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

Hit Summary Sheet
SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**WB-310-TOP**								
P4892-01	WB-310-TOP	SOIL	Acenaphthylene		200.000	J	140	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Phenanthrene		720.000		140	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Anthracene		330.000		140	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Fluoranthene		1,400.000		140	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Pyrene		1,100.000		140	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzo(a)anthracene		1,100.000		130	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Chrysene		980.000		130	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzo(b)fluoranthene		840.000		140	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzo(k)fluoranthene		350.000		140	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzo(a)pyrene		910.000		160	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Indeno(1,2,3-cd)pyrene		300.000		130	280	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzo(g,h,i)perylene		320.000		130	280	ug/Kg
			Total Svoc :		**8,550.00**				
P4892-01	WB-310-TOP	SOIL	11H-Benzo[a]fluorene	*	190.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	11H-Benzo[b]fluorene	*	360.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	4-Bromothiophene-2-aldehyde	*	840.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	9,10-Dimethylanthracene	*	430.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Anthracene, 1-methyl-	*	280.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Anthracene, 2-methyl-	*	470.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzene, 1,1-(1,3-butadiyne-1,4-d	*	270.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzo[e]pyrene	*	400.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Benzophenone	*	320.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Butane, 2-methoxy-2-methyl-	*	2,100.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Decane, 2-methyl-	*	320.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Naphthalene, 2,3,6-trimethyl-	*	180.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Naphthalene, 2-phenyl-	*	160.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Naphtho[2,1-b]thiophene	*	210.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Fluoranthene, 2-methyl-	*	180.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Hexadecane, 2,6,10,14-tetramethy	*	150.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Phenanthrene, 2-methyl-	*	290.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Pyrene, 1-methyl-	*	180.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	Pyrene, 4-methyl-	*	160.000	J	0	0	ug/Kg
P4892-01	WB-310-TOP	SOIL	unknown9.616	*	270.000	J	0	0	ug/Kg
			Total Tics :		**7,760.00**				
			Total Concentration:		**16,310.00**				
Client ID :	**WB-310-BOT**								
P4892-02	WB-310-BOT	SOIL	Benzophenone	*	250.000	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
P4892-02	WB-310-BOT	SOIL	Butane, 2-methoxy-2-methyl-	*	1,800.000	J	0	0	ug/Kg
P4892-02	WB-310-BOT	SOIL	n-Hexadecanoic acid	*	330.000	J	0	0	ug/Kg
P4892-02	WB-310-BOT	SOIL	Pentanedioic acid, dimethyl ester	*	97.300	J	0	0	ug/Kg
			Total Tics :		**2,477.30**				
			Total Concentration:		**2,477.30**				
Client ID : WB-310-SW									
P4892-04	WB-310-SW	WATER	Supraene	*	2.800	J	0	0	ug/L
P4892-04	WB-310-SW	WATER	unknown14.239	*	2.100	J	0	0	ug/L
			Total Tics :		**4.90**				
			Total Concentration:		**4.90**				

SAMPLE DATA

Raw Data: **BF140510.D**

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

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-TOP	SDG No.:	P4892
Lab Sample ID:	P4892-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	59.8
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
BF140510.D	1	11/19/24 09:00	11/20/24 20:02	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	300	UQ	300	550	ug/Kg
108-95-2	Phenol	140	U	140	280	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	140	U	140	280	ug/Kg
95-57-8	2-Chlorophenol	140	U	140	280	ug/Kg
95-48-7	2-Methylphenol	130	U	130	280	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	150	U	150	280	ug/Kg
98-86-2	Acetophenone	150	U	150	280	ug/Kg
65794-96-9	3+4-Methylphenols	130	U	130	550	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	67.3	U	67.3	130	ug/Kg
67-72-1	Hexachloroethane	140	U	140	280	ug/Kg
98-95-3	Nitrobenzene	150	U	150	280	ug/Kg
78-59-1	Isophorone	140	U	140	280	ug/Kg
88-75-5	2-Nitrophenol	160	U	160	280	ug/Kg
105-67-9	2,4-Dimethylphenol	160	U	160	280	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	140	U	140	280	ug/Kg
120-83-2	2,4-Dichlorophenol	130	U	130	280	ug/Kg
91-20-3	Naphthalene	140	U	140	280	ug/Kg
106-47-8	4-Chloroaniline	140	UQ	140	280	ug/Kg
87-68-3	Hexachlorobutadiene	140	U	140	280	ug/Kg
105-60-2	Caprolactam	140	U	140	550	ug/Kg
59-50-7	4-Chloro-3-methylphenol	130	U	130	280	ug/Kg
91-57-6	2-Methylnaphthalene	140	U	140	280	ug/Kg
77-47-4	Hexachlorocyclopentadiene	260	UQ	260	550	ug/Kg
88-06-2	2,4,6-Trichlorophenol	120	U	120	280	ug/Kg
95-95-4	2,4,5-Trichlorophenol	120	U	120	280	ug/Kg
92-52-4	1,1-Biphenyl	150	U	150	280	ug/Kg
91-58-7	2-Chloronaphthalene	140	U	140	280	ug/Kg
88-74-4	2-Nitroaniline	160	U	160	280	ug/Kg
131-11-3	Dimethylphthalate	140	U	140	280	ug/Kg

Raw Data: **BF140510.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-TOP	SDG No.:	P4892
Lab Sample ID:	P4892-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	59.8
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
BF140510.D	1	11/19/24 09:00	11/20/24 20:02	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	200	J	140	280	ug/Kg
606-20-2	2,6-Dinitrotoluene	140	U	140	280	ug/Kg
99-09-2	3-Nitroaniline	150	UQ	150	280	ug/Kg
83-32-9	Acenaphthene	140	U	140	280	ug/Kg
51-28-5	2,4-Dinitrophenol	410	U	410	550	ug/Kg
100-02-7	4-Nitrophenol	190	U	190	550	ug/Kg
132-64-9	Dibenzofuran	140	U	140	280	ug/Kg
121-14-2	2,4-Dinitrotoluene	140	U	140	280	ug/Kg
84-66-2	Diethylphthalate	130	U	130	280	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	140	U	140	280	ug/Kg
86-73-7	Fluorene	140	U	140	280	ug/Kg
100-01-6	4-Nitroaniline	180	U	180	280	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	200	U	200	550	ug/Kg
86-30-6	n-Nitrosodiphenylamine	140	U	140	280	ug/Kg
101-55-3	4-Bromophenyl-phenylether	130	U	130	280	ug/Kg
118-74-1	Hexachlorobenzene	140	U	140	280	ug/Kg
1912-24-9	Atrazine	150	U	150	280	ug/Kg
87-86-5	Pentachlorophenol	130	U	130	550	ug/Kg
85-01-8	Phenanthrene	720		140	280	ug/Kg
120-12-7	Anthracene	330		140	280	ug/Kg
86-74-8	Carbazole	130	U	130	280	ug/Kg
84-74-2	Di-n-butylphthalate	140	U	140	280	ug/Kg
206-44-0	Fluoranthene	1400		140	280	ug/Kg
129-00-0	Pyrene	1100		140	280	ug/Kg
85-68-7	Butylbenzylphthalate	160	U	160	280	ug/Kg
91-94-1	3,3-Dichlorobenzidine	160	UQ	160	550	ug/Kg
56-55-3	Benzo(a)anthracene	1100		130	280	ug/Kg
218-01-9	Chrysene	980		130	280	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	150	U	150	280	ug/Kg
117-84-0	Di-n-octyl phthalate	180	U	180	550	ug/Kg
205-99-2	Benzo(b)fluoranthene	840		140	280	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-TOP	SDG No.:	P4892
Lab Sample ID:	P4892-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	59.8
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
BF140510.D	1	11/19/24 09:00	11/20/24 20:02	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	350		140	280	ug/Kg
50-32-8	Benzo(a)pyrene	910		160	280	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	300		130	280	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	140	U	140	280	ug/Kg
191-24-2	Benzo(g,h,i)perylene	320		130	280	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	140	U	140	280	ug/Kg
123-91-1	1,4-Dioxane	180	U	180	280	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	120	U	120	280	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	96.6		30 (18) - 130 (112)	64%	SPK: 150
13127-88-3	Phenol-d6	90.3		30 (15) - 130 (107)	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	68.0		30 (18) - 130 (107)	68%	SPK: 100
321-60-8	2-Fluorobiphenyl	77.0		30 (20) - 130 (109)	77%	SPK: 100
118-79-6	2,4,6-Tribromophenol	87.1		30 (10) - 130 (116)	58%	SPK: 150
1718-51-0	Terphenyl-d14	58.6		30 (10) - 130 (105)	59%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	110000	6.875			
1146-65-2	Naphthalene-d8	378000	8.151			
15067-26-2	Acenaphthene-d10	180000	9.904			
1517-22-2	Phenanthrene-d10	279000	11.398			
1719-03-5	Chrysene-d12	209000	14.045			
1520-96-3	Perylene-d12	217000	15.533			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	2100	J		2.15	ug/Kg
	unknown9.616	270	J		9.62	ug/Kg
000829-26-5	Naphthalene, 2,3,6-trimethyl-	180	J		10.3	ug/Kg
000638-36-8	Hexadecane, 2,6,10,14-tetramethyl-	150	J		10.6	ug/Kg
000119-61-9	Benzophenone	320	J		10.6	ug/Kg
006975-98-0	Decane, 2-methyl-	320	J		10.8	ug/Kg
000233-02-3	Naphtho[2,1-b]thiophene	210	J		11.3	ug/Kg

Raw Data: **BF140510.D**

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

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-TOP	SDG No.:	P4892
Lab Sample ID:	P4892-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	59.8
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
BF140510.D	1	11/19/24 09:00	11/20/24 20:02	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000610-48-0	Anthracene, 1-methyl-	280	J		11.9	ug/Kg
000613-12-7	Anthracene, 2-methyl-	470	J		11.9	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	290	J		12.0	ug/Kg
018791-75-8	4-Bromothiophene-2-aldehyde	840	J		12.0	ug/Kg
000612-94-2	Naphthalene, 2-phenyl-	160	J		12.2	ug/Kg
000781-43-1	9,10-Dimethylanthracene	430	J		12.5	ug/Kg
000886-66-8	Benzene, 1,1-(1,3-butadiyne-1,4-d	270	J		12.7	ug/Kg
033543-31-6	Fluoranthene, 2-methyl-	180	J		13.1	ug/Kg
000243-17-4	11H-Benzo[b]fluorene	360	J		13.2	ug/Kg
000238-84-6	11H-Benzo[a]fluorene	190	J		13.2	ug/Kg
002381-21-7	Pyrene, 1-methyl-	180	J		13.3	ug/Kg
003353-12-6	Pyrene, 4-methyl-	160	J		13.4	ug/Kg
000192-97-2	Benzo[e]pyrene	400	J		15.4	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

Raw Data: **BF140495.D**

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

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.1
Sample Wt/Vol:	30.09 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
BF140495.D	1	11/19/24 09:00	11/20/24 12:42	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	UQ	210	380	ug/Kg
108-95-2	Phenol	96.0	U	96.0	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	96.9	U	96.9	200	ug/Kg
95-57-8	2-Chlorophenol	96.7	U	96.7	200	ug/Kg
95-48-7	2-Methylphenol	93.3	U	93.3	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	U	110	200	ug/Kg
98-86-2	Acetophenone	100	U	100	200	ug/Kg
65794-96-9	3+4-Methylphenols	92.4	U	92.4	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	46.7	U	46.7	92.6	ug/Kg
67-72-1	Hexachloroethane	96.1	U	96.1	200	ug/Kg
98-95-3	Nitrobenzene	110	U	110	200	ug/Kg
78-59-1	Isophorone	98.0	U	98.0	200	ug/Kg
88-75-5	2-Nitrophenol	110	U	110	200	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	99.4	U	99.4	200	ug/Kg
120-83-2	2,4-Dichlorophenol	87.4	U	87.4	200	ug/Kg
91-20-3	Naphthalene	95.6	U	95.6	200	ug/Kg
106-47-8	4-Chloroaniline	95.6	UQ	95.6	200	ug/Kg
87-68-3	Hexachlorobutadiene	96.5	U	96.5	200	ug/Kg
105-60-2	Caprolactam	100	U	100	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	89.7	U	89.7	200	ug/Kg
91-57-6	2-Methylnaphthalene	95.5	U	95.5	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	180	UQ	180	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	82.7	U	82.7	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	85.7	U	85.7	200	ug/Kg
92-52-4	1,1-Biphenyl	100	U	100	200	ug/Kg
91-58-7	2-Chloronaphthalene	96.5	U	96.5	200	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	200	ug/Kg
131-11-3	Dimethylphthalate	94.6	U	94.6	200	ug/Kg

Raw Data: **BF140495.D**

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

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.1
Sample Wt/Vol:	30.09 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
BF140495.D	1	11/19/24 09:00	11/20/24 12:42	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	100	U	100	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	96.3	U	96.3	200	ug/Kg
99-09-2	3-Nitroaniline	100	UQ	100	200	ug/Kg
83-32-9	Acenaphthene	93.9	U	93.9	200	ug/Kg
51-28-5	2,4-Dinitrophenol	280	U	280	380	ug/Kg
100-02-7	4-Nitrophenol	130	U	130	380	ug/Kg
132-64-9	Dibenzofuran	97.7	U	97.7	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	99.8	U	99.8	200	ug/Kg
84-66-2	Diethylphthalate	92.8	U	92.8	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	99.1	U	99.1	200	ug/Kg
86-73-7	Fluorene	99.0	U	99.0	200	ug/Kg
100-01-6	4-Nitroaniline	120	U	120	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	U	140	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	94.5	U	94.5	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	91.4	U	91.4	200	ug/Kg
118-74-1	Hexachlorobenzene	98.4	U	98.4	200	ug/Kg
1912-24-9	Atrazine	110	U	110	200	ug/Kg
87-86-5	Pentachlorophenol	89.5	U	89.5	380	ug/Kg
85-01-8	Phenanthrene	97.3	U	97.3	200	ug/Kg
120-12-7	Anthracene	97.7	U	97.7	200	ug/Kg
86-74-8	Carbazole	93.0	U	93.0	200	ug/Kg
84-74-2	Di-n-butylphthalate	97.6	U	97.6	200	ug/Kg
206-44-0	Fluoranthene	94.6	U	94.6	200	ug/Kg
129-00-0	Pyrene	96.1	U	96.1	200	ug/Kg
85-68-7	Butylbenzylphthalate	110	U	110	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	110	UQ	110	380	ug/Kg
56-55-3	Benzo(a)anthracene	93.4	U	93.4	200	ug/Kg
218-01-9	Chrysene	92.1	U	92.1	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	200	ug/Kg
117-84-0	Di-n-octyl phthalate	130	U	130	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	93.9	U	93.9	200	ug/Kg

Raw Data: **BF140495.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:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.1
Sample Wt/Vol:	30.09 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
BF140495.D	1	11/19/24 09:00	11/20/24 12:42	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	95.6	U	95.6	200	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	90.4	U	90.4	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	94.0	U	94.0	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	92.8	U	92.8	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	100	U	100	200	ug/Kg
123-91-1	1,4-Dioxane	130	U	130	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	86.5	U	86.5	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	121		30 (18) - 130 (112)	81%	SPK: 150
13127-88-3	Phenol-d6	117		30 (15) - 130 (107)	78%	SPK: 150
4165-60-0	Nitrobenzene-d5	81.8		30 (18) - 130 (107)	82%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.4		30 (20) - 130 (109)	85%	SPK: 100
118-79-6	2,4,6-Tribromophenol	126		30 (10) - 130 (116)	84%	SPK: 150
1718-51-0	Terphenyl-d14	87.8		30 (10) - 130 (105)	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	112000	6.875			
1146-65-2	Naphthalene-d8	426000	8.151			
15067-26-2	Acenaphthene-d10	234000	9.91			
1517-22-2	Phenanthrene-d10	439000	11.398			
1719-03-5	Chrysene-d12	272000	14.045			
1520-96-3	Perylene-d12	223000	15.551			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	1800	J		2.16	ug/Kg
001119-40-0	Pentanedioic acid, dimethyl ester	97.3	J		7.68	ug/Kg
000119-61-9	Benzophenone	250	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	330	J		11.9	ug/Kg

Raw Data: **BF140495.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:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOT	SDG No.:	P4892
Lab Sample ID:	P4892-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.1
Sample Wt/Vol:	30.09 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
BF140495.D	1	11/19/24 09:00	11/20/24 12:42	PB165086

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: **BF140607.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:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-SW	SDG No.:	P4892
Lab Sample ID:	P4892-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	485 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
BF140607.D	1	11/20/24 08:29	11/25/24 17:15	PB165152

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.10	U	4.10	10.3	ug/L
108-95-2	Phenol	0.96	U	0.96	5.20	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.20	ug/L
95-57-8	2-Chlorophenol	0.73	U	0.73	5.20	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.20	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.20	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.20	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.3	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.20	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.20	ug/L
78-59-1	Isophorone	1.20	U	1.20	5.20	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.20	ug/L
105-67-9	2,4-Dimethylphenol	1.60	U	1.60	5.20	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.10	U	1.10	5.20	ug/L
120-83-2	2,4-Dichlorophenol	0.91	U	0.91	5.20	ug/L
91-20-3	Naphthalene	1.10	U	1.10	5.20	ug/L
106-47-8	4-Chloroaniline	1.30	UQ	1.30	5.20	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.20	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.3	ug/L
59-50-7	4-Chloro-3-methylphenol	0.87	U	0.87	5.20	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.20	ug/L
77-47-4	Hexachlorocyclopentadiene	5.20	UQ	5.20	10.3	ug/L
88-06-2	2,4,6-Trichlorophenol	0.92	U	0.92	5.20	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.20	ug/L
92-52-4	1,1-Biphenyl	0.94	U	0.94	5.20	ug/L
91-58-7	2-Chloronaphthalene	1.00	U	1.00	5.20	ug/L
88-74-4	2-Nitroaniline	1.50	U	1.50	5.20	ug/L
131-11-3	Dimethylphthalate	0.96	U	0.96	5.20	ug/L

Raw Data: **BF140607.D**

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

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-SW	SDG No.:	P4892
Lab Sample ID:	P4892-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	485 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
BF140607.D	1	11/20/24 08:29	11/25/24 17:15	PB165152

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.10	U	1.10	5.20	ug/L
606-20-2	2,6-Dinitrotoluene	1.30	U	1.30	5.20	ug/L
99-09-2	3-Nitroaniline	1.40	UQ	1.40	5.20	ug/L
83-32-9	Acenaphthene	0.84	U	0.84	5.20	ug/L
51-28-5	2,4-Dinitrophenol	6.60	U	6.60	10.3	ug/L
100-02-7	4-Nitrophenol	2.10	U	2.10	10.3	ug/L
132-64-9	Dibenzofuran	0.96	U	0.96	5.20	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	5.20	ug/L
84-66-2	Diethylphthalate	1.10	U	1.10	5.20	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	1.00	5.20	ug/L
86-73-7	Fluorene	0.99	U	0.99	5.20	ug/L
100-01-6	4-Nitroaniline	2.10	U	2.10	5.20	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.20	U	3.20	10.3	ug/L
86-30-6	n-Nitrosodiphenylamine	0.92	U	0.92	5.20	ug/L
101-55-3	4-Bromophenyl-phenylether	0.98	U	0.98	5.20	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.20	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.20	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.3	ug/L
85-01-8	Phenanthrene	0.92	U	0.92	5.20	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.20	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.20	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.20	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.20	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.20	ug/L
85-68-7	Butylbenzylphthalate	2.20	U	2.20	5.20	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	UQ	1.30	10.3	ug/L
56-55-3	Benzo(a)anthracene	0.97	U	0.97	5.20	ug/L
218-01-9	Chrysene	0.89	U	0.89	5.20	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.20	ug/L
117-84-0	Di-n-octyl phthalate	2.60	U	2.60	10.3	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.20	ug/L

Raw Data: **BF140607.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:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-SW	SDG No.:	P4892
Lab Sample ID:	P4892-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	485 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
BF140607.D	1	11/20/24 08:29	11/25/24 17:15	PB165152

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.20	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.20	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.10	U	1.10	5.20	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.20	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.20	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.20	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.20	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.81	U	0.81	5.20	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	39.5		15 (10) - 110 (139)	53%	SPK: 75
13127-88-3	Phenol-d6	35.6		15 (10) - 110 (134)	47%	SPK: 75
4165-60-0	Nitrobenzene-d5	38.7		30 (49) - 130 (133)	77%	SPK: 50
321-60-8	2-Fluorobiphenyl	40.1		30 (52) - 130 (132)	80%	SPK: 50
118-79-6	2,4,6-Tribromophenol	66.4		15 (44) - 110 (137)	89%	SPK: 75
1718-51-0	Terphenyl-d14	42.1		30 (48) - 130 (125)	84%	SPK: 50
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	64500	6.869			
1146-65-2	Naphthalene-d8	240000	8.151			
15067-26-2	Acenaphthene-d10	131000	9.904			
1517-22-2	Phenanthrene-d10	245000	11.392			
1719-03-5	Chrysene-d12	178000	14.045			
1520-96-3	Perylene-d12	140000	15.551			
TENTATIVE IDENTIFIED COMPOUNDS						
	unknown14.239	2.10	J		14.2	ug/L
007683-64-9	Supraene	2.80	J		14.9	ug/L

Raw Data: **BF140607.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:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-SW	SDG No.:	P4892
Lab Sample ID:	P4892-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	485 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
BF140607.D	1	11/20/24 08:29	11/25/24 17:15	PB165152

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

QC SUMMARY

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

Surrogate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4892-01	WB-310-TOP	2-Fluorophenol	150	96.6	64		30 (18)	130 (112)
		Phenol-d6	150	90.3	60		30 (15)	130 (107)
		Nitrobenzene-d5	100	68.0	68		30 (18)	130 (107)
		2-Fluorobiphenyl	100	77.0	77		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	87.1	58		30 (10)	130 (116)
		Terphenyl-d14	100	58.6	59		30 (10)	130 (105)
P4892-02	WB-310-BOT	2-Fluorophenol	150	121	81		30 (18)	130 (112)
		Phenol-d6	150	117	78		30 (15)	130 (107)
		Nitrobenzene-d5	100	81.8	82		30 (18)	130 (107)
		2-Fluorobiphenyl	100	85.4	85		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	126	84		30 (10)	130 (116)
		Terphenyl-d14	100	87.8	88		30 (10)	130 (105)
P4892-02MS	WB-310-BOTMS	2-Fluorophenol	150	90.7	60		30 (18)	130 (112)
		Phenol-d6	150	86.7	58		30 (15)	130 (107)
		Nitrobenzene-d5	100	62.4	62		30 (18)	130 (107)
		2-Fluorobiphenyl	100	66.1	66		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	96.6	64		30 (10)	130 (116)
		Terphenyl-d14	100	73.3	73		30 (10)	130 (105)
P4892-02MSD	WB-310-BOTMSD	2-Fluorophenol	150	106	70		30 (18)	130 (112)
		Phenol-d6	150	101	67		30 (15)	130 (107)
		Nitrobenzene-d5	100	72.2	72		30 (18)	130 (107)
		2-Fluorobiphenyl	100	75.4	75		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	112	75		30 (10)	130 (116)
		Terphenyl-d14	100	85.7	86		30 (10)	130 (105)
PB165086BL	PB165086BL	2-Fluorophenol	150	124	83		30 (18)	130 (112)
		Phenol-d6	150	120	80		30 (15)	130 (107)
		Nitrobenzene-d5	100	86.1	86		30 (18)	130 (107)
		2-Fluorobiphenyl	100	86.8	87		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	128	86		30 (10)	130 (116)
		Terphenyl-d14	100	85.6	86		30 (10)	130 (105)
PB165086BS	PB165086BS	2-Fluorophenol	150	141	94		30 (18)	130 (112)
		Phenol-d6	150	139	93		30 (15)	130 (107)
		Nitrobenzene-d5	100	95.8	96		30 (18)	130 (107)
		2-Fluorobiphenyl	100	93.3	93		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	143	95		30 (10)	130 (116)
		Terphenyl-d14	100	96.5	96		30 (10)	130 (105)

( ) = LABORATORY INHOUSE LIMIT

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4892-04	WB-310-SW	2-Fluorophenol	75	39.5	53		15 (10)	110 (139)
		Phenol-d6	75	35.6	47		15 (10)	110 (134)
		Nitrobenzene-d5	50	38.7	77		30 (49)	130 (133)
		2-Fluorobiphenyl	50	40.1	80		30 (52)	130 (132)
		2,4,6-Tribromophenol	75	66.4	89		15 (44)	110 (137)
		Terphenyl-d14	50	42.1	84		30 (48)	130 (125)
PB165152BL	PB165152BL	2-Fluorophenol	150	136	91		15 (10)	110 (139)
		Phenol-d6	150	131	87		15 (10)	110 (134)
		Nitrobenzene-d5	100	92.2	92		30 (49)	130 (133)
		2-Fluorobiphenyl	100	93.6	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	133	89		15 (44)	110 (137)
		Terphenyl-d14	100	98.2	98		30 (48)	130 (125)
PB165152BS	PB165152BS	2-Fluorophenol	150	145	97		15 (10)	110 (139)
		Phenol-d6	150	143	95		15 (10)	110 (134)
		Nitrobenzene-d5	100	96.5	97		30 (49)	130 (133)
		2-Fluorobiphenyl	100	96.3	96		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	149	99		15 (44)	110 (137)
		Terphenyl-d14	100	101	101		30 (48)	130 (125)
PB165152BSD	PB165152BSD	2-Fluorophenol	150	124	83		15 (10)	110 (139)
		Phenol-d6	150	121	81		15 (10)	110 (134)
		Nitrobenzene-d5	100	83.1	83		30 (49)	130 (133)
		2-Fluorobiphenyl	100	84.1	84		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	128	86		15 (44)	110 (137)
		Terphenyl-d14	100	86.5	87		30 (48)	130 (125)

( ) = LABORATORY INHOUSE LIMIT

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4892

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: P4892-02MS		**Client Sample ID: WB-310-BOTMS**						**DataFile: BF140496.D**			
Benzaldehyde	1900	0	0	ug/Kg	0	*			20 (10)	160 (86)	
Phenol	1900	0	1700	ug/Kg	89				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	1900	0	1700	ug/Kg	89				70 (54)	130 (125)	
2-Chlorophenol	1900	0	1700	ug/Kg	89				70 (79)	130 (107)	
2-Methylphenol	1900	0	1600	ug/Kg	84				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	1900	0	1600	ug/Kg	84				70 (65)	130 (110)	
Acetophenone	1900	0	1600	ug/Kg	84				70 (75)	130 (111)	
3+4-Methylphenols	1900	0	1600	ug/Kg	84				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	1900	0	1600	ug/Kg	84				70 (59)	130 (119)	
Hexachloroethane	1900	0	1700	ug/Kg	89				20 (65)	160 (117)	
Nitrobenzene	1900	0	1600	ug/Kg	84				70 (70)	130 (119)	
Isophorone	1900	0	1700	ug/Kg	89				70 (76)	130 (122)	
2-Nitrophenol	1900	0	1700	ug/Kg	89				70 (54)	130 (145)	
2,4-Dimethylphenol	1900	0	2000	ug/Kg	105				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	1900	0	1700	ug/Kg	89				70 (68)	130 (112)	
2,4-Dichlorophenol	1900	0	1700	ug/Kg	89				70 (72)	130 (118)	
Naphthalene	1900	0	1600	ug/Kg	84				70 (72)	130 (110)	
4-Chloroaniline	1900	0	650	ug/Kg	34	*			70 (10)	130 (91)	
Hexachlorobutadiene	1900	0	1600	ug/Kg	84				70 (66)	130 (114)	
Caprolactam	1900	0	1600	ug/Kg	84				20 (51)	160 (134)	
4-Chloro-3-methylphenol	1900	0	1700	ug/Kg	89				70 (57)	130 (132)	
2-Methylnaphthalene	1900	0	1700	ug/Kg	89				70 (59)	130 (123)	
Hexachlorocyclopentadiene	3900	0	6600	ug/Kg	169	*			20 (10)	160 (175)	
2,4,6-Trichlorophenol	1900	0	1700	ug/Kg	89				70 (72)	130 (117)	
2,4,5-Trichlorophenol	1900	0	1700	ug/Kg	89				70 (72)	130 (117)	
1,1-Biphenyl	1900	0	1700	ug/Kg	89				70 (75)	130 (113)	
2-Chloronaphthalene	1900	0	1700	ug/Kg	89				70 (67)	130 (118)	
2-Nitroaniline	1900	0	1700	ug/Kg	89				70 (69)	130 (127)	
Dimethylphthalate	1900	0	1800	ug/Kg	95				70 (70)	130 (113)	
Acenaphthylene	1900	0	1800	ug/Kg	95				70 (79)	130 (118)	
2,6-Dinitrotoluene	1900	0	1700	ug/Kg	89				70 (70)	130 (125)	
3-Nitroaniline	1900	0	1100	ug/Kg	58	*			70 (30)	130 (99)	
Acenaphthene	1900	0	1900	ug/Kg	100				70 (70)	130 (121)	
2,4-Dinitrophenol	3900	0	3300	ug/Kg	85				20 (10)	160 (155)	
4-Nitrophenol	3900	0	3100	ug/Kg	79				20 (45)	160 (133)	
Dibenzofuran	1900	0	1700	ug/Kg	89				70 (72)	130 (110)	
2,4-Dinitrotoluene	1900	0	1700	ug/Kg	89				70 (55)	130 (128)	
Diethylphthalate	1900	0	1700	ug/Kg	89				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	1900	0	1700	ug/Kg	89				70 (71)	130 (108)	
Fluorene	1900	0	1700	ug/Kg	89				70 (68)	130 (116)	
4-Nitroaniline	1900	0	1600	ug/Kg	84				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	1900	0	1800	ug/Kg	95				70 (10)	130 (160)	
N-Nitrosodiphenylamine	1900	0	1800	ug/Kg	95				70 (73)	130 (118)	
4-Bromophenyl-phenylether	1900	0	1800	ug/Kg	95				70 (65)	130 (121)	
Hexachlorobenzene	1900	0	1700	ug/Kg	89				70 (67)	130 (118)	
Atrazine	1900	0	1900	ug/Kg	100				70 (79)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4892

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	3900	0	3100	ug/Kg	79				20 (47)	160 (128)	
Phenanthrene	1900	0	1700	ug/Kg	89				70 (52)	130 (128)	
Anthracene	1900	0	1800	ug/Kg	95				70 (62)	130 (124)	
Carbazole	1900	0	1600	ug/Kg	84				70 (59)	130 (119)	
Di-n-butylphthalate	1900	0	1700	ug/Kg	89				70 (69)	130 (118)	
Fluoranthene	1900	0	1500	ug/Kg	79				70 (44)	130 (125)	
Pyrene	1900	0	1900	ug/Kg	100				70 (26)	130 (142)	
Butylbenzylphthalate	1900	0	1900	ug/Kg	100				70 (64)	130 (126)	
3,3-Dichlorobenzidine	1900	0	1300	ug/Kg	68	*			70 (33)	130 (116)	
Benzo(a)anthracene	1900	0	1800	ug/Kg	95				70 (71)	130 (114)	
Chrysene	1900	0	1800	ug/Kg	95				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	1900	0	1900	ug/Kg	100				70 (42)	130 (169)	
Di-n-octyl phthalate	1900	0	1900	ug/Kg	100				70 (23)	130 (175)	
Benzo(b)fluoranthene	1900	0	1600	ug/Kg	84				70 (67)	130 (121)	
Benzo(k)fluoranthene	1900	0	1700	ug/Kg	89				70 (57)	130 (134)	
Benzo(a)pyrene	1900	0	1900	ug/Kg	100				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	1900	0	2100	ug/Kg	111				70 (40)	130 (129)	
Dibenz(a,h)anthracene	1900	0	2100	ug/Kg	111				70 (43)	130 (123)	
Benzo(g,h,i)perylene	1900	0	1900	ug/Kg	100				70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	1900	0	1700	ug/Kg	89				70 (69)	130 (124)	
1,4-Dioxane	1900	0	1400	ug/Kg	74				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	1900	0	1800	ug/Kg	95				70 (69)	130 (112)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4892

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: P4892-02MSD		**Client Sample ID: WB-310-BOTMSD**						**DataFile: BF140497.D**			
Benzaldehyde	1900	0	210	ug/Kg	11	*	200	*	20 (10)	160 (86)	30 (20)
Phenol	1900	0	1900	ug/Kg	100		12		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	1900	0	2000	ug/Kg	105		16		70 (54)	130 (125)	30 (20)
2-Chlorophenol	1900	0	2000	ug/Kg	105		16		70 (79)	130 (107)	30 (20)
2-Methylphenol	1900	0	1900	ug/Kg	100		17		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	1900	0	1900	ug/Kg	100		17		70 (65)	130 (110)	30 (20)
Acetophenone	1900	0	1900	ug/Kg	100		17		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	1900	0	1900	ug/Kg	100		17		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	1900	0	1800	ug/Kg	95		12		70 (59)	130 (119)	30 (20)
Hexachloroethane	1900	0	1900	ug/Kg	100		12		20 (65)	160 (117)	30 (20)
Nitrobenzene	1900	0	1900	ug/Kg	100		17		70 (70)	130 (119)	30 (20)
Isophorone	1900	0	2000	ug/Kg	105		16		70 (76)	130 (122)	30 (20)
2-Nitrophenol	1900	0	2100	ug/Kg	111		22		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	1900	0	2400	ug/Kg	126		18		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	1900	0	1900	ug/Kg	100		12		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	1900	0	2000	ug/Kg	105		16		70 (72)	130 (118)	30 (20)
Naphthalene	1900	0	1900	ug/Kg	100		17		70 (72)	130 (110)	30 (20)
4-Chloroaniline	1900	0	770	ug/Kg	41	*	19		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	1900	0	1900	ug/Kg	100		17		70 (66)	130 (114)	30 (20)
Caprolactam	1900	0	1900	ug/Kg	100		17		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	1900	0	1900	ug/Kg	100		12		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	1900	0	1900	ug/Kg	100		12		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	3900	0	7800	ug/Kg	200	*	17		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	1900	0	2000	ug/Kg	105		16		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	1900	0	1900	ug/Kg	100		12		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	1900	0	1900	ug/Kg	100		12		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	1900	0	1900	ug/Kg	100		12		70 (67)	130 (118)	30 (20)
2-Nitroaniline	1900	0	2000	ug/Kg	105		16		70 (69)	130 (127)	30 (20)
Dimethylphthalate	1900	0	2000	ug/Kg	105		10		70 (70)	130 (113)	30 (20)
Acenaphthylene	1900	0	2100	ug/Kg	111		16		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	1900	0	1900	ug/Kg	100		12		70 (70)	130 (125)	30 (20)
3-Nitroaniline	1900	0	1300	ug/Kg	68	*	16		70 (30)	130 (99)	30 (20)
Acenaphthene	1900	0	2200	ug/Kg	116		15		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	3900	0	3900	ug/Kg	100		16		20 (10)	160 (155)	30 (20)
4-Nitrophenol	3900	0	3500	ug/Kg	90		13		20 (45)	160 (133)	30 (20)
Dibenzofuran	1900	0	2000	ug/Kg	105		16		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	1900	0	1900	ug/Kg	100		12		70 (55)	130 (128)	30 (20)
Diethylphthalate	1900	0	2000	ug/Kg	105		16		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	1900	0	2000	ug/Kg	105		16		70 (71)	130 (108)	30 (20)
Fluorene	1900	0	1900	ug/Kg	100		12		70 (68)	130 (116)	30 (20)
4-Nitroaniline	1900	0	1800	ug/Kg	95		12		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	1900	0	2200	ug/Kg	116		20		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	1900	0	2100	ug/Kg	111		16		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	1900	0	2100	ug/Kg	111		16		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	1900	0	2100	ug/Kg	111		22		70 (67)	130 (118)	30 (20)
Atrazine	1900	0	2200	ug/Kg	116		15		70 (79)	130 (127)	30 (20)

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4892

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	3900	0	3800	ug/Kg	97		20		20 (47)	160 (128)	30 (20)
Phenanthrene	1900	0	2000	ug/Kg	105		16		70 (52)	130 (128)	30 (20)
Anthracene	1900	0	2100	ug/Kg	111		16		70 (62)	130 (124)	30 (20)
Carbazole	1900	0	1900	ug/Kg	100		17		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	1900	0	2000	ug/Kg	105		16		70 (69)	130 (118)	30 (20)
Fluoranthene	1900	0	1800	ug/Kg	95		18		70 (44)	130 (125)	30 (20)
Pyrene	1900	0	2200	ug/Kg	116		15		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	1900	0	2200	ug/Kg	116		15		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	1900	0	1500	ug/Kg	79		15		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	1900	0	2100	ug/Kg	111		16		70 (71)	130 (114)	30 (20)
Chrysene	1900	0	2000	ug/Kg	105		10		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	1900	0	2100	ug/Kg	111		10		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	1900	0	2300	ug/Kg	121		19		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	1900	0	1900	ug/Kg	100		17		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	1900	0	1800	ug/Kg	95		7		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	1900	0	2200	ug/Kg	116		15		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	1900	0	2400	ug/Kg	126		13		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	1900	0	2400	ug/Kg	126		13		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	1900	0	2200	ug/Kg	116		15		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	1900	0	2000	ug/Kg	105		16		70 (69)	130 (124)	30 (20)
1,4-Dioxane	1900	0	1700	ug/Kg	89		18		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	1900	0	2100	ug/Kg	111		16		70 (69)	130 (112)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140594.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB165086BS	Benzaldehyde	1700	210	ug/Kg	12		*		20 (10)	160 (133)	
	Phenol	1700	1700	ug/Kg	100				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1700	ug/Kg	100				70 (60)	130 (101)	
	2-Chlorophenol	1700	1700	ug/Kg	100				70 (65)	130 (112)	
	2-Methylphenol	1700	1700	ug/Kg	100				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1800	ug/Kg	106				70 (51)	130 (100)	
	Acetophenone	1700	1600	ug/Kg	94				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1700	ug/Kg	100				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1700	ug/Kg	100				70 (63)	130 (95)	
	Hexachloroethane	1700	1600	ug/Kg	94				20 (72)	160 (108)	
	Nitrobenzene	1700	1600	ug/Kg	94				70 (57)	130 (101)	
	Isophorone	1700	1700	ug/Kg	100				70 (59)	130 (99)	
	2-Nitrophenol	1700	1700	ug/Kg	100				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	2200	ug/Kg	129				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1700	ug/Kg	100				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1700	ug/Kg	100				70 (62)	130 (107)	
	Naphthalene	1700	1600	ug/Kg	94				70 (62)	130 (100)	
	4-Chloroaniline	1700	840	ug/Kg	49		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1600	ug/Kg	94				70 (53)	130 (98)	
	Caprolactam	1700	1600	ug/Kg	94				20 (67)	160 (110)	
	4-Chloro-3-methylphenol	1700	1700	ug/Kg	100				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1700	ug/Kg	100				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	6200	ug/Kg	188		*		20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1700	ug/Kg	100				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1600	ug/Kg	94				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1600	ug/Kg	94				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1600	ug/Kg	94				70 (58)	130 (99)	
	2-Nitroaniline	1700	1600	ug/Kg	94				70 (66)	130 (101)	
	Dimethylphthalate	1700	1700	ug/Kg	100				70 (61)	130 (99)	
	Acenaphthylene	1700	1700	ug/Kg	100				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1600	ug/Kg	94				70 (61)	130 (104)	
	3-Nitroaniline	1700	1100	ug/Kg	65		*		70 (28)	130 (100)	
	Acenaphthene	1700	1700	ug/Kg	100				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	2900	ug/Kg	88				20 (37)	160 (128)	
	4-Nitrophenol	3300	3300	ug/Kg	100				20 (48)	160 (119)	
	Dibenzofuran	1700	1600	ug/Kg	94				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1700	ug/Kg	100				70 (60)	130 (106)	
	Diethylphthalate	1700	1700	ug/Kg	100				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1700	ug/Kg	100				70 (58)	130 (98)	
	Fluorene	1700	1600	ug/Kg	94				70 (61)	130 (101)	
	4-Nitroaniline	1700	1600	ug/Kg	94				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	1800	ug/Kg	106				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1700	ug/Kg	100				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				70 (66)	130 (102)	

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140594.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165086BS	Hexachlorobenzene	1700	1600	ug/Kg	94				70 (64)	130 (98)	
	Atrazine	1700	1900	ug/Kg	112				70 (47)	130 (152)	
	Pentachlorophenol	3300	3400	ug/Kg	103				20 (67)	160 (105)	
	Phenanthrene	1700	1700	ug/Kg	100				70 (59)	130 (103)	
	Anthracene	1700	1800	ug/Kg	106				70 (61)	130 (105)	
	Carbazole	1700	1700	ug/Kg	100				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1700	ug/Kg	100				70 (58)	130 (104)	
	Fluoranthene	1700	1700	ug/Kg	100				70 (57)	130 (107)	
	Pyrene	1700	1600	ug/Kg	94				70 (59)	130 (103)	
	Butylbenzylphthalate	1700	1700	ug/Kg	100				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	1100	ug/Kg	65		*		70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1700	ug/Kg	100				70 (60)	130 (102)	
	Chrysene	1700	1700	ug/Kg	100				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	1800	ug/Kg	106				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	1900	ug/Kg	112				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1700	ug/Kg	100				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1700	ug/Kg	100				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1800	ug/Kg	106				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1700	ug/Kg	100				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1700	ug/Kg	100				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				70 (70)	130 (108)	
	1,2,4,5-Tetrachlorobenzene	1700	1600	ug/Kg	94				70 (53)	130 (101)	
	1,4-Dioxane	1700	1500	ug/Kg	88				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1800	ug/Kg	106				70 (59)	130 (108)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140598.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB165152BS	Benzaldehyde	50	38.8	ug/L	78				20 (10)	160 (162)	
	Phenol	50	52.3	ug/L	105				20 (66)	160 (118)	
	bis(2-Chloroethyl)ether	50	52.0	ug/L	104				70 (62)	130 (103)	
	2-Chlorophenol	50	52.9	ug/L	106				70 (70)	130 (117)	
	2-Methylphenol	50	52.0	ug/L	104				70 (69)	130 (109)	
	2,2-oxybis(1-Chloropropane)	50	54.2	ug/L	108				70 (65)	130 (100)	
	Acetophenone	50	48.2	ug/L	96				70 (60)	130 (104)	
	3+4-Methylphenols	50	52.1	ug/L	104				20 (67)	160 (106)	
	N-Nitroso-di-n-propylamine	50	52.0	ug/L	104				70 (57)	130 (107)	
	Hexachloroethane	50	49.8	ug/L	100				20 (76)	160 (118)	
	Nitrobenzene	50	46.7	ug/L	93				70 (58)	130 (106)	
	Isophorone	50	51.3	ug/L	103				70 (61)	130 (102)	
	2-Nitrophenol	50	52.1	ug/L	104				70 (70)	130 (115)	
	2,4-Dimethylphenol	50	64.7	ug/L	129				70 (42)	130 (142)	
	bis(2-Chloroethoxy)methane	50	50.9	ug/L	102				70 (58)	130 (109)	
	2,4-Dichlorophenol	50	51.4	ug/L	103				70 (66)	130 (115)	
	Naphthalene	50	48.8	ug/L	98				70 (64)	130 (107)	
	4-Chloroaniline	50	22.3	ug/L	45		*		70 (10)	130 (85)	
	Hexachlorobutadiene	50	48.2	ug/L	96				70 (69)	130 (101)	
	Caprolactam	50	51.5	ug/L	103				20 (58)	160 (128)	
	4-Chloro-3-methylphenol	50	51.3	ug/L	103				70 (65)	130 (114)	
	2-Methylnaphthalene	50	50.8	ug/L	102				70 (64)	130 (107)	
	Hexachlorocyclopentadiene	100	190	ug/L	190		*		20 (36)	160 (160)	
	2,4,6-Trichlorophenol	50	50.9	ug/L	102				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	50.0	ug/L	100				70 (70)	130 (106)	
	1,1-Biphenyl	50	49.4	ug/L	99				70 (72)	130 (98)	
	2-Chloronaphthalene	50	48.8	ug/L	98				70 (59)	130 (106)	
	2-Nitroaniline	50	51.1	ug/L	102				70 (73)	130 (114)	
	Dimethylphthalate	50	51.3	ug/L	103				70 (64)	130 (103)	
	Acenaphthylene	50	53.3	ug/L	107				70 (79)	130 (103)	
	2,6-Dinitrotoluene	50	49.3	ug/L	99				70 (64)	130 (110)	
	3-Nitroaniline	50	32.1	ug/L	64		*		70 (28)	130 (100)	
	Acenaphthene	50	51.2	ug/L	102				70 (59)	130 (113)	
	2,4-Dinitrophenol	100	90.8	ug/L	91				20 (36)	160 (166)	
	4-Nitrophenol	100	100	ug/L	100				20 (45)	160 (147)	
	Dibenzofuran	50	50.3	ug/L	101				70 (65)	130 (106)	
	2,4-Dinitrotoluene	50	49.7	ug/L	99				70 (60)	130 (115)	
	Diethylphthalate	50	50.9	ug/L	102				70 (63)	130 (105)	
	4-Chlorophenyl-phenylether	50	49.5	ug/L	99				70 (61)	130 (104)	
	Fluorene	50	49.6	ug/L	99				70 (64)	130 (107)	
	4-Nitroaniline	50	49.3	ug/L	99				70 (55)	130 (125)	
	4,6-Dinitro-2-methylphenol	50	55.9	ug/L	112				70 (62)	130 (132)	
	N-Nitrosodiphenylamine	50	51.0	ug/L	102				70 (61)	130 (109)	
	4-Bromophenyl-phenylether	50	50.7	ug/L	101				70 (73)	130 (103)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140598.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165152BS	Hexachlorobenzene	50	50.6	ug/L	101				70 (73)	130 (106)	
	Atrazine	50	61.4	ug/L	123				70 (76)	130 (120)	
	Pentachlorophenol	100	100	ug/L	100				20 (47)	160 (114)	
	Phenanthrene	50	51.7	ug/L	103				70 (62)	130 (109)	
	Anthracene	50	54.0	ug/L	108				70 (65)	130 (110)	
	Carbazole	50	50.6	ug/L	101				70 (62)	130 (106)	
	Di-n-butylphthalate	50	51.5	ug/L	103				70 (64)	130 (106)	
	Fluoranthene	50	50.8	ug/L	102				70 (64)	130 (110)	
	Pyrene	50	50.7	ug/L	101				70 (71)	130 (103)	
	Butylbenzylphthalate	50	53.9	ug/L	108				70 (61)	130 (105)	
	3,3-Dichlorobenzidine	50	33.1	ug/L	66		*		70 (43)	130 (108)	
	Benzo(a)anthracene	50	53.6	ug/L	107				70 (62)	130 (107)	
	Chrysene	50	51.9	ug/L	104				70 (61)	130 (108)	
	bis(2-Ethylhexyl)phthalate	50	54.9	ug/L	110				70 (59)	130 (110)	
	Di-n-octyl phthalate	50	57.4	ug/L	115				70 (52)	130 (139)	
	Benzo(b)fluoranthene	50	50.6	ug/L	101				70 (77)	130 (113)	
	Benzo(k)fluoranthene	50	54.3	ug/L	109				70 (77)	130 (105)	
	Benzo(a)pyrene	50	56.3	ug/L	113				70 (72)	130 (131)	
	Indeno(1,2,3-cd)pyrene	50	50.9	ug/L	102				70 (72)	130 (105)	
	Dibenz(a,h)anthracene	50	50.8	ug/L	102				70 (78)	130 (115)	
	Benzo(g,h,i)perylene	50	46.1	ug/L	92				70 (75)	130 (118)	
	1,2,4,5-Tetrachlorobenzene	50	49.0	ug/L	98				70 (72)	130 (101)	
	1,4-Dioxane	50	46.3	ug/L	93				20 (38)	160 (125)	
	2,3,4,6-Tetrachlorophenol	50	55.9	ug/L	112				70 (63)	130 (116)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140600.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB165152BSD	Benzaldehyde	50	34.3	ug/L	69	12			20 (10)	160 (162)	20 (20)
	Phenol	50	44.9	ug/L	90	15			20 (66)	160 (118)	20 (20)
	bis(2-Chloroethyl)ether	50	44.2	ug/L	88	16			70 (62)	130 (103)	20 (20)
	2-Chlorophenol	50	45.0	ug/L	90	16			70 (70)	130 (117)	20 (20)
	2-Methylphenol	50	44.5	ug/L	89	16			70 (69)	130 (109)	20 (20)
	2,2-oxybis(1-Chloropropane)	50	46.7	ug/L	93	15			70 (65)	130 (100)	20 (20)
	Acetophenone	50	41.4	ug/L	83	15			70 (60)	130 (104)	20 (20)
	3+4-Methylphenols	50	44.4	ug/L	89	16			20 (67)	160 (106)	20 (20)
	N-Nitroso-di-n-propylamine	50	44.3	ug/L	89	16			70 (57)	130 (107)	20 (20)
	Hexachloroethane	50	42.6	ug/L	85	16			20 (76)	160 (118)	20 (20)
	Nitrobenzene	50	40.9	ug/L	82	13			70 (58)	130 (106)	20 (20)
	Isophorone	50	44.5	ug/L	89	14			70 (61)	130 (102)	20 (20)
	2-Nitrophenol	50	45.1	ug/L	90	14			70 (70)	130 (115)	20 (20)
	2,4-Dimethylphenol	50	55.3	ug/L	111	16			70 (42)	130 (142)	20 (20)
	bis(2-Chloroethoxy)methane	50	44.5	ug/L	89	13			70 (58)	130 (109)	20 (20)
	2,4-Dichlorophenol	50	45.0	ug/L	90	13			70 (66)	130 (115)	20 (20)
	Naphthalene	50	42.5	ug/L	85	14			70 (64)	130 (107)	20 (20)
	4-Chloroaniline	50	21.5	ug/L	43	4	*		70 (10)	130 (85)	20 (20)
	Hexachlorobutadiene	50	41.5	ug/L	83	15			70 (69)	130 (101)	20 (20)
	Caprolactam	50	44.0	ug/L	88	16			20 (58)	160 (128)	20 (20)
	4-Chloro-3-methylphenol	50	44.0	ug/L	88	15			70 (65)	130 (114)	20 (20)
	2-Methylnaphthalene	50	43.9	ug/L	88	15			70 (64)	130 (107)	20 (20)
	Hexachlorocyclopentadiene	100	160	ug/L	160	17			20 (36)	160 (160)	20 (20)
	2,4,6-Trichlorophenol	50	44.5	ug/L	89	13			70 (61)	130 (110)	20 (20)
	2,4,5-Trichlorophenol	50	43.2	ug/L	86	15			70 (70)	130 (106)	20 (20)
	1,1-Biphenyl	50	43.6	ug/L	87	12			70 (72)	130 (98)	20 (20)
	2-Chloronaphthalene	50	42.6	ug/L	85	14			70 (59)	130 (106)	20 (20)
	2-Nitroaniline	50	44.6	ug/L	89	14			70 (73)	130 (114)	20 (20)
	Dimethylphthalate	50	45.3	ug/L	91	12			70 (64)	130 (103)	20 (20)
	Acenaphthylene	50	46.5	ug/L	93	14			70 (79)	130 (103)	20 (20)
	2,6-Dinitrotoluene	50	43.1	ug/L	86	13			70 (64)	130 (110)	20 (20)
	3-Nitroaniline	50	28.8	ug/L	58	11	*		70 (28)	130 (100)	20 (20)
	Acenaphthene	50	44.7	ug/L	89	14			70 (59)	130 (113)	20 (20)
	2,4-Dinitrophenol	100	77.0	ug/L	77	16			20 (36)	160 (166)	20 (20)
	4-Nitrophenol	100	87.1	ug/L	87	14			20 (45)	160 (147)	20 (20)
	Dibenzofuran	50	43.9	ug/L	88	14			70 (65)	130 (106)	20 (20)
	2,4-Dinitrotoluene	50	43.3	ug/L	87	14			70 (60)	130 (115)	20 (20)
	Diethylphthalate	50	44.3	ug/L	89	14			70 (63)	130 (105)	20 (20)
	4-Chlorophenyl-phenylether	50	43.3	ug/L	87	13			70 (61)	130 (104)	20 (20)
	Fluorene	50	43.5	ug/L	87	13			70 (64)	130 (107)	20 (20)
	4-Nitroaniline	50	43.1	ug/L	86	13			70 (55)	130 (125)	20 (20)
	4,6-Dinitro-2-methylphenol	50	47.5	ug/L	95	16			70 (62)	130 (132)	20 (20)
	N-Nitrosodiphenylamine	50	44.6	ug/L	89	13			70 (61)	130 (109)	20 (20)
	4-Bromophenyl-phenylether	50	43.8	ug/L	88	15			70 (73)	130 (103)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4892

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140600.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB165152BSD	Hexachlorobenzene	50	43.1	ug/L	86	16			70 (73)	130 (106)	20 (20)
	Atrazine	50	52.5	ug/L	105	16			70 (76)	130 (120)	20 (20)
	Pentachlorophenol	100	87.2	ug/L	87	14			20 (47)	160 (114)	20 (20)
	Phenanthrene	50	44.9	ug/L	90	14			70 (62)	130 (109)	20 (20)
	Anthracene	50	46.7	ug/L	93	14			70 (65)	130 (110)	20 (20)
	Carbazole	50	44.2	ug/L	88	14			70 (62)	130 (106)	20 (20)
	Di-n-butylphthalate	50	45.0	ug/L	90	13			70 (64)	130 (106)	20 (20)
	Fluoranthene	50	44.5	ug/L	89	13			70 (64)	130 (110)	20 (20)
	Pyrene	50	43.9	ug/L	88	14			70 (71)	130 (103)	20 (20)
	Butylbenzylphthalate	50	46.8	ug/L	94	14			70 (61)	130 (105)	20 (20)
	3,3-Dichlorobenzidine	50	29.2	ug/L	58	13	*		70 (43)	130 (108)	20 (20)
	Benzo(a)anthracene	50	46.9	ug/L	94	13			70 (62)	130 (107)	20 (20)
	Chrysene	50	44.7	ug/L	89	15			70 (61)	130 (108)	20 (20)
	bis(2-Ethylhexyl)phthalate	50	47.7	ug/L	95	14			70 (59)	130 (110)	20 (20)
	Di-n-octyl phthalate	50	50.0	ug/L	100	14			70 (52)	130 (139)	20 (20)
	Benzo(b)fluoranthene	50	42.4	ug/L	85	18			70 (77)	130 (113)	20 (20)
	Benzo(k)fluoranthene	50	48.3	ug/L	97	12			70 (77)	130 (105)	20 (20)
	Benzo(a)pyrene	50	49.0	ug/L	98	14			70 (72)	130 (131)	20 (20)
	Indeno(1,2,3-cd)pyrene	50	43.2	ug/L	86	16			70 (72)	130 (105)	20 (20)
	Dibenz(a,h)anthracene	50	43.3	ug/L	87	16			70 (78)	130 (115)	20 (20)
	Benzo(g,h,i)perylene	50	38.6	ug/L	77	18			70 (75)	130 (118)	20 (20)
	1,2,4,5-Tetrachlorobenzene	50	43.2	ug/L	86	13			70 (72)	130 (101)	20 (20)
	1,4-Dioxane	50	38.8	ug/L	78	18			20 (38)	160 (125)	20 (20)
	2,3,4,6-Tetrachlorophenol	50	48.3	ug/L	97	15			70 (63)	130 (116)	20 (20)

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165086BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab File ID: BF140502.D Lab Sample ID: PB165086BL

Instrument ID: BNA_F Date Extracted: 11/19/2024

Matrix: (soil/water) SOIL Date Analyzed: 11/20/2024

Level: (low/med) LOW Time Analyzed: 16:25

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB165086BS	PB165086BS	BF140594.D	11/25/2024
WB-310-TOP	P4892-01	BF140510.D	11/20/2024
WB-310-BOT	P4892-02	BF140495.D	11/20/2024
WB-310-BOTMS	P4892-02MS	BF140496.D	11/20/2024
WB-310-BOTMSD	P4892-02MSD	BF140497.D	11/20/2024

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165152BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

Lab File ID: BF140601.D Lab Sample ID: PB165152BL

Instrument ID: BNA_F Date Extracted: 11/20/2024

Matrix: (soil/water) Water Date Analyzed: 11/25/2024

Level: (low/med) LOW Time Analyzed: 14:28

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB165152BS	PB165152BS	BF140598.D	11/25/2024
PB165152BSD	PB165152BSD	BF140600.D	11/25/2024
WB-310-SW	P4892-04	BF140607.D	11/25/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4892 SDG NO.: P4892

Lab File ID: BF140331.D DFTPP Injection Date: 11/13/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	36.9
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	38
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	48.6
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	6.4
275	10.0 - 60.0% of mass 198	28.3
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.7 (18.8) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF140332.D	11/13/2024	09:01
SSTDICC005	SSTDICC005	BF140333.D	11/13/2024	09:27
SSTDICC010	SSTDICC010	BF140334.D	11/13/2024	09:53
SSTDICC020	SSTDICC020	BF140335.D	11/13/2024	10:29
SSTDICC050	SSTDICC050	BF140337.D	11/13/2024	11:21
SSTDICC060	SSTDICC060	BF140338.D	11/13/2024	11:47
SSTDICC080	SSTDICC080	BF140339.D	11/13/2024	12:13
SSTDICCC040	SSTDICCC040	BF140340.D	11/13/2024	12:48

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4892 SDG NO.: P4892

Lab File ID: BF140487.D DFTPP Injection Date: 11/20/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:04

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.1
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	35.9
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	48.2
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	6.8
275	10.0 - 60.0% of mass 198	29
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.3 (18.3) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140488.D	11/20/2024	09:31
WB-310-BOT	P4892-02	BF140495.D	11/20/2024	12:42
WB-310-BOTMS	P4892-02MS	BF140496.D	11/20/2024	13:08
WB-310-BOTMSD	P4892-02MSD	BF140497.D	11/20/2024	13:35

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4892 SDG NO.: P4892

Lab File ID: BF140500.D DFTPP Injection Date: 11/20/2024

Instrument ID: BNA_F DFTPP Injection Time: 15:33

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	37.7
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	38.4
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	50
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	28.1
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	14.2
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.9 (18.3) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140501.D	11/20/2024	15:59
PB165086BL	PB165086BL	BF140502.D	11/20/2024	16:25
WB-310-TOP	P4892-01	BF140510.D	11/20/2024	20:02

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4892 SDG NO.: P4892

Lab File ID: BF140526.D DFTPP Injection Date: 11/21/2024

Instrument ID: BNA_F DFTPP Injection Time: 10:17

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.3
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	35.5
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	48
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	29.2
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.1 (18.1) 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	BF140528.D	11/21/2024	11:13
SSTDICC005	SSTDICC005	BF140529.D	11/21/2024	11:39
SSTDICC010	SSTDICC010	BF140530.D	11/21/2024	12:05
SSTDICC020	SSTDICC020	BF140531.D	11/21/2024	12:32
SSTDICCC040	SSTDICCC040	BF140532.D	11/21/2024	12:58
SSTDICC050	SSTDICC050	BF140533.D	11/21/2024	13:25
SSTDICC060	SSTDICC060	BF140534.D	11/21/2024	13:51
SSTDICC080	SSTDICC080	BF140535.D	11/21/2024	14:18

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4892 SDG NO.: P4892

Lab File ID: BF140589.D DFTPP Injection Date: 11/25/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:07

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.8
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	36.7
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	48.2
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	6.4
275	10.0 - 60.0% of mass 198	28.6
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.5 (18.9) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140590.D	11/25/2024	09:33
PB165086BS	PB165086BS	BF140594.D	11/25/2024	11:17
PB165152BS	PB165152BS	BF140598.D	11/25/2024	13:02
PB165152BSD	PB165152BSD	BF140600.D	11/25/2024	13:54
PB165152BL	PB165152BL	BF140601.D	11/25/2024	14:28

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4892 SDG NO.: P4892

Lab File ID: BF140603.D DFTPP Injection Date: 11/25/2024

Instrument ID: BNA_F DFTPP Injection Time: 15:23

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.9
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	34.8
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	46.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	28
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	15.3
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.4 (18.4) 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	BF140604.D	11/25/2024	15:49
WB-310-SW	P4892-04	BF140607.D	11/25/2024	17:15

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/20/2024

Lab File ID: BF140488.D Time Analyzed: 09:31

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	132364	6.875	490485	8.16	273054	9.92
	UPPER LIMIT	264728	7.375	980970	8.657	546108	10.416
	LOWER LIMIT	66182	6.375	245243	7.657	136527	9.416
	EPA SAMPLE NO.						
01	WB-310-BOT	111857	6.88	425828	8.15	234373	9.91
02	WB-310-BOTMS	124435	6.88	465260	8.16	249636	9.91
03	WB-310-BOTMSD	115233	6.88	427479	8.16	231375	9.91

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.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/20/2024

Lab File ID: BF140488.D Time Analyzed: 09:31

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	510213	11.404	268548	14.051	246006	15.539
	UPPER LIMIT	1020430	11.904	537096	14.551	492012	16.039
	LOWER LIMIT	255107	10.904	134274	13.551	123003	15.039
	EPA SAMPLE NO.						
01	WB-310-BOT	439035	11.40	271644	14.05	222745	15.55
02	WB-310-BOTMS	454496	11.40	229017	14.06	239777	15.57
03	WB-310-BOTMSD	409075	11.40	206876	14.05	225913	15.54

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.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/20/2024

Lab File ID: BF140501.D Time Analyzed: 15:59

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	136554	6.875	508396	8.16	278192	9.91
	UPPER LIMIT	273108	7.375	1016790	8.657	556384	10.41
	LOWER LIMIT	68277	6.375	254198	7.657	139096	9.41
	EPA SAMPLE NO.						
01	WB-310-TOP	109793	6.88	377655	8.15	180123	9.90
02	PB165086BL	127581	6.87	485914	8.15	273616	9.90

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

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* 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.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/20/2024

Lab File ID: BF140501.D Time Analyzed: 15:59

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	526085	11.398	294226	14.045	277583	15.533
	UPPER LIMIT	1052170	11.898	588452	14.545	555166	16.033
	LOWER LIMIT	263043	10.898	147113	13.545	138792	15.033
	EPA SAMPLE NO.						
01	WB-310-TOP	278778	11.40	208770	14.05	217412	15.53
02	PB165086BL	524410	11.40	336229	14.05	269895	15.54

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.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/25/2024

Lab File ID: BF140590.D Time Analyzed: 09:33

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	105131	6.869	390145	8.15	212616	9.91
	UPPER LIMIT	210262	7.369	780290	8.651	425232	10.41
	LOWER LIMIT	52565.5	6.369	195073	7.651	106308	9.41
	EPA SAMPLE NO.						
01	PB165086BS	95461	6.87	360433	8.15	204239	9.91
02	PB165152BL	105039	6.87	390263	8.15	219360	9.90
03	PB165152BS	99301	6.87	382645	8.15	214473	9.91
04	PB165152BSD	109034	6.87	414003	8.15	229665	9.91

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.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/25/2024

Lab File ID: BF140590.D Time Analyzed: 09:33

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	399326	11.398	244297	14.051	211888	15.545
	UPPER LIMIT	798652	11.898	488594	14.551	423776	16.045
	LOWER LIMIT	199663	10.898	122149	13.551	105944	15.045
	EPA SAMPLE NO.						
01	PB165086BS	384268	11.40	226332	14.05	183684	15.55
02	PB165152BL	422337	11.40	238471	14.06	201118	15.58
03	PB165152BS	401581	11.40	233962	14.05	195258	15.56
04	PB165152BSD	432290	11.40	254104	14.05	215389	15.56

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.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/25/2024

Lab File ID: BF140604.D Time Analyzed: 15:49

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	106607	6.869	393427	8.15	218835	9.91
	UPPER LIMIT	213214	7.369	786854	8.651	437670	10.41
	LOWER LIMIT	53303.5	6.369	196714	7.651	109418	9.41
	EPA SAMPLE NO.						
01	WB-310-SW	64480	6.87	239780	8.15	131138	9.90

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.: P4892 SAS No.: P4892 SDG NO.: P4892

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/25/2024

Lab File ID: BF140604.D Time Analyzed: 15:49

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	396344	11.398	217927	14.051	192376	15.551
	UPPER LIMIT	792688	11.898	435854	14.551	384752	16.051
	LOWER LIMIT	198172	10.898	108964	13.551	96188	15.051
	EPA SAMPLE NO.						
01	WB-310-SW	245059	11.39	178129	14.05	139529	15.55

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: **BF140502.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165086BL	SDG No.:	P4892
Lab Sample ID:	PB165086BL	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
BF140502.D	1	11/19/24 09:00	11/20/24 16:25	PB165086

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	82.9	U	82.9	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	83.7	U	83.7	170	ug/Kg
95-57-8	2-Chlorophenol	83.5	U	83.5	170	ug/Kg
95-48-7	2-Methylphenol	80.6	U	80.6	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	90.9	U	90.9	170	ug/Kg
98-86-2	Acetophenone	86.9	U	86.9	170	ug/Kg
65794-96-9	3+4-Methylphenols	79.8	U	79.8	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	40.3	U	40.3	80.0	ug/Kg
67-72-1	Hexachloroethane	83.0	U	83.0	170	ug/Kg
98-95-3	Nitrobenzene	90.8	U	90.8	170	ug/Kg
78-59-1	Isophorone	84.6	U	84.6	170	ug/Kg
88-75-5	2-Nitrophenol	94.5	U	94.5	170	ug/Kg
105-67-9	2,4-Dimethylphenol	93.2	U	93.2	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	85.8	U	85.8	170	ug/Kg
120-83-2	2,4-Dichlorophenol	75.5	U	75.5	170	ug/Kg
91-20-3	Naphthalene	82.6	U	82.6	170	ug/Kg
106-47-8	4-Chloroaniline	82.6	U	82.6	170	ug/Kg
87-68-3	Hexachlorobutadiene	83.3	U	83.3	170	ug/Kg
105-60-2	Caprolactam	86.8	U	86.8	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	77.5	U	77.5	170	ug/Kg
91-57-6	2-Methylnaphthalene	82.5	U	82.5	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	87.4	U	87.4	170	ug/Kg
91-58-7	2-Chloronaphthalene	83.3	U	83.3	170	ug/Kg
88-74-4	2-Nitroaniline	95.0	U	95.0	170	ug/Kg
131-11-3	Dimethylphthalate	81.7	U	81.7	170	ug/Kg

Raw Data: **BF140502.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 2024	Date Received:	
Client Sample ID:	PB165086BL	SDG No.:	P4892
Lab Sample ID:	PB165086BL	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
BF140502.D	1	11/19/24 09:00	11/20/24 16:25	PB165086

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

Raw Data: **BF140502.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 2024	Date Received:	
Client Sample ID:	PB165086BL	SDG No.:	P4892
Lab Sample ID:	PB165086BL	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
BF140502.D	1	11/19/24 09:00	11/20/24 16:25	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	82.6	U	82.6	170	ug/Kg
50-32-8	Benzo(a)pyrene	93.0	U	93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.1	U	78.1	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	81.2	U	81.2	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.1	U	80.1	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	86.8	U	86.8	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	124		30 (18) - 130 (112)	83%	SPK: 150
13127-88-3	Phenol-d6	120		30 (15) - 130 (107)	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	86.1		30 (18) - 130 (107)	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.8		30 (20) - 130 (109)	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	128		30 (10) - 130 (116)	86%	SPK: 150
1718-51-0	Terphenyl-d14	85.6		30 (10) - 130 (105)	86%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	128000	6.869			
1146-65-2	Naphthalene-d8	486000	8.151			
15067-26-2	Acenaphthene-d10	274000	9.904			
1517-22-2	Phenanthrene-d10	524000	11.398			
1719-03-5	Chrysene-d12	336000	14.045			
1520-96-3	Perylene-d12	270000	15.539			

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 2024	Date Received:	
Client Sample ID:	PB165152BL	SDG No.:	P4892
Lab Sample ID:	PB165152BL	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
BF140601.D	1	11/20/24 08:29	11/25/24 14:28	PB165152

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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165152BL	SDG No.:	P4892
Lab Sample ID:	PB165152BL	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
BF140601.D	1	11/20/24 08:29	11/25/24 14:28	PB165152

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: **BF140601.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 2024	Date Received:	
Client Sample ID:	PB165152BL	SDG No.:	P4892
Lab Sample ID:	PB165152BL	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
BF140601.D	1	11/20/24 08:29	11/25/24 14:28	PB165152

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	136		15 (10) - 110 (139)	91%	SPK: 150
13127-88-3	Phenol-d6	131		15 (10) - 110 (134)	87%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.2		30 (49) - 130 (133)	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.6		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	133		15 (44) - 110 (137)	89%	SPK: 150
1718-51-0	Terphenyl-d14	98.2		30 (48) - 130 (125)	98%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	105000	6.869			
1146-65-2	Naphthalene-d8	390000	8.145			
15067-26-2	Acenaphthene-d10	219000	9.904			
1517-22-2	Phenanthrene-d10	422000	11.398			
1719-03-5	Chrysene-d12	238000	14.057			
1520-96-3	Perylene-d12	201000	15.58			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	2.10	J		2.24	ug/L

Raw Data: **BF140601.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 2024	Date Received:	
Client Sample ID:	PB165152BL	SDG No.:	P4892
Lab Sample ID:	PB165152BL	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
BF140601.D	1	11/20/24 08:29	11/25/24 14:28	PB165152

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: **BF140594.D**

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

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165086BS	SDG No.:	P4892
Lab Sample ID:	PB165086BS	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
BF140594.D	1	11/19/24 09:00	11/25/24 11:17	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	J	180	330	ug/Kg
108-95-2	Phenol	1700		82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		83.6	170	ug/Kg
95-57-8	2-Chlorophenol	1700		83.4	170	ug/Kg
95-48-7	2-Methylphenol	1700		80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1800		90.8	170	ug/Kg
98-86-2	Acetophenone	1600		86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	1700		79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1700		40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	1600		82.9	170	ug/Kg
98-95-3	Nitrobenzene	1600		90.7	170	ug/Kg
78-59-1	Isophorone	1700		84.5	170	ug/Kg
88-75-5	2-Nitrophenol	1700		94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	2200		93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1700		85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1700		75.4	170	ug/Kg
91-20-3	Naphthalene	1600		82.5	170	ug/Kg
106-47-8	4-Chloroaniline	840		82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	1600		83.2	170	ug/Kg
105-60-2	Caprolactam	1600		86.7	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1700		77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1700		82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6200	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		71.4	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1600		74.0	170	ug/Kg
92-52-4	1,1-Biphenyl	1600		87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	1600		83.2	170	ug/Kg
88-74-4	2-Nitroaniline	1600		94.9	170	ug/Kg
131-11-3	Dimethylphthalate	1700		81.6	170	ug/Kg

