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

Hit Summary Sheet
SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**B-180-SB01**								
P4471-01	B-180-SB01	SOIL	2-Pentanone, 4-hydroxy-4-methyl	*	210.000	AB	0	0	ug/Kg
P4471-01	B-180-SB01	SOIL	Benzophenone	*	200.000	J	0	0	ug/Kg
P4471-01	B-180-SB01	SOIL	Butane, 2-methoxy-2-methyl-	*	2,200.000	JB	0	0	ug/Kg
P4471-01	B-180-SB01	SOIL	n-Hexadecanoic acid	*	260.000	J	0	0	ug/Kg
P4471-01	B-180-SB01	SOIL	Trifluoroacetoxy hexadecane	*	160.000	J	0	0	ug/Kg
			Total Tics :		**3,030.00**				
			Total Concentration:		**3,030.00**				
Client ID :	**B-180-SB02**								
P4471-02	B-180-SB02	SOIL	.alpha.-Pinene	*	6,600.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	.gamma.-Sitosterol	*	480.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	1,2-15,16-Diepoxyhexadecane	*	3,100.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	1,21-Docosadiene	*	420.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	1,4-Dimethyl-8-isopropylidenetric	*	700.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	9(1H)-Phenanthrenone, 2,3,4,4a,1	*	830.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Bicyclo[2.2.1]heptan-2-one, 1,7,7-	*	1,200.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Butane, 2-methoxy-2-methyl-	*	3,400.000	JB	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Camphene	*	400.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Dehydroabietic acid	*	400.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Docosanoic acid	*	420.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	endo-Borneol	*	470.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Fenchol	*	510.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Heptadecyl heptafluorobutyrate	*	910.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Hexacosane	*	400.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	n-Hexadecanoic acid	*	710.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Octadecyl trifluoroacetate	*	1,100.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	p-Cymene	*	1,000.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	Terpinen-4-ol	*	550.000	J	0	0	ug/Kg
P4471-02	B-180-SB02	SOIL	unknown13.533	*	370.000	J	0	0	ug/Kg
			Total Tics :		**23,970.00**				
			Total Concentration:		**23,970.00**				

SAMPLE DATA

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/19/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB01	SDG No.:	P4471
Lab Sample ID:	P4471-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.8
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
BF140011.D	1	10/22/24 10:44	10/24/24 20:08	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	220	U	220	400	ug/Kg
108-95-2	Phenol	99.9	U	99.9	200	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	100	U	100	200	ug/Kg
95-57-8	2-Chlorophenol	100	U	100	200	ug/Kg
95-48-7	2-Methylphenol	97.1	U	97.1	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	96.2	U	96.2	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	48.6	U	48.6	96.4	ug/Kg
67-72-1	Hexachloroethane	100	U	100	200	ug/Kg
98-95-3	Nitrobenzene	110	U	110	200	ug/Kg
78-59-1	Isophorone	100	U	100	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	100	U	100	200	ug/Kg
120-83-2	2,4-Dichlorophenol	91.0	U	91.0	200	ug/Kg
91-20-3	Naphthalene	99.6	U	99.6	200	ug/Kg
106-47-8	4-Chloroaniline	99.6	U	99.6	200	ug/Kg
87-68-3	Hexachlorobutadiene	100	U	100	200	ug/Kg
105-60-2	Caprolactam	100	U	100	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	93.4	U	93.4	200	ug/Kg
91-57-6	2-Methylnaphthalene	99.4	U	99.4	200	ug/Kg
77-47-4	Hexachlorocyclopentadiene	190	UQ	190	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	86.1	U	86.1	200	ug/Kg
95-95-4	2,4,5-Trichlorophenol	89.2	U	89.2	200	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	200	ug/Kg
91-58-7	2-Chloronaphthalene	100	U	100	200	ug/Kg
88-74-4	2-Nitroaniline	110	U	110	200	ug/Kg
131-11-3	Dimethylphthalate	98.5	U	98.5	200	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/19/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB01	SDG No.:	P4471
Lab Sample ID:	P4471-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.8
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
BF140011.D	1	10/22/24 10:44	10/24/24 20:08	PB164312

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	100	U	100	200	ug/Kg
99-09-2	3-Nitroaniline	110	U	110	200	ug/Kg
83-32-9	Acenaphthene	97.8	U	97.8	200	ug/Kg
51-28-5	2,4-Dinitrophenol	290	U	290	400	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	400	ug/Kg
132-64-9	Dibenzofuran	100	U	100	200	ug/Kg
121-14-2	2,4-Dinitrotoluene	100	U	100	200	ug/Kg
84-66-2	Diethylphthalate	96.5	U	96.5	200	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	100	U	100	200	ug/Kg
86-73-7	Fluorene	100	U	100	200	ug/Kg
100-01-6	4-Nitroaniline	130	U	130	200	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	UQ	140	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	98.4	U	98.4	200	ug/Kg
101-55-3	4-Bromophenyl-phenylether	95.1	U	95.1	200	ug/Kg
118-74-1	Hexachlorobenzene	100	U	100	200	ug/Kg
1912-24-9	Atrazine	110	U	110	200	ug/Kg
87-86-5	Pentachlorophenol	93.2	U	93.2	400	ug/Kg
85-01-8	Phenanthrene	100	U	100	200	ug/Kg
120-12-7	Anthracene	100	U	100	200	ug/Kg
86-74-8	Carbazole	96.8	U	96.8	200	ug/Kg
84-74-2	Di-n-butylphthalate	100	U	100	200	ug/Kg
206-44-0	Fluoranthene	98.5	U	98.5	200	ug/Kg
129-00-0	Pyrene	100	U	100	200	ug/Kg
85-68-7	Butylbenzylphthalate	120	U	120	200	ug/Kg
91-94-1	3,3-Dichlorobenzidine	120	U	120	400	ug/Kg
56-55-3	Benzo(a)anthracene	97.3	U	97.3	200	ug/Kg
218-01-9	Chrysene	95.8	U	95.8	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	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	97.8	U	97.8	200	ug/Kg

Raw Data: **BF140011.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/19/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB01	SDG No.:	P4471
Lab Sample ID:	P4471-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.8
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
BF140011.D	1	10/22/24 10:44	10/24/24 20:08	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	99.6	U	99.6	200	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	200	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	94.1	U	94.1	200	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	97.9	U	97.9	200	ug/Kg
191-24-2	Benzo(g,h,i)perylene	96.5	U	96.5	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	90.0	U	90.0	200	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	97.1		30 (18) - 130 (112)	65%	SPK: 150
13127-88-3	Phenol-d6	93.5		30 (15) - 130 (107)	62%	SPK: 150
4165-60-0	Nitrobenzene-d5	75.8		30 (18) - 130 (107)	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.3		30 (20) - 130 (109)	75%	SPK: 100
118-79-6	2,4,6-Tribromophenol	104		30 (10) - 130 (116)	69%	SPK: 150
1718-51-0	Terphenyl-d14	68.2		30 (10) - 130 (105)	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	82700	6.886			
1146-65-2	Naphthalene-d8	316000	8.169			
15067-26-2	Acenaphthene-d10	171000	9.922			
1517-22-2	Phenanthrene-d10	285000	11.41			
1719-03-5	Chrysene-d12	150000	14.045			
1520-96-3	Perylene-d12	184000	15.527			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	2200	JB		2.19	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	210	AB		5.12	ug/Kg
000119-61-9	Benzophenone	200	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	260	J		11.9	ug/Kg
006222-03-3	Trifluoroacetoxy hexadecane	160	J		13.9	ug/Kg

Raw Data: **BF140011.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/19/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB01	SDG No.:	P4471
Lab Sample ID:	P4471-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.8
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
BF140011.D	1	10/22/24 10:44	10/24/24 20:08	PB164312

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/20/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB02	SDG No.:	P4471
Lab Sample ID:	P4471-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	49.2
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
BF140064.D	1	10/22/24 10:44	10/26/24 17:16	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	370	U	370	670	ug/Kg
108-95-2	Phenol	170	U	170	350	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	170	U	170	350	ug/Kg
95-57-8	2-Chlorophenol	170	U	170	350	ug/Kg
95-48-7	2-Methylphenol	160	U	160	350	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	180	U	180	350	ug/Kg
98-86-2	Acetophenone	180	U	180	350	ug/Kg
65794-96-9	3+4-Methylphenols	160	U	160	670	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	81.9	U	81.9	160	ug/Kg
67-72-1	Hexachloroethane	170	U	170	350	ug/Kg
98-95-3	Nitrobenzene	180	U	180	350	ug/Kg
78-59-1	Isophorone	170	U	170	350	ug/Kg
88-75-5	2-Nitrophenol	190	U	190	350	ug/Kg
105-67-9	2,4-Dimethylphenol	190	U	190	350	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	170	U	170	350	ug/Kg
120-83-2	2,4-Dichlorophenol	150	U	150	350	ug/Kg
91-20-3	Naphthalene	170	U	170	350	ug/Kg
106-47-8	4-Chloroaniline	170	U	170	350	ug/Kg
87-68-3	Hexachlorobutadiene	170	U	170	350	ug/Kg
105-60-2	Caprolactam	180	U	180	670	ug/Kg
59-50-7	4-Chloro-3-methylphenol	160	U	160	350	ug/Kg
91-57-6	2-Methylnaphthalene	170	U	170	350	ug/Kg
77-47-4	Hexachlorocyclopentadiene	320	UQ	320	670	ug/Kg
88-06-2	2,4,6-Trichlorophenol	150	U	150	350	ug/Kg
95-95-4	2,4,5-Trichlorophenol	150	U	150	350	ug/Kg
92-52-4	1,1-Biphenyl	180	U	180	350	ug/Kg
91-58-7	2-Chloronaphthalene	170	U	170	350	ug/Kg
88-74-4	2-Nitroaniline	190	U	190	350	ug/Kg
131-11-3	Dimethylphthalate	170	U	170	350	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/20/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB02	SDG No.:	P4471
Lab Sample ID:	P4471-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	49.2
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
BF140064.D	1	10/22/24 10:44	10/26/24 17:16	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	180	U	180	350	ug/Kg
606-20-2	2,6-Dinitrotoluene	170	U	170	350	ug/Kg
99-09-2	3-Nitroaniline	180	U	180	350	ug/Kg
83-32-9	Acenaphthene	160	U	160	350	ug/Kg
51-28-5	2,4-Dinitrophenol	490	U	490	670	ug/Kg
100-02-7	4-Nitrophenol	240	U	240	670	ug/Kg
132-64-9	Dibenzofuran	170	U	170	350	ug/Kg
121-14-2	2,4-Dinitrotoluene	180	U	180	350	ug/Kg
84-66-2	Diethylphthalate	160	U	160	350	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	170	U	170	350	ug/Kg
86-73-7	Fluorene	170	U	170	350	ug/Kg
100-01-6	4-Nitroaniline	220	U	220	350	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	240	UQ	240	670	ug/Kg
86-30-6	n-Nitrosodiphenylamine	170	U	170	350	ug/Kg
101-55-3	4-Bromophenyl-phenylether	160	U	160	350	ug/Kg
118-74-1	Hexachlorobenzene	170	U	170	350	ug/Kg
1912-24-9	Atrazine	190	U	190	350	ug/Kg
87-86-5	Pentachlorophenol	160	U	160	670	ug/Kg
85-01-8	Phenanthrene	170	U	170	350	ug/Kg
120-12-7	Anthracene	170	U	170	350	ug/Kg
86-74-8	Carbazole	160	U	160	350	ug/Kg
84-74-2	Di-n-butylphthalate	170	U	170	350	ug/Kg
206-44-0	Fluoranthene	170	U	170	350	ug/Kg
129-00-0	Pyrene	170	U	170	350	ug/Kg
85-68-7	Butylbenzylphthalate	200	U	200	350	ug/Kg
91-94-1	3,3-Dichlorobenzidine	200	U	200	670	ug/Kg
56-55-3	Benzo(a)anthracene	160	U	160	350	ug/Kg
218-01-9	Chrysene	160	U	160	350	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	180	U	180	350	ug/Kg
117-84-0	Di-n-octyl phthalate	220	U	220	670	ug/Kg
205-99-2	Benzo(b)fluoranthene	160	U	160	350	ug/Kg

Raw Data: **BF140064.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/20/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB02	SDG No.:	P4471
Lab Sample ID:	P4471-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	49.2
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
BF140064.D	1	10/22/24 10:44	10/26/24 17:16	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	170	U	170	350	ug/Kg
50-32-8	Benzo(a)pyrene	190	U	190	350	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	160	U	160	350	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	160	U	160	350	ug/Kg
191-24-2	Benzo(g,h,i)perylene	160	U	160	350	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	180	U	180	350	ug/Kg
123-91-1	1,4-Dioxane	220	U	220	350	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	150	U	150	350	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	84.0		30 (18) - 130 (112)	56%	SPK: 150
13127-88-3	Phenol-d6	81.8		30 (15) - 130 (107)	55%	SPK: 150
4165-60-0	Nitrobenzene-d5	67.2		30 (18) - 130 (107)	67%	SPK: 100
321-60-8	2-Fluorobiphenyl	52.1		30 (20) - 130 (109)	52%	SPK: 100
118-79-6	2,4,6-Tribromophenol	83.0		30 (10) - 130 (116)	55%	SPK: 150
1718-51-0	Terphenyl-d14	41.0		30 (10) - 130 (105)	41%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	141000	6.887			
1146-65-2	Naphthalene-d8	539000	8.169			
15067-26-2	Acenaphthene-d10	296000	9.922			
1517-22-2	Phenanthrene-d10	471000	11.41			
1719-03-5	Chrysene-d12	239000	14.045			
1520-96-3	Perylene-d12	267000	15.527			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	3400	JB		2.22	ug/Kg
000080-56-8	.alpha.-Pinene	6600	J		6.17	ug/Kg
000079-92-5	Camphene	400	J		6.34	ug/Kg
000099-87-6	p-Cymene	1000	J		6.96	ug/Kg
001632-73-1	Fenchol	510	J		7.70	ug/Kg
000464-48-2	Bicyclo[2.2.1]heptan-2-one, 1,7,7-	1200	J		7.92	ug/Kg
000507-70-0	endo-Borneol	470	J		8.07	ug/Kg

Raw Data: **BF140064.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/20/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	B-180-SB02	SDG No.:	P4471
Lab Sample ID:	P4471-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	49.2
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
BF140064.D	1	10/22/24 10:44	10/26/24 17:16	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
000562-74-3	Terpinen-4-ol	550	J		8.11	ug/Kg
000057-10-3	n-Hexadecanoic acid	710	J		11.9	ug/Kg
	unknown13.533	370	J		13.5	ug/Kg
053057-53-7	1,21-Docosadiene	420	J		13.7	ug/Kg
001740-19-8	Dehydroabietic acid	400	J		13.8	ug/Kg
959085-66-6	Heptadecyl heptafluorobutyrate	910	J		13.9	ug/Kg
000112-85-6	Docosanoic acid	420	J		14.1	ug/Kg
079392-43-1	Octadecyl trifluoroacetate	1100	J		14.5	ug/Kg
000630-01-3	Hexacosane	400	J		15.2	ug/Kg
000083-47-6	.gamma.-Sitosterol	480	J		17.6	ug/Kg
000511-05-7	9(1H)-Phenanthrenone, 2,3,4,4a,10,	830	J		17.7	ug/Kg
1010140-07-7	1,4-Dimethyl-8-isopropylidenetricy	700	J		18.0	ug/Kg
1000192-65-0	1,2-15,16-Diepoxyhexadecane	3100	J		18.2	ug/Kg

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

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

QC SUMMARY

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

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4467-01MS	TP-1MS	2-Fluorophenol	150	83.4	56		30 (18)	130 (112)
		Phenol-d6	150	81.7	54		30 (15)	130 (107)
		Nitrobenzene-d5	100	61.8	62		30 (18)	130 (107)
		2-Fluorobiphenyl	100	58.9	59		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	96.0	64		30 (10)	130 (116)
		Terphenyl-d14	100	55.7	56		30 (10)	130 (105)
P4467-01MSD	TP-1MSD	2-Fluorophenol	150	94.9	63		30 (18)	130 (112)
		Phenol-d6	150	92.7	62		30 (15)	130 (107)
		Nitrobenzene-d5	100	70.6	71		30 (18)	130 (107)
		2-Fluorobiphenyl	100	68.2	68		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	110	74		30 (10)	130 (116)
		Terphenyl-d14	100	64.9	65		30 (10)	130 (105)
P4471-01	B-180-SB01	2-Fluorophenol	150	97.1	65		30 (18)	130 (112)
		Phenol-d6	150	93.5	62		30 (15)	130 (107)
		Nitrobenzene-d5	100	75.8	76		30 (18)	130 (107)
		2-Fluorobiphenyl	100	75.3	75		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	104	69		30 (10)	130 (116)
		Terphenyl-d14	100	68.2	68		30 (10)	130 (105)
P4471-02	B-180-SB02	2-Fluorophenol	150	84.0	56		30 (18)	130 (112)
		Phenol-d6	150	81.8	55		30 (15)	130 (107)
		Nitrobenzene-d5	100	67.2	67		30 (18)	130 (107)
		2-Fluorobiphenyl	100	52.1	52		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	83.0	55		30 (10)	130 (116)
		Terphenyl-d14	100	41.0	41		30 (10)	130 (105)
PB164312BL	PB164312BL	2-Fluorophenol	150	131	87		30 (18)	130 (112)
		Phenol-d6	150	126	84		30 (15)	130 (107)
		Nitrobenzene-d5	100	96.5	96		30 (18)	130 (107)
		2-Fluorobiphenyl	100	93.3	93		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	158	105		30 (10)	130 (116)
		Terphenyl-d14	100	92.9	93		30 (10)	130 (105)
PB164312BS	PB164312BS	2-Fluorophenol	150	129	86		30 (18)	130 (112)
		Phenol-d6	150	126	84		30 (15)	130 (107)
		Nitrobenzene-d5	100	99.4	99		30 (18)	130 (107)
		2-Fluorobiphenyl	100	93.9	94		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	157	104		30 (10)	130 (116)
		Terphenyl-d14	100	105	105		30 (10)	130 (105)

