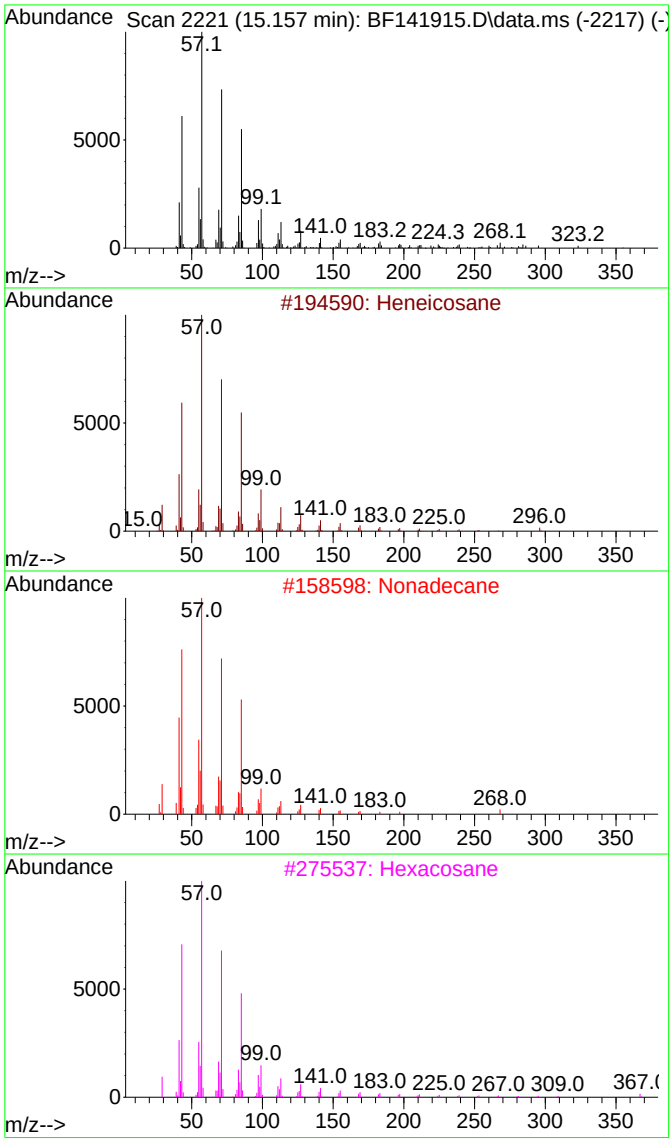
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

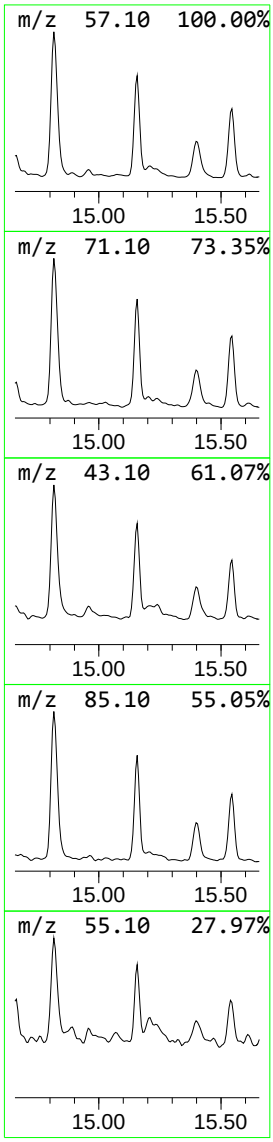
****

Peak Number 10 Heneicosane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.157	2.20 ng	122613	Perylene-d12	15.504

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	91
2	Nonadecane	268	C19H40	000629-92-5	91
3	Hexacosane	366	C26H54	000630-01-3	91
4	Heneicosane, 11-(1-ethylpropyl)-	366	C26H54	055282-11-6	91
5	Octacosane	394	C28H58	000630-02-4	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF031125\
Data File : BF141915.D
Acq On : 11 Mar 2025 14:26
Operator : RC/JU
Sample : Q1514-05
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ENV-103-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF031025.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.157	36.1	ng	1644490	1	6.881	910527	20.0
Benzophenone	10.622	6.9	ng	515356	3	9.910	1488980	20.0
n-Hexadecanoic ...	11.922	28.4	ng	2517200	4	11.398	1772970	20.0
1,4-Benzenedica...	12.292	51.4	ng	4556690	4	11.398	1772970	20.0
Octadecanoic acid	12.704	36.1	ng	3205030	4	11.398	1772970	20.0
Octacosane	13.674	3.1	ng	220941	5	14.033	1435240	20.0
1-Heneicosanol	13.904	5.9	ng	422434	5	14.033	1435240	20.0
Hexacosane	14.815	4.3	ng	241512	6	15.504	1113860	20.0
Benzo[e]pyrene	15.074	2.5	ng	137581	6	15.504	1113860	20.0
Heneicosane	15.157	2.2	ng	122613	6	15.504	1113860	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064063.D
Acq On : 7 Mar 2025 17:40
Operator : RC/JU
Sample : Q1514-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-105-GW01

Quant Time: Mar 07 22:56:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

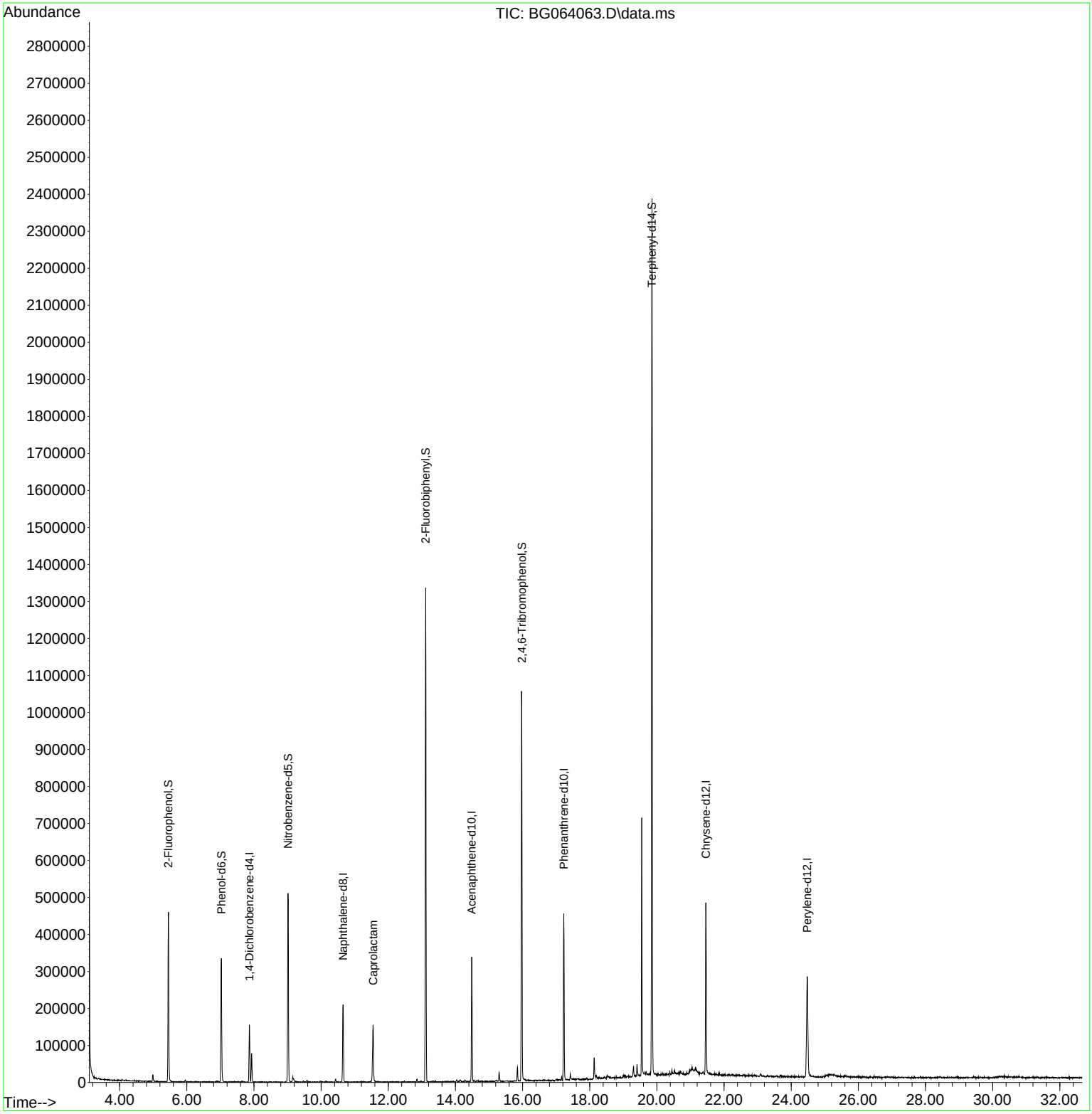
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.862	152	37672	20.000	ng	# 0.00
21) Naphthalene-d8	10.653	136	163817	20.000	ng	0.00
39) Acenaphthene-d10	14.484	164	111944	20.000	ng	0.00
64) Phenanthrene-d10	17.227	188	252643	20.000	ng	0.00
76) Chrysene-d12	21.458	240	258476	20.000	ng	0.00
86) Perylene-d12	24.478	264	269422	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.453	112	179568	74.428	ng	0.00
7) Phenol-d6	7.028	99	160997	49.053	ng	0.00
23) Nitrobenzene-d5	9.014	82	272348	91.874	ng	0.00
42) 2,4,6-Tribromophenol	15.976	330	176739	142.035	ng	0.00
45) 2-Fluorobiphenyl	13.115	172	618595	83.877	ng	0.00
79) Terphenyl-d14	19.854	244	1084057	84.803	ng	0.00
Target Compounds						Qvalue
35) Caprolactam	11.552	113	22875	26.577	ng	88

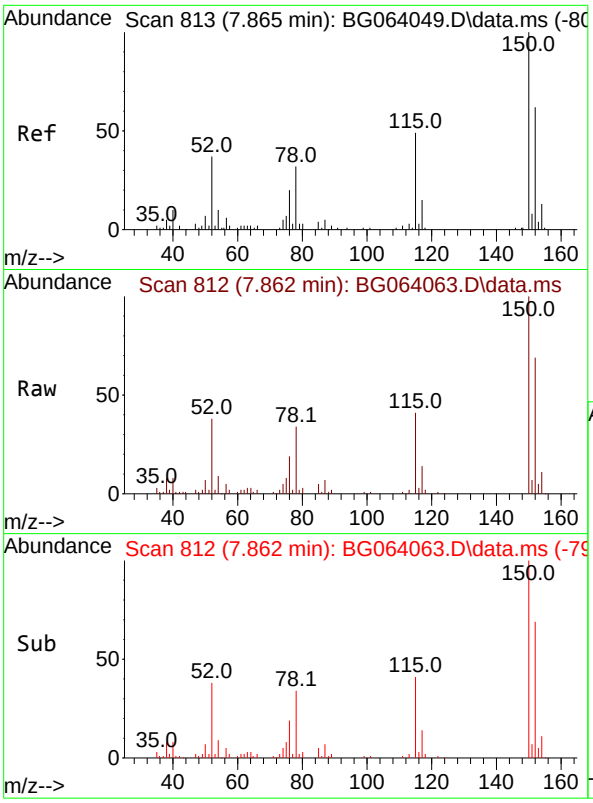
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064063.D
Acq On : 7 Mar 2025 17:40
Operator : RC/JU
Sample : Q1514-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-105-GW01

Quant Time: Mar 07 22:56:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



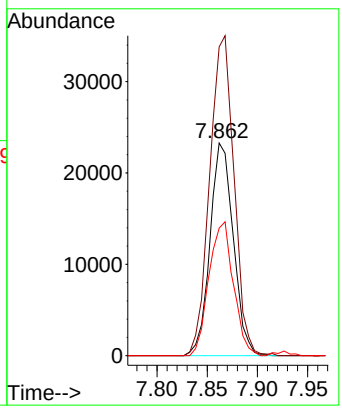


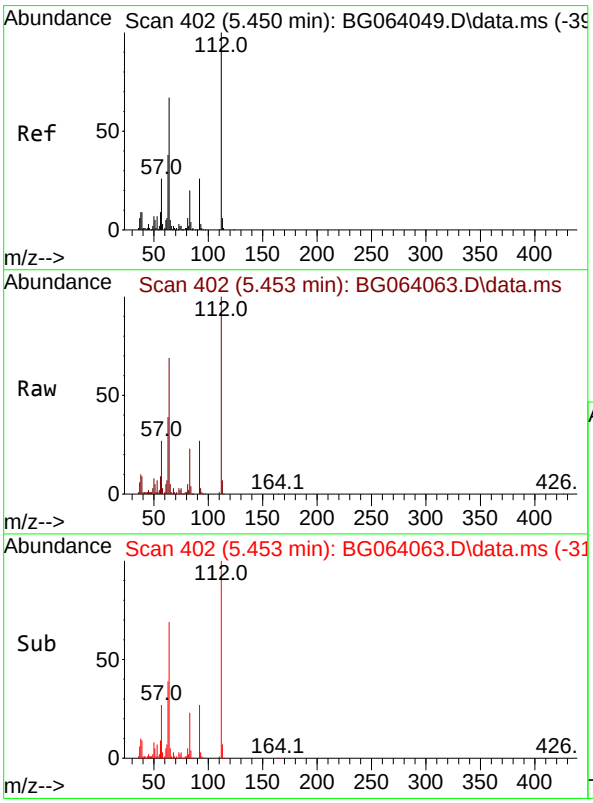
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.862 min Scan# 81
Delta R.T. -0.003 min
Lab File: BG064063.D
Acq: 7 Mar 2025 17:40

Instrument :
BNA_G
ClientSampleId :
ENV-105-GW01

Tgt Ion:152 Resp: 37672

Ion	Ratio	Lower	Upper
152	100		
150	145.2	129.2	193.8
115	60.0	63.0	94.6#

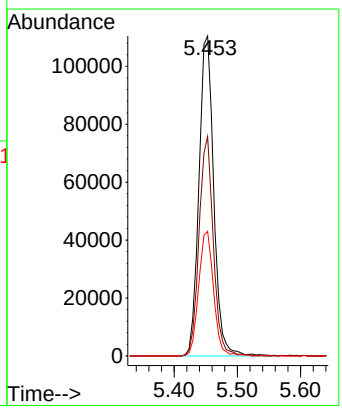


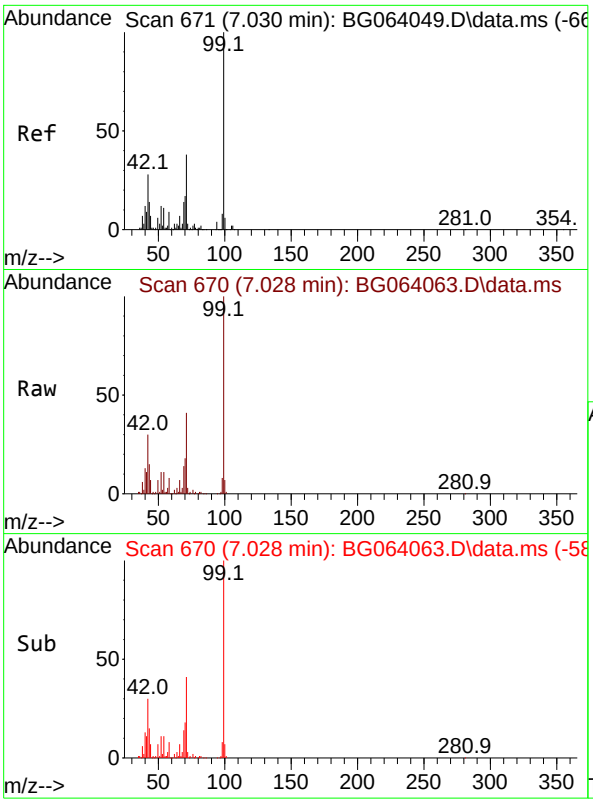


#5
2-Fluorophenol
Concen: 74.428 ng
RT: 5.453 min Scan# 402
Delta R.T. 0.003 min
Lab File: BG064063.D
Acq: 7 Mar 2025 17:40

Tgt Ion:112 Resp: 179568

Ion	Ratio	Lower	Upper
112	100		
64	68.5	53.7	80.5
63	39.0	30.2	45.4



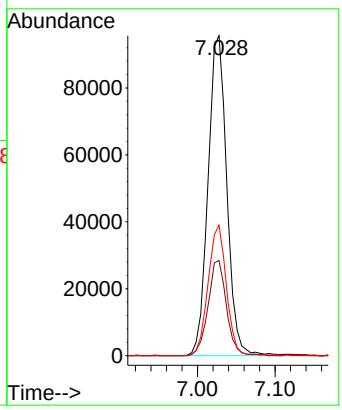


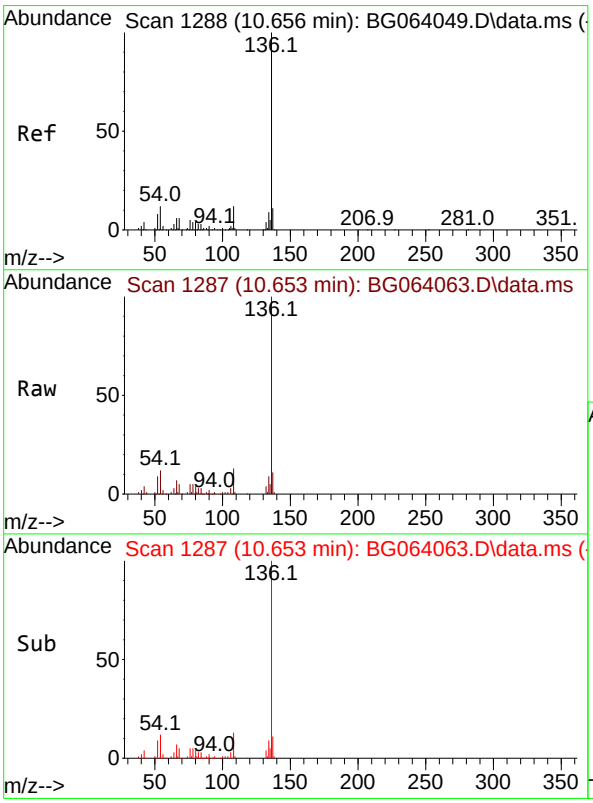
#7
Phenol-d6
Concen: 49.053 ng
RT: 7.028 min Scan# 6
Delta R.T. -0.003 min
Lab File: BG064063.D
Acq: 7 Mar 2025 17:40

Instrument :
BNA_G
ClientSampleId :
ENV-105-GW01

Tgt Ion: 99 Resp: 160997

Ion	Ratio	Lower	Upper
99	100		
42	29.8	22.7	34.1
71	40.7	30.6	46.0

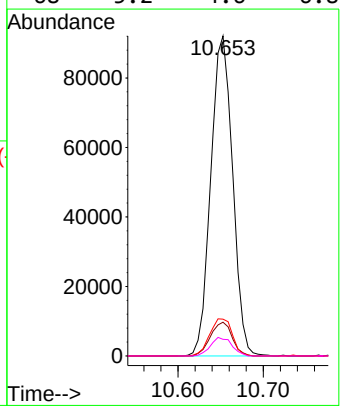


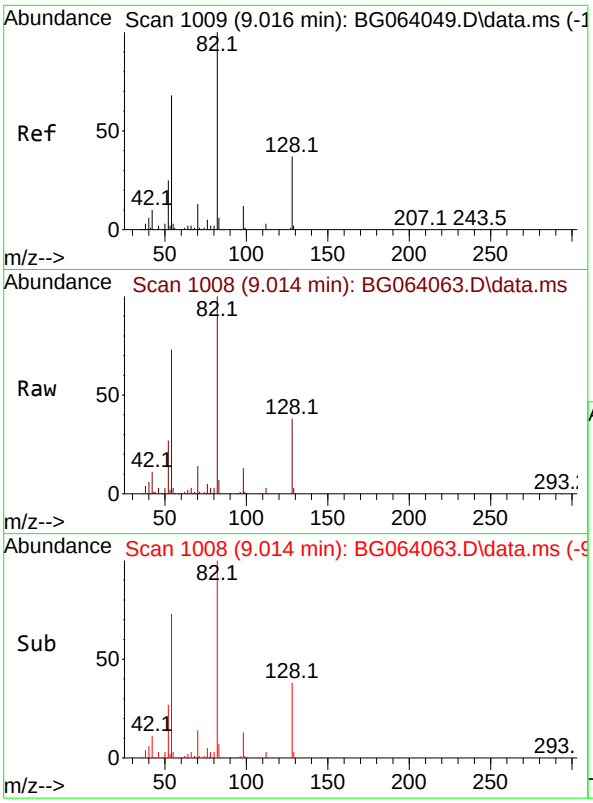


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.653 min Scan# 1287
Delta R.T. -0.003 min
Lab File: BG064063.D
Acq: 7 Mar 2025 17:40

Tgt Ion:136 Resp: 163817

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.5	12.7
54	11.5	9.9	14.9
68	5.2	4.6	6.8



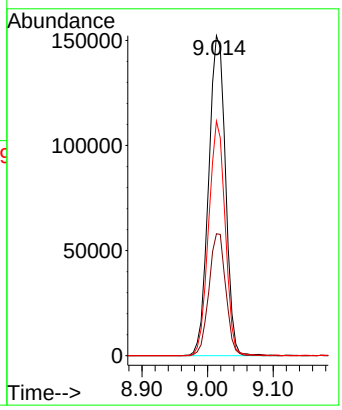


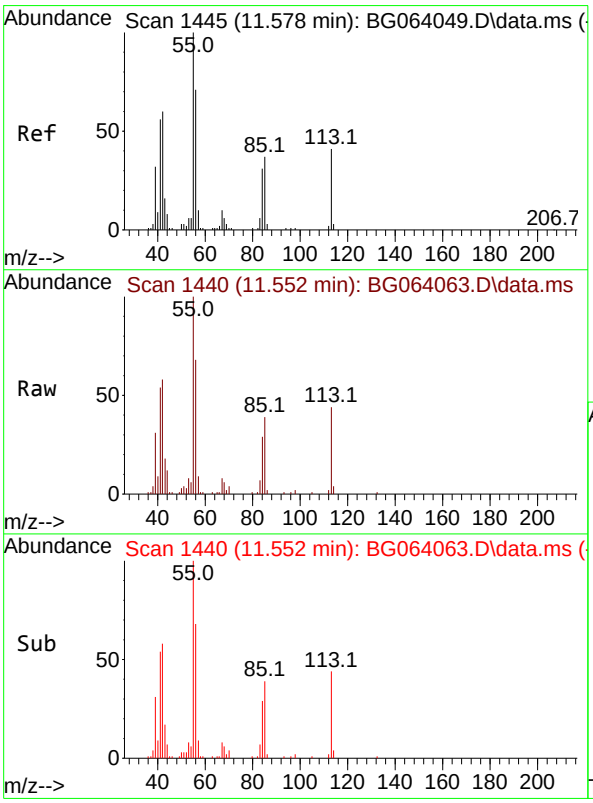
#23
Nitrobenzene-d5
Concen: 91.874 ng
RT: 9.014 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064063.D
Acq: 7 Mar 2025 17:40

Instrument :
BNA_G
ClientSampleId :
ENV-105-GW01

Tgt Ion: 82 Resp: 272348

Ion	Ratio	Lower	Upper
82	100		
128	38.1	30.0	45.0
54	73.3	54.7	82.1

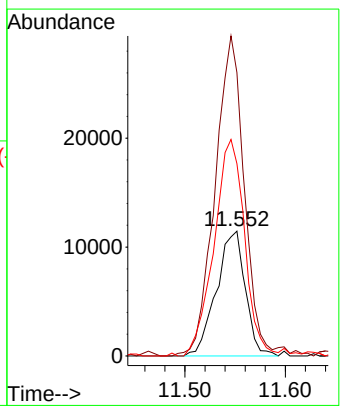


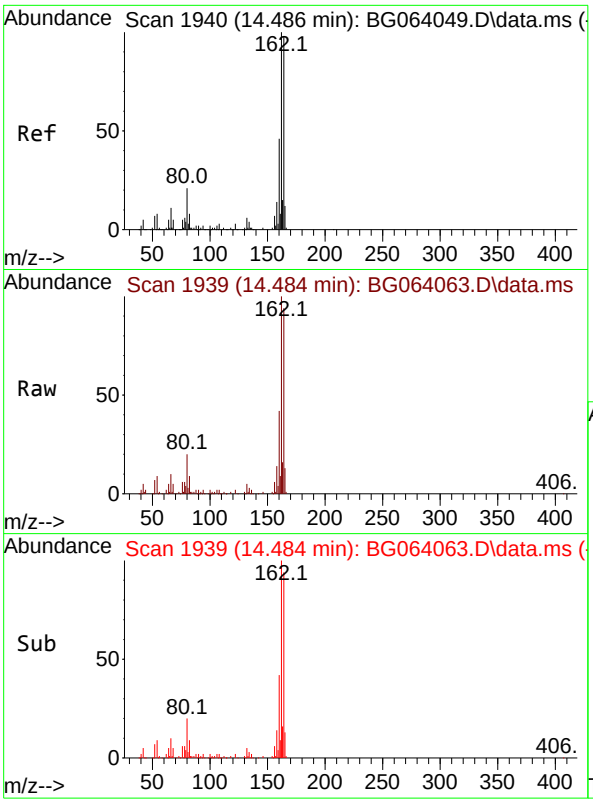


#35
Caprolactam
Concen: 26.577 ng
RT: 11.552 min Scan# 1440
Delta R.T. -0.026 min
Lab File: BG064063.D
Acq: 7 Mar 2025 17:40

Tgt Ion:113 Resp: 22875

Ion	Ratio	Lower	Upper
113	100		
55	227.1	225.2	265.2
56	154.1	153.4	193.4



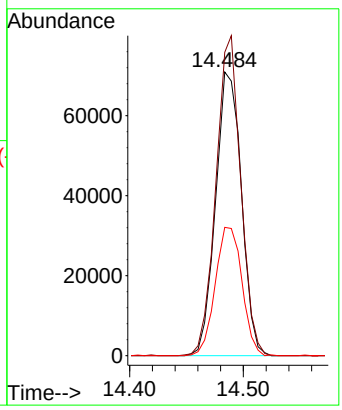


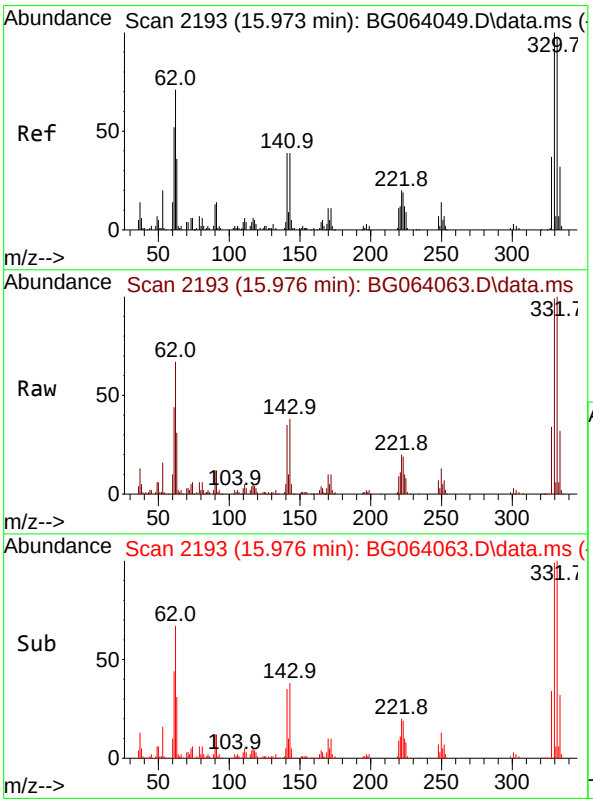
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.484 min Scan# 1
Delta R.T. -0.002 min
Lab File: BG064063.D
Acq: 7 Mar 2025 17:40

Instrument :
BNA_G
ClientSampleId :
ENV-105-GW01

Tgt Ion:164 Resp: 111944

Ion	Ratio	Lower	Upper
164	100		
162	106.9	81.4	122.0
160	45.3	37.0	55.6

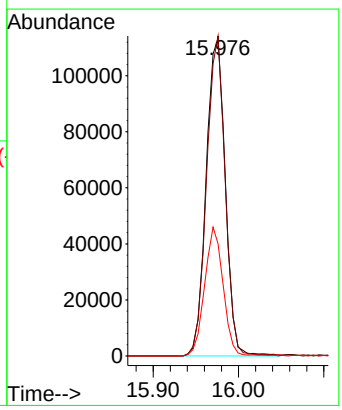


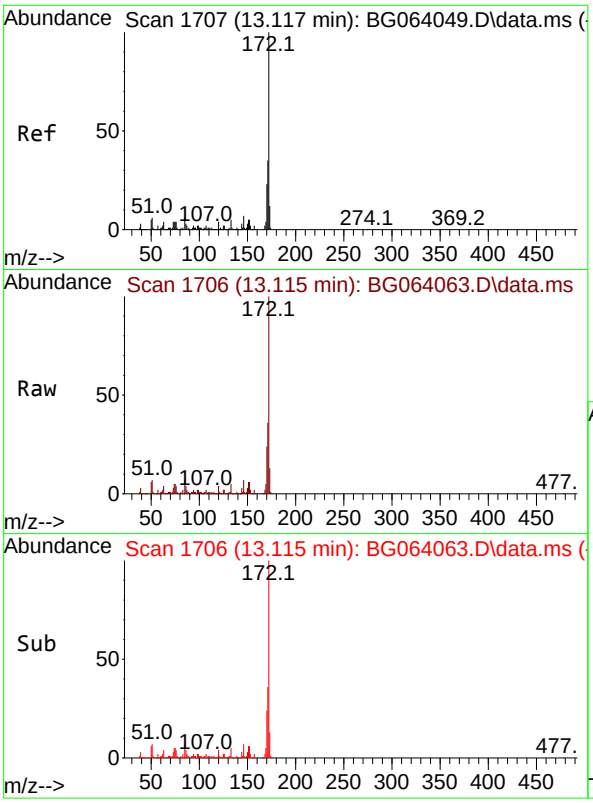


#42
2,4,6-Tribromophenol
Concen: 142.035 ng
RT: 15.976 min Scan# 2193
Delta R.T. 0.003 min
Lab File: BG064063.D
Acq: 7 Mar 2025 17:40

Tgt Ion:330 Resp: 176739

Ion	Ratio	Lower	Upper
330	100		
332	97.8	76.7	115.1
141	39.2	29.7	44.5



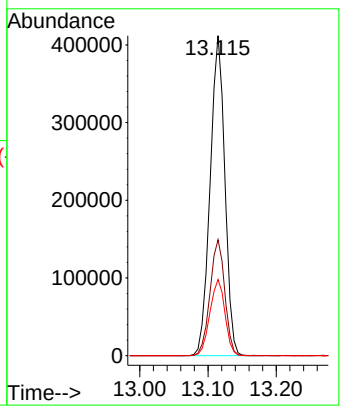


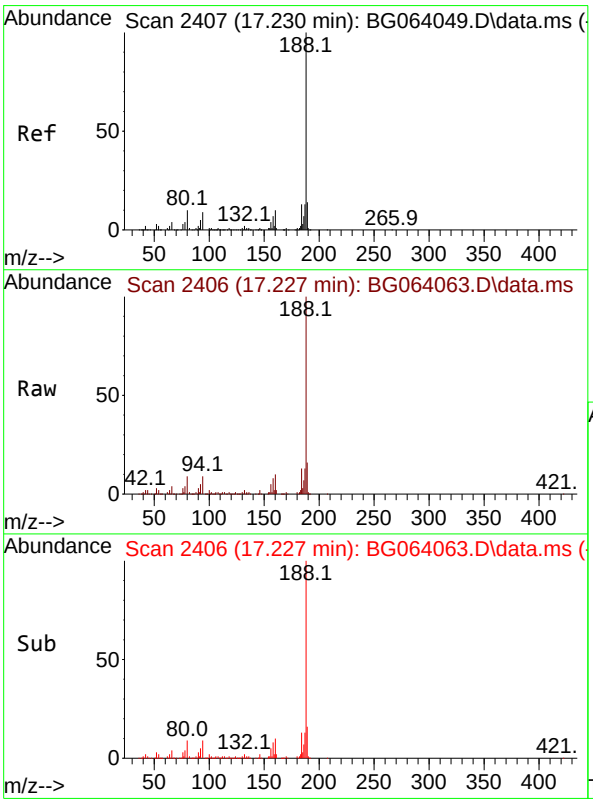
#45
2-Fluorobiphenyl
Concen: 83.877 ng
RT: 13.115 min Scan# 1
Delta R.T. -0.003 min
Lab File: BG064063.D
Acq: 7 Mar 2025 17:40

Instrument :
BNA_G
ClientSampleId :
ENV-105-GW01

Tgt Ion:172 Resp: 618595

Ion	Ratio	Lower	Upper
172	100		
171	36.3	28.0	42.0
170	23.8	18.7	28.1

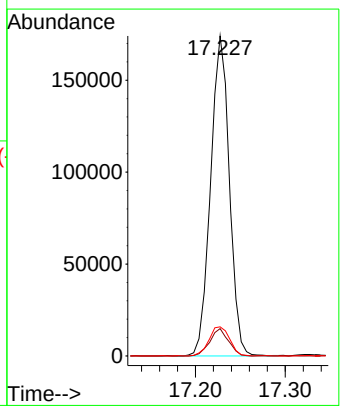


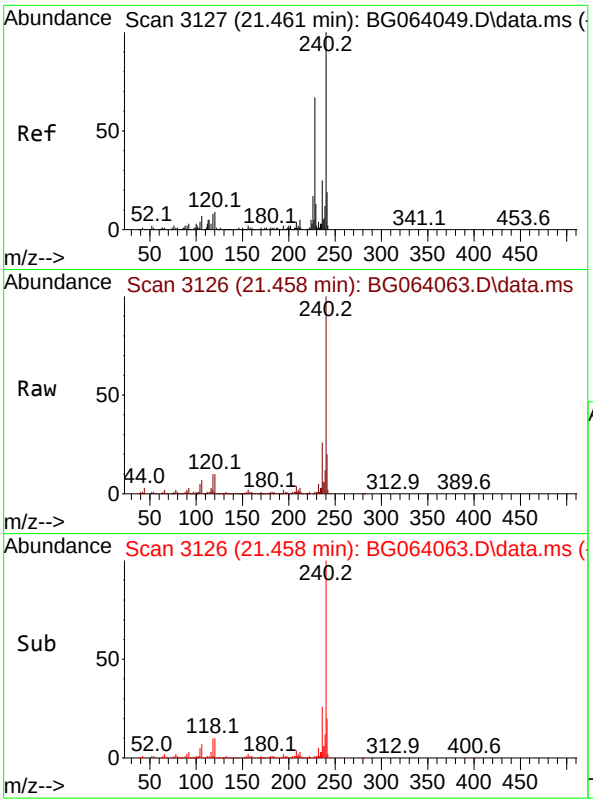


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.227 min Scan# 2406
Delta R.T. -0.003 min
Lab File: BG064063.D
Acq: 7 Mar 2025 17:40

Tgt Ion:188 Resp: 252643

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.9	10.3
80	9.1	8.1	12.1



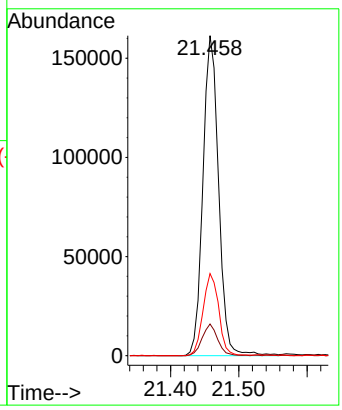


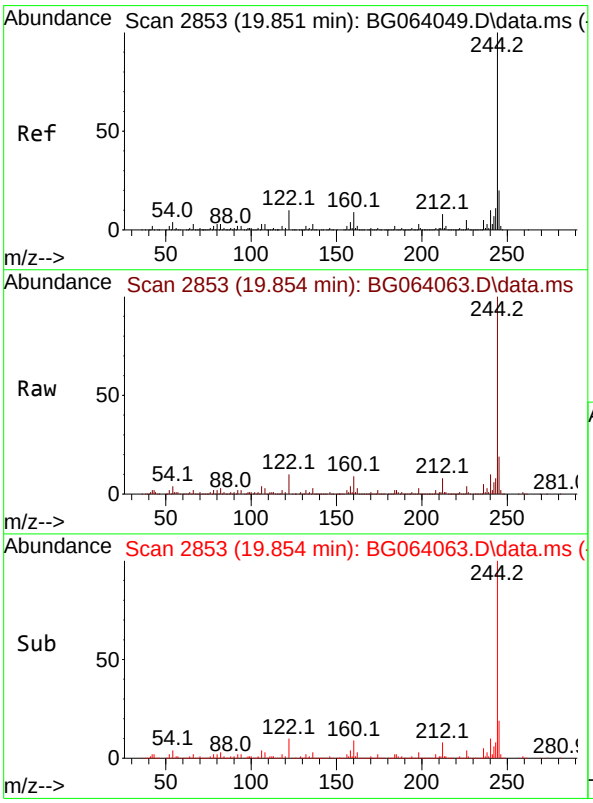
#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.458 min Scan# 3
Delta R.T. -0.003 min
Lab File: BG064063.D
Acq: 7 Mar 2025 17:40

Instrument :
BNA_G
ClientSampleId :
ENV-105-GW01

Tgt Ion:240 Resp: 258476

Ion	Ratio	Lower	Upper
240	100		
120	9.9	7.2	10.8
236	25.6	20.2	30.2

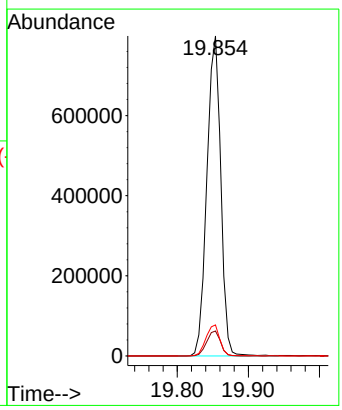


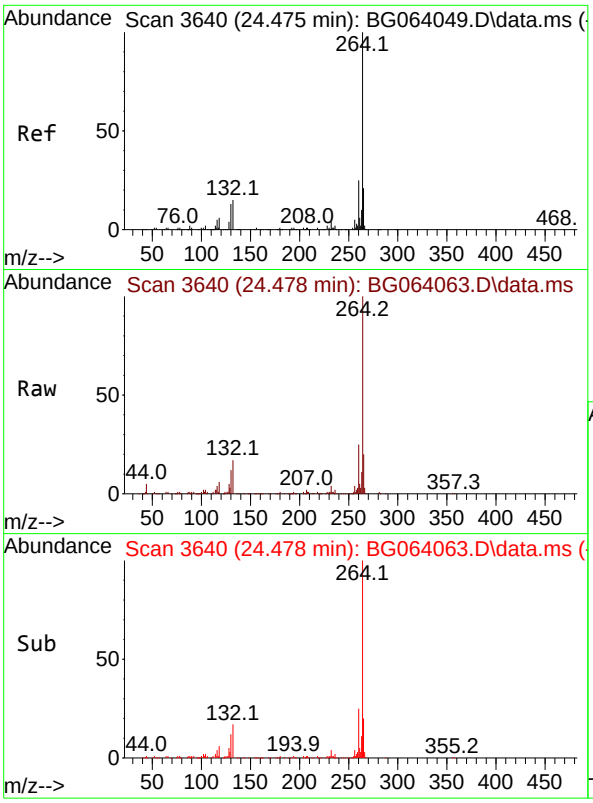


#79
Terphenyl-d14
Concen: 84.803 ng
RT: 19.854 min Scan# 2853
Delta R.T. 0.003 min
Lab File: BG064063.D
Acq: 7 Mar 2025 17:40

Tgt Ion:244 Resp: 1084057

Ion	Ratio	Lower	Upper
244	100		
212	7.8	6.2	9.4
122	9.7	8.0	12.0



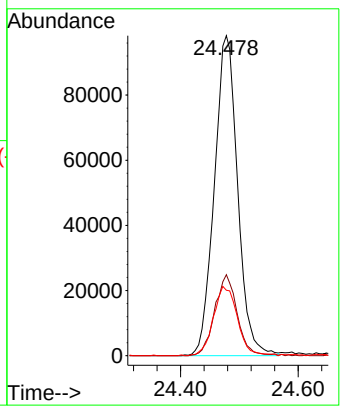


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.478 min Scan# 3
Delta R.T. 0.003 min
Lab File: BG064063.D
Acq: 7 Mar 2025 17:40

Instrument :
BNA_G
ClientSampleId :
ENV-105-GW01

Tgt Ion:264 Resp: 269422

Ion	Ratio	Lower	Upper
264	100		
260	25.3	19.6	29.4
265	20.4	16.6	25.0



Sample Results: **BG064063.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064063.D
Acq On : 7 Mar 2025 17:40
Operator : RC/JU
Sample : Q1514-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-105-GW01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BG064063.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.453	393	402	415	rBV	457818	730979	21.53%	5.180%
2	7.028	663	670	682	rBV	334594	571358	16.83%	4.049%
3	7.862	806	812	818	rBV	154941	257909	7.60%	1.828%
4	7.932	818	824	830	rVB	76034	120776	3.56%	0.856%
5	9.014	998	1008	1017	rBV	510352	903170	26.61%	6.401%
6	9.155	1027	1032	1043	rBV7	14393	36125	1.06%	0.256%
7	10.653	1279	1287	1295	rBV	208775	368138	10.84%	2.609%
8	11.546	1428	1439	1451	rBV2	153839	313984	9.25%	2.225%
9	13.115	1698	1706	1712	rBV	1334693	1996785	58.82%	14.151%
10	14.489	1933	1940	1947	rVB	336863	530790	15.64%	3.762%
11	15.300	2072	2078	2084	rBV4	24302	36780	1.08%	0.261%
12	15.847	2166	2171	2177	rVB	37679	54630	1.61%	0.387%
13	15.970	2185	2192	2202	rBV	1053502	1629722	48.01%	11.550%
14	17.227	2400	2406	2417	rBV	450989	671593	19.78%	4.760%
15	18.132	2554	2560	2567	rBV3	57970	95824	2.82%	0.679%
16	19.301	2754	2759	2764	rVB3	26081	39344	1.16%	0.279%
17	19.407	2773	2777	2783	rBV6	32733	47860	1.41%	0.339%
18	19.548	2796	2801	2812	rBV	697446	836344	24.64%	5.927%
19	19.854	2846	2853	2864	rBV	2365272	3394646	100.00%	24.058%
20	21.458	3120	3126	3137	rBV	462902	741526	21.84%	5.255%
21	24.478	3630	3640	3649	rBV2	270171	732084	21.57%	5.188%