Raw Data: **BF140594.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 2024	Date Received:	
Client Sample ID:	PB165086BS	SDG No.:	P4892
Lab Sample ID:	PB165086BS	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
BF140594.D	1	11/19/24 09:00	11/25/24 11:17	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1700		86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.1	170	ug/Kg
99-09-2	3-Nitroaniline	1100		89.1	170	ug/Kg
83-32-9	Acenaphthene	1700		81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	2900	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3300	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1600		84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1700		86.1	170	ug/Kg
84-66-2	Diethylphthalate	1700		80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1700		85.5	170	ug/Kg
86-73-7	Fluorene	1600		85.4	170	ug/Kg
100-01-6	4-Nitroaniline	1600		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1700		81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1600		78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1600		84.9	170	ug/Kg
1912-24-9	Atrazine	1900		91.3	170	ug/Kg
87-86-5	Pentachlorophenol	3400	E	77.2	330	ug/Kg
85-01-8	Phenanthrene	1700		83.9	170	ug/Kg
120-12-7	Anthracene	1800		84.3	170	ug/Kg
86-74-8	Carbazole	1700		80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1700		84.2	170	ug/Kg
206-44-0	Fluoranthene	1700		81.6	170	ug/Kg
129-00-0	Pyrene	1600		82.9	170	ug/Kg
85-68-7	Butylbenzylphthalate	1700		96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1100		98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	1700		80.6	170	ug/Kg
218-01-9	Chrysene	1700		79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1800		90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1900		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1700		81.0	170	ug/Kg

Raw Data: **BF140594.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 2024	Date Received:	
Client Sample ID:	PB165086BS	SDG No.:	P4892
Lab Sample ID:	PB165086BS	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
BF140594.D	1	11/19/24 09:00	11/25/24 11:17	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	1800		92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1700		78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1700		81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1600		86.7	170	ug/Kg
123-91-1	1,4-Dioxane	1500		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	141		30 (18) - 130 (112)	94%	SPK: 150
13127-88-3	Phenol-d6	139		30 (15) - 130 (107)	93%	SPK: 150
4165-60-0	Nitrobenzene-d5	95.8		30 (18) - 130 (107)	96%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.3		30 (20) - 130 (109)	93%	SPK: 100
118-79-6	2,4,6-Tribromophenol	143		30 (10) - 130 (116)	95%	SPK: 150
1718-51-0	Terphenyl-d14	96.5		30 (10) - 130 (105)	96%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	95500	6.869			
1146-65-2	Naphthalene-d8	360000	8.151			
15067-26-2	Acenaphthene-d10	204000	9.91			
1517-22-2	Phenanthrene-d10	384000	11.398			
1719-03-5	Chrysene-d12	226000	14.051			
1520-96-3	Perylene-d12	184000	15.551			

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: **BF140598.D**

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

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165152BS	SDG No.:	P4892
Lab Sample ID:	PB165152BS	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
BF140598.D	1	11/20/24 08:29	11/25/24 13:02	PB165152

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	38.8		4.00	10.0	ug/L
108-95-2	Phenol	52.3		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	52.0		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	52.9		0.71	5.00	ug/L
95-48-7	2-Methylphenol	52.0		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	54.2		1.40	5.00	ug/L
98-86-2	Acetophenone	48.2		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	52.1		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	52.0		1.50	2.50	ug/L
67-72-1	Hexachloroethane	49.8		1.00	5.00	ug/L
98-95-3	Nitrobenzene	46.7		1.30	5.00	ug/L
78-59-1	Isophorone	51.3		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	52.1		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	64.7		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	50.9		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	51.4		0.88	5.00	ug/L
91-20-3	Naphthalene	48.8		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	22.3		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	48.2		1.30	5.00	ug/L
105-60-2	Caprolactam	51.5		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	51.3		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	50.8		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	190	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	50.9		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	50.0		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	49.4		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	48.8		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	51.1		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	51.3		0.93	5.00	ug/L

Raw Data: **BF140598.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 2024	Date Received:	
Client Sample ID:	PB165152BS	SDG No.:	P4892
Lab Sample ID:	PB165152BS	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
BF140598.D	1	11/20/24 08:29	11/25/24 13:02	PB165152

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	53.3		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	49.3		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	32.1		1.40	5.00	ug/L
83-32-9	Acenaphthene	51.2		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	90.8	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	100	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	50.3		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	49.7		1.50	5.00	ug/L
84-66-2	Diethylphthalate	50.9		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	49.5		0.98	5.00	ug/L
86-73-7	Fluorene	49.6		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	49.3		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	55.9		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	51.0		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	50.7		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	50.6		1.10	5.00	ug/L
1912-24-9	Atrazine	61.4		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	100	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	51.7		0.89	5.00	ug/L
120-12-7	Anthracene	54.0		1.10	5.00	ug/L
86-74-8	Carbazole	50.6		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	51.5		1.50	5.00	ug/L
206-44-0	Fluoranthene	50.8		1.30	5.00	ug/L
129-00-0	Pyrene	50.7		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	53.9		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	33.1		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	53.6		0.94	5.00	ug/L
218-01-9	Chrysene	51.9		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	54.9		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	57.4		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	50.6		1.10	5.00	ug/L

Raw Data: **BF140598.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 2024	Date Received:	
Client Sample ID:	PB165152BS	SDG No.:	P4892
Lab Sample ID:	PB165152BS	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
BF140598.D	1	11/20/24 08:29	11/25/24 13:02	PB165152

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	54.3		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	56.3		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	50.9		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	50.8		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	46.1		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	49.0		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	46.3		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	55.9		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	145		15 (10) - 110 (139)	97%	SPK: 150
13127-88-3	Phenol-d6	143		15 (10) - 110 (134)	95%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.5		30 (49) - 130 (133)	97%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.3		30 (52) - 130 (132)	96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	149		15 (44) - 110 (137)	99%	SPK: 150
1718-51-0	Terphenyl-d14	101		30 (48) - 130 (125)	101%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	99300	6.869			
1146-65-2	Naphthalene-d8	383000	8.151			
15067-26-2	Acenaphthene-d10	214000	9.91			
1517-22-2	Phenanthrene-d10	402000	11.398			
1719-03-5	Chrysene-d12	234000	14.051			
1520-96-3	Perylene-d12	195000	15.557			

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: **BF140600.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 2024	Date Received:	
Client Sample ID:	PB165152BSD	SDG No.:	P4892
Lab Sample ID:	PB165152BSD	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
BF140600.D	1	11/20/24 08:29	11/25/24 13:54	PB165152

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	34.3		4.00	10.0	ug/L
108-95-2	Phenol	44.9		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	44.2		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	45.0		0.71	5.00	ug/L
95-48-7	2-Methylphenol	44.5		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	46.7		1.40	5.00	ug/L
98-86-2	Acetophenone	41.4		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	44.4		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	44.3		1.50	2.50	ug/L
67-72-1	Hexachloroethane	42.6		1.00	5.00	ug/L
98-95-3	Nitrobenzene	40.9		1.30	5.00	ug/L
78-59-1	Isophorone	44.5		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	45.1		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	55.3		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	44.5		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	45.0		0.88	5.00	ug/L
91-20-3	Naphthalene	42.5		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	21.5		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	41.5		1.30	5.00	ug/L
105-60-2	Caprolactam	44.0		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	44.0		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	43.9		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	44.5		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	43.2		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	43.6		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	42.6		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	44.6		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	45.3		0.93	5.00	ug/L

Raw Data: **BF140600.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB165152BSD	SDG No.:	P4892
Lab Sample ID:	PB165152BSD	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
BF140600.D	1	11/20/24 08:29	11/25/24 13:54	PB165152

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	46.5		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	43.1		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	28.8		1.40	5.00	ug/L
83-32-9	Acenaphthene	44.7		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	77.0		6.40	10.0	ug/L
100-02-7	4-Nitrophenol	87.1	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	43.9		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	43.3		1.50	5.00	ug/L
84-66-2	Diethylphthalate	44.3		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	43.3		0.98	5.00	ug/L
86-73-7	Fluorene	43.5		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	43.1		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	47.5		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	44.6		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	43.8		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	43.1		1.10	5.00	ug/L
1912-24-9	Atrazine	52.5		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	87.2	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	44.9		0.89	5.00	ug/L
120-12-7	Anthracene	46.7		1.10	5.00	ug/L
86-74-8	Carbazole	44.2		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	45.0		1.50	5.00	ug/L
206-44-0	Fluoranthene	44.5		1.30	5.00	ug/L
129-00-0	Pyrene	43.9		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	46.8		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	29.2		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	46.9		0.94	5.00	ug/L
218-01-9	Chrysene	44.7		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	47.7		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	50.0		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	42.4		1.10	5.00	ug/L

Raw Data: **BF140600.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 2024	Date Received:	
Client Sample ID:	PB165152BSD	SDG No.:	P4892
Lab Sample ID:	PB165152BSD	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
BF140600.D	1	11/20/24 08:29	11/25/24 13:54	PB165152

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	48.3		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	49.0		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	43.2		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	43.3		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	38.6		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	43.2		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	38.8		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	48.3		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	124		15 (10) - 110 (139)	83%	SPK: 150
13127-88-3	Phenol-d6	121		15 (10) - 110 (134)	81%	SPK: 150
4165-60-0	Nitrobenzene-d5	83.1		30 (49) - 130 (133)	83%	SPK: 100
321-60-8	2-Fluorobiphenyl	84.1		30 (52) - 130 (132)	84%	SPK: 100
118-79-6	2,4,6-Tribromophenol	128		15 (44) - 110 (137)	86%	SPK: 150
1718-51-0	Terphenyl-d14	86.5		30 (48) - 130 (125)	87%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	109000	6.869			
1146-65-2	Naphthalene-d8	414000	8.151			
15067-26-2	Acenaphthene-d10	230000	9.91			
1517-22-2	Phenanthrene-d10	432000	11.398			
1719-03-5	Chrysene-d12	254000	14.051			
1520-96-3	Perylene-d12	215000	15.557			

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: **BF140496.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMS	SDG No.:	P4892
Lab Sample ID:	P4892-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.1
Sample Wt/Vol:	30.07 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
BF140496.D	1	11/19/24 09:00	11/20/24 13:08	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	U	210	380	ug/Kg
108-95-2	Phenol	1700		96.1	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1700		97.0	200	ug/Kg
95-57-8	2-Chlorophenol	1700		96.8	200	ug/Kg
95-48-7	2-Methylphenol	1600		93.4	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1600		110	200	ug/Kg
98-86-2	Acetophenone	1600		100	200	ug/Kg
65794-96-9	3+4-Methylphenols	1600		92.5	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1600		46.7	92.7	ug/Kg
67-72-1	Hexachloroethane	1700		96.2	200	ug/Kg
98-95-3	Nitrobenzene	1600		110	200	ug/Kg
78-59-1	Isophorone	1700		98.0	200	ug/Kg
88-75-5	2-Nitrophenol	1700		110	200	ug/Kg
105-67-9	2,4-Dimethylphenol	2000		110	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1700		99.4	200	ug/Kg
120-83-2	2,4-Dichlorophenol	1700		87.5	200	ug/Kg
91-20-3	Naphthalene	1600		95.7	200	ug/Kg
106-47-8	4-Chloroaniline	650		95.7	200	ug/Kg
87-68-3	Hexachlorobutadiene	1600		96.5	200	ug/Kg
105-60-2	Caprolactam	1600		100	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1700		89.8	200	ug/Kg
91-57-6	2-Methylnaphthalene	1700		95.6	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6600	E	180	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1700		82.7	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1700		85.7	200	ug/Kg
92-52-4	1,1-Biphenyl	1700		100	200	ug/Kg
91-58-7	2-Chloronaphthalene	1700		96.5	200	ug/Kg
88-74-4	2-Nitroaniline	1700		110	200	ug/Kg
131-11-3	Dimethylphthalate	1800		94.7	200	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMS	SDG No.:	P4892
Lab Sample ID:	P4892-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.1
Sample Wt/Vol:	30.07 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
BF140496.D	1	11/19/24 09:00	11/20/24 13:08	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1800		100	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	1700		96.4	200	ug/Kg
99-09-2	3-Nitroaniline	1100		100	200	ug/Kg
83-32-9	Acenaphthene	1900		94.0	200	ug/Kg
51-28-5	2,4-Dinitrophenol	3300	E	280	380	ug/Kg
100-02-7	4-Nitrophenol	3100		130	380	ug/Kg
132-64-9	Dibenzofuran	1700		97.8	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	1700		99.9	200	ug/Kg
84-66-2	Diethylphthalate	1700		92.8	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1700		99.2	200	ug/Kg
86-73-7	Fluorene	1700		99.1	200	ug/Kg
100-01-6	4-Nitroaniline	1600		120	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1800		140	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1800		94.6	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1800		91.4	200	ug/Kg
118-74-1	Hexachlorobenzene	1700		98.5	200	ug/Kg
1912-24-9	Atrazine	1900		110	200	ug/Kg
87-86-5	Pentachlorophenol	3100		89.6	380	ug/Kg
85-01-8	Phenanthrene	1700		97.3	200	ug/Kg
120-12-7	Anthracene	1800		97.8	200	ug/Kg
86-74-8	Carbazole	1600		93.0	200	ug/Kg
84-74-2	Di-n-butylphthalate	1700		97.7	200	ug/Kg
206-44-0	Fluoranthene	1500		94.7	200	ug/Kg
129-00-0	Pyrene	1900		96.2	200	ug/Kg
85-68-7	Butylbenzylphthalate	1900		110	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1300		110	380	ug/Kg
56-55-3	Benzo(a)anthracene	1800		93.5	200	ug/Kg
218-01-9	Chrysene	1800		92.1	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1900		110	200	ug/Kg
117-84-0	Di-n-octyl phthalate	1900		130	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		94.0	200	ug/Kg

Raw Data: **BF140496.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMS	SDG No.:	P4892
Lab Sample ID:	P4892-02MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.1
Sample Wt/Vol:	30.07 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
BF140496.D	1	11/19/24 09:00	11/20/24 13:08	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1700		95.7	200	ug/Kg
50-32-8	Benzo(a)pyrene	1900		110	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2100		90.5	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2100		94.1	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1900		92.8	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1700		100	200	ug/Kg
123-91-1	1,4-Dioxane	1400		130	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1800		86.6	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	90.7		30 (18) - 130 (112)	60%	SPK: 150
13127-88-3	Phenol-d6	86.7		30 (15) - 130 (107)	58%	SPK: 150
4165-60-0	Nitrobenzene-d5	62.4		30 (18) - 130 (107)	62%	SPK: 100
321-60-8	2-Fluorobiphenyl	66.1		30 (20) - 130 (109)	66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	96.6		30 (10) - 130 (116)	64%	SPK: 150
1718-51-0	Terphenyl-d14	73.3		30 (10) - 130 (105)	73%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	124000	6.875			
1146-65-2	Naphthalene-d8	465000	8.157			
15067-26-2	Acenaphthene-d10	250000	9.91			
1517-22-2	Phenanthrene-d10	454000	11.398			
1719-03-5	Chrysene-d12	229000	14.057			
1520-96-3	Perylene-d12	240000	15.568			

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: **BF140497.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:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMSD	SDG No.:	P4892
Lab Sample ID:	P4892-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.1
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
BF140497.D	1	11/19/24 09:00	11/20/24 13:35	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	210	J	210	380	ug/Kg
108-95-2	Phenol	1900		96.2	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	2000		97.1	200	ug/Kg
95-57-8	2-Chlorophenol	2000		96.9	200	ug/Kg
95-48-7	2-Methylphenol	1900		93.5	200	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1900		110	200	ug/Kg
98-86-2	Acetophenone	1900		100	200	ug/Kg
65794-96-9	3+4-Methylphenols	1900		92.6	380	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1800		46.8	92.8	ug/Kg
67-72-1	Hexachloroethane	1900		96.3	200	ug/Kg
98-95-3	Nitrobenzene	1900		110	200	ug/Kg
78-59-1	Isophorone	2000		98.2	200	ug/Kg
88-75-5	2-Nitrophenol	2100		110	200	ug/Kg
105-67-9	2,4-Dimethylphenol	2400		110	200	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1900		99.6	200	ug/Kg
120-83-2	2,4-Dichlorophenol	2000		87.6	200	ug/Kg
91-20-3	Naphthalene	1900		95.8	200	ug/Kg
106-47-8	4-Chloroaniline	770		95.8	200	ug/Kg
87-68-3	Hexachlorobutadiene	1900		96.7	200	ug/Kg
105-60-2	Caprolactam	1900		100	380	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1900		89.9	200	ug/Kg
91-57-6	2-Methylnaphthalene	1900		95.7	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	7800	E	180	380	ug/Kg
88-06-2	2,4,6-Trichlorophenol	2000		82.8	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1900		85.9	200	ug/Kg
92-52-4	1,1-Biphenyl	1900		100	200	ug/Kg
91-58-7	2-Chloronaphthalene	1900		96.7	200	ug/Kg
88-74-4	2-Nitroaniline	2000		110	200	ug/Kg
131-11-3	Dimethylphthalate	2000		94.8	200	ug/Kg

Raw Data: **BF140497.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:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMSD	SDG No.:	P4892
Lab Sample ID:	P4892-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.1
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
BF140497.D	1	11/19/24 09:00	11/20/24 13:35	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	2100		100	200	ug/Kg
606-20-2	2,6-Dinitrotoluene	1900		96.5	200	ug/Kg
99-09-2	3-Nitroaniline	1300		100	200	ug/Kg
83-32-9	Acenaphthene	2200		94.1	200	ug/Kg
51-28-5	2,4-Dinitrophenol	3900	E	280	380	ug/Kg
100-02-7	4-Nitrophenol	3500	E	130	380	ug/Kg
132-64-9	Dibenzofuran	2000		97.9	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	1900		100	200	ug/Kg
84-66-2	Diethylphthalate	2000		92.9	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	2000		99.3	200	ug/Kg
86-73-7	Fluorene	1900		99.2	200	ug/Kg
100-01-6	4-Nitroaniline	1800		120	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2200		140	380	ug/Kg
86-30-6	n-Nitrosodiphenylamine	2100		94.7	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	2100		91.5	200	ug/Kg
118-74-1	Hexachlorobenzene	2100		98.6	200	ug/Kg
1912-24-9	Atrazine	2200		110	200	ug/Kg
87-86-5	Pentachlorophenol	3800	E	89.7	380	ug/Kg
85-01-8	Phenanthrene	2000		97.5	200	ug/Kg
120-12-7	Anthracene	2100		97.9	200	ug/Kg
86-74-8	Carbazole	1900		93.2	200	ug/Kg
84-74-2	Di-n-butylphthalate	2000		97.8	200	ug/Kg
206-44-0	Fluoranthene	1800		94.8	200	ug/Kg
129-00-0	Pyrene	2200		96.3	200	ug/Kg
85-68-7	Butylbenzylphthalate	2200		110	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1500		110	380	ug/Kg
56-55-3	Benzo(a)anthracene	2100		93.6	200	ug/Kg
218-01-9	Chrysene	2000		92.2	200	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2100		110	200	ug/Kg
117-84-0	Di-n-octyl phthalate	2300		130	380	ug/Kg
205-99-2	Benzo(b)fluoranthene	1900		94.1	200	ug/Kg

Raw Data: **BF140497.D**

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	11/15/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	11/15/24
Client Sample ID:	WB-310-BOTMSD	SDG No.:	P4892
Lab Sample ID:	P4892-02MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	86.1
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
BF140497.D	1	11/19/24 09:00	11/20/24 13:35	PB165086

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1800		95.8	200	ug/Kg
50-32-8	Benzo(a)pyrene	2200		110	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2400		90.6	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	2400		94.2	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	2200		92.9	200	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	2000		100	200	ug/Kg
123-91-1	1,4-Dioxane	1700		130	200	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	2100		86.7	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	106		30 (18) - 130 (112)	70%	SPK: 150
13127-88-3	Phenol-d6	101		30 (15) - 130 (107)	67%	SPK: 150
4165-60-0	Nitrobenzene-d5	72.2		30 (18) - 130 (107)	72%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.4		30 (20) - 130 (109)	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	112		30 (10) - 130 (116)	75%	SPK: 150
1718-51-0	Terphenyl-d14	85.7		30 (10) - 130 (105)	86%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	115000	6.875			
1146-65-2	Naphthalene-d8	427000	8.157			
15067-26-2	Acenaphthene-d10	231000	9.91			
1517-22-2	Phenanthrene-d10	409000	11.398			
1719-03-5	Chrysene-d12	207000	14.045			
1520-96-3	Perylene-d12	226000	15.539			

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

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

CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Nov 13 14:40:06 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140332.D 5 =BF140333.D 10 =BF140334.D 20 =BF140335.D 40 =BF140340.D 50 =BF140337.D 60 =BF140338.D 80 =BF1403
39.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.582	0.546	0.530	0.515	0.495	0.506	0.480	0.522	6.53
3)		Pyridine		1.430	1.343	1.323	1.316	1.189	1.237	1.147	1.283	7.61
4)		n-Nitrosodimet...		0.658	0.632	0.651	0.659	0.644	0.671	0.627	0.649	2.39
5)	S	2-Fluorophenol		1.329	1.257	1.223	1.150	1.090	1.118	1.032	1.171	8.84
6)		Aniline		1.587	1.527	1.495	1.451	1.267	1.270	1.066	1.381	13.42
7)	S	Phenol-d6		1.773	1.691	1.643	1.605	1.483	1.507	1.407	1.587	8.09
8)		2-Chlorophenol		1.397	1.349	1.332	1.263	1.176	1.184	1.106	1.258	8.49
9)		Benzaldehyde		1.101	1.087	1.017	0.891	0.828	0.783		0.951	14.32
10)	C	Phenol		1.799	1.793	1.743	1.724	1.582	1.597	1.478	1.674	7.31
11)		bis(2-Chloroet...		1.359	1.294	1.306	1.263	1.227	1.249	1.179	1.268	4.60
12)		1,3-Dichlorobe...		1.585	1.475	1.454	1.374	1.291	1.317	1.221	1.388	8.98
13)	C	1,4-Dichlorobe...		1.590	1.534	1.486	1.391	1.306	1.326	1.221	1.408	9.49
14)		1,2-Dichlorobe...		1.494	1.429	1.398	1.294	1.212	1.214	1.108	1.307	10.63
15)		Benzyl Alcohol		1.172	1.193	1.199	1.211	1.100	1.108	1.020	1.143	6.10
16)		2,2'-oxybis(1-...		1.906	1.826	1.815	1.816	1.666	1.684	1.549	1.752	7.01
17)		2-Methylphenol		1.092	1.062	1.072	1.064	0.998	1.016	0.942	1.035	5.07
18)		Hexachloroethane		0.562	0.543	0.550	0.514	0.500	0.506	0.468	0.520	6.30
19)	P	n-Nitroso-di-n...	1.032	1.029	1.003	0.986	0.982	0.883	0.905	0.848	0.959	7.30
20)		3+4-Methylphenols		1.436	1.427	1.359	1.351	1.200	1.198	1.091	1.294	10.21
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.532	0.508	0.481	0.450	0.434	0.441	0.411	0.465	9.35
23)	S	Nitrobenzene-d5		0.411	0.401	0.399	0.375	0.368	0.379	0.354	0.384	5.28
24)		Nitrobenzene		0.423	0.421	0.406	0.393	0.390	0.394	0.371	0.400	4.61
25)		Isophorone		0.736	0.702	0.692	0.674	0.654	0.671	0.634	0.680	4.87
26)	C	2-Nitrophenol		0.175	0.179	0.181	0.179	0.175	0.181	0.171	0.177	1.99
27)		2,4-Dimethylph...		0.238	0.236	0.232	0.223	0.221	0.227	0.214	0.227	3.86
28)		bis(2-Chloroet...		0.461	0.442	0.430	0.407	0.398	0.404	0.379	0.417	6.80
29)	C	2,4-Dichloroph...		0.307	0.296	0.287	0.275	0.272	0.272	0.255	0.281	6.20
30)		1,2,4-Trichlor...		0.346	0.331	0.325	0.302	0.298	0.301	0.283	0.312	7.15
31)		Naphthalene		1.160	1.105	1.064	0.982	0.950	0.955	0.886	1.015	9.60
32)		Benzoic acid		0.162	0.178	0.180	0.212	0.215	0.226	0.226	0.200	13.01
33)		4-Chloroaniline		0.390	0.386	0.370	0.340	0.333	0.340	0.311	0.353	8.36
34)	C	Hexachlorobuta...		0.220	0.214	0.210	0.193	0.188	0.190	0.178	0.199	7.73
35)		Caprolactam		0.098	0.093	0.094	0.092	0.091	0.095	0.089	0.093	3.27
36)	C	4-Chloro-3-met...		0.331	0.327	0.320	0.309	0.299	0.304	0.287	0.311	5.14
37)		2-Methylnaphth...		0.751	0.706	0.683	0.632	0.610	0.607	0.565	0.651	10.01
38)		1-Methylnaphth...		0.734	0.696	0.673	0.625	0.589	0.592	0.550	0.637	10.39

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.646	0.585	0.583	0.531	0.524	0.517	0.485	0.553	9.85
41)	P	Hexachlorocycl...		0.111	0.143	0.139	0.156	0.159	0.145	0.142	12.04
42)	S	2,4,6-Tribromo...	0.220	0.211	0.207	0.193	0.191	0.189	0.182	0.199	6.88
43)	C	2,4,6-Trichlor...	0.380	0.374	0.374	0.360	0.360	0.352	0.341	0.363	3.87
44)		2,4,5-Trichlor...	0.421	0.417	0.412	0.389	0.387	0.390	0.361	0.397	5.41
45)	S	2-Fluorobiphenyl	1.524	1.396	1.351	1.172	1.125	1.110	1.031	1.244	14.50
46)		1,1'-Biphenyl	1.690	1.571	1.565	1.404	1.368	1.343	1.244	1.455	10.80
47)		2-Chloronaphth...	1.279	1.182	1.149	1.065	1.064	1.049	0.971	1.108	9.20
48)		2-Nitroaniline	0.378	0.365	0.384	0.364	0.365	0.366	0.351	0.368	2.91
49)		Acenaphthylene	1.940	1.802	1.786	1.636	1.582	1.552	1.441	1.677	10.29
50)		Dimethylphthalate	1.464	1.358	1.371	1.261	1.246	1.244	1.181	1.304	7.47
51)		2,6-Dinitrotol...	0.317	0.303	0.313	0.297	0.291	0.289	0.268	0.297	5.57
52)	C	Acenaphthene	1.259	1.204	1.192	1.096	1.091	1.079	1.006	1.133	7.78
53)		3-Nitroaniline	0.333	0.327	0.335	0.310	0.307	0.298	0.275	0.312	6.92
54)	P	2,4-Dinitrophenol		0.109	0.148	0.147	0.178	0.170	0.168	0.153	16.27
55)		Dibenzofuran	1.904	1.736	1.715	1.558	1.502	1.466	1.344	1.603	11.92
56)	P	4-Nitrophenol	0.199	0.217	0.239	0.236	0.240	0.237	0.225	0.228	6.67
57)		2,4-Dinitrotol...	0.414	0.400	0.417	0.387	0.387	0.382	0.351	0.391	5.77
58)		Fluorene	1.525	1.403	1.365	1.202	1.168	1.137	1.066	1.267	13.14
59)		2,3,4,6-Tetrac...	0.322	0.328	0.326	0.318	0.308	0.302	0.288	0.313	4.61
60)		Diethylphthalate	1.525	1.417	1.398	1.287	1.272	1.246	1.185	1.333	8.85
61)		4-Chlorophenyl...	0.739	0.688	0.669	0.604	0.583	0.567	0.528	0.625	12.01
62)		4-Nitroaniline	0.335	0.325	0.328	0.319	0.316	0.313	0.297	0.319	3.86
63)		Azobenzene	1.498	1.391	1.380	1.293	1.251	1.244	1.163	1.317	8.55
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...	0.080	0.098	0.113	0.109	0.117	0.120	0.116	0.108	13.00
66)	c	n-Nitrosodiphe...	0.651	0.630	0.600	0.559	0.541	0.541	0.522	0.578	8.57
67)		4-Bromophenyl-...	0.227	0.210	0.209	0.194	0.191	0.188	0.180	0.200	8.14
68)		Hexachlorobenzene	0.251	0.242	0.232	0.218	0.209	0.215	0.208	0.225	7.54
69)		Atrazine	0.191	0.183	0.135	0.145	0.155	0.205	0.209	0.175	17.03
70)	C	Pentachlorophenol	0.097	0.108	0.124	0.127	0.131	0.130	0.130	0.121	10.87
71)		Phenanthrene	1.096	1.053	0.986	0.903	0.868	0.851	0.820	0.940	11.33
72)		Anthracene	1.071	1.018	0.966	0.889	0.860	0.839	0.803	0.921	10.81
73)		Carbazole	1.053	1.009	0.963	0.876	0.846	0.834	0.783	0.909	11.02
74)		Di-n-butylphth...	1.214	1.177	1.150	1.074	1.036	1.023	0.964	1.091	8.37
75)	C	Fluoranthene	1.256	1.201	1.141	1.018	0.962	0.933	0.867	1.054	13.92
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.634	0.684	0.653	0.742	0.953	0.939	0.768	18.64
78)		Pyrene	1.748	1.706	1.643	1.679	1.728	1.800	1.672	1.711	3.08
79)	S	Terphenyl-d14	1.226	1.185	1.108	1.123	1.139	1.190	1.093	1.152	4.26
80)		Butylbenzylpht...	0.640	0.638	0.654	0.690	0.670	0.681	0.628	0.657	3.56
81)		Benzo(a)anthra...	1.451	1.418	1.351	1.263	1.229	1.294	1.195	1.314	7.31
82)		3,3'-Dichlorob...	0.438	0.431	0.433	0.402	0.406	0.416	0.399	0.418	3.79
83)		Chrysene	1.394	1.241	1.235	1.168	1.137	1.123	1.099	1.199	8.44
84)		Bis(2-ethylhex...	0.886	0.890	0.897	0.927	0.858	0.869	0.813	0.877	4.07
85)	c	Di-n-octyl pht...	1.231	1.217	1.270	1.290	1.187	1.241	1.212	1.235	2.86

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF111324.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.116	1.150	1.138	1.258	1.316	1.354	1.317	1.235	8.02
88)		Benzo(b)fluora...	1.405	1.352	1.471	1.263	1.235	1.233	1.199	1.308	7.82
89)		Benzo(k)fluora...	1.286	1.241	1.120	1.060	0.952	0.935	0.888	1.069	14.47
90)	C	Benzo(a)pyrene	1.100	1.053	1.054	1.005	0.970	0.980	0.948	1.016	5.40
91)		Dibenzo(a,h)an...	0.941	0.952	0.944	1.039	1.074	1.121	1.077	1.021	7.30
92)		Benzo(g,h,i)pe...	0.941	0.963	0.954	1.063	1.122	1.146	1.120	1.044	8.55

(#) = Out of Range

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF112124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Thu Nov 21 15:23:48 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140528.D 5 =BF140529.D 10 =BF140530.D 20 =BF140531.D 40 =BF140532.D 50 =BF140533.D 60 =BF140534.D 80 =BF1405
35.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.501	0.502	0.576	0.489	0.452	0.454	0.477	0.493	8.46
3)		Pyridine		0.981	1.019	1.121	1.192	1.062	1.087	1.128	1.084	6.54
4)		n-Nitrosodimet...		0.616	0.611	0.661	0.648	0.632	0.632	0.660	0.637	3.15
5)	S	2-Fluorophenol		1.261	1.233	1.202	1.174	1.117	1.127	1.091	1.172	5.40
6)		Aniline		1.159	1.195	1.133	1.251	1.042	1.020	0.835	1.091	12.73
7)	S	Phenol-d6		1.729	1.617	1.559	1.602	1.465	1.470	1.407	1.550	7.14
8)		2-Chlorophenol		1.385	1.328	1.278	1.283	1.201	1.208	1.145	1.261	6.51
9)		Benzaldehyde			1.007	0.970	0.738	0.752	0.635		0.820	19.55
10)	C	Phenol		1.723	1.648	1.620	1.667	1.514	1.490	1.417	1.583	6.98
11)		bis(2-Chloroet...		1.292	1.242	1.214	1.246	1.146	1.200	1.138	1.211	4.56
12)		1,3-Dichlorobe...		1.600	1.493	1.433	1.399	1.345	1.361	1.288	1.417	7.31
13)	C	1,4-Dichlorobe...		1.613	1.501	1.456	1.428	1.358	1.372	1.314	1.435	7.04
14)		1,2-Dichlorobe...		1.503	1.434	1.375	1.355	1.268	1.266	1.210	1.344	7.71
15)		Benzyl Alcohol		1.234	1.174	1.161	1.224	1.113	1.090	1.048	1.149	5.98
16)		2,2'-oxybis(1-...		1.650	1.480	1.434	1.463	1.335	1.377	1.276	1.431	8.43
17)		2-Methylphenol		1.121	1.034	1.033	1.042	0.956	0.959	0.922	1.009	6.74
18)		Hexachloroethane		0.598	0.545	0.549	0.537	0.514	0.510	0.499	0.536	6.17
19)	P	n-Nitroso-di-n...	0.972	1.002	0.949	0.916	0.946	0.856	0.857	0.829	0.916	6.82
20)		3+4-Methylphenols		1.495	1.362	1.305	1.347	1.211	1.209	1.154	1.298	8.98
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.536	0.511	0.494	0.481	0.463	0.460	0.468	0.488	5.75
23)	S	Nitrobenzene-d5		0.409	0.403	0.395	0.392	0.377	0.377	0.383	0.391	3.21
24)		Nitrobenzene		0.439	0.409	0.409	0.401	0.388	0.391	0.392	0.404	4.35
25)		Isophorone		0.694	0.654	0.657	0.662	0.629	0.634	0.635	0.652	3.44
26)	C	2-Nitrophenol		0.178	0.172	0.185	0.180	0.178	0.180	0.180	0.179	2.17
27)		2,4-Dimethylph...		0.221	0.214	0.213	0.224	0.204	0.207	0.218	0.214	3.40
28)		bis(2-Chloroet...		0.428	0.408	0.403	0.397	0.378	0.384	0.383	0.397	4.37
29)	C	2,4-Dichloroph...		0.301	0.291	0.290	0.282	0.277	0.274	0.271	0.284	3.82
30)		1,2,4-Trichlor...		0.342	0.338	0.332	0.317	0.317	0.312	0.312	0.324	3.91
31)		Naphthalene		1.116	1.075	1.062	1.013	0.993	0.983	0.970	1.030	5.32
32)		Benzoic acid			0.101	0.126	0.177	0.185	0.192	0.202	0.164	24.72
33)		4-Chloroaniline		0.308	0.318	0.309	0.325	0.303	0.308	0.289	0.308	3.71
34)	C	Hexachlorobuta...		0.227	0.225	0.219	0.212	0.209	0.207	0.204	0.215	4.15
35)		Caprolactam		0.091	0.091	0.091	0.090	0.085	0.085	0.083	0.088	3.99
36)	C	4-Chloro-3-met...		0.348	0.318	0.317	0.327	0.307	0.307	0.301	0.318	4.95
37)		2-Methylnaphth...		0.724	0.680	0.669	0.650	0.623	0.620	0.615	0.654	6.09
38)		1-Methylnaphth...		0.707	0.665	0.659	0.638	0.611	0.608	0.601	0.641	5.98

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF112124.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.635	0.604	0.606	0.563	0.561	0.565	0.565	0.586	5.02
41)	P	Hexachlorocycl...		0.055	0.090	0.114	0.121	0.129	0.133	0.107	27.80
42)	S	2,4,6-Tribromo...	0.222	0.209	0.220	0.216	0.210	0.210	0.211	0.214	2.52
43)	C	2,4,6-Trichlor...	0.384	0.358	0.375	0.366	0.364	0.360	0.365	0.367	2.45
44)		2,4,5-Trichlor...	0.402	0.396	0.410	0.404	0.390	0.397	0.392	0.399	1.80
45)	S	2-Fluorobiphenyl	1.550	1.402	1.423	1.291	1.255	1.240	1.235	1.342	8.90
46)		1,1'-Biphenyl	1.666	1.530	1.563	1.447	1.427	1.418	1.403	1.493	6.50
47)		2-Chloronaphth...	1.251	1.145	1.162	1.106	1.082	1.084	1.091	1.131	5.39
48)		2-Nitroaniline	0.367	0.351	0.379	0.367	0.363	0.357	0.359	0.363	2.50
49)		Acenaphthylene	1.890	1.765	1.808	1.662	1.628	1.623	1.590	1.710	6.58
50)		Dimethylphthalate	1.455	1.329	1.346	1.299	1.267	1.270	1.254	1.317	5.28
51)		2,6-Dinitrotol...	0.314	0.299	0.307	0.301	0.291	0.293	0.286	0.299	3.24
52)	C	Acenaphthene	1.182	1.110	1.134	1.063	1.052	1.037	1.026	1.086	5.29
53)		3-Nitroaniline	0.307	0.297	0.309	0.300	0.289	0.281	0.262	0.292	5.71
54)	P	2,4-Dinitrophenol		0.057	0.089	0.140	0.145	0.150	0.154	0.122	32.70
55)		Dibenzofuran	1.898	1.739	1.739	1.622	1.559	1.531	1.509	1.657	8.53
56)	P	4-Nitrophenol		0.160	0.195	0.207	0.212	0.214	0.208	0.199	10.31
57)		2,4-Dinitrotol...	0.403	0.403	0.416	0.404	0.386	0.389	0.379	0.397	3.24
58)		Fluorene	1.509	1.409	1.399	1.295	1.263	1.224	1.210	1.330	8.37
59)		2,3,4,6-Tetrac...	0.307	0.296	0.308	0.312	0.305	0.305	0.312	0.306	1.72
60)		Diethylphthalate	1.495	1.375	1.393	1.311	1.292	1.268	1.234	1.338	6.66
61)		4-Chlorophenyl...	0.739	0.682	0.685	0.639	0.619	0.605	0.599	0.653	7.90
62)		4-Nitroaniline	0.307	0.301	0.315	0.312	0.310	0.309	0.291	0.306	2.67
63)		Azobenzene	1.406	1.320	1.320	1.235	1.205	1.206	1.179	1.267	6.55
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.073	0.090	0.110	0.110	0.117	0.113	0.102	16.74
66)	c	n-Nitrosodiphe...	0.632	0.618	0.597	0.578	0.577	0.580	0.558	0.591	4.39
67)		4-Bromophenyl-...	0.218	0.215	0.206	0.200	0.200	0.205	0.198	0.206	3.79
68)		Hexachlorobenzene	0.257	0.240	0.239	0.233	0.232	0.236	0.232	0.238	3.65
69)		Atrazine	0.181	0.171	0.131	0.140	0.147	0.196	0.198	0.166	16.37
70)	C	Pentachlorophenol		0.071	0.090	0.116	0.115	0.121	0.118	0.105	19.24
71)		Phenanthrene	1.074	1.020	0.970	0.944	0.925	0.916	0.881	0.961	6.87
72)		Anthracene	1.038	0.994	0.958	0.925	0.905	0.904	0.859	0.940	6.47
73)		Carbazole	1.004	0.949	0.930	0.889	0.876	0.862	0.821	0.905	6.75
74)		Di-n-butylphth...	1.144	1.075	1.074	1.023	1.021	1.007	0.967	1.044	5.56
75)	C	Fluoranthene	1.186	1.111	1.114	1.014	0.999	0.962	0.921	1.044	9.11
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.268	0.422	0.296	0.575	0.734	1.025	0.751	0.581	47.31
78)		Pyrene	1.905	1.801	1.897	1.853	1.791	1.898	1.799	1.849	2.79
79)	S	Terphenyl-d14	1.351	1.254	1.308	1.283	1.228	1.313	1.254	1.284	3.31
80)		Butylbenzylpht...	0.676	0.644	0.694	0.679	0.655	0.674	0.641	0.666	2.96
81)		Benzo(a)anthra...	1.409	1.319	1.379	1.286	1.295	1.338	1.242	1.324	4.30
82)		3,3'-Dichlorob...	0.375	0.383	0.393	0.413	0.406	0.419	0.394	0.397	4.03
83)		Chrysene	1.354	1.263	1.218	1.201	1.137	1.173	1.128	1.211	6.50
84)		Bis(2-ethylhex...	0.904	0.828	0.862	0.833	0.824	0.841	0.797	0.841	4.00
85)	c	Di-n-octyl pht...	1.198	1.133	1.147	1.132	1.147	1.169	1.121	1.150	2.29

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF112124.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.209	1.283	1.299	1.304	1.306	1.409	1.313	1.303	4.51
88)		Benzo(b)fluora...	1.347	1.256	1.380	1.186	1.248	1.207	1.168	1.256	6.41
89)		Benzo(k)fluora...	1.243	1.236	1.059	1.101	1.022	1.055	0.980	1.099	9.34
90)	C	Benzo(a)pyrene	1.062	1.050	1.063	1.007	0.998	1.014	0.957	1.021	3.81
91)		Dibenzo(a,h)an...	1.015	1.038	1.063	1.068	1.075	1.149	1.064	1.067	3.90
92)		Benzo(g,h,i)pe...	1.033	1.090	1.078	1.085	1.094	1.161	1.083	1.089	3.48

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: BNA_F Calibration Date/Time: 11/20/2024 09:31

Lab File ID: BF140488.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.171	1.183		1.0	
Benzaldehyde	0.951	1.434		50.8	
Phenol-d6	1.587	1.579		-0.5	
Phenol	1.674	1.657		-1.0	20.0
bis(2-Chloroethyl)ether	1.268	1.277		0.7	
2-Chlorophenol	1.258	1.268		0.8	
2-Methylphenol	1.035	1.032		-0.3	
2,2-oxybis(1-Chloropropane)	1.752	1.634		-6.7	
Acetophenone	0.465	0.469		0.9	
3+4-Methylphenols	1.295	1.290		-0.4	
n-Nitroso-di-n-propylamine	0.959	0.916	0.050	-4.5	
Nitrobenzene-d5	0.384	0.392		2.1	
Hexachloroethane	0.520	0.535		2.9	
Nitrobenzene	0.400	0.409		2.3	
Isophorone	0.680	0.680		0.0	
2-Nitrophenol	0.177	0.189		6.8	20.0
2,4-Dimethylphenol	0.227	0.234		3.1	
bis(2-Chloroethoxy)methane	0.417	0.423		1.4	
2,4-Dichlorophenol	0.281	0.294		4.6	20.0
Naphthalene	1.015	1.040		2.5	
4-Chloroaniline	0.353	0.342		-3.1	
Hexachlorobutadiene	0.199	0.209		5.0	20.0
Caprolactam	0.093	0.096		3.2	
4-Chloro-3-methylphenol	0.311	0.322		3.5	20.0
2-Methylnaphthalene	0.651	0.663		1.8	
Hexachlorocyclopentadiene	0.142	0.127	0.050	-10.6	
2,4,6-Trichlorophenol	0.363	0.377		3.9	20.0
2-Fluorobiphenyl	1.244	1.282		3.1	
2,4,5-Trichlorophenol	0.397	0.418		5.3	
1,1-Biphenyl	1.455	1.501		3.2	
2-Chloronaphthalene	1.108	1.144		3.2	
2-Nitroaniline	0.368	0.375		1.9	
Dimethylphthalate	1.304	1.342		2.9	
Acenaphthylene	1.677	1.721		2.6	
2,6-Dinitrotoluene	0.297	0.314		5.7	
3-Nitroaniline	0.312	0.318		1.9	
Acenaphthene	1.133	1.176		3.8	20.0
2,4-Dinitrophenol	0.153	0.154	0.050	0.7	
4-Nitrophenol	0.228	0.216	0.050	-5.3	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: BNA_F Calibration Date/Time: 11/20/2024 09:31

Lab File ID: BF140488.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.603	1.638		2.2	
2,4-Dinitrotoluene	0.391	0.410		4.9	
Diethylphthalate	1.333	1.357		1.8	
4-Chlorophenyl-phenylether	0.625	0.650		4.0	
Fluorene	1.267	1.310		3.4	
4-Nitroaniline	0.319	0.317		-0.6	
4,6-Dinitro-2-methylphenol	0.108	0.121		12.0	
n-Nitrosodiphenylamine	0.578	0.600		3.8	20.0
2,4,6-Tribromophenol	0.199	0.210		5.5	
4-Bromophenyl-phenylether	0.200	0.207		3.5	
Hexachlorobenzene	0.225	0.237		5.3	
Atrazine	0.175	0.161		-8.0	
Pentachlorophenol	0.121	0.122		0.8	20.0
Phenanthrene	0.940	0.958		1.9	
Anthracene	0.921	0.940		2.1	
Carbazole	0.909	0.919		1.1	
Di-n-butylphthalate	1.091	1.108		1.6	
Fluoranthene	1.054	1.040		-1.3	20.0
Pyrene	1.711	1.993		16.5	
Terphenyl-d14	1.152	1.323		14.8	
Butylbenzylphthalate	0.657	0.733		11.6	
3,3-Dichlorobenzidine	0.418	0.425		1.7	
Benzo(a)anthracene	1.314	1.367		4.0	
Chrysene	1.199	1.229		2.5	
Bis(2-ethylhexyl)phthalate	0.877	0.895		2.1	
Di-n-octyl phthalate	1.235	1.193		-3.4	20.0
Benzo(b)fluoranthene	1.308	1.186		-9.3	
Benzo(k)fluoranthene	1.069	1.134		6.1	
Benzo(a)pyrene	1.016	1.047		3.1	20.0
Indeno(1,2,3-cd)pyrene	1.235	1.428		15.6	
Dibenzo(a,h)anthracene	1.021	1.170		14.6	
Benzo(g,h,i)perylene	1.044	1.208		15.7	
1,2,4,5-Tetrachlorobenzene	0.553	0.581		5.1	
1,4-Dioxane	0.522	0.523		0.2	20.0
2,3,4,6-Tetrachlorophenol	0.313	0.321		2.6	

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: BNA_F Calibration Date/Time: 11/20/2024 15:59

Lab File ID: BF140501.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.171	1.206		3.0	
Benzaldehyde	0.951	1.414		48.7	
Phenol-d6	1.587	1.601		0.9	
Phenol	1.674	1.671		-0.2	20.0
bis(2-Chloroethyl)ether	1.268	1.316		3.8	
2-Chlorophenol	1.258	1.293		2.8	
2-Methylphenol	1.035	1.046		1.1	
2,2-oxybis(1-Chloropropane)	1.752	1.618		-7.6	
Acetophenone	0.465	0.469		0.9	
3+4-Methylphenols	1.295	1.291		-0.3	
n-Nitroso-di-n-propylamine	0.959	0.908	0.050	-5.3	
Nitrobenzene-d5	0.384	0.393		2.3	
Hexachloroethane	0.520	0.541		4.0	
Nitrobenzene	0.400	0.413		3.3	
Isophorone	0.680	0.677		-0.4	
2-Nitrophenol	0.177	0.190		7.3	20.0
2,4-Dimethylphenol	0.227	0.234		3.1	
bis(2-Chloroethoxy)methane	0.417	0.417		0.0	
2,4-Dichlorophenol	0.281	0.294		4.6	20.0
Naphthalene	1.015	1.038		2.3	
4-Chloroaniline	0.353	0.305		-13.6	
Hexachlorobutadiene	0.199	0.207		4.0	20.0
Caprolactam	0.093	0.095		2.2	
4-Chloro-3-methylphenol	0.311	0.317		1.9	20.0
2-Methylnaphthalene	0.651	0.658		1.1	
Hexachlorocyclopentadiene	0.142	0.127	0.050	-10.6	
2,4,6-Trichlorophenol	0.363	0.378		4.1	20.0
2-Fluorobiphenyl	1.244	1.264		1.6	
2,4,5-Trichlorophenol	0.397	0.416		4.8	
1,1-Biphenyl	1.455	1.494		2.7	
2-Chloronaphthalene	1.108	1.143		3.2	
2-Nitroaniline	0.368	0.382		3.8	
Dimethylphthalate	1.304	1.338		2.6	
Acenaphthylene	1.677	1.745		4.1	
2,6-Dinitrotoluene	0.297	0.313		5.4	
3-Nitroaniline	0.312	0.313		0.3	
Acenaphthene	1.133	1.181		4.2	20.0
2,4-Dinitrophenol	0.153	0.153	0.050	0.0	
4-Nitrophenol	0.228	0.220	0.050	-3.5	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: BNA_F Calibration Date/Time: 11/20/2024 15:59

Lab File ID: BF140501.D Init. Calib. Date(s): 11/13/2024 11/13/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 09:01 12:48

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.603	1.635		2.0	
2,4-Dinitrotoluene	0.391	0.418		6.9	
Diethylphthalate	1.333	1.348		1.1	
4-Chlorophenyl-phenylether	0.625	0.637		1.9	
Fluorene	1.267	1.308		3.2	
4-Nitroaniline	0.319	0.312		-2.2	
4,6-Dinitro-2-methylphenol	0.108	0.122		13.0	
n-Nitrosodiphenylamine	0.578	0.589		1.9	20.0
2,4,6-Tribromophenol	0.199	0.209		5.0	
4-Bromophenyl-phenylether	0.200	0.205		2.5	
Hexachlorobenzene	0.225	0.230		2.2	
Atrazine	0.175	0.150		-14.3	
Pentachlorophenol	0.121	0.121		0.0	20.0
Phenanthrene	0.940	0.938		-0.2	
Anthracene	0.921	0.933		1.3	
Carbazole	0.909	0.912		0.3	
Di-n-butylphthalate	1.091	1.080		-1.0	
Fluoranthene	1.054	1.030		-2.3	20.0
Pyrene	1.711	1.843		7.7	
Terphenyl-d14	1.152	1.233		7.0	
Butylbenzylphthalate	0.657	0.698		6.2	
3,3-Dichlorobenzidine	0.418	0.413		-1.2	
Benzo(a)anthracene	1.314	1.378		4.9	
Chrysene	1.199	1.184		-1.3	
Bis(2-ethylhexyl)phthalate	0.877	0.903		3.0	
Di-n-octyl phthalate	1.235	1.287		4.2	20.0
Benzo(b)fluoranthene	1.308	1.302		-0.5	
Benzo(k)fluoranthene	1.069	1.034		-3.3	
Benzo(a)pyrene	1.016	1.037		2.1	20.0
Indeno(1,2,3-cd)pyrene	1.235	1.266		2.5	
Dibenzo(a,h)anthracene	1.021	1.045		2.4	
Benzo(g,h,i)perylene	1.044	1.064		1.9	
1,2,4,5-Tetrachlorobenzene	0.553	0.576		4.2	
1,4-Dioxane	0.522	0.543		4.0	20.0
2,3,4,6-Tetrachlorophenol	0.313	0.330		5.4	

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: BNA_F Calibration Date/Time: 11/25/2024 09:33

Lab File ID: BF140590.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.172	1.119		-4.5	
Benzaldehyde	0.820	0.779		-5.0	
Phenol-d6	1.550	1.507		-2.8	
Phenol	1.583	1.586		0.2	20.0
bis(2-Chloroethyl)ether	1.211	1.180		-2.6	
2-Chlorophenol	1.261	1.243		-1.4	
2-Methylphenol	1.010	0.988		-2.2	
2,2-oxybis(1-Chloropropane)	1.431	1.423		-0.6	
Acetophenone	0.488	0.461		-5.5	
3+4-Methylphenols	1.298	1.252		-3.5	
n-Nitroso-di-n-propylamine	0.916	0.880	0.050	-3.9	
Nitrobenzene-d5	0.391	0.377		-3.6	
Hexachloroethane	0.536	0.520		-3.0	
Nitrobenzene	0.404	0.386		-4.5	
Isophorone	0.652	0.631		-3.2	
2-Nitrophenol	0.179	0.180		0.6	20.0
2,4-Dimethylphenol	0.214	0.218		1.9	
bis(2-Chloroethoxy)methane	0.397	0.394		-0.8	
2,4-Dichlorophenol	0.284	0.282		-0.7	20.0
Naphthalene	1.030	1.017		-1.3	
4-Chloroaniline	0.308	0.331		7.5	
Hexachlorobutadiene	0.215	0.212		-1.4	20.0
Caprolactam	0.088	0.090		2.3	
4-Chloro-3-methylphenol	0.318	0.314		-1.3	20.0
2-Methylnaphthalene	0.654	0.650		-0.6	
Hexachlorocyclopentadiene	0.107	0.100	0.050	-6.5	
2,4,6-Trichlorophenol	0.367	0.368		0.3	20.0
2-Fluorobiphenyl	1.342	1.315		-2.0	
2,4,5-Trichlorophenol	0.399	0.405		1.5	
1,1-Biphenyl	1.493	1.483		-0.7	
2-Chloronaphthalene	1.131	1.133		0.2	
2-Nitroaniline	0.363	0.361		-0.6	
Dimethylphthalate	1.317	1.305		-0.9	
Acenaphthylene	1.710	1.718		0.5	
2,6-Dinitrotoluene	0.299	0.304		1.7	
3-Nitroaniline	0.292	0.298		2.1	
Acenaphthene	1.086	1.091		0.5	20.0
2,4-Dinitrophenol	0.122	0.127	0.050	4.1	
4-Nitrophenol	0.199	0.190	0.050	-4.5	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: BNA_F Calibration Date/Time: 11/25/2024 09:33

Lab File ID: BF140590.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.657	1.654		-0.2	
2,4-Dinitrotoluene	0.397	0.407		2.5	
Diethylphthalate	1.338	1.312		-1.9	
4-Chlorophenyl-phenylether	0.653	0.649		-0.6	
Fluorene	1.330	1.315		-1.1	
4-Nitroaniline	0.306	0.308		0.7	
4,6-Dinitro-2-methylphenol	0.102	0.105		2.9	
n-Nitrosodiphenylamine	0.591	0.579		-2.0	20.0
2,4,6-Tribromophenol	0.214	0.210		-1.9	
4-Bromophenyl-phenylether	0.206	0.203		-1.5	
Hexachlorobenzene	0.238	0.233		-2.1	
Atrazine	0.166	0.168		1.2	
Pentachlorophenol	0.105	0.110		4.8	20.0
Phenanthrene	0.961	0.960		-0.1	
Anthracene	0.940	0.932		-0.9	
Carbazole	0.905	0.906		0.1	
Di-n-butylphthalate	1.044	1.047		0.3	
Fluoranthene	1.044	1.089		4.3	20.0
Pyrene	1.849	1.784		-3.5	
Terphenyl-d14	1.284	1.204		-6.2	
Butylbenzylphthalate	0.666	0.675		1.4	
3,3-Dichlorobenzidine	0.397	0.378		-4.8	
Benzo(a)anthracene	1.324	1.309		-1.1	
Chrysene	1.211	1.194		-1.4	
Bis(2-ethylhexyl)phthalate	0.841	0.854		1.5	
Di-n-octyl phthalate	1.150	1.214		5.6	20.0
Benzo(b)fluoranthene	1.256	1.296		3.2	
Benzo(k)fluoranthene	1.099	1.007		-8.4	
Benzo(a)pyrene	1.021	1.000		-2.1	20.0
Indeno(1,2,3-cd)pyrene	1.303	1.273		-2.3	
Dibenzo(a,h)anthracene	1.067	1.042		-2.3	
Benzo(g,h,i)perylene	1.089	1.078		-1.0	
1,2,4,5-Tetrachlorobenzene	0.586	0.586		0.0	
1,4-Dioxane	0.493	0.469		-4.9	20.0
2,3,4,6-Tetrachlorophenol	0.306	0.320		4.6	

All other compounds must meet a minimum RRF of 0.010.

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.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: BNA_F Calibration Date/Time: 11/25/2024 15:49

Lab File ID: BF140604.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.172	1.153		-1.6	
Benzaldehyde	0.820	0.848		3.4	
Phenol-d6	1.550	1.521		-1.9	
Phenol	1.583	1.580		-0.2	20.0
bis(2-Chloroethyl)ether	1.211	1.199		-1.0	
2-Chlorophenol	1.261	1.217		-3.5	
2-Methylphenol	1.010	1.019		0.9	
2,2-oxybis(1-Chloropropane)	1.431	1.429		-0.1	
Acetophenone	0.488	0.464		-4.9	
3+4-Methylphenols	1.298	1.259		-3.0	
n-Nitroso-di-n-propylamine	0.916	0.876	0.050	-4.4	
Nitrobenzene-d5	0.391	0.378		-3.3	
Hexachloroethane	0.536	0.521		-2.8	
Nitrobenzene	0.404	0.392		-3.0	
Isophorone	0.652	0.640		-1.8	
2-Nitrophenol	0.179	0.180		0.6	20.0
2,4-Dimethylphenol	0.214	0.224		4.7	
bis(2-Chloroethoxy)methane	0.397	0.393		-1.0	
2,4-Dichlorophenol	0.284	0.284		0.0	20.0
Naphthalene	1.030	1.014		-1.6	
4-Chloroaniline	0.308	0.335		8.8	
Hexachlorobutadiene	0.215	0.210		-2.3	20.0
Caprolactam	0.088	0.088		0.0	
4-Chloro-3-methylphenol	0.318	0.313		-1.6	20.0
2-Methylnaphthalene	0.654	0.641		-2.0	
Hexachlorocyclopentadiene	0.107	0.106	0.050	-0.9	
2,4,6-Trichlorophenol	0.367	0.358		-2.5	20.0
2-Fluorobiphenyl	1.342	1.282		-4.5	
2,4,5-Trichlorophenol	0.399	0.395		-1.0	
1,1-Biphenyl	1.493	1.467		-1.7	
2-Chloronaphthalene	1.131	1.111		-1.8	
2-Nitroaniline	0.363	0.351		-3.3	
Dimethylphthalate	1.317	1.260		-4.3	
Acenaphthylene	1.710	1.672		-2.2	
2,6-Dinitrotoluene	0.299	0.296		-1.0	
3-Nitroaniline	0.292	0.283		-3.1	
Acenaphthene	1.086	1.050		-3.3	20.0
2,4-Dinitrophenol	0.122	0.123	0.050	0.8	
4-Nitrophenol	0.199	0.174	0.050	-12.6	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4892 SAS No.: P4892 SDG No.: P4892

Instrument ID: BNA_F Calibration Date/Time: 11/25/2024 15:49

Lab File ID: BF140604.D Init. Calib. Date(s): 11/21/2024 11/21/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:13 14:18

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.657	1.581		-4.6	
2,4-Dinitrotoluene	0.397	0.389		-2.0	
Diethylphthalate	1.338	1.281		-4.3	
4-Chlorophenyl-phenylether	0.653	0.627		-4.0	
Fluorene	1.330	1.276		-4.1	
4-Nitroaniline	0.306	0.293		-4.2	
4,6-Dinitro-2-methylphenol	0.102	0.109		6.9	
n-Nitrosodiphenylamine	0.591	0.583		-1.4	20.0
2,4,6-Tribromophenol	0.214	0.206		-3.7	
4-Bromophenyl-phenylether	0.206	0.205		-0.5	
Hexachlorobenzene	0.238	0.236		-0.8	
Atrazine	0.166	0.164		-1.2	
Pentachlorophenol	0.105	0.106		1.0	20.0
Phenanthrene	0.961	0.943		-1.9	
Anthracene	0.940	0.931		-1.0	
Carbazole	0.905	0.887		-2.0	
Di-n-butylphthalate	1.044	1.030		-1.3	
Fluoranthene	1.044	1.007		-3.5	20.0
Pyrene	1.849	1.851		0.1	
Terphenyl-d14	1.284	1.258		-2.0	
Butylbenzylphthalate	0.666	0.676		1.5	
3,3-Dichlorobenzidine	0.397	0.401		1.0	
Benzo(a)anthracene	1.324	1.285		-2.9	
Chrysene	1.211	1.210		-0.1	
Bis(2-ethylhexyl)phthalate	0.841	0.846		0.6	
Di-n-octyl phthalate	1.150	1.150		0.0	20.0
Benzo(b)fluoranthene	1.256	1.146		-8.8	
Benzo(k)fluoranthene	1.099	1.148		4.5	
Benzo(a)pyrene	1.021	1.028		0.7	20.0
Indeno(1,2,3-cd)pyrene	1.303	1.241		-4.8	
Dibenzo(a,h)anthracene	1.067	1.017		-4.7	
Benzo(g,h,i)perylene	1.089	1.022		-6.2	
1,2,4,5-Tetrachlorobenzene	0.586	0.573		-2.2	
1,4-Dioxane	0.493	0.505		2.4	20.0
2,3,4,6-Tetrachlorophenol	0.306	0.314		2.6	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

Quant Time: Nov 21 00:08:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.875	152	109793	20.000	ng		0.00
21) Naphthalene-d8	8.151	136	377655	20.000	ng		0.00
39) Acenaphthene-d10	9.904	164	180123	20.000	ng		-0.01
64) Phenanthrene-d10	11.398	188	278778	20.000	ng		0.00
76) Chrysene-d12	14.045	240	208770	20.000	ng		0.00
86) Perylene-d12	15.533	264	217412	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.504	112	621437	96.639	ng		0.01
7) Phenol-d6	6.510	99	786740	90.303	ng		0.00
23) Nitrobenzene-d5	7.434	82	492636	67.966	ng		0.00
42) 2,4,6-Tribromophenol	10.698	330	155928	87.053	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	862994	77.020	ng		0.00
79) Terphenyl-d14	12.980	244	704237	58.553	ng		0.00
Target Compounds							Qvalue
49) Acenaphthylene	9.769	152	54144	3.585	ng		98
52) Acenaphthene	9.939	154	22021	2.159	ng		96
71) Phenanthrene	11.422	178	170137	12.992	ng		99
72) Anthracene	11.474	178	76439	5.956	ng		99
75) Fluoranthene	12.616	202	360462	24.534	ng		99
78) Pyrene	12.845	202	363983	20.383	ng		99
81) Benzo(a)anthracene	14.033	228	266516	19.424	ng	#	82
83) Chrysene	14.068	228	221479	17.691	ng	#	95
87) Indeno(1,2,3-cd)pyrene	17.033	276	73495	5.472	ng		96
88) Benzo(b)fluoranthene	15.098	252	215937m	15.183	ng		
89) Benzo(k)fluoranthene	15.115	252	73990m	6.368	ng		
90) Benzo(a)pyrene	15.468	252	180490	16.342	ng	#	96
91) Dibenzo(a,h)anthracene	17.039	278	22934	2.066	ng	#	82
92) Benzo(g,h,i)perylene	17.486	276	64491	5.682	ng		94

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

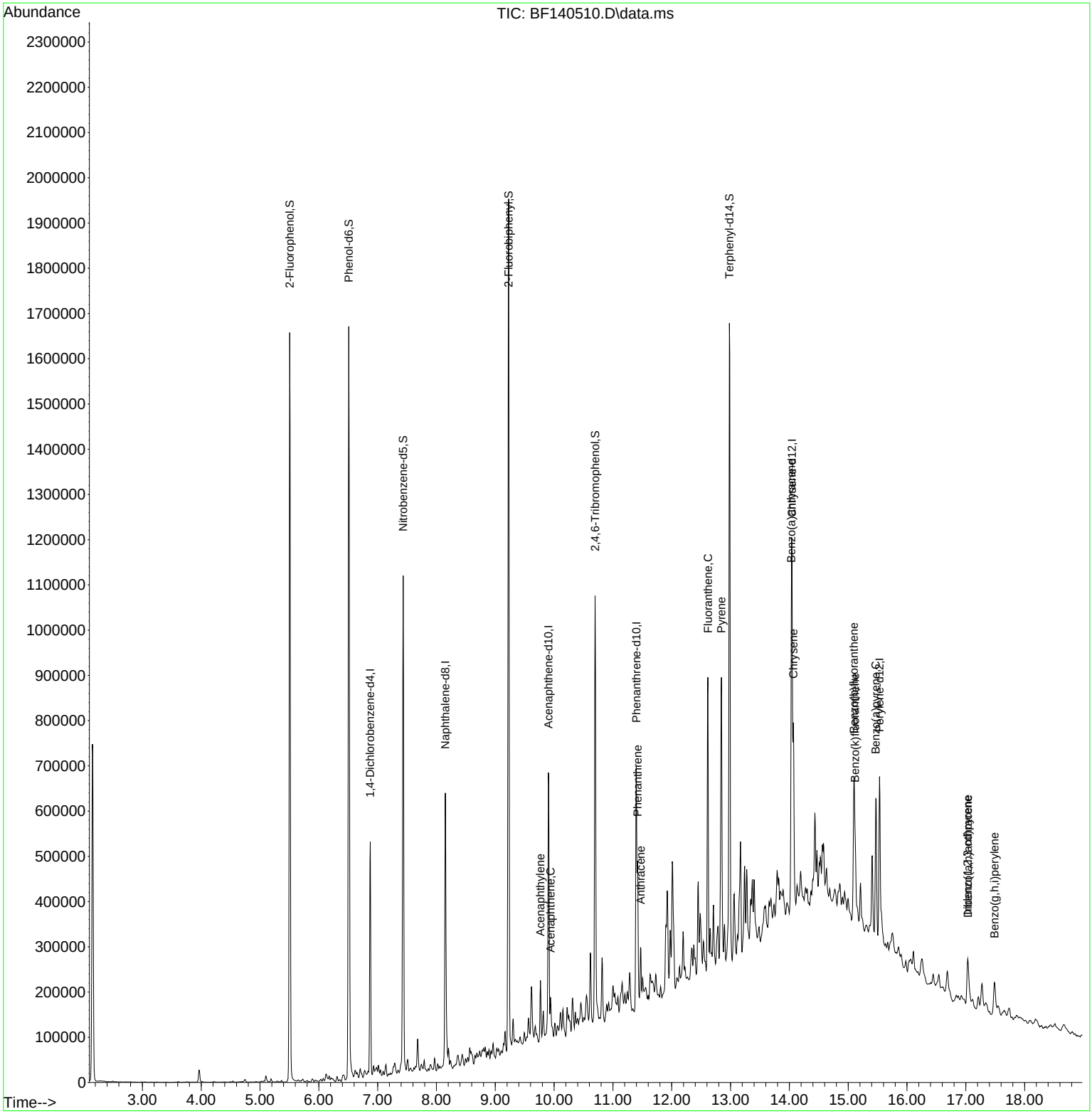
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

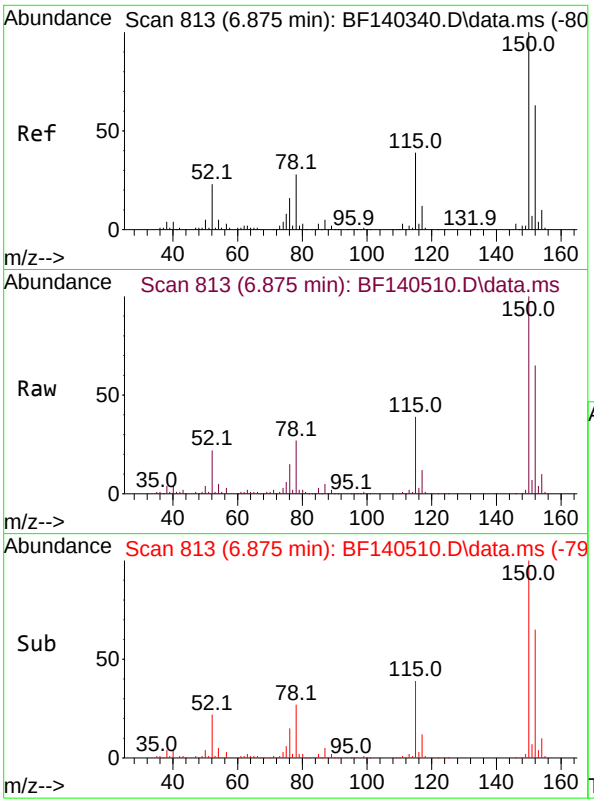
Quant Time: Nov 21 00:08:11 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

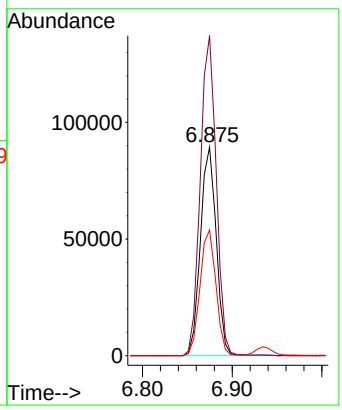




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:152 Resp: 10979

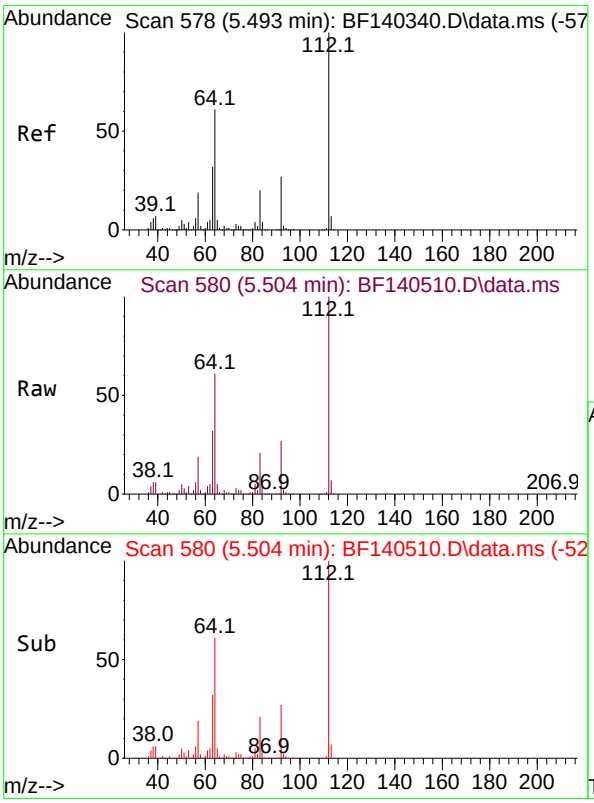
Ion	Ratio	Lower	Upper
152	100		
150	153.4	127.4	191.0
115	60.2	47.4	71.2



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Manual Integrations
APPROVED

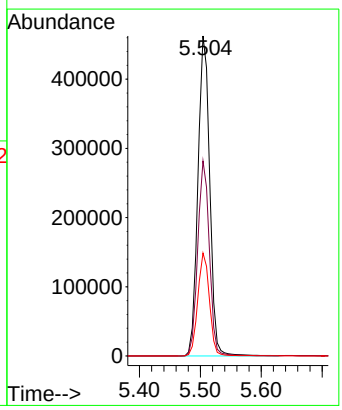
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

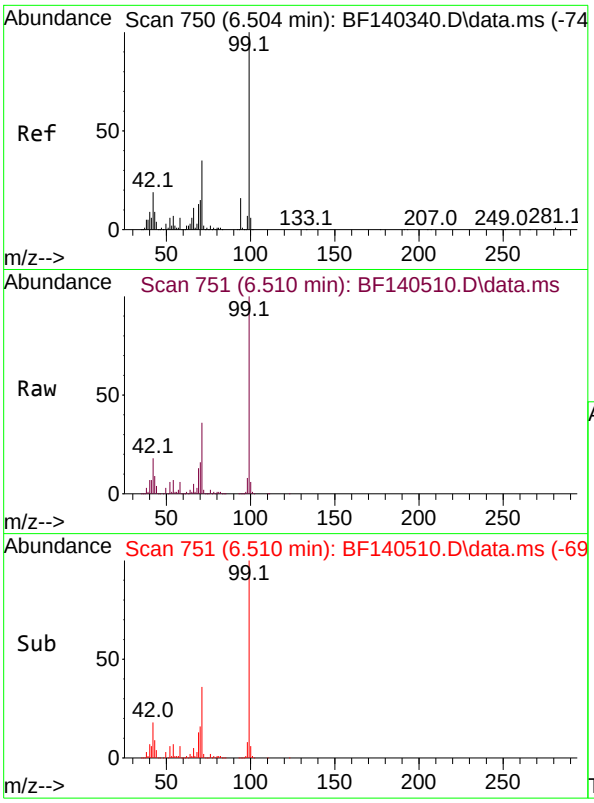


#5
2-Fluorophenol
Concen: 96.639 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.012 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:112 Resp: 621437