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4471

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: P4467-01MS		**Client Sample ID: TP-1MS**						**DataFile: BF140004.D**			
Benzaldehyde	1100	0	290	ug/Kg	26				20 (10)	160 (86)	
Phenol	1100	0	960	ug/Kg	87				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	1100	0	950	ug/Kg	86				70 (54)	130 (125)	
2-Chlorophenol	1100	0	990	ug/Kg	90				70 (79)	130 (107)	
2-Methylphenol	1100	0	960	ug/Kg	87				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	1100	0	910	ug/Kg	83				70 (65)	130 (110)	
Acetophenone	1100	0	950	ug/Kg	86				70 (75)	130 (111)	
3+4-Methylphenols	1100	0	920	ug/Kg	84				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	1100	0	930	ug/Kg	85				70 (59)	130 (119)	
Hexachloroethane	1100	0	940	ug/Kg	85				20 (65)	160 (117)	
Nitrobenzene	1100	0	930	ug/Kg	85				70 (70)	130 (119)	
Isophorone	1100	0	970	ug/Kg	88				70 (76)	130 (122)	
2-Nitrophenol	1100	0	1200	ug/Kg	109				70 (54)	130 (145)	
2,4-Dimethylphenol	1100	0	1100	ug/Kg	100				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	1100	0	950	ug/Kg	86				70 (68)	130 (112)	
2,4-Dichlorophenol	1100	0	1000	ug/Kg	91				70 (72)	130 (118)	
Naphthalene	1100	0	950	ug/Kg	86				70 (72)	130 (110)	
4-Chloroaniline	1100	0	350	ug/Kg	32	*			70 (10)	130 (91)	
Hexachlorobutadiene	1100	0	970	ug/Kg	88				70 (66)	130 (114)	
Caprolactam	1100	0	990	ug/Kg	90				20 (51)	160 (134)	
4-Chloro-3-methylphenol	1100	0	960	ug/Kg	87				70 (57)	130 (132)	
2-Methylnaphthalene	1100	0	970	ug/Kg	88				70 (59)	130 (123)	
Hexachlorocyclopentadiene	2200	0	3500	ug/Kg	159				20 (10)	160 (175)	
2,4,6-Trichlorophenol	1100	0	1000	ug/Kg	91				70 (72)	130 (117)	
2,4,5-Trichlorophenol	1100	0	990	ug/Kg	90				70 (72)	130 (117)	
1,1-Biphenyl	1100	0	980	ug/Kg	89				70 (75)	130 (113)	
2-Chloronaphthalene	1100	0	960	ug/Kg	87				70 (67)	130 (118)	
2-Nitroaniline	1100	0	1100	ug/Kg	100				70 (69)	130 (127)	
Dimethylphthalate	1100	0	1000	ug/Kg	91				70 (70)	130 (113)	
Acenaphthylene	1100	0	1000	ug/Kg	91				70 (79)	130 (118)	
2,6-Dinitrotoluene	1100	0	1000	ug/Kg	91				70 (70)	130 (125)	
3-Nitroaniline	1100	0	660	ug/Kg	60	*			70 (30)	130 (99)	
Acenaphthene	1100	0	1100	ug/Kg	100				70 (70)	130 (121)	
2,4-Dinitrophenol	2200	0	2200	ug/Kg	100				20 (10)	160 (155)	
4-Nitrophenol	2200	0	2000	ug/Kg	91				20 (45)	160 (133)	
Dibenzofuran	1100	0	980	ug/Kg	89				70 (72)	130 (110)	
2,4-Dinitrotoluene	1100	0	1100	ug/Kg	100				70 (55)	130 (128)	
Diethylphthalate	1100	0	990	ug/Kg	90				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	1100	0	980	ug/Kg	89				70 (71)	130 (108)	
Fluorene	1100	0	960	ug/Kg	87				70 (68)	130 (116)	
4-Nitroaniline	1100	0	1000	ug/Kg	91				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	1100	0	1300	ug/Kg	118				70 (10)	130 (160)	
N-Nitrosodiphenylamine	1100	0	1000	ug/Kg	91				70 (73)	130 (118)	
4-Bromophenyl-phenylether	1100	0	1000	ug/Kg	91				70 (65)	130 (121)	
Hexachlorobenzene	1100	0	1000	ug/Kg	91				70 (67)	130 (118)	
Atrazine	1100	0	1200	ug/Kg	109				70 (79)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4471

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	2200	0	1800	ug/Kg	82				20 (47)	160 (128)	
Phenanthrene	1100	0	980	ug/Kg	89				70 (52)	130 (128)	
Anthracene	1100	0	1000	ug/Kg	91				70 (62)	130 (124)	
Carbazole	1100	0	910	ug/Kg	83				70 (59)	130 (119)	
Di-n-butylphthalate	1100	0	1000	ug/Kg	91				70 (69)	130 (118)	
Fluoranthene	1100	0	860	ug/Kg	78				70 (44)	130 (125)	
Pyrene	1100	0	910	ug/Kg	83				70 (26)	130 (142)	
Butylbenzylphthalate	1100	0	1200	ug/Kg	109				70 (64)	130 (126)	
3,3-Dichlorobenzidine	1100	0	780	ug/Kg	71				70 (33)	130 (116)	
Benzo(a)anthracene	1100	0	1000	ug/Kg	91				70 (71)	130 (114)	
Chrysene	1100	0	980	ug/Kg	89				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	1100	0	1300	ug/Kg	118				70 (42)	130 (169)	
Di-n-octyl phthalate	1100	0	1200	ug/Kg	109				70 (23)	130 (175)	
Benzo(b)fluoranthene	1100	0	880	ug/Kg	80				70 (67)	130 (121)	
Benzo(k)fluoranthene	1100	0	1000	ug/Kg	91				70 (57)	130 (134)	
Benzo(a)pyrene	1100	0	1100	ug/Kg	100				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	1100	0	1000	ug/Kg	91				70 (40)	130 (129)	
Dibenz(a,h)anthracene	1100	0	1000	ug/Kg	91				70 (43)	130 (123)	
Benzo(g,h,i)perylene	1100	0	870	ug/Kg	79				70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	1100	0	990	ug/Kg	90				70 (69)	130 (124)	
1,4-Dioxane	1100	0	840	ug/Kg	76				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	1100	0	1000	ug/Kg	91				70 (69)	130 (112)	

( ) = LABORATORY INHOUSE LIMIT

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4471

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: P4467-01MSD		**Client Sample ID: TP-1MSD**						**DataFile: BF140005.D**			
Benzaldehyde	1100	0	340	ug/Kg	31		18		20 (10)	160 (86)	30 (20)
Phenol	1100	0	1100	ug/Kg	100		14		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	1100	0	1100	ug/Kg	100		15		70 (54)	130 (125)	30 (20)
2-Chlorophenol	1100	0	1100	ug/Kg	100		11		70 (79)	130 (107)	30 (20)
2-Methylphenol	1100	0	1100	ug/Kg	100		14		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	1100	0	1000	ug/Kg	91		9		70 (65)	130 (110)	30 (20)
Acetophenone	1100	0	1100	ug/Kg	100		15		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	1100	0	1100	ug/Kg	100		17		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	1100	0	1100	ug/Kg	100		16		70 (59)	130 (119)	30 (20)
Hexachloroethane	1100	0	1100	ug/Kg	100		16		20 (65)	160 (117)	30 (20)
Nitrobenzene	1100	0	1100	ug/Kg	100		16		70 (70)	130 (119)	30 (20)
Isophorone	1100	0	1100	ug/Kg	100		13		70 (76)	130 (122)	30 (20)
2-Nitrophenol	1100	0	1400	ug/Kg	127		15		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	1100	0	1300	ug/Kg	118		17		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	1100	0	1100	ug/Kg	100		15		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	1100	0	1100	ug/Kg	100		9		70 (72)	130 (118)	30 (20)
Naphthalene	1100	0	1100	ug/Kg	100		15		70 (72)	130 (110)	30 (20)
4-Chloroaniline	1100	0	390	ug/Kg	35	*	9		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	1100	0	1100	ug/Kg	100		13		70 (66)	130 (114)	30 (20)
Caprolactam	1100	0	1100	ug/Kg	100		11		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	1100	0	1100	ug/Kg	100		14		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	1100	0	1100	ug/Kg	100		13		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	2200	0	4000	ug/Kg	182	*	13		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	1100	0	1200	ug/Kg	109		18		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	1100	0	1100	ug/Kg	100		11		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	1100	0	1100	ug/Kg	100		12		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	1100	0	1100	ug/Kg	100		14		70 (67)	130 (118)	30 (20)
2-Nitroaniline	1100	0	1200	ug/Kg	109		9		70 (69)	130 (127)	30 (20)
Dimethylphthalate	1100	0	1200	ug/Kg	109		18		70 (70)	130 (113)	30 (20)
Acenaphthylene	1100	0	1200	ug/Kg	109		18		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	1100	0	1200	ug/Kg	109		18		70 (70)	130 (125)	30 (20)
3-Nitroaniline	1100	0	750	ug/Kg	68	*	13		70 (30)	130 (99)	30 (20)
Acenaphthene	1100	0	1200	ug/Kg	109		9		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	2200	0	2400	ug/Kg	109		9		20 (10)	160 (155)	30 (20)
4-Nitrophenol	2200	0	2300	ug/Kg	105		14		20 (45)	160 (133)	30 (20)
Dibenzofuran	1100	0	1100	ug/Kg	100		12		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	1100	0	1300	ug/Kg	118		17		70 (55)	130 (128)	30 (20)
Diethylphthalate	1100	0	1100	ug/Kg	100		11		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	1100	0	1100	ug/Kg	100		12		70 (71)	130 (108)	30 (20)
Fluorene	1100	0	1100	ug/Kg	100		14		70 (68)	130 (116)	30 (20)
4-Nitroaniline	1100	0	1200	ug/Kg	109		18		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	1100	0	1500	ug/Kg	136	*	14		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	1100	0	1200	ug/Kg	109		18		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	1100	0	1200	ug/Kg	109		18		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	1100	0	1200	ug/Kg	109		18		70 (67)	130 (118)	30 (20)
Atrazine	1100	0	1400	ug/Kg	127		15		70 (79)	130 (127)	30 (20)

( ) = 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.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Pentachlorophenol	2200	0	2100	ug/Kg	95		15		20 (47)	160 (128)	30 (20)
Phenanthrene	1100	0	1100	ug/Kg	100		12		70 (52)	130 (128)	30 (20)
Anthracene	1100	0	1200	ug/Kg	109		18		70 (62)	130 (124)	30 (20)
Carbazole	1100	0	1100	ug/Kg	100		19		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	1100	0	1200	ug/Kg	109		18		70 (69)	130 (118)	30 (20)
Fluoranthene	1100	0	1000	ug/Kg	91		15		70 (44)	130 (125)	30 (20)
Pyrene	1100	0	1000	ug/Kg	91		9		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	1100	0	1300	ug/Kg	118		8		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	1100	0	820	ug/Kg	75		5		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	1100	0	1200	ug/Kg	109		18		70 (71)	130 (114)	30 (20)
Chrysene	1100	0	1100	ug/Kg	100		12		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	1100	0	1500	ug/Kg	136	*	14		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	1100	0	1400	ug/Kg	127		15		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	1100	0	1000	ug/Kg	91		13		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	1100	0	1200	ug/Kg	109		18		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	1100	0	1200	ug/Kg	109		9		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	1100	0	1200	ug/Kg	109		18		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	1100	0	1200	ug/Kg	109		18		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	1100	0	990	ug/Kg	90		13		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	1100	0	1200	ug/Kg	109		19		70 (69)	130 (124)	30 (20)
1,4-Dioxane	1100	0	960	ug/Kg	87		13		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	1100	0	1200	ug/Kg	109		18		70 (69)	130 (112)	30 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF139992.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164312BS	Benzaldehyde	1700	500	ug/Kg	29				20 (10)	160 (133)	
	Phenol	1700	1500	ug/Kg	88				20 (62)	160 (112)	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				70 (60)	130 (101)	
	2-Chlorophenol	1700	1600	ug/Kg	94				70 (65)	130 (112)	
	2-Methylphenol	1700	1500	ug/Kg	88				70 (61)	130 (108)	
	2,2-oxybis(1-Chloropropane)	1700	1500	ug/Kg	88				70 (51)	130 (100)	
	Acetophenone	1700	1500	ug/Kg	88				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1500	ug/Kg	88				20 (58)	160 (111)	
	N-Nitroso-di-n-propylamine	1700	1500	ug/Kg	88				70 (63)	130 (95)	
	Hexachloroethane	1700	1500	ug/Kg	88				20 (72)	160 (108)	
	Nitrobenzene	1700	1500	ug/Kg	88				70 (57)	130 (101)	
	Isophorone	1700	1600	ug/Kg	94				70 (59)	130 (99)	
	2-Nitrophenol	1700	1900	ug/Kg	112				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1800	ug/Kg	106				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1600	ug/Kg	94				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1600	ug/Kg	94				70 (62)	130 (107)	
	Naphthalene	1700	1500	ug/Kg	88				70 (62)	130 (100)	
	4-Chloroaniline	1700	1200	ug/Kg	71				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	1500	ug/Kg	88				70 (58)	130 (112)	
	2-Methylnaphthalene	1700	1600	ug/Kg	94				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	6000	ug/Kg	182		*		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	1500	ug/Kg	88				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1500	ug/Kg	88				70 (58)	130 (99)	
	2-Nitroaniline	1700	1700	ug/Kg	100				70 (66)	130 (101)	
	Dimethylphthalate	1700	1600	ug/Kg	94				70 (61)	130 (99)	
	Acenaphthylene	1700	1600	ug/Kg	94				70 (63)	130 (101)	
	2,6-Dinitrotoluene	1700	1600	ug/Kg	94				70 (61)	130 (104)	
	3-Nitroaniline	1700	1300	ug/Kg	76				70 (28)	130 (100)	
	Acenaphthene	1700	1700	ug/Kg	100				70 (57)	130 (104)	
	2,4-Dinitrophenol	3300	4300	ug/Kg	130				20 (37)	160 (128)	
	4-Nitrophenol	3300	3400	ug/Kg	103				20 (48)	160 (119)	
	Dibenzofuran	1700	1500	ug/Kg	88				70 (63)	130 (99)	
	2,4-Dinitrotoluene	1700	1800	ug/Kg	106				70 (60)	130 (106)	
	Diethylphthalate	1700	1500	ug/Kg	88				70 (60)	130 (101)	
	4-Chlorophenyl-phenylether	1700	1600	ug/Kg	94				70 (58)	130 (98)	
	Fluorene	1700	1500	ug/Kg	88				70 (61)	130 (101)	
	4-Nitroaniline	1700	1600	ug/Kg	94				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	2300	ug/Kg	135		*		70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1500	ug/Kg	88				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				70 (66)	130 (102)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4471

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF139992.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164312BS	Hexachlorobenzene	1700	1600	ug/Kg	94				70 (64)	130 (98)	
	Atrazine	1700	1800	ug/Kg	106				70 (47)	130 (152)	
	Pentachlorophenol	3300	3200	ug/Kg	97				20 (67)	160 (105)	
	Phenanthrene	1700	1600	ug/Kg	94				70 (59)	130 (103)	
	Anthracene	1700	1600	ug/Kg	94				70 (61)	130 (105)	
	Carbazole	1700	1500	ug/Kg	88				70 (61)	130 (99)	
	Di-n-butylphthalate	1700	1500	ug/Kg	88				70 (58)	130 (104)	
	Fluoranthene	1700	1500	ug/Kg	88				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	1500	ug/Kg	88				70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1600	ug/Kg	94				70 (60)	130 (102)	
	Chrysene	1700	1600	ug/Kg	94				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	1700	ug/Kg	100				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	1600	ug/Kg	94				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1600	ug/Kg	94				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1500	ug/Kg	88				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1700	ug/Kg	100				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1800	ug/Kg	106				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1800	ug/Kg	106				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	1700	ug/Kg	100				70 (70)	130 (108)	
	1,2,4,5-Tetrachlorobenzene	1700	1600	ug/Kg	94				70 (53)	130 (101)	
	1,4-Dioxane	1700	1300	ug/Kg	76				20 (50)	160 (96)	
	2,3,4,6-Tetrachlorophenol	1700	1700	ug/Kg	100				70 (59)	130 (108)	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164312BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471

Lab File ID: BF139991.D Lab Sample ID: PB164312BL

Instrument ID: BNA_F Date Extracted: 10/22/2024

Matrix: (soil/water) SOIL Date Analyzed: 10/24/2024

Level: (low/med) LOW Time Analyzed: 10:23

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164312BS	PB164312BS	BF139992.D	10/24/2024
B-180-SB01	P4471-01	BF140011.D	10/24/2024
B-180-SB02	P4471-02	BF140064.D	10/26/2024
TP-1MS	P4467-01MS	BF140004.D	10/24/2024
TP-1MSD	P4467-01MSD	BF140005.D	10/24/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4471 SDG NO.: P4471

Lab File ID: BF139843.D DFTPP Injection Date: 10/18/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:22

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	43.8
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	46.9
197	Less than 2.0% of mass 198	0.8
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	26.9
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	14
442	Greater than 50% of mass 198	93.1
443	15.0 - 24.0% of mass 442	17.9 (19.2) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF139844.D	10/18/2024	10:27
SSTDICC005	SSTDICC005	BF139845.D	10/18/2024	10:55
SSTDICC010	SSTDICC010	BF139846.D	10/18/2024	11:23
SSTDICC020	SSTDICC020	BF139847.D	10/18/2024	11:52
SSTDICCC040	SSTDICCC040	BF139848.D	10/18/2024	12:20
SSTDICC050	SSTDICC050	BF139849.D	10/18/2024	12:49
SSTDICC060	SSTDICC060	BF139850.D	10/18/2024	13:17
SSTDICC080	SSTDICC080	BF139851.D	10/18/2024	13:46

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4471 SDG NO.: P4471

Lab File ID: BF139989.D DFTPP Injection Date: 10/24/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:26

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	32.5
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	29.8
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	37.5
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.6
275	10.0 - 60.0% of mass 198	24.9
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	14.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.1 (19.1) 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
SSTDCCC040	SSTDCCC040	BF139990.D	10/24/2024	09:55
PB164312BL	PB164312BL	BF139991.D	10/24/2024	10:23
PB164312BS	PB164312BS	BF139992.D	10/24/2024	10:52

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4471 SDG NO.: P4471

Lab File ID: BF140000.D DFTPP Injection Date: 10/24/2024

Instrument ID: BNA_F DFTPP Injection Time: 14:47

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	35.2
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	44.2
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	26.7
365	Greater than 1% of mass 198	3.5
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	19.3 (19.3) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140001.D	10/24/2024	15:16
TP-1MS	P4467-01MS	BF140004.D	10/24/2024	16:48
TP-1MSD	P4467-01MSD	BF140005.D	10/24/2024	17:17
B-180-SB01	P4471-01	BF140011.D	10/24/2024	20:08

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4471 SDG NO.: P4471

Lab File ID: BF140049.D DFTPP Injection Date: 10/26/2024

Instrument ID: BNA_F DFTPP Injection Time: 10:10

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	42.1
68	Less than 2.0% of mass 69	0.7 (1.8) 1
69	Mass 69 relative abundance	38.1
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	47.5
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	6.5
275	10.0 - 60.0% of mass 198	28.3
365	Greater than 1% of mass 198	3.3
441	Present, but less than mass 443	14.1
442	Greater than 50% of mass 198	93.5
443	15.0 - 24.0% of mass 442	18.1 (19.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140050.D	10/26/2024	10:38
B-180-SB02	P4471-02	BF140064.D	10/26/2024	17:16

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/24/2024

Lab File ID: BF139990.D Time Analyzed: 09:55

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	160242	6.892	587754	8.18	322730	9.93
	UPPER LIMIT	320484	7.392	1175510	8.675	645460	10.428
	LOWER LIMIT	80121	6.392	293877	7.675	161365	9.428
	EPA SAMPLE NO.						
01	PB164312BL	147139	6.89	571542	8.17	324595	9.93
02	PB164312BS	158670	6.89	605986	8.18	338004	9.93

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.: P4471 SAS No.: P4471 SDG NO.: P4471

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/24/2024

Lab File ID: BF139990.D Time Analyzed: 09:55

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	552693	11.416	268892	14.057	303963	15.533
	UPPER LIMIT	1105390	11.916	537784	14.557	607926	16.033
	LOWER LIMIT	276347	10.916	134446	13.557	151982	15.033
	EPA SAMPLE NO.						
01	PB164312BL	586249	11.41	355232	14.05	286763	15.53
02	PB164312BS	591954	11.42	292113	14.06	314861	15.53

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.: P4471 SAS No.: P4471 SDG NO.: P4471

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/24/2024

Lab File ID: BF140001.D Time Analyzed: 15:16

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	162461	6.892	593909	8.18	325446	9.93
	UPPER LIMIT	324922	7.392	1187820	8.675	650892	10.428
	LOWER LIMIT	81230.5	6.392	296955	7.675	162723	9.428
	EPA SAMPLE NO.						
01	TP-1MS	151264	6.89	576250	8.18	315137	9.93
02	TP-1MSD	131947	6.89	501368	8.18	271082	9.93
03	B-180-SB01	82696	6.89	315895	8.17	171301	9.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/24/2024