Sum of corrected areas: 14110367

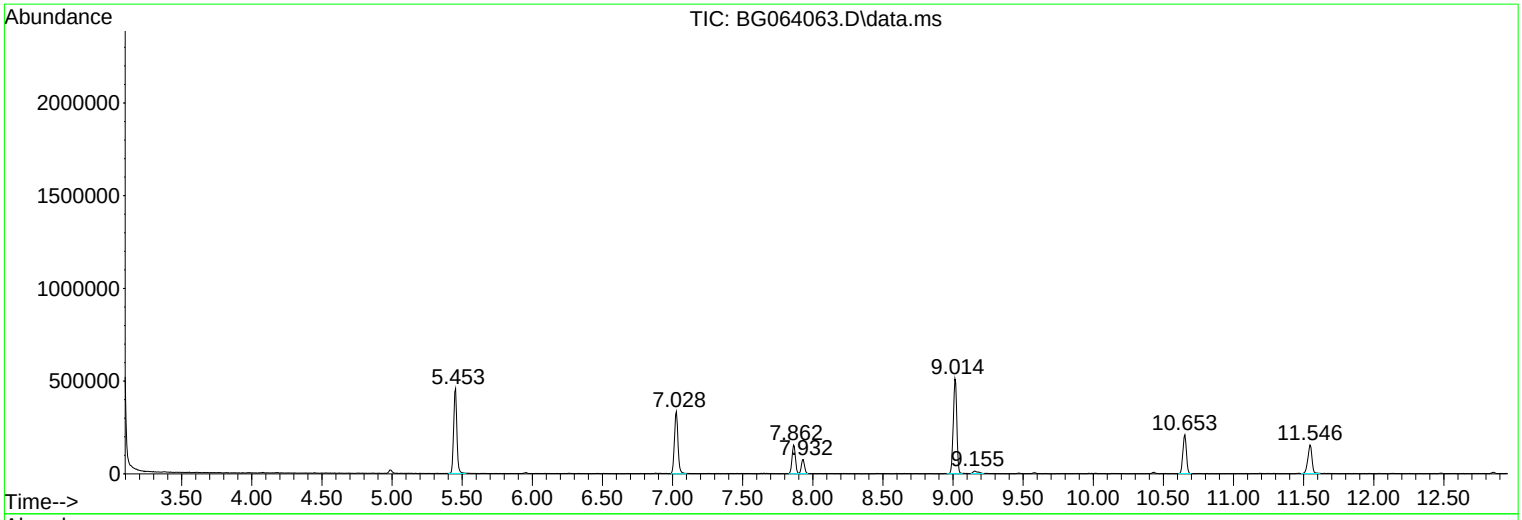
Sample Results: **BG064063.D**

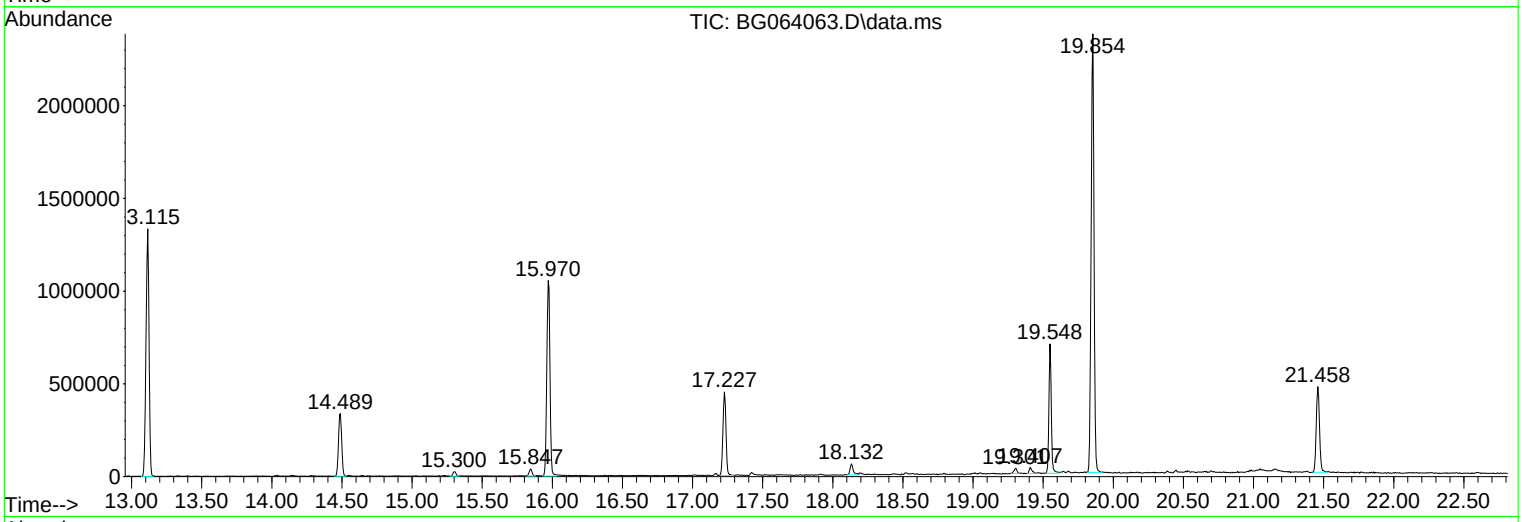
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064063.D
Acq On : 7 Mar 2025 17:40
Operator : RC/JU
Sample : Q1514-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

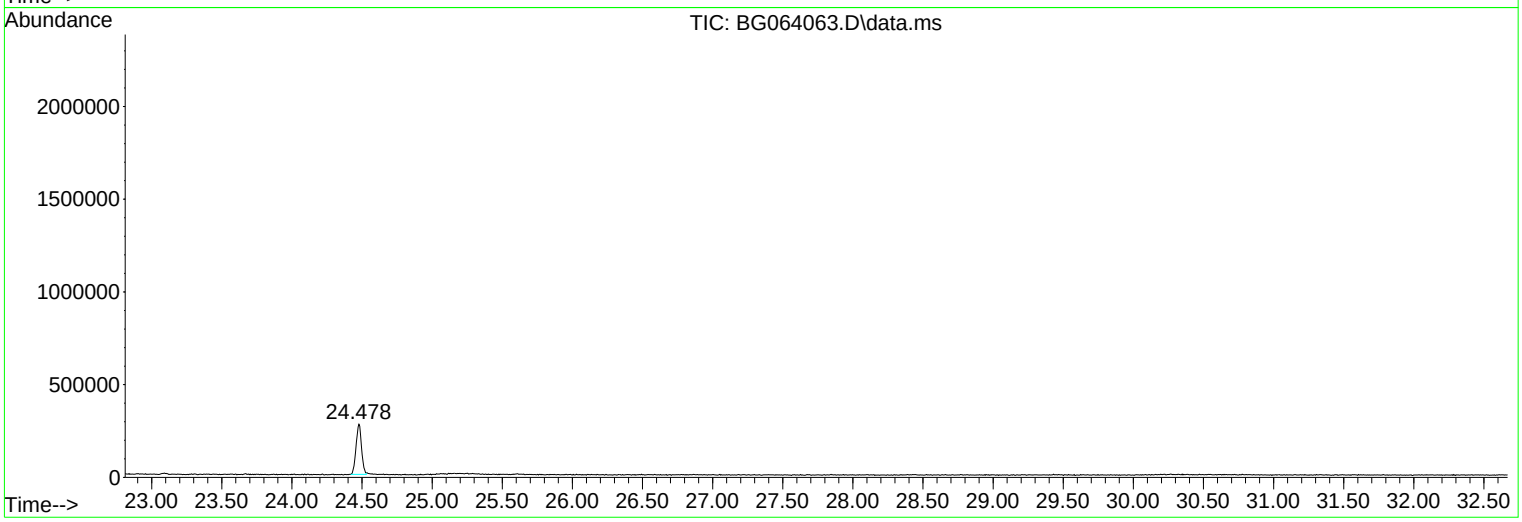
Instrument :
BNA_G
ClientSampleId :
ENV-105-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064063.D
Acq On : 7 Mar 2025 17:40
Operator : RC/JU
Sample : Q1514-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-105-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

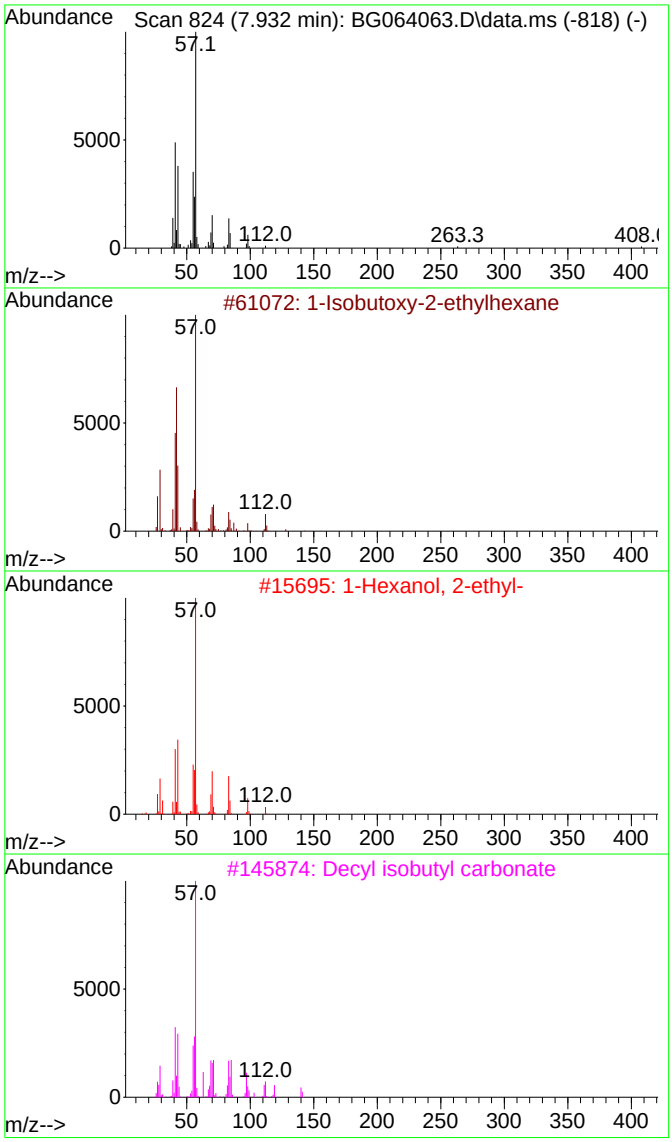
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

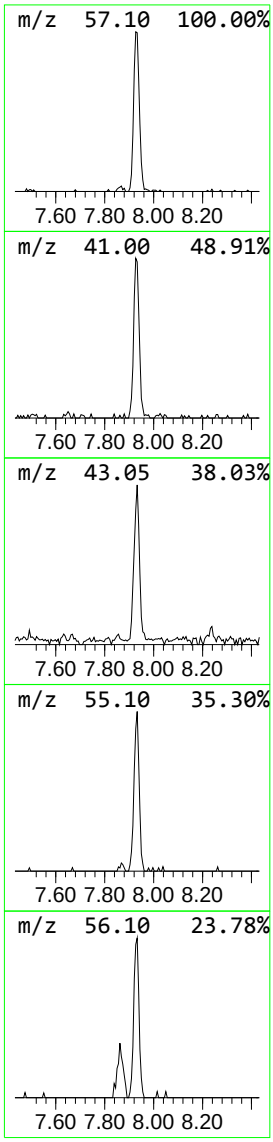
****

Peak Number 1 1-Isobutoxy-2-ethylhexane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.932	9.37 ng	120776	1,4-Dichlorobenzene-d4	7.862

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Isobutoxy-2-ethylhexane	186	C12H26O	1000139-90-3	72
2	1-Hexanol, 2-ethyl-	130	C8H18O	000104-76-7	59
3	Decyl isobutyl carbonate	258	C15H30O3	959226-07-4	56
4	Heptyl isobutyl carbonate	216	C12H24O3	959068-08-7	53
5	1-Hexene, 5,5-dimethyl-	112	C8H16	007116-86-1	50





Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064063.D
Acq On : 7 Mar 2025 17:40
Operator : RC/JU
Sample : Q1514-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-105-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

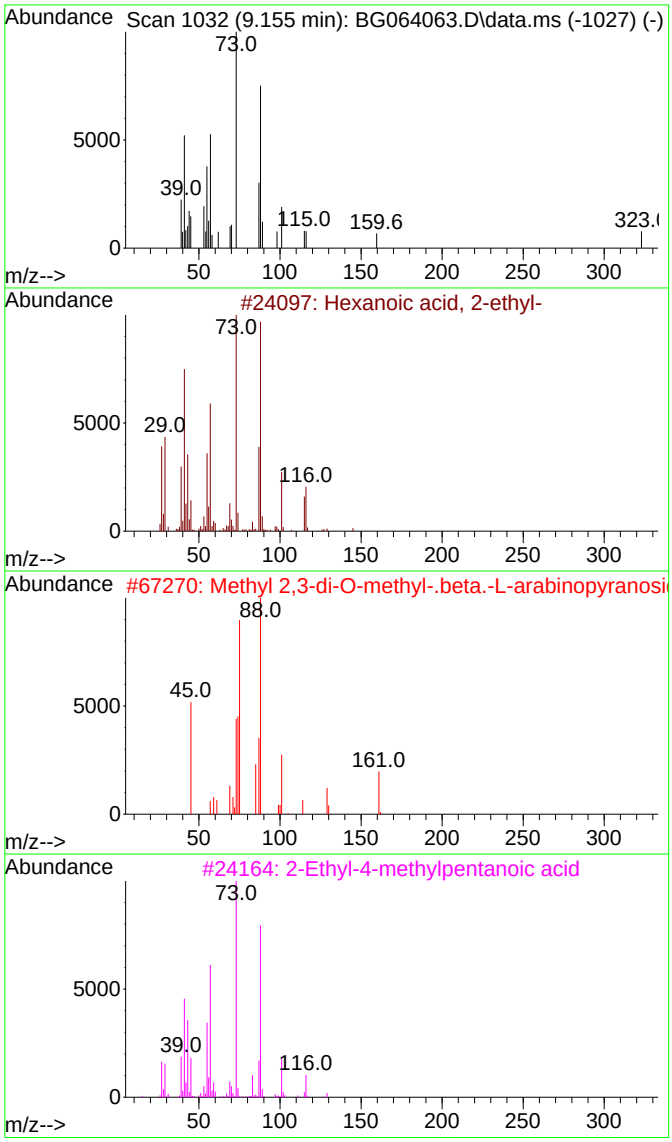
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

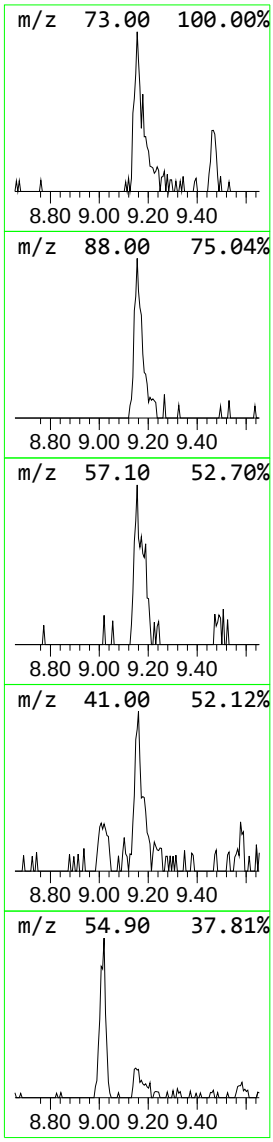
****

Peak Number 2 Hexanoic acid, 2-ethyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.155	2.80 ng	36125	1,4-Dichlorobenzene-d4	7.862

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanoic acid, 2-ethyl-	144	C8H16O2	000149-57-5	59
2	Methyl 2,3-di-O-methyl-.beta.-L-...	192	C8H16O5	053989-92-7	42
3	2-Ethyl-4-methylpentanoic acid	144	C8H16O2	000108-81-6	42
4	Heptanoic acid, ethyl ester	158	C9H18O2	000106-30-9	38
5	Pentanoic acid, ethyl ester	130	C7H14O2	000539-82-2	37





Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064063.D
Acq On : 7 Mar 2025 17:40
Operator : RC/JU
Sample : Q1514-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-105-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

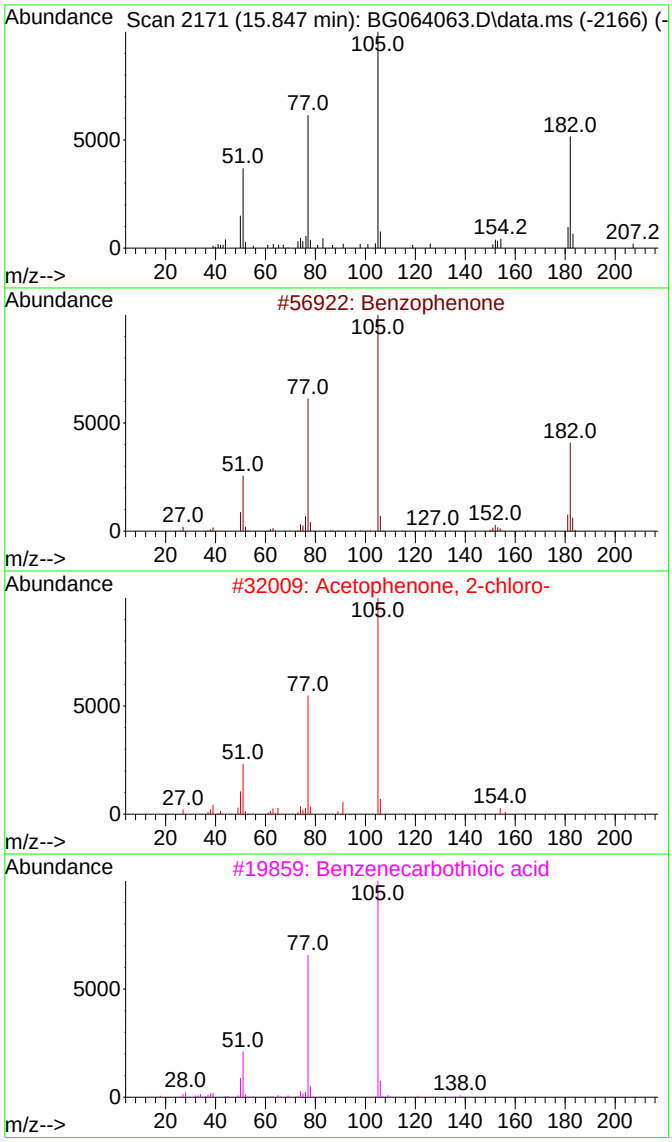
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

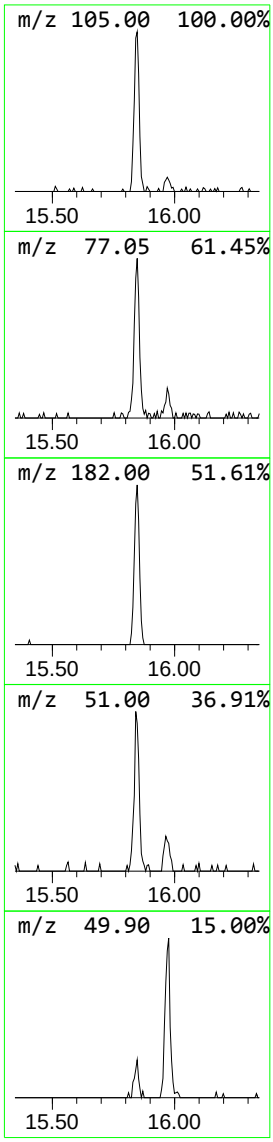
****

Peak Number 3 Benzophenone Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.847	2.06 ng	54630	Acenaphthene-d10	14.484

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	94
2	Acetophenone, 2-chloro-	154	C8H7ClO	000532-27-4	46
3	Benzenecarbothioic acid	138	C7H6OS	000098-91-9	43
4	Pentafluoroethyl phenyl ketone	224	C9H5F5O	000394-52-5	43
5	S-Benzoyl(thiohydroxylamine)	153	C7H7NOS	025740-80-1	43





Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064063.D
Acq On : 7 Mar 2025 17:40
Operator : RC/JU
Sample : Q1514-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-105-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

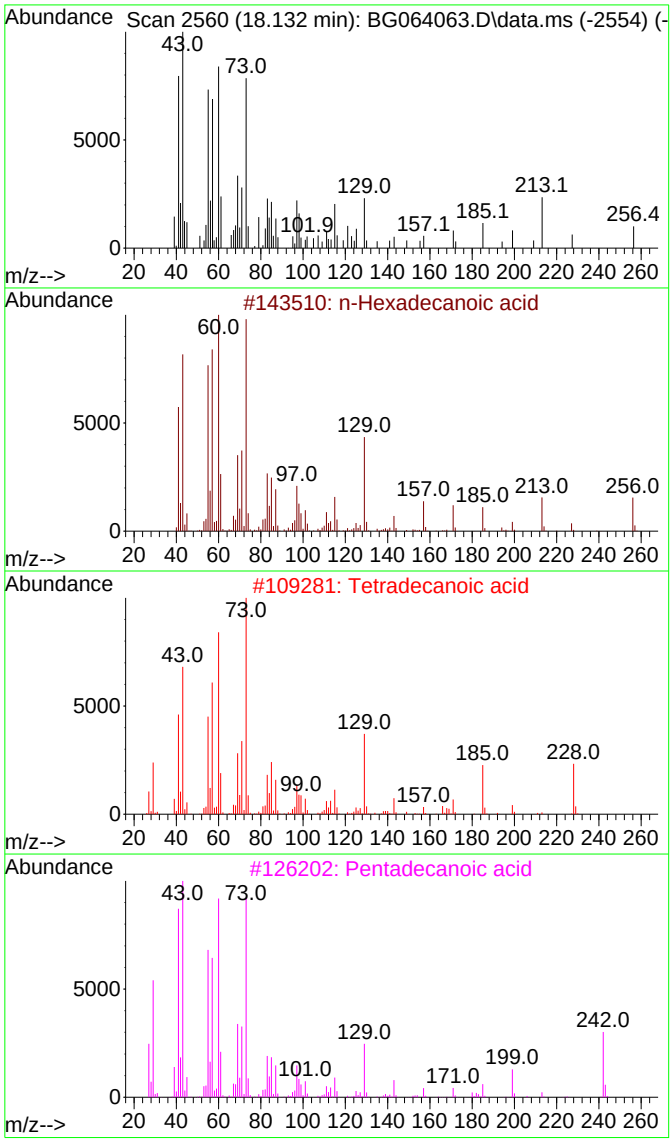
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

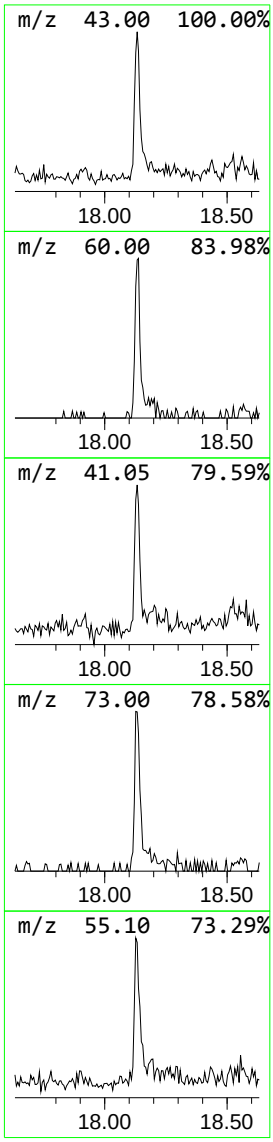
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.132	2.85 ng	95824	Phenanthrene-d10	17.227

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	89
2	Tetradecanoic acid	228	C14H28O2	000544-63-8	64
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	50
4	Undecanoic acid	186	C11H22O2	000112-37-8	50
5	n-Decanoic acid	172	C10H20O2	000334-48-5	43





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Data File : BG064063.D
Acq On : 7 Mar 2025 17:40
Operator : RC/JU
Sample : Q1514-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-105-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

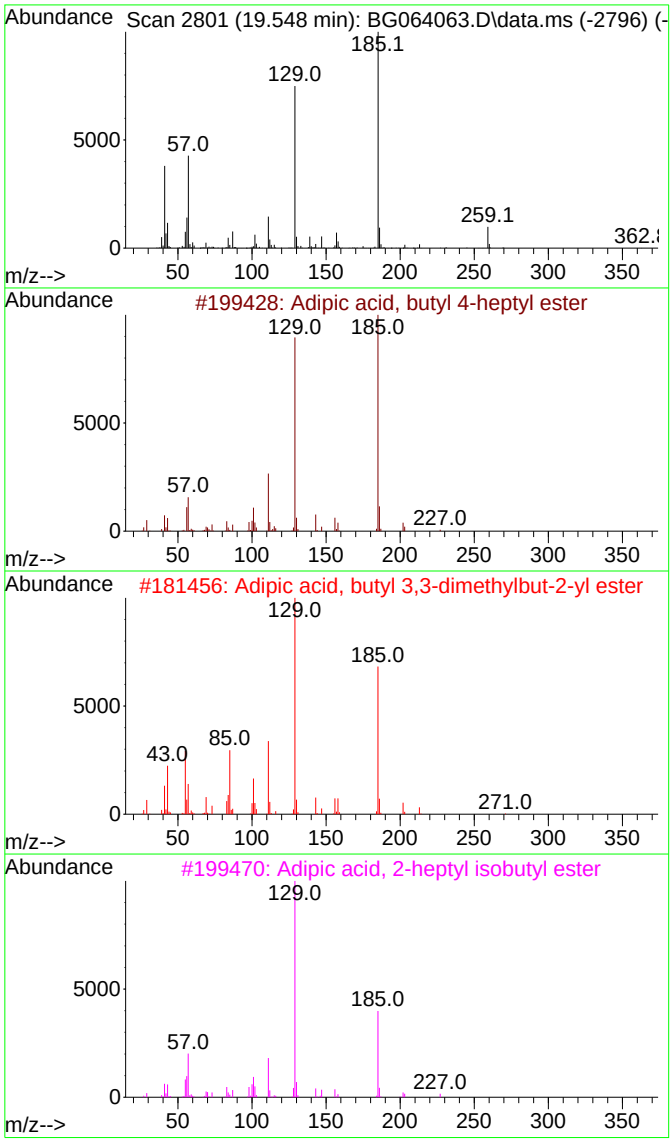
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

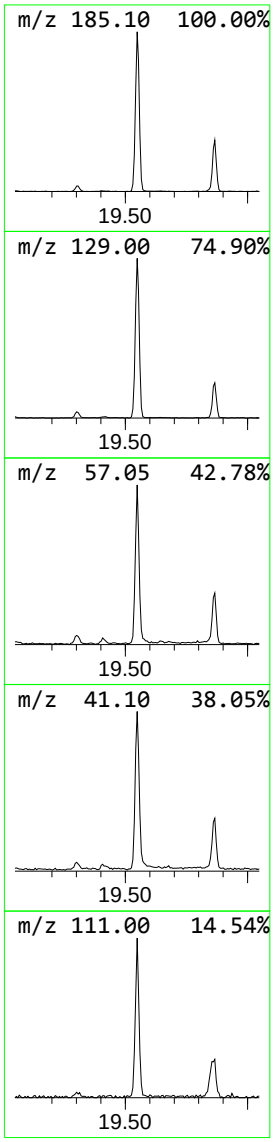
****

Peak Number 5 Adipic acid, butyl 4-heptyl... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
19.548	22.56 ng	836344	Chrysene-d12	21.458

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Adipic acid, butyl 4-heptyl ester	300	C17H32O4	1000349-73-7	72
2	Adipic acid, butyl 3,3-dimethylb...	286	C16H30O4	1000353-66-8	72
3	Adipic acid, 2-heptyl isobutyl e...	300	C17H32O4	1000353-64-3	72
4	Butyl citrate	360	C18H32O7	000077-94-1	72
5	Adipic acid, 2-hexyl isobutyl ester	286	C16H30O4	1000353-70-9	72





Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064063.D
Acq On : 7 Mar 2025 17:40
Operator : RC/JU
Sample : Q1514-07
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-105-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
1-Isobutoxy-2-e...	7.932	9.4	ng	120776	1	7.862	257909	20.0
Hexanoic acid, ...	9.155	2.8	ng	36125	1	7.862	257909	20.0
Benzophenone	15.847	2.1	ng	54630	3	14.484	530790	20.0
n-Hexadecanoic ...	18.132	2.9	ng	95824	4	17.227	671593	20.0
Adipic acid, bu...	19.548	22.6	ng	836344	5	21.458	741526	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064068.D
Acq On : 7 Mar 2025 21:03
Operator : RC/JU
Sample : Q1514-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-103-GW01

Quant Time: Mar 07 22:58:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

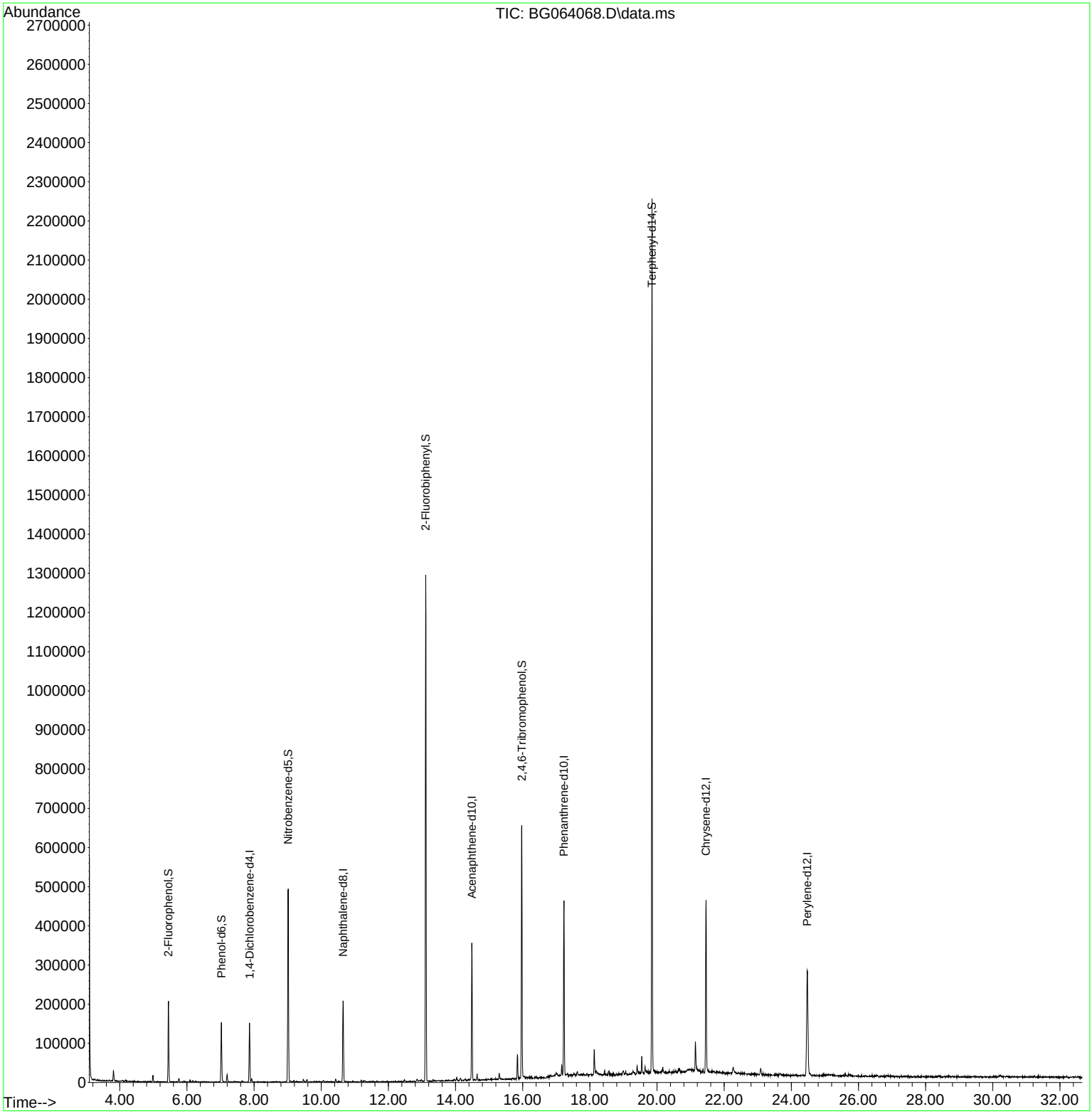
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.864	152	34746	20.000	ng	0.00
21) Naphthalene-d8	10.649	136	161327	20.000	ng	0.00
39) Acenaphthene-d10	14.486	164	115460	20.000	ng	0.00
64) Phenanthrene-d10	17.230	188	254589	20.000	ng	0.00
76) Chrysene-d12	21.460	240	250403	20.000	ng	0.00
86) Perylene-d12	24.474	264	270468	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.450	112	75993	34.150	ng	0.00
7) Phenol-d6	7.024	99	72325	23.892	ng	0.00
23) Nitrobenzene-d5	9.016	82	262742	90.001	ng	0.00
42) 2,4,6-Tribromophenol	15.973	330	108106	84.233	ng	0.00
45) 2-Fluorobiphenyl	13.111	172	610439	80.251	ng	0.00
79) Terphenyl-d14	19.850	244	1005608	81.203	ng	0.00
Target Compounds						Qvalue

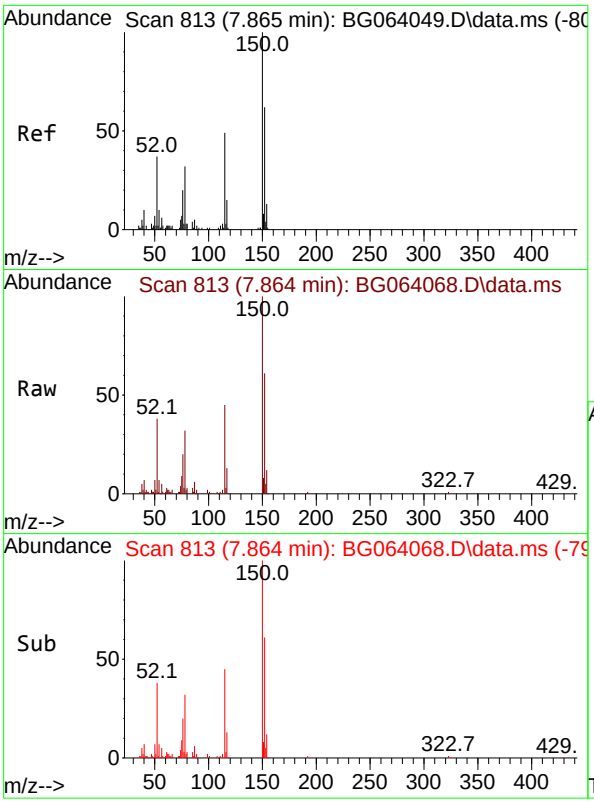
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064068.D
Acq On : 7 Mar 2025 21:03
Operator : RC/JU
Sample : Q1514-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-103-GW01

Quant Time: Mar 07 22:58:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



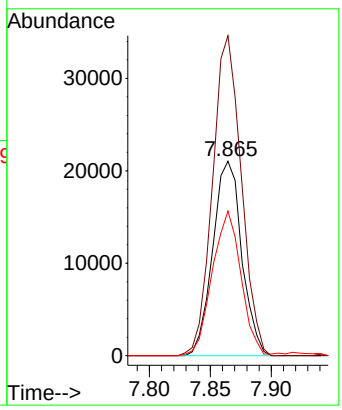


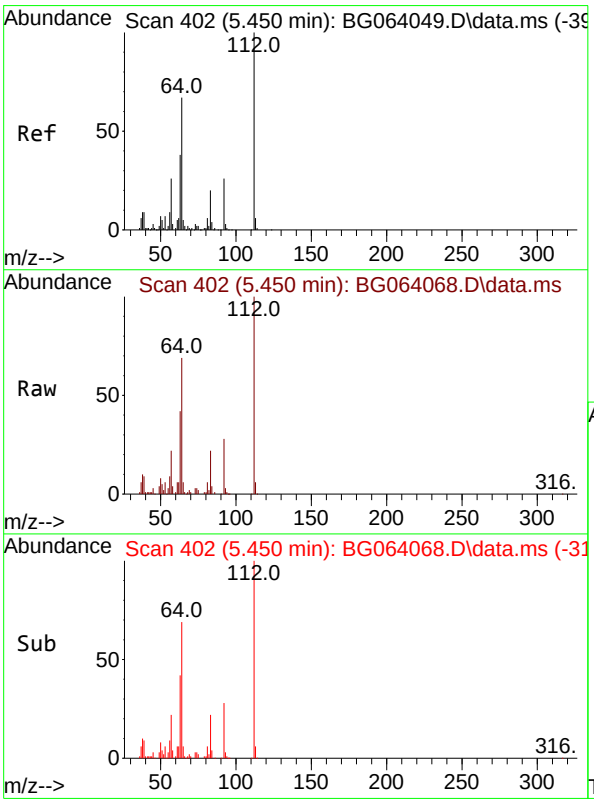
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.864 min Scan# 81
Delta R.T. -0.001 min
Lab File: BG064068.D
Acq: 7 Mar 2025 21:03

Instrument :
BNA_G
ClientSampleId :
ENV-103-GW01

Tgt Ion:152 Resp: 34746

Ion	Ratio	Lower	Upper
152	100		
150	164.6	129.2	193.8
115	74.4	63.0	94.6

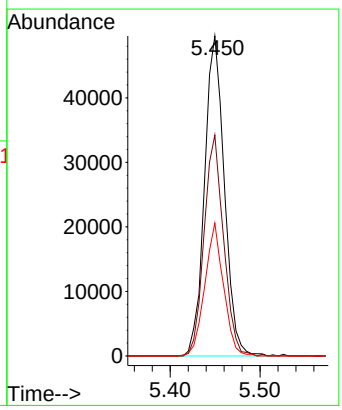


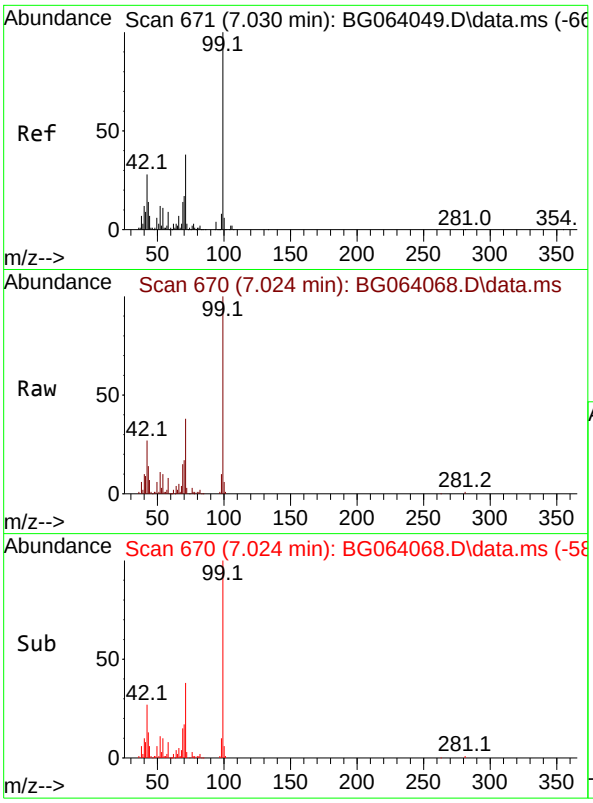


#5
2-Fluorophenol
Concen: 34.150 ng
RT: 5.450 min Scan# 402
Delta R.T. -0.000 min
Lab File: BG064068.D
Acq: 7 Mar 2025 21:03

Tgt Ion:112 Resp: 75993

Ion	Ratio	Lower	Upper
112	100		
64	69.1	53.7	80.5
63	41.6	30.2	45.4



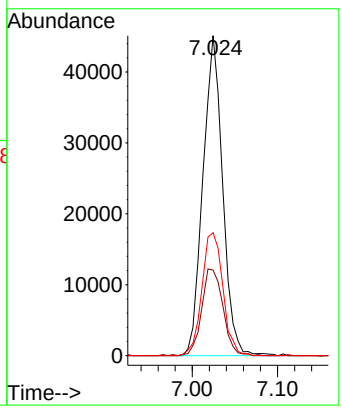


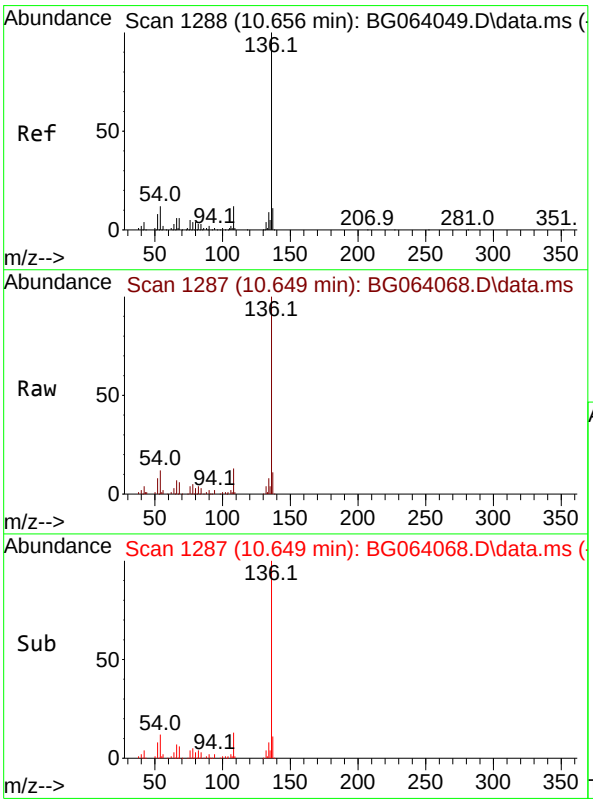
#7
Phenol-d6
Concen: 23.892 ng
RT: 7.024 min Scan# 6
Delta R.T. -0.006 min
Lab File: BG064068.D
Acq: 7 Mar 2025 21:03

Instrument :
BNA_G
ClientSampleId :
ENV-103-GW01

Tgt Ion: 99 Resp: 72325

Ion	Ratio	Lower	Upper
99	100		
42	26.8	22.7	34.1
71	38.4	30.6	46.0

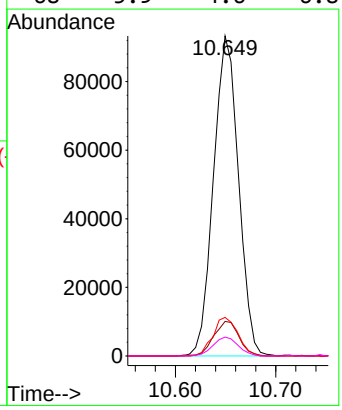


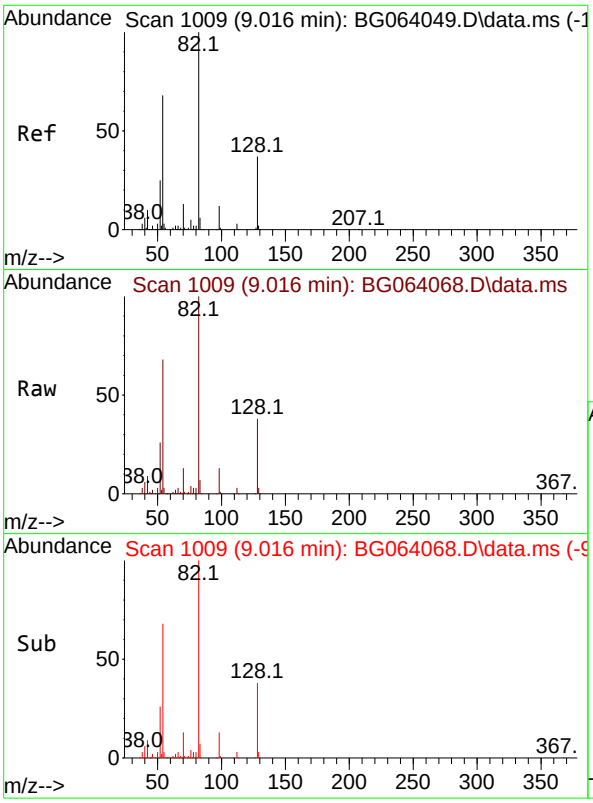


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.649 min Scan# 1287
Delta R.T. -0.007 min
Lab File: BG064068.D
Acq: 7 Mar 2025 21:03

Tgt Ion:136 Resp: 161327

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.5	12.7
54	12.1	9.9	14.9
68	5.9	4.6	6.8