Ion	Ratio	Lower	Upper
112	100		
64	60.9	49.2	73.8
63	32.2	25.6	38.4

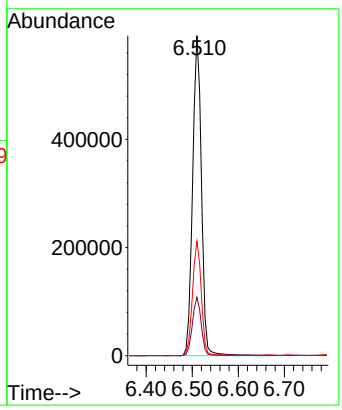




#7
Phenol-d6
Concen: 90.303 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion: 99 Resp: 78674

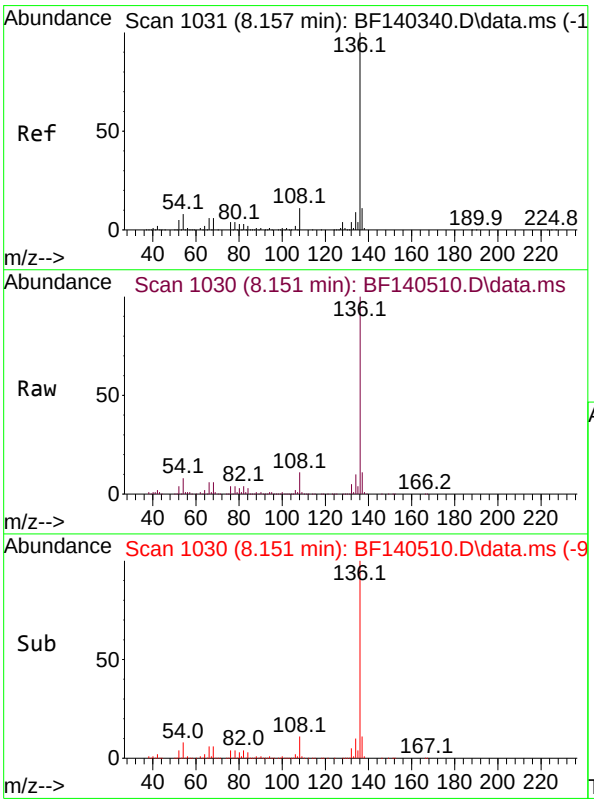
Ion	Ratio	Lower	Upper
99	100		
42	18.2	15.1	22.7
71	35.8	27.9	41.9



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Manual Integrations
APPROVED

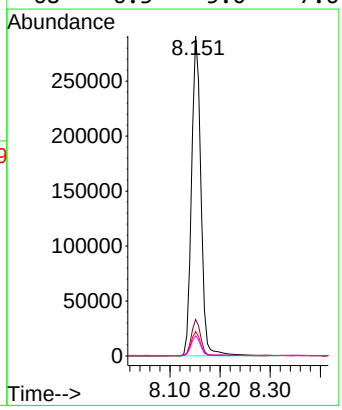
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

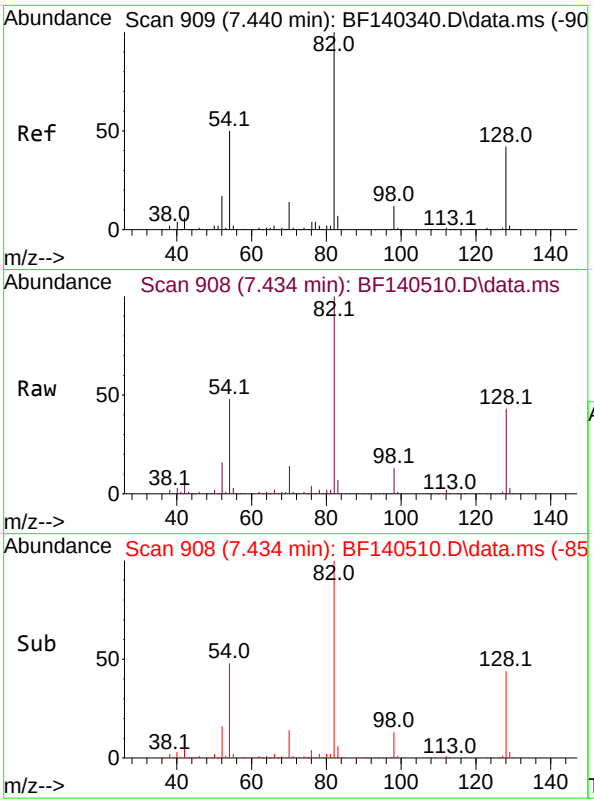


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:136 Resp: 377655

Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.7	13.1
54	7.7	6.5	9.7
68	6.3	5.0	7.6

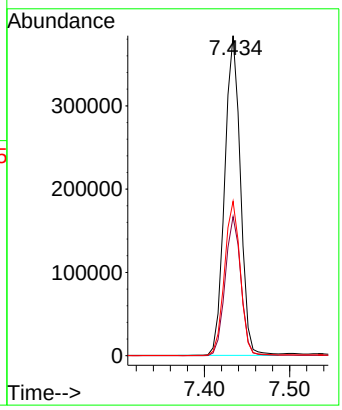




#23
Nitrobenzene-d5
Concen: 67.966 ng
RT: 7.434 min Scan# 9(
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion: 82 Resp: 49263(

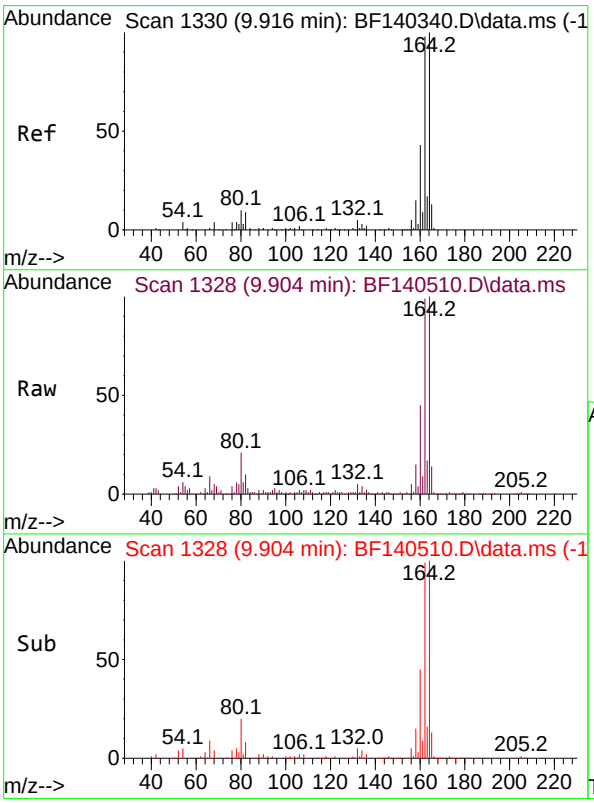
Ion	Ratio	Lower	Upper
82	100		
128	43.5	33.3	49.9
54	48.2	39.8	59.8



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Manual Integrations
APPROVED

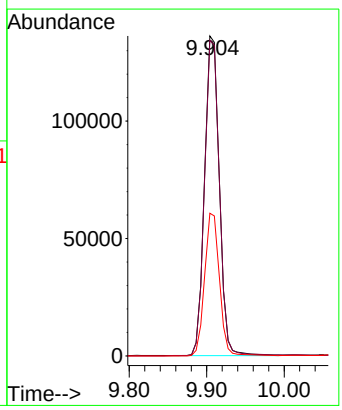
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

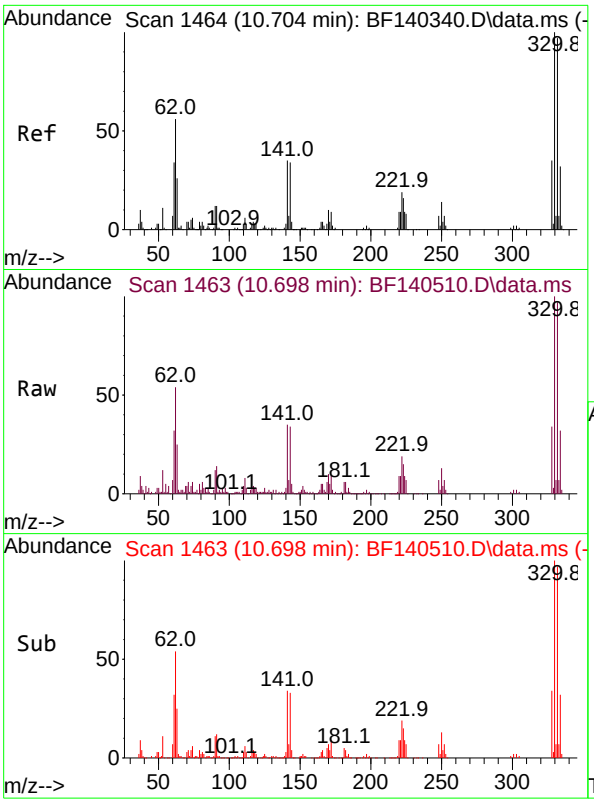


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:164 Resp: 180123

Ion	Ratio	Lower	Upper
164	100		
162	98.6	79.8	119.8
160	44.6	35.4	53.0

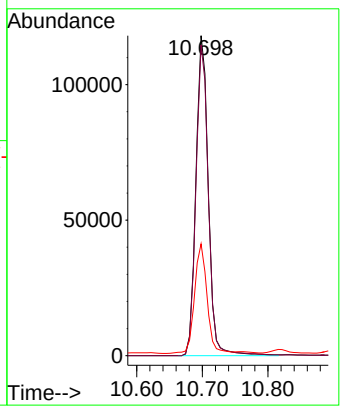




#42
2,4,6-Tribromophenol
Concen: 87.053 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

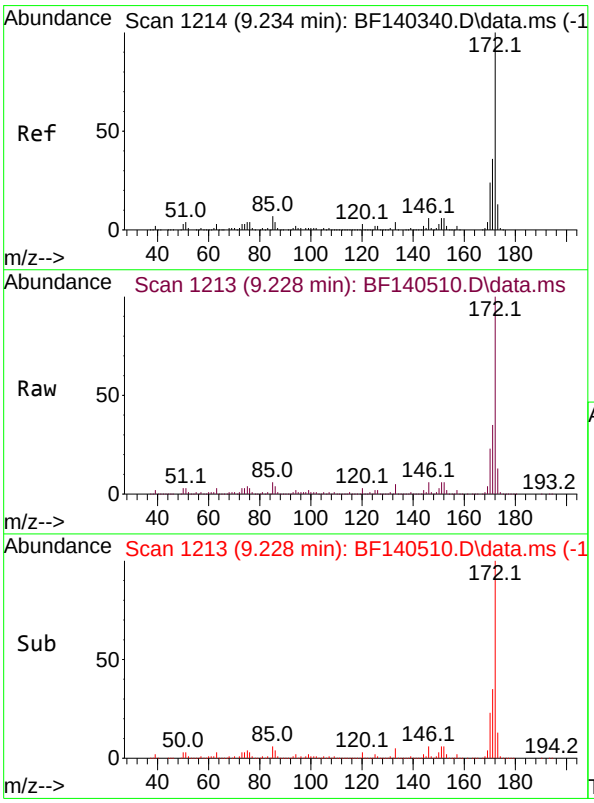
Tgt Ion:330 Resp: 15592

Ion	Ratio	Lower	Upper
330	100		
332	97.2	75.9	113.9
141	34.2	26.9	40.3



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

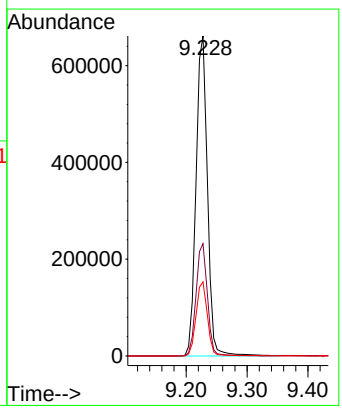
Manual Integrations
APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

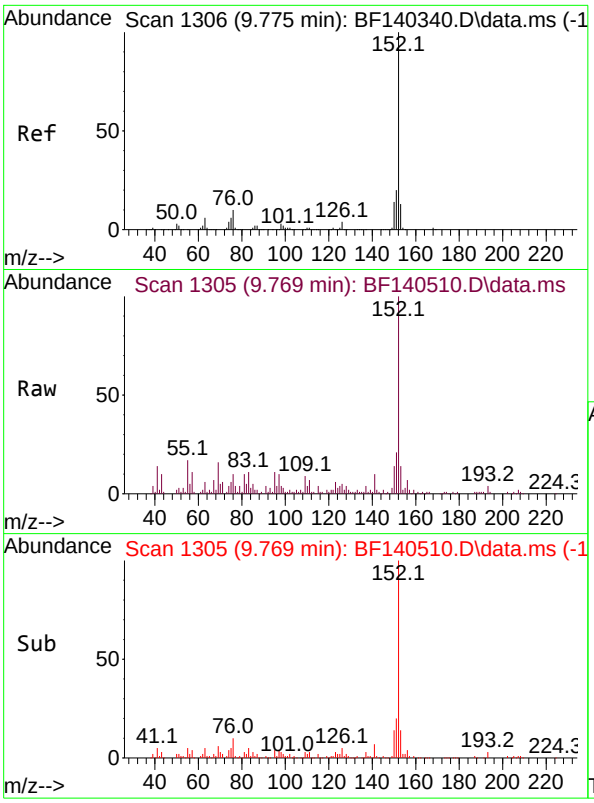


#45
2-Fluorobiphenyl
Concen: 77.020 ng
RT: 9.228 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:172 Resp: 862994

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.5	42.7
170	23.2	19.1	28.7

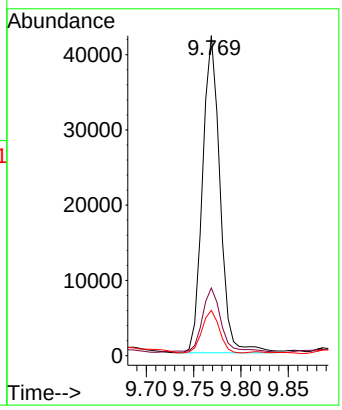




#49
Acenaphthylene
Concen: 3.585 ng
RT: 9.769 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:152 Resp: 5414

Ion	Ratio	Lower	Upper
152	100		
151	21.2	16.1	24.1
153	14.2	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Manual Integrations
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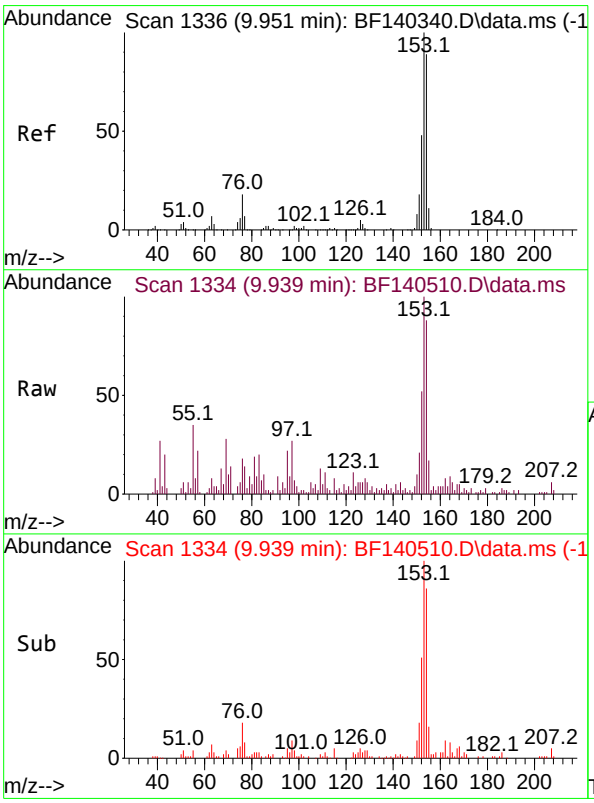
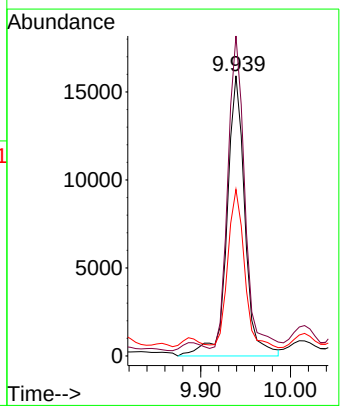
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

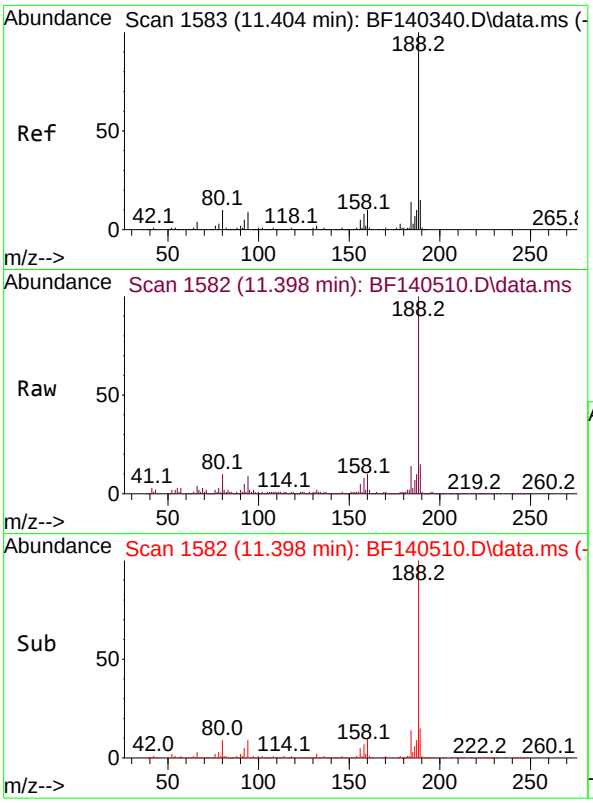


#52
Acenaphthene
Concen: 2.159 ng
RT: 9.939 min Scan# 1334
Delta R.T. -0.012 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:154 Resp: 22021

Ion	Ratio	Lower	Upper
154	100		
153	114.2	89.8	134.8
152	59.4	42.6	64.0

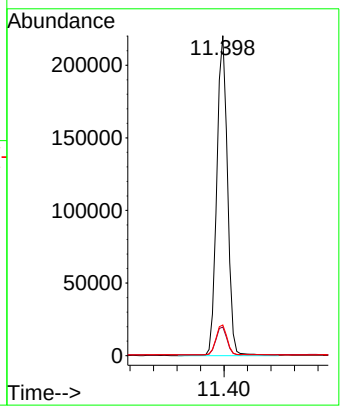




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:188 Resp: 27877

Ion	Ratio	Lower	Upper
188	100		
94	8.9	7.6	11.4
80	9.6	8.0	12.0



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

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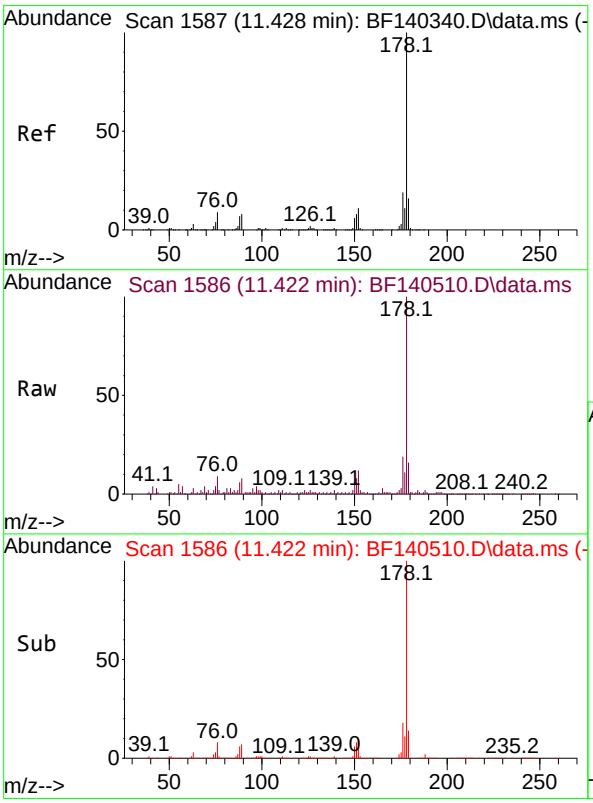
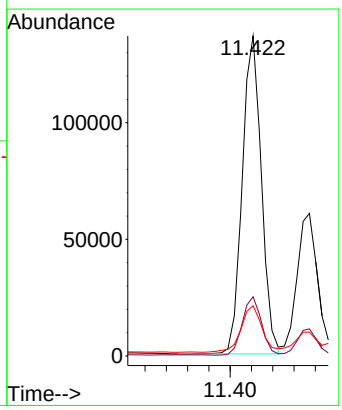
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

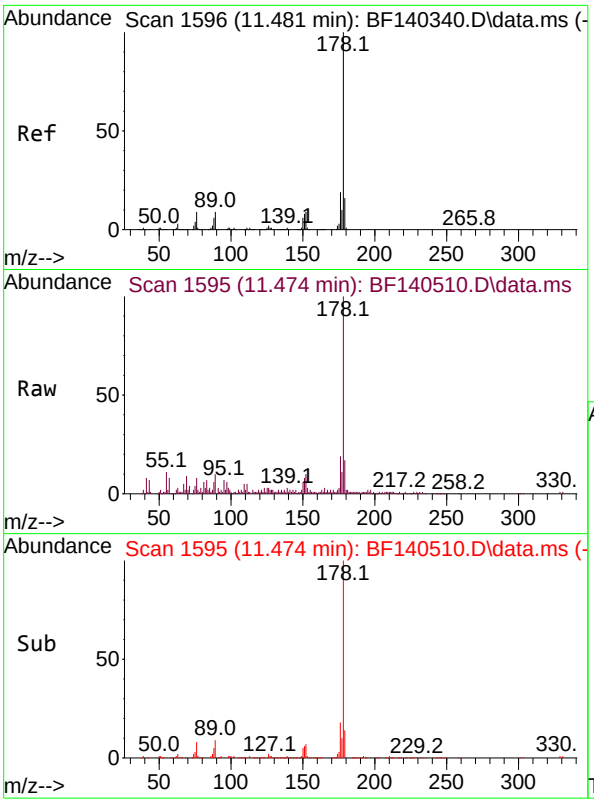


#71
Phenanthrene
Concen: 12.992 ng
RT: 11.422 min Scan# 1586
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:178 Resp: 170137

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.5	23.3
179	15.7	12.4	18.6

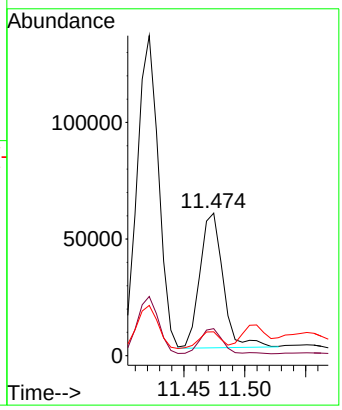




#72
Anthracene
Concen: 5.956 ng
RT: 11.474 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:178 Resp: 7643

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.4	23.0
179	16.8	12.6	18.8



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

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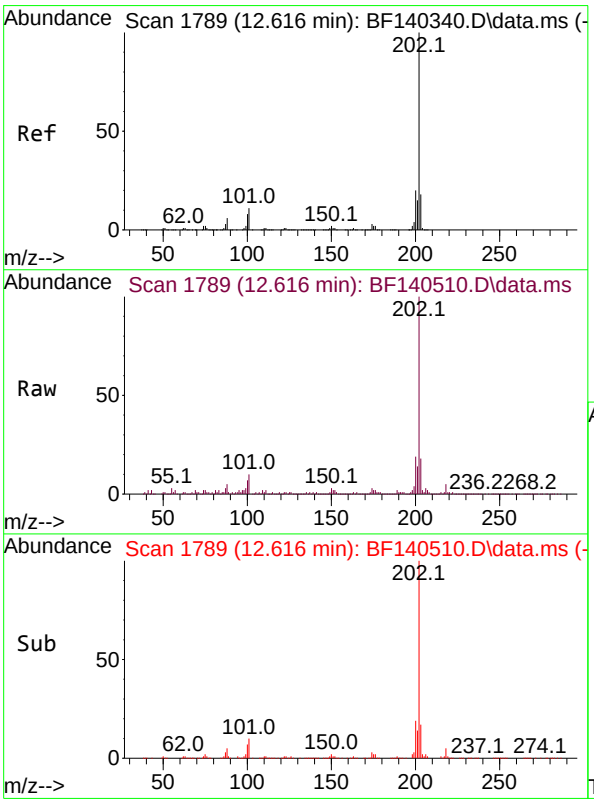
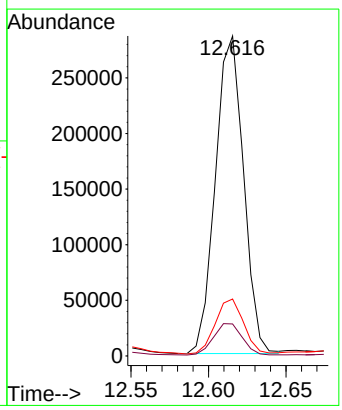
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

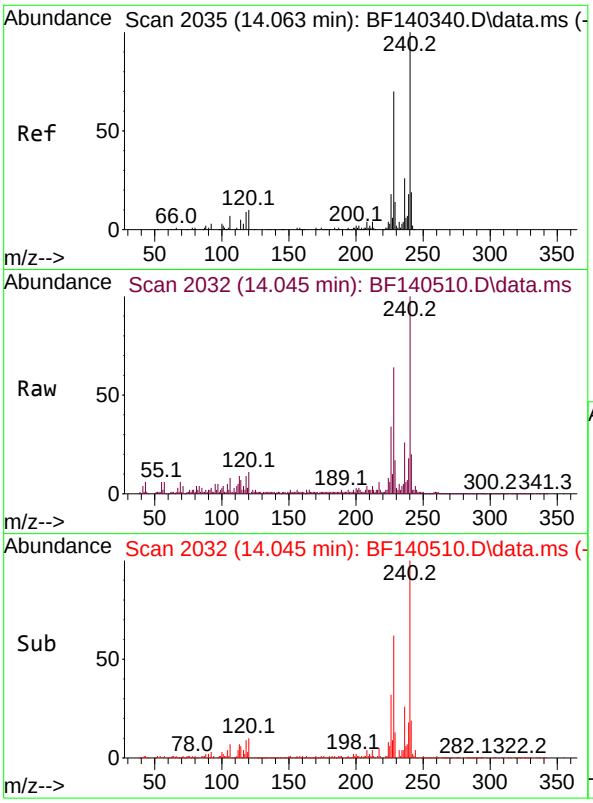


#75
Fluoranthene
Concen: 24.534 ng
RT: 12.616 min Scan# 1789
Delta R.T. -0.000 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:202 Resp: 360462

Ion	Ratio	Lower	Upper
202	100		
101	10.0	0.0	30.7
203	17.8	0.0	37.7

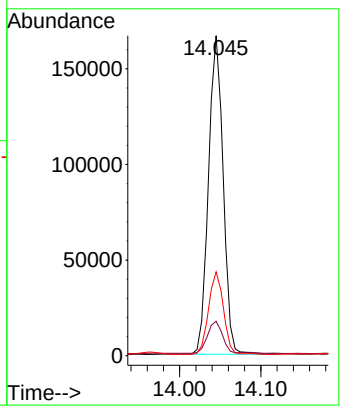




#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:240 Resp: 20877

Ion	Ratio	Lower	Upper
240	100		
120	10.8	8.8	13.2
236	26.2	20.9	31.3



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

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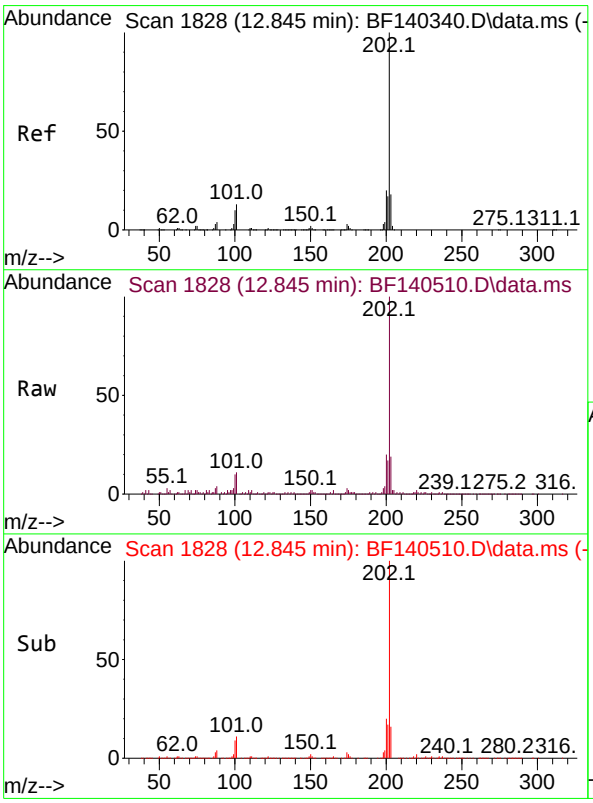
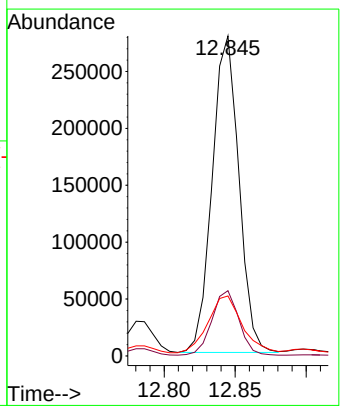
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

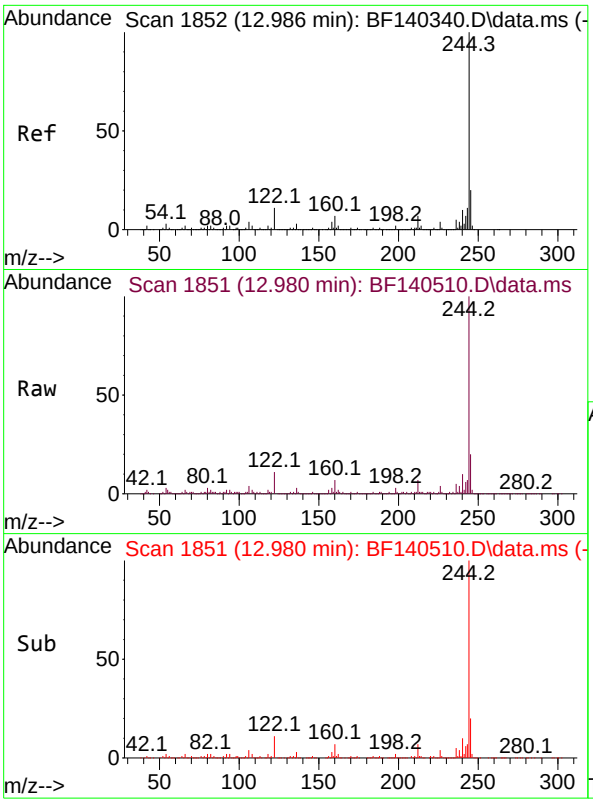


#78
Pyrene
Concen: 20.383 ng
RT: 12.845 min Scan# 1828
Delta R.T. -0.000 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:202 Resp: 363983

Ion	Ratio	Lower	Upper
202	100		
200	20.4	16.2	24.2
203	18.7	14.2	21.4

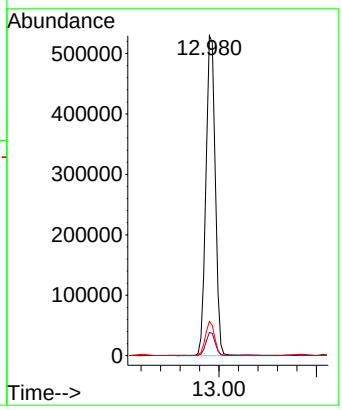




#79
Terphenyl-d14
Concen: 58.553 ng
RT: 12.980 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:244 Resp: 70423

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.8	8.8
122	10.8	8.8	13.2



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

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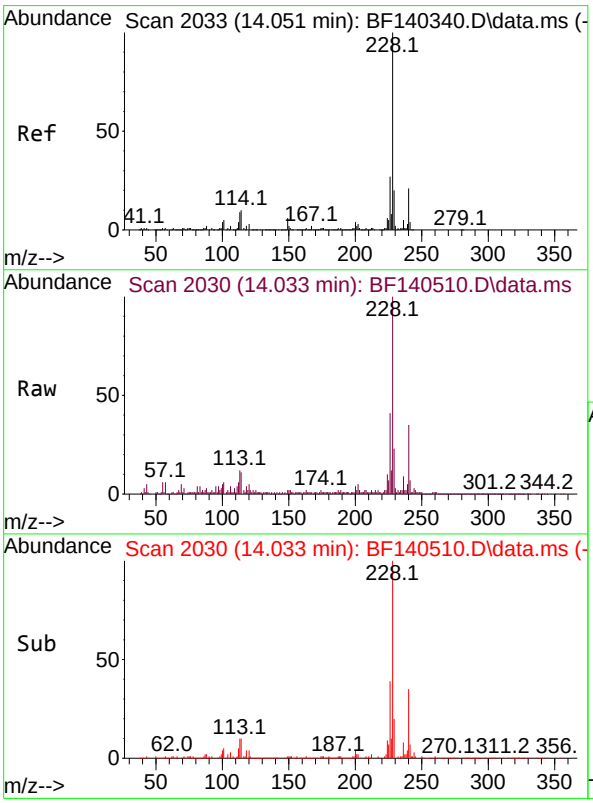
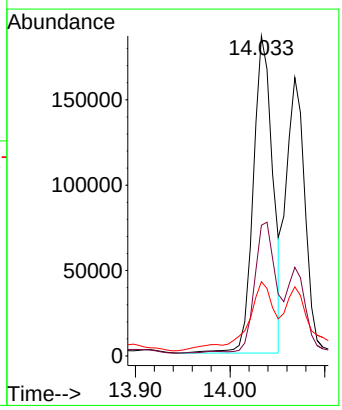
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

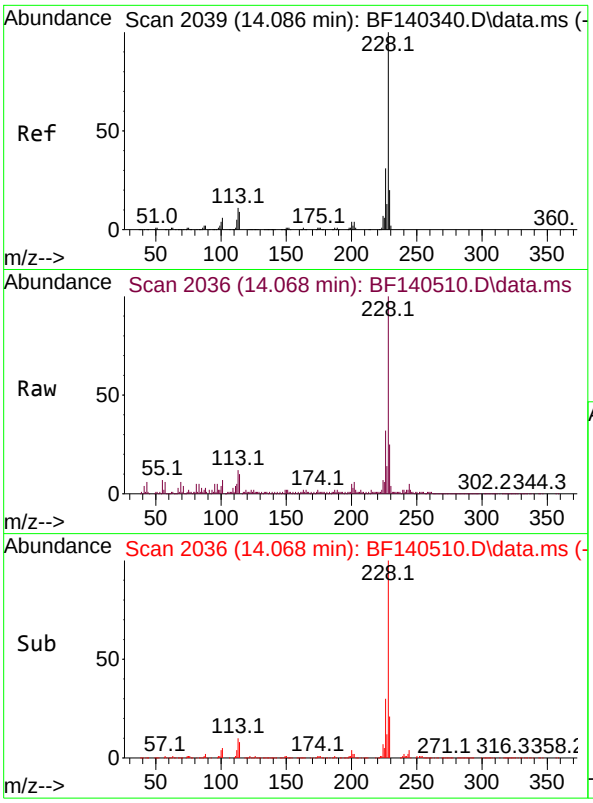


#81
Benzo(a)anthracene
Concen: 19.424 ng
RT: 14.033 min Scan# 2030
Delta R.T. -0.006 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:228 Resp: 266516

Ion	Ratio	Lower	Upper
228	100		
226	40.8	22.2	33.4#
229	23.2	15.8	23.6

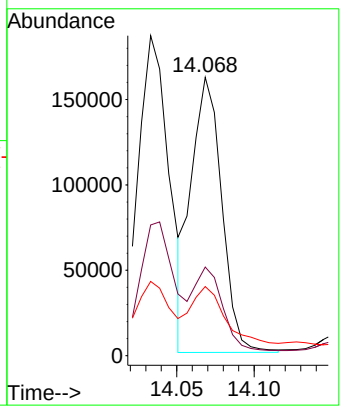




#83
Chrysene
Concen: 17.691 ng
RT: 14.068 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:228 Resp: 22147

Ion	Ratio	Lower	Upper
228	100		
226	31.8	24.5	36.7
229	24.8	16.0	24.0



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Manual Integrations
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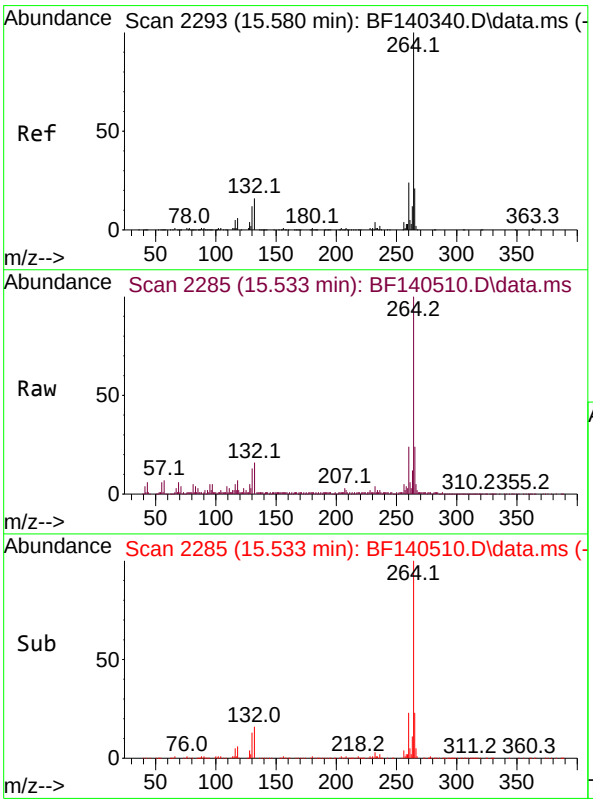
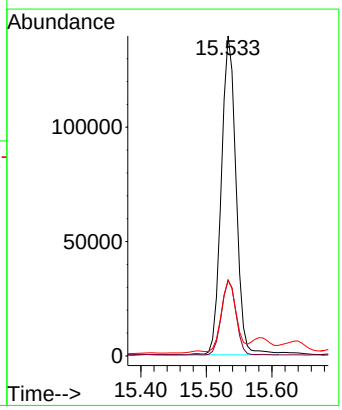
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

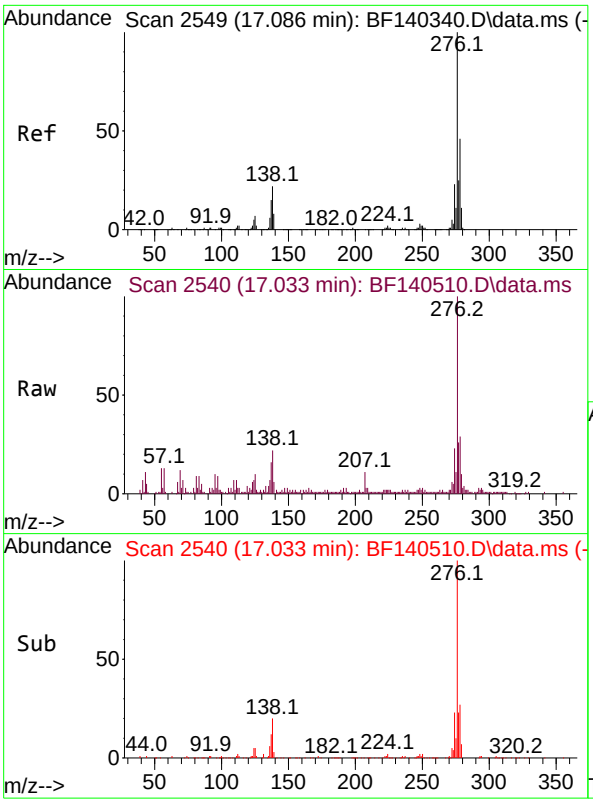


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2285
Delta R.T. -0.024 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:264 Resp: 217412

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.2	28.8
265	23.7	17.1	25.7

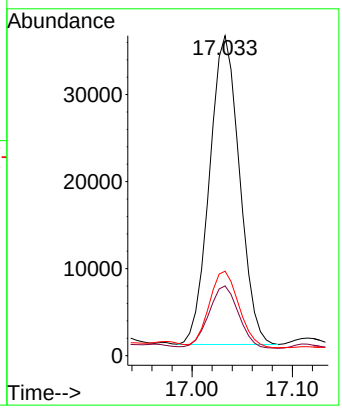




#87
Indeno(1,2,3-cd)pyrene
Concen: 5.472 ng
RT: 17.033 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:276 Resp: 7349

Ion	Ratio	Lower	Upper
276	100		
138	20.2	18.8	28.2
277	24.9	20.2	30.2



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

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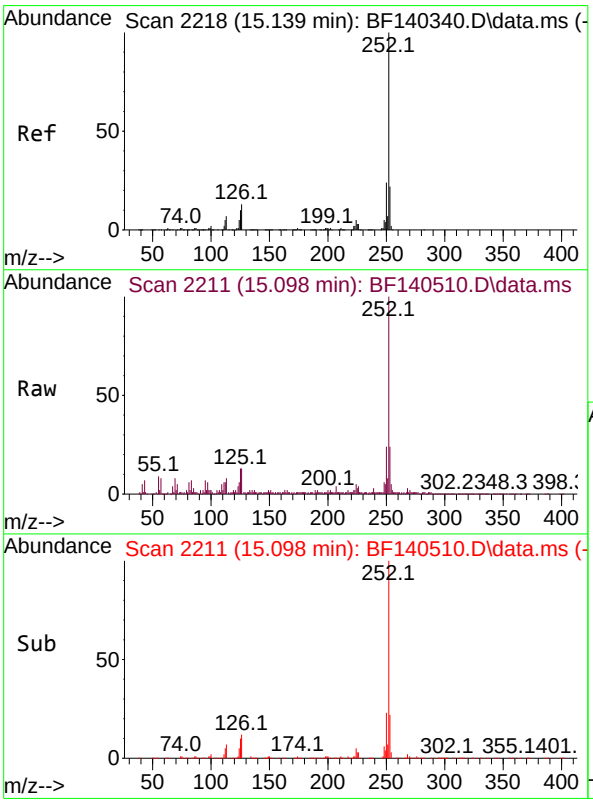
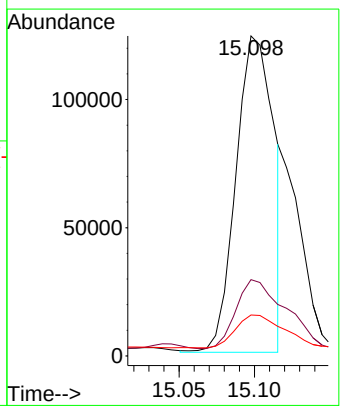
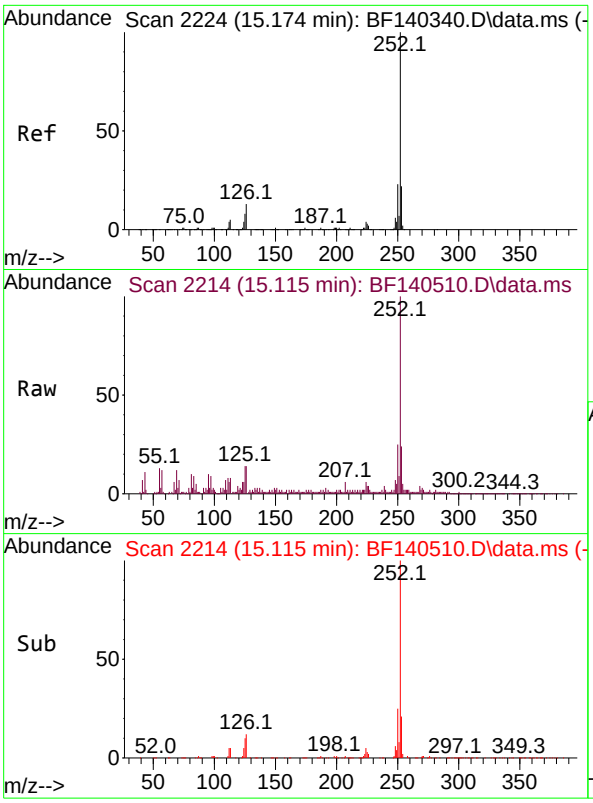


#88
Benzo(b)fluoranthene
Concen: 15.183 ng m
RT: 15.098 min Scan# 2211
Delta R.T. -0.018 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:252 Resp: 215937

Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.5	26.3
125	12.8	8.0	12.0#

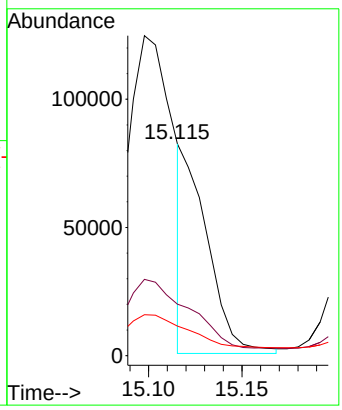




#89
Benzo(k)fluoranthene
Concen: 6.368 ng m
RT: 15.115 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:252 Resp: 7399

Ion	Ratio	Lower	Upper
252	100		
253	24.3	17.3	25.9
125	14.0	7.4	11.2#



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

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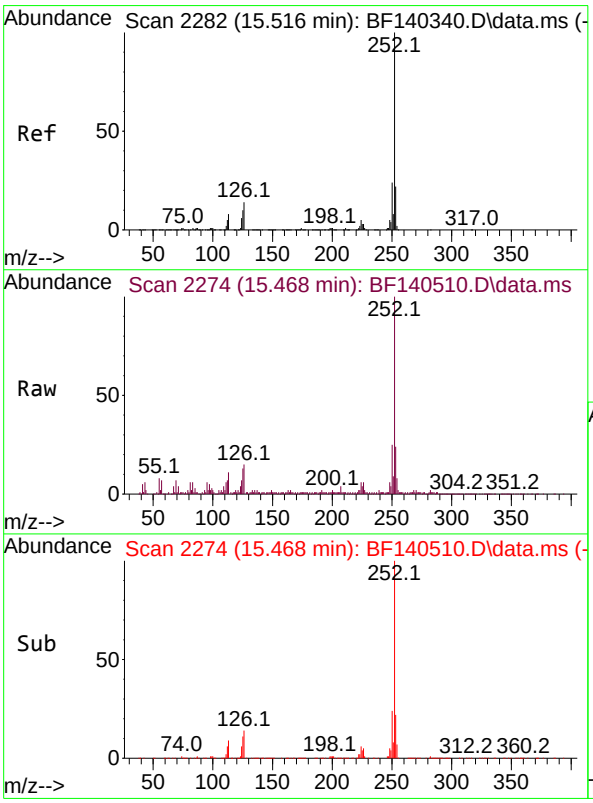
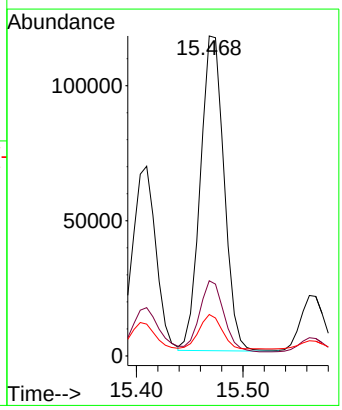
Supervised By :mohammad ahmed 11/22/2024

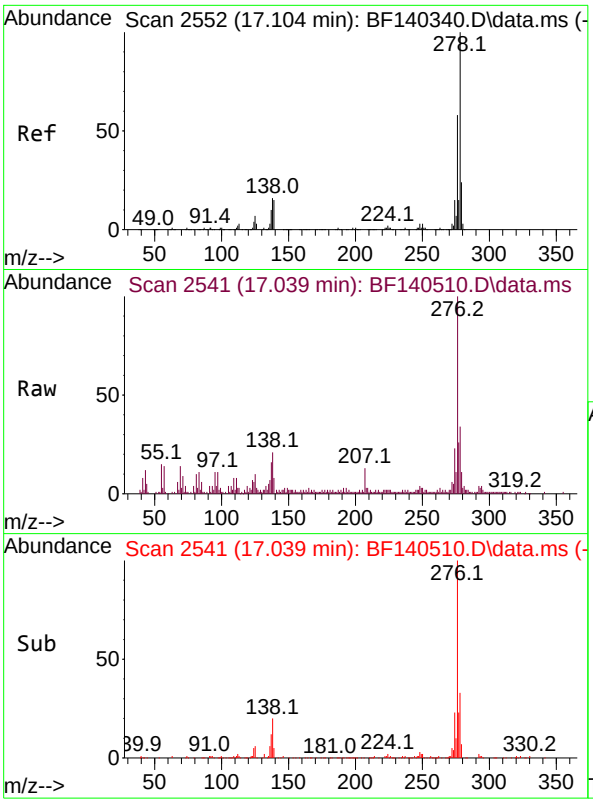


#90
Benzo(a)pyrene
Concen: 16.342 ng
RT: 15.468 min Scan# 2274
Delta R.T. -0.024 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:252 Resp: 180490

Ion	Ratio	Lower	Upper
252	100		
253	23.5	17.8	26.6
125	13.0	8.4	12.6#

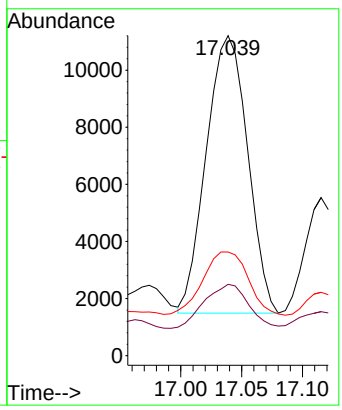




#91
Dibenzo(a,h)anthracene
Concen: 2.066 ng
RT: 17.039 min Scan# 2
Delta R.T. -0.035 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:278 Resp: 2293

Ion	Ratio	Lower	Upper
278	100		
139	22.3	11.8	17.8
279	32.4	18.9	28.3



Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Manual Integrations
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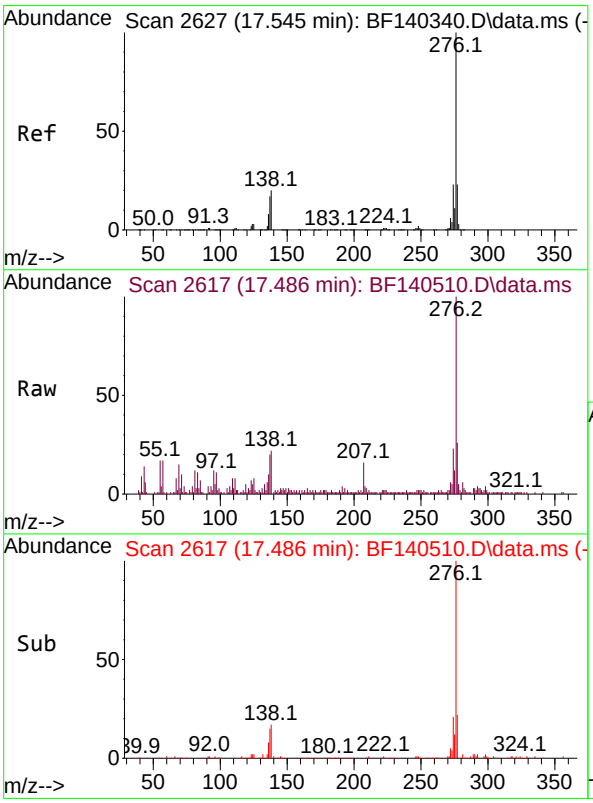
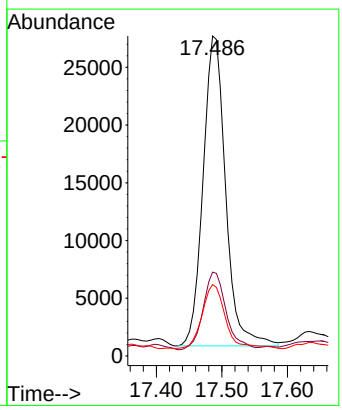
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



#92
Benzo(g,h,i)perylene
Concen: 5.682 ng
RT: 17.486 min Scan# 2617
Delta R.T. -0.030 min
Lab File: BF140510.D
Acq: 20 Nov 2024 20:02

Tgt Ion:276 Resp: 64491

Ion	Ratio	Lower	Upper
276	100		
277	26.2	18.6	28.0
138	22.3	16.0	24.0



Sample Results: **BF140510.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

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-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140510.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	22	rVB	745044	1211511	49.17%	4.404%
2	3.963	309	318	325	rBV	26837	45115	1.83%	0.164%
3	5.504	569	580	596	rBV	1657052	2216761	89.97%	8.059%
4	6.122	680	685	691	rBV3	14881	30246	1.23%	0.110%
5	6.422	729	736	741	rBV5	14458	40012	1.62%	0.145%
6	6.510	741	751	764	rBV	1665845	2295549	93.16%	8.345%
7	6.704	780	784	792	rBV4	19351	39289	1.59%	0.143%
8	6.781	792	797	802	rBV3	15628	33723	1.37%	0.123%
9	6.875	808	813	819	rVB	514534	646557	26.24%	2.351%
10	6.934	819	823	826	rBV3	19368	28403	1.15%	0.103%
11	7.139	853	858	862	rVB3	25838	41195	1.67%	0.150%
12	7.292	881	884	890	rVB5	22758	37206	1.51%	0.135%
13	7.434	897	908	917	rBV	1098691	1465885	59.49%	5.329%
14	7.510	917	921	925	rVB4	24666	39379	1.60%	0.143%
15	7.681	946	950	956	rVB3	69776	102396	4.16%	0.372%
16	7.898	983	987	995	rBV7	13104	28474	1.16%	0.104%
17	7.969	995	999	1004	rVB2	27312	37639	1.53%	0.137%
18	8.151	1023	1030	1037	rBV	604207	857290	34.79%	3.117%
19	8.204	1037	1039	1042	rVV	42952	48473	1.97%	0.176%
20	8.239	1042	1045	1051	rVB8	17616	28576	1.16%	0.104%
21	8.363	1061	1066	1072	rVB6	23170	48604	1.97%	0.177%
22	8.439	1075	1079	1084	rVB5	24302	42296	1.72%	0.154%
23	8.569	1097	1101	1103	rBV	29646	40049	1.63%	0.146%
24	8.657	1112	1116	1118	rBV4	19082	26776	1.09%	0.097%
25	8.963	1165	1168	1175	rVB	32292	47586	1.93%	0.173%
26	9.028	1175	1179	1181	rBV4	21967	32004	1.30%	0.116%
27	9.169	1200	1203	1207	rVB	42449	51936	2.11%	0.189%
28	9.228	1207	1213	1222	rBV	1883475	2464013	100.00%	8.958%
29	9.304	1222	1226	1230	rBV2	57206	79891	3.24%	0.290%
30	9.563	1267	1270	1275	rBV	42969	60418	2.45%	0.220%
31	9.616	1275	1279	1286	rVB3	111655	180741	7.34%	0.657%
32	9.769	1301	1305	1309	rBV	134279	171296	6.95%	0.623%
33	9.816	1309	1313	1317	rVV2	56833	77315	3.14%	0.281%
34	9.904	1323	1328	1332	rBV	565808	749131	30.40%	2.723%
35	9.939	1332	1334	1343	rVB2	86800	127166	5.16%	0.462%
36	10.010	1343	1346	1350	rBV2	29163	42191	1.71%	0.153%

Sample Results: **BF140510.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

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-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	10.104	1360	1362	1366	rVB2	36883	46029	1.87%	0.167%
38	10.151	1367	1370	1378	rVB4	59569	100752	4.09%	0.366%
39	10.222	1378	1382	1385	rBV2	64025	98662	4.00%	0.359%
40	10.316	1394	1398	1403	rBV5	72005	120901	4.91%	0.440%
41	10.363	1403	1406	1409	rBV2	35774	44334	1.80%	0.161%
42	10.551	1434	1438	1444	rVB2	54385	103081	4.18%	0.375%
43	10.616	1445	1449	1456	rVB2	153223	216944	8.80%	0.789%
44	10.698	1458	1463	1474	rVB	934956	1240435	50.34%	4.510%
45	10.816	1479	1483	1490	rVB	141440	211936	8.60%	0.770%
46	11.286	1560	1563	1569	rVB3	83931	134224	5.45%	0.488%
47	11.398	1577	1582	1584	rBV	540303	728136	29.55%	2.647%
48	11.469	1591	1594	1598	rBV	109766	136843	5.55%	0.497%
49	11.633	1619	1622	1626	rBV3	49502	88957	3.61%	0.323%
50	11.904	1664	1668	1669	rBV	136730	184255	7.48%	0.670%
51	11.921	1669	1671	1676	rVV2	213321	307174	12.47%	1.117%
52	11.974	1677	1680	1683	rVV	126999	189625	7.70%	0.689%
53	12.010	1683	1686	1695	rVB	280839	551709	22.39%	2.006%
54	12.192	1714	1717	1721	rBV	87082	101572	4.12%	0.369%
55	12.451	1757	1761	1764	rBV	196818	280083	11.37%	1.018%
56	12.616	1784	1789	1793	rBV	649994	839150	34.06%	3.051%
57	12.651	1793	1795	1798	rVV2	88215	111353	4.52%	0.405%
58	12.710	1802	1805	1811	rVB	131278	177513	7.20%	0.645%
59	12.845	1822	1828	1834	rBV	616327	955641	38.78%	3.474%
60	12.980	1847	1851	1859	rVB	1408297	1949517	79.12%	7.087%
61	13.063	1861	1865	1871	rVB3	132775	229936	9.33%	0.836%
62	13.168	1877	1883	1888	rVB	244471	457078	18.55%	1.662%
63	13.239	1891	1895	1898	rVV2	172729	245419	9.96%	0.892%
64	13.274	1898	1901	1908	rVB2	155617	236592	9.60%	0.860%
65	13.398	1920	1922	1931	rVB3	129036	204877	8.31%	0.745%
66	14.039	2026	2031	2035	rBV2	807300	1430342	58.05%	5.200%
67	15.098	2207	2211	2220	rBV	285313	598543	24.29%	2.176%
68	15.409	2260	2264	2270	rVB	168880	259882	10.55%	0.945%
69	15.468	2270	2274	2280	rVV	305169	472884	19.19%	1.719%
70	15.533	2281	2285	2300	rVB2	373749	714526	29.00%	2.598%
71	17.033	2535	2540	2550	rBV2	94022	222775	9.04%	0.810%

Sum of corrected areas: 27506772

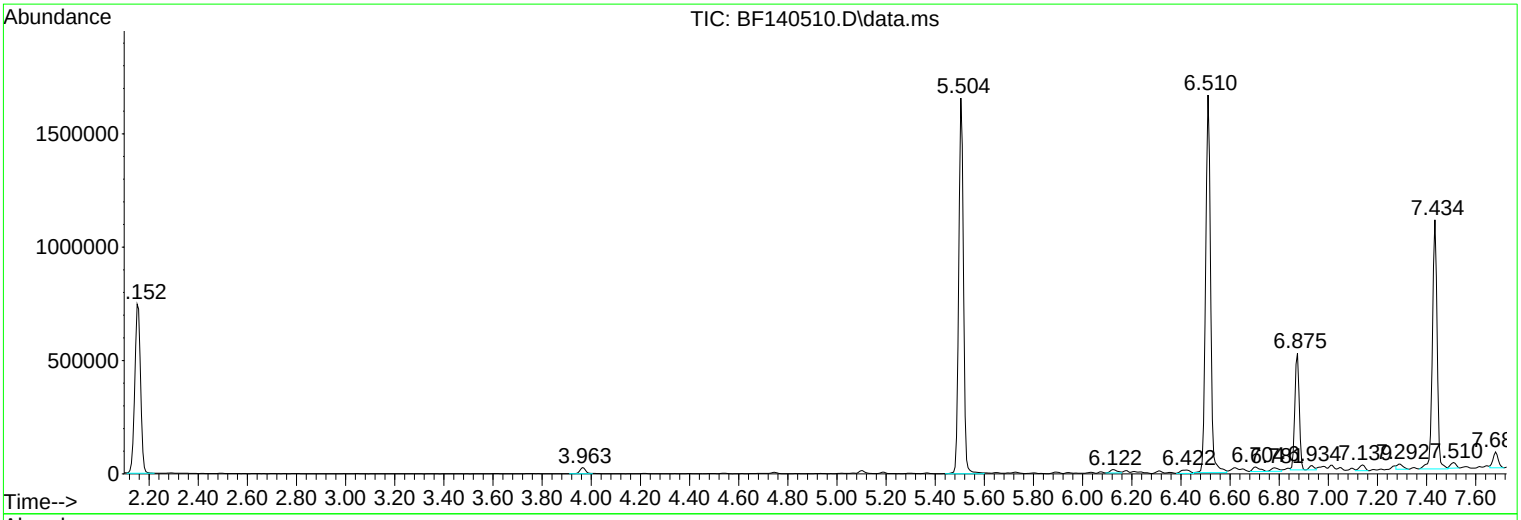
Sample Results: **BF140510.D**

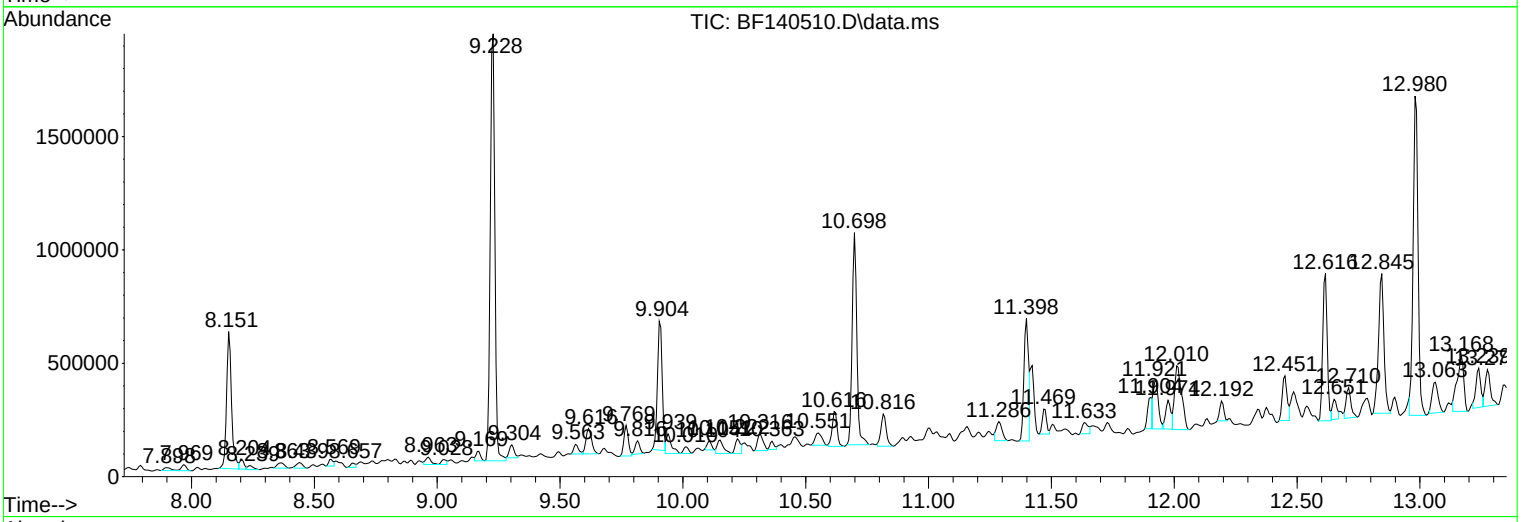
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

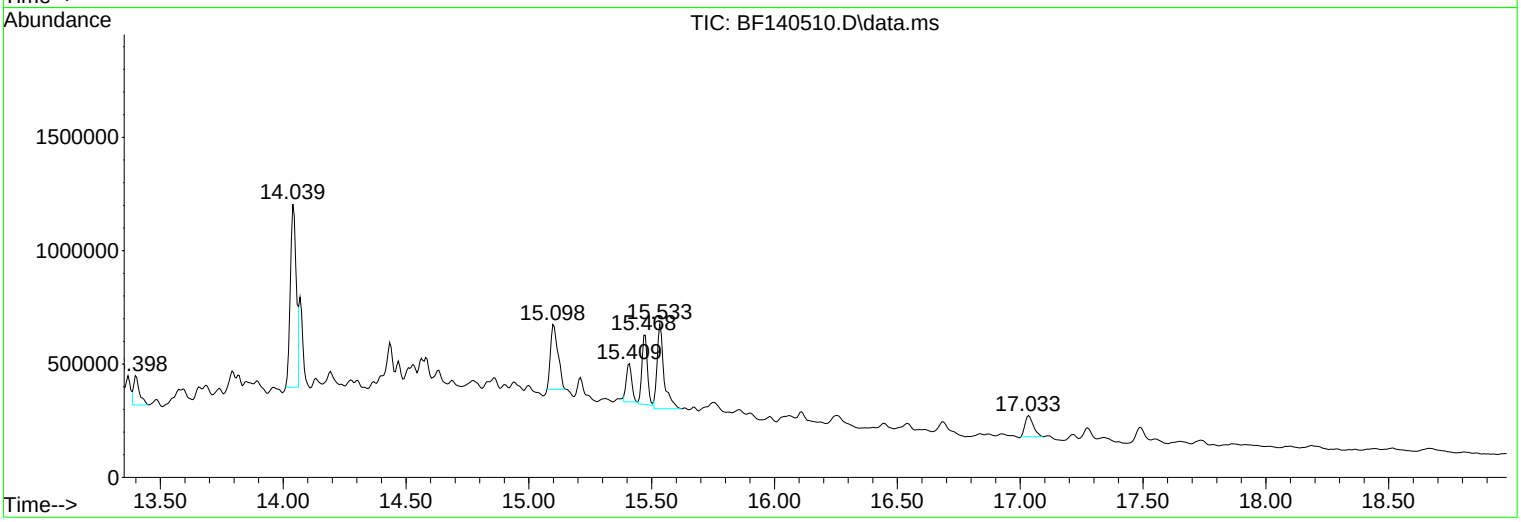
Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.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\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

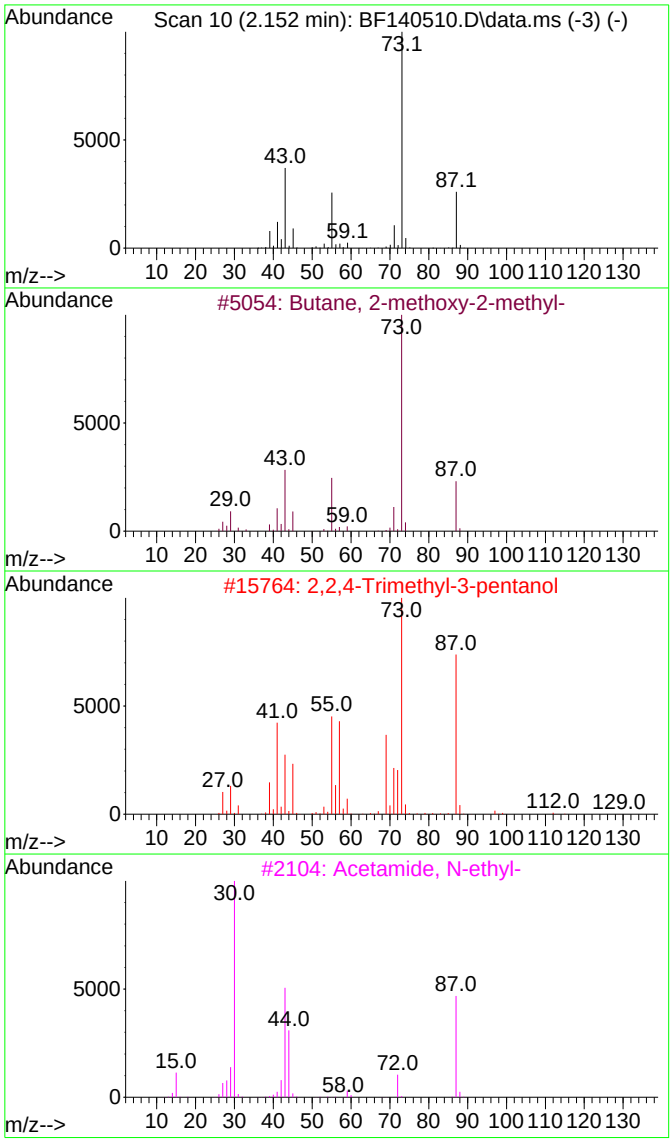
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

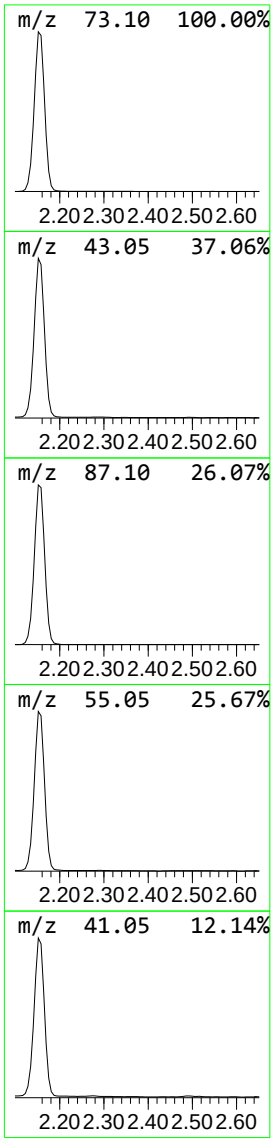
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.152	37.48 ng	1211510	1,4-Dichlorobenzene-d4	6.875

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	40
3	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	22
4	1,3-Dioxolane, 2-propyl-	116	C6H12O2	003390-13-4	17
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

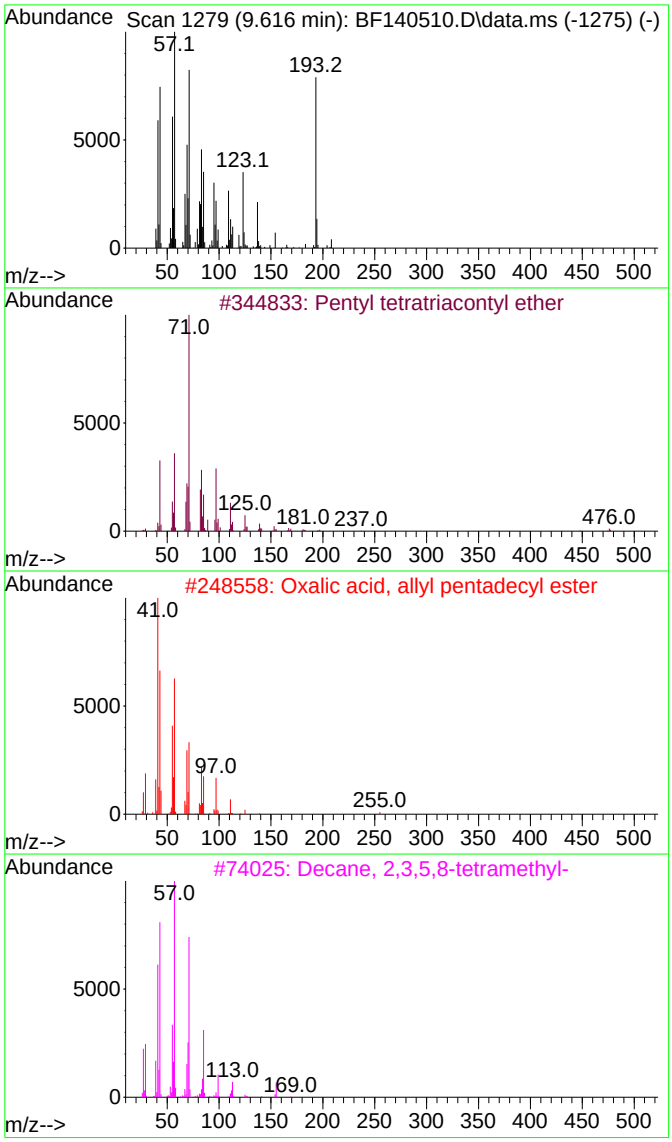
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