Lab File ID: BF140001.D Time Analyzed: 15:16

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	551060	11.416	264546	14.051	308388	15.533
	UPPER LIMIT	1102120	11.916	529092	14.551	616776	16.033
	LOWER LIMIT	275530	10.916	132273	13.551	154194	15.033
	EPA SAMPLE NO.						
01	TP-1MS	529411	11.42	267551	14.05	360724	15.53
02	TP-1MSD	450738	11.42	233244	14.05	308426	15.53
03	B-180-SB01	285460	11.41	149838	14.05	184288	15.53

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.: P4471 SAS No.: P4471 SDG NO.: P4471

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/26/2024

Lab File ID: BF140050.D Time Analyzed: 10:38

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	128827	6.892	465620	8.18	252523	9.93
	UPPER LIMIT	257654	7.392	931240	8.675	505046	10.428
	LOWER LIMIT	64413.5	6.392	232810	7.675	126262	9.428
	EPA SAMPLE NO.						
01	B-180-SB02	140732	6.89	538776	8.17	296372	9.92

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG NO.: P4471

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/26/2024

Lab File ID: BF140050.D Time Analyzed: 10:38

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	452033	11.416	241717	14.051	235878	15.533
	UPPER LIMIT	904066	11.916	483434	14.551	471756	16.033
	LOWER LIMIT	226017	10.916	120859	13.551	117939	15.033
	EPA SAMPLE NO.						
01	B-180-SB02	470615	11.41	239328	14.05	267329	15.53

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: **BF139991.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164312BL	SDG No.:	P4471
Lab Sample ID:	PB164312BL	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
BF139991.D	1	10/22/24 10:44	10/24/24 10:23	PB164312

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: **BF139991.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164312BL	SDG No.:	P4471
Lab Sample ID:	PB164312BL	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
BF139991.D	1	10/22/24 10:44	10/24/24 10:23	PB164312

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: **BF139991.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164312BL	SDG No.:	P4471
Lab Sample ID:	PB164312BL	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
BF139991.D	1	10/22/24 10:44	10/24/24 10:23	PB164312

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	131		30 (18) - 130 (112)	87%	SPK: 150
13127-88-3	Phenol-d6	126		30 (15) - 130 (107)	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.5		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	158		30 (10) - 130 (116)	105%	SPK: 150
1718-51-0	Terphenyl-d14	92.9		30 (10) - 130 (105)	93%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	147000	6.892			
1146-65-2	Naphthalene-d8	572000	8.169			
15067-26-2	Acenaphthene-d10	325000	9.928			
1517-22-2	Phenanthrene-d10	586000	11.41			
1719-03-5	Chrysene-d12	355000	14.051			
1520-96-3	Perylene-d12	287000	15.527			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	110	J		2.23	ug/Kg
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	240	A		5.13	ug/Kg

Raw Data: **BF139991.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture			Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024			Date Received:	
Client Sample ID:	PB164312BL			SDG No.:	P4471
Lab Sample ID:	PB164312BL			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
BF139991.D	1	10/22/24 10:44	10/24/24 10:23	PB164312

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: **BF139992.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164312BS	SDG No.:	P4471
Lab Sample ID:	PB164312BS	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
BF139992.D	1	10/22/24 10:44	10/24/24 10:52	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	500		180	330	ug/Kg
108-95-2	Phenol	1500		82.8	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1500		83.6	170	ug/Kg
95-57-8	2-Chlorophenol	1600		83.4	170	ug/Kg
95-48-7	2-Methylphenol	1500		80.5	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1500		90.8	170	ug/Kg
98-86-2	Acetophenone	1500		86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	1500		79.7	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1500		40.3	79.9	ug/Kg
67-72-1	Hexachloroethane	1500		82.9	170	ug/Kg
98-95-3	Nitrobenzene	1500		90.7	170	ug/Kg
78-59-1	Isophorone	1600		84.5	170	ug/Kg
88-75-5	2-Nitrophenol	1900		94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1800		93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1600		85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1600		75.4	170	ug/Kg
91-20-3	Naphthalene	1500		82.5	170	ug/Kg
106-47-8	4-Chloroaniline	1200		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	1500		77.4	170	ug/Kg
91-57-6	2-Methylnaphthalene	1600		82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	6000	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	1500		87.3	170	ug/Kg
91-58-7	2-Chloronaphthalene	1500		83.2	170	ug/Kg
88-74-4	2-Nitroaniline	1700		94.9	170	ug/Kg
131-11-3	Dimethylphthalate	1600		81.6	170	ug/Kg

Raw Data: **BF139992.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164312BS	SDG No.:	P4471
Lab Sample ID:	PB164312BS	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
BF139992.D	1	10/22/24 10:44	10/24/24 10:52	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1600		86.4	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	1600		83.1	170	ug/Kg
99-09-2	3-Nitroaniline	1300		89.1	170	ug/Kg
83-32-9	Acenaphthene	1700		81.0	170	ug/Kg
51-28-5	2,4-Dinitrophenol	4300	E	240	330	ug/Kg
100-02-7	4-Nitrophenol	3400	E	120	330	ug/Kg
132-64-9	Dibenzofuran	1500		84.3	170	ug/Kg
121-14-2	2,4-Dinitrotoluene	1800		86.1	170	ug/Kg
84-66-2	Diethylphthalate	1500		80.0	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1600		85.5	170	ug/Kg
86-73-7	Fluorene	1500		85.4	170	ug/Kg
100-01-6	4-Nitroaniline	1600		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2300		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		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	1800		91.3	170	ug/Kg
87-86-5	Pentachlorophenol	3200	E	77.2	330	ug/Kg
85-01-8	Phenanthrene	1600		83.9	170	ug/Kg
120-12-7	Anthracene	1600		84.3	170	ug/Kg
86-74-8	Carbazole	1500		80.2	170	ug/Kg
84-74-2	Di-n-butylphthalate	1500		84.2	170	ug/Kg
206-44-0	Fluoranthene	1500		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	1500		98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	1600		80.6	170	ug/Kg
218-01-9	Chrysene	1600		79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1700		90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1600		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1600		81.0	170	ug/Kg

Raw Data: **BF139992.D**

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164312BS	SDG No.:	P4471
Lab Sample ID:	PB164312BS	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
BF139992.D	1	10/22/24 10:44	10/24/24 10:52	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1500		82.5	170	ug/Kg
50-32-8	Benzo(a)pyrene	1700		92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1800		78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1800		81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1700		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	1300		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		74.7	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	129		30 (18) - 130 (112)	86%	SPK: 150
13127-88-3	Phenol-d6	126		30 (15) - 130 (107)	84%	SPK: 150
4165-60-0	Nitrobenzene-d5	99.4		30 (18) - 130 (107)	99%	SPK: 100
321-60-8	2-Fluorobiphenyl	93.9		30 (20) - 130 (109)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	157		30 (10) - 130 (116)	104%	SPK: 150
1718-51-0	Terphenyl-d14	105		30 (10) - 130 (105)	105%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	159000	6.892			
1146-65-2	Naphthalene-d8	606000	8.175			
15067-26-2	Acenaphthene-d10	338000	9.927			
1517-22-2	Phenanthrene-d10	592000	11.416			
1719-03-5	Chrysene-d12	292000	14.057			
1520-96-3	Perylene-d12	315000	15.533			

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

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:	10/21/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	TP-1MS	SDG No.:	P4471
Lab Sample ID:	P4467-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.7
Sample Wt/Vol:	50.03 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
BF140004.D	1	10/22/24 10:44	10/24/24 16:48	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	290		120	220	ug/Kg
108-95-2	Phenol	960		54.8	110	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	950		55.3	110	ug/Kg
95-57-8	2-Chlorophenol	990		55.2	110	ug/Kg
95-48-7	2-Methylphenol	960		53.3	110	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	910		60.1	110	ug/Kg
98-86-2	Acetophenone	950		57.5	110	ug/Kg
65794-96-9	3+4-Methylphenols	920		52.8	220	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	930		26.6	52.9	ug/Kg
67-72-1	Hexachloroethane	940		54.9	110	ug/Kg
98-95-3	Nitrobenzene	930		60.0	110	ug/Kg
78-59-1	Isophorone	970		55.9	110	ug/Kg
88-75-5	2-Nitrophenol	1200		62.5	110	ug/Kg
105-67-9	2,4-Dimethylphenol	1100		61.6	110	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	950		56.7	110	ug/Kg
120-83-2	2,4-Dichlorophenol	1000		49.9	110	ug/Kg
91-20-3	Naphthalene	950		54.6	110	ug/Kg
106-47-8	4-Chloroaniline	350		54.6	110	ug/Kg
87-68-3	Hexachlorobutadiene	970		55.1	110	ug/Kg
105-60-2	Caprolactam	990		57.4	220	ug/Kg
59-50-7	4-Chloro-3-methylphenol	960		51.2	110	ug/Kg
91-57-6	2-Methylnaphthalene	970		54.5	110	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3500	E	100	220	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1000		47.2	110	ug/Kg
95-95-4	2,4,5-Trichlorophenol	990		48.9	110	ug/Kg
92-52-4	1,1-Biphenyl	980		57.8	110	ug/Kg
91-58-7	2-Chloronaphthalene	960		55.1	110	ug/Kg
88-74-4	2-Nitroaniline	1100		62.8	110	ug/Kg
131-11-3	Dimethylphthalate	1000		54.0	110	ug/Kg

Raw Data: **BF140004.D**

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/21/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	TP-1MS	SDG No.:	P4471
Lab Sample ID:	P4467-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.7
Sample Wt/Vol:	50.03 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
BF140004.D	1	10/22/24 10:44	10/24/24 16:48	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1000		57.2	110	ug/Kg
606-20-2	2,6-Dinitrotoluene	1000		55.0	110	ug/Kg
99-09-2	3-Nitroaniline	660		59.0	110	ug/Kg
83-32-9	Acenaphthene	1100		53.6	110	ug/Kg
51-28-5	2,4-Dinitrophenol	2200	E	160	220	ug/Kg
100-02-7	4-Nitrophenol	2000	E	76.7	220	ug/Kg
132-64-9	Dibenzofuran	980		55.8	110	ug/Kg
121-14-2	2,4-Dinitrotoluene	1100		57.0	110	ug/Kg
84-66-2	Diethylphthalate	990		53.0	110	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	980		56.6	110	ug/Kg
86-73-7	Fluorene	960		56.5	110	ug/Kg
100-01-6	4-Nitroaniline	1000		70.7	110	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1300		77.4	220	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1000		53.9	110	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1000		52.2	110	ug/Kg
118-74-1	Hexachlorobenzene	1000		56.2	110	ug/Kg
1912-24-9	Atrazine	1200		60.4	110	ug/Kg
87-86-5	Pentachlorophenol	1800	E	51.1	220	ug/Kg
85-01-8	Phenanthrene	980		55.5	110	ug/Kg
120-12-7	Anthracene	1000		55.8	110	ug/Kg
86-74-8	Carbazole	910		53.1	110	ug/Kg
84-74-2	Di-n-butylphthalate	1000		55.7	110	ug/Kg
206-44-0	Fluoranthene	860		54.0	110	ug/Kg
129-00-0	Pyrene	910		54.9	110	ug/Kg
85-68-7	Butylbenzylphthalate	1200		64.0	110	ug/Kg
91-94-1	3,3-Dichlorobenzidine	780		65.2	220	ug/Kg
56-55-3	Benzo(a)anthracene	1000		53.4	110	ug/Kg
218-01-9	Chrysene	980		52.6	110	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1300		60.2	110	ug/Kg
117-84-0	Di-n-octyl phthalate	1200		72.7	220	ug/Kg
205-99-2	Benzo(b)fluoranthene	880		53.6	110	ug/Kg

Raw Data: **BF140004.D**

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Fax : 908 789 8922

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/21/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	TP-1MS	SDG No.:	P4471
Lab Sample ID:	P4467-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.7
Sample Wt/Vol:	50.03 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
BF140004.D	1	10/22/24 10:44	10/24/24 16:48	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1000		54.6	110	ug/Kg
50-32-8	Benzo(a)pyrene	1100		61.5	110	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1000		51.6	110	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1000		53.7	110	ug/Kg
191-24-2	Benzo(g,h,i)perylene	870		53.0	110	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	990		57.4	110	ug/Kg
123-91-1	1,4-Dioxane	840		72.7	110	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1000		49.4	110	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	83.4		30 (18) - 130 (112)	56%	SPK: 150
13127-88-3	Phenol-d6	81.7		30 (15) - 130 (107)	54%	SPK: 150
4165-60-0	Nitrobenzene-d5	61.8		30 (18) - 130 (107)	62%	SPK: 100
321-60-8	2-Fluorobiphenyl	58.9		30 (20) - 130 (109)	59%	SPK: 100
118-79-6	2,4,6-Tribromophenol	96.0		30 (10) - 130 (116)	64%	SPK: 150
1718-51-0	Terphenyl-d14	55.7		30 (10) - 130 (105)	56%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	151000	6.893			
1146-65-2	Naphthalene-d8	576000	8.175			
15067-26-2	Acenaphthene-d10	315000	9.928			
1517-22-2	Phenanthrene-d10	529000	11.416			
1719-03-5	Chrysene-d12	268000	14.051			
1520-96-3	Perylene-d12	361000	15.533			

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: **BF140005.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:	10/21/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	TP-1MSD	SDG No.:	P4471
Lab Sample ID:	P4467-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.7
Sample Wt/Vol:	50.06 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
BF140005.D	1	10/22/24 10:44	10/24/24 17:17	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	340		120	220	ug/Kg
108-95-2	Phenol	1100		54.8	110	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1100		55.3	110	ug/Kg
95-57-8	2-Chlorophenol	1100		55.2	110	ug/Kg
95-48-7	2-Methylphenol	1100		53.3	110	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1000		60.1	110	ug/Kg
98-86-2	Acetophenone	1100		57.4	110	ug/Kg
65794-96-9	3+4-Methylphenols	1100		52.7	220	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1100		26.6	52.9	ug/Kg
67-72-1	Hexachloroethane	1100		54.8	110	ug/Kg
98-95-3	Nitrobenzene	1100		60.0	110	ug/Kg
78-59-1	Isophorone	1100		55.9	110	ug/Kg
88-75-5	2-Nitrophenol	1400		62.4	110	ug/Kg
105-67-9	2,4-Dimethylphenol	1300		61.6	110	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1100		56.7	110	ug/Kg
120-83-2	2,4-Dichlorophenol	1100		49.9	110	ug/Kg
91-20-3	Naphthalene	1100		54.6	110	ug/Kg
106-47-8	4-Chloroaniline	390		54.6	110	ug/Kg
87-68-3	Hexachlorobutadiene	1100		55.0	110	ug/Kg
105-60-2	Caprolactam	1100		57.4	220	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1100		51.2	110	ug/Kg
91-57-6	2-Methylnaphthalene	1100		54.5	110	ug/Kg
77-47-4	Hexachlorocyclopentadiene	4000	E	100	220	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1200		47.2	110	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1100		48.9	110	ug/Kg
92-52-4	1,1-Biphenyl	1100		57.7	110	ug/Kg
91-58-7	2-Chloronaphthalene	1100		55.0	110	ug/Kg
88-74-4	2-Nitroaniline	1200		62.8	110	ug/Kg
131-11-3	Dimethylphthalate	1200		54.0	110	ug/Kg

Raw Data: **BF140005.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:	10/21/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	TP-1MSD	SDG No.:	P4471
Lab Sample ID:	P4467-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.7
Sample Wt/Vol:	50.06 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
BF140005.D	1	10/22/24 10:44	10/24/24 17:17	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1200		57.2	110	ug/Kg
606-20-2	2,6-Dinitrotoluene	1200		55.0	110	ug/Kg
99-09-2	3-Nitroaniline	750		58.9	110	ug/Kg
83-32-9	Acenaphthene	1200		53.6	110	ug/Kg
51-28-5	2,4-Dinitrophenol	2400	E	160	220	ug/Kg
100-02-7	4-Nitrophenol	2300	E	76.6	220	ug/Kg
132-64-9	Dibenzofuran	1100		55.8	110	ug/Kg
121-14-2	2,4-Dinitrotoluene	1300		57.0	110	ug/Kg
84-66-2	Diethylphthalate	1100		52.9	110	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1100		56.6	110	ug/Kg
86-73-7	Fluorene	1100		56.5	110	ug/Kg
100-01-6	4-Nitroaniline	1200		70.7	110	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1500		77.3	220	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1200		53.9	110	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1200		52.1	110	ug/Kg
118-74-1	Hexachlorobenzene	1200		56.2	110	ug/Kg
1912-24-9	Atrazine	1400		60.4	110	ug/Kg
87-86-5	Pentachlorophenol	2100	E	51.1	220	ug/Kg
85-01-8	Phenanthrene	1100		55.5	110	ug/Kg
120-12-7	Anthracene	1200		55.8	110	ug/Kg
86-74-8	Carbazole	1100		53.1	110	ug/Kg
84-74-2	Di-n-butylphthalate	1200		55.7	110	ug/Kg
206-44-0	Fluoranthene	1000		54.0	110	ug/Kg
129-00-0	Pyrene	1000		54.8	110	ug/Kg
85-68-7	Butylbenzylphthalate	1300		64.0	110	ug/Kg
91-94-1	3,3-Dichlorobenzidine	820		65.1	220	ug/Kg
56-55-3	Benzo(a)anthracene	1200		53.3	110	ug/Kg
218-01-9	Chrysene	1100		52.5	110	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		60.1	110	ug/Kg
117-84-0	Di-n-octyl phthalate	1400		72.7	220	ug/Kg
205-99-2	Benzo(b)fluoranthene	1000		53.6	110	ug/Kg

Raw Data: **BF140005.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/21/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/21/24
Client Sample ID:	TP-1MSD	SDG No.:	P4471
Lab Sample ID:	P4467-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	90.7
Sample Wt/Vol:	50.06 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
BF140005.D	1	10/22/24 10:44	10/24/24 17:17	PB164312

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1200		54.6	110	ug/Kg
50-32-8	Benzo(a)pyrene	1200		61.4	110	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1200		51.6	110	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1200		53.7	110	ug/Kg
191-24-2	Benzo(g,h,i)perylene	990		52.9	110	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1200		57.4	110	ug/Kg
123-91-1	1,4-Dioxane	960		72.7	110	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1200		49.4	110	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	94.9		30 (18) - 130 (112)	63%	SPK: 150
13127-88-3	Phenol-d6	92.7		30 (15) - 130 (107)	62%	SPK: 150
4165-60-0	Nitrobenzene-d5	70.6		30 (18) - 130 (107)	71%	SPK: 100
321-60-8	2-Fluorobiphenyl	68.2		30 (20) - 130 (109)	68%	SPK: 100
118-79-6	2,4,6-Tribromophenol	110		30 (10) - 130 (116)	74%	SPK: 150
1718-51-0	Terphenyl-d14	64.9		30 (10) - 130 (105)	65%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	132000	6.893			
1146-65-2	Naphthalene-d8	501000	8.175			
15067-26-2	Acenaphthene-d10	271000	9.928			
1517-22-2	Phenanthrene-d10	451000	11.416			
1719-03-5	Chrysene-d12	233000	14.051			
1520-96-3	Perylene-d12	308000	15.527			