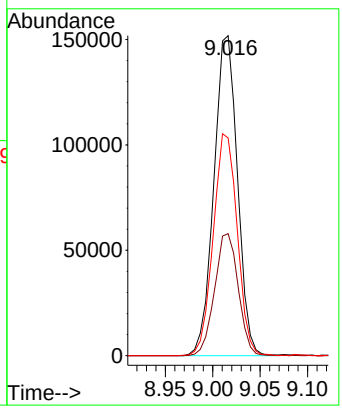


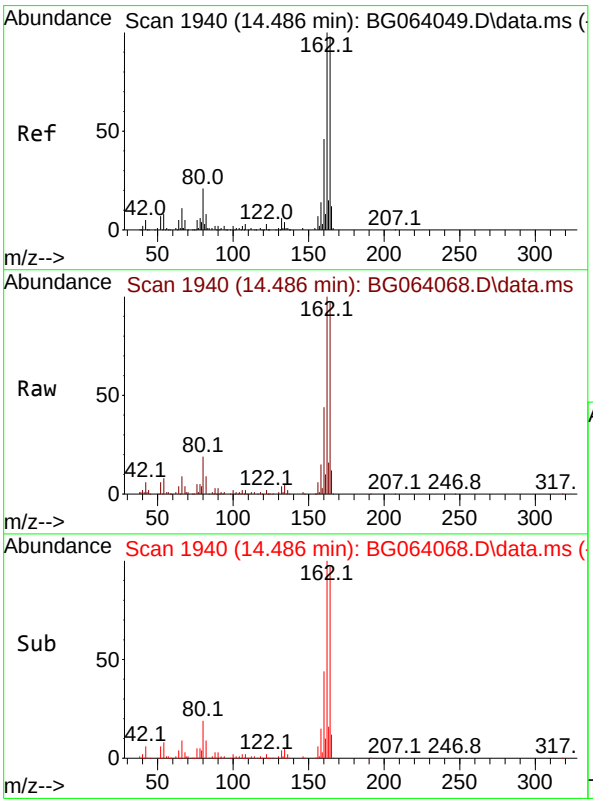
#23
Nitrobenzene-d5
Concen: 90.001 ng
RT: 9.016 min Scan# 1
Delta R.T. -0.000 min
Lab File: BG064068.D
Acq: 7 Mar 2025 21:03

Instrument :
BNA_G
ClientSampleId :
ENV-103-GW01

Tgt Ion: 82 Resp: 262742

Ion	Ratio	Lower	Upper
82	100		
128	38.1	30.0	45.0
54	68.0	54.7	82.1

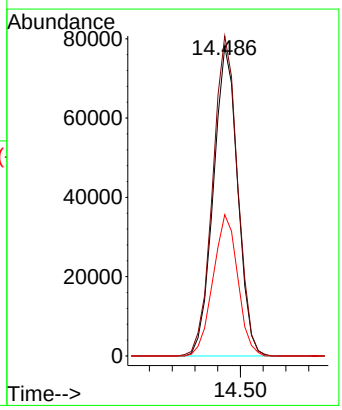


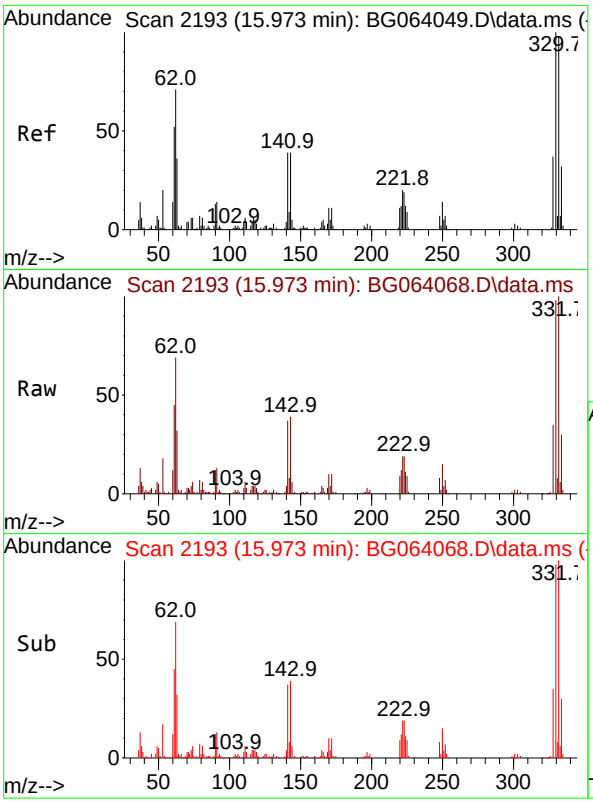


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.486 min Scan# 1940
Delta R.T. 0.000 min
Lab File: BG064068.D
Acq: 7 Mar 2025 21:03

Tgt Ion:164 Resp: 115460

Ion	Ratio	Lower	Upper
164	100		
162	103.4	81.4	122.0
160	45.6	37.0	55.6



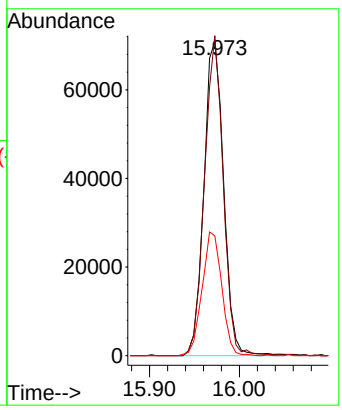


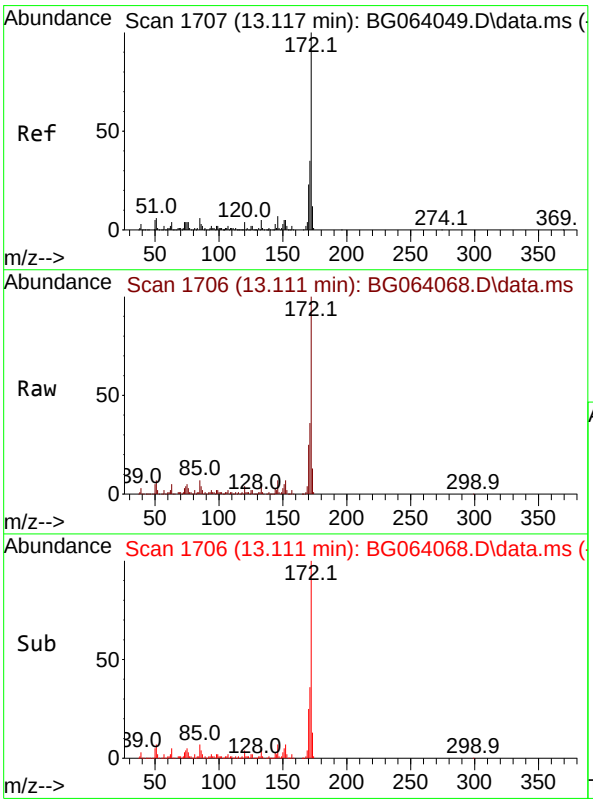
#42
2,4,6-Tribromophenol
Concen: 84.233 ng
RT: 15.973 min Scan# 21
Delta R.T. -0.000 min
Lab File: BG064068.D
Acq: 7 Mar 2025 21:03

Instrument :
BNA_G
ClientSampleId :
ENV-103-GW01

Tgt Ion:330 Resp: 108106

Ion	Ratio	Lower	Upper
330	100		
332	96.3	76.7	115.1
141	39.3	29.7	44.5

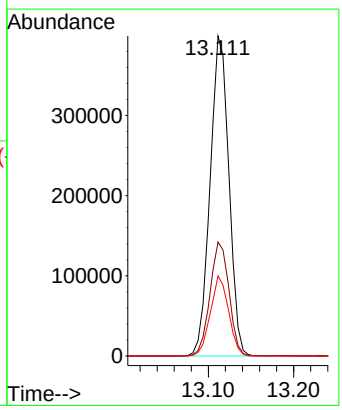


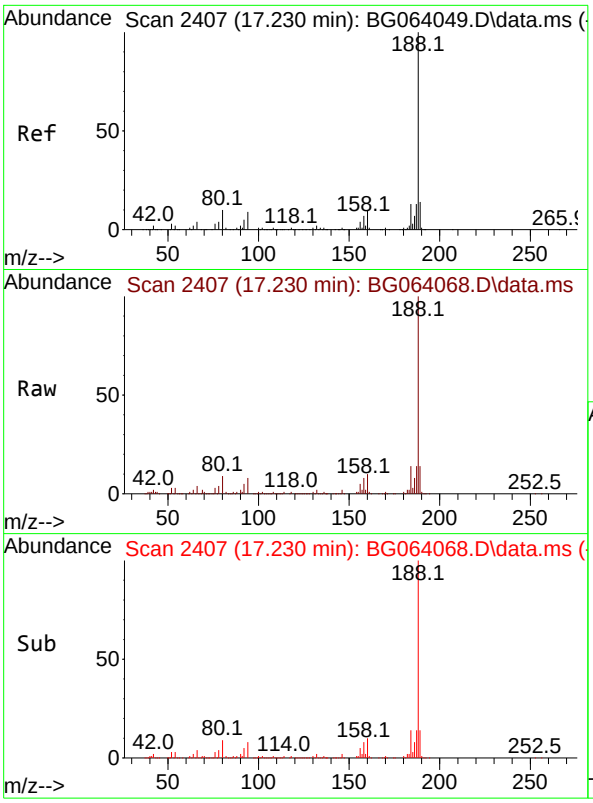


#45
2-Fluorobiphenyl
Concen: 80.251 ng
RT: 13.111 min Scan# 1706
Delta R.T. -0.006 min
Lab File: BG064068.D
Acq: 7 Mar 2025 21:03

Tgt Ion:172 Resp: 610439

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.0	42.0
170	25.1	18.7	28.1



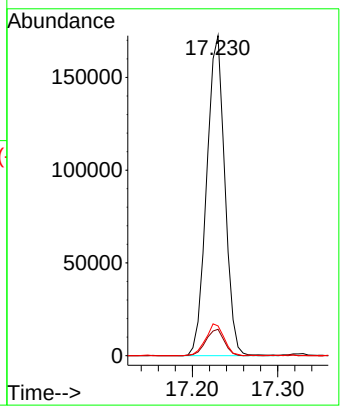


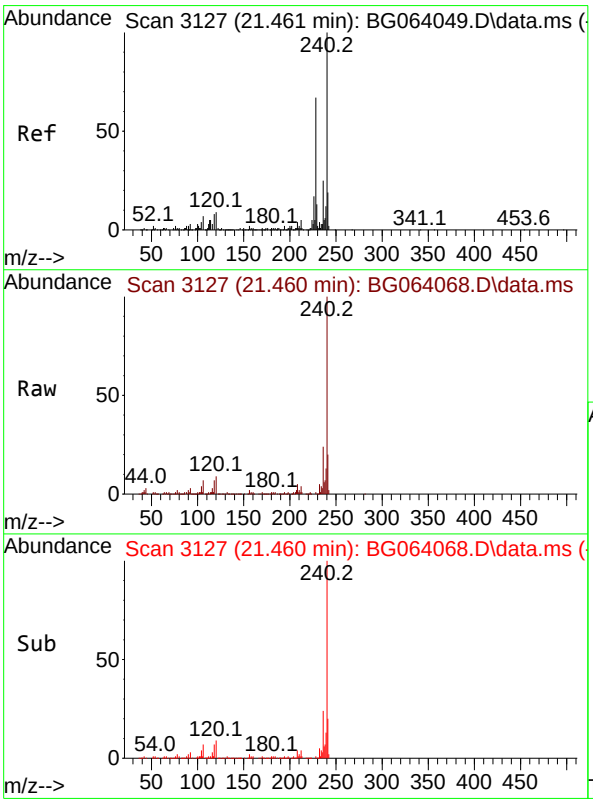
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.230 min Scan# 24
Delta R.T. 0.000 min
Lab File: BG064068.D
Acq: 7 Mar 2025 21:03

Instrument :
BNA_G
ClientSampleId :
ENV-103-GW01

Tgt Ion:188 Resp: 254589

Ion	Ratio	Lower	Upper
188	100		
94	8.2	6.9	10.3
80	9.3	8.1	12.1

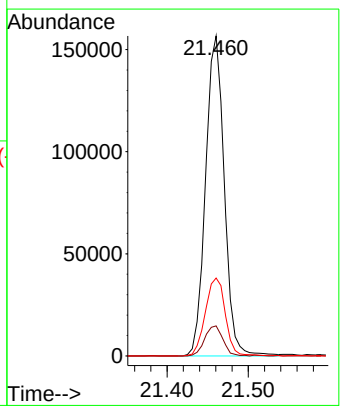


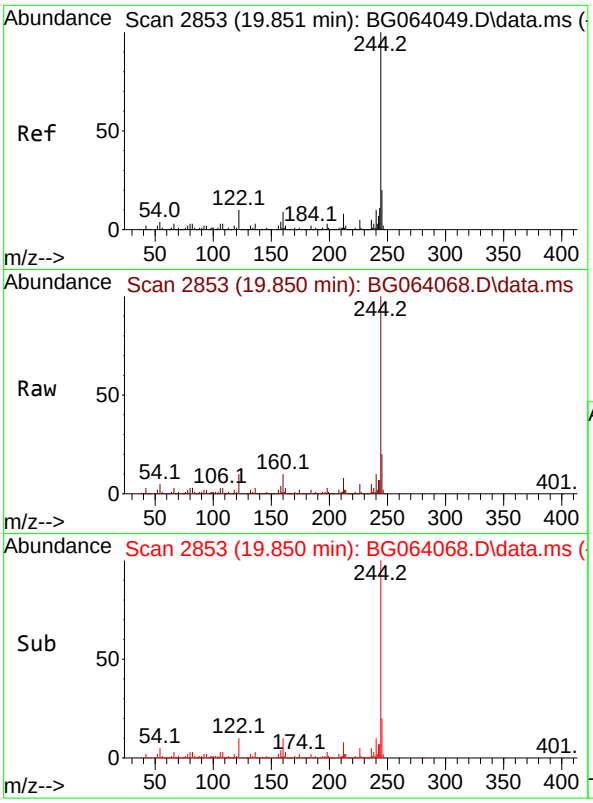


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.460 min Scan# 3127
Delta R.T. -0.000 min
Lab File: BG064068.D
Acq: 7 Mar 2025 21:03

Tgt Ion:240 Resp: 250403

Ion	Ratio	Lower	Upper
240	100		
120	9.4	7.2	10.8
236	24.4	20.2	30.2



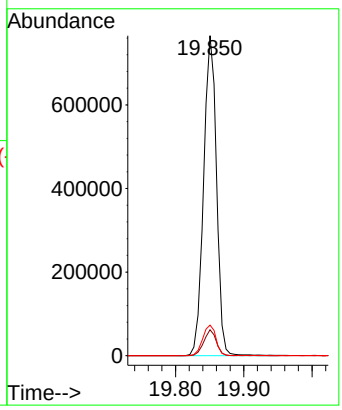


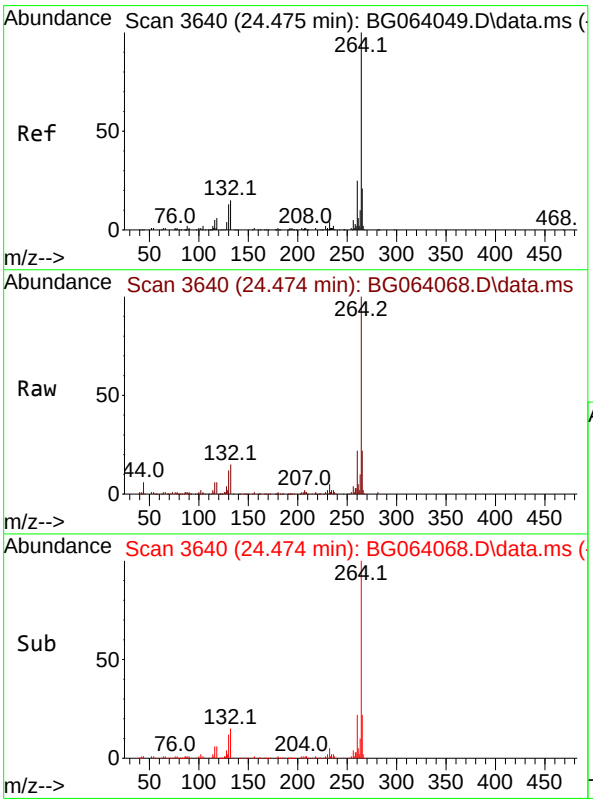
#79
Terphenyl-d14
Concen: 81.203 ng
RT: 19.850 min Scan# 2
Delta R.T. -0.000 min
Lab File: BG064068.D
Acq: 7 Mar 2025 21:03

Instrument :
BNA_G
ClientSampleId :
ENV-103-GW01

Tgt Ion:244 Resp: 1005608

Ion	Ratio	Lower	Upper
244	100		
212	8.1	6.2	9.4
122	9.5	8.0	12.0

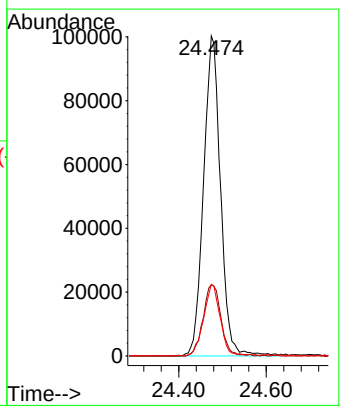




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.474 min Scan# 3640
Delta R.T. -0.000 min
Lab File: BG064068.D
Acq: 7 Mar 2025 21:03

Tgt Ion:264 Resp: 270468

Ion	Ratio	Lower	Upper
264	100		
260	22.3	19.6	29.4
265	22.4	16.6	25.0



Sample Results: **BG064068.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064068.D
Acq On : 7 Mar 2025 21:03
Operator : RC/JU
Sample : Q1514-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-103-GW01

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BG064068.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.810	119	123	132	rVB	27951	44354	1.53%	0.398%
2	5.450	395	402	412	rBV	206628	314243	10.83%	2.819%
3	7.024	663	670	678	rBV	152635	259398	8.94%	2.327%
4	7.195	694	699	705	rBV3	18769	31892	1.10%	0.286%
5	7.865	806	813	820	rBV	150943	248759	8.57%	2.232%
6	9.016	1001	1009	1017	rVB	492995	867285	29.89%	7.781%
7	10.649	1280	1287	1295	rBV	207101	365108	12.58%	3.276%
8	13.111	1699	1706	1713	rBV	1292646	1962379	67.64%	17.605%
9	14.486	1932	1940	1947	rVB	351159	543947	18.75%	4.880%
10	15.843	2165	2171	2178	rBV	64314	96520	3.33%	0.866%
11	15.973	2187	2193	2201	rBV	646203	992183	34.20%	8.901%
12	17.160	2391	2395	2400	rVB	25890	32714	1.13%	0.293%
13	17.230	2400	2407	2413	rBV	445718	666852	22.99%	5.983%
14	18.129	2556	2560	2568	rBV2	63074	101541	3.50%	0.911%
15	19.410	2775	2778	2782	rBV3	20868	29450	1.02%	0.264%
16	19.545	2797	2801	2808	rBV2	43340	56900	1.96%	0.510%
17	19.645	2813	2818	2824	rBV7	19167	36524	1.26%	0.328%
18	19.850	2847	2853	2862	rBV	2230071	2901168	100.00%	26.028%
19	21.143	3069	3073	3079	rBV2	72938	109517	3.77%	0.983%
20	21.460	3120	3127	3138	rBV2	440309	724993	24.99%	6.504%
21	23.088	3400	3404	3410	rVB5	16651	30857	1.06%	0.277%
22	24.474	3630	3640	3651	rBV2	268037	729948	25.16%	6.549%

Sum of corrected areas: 11146532

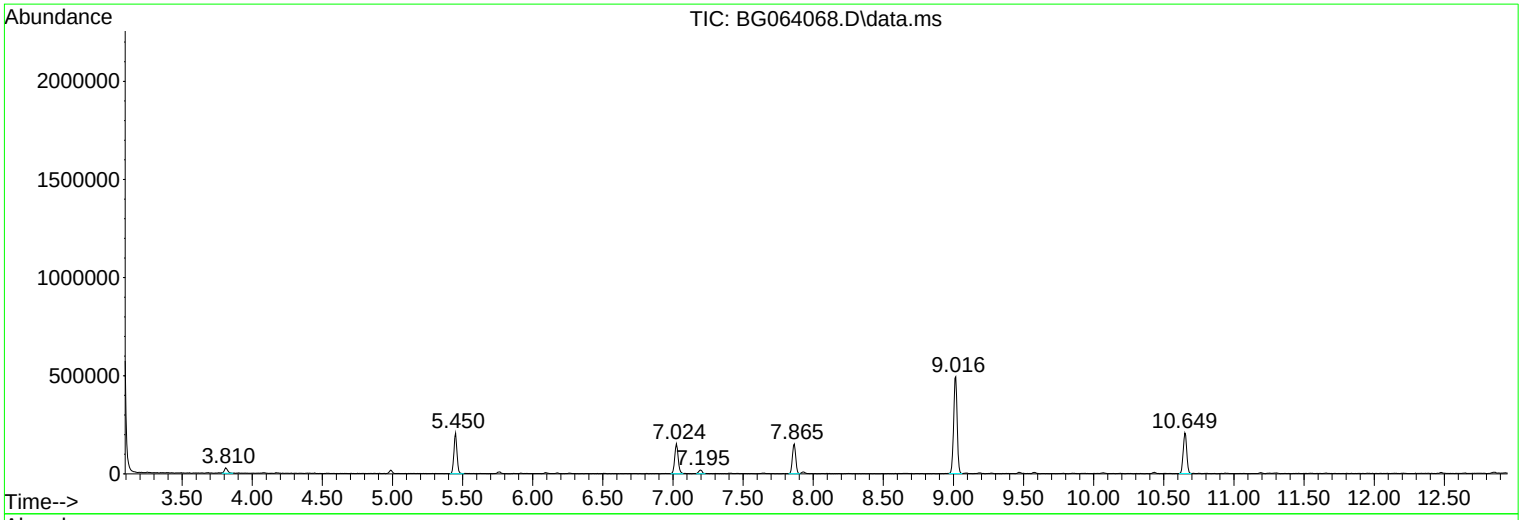
Sample Results: **BG064068.D**

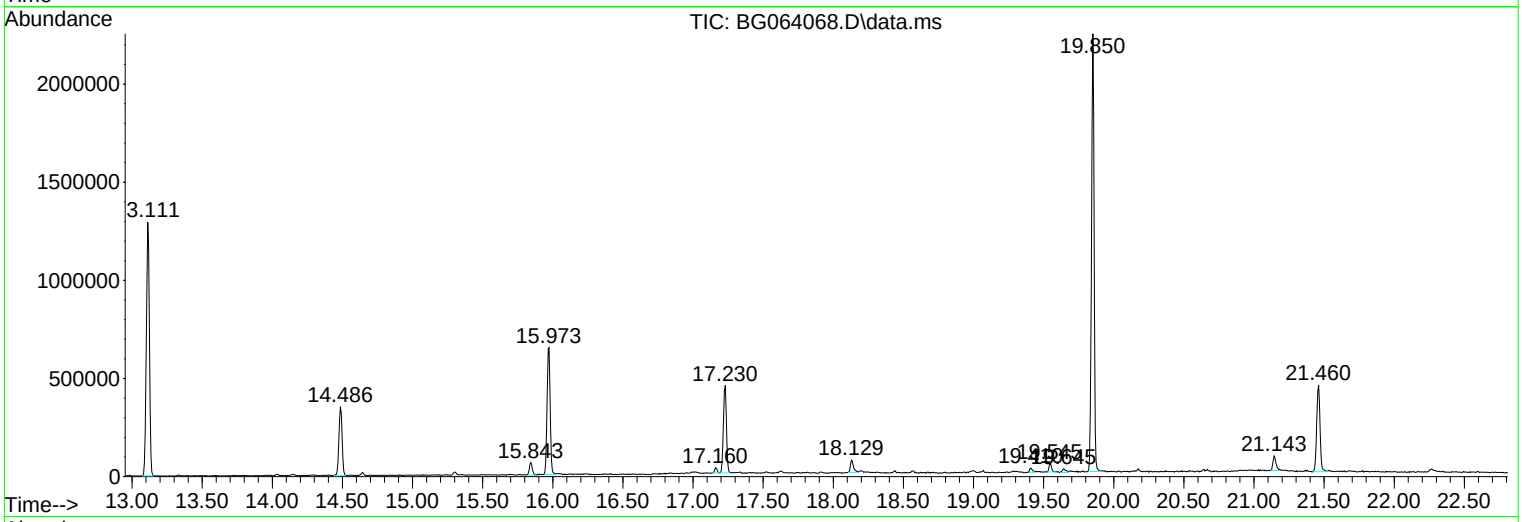
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064068.D
Acq On : 7 Mar 2025 21:03
Operator : RC/JU
Sample : Q1514-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

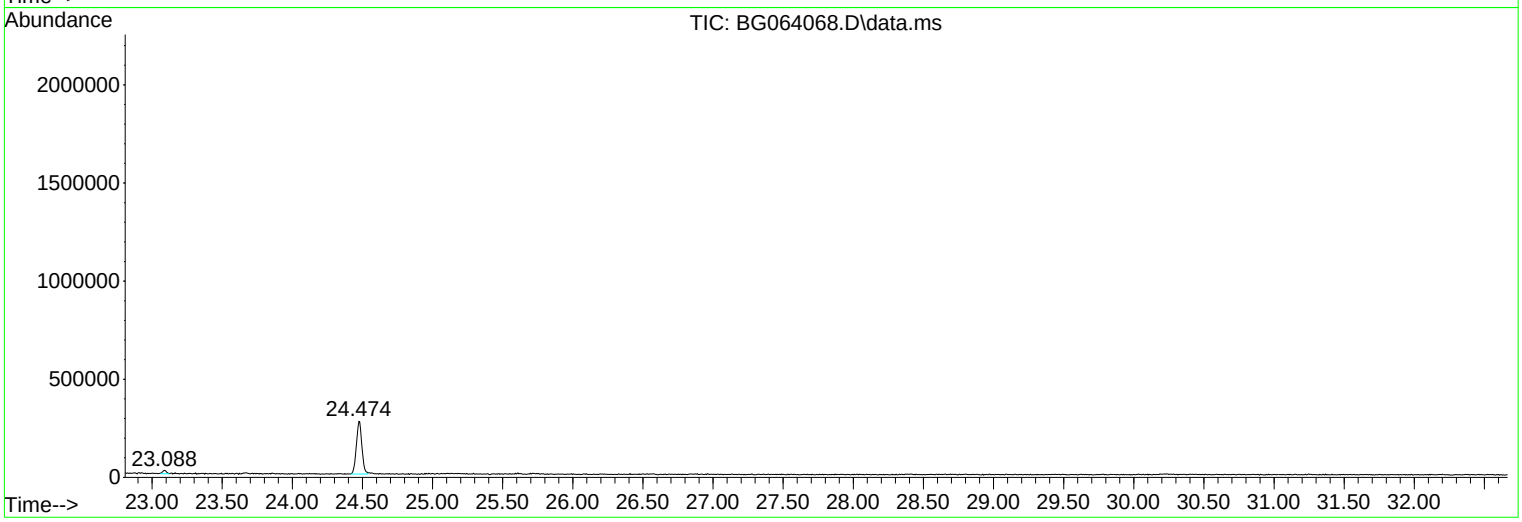
Instrument :
BNA_G
ClientSampleId :
ENV-103-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064068.D
Acq On : 7 Mar 2025 21:03
Operator : RC/JU
Sample : Q1514-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-103-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

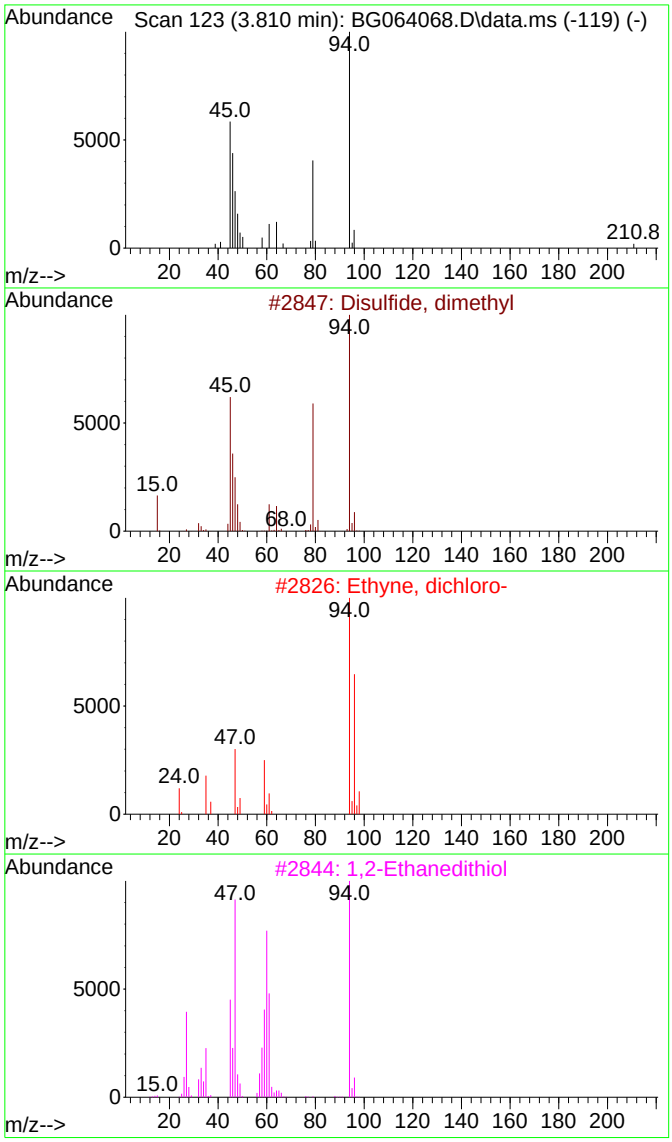
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

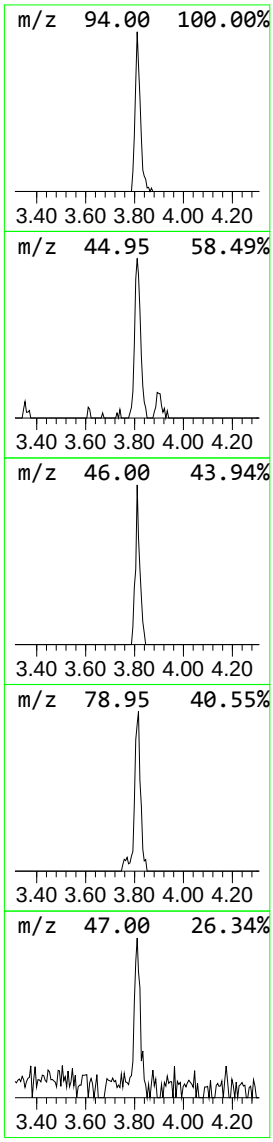
****

Peak Number 1 Disulfide, dimethyl Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.810	3.57 ng	44354	1,4-Dichlorobenzene-d4	7.864

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Disulfide, dimethyl	94	C2H6S2	000624-92-0	87
2	Ethyne, dichloro-	94	C2Cl2	007572-29-4	35
3	1,2-Ethanedithiol	94	C2H6S2	000540-63-6	28
4	1,3,5,7-Tetrathiocane	184	C4H8S4	002373-00-4	12
5	Methyl 2-hydroxyethyl sulfoxide	108	C3H8O2S	021281-74-3	10





Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064068.D
Acq On : 7 Mar 2025 21:03
Operator : RC/JU
Sample : Q1514-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-103-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

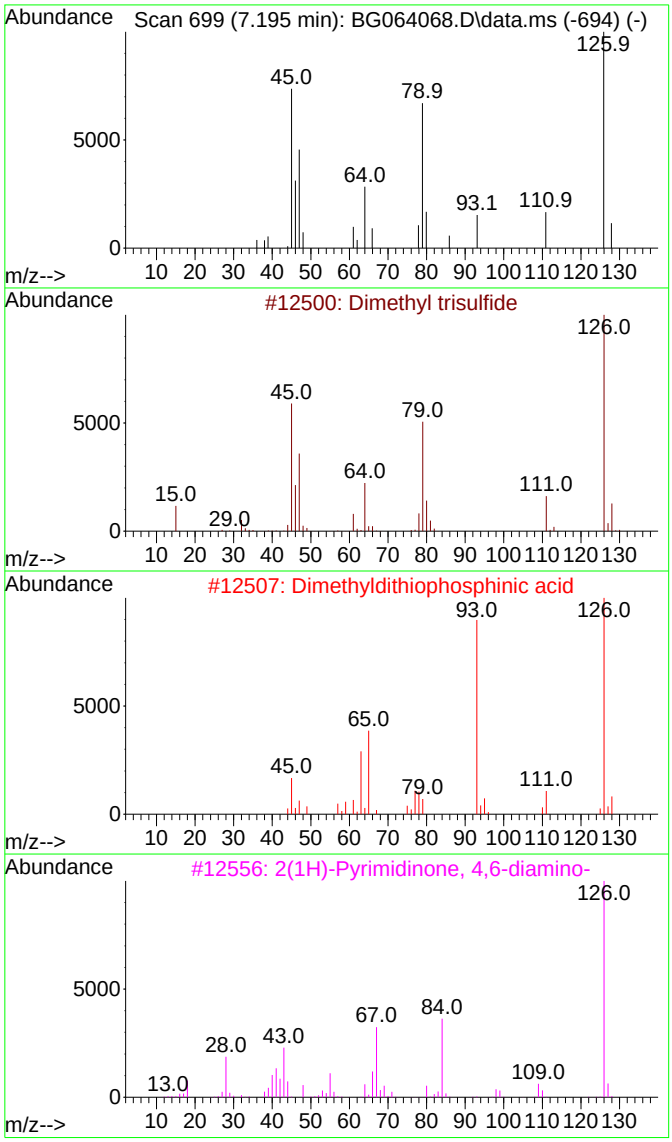
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

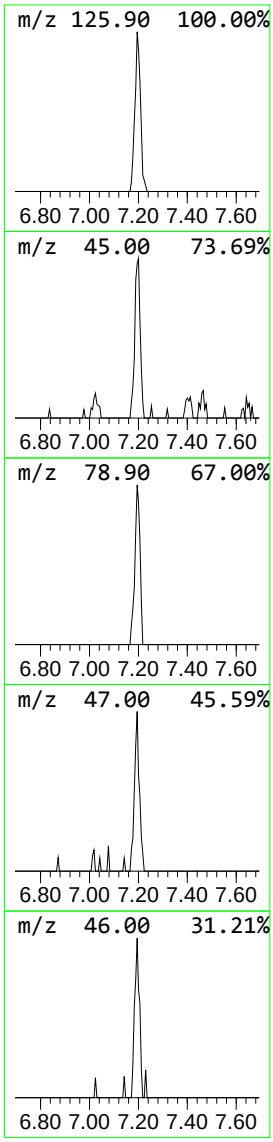
****

Peak Number 2 Dimethyl trisulfide Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.195	2.56 ng	31892	1,4-Dichlorobenzene-d4	7.864

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dimethyl trisulfide	126	C2H6S3	003658-80-8	94
2	Dimethyldithiophosphinic acid	126	C2H7PS2	016367-68-3	9
3	2(1H)-Pyrimidinone, 4,6-diamino-	126	C4H6N4O	031458-45-4	9
4	Butane, 4-chloro-1,1,1-trifluoro-	146	C4H6ClF3	000406-85-9	9
5	3-Nonyne, 9-methoxy-	154	C10H18O	054699-39-7	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064068.D
Acq On : 7 Mar 2025 21:03
Operator : RC/JU
Sample : Q1514-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-103-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

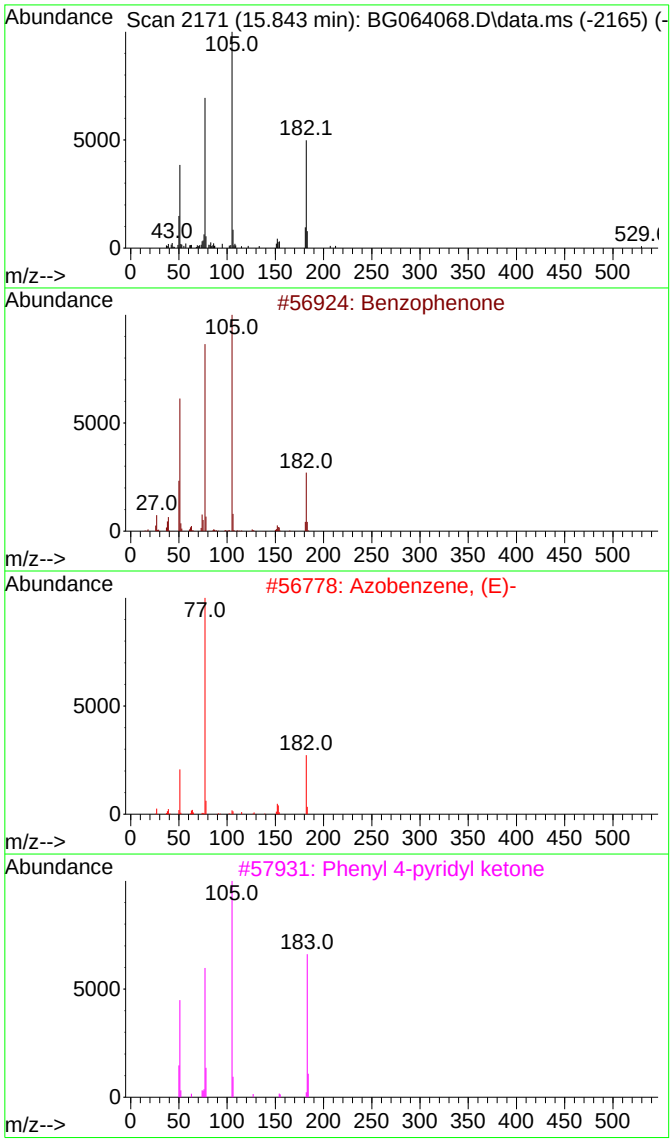
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

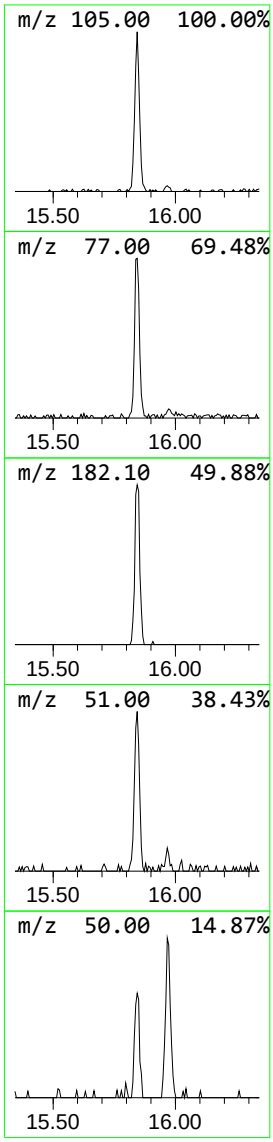
****

Peak Number 3 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.843	3.55 ng	96520	Acenaphthene-d10	14.486

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	95
2	Azobenzene, (E)-	182	C12H10N2	017082-12-1	50
3	Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	50
4	Benzamide, N-(2-chloroacetyl)-	197	C9H8ClNO2	1000303-20-8	47
5	Benzoic acid, 2-propenyl ester	162	C10H10O2	000583-04-0	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064068.D
Acq On : 7 Mar 2025 21:03
Operator : RC/JU
Sample : Q1514-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-103-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

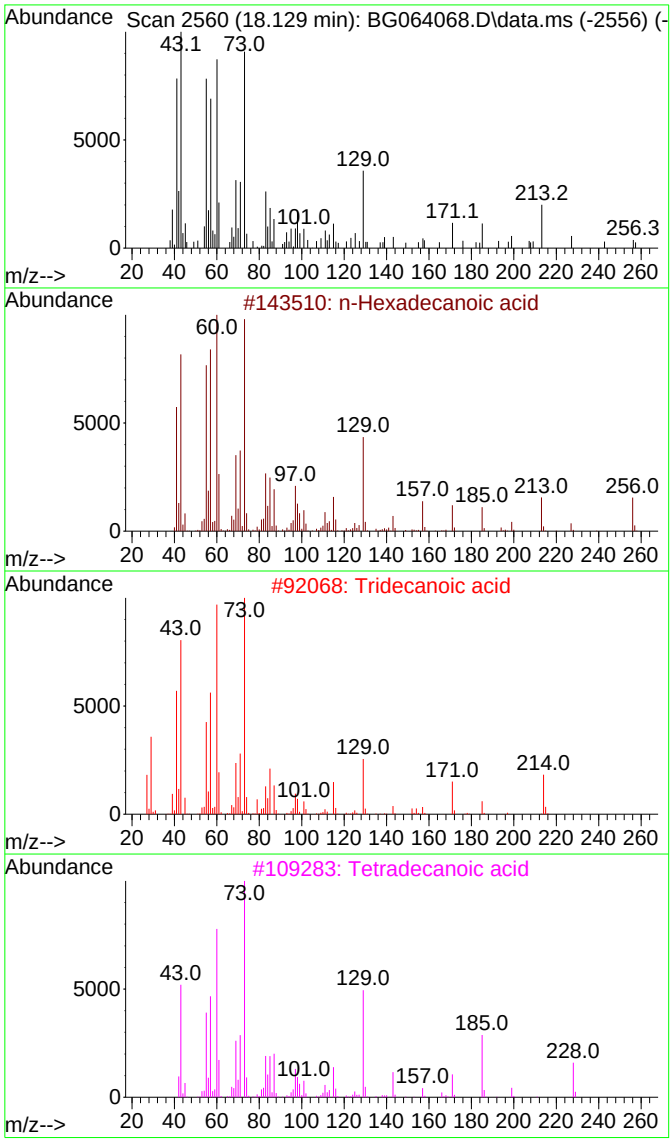
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

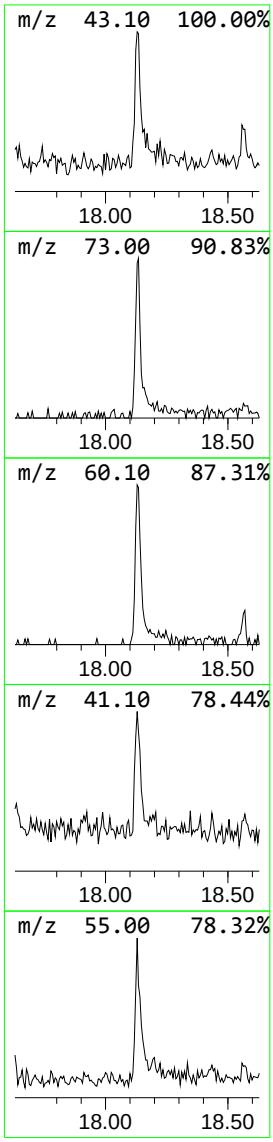
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.129	3.05 ng	101541	Phenanthrene-d10	17.230

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	87
2	Tridecanoic acid	214	C13H26O2	000638-53-9	72
3	Tetradecanoic acid	228	C14H28O2	000544-63-8	59
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	59
5	n-Decanoic acid	172	C10H20O2	000334-48-5	53





Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064068.D
Acq On : 7 Mar 2025 21:03
Operator : RC/JU
Sample : Q1514-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-103-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