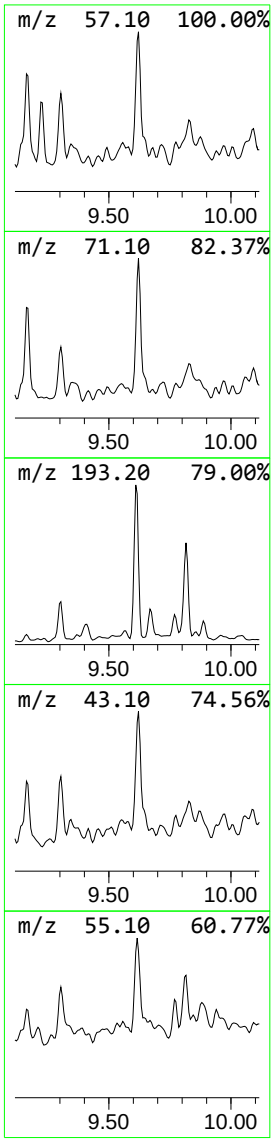
****

Peak Number 2 unknown9.616 Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.616	4.83 ng	180741	Acenaphthene-d10	9.904

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentyl tetratriacontyl ether	565	C39H80O	1010406-42-7	27
2	Oxalic acid, allyl pentadecyl ester	340	C20H36O4	1000309-24-3	22
3	Decane, 2,3,5,8-tetramethyl-	198	C14H30	192823-15-7	18
4	4-Amino-N-hydroxypyrazolo[3,2-c]...	193	C6H7N7O	1000443-50-2	18
5	2,6,10-Trimethylundeca-1,3-diene	194	C14H26	1000222-09-1	15





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

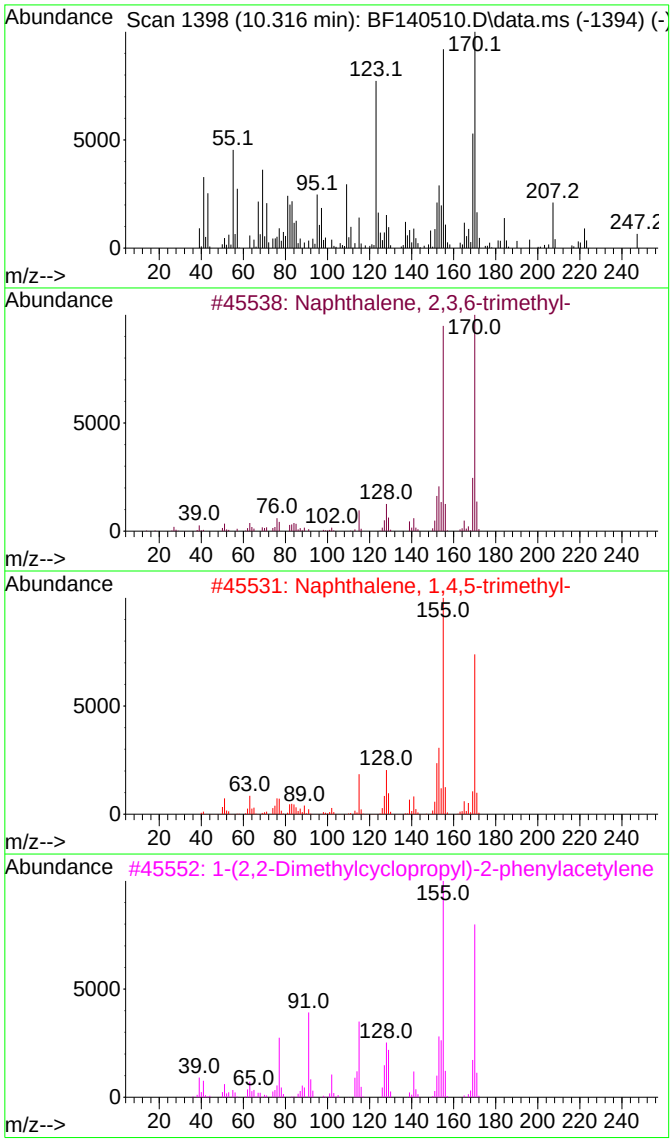
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

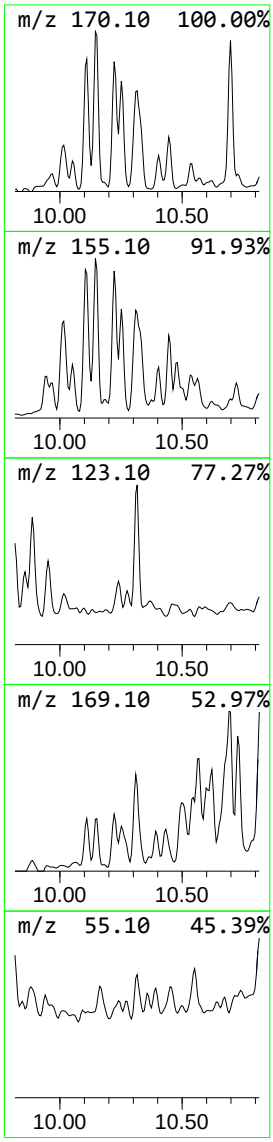
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 3 Naphthalene, 2,3,6-trimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.316	3.23 ng	120901	Acenaphthene-d10	9.904

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3,6-trimethyl-	170	C13H14	000829-26-5	91
2	Naphthalene, 1,4,5-trimethyl-	170	C13H14	002131-41-1	90
3	1-(2,2-Dimethylcyclopropyl)-2-ph...	170	C13H14	1000294-91-1	90
4	Naphthalene, 1,6,7-trimethyl-	170	C13H14	002245-38-7	90
5	4,6,8-Trimethylazulene	170	C13H14	000941-81-1	78





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

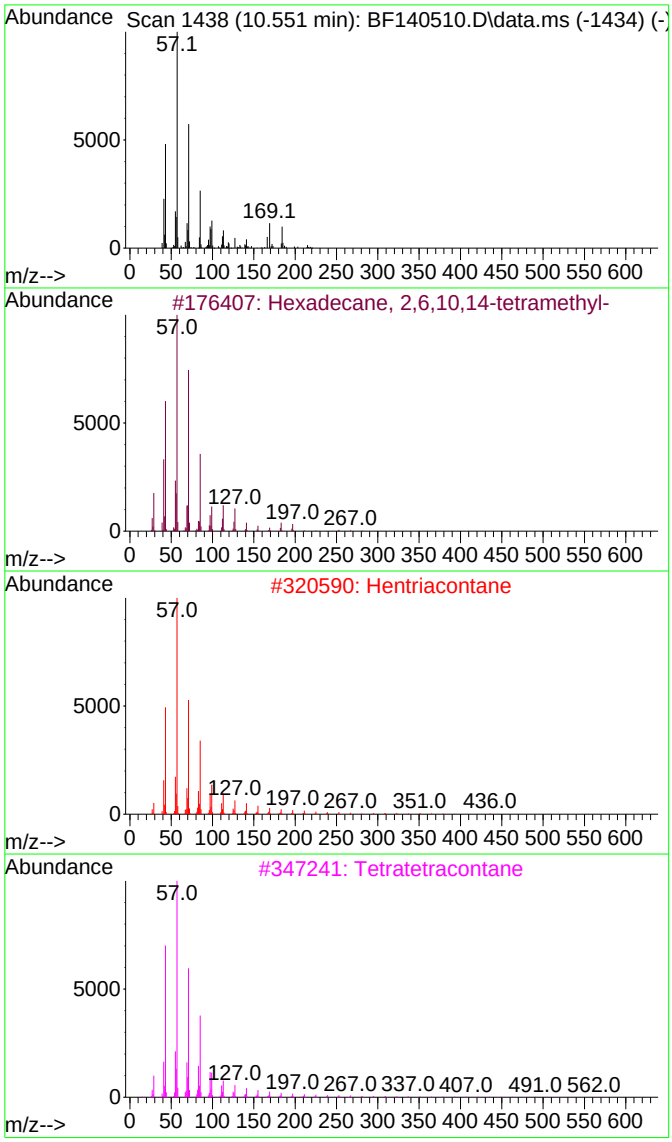
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

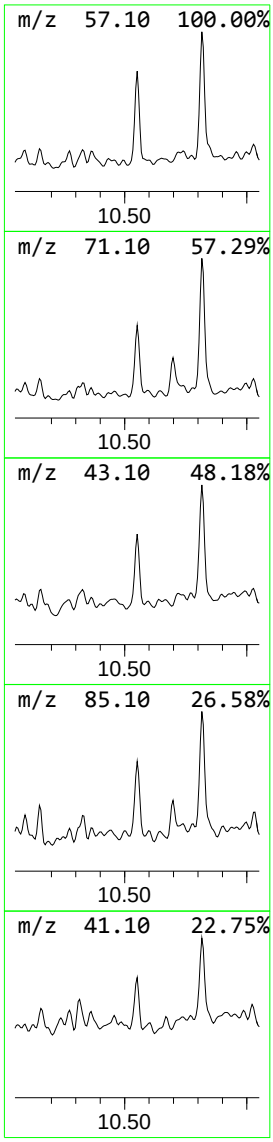
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 4 Hexadecane, 2,6,10,14-tetra... Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.551	2.75 ng	103081	Acenaphthene-d10	9.904

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	72
2	Hentriacontane	437	C31H64	000630-04-6	72
3	Tetratetracontane	619	C44H90	007098-22-8	72
4	Octacosane	394	C28H58	000630-02-4	58
5	Tetracosane	338	C24H50	000646-31-1	52





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

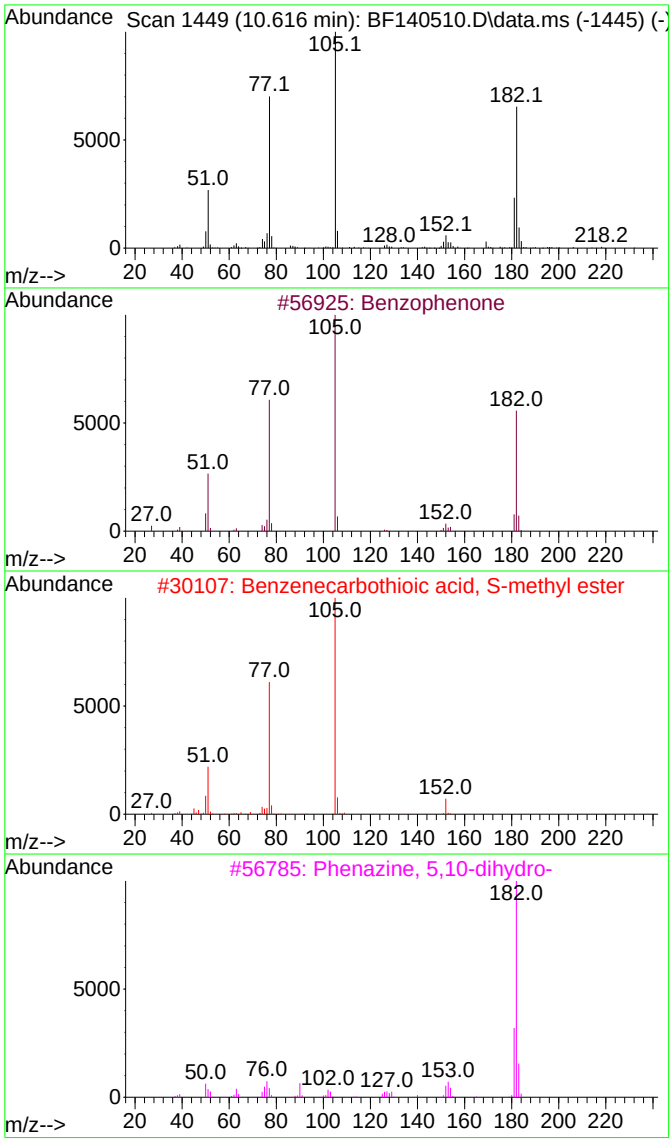
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

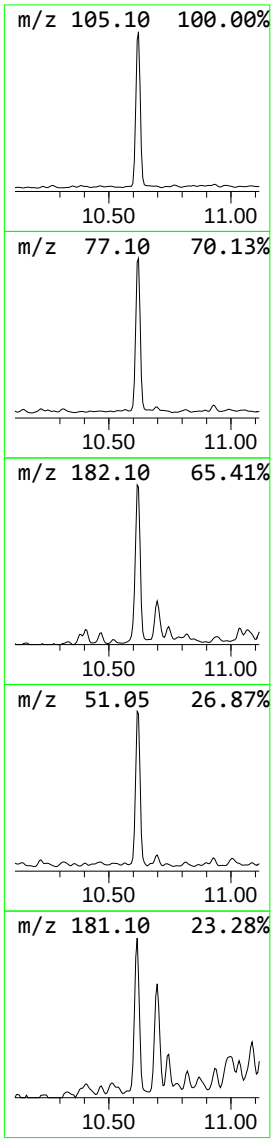
****

Peak Number 5 Benzophenone Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.616	5.79 ng	216944	Acenaphthene-d10	9.904

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	95
2	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	49
3	Phenazine, 5,10-dihydro-	182	C12H10N2	000613-32-1	43
4	Ethanedione, diphenyl-	210	C14H10O2	000134-81-6	38
5	1-Propanone, 3-chloro-1-phenyl-	168	C9H9ClO	000936-59-4	38





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

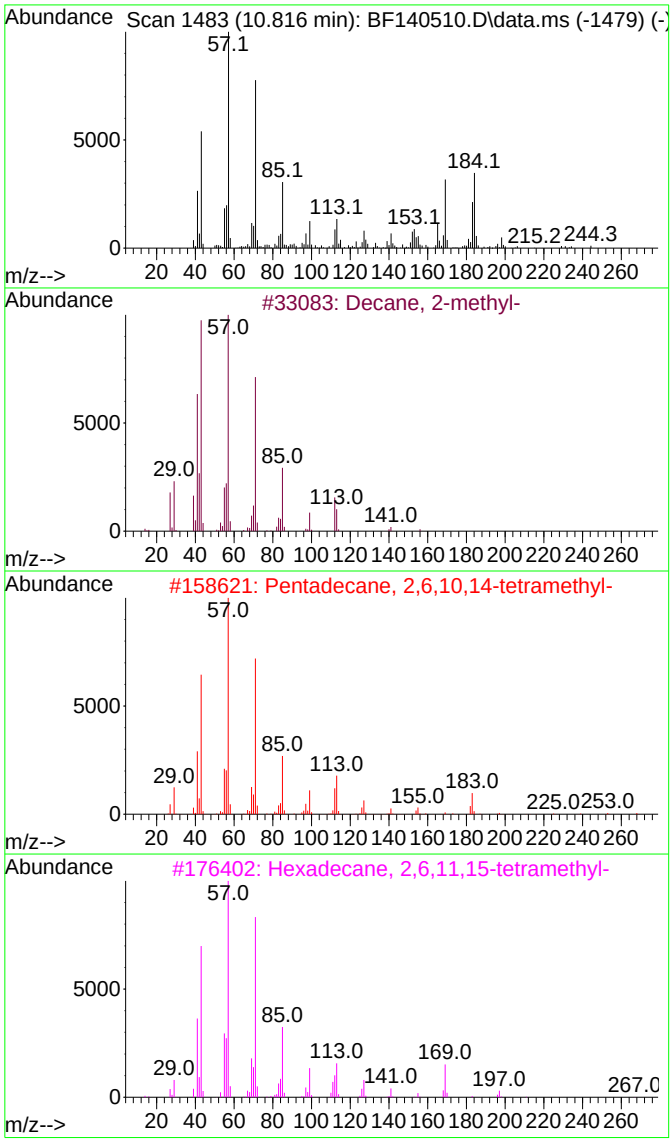
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

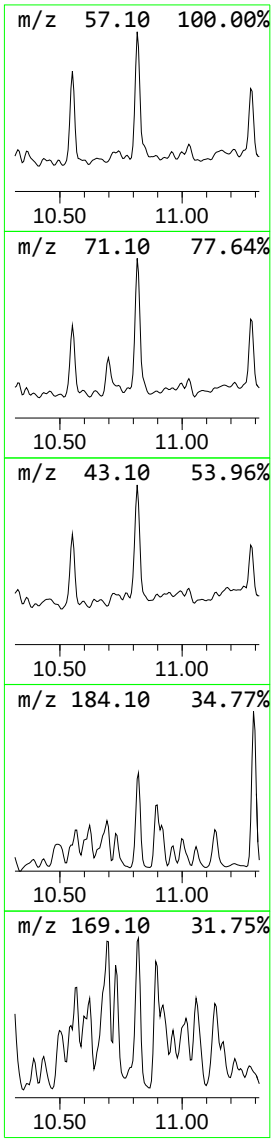
****

Peak Number 6 Decane, 2-methyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.816	5.82 ng	211936	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Decane, 2-methyl-	156	C11H24	006975-98-0	60
2	Pentadecane, 2,6,10,14-tetramethyl-	268	C19H40	001921-70-6	53
3	Hexadecane, 2,6,11,15-tetramethyl-	282	C20H42	000504-44-9	52
4	Hexadecane, 2,6,10-trimethyl-	268	C19H40	055000-52-7	50
5	Hexadecane, 2,6,10,14-tetramethyl-	282	C20H42	000638-36-8	49





Sample Results: **BF140510.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

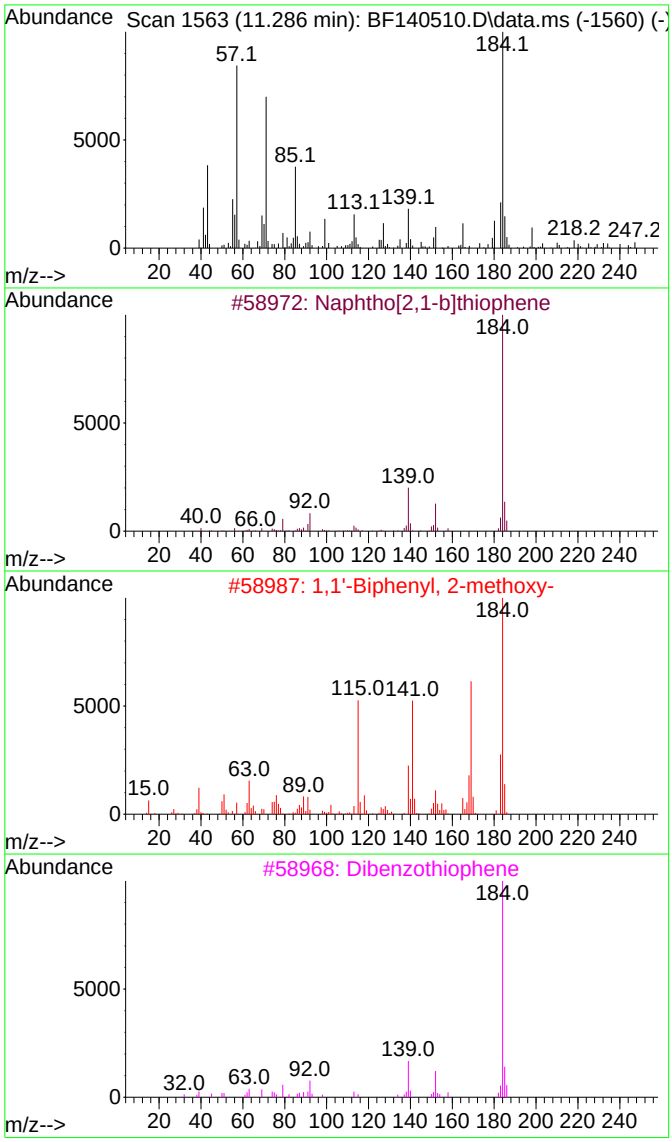
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

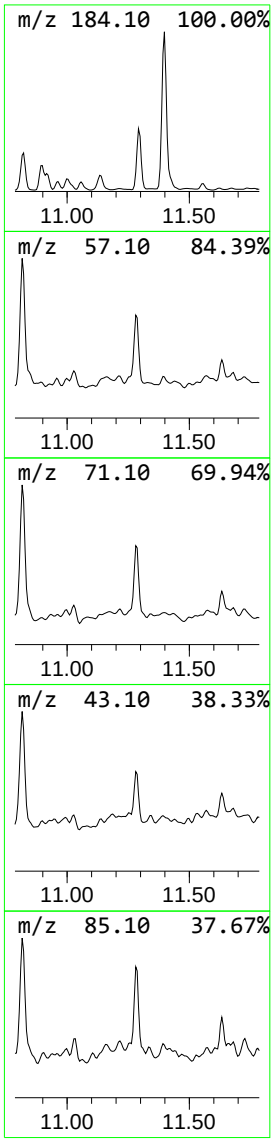
****

Peak Number 7 Naphtho[2,1-b]thiophene Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.286	3.69 ng	134224	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphtho[2,1-b]thiophene	184	C12H8S	000233-02-3	50
2	1,1'-Biphenyl, 2-methoxy-	184	C13H12O	000086-26-0	49
3	Dibenzothiophene	184	C12H8S	000132-65-0	45
4	5-Amino-4-cyano-1-phenylpyrazole	184	C10H8N4	005334-43-0	43
5	Naphtho[1,2-b]thiophene	184	C12H8S	000234-41-3	38





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Sample : P4892-01
Misc :
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ClientSampleId :
WB-310-TOP

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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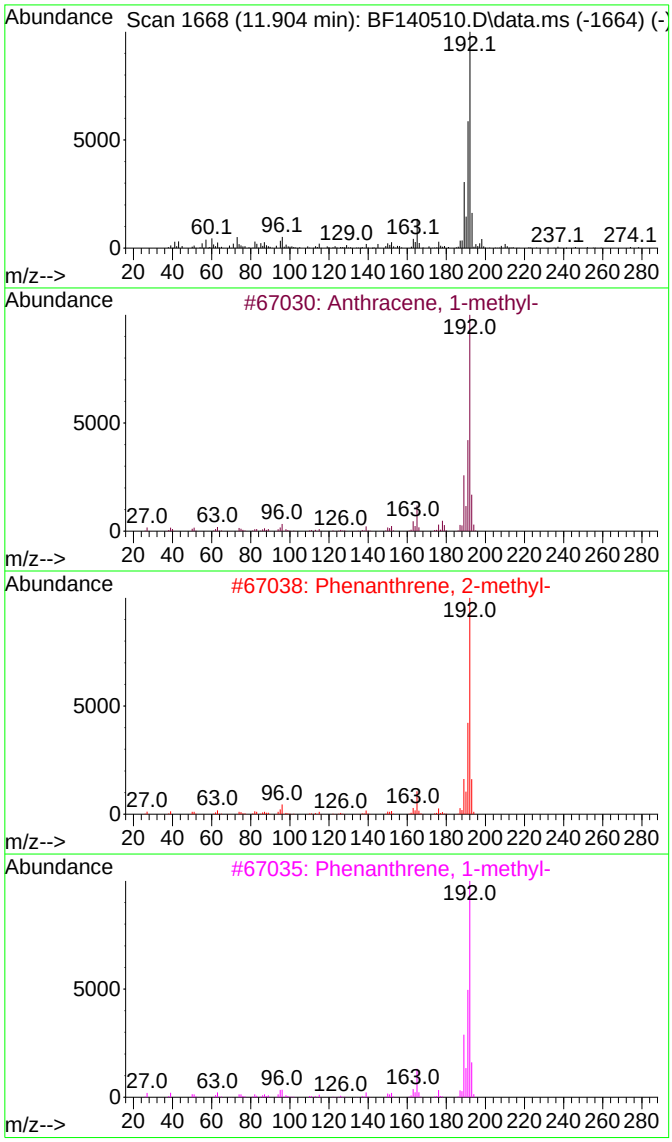
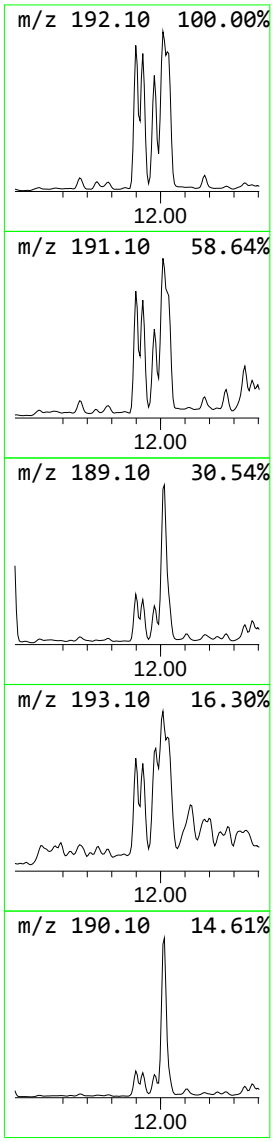
Peak Number 8 Anthracene, 1-methyl- Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.904	5.06 ng	184255	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	93
4	Anthracene, 2-methyl-	192	C15H12	000613-12-7	93
5	1H-Indene, 2-phenyl-	192	C15H12	004505-48-0	90





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Misc :
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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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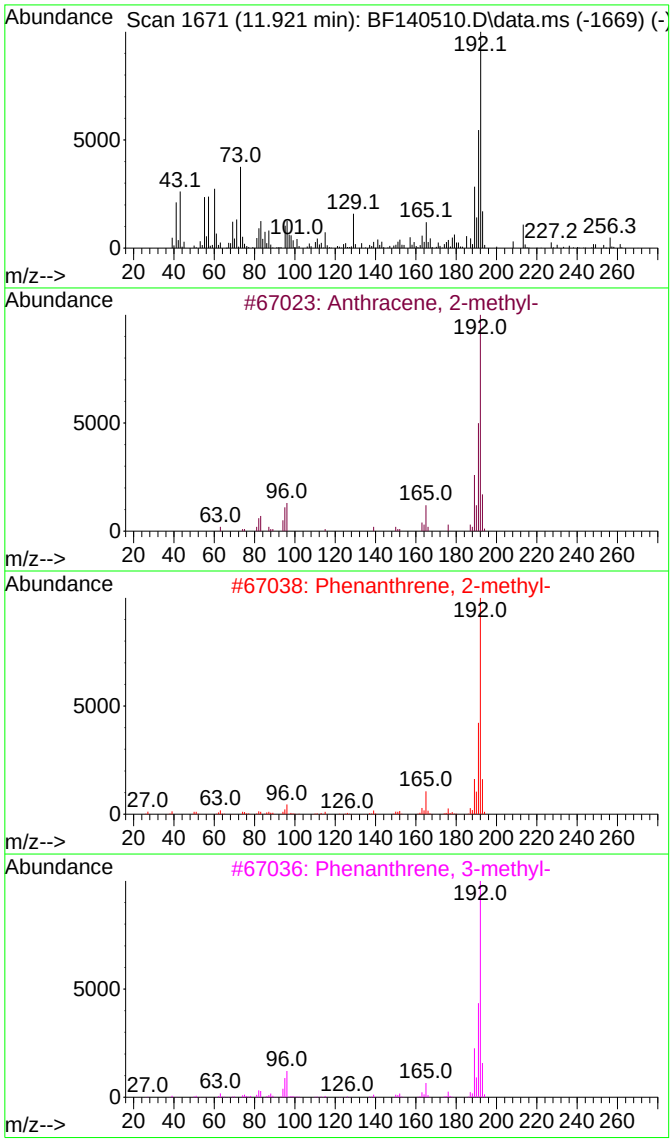
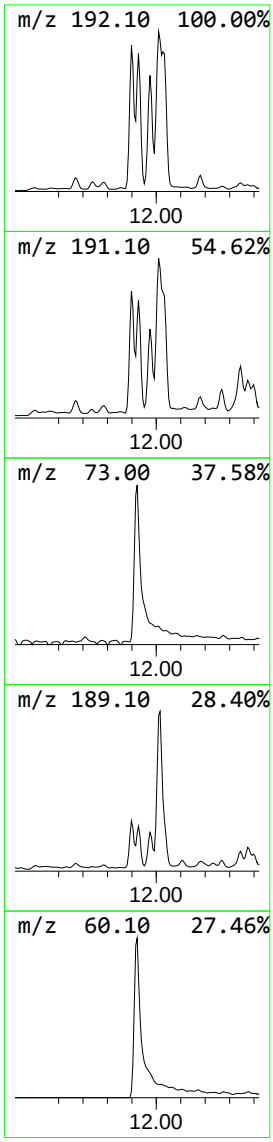
Peak Number 9 Anthracene, 2-methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.922	8.44 ng	307174	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	93
3	Phenanthrene, 3-methyl-	192	C15H12	000832-71-3	92
4	Anthracene, 9-methyl-	192	C15H12	000779-02-2	91
5	Phenanthrene, 9-methyl-	192	C15H12	000883-20-5	90





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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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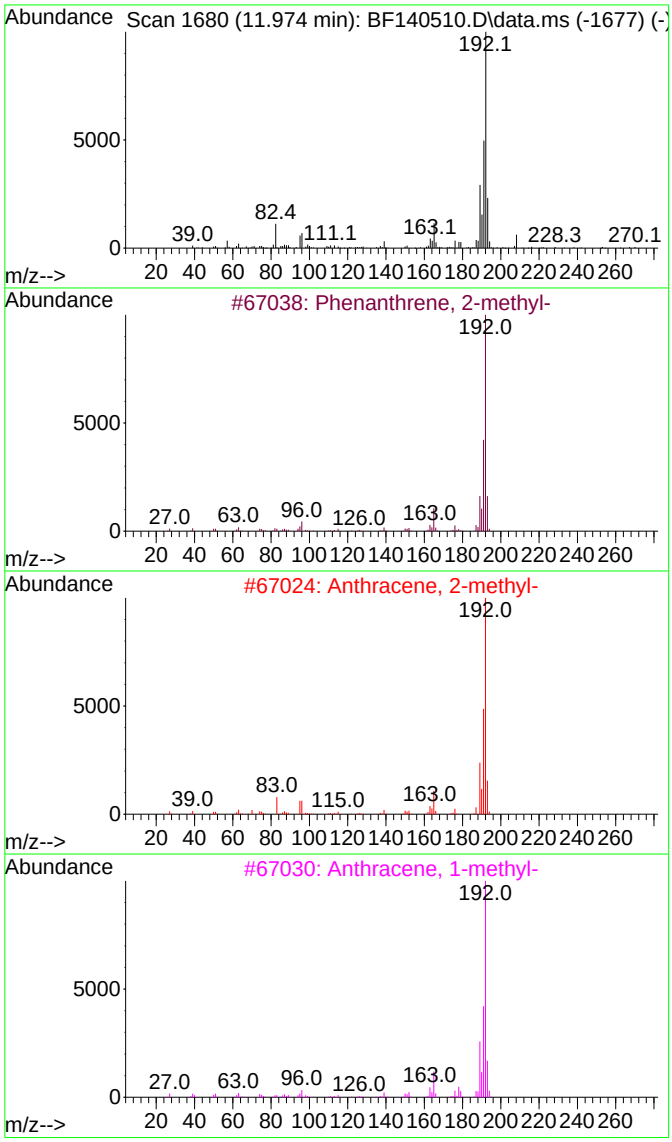
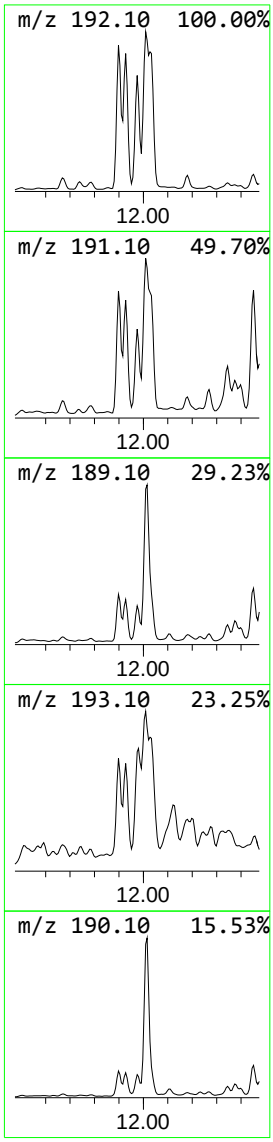
Peak Number 10 Phenanthrene, 2-methyl- Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.974	5.21 ng	189625	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	95
2	Anthracene, 2-methyl-	192	C15H12	000613-12-7	94
3	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
5	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	90





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ALS Vial : 11 Sample Multiplier: 1

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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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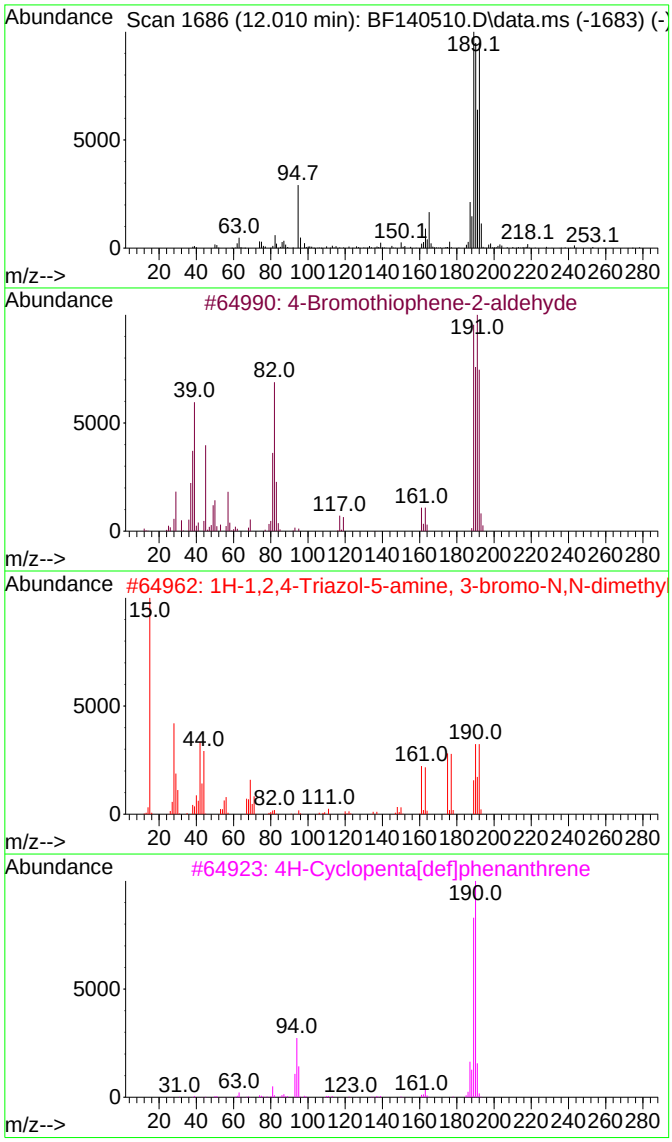
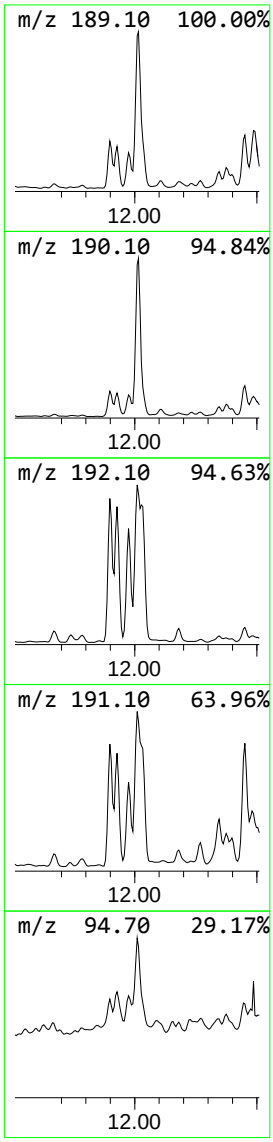
Peak Number 11 4-Bromothiophene-2-aldehyde Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.010	15.15 ng	551709	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	4-Bromothiophene-2-aldehyde	190	C5H3BrOS	018791-75-8	58
2	1H-1,2,4-Triazol-5-amine, 3-brom...	190	C4H7BrN4	1000460-85-7	53
3	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	49
4	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	46
5	5-Amino-3-bromo-2-fluoropyridine	190	C5H4BrFN2	209328-99-4	43





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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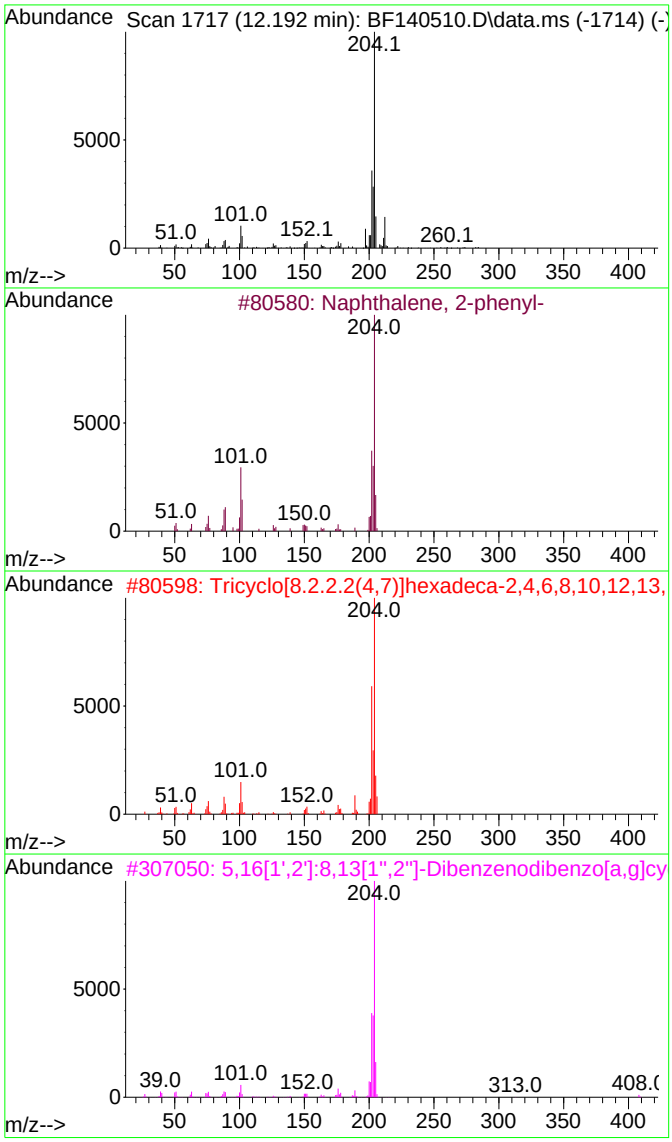
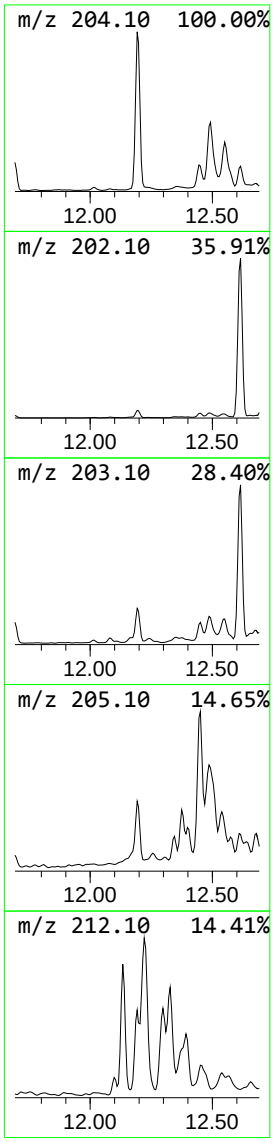
Peak Number 12 Naphthalene, 2-phenyl- Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.192	2.79 ng	101572	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	89
2	Tricyclo[8.2.2.2(4,7)]hexadeca-2...	204	C16H12	006572-60-7	89
3	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	83
4	9,10-Bis(bromomethyl)anthracene	362	C16H12Br2	034373-96-1	52
5	Naphthalene, 1-phenyl-	204	C16H12	000605-02-7	49





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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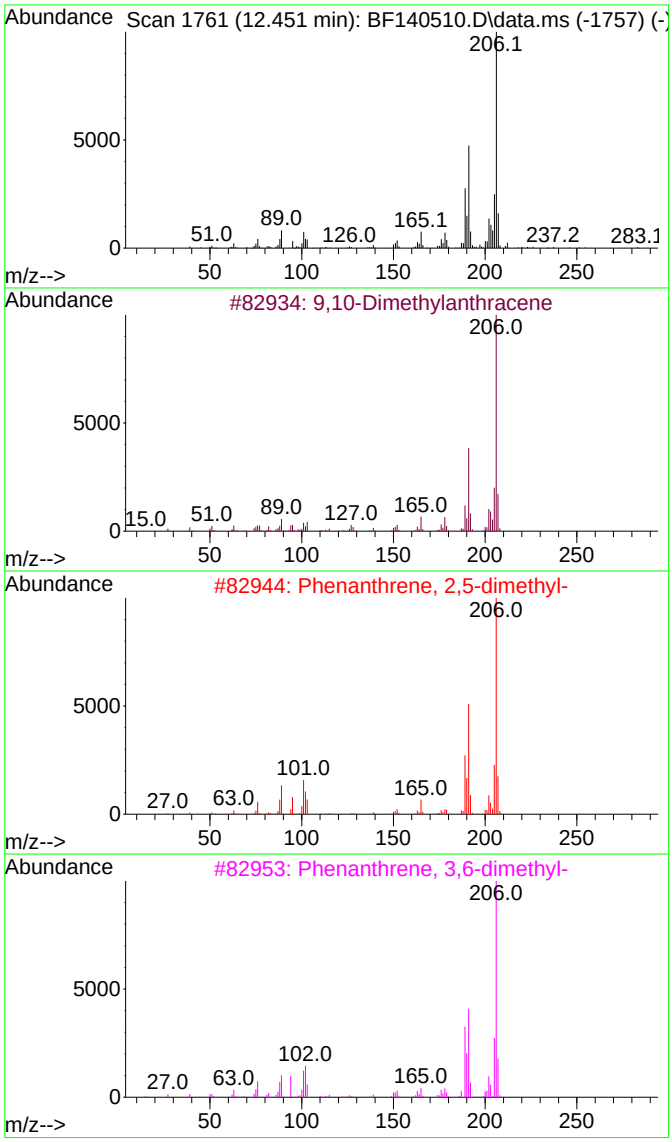
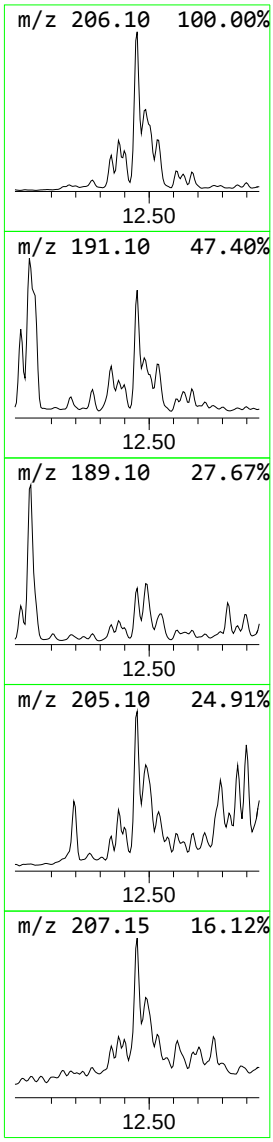
Peak Number 13 9,10-Dimethylanthracene Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.451	7.69 ng	280083	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9,10-Dimethylanthracene	206	C16H14	000781-43-1	96
2	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	95
3	Phenanthrene, 3,6-dimethyl-	206	C16H14	001576-67-6	93
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	90
5	Phenanthrene, 2,7-dimethyl-	206	C16H14	001576-69-8	87





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ClientSampleId :
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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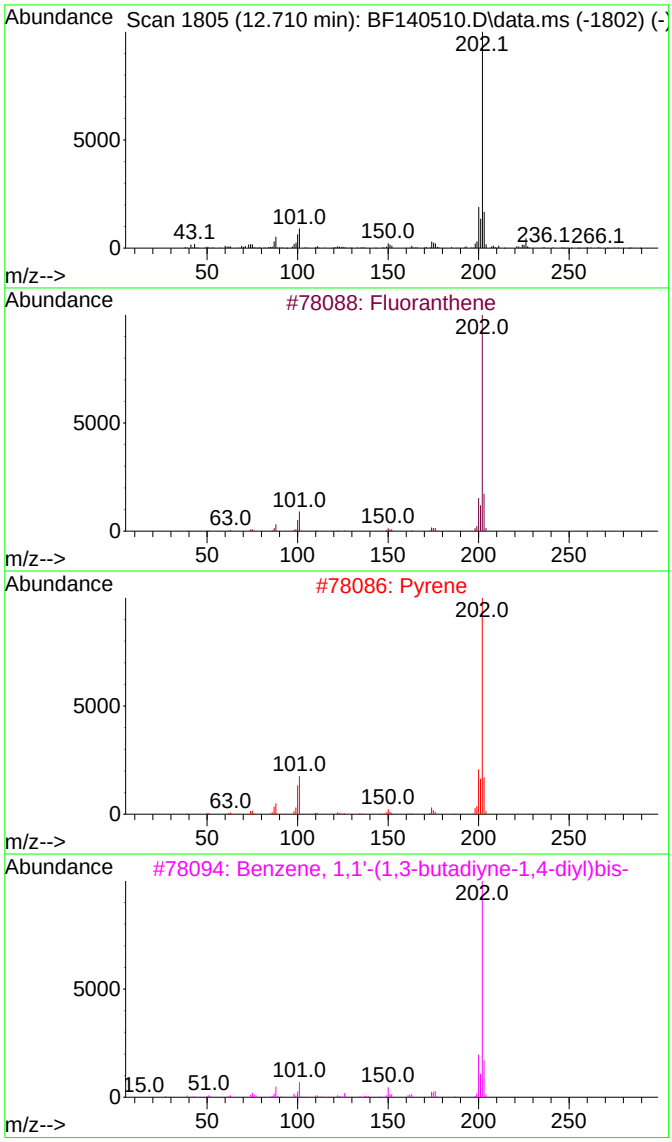
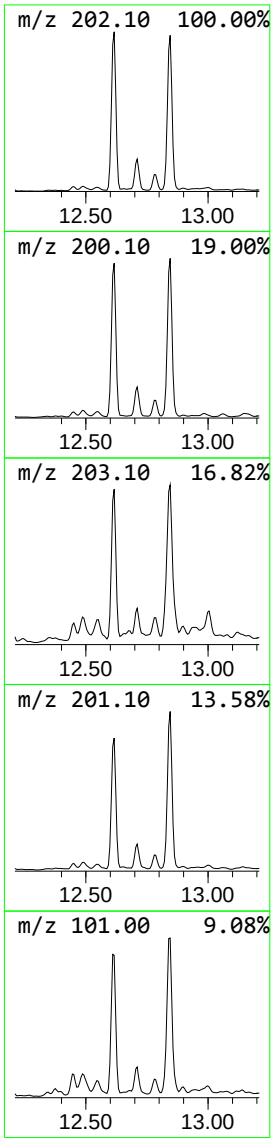
Peak Number 14 Benzene, 1,1'-(1,3-butadiyn... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.710	4.88 ng	177513	Phenanthrene-d10	11.398

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene	202	C16H10	000206-44-0	95
2	Pyrene	202	C16H10	000129-00-0	89
3	Benzene, 1,1'-(1,3-butadiyne-1,4...	202	C16H10	000886-66-8	81
4	l-Leucine, N-methyl-N-(2-methoxy...	443	C25H49NO5	1000328-54-8	53
5	1,4-Pentadiyn-3-one, 1,5-diphenyl-	230	C17H10O	015814-30-9	50





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

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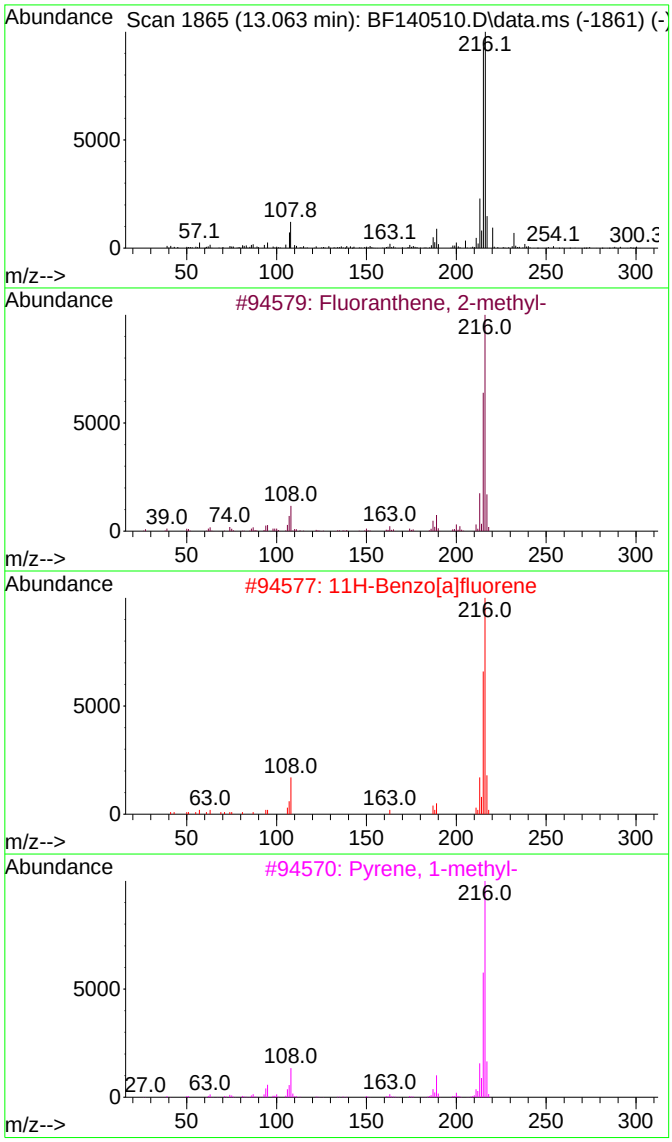
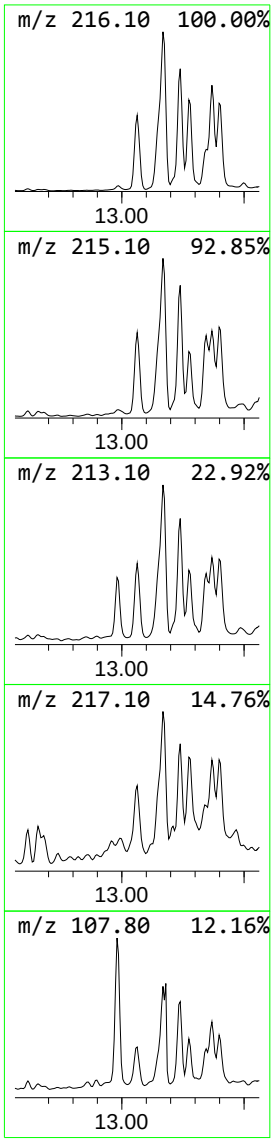
Peak Number 15 Fluoranthene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.063	3.22 ng	229936	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	89
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	86
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	83
4	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	81
5	Pyridin-3-ol, 2-(4-nitrophenyl)-	216	C11H8N2O3	030820-89-4	64





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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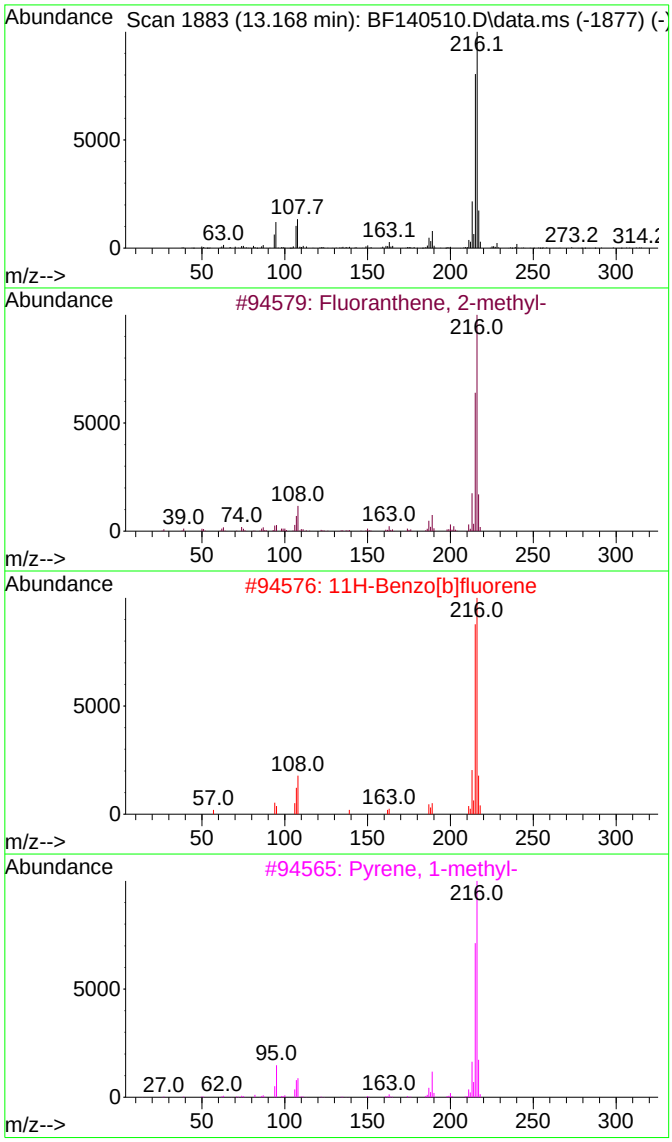
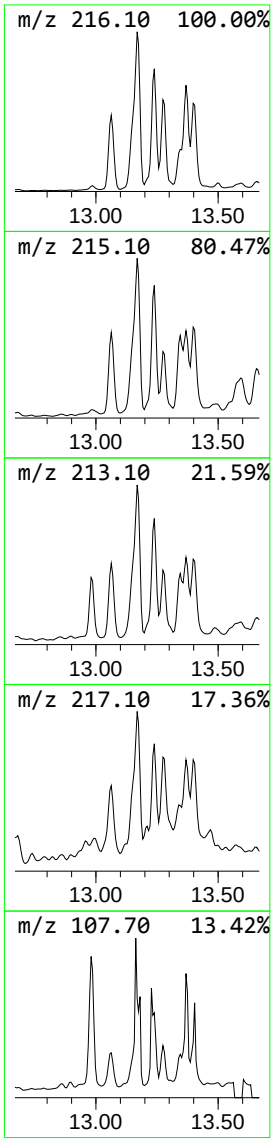
Peak Number 16 11H-Benzo[b]fluorene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.169	6.39 ng	457078	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	95
2	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	95
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	94
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	91
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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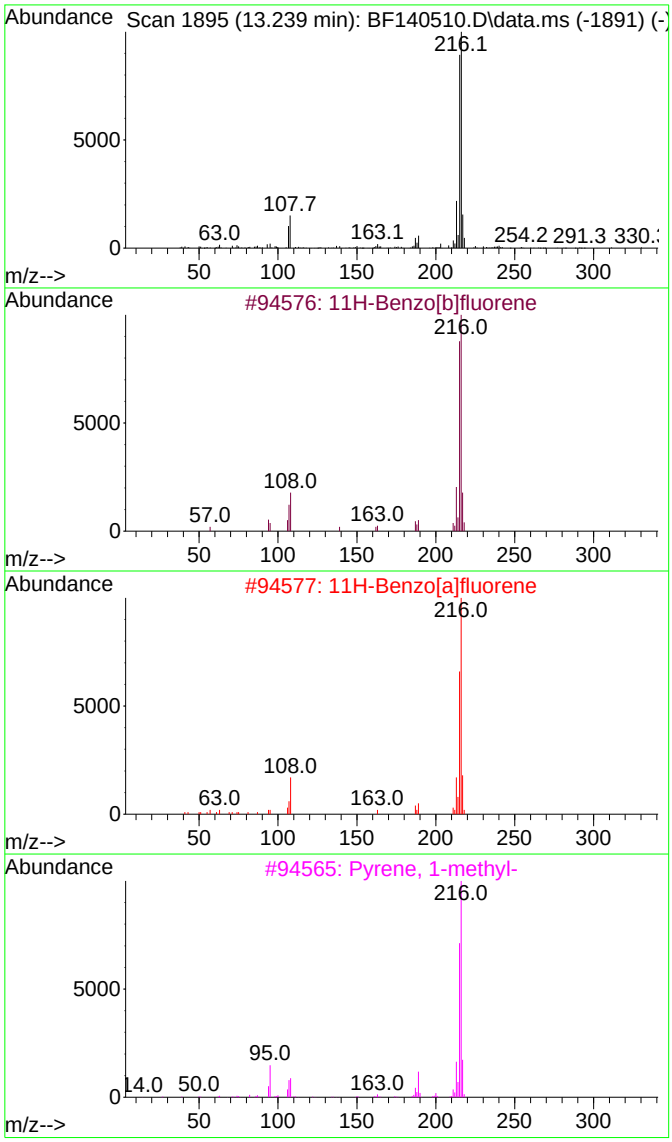
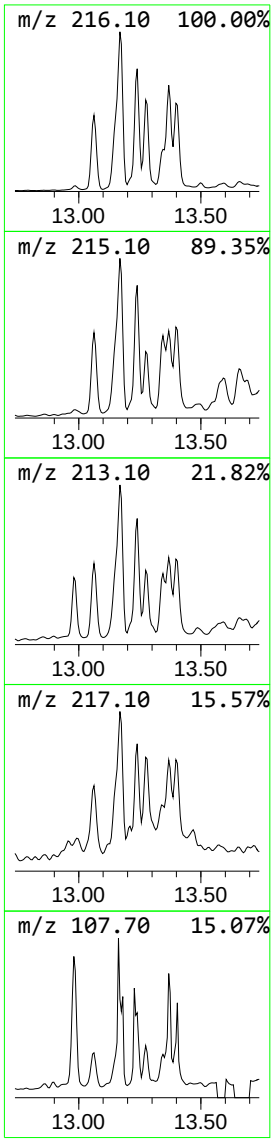
Peak Number 17 11H-Benzo[a]fluorene Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.239	3.43 ng	245419	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	93
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	91
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	90
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	68





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

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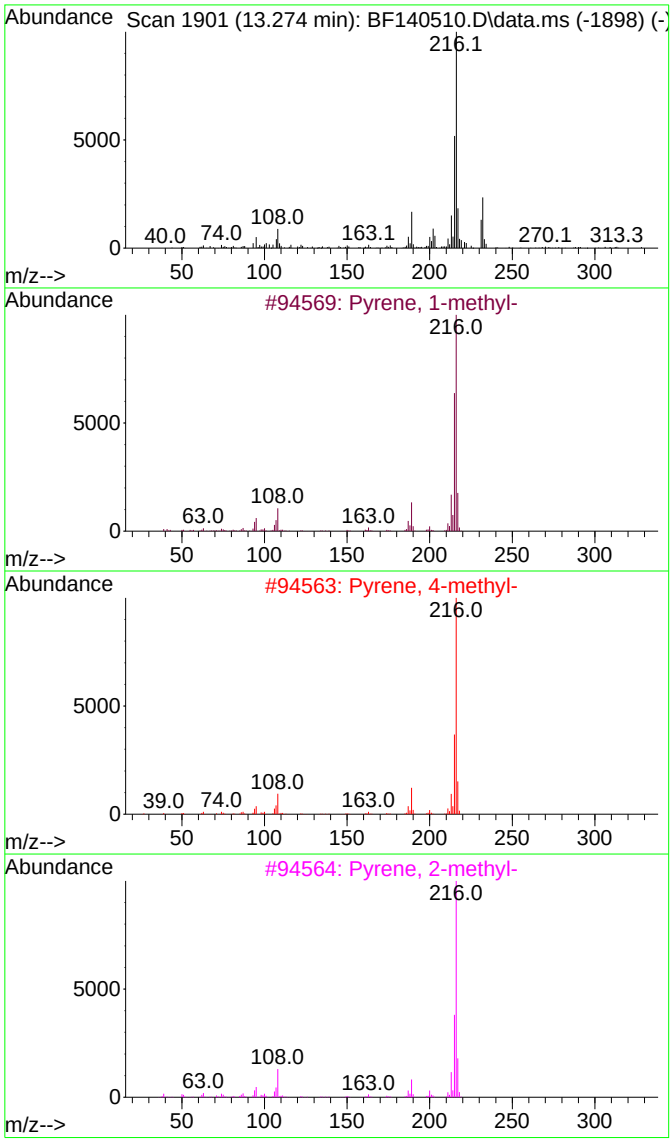
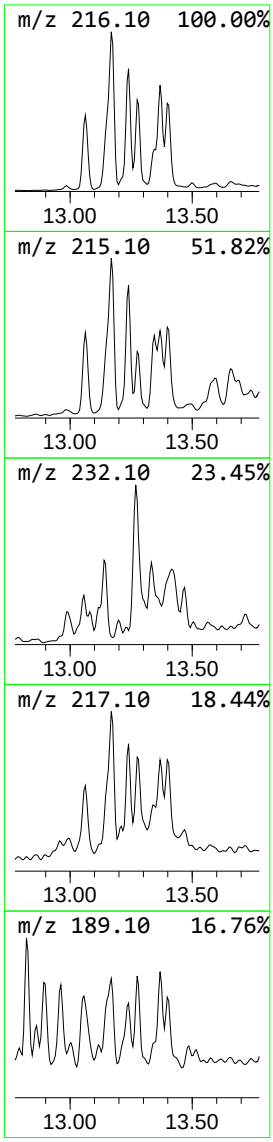
Peak Number 18 Pyrene, 1-methyl- Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.274	3.31 ng	236592	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	95
2	Pyrene, 4-methyl-	216	C17H12	003353-12-6	93
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	93
4	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	76
5	4,6-Dimethoxy-1-naphthaldehyde	216	C13H12O3	065565-33-5	58





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Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

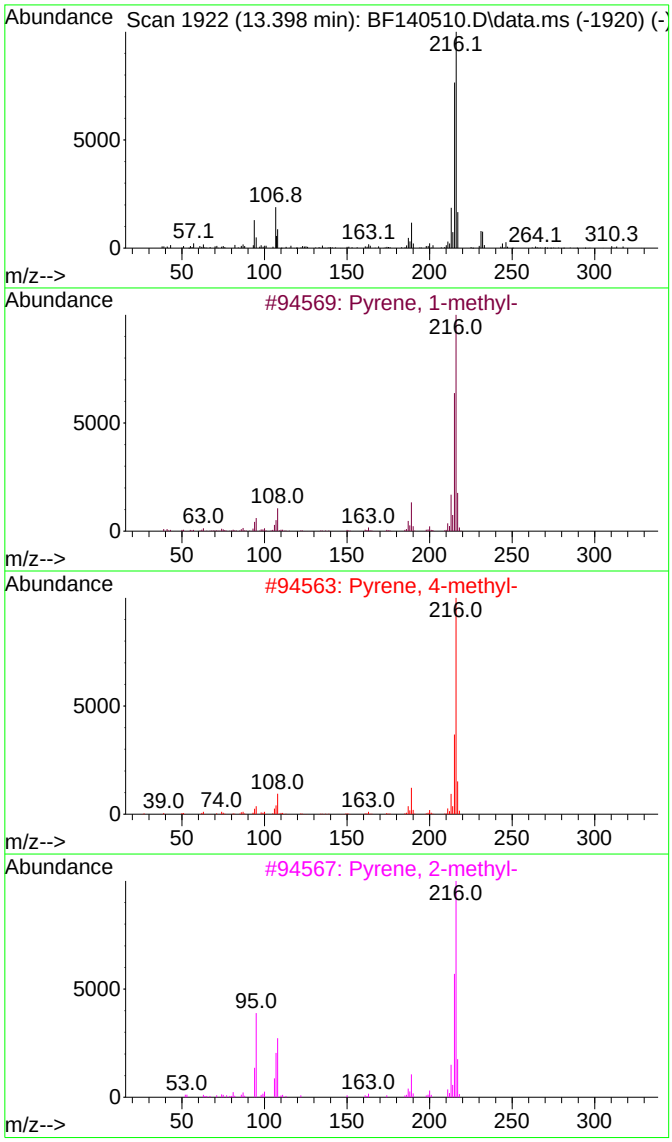
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

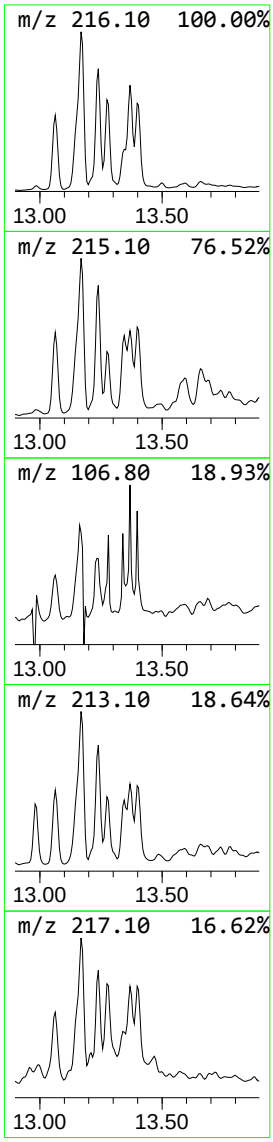
****

Peak Number 19 Pyrene, 4-methyl- Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.398	2.86 ng	204877	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	96
2	Pyrene, 4-methyl-	216	C17H12	003353-12-6	95
3	Pyrene, 2-methyl-	216	C17H12	003442-78-2	94
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	91
5	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

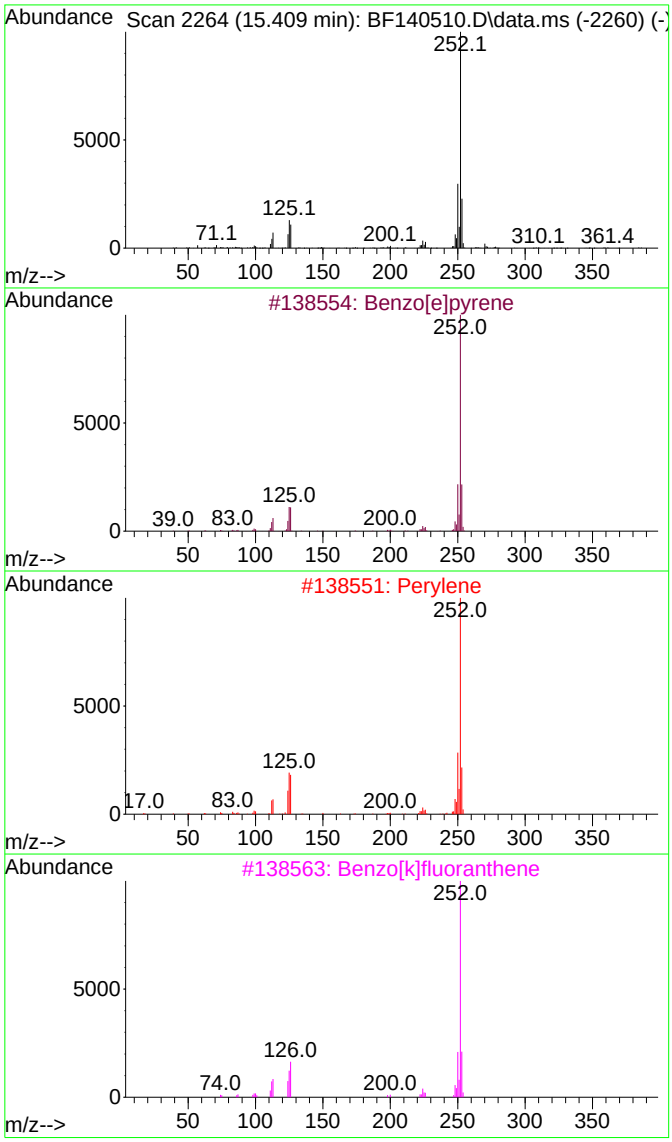
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

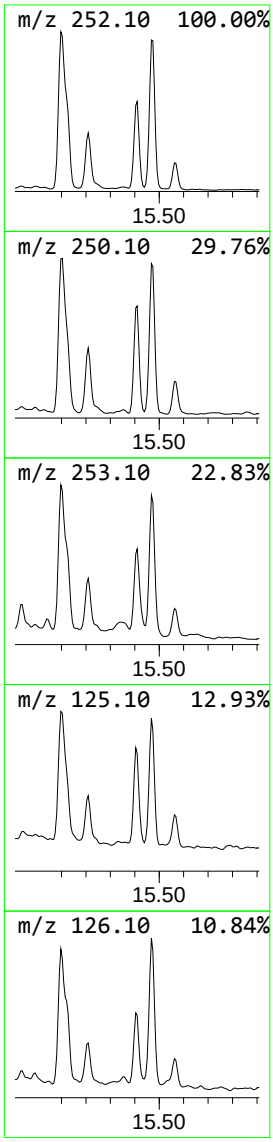
****

Peak Number 20 Benzo[e]pyrene Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.410	7.27 ng	259882	Perylene-d12	15.533

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	99
2	Perylene	252	C20H12	000198-55-0	96
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	96
4	Benzo[b]fluoranthene	252	C20H12	000205-99-2	93
5	Benzo[a]pyrene	252	C20H12	000050-32-8	93





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140510.D
Acq On : 20 Nov 2024 20:02
Operator : RC/JU
Sample : P4892-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-TOP

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.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	37.5	ng	1211510	1	6.875	646557	20.0
unknown9.616	9.616	4.8	ng	180741	3	9.904	749131	20.0
Naphthalene, 2,...	10.316	3.2	ng	120901	3	9.904	749131	20.0
Hexadecane, 2,6...	10.551	2.8	ng	103081	3	9.904	749131	20.0
Benzophenone	10.616	5.8	ng	216944	3	9.904	749131	20.0
Decane, 2-methyl-	10.816	5.8	ng	211936	4	11.398	728136	20.0
Naphtho[2,1-b]t...	11.286	3.7	ng	134224	4	11.398	728136	20.0
Anthracene, 1-m...	11.904	5.1	ng	184255	4	11.398	728136	20.0
Anthracene, 2-m...	11.922	8.4	ng	307174	4	11.398	728136	20.0
Phenanthrene, 2...	11.974	5.2	ng	189625	4	11.398	728136	20.0
4-Bromothiophen...	12.010	15.2	ng	551709	4	11.398	728136	20.0
Naphthalene, 2-...	12.192	2.8	ng	101572	4	11.398	728136	20.0
9,10-Dimethylan...	12.451	7.7	ng	280083	4	11.398	728136	20.0
Benzene, 1,1'-(...	12.710	4.9	ng	177513	4	11.398	728136	20.0
Fluoranthene, 2...	13.063	3.2	ng	229936	5	14.045	1430340	20.0
11H-Benzo[b]flu...	13.169	6.4	ng	457078	5	14.045	1430340	20.0
11H-Benzo[a]flu...	13.239	3.4	ng	245419	5	14.045	1430340	20.0
Pyrene, 1-methyl-	13.274	3.3	ng	236592	5	14.045	1430340	20.0
Pyrene, 4-methyl-	13.398	2.9	ng	204877	5	14.045	1430340	20.0
Benzo[e]pyrene	15.410	7.3	ng	259882	6	15.533	714526	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140495.D
Acq On : 20 Nov 2024 12:42
Operator : RC/JU
Sample : P4892-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Quant Time: Nov 20 13:09:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