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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Fri Oct 18 15:07:50 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF139844.D 5 =BF139845.D 10 =BF139846.D 20 =BF139847.D 40 =BF139848.D 50 =BF139849.D 60 =BF139850.D 80 =BF1398
51.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.651	0.625	0.603	0.591	0.571	0.581	0.548	0.596	5.74
3)		Pyridine		1.622	1.570	1.522	1.504	1.386	1.406	1.326	1.476	7.26
4)		n-Nitrosodimet...		0.815	0.800	0.799	0.806	0.782	0.794	0.757	0.793	2.39
5)	S	2-Fluorophenol		1.465	1.398	1.331	1.278	1.179	1.186	1.106	1.278	10.10
6)		Aniline		1.673	1.649	1.618	1.582	1.471	1.479	1.324	1.542	8.05
7)	S	Phenol-d6		1.900	1.818	1.709	1.647	1.538	1.539	1.432	1.655	10.06
8)		2-Chlorophenol		1.503	1.422	1.358	1.310	1.212	1.221	1.116	1.306	10.24
9)		Benzaldehyde			1.137	1.042	0.940	0.873	0.853	0.740	0.931	15.22
10)	C	Phenol		1.952	1.832	1.760	1.712	1.583	1.601	1.502	1.706	9.19
11)		bis(2-Chloroet...		1.470	1.423	1.359	1.294	1.251	1.249	1.183	1.319	7.82
12)		1,3-Dichlorobe...		1.718	1.656	1.544	1.499	1.392	1.391	1.294	1.499	10.19
13)	C	1,4-Dichlorobe...		1.723	1.641	1.558	1.487	1.392	1.391	1.291	1.498	10.19
14)		1,2-Dichlorobe...		1.660	1.579	1.478	1.379	1.273	1.267	1.149	1.398	13.15
15)		Benzyl Alcohol		1.355	1.299	1.257	1.213	1.154	1.146	1.071	1.214	8.07
16)		2,2'-oxybis(1-...		2.524	2.409	2.353	2.255	2.117	2.115	1.964	2.248	8.69
17)		2-Methylphenol		1.264	1.164	1.134	1.114	1.053	1.063	1.004	1.114	7.69
18)		Hexachloroethane		0.583	0.571	0.549	0.541	0.507	0.511	0.477	0.534	7.06
19)	P	n-Nitroso-di-n...	1.105	1.141	1.066	1.025	0.974	0.921	0.927	0.869	1.004	9.63
20)		3+4-Methylphenols		1.678	1.573	1.520	1.418	1.309	1.300	1.173	1.424	12.41
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.578	0.533	0.516	0.481	0.452	0.454	0.414	0.490	11.43
23)	S	Nitrobenzene-d5		0.365	0.365	0.372	0.371	0.354	0.357	0.342	0.361	2.92
24)		Nitrobenzene		0.417	0.402	0.408	0.403	0.383	0.388	0.370	0.396	4.10
25)		Isophorone		0.755	0.709	0.702	0.679	0.652	0.660	0.637	0.685	5.90
26)	C	2-Nitrophenol		0.124	0.137	0.150	0.157	0.158	0.161	0.157	0.149	9.22
27)		2,4-Dimethylph...		0.285	0.259	0.256	0.248	0.237	0.234	0.223	0.249	8.07
28)		bis(2-Chloroet...		0.468	0.440	0.432	0.412	0.394	0.390	0.369	0.415	8.22
29)	C	2,4-Dichloroph...		0.308	0.297	0.293	0.283	0.272	0.274	0.257	0.283	6.17
30)		1,2,4-Trichlor...		0.351	0.331	0.325	0.315	0.298	0.298	0.279	0.314	7.68
31)		Naphthalene		1.209	1.121	1.091	1.023	0.958	0.944	0.875	1.031	11.23
32)		Benzoic acid			0.175	0.207	0.220	0.231	0.235	0.235	0.217	10.69
33)		4-Chloroaniline		0.397	0.382	0.368	0.351	0.332	0.326	0.306	0.352	9.26
34)	C	Hexachlorobuta...		0.224	0.206	0.203	0.197	0.185	0.187	0.177	0.197	7.96
35)		Caprolactam		0.092	0.092	0.092	0.092	0.088	0.088	0.086	0.090	2.85
36)	C	4-Chloro-3-met...		0.341	0.328	0.324	0.315	0.299	0.303	0.287	0.314	6.03
37)		2-Methylnaphth...		0.740	0.689	0.666	0.621	0.587	0.583	0.537	0.632	11.11
38)		1-Methylnaphth...		0.726	0.683	0.655	0.612	0.569	0.567	0.526	0.620	11.55

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.609	0.579	0.562	0.537	0.512	0.506	0.472	0.540	8.72
41)	P	Hexachlorocycl...	0.185	0.193	0.198	0.198	0.186	0.185	0.169	0.188	5.28
42)	S	2,4,6-Tribromo...	0.201	0.196	0.193	0.188	0.179	0.180	0.173	0.187	5.47
43)	C	2,4,6-Trichlor...	0.405	0.382	0.400	0.387	0.363	0.383	0.354	0.382	4.80
44)		2,4,5-Trichlor...	0.426	0.425	0.398	0.401	0.381	0.369	0.359	0.394	6.58
45)	S	2-Fluorobiphenyl	1.512	1.396	1.280	1.162	1.088	1.060	0.973	1.210	16.05
46)		1,1'-Biphenyl	1.640	1.536	1.483	1.379	1.285	1.262	1.161	1.392	12.18
47)		2-Chloronaphth...	1.288	1.225	1.164	1.111	1.048	1.040	0.973	1.121	9.95
48)		2-Nitroaniline	0.299	0.318	0.353	0.365	0.354	0.362	0.349	0.343	7.20
49)		Acenaphthylene	1.854	1.756	1.717	1.615	1.507	1.505	1.394	1.621	10.06
50)		Dimethylphthalate	1.410	1.344	1.283	1.237	1.172	1.163	1.110	1.246	8.60
51)		2,6-Dinitrotol...	0.256	0.266	0.278	0.280	0.273	0.274	0.260	0.270	3.41
52)	C	Acenaphthene	1.200	1.136	1.089	1.044	0.977	0.983	0.913	1.049	9.55
53)		3-Nitroaniline	0.270	0.275	0.296	0.292	0.276	0.282	0.256	0.278	4.84
54)	P	2,4-Dinitrophenol		0.056	0.077	0.101	0.101	0.113	0.112	0.093	23.89
55)		Dibenzofuran	1.767	1.659	1.579	1.486	1.389	1.375	1.278	1.505	11.52
56)	P	4-Nitrophenol	0.187	0.207	0.225	0.232	0.219	0.220	0.208	0.214	6.84
57)		2,4-Dinitrotol...	0.280	0.314	0.337	0.356	0.344	0.351	0.338	0.332	7.94
58)		Fluorene	1.409	1.309	1.201	1.110	1.029	1.021	0.944	1.146	14.68
59)		2,3,4,6-Tetrac...	0.334	0.322	0.326	0.310	0.296	0.293	0.281	0.309	6.33
60)		Diethylphthalate	1.366	1.308	1.267	1.214	1.165	1.161	1.080	1.223	7.99
61)		4-Chlorophenyl...	0.698	0.638	0.617	0.569	0.526	0.520	0.484	0.579	13.14
62)		4-Nitroaniline	0.249	0.259	0.270	0.275	0.263	0.269	0.254	0.263	3.65
63)		Azobenzene	1.459	1.385	1.355	1.306	1.216	1.212	1.143	1.297	8.62
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.055	0.072	0.087	0.090	0.092	0.093	0.082	18.60
66)	c	n-Nitrosodiphe...	0.672	0.641	0.621	0.595	0.568	0.561	0.533	0.599	8.14
67)		4-Bromophenyl-...	0.230	0.217	0.211	0.202	0.197	0.196	0.189	0.206	6.98
68)		Hexachlorobenzene	0.258	0.245	0.237	0.231	0.217	0.221	0.212	0.232	7.20
69)		Atrazine	0.189	0.175	0.156	0.175	0.135	0.153	0.151	0.162	11.36
70)	C	Pentachlorophenol	0.118	0.137	0.148	0.152	0.145	0.144	0.140	0.141	8.04
71)		Phenanthrene	1.121	1.035	0.994	0.933	0.863	0.860	0.807	0.945	11.79
72)		Anthracene	1.082	1.014	0.972	0.913	0.851	0.833	0.787	0.922	11.53
73)		Carbazole	1.002	0.964	0.923	0.846	0.776	0.772	0.717	0.857	12.64
74)		Di-n-butylphth...	1.104	1.071	1.062	1.014	0.923	0.909	0.850	0.990	9.77
75)	C	Fluoranthene	1.149	1.108	1.036	0.943	0.842	0.835	0.772	0.955	15.34
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.457	0.461	0.293	0.366	0.276	0.203	0.246	0.329	30.86
78)		Pyrene	1.892	1.828	1.900	1.805	1.685	1.649	1.496	1.751	8.43
79)	S	Terphenyl-d14	1.381	1.335	1.340	1.244	1.154	1.121	1.018	1.227	10.96
80)		Butylbenzylpht...	0.490	0.513	0.536	0.555	0.535	0.531	0.514	0.525	3.99
81)		Benzo(a)anthra...	1.425	1.355	1.329	1.331	1.267	1.237	1.169	1.302	6.48
82)		3,3'-Dichlorob...	0.368	0.372	0.390	0.387	0.374	0.382	0.384	0.380	2.15
83)		Chrysene	1.325	1.244	1.234	1.167	1.134	1.151	1.101	1.194	6.52
84)		Bis(2-ethylhex...	0.520	0.539	0.577	0.626	0.620	0.626	0.614	0.589	7.48
85)	c	Di-n-octyl pht...		0.786	0.930	1.135	1.182	1.207	1.186	1.071	16.14

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF101824.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.209	1.261	1.307	1.352	1.299	1.326	1.253	1.287	3.77
88)		Benzo(b)fluora...	1.317	1.240	1.319	1.196	1.105	1.239	1.111	1.218	7.15
89)		Benzo(k)fluora...	1.213	1.177	0.992	1.066	1.030	0.929	0.947	1.051	10.42
90)	C	Benzo(a)pyrene	1.030	1.024	1.018	1.025	0.974	0.999	0.947	1.002	3.12
91)		Dibenzo(a,h)an...	1.021	1.064	1.103	1.120	1.083	1.085	1.036	1.073	3.31
92)		Benzo(g,h,i)pe...	1.030	1.046	1.090	1.128	1.081	1.095	1.035	1.072	3.37

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: BNA_F Calibration Date/Time: 10/24/2024 09:55

Lab File ID: BF139990.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.208		-5.5	
Benzaldehyde	0.931	0.831		-10.7	
Phenol-d6	1.655	1.504		-9.1	
Phenol	1.706	1.572		-7.9	20.0
bis(2-Chloroethyl)ether	1.319	1.218		-7.7	
2-Chlorophenol	1.306	1.240		-5.1	
2-Methylphenol	1.114	1.030		-7.5	
2,2-oxybis(1-Chloropropane)	2.248	1.937		-13.8	
Acetophenone	0.490	0.464		-5.3	
3+4-Methylphenols	1.424	1.299		-8.8	
n-Nitroso-di-n-propylamine	1.004	0.880	0.050	-12.4	
Nitrobenzene-d5	0.361	0.374		3.6	
Hexachloroethane	0.534	0.521		-2.4	
Nitrobenzene	0.396	0.392		-1.0	
Isophorone	0.685	0.644		-6.0	
2-Nitrophenol	0.149	0.177		18.8	20.0
2,4-Dimethylphenol	0.249	0.234		-6.0	
bis(2-Chloroethoxy)methane	0.415	0.394		-5.1	
2,4-Dichlorophenol	0.283	0.280		-1.1	20.0
Naphthalene	1.031	1.003		-2.7	
4-Chloroaniline	0.352	0.334		-5.1	
Hexachlorobutadiene	0.197	0.202		2.5	20.0
Caprolactam	0.090	0.088		-2.2	
4-Chloro-3-methylphenol	0.314	0.299		-4.8	20.0
2-Methylnaphthalene	0.632	0.616		-2.5	
Hexachlorocyclopentadiene	0.188	0.207	0.050	10.1	
2,4,6-Trichlorophenol	0.382	0.403		5.5	20.0
2-Fluorobiphenyl	1.210	1.183		-2.2	
2,4,5-Trichlorophenol	0.394	0.395		0.3	
1,1-Biphenyl	1.392	1.371		-1.5	
2-Chloronaphthalene	1.121	1.110		-1.0	
2-Nitroaniline	0.343	0.362		5.5	
Dimethylphthalate	1.246	1.208		-3.0	
Acenaphthylene	1.621	1.581		-2.5	
2,6-Dinitrotoluene	0.270	0.286		5.9	
3-Nitroaniline	0.278	0.284		2.2	
Acenaphthene	1.049	1.051		0.2	20.0
2,4-Dinitrophenol	0.093	0.148	0.050	59.1	
4-Nitrophenol	0.214	0.229	0.050	7.0	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: BNA_F Calibration Date/Time: 10/24/2024 09:55

Lab File ID: BF139990.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.505	1.448		-3.8	
2,4-Dinitrotoluene	0.332	0.371		11.7	
Diethylphthalate	1.223	1.175		-3.9	
4-Chlorophenyl-phenylether	0.579	0.580		0.2	
Fluorene	1.146	1.110		-3.1	
4-Nitroaniline	0.263	0.259		-1.5	
4,6-Dinitro-2-methylphenol	0.082	0.117		42.7	
n-Nitrosodiphenylamine	0.599	0.588		-1.8	20.0
2,4,6-Tribromophenol	0.187	0.205		9.6	
4-Bromophenyl-phenylether	0.206	0.216		4.9	
Hexachlorobenzene	0.232	0.240		3.4	
Atrazine	0.162	0.161		-0.6	
Pentachlorophenol	0.141	0.164		16.3	20.0
Phenanthrene	0.945	0.917		-3.0	
Anthracene	0.922	0.908		-1.5	
Carbazole	0.857	0.802		-6.4	
Di-n-butylphthalate	0.990	0.948		-4.2	
Fluoranthene	0.955	0.903		-5.4	20.0
Pyrene	1.751	1.844		5.3	
Terphenyl-d14	1.227	1.286		4.8	
Butylbenzylphthalate	0.525	0.536		2.1	
3,3-Dichlorobenzidine	0.380	0.412		8.4	
Benzo(a)anthracene	1.302	1.275		-2.1	
Chrysene	1.194	1.140		-4.5	
Bis(2-ethylhexyl)phthalate	0.589	0.640		8.7	
Di-n-octyl phthalate	1.071	1.138		6.3	20.0
Benzo(b)fluoranthene	1.218	1.075		-11.7	
Benzo(k)fluoranthene	1.051	1.055		0.4	
Benzo(a)pyrene	1.002	0.994		-0.8	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.421		10.4	
Dibenzo(a,h)anthracene	1.073	1.182		10.2	
Benzo(g,h,i)perylene	1.072	1.222		14.0	
1,2,4,5-Tetrachlorobenzene	0.540	0.551		2.0	
1,4-Dioxane	0.596	0.552		-7.4	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.322		4.2	

All other compounds must meet a minimum RRF of 0.010.

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: BNA_F Calibration Date/Time: 10/24/2024 15:16

Lab File ID: BF140001.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.208		-5.5	
Benzaldehyde	0.931	0.931		0.0	
Phenol-d6	1.655	1.521		-8.1	
Phenol	1.706	1.601		-6.2	20.0
bis(2-Chloroethyl)ether	1.319	1.259		-4.5	
2-Chlorophenol	1.306	1.259		-3.6	
2-Methylphenol	1.114	1.047		-6.0	
2,2-oxybis(1-Chloropropane)	2.248	1.948		-13.3	
Acetophenone	0.490	0.472		-3.7	
3+4-Methylphenols	1.424	1.322		-7.2	
n-Nitroso-di-n-propylamine	1.004	0.889	0.050	-11.5	
Nitrobenzene-d5	0.361	0.374		3.6	
Hexachloroethane	0.534	0.526		-1.5	
Nitrobenzene	0.396	0.397		0.3	
Isophorone	0.685	0.655		-4.4	
2-Nitrophenol	0.149	0.178		19.5	20.0
2,4-Dimethylphenol	0.249	0.238		-4.4	
bis(2-Chloroethoxy)methane	0.415	0.407		-1.9	
2,4-Dichlorophenol	0.283	0.285		0.7	20.0
Naphthalene	1.031	1.015		-1.6	
4-Chloroaniline	0.352	0.336		-4.5	
Hexachlorobutadiene	0.197	0.203		3.0	20.0
Caprolactam	0.090	0.089		-1.1	
4-Chloro-3-methylphenol	0.314	0.306		-2.5	20.0
2-Methylnaphthalene	0.632	0.623		-1.4	
Hexachlorocyclopentadiene	0.188	0.199	0.050	5.9	
2,4,6-Trichlorophenol	0.382	0.387		1.3	20.0
2-Fluorobiphenyl	1.210	1.197		-1.1	
2,4,5-Trichlorophenol	0.394	0.415		5.3	
1,1-Biphenyl	1.392	1.393		0.1	
2-Chloronaphthalene	1.121	1.127		0.5	
2-Nitroaniline	0.343	0.369		7.6	
Dimethylphthalate	1.246	1.232		-1.1	
Acenaphthylene	1.621	1.600		-1.3	
2,6-Dinitrotoluene	0.270	0.292		8.1	
3-Nitroaniline	0.278	0.285		2.5	
Acenaphthene	1.049	1.061		1.1	20.0
2,4-Dinitrophenol	0.093	0.142	0.050	52.7	
4-Nitrophenol	0.214	0.216	0.050	0.9	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: BNA_F Calibration Date/Time: 10/24/2024 15:16

Lab File ID: BF140001.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.505	1.482		-1.5	
2,4-Dinitrotoluene	0.332	0.371		11.7	
Diethylphthalate	1.223	1.183		-3.3	
4-Chlorophenyl-phenylether	0.579	0.577		-0.3	
Fluorene	1.146	1.115		-2.7	
4-Nitroaniline	0.263	0.268		1.9	
4,6-Dinitro-2-methylphenol	0.082	0.115		40.2	
n-Nitrosodiphenylamine	0.599	0.597		-0.3	20.0
2,4,6-Tribromophenol	0.187	0.207		10.7	
4-Bromophenyl-phenylether	0.206	0.220		6.8	
Hexachlorobenzene	0.232	0.242		4.3	
Atrazine	0.162	0.163		0.6	
Pentachlorophenol	0.141	0.159		12.8	20.0
Phenanthrene	0.945	0.922		-2.4	
Anthracene	0.922	0.910		-1.3	
Carbazole	0.857	0.810		-5.5	
Di-n-butylphthalate	0.990	0.945		-4.5	
Fluoranthene	0.955	0.896		-6.2	20.0
Pyrene	1.751	1.855		5.9	
Terphenyl-d14	1.227	1.306		6.4	
Butylbenzylphthalate	0.525	0.544		3.6	
3,3-Dichlorobenzidine	0.380	0.435		14.5	
Benzo(a)anthracene	1.302	1.322		1.5	
Chrysene	1.194	1.125		-5.8	
Bis(2-ethylhexyl)phthalate	0.589	0.627		6.5	
Di-n-octyl phthalate	1.071	1.102		2.9	20.0
Benzo(b)fluoranthene	1.218	1.087		-10.8	
Benzo(k)fluoranthene	1.051	1.032		-1.8	
Benzo(a)pyrene	1.002	0.984		-1.8	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.386		7.7	
Dibenzo(a,h)anthracene	1.073	1.154		7.5	
Benzo(g,h,i)perylene	1.072	1.167		8.9	
1,2,4,5-Tetrachlorobenzene	0.540	0.560		3.7	
1,4-Dioxane	0.596	0.573		-3.9	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.321		3.9	

All other compounds must meet a minimum RRF of 0.010.