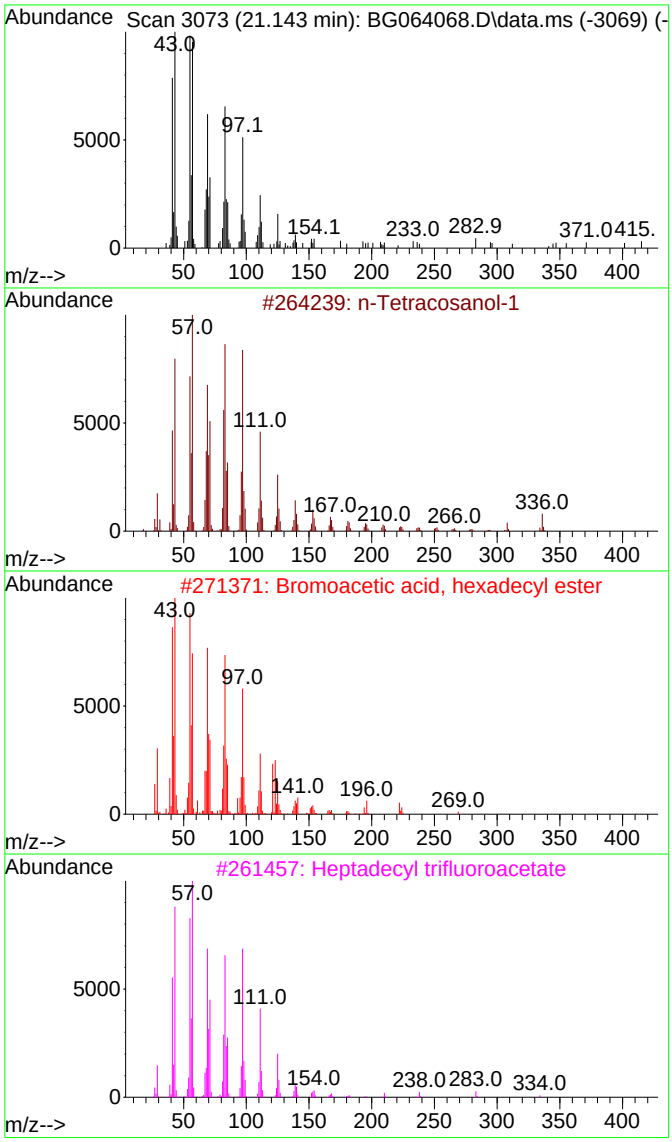
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

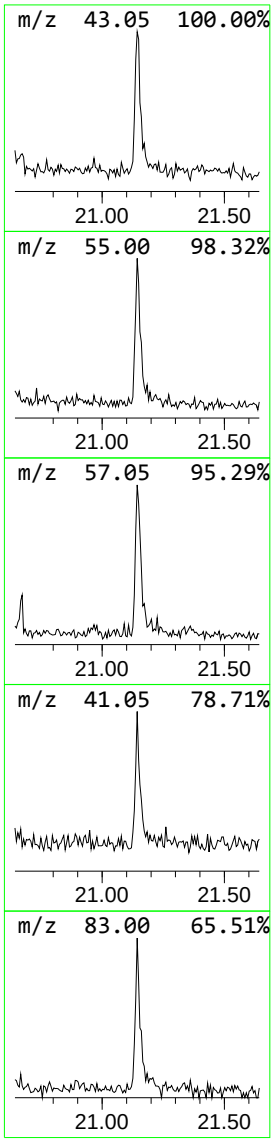
****

Peak Number 5 n-Tetracosanol-1 Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
21.143	3.02 ng	109517	Chrysene-d12	21.460

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Tetracosanol-1	354	C24H50O	000506-51-4	91
2	Bromoacetic acid, hexadecyl ester	362	C18H35BrO2	005454-48-8	91
3	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	91
4	1-Tricosene	322	C23H46	018835-32-0	90
5	Pentafluoropropionic acid, hepta...	402	C20H35F5O2	959218-78-1	90





Sample Results: **BG064068.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064068.D
Acq On : 7 Mar 2025 21:03
Operator : RC/JU
Sample : Q1514-08
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
ENV-103-GW01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Disulfide, dime...	3.810	3.6	ng	44354	1	7.864	248759	20.0
Dimethyl trisul...	7.195	2.6	ng	31892	1	7.864	248759	20.0
Benzophenone	15.843	3.5	ng	96520	3	14.486	543947	20.0
n-Hexadecanoic ...	18.129	3.0	ng	101541	4	17.230	666852	20.0
n-Tetracosanol-1	21.143	3.0	ng	109517	5	21.460	724993	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064064.D
Acq On : 7 Mar 2025 18:21
Operator : RC/JU
Sample : Q1514-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
FB03062025

Quant Time: Mar 07 22:56:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

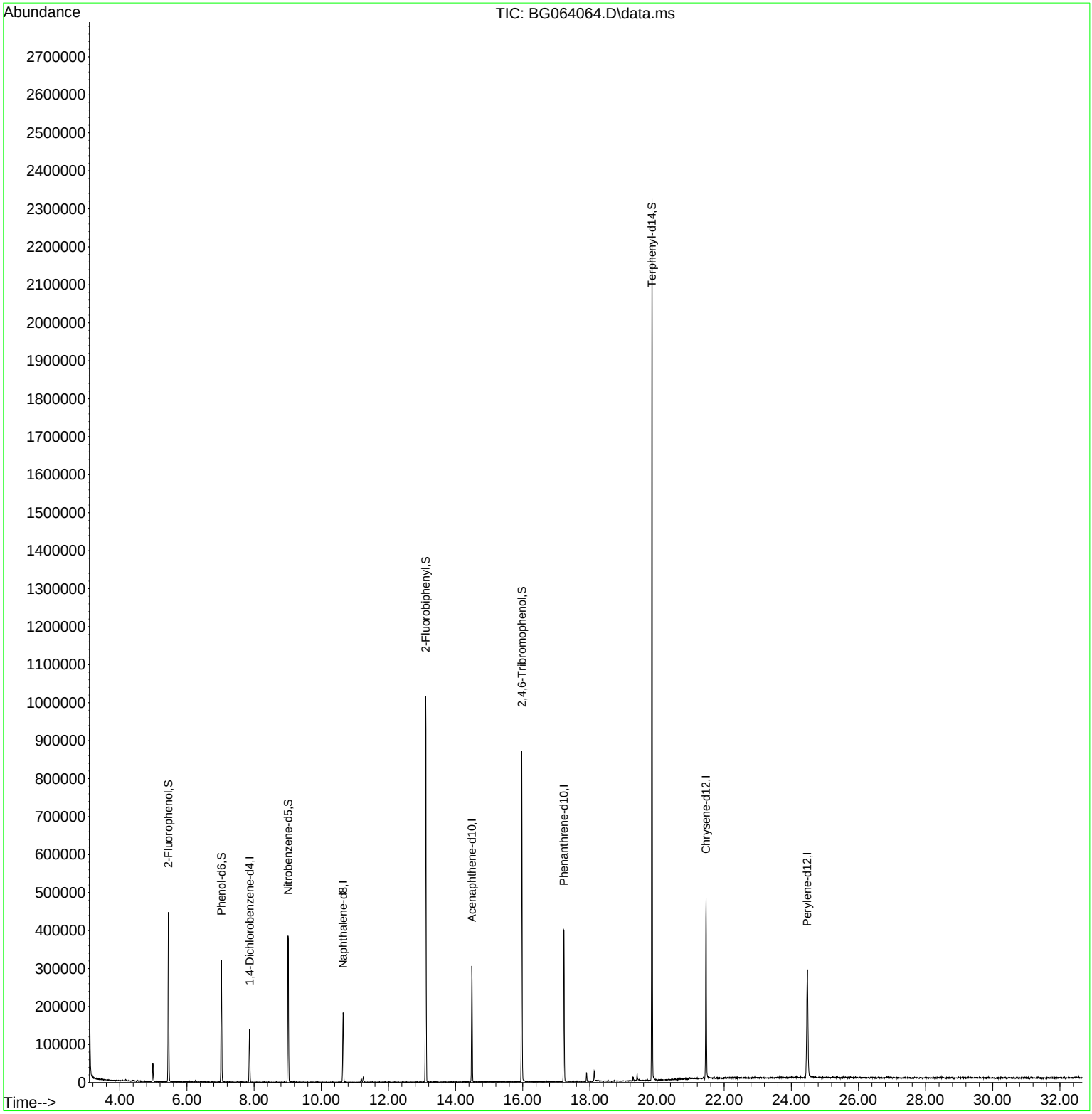
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.864	152	32854	20.000	ng	0.00
21) Naphthalene-d8	10.649	136	141929	20.000	ng	# 0.00
39) Acenaphthene-d10	14.486	164	100513	20.000	ng	0.00
64) Phenanthrene-d10	17.224	188	241431	20.000	ng	0.00
76) Chrysene-d12	21.460	240	267874	20.000	ng	0.00
86) Perylene-d12	24.474	264	281608	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.450	112	161925	76.958	ng	0.00
7) Phenol-d6	7.024	99	154295	53.905	ng	0.00
23) Nitrobenzene-d5	9.016	82	203577	79.265	ng	0.00
42) 2,4,6-Tribromophenol	15.973	330	140808	126.028	ng	0.00
45) 2-Fluorobiphenyl	13.111	172	477492	72.108	ng	0.00
79) Terphenyl-d14	19.850	244	1053306	79.507	ng	0.00
Target Compounds						Qvalue

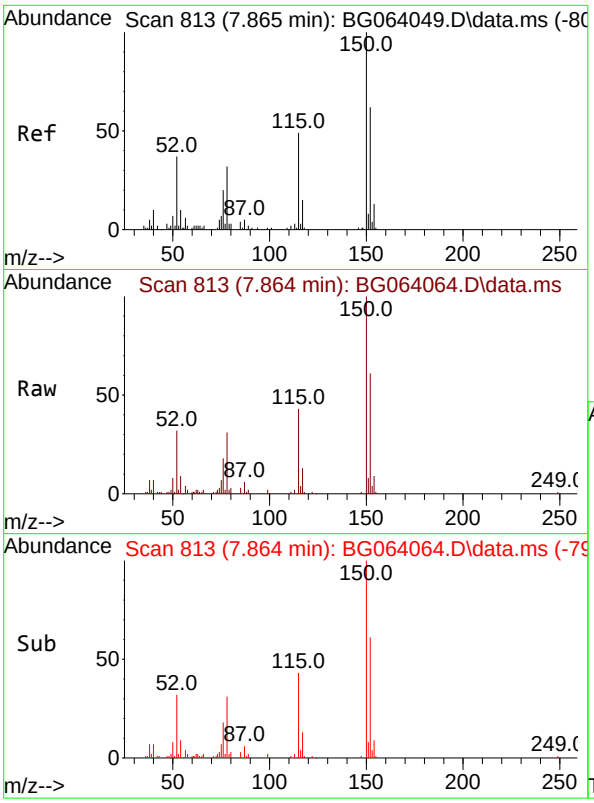
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064064.D
Acq On : 7 Mar 2025 18:21
Operator : RC/JU
Sample : Q1514-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
FB03062025

Quant Time: Mar 07 22:56:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



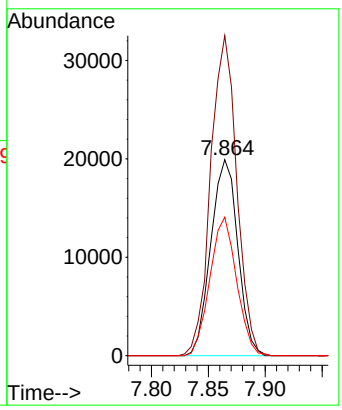


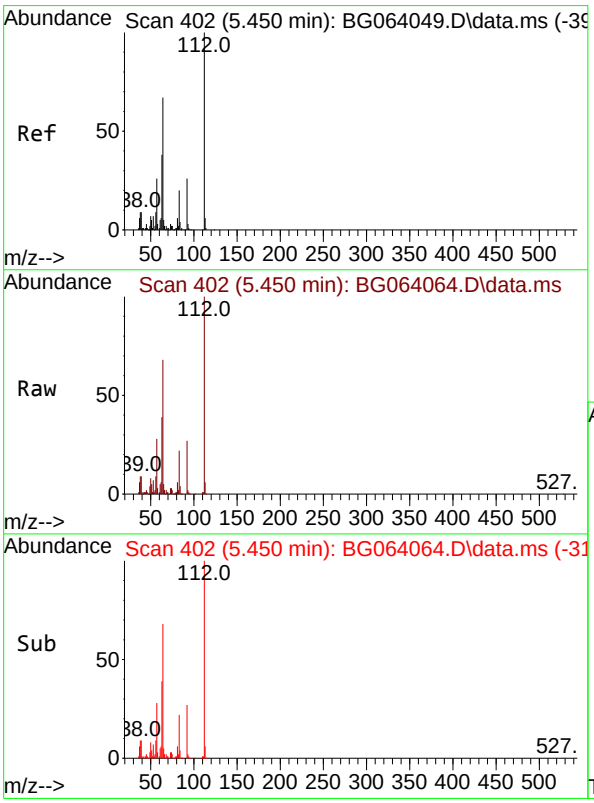
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.864 min Scan# 81
Delta R.T. -0.001 min
Lab File: BG064064.D
Acq: 7 Mar 2025 18:21

Instrument :
BNA_G
ClientSampleId :
FB03062025

Tgt Ion:152 Resp: 32854

Ion	Ratio	Lower	Upper
152	100		
150	163.3	129.2	193.8
115	70.7	63.0	94.6

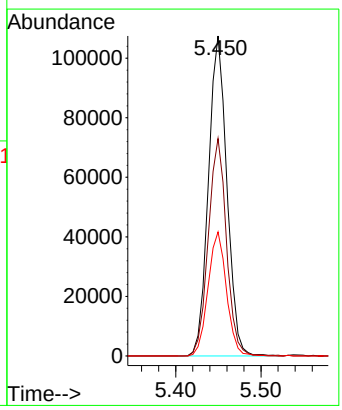


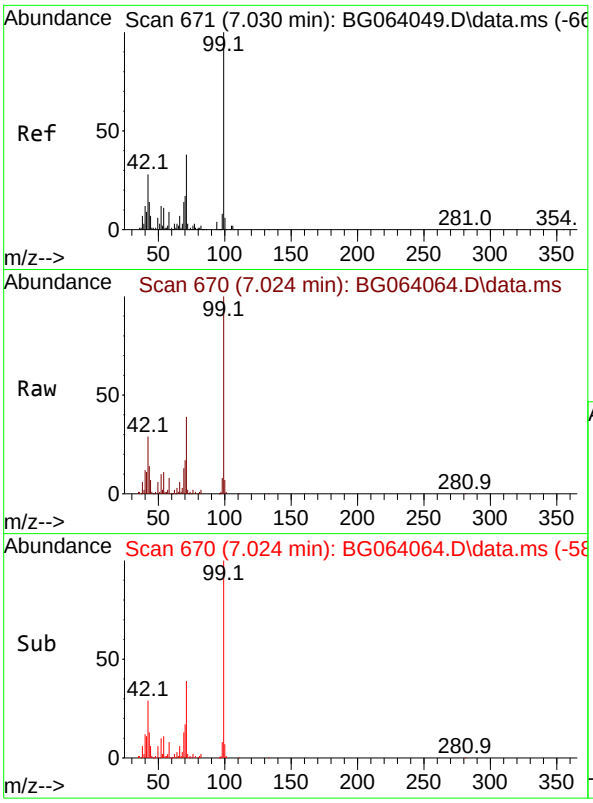


#5
2-Fluorophenol
Concen: 76.958 ng
RT: 5.450 min Scan# 402
Delta R.T. -0.000 min
Lab File: BG064064.D
Acq: 7 Mar 2025 18:21

Tgt Ion:112 Resp: 161925

Ion	Ratio	Lower	Upper
112	100		
64	67.9	53.7	80.5
63	38.8	30.2	45.4



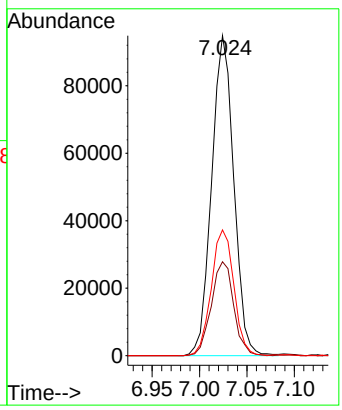


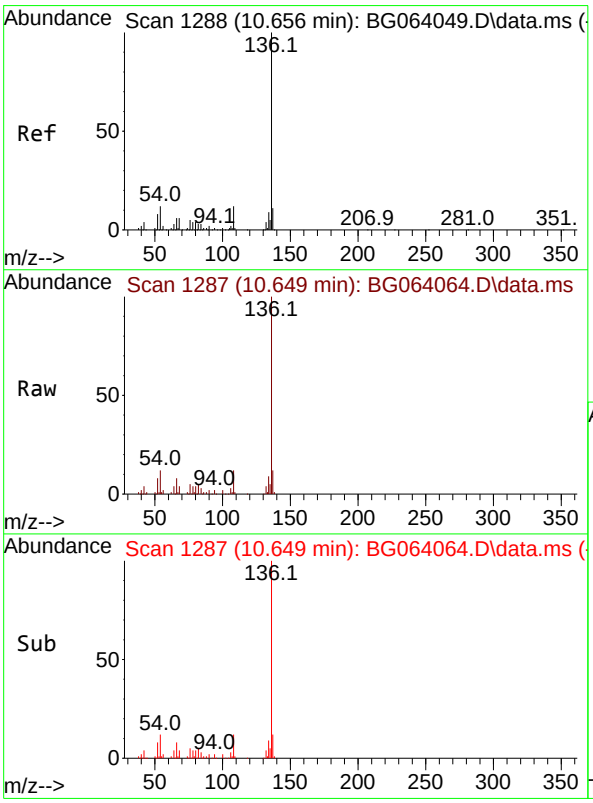
#7
Phenol-d6
Concen: 53.905 ng
RT: 7.024 min Scan# 6
Delta R.T. -0.006 min
Lab File: BG064064.D
Acq: 7 Mar 2025 18:21

Instrument :
BNA_G
ClientSampleId :
FB03062025

Tgt Ion: 99 Resp: 154295

Ion	Ratio	Lower	Upper
99	100		
42	29.4	22.7	34.1
71	39.3	30.6	46.0

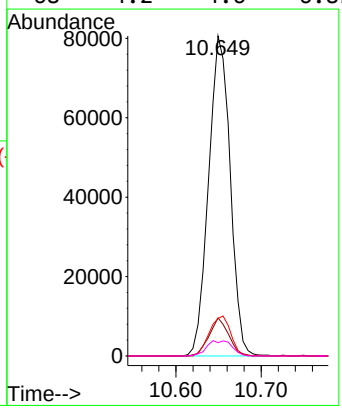


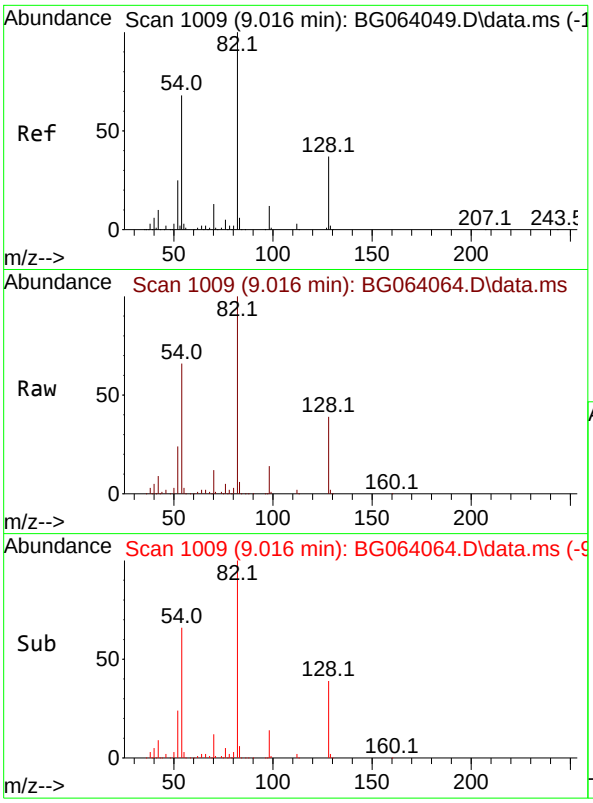


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.649 min Scan# 1287
Delta R.T. -0.007 min
Lab File: BG064064.D
Acq: 7 Mar 2025 18:21

Tgt Ion:136 Resp: 141929

Ion	Ratio	Lower	Upper
136	100		
137	11.9	8.5	12.7
54	11.7	9.9	14.9
68	4.2	4.6	6.8#



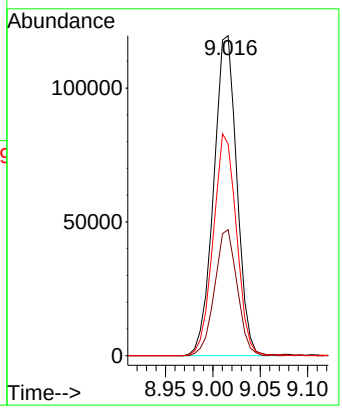


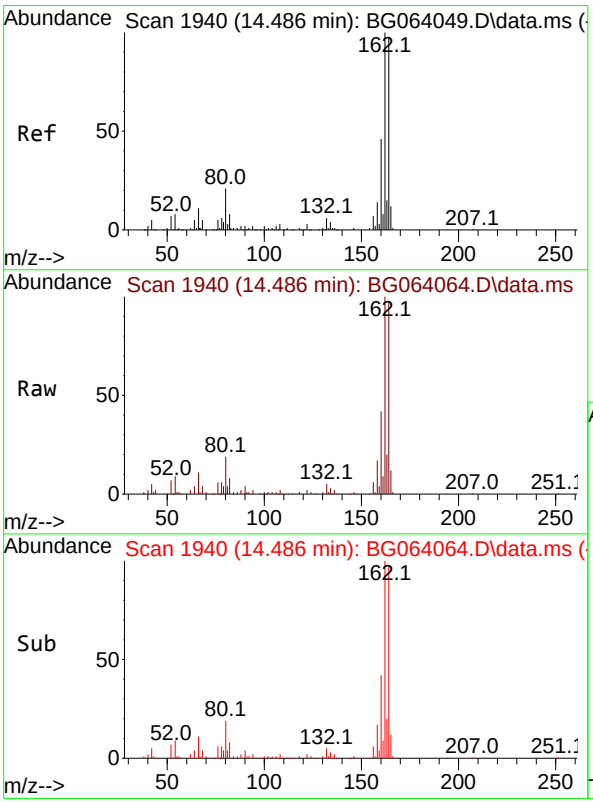
#23
Nitrobenzene-d5
Concen: 79.265 ng
RT: 9.016 min Scan# 1
Delta R.T. -0.000 min
Lab File: BG064064.D
Acq: 7 Mar 2025 18:21

Instrument :
BNA_G
ClientSampleId :
FB03062025

Tgt Ion: 82 Resp: 203577

Ion	Ratio	Lower	Upper
82	100		
128	39.3	30.0	45.0
54	66.2	54.7	82.1

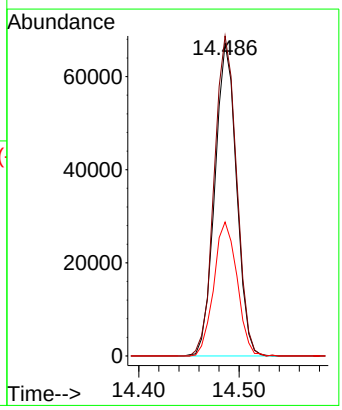


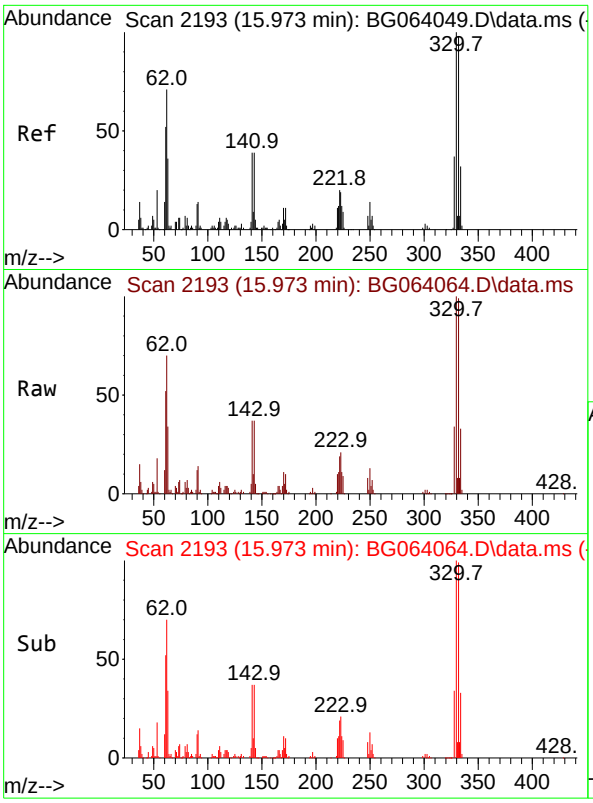


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.486 min Scan# 1940
Delta R.T. 0.000 min
Lab File: BG064064.D
Acq: 7 Mar 2025 18:21

Tgt Ion:164 Resp: 100513

Ion	Ratio	Lower	Upper
164	100		
162	102.3	81.4	122.0
160	42.8	37.0	55.6



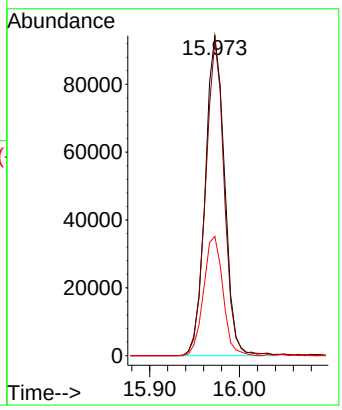


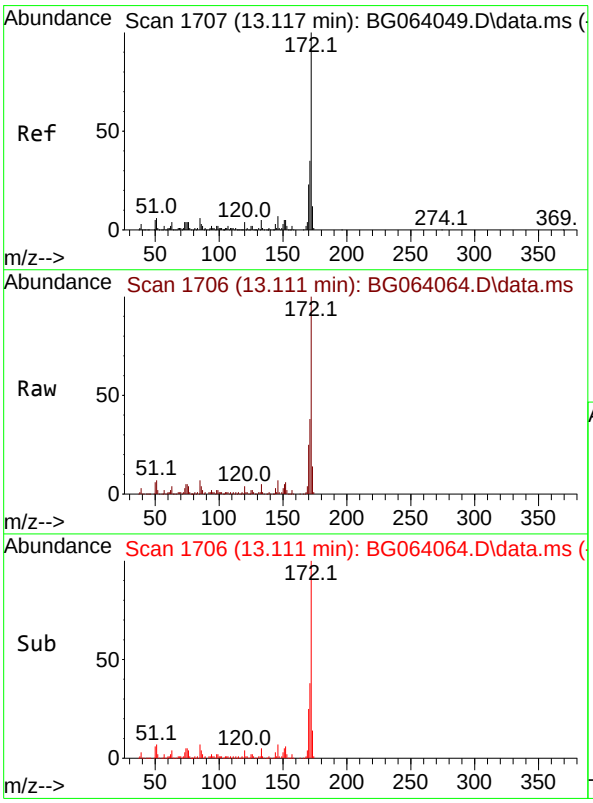
#42
2,4,6-Tribromophenol
Concen: 126.028 ng
RT: 15.973 min Scan# 21
Delta R.T. -0.000 min
Lab File: BG064064.D
Acq: 7 Mar 2025 18:21

Instrument :
BNA_G
ClientSampleId :
FB03062025

Tgt Ion:330 Resp: 140808

Ion	Ratio	Lower	Upper
330	100		
332	96.2	76.7	115.1
141	37.4	29.7	44.5

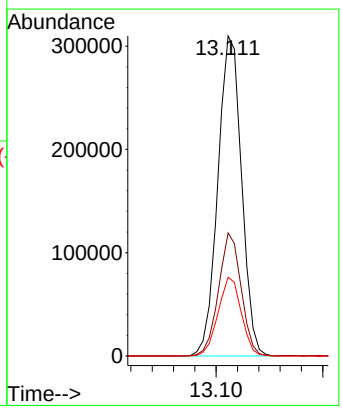


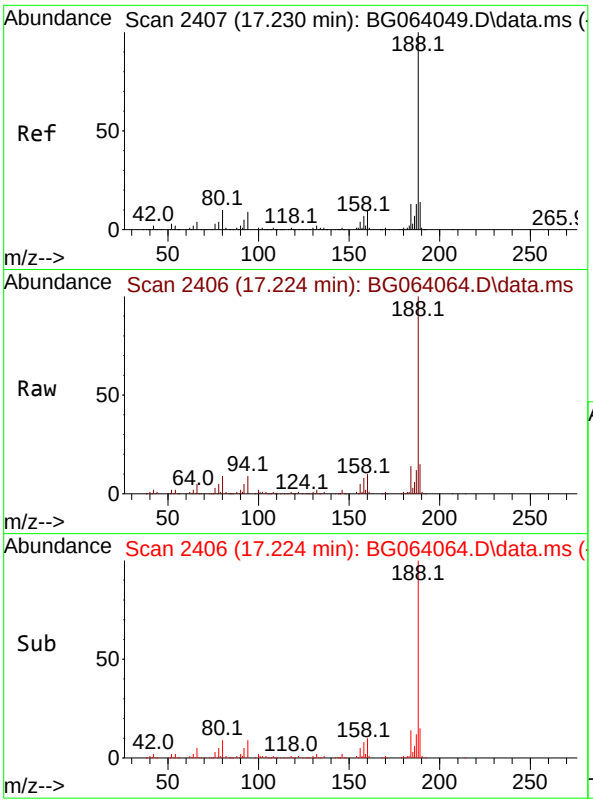


#45
2-Fluorobiphenyl
Concen: 72.108 ng
RT: 13.111 min Scan# 1706
Delta R.T. -0.006 min
Lab File: BG064064.D
Acq: 7 Mar 2025 18:21

Tgt Ion:172 Resp: 477492

Ion	Ratio	Lower	Upper
172	100		
171	38.5	28.0	42.0
170	24.6	18.7	28.1



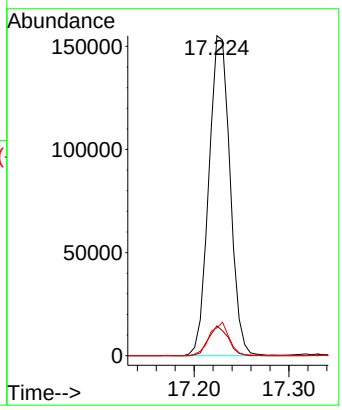


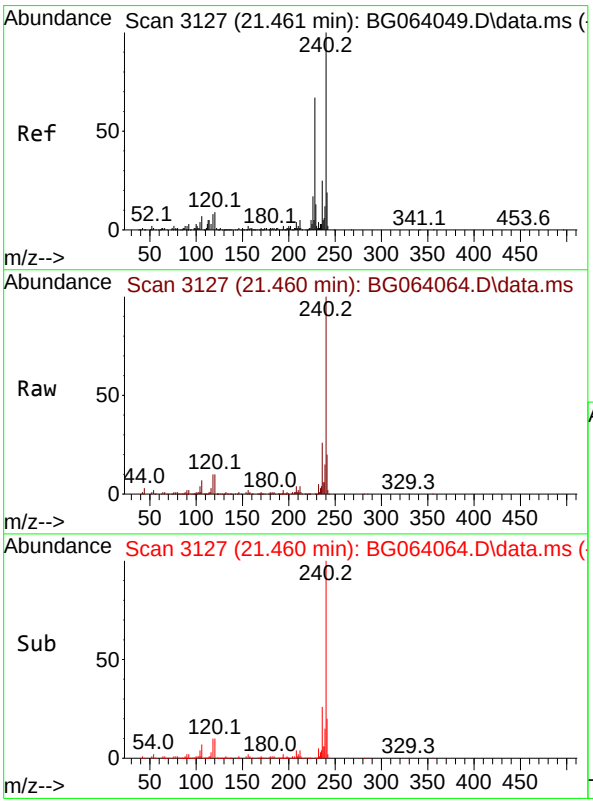
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.224 min Scan# 24
Delta R.T. -0.006 min
Lab File: BG064064.D
Acq: 7 Mar 2025 18:21

Instrument :
BNA_G
ClientSampleId :
FB03062025

Tgt Ion:188 Resp: 241431

Ion	Ratio	Lower	Upper
188	100		
94	9.3	6.9	10.3
80	8.7	8.1	12.1

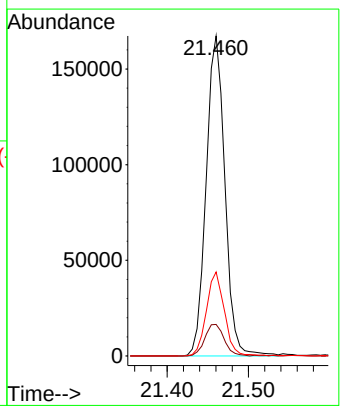


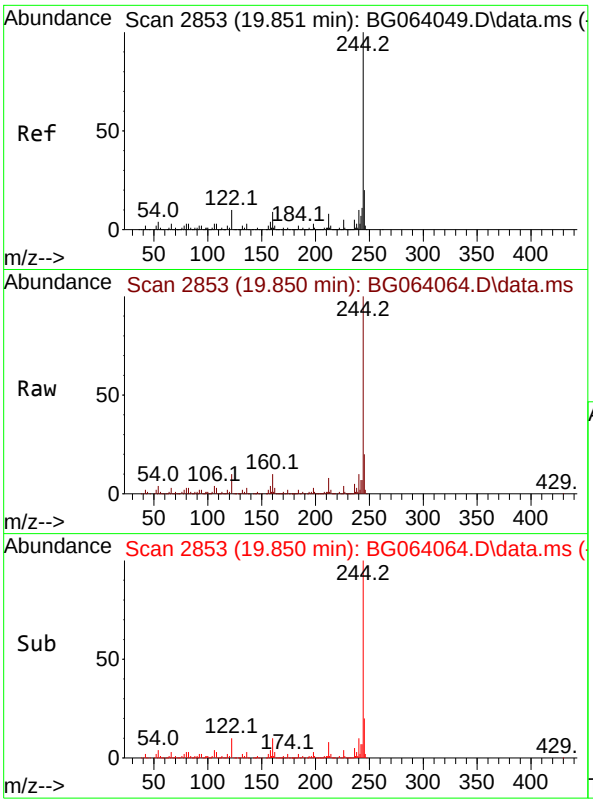


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.460 min Scan# 3127
Delta R.T. -0.000 min
Lab File: BG064064.D
Acq: 7 Mar 2025 18:21

Tgt Ion:240 Resp: 267874

Ion	Ratio	Lower	Upper
240	100		
120	9.8	7.2	10.8
236	26.3	20.2	30.2



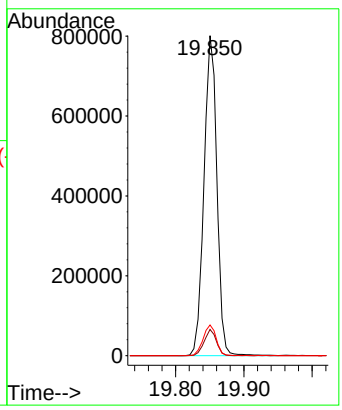


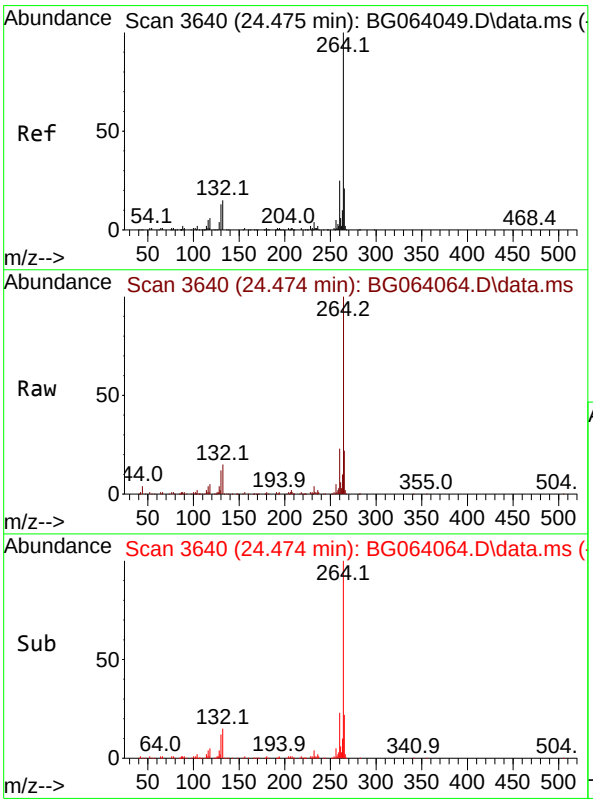
#79
Terphenyl-d14
Concen: 79.507 ng
RT: 19.850 min Scan# 2
Delta R.T. -0.000 min
Lab File: BG064064.D
Acq: 7 Mar 2025 18:21

Instrument :
BNA_G
ClientSampleId :
FB03062025

Tgt Ion:244 Resp: 1053306

Ion	Ratio	Lower	Upper
244	100		
212	8.2	6.2	9.4
122	9.6	8.0	12.0

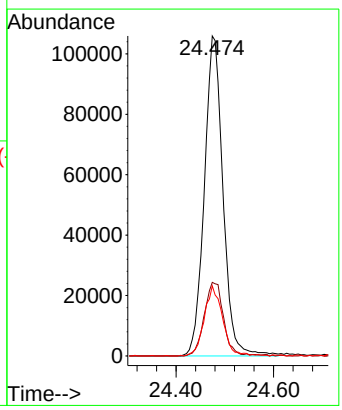




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.474 min Scan# 3640
Delta R.T. -0.000 min
Lab File: BG064064.D
Acq: 7 Mar 2025 18:21

Tgt Ion:264 Resp: 281608

Ion	Ratio	Lower	Upper
264	100		
260	23.0	19.6	29.4
265	21.9	16.6	25.0



Sample Results: **BG064064.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064064.D
Acq On : 7 Mar 2025 18:21
Operator : RC/JU
Sample : Q1514-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
FB03062025

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BG064064.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.985	316	323	331	rBV	47382	71468	2.38%	0.651%
2	5.450	395	402	415	rVB	446350	668562	22.25%	6.093%
3	7.024	663	670	682	rBV	321654	528703	17.59%	4.818%
4	7.864	805	813	821	rBV	138899	230194	7.66%	2.098%
5	9.010	1000	1008	1016	rBV	385349	666549	22.18%	6.074%
6	10.649	1280	1287	1296	rVB	183654	324890	10.81%	2.961%
7	13.111	1697	1706	1714	rBV	1014662	1522306	50.65%	13.873%
8	14.486	1934	1940	1948	rVB	305561	471071	15.67%	4.293%
9	15.973	2185	2193	2205	rBV	869847	1272266	42.33%	11.595%
10	17.224	2399	2406	2414	rBV2	398573	619487	20.61%	5.646%
11	17.900	2516	2521	2528	rBV4	23420	32435	1.08%	0.296%
12	18.129	2556	2560	2565	rBV4	26539	36497	1.21%	0.333%
13	19.850	2847	2853	2871	rBV	2320672	3005310	100.00%	27.388%
14	21.460	3120	3127	3139	rBV	476447	763120	25.39%	6.955%
15	24.480	3630	3641	3651	rBV	283322	760132	25.29%	6.927%

Sum of corrected areas: 10972990

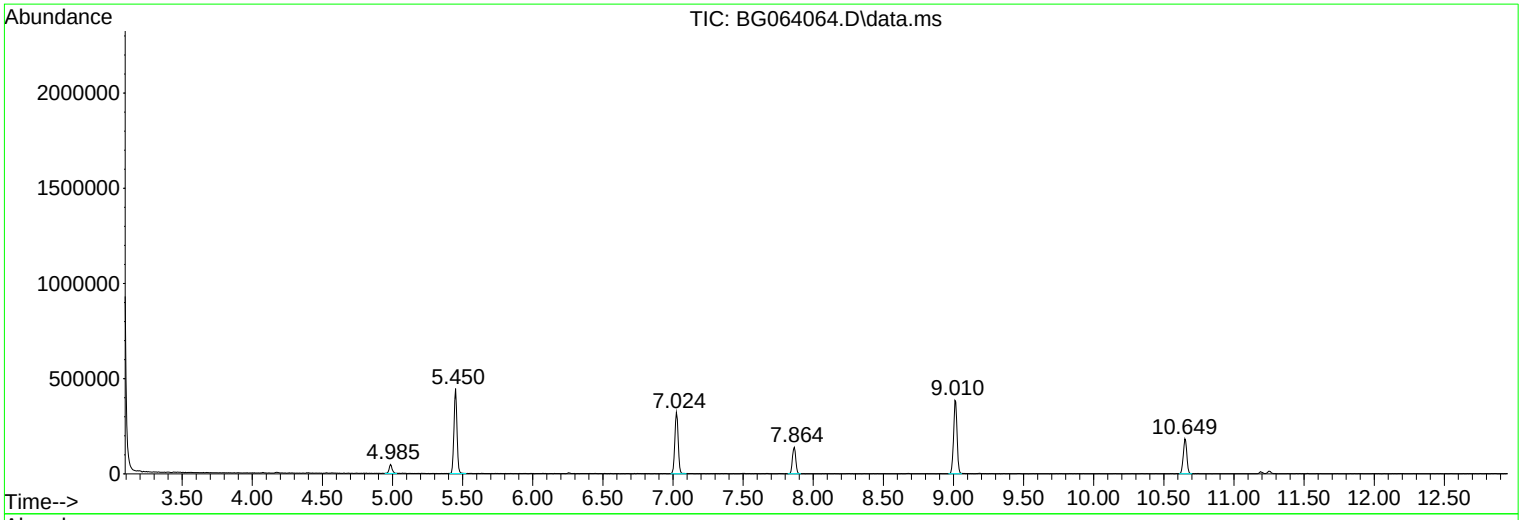
Sample Results: **BG064064.D**

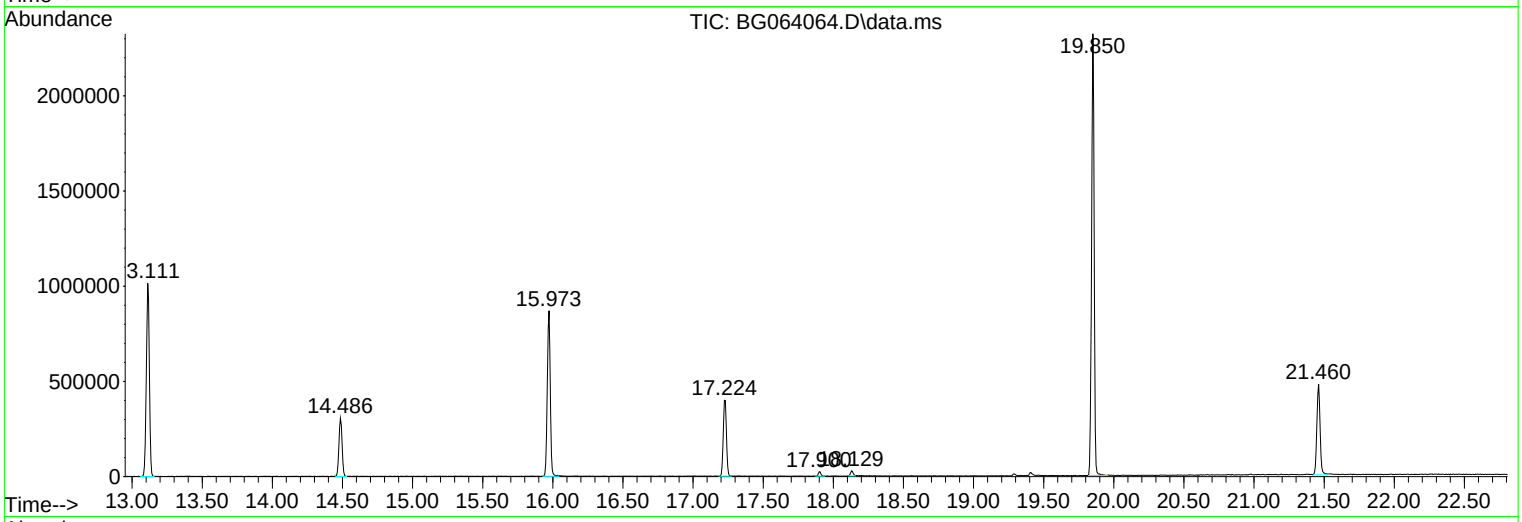
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064064.D
Acq On : 7 Mar 2025 18:21
Operator : RC/JU
Sample : Q1514-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