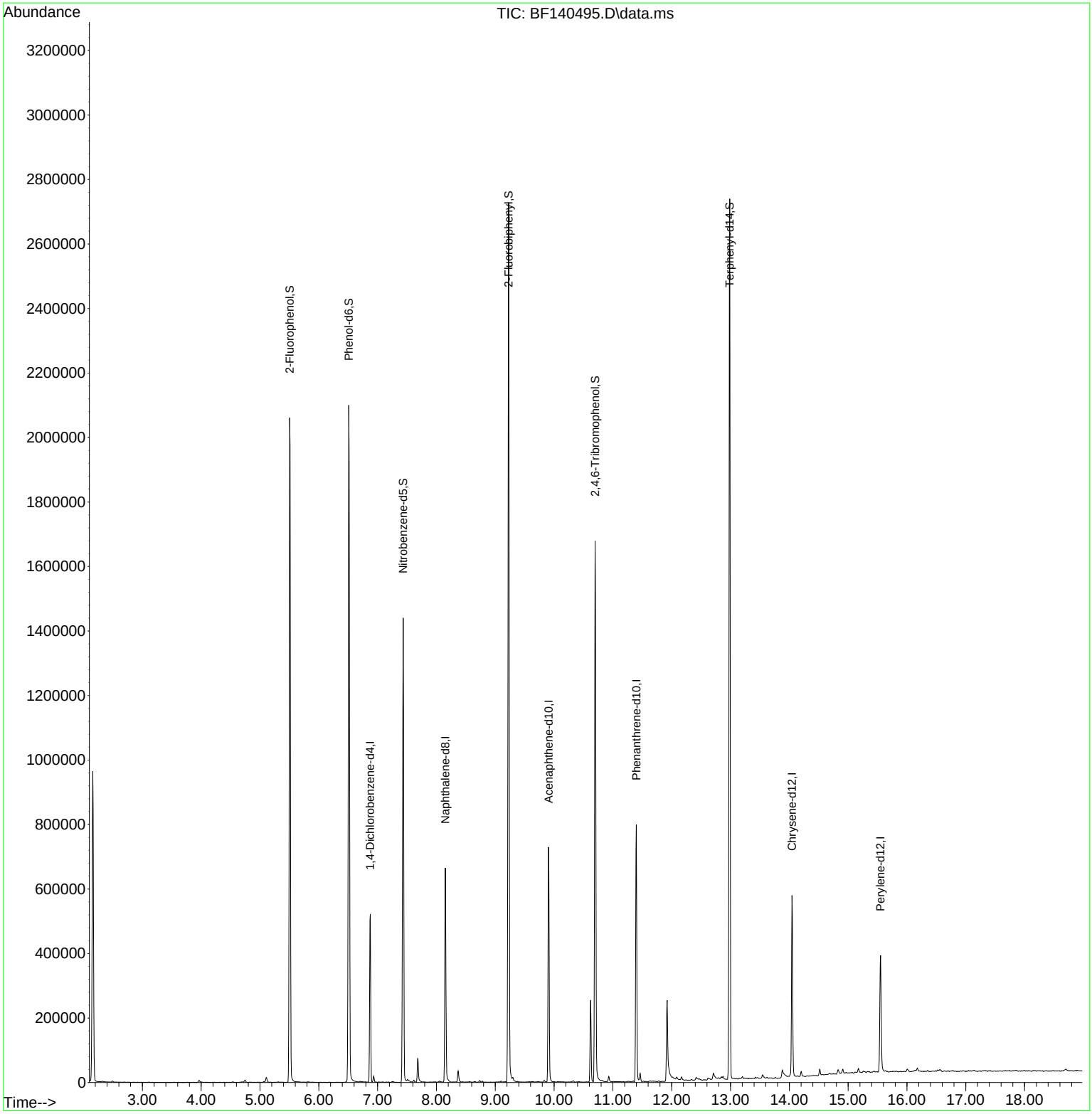
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	111857	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	425828	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	234373	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	439035	20.000	ng	0.00
76) Chrysene-d12	14.045	240	271644	20.000	ng	0.00
86) Perylene-d12	15.551	264	222745	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	795934	121.491	ng	0.01
7) Phenol-d6	6.510	99	1040588	117.236	ng	0.00
23) Nitrobenzene-d5	7.434	82	668507	81.796	ng	0.00
42) 2,4,6-Tribromophenol	10.698	330	294494	126.357	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	1244669	85.371	ng	0.00
79) Terphenyl-d14	12.986	244	1374393	87.823	ng	0.00
Target Compounds						Qvalue

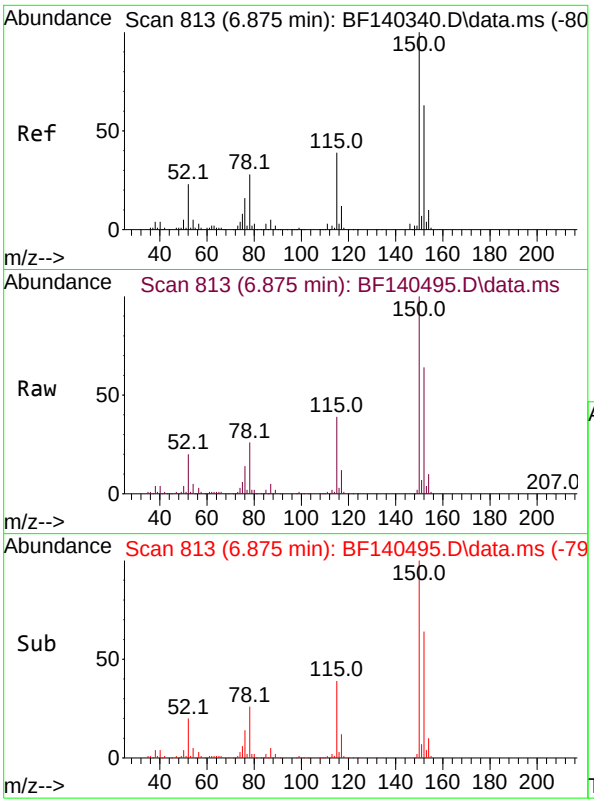
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140495.D
Acq On : 20 Nov 2024 12:42
Operator : RC/JU
Sample : P4892-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Quant Time: Nov 20 13:09:02 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



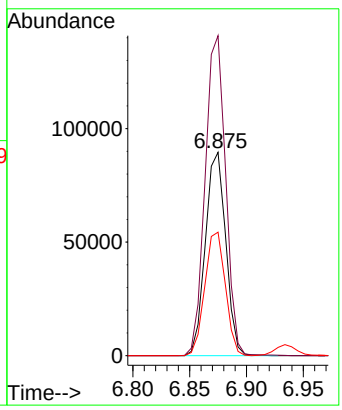


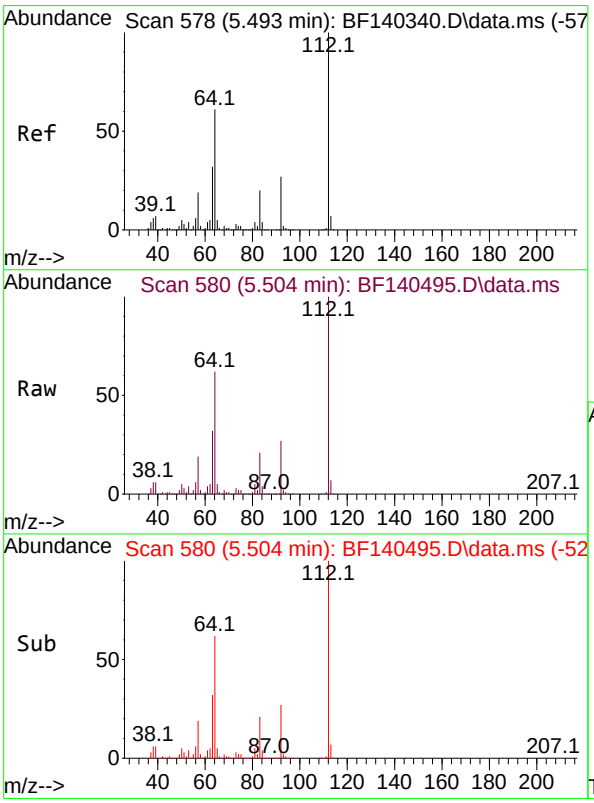
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Tgt Ion:152 Resp: 111857

Ion	Ratio	Lower	Upper
152	100		
150	157.4	127.4	191.0
115	60.7	47.4	71.2

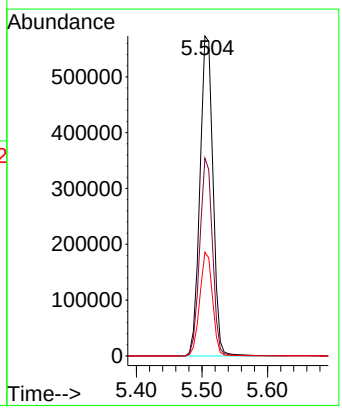


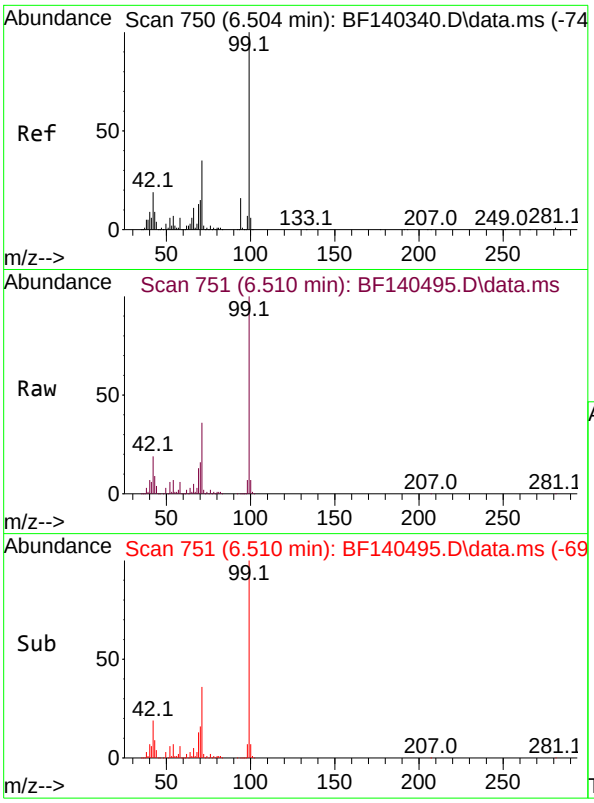


#5
2-Fluorophenol
Concen: 121.491 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.012 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Tgt Ion:112 Resp: 795934

Ion	Ratio	Lower	Upper
112	100		
64	61.8	49.2	73.8
63	32.4	25.6	38.4



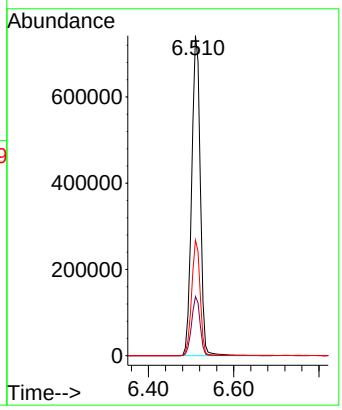


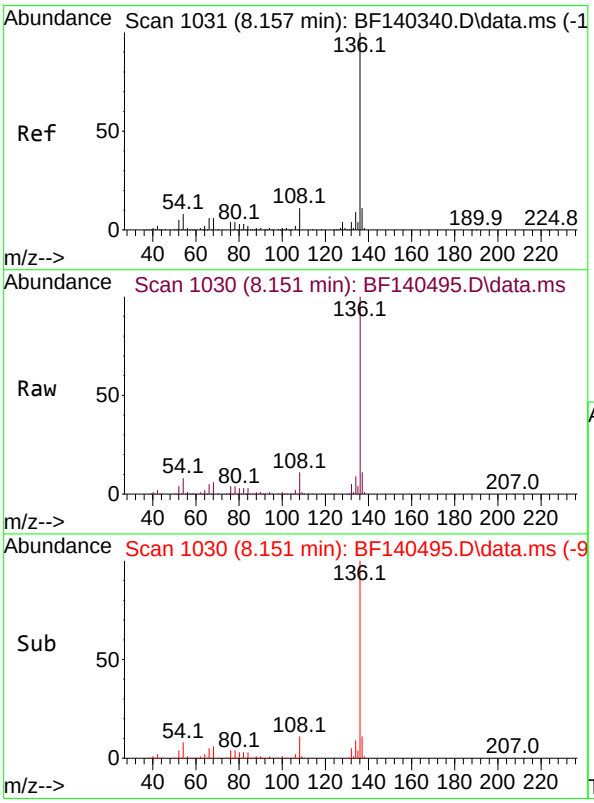
#7
Phenol-d6
Concen: 117.236 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Tgt Ion: 99 Resp: 1040588

Ion	Ratio	Lower	Upper
99	100		
42	18.5	15.1	22.7
71	36.1	27.9	41.9

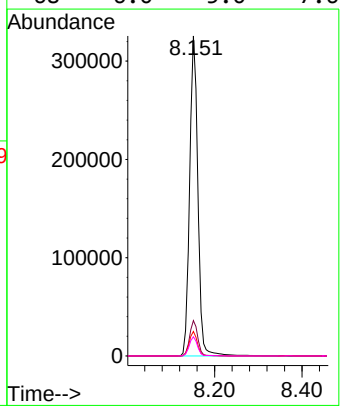


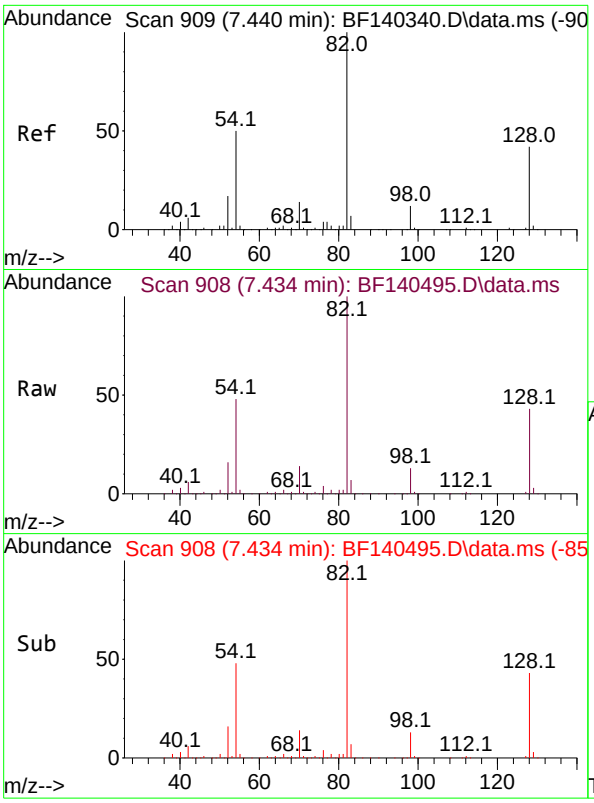


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Tgt Ion:136 Resp: 425828

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.7	13.1
54	7.6	6.5	9.7
68	6.0	5.0	7.6



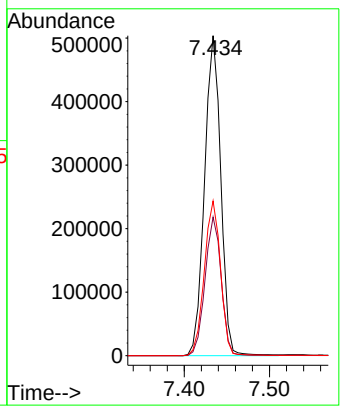


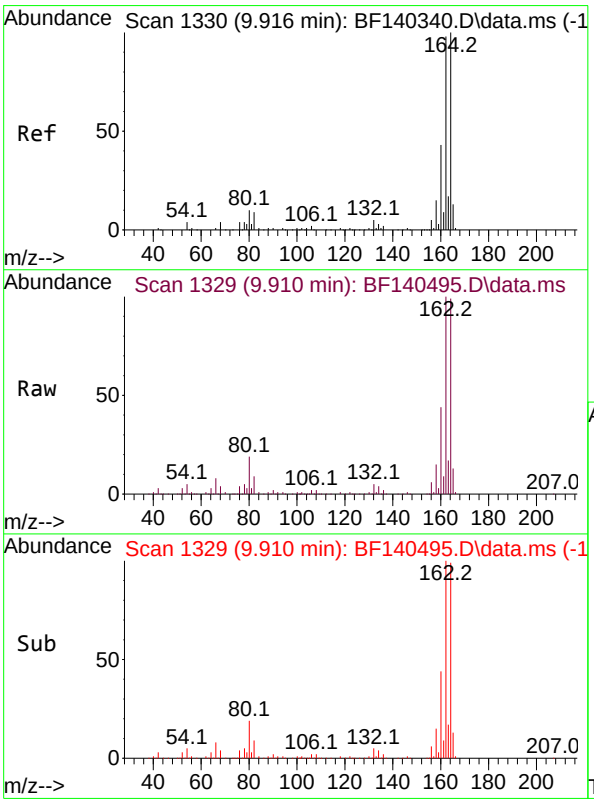
#23
Nitrobenzene-d5
Concen: 81.796 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Tgt Ion: 82 Resp: 668507

Ion	Ratio	Lower	Upper
82	100		
128	43.3	33.3	49.9
54	48.4	39.8	59.8

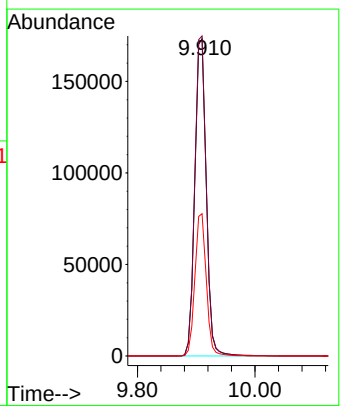


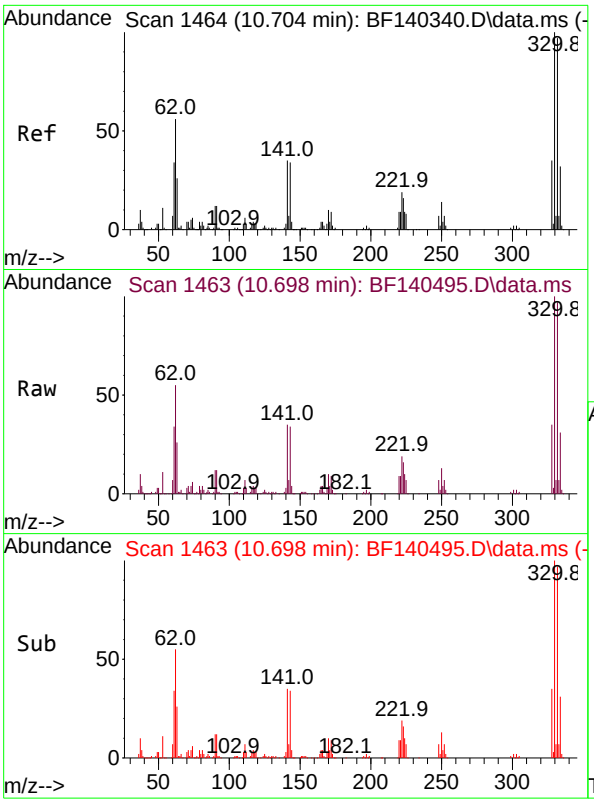


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.910 min Scan# 1329
Delta R.T. -0.006 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Tgt Ion:164 Resp: 234373

Ion	Ratio	Lower	Upper
164	100		
162	100.9	79.8	119.8
160	44.9	35.4	53.0



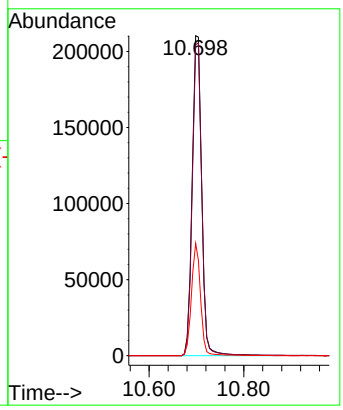


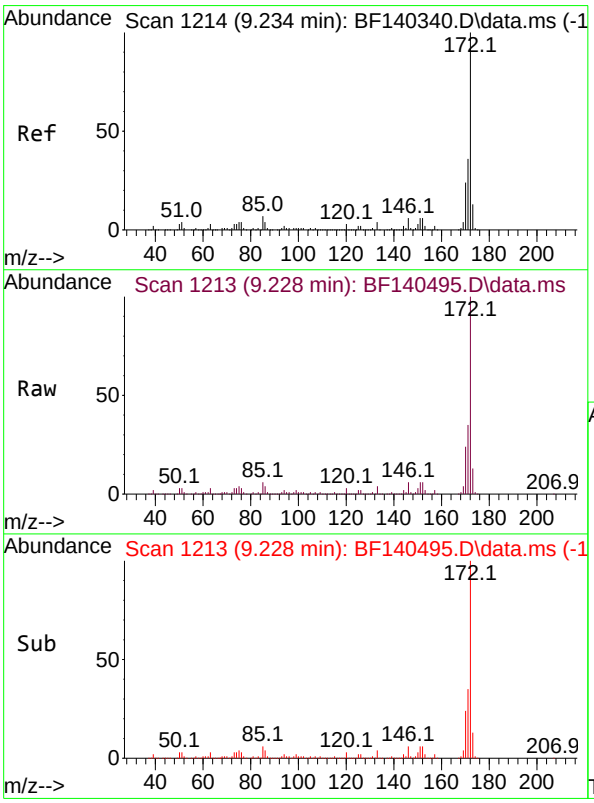
#42
2,4,6-Tribromophenol
Concen: 126.357 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Tgt Ion:330 Resp: 294494

Ion	Ratio	Lower	Upper
330	100		
332	97.1	75.9	113.9
141	33.4	26.9	40.3

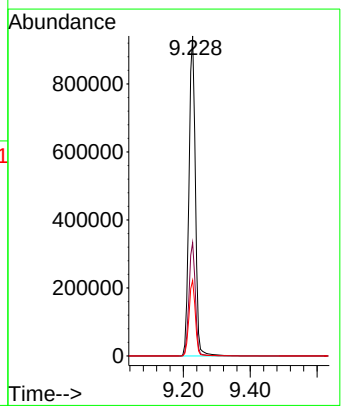


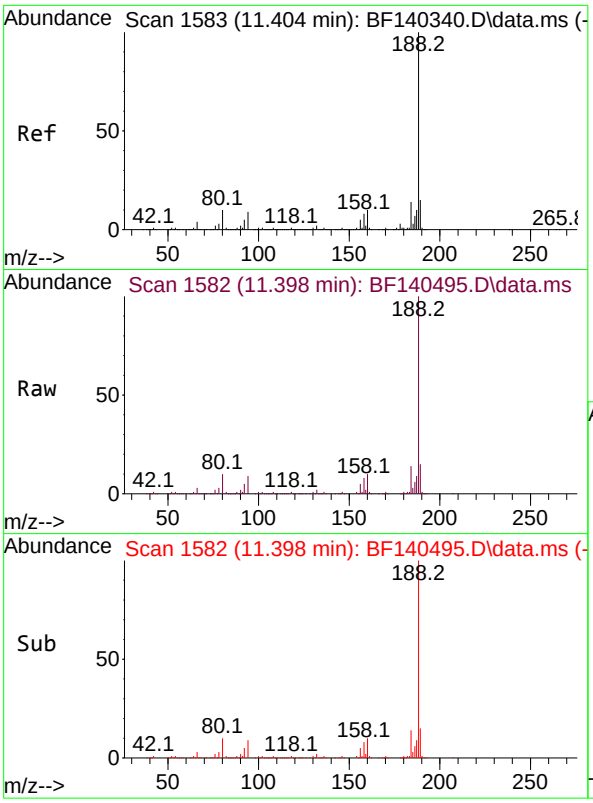


#45
2-Fluorobiphenyl
Concen: 85.371 ng
RT: 9.228 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Tgt Ion:172 Resp: 1244669

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.5	42.7
170	23.6	19.1	28.7



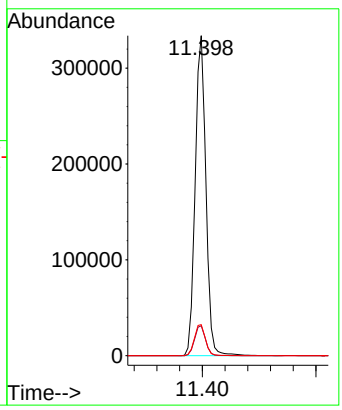


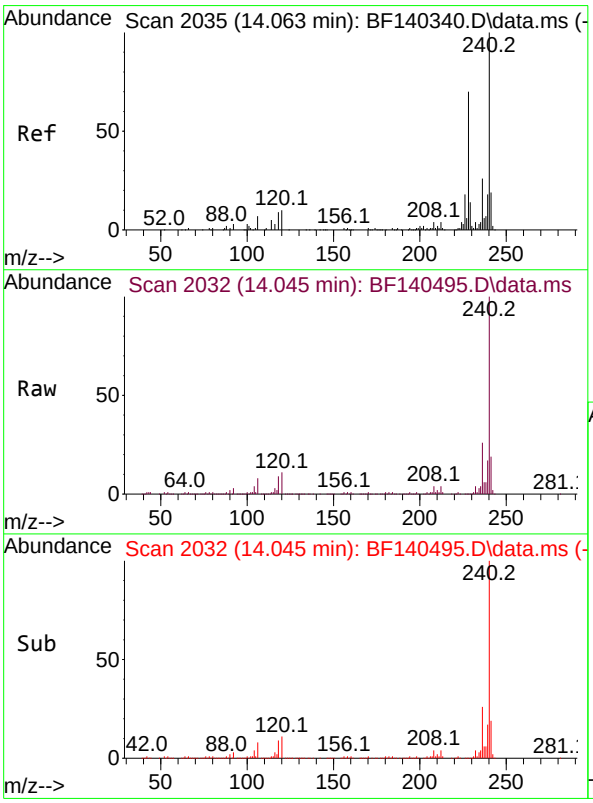
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Tgt Ion:188 Resp: 439035

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.6	11.4
80	9.7	8.0	12.0

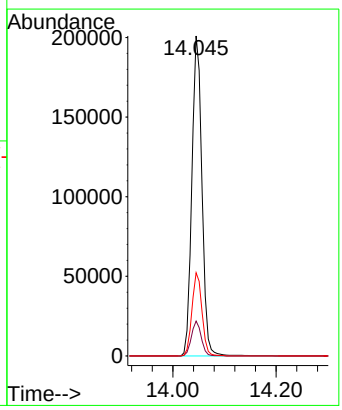


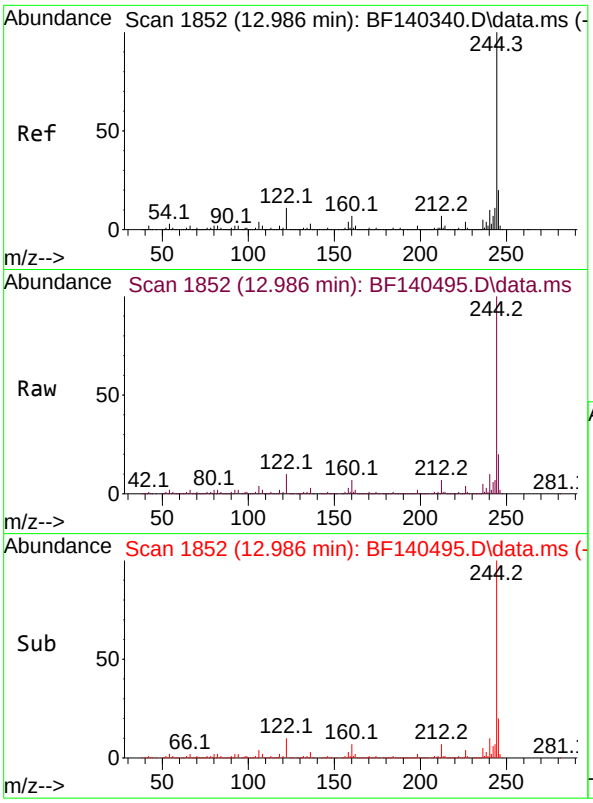


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Tgt Ion:240 Resp: 271644

Ion	Ratio	Lower	Upper
240	100		
120	10.9	8.8	13.2
236	26.0	20.9	31.3



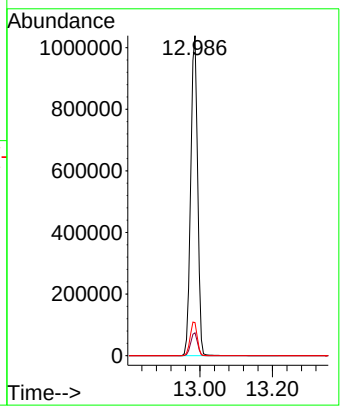


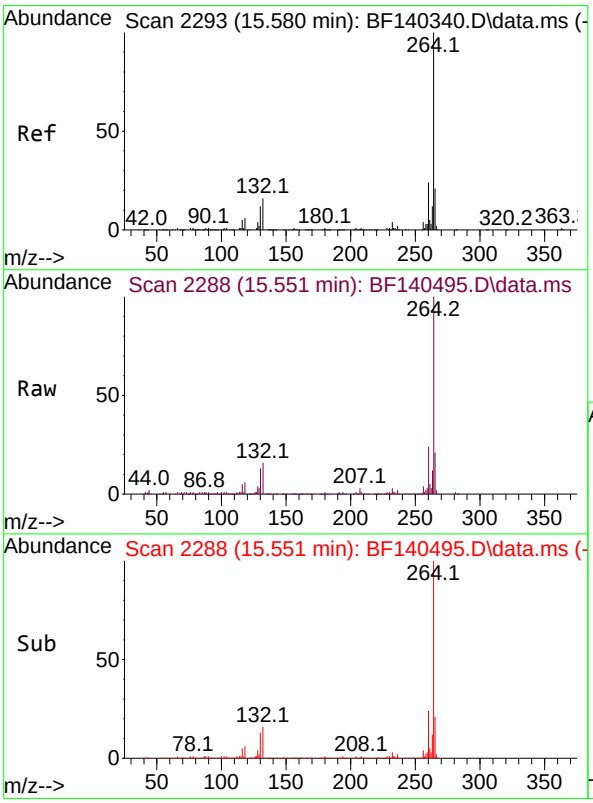
#79
Terphenyl-d14
Concen: 87.823 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Tgt Ion:244 Resp: 1374393

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.8	8.8
122	10.3	8.8	13.2

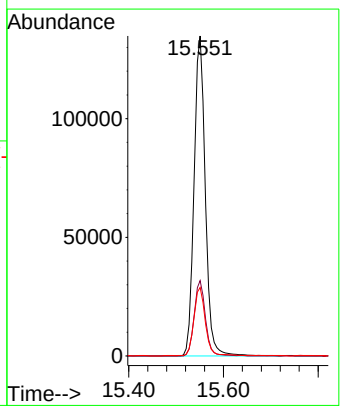




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.551 min Scan# 2288
Delta R.T. -0.006 min
Lab File: BF140495.D
Acq: 20 Nov 2024 12:42

Tgt Ion:264 Resp: 222745

Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	21.4	17.1	25.7



Sample Results: **BF140495.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140495.D
Acq On : 20 Nov 2024 12:42
Operator : RC/JU
Sample : P4892-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

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-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140495.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.158	3	11	25	rVB	961839	1514958	41.71%	6.144%
2	5.504	574	580	602	rBV	2060043	2824414	77.77%	11.455%
3	6.510	742	751	778	rBV	2098646	2973216	81.86%	12.058%
4	6.875	807	813	818	rBV	521108	657131	18.09%	2.665%
5	7.434	902	908	913	rBV	1439295	1894397	52.16%	7.683%
6	7.681	945	950	965	rBV	72806	109333	3.01%	0.443%
7	8.151	1025	1030	1047	rVB	664045	866527	23.86%	3.514%
8	8.369	1063	1067	1076	rVB	33606	49083	1.35%	0.199%
9	9.228	1207	1213	1223	rBV	2727335	3582705	98.65%	14.530%
10	9.910	1323	1329	1342	rBV	727184	987254	27.18%	4.004%
11	10.622	1445	1450	1458	rBV	253937	316813	8.72%	1.285%
12	10.698	1458	1463	1479	rBV	1676982	2267667	62.44%	9.197%
13	11.398	1576	1582	1589	rBV	796495	1044536	28.76%	4.236%
14	11.922	1665	1671	1685	rBV	251454	452219	12.45%	1.834%
15	12.710	1800	1805	1815	rBV6	18827	45413	1.25%	0.184%
16	12.986	1846	1852	1857	rBV	2729981	3631883	100.00%	14.729%
17	13.880	1999	2004	2019	rBV3	23856	73627	2.03%	0.299%
18	14.045	2024	2032	2044	rVV	561882	769095	21.18%	3.119%
19	15.551	2282	2288	2299	rBV	360431	597367	16.45%	2.423%

Sum of corrected areas: 24657638

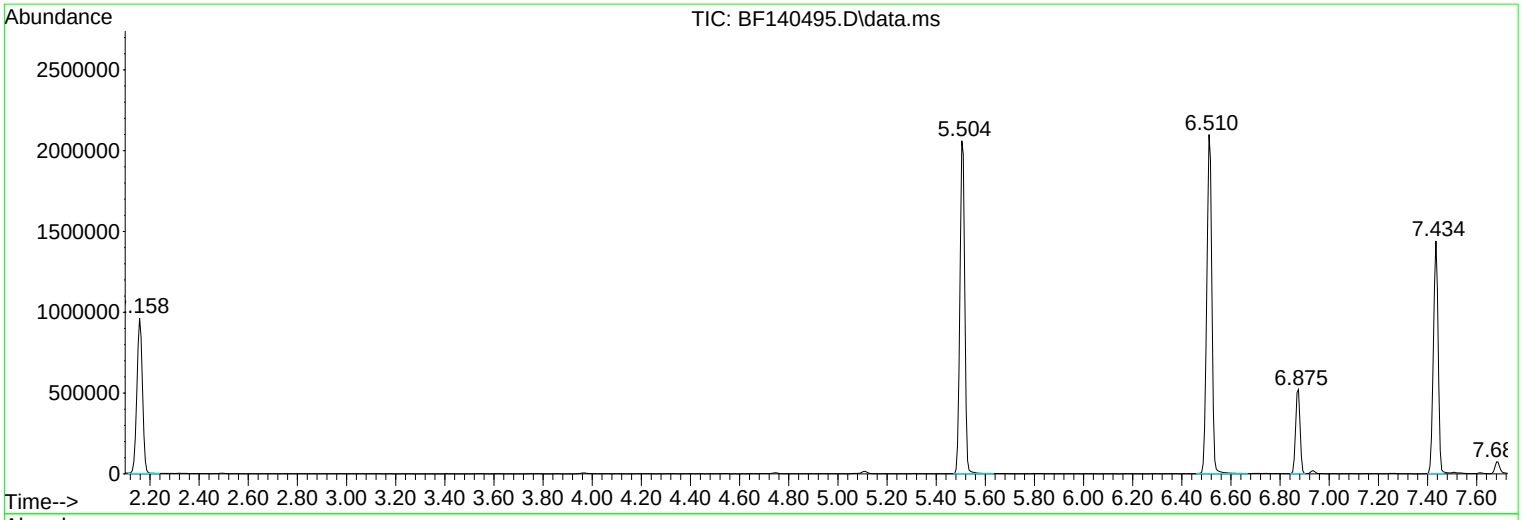
Sample Results: **BF140495.D**

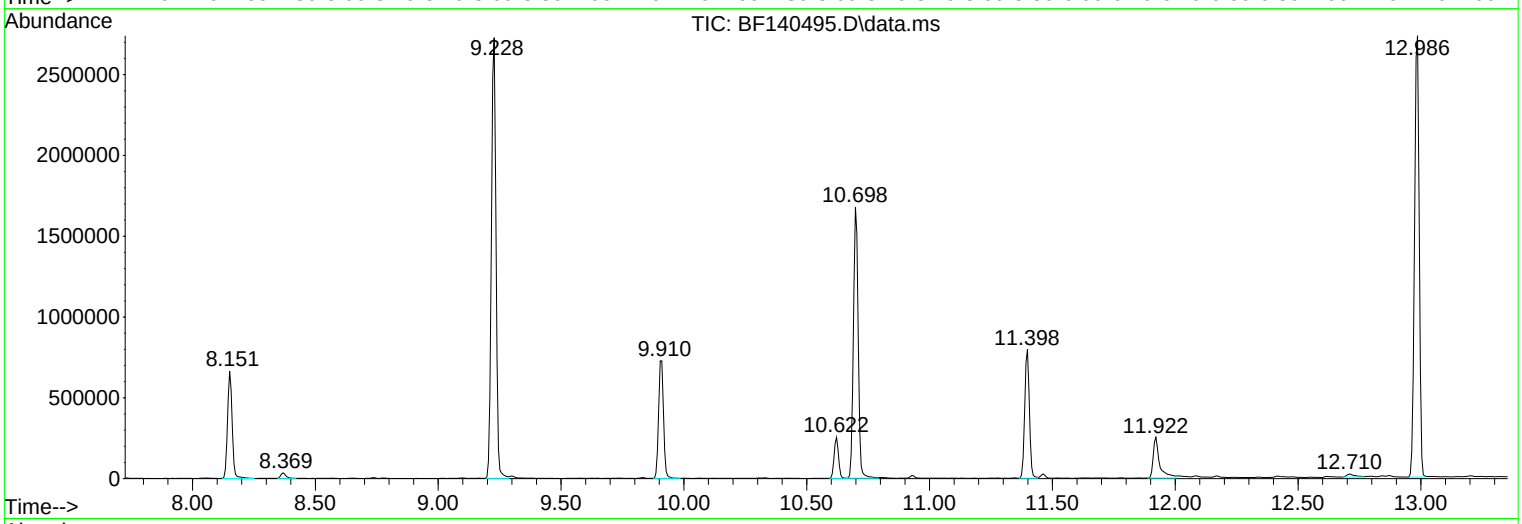
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140495.D
Acq On : 20 Nov 2024 12:42
Operator : RC/JU
Sample : P4892-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

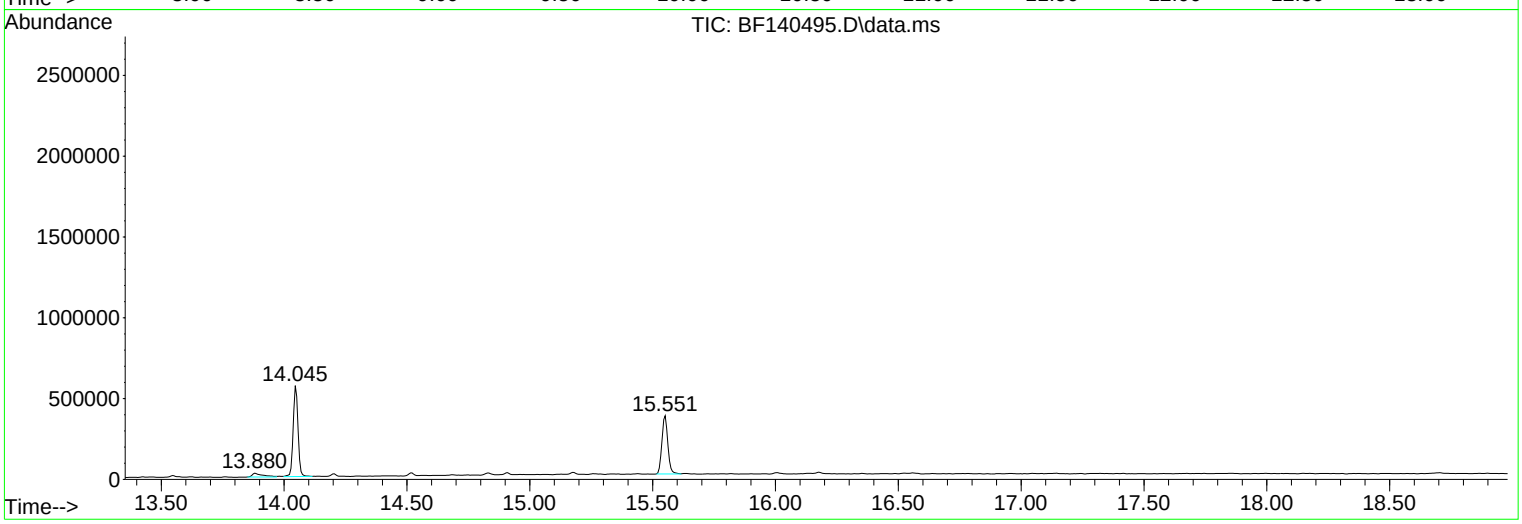
Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.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\BF112024\
Data File : BF140495.D
Acq On : 20 Nov 2024 12:42
Operator : RC/JU
Sample : P4892-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

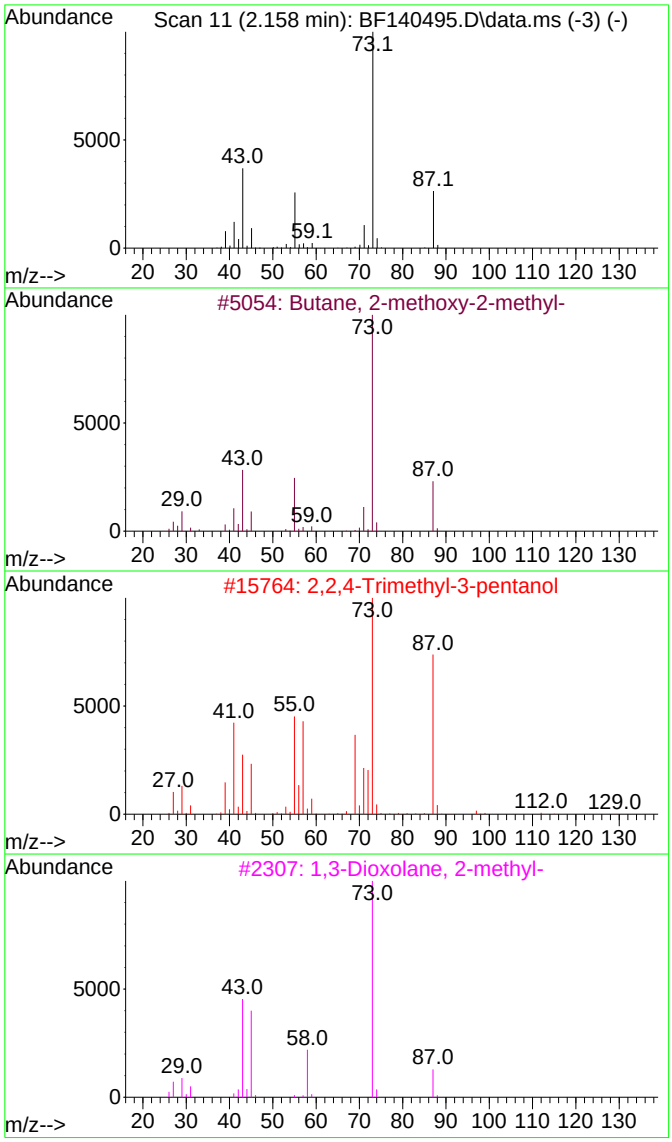
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

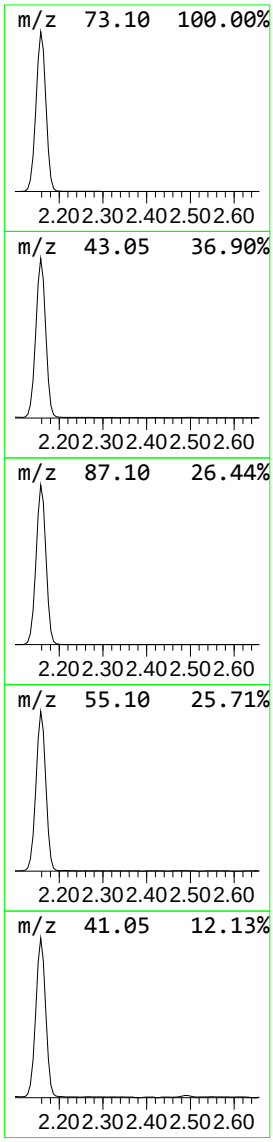
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.158	46.11 ng	1514960	1,4-Dichlorobenzene-d4	6.875

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	40
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
5	Silane, tetramethyl-	88	C4H12Si	000075-76-3	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140495.D
Acq On : 20 Nov 2024 12:42
Operator : RC/JU
Sample : P4892-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

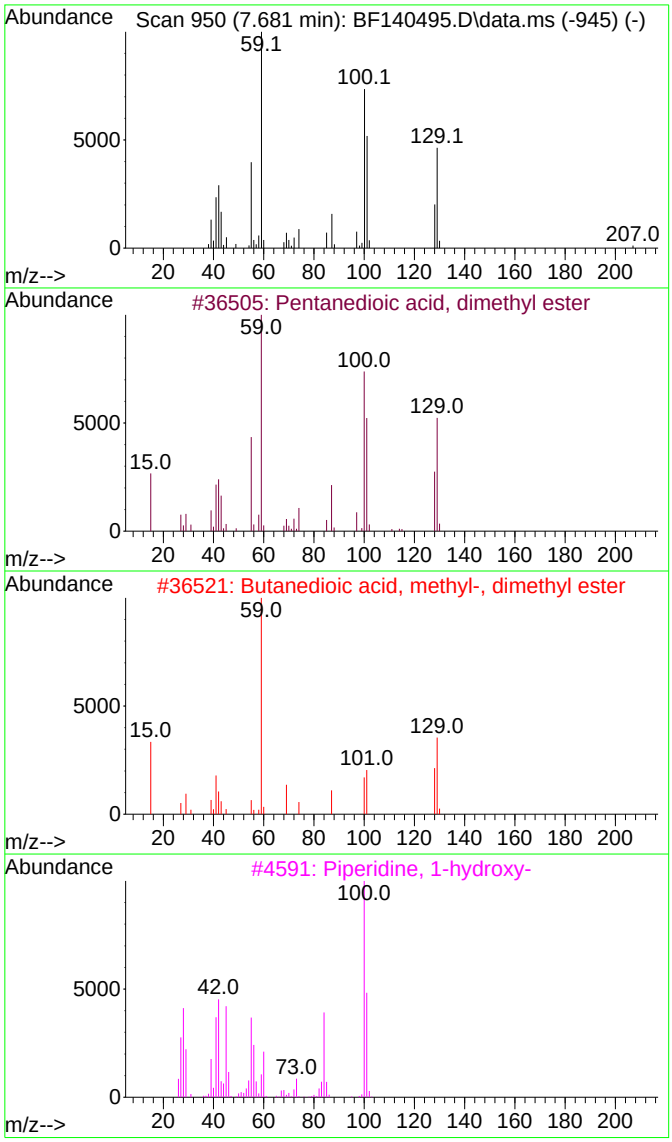
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

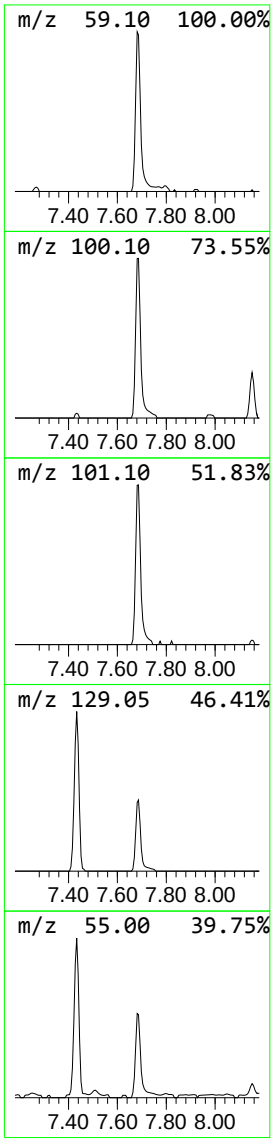
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 Pentanedioic acid, dimethyl... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.681	2.52 ng	109333	Naphthalene-d8	8.151

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanedioic acid, dimethyl ester	160	C7H12O4	001119-40-0	91
2	Butanedioic acid, methyl-, dimet...	160	C7H12O4	001604-11-1	47
3	Piperidine, 1-hydroxy-	101	C5H11NO	004801-58-5	35
4	Butanoic acid, 4-(2-methoxy-1-me...	204	C9H16O5	054966-46-0	25
5	1,4-Di-O-acetyl-2,5-di-O-methyl-...	262	C12H22O6	1000101-82-1	25





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140495.D
Acq On : 20 Nov 2024 12:42
Operator : RC/JU
Sample : P4892-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

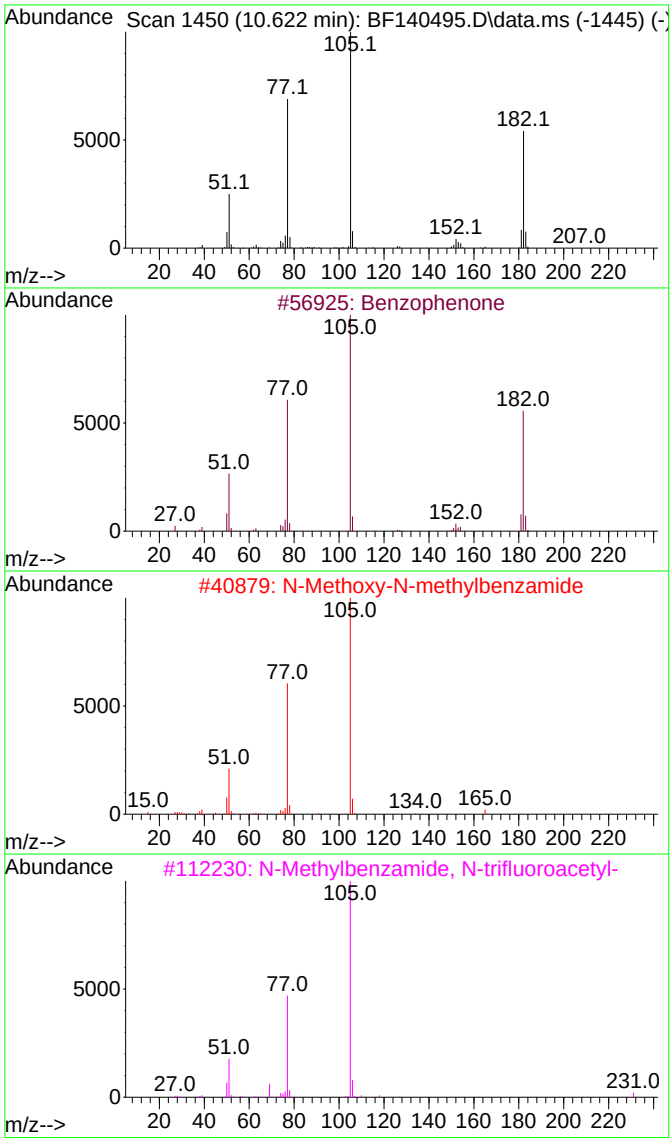
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

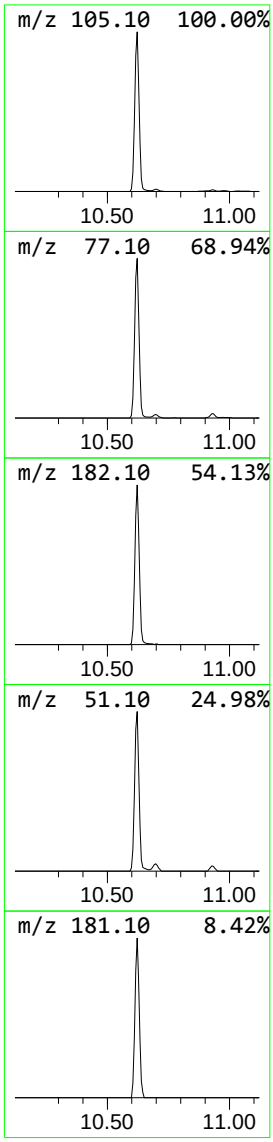
****

Peak Number 3 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.622	6.42 ng	316813	Acenaphthene-d10	9.910

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	49
3	N-Methylbenzamide, N-trifluoroac...	231	C10H8F3NO2	1000446-91-5	47
4	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	47
5	Vinyl benzoate	148	C9H8O2	000769-78-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140495.D
Acq On : 20 Nov 2024 12:42
Operator : RC/JU
Sample : P4892-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

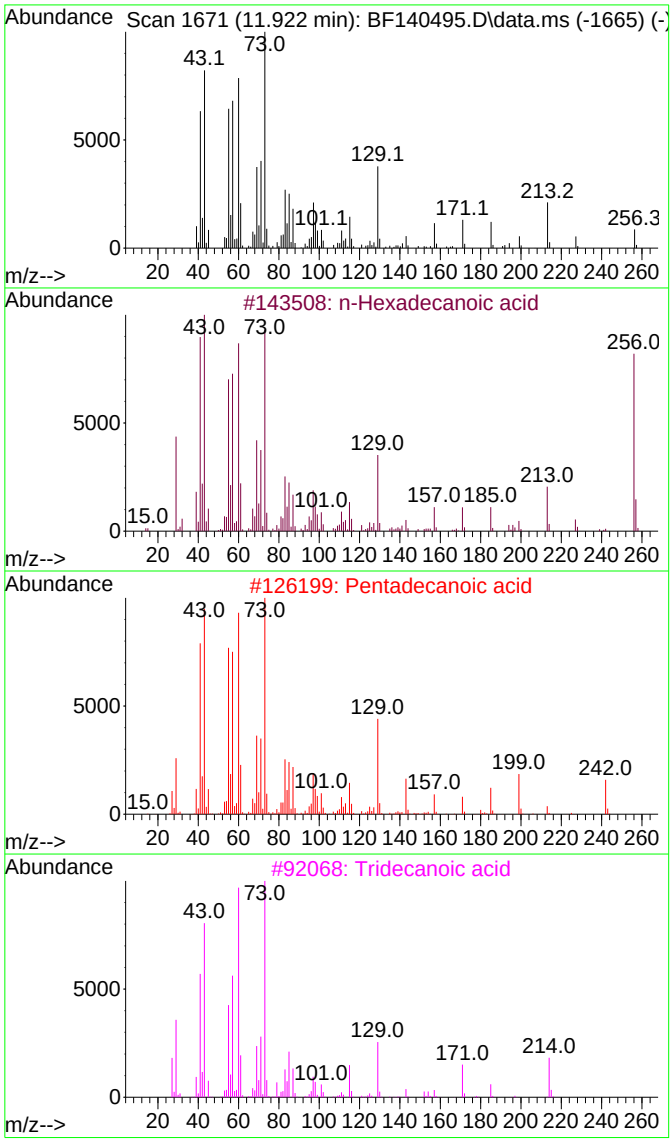
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

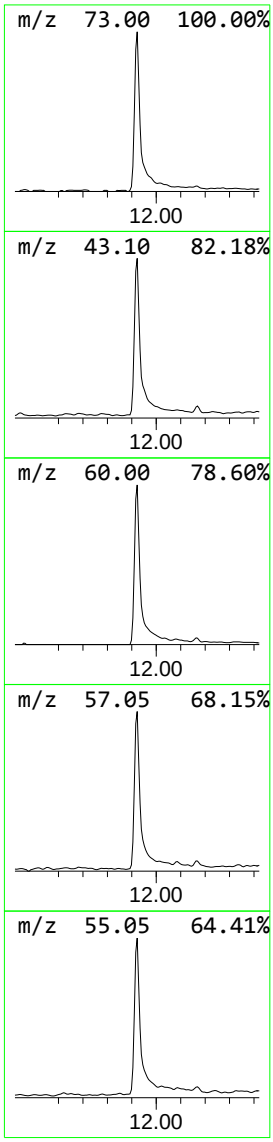
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.922	8.66 ng	452219	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	91
3	Tridecanoic acid	214	C13H26O2	000638-53-9	90
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	80
5	n-Decanoic acid	172	C10H20O2	000334-48-5	70





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140495.D
Acq On : 20 Nov 2024 12:42
Operator : RC/JU
Sample : P4892-02
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-BOT

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.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...	2.158	46.1	ng	1514960	1	6.875	657131	20.0
Pentanedioic ac...	7.681	2.5	ng	109333	2	8.151	866527	20.0
Benzophenone	10.622	6.4	ng	316813	3	9.910	987254	20.0
n-Hexadecanoic ...	11.922	8.7	ng	452219	4	11.398	1044540	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140607.D
Acq On : 25 Nov 2024 17:15
Operator : RC/JU
Sample : P4892-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Quant Time: Nov 26 00:08:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

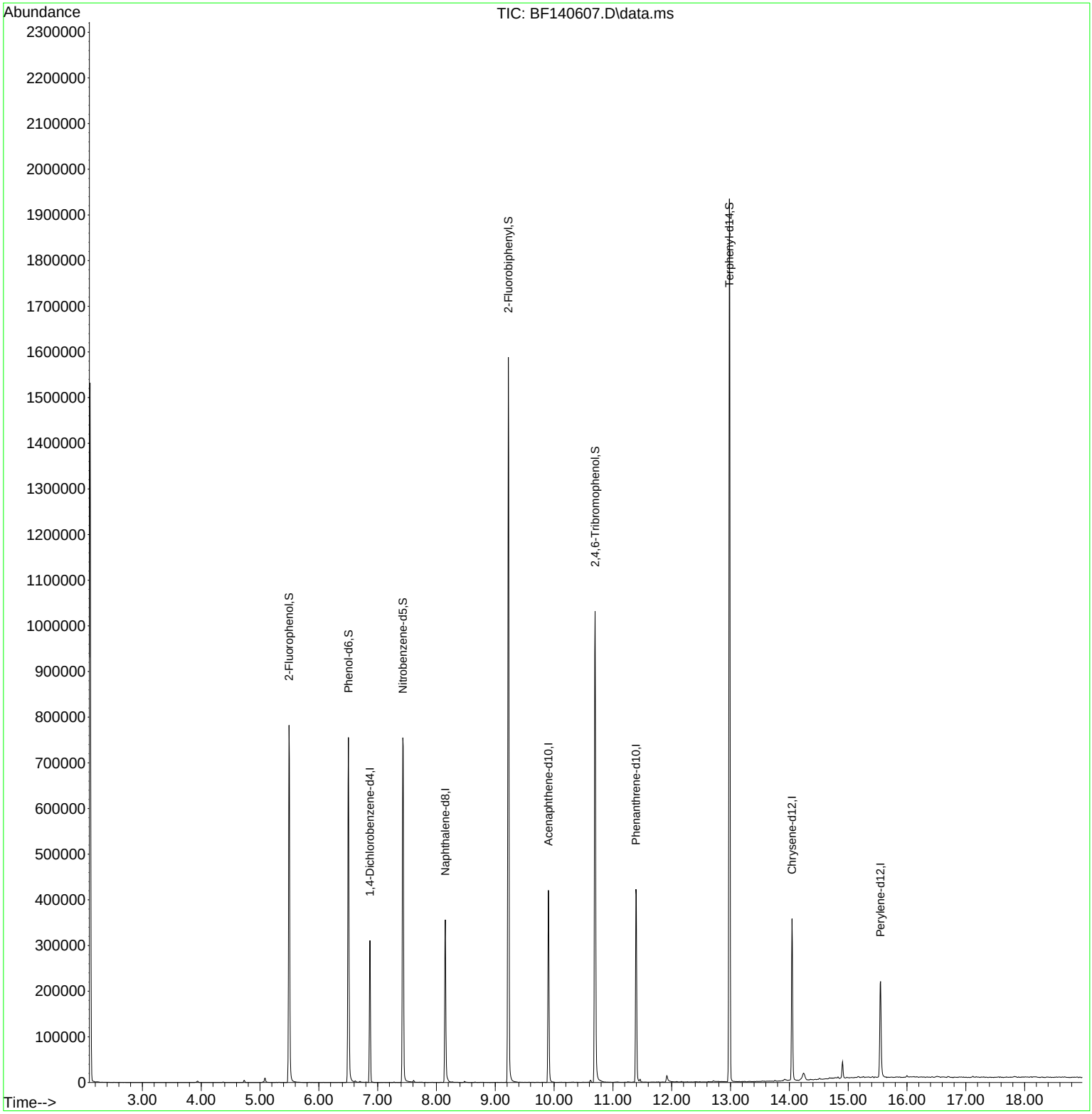
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	64480	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	239780	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	131138	20.000	ng	-0.01
64) Phenanthrene-d10	11.392	188	245059	20.000	ng	-0.01
76) Chrysene-d12	14.045	240	178129	20.000	ng	0.00
86) Perylene-d12	15.551	264	139529	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	298834	79.075	ng	0.00
7) Phenol-d6	6.504	99	355856	71.227	ng	-0.01
23) Nitrobenzene-d5	7.428	82	362946	77.424	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	186214	132.770	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	706233	80.240	ng	-0.01
79) Terphenyl-d14	12.980	244	962141	84.106	ng	-0.01
Target Compounds						Qvalue

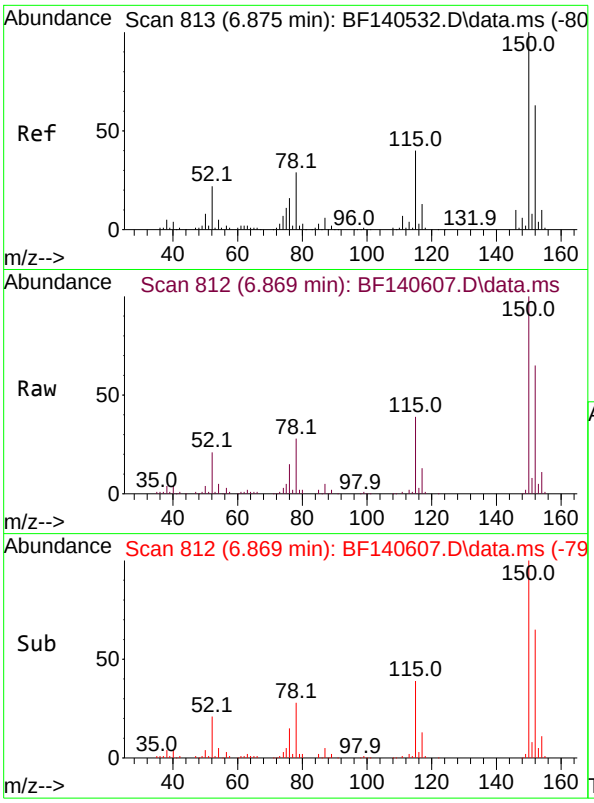
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140607.D
Acq On : 25 Nov 2024 17:15
Operator : RC/JU
Sample : P4892-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Quant Time: Nov 26 00:08:04 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



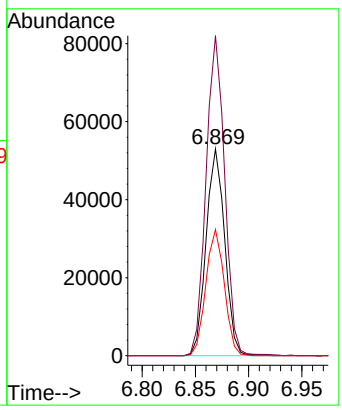


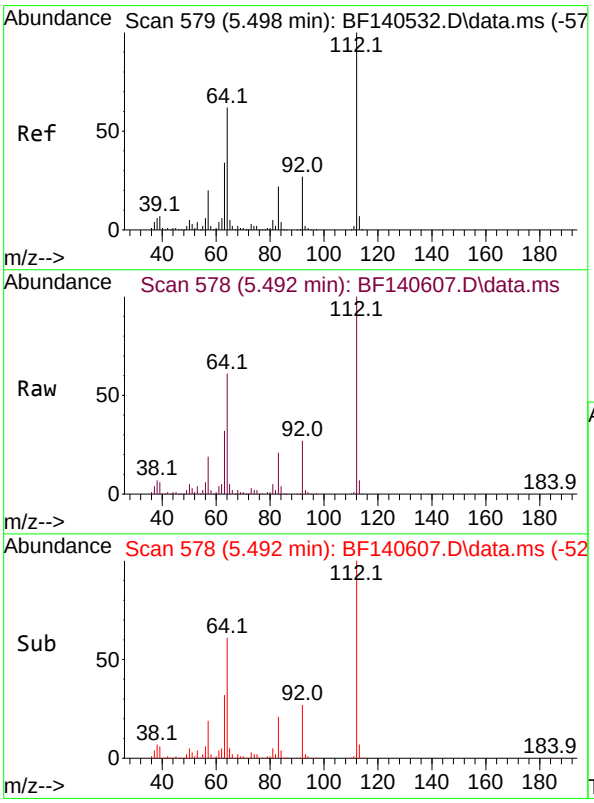
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Tgt Ion:152 Resp: 64480

Ion	Ratio	Lower	Upper
152	100		
150	154.7	128.5	192.7
115	61.0	50.2	75.4

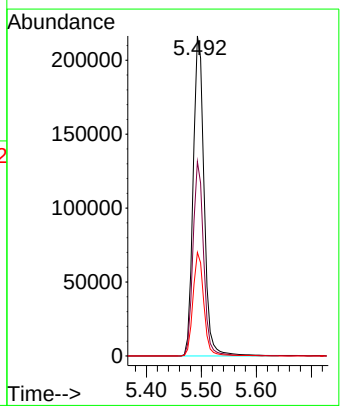


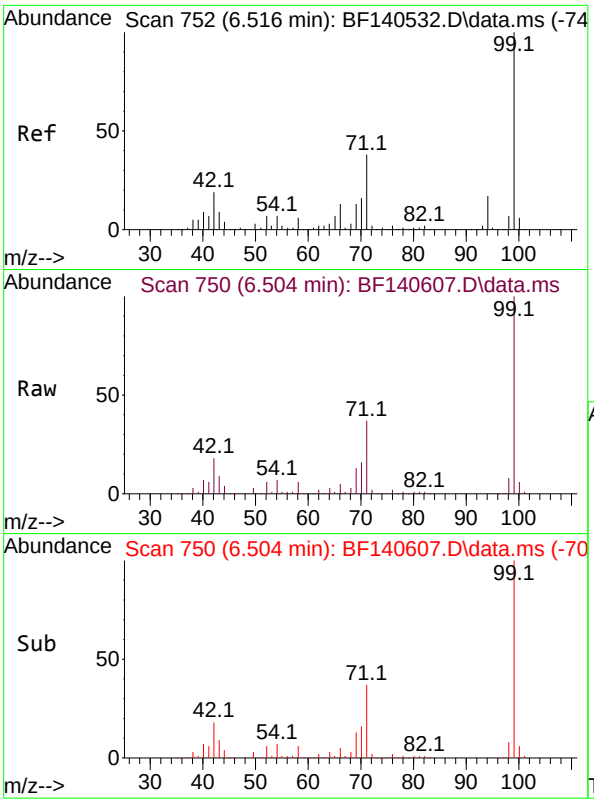


#5
2-Fluorophenol
Concen: 79.075 ng
RT: 5.492 min Scan# 578
Delta R.T. -0.006 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Tgt Ion:112 Resp: 298834

Ion	Ratio	Lower	Upper
112	100		
64	60.8	49.2	73.8
63	32.4	27.0	40.4



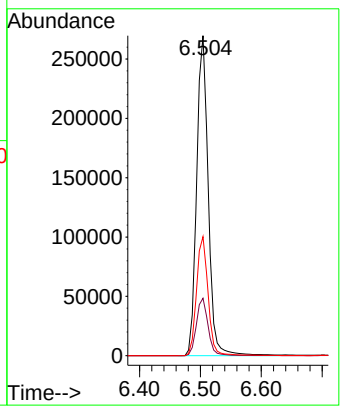


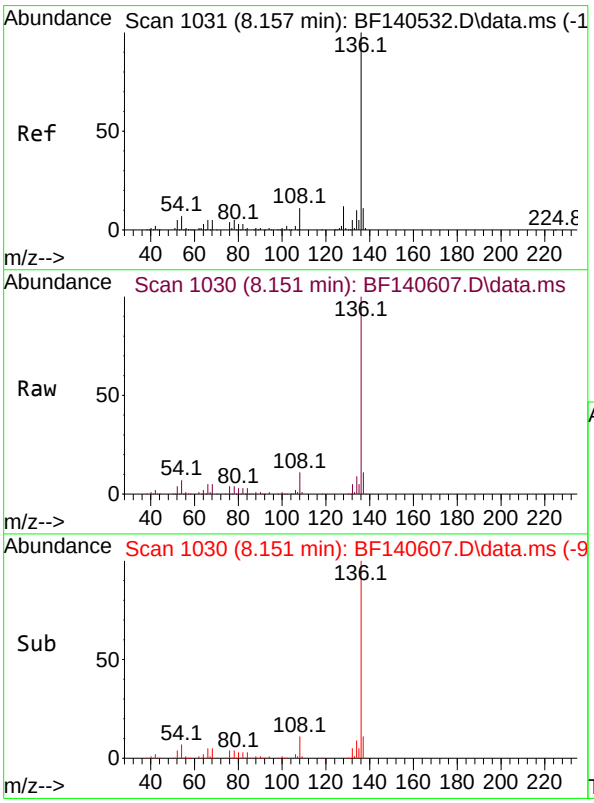
#7
Phenol-d6
Concen: 71.227 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Tgt Ion: 99 Resp: 355856

Ion	Ratio	Lower	Upper
99	100		
42	18.0	15.4	23.0
71	37.2	30.6	46.0

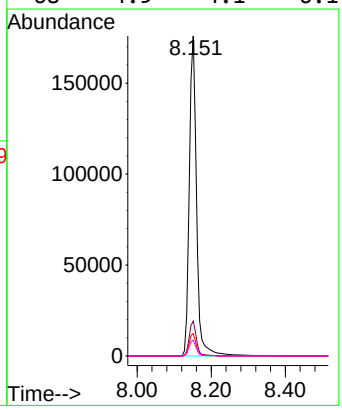


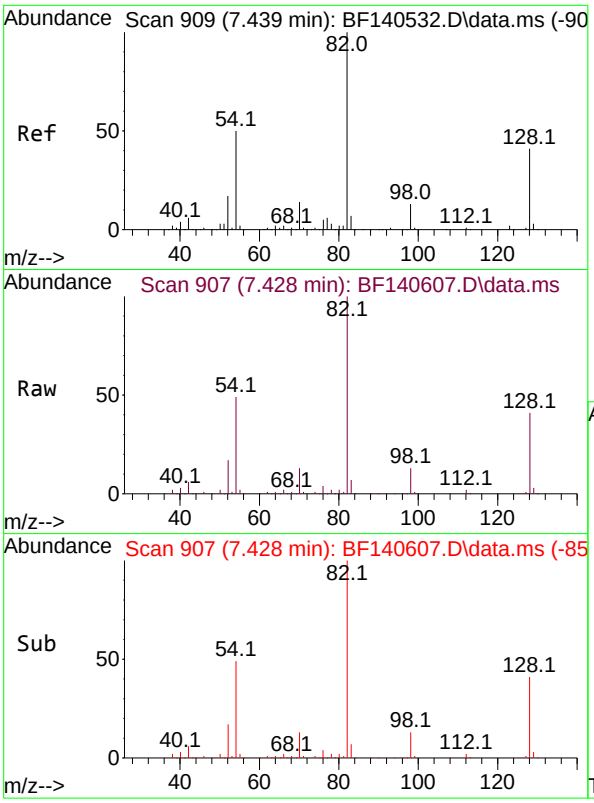


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Tgt Ion:136 Resp: 239780

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	13.0
54	7.0	5.8	8.8
68	4.9	4.1	6.1