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Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: BNA_F Calibration Date/Time: 10/26/2024 10:38

Lab File ID: BF140050.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.278	1.220		-4.5	
Benzaldehyde	0.931	0.910		-2.3	
Phenol-d6	1.655	1.531		-7.5	
Phenol	1.706	1.580		-7.4	20.0
bis(2-Chloroethyl)ether	1.319	1.223		-7.3	
2-Chlorophenol	1.306	1.244		-4.7	
2-Methylphenol	1.114	1.029		-7.6	
2,2-oxybis(1-Chloropropane)	2.248	1.911		-15.0	
Acetophenone	0.490	0.475		-3.1	
3+4-Methylphenols	1.424	1.308		-8.1	
n-Nitroso-di-n-propylamine	1.004	0.873	0.050	-13.0	
Nitrobenzene-d5	0.361	0.380		5.3	
Hexachloroethane	0.534	0.520		-2.6	
Nitrobenzene	0.396	0.399		0.8	
Isophorone	0.685	0.645		-5.8	
2-Nitrophenol	0.149	0.164		10.1	20.0
2,4-Dimethylphenol	0.249	0.232		-6.8	
bis(2-Chloroethoxy)methane	0.415	0.393		-5.3	
2,4-Dichlorophenol	0.283	0.279		-1.4	20.0
Naphthalene	1.031	1.028		-0.3	
4-Chloroaniline	0.352	0.343		-2.6	
Hexachlorobutadiene	0.197	0.204		3.6	20.0
Caprolactam	0.090	0.088		-2.2	
4-Chloro-3-methylphenol	0.314	0.307		-2.2	20.0
2-Methylnaphthalene	0.632	0.618		-2.2	
Hexachlorocyclopentadiene	0.188	0.191	0.050	1.6	
2,4,6-Trichlorophenol	0.382	0.374		-2.1	20.0
2-Fluorobiphenyl	1.210	1.211		0.1	
2,4,5-Trichlorophenol	0.394	0.414		5.1	
1,1-Biphenyl	1.392	1.391		-0.1	
2-Chloronaphthalene	1.121	1.129		0.7	
2-Nitroaniline	0.343	0.375		9.3	
Dimethylphthalate	1.246	1.229		-1.4	
Acenaphthylene	1.621	1.628		0.4	
2,6-Dinitrotoluene	0.270	0.290		7.4	
3-Nitroaniline	0.278	0.298		7.2	
Acenaphthene	1.049	1.058		0.9	20.0
2,4-Dinitrophenol	0.093	0.126	0.050	35.5	
4-Nitrophenol	0.214	0.229	0.050	7.0	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4471 SAS No.: P4471 SDG No.: P4471

Instrument ID: BNA_F Calibration Date/Time: 10/26/2024 10:38

Lab File ID: BF140050.D Init. Calib. Date(s): 10/18/2024 10/18/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:27 13:46

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.505	1.491		-0.9	
2,4-Dinitrotoluene	0.332	0.383		15.4	
Diethylphthalate	1.223	1.181		-3.4	
4-Chlorophenyl-phenylether	0.579	0.581		0.3	
Fluorene	1.146	1.149		0.3	
4-Nitroaniline	0.263	0.289		9.9	
4,6-Dinitro-2-methylphenol	0.082	0.104		26.8	
n-Nitrosodiphenylamine	0.599	0.572		-4.5	20.0
2,4,6-Tribromophenol	0.187	0.204		9.1	
4-Bromophenyl-phenylether	0.206	0.202		-1.9	
Hexachlorobenzene	0.232	0.233		0.4	
Atrazine	0.162	0.156		-3.7	
Pentachlorophenol	0.141	0.152		7.8	20.0
Phenanthrene	0.945	0.913		-3.4	
Anthracene	0.922	0.901		-2.3	
Carbazole	0.857	0.832		-2.9	
Di-n-butylphthalate	0.990	0.946		-4.4	
Fluoranthene	0.955	0.965		1.0	20.0
Pyrene	1.751	1.811		3.4	
Terphenyl-d14	1.227	1.258		2.5	
Butylbenzylphthalate	0.525	0.551		5.0	
3,3-Dichlorobenzidine	0.380	0.409		7.6	
Benzo(a)anthracene	1.302	1.311		0.7	
Chrysene	1.194	1.157		-3.1	
Bis(2-ethylhexyl)phthalate	0.589	0.606		2.9	
Di-n-octyl phthalate	1.071	0.894		-16.5	20.0
Benzo(b)fluoranthene	1.218	1.154		-5.3	
Benzo(k)fluoranthene	1.051	1.063		1.1	
Benzo(a)pyrene	1.002	1.013		1.1	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.303		1.2	
Dibenzo(a,h)anthracene	1.073	1.070		-0.3	
Benzo(g,h,i)perylene	1.072	1.111		3.6	
1,2,4,5-Tetrachlorobenzene	0.540	0.555		2.8	
1,4-Dioxane	0.596	0.584		-2.0	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.315		1.9	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140011.D
Acq On : 24 Oct 2024 20:08
Operator : RC/JU
Sample : P4471-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Quant Time: Oct 25 01:09:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

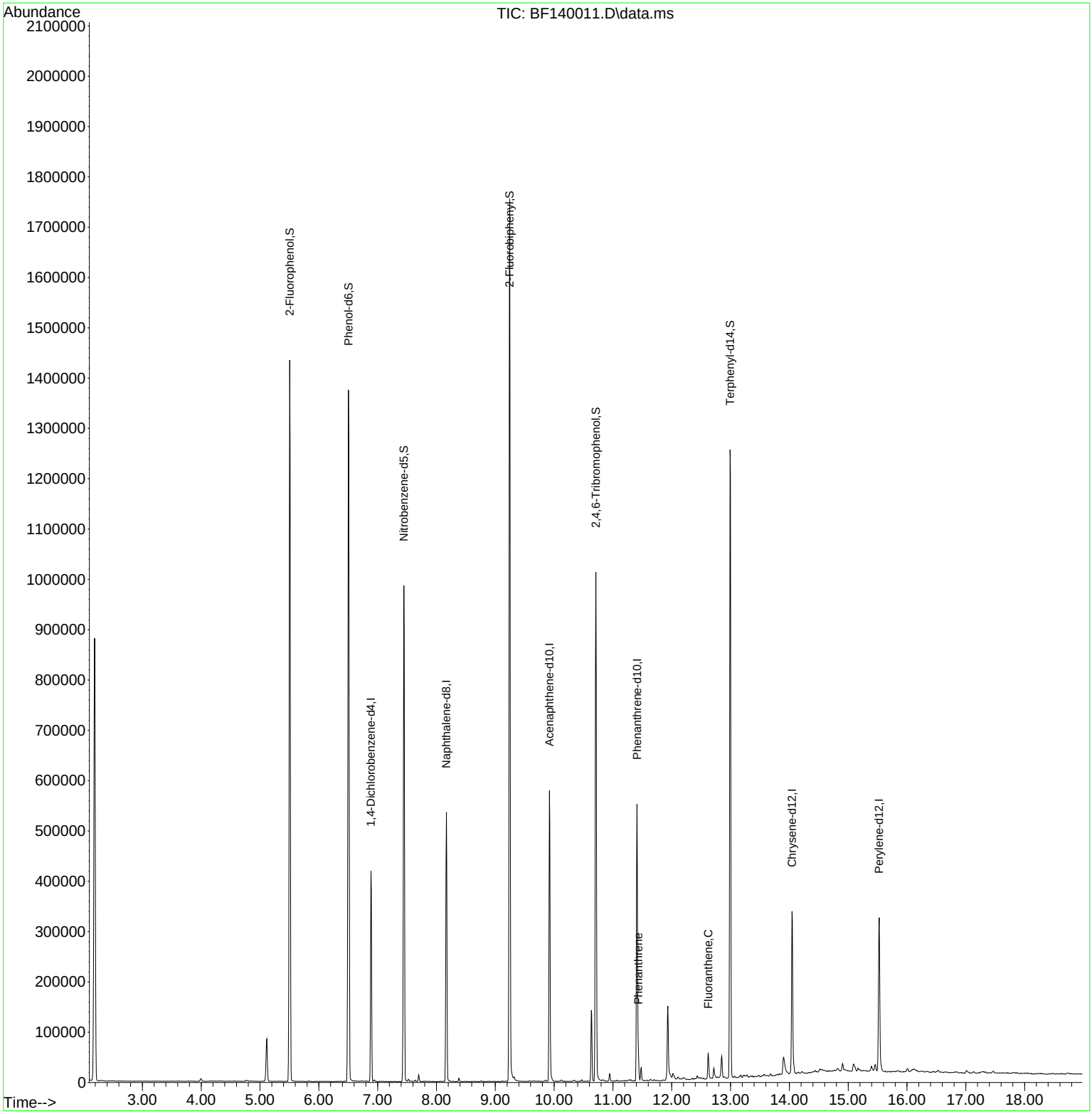
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	82696	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	315895	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	171301	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	285460	20.000	ng	0.00
76) Chrysene-d12	14.045	240	149838	20.000	ng	0.00
86) Perylene-d12	15.527	264	184288	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	513131	97.139	ng	0.00
7) Phenol-d6	6.504	99	639567	93.482	ng	0.00
23) Nitrobenzene-d5	7.445	82	431803	75.760	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	165875	103.523	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	780599	75.312	ng	0.00
79) Terphenyl-d14	12.992	244	626830	68.167	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.433	178	29353	2.177	ng	99
75) Fluoranthene	12.621	202	28237	2.071	ng	97

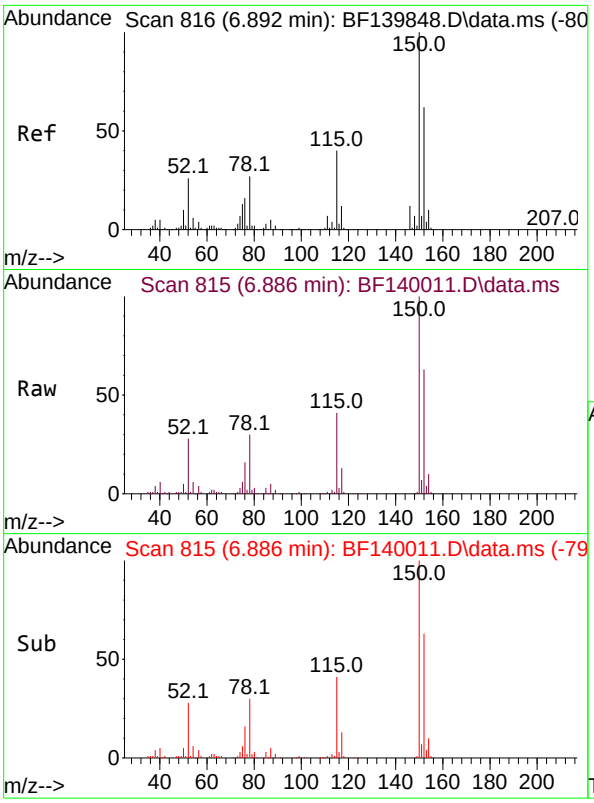
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140011.D
Acq On : 24 Oct 2024 20:08
Operator : RC/JU
Sample : P4471-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Quant Time: Oct 25 01:09:10 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



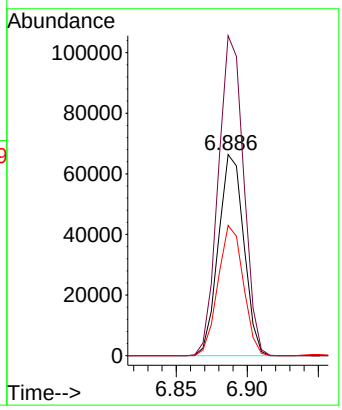


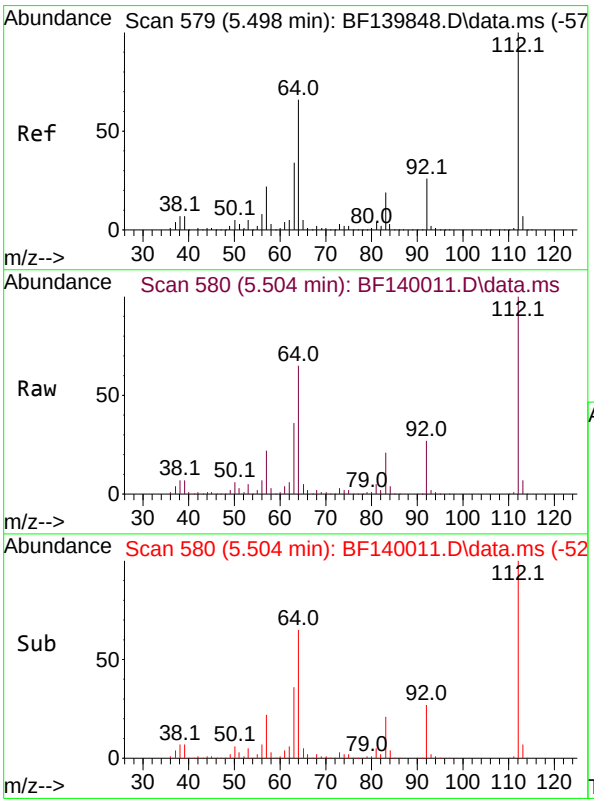
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Tgt Ion:152 Resp: 82696

Ion	Ratio	Lower	Upper
152	100		
150	159.1	130.2	195.2
115	64.7	51.4	77.2

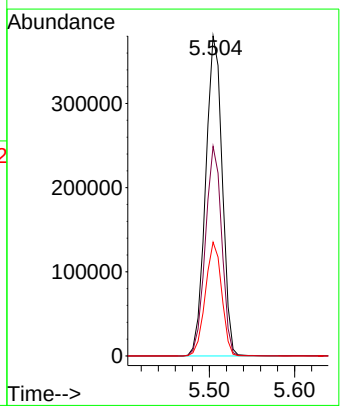


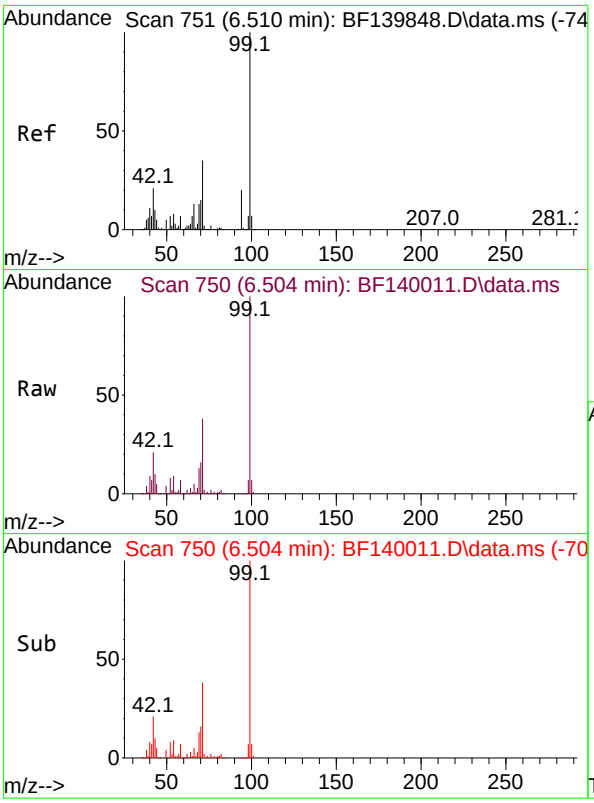


#5
2-Fluorophenol
Concen: 97.139 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Tgt Ion:112 Resp: 513131

Ion	Ratio	Lower	Upper
112	100		
64	65.5	53.0	79.6
63	35.5	27.0	40.4



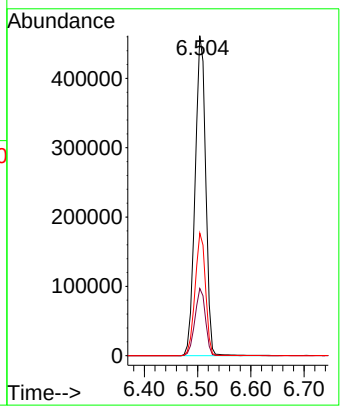


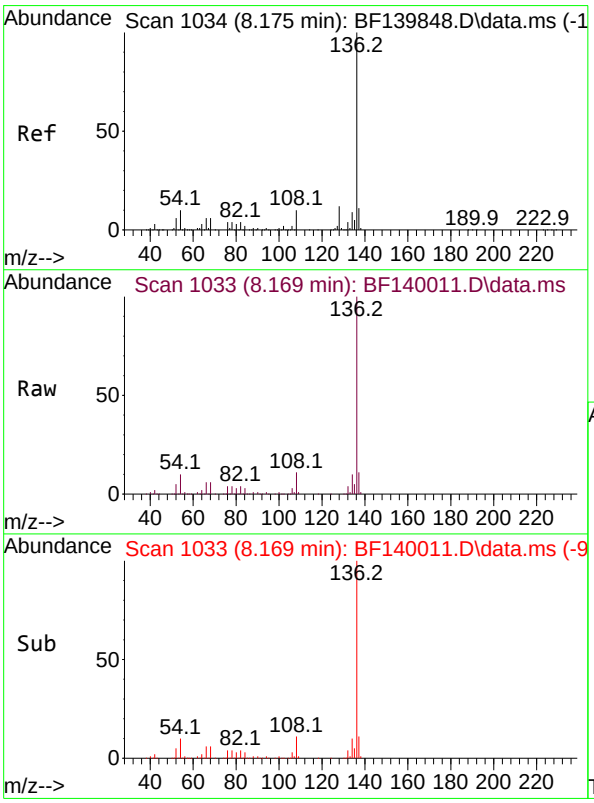
#7
Phenol-d6
Concen: 93.482 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Tgt Ion: 99 Resp: 639567

Ion	Ratio	Lower	Upper
99	100		
42	21.0	16.7	25.1
71	38.3	27.7	41.5

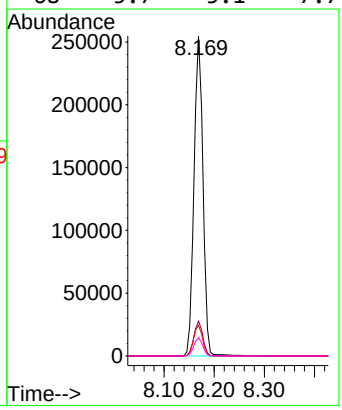


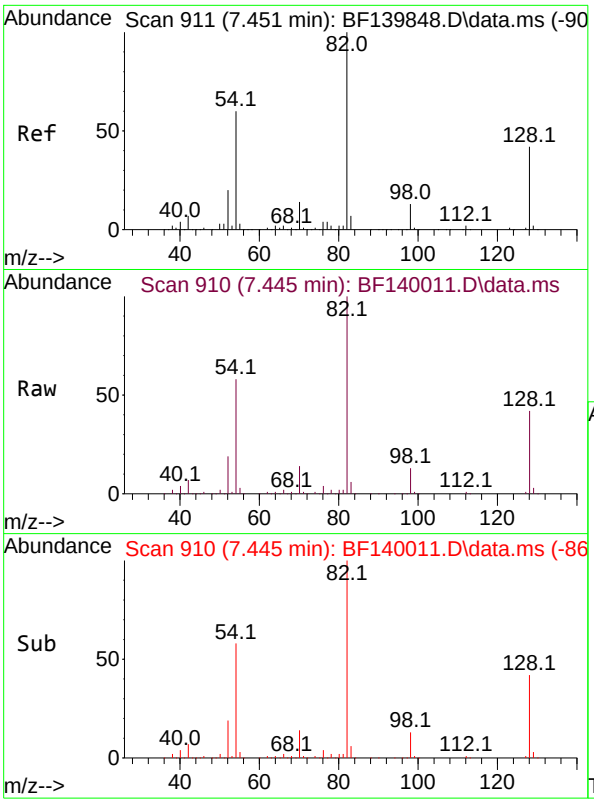


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Tgt Ion:136 Resp: 315895

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	12.8
54	9.6	8.4	12.6
68	5.7	5.1	7.7