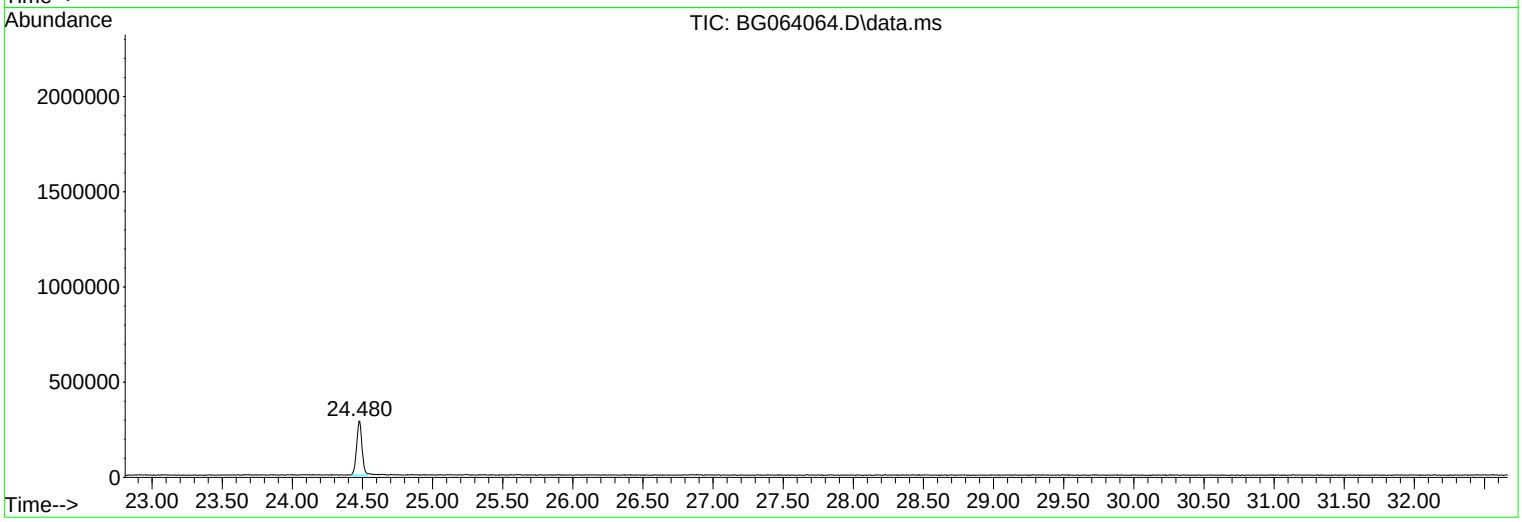
Instrument :
BNA_G
ClientSampleId :
FB03062025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064064.D
Acq On : 7 Mar 2025 18:21
Operator : RC/JU
Sample : Q1514-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
FB03062025

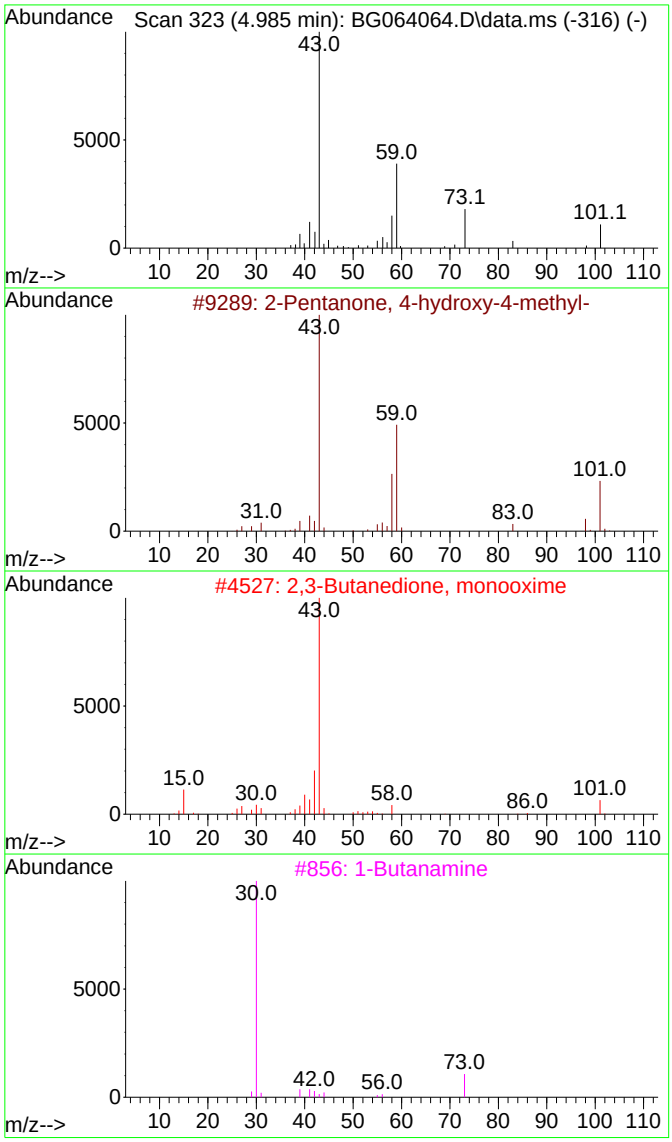
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

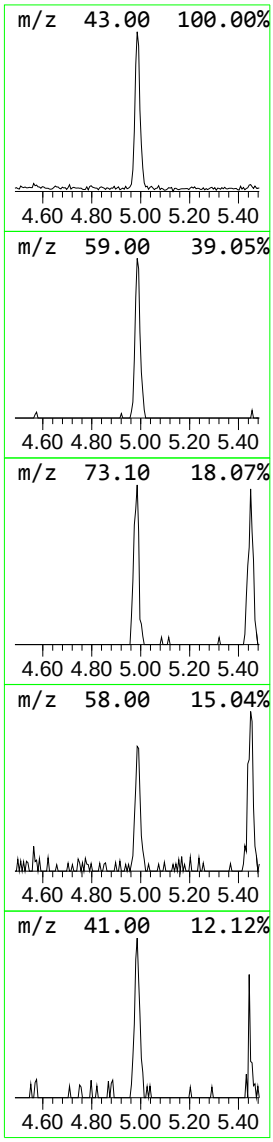
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.985	6.21 ng	71468	1,4-Dichlorobenzene-d4	7.864

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	9
3	1-Butanamine	73	C4H11N	000109-73-9	9
4	Diacetamide	101	C4H7NO2	000625-77-4	9
5	Isobutyl acetate	116	C6H12O2	000110-19-0	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064064.D
Acq On : 7 Mar 2025 18:21
Operator : RC/JU
Sample : Q1514-09
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
FB03062025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	4.985	6.2	ng	71468	1	7.864	230194	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064059.D
Acq On : 7 Mar 2025 14:58
Operator : RC/JU
Sample : PB167027BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PB167027BL

Quant Time: Mar 07 15:49:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

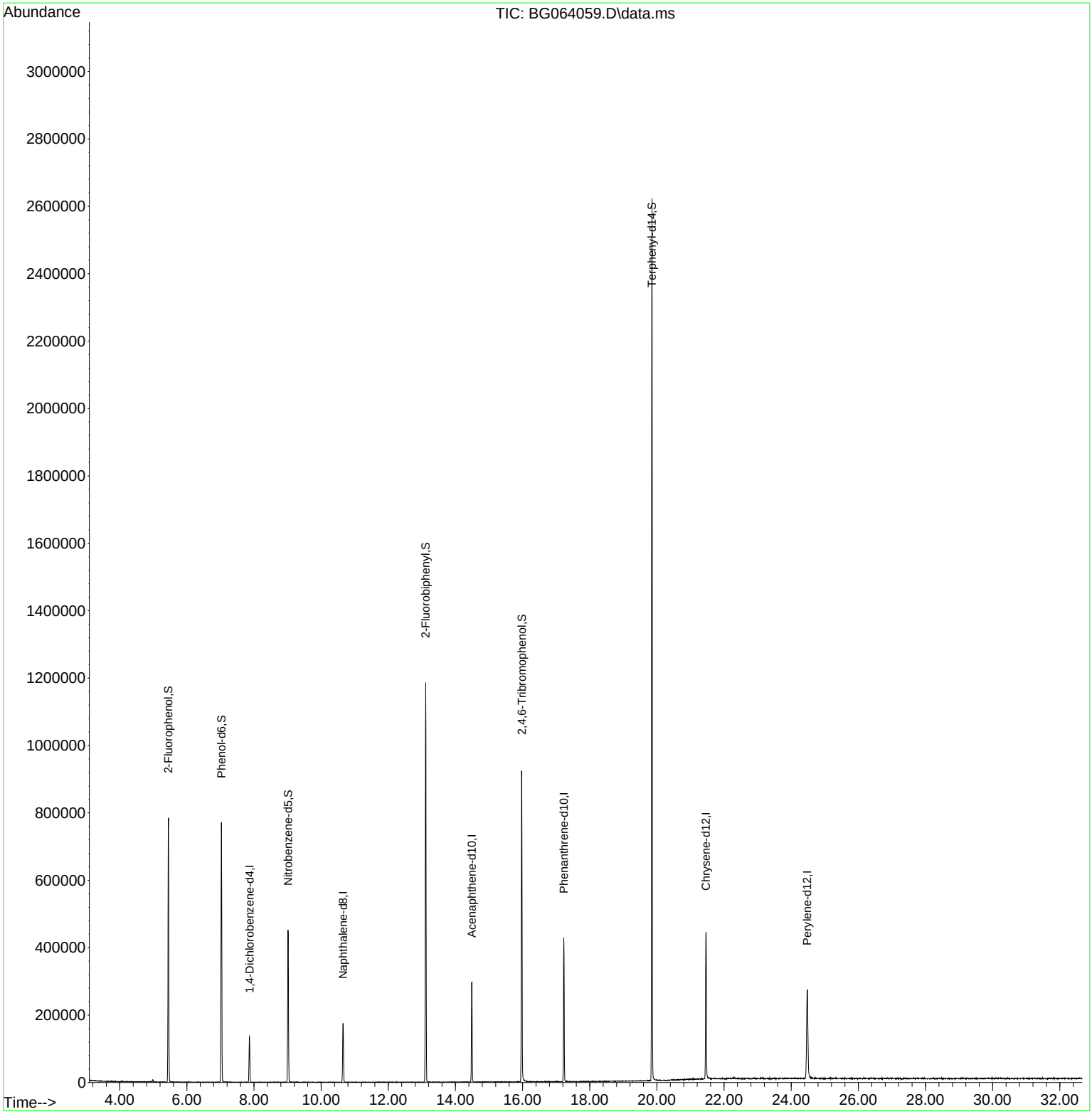
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.867	152	31906	20.000	ng	# 0.00
21) Naphthalene-d8	10.652	136	141288	20.000	ng	0.00
39) Acenaphthene-d10	14.488	164	97981	20.000	ng	0.00
64) Phenanthrene-d10	17.226	188	246502	20.000	ng	0.00
76) Chrysene-d12	21.457	240	261251	20.000	ng	0.00
86) Perylene-d12	24.477	264	265918	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.452	112	290016	141.931	ng	0.00
7) Phenol-d6	7.027	99	377339	135.745	ng	0.00
23) Nitrobenzene-d5	9.013	82	245156	95.888	ng	0.00
42) 2,4,6-Tribromophenol	15.975	330	158322	145.366	ng	0.00
45) 2-Fluorobiphenyl	13.114	172	572019	88.615	ng	0.00
79) Terphenyl-d14	19.853	244	1197853	92.710	ng	0.00
Target Compounds						Qvalue

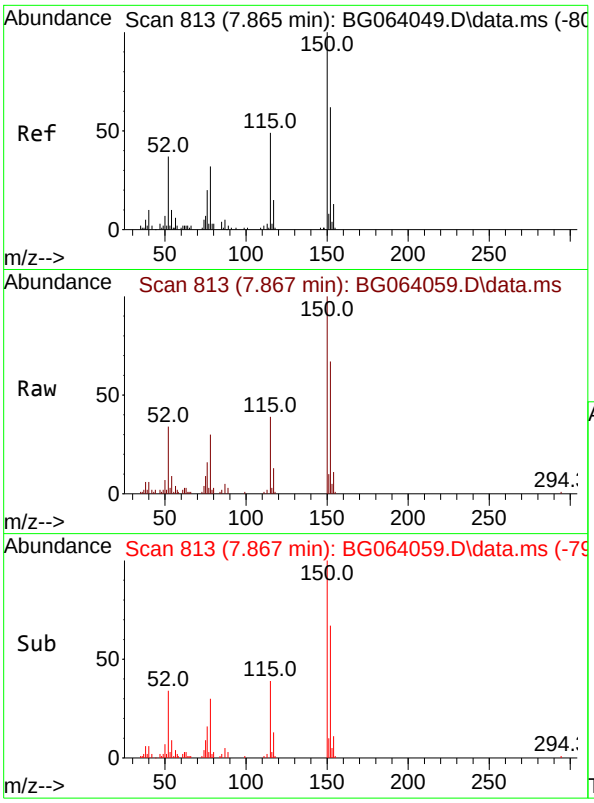
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064059.D
Acq On : 7 Mar 2025 14:58
Operator : RC/JU
Sample : PB167027BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PB167027BL

Quant Time: Mar 07 15:49:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



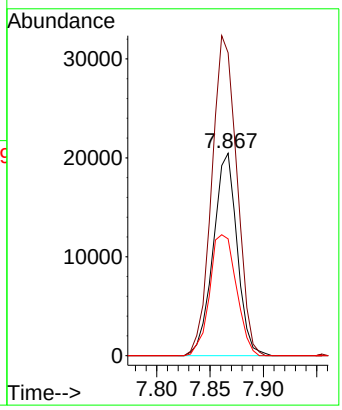


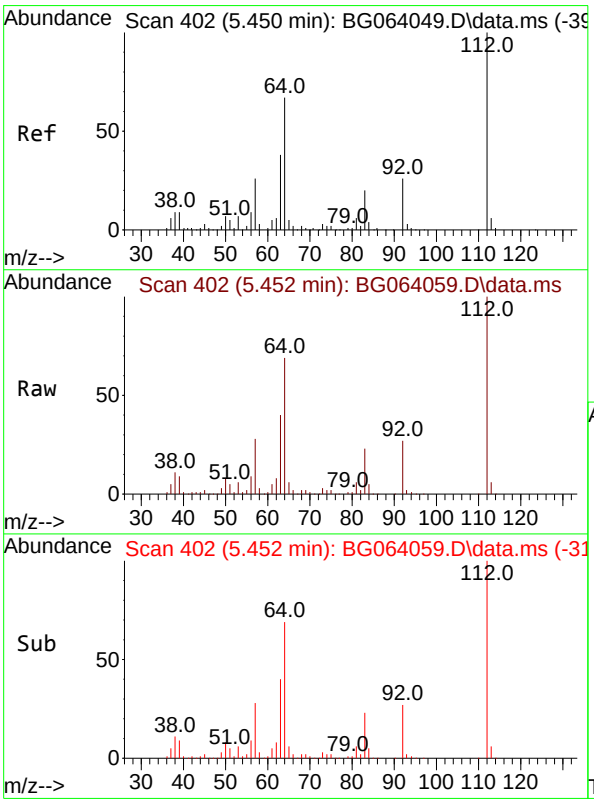
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.867 min Scan# 81
Delta R.T. 0.002 min
Lab File: BG064059.D
Acq: 7 Mar 2025 14:58

Instrument :
BNA_G
ClientSampleId :
PB167027BL

Tgt Ion:152 Resp: 31906

Ion	Ratio	Lower	Upper
152	100		
150	149.6	129.2	193.8
115	57.7	63.0	94.6#

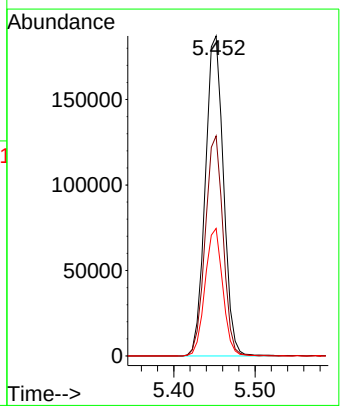


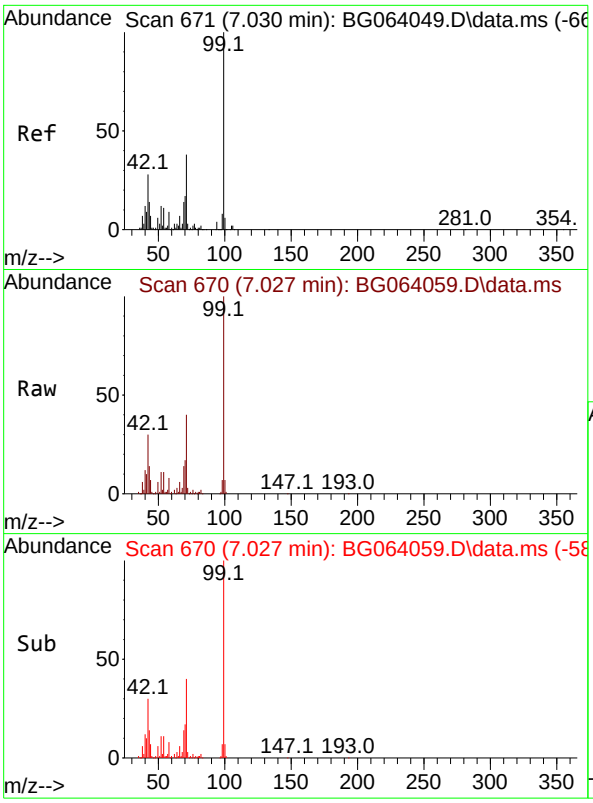


#5
2-Fluorophenol
Concen: 141.931 ng
RT: 5.452 min Scan# 402
Delta R.T. 0.002 min
Lab File: BG064059.D
Acq: 7 Mar 2025 14:58

Tgt Ion:112 Resp: 290016

Ion	Ratio	Lower	Upper
112	100		
64	68.8	53.7	80.5
63	39.9	30.2	45.4



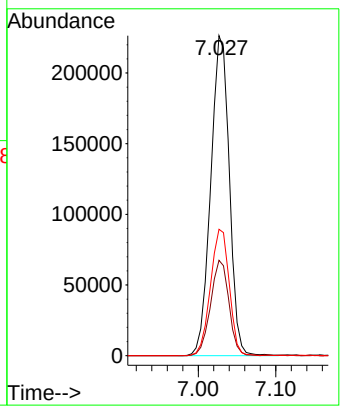


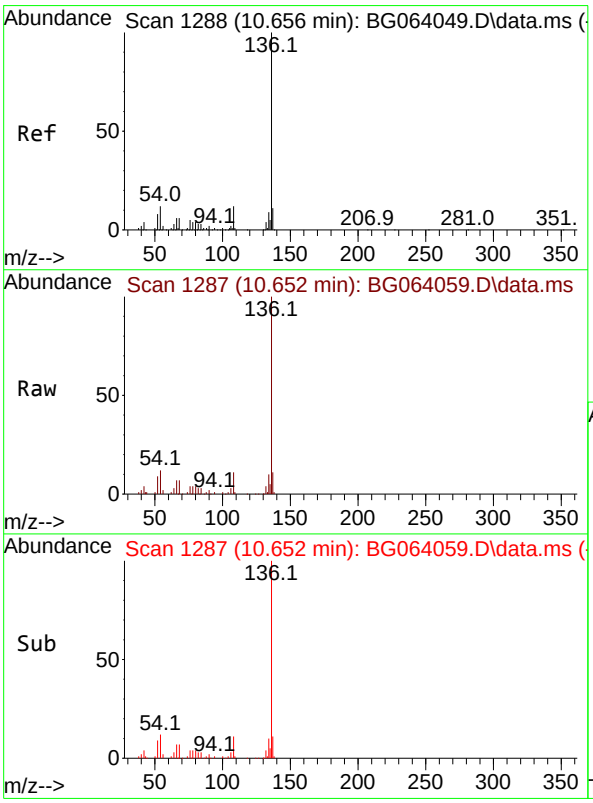
#7
Phenol-d6
Concen: 135.745 ng
RT: 7.027 min Scan# 6
Delta R.T. -0.004 min
Lab File: BG064059.D
Acq: 7 Mar 2025 14:58

Instrument :
BNA_G
ClientSampleId :
PB167027BL

Tgt Ion: 99 Resp: 377339

Ion	Ratio	Lower	Upper
99	100		
42	29.8	22.7	34.1
71	39.5	30.6	46.0

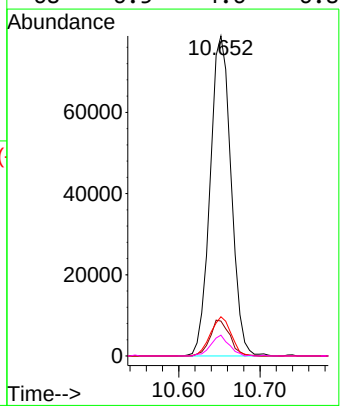


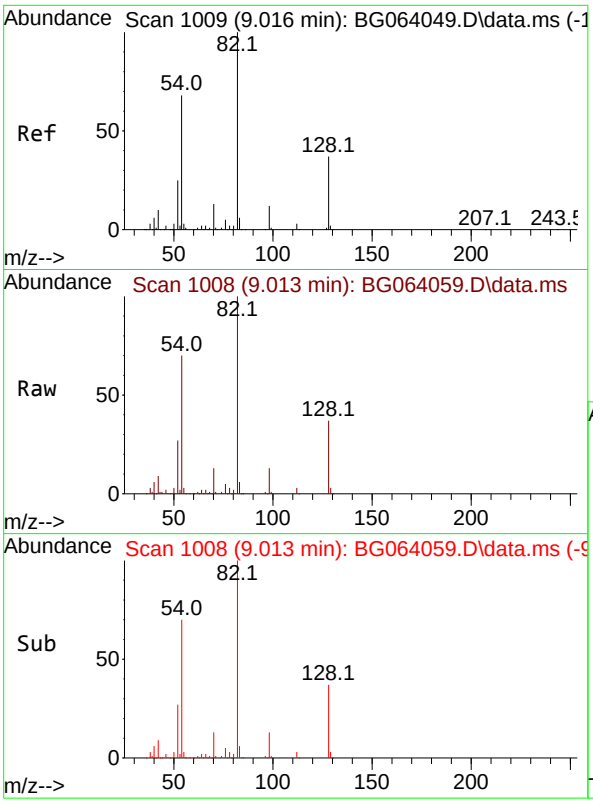


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.652 min Scan# 1287
Delta R.T. -0.004 min
Lab File: BG064059.D
Acq: 7 Mar 2025 14:58

Tgt Ion:136 Resp: 141288

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.5	12.7
54	12.2	9.9	14.9
68	6.5	4.6	6.8



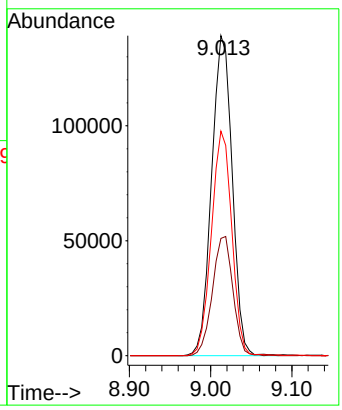


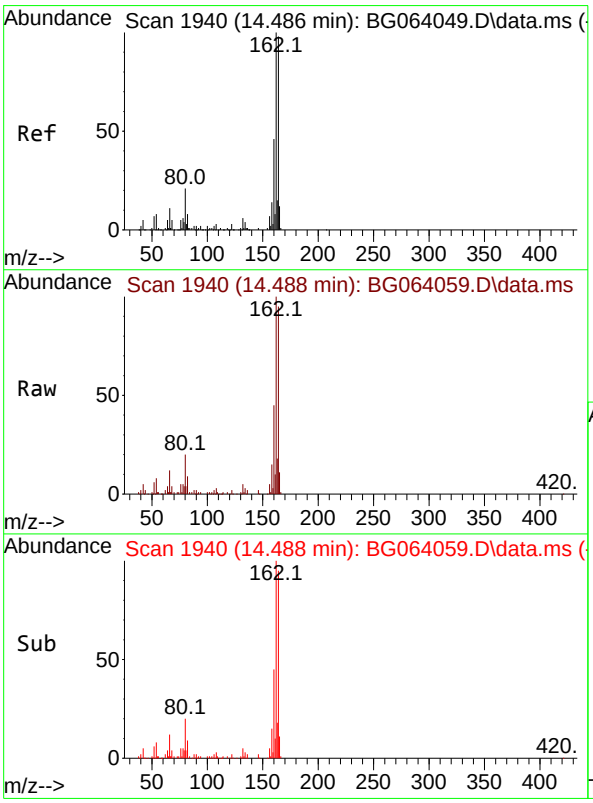
#23
Nitrobenzene-d5
Concen: 95.888 ng
RT: 9.013 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064059.D
Acq: 7 Mar 2025 14:58

Instrument :
BNA_G
ClientSampleId :
PB167027BL

Tgt Ion: 82 Resp: 245156

Ion	Ratio	Lower	Upper
82	100		
128	36.6	30.0	45.0
54	70.2	54.7	82.1

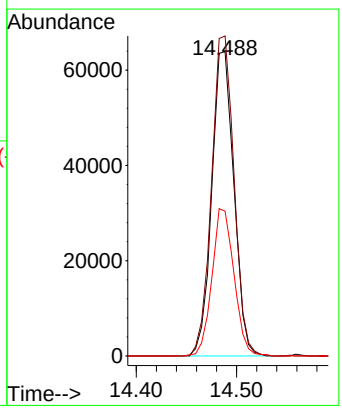


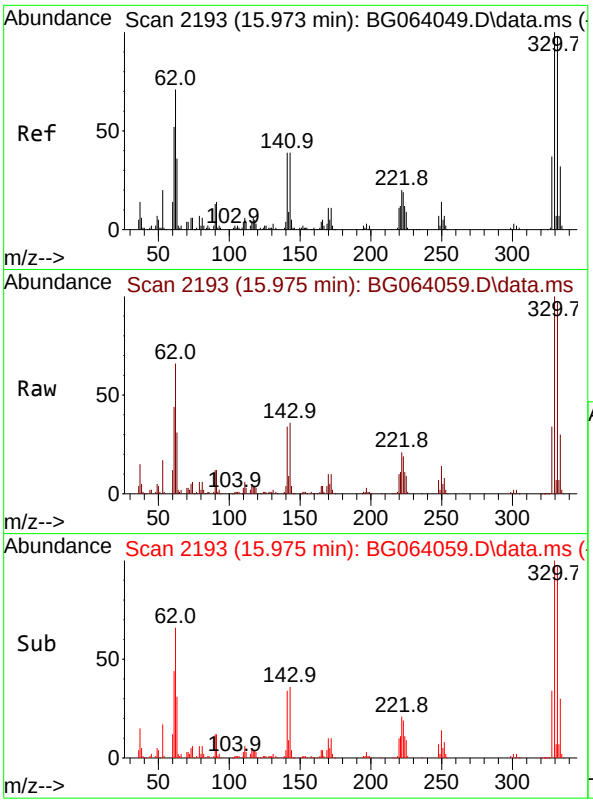


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.488 min Scan# 1940
Delta R.T. 0.002 min
Lab File: BG064059.D
Acq: 7 Mar 2025 14:58

Tgt Ion:164 Resp: 97981

Ion	Ratio	Lower	Upper
164	100		
162	105.2	81.4	122.0
160	47.6	37.0	55.6



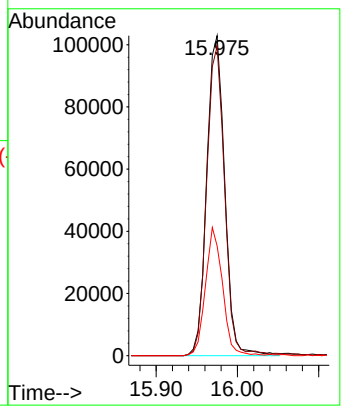


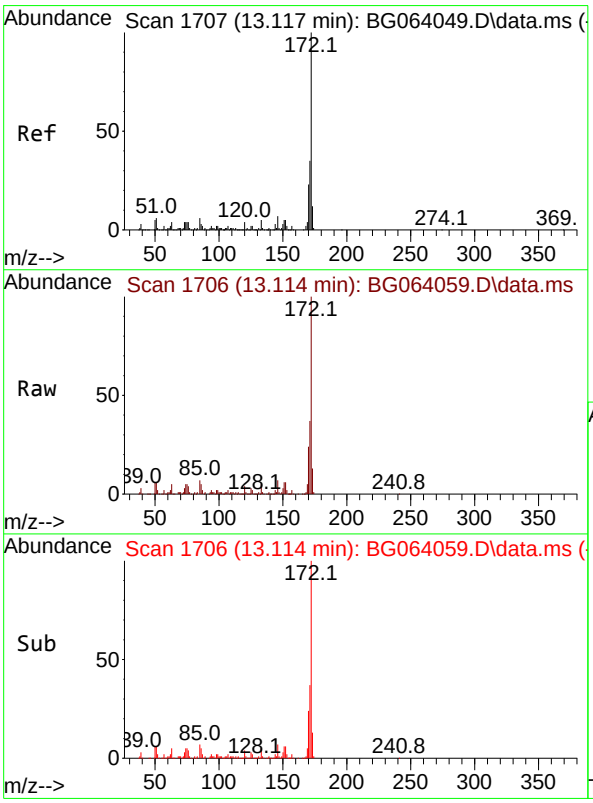
#42
2,4,6-Tribromophenol
Concen: 145.366 ng
RT: 15.975 min Scan# 21
Delta R.T. 0.002 min
Lab File: BG064059.D
Acq: 7 Mar 2025 14:58

Instrument :
BNA_G
ClientSampleId :
PB167027BL

Tgt Ion:330 Resp: 158322

Ion	Ratio	Lower	Upper
330	100		
332	96.8	76.7	115.1
141	38.0	29.7	44.5

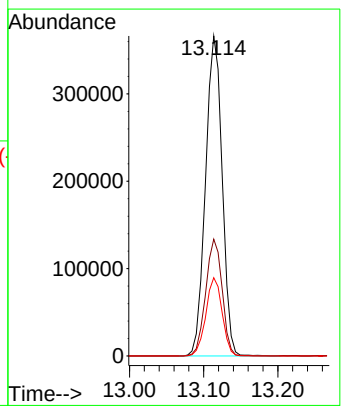


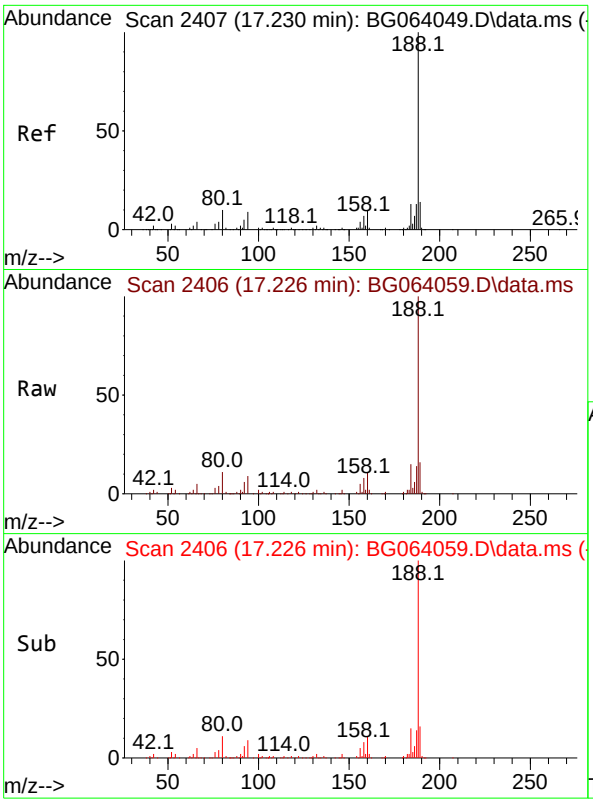


#45
2-Fluorobiphenyl
Concen: 88.615 ng
RT: 13.114 min Scan# 1706
Delta R.T. -0.004 min
Lab File: BG064059.D
Acq: 7 Mar 2025 14:58

Tgt Ion:172 Resp: 572019

Ion	Ratio	Lower	Upper
172	100		
171	36.5	28.0	42.0
170	24.5	18.7	28.1



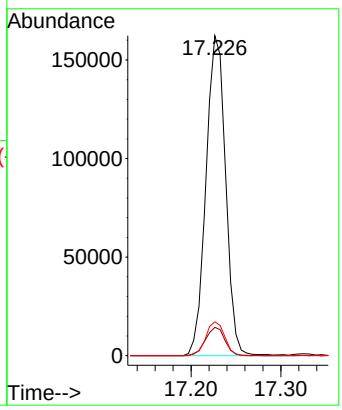


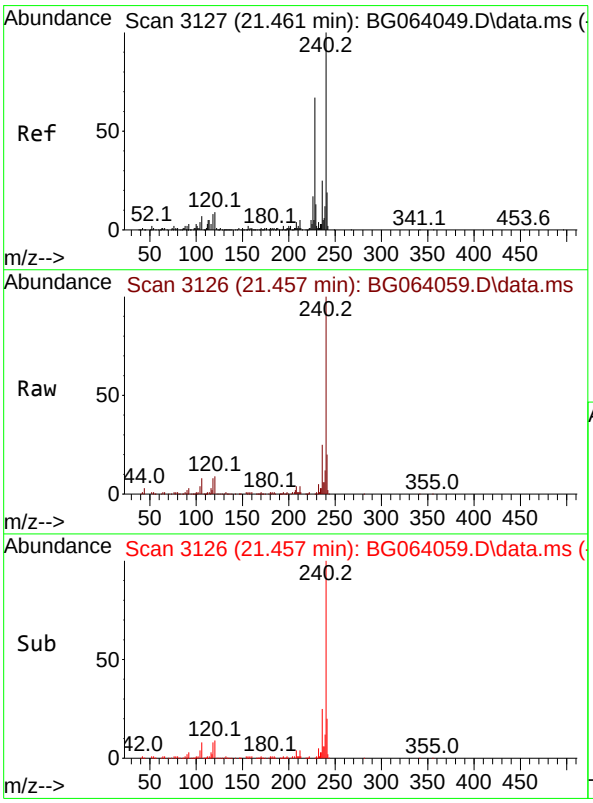
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.226 min Scan# 24
Delta R.T. -0.004 min
Lab File: BG064059.D
Acq: 7 Mar 2025 14:58

Instrument :
BNA_G
ClientSampleId :
PB167027BL

Tgt Ion:188 Resp: 246502

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.9	10.3
80	10.6	8.1	12.1

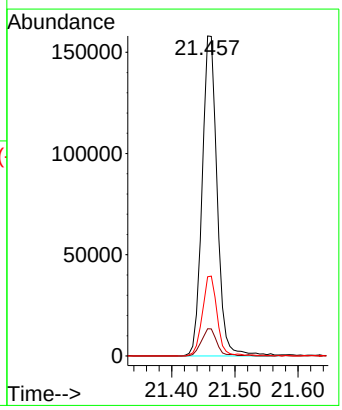


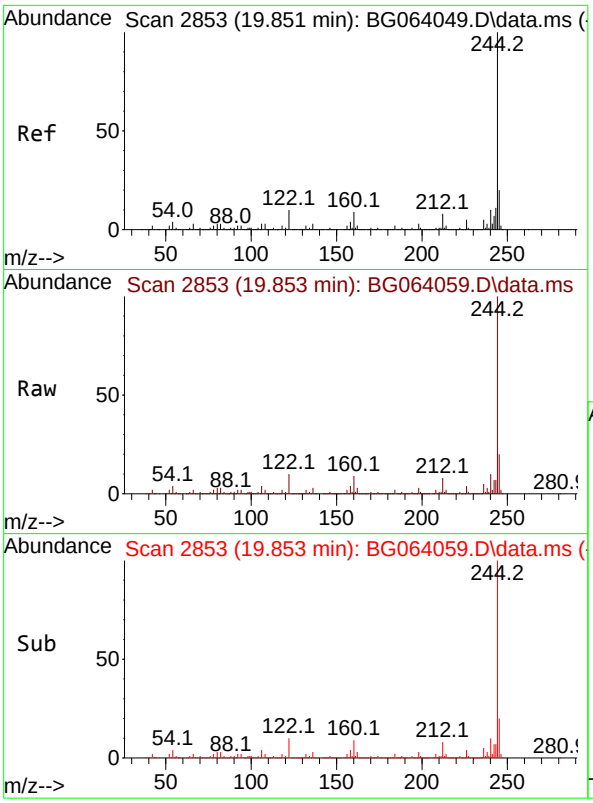


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.457 min Scan# 3126
Delta R.T. -0.004 min
Lab File: BG064059.D
Acq: 7 Mar 2025 14:58

Tgt Ion:240 Resp: 261251

Ion	Ratio	Lower	Upper
240	100		
120	8.5	7.2	10.8
236	24.8	20.2	30.2



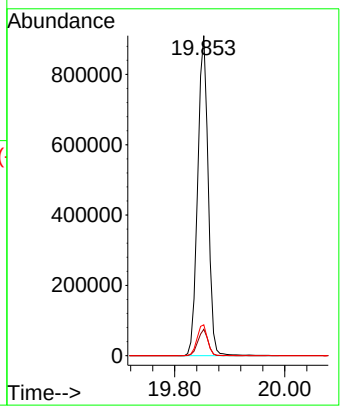


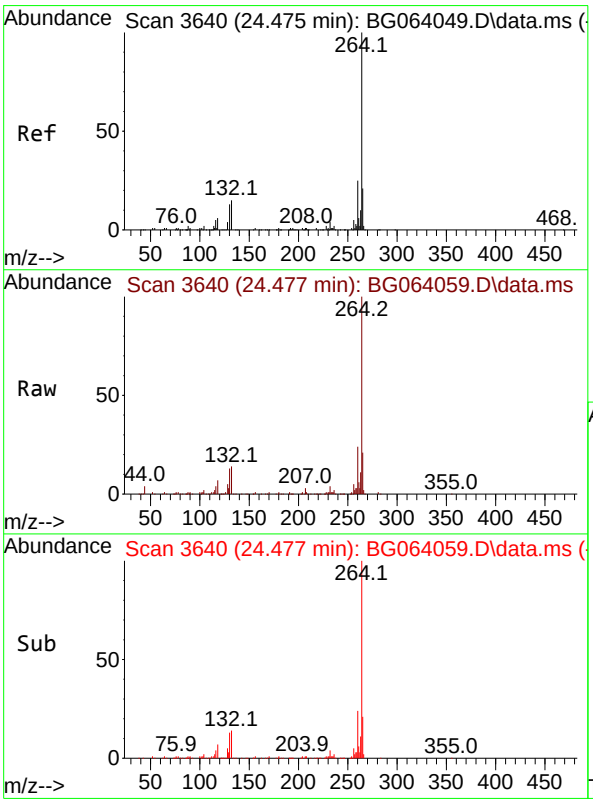
#79
Terphenyl-d14
Concen: 92.710 ng
RT: 19.853 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG064059.D
Acq: 7 Mar 2025 14:58

Instrument :
BNA_G
ClientSampleId :
PB167027BL

Tgt Ion:244 Resp: 1197853

Ion	Ratio	Lower	Upper
244	100		
212	8.3	6.2	9.4
122	9.7	8.0	12.0

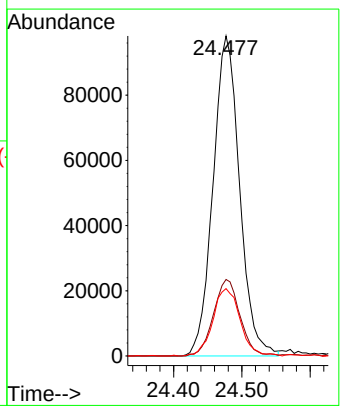




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.477 min Scan# 3640
Delta R.T. 0.002 min
Lab File: BG064059.D
Acq: 7 Mar 2025 14:58

Tgt Ion:264 Resp: 265918

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.6	29.4
265	21.0	16.6	25.0



Sample Results: **BG064059.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064059.D
Acq On : 7 Mar 2025 14:58
Operator : RC/JU
Sample : PB167027BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PB167027BL

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BG064059.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.452	394	402	411	rBV	784129	1201479	35.30%	9.245%
2	7.027	661	670	679	rBV	770741	1299404	38.18%	9.999%
3	7.861	805	812	819	rBV	134110	224928	6.61%	1.731%
4	9.013	999	1008	1019	rBV	452759	800678	23.53%	6.161%
5	10.652	1281	1287	1294	rBV	174439	312496	9.18%	2.405%
6	13.114	1699	1706	1713	rBV	1184922	1817479	53.40%	13.986%
7	14.488	1933	1940	1949	rBV	297271	455000	13.37%	3.501%
8	15.969	2185	2192	2205	rBV	923277	1435902	42.19%	11.049%
9	17.226	2400	2406	2413	rBV	427548	629184	18.49%	4.842%
10	19.853	2847	2853	2864	rBV	2616715	3403364	100.00%	26.189%
11	21.463	3120	3127	3136	rBV	434185	704730	20.71%	5.423%
12	24.477	3630	3640	3653	rBV2	263186	710669	20.88%	5.469%

Sum of corrected areas: 12995313

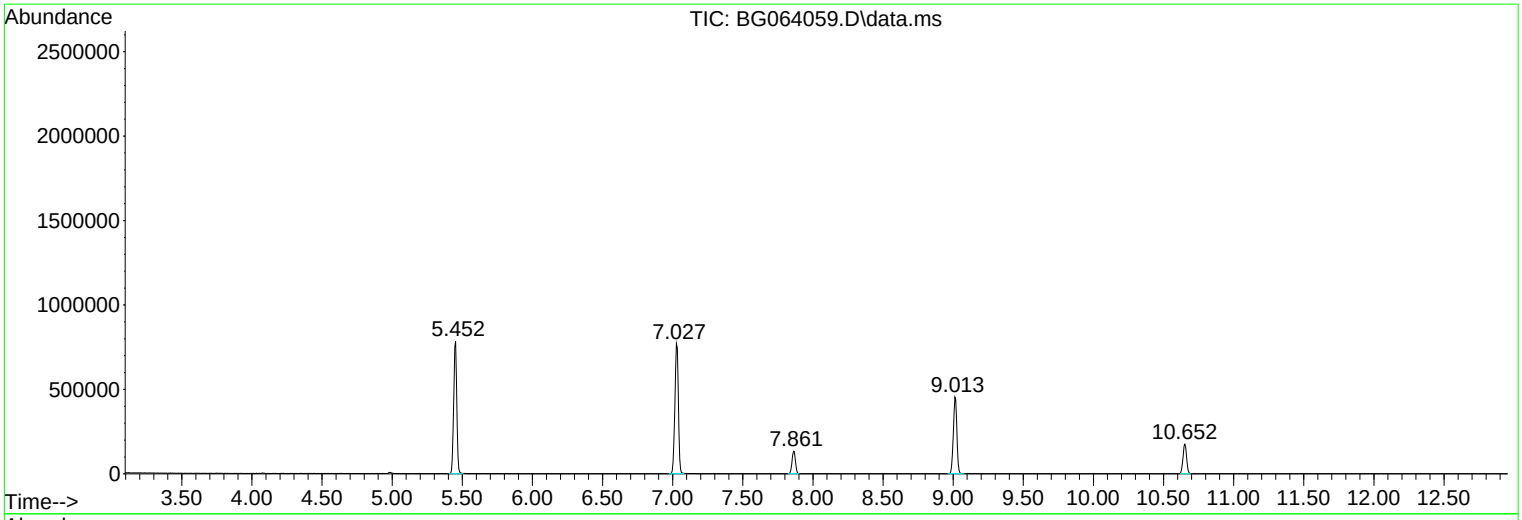
Sample Results: **BG064059.D**

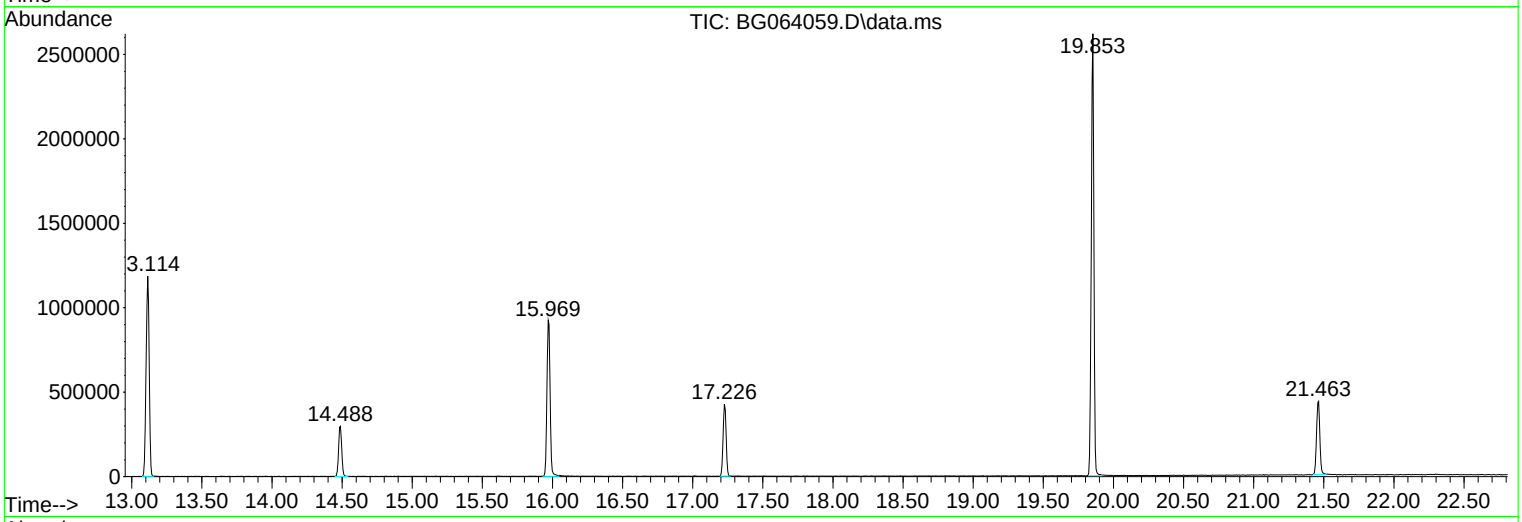
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064059.D
Acq On : 7 Mar 2025 14:58
Operator : RC/JU
Sample : PB167027BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