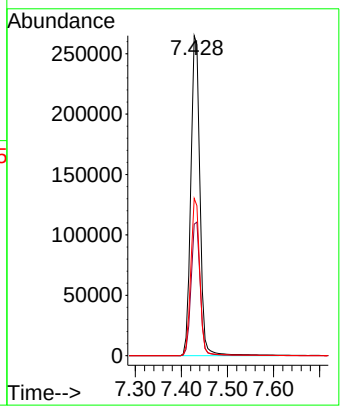


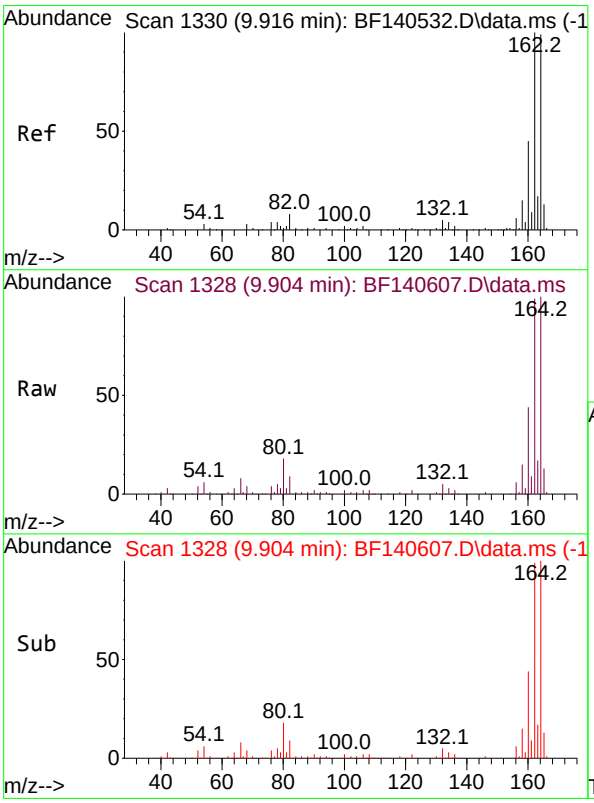
#23
Nitrobenzene-d5
Concen: 77.424 ng
RT: 7.428 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Tgt Ion: 82 Resp: 362946

Ion	Ratio	Lower	Upper
82	100		
128	41.1	33.0	49.4
54	49.1	39.5	59.3

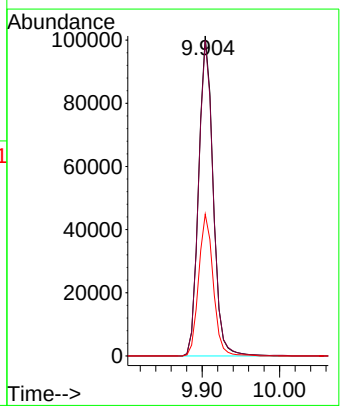


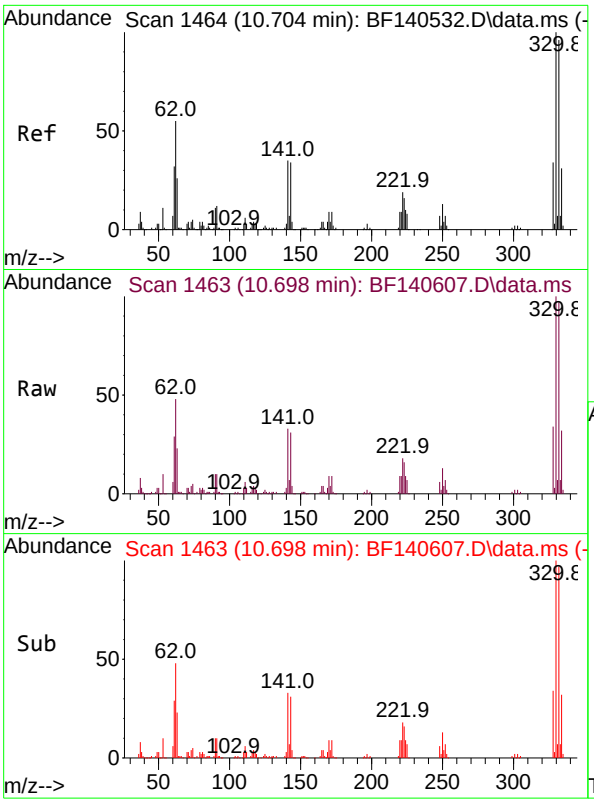


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Tgt Ion:164 Resp: 131138

Ion	Ratio	Lower	Upper
164	100		
162	98.5	80.6	120.8
160	44.3	36.2	54.4



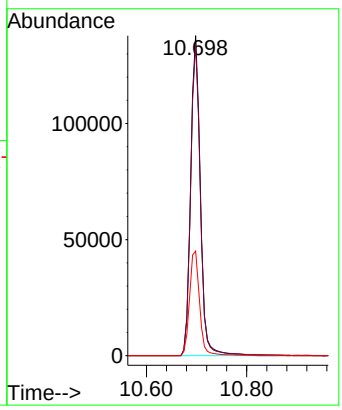


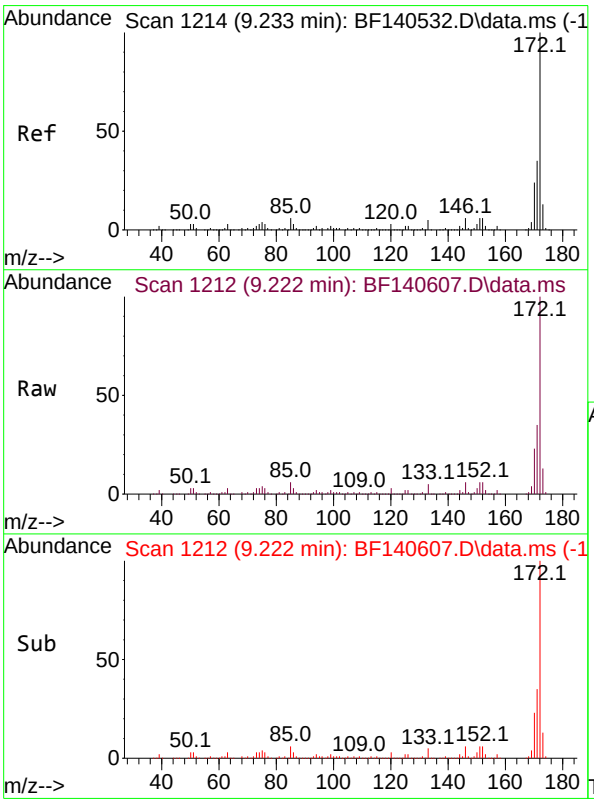
#42
2,4,6-Tribromophenol
Concen: 132.770 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Tgt Ion:330 Resp: 186214

Ion	Ratio	Lower	Upper
330	100		
332	97.1	76.9	115.3
141	34.0	26.7	40.1

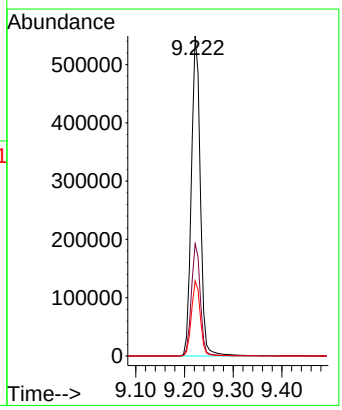


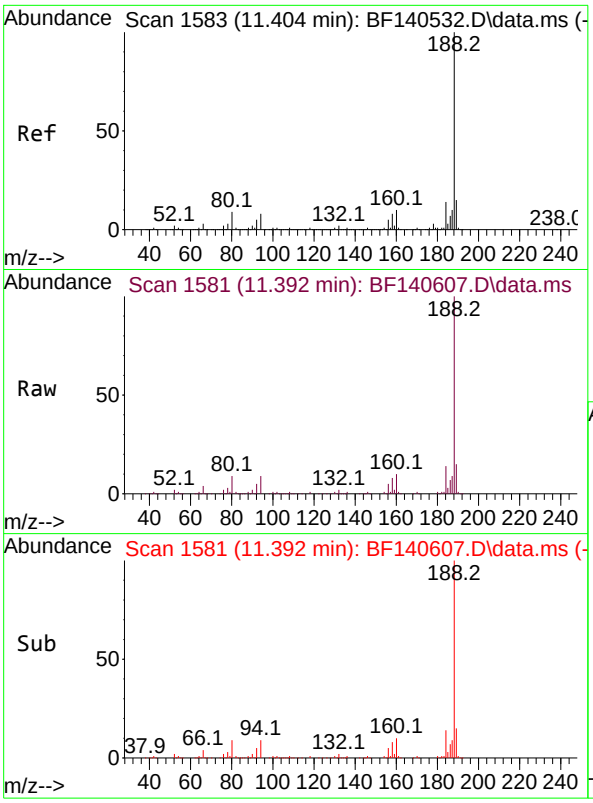


#45
2-Fluorobiphenyl
Concen: 80.240 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.012 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Tgt Ion:172 Resp: 706233

Ion	Ratio	Lower	Upper
172	100		
171	35.1	28.4	42.6
170	23.4	19.0	28.6



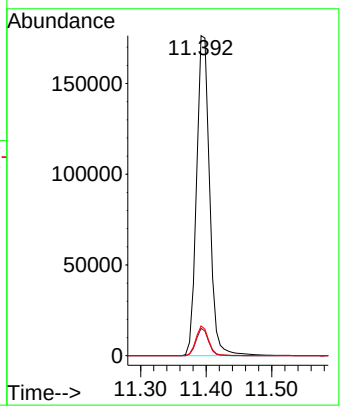


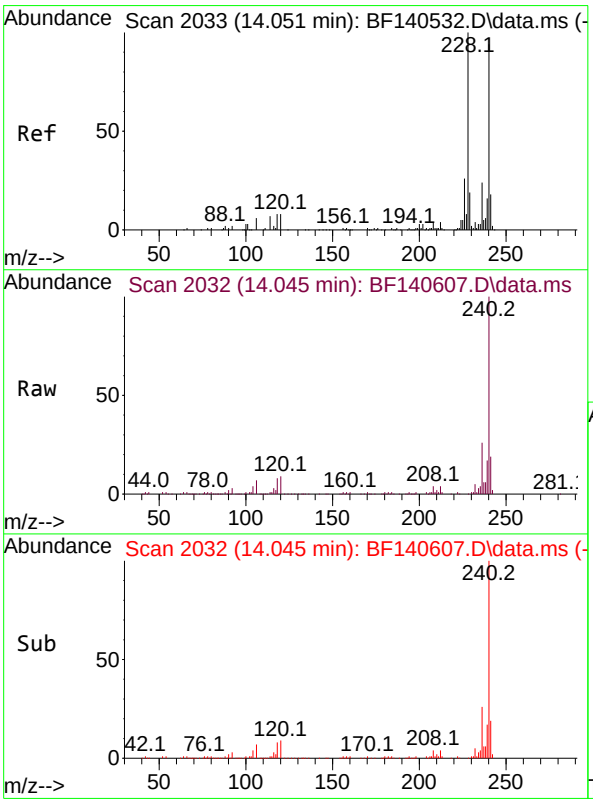
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Tgt Ion:188 Resp: 245059

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.4	9.6
80	9.3	6.9	10.3

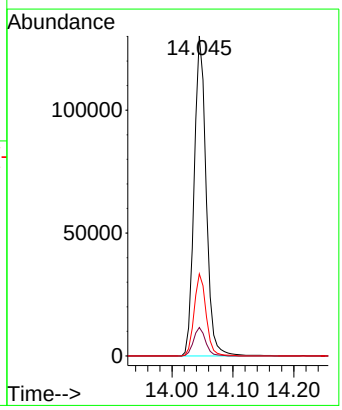


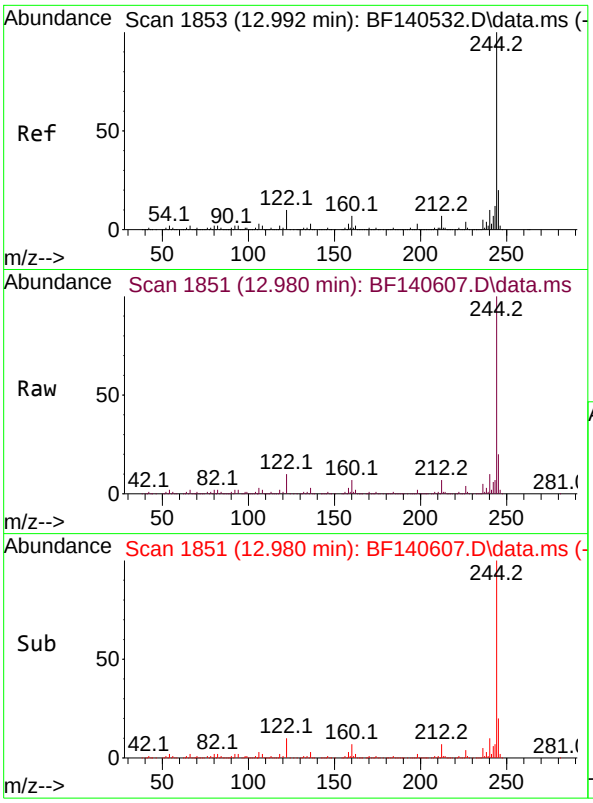


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Tgt Ion:240 Resp: 178129

Ion	Ratio	Lower	Upper
240	100		
120	8.9	7.3	10.9
236	25.7	20.6	31.0



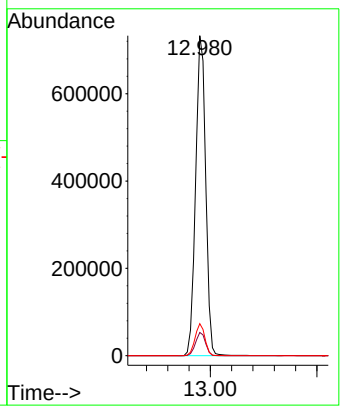


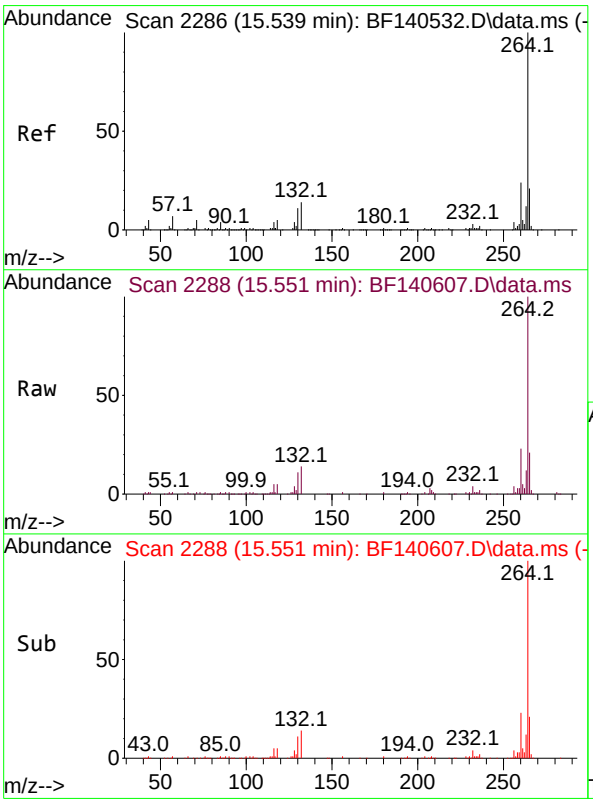
#79
Terphenyl-d14
Concen: 84.106 ng
RT: 12.980 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Tgt Ion:244 Resp: 962141

Ion	Ratio	Lower	Upper
244	100		
212	7.3	5.8	8.8
122	10.0	8.0	12.0

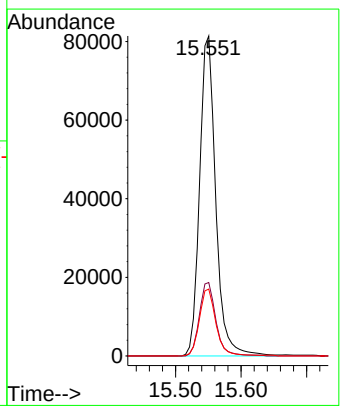




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.551 min Scan# 2288
Delta R.T. 0.012 min
Lab File: BF140607.D
Acq: 25 Nov 2024 17:15

Tgt Ion:264 Resp: 139529

Ion	Ratio	Lower	Upper
264	100		
260	22.9	19.0	28.6
265	20.9	16.6	25.0



Sample Results: **BF140607.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140607.D
Acq On : 25 Nov 2024 17:15
Operator : RC/JU
Sample : P4892-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

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-BF112124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140607.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.492	573	578	595	rBV	782418	1060882	42.29%	8.881%
2	6.504	744	750	766	rBV	755356	998343	39.80%	8.357%
3	6.869	807	812	823	rBV	311064	375630	14.98%	3.144%
4	7.428	902	907	934	rBV	754911	1027172	40.95%	8.599%
5	8.151	1025	1030	1048	rBV	356101	474414	18.91%	3.971%
6	9.222	1207	1212	1243	rBV	1588272	2020226	80.54%	16.911%
7	9.904	1323	1328	1340	rBV	420737	542458	21.63%	4.541%
8	10.698	1457	1463	1478	rBV	1031783	1413271	56.34%	11.831%
9	11.392	1576	1581	1590	rBV	422554	572370	22.82%	4.791%
10	11.916	1665	1670	1683	rBV3	13986	29119	1.16%	0.244%
11	12.980	1845	1851	1862	rBV	1933619	2508357	100.00%	20.998%
12	14.045	2027	2032	2044	rVB	353712	471472	18.80%	3.947%
13	14.239	2054	2065	2076	rBV9	14781	47562	1.90%	0.398%
14	14.904	2173	2178	2186	rVB	35253	48801	1.95%	0.409%
15	15.551	2281	2288	2303	rVB	209409	355860	14.19%	2.979%

Sum of corrected areas: 11945937

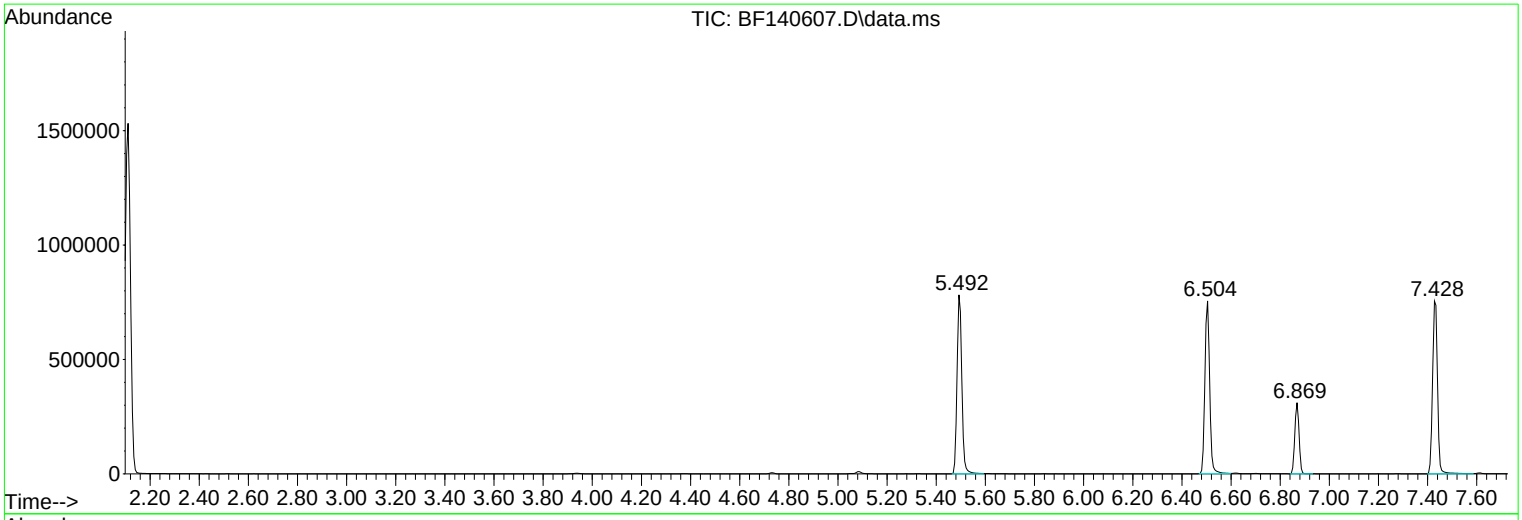
Sample Results: **BF140607.D**

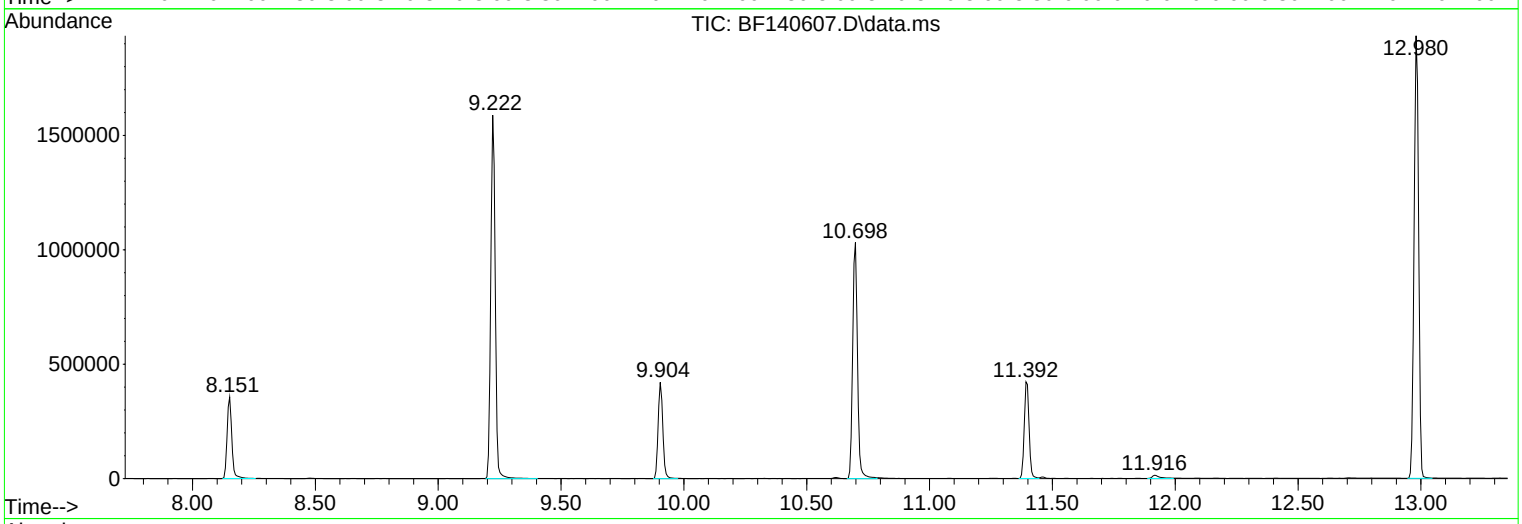
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140607.D
Acq On : 25 Nov 2024 17:15
Operator : RC/JU
Sample : P4892-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

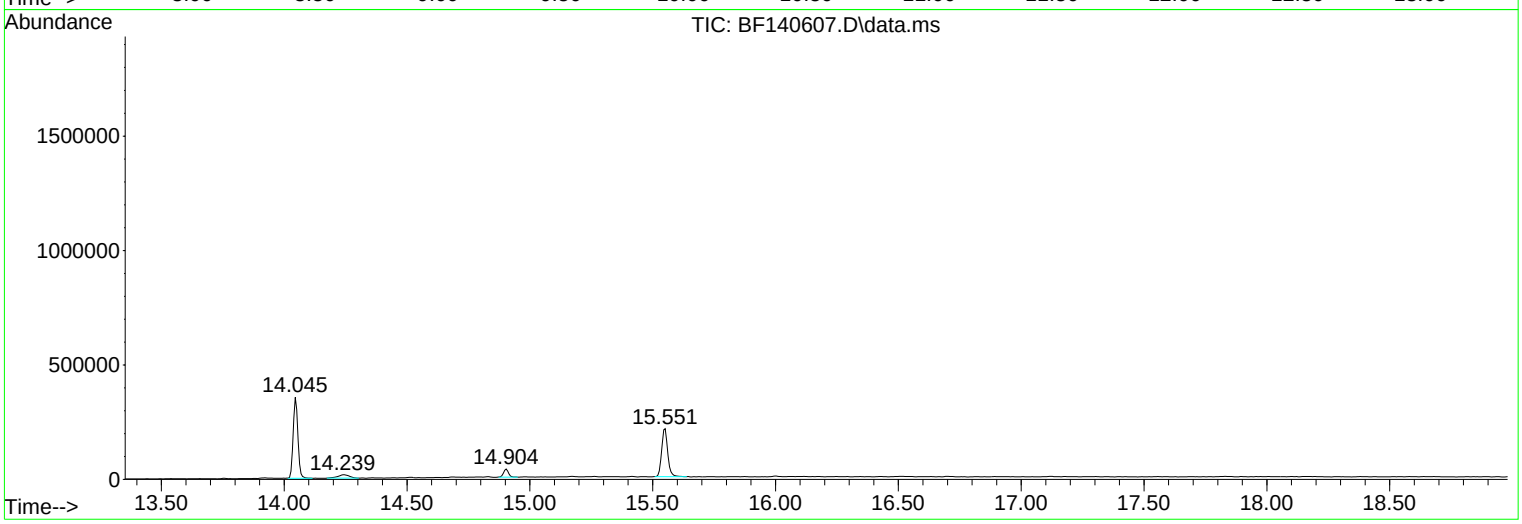
Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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\BF112524\
Data File : BF140607.D
Acq On : 25 Nov 2024 17:15
Operator : RC/JU
Sample : P4892-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

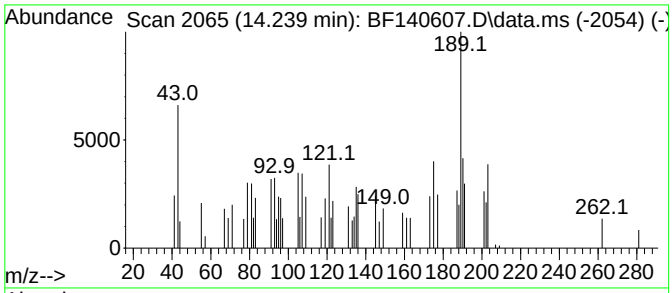
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

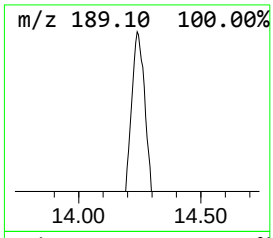
****

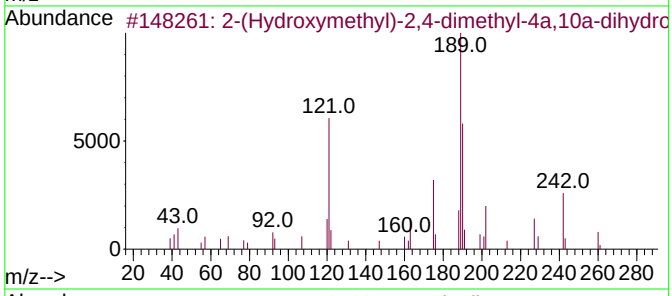
Peak Number 1 unknown14.239 Concentration Rank 2

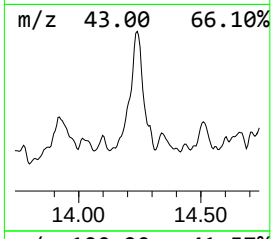
R.T.	EstConc	Area	Relative to ISTD	R.T.
14.239	2.02 ng	47562	Chrysene-d12	14.045

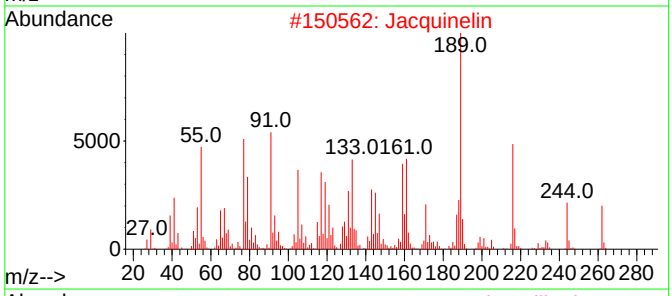
Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-(Hydroxymethyl)-2,4-dimethyl-4...	260	C15H16O4	1005254-37-4	37
2	Jacquinelin	262	C15H18O4	007726-34-3	27
3	2H-1-Benzopyran-2-one, 6-(2,3-di...	278	C15H18O5	036149-96-9	16
4	.alpha.-Cyano-4-hydroxycinnamic ...	189	C10H7NO3	028166-41-8	14
5	2-Phenyl-1,3-thiazole-5-carbalde...	189	C10H7NOS	001011-40-1	12

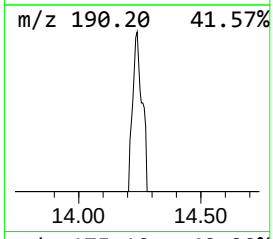


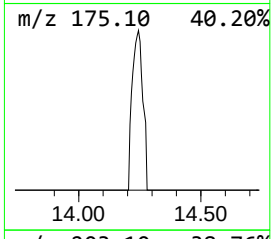


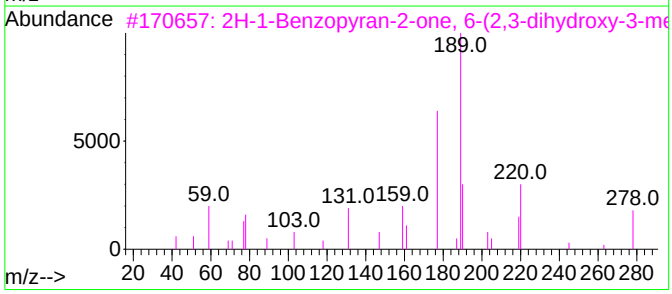


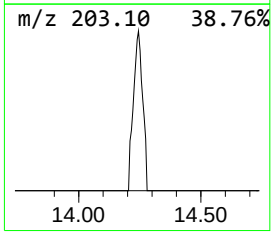












Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140607.D
Acq On : 25 Nov 2024 17:15
Operator : RC/JU
Sample : P4892-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

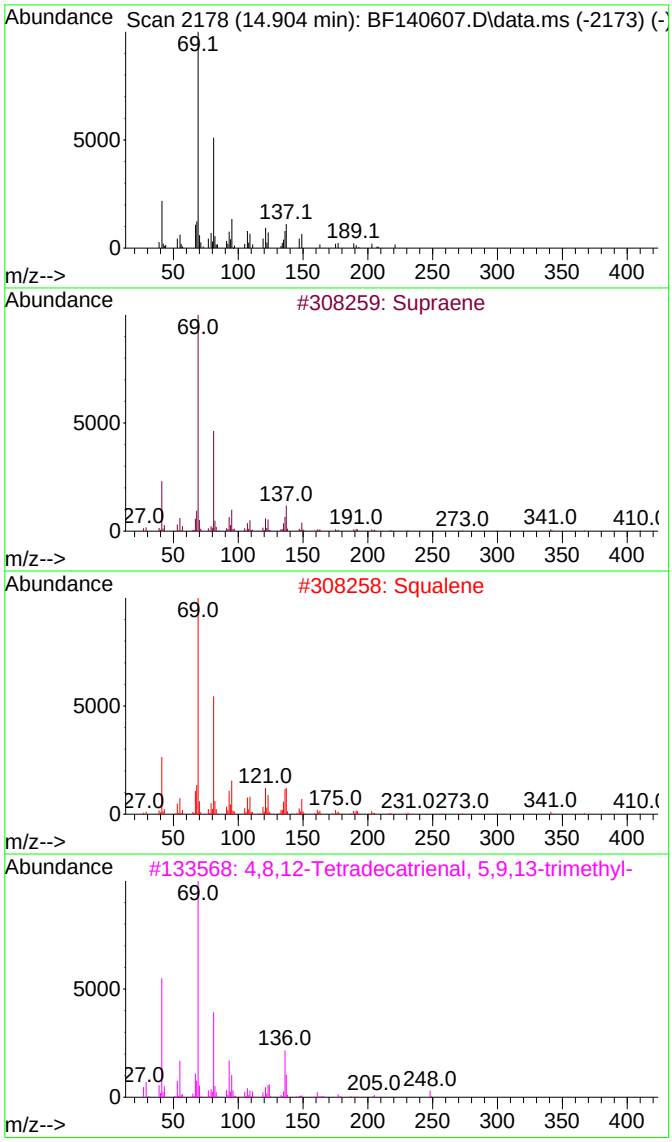
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

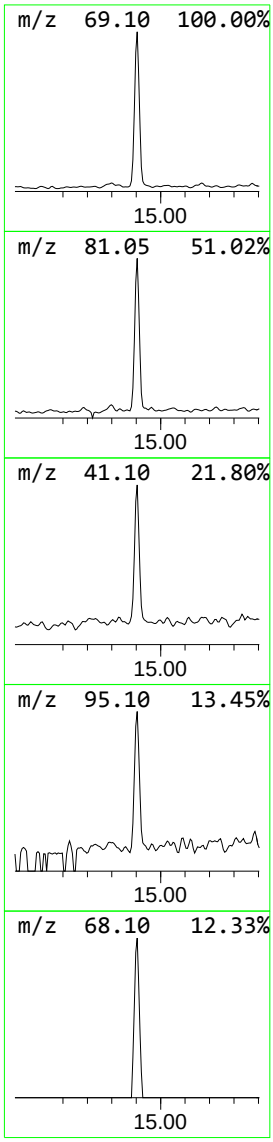
****

Peak Number 2 Supraene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.904	2.74 ng	48801	Perylene-d12	15.551

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Supraene	410	C30H50	007683-64-9	91
2	Squalene	410	C30H50	000111-02-4	87
3	4,8,12-Tetradecatrienal, 5,9,13-...	248	C17H28O	066408-55-7	86
4	trans-Farnesol	222	C15H26O	000106-28-5	72
5	(2E,6E)-3,7,11-Trimethyldodeca-2...	376	C25H44O2	078368-57-7	72





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140607.D
Acq On : 25 Nov 2024 17:15
Operator : RC/JU
Sample : P4892-04
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-310-SW

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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
unknown14.239	14.239	2.0	ng	47562	5	14.045	471472	20.0
Supraene	14.904	2.7	ng	48801	6	15.551	355860	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140502.D
Acq On : 20 Nov 2024 16:25
Operator : RC/JU
Sample : PB165086BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165086BL

Quant Time: Nov 20 17:06:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

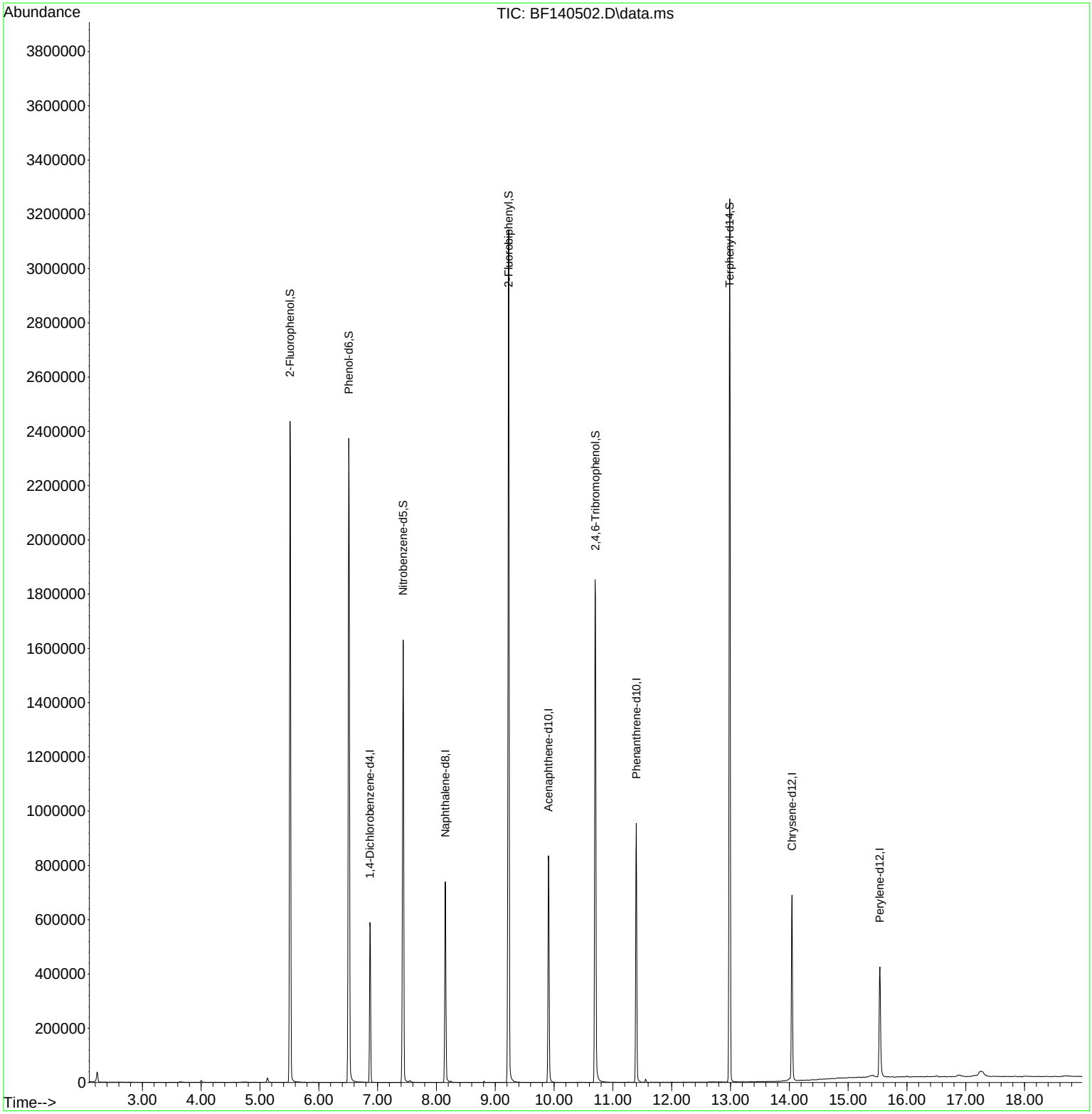
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	127581	20.000	ng	-0.01
21) Naphthalene-d8	8.151	136	485914	20.000	ng	0.00
39) Acenaphthene-d10	9.904	164	273616	20.000	ng	-0.01
64) Phenanthrene-d10	11.398	188	524410	20.000	ng	0.00
76) Chrysene-d12	14.045	240	336229	20.000	ng	0.00
86) Perylene-d12	15.539	264	269895	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	929313	124.368	ng	0.02
7) Phenol-d6	6.510	99	1217108	120.223	ng	0.00
23) Nitrobenzene-d5	7.434	82	803231	86.127	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	349607	128.490	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	1476829	86.767	ng	0.00
79) Terphenyl-d14	12.986	244	1657784	85.584	ng	0.00
Target Compounds						Qvalue

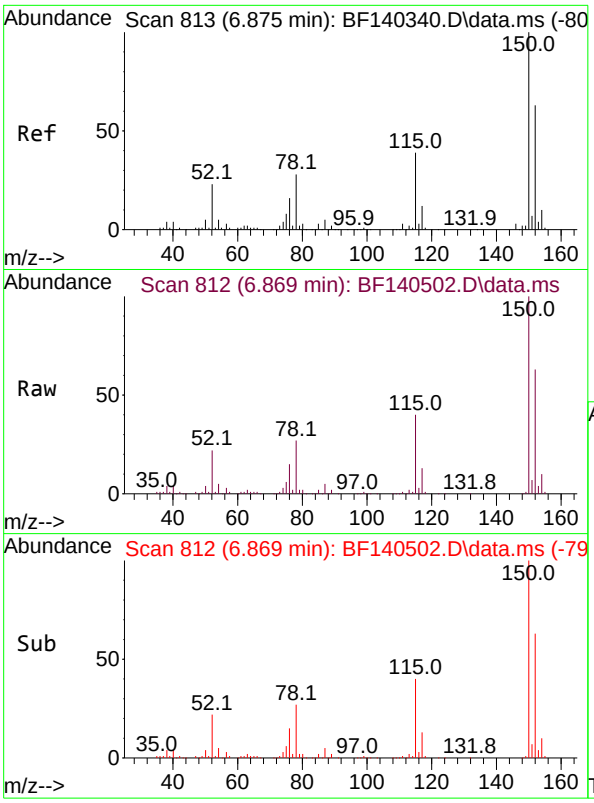
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140502.D
Acq On : 20 Nov 2024 16:25
Operator : RC/JU
Sample : PB165086BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165086BL

Quant Time: Nov 20 17:06:00 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration



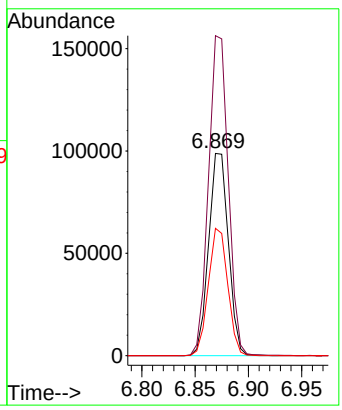


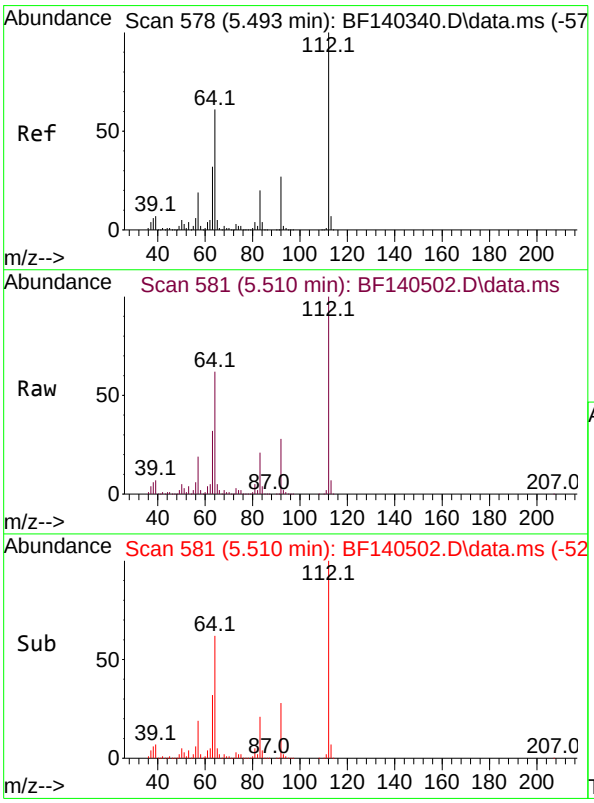
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Instrument :
BNA_F
ClientSampleId :
PB165086BL

Tgt Ion:152 Resp: 127581

Ion	Ratio	Lower	Upper
152	100		
150	158.2	127.4	191.0
115	63.0	47.4	71.2

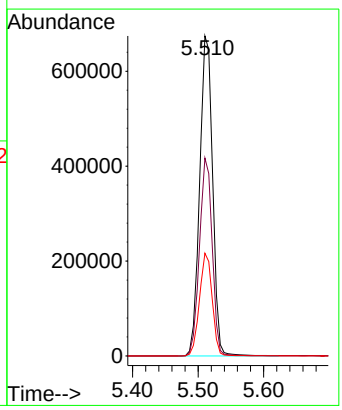


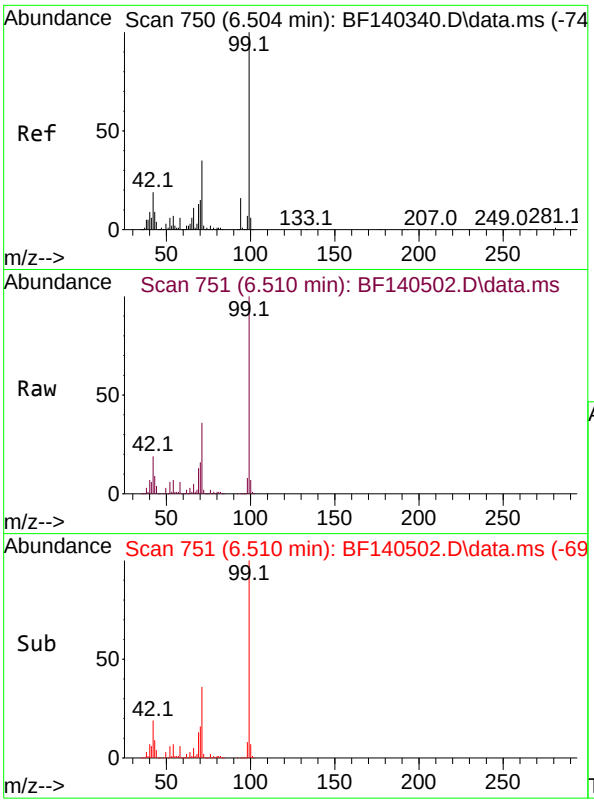


#5
2-Fluorophenol
Concen: 124.368 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.018 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Tgt Ion:112 Resp: 929313

Ion	Ratio	Lower	Upper
112	100		
64	61.9	49.2	73.8
63	32.1	25.6	38.4



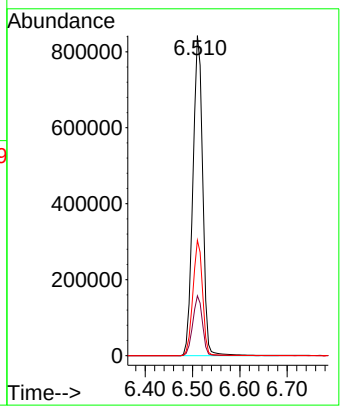


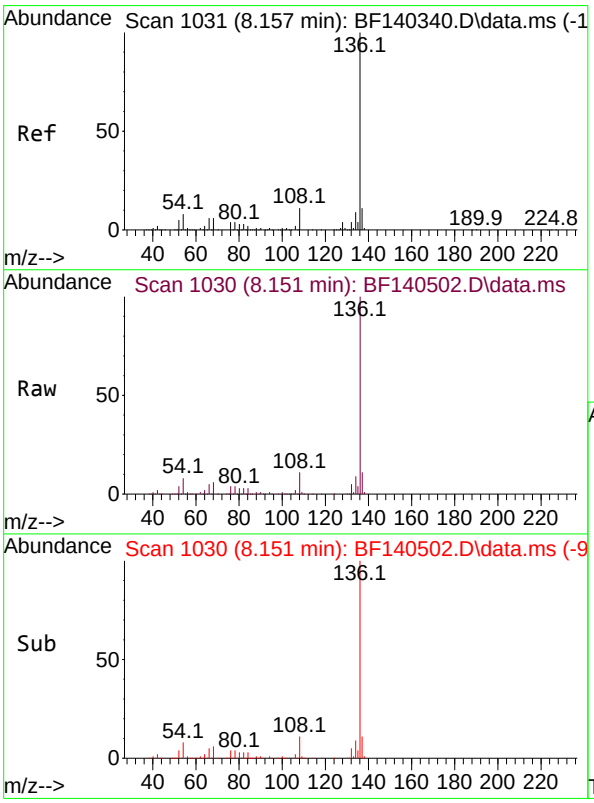
#7
Phenol-d6
Concen: 120.223 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.006 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Instrument :
BNA_F
ClientSampleId :
PB165086BL

Tgt Ion: 99 Resp: 1217108

Ion	Ratio	Lower	Upper
99	100		
42	18.7	15.1	22.7
71	36.1	27.9	41.9

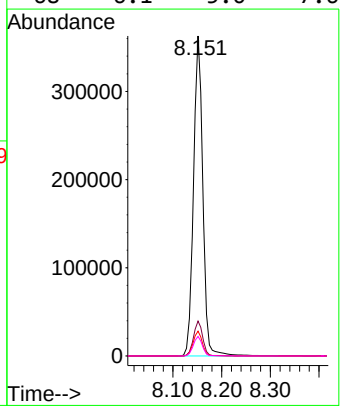


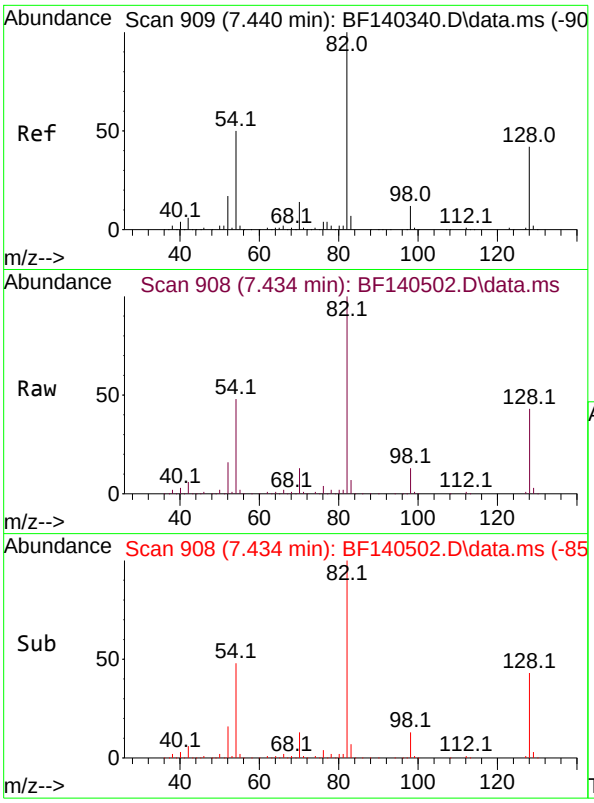


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Tgt Ion:136 Resp: 485914

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.7	13.1
54	7.7	6.5	9.7
68	6.1	5.0	7.6



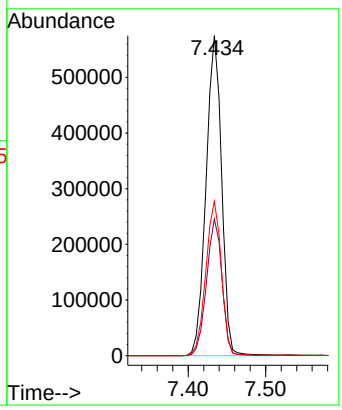


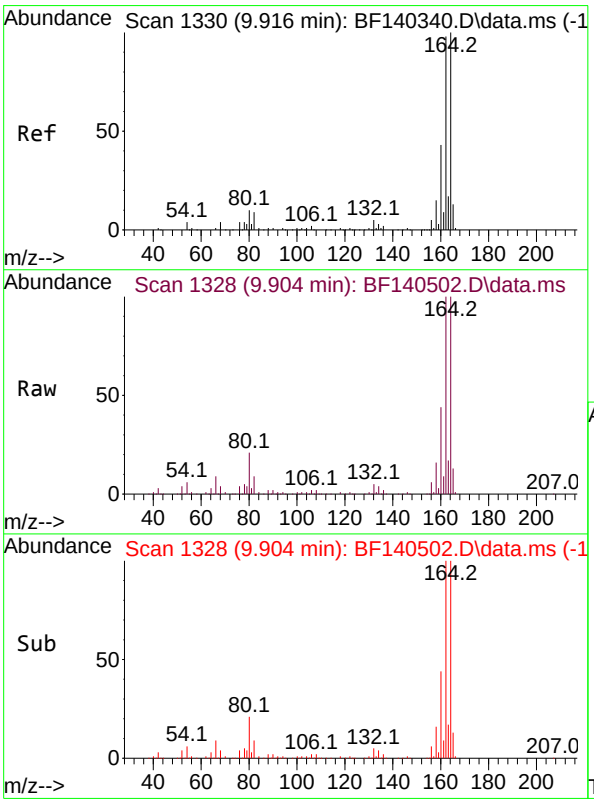
#23
Nitrobenzene-d5
Concen: 86.127 ng
RT: 7.434 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Instrument :
BNA_F
ClientSampleId :
PB165086BL

Tgt Ion: 82 Resp: 803231

Ion	Ratio	Lower	Upper
82	100		
128	42.7	33.3	49.9
54	48.2	39.8	59.8

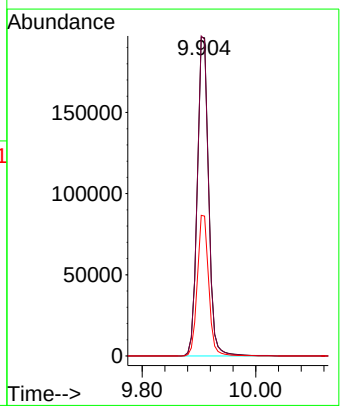


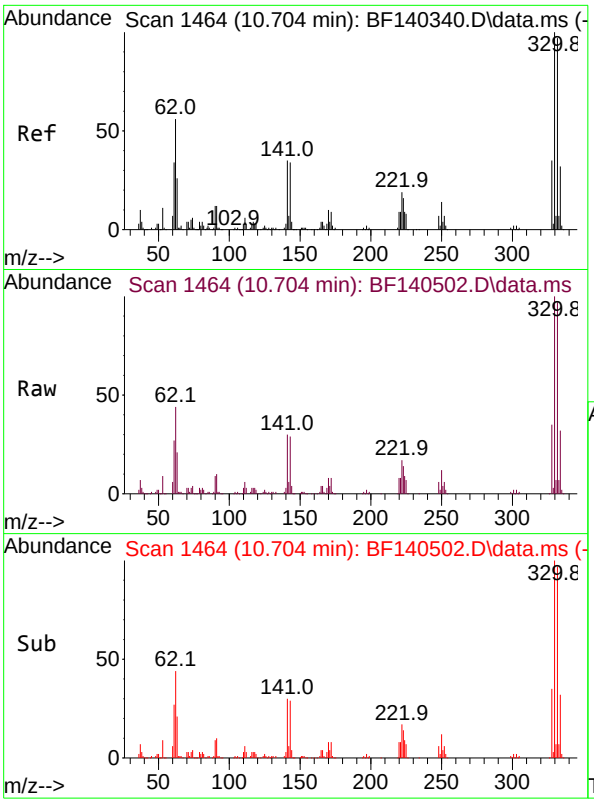


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Tgt Ion:164 Resp: 273616

Ion	Ratio	Lower	Upper
164	100		
162	100.3	79.8	119.8
160	44.1	35.4	53.0



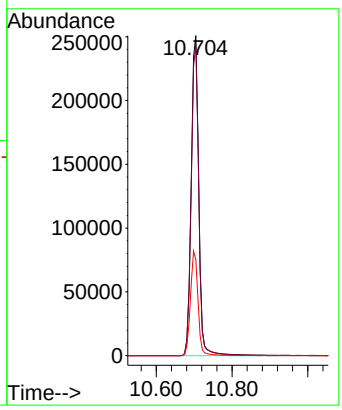


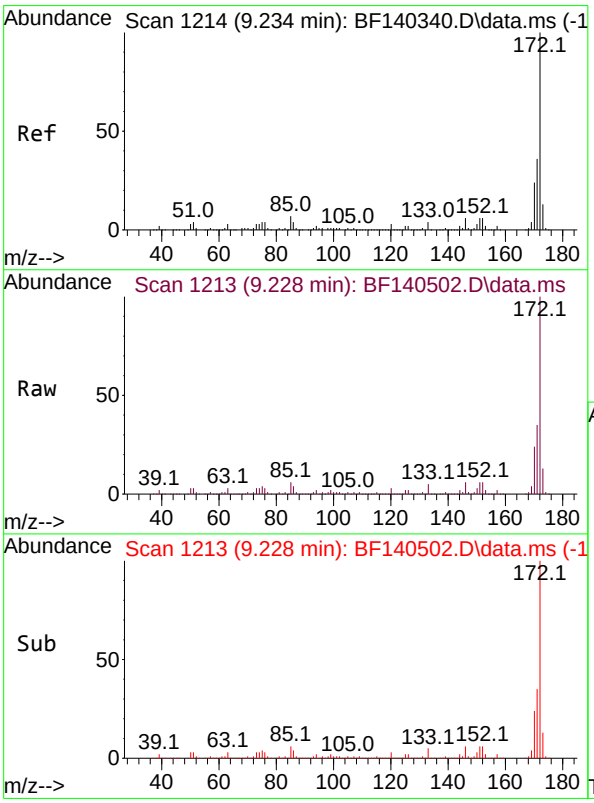
#42
2,4,6-Tribromophenol
Concen: 128.490 ng
RT: 10.704 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Instrument :
BNA_F
ClientSampleId :
PB165086BL

Tgt Ion:330 Resp: 349607

Ion	Ratio	Lower	Upper
330	100		
332	96.8	75.9	113.9
141	32.7	26.9	40.3

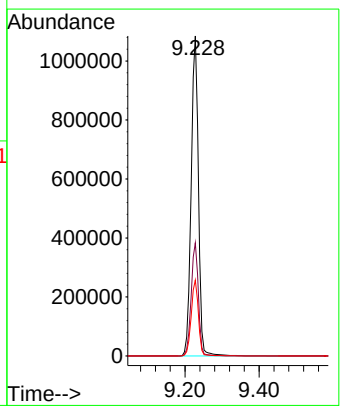


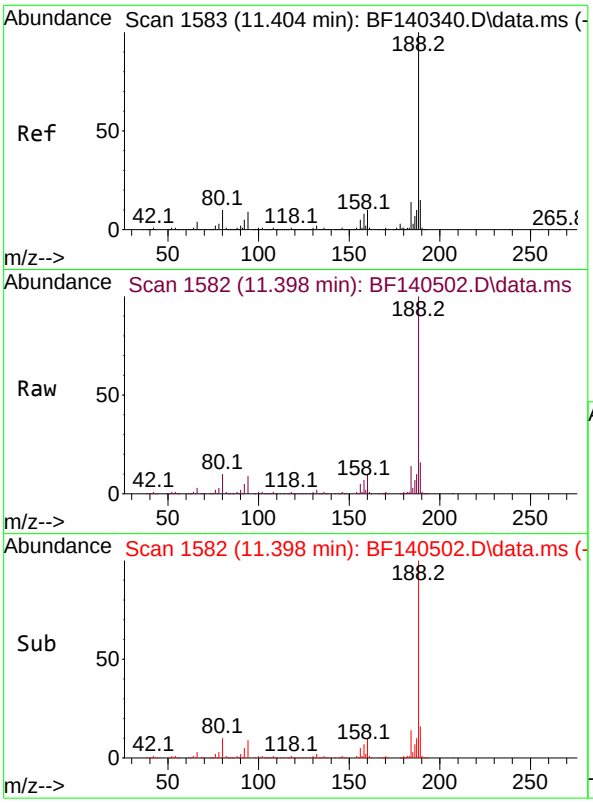


#45
2-Fluorobiphenyl
Concen: 86.767 ng
RT: 9.228 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Tgt Ion:172 Resp: 1476829

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.5	42.7
170	23.7	19.1	28.7



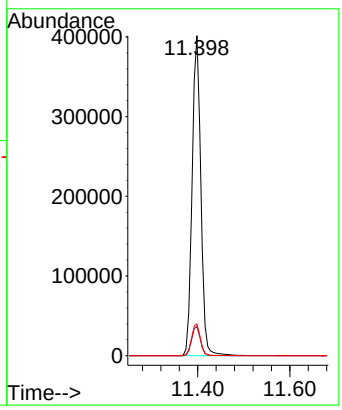


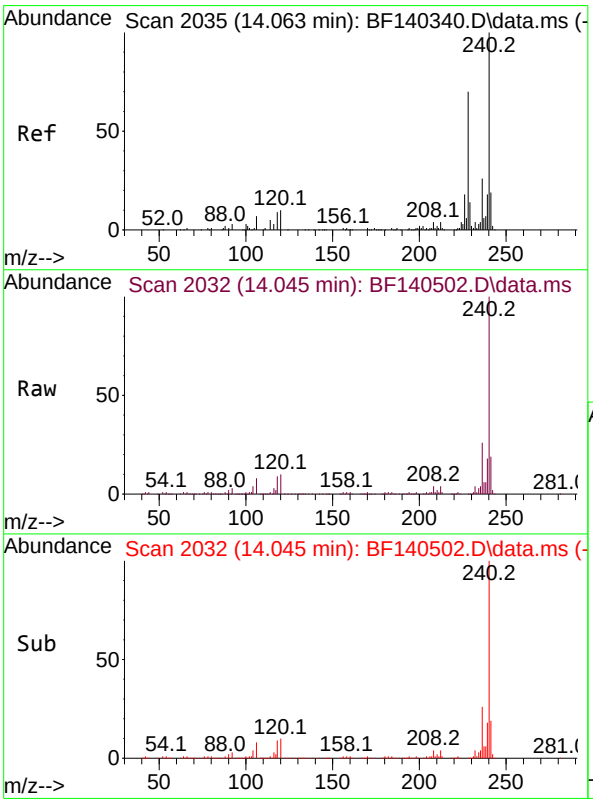
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Instrument :
BNA_F
ClientSampleId :
PB165086BL

Tgt Ion:188 Resp: 524410

Ion	Ratio	Lower	Upper
188	100		
94	9.1	7.6	11.4
80	9.9	8.0	12.0

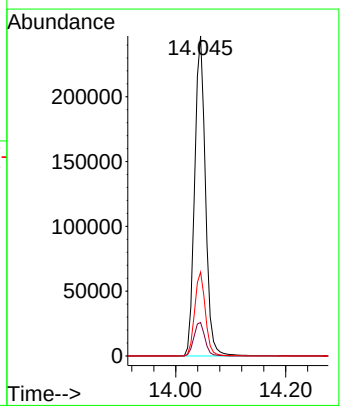


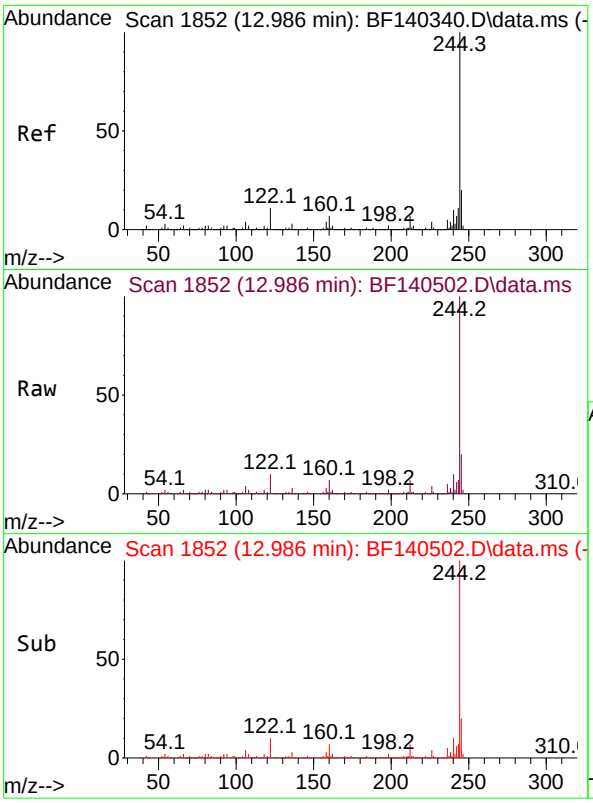


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Tgt Ion:240 Resp: 336229

Ion	Ratio	Lower	Upper
240	100		
120	10.4	8.8	13.2
236	26.2	20.9	31.3



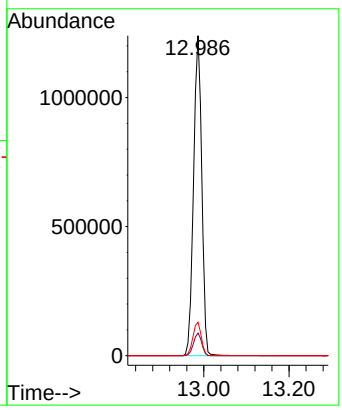


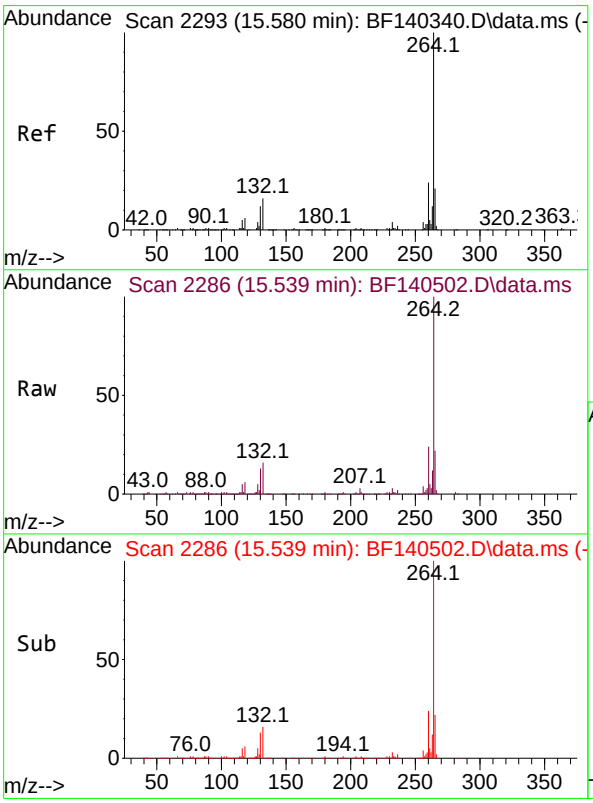
#79
Terphenyl-d14
Concen: 85.584 ng
RT: 12.986 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Instrument :
BNA_F
ClientSampleId :
PB165086BL

Tgt Ion:244 Resp: 1657784

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.8	8.8
122	10.4	8.8	13.2

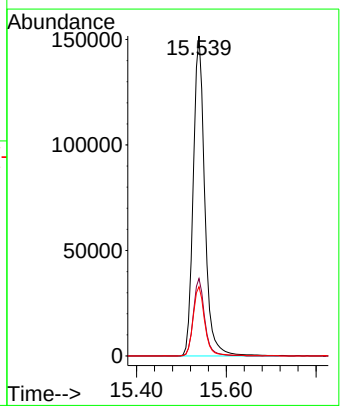




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2286
Delta R.T. -0.018 min
Lab File: BF140502.D
Acq: 20 Nov 2024 16:25

Tgt Ion:264 Resp: 269895

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	21.6	17.1	25.7



Sample Results: **BF140502.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140502.D
Acq On : 20 Nov 2024 16:25
Operator : RC/JU
Sample : PB165086BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165086BL

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-BF111324.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140502.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.234	13	24	33	rVB	36727	68976	1.59%	0.265%
2	5.510	575	581	601	rBV	2436895	3313261	76.37%	12.715%
3	6.510	745	751	772	rBV	2373825	3422684	78.89%	13.135%
4	6.869	807	812	818	rBV	588850	747517	17.23%	2.869%
5	7.434	901	908	913	rBV	1631004	2262765	52.16%	8.684%
6	8.151	1024	1030	1042	rBV	739729	978201	22.55%	3.754%
7	9.228	1206	1213	1239	rBV	3140239	4255047	98.08%	16.329%
8	9.904	1319	1328	1351	rVB	835802	1151952	26.55%	4.421%
9	10.698	1457	1463	1489	rBV	1853447	2633458	60.70%	10.106%
10	11.398	1576	1582	1598	rBV	954304	1240417	28.59%	4.760%
11	12.986	1846	1852	1857	rBV	3254922	4338530	100.00%	16.649%
12	14.045	2026	2032	2048	rVB	683287	933706	21.52%	3.583%
13	15.539	2279	2286	2299	rBV	405830	711575	16.40%	2.731%

Sum of corrected areas: 26058089

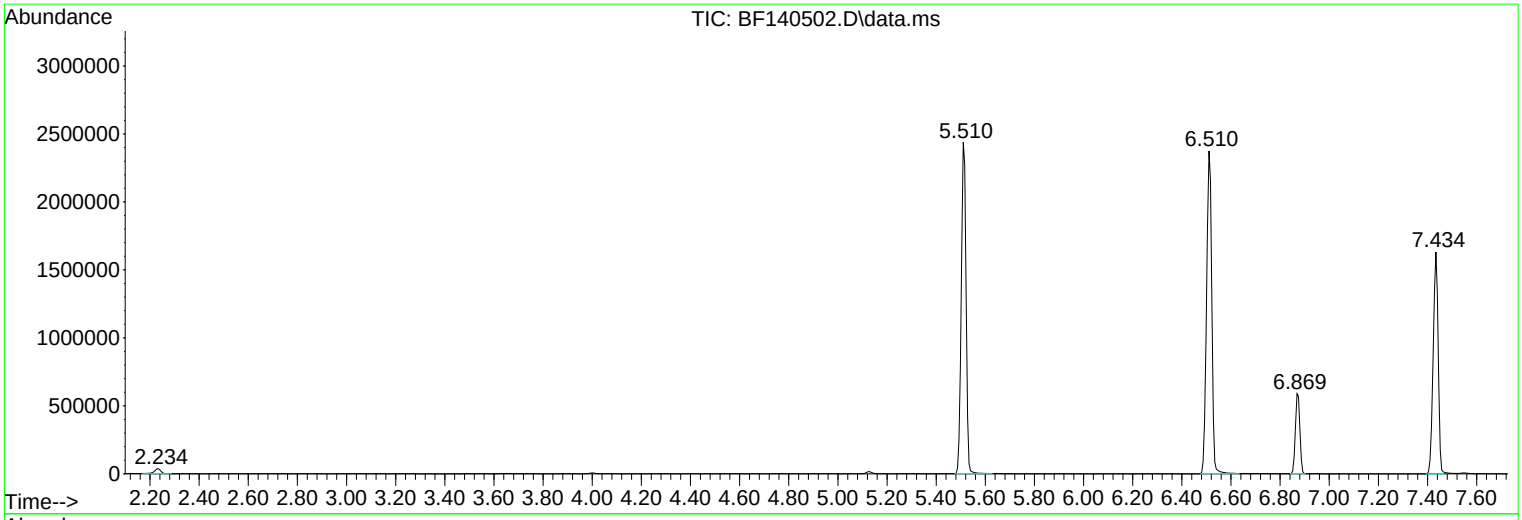
Sample Results: **BF140502.D**

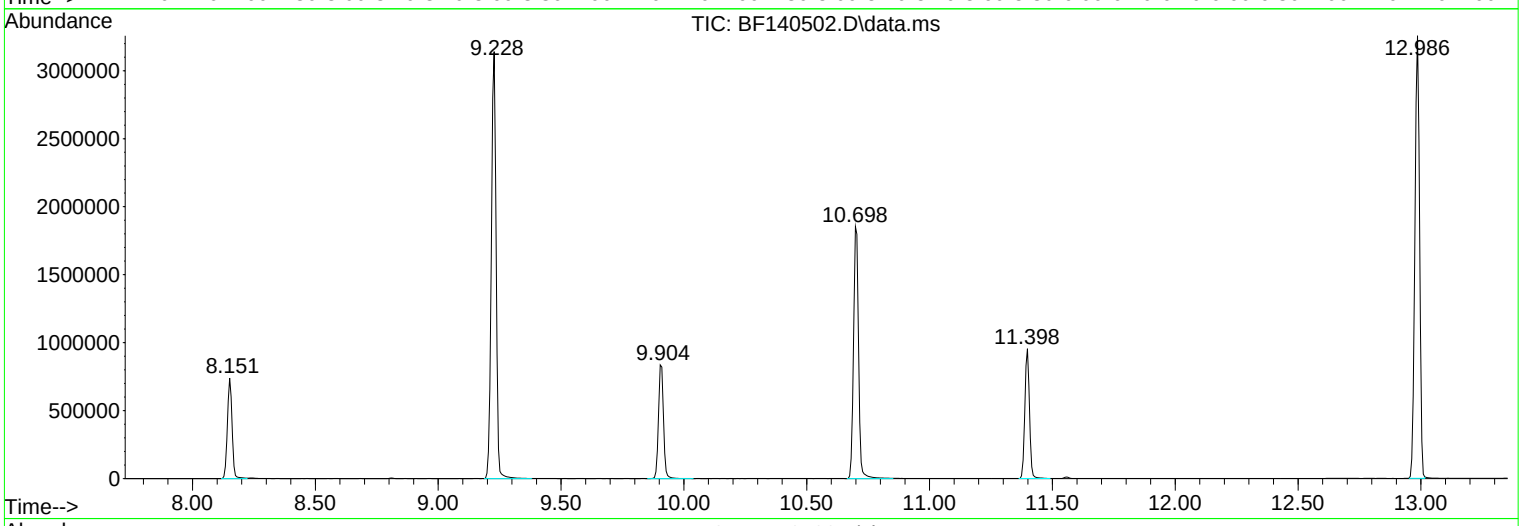
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140502.D
Acq On : 20 Nov 2024 16:25
Operator : RC/JU
Sample : PB165086BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