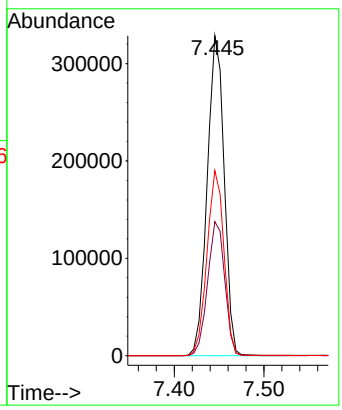


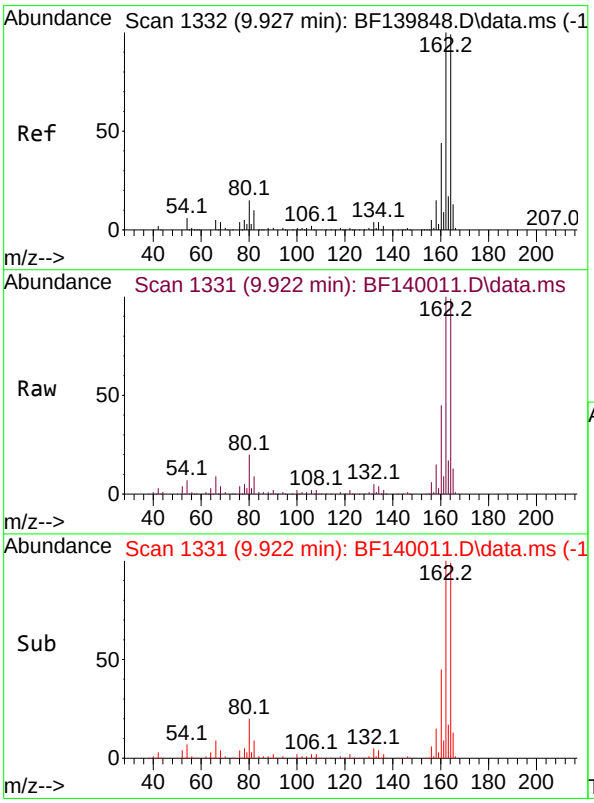
#23
Nitrobenzene-d5
Concen: 75.760 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Tgt Ion: 82 Resp: 431803

Ion	Ratio	Lower	Upper
82	100		
128	41.9	33.4	50.0
54	57.9	47.8	71.8

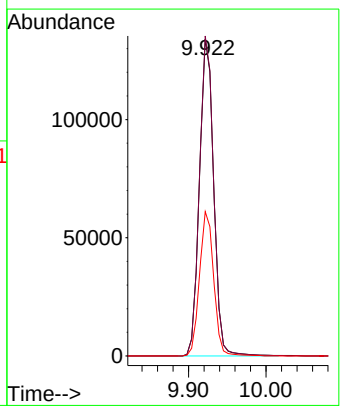


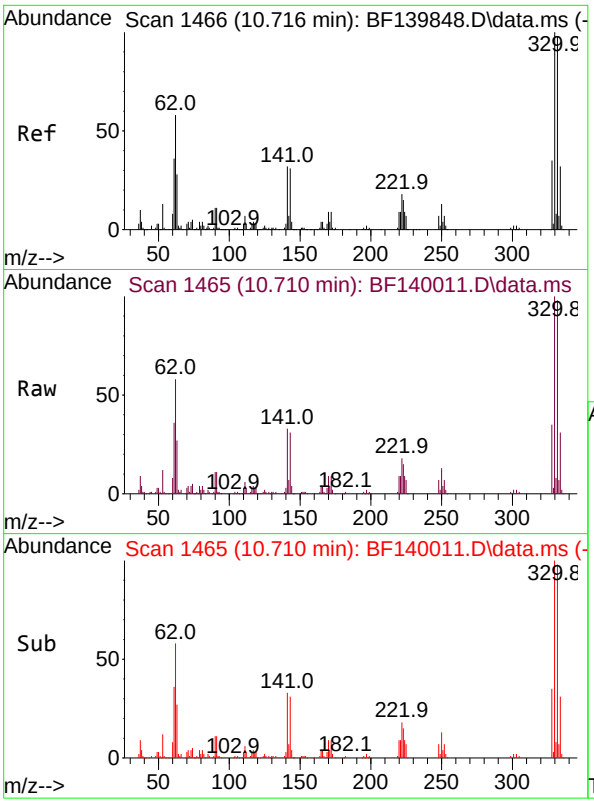


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Tgt Ion:164 Resp: 171301

Ion	Ratio	Lower	Upper
164	100		
162	101.0	81.0	121.4
160	45.5	35.4	53.0



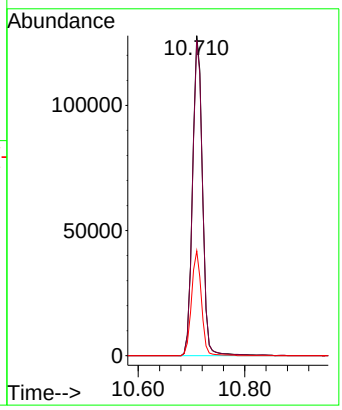


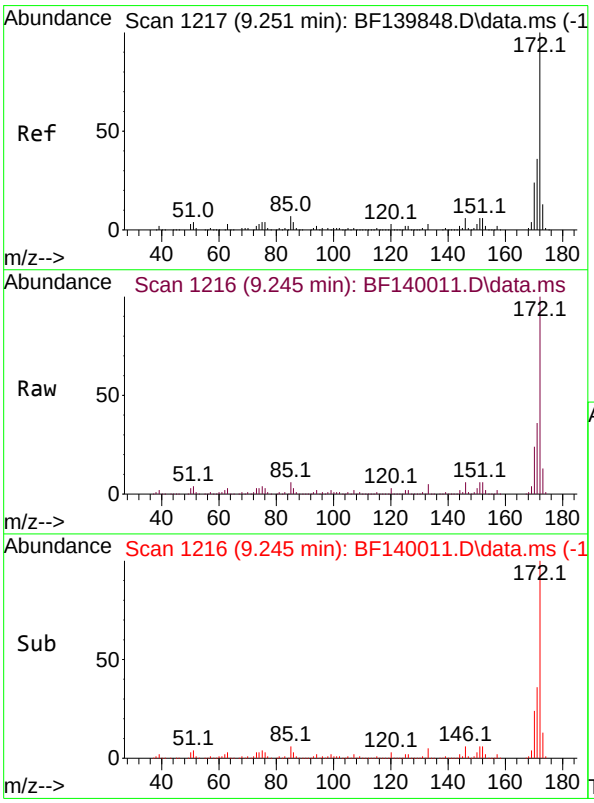
#42
2,4,6-Tribromophenol
Concen: 103.523 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Tgt Ion:330 Resp: 165875

Ion	Ratio	Lower	Upper
330	100		
332	98.5	78.1	117.1
141	32.5	26.6	39.8

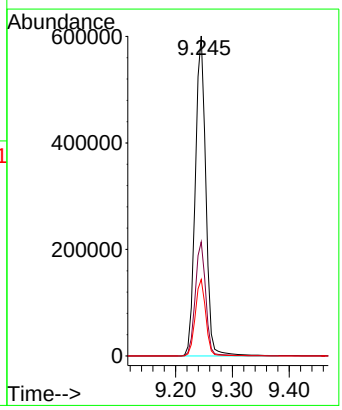


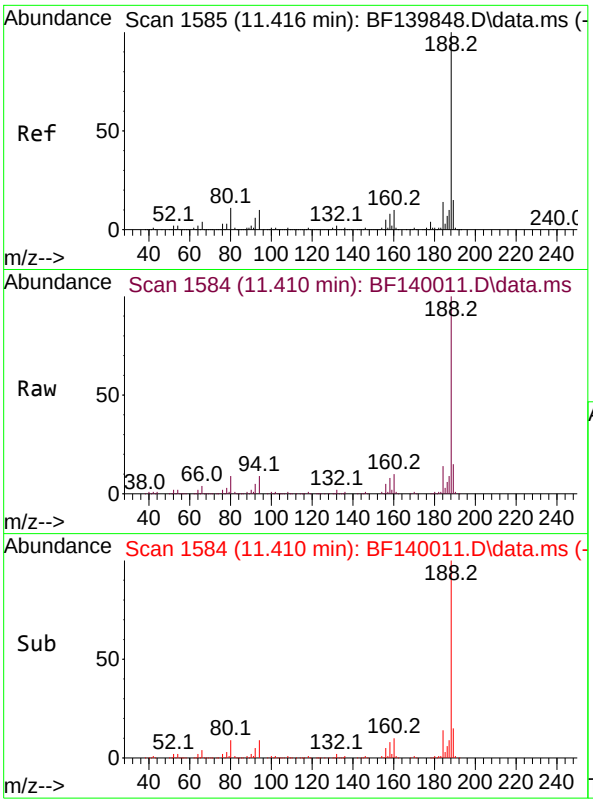


#45
2-Fluorobiphenyl
Concen: 75.312 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Tgt Ion:172 Resp: 780599

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	43.0
170	23.9	19.1	28.7



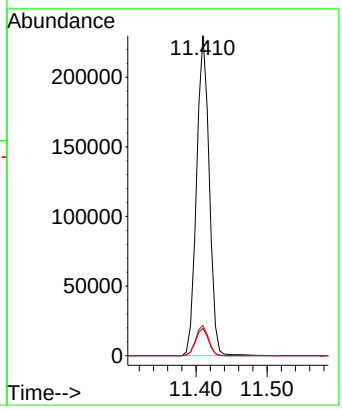


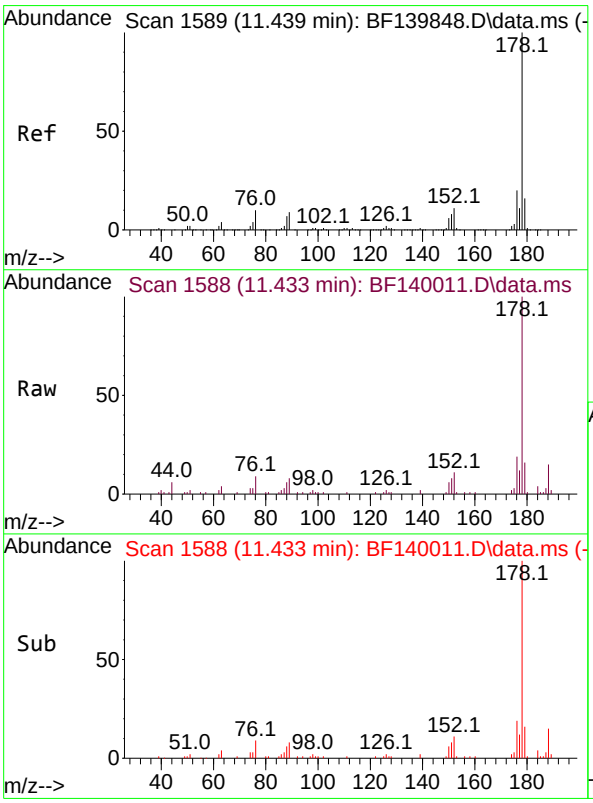
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Tgt Ion:188 Resp: 285460

Ion	Ratio	Lower	Upper
188	100		
94	8.5	7.9	11.9
80	9.5	9.0	13.4

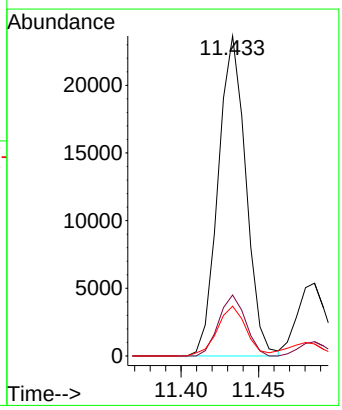


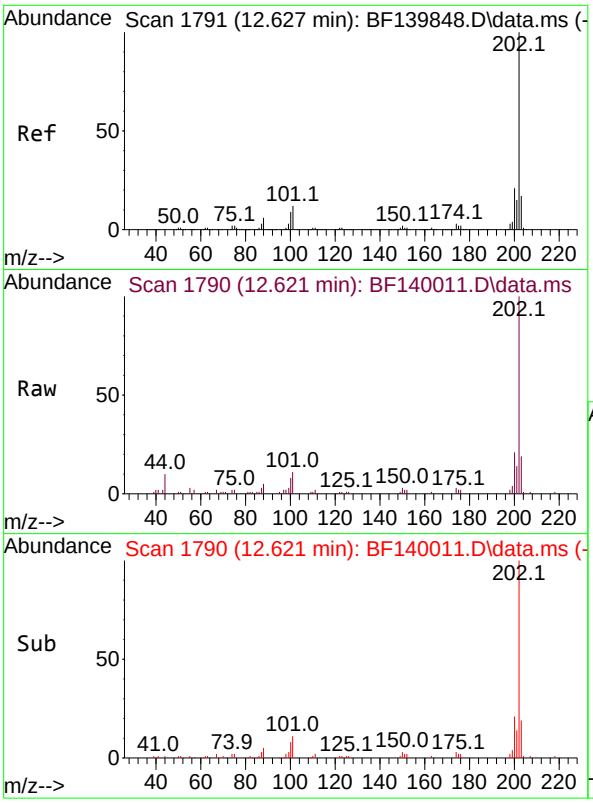


#71
Phenanthrene
Concen: 2.177 ng
RT: 11.433 min Scan# 1588
Delta R.T. -0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Tgt Ion:178 Resp: 29353

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.8	23.6
179	15.5	12.6	18.8



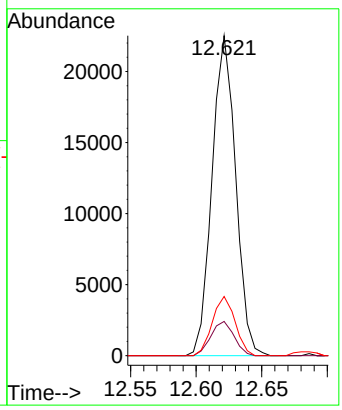


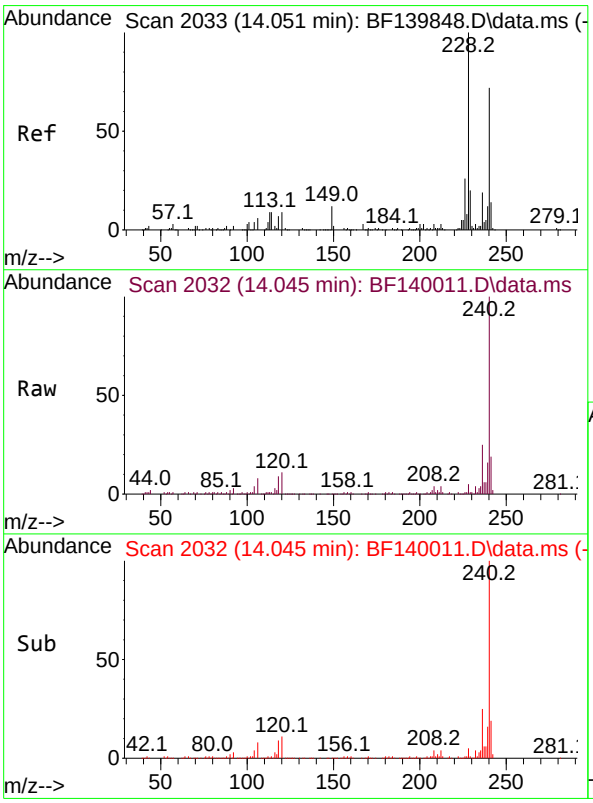
#75
Fluoranthene
Concen: 2.071 ng
RT: 12.621 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Tgt Ion:202 Resp: 28237

Ion	Ratio	Lower	Upper
202	100		
101	10.7	0.0	31.9
203	18.5	0.0	37.5

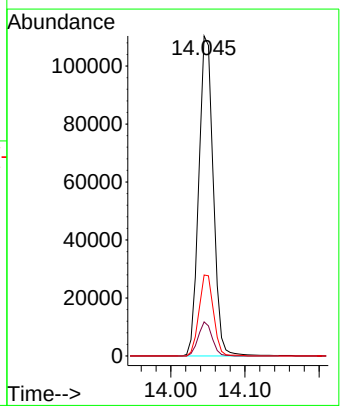


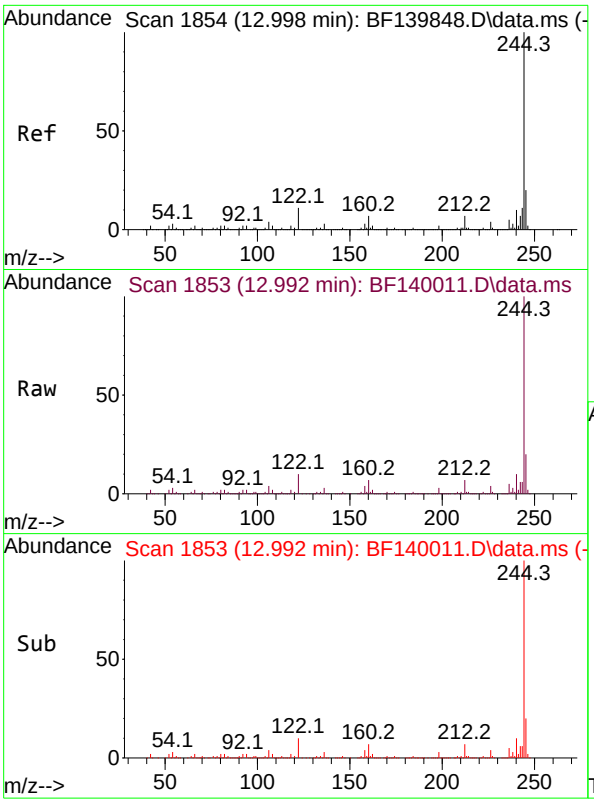


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Tgt Ion:240 Resp: 149838

Ion	Ratio	Lower	Upper
240	100		
120	10.6	9.4	14.2
236	25.3	20.9	31.3



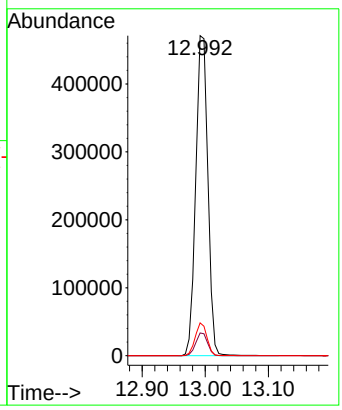


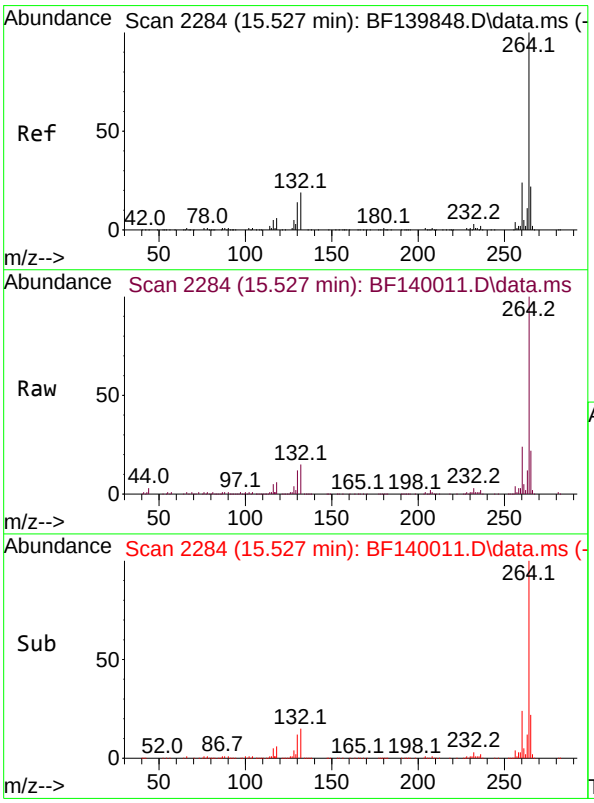
#79
Terphenyl-d14
Concen: 68.167 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Tgt Ion:244 Resp: 626830