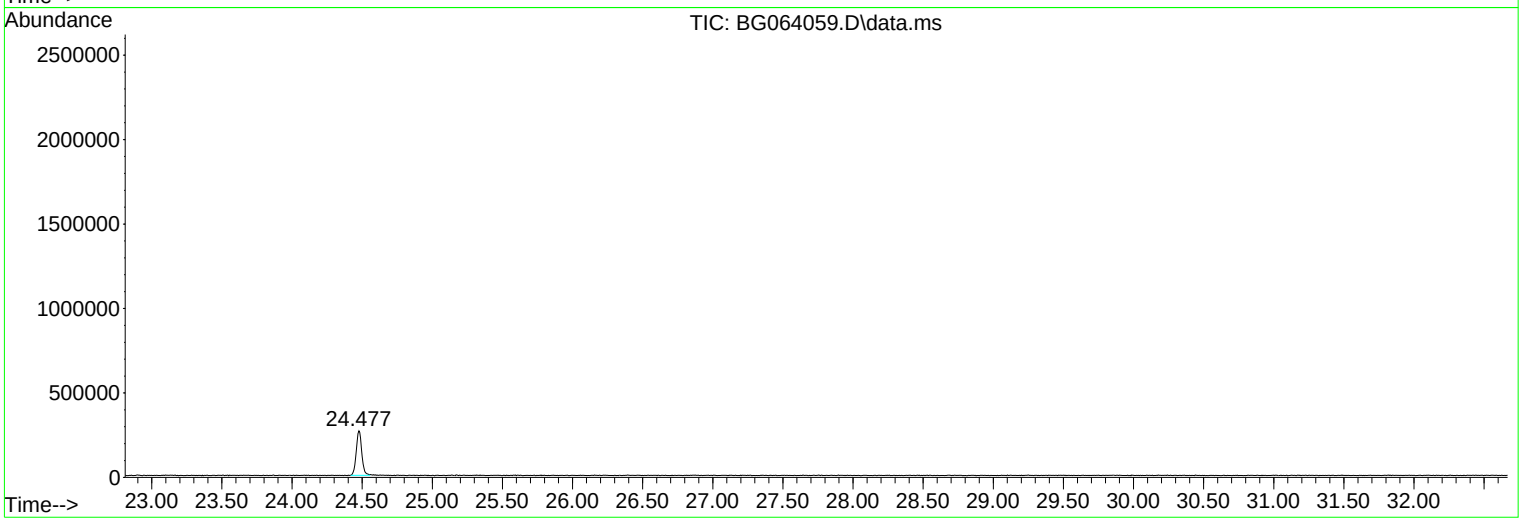
Instrument :
BNA_G
ClientSampleId :
PB167027BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Library Search Compound Report

Sample Results: **BG064059.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064059.D
Acq On : 7 Mar 2025 14:58
Operator : RC/JU
Sample : PB167027BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PB167027BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064059.D
Acq On : 7 Mar 2025 14:58
Operator : RC/JU
Sample : PB167027BL
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PB167027BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064057.D
Acq On : 7 Mar 2025 13:37
Operator : RC/JU
Sample : PB167031BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PB167031BL

Quant Time: Mar 07 14:20:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

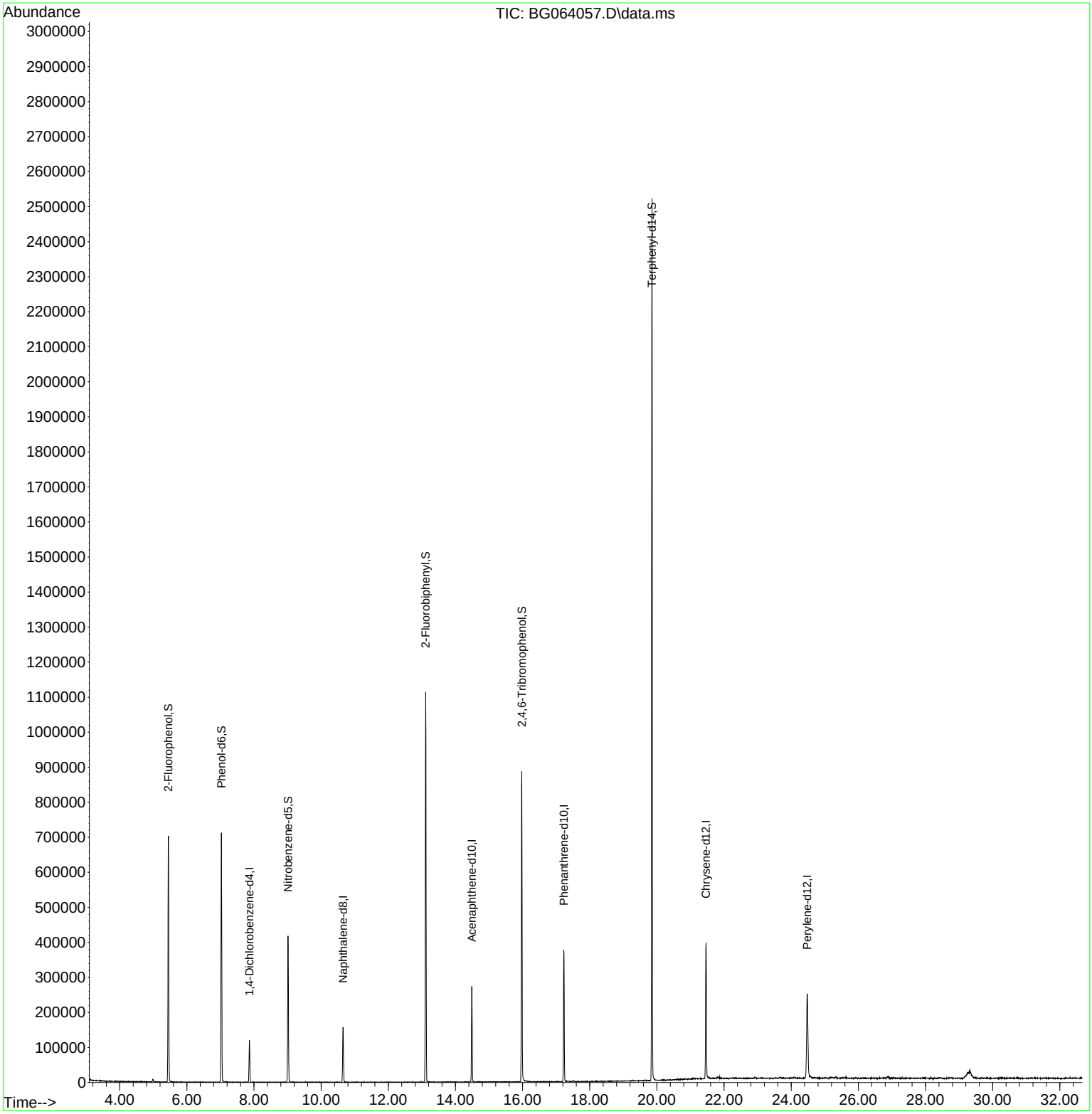
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.861	152	29333	20.000	ng	0.00
21) Naphthalene-d8	10.651	136	120699	20.000	ng	0.00
39) Acenaphthene-d10	14.488	164	87279	20.000	ng	0.00
64) Phenanthrene-d10	17.226	188	222662	20.000	ng	0.00
76) Chrysene-d12	21.462	240	230159	20.000	ng	0.00
86) Perylene-d12	24.476	264	246932	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.452	112	262956	139.976	ng	0.00
7) Phenol-d6	7.026	99	342200	133.902	ng	0.00
23) Nitrobenzene-d5	9.012	82	215185	98.522	ng	0.00
42) 2,4,6-Tribromophenol	15.975	330	146075	150.567	ng	0.00
45) 2-Fluorobiphenyl	13.113	172	541325	94.143	ng	0.00
79) Terphenyl-d14	19.852	244	1142139	100.339	ng	0.00
Target Compounds						Qvalue

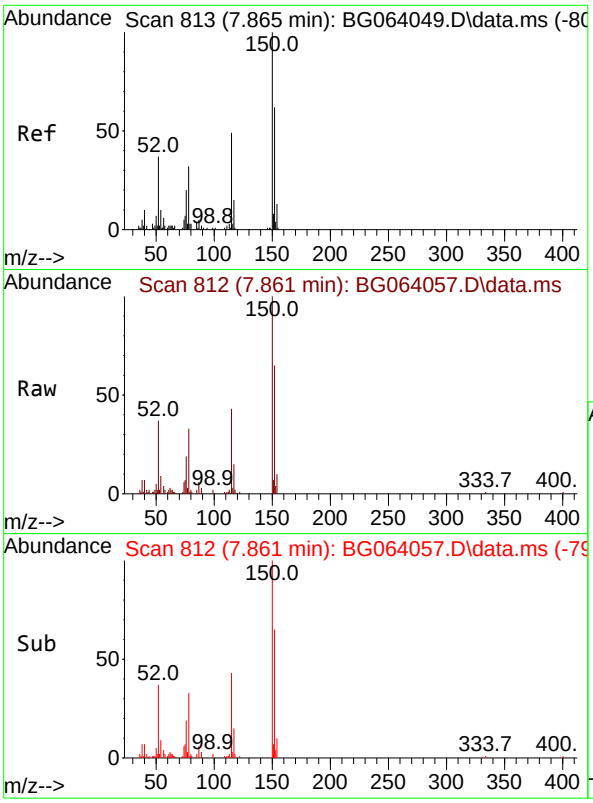
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064057.D
Acq On : 7 Mar 2025 13:37
Operator : RC/JU
Sample : PB167031BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PB167031BL

Quant Time: Mar 07 14:20:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration



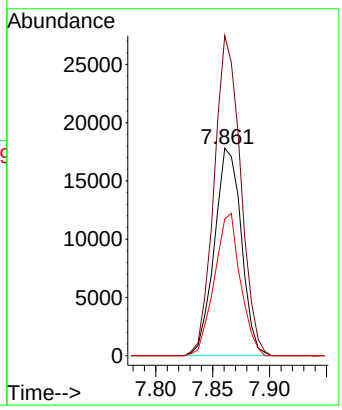


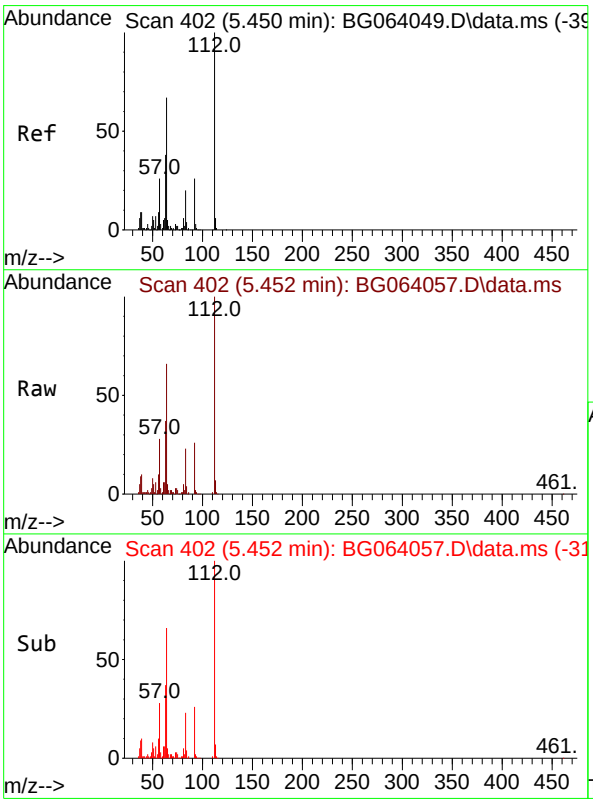
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.861 min Scan# 81
Delta R.T. -0.005 min
Lab File: BG064057.D
Acq: 7 Mar 2025 13:37

Instrument :
BNA_G
ClientSampleId :
PB167031BL

Tgt Ion:152 Resp: 29333

Ion	Ratio	Lower	Upper
152	100		
150	154.3	129.2	193.8
115	66.0	63.0	94.6

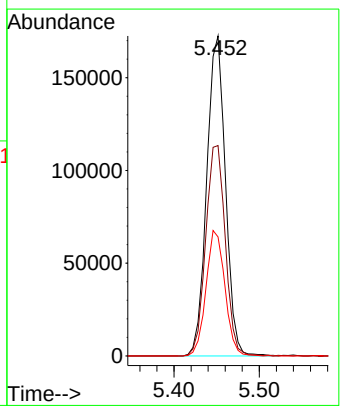


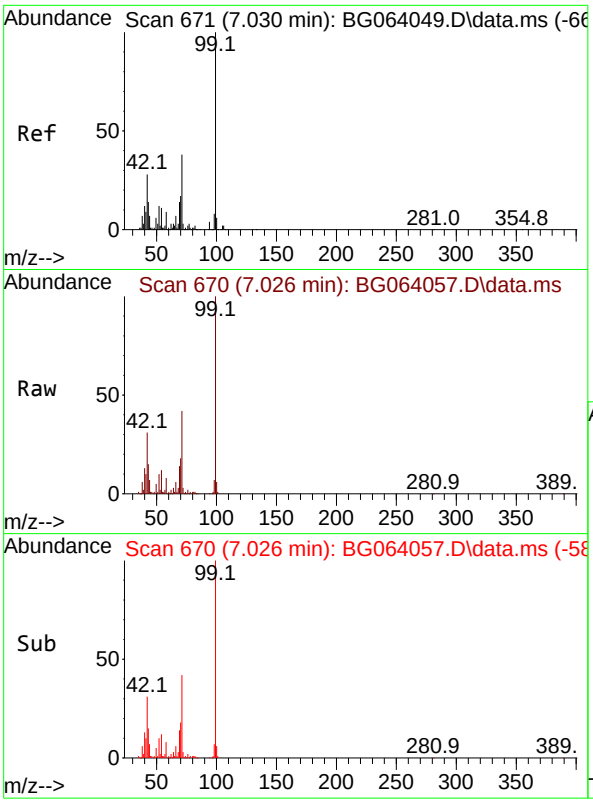


#5
2-Fluorophenol
Concen: 139.976 ng
RT: 5.452 min Scan# 402
Delta R.T. 0.002 min
Lab File: BG064057.D
Acq: 7 Mar 2025 13:37

Tgt Ion:112 Resp: 262956

Ion	Ratio	Lower	Upper
112	100		
64	65.8	53.7	80.5
63	37.2	30.2	45.4



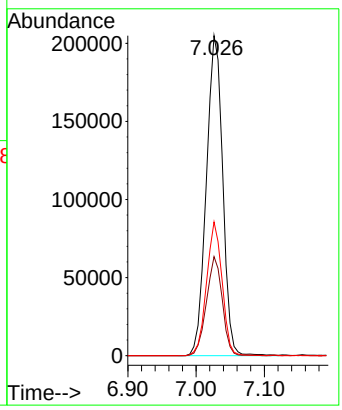


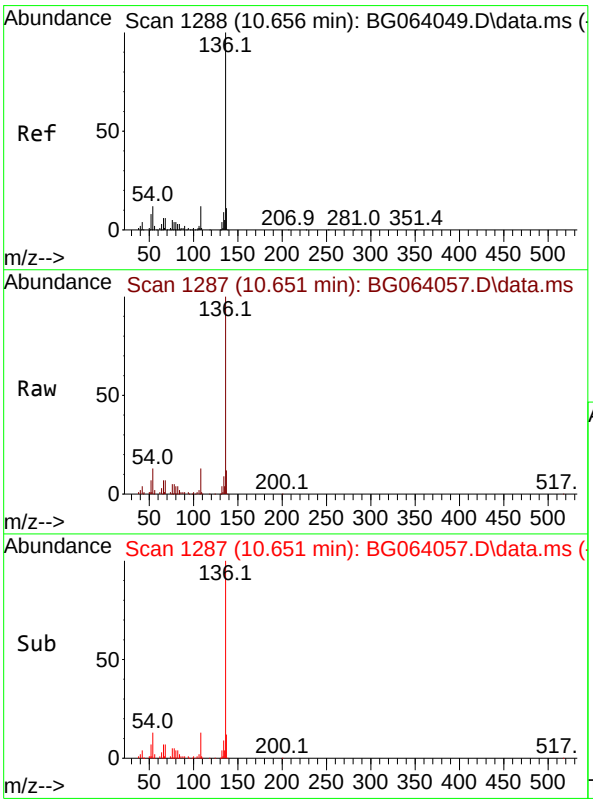
#7
Phenol-d6
Concen: 133.902 ng
RT: 7.026 min Scan# 6
Delta R.T. -0.004 min
Lab File: BG064057.D
Acq: 7 Mar 2025 13:37

Instrument :
BNA_G
ClientSampleId :
PB167031BL

Tgt Ion: 99 Resp: 342200

Ion	Ratio	Lower	Upper
99	100		
42	30.9	22.7	34.1
71	41.8	30.6	46.0

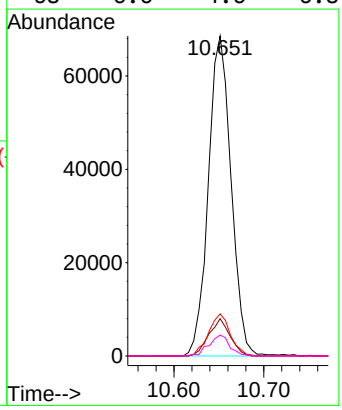


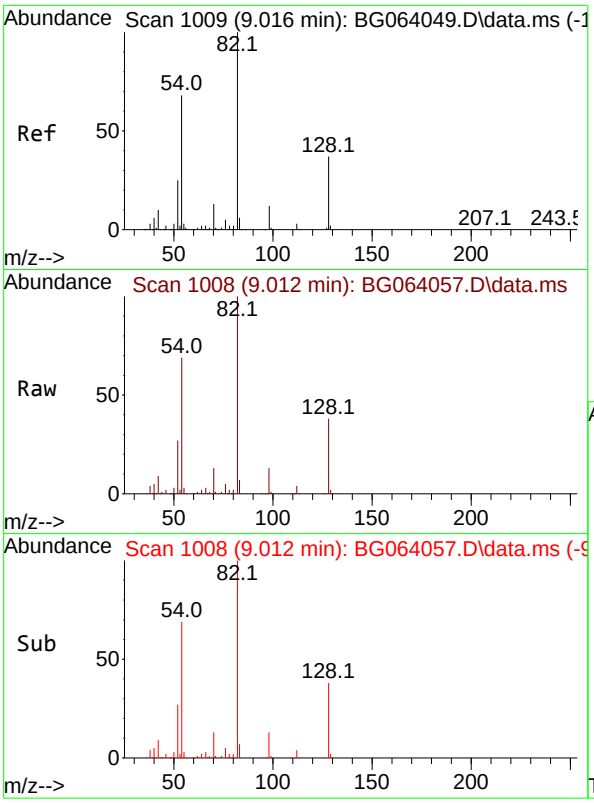


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.651 min Scan# 1287
Delta R.T. -0.005 min
Lab File: BG064057.D
Acq: 7 Mar 2025 13:37

Tgt Ion:136 Resp: 120699

Ion	Ratio	Lower	Upper
136	100		
137	11.7	8.5	12.7
54	13.2	9.9	14.9
68	6.6	4.6	6.8



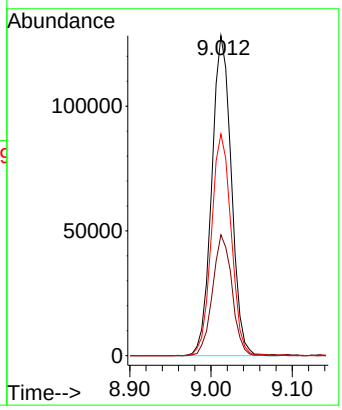


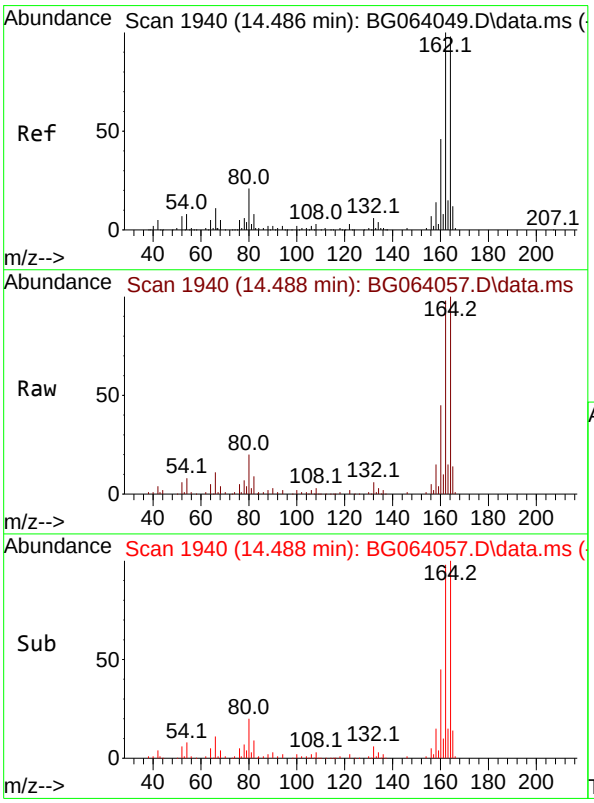
#23
Nitrobenzene-d5
Concen: 98.522 ng
RT: 9.012 min Scan# 1
Delta R.T. -0.004 min
Lab File: BG064057.D
Acq: 7 Mar 2025 13:37

Instrument :
BNA_G
ClientSampleId :
PB167031BL

Tgt Ion: 82 Resp: 215185

Ion	Ratio	Lower	Upper
82	100		
128	37.8	30.0	45.0
54	69.2	54.7	82.1

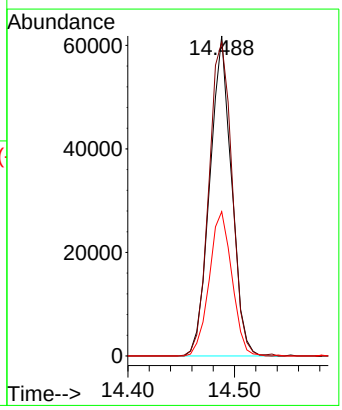




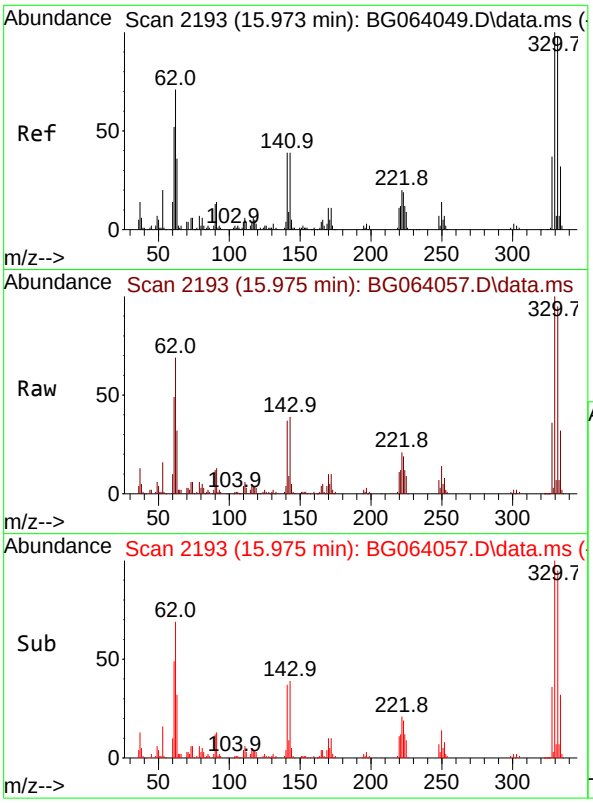
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.488 min Scan# 1940
Delta R.T. 0.002 min
Lab File: BG064057.D
Acq: 7 Mar 2025 13:37

Tgt Ion:164 Resp: 87279

Ion	Ratio	Lower	Upper
164	100		
162	98.1	81.4	122.0
160	45.1	37.0	55.6



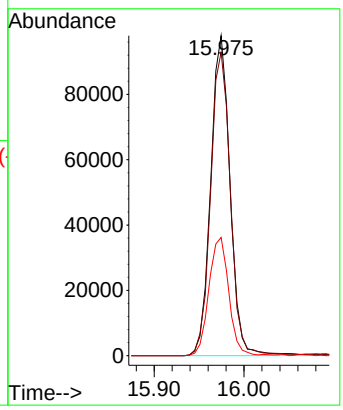
Instrument :
BNA_G
ClientSampleId :
PB167031BL

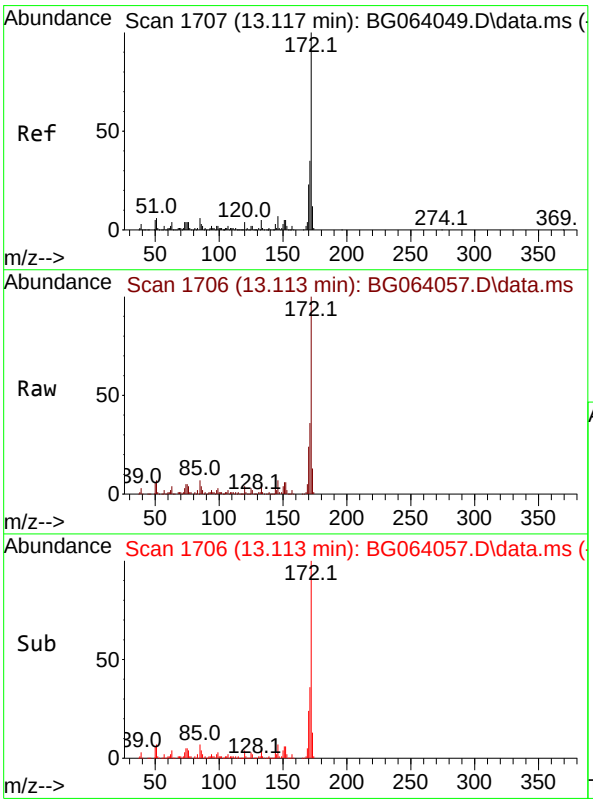


#42
2,4,6-Tribromophenol
Concen: 150.567 ng
RT: 15.975 min Scan# 21
Delta R.T. 0.002 min
Lab File: BG064057.D
Acq: 7 Mar 2025 13:37

Tgt Ion:330 Resp: 146075

Ion	Ratio	Lower	Upper
330	100		
332	97.3	76.7	115.1
141	38.3	29.7	44.5

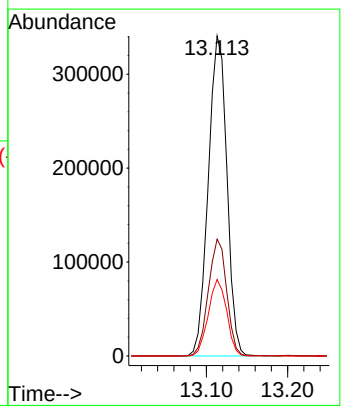


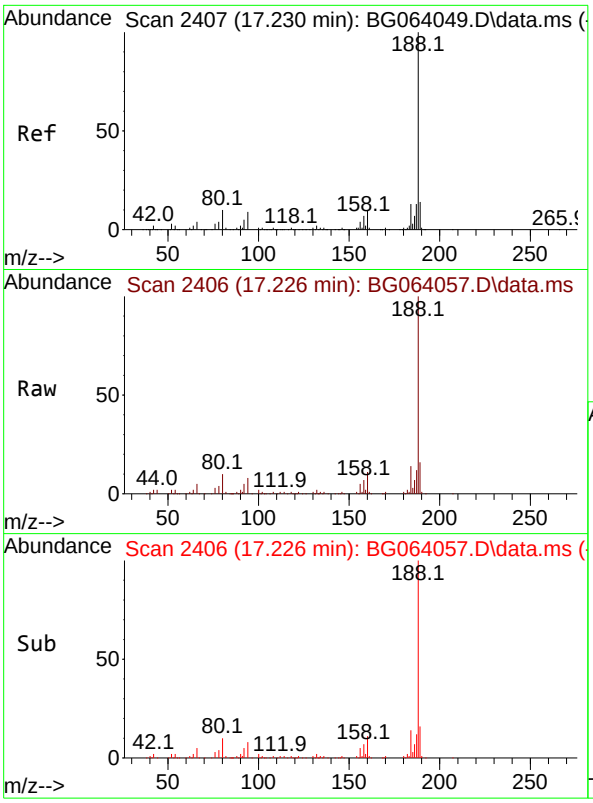


#45
2-Fluorobiphenyl
Concen: 94.143 ng
RT: 13.113 min Scan# 1706
Delta R.T. -0.004 min
Lab File: BG064057.D
Acq: 7 Mar 2025 13:37

Tgt Ion:172 Resp: 541325

Ion	Ratio	Lower	Upper
172	100		
171	36.5	28.0	42.0
170	23.9	18.7	28.1



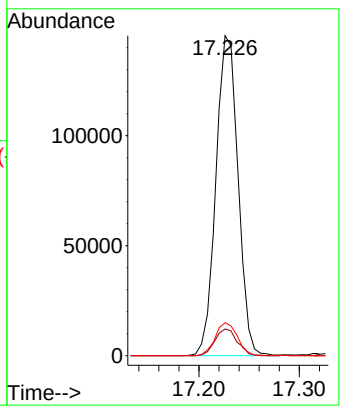


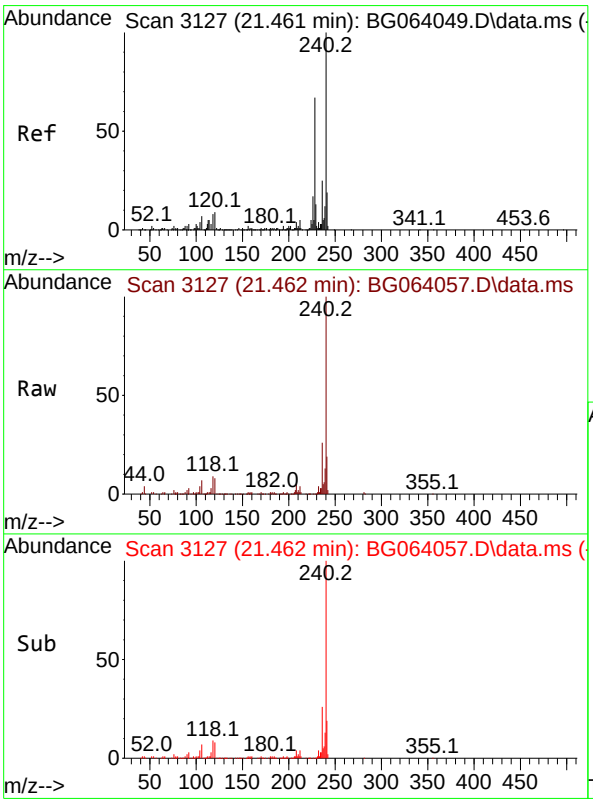
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.226 min Scan# 24
Delta R.T. -0.004 min
Lab File: BG064057.D
Acq: 7 Mar 2025 13:37

Instrument :
BNA_G
ClientSampleId :
PB167031BL

Tgt Ion:188 Resp: 222662

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.9	10.3
80	10.3	8.1	12.1

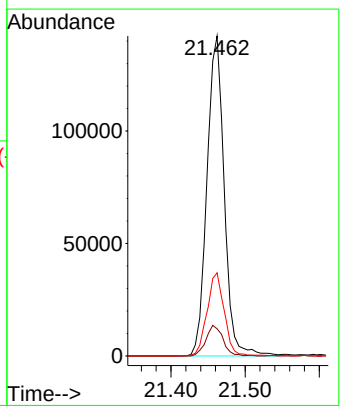


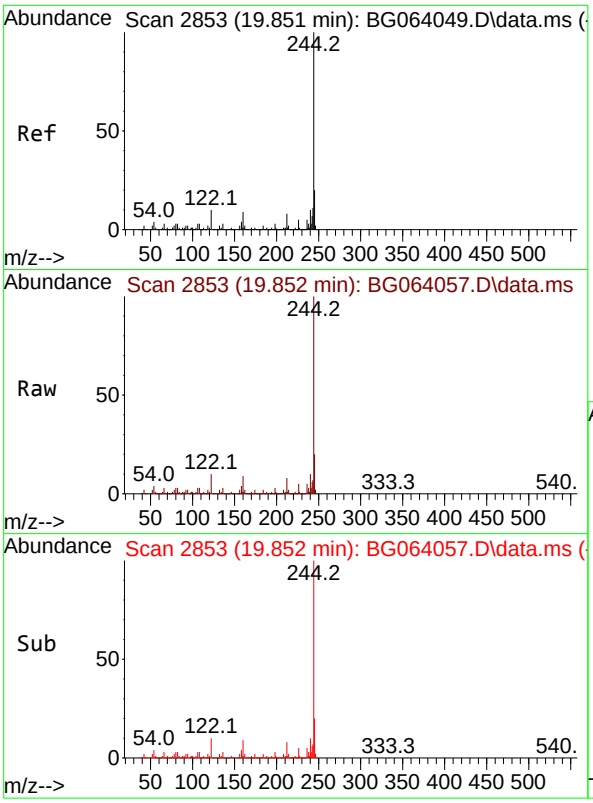


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.462 min Scan# 3127
Delta R.T. 0.002 min
Lab File: BG064057.D
Acq: 7 Mar 2025 13:37

Tgt Ion:240 Resp: 230159

Ion	Ratio	Lower	Upper
240	100		
120	8.5	7.2	10.8
236	26.0	20.2	30.2



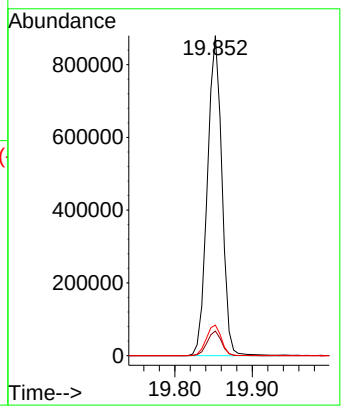


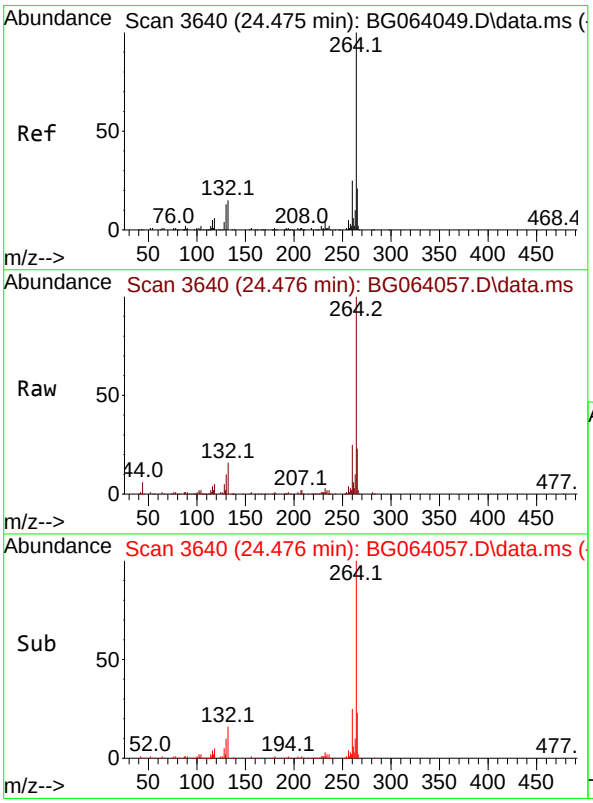
#79
Terphenyl-d14
Concen: 100.339 ng
RT: 19.852 min Scan# 2
Delta R.T. 0.002 min
Lab File: BG064057.D
Acq: 7 Mar 2025 13:37

Instrument :
BNA_G
ClientSampleId :
PB167031BL

Tgt Ion:244 Resp: 1142139

Ion	Ratio	Lower	Upper
244	100		
212	7.7	6.2	9.4
122	9.6	8.0	12.0

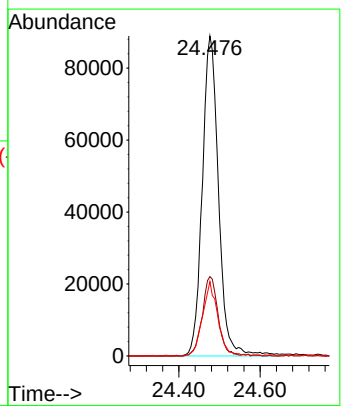




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.476 min Scan# 3640
Delta R.T. 0.002 min
Lab File: BG064057.D
Acq: 7 Mar 2025 13:37

Tgt Ion:264 Resp: 246932

Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.6	29.4
265	23.3	16.6	25.0



LSC Area Percent Report

Sample Results: **BG064057.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064057.D
Acq On : 7 Mar 2025 13:37
Operator : RC/JU
Sample : PB167031BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PB167031BL

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BG064057.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.452	395	402	411	rBV	702036	1093570	33.70%	9.104%
2	7.026	662	670	683	rBV	711558	1176998	36.27%	9.799%
3	7.861	806	812	822	rBV	119828	193557	5.97%	1.611%
4	9.012	1000	1008	1016	rBV	417700	708719	21.84%	5.900%
5	10.651	1280	1287	1294	rVB	157042	271845	8.38%	2.263%
6	13.113	1699	1706	1713	rBV	1113479	1720018	53.01%	14.319%
7	14.488	1933	1940	1948	rBV	273153	403700	12.44%	3.361%
8	15.975	2186	2193	2206	rBV	886231	1334009	41.11%	11.106%
9	17.226	2400	2406	2417	rBV2	376082	574208	17.70%	4.780%
10	19.852	2847	2853	2867	rBV	2515351	3244773	100.00%	27.013%
11	21.462	3120	3127	3133	rBV	387129	631512	19.46%	5.257%
12	24.476	3629	3640	3651	rBV	241529	659004	20.31%	5.486%

Sum of corrected areas: 12011913

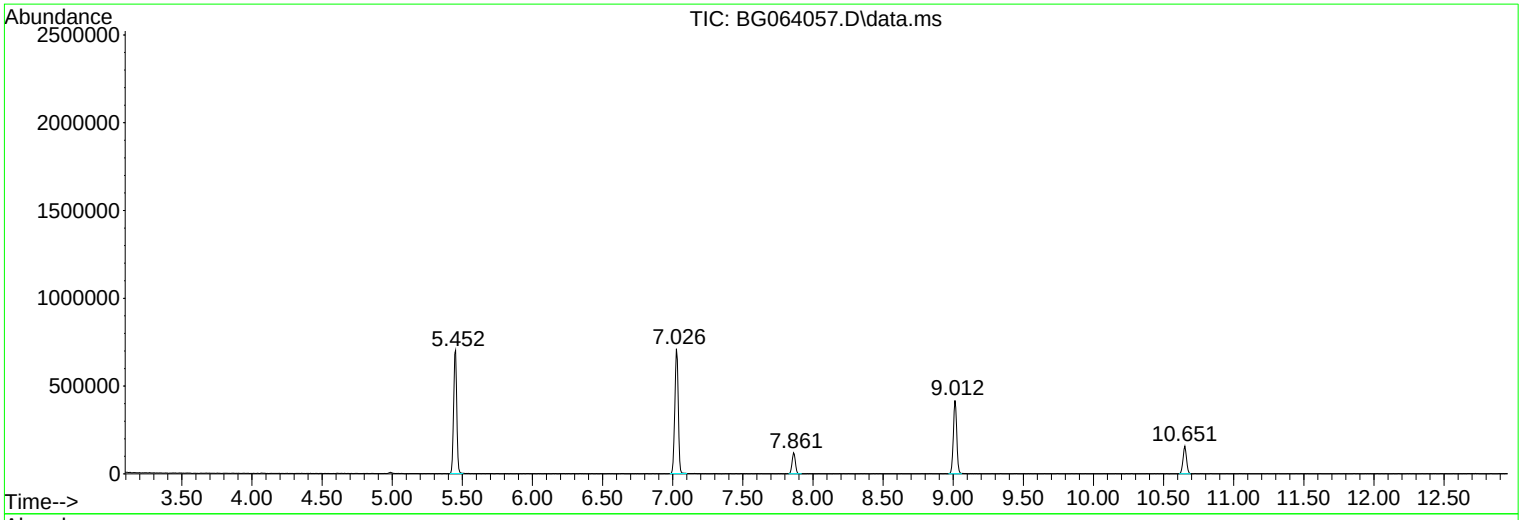
Sample Results: **BG064057.D**

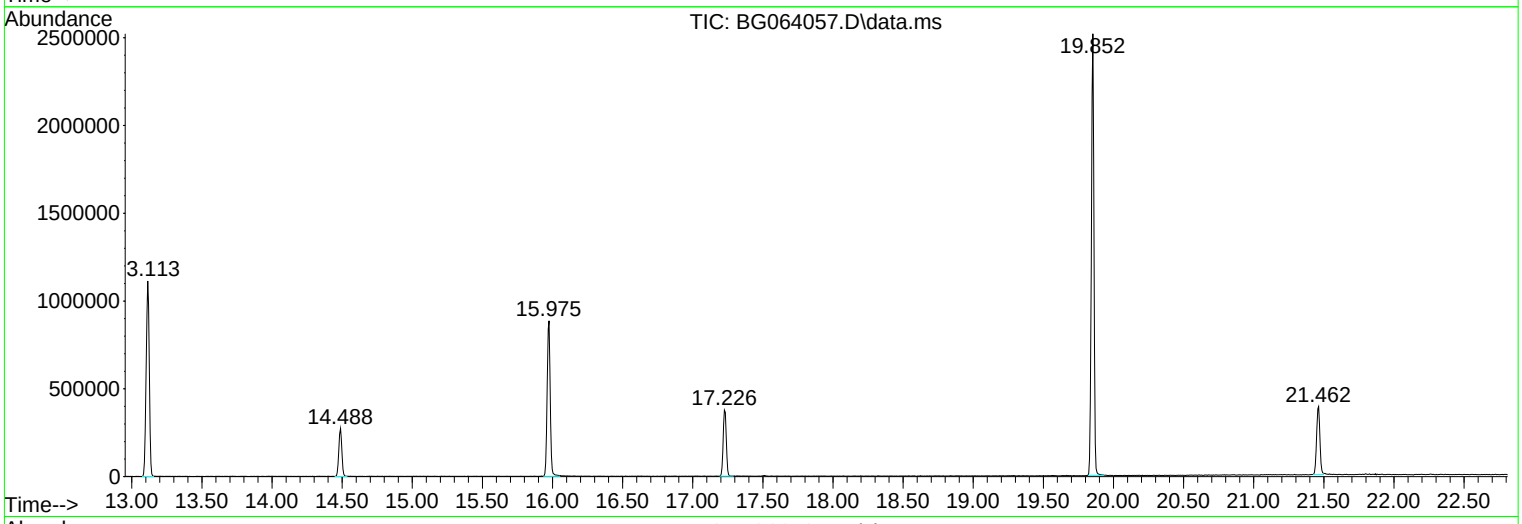
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064057.D
Acq On : 7 Mar 2025 13:37
Operator : RC/JU
Sample : PB167031BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