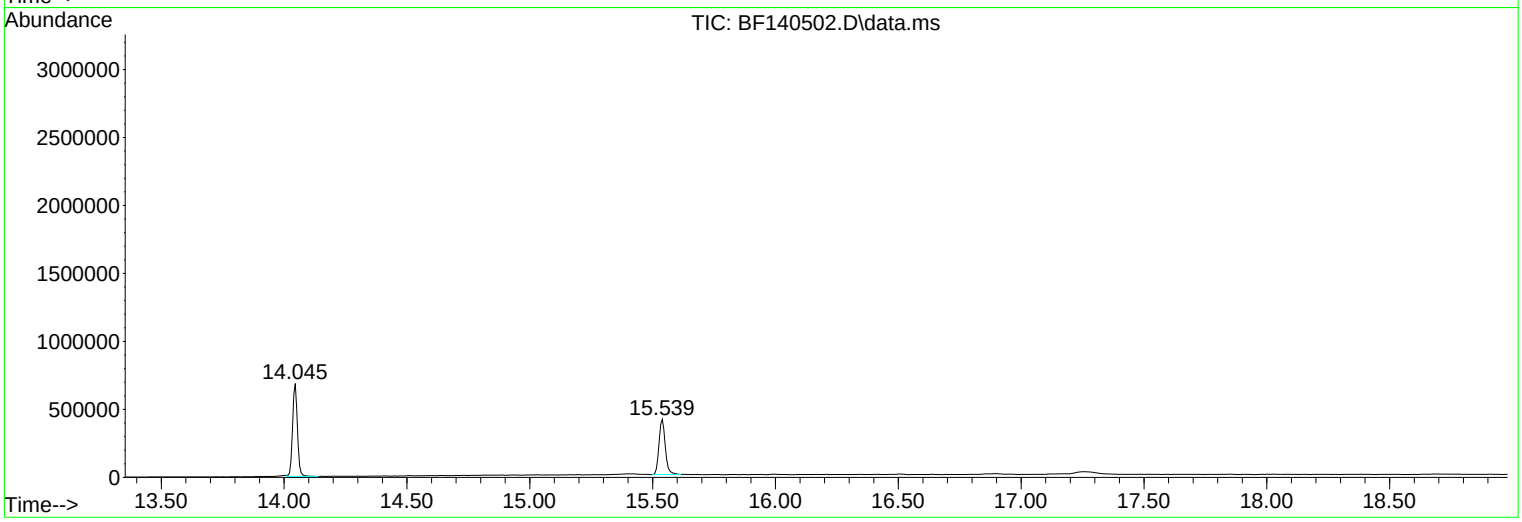
Instrument :
BNA_F
ClientSampleId :
PB165086BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.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: **BF140502.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140502.D
Acq On : 20 Nov 2024 16:25
Operator : RC/JU
Sample : PB165086BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165086BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.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_F\Data\BF112024\
Data File : BF140502.D
Acq On : 20 Nov 2024 16:25
Operator : RC/JU
Sample : PB165086BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165086BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.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_F\Data\BF112524\
Data File : BF140601.D
Acq On : 25 Nov 2024 14:28
Operator : RC/JU
Sample : PB165152BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165152BL

Quant Time: Nov 25 14:56:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

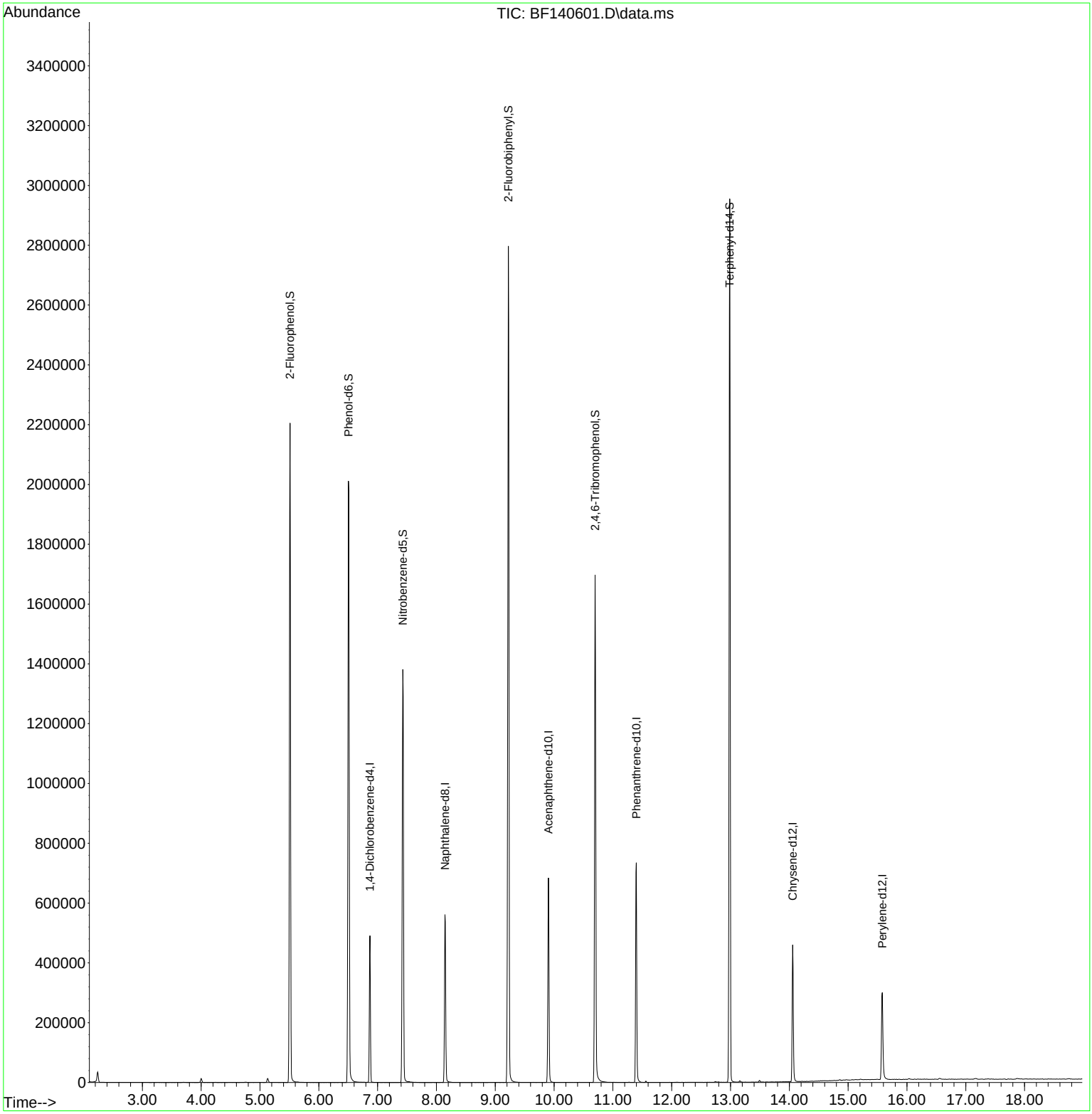
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	105039	20.000	ng	0.00
21) Naphthalene-d8	8.145	136	390263	20.000	ng	-0.01
39) Acenaphthene-d10	9.904	164	219360	20.000	ng	-0.01
64) Phenanthrene-d10	11.398	188	422337	20.000	ng	0.00
76) Chrysene-d12	14.057	240	238471	20.000	ng	0.00
86) Perylene-d12	15.580	264	201118	20.000	ng	0.04
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	839893	136.429	ng	0.01
7) Phenol-d6	6.504	99	1064236	130.762	ng	-0.01
23) Nitrobenzene-d5	7.428	82	703826	92.248	ng	-0.01
42) 2,4,6-Tribromophenol	10.698	330	313171	133.487	ng	0.00
45) 2-Fluorobiphenyl	9.222	172	1378620	93.639	ng	-0.01
79) Terphenyl-d14	12.986	244	1503320	98.161	ng	0.00
Target Compounds						Qvalue

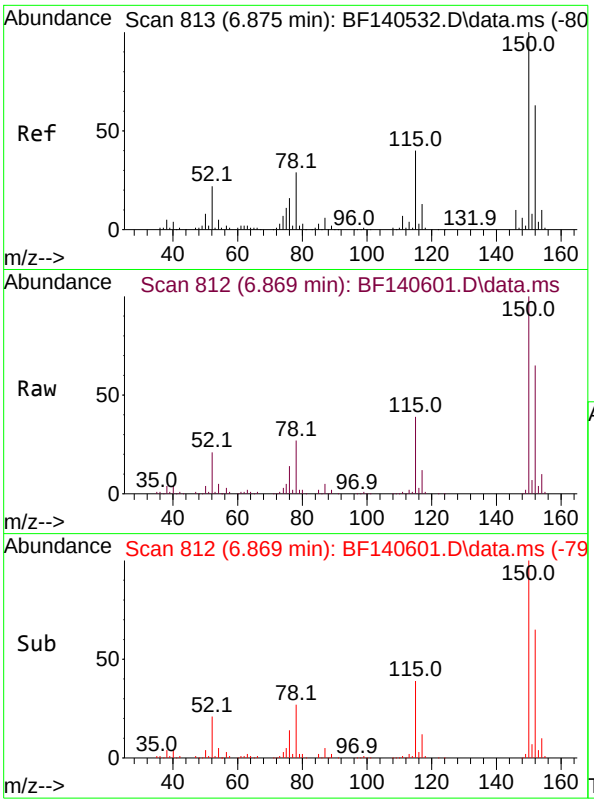
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140601.D
Acq On : 25 Nov 2024 14:28
Operator : RC/JU
Sample : PB165152BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165152BL

Quant Time: Nov 25 14:56:23 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration



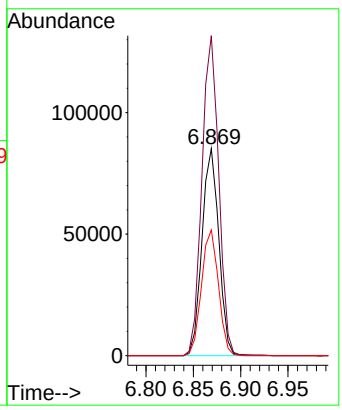


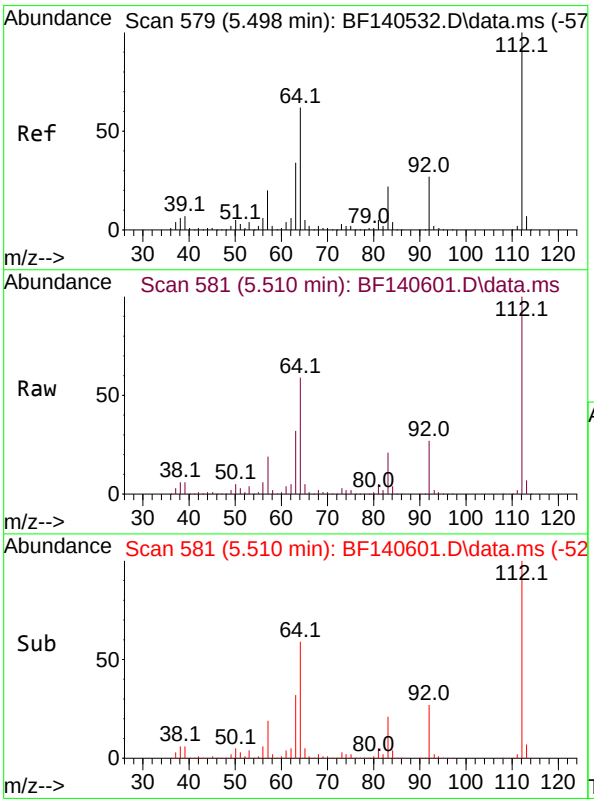
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.869 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Instrument :
BNA_F
ClientSampleId :
PB165152BL

Tgt Ion:152 Resp: 105039

Ion	Ratio	Lower	Upper
152	100		
150	154.5	128.5	192.7
115	60.7	50.2	75.4

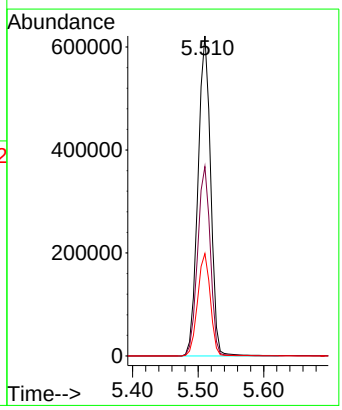


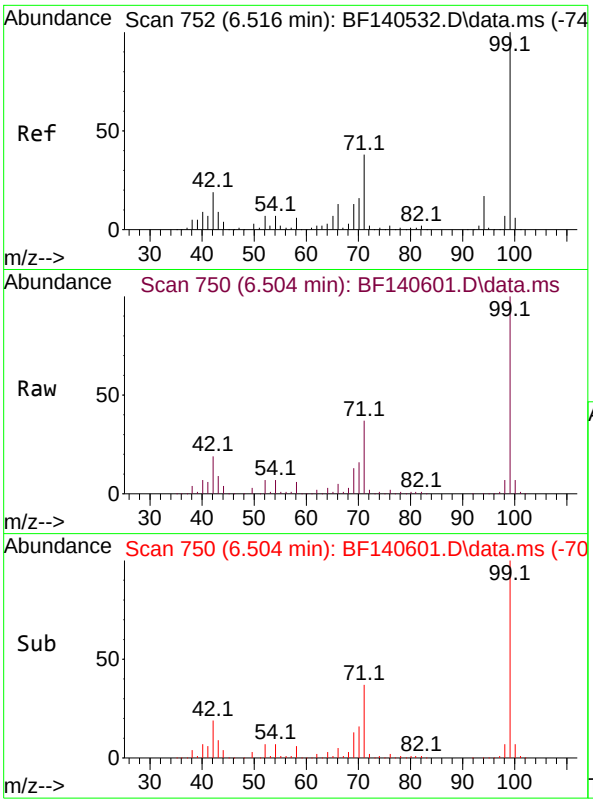


#5
2-Fluorophenol
Concen: 136.429 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.012 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Tgt Ion:112 Resp: 839893

Ion	Ratio	Lower	Upper
112	100		
64	59.2	49.2	73.8
63	32.0	27.0	40.4



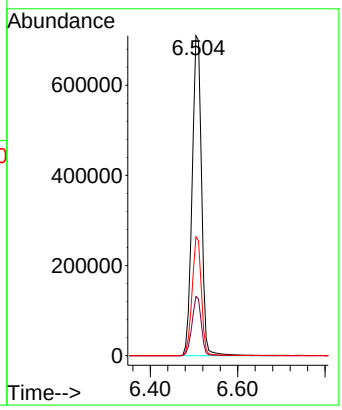


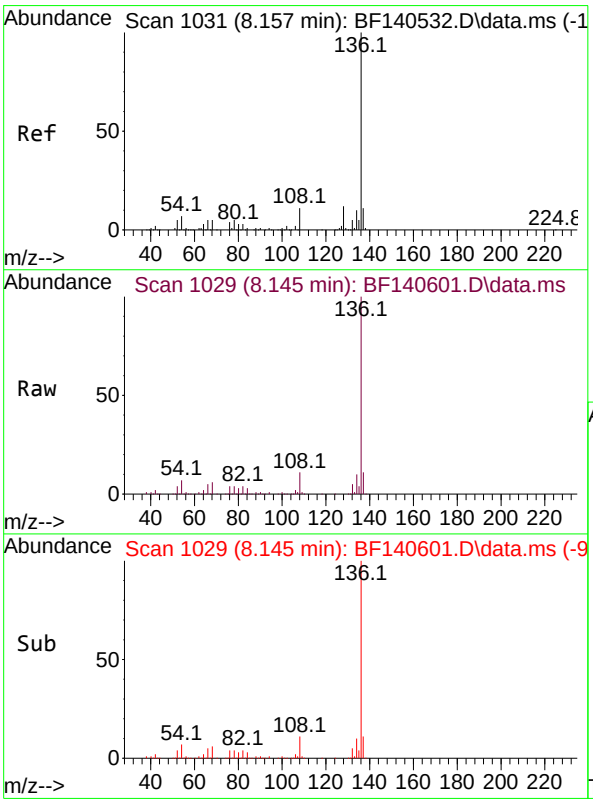
#7
Phenol-d6
Concen: 130.762 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Instrument :
BNA_F
ClientSampleId :
PB165152BL

Tgt Ion: 99 Resp: 1064236

Ion	Ratio	Lower	Upper
99	100		
42	18.5	15.4	23.0
71	37.1	30.6	46.0

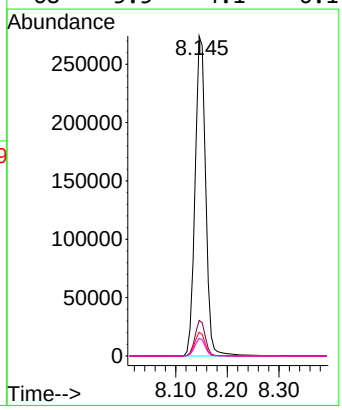


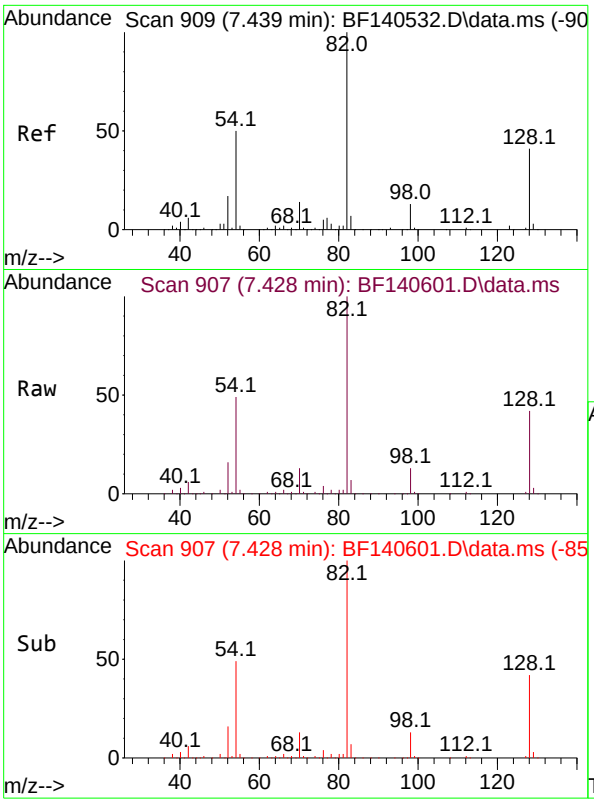


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.145 min Scan# 1029
Delta R.T. -0.012 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Tgt Ion:136 Resp: 390263

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.6	13.0
54	7.4	5.8	8.8
68	5.5	4.1	6.1



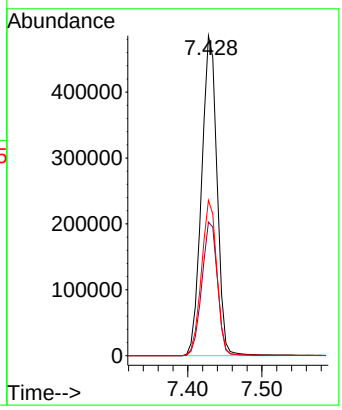


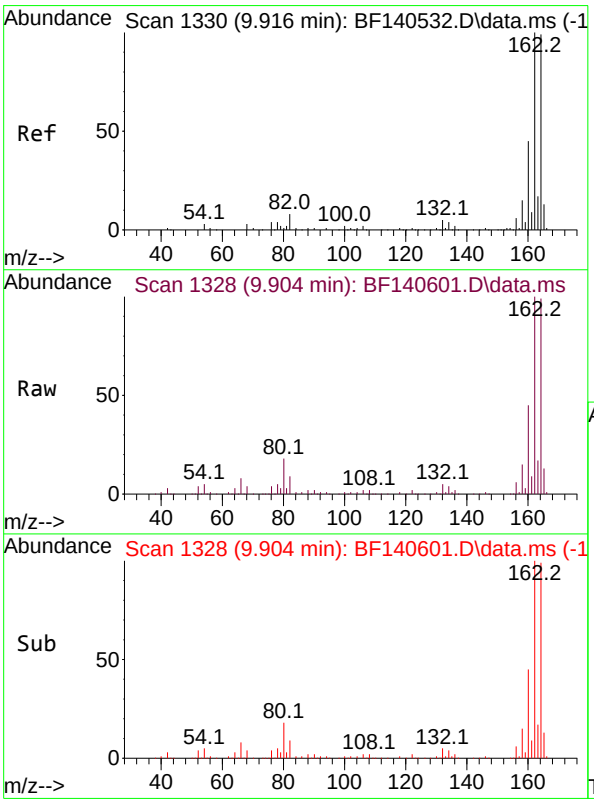
#23
Nitrobenzene-d5
Concen: 92.248 ng
RT: 7.428 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Instrument :
BNA_F
ClientSampleId :
PB165152BL

Tgt Ion: 82 Resp: 703826

Ion	Ratio	Lower	Upper
82	100		
128	41.8	33.0	49.4
54	48.5	39.5	59.3

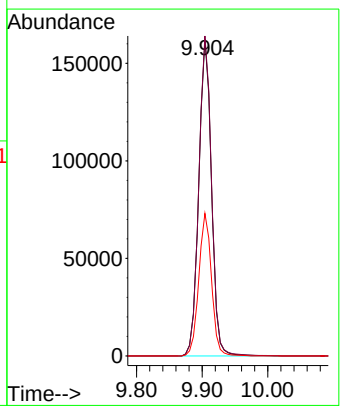


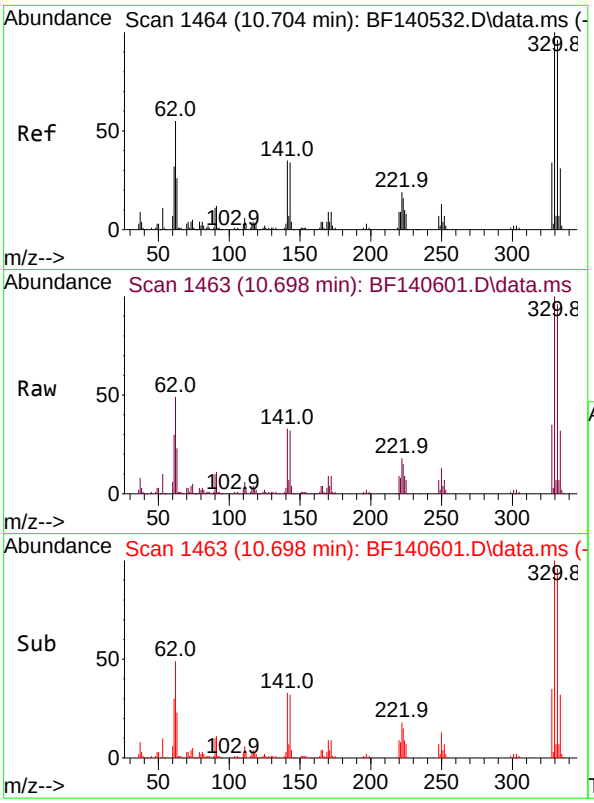


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.904 min Scan# 1328
Delta R.T. -0.012 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Tgt Ion:164 Resp: 219360

Ion	Ratio	Lower	Upper
164	100		
162	101.1	80.6	120.8
160	45.1	36.2	54.4



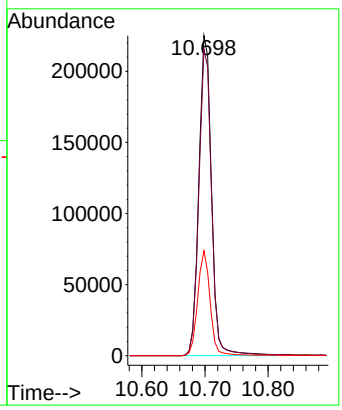


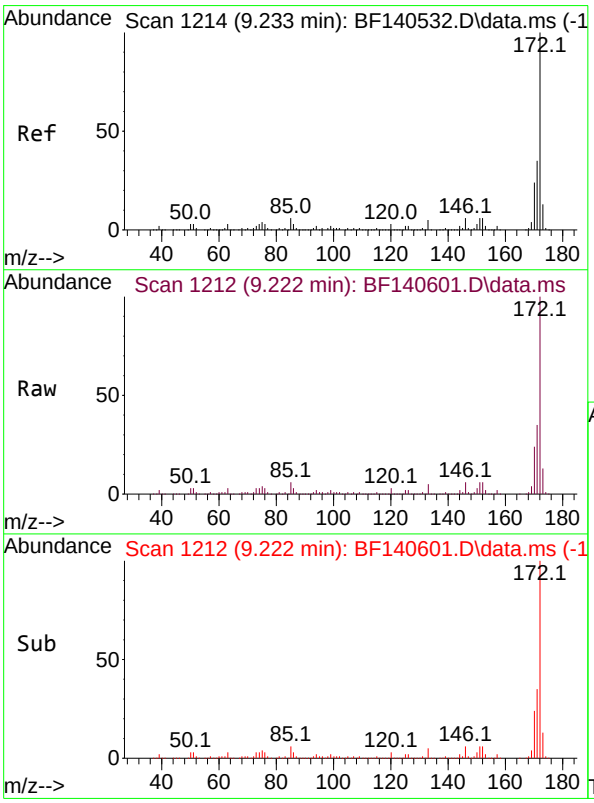
#42
2,4,6-Tribromophenol
Concen: 133.487 ng
RT: 10.698 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Instrument :
BNA_F
ClientSampleId :
PB165152BL

Tgt Ion:330 Resp: 313171

Ion	Ratio	Lower	Upper
330	100		
332	96.4	76.9	115.3
141	32.4	26.7	40.1

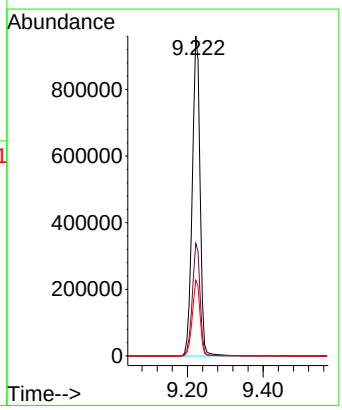


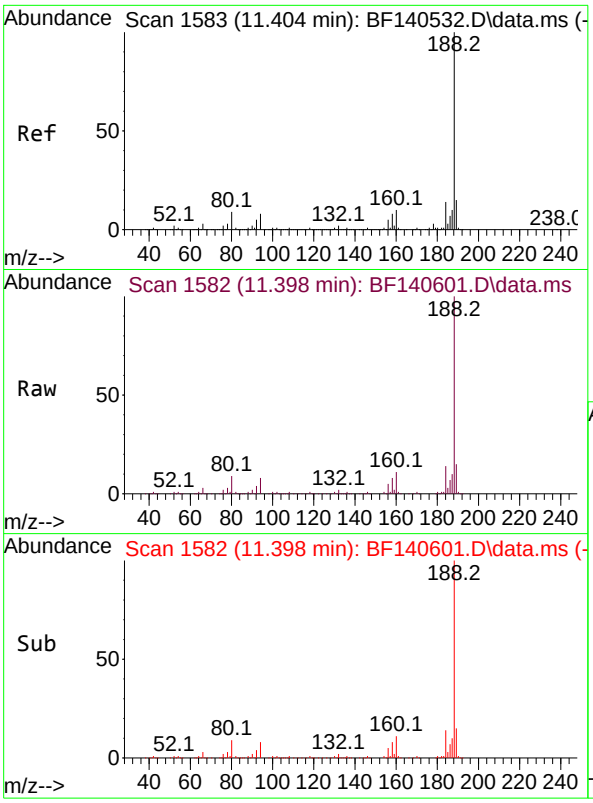


#45
2-Fluorobiphenyl
Concen: 93.639 ng
RT: 9.222 min Scan# 1212
Delta R.T. -0.012 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Tgt Ion:172 Resp: 1378620

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.4	42.6
170	23.7	19.0	28.6



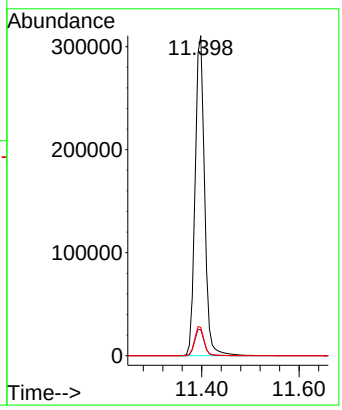


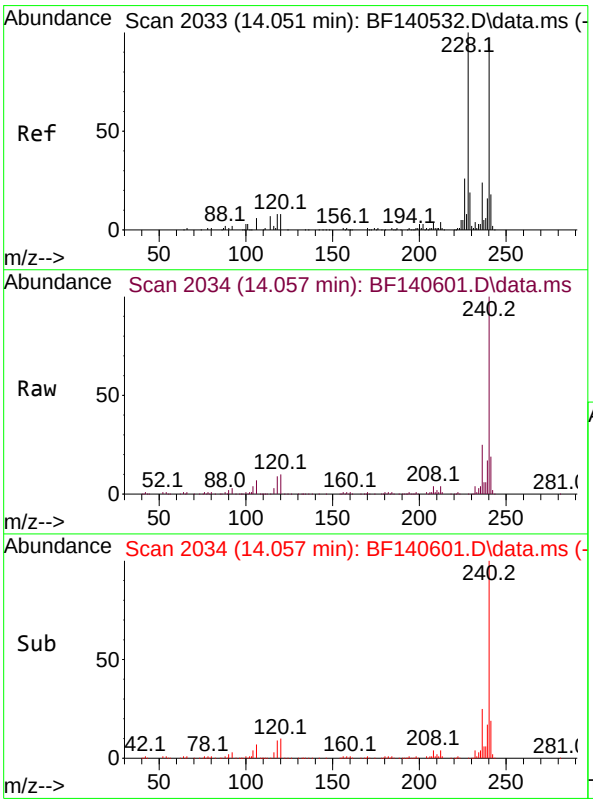
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.398 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Instrument :
BNA_F
ClientSampleId :
PB165152BL

Tgt Ion:188 Resp: 422337

Ion	Ratio	Lower	Upper
188	100		
94	8.2	6.4	9.6
80	8.9	6.9	10.3

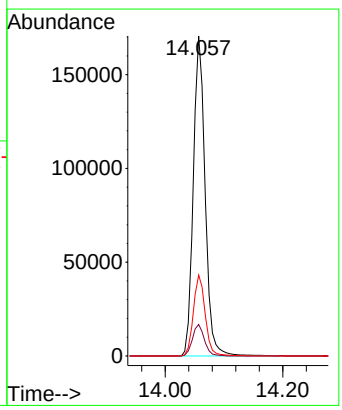


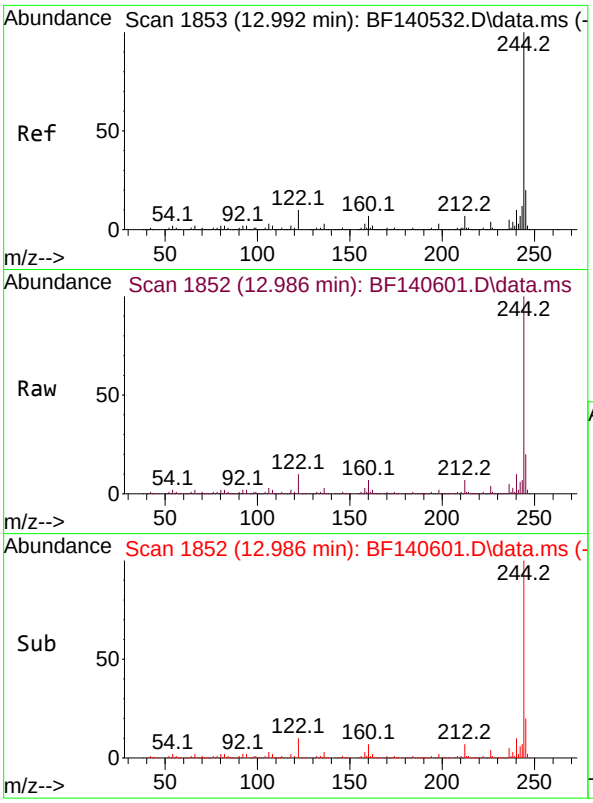


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2034
Delta R.T. 0.006 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Tgt Ion:240 Resp: 238471

Ion	Ratio	Lower	Upper
240	100		
120	9.9	7.3	10.9
236	25.3	20.6	31.0



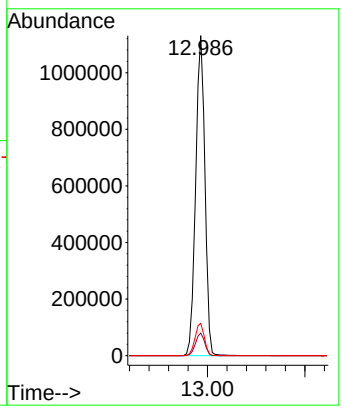


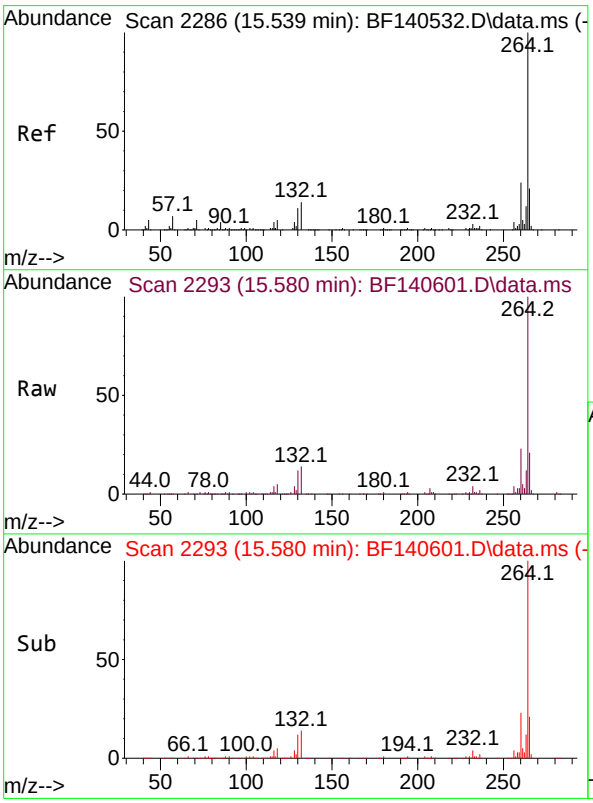
#79
Terphenyl-d14
Concen: 98.161 ng
RT: 12.986 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Instrument :
BNA_F
ClientSampleId :
PB165152BL

Tgt Ion:244 Resp: 1503320

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.8	8.8
122	10.1	8.0	12.0

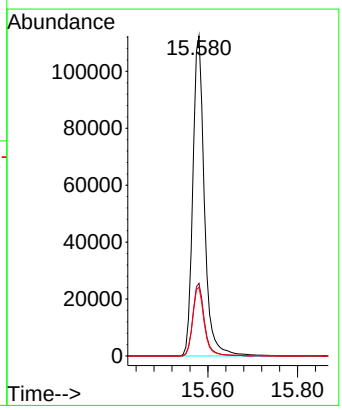




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.580 min Scan# 2293
Delta R.T. 0.041 min
Lab File: BF140601.D
Acq: 25 Nov 2024 14:28

Tgt Ion:264 Resp: 201118

Ion	Ratio	Lower	Upper
264	100		
260	22.7	19.0	28.6
265	21.5	16.6	25.0



Sample Results: **BF140601.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140601.D
Acq On : 25 Nov 2024 14:28
Operator : RC/JU
Sample : PB165152BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165152BL

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-BF112124.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140601.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.240	11	25	32	rVB	34244	63804	1.61%	0.281%
2	5.510	575	581	586	rBV	2204989	2961294	74.74%	13.054%
3	6.504	744	750	770	rBV	2011018	3003080	75.80%	13.238%
4	6.869	807	812	817	rBV	490276	604561	15.26%	2.665%
5	7.428	901	907	924	rBV	1381583	2003501	50.57%	8.832%
6	8.145	1023	1029	1042	rBV	561255	784132	19.79%	3.457%
7	9.222	1205	1212	1243	rBV	2797087	3961932	100.00%	17.465%
8	9.904	1321	1328	1348	rVB	684222	919029	23.20%	4.051%
9	10.698	1457	1463	1488	rBV	1696800	2327294	58.74%	10.259%
10	11.398	1576	1582	1605	rVB	734623	989235	24.97%	4.361%
11	12.986	1846	1852	1857	rBV	2953701	3917606	98.88%	17.270%
12	14.057	2029	2034	2049	rBV	457806	634355	16.01%	2.796%
13	15.580	2286	2293	2313	rBV	290609	514817	12.99%	2.269%

Sum of corrected areas: 22684640

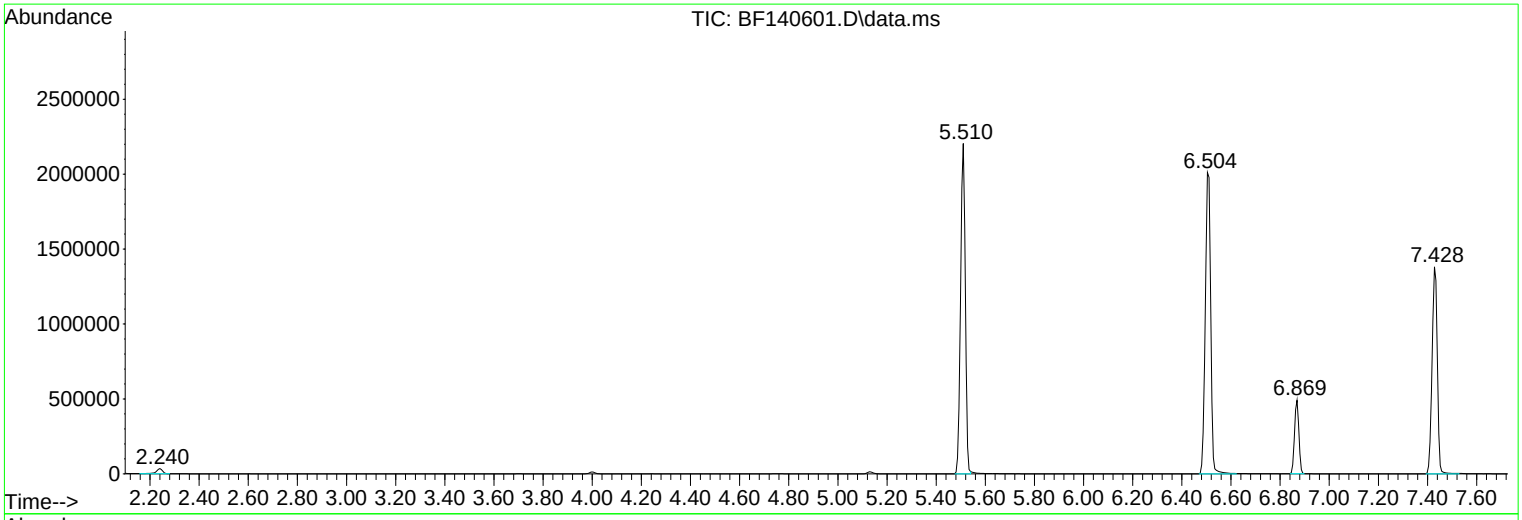
Sample Results: **BF140601.D**

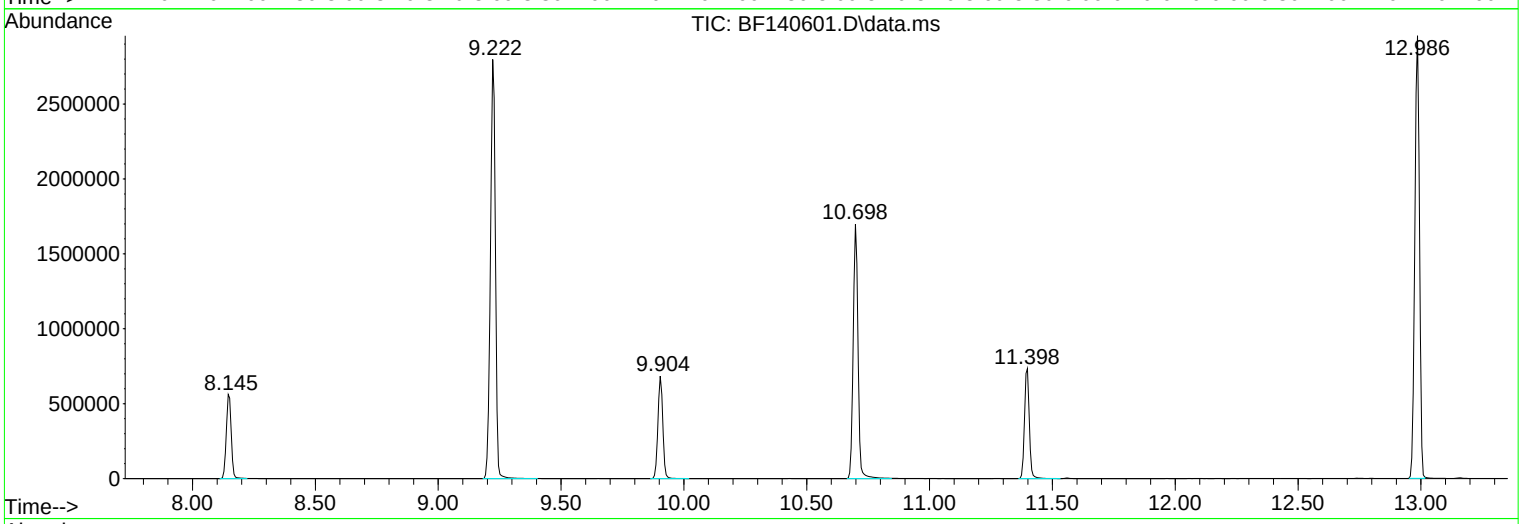
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140601.D
Acq On : 25 Nov 2024 14:28
Operator : RC/JU
Sample : PB165152BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

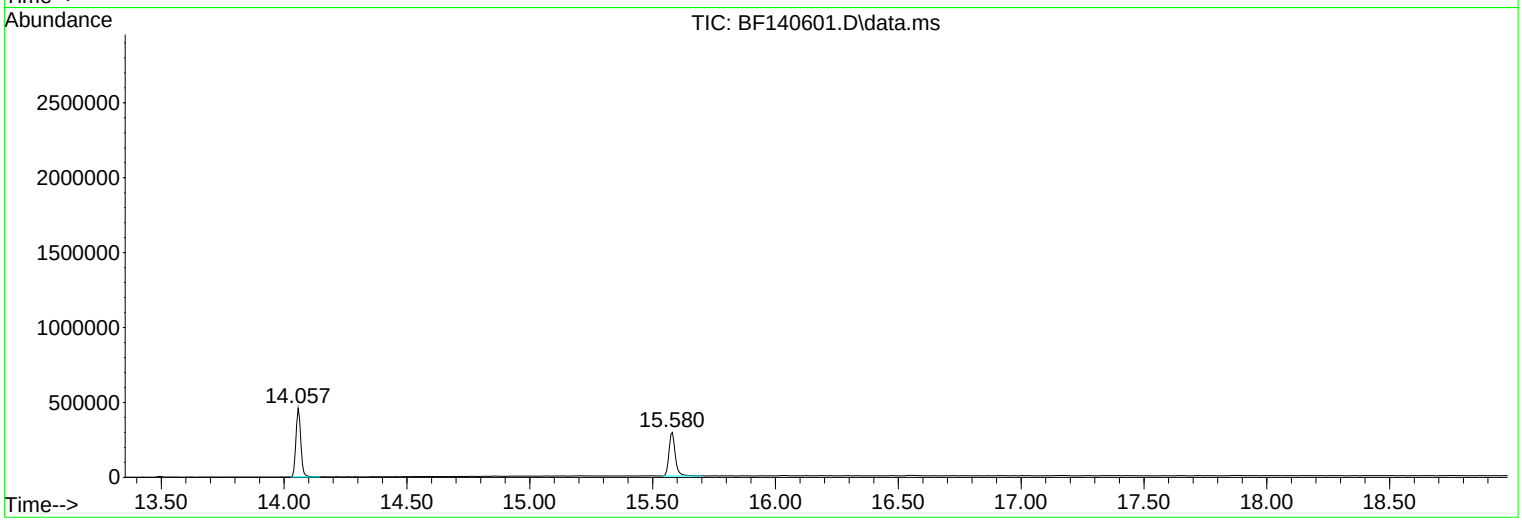
Instrument :
BNA_F
ClientSampleId :
PB165152BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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\BF112524\
Data File : BF140601.D
Acq On : 25 Nov 2024 14:28
Operator : RC/JU
Sample : PB165152BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165152BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

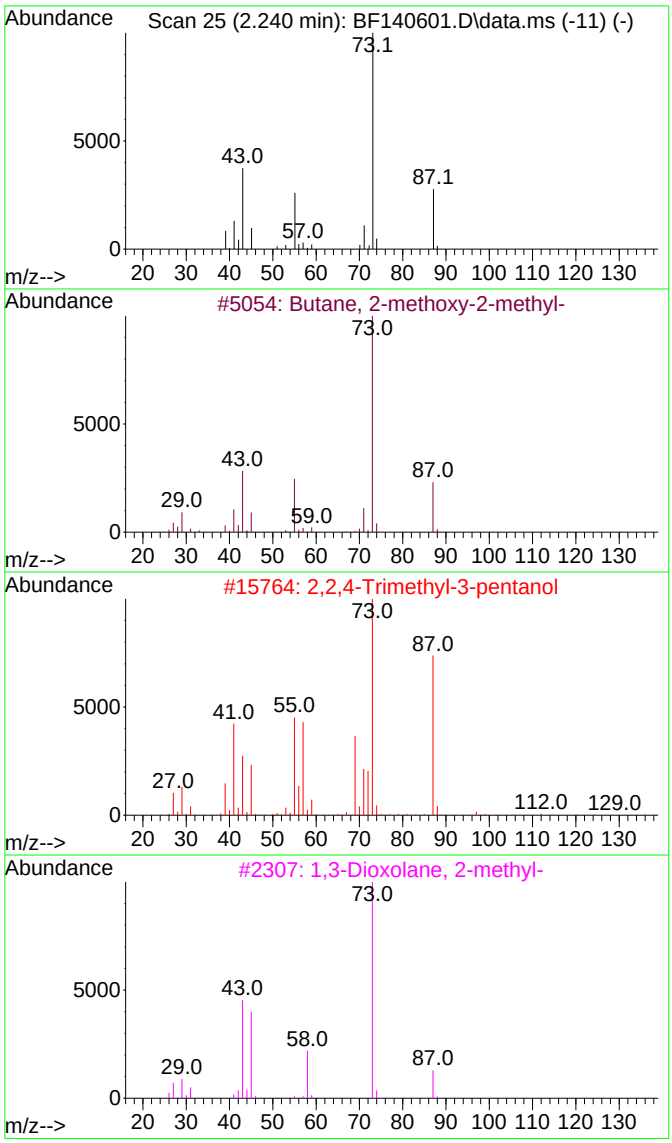
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

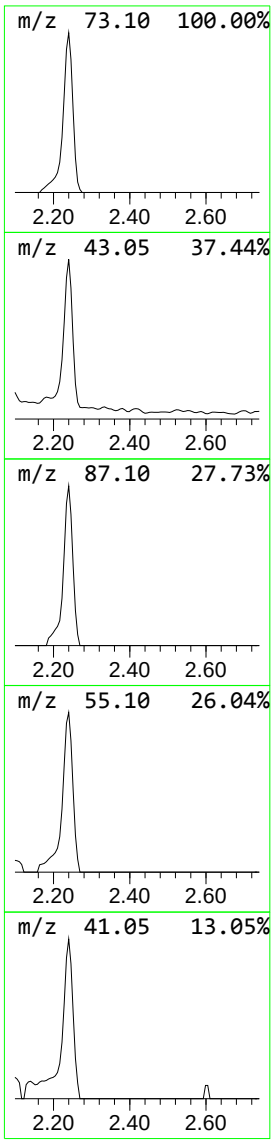
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.240	2.11 ng	63804	1,4-Dichlorobenzene-d4	6.869

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	40
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
5	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	10





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140601.D
Acq On : 25 Nov 2024 14:28
Operator : RC/JU
Sample : PB165152BL
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB165152BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.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...	2.240	2.1	ng	63804	1	6.869	604561	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140594.D
Acq On : 25 Nov 2024 11:17
Operator : RC/JU
Sample : PB165086BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 25 12:10:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB165086BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.869	152	95461	20.000	ng		0.00
21) Naphthalene-d8	8.151	136	360433	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	204239	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	384268	20.000	ng		0.00
76) Chrysene-d12	14.051	240	226332	20.000	ng		0.00
86) Perylene-d12	15.551	264	183684	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	786656	140.602	ng		0.02
7) Phenol-d6	6.516	99	1028062	138.991	ng		0.00
23) Nitrobenzene-d5	7.434	82	675051	95.799	ng		0.00
42) 2,4,6-Tribromophenol	10.704	330	312581	143.100	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	1279048	93.308	ng		0.00
79) Terphenyl-d14	12.986	244	1402340	96.479	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.758	88	106907	45.447	ng		97
3) Pyridine	3.516	79	270543	52.271	ng		100
4) n-Nitrosodimethylamine	3.469	42	148775	48.908	ng		93
6) Aniline	6.534	93	264036	50.716	ng	#	78
8) 2-Chlorophenol	6.663	128	315221	52.369	ng		96
9) Benzaldehyde	6.422	77	24983	6.380	ng		98
10) Phenol	6.528	94	387598	51.312	ng		99
11) bis(2-Chloroethyl)ether	6.604	93	295208	51.071	ng		99
12) 1,3-Dichlorobenzene	6.810	146	325129	48.071	ng		99
13) 1,4-Dichlorobenzene	6.887	146	325939	47.594	ng		100
14) 1,2-Dichlorobenzene	7.040	146	313851	48.908	ng		100
15) Benzyl Alcohol	7.016	79	288141	52.530	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.140	45	360776	52.831	ng		89
17) 2-Methylphenol	7.128	107	249475	51.776	ng		98
18) Hexachloroethane	7.381	117	121736	47.595	ng		100
19) n-Nitroso-di-n-propyla...	7.281	70	221858	50.752	ng		99
20) 3+4-Methylphenols	7.281	107	318248	51.386	ng		98
22) Acetophenone	7.281	105	429201	48.844	ng		99
24) Nitrobenzene	7.451	77	342592	47.041	ng		99
25) Isophorone	7.692	82	612974	52.154	ng		99
26) 2-Nitrophenol	7.769	139	168892	52.330	ng		97
27) 2,4-Dimethylphenol	7.810	122	254935	66.019	ng		98
28) bis(2-Chloroethoxy)met...	7.898	93	364440	50.899	ng		100
29) 2,4-Dichlorophenol	8.016	162	262636	51.328	ng		98
30) 1,2,4-Trichlorobenzene	8.092	180	275345	47.130	ng		99
31) Naphthalene	8.175	128	905626	48.780	ng		100
32) Benzoic acid	7.940	122	154953	46.395	ng		97
33) 4-Chloroaniline	8.222	127	139898	25.168	ng		97
34) Hexachlorobutadiene	8.287	225	180530	46.653	ng		98
35) Caprolactam	8.598	113	78235m	49.406	ng		
36) 4-Chloro-3-methylphenol	8.716	107	286716	50.047	ng		100
37) 2-Methylnaphthalene	8.863	142	593210	50.306	ng		99
38) 1-Methylnaphthalene	8.963	142	556200	48.120	ng		99
40) 1,2,4,5-Tetrachloroben...	9.034	216	289964	48.496	ng		98
41) Hexachlorocyclopentadiene	9.016	237	263786	185.676	ng		98
43) 2,4,6-Trichlorophenol	9.145	196	185930	49.557	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140594.D
Acq On : 25 Nov 2024 11:17
Operator : RC/JU
Sample : PB165086BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 25 12:10:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB165086BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	193087	47.421	ng	96
46) 1,1'-Biphenyl	9.328	154	739237	48.479	ng	100
47) 2-Chloronaphthalene	9.357	162	550668	47.659	ng	99
48) 2-Nitroaniline	9.457	65	181803	49.021	ng	96
49) Acenaphthylene	9.775	152	914236	52.369	ng	100
50) Dimethylphthalate	9.628	163	667700	49.639	ng	100
51) 2,6-Dinitrotoluene	9.698	165	143481	47.033	ng	94
52) Acenaphthene	9.945	154	557453	50.255	ng	98
53) 3-Nitroaniline	9.869	138	98515	33.018	ng	95
54) 2,4-Dinitrophenol	9.981	184	137274	86.212	ng	96
55) Dibenzofuran	10.116	168	834818	49.340	ng	99
56) 4-Nitrophenol	10.045	139	199246	97.917	ng	94
57) 2,4-Dinitrotoluene	10.104	165	201607	49.726	ng	98
58) Fluorene	10.463	166	672115	49.490	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	170505	54.486	ng	95
60) Diethylphthalate	10.328	149	678334	49.635	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	332587	49.901	ng	96
62) 4-Nitroaniline	10.486	138	150568	48.116	ng	97
63) Azobenzene	10.610	77	644651	49.810	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	103971	52.948	ng	95
66) n-Nitrosodiphenylamine	10.569	169	572661	50.393	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	194886	49.246	ng	99
68) Hexachlorobenzene	11.010	284	224667	49.030	ng	100
69) Atrazine	11.098	200	184571	57.735	ng	99
70) Pentachlorophenol	11.210	266	204321	101.312	ng	99
71) Phenanthrene	11.428	178	935511	50.647	ng	99
72) Anthracene	11.475	178	955770	52.897	ng	100
73) Carbazole	11.633	167	869481	50.022	ng	100
74) Di-n-butylphthalate	11.951	149	1016934	50.676	ng	100
75) Fluoranthene	12.616	202	1008535	50.288	ng	99
77) Benzidine	12.733	184	235993	35.863	ng	99
78) Pyrene	12.845	202	1028303	49.137	ng	100
80) Butylbenzylphthalate	13.457	149	395492	52.461	ng	100
81) Benzo(a)anthracene	14.039	228	756335	50.482	ng	100
82) 3,3'-Dichlorobenzidine	13.998	252	150175	33.385	ng	99
83) Chrysene	14.080	228	708791	51.738	ng	99
84) Bis(2-ethylhexyl)phtha...	14.016	149	513313	53.923	ng	100
85) Di-n-octyl phthalate	14.651	149	724749	55.710	ng	98
87) Indeno(1,2,3-cd)pyrene	17.068	276	607172	50.722	ng	98
88) Benzo(b)fluoranthene	15.116	252	600609	52.057	ng	99
89) Benzo(k)fluoranthene	15.145	252	520314	51.535	ng	99
90) Benzo(a)pyrene	15.492	252	515240	54.925	ng	99
91) Dibenzo(a,h)anthracene	17.074	278	494149	50.406	ng	99
92) Benzo(g,h,i)perylene	17.515	276	449443	44.927	ng	98

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

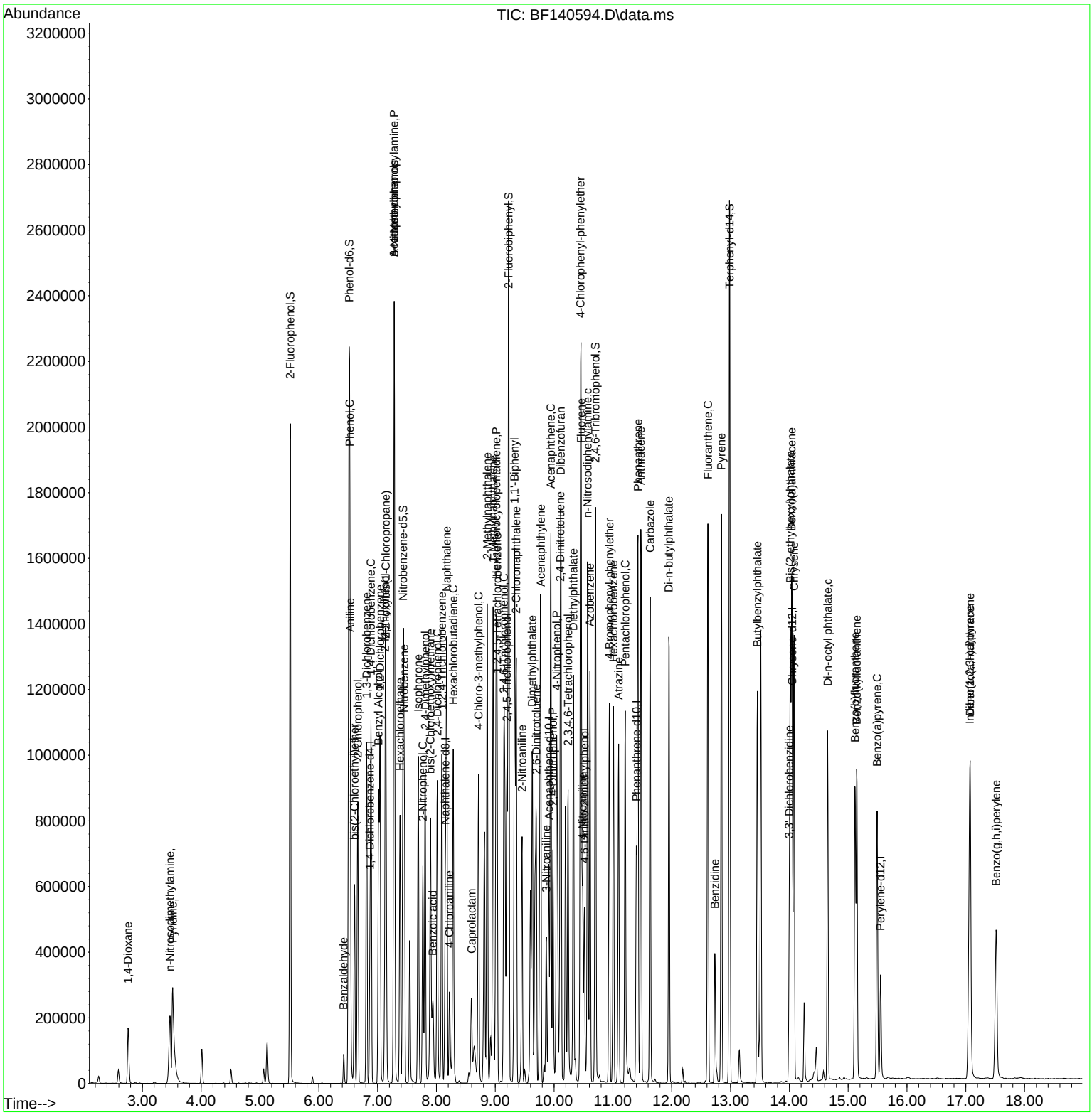
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140594.D
Acq On : 25 Nov 2024 11:17
Operator : RC/JU
Sample : PB165086BS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Nov 25 12:10:20 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB165086BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140598.D
Acq On : 25 Nov 2024 13:02
Operator : RC/JU
Sample : PB165152BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 25 13:42:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB165152BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.869	152	99301	20.000	ng		0.00
21) Naphthalene-d8	8.151	136	382645	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	214473	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	401581	20.000	ng		0.00
76) Chrysene-d12	14.051	240	233962	20.000	ng		0.00
86) Perylene-d12	15.557	264	195258	20.000	ng		0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	846159	145.389	ng		0.02
7) Phenol-d6	6.516	99	1097124	142.592	ng		0.00
23) Nitrobenzene-d5	7.434	82	721964	96.509	ng		0.00
42) 2,4,6-Tribromophenol	10.704	330	341909	149.058	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	1385588	96.257	ng		0.00
79) Terphenyl-d14	12.986	244	1517791	101.016	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.757	88	113338	46.317	ng		99
3) Pyridine	3.516	79	284772	52.893	ng		100
4) n-Nitrosodimethylamine	3.469	42	159233	50.321	ng		94
6) Aniline	6.534	93	296838	54.812	ng	#	76
8) 2-Chlorophenol	6.663	128	331219	52.898	ng		96
9) Benzaldehyde	6.422	77	157871	38.759	ng		99
10) Phenol	6.528	94	410774	52.277	ng		99
11) bis(2-Chloroethyl)ether	6.604	93	312507	51.973	ng		99
12) 1,3-Dichlorobenzene	6.810	146	349953	49.740	ng		99
13) 1,4-Dichlorobenzene	6.887	146	356626	50.061	ng		99
14) 1,2-Dichlorobenzene	7.039	146	335974	50.331	ng		99
15) Benzyl Alcohol	7.016	79	306875	53.782	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.139	45	384656	54.150	ng		87
17) 2-Methylphenol	7.134	107	260567	51.987	ng		97
18) Hexachloroethane	7.381	117	132570	49.826	ng		98
19) n-Nitroso-di-n-propyla...	7.287	70	236264	51.958	ng		97
20) 3+4-Methylphenols	7.281	107	335470	52.072	ng		96
22) Acetophenone	7.281	105	449242	48.157	ng		99
24) Nitrobenzene	7.457	77	360886	46.677	ng		98
25) Isophorone	7.692	82	640025	51.295	ng		100
26) 2-Nitrophenol	7.769	139	178581	52.120	ng		98
27) 2,4-Dimethylphenol	7.810	122	265144	64.677	ng		98
28) bis(2-Chloroethoxy)met...	7.898	93	387181	50.936	ng		100
29) 2,4-Dichlorophenol	8.016	162	279062	51.372	ng		98
30) 1,2,4-Trichlorobenzene	8.092	180	294239	47.440	ng		99
31) Naphthalene	8.175	128	961872	48.802	ng		100
32) Benzoic acid	7.945	122	166417	46.851	ng		99
33) 4-Chloroaniline	8.222	127	131641	22.308	ng		98
34) Hexachlorobutadiene	8.286	225	197852	48.161	ng		99
35) Caprolactam	8.598	113	86604m	51.517	ng		
36) 4-Chloro-3-methylphenol	8.716	107	311756	51.259	ng		99
37) 2-Methylnaphthalene	8.863	142	636017	50.805	ng		100
38) 1-Methylnaphthalene	8.963	142	593614	48.376	ng		99
40) 1,2,4,5-Tetrachloroben...	9.033	216	307592	48.990	ng		99
41) Hexachlorocyclopentadiene	9.016	237	289488	193.715	ng		98
43) 2,4,6-Trichlorophenol	9.145	196	200728	50.949	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140598.D
Acq On : 25 Nov 2024 13:02
Operator : RC/JU
Sample : PB165152BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 25 13:42:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB165152BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	213723	49.984	ng	98
46) 1,1'-Biphenyl	9.328	154	791809	49.449	ng	100
47) 2-Chloronaphthalene	9.357	162	592185	48.807	ng	99
48) 2-Nitroaniline	9.457	65	199018	51.102	ng	98
49) Acenaphthylene	9.775	152	977979	53.347	ng	100
50) Dimethylphthalate	9.633	163	724262	51.275	ng	100
51) 2,6-Dinitrotoluene	9.698	165	158048	49.336	ng	94
52) Acenaphthene	9.945	154	596240	51.187	ng	99
53) 3-Nitroaniline	9.869	138	100618	32.114	ng	94
54) 2,4-Dinitrophenol	9.980	184	152527	90.766	ng	96
55) Dibenzofuran	10.116	168	893805	50.306	ng	99
56) 4-Nitrophenol	10.045	139	213899	100.102	ng	96
57) 2,4-Dinitrotoluene	10.104	165	211757	49.737	ng	98
58) Fluorene	10.463	166	706702	49.554	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	183707	55.904	ng	95
60) Diethylphthalate	10.327	149	729880	50.858	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	346192	49.464	ng	97
62) 4-Nitroaniline	10.486	138	162008	49.301	ng	97
63) Azobenzene	10.610	77	687690	50.600	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	114647	55.868	ng	98
66) n-Nitrosodiphenylamine	10.569	169	605842	51.015	ng	100
67) 4-Bromophenyl-phenylether	10.939	248	209859	50.744	ng	97
68) Hexachlorobenzene	11.010	284	242139	50.565	ng	100
69) Atrazine	11.098	200	204968	61.351	ng	100
70) Pentachlorophenol	11.210	266	217924	103.398	ng	99
71) Phenanthrene	11.427	178	997351	51.667	ng	100
72) Anthracene	11.480	178	1020413	54.040	ng	100
73) Carbazole	11.633	167	919335	50.610	ng	100
74) Di-n-butylphthalate	11.957	149	1080749	51.534	ng	100
75) Fluoranthene	12.616	202	1065582	50.842	ng	99
77) Benzidine	12.733	184	303000	44.544	ng	99
78) Pyrene	12.845	202	1095938	50.661	ng	100
80) Butylbenzylphthalate	13.457	149	420209	53.922	ng	98
81) Benzo(a)anthracene	14.039	228	830546	53.627	ng	100
82) 3,3'-Dichlorobenzidine	14.004	252	154079	33.136	ng	100
83) Chrysene	14.080	228	735574	51.942	ng	100
84) Bis(2-ethylhexyl)phtha...	14.015	149	539818	54.858	ng	99
85) Di-n-octyl phthalate	14.651	149	772524	57.445	ng	98
87) Indeno(1,2,3-cd)pyrene	17.068	276	647722	50.903	ng	98
88) Benzo(b)fluoranthene	15.121	252	621111	50.643	ng	99
89) Benzo(k)fluoranthene	15.151	252	583206	54.340	ng	99
90) Benzo(a)pyrene	15.492	252	561220	56.280	ng	99
91) Dibenzo(a,h)anthracene	17.080	278	529761	50.835	ng	98
92) Benzo(g,h,i)perylene	17.527	276	490635	46.138	ng	99