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.7	8.5
122	10.2	8.6	13.0

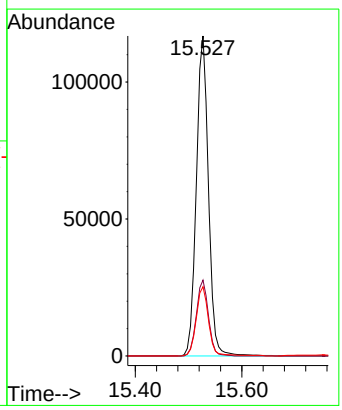




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. -0.000 min
Lab File: BF140011.D
Acq: 24 Oct 2024 20:08

Tgt Ion:264 Resp: 184288

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.4	29.2
265	21.7	17.4	26.0



Sample Results: **BF140011.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140011.D
Acq On : 24 Oct 2024 20:08
Operator : RC/JU
Sample : P4471-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140011.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.187	8	16	26	rVB	879577	1399066	61.79%	8.632%
2	5.116	506	514	525	rVB	83721	135040	5.96%	0.833%
3	5.504	574	580	585	rBV	1433613	1915455	84.60%	11.818%
4	6.504	744	750	756	rBV	1374639	1903204	84.06%	11.742%
5	6.886	810	815	820	rBV	418428	513151	22.66%	3.166%
6	7.445	904	910	915	rBV	985876	1293053	57.11%	7.978%
7	8.169	1028	1033	1038	rBV	534957	654773	28.92%	4.040%
8	9.245	1210	1216	1227	rBV	1754191	2264133	100.00%	13.969%
9	9.922	1326	1331	1347	rVB	577623	732588	32.36%	4.520%
10	10.633	1447	1452	1460	rBV	140896	180615	7.98%	1.114%
11	10.710	1460	1465	1482	rVV	1011179	1293578	57.13%	7.981%
12	11.410	1579	1584	1592	rBV	550615	746590	32.97%	4.606%
13	11.480	1592	1596	1600	rVB2	25021	31705	1.40%	0.196%
14	11.933	1665	1673	1685	rBV3	148107	238617	10.54%	1.472%
15	12.021	1685	1688	1698	rVB3	11108	23650	1.04%	0.146%
16	12.621	1785	1790	1797	rBV	51815	67796	2.99%	0.418%
17	12.715	1802	1806	1814	rBV3	20407	32628	1.44%	0.201%
18	12.851	1823	1829	1834	rVB	42216	60998	2.69%	0.376%
19	12.992	1848	1853	1863	rVB	1247751	1632736	72.11%	10.073%
20	13.904	2002	2008	2022	rBV4	34237	95182	4.20%	0.587%
21	14.045	2027	2032	2044	rVB	322150	469611	20.74%	2.897%
22	15.092	2206	2210	2219	rVB	13947	33151	1.46%	0.205%
23	15.527	2278	2284	2300	rVB	306034	491092	21.69%	3.030%

Sum of corrected areas: 16208412

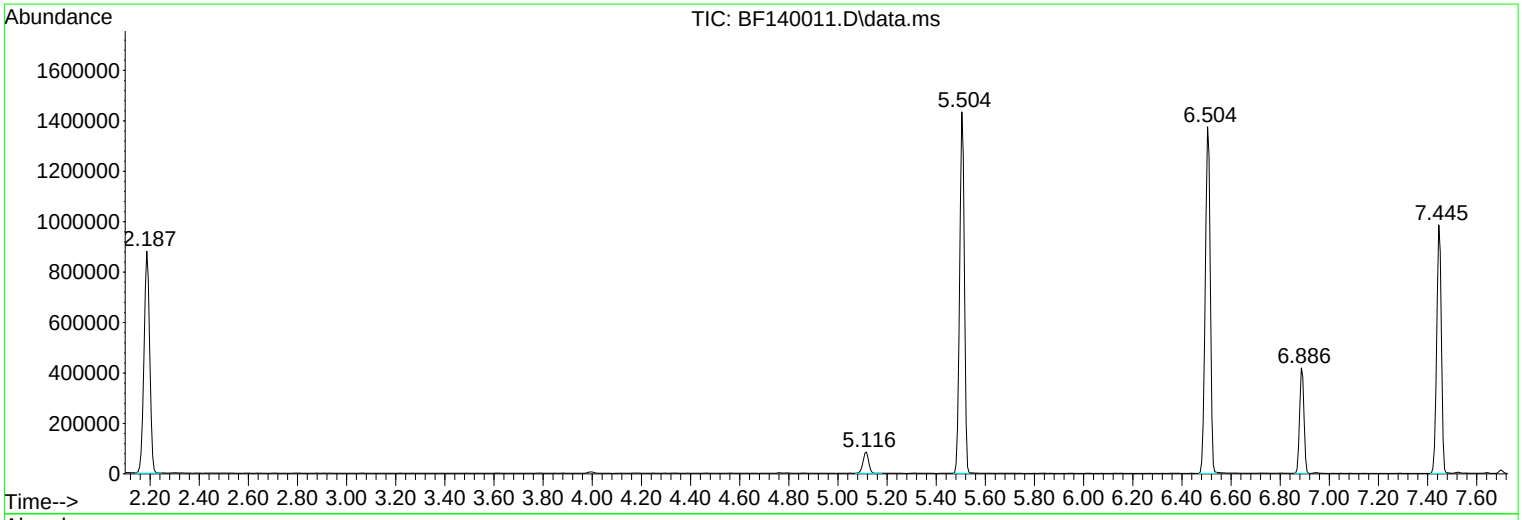
Sample Results: **BF140011.D**

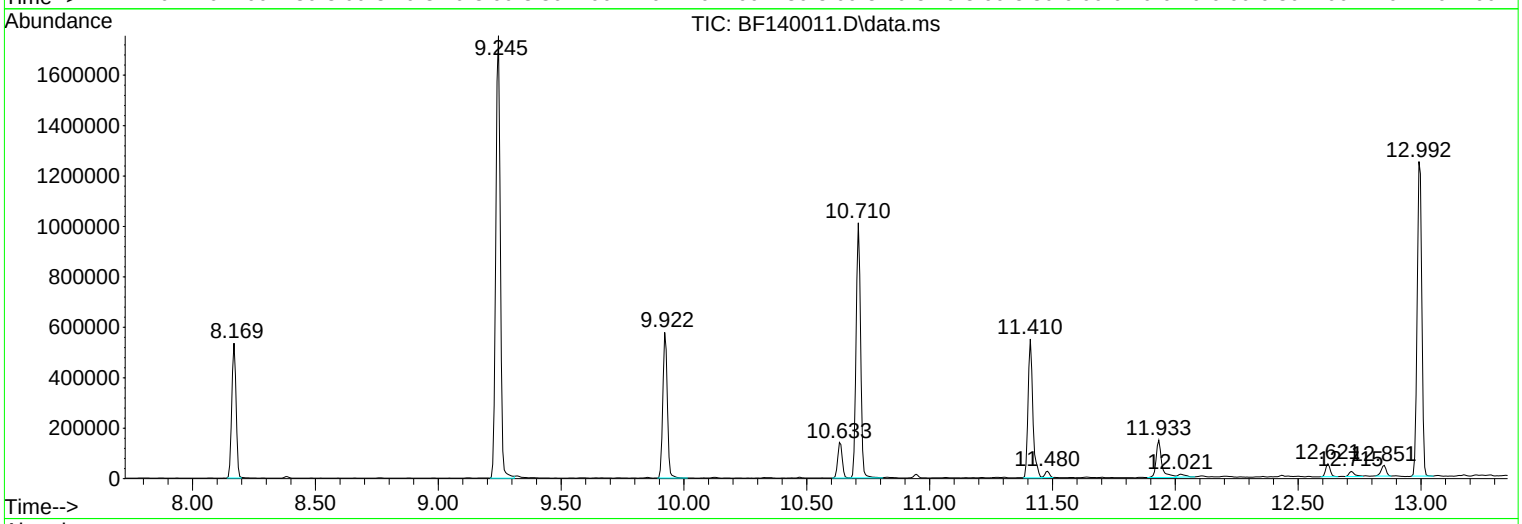
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140011.D
Acq On : 24 Oct 2024 20:08
Operator : RC/JU
Sample : P4471-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

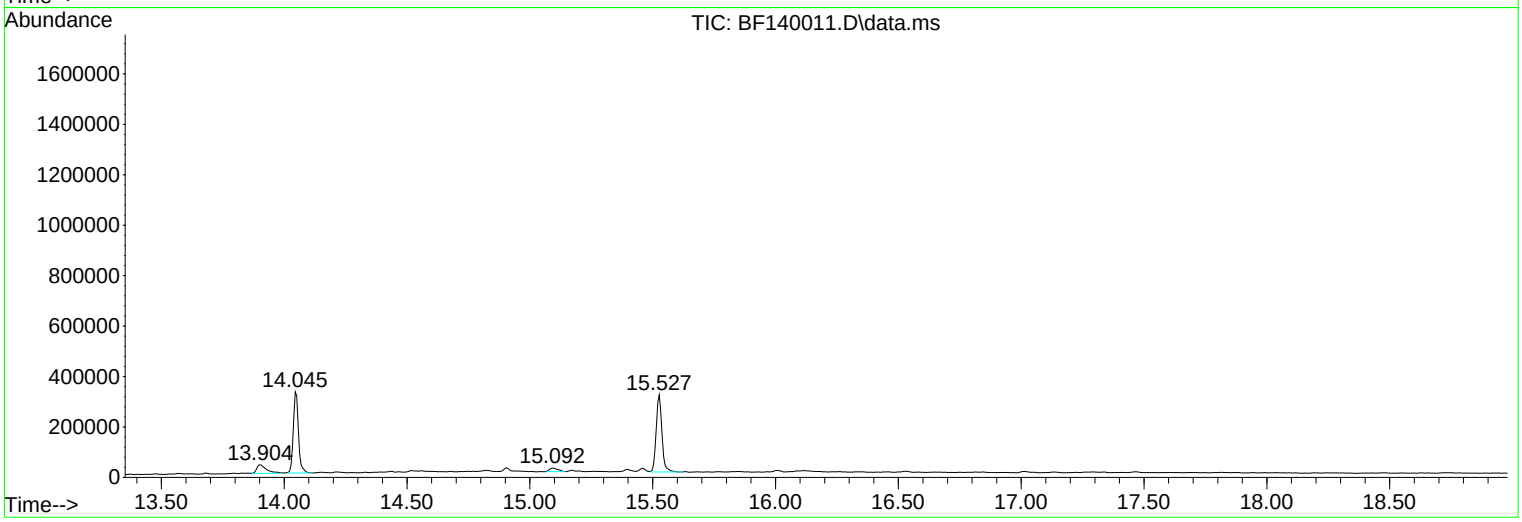
Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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\BF102424\
Data File : BF140011.D
Acq On : 24 Oct 2024 20:08
Operator : RC/JU
Sample : P4471-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

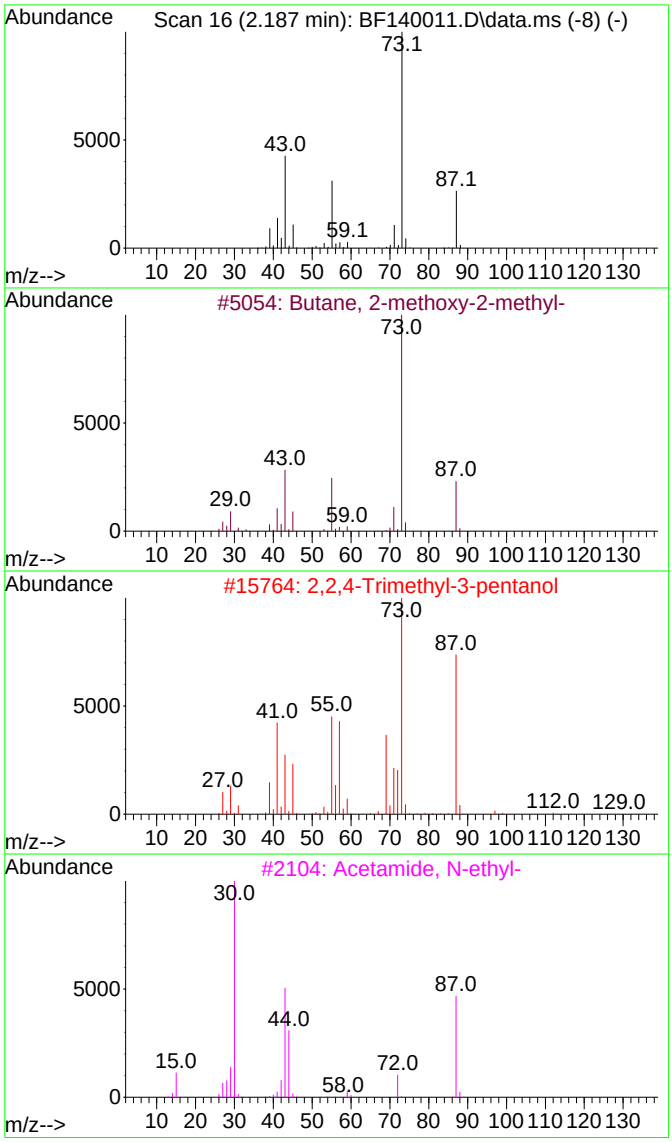
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

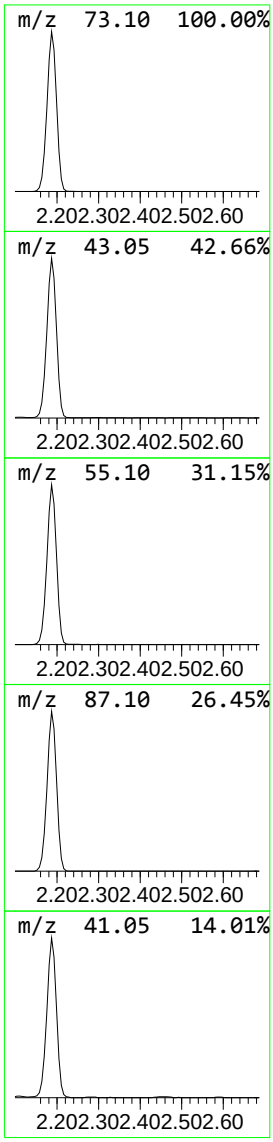
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.187	54.53 ng	1399070	1,4-Dichlorobenzene-d4	6.886

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	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17
5	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140011.D
Acq On : 24 Oct 2024 20:08
Operator : RC/JU
Sample : P4471-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

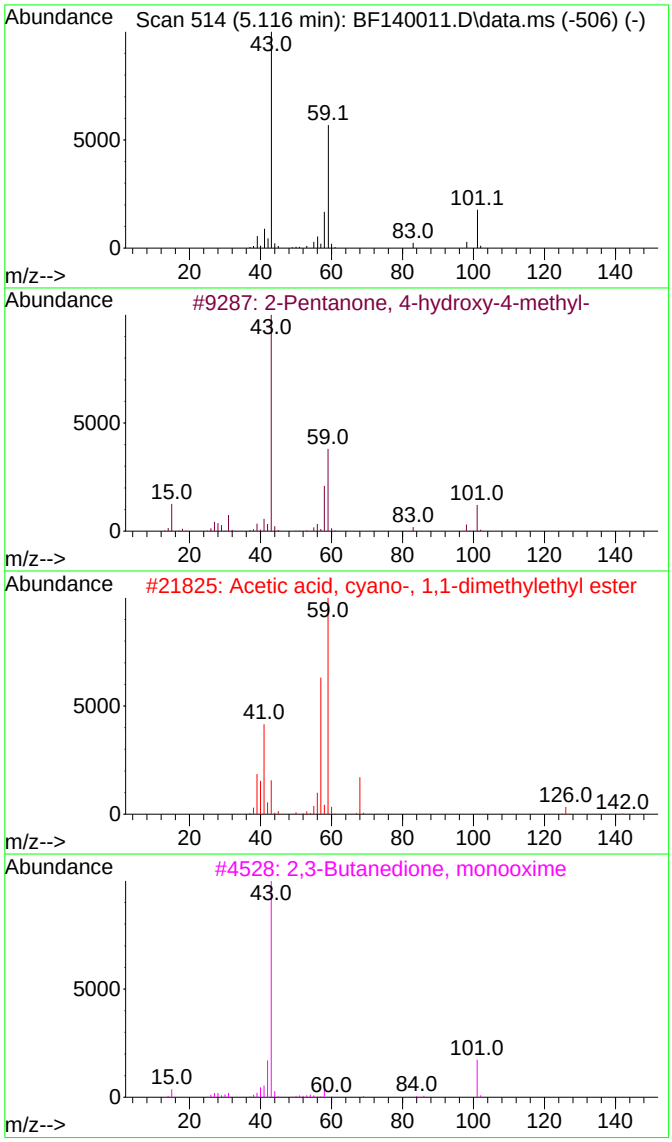
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

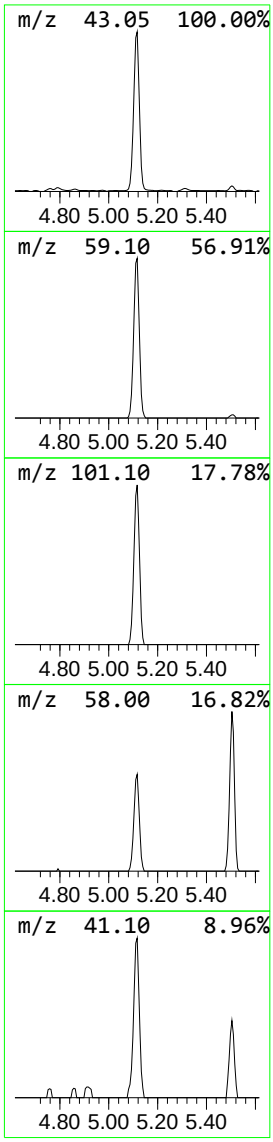
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

****
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.116	5.26 ng	135040	1,4-Dichlorobenzene-d4	6.886

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	37
3	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	16
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140011.D
Acq On : 24 Oct 2024 20:08
Operator : RC/JU
Sample : P4471-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