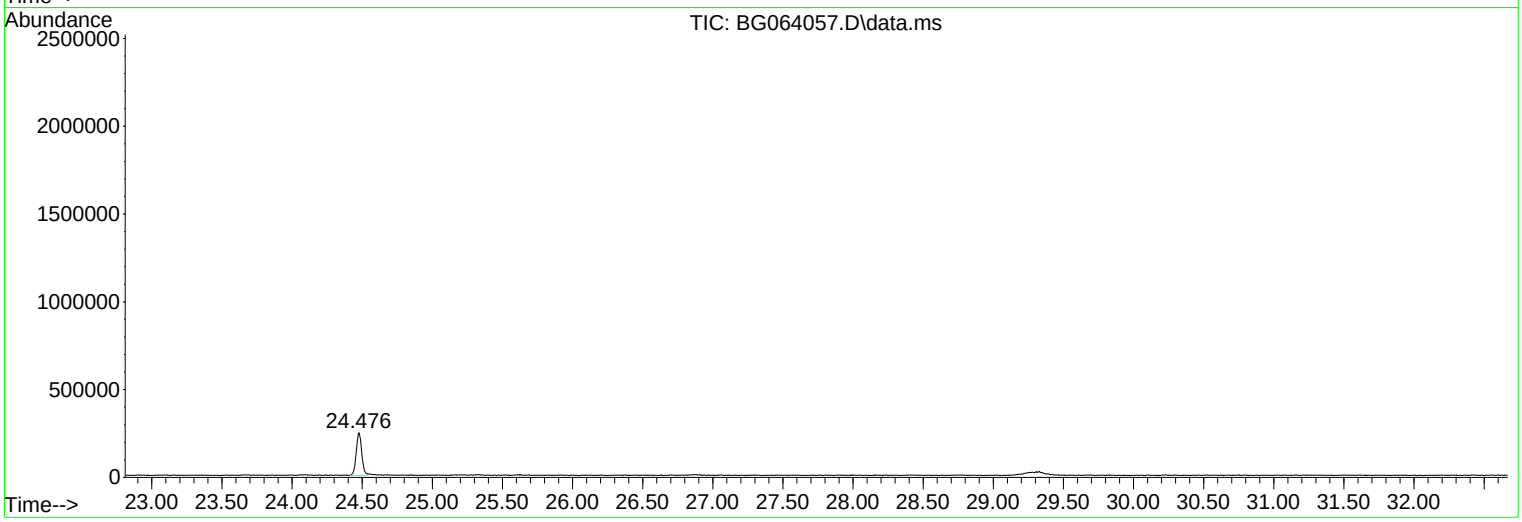
Instrument :
BNA_G
ClientSampleId :
PB167031BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P







Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064057.D
Acq On : 7 Mar 2025 13:37
Operator : RC/JU
Sample : PB167031BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PB167031BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
****

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064057.D
Acq On : 7 Mar 2025 13:37
Operator : RC/JU
Sample : PB167031BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_G
ClientSampleId :
PB167031BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064060.D
Acq On : 7 Mar 2025 15:39
Operator : RC/JU
Sample : PB167027BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 07 16:12:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
PB167027BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/10/2025
Supervised By :Jagrut Upadhyay 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.864	152	34687	20.000	ng		0.00
21) Naphthalene-d8	10.655	136	155641	20.000	ng		0.00
39) Acenaphthene-d10	14.492	164	112589	20.000	ng		0.00
64) Phenanthrene-d10	17.230	188	253745	20.000	ng		0.00
76) Chrysene-d12	21.466	240	254292	20.000	ng		0.00
86) Perylene-d12	24.480	264	275837	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.449	112	310296	139.681	ng		0.00
7) Phenol-d6	7.030	99	412819	136.602	ng		0.00
23) Nitrobenzene-d5	9.016	82	265661	94.326	ng		0.00
42) 2,4,6-Tribromophenol	15.978	330	185497	148.219	ng		0.00
45) 2-Fluorobiphenyl	13.117	172	638446	86.073	ng		0.00
79) Terphenyl-d14	19.850	244	1175577	93.476	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.363	88	38466	38.207	ng		97
3) Pyridine	3.751	79	96049	39.228	ng		98
4) n-Nitrosodimethylamine	3.669	42	78132	44.663	ng	#	95
6) Aniline	7.188	93	106497	35.913	ng		99
8) 2-Chlorophenol	7.429	128	104925	43.977	ng		98
9) Benzaldehyde	7.000	77	36958	21.027	ng		95
10) Phenol	7.059	94	141366	45.689	ng		98
11) bis(2-Chloroethyl)ether	7.288	93	95875	39.524	ng		94
12) 1,3-Dichlorobenzene	7.752	146	103971	39.683	ng		95
13) 1,4-Dichlorobenzene	7.899	146	108911	40.555	ng		98
14) 1,2-Dichlorobenzene	8.217	146	103707	40.048	ng		98
15) Benzyl Alcohol	8.099	79	105756	45.286	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.387	45	233187	42.752	ng		99
17) 2-Methylphenol	8.299	107	98070	47.757	ng		98
18) Hexachloroethane	8.945	117	39503	42.043	ng		98
19) n-Nitroso-di-n-propyla...	8.669	70	90329	42.590	ng		99
20) 3+4-Methylphenols	8.628	107	134891	47.714	ng		94
22) Acetophenone	8.681	105	194894	45.671	ng	#	97
24) Nitrobenzene	9.057	77	128238	44.058	ng		98
25) Isophorone	9.580	82	246299	43.692	ng		96
26) 2-Nitrophenol	9.768	139	42881	43.608	ng		92
27) 2,4-Dimethylphenol	9.826	122	101419	60.013	ng		93
28) bis(2-Chloroethoxy)met...	10.067	93	142441	41.677	ng		98
29) 2,4-Dichlorophenol	10.296	162	102575	48.069	ng		97
30) 1,2,4-Trichlorobenzene	10.520	180	105591	40.990	ng		99
31) Naphthalene	10.702	128	344551	41.054	ng		99
32) Benzoic acid	9.973	122	68460m	44.818	ng		
33) 4-Chloroaniline	10.808	127	55447	18.076	ng		99
34) Hexachlorobutadiene	10.996	225	71617	42.415	ng		99
35) Caprolactam	11.566	113	42467m	51.932	ng		
36) 4-Chloro-3-methylphenol	11.930	107	129710	46.372	ng		96
37) 2-Methylnaphthalene	12.312	142	242058	40.855	ng		98
38) 1-Methylnaphthalene	12.529	142	240617	41.453	ng		97
40) 1,2,4,5-Tetrachloroben...	12.682	216	143110	44.522	ng		99
41) Hexachlorocyclopentadiene	12.664	237	140946	155.796	ng		91
43) 2,4,6-Trichlorophenol	12.917	196	90615	47.832	ng		97

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064060.D
Acq On : 7 Mar 2025 15:39
Operator : RC/JU
Sample : PB167027BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 07 16:12:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
PB167027BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/10/2025
Supervised By :Jagrut Upadhyay 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.987	196	101854	48.387	ng		99
46) 1,1'-Biphenyl	13.322	154	385498	45.320	ng		99
47) 2-Chloronaphthalene	13.363	162	259667	41.856	ng		97
48) 2-Nitroaniline	13.563	65	89126	44.061	ng		98
49) Acenaphthylene	14.210	152	435964	44.428	ng		99
50) Dimethylphthalate	13.951	163	349243	42.022	ng		100
51) 2,6-Dinitrotoluene	14.063	165	71443	42.766	ng		91
52) Acenaphthene	14.556	154	276523	41.990	ng		96
53) 3-Nitroaniline	14.386	138	41117	25.598	ng		98
54) 2,4-Dinitrophenol	14.591	184	62531	88.069	ng	#	86
55) Dibenzofuran	14.891	168	426402	39.969	ng		99
56) 4-Nitrophenol	14.697	139	134644	99.947	ng		93
57) 2,4-Dinitrotoluene	14.850	165	104186	45.027	ng	#	96
58) Fluorene	15.537	166	346223	41.668	ng		100
59) 2,3,4,6-Tetrachlorophenol	15.108	232	96141m	46.850	ng		
60) Diethylphthalate	15.320	149	379847	42.100	ng		100
61) 4-Chlorophenyl-phenyle...	15.532	204	171110	41.440	ng		93
62) 4-Nitroaniline	15.555	138	77649	44.775	ng		99
63) Azobenzene	15.825	77	386892	40.185	ng		99
65) 4,6-Dinitro-2-methylph...	15.608	198	48030	44.528	ng		98
66) n-Nitrosodiphenylamine	15.749	169	312948	43.571	ng		99
67) 4-Bromophenyl-phenylether	16.425	248	113650	43.731	ng		98
68) Hexachlorobenzene	16.536	284	124776	42.886	ng		96
69) Atrazine	16.701	200	138076	65.336	ng		96
70) Pentachlorophenol	16.883	266	165396	91.557	ng		98
71) Phenanthrene	17.271	178	584770	43.207	ng		99
72) Anthracene	17.365	178	599926	44.578	ng		99
73) Carbazole	17.629	167	535441	42.613	ng		99
74) Di-n-butylphthalate	18.205	149	651127	44.024	ng		100
75) Fluoranthene	19.280	202	675567	41.404	ng		98
77) Benzidine	19.462	184	187648	53.291	ng		98
78) Pyrene	19.644	202	714233	43.572	ng		98
80) Butylbenzylphthalate	20.549	149	274108	44.823	ng		98
81) Benzo(a)anthracene	21.442	228	726148	44.579	ng		99
82) 3,3'-Dichlorobenzidine	21.366	252	152208	28.872	ng		96
83) Chrysene	21.507	228	701459	43.176	ng		99
84) Bis(2-ethylhexyl)phtha...	21.383	149	424390	48.174	ng		99
85) Di-n-octyl phthalate	22.529	149	723815	47.635	ng		99
87) Indeno(1,2,3-cd)pyrene	27.876	276	835748	45.284	ng		98
88) Benzo(b)fluoranthene	23.534	252	707242	42.412	ng		98
89) Benzo(k)fluoranthene	23.599	252	722895	43.213	ng		99
90) Benzo(a)pyrene	24.345	252	678225	45.669	ng		97
91) Dibenzo(a,h)anthracene	27.952	278	682070	44.579	ng		100
92) Benzo(g,h,i)perylene	28.945	276	653491	41.599	ng		96

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

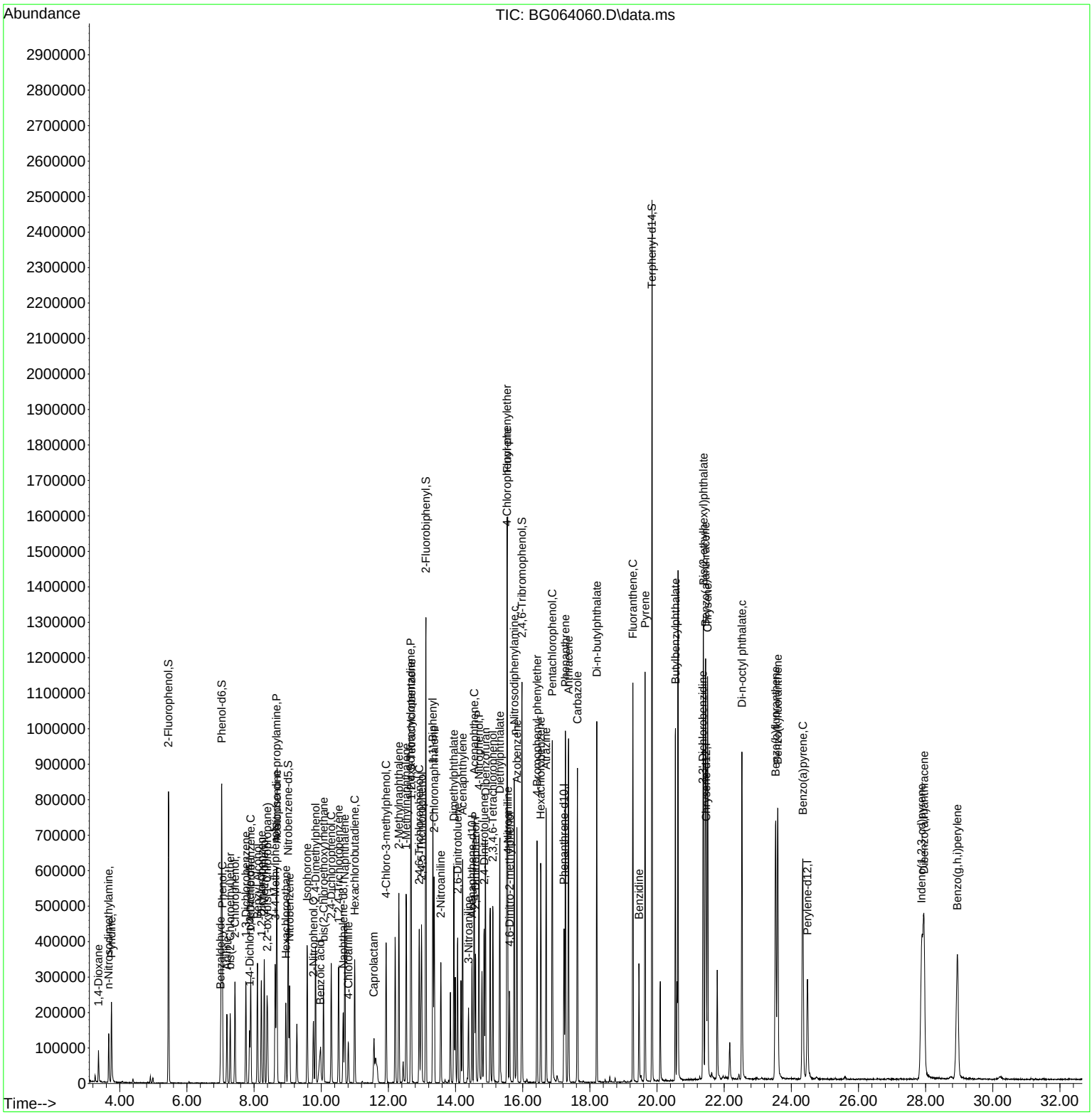
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064060.D
Acq On : 7 Mar 2025 15:39
Operator : RC/JU
Sample : PB167027BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Mar 07 16:12:51 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
PB167027BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/10/2025
Supervised By :Jagrut Upadhyay 03/10/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064058.D
Acq On : 7 Mar 2025 14:18
Operator : RC/JU
Sample : PB167031BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 07 14:57:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
PB167031BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/10/2025
Supervised By :Jagrut Upadhyay 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.864	152	37350	20.000	ng		0.00
21) Naphthalene-d8	10.655	136	167596	20.000	ng		0.00
39) Acenaphthene-d10	14.492	164	115306	20.000	ng		0.00
64) Phenanthrene-d10	17.230	188	265788	20.000	ng		0.00
76) Chrysene-d12	21.466	240	268408	20.000	ng		0.00
86) Perylene-d12	24.480	264	290005	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.455	112	314786	131.599	ng		0.00
7) Phenol-d6	7.036	99	416430	127.972	ng		0.00
23) Nitrobenzene-d5	9.016	82	264399	87.181	ng		0.00
42) 2,4,6-Tribromophenol	15.978	330	179892	140.353	ng		0.00
45) 2-Fluorobiphenyl	13.117	172	634957	83.585	ng		0.00
79) Terphenyl-d14	19.850	244	1172088	88.297	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.369	88	40790	37.627	ng		93
3) Pyridine	3.751	79	99512	37.745	ng		97
4) n-Nitrosodimethylamine	3.669	42	84558	44.890	ng		94
6) Aniline	7.194	93	115817	36.271	ng		98
8) 2-Chlorophenol	7.429	128	105909	41.225	ng		96
9) Benzaldehyde	7.006	77	37486	19.807	ng		96
10) Phenol	7.059	94	144336	43.323	ng		99
11) bis(2-Chloroethyl)ether	7.288	93	101920	39.020	ng		95
12) 1,3-Dichlorobenzene	7.758	146	109287	38.738	ng		99
13) 1,4-Dichlorobenzene	7.899	146	109982	38.034	ng		98
14) 1,2-Dichlorobenzene	8.217	146	105273	37.754	ng		97
15) Benzyl Alcohol	8.099	79	104525	41.567	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.387	45	231908	39.486	ng		98
17) 2-Methylphenol	8.299	107	98229	44.424	ng		97
18) Hexachloroethane	8.945	117	40703	40.232	ng		94
19) n-Nitroso-di-n-propyla...	8.669	70	88738	38.857	ng		98
20) 3+4-Methylphenols	8.628	107	132984	43.685	ng		97
22) Acetophenone	8.681	105	194433	42.313	ng	#	98
24) Nitrobenzene	9.057	77	128158	40.890	ng		95
25) Isophorone	9.580	82	247923	40.843	ng		96
26) 2-Nitrophenol	9.768	139	42284	40.610	ng		95
27) 2,4-Dimethylphenol	9.827	122	100614	55.290	ng		94
28) bis(2-Chloroethoxy)met...	10.068	93	141355	38.409	ng		98
29) 2,4-Dichlorophenol	10.297	162	99214	43.177	ng		97
30) 1,2,4-Trichlorobenzene	10.520	180	108054	38.954	ng		96
31) Naphthalene	10.702	128	340891	37.721	ng		99
32) Benzoic acid	9.979	122	62172m	39.159	ng		
33) 4-Chloroaniline	10.808	127	65346	19.784	ng		97
34) Hexachlorobutadiene	10.996	225	70901	38.996	ng		97
35) Caprolactam	11.578	113	42282m	48.017	ng		
36) 4-Chloro-3-methylphenol	11.930	107	124870	41.457	ng		93
37) 2-Methylnaphthalene	12.312	142	236809	37.118	ng		97
38) 1-Methylnaphthalene	12.529	142	237776	38.041	ng		95
40) 1,2,4,5-Tetrachloroben...	12.682	216	142769	43.370	ng		98
41) Hexachlorocyclopentadiene	12.670	237	134371	145.029	ng		95
43) 2,4,6-Trichlorophenol	12.917	196	86642	44.657	ng		96

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064058.D
Acq On : 7 Mar 2025 14:18
Operator : RC/JU
Sample : PB167031BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 07 14:57:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
PB167031BS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/10/2025
Supervised By :Jagrut Upadhyay 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.988	196	95182	44.152	ng		98
46) 1,1'-Biphenyl	13.323	154	383958	44.075	ng		97
47) 2-Chloronaphthalene	13.364	162	260312	40.971	ng		97
48) 2-Nitroaniline	13.563	65	88261	42.853	ng		95
49) Acenaphthylene	14.210	152	421662	41.958	ng		99
50) Dimethylphthalate	13.951	163	345559	40.599	ng		99
51) 2,6-Dinitrotoluene	14.063	165	69789	40.946	ng		97
52) Acenaphthene	14.556	154	268690	39.839	ng		97
53) 3-Nitroaniline	14.386	138	43112	26.207	ng		96
54) 2,4-Dinitrophenol	14.597	184	60678	83.859	ng		92
55) Dibenzofuran	14.891	168	416978	38.165	ng		98
56) 4-Nitrophenol	14.697	139	134556	97.528	ng		93
57) 2,4-Dinitrotoluene	14.850	165	101445	42.989	ng	#	98
58) Fluorene	15.538	166	338529	39.782	ng		95
59) 2,3,4,6-Tetrachlorophenol	15.115	232	91404	43.492	ng		96
60) Diethylphthalate	15.320	149	369537	39.992	ng		98
61) 4-Chlorophenyl-phenyle...	15.538	204	165324	39.095	ng		97
62) 4-Nitroaniline	15.555	138	77903	43.863	ng		93
63) Azobenzene	15.825	77	388690	39.420	ng		97
65) 4,6-Dinitro-2-methylph...	15.608	198	45885	41.331	ng		94
66) n-Nitrosodiphenylamine	15.749	169	304982	40.538	ng		97
67) 4-Bromophenyl-phenylether	16.425	248	108783	39.962	ng		96
68) Hexachlorobenzene	16.542	284	124061	40.708	ng		99
69) Atrazine	16.701	200	137316	62.032	ng		95
70) Pentachlorophenol	16.883	266	161432	85.314	ng		97
71) Phenanthrene	17.271	178	586440	41.367	ng		98
72) Anthracene	17.365	178	595310	42.231	ng		98
73) Carbazole	17.629	167	543876	41.324	ng		100
74) Di-n-butylphthalate	18.205	149	638316	41.202	ng		99
75) Fluoranthene	19.280	202	672893	39.371	ng		99
77) Benzidine	19.462	184	196853	52.965	ng		96
78) Pyrene	19.645	202	708955	40.975	ng		99
80) Butylbenzylphthalate	20.549	149	266926	41.635	ng		97
81) Benzo(a)anthracene	21.442	228	716446	41.670	ng		98
82) 3,3'-Dichlorobenzidine	21.366	252	150240	27.000	ng		100
83) Chrysene	21.507	228	691699	40.336	ng		99
84) Bis(2-ethylhexyl)phtha...	21.384	149	420121	45.182	ng		98
85) Di-n-octyl phthalate	22.529	149	703025	43.833	ng		99
87) Indeno(1,2,3-cd)pyrene	27.882	276	821866	42.356	ng		98
88) Benzo(b)fluoranthene	23.534	252	699323	39.889	ng		96
89) Benzo(k)fluoranthene	23.593	252	696807	39.618	ng		99
90) Benzo(a)pyrene	24.345	252	672920	43.098	ng		98
91) Dibenzo(a,h)anthracene	27.947	278	684817	42.571	ng		99
92) Benzo(g,h,i)perylene	28.951	276	638368	38.651	ng		97

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

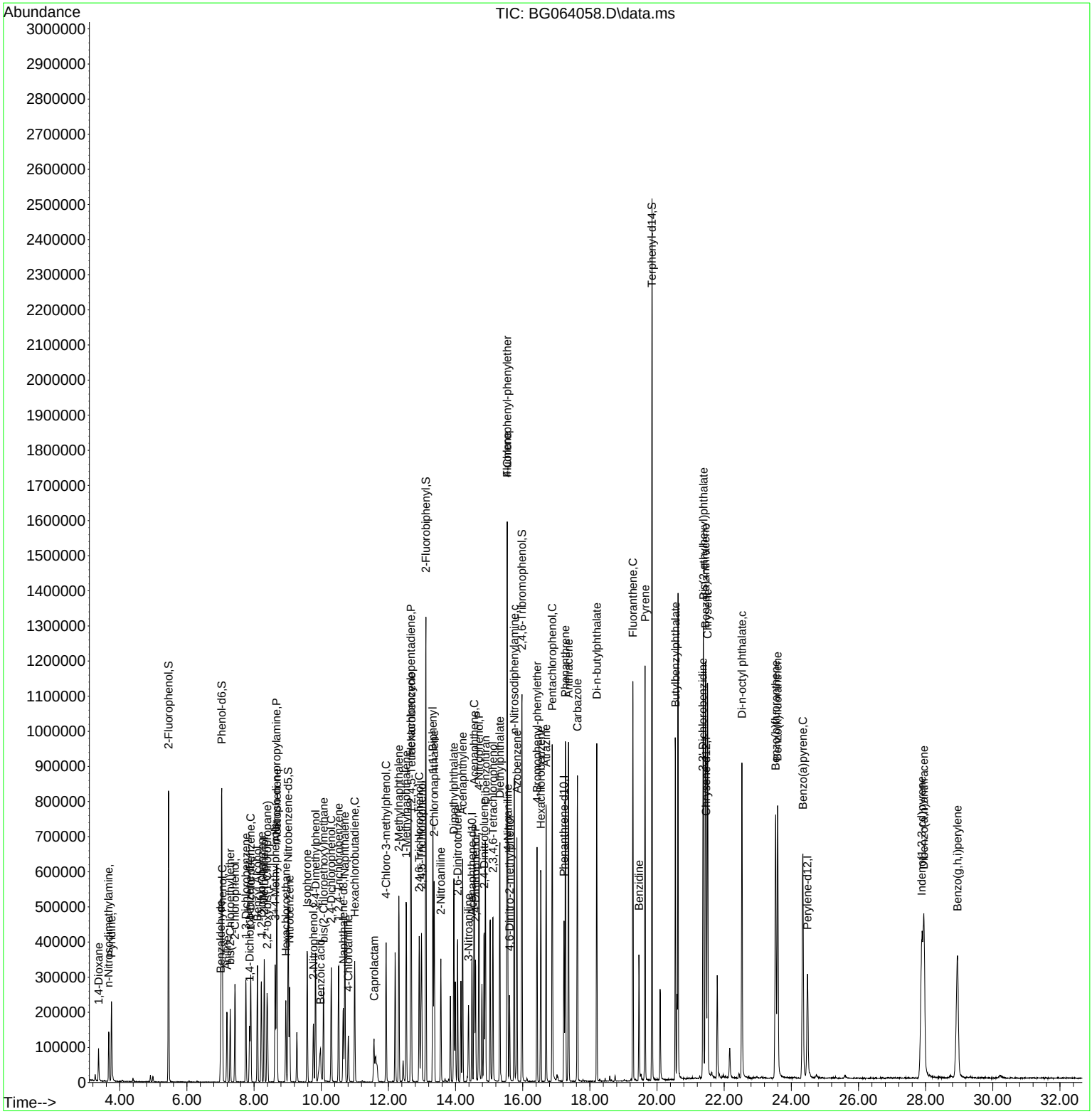
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064058.D
Acq On : 7 Mar 2025 14:18
Operator : RC/JU
Sample : PB167031BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Mar 07 14:57:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
PB167031BS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/10/2025
Supervised By :Jagrut Upadhyay 03/10/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064061.D
Acq On : 7 Mar 2025 16:19
Operator : RC/JU
Sample : PB167027BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 07 17:26:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
PB167027BSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/10/2025
Supervised By :Jagrut Upadhyay 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.864	152	35231	20.000	ng		0.00
21) Naphthalene-d8	10.655	136	161506	20.000	ng		0.00
39) Acenaphthene-d10	14.492	164	117614	20.000	ng		0.00
64) Phenanthrene-d10	17.230	188	256688	20.000	ng		0.00
76) Chrysene-d12	21.466	240	264113	20.000	ng		0.00
86) Perylene-d12	24.480	264	280712	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.450	112	291945	129.391	ng		0.00
7) Phenol-d6	7.030	99	387760	126.329	ng		0.00
23) Nitrobenzene-d5	9.016	82	254764	87.172	ng		0.00
42) 2,4,6-Tribromophenol	15.979	330	174683	133.615	ng		0.00
45) 2-Fluorobiphenyl	13.117	172	602000	77.692	ng		0.00
79) Terphenyl-d14	19.850	244	1127527	86.321	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.364	88	35907	35.115	ng	#	89
3) Pyridine	3.752	79	90275	36.301	ng		98
4) n-Nitrosodimethylamine	3.669	42	75655	42.579	ng		100
6) Aniline	7.189	93	102507	34.034	ng		96
8) 2-Chlorophenol	7.430	128	97979	40.432	ng		98
9) Benzaldehyde	7.001	77	35444m	19.855	ng		
10) Phenol	7.060	94	132900	42.289	ng		99
11) bis(2-Chloroethyl)ether	7.289	93	94750	38.457	ng		97
12) 1,3-Dichlorobenzene	7.753	146	99142	37.256	ng		93
13) 1,4-Dichlorobenzene	7.900	146	104316	38.244	ng		99
14) 1,2-Dichlorobenzene	8.217	146	100127	38.069	ng		98
15) Benzyl Alcohol	8.100	79	98704	41.613	ng		95
16) 2,2'-oxybis(1-Chloropr...	8.387	45	217931	39.338	ng		99
17) 2-Methylphenol	8.299	107	91525	43.881	ng		96
18) Hexachloroethane	8.946	117	38766	40.622	ng		96
19) n-Nitroso-di-n-propyla...	8.669	70	85882	39.868	ng		99
20) 3+4-Methylphenols	8.628	107	123954	43.168	ng		90
22) Acetophenone	8.681	105	183627	41.468	ng	#	98
24) Nitrobenzene	9.057	77	122855	40.676	ng		97
25) Isophorone	9.580	82	230084	39.333	ng	#	95
26) 2-Nitrophenol	9.768	139	42579	42.082	ng		94
27) 2,4-Dimethylphenol	9.827	122	94493	53.884	ng		93
28) bis(2-Chloroethoxy)met...	10.068	93	137219	38.691	ng		98
29) 2,4-Dichlorophenol	10.297	162	96328	43.502	ng		96
30) 1,2,4-Trichlorobenzene	10.514	180	100324	37.531	ng		97
31) Naphthalene	10.702	128	322155	36.992	ng		99
32) Benzoic acid	9.974	122	65853m	42.180	ng		
33) 4-Chloroaniline	10.802	127	55713	17.503	ng		96
34) Hexachlorobutadiene	10.996	225	67828	38.712	ng		96
35) Caprolactam	11.566	113	39547m	46.605	ng		
36) 4-Chloro-3-methylphenol	11.930	107	121632	41.905	ng		98
37) 2-Methylnaphthalene	12.312	142	229982	37.407	ng		98
38) 1-Methylnaphthalene	12.530	142	223407	37.090	ng		100
40) 1,2,4,5-Tetrachloroben...	12.682	216	132377	39.424	ng		96
41) Hexachlorocyclopentadiene	12.665	237	134524	142.345	ng		98
43) 2,4,6-Trichlorophenol	12.917	196	81593	41.230	ng		97

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064061.D
Acq On : 7 Mar 2025 16:19
Operator : RC/JU
Sample : PB167027BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 07 17:26:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
PB167027BSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/10/2025
Supervised By :Jagrut Upadhyay 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.988	196	93603	42.568	ng		99
46) 1,1'-Biphenyl	13.323	154	358704	40.368	ng		97
47) 2-Chloronaphthalene	13.364	162	241031	37.192	ng		97
48) 2-Nitroaniline	13.558	65	89341	42.583	ng		89
49) Acenaphthylene	14.210	152	407385	39.742	ng		99
50) Dimethylphthalate	13.951	163	330759	38.097	ng		99
51) 2,6-Dinitrotoluene	14.063	165	66930	38.699	ng		99
52) Acenaphthene	14.551	154	255264	37.106	ng		98
53) 3-Nitroaniline	14.380	138	38045	22.673	ng		95
54) 2,4-Dinitrophenol	14.592	184	63607	85.963	ng		87
55) Dibenzofuran	14.892	168	400242	35.914	ng		99
56) 4-Nitrophenol	14.698	139	127240	90.416	ng		93
57) 2,4-Dinitrotoluene	14.850	165	99044	41.304	ng	#	97
58) Fluorene	15.538	166	326324	37.595	ng		98
59) 2,3,4,6-Tetrachlorophenol	15.115	232	91312	42.595	ng		97
60) Diethylphthalate	15.315	149	353540	37.510	ng		99
61) 4-Chlorophenyl-phenyle...	15.532	204	158955	36.852	ng		93
62) 4-Nitroaniline	15.550	138	70860	39.114	ng		94
63) Azobenzene	15.826	77	367923	36.582	ng		99
65) 4,6-Dinitro-2-methylph...	15.608	198	45348	42.105	ng		94
66) n-Nitrosodiphenylamine	15.749	169	295503	40.670	ng		100
67) 4-Bromophenyl-phenylether	16.425	248	106146	40.376	ng		99
68) Hexachlorobenzene	16.537	284	119277	40.526	ng		99
69) Atrazine	16.695	200	129393	60.525	ng		96
70) Pentachlorophenol	16.883	266	151745	83.037	ng		96
71) Phenanthrene	17.271	178	548919	40.093	ng		99
72) Anthracene	17.365	178	559114	41.069	ng		97
73) Carbazole	17.630	167	511373	40.231	ng		99
74) Di-n-butylphthalate	18.205	149	616679	41.217	ng		99
75) Fluoranthene	19.281	202	636646	38.571	ng		98
77) Benzidine	19.463	184	192016	52.503	ng		99
78) Pyrene	19.645	202	676122	39.713	ng		99
80) Butylbenzylphthalate	20.550	149	261414	41.455	ng		97
81) Benzo(a)anthracene	21.443	228	680233	40.207	ng		99
82) 3,3'-Dichlorobenzidine	21.366	252	145661	26.603	ng		95
83) Chrysene	21.507	228	657283	38.953	ng		99
84) Bis(2-ethylhexyl)phtha...	21.384	149	402756	44.018	ng		99
85) Di-n-octyl phthalate	22.530	149	684476	43.371	ng		98
87) Indeno(1,2,3-cd)pyrene	27.882	276	790393	42.083	ng		99
88) Benzo(b)fluoranthene	23.534	252	663953	39.125	ng		98
89) Benzo(k)fluoranthene	23.599	252	674074	39.594	ng		99
90) Benzo(a)pyrene	24.339	252	628853	41.609	ng		96
91) Dibenzo(a,h)anthracene	27.947	278	655992	42.130	ng		98
92) Benzo(g,h,i)perylene	28.946	276	610652	38.197	ng		96

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

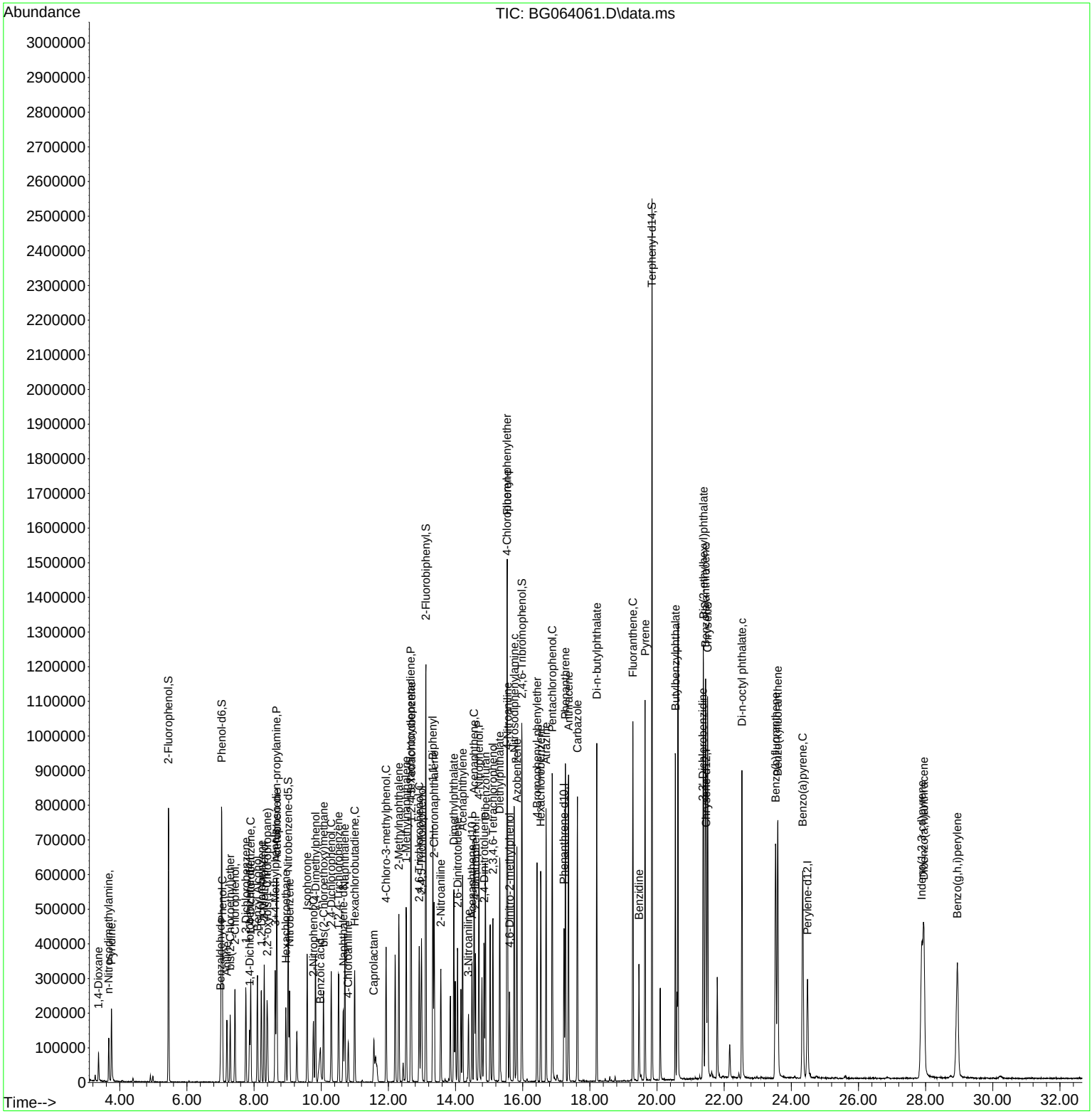
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064061.D
Acq On : 7 Mar 2025 16:19
Operator : RC/JU
Sample : PB167027BSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Mar 07 17:26:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
PB167027BSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/10/2025
Supervised By :Jagrut Upadhyay 03/10/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064066.D
Acq On : 7 Mar 2025 19:42
Operator : RC/JU
Sample : Q1514-03MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 07 22:57:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
ENV-105-SB02MS

Manual Integrations APPROVED
Reviewed By :Anahy Claudio 03/10/2025
Supervised By :Jagrut Upadhyay 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.867	152	33566	20.000	ng		0.00
21) Naphthalene-d8	10.652	136	156638	20.000	ng		0.00
39) Acenaphthene-d10	14.488	164	110984	20.000	ng		0.00
64) Phenanthrene-d10	17.232	188	250922	20.000	ng		0.00
76) Chrysene-d12	21.462	240	258735	20.000	ng		0.00
86) Perylene-d12	24.477	264	281256	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.452	112	206469	96.047	ng		0.00
7) Phenol-d6	7.032	99	276848	94.669	ng		0.00
23) Nitrobenzene-d5	9.012	82	173112	61.074	ng		0.00
42) 2,4,6-Tribromophenol	15.975	330	122716	99.473	ng		0.00
45) 2-Fluorobiphenyl	13.113	172	415113	56.773	ng		0.00
79) Terphenyl-d14	19.853	244	706569	55.218	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.366	88	40768	41.846	ng		93
3) Pyridine	3.754	79	98855	41.722	ng		97
4) n-Nitrosodimethylamine	3.672	42	81254	47.999	ng		95
6) Aniline	7.191	93	72249	25.177	ng		98
8) 2-Chlorophenol	7.432	128	102595	44.437	ng		98
9) Benzaldehyde	7.003	77	34444	20.252	ng		91
10) Phenol	7.056	94	144263	48.182	ng		99
11) bis(2-Chloroethyl)ether	7.291	93	93270	39.734	ng		98
12) 1,3-Dichlorobenzene	7.755	146	102943	40.603	ng		97
13) 1,4-Dichlorobenzene	7.902	146	103840	39.958	ng		99
14) 1,2-Dichlorobenzene	8.213	146	102804	41.025	ng		98
15) Benzyl Alcohol	8.096	79	107085	47.386	ng		91
16) 2,2'-oxybis(1-Chloropr...	8.390	45	226458	42.905	ng		99
17) 2-Methylphenol	8.301	107	94963	47.788	ng		98
18) Hexachloroethane	8.942	117	40682	44.744	ng		98
19) n-Nitroso-di-n-propyla...	8.666	70	86490	42.142	ng		99
20) 3+4-Methylphenols	8.625	107	129042	47.169	ng		96
22) Acetophenone	8.677	105	188992	44.006	ng		97
24) Nitrobenzene	9.053	77	124896	42.637	ng		99
25) Isophorone	9.582	82	243737	42.962	ng		96
26) 2-Nitrophenol	9.764	139	45272	45.328	ng	#	94
27) 2,4-Dimethylphenol	9.829	122	99924	58.752	ng		94
28) bis(2-Chloroethoxy)met...	10.064	93	142280	41.365	ng		94
29) 2,4-Dichlorophenol	10.299	162	99803	46.472	ng		97
30) 1,2,4-Trichlorobenzene	10.516	180	103202	39.808	ng		98
31) Naphthalene	10.704	128	339336	40.175	ng		98
32) Benzoic acid	9.982	122	68153m	44.427	ng		
33) 4-Chloroaniline	10.804	127	32553	10.545	ng		96
34) Hexachlorobutadiene	10.992	225	69808	41.081	ng		94
35) Caprolactam	11.568	113	40944m	49.751	ng		
36) 4-Chloro-3-methylphenol	11.932	107	127938	45.447	ng		99
37) 2-Methylnaphthalene	12.308	142	237269	39.792	ng		98
38) 1-Methylnaphthalene	12.532	142	238794	40.877	ng		97
40) 1,2,4,5-Tetrachloroben...	12.679	216	140623	44.381	ng		97
41) Hexachlorocyclopentadiene	12.667	237	150670	168.953	ng		98
43) 2,4,6-Trichlorophenol	12.920	196	88001	47.124	ng		94

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064066.D
Acq On : 7 Mar 2025 19:42
Operator : RC/JU
Sample : Q1514-03MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 07 22:57:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
ENV-105-SB02MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/10/2025
Supervised By :Jagrut Upadhyay 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.984	196	96973	46.735	ng		98
46) 1,1'-Biphenyl	13.325	154	378352	45.123	ng		98
47) 2-Chloronaphthalene	13.360	162	254994	41.697	ng		98
48) 2-Nitroaniline	13.560	65	87730	44.009	ng		97
49) Acenaphthylene	14.212	152	423207	43.752	ng		99
50) Dimethylphthalate	13.954	163	339425	41.431	ng		98
51) 2,6-Dinitrotoluene	14.059	165	69089	42.018	ng	#	88
52) Acenaphthene	14.553	154	266856	41.108	ng		99
53) 3-Nitroaniline	14.388	138	30201	19.074	ng		92
54) 2,4-Dinitrophenol	14.594	184	65137	92.618	ng	#	83
55) Dibenzofuran	14.888	168	419223	39.864	ng		100
56) 4-Nitrophenol	14.700	139	135237	101.839	ng		93
57) 2,4-Dinitrotoluene	14.847	165	102071	44.773	ng	#	92
58) Fluorene	15.534	166	344428	42.051	ng		99
59) 2,3,4,6-Tetrachlorophenol	15.111	232	93019	45.984	ng		97
60) Diethylphthalate	15.317	149	365567	41.103	ng		99
61) 4-Chlorophenyl-phenyle...	15.534	204	168550	41.410	ng		93
62) 4-Nitroaniline	15.552	138	74889	43.808	ng		93
63) Azobenzene	15.822	77	412893	43.506	ng		98
65) 4,6-Dinitro-2-methylph...	15.610	198	50174	46.578	ng		90
66) n-Nitrosodiphenylamine	15.746	169	304696	42.899	ng		97
67) 4-Bromophenyl-phenylether	16.427	248	111198	43.269	ng		97
68) Hexachlorobenzene	16.539	284	120255	41.797	ng		97
69) Atrazine	16.697	200	134559	64.388	ng		97
70) Pentachlorophenol	16.880	266	165854	92.844	ng		98
71) Phenanthrene	17.273	178	572145	42.750	ng		99
72) Anthracene	17.361	178	584769	43.941	ng		99
73) Carbazole	17.632	167	523997	42.172	ng		99
74) Di-n-butylphthalate	18.202	149	646327	44.191	ng		100
75) Fluoranthene	19.283	202	675973	41.895	ng		99
77) Benzidine	19.465	184	256098	71.481	ng		99
78) Pyrene	19.641	202	709058	42.513	ng		99
80) Butylbenzylphthalate	20.546	149	284887	45.708	ng		99
81) Benzo(a)anthracene	21.445	228	714459	43.108	ng		98
82) 3,3'-Dichlorobenzidine	21.368	252	106430	19.842	ng		97
83) Chrysene	21.509	228	681295	41.215	ng		99
84) Bis(2-ethylhexyl)phtha...	21.380	149	433115	48.320	ng		99
85) Di-n-octyl phthalate	22.532	149	735976	47.604	ng		100
87) Indeno(1,2,3-cd)pyrene	27.884	276	838700	44.568	ng		99
88) Benzo(b)fluoranthene	23.531	252	709715	41.741	ng		98
89) Benzo(k)fluoranthene	23.595	252	694033	40.688	ng		99
90) Benzo(a)pyrene	24.341	252	672829	44.433	ng		97
91) Dibenzo(a,h)anthracene	27.949	278	689445	44.192	ng		99
92) Benzo(g,h,i)perylene	28.948	276	652760	40.752	ng		98