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

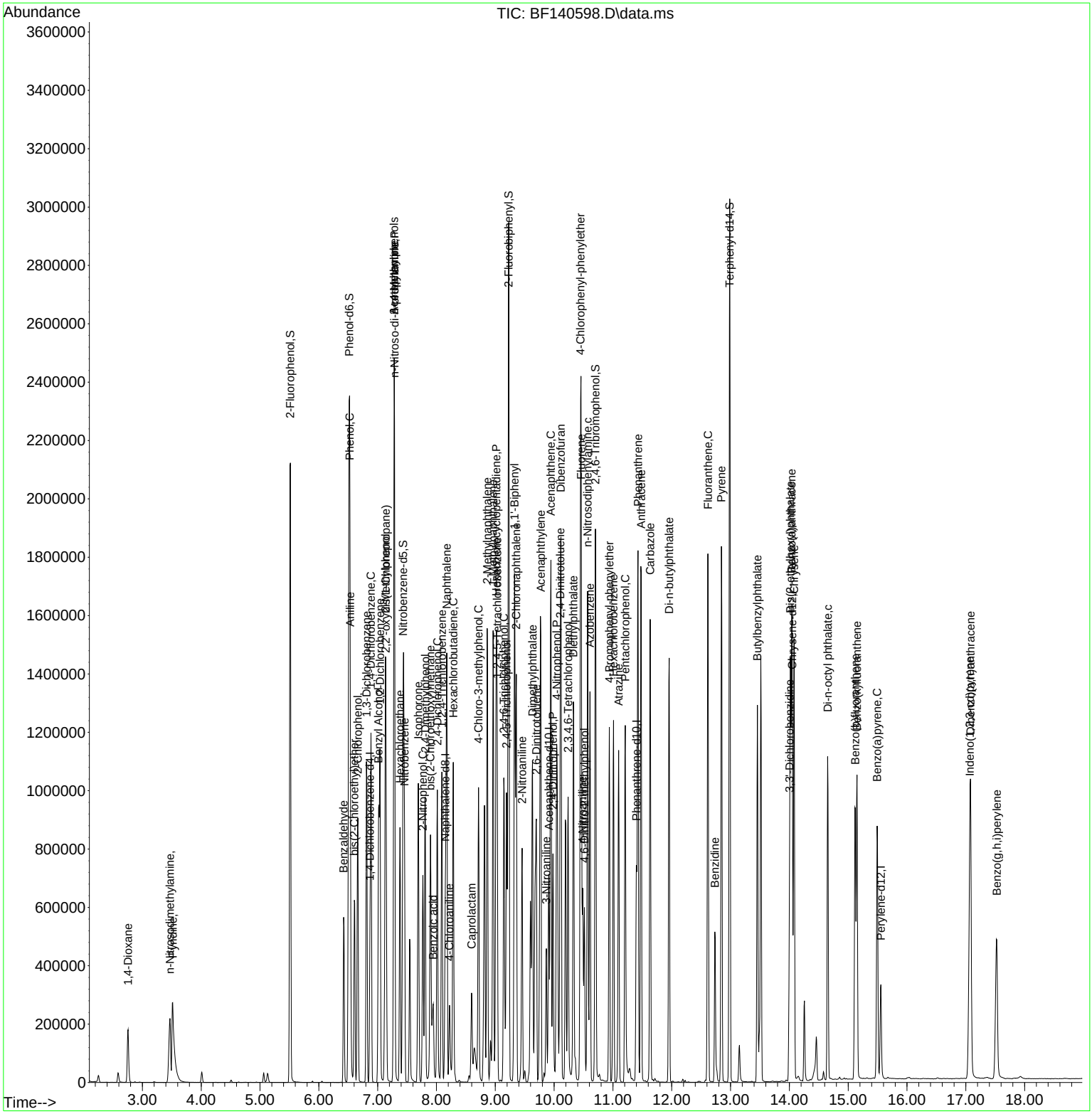
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140598.D
Acq On : 25 Nov 2024 13:02
Operator : RC/JU
Sample : PB165152BS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 25 13:42:08 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB165152BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140600.D
Acq On : 25 Nov 2024 13:54
Operator : RC/JU
Sample : PB165152BSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 25 14:23:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB165152BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.869	152	109034	20.000	ng	0.00
21) Naphthalene-d8	8.151	136	414003	20.000	ng	0.00
39) Acenaphthene-d10	9.910	164	229665	20.000	ng	0.00
64) Phenanthrene-d10	11.398	188	432290	20.000	ng	0.00
76) Chrysene-d12	14.051	240	254104	20.000	ng	0.00
86) Perylene-d12	15.557	264	215389	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	795018	124.408	ng	0.01
7) Phenol-d6	6.510	99	1025257	121.357	ng	0.00
23) Nitrobenzene-d5	7.434	82	672895	83.137	ng	0.00
42) 2,4,6-Tribromophenol	10.704	330	315302	128.365	ng	0.00
45) 2-Fluorobiphenyl	9.228	172	1296266	84.095	ng	0.00
79) Terphenyl-d14	12.986	244	1412352	86.548	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.746	88	104266	38.806	ng	98
3) Pyridine	3.505	79	258709	43.763	ng	99
4) n-Nitrosodimethylamine	3.458	42	143492	41.299	ng	92
6) Aniline	6.534	93	282196	47.457	ng	90
8) 2-Chlorophenol	6.663	128	309174	44.970	ng	95
9) Benzaldehyde	6.422	77	153487	34.319	ng	99
10) Phenol	6.528	94	387813	44.949	ng	99
11) bis(2-Chloroethyl)ether	6.604	93	291837	44.203	ng	99
12) 1,3-Dichlorobenzene	6.810	146	325535	42.139	ng	99
13) 1,4-Dichlorobenzene	6.887	146	327404	41.856	ng	99
14) 1,2-Dichlorobenzene	7.040	146	315458	43.039	ng	100
15) Benzyl Alcohol	7.016	79	280243	44.730	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.140	45	364425	46.722	ng	93
17) 2-Methylphenol	7.128	107	245042	44.525	ng	98
18) Hexachloroethane	7.381	117	124362	42.569	ng	98
19) n-Nitroso-di-n-propyla...	7.281	70	221100	44.283	ng	98
20) 3+4-Methylphenols	7.281	107	313821	44.364	ng	98
22) Acetophenone	7.281	105	418321	41.446	ng	100
24) Nitrobenzene	7.451	77	342083	40.893	ng	100
25) Isophorone	7.693	82	600875	44.510	ng	100
26) 2-Nitrophenol	7.769	139	167298	45.129	ng	97
27) 2,4-Dimethylphenol	7.804	122	245077	55.254	ng	99
28) bis(2-Chloroethoxy)met...	7.898	93	365627	44.457	ng	100
29) 2,4-Dichlorophenol	8.016	162	264433	44.992	ng	97
30) 1,2,4-Trichlorobenzene	8.093	180	273802	40.802	ng	99
31) Naphthalene	8.175	128	905902	42.481	ng	99
32) Benzoic acid	7.940	122	150123	40.258	ng	99
33) 4-Chloroaniline	8.222	127	137348	21.512	ng	100
34) Hexachlorobutadiene	8.287	225	184677	41.549	ng	99
35) Caprolactam	8.592	113	79973m	43.969	ng	
36) 4-Chloro-3-methylphenol	8.716	107	289415	43.981	ng	98
37) 2-Methylnaphthalene	8.863	142	594944	43.925	ng	100
38) 1-Methylnaphthalene	8.963	142	551141	41.513	ng	98
40) 1,2,4,5-Tetrachloroben...	9.028	216	290675	43.233	ng	99
41) Hexachlorocyclopentadiene	9.016	237	260138	163.733	ng	99
43) 2,4,6-Trichlorophenol	9.145	196	187773	44.508	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140600.D
Acq On : 25 Nov 2024 13:54
Operator : RC/JU
Sample : PB165152BSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 25 14:23:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB165152BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	197888	43.219	ng	97
46) 1,1'-Biphenyl	9.328	154	747311	43.583	ng	99
47) 2-Chloronaphthalene	9.357	162	553197	42.578	ng	99
48) 2-Nitroaniline	9.451	65	186161	44.639	ng	99
49) Acenaphthylene	9.769	152	912286	46.472	ng	99
50) Dimethylphthalate	9.628	163	685858	45.344	ng	100
51) 2,6-Dinitrotoluene	9.698	165	147685	43.052	ng	92
52) Acenaphthene	9.945	154	557959	44.732	ng	98
53) 3-Nitroaniline	9.869	138	96688	28.818	ng	92
54) 2,4-Dinitrophenol	9.981	184	136283	77.031	ng	96
55) Dibenzofuran	10.116	168	834711	43.872	ng	99
56) 4-Nitrophenol	10.039	139	199311	87.105	ng	96
57) 2,4-Dinitrotoluene	10.104	165	197463	43.312	ng	97
58) Fluorene	10.457	166	664573	43.517	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	170039	48.322	ng	95
60) Diethylphthalate	10.328	149	680128	44.256	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	324555	43.305	ng	97
62) 4-Nitroaniline	10.486	138	151693	43.108	ng	93
63) Azobenzene	10.610	77	642026	44.115	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	104960	47.514	ng	95
66) n-Nitrosodiphenylamine	10.569	169	569542	44.551	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	194816	43.760	ng	97
68) Hexachlorobenzene	11.010	284	221937	43.054	ng	99
69) Atrazine	11.098	200	188654	52.457	ng	99
70) Pentachlorophenol	11.210	266	197828	87.195	ng	99
71) Phenanthrene	11.428	178	933782	44.937	ng	99
72) Anthracene	11.475	178	949881	46.731	ng	100
73) Carbazole	11.633	167	865023	44.237	ng	100
74) Di-n-butylphthalate	11.957	149	1016548	45.029	ng	99
75) Fluoranthene	12.616	202	1004061	44.503	ng	99
77) Benzidine	12.733	184	264161	35.756	ng	100
78) Pyrene	12.845	202	1030730	43.870	ng	99
80) Butylbenzylphthalate	13.457	149	396298	46.822	ng	98
81) Benzo(a)anthracene	14.039	228	789309	46.925	ng	100
82) 3,3'-Dichlorobenzidine	13.998	252	147281	29.163	ng	100
83) Chrysene	14.080	228	687256	44.683	ng	99
84) Bis(2-ethylhexyl)phtha...	14.016	149	509958	47.716	ng	99
85) Di-n-octyl phthalate	14.657	149	730693	50.028	ng	98
87) Indeno(1,2,3-cd)pyrene	17.068	276	606607	43.216	ng	98
88) Benzo(b)fluoranthene	15.121	252	574094	42.435	ng	99
89) Benzo(k)fluoranthene	15.151	252	571947	48.311	ng	99
90) Benzo(a)pyrene	15.498	252	539283	49.025	ng	99
91) Dibenzo(a,h)anthracene	17.080	278	498038	43.325	ng	99
92) Benzo(g,h,i)perylene	17.521	276	452716	38.593	ng	98

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

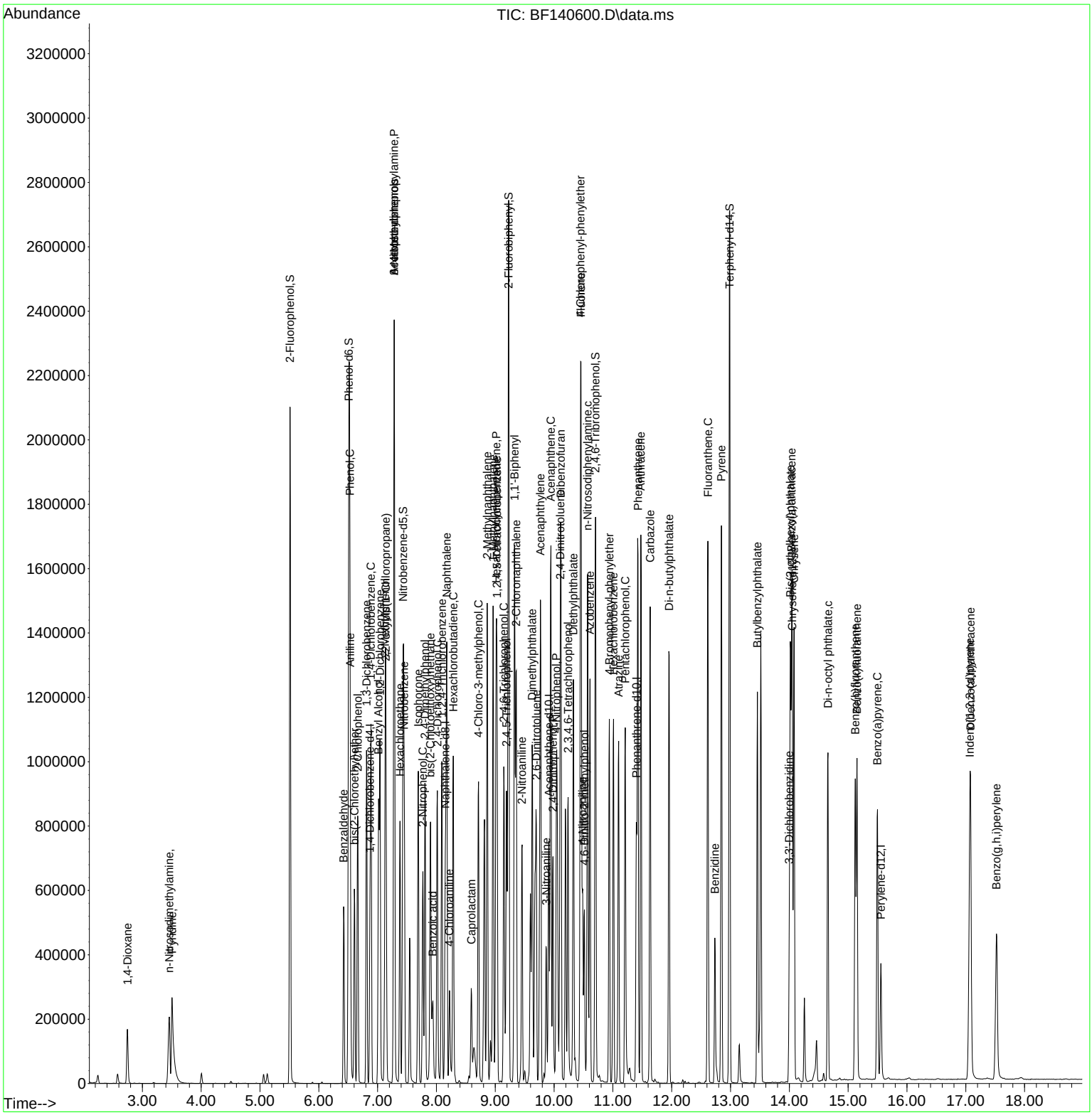
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112524\
Data File : BF140600.D
Acq On : 25 Nov 2024 13:54
Operator : RC/JU
Sample : PB165152BSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 25 14:23:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF112124.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Nov 21 15:23:48 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB165152BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/27/2024
Supervised By :mohammad ahmed 11/27/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140496.D
Acq On : 20 Nov 2024 13:08
Operator : RC/JU
Sample : P4892-02MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 20 13:32:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/22/2024
Supervised By :mohammad ahmed
11/22/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.875	152	124435	20.000	ng		0.00
21) Naphthalene-d8	8.157	136	465260	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	249636	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	454496	20.000	ng		0.00
76) Chrysene-d12	14.057	240	229017	20.000	ng		0.00
86) Perylene-d12	15.568	264	239777	20.000	ng		0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	661003	90.697	ng		0.02
7) Phenol-d6	6.516	99	856389	86.731	ng		0.01
23) Nitrobenzene-d5	7.434	82	556896	62.365	ng		0.00
42) 2,4,6-Tribromophenol	10.704	330	239726	96.569	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	1026634	66.111	ng		0.00
79) Terphenyl-d14	12.980	244	967340	73.318	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.681	88	120503	37.098	ng		98
3) Pyridine	3.446	79	273858	34.294	ng		99
4) n-Nitrosodimethylamine	3.399	42	170170	42.163	ng		99
6) Aniline	6.540	93	322914	37.594	ng	#	67
8) 2-Chlorophenol	6.663	128	347796	44.426	ng		98
9) Benzaldehyde	6.428	77	28158	4.758	ng		97
10) Phenol	6.528	94	450604	43.273	ng		88
11) bis(2-Chloroethyl)ether	6.610	93	346354	43.898	ng		100
12) 1,3-Dichlorobenzene	6.816	146	367039	42.492	ng		99
13) 1,4-Dichlorobenzene	6.893	146	372103	42.485	ng		99
14) 1,2-Dichlorobenzene	7.045	146	354704	43.624	ng		100
15) Benzyl Alcohol	7.016	79	311092	43.730	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.146	45	457498	41.979	ng		75
17) 2-Methylphenol	7.134	107	272983	42.387	ng	#	93
18) Hexachloroethane	7.387	117	140279	43.324	ng		99
19) n-Nitroso-di-n-propyla...	7.287	70	244503	40.999	ng		99
20) 3+4-Methylphenols	7.287	107	334559	41.539	ng		95
22) Acetophenone	7.281	105	460959	42.599	ng		99
24) Nitrobenzene	7.457	77	385461	41.459	ng		99
25) Isophorone	7.693	82	679615	42.943	ng		100
26) 2-Nitrophenol	7.769	139	186248	45.143	ng		98
27) 2,4-Dimethylphenol	7.810	122	272973m	51.680	ng		
28) bis(2-Chloroethoxy)met...	7.898	93	419149	43.193	ng		99
29) 2,4-Dichlorophenol	8.016	162	290893	44.562	ng		99
30) 1,2,4-Trichlorobenzene	8.092	180	302855	41.671	ng		99
31) Naphthalene	8.175	128	1004910	42.578	ng		100
32) Benzoic acid	7.934	122	175771	37.818	ng		96
33) 4-Chloroaniline	8.228	127	139160	16.954	ng		98
34) Hexachlorobutadiene	8.292	225	197566	42.665	ng		100
35) Caprolactam	8.592	113	91616m	42.226	ng		
36) 4-Chloro-3-methylphenol	8.716	107	310713	42.951	ng		99
37) 2-Methylnaphthalene	8.869	142	652863	43.139	ng		100
38) 1-Methylnaphthalene	8.969	142	603793	40.742	ng		100
40) 1,2,4,5-Tetrachloroben...	9.034	216	308094	44.630	ng		99
41) Hexachlorocyclopentadiene	9.016	237	304816	171.976	ng		100
43) 2,4,6-Trichlorophenol	9.151	196	203832	44.993	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140496.D
Acq On : 20 Nov 2024 13:08
Operator : RC/JU
Sample : P4892-02MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 20 13:32:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel
11/22/2024
Supervised By :mohammad ahmed
11/22/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	220223	44.461	ng	96
46) 1,1'-Biphenyl	9.328	154	807015	44.437	ng	100
47) 2-Chloronaphthalene	9.357	162	600001	43.370	ng	100
48) 2-Nitroaniline	9.457	65	199954	43.582	ng	99
49) Acenaphthylene	9.775	152	992239	47.405	ng	99
50) Dimethylphthalate	9.634	163	738750	45.401	ng	99
51) 2,6-Dinitrotoluene	9.698	165	161253	43.470	ng	96
52) Acenaphthene	9.945	154	698498m	49.408	ng	
53) 3-Nitroaniline	9.869	138	114209	29.317	ng	100
54) 2,4-Dinitrophenol	9.981	184	164791	86.146	ng	98
55) Dibenzofuran	10.116	168	902274	45.084	ng	99
56) 4-Nitrophenol	10.039	139	225615	79.398	ng	99
57) 2,4-Dinitrotoluene	10.104	165	213328	43.696	ng	98
58) Fluorene	10.463	166	696131	44.031	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	181348	46.369	ng	98
60) Diethylphthalate	10.328	149	743819	44.705	ng	100
61) 4-Chlorophenyl-phenyle...	10.451	204	344434	44.128	ng	99
62) 4-Nitroaniline	10.486	138	161229	40.477	ng	100
63) Azobenzene	10.610	77	775322	47.161	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	116238	47.535	ng	93
66) n-Nitrosodiphenylamine	10.569	169	609341	46.401	ng	99
67) 4-Bromophenyl-phenylether	10.939	248	206178	45.382	ng	98
68) Hexachlorobenzene	11.010	284	229563	44.909	ng	98
69) Atrazine	11.098	200	194458	48.945	ng	99
70) Pentachlorophenol	11.210	266	219134	79.583	ng	98
71) Phenanthrene	11.428	178	949707	44.482	ng	100
72) Anthracene	11.481	178	985110	47.079	ng	100
73) Carbazole	11.633	167	861731	41.708	ng	100
74) Di-n-butylphthalate	11.957	149	1083111	43.678	ng	100
75) Fluoranthene	12.616	202	956319	39.925	ng	99
77) Benzidine	12.739	184	83936	9.549	ng	100
78) Pyrene	12.845	202	954324	48.716	ng	100
80) Butylbenzylphthalate	13.457	149	369231	49.065	ng	96
81) Benzo(a)anthracene	14.045	228	693541	46.078	ng	99
82) 3,3'-Dichlorobenzidine	14.004	252	158694	33.171	ng	99
83) Chrysene	14.080	228	645670	47.015	ng	99
84) Bis(2-ethylhexyl)phtha...	14.022	149	483566	48.142	ng	100
85) Di-n-octyl phthalate	14.669	149	703473	49.727	ng	98
87) Indeno(1,2,3-cd)pyrene	17.080	276	798846	53.934	ng	100
88) Benzo(b)fluoranthene	15.127	252	636840	40.602	ng	100
89) Benzo(k)fluoranthene	15.163	252	565254	44.114	ng	99
90) Benzo(a)pyrene	15.504	252	589322	48.383	ng	99
91) Dibenzo(a,h)anthracene	17.098	278	655135	53.510	ng	100
92) Benzo(g,h,i)perylene	17.539	276	622290	49.717	ng	99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140496.D
Acq On : 20 Nov 2024 13:08
Operator : RC/JU
Sample : P4892-02MS
Misc :
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 20 13:32:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

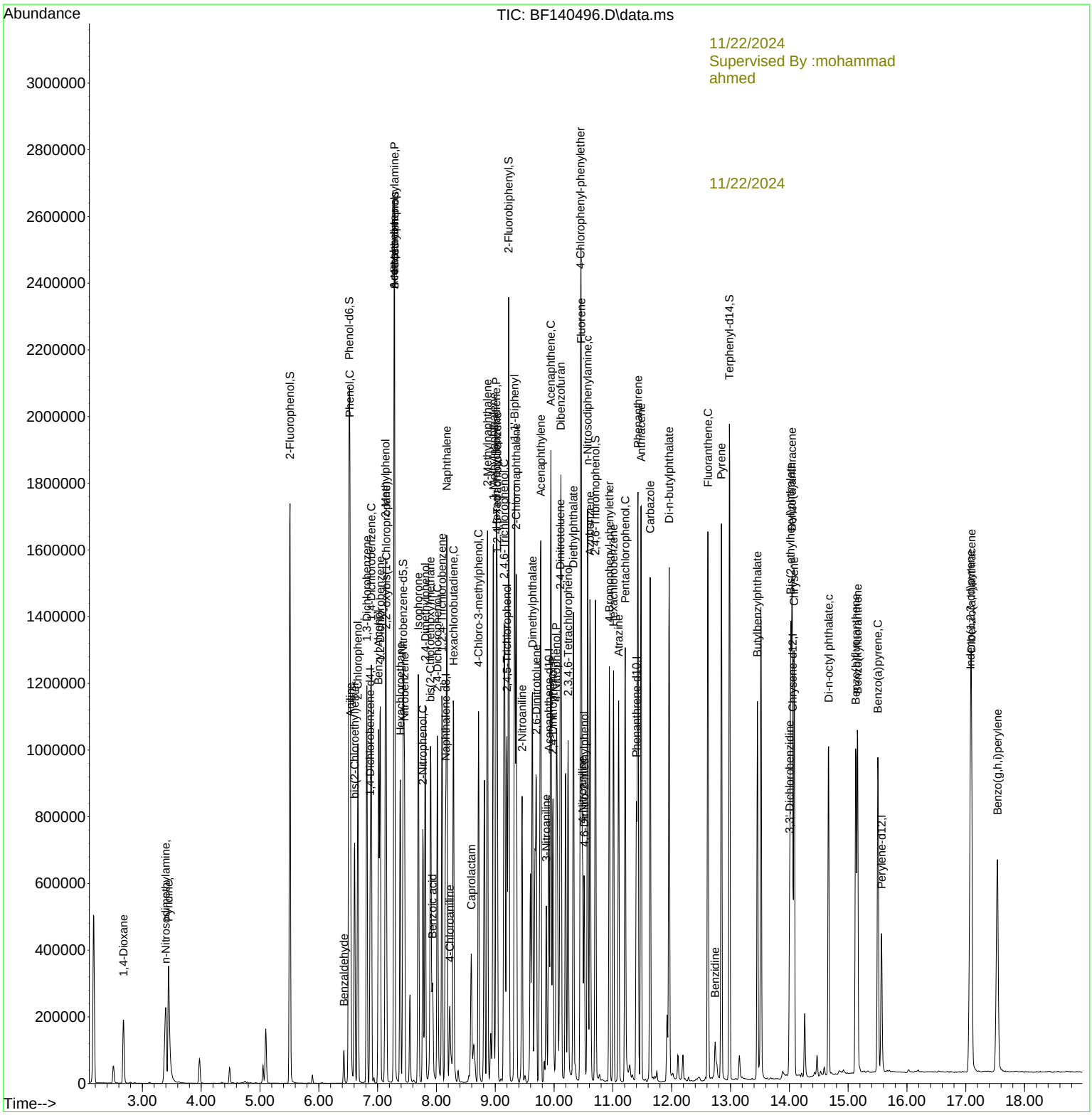
Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel

11/22/2024
Supervised By :mohammad ahmed

11/22/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140497.D
Acq On : 20 Nov 2024 13:35
Operator : RC/JU
Sample : P4892-02MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 20 14:10:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.875	152	115233	20.000	ng		0.00
21) Naphthalene-d8	8.157	136	427479	20.000	ng		0.00
39) Acenaphthene-d10	9.910	164	231375	20.000	ng		0.00
64) Phenanthrene-d10	11.398	188	409075	20.000	ng		0.00
76) Chrysene-d12	14.045	240	206876	20.000	ng		0.00
86) Perylene-d12	15.539	264	225913	20.000	ng		-0.02
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	712357	105.549	ng		0.02
7) Phenol-d6	6.516	99	921403	100.767	ng		0.01
23) Nitrobenzene-d5	7.439	82	592509	72.217	ng		0.00
42) 2,4,6-Tribromophenol	10.704	330	258218	112.228	ng		0.00
45) 2-Fluorobiphenyl	9.228	172	1084808	75.370	ng		0.00
79) Terphenyl-d14	12.980	244	1020809	85.651	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.681	88	130097	43.250	ng		96
3) Pyridine	3.446	79	321443	43.467	ng		99
4) n-Nitrosodimethylamine	3.399	42	182270	48.768	ng		98
6) Aniline	6.540	93	371943	46.759	ng	#	60
8) 2-Chlorophenol	6.663	128	377267	52.038	ng		98
9) Benzaldehyde	6.428	77	30199	5.510	ng		97
10) Phenol	6.528	94	485275	50.324	ng		86
11) bis(2-Chloroethyl)ether	6.610	93	373257	51.086	ng		100
12) 1,3-Dichlorobenzene	6.816	146	394685	49.341	ng		100
13) 1,4-Dichlorobenzene	6.892	146	398448	49.125	ng		99
14) 1,2-Dichlorobenzene	7.045	146	378219	50.231	ng		100
15) Benzyl Alcohol	7.016	79	334977	50.847	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.145	45	488625	48.416	ng		70
17) 2-Methylphenol	7.134	107	292445	49.036	ng	#	93
18) Hexachloroethane	7.387	117	149187	49.754	ng		99
19) n-Nitroso-di-n-propyla...	7.287	70	262846	47.595	ng		100
20) 3+4-Methylphenols	7.287	107	359547	48.207	ng		93
22) Acetophenone	7.281	105	491432	49.428	ng		99
24) Nitrobenzene	7.457	77	411726	48.198	ng		99
25) Isophorone	7.692	82	734030	50.480	ng		100
26) 2-Nitrophenol	7.775	139	201445	53.142	ng		98
27) 2,4-Dimethylphenol	7.810	122	296159m	61.025	ng		
28) bis(2-Chloroethoxy)met...	7.898	93	446049	50.027	ng		99
29) 2,4-Dichlorophenol	8.016	162	310556	51.778	ng		98
30) 1,2,4-Trichlorobenzene	8.098	180	327381	49.027	ng		99
31) Naphthalene	8.175	128	1067784	49.240	ng		100
32) Benzoic acid	7.939	122	193846	45.393	ng		96
33) 4-Chloroaniline	8.228	127	151029	20.026	ng		98
34) Hexachlorobutadiene	8.292	225	212771	50.010	ng		99
35) Caprolactam	8.598	113	98618m	49.470	ng		
36) 4-Chloro-3-methylphenol	8.716	107	334024	50.254	ng		99
37) 2-Methylnaphthalene	8.869	142	689081	49.557	ng		99
38) 1-Methylnaphthalene	8.969	142	648042	47.593	ng		99
40) 1,2,4,5-Tetrachloroben...	9.034	216	329073	51.431	ng		99
41) Hexachlorocyclopentadiene	9.016	237	332726	202.539	ng		100
43) 2,4,6-Trichlorophenol	9.151	196	220697	52.560	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140497.D
Acq On : 20 Nov 2024 13:35
Operator : RC/JU
Sample : P4892-02MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 20 14:10:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	230550	50.220	ng	97
46) 1,1'-Biphenyl	9.333	154	846207	50.272	ng	99
47) 2-Chloronaphthalene	9.357	162	638544	49.799	ng	99
48) 2-Nitroaniline	9.457	65	215455	50.667	ng	99
49) Acenaphthylene	9.775	152	1045592	53.896	ng	100
50) Dimethylphthalate	9.633	163	791800	52.502	ng	100
51) 2,6-Dinitrotoluene	9.698	165	169868	49.407	ng	98
52) Acenaphthene	9.945	154	747063m	57.014	ng	
53) 3-Nitroaniline	9.869	138	117324	32.493	ng	100
54) 2,4-Dinitrophenol	9.980	184	180348	101.720	ng	98
55) Dibenzofuran	10.116	168	959230	51.712	ng	100
56) 4-Nitrophenol	10.045	139	238994	90.745	ng	98
57) 2,4-Dinitrotoluene	10.104	165	227337	50.241	ng	99
58) Fluorene	10.463	166	738282	50.382	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.239	232	193061	53.260	ng	99
60) Diethylphthalate	10.328	149	794405	51.514	ng	99
61) 4-Chlorophenyl-phenyle...	10.451	204	368215	50.898	ng	99
62) 4-Nitroaniline	10.486	138	172490	46.721	ng	99
63) Azobenzene	10.610	77	826525	54.244	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	123849	56.272	ng	96
66) n-Nitrosodiphenylamine	10.569	169	647087	54.747	ng	100
67) 4-Bromophenyl-phenylether	10.939	248	222069	54.307	ng	98
68) Hexachlorobenzene	11.010	284	245229	53.300	ng	98
69) Atrazine	11.098	200	205079	57.349	ng	99
70) Pentachlorophenol	11.210	266	241085	97.276	ng	99
71) Phenanthrene	11.427	178	1008970	52.505	ng	100
72) Anthracene	11.480	178	1030542	54.719	ng	100
73) Carbazole	11.633	167	913948	49.147	ng	100
74) Di-n-butylphthalate	11.957	149	1161034	52.019	ng	100
75) Fluoranthene	12.616	202	1005608	46.644	ng	99
77) Benzidine	12.739	184	149604	18.842	ng	98
78) Pyrene	12.845	202	1002591	56.658	ng	100
80) Butylbenzylphthalate	13.457	149	380539	55.980	ng	96
81) Benzo(a)anthracene	14.033	228	751085	55.241	ng	99
82) 3,3'-Dichlorobenzidine	13.998	252	167008	38.645	ng	99
83) Chrysene	14.074	228	648530	52.277	ng	100
84) Bis(2-ethylhexyl)phtha...	14.016	149	496820	54.755	ng	99
85) Di-n-octyl phthalate	14.639	149	743761	58.202	ng	99
87) Indeno(1,2,3-cd)pyrene	17.051	276	870838	62.402	ng	99
88) Benzo(b)fluoranthene	15.104	252	742952	50.274	ng	99
89) Benzo(k)fluoranthene	15.133	252	566235	46.902	ng	98
90) Benzo(a)pyrene	15.480	252	642992	56.028	ng	99
91) Dibenzo(a,h)anthracene	17.068	278	709908	61.542	ng	99
92) Benzo(g,h,i)perylene	17.509	276	671446	56.936	ng	99

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

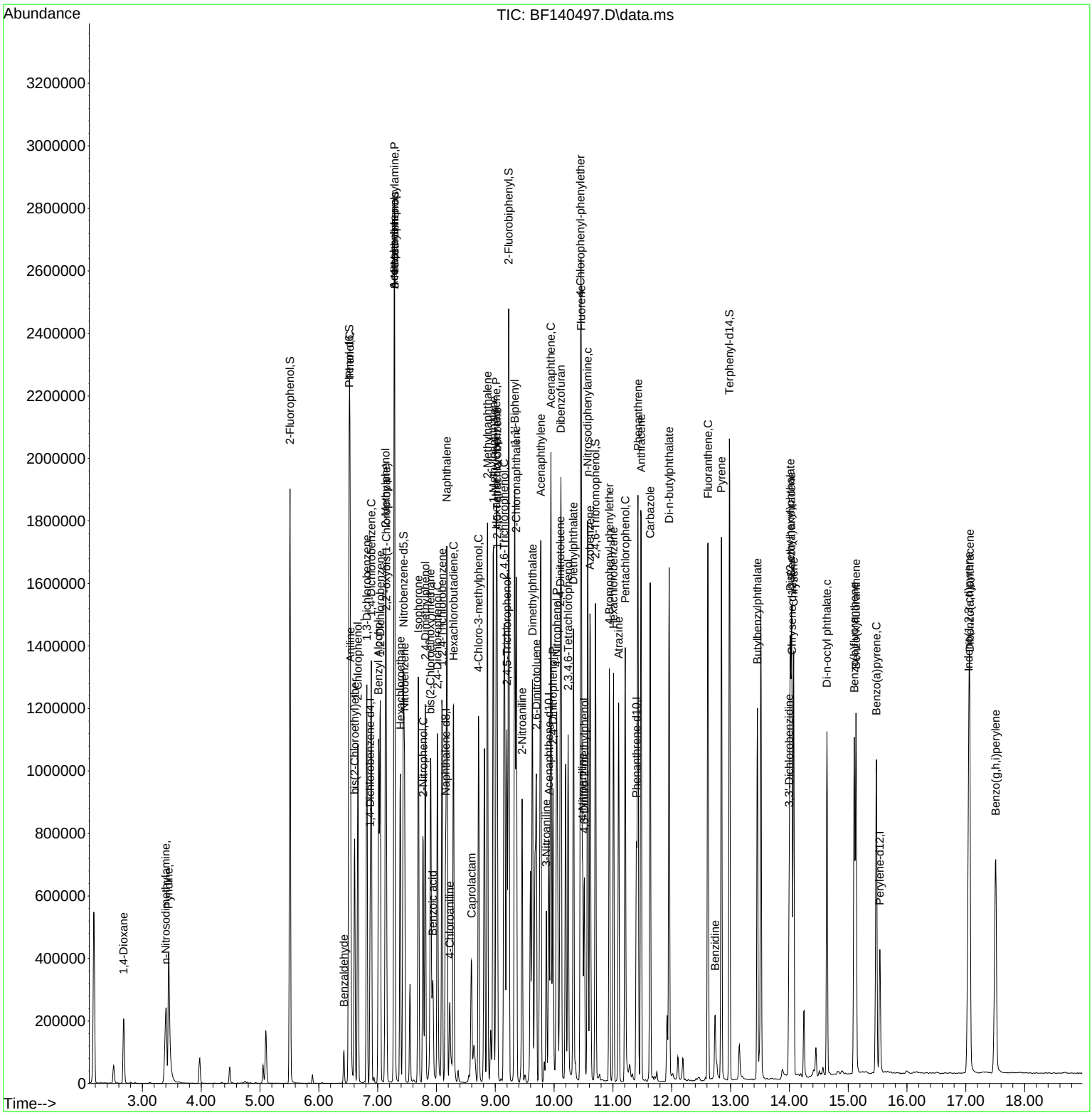
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF112024\
Data File : BF140497.D
Acq On : 20 Nov 2024 13:35
Operator : RC/JU
Sample : P4892-02MSD
Misc :
ALS Vial : 11 Sample Multiplier: 1

Quant Time: Nov 20 14:10:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF111324.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Nov 13 14:40:06 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-310-BOTMSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/22/2024
Supervised By :mohammad ahmed 11/22/2024



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Manual Integration Report

Sequence:	BF111324	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BF140333.D	Benzoic acid	yogesh	11/14/2024 3:08:33 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software
SSTDICC010	BF140334.D	2,3,4,6-Tetrachlorophenol	yogesh	11/14/2024 3:08:38 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software
SSTDICC010	BF140334.D	Benzoic acid	yogesh	11/14/2024 3:08:38 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software
SSTDICC080	BF140339.D	Caprolactam	yogesh	11/14/2024 3:08:41 AM	mohammad	11/15/2024 5:49:17 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BF112024	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140488.D	2,4-Dimethylphenol	yogesh	11/22/2024 3:49:58 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software
SSTDCCC040	BF140488.D	Acenaphthene	yogesh	11/22/2024 3:49:58 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software
P4892-02MS	BF140496.D	2,4-Dimethylphenol	yogesh	11/22/2024 3:50:23 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software
P4892-02MS	BF140496.D	Acenaphthene	yogesh	11/22/2024 3:50:23 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software
P4892-02MS	BF140496.D	Caprolactam	yogesh	11/22/2024 3:50:23 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software
P4892-02MSD	BF140497.D	2,4-Dimethylphenol	yogesh	11/22/2024 3:50:25 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software
P4892-02MSD	BF140497.D	Acenaphthene	yogesh	11/22/2024 3:50:25 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software
P4892-02MSD	BF140497.D	Caprolactam	yogesh	11/22/2024 3:50:25 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software
SSTDCCC040	BF140499.D	2,4-Dimethylphenol	yogesh	11/22/2024 3:50:27 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software
SSTDCCC040	BF140501.D	2,4-Dimethylphenol	yogesh	11/22/2024 3:50:29 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software
P4892-01	BF140510.D	Benzo(b)fluoranthene	yogesh	11/22/2024 3:50:31 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software
P4892-01	BF140510.D	Benzo(k)fluoranthene	yogesh	11/22/2024 3:50:31 AM	mohammad	11/22/2024 4:00:42 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BF112024	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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Manual Integration Report

Sequence:	BF112124	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BF140530.D	Benzoic acid	yogesh	11/22/2024 3:53:18 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDICC020	BF140531.D	Acenaphthene	yogesh	11/22/2024 3:53:19 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDICCC040	BF140532.D	Acenaphthene	yogesh	11/22/2024 3:53:21 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDICV040	BF140536.D	Acenaphthene	yogesh	11/22/2024 3:53:22 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDCCC040	BF140539.D	2,4-Dimethylphenol	yogesh	11/22/2024 3:53:24 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software
SSTDCCC040	BF140539.D	Acenaphthene	yogesh	11/22/2024 3:53:24 AM	mohammad	11/27/2024 6:03:59 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	bf112524	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140590.D	2,4-Dimethylphenol	yogesh	11/27/2024 5:26:43 AM	mohammad	11/27/2024 6:04:35 AM	Peak Integrated by Software
PB165086BS	BF140594.D	Caprolactam	yogesh	11/27/2024 5:26:46 AM	mohammad	11/27/2024 6:04:35 AM	Peak Integrated by Software
PB165152BS	BF140598.D	Caprolactam	yogesh	11/27/2024 5:26:57 AM	mohammad	11/27/2024 6:04:35 AM	Peak Integrated by Software
PB165152BSD	BF140600.D	Caprolactam	yogesh	11/27/2024 5:26:58 AM	mohammad	11/27/2024 6:04:35 AM	Peak Integrated by Software
SSTDCCC040	BF140604.D	2,4-Dimethylphenol	yogesh	11/27/2024 5:27:03 AM	mohammad	11/27/2024 6:04:35 AM	Peak Integrated by Software

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111324

Review By	yogesh	Review On	11/14/2024 3:08:53 AM				
Supervise By	mohammad	Supervise On	11/15/2024 5:49:17 AM				
SubDirectory	BF111324	HP Acquire Method	BNA_F		HP Processing Method	Bf111324	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140331.D	13 Nov 2024 08:35	RC/JU	Ok
2	SSTDICC2.5	BF140332.D	13 Nov 2024 09:01	RC/JU	Ok
3	SSTDICC005	BF140333.D	13 Nov 2024 09:27	RC/JU	Ok,M
4	SSTDICC010	BF140334.D	13 Nov 2024 09:53	RC/JU	Ok,M
5	SSTDICC020	BF140335.D	13 Nov 2024 10:29	RC/JU	Ok
6	SSTDICCC040	BF140336.D	13 Nov 2024 10:55	RC/JU	Not Ok
7	SSTDICC050	BF140337.D	13 Nov 2024 11:21	RC/JU	Ok
8	SSTDICC060	BF140338.D	13 Nov 2024 11:47	RC/JU	Ok
9	SSTDICC080	BF140339.D	13 Nov 2024 12:13	RC/JU	Ok,M
10	SSTDICCC040	BF140340.D	13 Nov 2024 12:48	RC/JU	Ok
11	SSTDICV040	BF140341.D	13 Nov 2024 13:19	RC/JU	Ok
12	PB164401BL	BF140342.D	13 Nov 2024 13:45	RC/JU	Ok
13	P4495-11	BF140343.D	13 Nov 2024 15:25	RC/JU	Dilution
14	P4495-11DL	BF140344.D	13 Nov 2024 16:02	RC/JU	Ok
15	P3845-03	BF140345.D	13 Nov 2024 16:40	RC/JU	Dilution
16	P3845-03DL	BF140346.D	13 Nov 2024 17:06	RC/JU	Ok
17	P3845-06	BF140347.D	13 Nov 2024 17:32	RC/JU	Dilution
18	P3845-06DL	BF140348.D	13 Nov 2024 17:58	RC/JU	Not Ok
19	SP6681	BF140349.D	13 Nov 2024 18:39	RC/JU	Ok,NS

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112024

Review By	yogesh	Review On	11/22/2024 3:51:12 AM				
Supervise By	mohammad	Supervise On	11/22/2024 4:00:42 AM				
SubDirectory	BF112024	HP Acquire Method	BNA_F		HP Processing Method	Bf111324	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140487.D	20 Nov 2024 09:04	RC/JU	Ok
2	SSTDCCC040	BF140488.D	20 Nov 2024 09:31	RC/JU	Ok,M
3	PB165039BL	BF140489.D	20 Nov 2024 09:57	RC/JU	Ok
4	PB165039BS	BF140490.D	20 Nov 2024 10:23	RC/JU	Ok,M
5	PB165039BSD	BF140491.D	20 Nov 2024 10:49	RC/JU	Ok,M
6	P4843-01	BF140492.D	20 Nov 2024 11:23	RC/JU	Ok,M
7	P4868-01	BF140493.D	20 Nov 2024 11:49	RC/JU	Ok
8	P4868-03	BF140494.D	20 Nov 2024 12:15	RC/JU	ReRun
9	P4892-02	BF140495.D	20 Nov 2024 12:42	RC/JU	Ok
10	P4892-02MS	BF140496.D	20 Nov 2024 13:08	RC/JU	Ok,M
11	P4892-02MSD	BF140497.D	20 Nov 2024 13:35	RC/JU	Ok,M
12	P4868-03RE	BF140498.D	20 Nov 2024 14:01	RC/JU	Confirms
13	SSTDCCC040	BF140499.D	20 Nov 2024 14:34	RC/JU	Ok,M
14	DFTPP	BF140500.D	20 Nov 2024 15:33	RC/JU	Ok
15	SSTDCCC040	BF140501.D	20 Nov 2024 15:59	RC/JU	Ok,M
16	PB165086BL	BF140502.D	20 Nov 2024 16:25	RC/JU	Ok
17	P4849-02	BF140503.D	20 Nov 2024 16:58	RC/JU	Ok
18	P4870-07	BF140504.D	20 Nov 2024 17:24	RC/JU	Ok
19	P4910-01	BF140505.D	20 Nov 2024 17:51	RC/JU	Ok
20	P4893-01	BF140506.D	20 Nov 2024 18:17	RC/JU	Ok
21	P4893-05	BF140507.D	20 Nov 2024 18:43	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112024

Review By	yogesh	Review On	11/22/2024 3:51:12 AM				
Supervise By	mohammad	Supervise On	11/22/2024 4:00:42 AM				
SubDirectory	BF112024	HP Acquire Method	BNA_F		HP Processing Method	Bf111324	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4768-05	BF140508.D	20 Nov 2024 19:09	RC/JU	Ok
23	P4870-10	BF140509.D	20 Nov 2024 19:35	RC/JU	Ok
24	P4892-01	BF140510.D	20 Nov 2024 20:02	RC/JU	Ok,M
25	P4909-01	BF140511.D	20 Nov 2024 20:28	RC/JU	Ok,M
26	P4910-05	BF140512.D	20 Nov 2024 20:54	RC/JU	Ok,M
27	P4889-05DL	BF140513.D	20 Nov 2024 21:21	RC/JU	Ok,M
28	P4822-10	BF140514.D	20 Nov 2024 21:47	RC/JU	Ok,M
29	P4822-12	BF140515.D	20 Nov 2024 22:13	RC/JU	Ok,M
30	P4822-06	BF140516.D	20 Nov 2024 22:40	RC/JU	Ok,M
31	P4822-08	BF140517.D	20 Nov 2024 23:06	RC/JU	Ok,M
32	P4822-02	BF140518.D	20 Nov 2024 23:32	RC/JU	ReRun
33	P4822-04	BF140519.D	20 Nov 2024 23:58	RC/JU	ReRun
34	P4887-05	BF140520.D	21 Nov 2024 00:24	RC/JU	ReRun
35	P4860-02	BF140521.D	21 Nov 2024 00:51	RC/JU	ReRun
36	P4860-03	BF140522.D	21 Nov 2024 01:17	RC/JU	ReRun
37	P4860-07	BF140523.D	21 Nov 2024 01:43	RC/JU	ReRun
38	P4916-01	BF140524.D	21 Nov 2024 02:09	RC/JU	ReRun
39	P4916-05	BF140525.D	21 Nov 2024 02:35	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM				
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM				
SubDirectory	BF112124	HP Acquire Method	BNA_F		HP Processing Method	bf112124	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140526.D	21 Nov 2024 10:17	RC/JU	Ok
2	SSTDCCC040	BF140527.D	21 Nov 2024 10:44	RC/JU	Not Ok
3	SSTDICC2.5	BF140528.D	21 Nov 2024 11:13	RC/JU	Ok
4	SSTDICC005	BF140529.D	21 Nov 2024 11:39	RC/JU	Ok
5	SSTDICC010	BF140530.D	21 Nov 2024 12:05	RC/JU	Ok,M
6	SSTDICC020	BF140531.D	21 Nov 2024 12:32	RC/JU	Ok,M
7	SSTDICCC040	BF140532.D	21 Nov 2024 12:58	RC/JU	Ok,M
8	SSTDICC050	BF140533.D	21 Nov 2024 13:25	RC/JU	Ok
9	SSTDICC060	BF140534.D	21 Nov 2024 13:51	RC/JU	Ok
10	SSTDICC080	BF140535.D	21 Nov 2024 14:18	RC/JU	Ok
11	SSTDICV040	BF140536.D	21 Nov 2024 15:07	RC/JU	Ok,M
12	PB165144BL	BF140537.D	21 Nov 2024 15:34	RC/JU	Ok
13	DFTPP	BF140538.D	21 Nov 2024 16:27	RC/JU	Ok
14	SSTDCCC040	BF140539.D	21 Nov 2024 16:54	RC/JU	Ok,M
15	PB165060TB	BF140540.D	21 Nov 2024 17:20	RC/JU	Ok
16	P4887-06	BF140541.D	21 Nov 2024 17:55	RC/JU	Ok
17	P4887-02	BF140542.D	21 Nov 2024 18:21	RC/JU	Ok
18	P4870-16	BF140543.D	21 Nov 2024 18:48	RC/JU	Ok
19	P4870-15	BF140544.D	21 Nov 2024 19:14	RC/JU	Ok
20	P4870-14	BF140545.D	21 Nov 2024 19:40	RC/JU	Ok
21	P4870-13	BF140546.D	21 Nov 2024 20:07	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM				
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM				
SubDirectory	BF112124	HP Acquire Method	BNA_F		HP Processing Method	bf112124	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4929-02	BF140547.D	21 Nov 2024 20:33	RC/JU	Ok
23	P4924-04	BF140548.D	21 Nov 2024 20:59	RC/JU	Ok
24	P4921-01	BF140549.D	21 Nov 2024 21:25	RC/JU	Ok
25	P4916-12	BF140550.D	21 Nov 2024 21:51	RC/JU	Ok
26	P4916-08	BF140551.D	21 Nov 2024 22:18	RC/JU	Ok
27	P4916-04	BF140552.D	21 Nov 2024 22:44	RC/JU	Ok
28	P4887-01	BF140553.D	21 Nov 2024 23:10	RC/JU	Ok
29	P4916-09	BF140554.D	21 Nov 2024 23:36	RC/JU	Ok
30	P4916-09MS	BF140555.D	22 Nov 2024 00:02	RC/JU	Ok,M
31	P4916-09MSD	BF140556.D	22 Nov 2024 00:28	RC/JU	Ok,M
32	P4916-01	BF140557.D	22 Nov 2024 00:54	RC/JU	Ok
33	P4916-05RE	BF140558.D	22 Nov 2024 01:21	RC/JU	Confirms
34	P4887-05RE	BF140559.D	22 Nov 2024 01:47	RC/JU	Confirms
35	P4924-01	BF140560.D	22 Nov 2024 02:13	RC/JU	ReRun
36	P4936-01	BF140561.D	22 Nov 2024 02:39	RC/JU	Ok,M
37	P4929-01	BF140562.D	22 Nov 2024 03:06	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM				
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM				
SubDirectory	BF112524	HP Acquire Method	BNA_F		HP Processing Method	bf112124	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140589.D	25 Nov 2024 09:07	RC/JU	Ok
2	SSTDCCC040	BF140590.D	25 Nov 2024 09:33	RC/JU	Ok,M
3	PB165123TB	BF140591.D	25 Nov 2024 09:59	RC/JU	Ok
4	PB165155BS	BF140592.D	25 Nov 2024 10:25	RC/JU	Ok,M
5	PB165155BL	BF140593.D	25 Nov 2024 10:51	RC/JU	Ok
6	PB165086BS	BF140594.D	25 Nov 2024 11:17	RC/JU	Ok,M
7	PB165111TB	BF140595.D	25 Nov 2024 11:43	RC/JU	Ok
8	PB165052BS	BF140596.D	25 Nov 2024 12:09	RC/JU	Ok,M
9	PB164986TB	BF140597.D	25 Nov 2024 12:36	RC/JU	Ok
10	PB165152BS	BF140598.D	25 Nov 2024 13:02	RC/JU	Ok,M
11	PB164886TB	BF140599.D	25 Nov 2024 13:27	RC/JU	Ok
12	PB165152BSD	BF140600.D	25 Nov 2024 13:54	RC/JU	Ok,M
13	PB165152BL	BF140601.D	25 Nov 2024 14:28	RC/JU	Ok
14	PB165185BS	BF140602.D	25 Nov 2024 14:54	RC/JU	Ok,M
15	DFTPP	BF140603.D	25 Nov 2024 15:23	RC/JU	Ok
16	SSTDCCC040	BF140604.D	25 Nov 2024 15:49	RC/JU	Ok,M
17	PB165052BL	BF140605.D	25 Nov 2024 16:17	RC/JU	Ok
18	P4947-01	BF140606.D	25 Nov 2024 16:49	RC/JU	Ok
19	P4892-04	BF140607.D	25 Nov 2024 17:15	RC/JU	Ok
20	P4860-09	BF140608.D	25 Nov 2024 17:41	RC/JU	Ok
21	P4860-01	BF140609.D	25 Nov 2024 18:07	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM		
SubDirectory	BF112524	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4960-01	BF140610.D	25 Nov 2024 18:34	RC/JU	Ok
23	P4960-05	BF140611.D	25 Nov 2024 19:00	RC/JU	Ok
24	P4892-03	BF140612.D	25 Nov 2024 19:26	RC/JU	Ok
25	P4892-03MS	BF140613.D	25 Nov 2024 19:52	RC/JU	Ok,M
26	P4892-03MSD	BF140614.D	25 Nov 2024 20:18	RC/JU	Ok,M
27	P4860-06	BF140615.D	25 Nov 2024 20:45	RC/JU	Ok
28	P4860-09MS	BF140616.D	25 Nov 2024 21:11	RC/JU	Not Ok
29	P4860-09MSD	BF140617.D	25 Nov 2024 21:37	RC/JU	Not Ok
30	P4960-03	BF140618.D	25 Nov 2024 22:03	RC/JU	ReRun
31	P4860-10	BF140619.D	25 Nov 2024 22:29	RC/JU	ReRun
32	P4860-04	BF140620.D	25 Nov 2024 22:55	RC/JU	Ok
33	P4860-07	BF140621.D	25 Nov 2024 23:22	RC/JU	Ok
34	P4860-03	BF140622.D	25 Nov 2024 23:48	RC/JU	Ok
35	P4951-01	BF140623.D	26 Nov 2024 00:14	RC/JU	ReRun
36	P4954-01	BF140624.D	26 Nov 2024 00:40	RC/JU	Ok,M
37	P4954-01MS	BF140625.D	26 Nov 2024 01:06	RC/JU	Ok,M
38	P4954-01MSD	BF140626.D	26 Nov 2024 01:32	RC/JU	Ok,M
39	P4954-03	BF140627.D	26 Nov 2024 01:58	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111324

Review By	yogesh	Review On	11/14/2024 3:08:53 AM		
Supervise By	mohammad	Supervise On	11/15/2024 5:49:17 AM		
SubDirectory	BF111324	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140331.D	13 Nov 2024 08:35		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF140332.D	13 Nov 2024 09:01		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF140333.D	13 Nov 2024 09:27	Compound#41,54,77 removed from 5 ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BF140334.D	13 Nov 2024 09:53		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF140335.D	13 Nov 2024 10:29		RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF140336.D	13 Nov 2024 10:55	Injection Error	RC/JU	Not Ok
7	SSTDICC050	SSTDICC050	BF140337.D	13 Nov 2024 11:21		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BF140338.D	13 Nov 2024 11:47		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BF140339.D	13 Nov 2024 12:13	Compound#09 removed from 80 ppm	RC/JU	Ok,M
10	SSTDICCC040	SSTDICCC040	BF140340.D	13 Nov 2024 12:48		RC/JU	Ok
11	SSTDICV040	ICVBF111324	BF140341.D	13 Nov 2024 13:19		RC/JU	Ok
12	PB164401BL	PB164401BL	BF140342.D	13 Nov 2024 13:45		RC/JU	Ok
13	P4495-11	PT-BNA-SOIL	BF140343.D	13 Nov 2024 15:25	PT Sample, Need 5X Dilution	RC/JU	Dilution
14	P4495-11DL	PT-BNA-SOILDL	BF140344.D	13 Nov 2024 16:02		RC/JU	Ok
15	P3845-03	PT-BN-WP	BF140345.D	13 Nov 2024 16:40	PT Sample Analyzed for confirmation - Need 5X Dilution.	RC/JU	Dilution
16	P3845-03DL	PT-BN-WPDL	BF140346.D	13 Nov 2024 17:06		RC/JU	Ok
17	P3845-06	PT-ACIDS-WP	BF140347.D	13 Nov 2024 17:32	PT Sample Analyzed for confirmation - Need 5X Dilution.	RC/JU	Dilution

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF111324

Review By	yogesh	Review On	11/14/2024 3:08:53 AM		
Supervise By	mohammad	Supervise On	11/15/2024 5:49:17 AM		
SubDirectory	BF111324	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12327,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	P3845-06DL	PT-ACIDS-WPDL	BF140348.D	13 Nov 2024 17:58	Dilution not matching (Low results)	RC/JU	Not Ok
19	SP6681	SP6681	BF140349.D	13 Nov 2024 18:39	8270-625.1 SPIKE SOLUTION	RC/JU	Ok,NS

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112024

Review By	yogesh	Review On	11/22/2024 3:51:12 AM		
Supervise By	mohammad	Supervise On	11/22/2024 4:00:42 AM		
SubDirectory	BF112024	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140487.D	20 Nov 2024 09:04		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140488.D	20 Nov 2024 09:31		RC/JU	Ok,M
3	PB165039BL	PB165039BL	BF140489.D	20 Nov 2024 09:57		RC/JU	Ok
4	PB165039BS	PB165039BS	BF140490.D	20 Nov 2024 10:23		RC/JU	Ok,M
5	PB165039BSD	PB165039BSD	BF140491.D	20 Nov 2024 10:49		RC/JU	Ok,M
6	P4843-01	SW-WTS-01	BF140492.D	20 Nov 2024 11:23		RC/JU	Ok,M
7	P4868-01	RW5-SP100-20241114	BF140493.D	20 Nov 2024 11:49		RC/JU	Ok
8	P4868-03	RW5-SP303-20241114	BF140494.D	20 Nov 2024 12:15	Internal Standard Fail	RC/JU	ReRun
9	P4892-02	WB-310-BOT	BF140495.D	20 Nov 2024 12:42		RC/JU	Ok
10	P4892-02MS	WB-310-BOTMS	BF140496.D	20 Nov 2024 13:08		RC/JU	Ok,M
11	P4892-02MSD	WB-310-BOTMSD	BF140497.D	20 Nov 2024 13:35		RC/JU	Ok,M
12	P4868-03RE	RW5-SP303-20241114I	BF140498.D	20 Nov 2024 14:01	Internal Standard Fail	RC/JU	Confirms
13	SSTDCCC040	SSTDCCC040EC	BF140499.D	20 Nov 2024 14:34		RC/JU	Ok,M
14	DFTPP	DFTPP	BF140500.D	20 Nov 2024 15:33		RC/JU	Ok
15	SSTDCCC040	SSTDCCC040	BF140501.D	20 Nov 2024 15:59		RC/JU	Ok,M
16	PB165086BL	PB165086BL	BF140502.D	20 Nov 2024 16:25		RC/JU	Ok
17	P4849-02	RR-1	BF140503.D	20 Nov 2024 16:58		RC/JU	Ok
18	P4870-07	MH-736	BF140504.D	20 Nov 2024 17:24		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112024

Review By	yogesh	Review On	11/22/2024 3:51:12 AM		
Supervise By	mohammad	Supervise On	11/22/2024 4:00:42 AM		
SubDirectory	BF112024	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4910-01	MH-COTTAGE	BF140505.D	20 Nov 2024 17:51		RC/JU	Ok
20	P4893-01	MH-763	BF140506.D	20 Nov 2024 18:17		RC/JU	Ok
21	P4893-05	MH-762	BF140507.D	20 Nov 2024 18:43		RC/JU	Ok
22	P4768-05	B-5	BF140508.D	20 Nov 2024 19:09	Internal Standard Fail	RC/JU	Ok
23	P4870-10	TP-15	BF140509.D	20 Nov 2024 19:35		RC/JU	Ok
24	P4892-01	WB-310-TOP	BF140510.D	20 Nov 2024 20:02		RC/JU	Ok,M
25	P4909-01	BU-02-111824	BF140511.D	20 Nov 2024 20:28		RC/JU	Ok,M
26	P4910-05	MH-759	BF140512.D	20 Nov 2024 20:54	Internal Standard Fail	RC/JU	Ok,M
27	P4889-05DL	#72-11930DL	BF140513.D	20 Nov 2024 21:21	Internal Standard Fail	RC/JU	Ok,M
28	P4822-10	SOIL-5	BF140514.D	20 Nov 2024 21:47		RC/JU	Ok,M
29	P4822-12	SOIL-6	BF140515.D	20 Nov 2024 22:13		RC/JU	Ok,M
30	P4822-06	SOIL-3	BF140516.D	20 Nov 2024 22:40		RC/JU	Ok,M
31	P4822-08	SOIL-4	BF140517.D	20 Nov 2024 23:06		RC/JU	Ok,M
32	P4822-02	SOIL-1	BF140518.D	20 Nov 2024 23:32	Internal Standard Fail	RC/JU	ReRun
33	P4822-04	SOIL-2	BF140519.D	20 Nov 2024 23:58	Internal Standard Fail	RC/JU	ReRun
34	P4887-05	MH-760	BF140520.D	21 Nov 2024 00:24	Internal Standard Fail	RC/JU	ReRun
35	P4860-02	PH2-BOT-001	BF140521.D	21 Nov 2024 00:51	Internal Standard Fail	RC/JU	ReRun
36	P4860-03	PH2-BOT-002	BF140522.D	21 Nov 2024 01:17	Internal Standard Fail	RC/JU	ReRun
37	P4860-07	PH2-BOT-008	BF140523.D	21 Nov 2024 01:43	Internal Standard Fail	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112024

Review By	yogesh	Review On	11/22/2024 3:51:12 AM		
Supervise By	mohammad	Supervise On	11/22/2024 4:00:42 AM		
SubDirectory	BF112024	HP Acquire Method	BNA_F	HP Processing Method	Bf111324

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	P4916-01	TP-1-WC	BF140524.D	21 Nov 2024 02:09	Internal Standard Fail	RC/JU	ReRun
39	P4916-05	TP-2-WC	BF140525.D	21 Nov 2024 02:35	Internal Standard Fail	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM		
SubDirectory	BF112124	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140526.D	21 Nov 2024 10:17		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140527.D	21 Nov 2024 10:44	A Fresh Calibration is required.	RC/JU	Not Ok
3	SSTDICC2.5	SSTDICC2.5	BF140528.D	21 Nov 2024 11:13		RC/JU	Ok
4	SSTDICC005	SSTDICC005	BF140529.D	21 Nov 2024 11:39	Compound#9,32,41,54,56,65,70 removed from 5 ppm	RC/JU	Ok
5	SSTDICC010	SSTDICC010	BF140530.D	21 Nov 2024 12:05		RC/JU	Ok,M
6	SSTDICC020	SSTDICC020	BF140531.D	21 Nov 2024 12:32	Compound#32,41,54 Kept on LR	RC/JU	Ok,M
7	SSTDICCC040	SSTDICCC040	BF140532.D	21 Nov 2024 12:58	Calibration failed for Benzidine	RC/JU	Ok,M
8	SSTDICC050	SSTDICC050	BF140533.D	21 Nov 2024 13:25	The Calibration is Good For 8270 DOD Except com#77 and good for 625.1 Method Except com#77	RC/JU	Ok
9	SSTDICC060	SSTDICC060	BF140534.D	21 Nov 2024 13:51		RC/JU	Ok
10	SSTDICC080	SSTDICC080	BF140535.D	21 Nov 2024 14:18	Compound#9 removed from 80 ppm	RC/JU	Ok
11	SSTDICV040	ICVBF112124	BF140536.D	21 Nov 2024 15:07		RC/JU	Ok,M
12	PB165144BL	PB165144BL	BF140537.D	21 Nov 2024 15:34		RC/JU	Ok
13	DFTPP	DFTPP	BF140538.D	21 Nov 2024 16:27		RC/JU	Ok
14	SSTDCCC040	SSTDCCC040	BF140539.D	21 Nov 2024 16:54		RC/JU	Ok,M
15	PB165060TB	PB165060TB	BF140540.D	21 Nov 2024 17:20		RC/JU	Ok
16	P4887-06	MH-760	BF140541.D	21 Nov 2024 17:55		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM		
SubDirectory	BF112124	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	P4887-02	MH-739	BF140542.D	21 Nov 2024 18:21		RC/JU	Ok
18	P4870-16	TP-15	BF140543.D	21 Nov 2024 18:48		RC/JU	Ok
19	P4870-15	MH-736	BF140544.D	21 Nov 2024 19:14		RC/JU	Ok
20	P4870-14	MH-735	BF140545.D	21 Nov 2024 19:40		RC/JU	Ok
21	P4870-13	TP-1	BF140546.D	21 Nov 2024 20:07		RC/JU	Ok
22	P4929-02	ARS520	BF140547.D	21 Nov 2024 20:33		RC/JU	Ok
23	P4924-04	MH-4	BF140548.D	21 Nov 2024 20:59		RC/JU	Ok
24	P4921-01	WC-11-A-202411	BF140549.D	21 Nov 2024 21:25		RC/JU	Ok
25	P4916-12	TP-3-WC	BF140550.D	21 Nov 2024 21:51		RC/JU	Ok
26	P4916-08	TP-2-WC	BF140551.D	21 Nov 2024 22:18		RC/JU	Ok
27	P4916-04	TP-1-WC	BF140552.D	21 Nov 2024 22:44		RC/JU	Ok
28	P4887-01	MH-739	BF140553.D	21 Nov 2024 23:10		RC/JU	Ok
29	P4916-09	TP-3-WC	BF140554.D	21 Nov 2024 23:36		RC/JU	Ok
30	P4916-09MS	TP-3-WCMS	BF140555.D	22 Nov 2024 00:02		RC/JU	Ok,M
31	P4916-09MSD	TP-3-WCMSD	BF140556.D	22 Nov 2024 00:28		RC/JU	Ok,M
32	P4916-01	TP-1-WC	BF140557.D	22 Nov 2024 00:54		RC/JU	Ok
33	P4916-05RE	TP-2-WCRE	BF140558.D	22 Nov 2024 01:21	Internal Standard Fail	RC/JU	Confirms
34	P4887-05RE	MH-760RE	BF140559.D	22 Nov 2024 01:47	Internal Standard Fail	RC/JU	Confirms
35	P4924-01	MH-4	BF140560.D	22 Nov 2024 02:13	Internal Standard Fail	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112124

Review By	yogesh	Review On	11/22/2024 3:53:36 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:00 AM		
SubDirectory	BF112124	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12329,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

36	P4936-01	PL-01-11202024	BF140561.D	22 Nov 2024 02:39	Internal Standard Fail	RC/JU	Ok,M
37	P4929-01	ARS520	BF140562.D	22 Nov 2024 03:06	Internal Standard Fail	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM		
SubDirectory	BF112524	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF140589.D	25 Nov 2024 09:07		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140590.D	25 Nov 2024 09:33		RC/JU	Ok,M
3	PB165123TB	PB165123TB	BF140591.D	25 Nov 2024 09:59		RC/JU	Ok
4	PB165155BS	PB165155BS	BF140592.D	25 Nov 2024 10:25		RC/JU	Ok,M
5	PB165155BL	PB165155BL	BF140593.D	25 Nov 2024 10:51		RC/JU	Ok
6	PB165086BS	PB165086BS	BF140594.D	25 Nov 2024 11:17		RC/JU	Ok,M
7	PB165111TB	PB165111TB	BF140595.D	25 Nov 2024 11:43		RC/JU	Ok
8	PB165052BS	PB165052BS	BF140596.D	25 Nov 2024 12:09		RC/JU	Ok,M
9	PB164986TB	PB164986TB	BF140597.D	25 Nov 2024 12:36		RC/JU	Ok
10	PB165152BS	PB165152BS	BF140598.D	25 Nov 2024 13:02		RC/JU	Ok,M
11	PB164886TB	PB164886TB	BF140599.D	25 Nov 2024 13:27		RC/JU	Ok
12	PB165152BSD	PB165152BSD	BF140600.D	25 Nov 2024 13:54		RC/JU	Ok,M
13	PB165152BL	PB165152BL	BF140601.D	25 Nov 2024 14:28		RC/JU	Ok
14	PB165185BS	PB165185BS	BF140602.D	25 Nov 2024 14:54		RC/JU	Ok,M
15	DFTPP	DFTPP	BF140603.D	25 Nov 2024 15:23		RC/JU	Ok
16	SSTDCCC040	SSTDCCC040	BF140604.D	25 Nov 2024 15:49		RC/JU	Ok,M
17	PB165052BL	PB165052BL	BF140605.D	25 Nov 2024 16:17		RC/JU	Ok
18	P4947-01	A3988	BF140606.D	25 Nov 2024 16:49		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM		
SubDirectory	BF112524	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4892-04	WB-310-SW	BF140607.D	25 Nov 2024 17:15		RC/JU	Ok
20	P4860-09	PH2-BOT-006	BF140608.D	25 Nov 2024 17:41		RC/JU	Ok
21	P4860-01	DUP-01	BF140609.D	25 Nov 2024 18:07		RC/JU	Ok
22	P4960-01	B1	BF140610.D	25 Nov 2024 18:34		RC/JU	Ok
23	P4960-05	SW3	BF140611.D	25 Nov 2024 19:00		RC/JU	Ok
24	P4892-03	WB-310-BOT	BF140612.D	25 Nov 2024 19:26		RC/JU	Ok
25	P4892-03MS	WB-310-BOTMS	BF140613.D	25 Nov 2024 19:52		RC/JU	Ok,M
26	P4892-03MSD	WB-310-BOTMSD	BF140614.D	25 Nov 2024 20:18		RC/JU	Ok,M
27	P4860-06	PH2-BOT-009	BF140615.D	25 Nov 2024 20:45		RC/JU	Ok
28	P4860-09MS	PH2-BOT-006MS	BF140616.D	25 Nov 2024 21:11	MSD Not Ok	RC/JU	Not Ok
29	P4860-09MSD	PH2-BOT-006MSD	BF140617.D	25 Nov 2024 21:37	Internal Standard Fail	RC/JU	Not Ok
30	P4960-03	SW1	BF140618.D	25 Nov 2024 22:03	Internal Standard Fail	RC/JU	ReRun
31	P4860-10	PH2-BOT-005	BF140619.D	25 Nov 2024 22:29	Internal Standard Fail	RC/JU	ReRun
32	P4860-04	PH2-BOT-003	BF140620.D	25 Nov 2024 22:55		RC/JU	Ok
33	P4860-07	PH2-BOT-008	BF140621.D	25 Nov 2024 23:22		RC/JU	Ok
34	P4860-03	PH2-BOT-002	BF140622.D	25 Nov 2024 23:48		RC/JU	Ok
35	P4951-01	AU-05-112124	BF140623.D	26 Nov 2024 00:14	Internal Standard Fail	RC/JU	ReRun
36	P4954-01	TR-05-112124	BF140624.D	26 Nov 2024 00:40	Internal Standard Fail	RC/JU	Ok,M
37	P4954-01MS	TR-05-112124MS	BF140625.D	26 Nov 2024 01:06	Internal Standard Fail	RC/JU	Ok,M

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

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF112524

Review By	yogesh	Review On	11/27/2024 5:27:46 AM		
Supervise By	mohammad	Supervise On	11/27/2024 6:04:35 AM		
SubDirectory	BF112524	HP Acquire Method	BNA_F	HP Processing Method	bf112124

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12330,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

38	P4954-01MSD	TR-05-112124MSD	BF140626.D	26 Nov 2024 01:32	Internal Standard Fail	RC/JU	Ok,M
39	P4954-03	TR-06-112124	BF140627.D	26 Nov 2024 01:58	Internal Standard Fail	RC/JU	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB165086

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 : 11/19/2024

Extraction Start Time : 09:00

Extraction End Date : 11/19/2024

Extraction End Time : 12:00

Concentration By: EH

Supervisor By : rajesh

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	SP6630
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	EP2560
Baked Na2SO4	N/A	EP2562
Sand	N/A	E2865
Methylene Chloride	N/A	E3829
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/19/24	RP (Lab)	AC/SVOC
12:05	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165086

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 11/19/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165086BL	SBLK086	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			U5-1
PB165086BS	SLCS086	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1			2
P4892-01	WB-310-TOP	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		3
P4892-02	WB-310-BOT	SVOC-TCL BNA -20	30.09	N/A	ritesh	Evelyn	1	E		4
P4892-02MS	WB-310-BOTMS	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		5
P4892-02MSD	WB-310-BOTMSD	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1	E		6
P4893-01	MH-763	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	B		U1-1
P4893-05	MH-762	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	B		2
P4908-01	SP-1	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	E		3
P4908-03	SP-2	SVOC-TCL BNA -20	50.08	N/A	ritesh	Evelyn	1	E		4
P4909-01	BU-02-111824	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	B		5
P4910-01	MH-COTTAGE	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	B		6
P4910-05	MH-759	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	B		U6-1

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

11/19/24

165086
8:00

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p4892 **WorkList ID :** 185552 **Department :** Extraction **Date :** 11-19-2024 08:23:19

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4892-01	WB-310-TOP	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	M11	11/15/2024	8270E
P4892-02	WB-310-BOT	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	M11	11/15/2024	8270E
P4893-01	MH-763	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L51	11/16/2024	8270E
P4893-05	MH-762	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L51	11/16/2024	8270E
P4908-01	SP-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L51	11/18/2024	8270E
P4908-03	SP-2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L51	11/18/2024	8270E
P4909-01	BU-02-111824	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L51	11/18/2024	8270E
P4910-01	MH-COTTAGE	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	L51	11/18/2024	8270E
P4910-05	MH-759	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L61	11/18/2024	8270E
					PSEG03	L61	11/18/2024	8270E

Date/Time 11/19/24 8:55
Raw Sample Received by: RJ (Sig. lost)
Raw Sample Relinquished by: CR SM

Date/Time 11/19/24 9:25
Raw Sample Received by: CR SM
Raw Sample Relinquished by: RJ (Sig. lost)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB165152

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 11/20/2024

Extraction Start Time : 08:29

Extraction End Date : 11/20/2024

Extraction End Time : 13:25

Concentration By: EH

Supervisor By : rajesh

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	SP6681
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	E3829
Baked Na2SO4	N/A	EP2562
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
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673. p H Adjusted<2 with 1:1 H2SO4 &>11 with 10N NaOH. P4892-04 Limited volume recd.

KD Bath ID: Water bath -01,02

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
11/20/24	RJ (Ext Lab)	AC/SVOC
13:30	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB165152

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 11/20/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB165152BL	SBLK152	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			SEP-01
PB165152BS	SLCS152	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			2
PB165152BSD	SLCSD152	SVOC-TCL BNA -20	1000	6	RUPESH	rajesh	1			3
P4892-04	WB-310-SW	SVOC-TCL BNA -20	485	6	RUPESH	rajesh	0.5	E		4

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

11/20/24

105152
8:29 AM

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4892S **WorkList ID :** 185628 **Department :** Extraction **Date :** 11-20-2024 08:15:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4892-04	WB-310-SW	Water	EPH	1:1 HCl to pH < 2	PORT06	M11	11/15/2024	NJEPH
P4892-04	WB-310-SW	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	M11	11/15/2024	8270E

Date/Time 11/20/24 8:25
Raw Sample Received by: RS (Stellar Labs)
Raw Sample Relinquished by: JDCSM

Date/Time 11/20/24 8:45
Raw Sample Received by: JDCSM
Raw Sample Relinquished by: RS (Stellar Labs)

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

LAB CHRONICLE

OrderID:	P4892	**OrderDate:**	11/18/2024 8:10:00 AM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	M11,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4892-01	**WB-310-TOP**	**SOIL**			**11/15/24**			**11/15/24**
			SVOC-TCL BNA -20	8270E		11/19/24	11/20/24	
P4892-02	**WB-310-BOT**	**SOIL**			**11/15/24**			**11/15/24**
			SVOC-TCL BNA -20	8270E		11/19/24	11/20/24	
P4892-04	**WB-310-SW**	**Water**			**11/15/24**			**11/15/24**
			SVOC-TCL BNA -20	8270E		11/20/24	11/25/24	