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

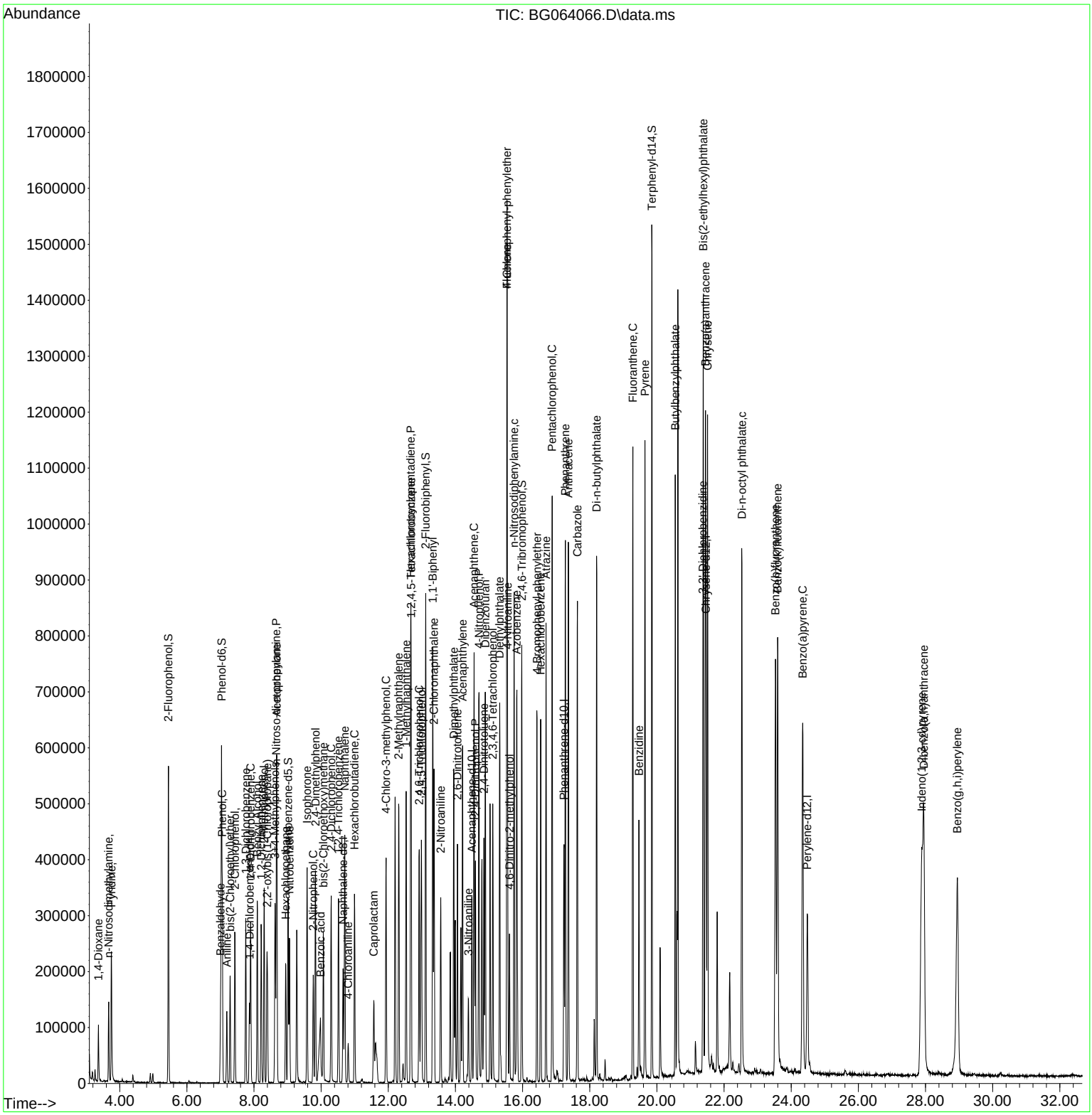
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064066.D
Acq On : 7 Mar 2025 19:42
Operator : RC/JU
Sample : Q1514-03MS
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Mar 07 22:57:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
ENV-105-SB02MS

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/10/2025
Supervised By :Jagrut Upadhyay 03/10/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064067.D
Acq On : 7 Mar 2025 20:22
Operator : RC/JU
Sample : Q1514-03MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 07 22:57:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
ENV-105-SB02MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/10/2025
Supervised By :Jagrut Upadhyay 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.864	152	34411	20.000	ng		# 0.00
21) Naphthalene-d8	10.649	136	153312	20.000	ng		0.00
39) Acenaphthene-d10	14.492	164	112515	20.000	ng		0.00
64) Phenanthrene-d10	17.230	188	255500	20.000	ng		0.00
76) Chrysene-d12	21.466	240	257819	20.000	ng		0.00
86) Perylene-d12	24.480	264	278096	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.449	112	201238	91.314	ng		0.00
7) Phenol-d6	7.030	99	272596	90.926	ng		0.00
23) Nitrobenzene-d5	9.016	82	173515	62.544	ng		0.00
42) 2,4,6-Tribromophenol	15.978	330	127687	102.094	ng		0.00
45) 2-Fluorobiphenyl	13.111	172	418318	56.433	ng		0.00
79) Terphenyl-d14	19.850	244	712984	55.917	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.364	88	40262	40.312	ng		94
3) Pyridine	3.751	79	95917	39.488	ng		97
4) n-Nitrosodimethylamine	3.669	42	78998	45.520	ng		93
6) Aniline	7.189	93	72408	24.613	ng		98
8) 2-Chlorophenol	7.430	128	102971	43.505	ng		99
9) Benzaldehyde	7.001	77	35156	20.163	ng		98
10) Phenol	7.053	94	138389	45.085	ng		96
11) bis(2-Chloroethyl)ether	7.289	93	92519	38.446	ng		99
12) 1,3-Dichlorobenzene	7.753	146	98477	37.888	ng		96
13) 1,4-Dichlorobenzene	7.900	146	101185	37.981	ng		93
14) 1,2-Dichlorobenzene	8.217	146	100188	39.000	ng		96
15) Benzyl Alcohol	8.099	79	103403	44.633	ng		91
16) 2,2'-oxybis(1-Chloropr...	8.387	45	219491	40.564	ng		98
17) 2-Methylphenol	8.305	107	93302	45.799	ng		97
18) Hexachloroethane	8.945	117	40053	42.970	ng		95
19) n-Nitroso-di-n-propyla...	8.663	70	87269	41.477	ng		99
20) 3+4-Methylphenols	8.628	107	128180	45.704	ng		93
22) Acetophenone	8.681	105	183133	43.567	ng	#	98
24) Nitrobenzene	9.057	77	125094	43.631	ng		99
25) Isophorone	9.580	82	241168	43.431	ng		97
26) 2-Nitrophenol	9.768	139	47450	47.899	ng		94
27) 2,4-Dimethylphenol	9.827	122	95972	57.653	ng		92
28) bis(2-Chloroethoxy)met...	10.068	93	139576	41.460	ng	#	97
29) 2,4-Dichlorophenol	10.297	162	100242	47.689	ng		95
30) 1,2,4-Trichlorobenzene	10.514	180	104985	41.374	ng		96
31) Naphthalene	10.702	128	334948	40.516	ng		99
32) Benzoic acid	9.974	122	74121m	48.400	ng		
33) 4-Chloroaniline	10.802	127	35030	11.593	ng		96
34) Hexachlorobutadiene	10.996	225	68725	41.321	ng		98
35) Caprolactam	11.572	113	40909m	50.786	ng		
36) 4-Chloro-3-methylphenol	11.930	107	129850	47.127	ng		96
37) 2-Methylnaphthalene	12.312	142	239353	41.012	ng		99
38) 1-Methylnaphthalene	12.529	142	235268	41.147	ng		100
40) 1,2,4,5-Tetrachloroben...	12.682	216	140504	43.740	ng		98
41) Hexachlorocyclopentadiene	12.665	237	145176	160.578	ng		99
43) 2,4,6-Trichlorophenol	12.917	196	90199	47.644	ng		89

Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064067.D
Acq On : 7 Mar 2025 20:22
Operator : RC/JU
Sample : Q1514-03MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 07 22:57:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
ENV-105-SB02MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/10/2025
Supervised By :Jagrut Upadhyay 03/10/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.988	196	99847	47.465	ng		97
46) 1,1'-Biphenyl	13.323	154	379286	44.619	ng		99
47) 2-Chloronaphthalene	13.364	162	252080	40.660	ng		98
48) 2-Nitroaniline	13.564	65	93209	45.748	ng		97
49) Acenaphthylene	14.210	152	431162	43.968	ng		99
50) Dimethylphthalate	13.951	163	342782	41.271	ng		98
51) 2,6-Dinitrotoluene	14.057	165	69573	41.759	ng		92
52) Acenaphthene	14.556	154	274782	41.753	ng		98
53) 3-Nitroaniline	14.386	138	33087	20.612	ng		93
54) 2,4-Dinitrophenol	14.592	184	70749	98.667	ng		85
55) Dibenzofuran	14.891	168	425986	39.956	ng		97
56) 4-Nitrophenol	14.697	139	137375	102.041	ng		90
57) 2,4-Dinitrotoluene	14.850	165	106088	45.810	ng		99
58) Fluorene	15.538	166	348722	41.996	ng		98
59) 2,3,4,6-Tetrachlorophenol	15.109	232	96761	47.183	ng		97
60) Diethylphthalate	15.314	149	370839	41.129	ng		99
61) 4-Chlorophenyl-phenyle...	15.532	204	168172	40.755	ng		92
62) 4-Nitroaniline	15.549	138	75161	43.369	ng		96
63) Azobenzene	15.826	77	422978	43.962	ng		98
65) 4,6-Dinitro-2-methylph...	15.608	198	50514	46.146	ng		95
66) n-Nitrosodiphenylamine	15.743	169	308325	42.632	ng		99
67) 4-Bromophenyl-phenylether	16.425	248	113153	43.241	ng		94
68) Hexachlorobenzene	16.537	284	123360	42.108	ng		97
69) Atrazine	16.695	200	135483	63.668	ng		93
70) Pentachlorophenol	16.877	266	167008	91.815	ng		96
71) Phenanthrene	17.271	178	590686	43.344	ng		98
72) Anthracene	17.365	178	591592	43.657	ng		98
73) Carbazole	17.629	167	533785	42.190	ng		99
74) Di-n-butylphthalate	18.205	149	653880	43.906	ng		99
75) Fluoranthene	19.280	202	687578	41.851	ng		99
77) Benzidine	19.462	184	240885	67.474	ng		98
78) Pyrene	19.645	202	716988	43.141	ng		99
80) Butylbenzylphthalate	20.544	149	288496	46.392	ng		99
81) Benzo(a)anthracene	21.442	228	710986	43.051	ng		99
82) 3,3'-Dichlorobenzidine	21.366	252	108561	20.311	ng		99
83) Chrysene	21.507	228	680629	41.321	ng		99
84) Bis(2-ethylhexyl)phtha...	21.384	149	436698	48.893	ng		100
85) Di-n-octyl phthalate	22.529	149	744329	48.315	ng		100
87) Indeno(1,2,3-cd)pyrene	27.888	276	828228	44.512	ng	#	93
88) Benzo(b)fluoranthene	23.534	252	694923	41.335	ng		98
89) Benzo(k)fluoranthene	23.593	252	696746	41.311	ng		99
90) Benzo(a)pyrene	24.339	252	661351	44.171	ng		97
91) Dibenzo(a,h)anthracene	27.947	278	673345	43.651	ng		98
92) Benzo(g,h,i)perylene	28.945	276	639032	40.349	ng		98

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

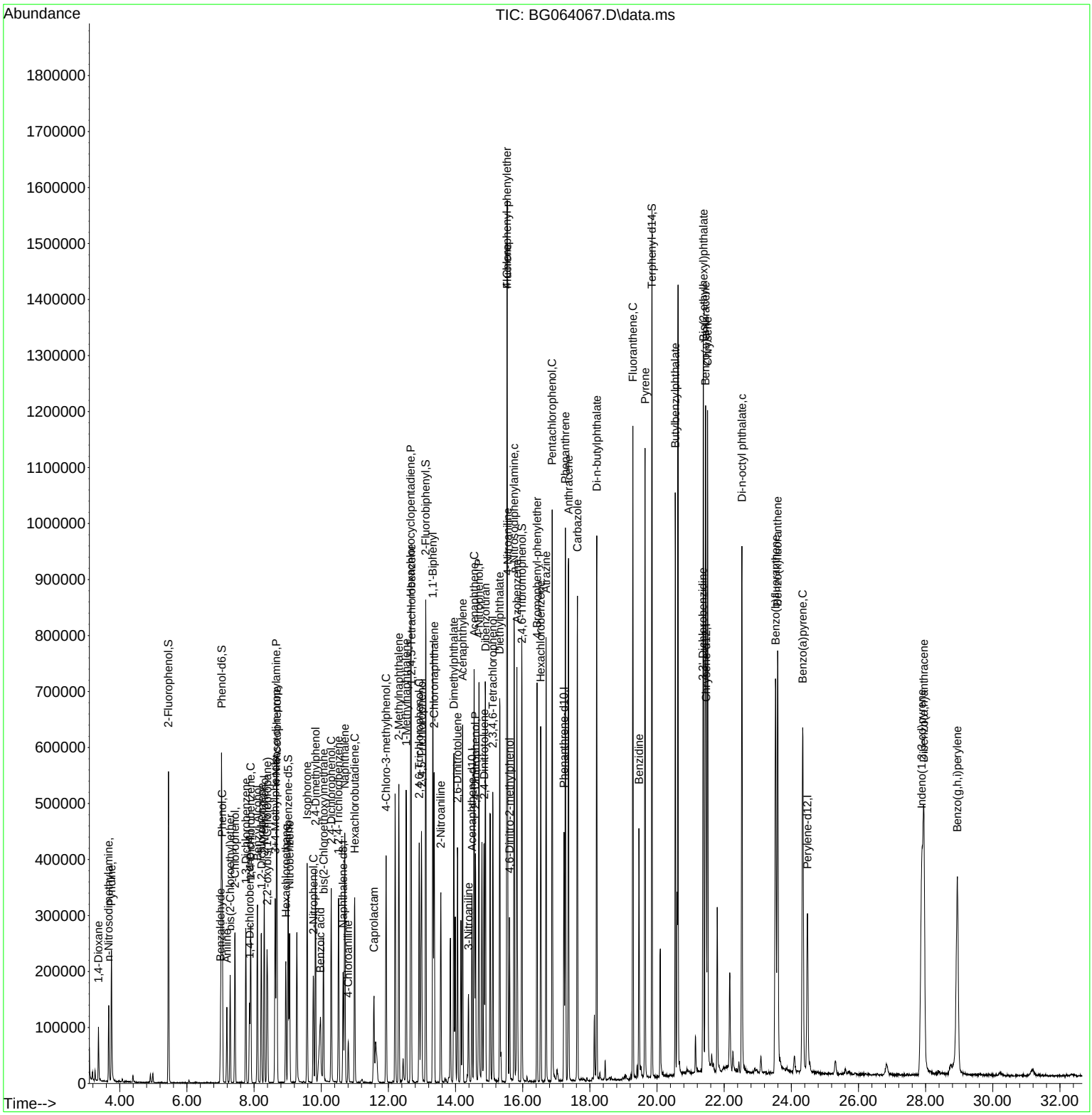
Data Path : Z:\svoasrv\HPCHEM1\BNA_G\Data\BG030725\
Data File : BG064067.D
Acq On : 7 Mar 2025 20:22
Operator : RC/JU
Sample : Q1514-03MSD
Misc :
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Mar 07 22:57:45 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_G\Methods\8270-BG030525.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Mar 05 15:39:19 2025
Response via : Initial Calibration

Instrument :
BNA_G
ClientSampleId :
ENV-105-SB02MSD

Manual Integrations APPROVED

Reviewed By :Anahy Claudio 03/10/2025
Supervised By :Jagrut Upadhyay 03/10/2025



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

Manual Integration Report

Sequence:	BF031025	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC080	BF141904.D	Caprolactam	anahy	3/11/2025 9:10:54 AM	Jagrut	3/11/2025 10:18:21 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BF031125	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1514-01	BF141918.D	Anthracene	anahy	3/12/2025 10:34:16 AM	Jagrut	3/12/2025 11:14:22 AM	Peak Integrated by Software
Q1514-01	BF141918.D	Benzo(b)fluoranthene	anahy	3/12/2025 10:34:16 AM	Jagrut	3/12/2025 11:14:22 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bg030525	Instrument	BNA_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BG064046.D	1,2-Dichlorobenzene	Jagrut	3/6/2025 5:46:12 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC005	BG064046.D	1,4-Dichlorobenzene	Jagrut	3/6/2025 5:46:12 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC005	BG064046.D	2,4,6-Trichlorophenol	Jagrut	3/6/2025 5:46:12 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC005	BG064046.D	Acenaphthene	Jagrut	3/6/2025 5:46:12 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC005	BG064046.D	Benzidine	Jagrut	3/6/2025 5:46:12 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC010	BG064047.D	Acenaphthene	Jagrut	3/6/2025 5:46:22 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC010	BG064047.D	Benzaldehyde	Jagrut	3/6/2025 5:46:22 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC010	BG064047.D	Benzidine	Jagrut	3/6/2025 5:46:22 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC010	BG064047.D	Benzoic acid	Jagrut	3/6/2025 5:46:22 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC020	BG064048.D	Acenaphthene	Jagrut	3/6/2025 5:46:24 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC020	BG064048.D	Benzaldehyde	Jagrut	3/6/2025 5:46:24 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC020	BG064048.D	Benzoic acid	Jagrut	3/6/2025 5:46:24 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICCC040	BG064049.D	Acenaphthene	Jagrut	3/6/2025 5:46:27 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bg030525	Instrument	BNA_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICCC040	BG064049.D	Benzoic acid	Jagrut	3/6/2025 5:46:27 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC050	BG064050.D	Acenaphthene	Jagrut	3/6/2025 5:46:30 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC050	BG064050.D	Benzoic acid	Jagrut	3/6/2025 5:46:30 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC060	BG064051.D	Benzoic acid	Jagrut	3/6/2025 5:46:32 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICC080	BG064052.D	Benzoic acid	Jagrut	3/6/2025 5:46:36 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICV040	BG064053.D	Acenaphthene	Jagrut	3/6/2025 5:46:42 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICV040	BG064053.D	Benzaldehyde	Jagrut	3/6/2025 5:46:42 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software
SSTDICV040	BG064053.D	Benzoic acid	Jagrut	3/6/2025 5:46:42 PM	mohammad	3/7/2025 6:01:50 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BG030725	Instrument	BNA_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BG064056.D	Acenaphthene	anahy	3/10/2025 10:31:51 AM	Jagrut	3/10/2025 5:40:29 PM	Peak Integrated by Software
SSTDCCC040	BG064056.D	Benzoic acid	anahy	3/10/2025 10:31:51 AM	Jagrut	3/10/2025 5:40:29 PM	Peak Integrated by Software
PB167031BS	BG064058.D	Benzoic acid	anahy	3/10/2025 10:34:59 AM	Jagrut	3/10/2025 5:40:33 PM	Peak Integrated by Software
PB167031BS	BG064058.D	Caprolactam	anahy	3/10/2025 10:34:59 AM	Jagrut	3/10/2025 5:40:33 PM	Peak Integrated by Software
PB167027BS	BG064060.D	2,3,4,6-Tetrachlorophenol	anahy	3/10/2025 10:38:13 AM	Jagrut	3/10/2025 5:40:48 PM	Peak Integrated by Software
PB167027BS	BG064060.D	Benzoic acid	anahy	3/10/2025 10:38:13 AM	Jagrut	3/10/2025 5:40:48 PM	Peak Integrated by Software
PB167027BS	BG064060.D	Caprolactam	anahy	3/10/2025 10:38:13 AM	Jagrut	3/10/2025 5:40:48 PM	Peak Integrated by Software
PB167027BSD	BG064061.D	Benzaldehyde	anahy	3/10/2025 10:39:22 AM	Jagrut	3/10/2025 5:41:03 PM	Peak Integrated by Software
PB167027BSD	BG064061.D	Benzoic acid	anahy	3/10/2025 10:39:22 AM	Jagrut	3/10/2025 5:41:03 PM	Peak Integrated by Software
PB167027BSD	BG064061.D	Caprolactam	anahy	3/10/2025 10:39:22 AM	Jagrut	3/10/2025 5:41:03 PM	Peak Integrated by Software
Q1514-03MS	BG064066.D	Benzoic acid	anahy	3/10/2025 10:41:42 AM	Jagrut	3/10/2025 5:40:51 PM	Peak Integrated by Software
Q1514-03MS	BG064066.D	Caprolactam	anahy	3/10/2025 10:41:42 AM	Jagrut	3/10/2025 5:40:51 PM	Peak Integrated by Software
Q1514-03MSD	BG064067.D	Benzoic acid	anahy	3/10/2025 10:42:28 AM	Jagrut	3/10/2025 5:40:54 PM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BG030725	Instrument	BNA_g

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
Q1514-03MSD	BG064067.D	Caprolactam	anahy	3/10/2025 10:42:28 AM	Jagrut	3/10/2025 5:40:54 PM	Peak Integrated by Software

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF031025

Review By	anahy	Review On	3/11/2025 9:11:47 AM				
Supervise By	Jagrut	Supervise On	3/11/2025 10:18:40 AM				
SubDirectory	BF031025	HP Acquire Method	BNA_F		HP Processing Method	bf031025	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141896.D	10 Mar 2025 10:31	RC/JU	Ok
2	SSTDICC2.5	BF141897.D	10 Mar 2025 11:01	RC/JU	Ok
3	SSTDICC005	BF141898.D	10 Mar 2025 11:30	RC/JU	Ok
4	SSTDICC010	BF141899.D	10 Mar 2025 12:00	RC/JU	Ok
5	SSTDICC020	BF141900.D	10 Mar 2025 12:29	RC/JU	Ok
6	SSTDICCC040	BF141901.D	10 Mar 2025 12:58	RC/JU	Ok
7	SSTDICC050	BF141902.D	10 Mar 2025 13:28	RC/JU	Not Ok
8	SSTDICC060	BF141903.D	10 Mar 2025 13:57	RC/JU	Ok
9	SSTDICC080	BF141904.D	10 Mar 2025 14:27	RC/JU	Ok,M
10	SSTDICC050	BF141905.D	10 Mar 2025 15:20	RC/JU	Ok
11	SSTDICV040	BF141906.D	10 Mar 2025 15:53	RC/JU	Ok
12	PB167012BL	BF141907.D	10 Mar 2025 17:09	RC/JU	Ok
13	SP6752	BF141908.D	10 Mar 2025 17:39	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF031125

Review By	anahy	Review On	3/12/2025 10:51:52 AM				
Supervise By	Jagrut	Supervise On	3/12/2025 11:14:52 AM				
SubDirectory	BF031125	HP Acquire Method	BNA_F		HP Processing Method	bf031025	

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141909.D	11 Mar 2025 10:52	RC/JU	Ok
2	SSTDCCC040	BF141910.D	11 Mar 2025 11:51	RC/JU	Ok
3	PB167045BL	BF141911.D	11 Mar 2025 12:21	RC/JU	Ok
4	PB167012BS	BF141912.D	11 Mar 2025 12:51	RC/JU	Ok,M
5	PB167078BL	BF141913.D	11 Mar 2025 13:20	RC/JU	Ok
6	PB167078BS	BF141914.D	11 Mar 2025 13:50	RC/JU	Ok,M
7	Q1514-05	BF141915.D	11 Mar 2025 14:26	RC/JU	Ok
8	Q1507-01	BF141916.D	11 Mar 2025 14:56	RC/JU	Dilution
9	Q1508-01	BF141917.D	11 Mar 2025 15:26	RC/JU	Ok,M
10	Q1514-01	BF141918.D	11 Mar 2025 16:12	RC/JU	Ok,M
11	Q1534-06	BF141919.D	11 Mar 2025 16:42	RC/JU	Ok
12	Q1534-12	BF141920.D	11 Mar 2025 17:12	RC/JU	Ok
13	Q1534-18	BF141921.D	11 Mar 2025 17:42	RC/JU	Ok
14	Q1534-24	BF141922.D	11 Mar 2025 18:12	RC/JU	Ok,M
15	Q1534-03	BF141923.D	11 Mar 2025 18:42	RC/JU	Not Ok
16	Q1515-01	BF141924.D	11 Mar 2025 19:12	RC/JU	Ok,M
17	Q1534-07	BF141925.D	11 Mar 2025 19:42	RC/JU	Not Ok
18	Q1534-01	BF141926.D	11 Mar 2025 20:12	RC/JU	Ok,M
19	Q1507-01DL	BF141927.D	11 Mar 2025 20:42	RC/JU	Not Ok
20	Q1535-01	BF141928.D	11 Mar 2025 21:12	RC/JU	Ok,M
21	Q1494-03	BF141929.D	11 Mar 2025 21:42	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QCBatch ID # BG030525

Review By	Jagrut	Review On	3/6/2025 5:46:57 PM		
Supervise By	mohammad	Supervise On	3/7/2025 6:01:50 AM		
SubDirectory	BG030525	HP Acquire Method	BNA_G	HP Processing Method	bg030525

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BG064044.D	5 Mar 2025 8:15	RC/JU	Ok
2	SSTDICC2.5	BG064045.D	5 Mar 2025 9:02	RC/JU	Ok
3	SSTDICC005	BG064046.D	5 Mar 2025 9:42	RC/JU	Ok,M
4	SSTDICC010	BG064047.D	5 Mar 2025 10:22	RC/JU	Ok,M
5	SSTDICC020	BG064048.D	5 Mar 2025 11:03	RC/JU	Ok,M
6	SSTDICCC040	BG064049.D	5 Mar 2025 11:43	RC/JU	Ok,M
7	SSTDICC050	BG064050.D	5 Mar 2025 12:23	RC/JU	Ok,M
8	SSTDICC060	BG064051.D	5 Mar 2025 13:04	RC/JU	Ok,M
9	SSTDICC080	BG064052.D	5 Mar 2025 13:44	RC/JU	Ok,M
10	SSTDICV040	BG064053.D	5 Mar 2025 15:10	RC/JU	Ok,M
11	PB166970BL	BG064054.D	5 Mar 2025 15:50	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QCBatch ID # BG030725

Review By	anahy	Review On	3/10/2025 10:42:50 AM		
Supervise By	Jagrut	Supervise On	3/10/2025 5:41:17 PM		
SubDirectory	BG030725	HP Acquire Method	BNA_G	HP Processing Method	bg030525

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BG064055.D	7 Mar 2025 12:15	RC/JU	Ok
2	SSTDCCC040	BG064056.D	7 Mar 2025 12:56	RC/JU	Ok,M
3	PB167031BL	BG064057.D	7 Mar 2025 13:37	RC/JU	Ok
4	PB167031BS	BG064058.D	7 Mar 2025 14:18	RC/JU	Ok,M
5	PB167027BL	BG064059.D	7 Mar 2025 14:58	RC/JU	Ok
6	PB167027BS	BG064060.D	7 Mar 2025 15:39	RC/JU	Ok,M
7	PB167027BSD	BG064061.D	7 Mar 2025 16:19	RC/JU	Ok,M
8	Q1494-01	BG064062.D	7 Mar 2025 17:00	RC/JU	Ok
9	Q1514-07	BG064063.D	7 Mar 2025 17:40	RC/JU	Ok
10	Q1514-09	BG064064.D	7 Mar 2025 18:21	RC/JU	Ok
11	Q1514-03	BG064065.D	7 Mar 2025 19:01	RC/JU	Ok
12	Q1514-03MS	BG064066.D	7 Mar 2025 19:42	RC/JU	Ok,M
13	Q1514-03MSD	BG064067.D	7 Mar 2025 20:22	RC/JU	Ok,M
14	Q1514-08	BG064068.D	7 Mar 2025 21:03	RC/JU	Ok
15	Q1494-04	BG064069.D	7 Mar 2025 21:43	RC/JU	Ok
16	Q1494-06	BG064070.D	7 Mar 2025 22:24	RC/JU	Ok
17	Q1494-08	BG064071.D	7 Mar 2025 23:05	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF031025

Review By	anahy	Review On	3/11/2025 9:11:47 AM		
Supervise By	Jagrut	Supervise On	3/11/2025 10:18:40 AM		
SubDirectory	BF031025	HP Acquire Method	BNA_F	HP Processing Method	bf031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141896.D	10 Mar 2025 10:31		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF141897.D	10 Mar 2025 11:01		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF141898.D	10 Mar 2025 11:30	Compound#9,32,54,65 removed from 5 ppm	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF141899.D	10 Mar 2025 12:00		RC/JU	Ok
5	SSTDICC020	SSTDICC020	BF141900.D	10 Mar 2025 12:29	Compound #54 Kept on LR, Method is good for DOD . Method failed for compound #77.	RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF141901.D	10 Mar 2025 12:58		RC/JU	Ok
7	SSTDICC050	SSTDICC050	BF141902.D	10 Mar 2025 13:28	Not used	RC/JU	Not Ok
8	SSTDICC060	SSTDICC060	BF141903.D	10 Mar 2025 13:57	Compound#69 Removed from 60 ppm	RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF141904.D	10 Mar 2025 14:27	Compound#9,69 Removed from 80 ppm	RC/JU	Ok,M
10	SSTDICC050	SSTDICC050	BF141905.D	10 Mar 2025 15:20		RC/JU	Ok
11	SSTDICV040	ICVBF031025	BF141906.D	10 Mar 2025 15:53		RC/JU	Ok
12	PB167012BL	PB167012BL	BF141907.D	10 Mar 2025 17:09		RC/JU	Ok
13	SP6752	SP6752	BF141908.D	10 Mar 2025 17:39	8270 SPIKE-SP6752	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF031125

Review By	anahy	Review On	3/12/2025 10:51:52 AM		
Supervise By	Jagrut	Supervise On	3/12/2025 11:14:52 AM		
SubDirectory	BF031125	HP Acquire Method	BNA_F	HP Processing Method	bf031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141909.D	11 Mar 2025 10:52		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141910.D	11 Mar 2025 11:51	CCC fail high side for com. #77	RC/JU	Ok
3	PB167045BL	PB167045BL	BF141911.D	11 Mar 2025 12:21		RC/JU	Ok
4	PB167012BS	PB167012BS	BF141912.D	11 Mar 2025 12:51		RC/JU	Ok,M
5	PB167078BL	PB167078BL	BF141913.D	11 Mar 2025 13:20		RC/JU	Ok
6	PB167078BS	PB167078BS	BF141914.D	11 Mar 2025 13:50		RC/JU	Ok,M
7	Q1514-05	ENV-103-SB01	BF141915.D	11 Mar 2025 14:26		RC/JU	Ok
8	Q1507-01	50-MIDDLESEX-AVE	BF141916.D	11 Mar 2025 14:56	Need 5X Dilution	RC/JU	Dilution
9	Q1508-01	RBR251372	BF141917.D	11 Mar 2025 15:26	Internal standard failed.	RC/JU	Ok,M
10	Q1514-01	ENV-105-SB01	BF141918.D	11 Mar 2025 16:12		RC/JU	Ok,M
11	Q1534-06	OR-363-COMP-16	BF141919.D	11 Mar 2025 16:42		RC/JU	Ok
12	Q1534-12	OR-363-COMP-17	BF141920.D	11 Mar 2025 17:12		RC/JU	Ok
13	Q1534-18	OR-363-COMP-18	BF141921.D	11 Mar 2025 17:42		RC/JU	Ok
14	Q1534-24	OR-363OR-363-COMP	BF141922.D	11 Mar 2025 18:12		RC/JU	Ok,M
15	Q1534-03	OR-363-46	BF141923.D	11 Mar 2025 18:42	Test is not present on login page	RC/JU	Not Ok
16	Q1515-01	AU-06-030625	BF141924.D	11 Mar 2025 19:12		RC/JU	Ok,M
17	Q1534-07	OR-363-COMP-17	BF141925.D	11 Mar 2025 19:42	Need Straight Run	RC/JU	Not Ok
18	Q1534-01	OR-363-COMP-16	BF141926.D	11 Mar 2025 20:12	Internal Standard Fail	RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF031125

Review By	anahy	Review On	3/12/2025 10:51:52 AM		
Supervise By	Jagrut	Supervise On	3/12/2025 11:14:52 AM		
SubDirectory	BF031125	HP Acquire Method	BNA_F	HP Processing Method	bf031025

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q1507-01DL	50-MIDDLESEX-AVEDI	BF141927.D	11 Mar 2025 20:42	Internal Standard Fail	RC/JU	Not Ok
20	Q1535-01	SU-03-03102025	BF141928.D	11 Mar 2025 21:12	Internal Standard Fail	RC/JU	Ok,M
21	Q1494-03	ASPHALT-SOIL	BF141929.D	11 Mar 2025 21:42	Internal Standard Fail	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QCBatch ID # BG030525

Review By	Jagrut	Review On	3/6/2025 5:46:57 PM		
Supervise By	mohammad	Supervise On	3/7/2025 6:01:50 AM		
SubDirectory	BG030525	HP Acquire Method	BNA_G	HP Processing Method	bg030525

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BG064044.D	5 Mar 2025 8:15		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BG064045.D	5 Mar 2025 9:02		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BG064046.D	5 Mar 2025 9:42	Compound#32,54,56,65,70,85 removed from 5 ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BG064047.D	5 Mar 2025 10:22		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BG064048.D	5 Mar 2025 11:03	Compound#32,51,54,57,65,80 Kept on LR & Compound#26,48 Kept on QR	RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BG064049.D	5 Mar 2025 11:43	Calibration is good for 8270 E and 8270 DOD. Benzidine failed in the Calibration.	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BG064050.D	5 Mar 2025 12:23		RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BG064051.D	5 Mar 2025 13:04	Compound#69 removed from 60 ppm	RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BG064052.D	5 Mar 2025 13:44	Compound#9,69 removed from 80 ppm	RC/JU	Ok,M
10	SSTDICV040	ICVBG030525	BG064053.D	5 Mar 2025 15:10		RC/JU	Ok,M
11	PB166970BL	PB166970BL	BG064054.D	5 Mar 2025 15:50		RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_G

Daily Analysis Runlog For Sequence/QCBatch ID # BG030725

Review By	anahy	Review On	3/10/2025 10:42:50 AM		
Supervise By	Jagrut	Supervise On	3/10/2025 5:41:17 PM		
SubDirectory	BG030725	HP Acquire Method	BNA_G	HP Processing Method	bg030525

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729
CCC	SP6725
Internal Standard/PEM	S12653,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BG064055.D	7 Mar 2025 12:15		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BG064056.D	7 Mar 2025 12:56		RC/JU	Ok,M
3	PB167031BL	PB167031BL	BG064057.D	7 Mar 2025 13:37		RC/JU	Ok
4	PB167031BS	PB167031BS	BG064058.D	7 Mar 2025 14:18		RC/JU	Ok,M
5	PB167027BL	PB167027BL	BG064059.D	7 Mar 2025 14:58		RC/JU	Ok
6	PB167027BS	PB167027BS	BG064060.D	7 Mar 2025 15:39		RC/JU	Ok,M
7	PB167027BSD	PB167027BSD	BG064061.D	7 Mar 2025 16:19		RC/JU	Ok,M
8	Q1494-01	PURGE-WATER	BG064062.D	7 Mar 2025 17:00		RC/JU	Ok
9	Q1514-07	ENV-105-GW01	BG064063.D	7 Mar 2025 17:40		RC/JU	Ok
10	Q1514-09	FB03062025	BG064064.D	7 Mar 2025 18:21		RC/JU	Ok
11	Q1514-03	ENV-105-SB02	BG064065.D	7 Mar 2025 19:01		RC/JU	Ok
12	Q1514-03MS	ENV-105-SB02MS	BG064066.D	7 Mar 2025 19:42		RC/JU	Ok,M
13	Q1514-03MSD	ENV-105-SB02MSD	BG064067.D	7 Mar 2025 20:22		RC/JU	Ok,M
14	Q1514-08	ENV-103-GW01	BG064068.D	7 Mar 2025 21:03		RC/JU	Ok
15	Q1494-04	ASPHALT-SOIL	BG064069.D	7 Mar 2025 21:43		RC/JU	Ok
16	Q1494-06	SOIL	BG064070.D	7 Mar 2025 22:24		RC/JU	Ok
17	Q1494-08	SOIL-COMP	BG064071.D	7 Mar 2025 23:05		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167027

SOP ID:	M3510C,3580A-Extraction SVOC-20				
Clean Up SOP #:	N/A			**Extraction Start Date :**	03/07/2025
Matrix :	Water			**Extraction Start Time :**	08:24
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	03/07/2025
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	13:30
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3880	**Hood ID:**	4,6,7	**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	SP6720
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3878
Baked Na2SO4	N/A	EP2590
10N NaoH	N/A	EP2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial lot# 2210673. pH Adjusted<2 with 1:1 H2SO4 & >11 with 10 N NaOH.
Q1514-09 Limited volume received.

KD Bath ID:	WATER BATH-1,2	**Envap ID:**	NEVAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/7/25	RS (EXT-Lab)	RC/SVOC
13:35	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167027

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 03/07/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167027BL	SBLK027	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1			SEP-11
PB167027BS	SLCS027	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1			12
PB167027BSD	SLCSD027	SVOC-TCL BNA -20	1000	6	RUPESH	ritesh	1			13
Q1494-01	PURGE-WATER	SVOC-TCL BNA -20	960	6	RUPESH	ritesh	1	M		14
Q1514-07	ENV-105-GW01	SVOC-TCL BNA -20	800	6	RUPESH	ritesh	1	G		15
Q1514-08	ENV-103-GW01	SVOC-TCL BNA -20	850	6	RUPESH	ritesh	1	G		16
Q1514-09	FB03062025	SVOC-TCL BNA -20	380	6	RUPESH	ritesh	0.5	G		17

RS
3/7

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

16/7/25 8:24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1494 **WorkList ID :** 188103 **Department :** Extraction **Date :** 03-07-2025 08:18:07

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1494-01	PURGE-WATER	Water	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I31	03/05/2025	8270E
Q1514-07	ENV-105-GW01	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	I31	03/05/2025	8270E
Q1514-08	ENV-103-GW01	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	I31	03/05/2025	8270E
Q1514-09	FB03062025	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	I31	03/05/2025	8270E

Date/Time 3/7/25 8:20
Raw Sample Received by: RS (ESS-Webb)
Raw Sample Relinquished by:

Date/Time 3/7/25 9:05
Raw Sample Received by:
Raw Sample Relinquished by: RS (ESS-Webb)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167031

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 03/07/2025

Extraction Start Time : 08:55

Extraction End Date : 03/07/2025

Extraction End Time : 11:55

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	SP6720
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2591
Baked Na2SO4	N/A	EP2590
Methylene Chloride	N/A	E3878
Sand	N/A	E2865
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot # 2210673.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
3/7/25	RS (Ext lab)	RC/SVOC
12:00	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167031

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 03/07/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167031BL	SBLK031	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1			U2-1
PB167031BS	SLCS031	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			2
Q1507-01	50-MIDDLESEX-AVE	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E		3
Q1508-01	RBR251372	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		4
Q1514-01	ENV-105-SB01	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		5
Q1514-03	ENV-105-SB02	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		6
Q1514-03MS	ENV-105-SB02MS	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	E		U3-1
Q1514-03MSD	ENV-105-SB02MSD	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		2
Q1514-05	ENV-103-SB01	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	E		3
Q1515-01	AU-06-030625	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	E		4
Q1518-01	OILY-DEBRIS-COMP	SVOC-PAH	50.03	N/A	ritesh	Evelyn	1	E		5

RS
3/7

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

167031
8:55

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q1508 **WorkList ID :** 188104 **Department :** Extraction **Date :** 03-07-2025 08:19:30

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1507-01	50-MIDDLESEX-AVE	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I21	03/06/2025	8270E
Q1508-01	RBR251372	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	I21	03/06/2025	8270E
Q1514-01	ENV-105-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	I31	03/05/2025	8270E
Q1514-03	ENV-105-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	I31	03/05/2025	8270E
Q1514-05	ENV-103-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	I31	03/05/2025	8270E
Q1515-01	AU-06-030625	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	I21	03/06/2025	8270E
Q1518-01	OILY-DEBRIS-COMP	Solid	SVOC-PAH	Cool 4 deg C	PSEG03	I21	03/06/2025	8270E

Date/Time 3/7/25 8:50
Raw Sample Received by: RJ (EXT lock)
Raw Sample Relinquished by:

Date/Time 3/7/25 9:15
Raw Sample Received by:
Raw Sample Relinquished by: RJ (EXT lock)

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

LAB CHRONICLE

OrderID:	Q1514	**OrderDate:**	3/6/2025 2:08:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2025
Contact:	Joseph Krupansky	**Location:**	I31,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1514-01	**ENV-105-SB01**	**SOIL**			**03/05/25**			**03/06/25**
			SVOC-TCL BNA -20	8270E		03/07/25	03/11/25	
Q1514-02	**ENV-105-SB01**	**TCLP**			**03/05/25**			**03/06/25**
			TCLP BNA	8270E		03/07/25	03/10/25	
Q1514-03	**ENV-105-SB02**	**SOIL**			**03/05/25**			**03/06/25**
			SVOC-TCL BNA -20	8270E		03/07/25	03/07/25	
Q1514-04	**ENV-105-SB02**	**TCLP**			**03/05/25**			**03/06/25**
			TCLP BNA	8270E		03/07/25	03/10/25	
Q1514-05	**ENV-103-SB01**	**SOIL**			**03/05/25**			**03/06/25**
			SVOC-TCL BNA -20	8270E		03/07/25	03/11/25	
Q1514-06	**ENV-103-SB01**	**TCLP**			**03/05/25**			**03/06/25**
			TCLP BNA	8270E		03/07/25	03/10/25	
Q1514-07	**ENV-105-GW01**	**Water**			**03/05/25**			**03/06/25**
			SVOC-TCL BNA -20	8270E		03/07/25	03/07/25	
Q1514-08	**ENV-103-GW01**	**Water**			**03/05/25**			**03/06/25**
			SVOC-TCL BNA -20	8270E		03/07/25	03/07/25	
Q1514-09	**FB03062025**	**Water**			**03/06/25**			**03/06/25**
			SVOC-TCL BNA -20	8270E		03/07/25	03/07/25	