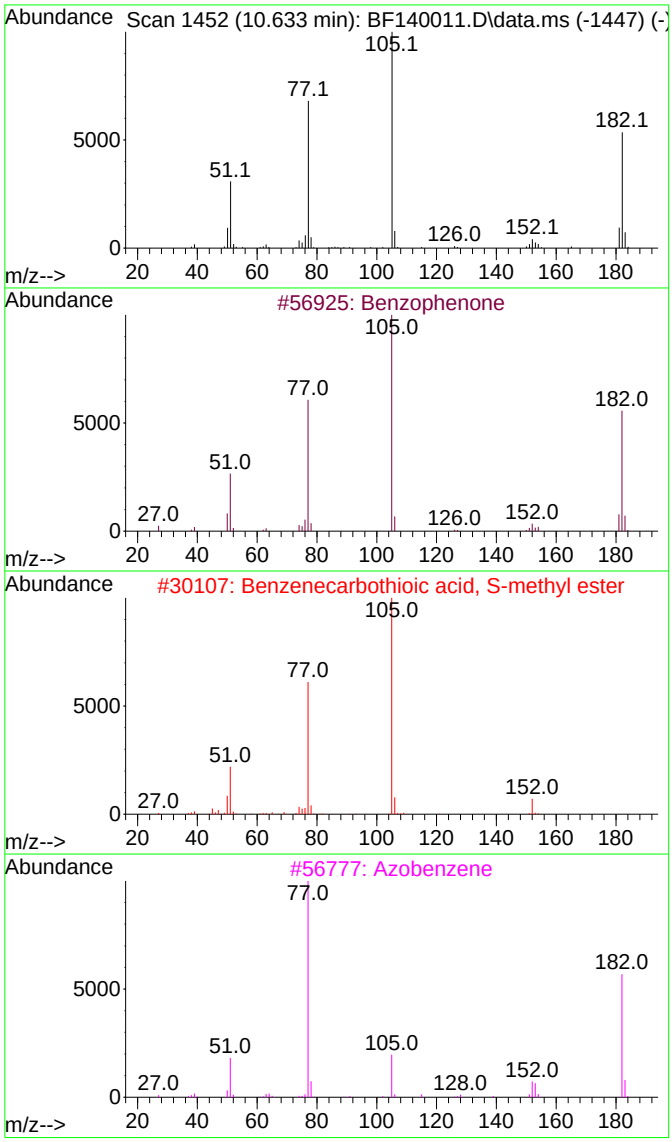
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

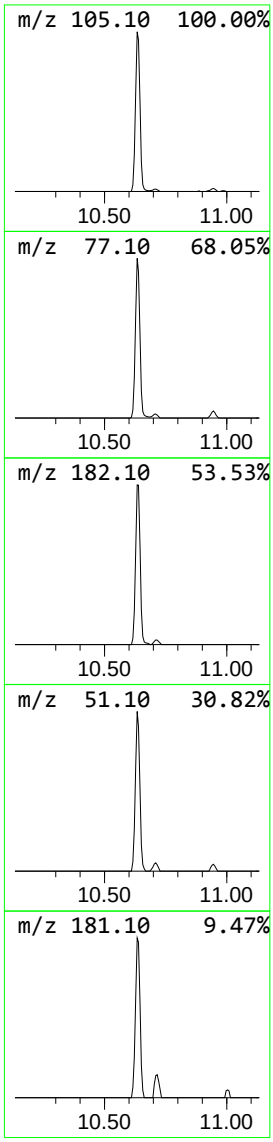
****

Peak Number 3 Benzophenone Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.633	4.93 ng	180615	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
3	Azobenzene	182	C12H10N2	000103-33-3	52
4	Benzenepropanenitrile, .beta.-oxo-	145	C9H7NO	000614-16-4	49
5	1,2-Propanedione, 1-phenyl-	148	C9H8O2	000579-07-7	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140011.D
Acq On : 24 Oct 2024 20:08
Operator : RC/JU
Sample : P4471-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

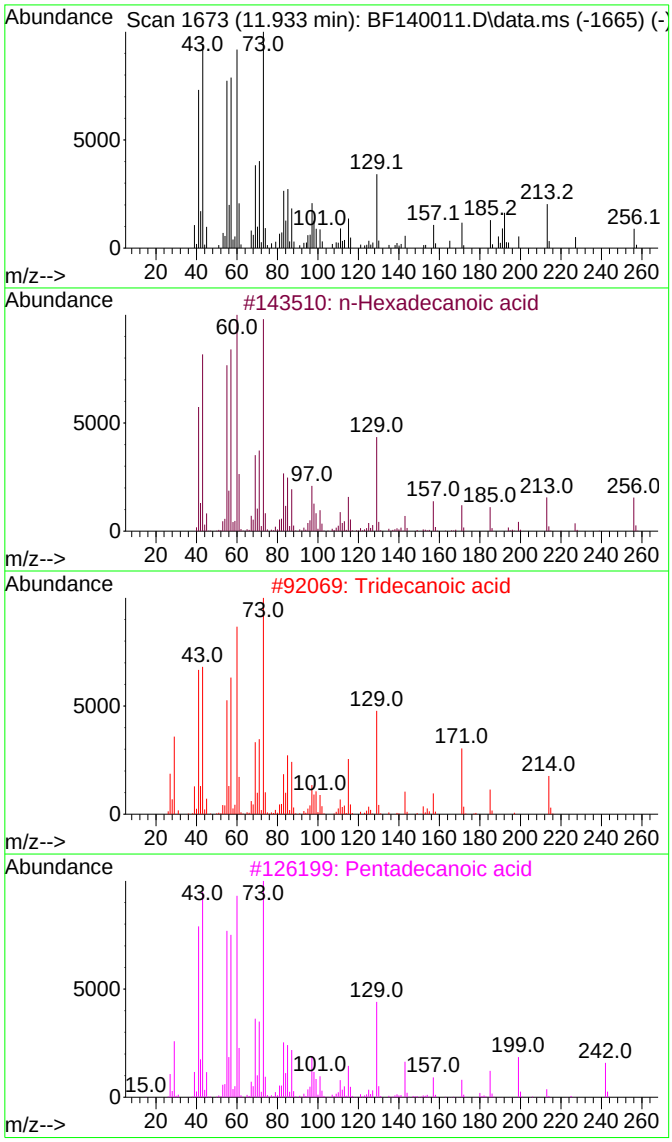
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

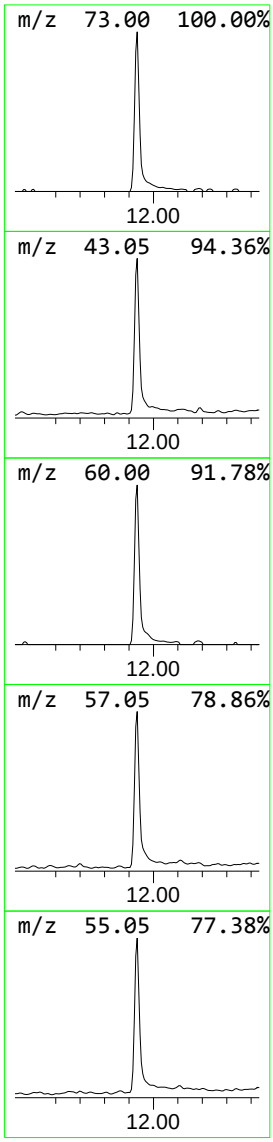
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.933	6.39 ng	238617	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Tridecanoic acid	214	C13H26O2	000638-53-9	90
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	87
4	8-Methylnonanoic acid	172	C10H20O2	005963-14-4	78
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	68





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140011.D
Acq On : 24 Oct 2024 20:08
Operator : RC/JU
Sample : P4471-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

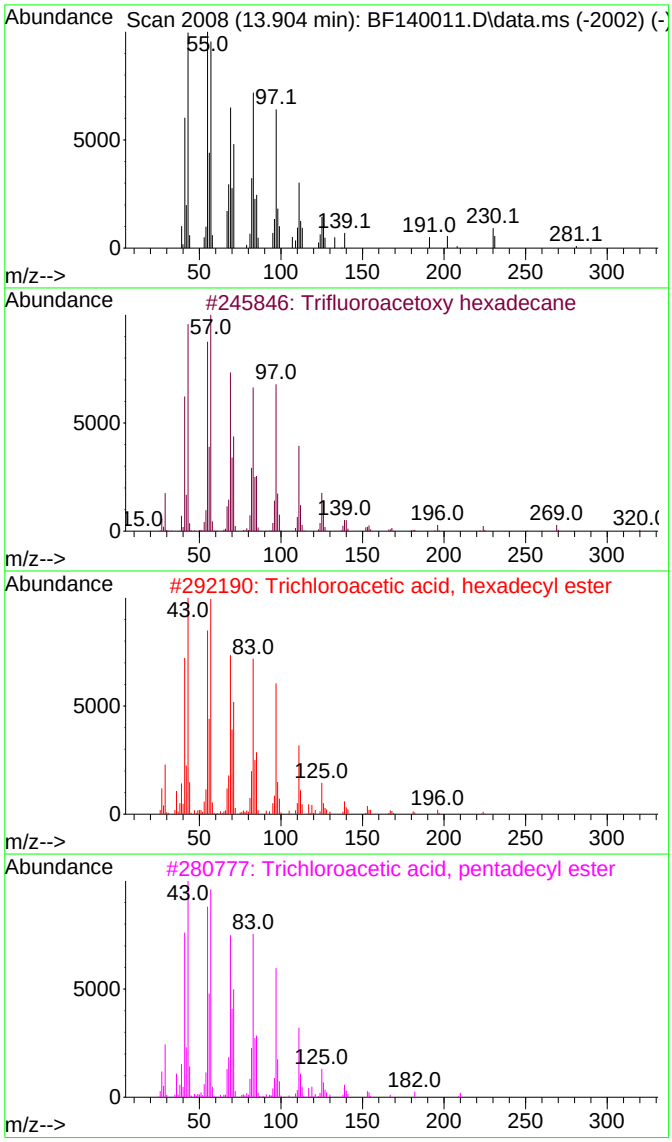
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

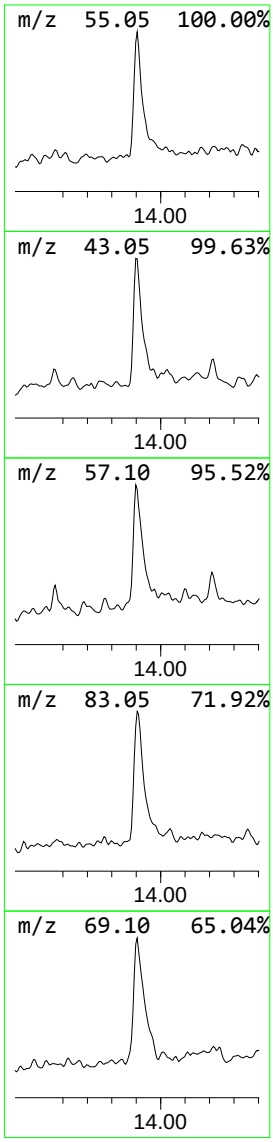
****

Peak Number 6 Trifluoroacetoxy hexadecane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.904	4.05 ng	95182	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	95
2	Trichloroacetic acid, hexadecyl ...	386	C18H33Cl3O2	074339-54-1	94
3	Trichloroacetic acid, pentadecyl...	372	C17H31Cl3O2	074339-53-0	94
4	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	93
5	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140011.D
Acq On : 24 Oct 2024 20:08
Operator : RC/JU
Sample : P4471-01
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB01

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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...	2.187	54.5	ng	1399070	1	6.886	513151	20.0
2-Pentanone, 4-...	5.116	5.3	ng	135040	1	6.886	513151	20.0
Benzophenone	10.633	4.9	ng	180615	3	9.922	732588	20.0
n-Hexadecanoic ...	11.933	6.4	ng	238617	4	11.410	746590	20.0
Trifluoroacetox...	13.904	4.0	ng	95182	5	14.045	469611	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Quant Time: Oct 28 01:09:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

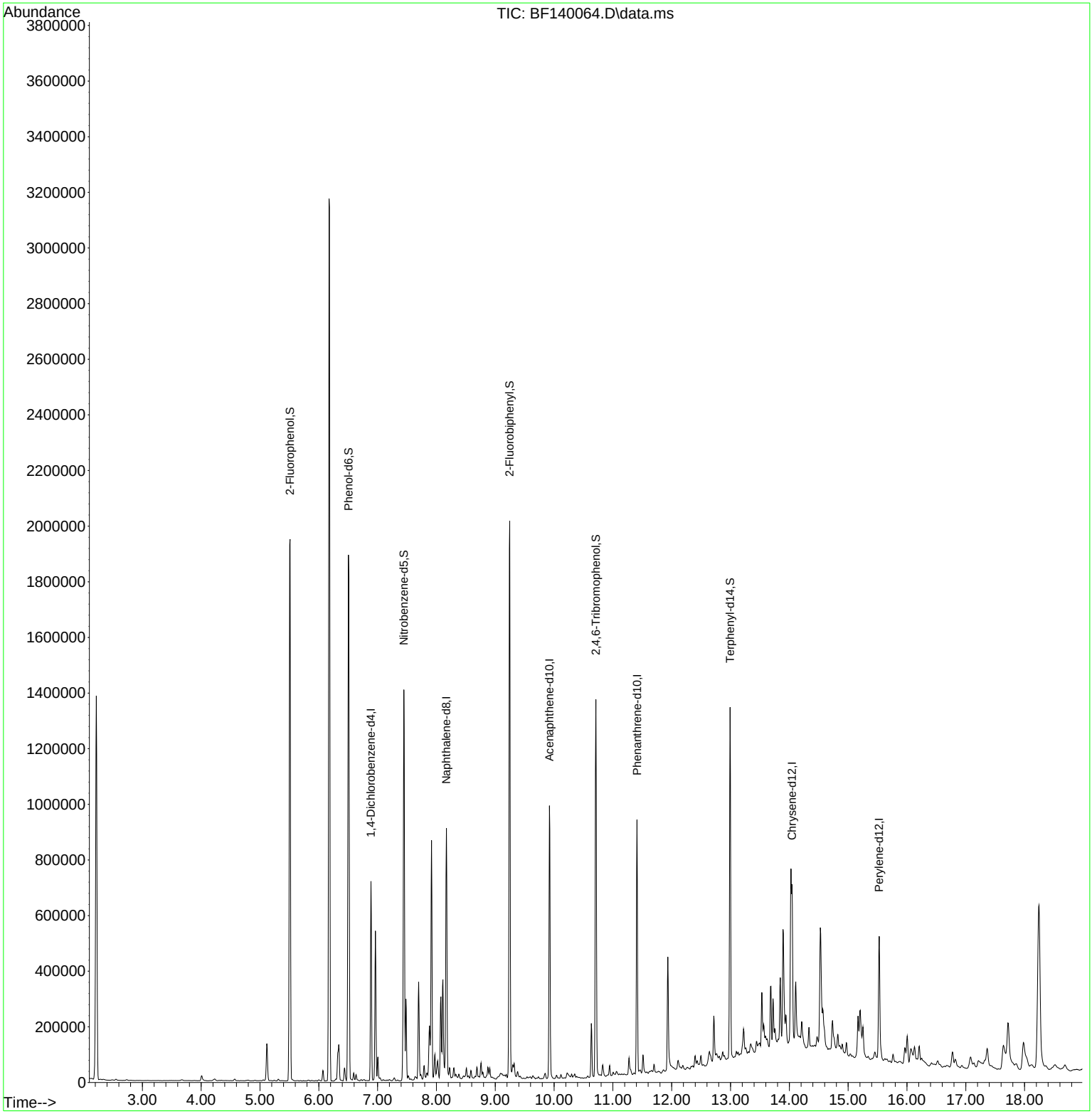
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	140732	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	538776	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	296372	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	470615	20.000	ng	0.00
76) Chrysene-d12	14.045	240	239328	20.000	ng	0.00
86) Perylene-d12	15.527	264	267329	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	755062	83.992	ng	0.01
7) Phenol-d6	6.504	99	952058	81.770	ng	0.00
23) Nitrobenzene-d5	7.445	82	653400	67.215	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	230229	83.050	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	934206	52.095	ng	0.00
79) Terphenyl-d14	12.992	244	602171	40.999	ng	0.00
Target Compounds						Qvalue

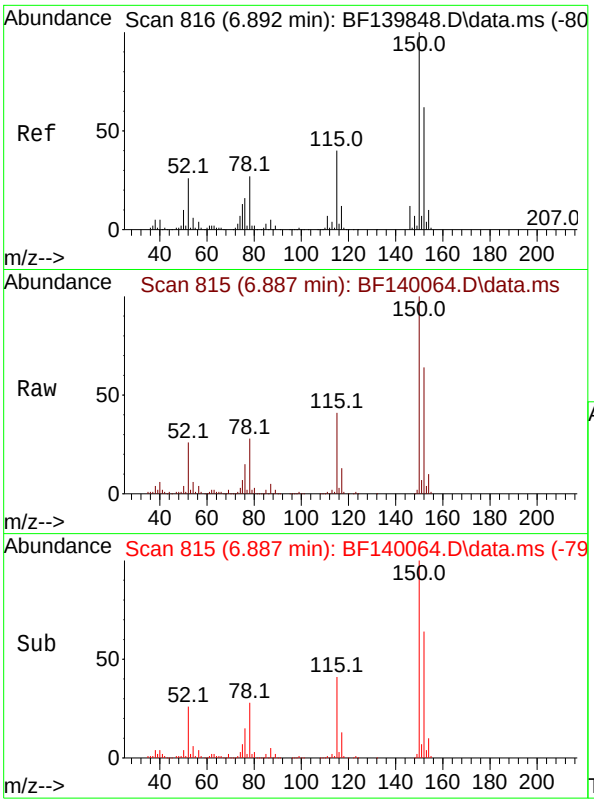
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Quant Time: Oct 28 01:09:07 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



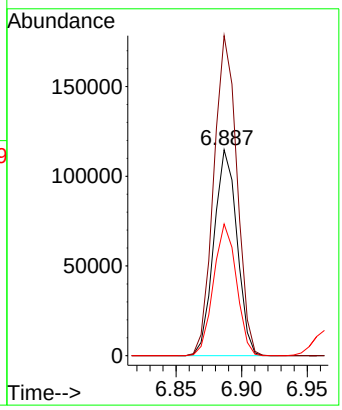


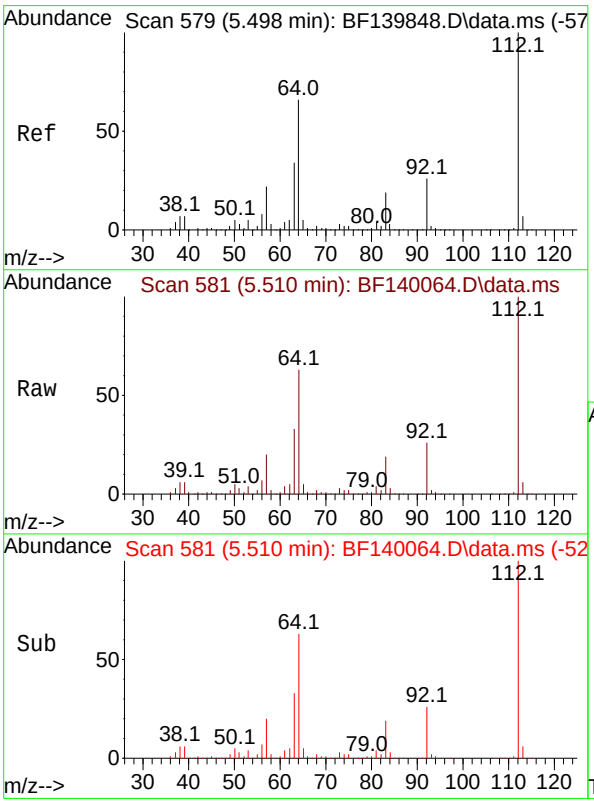
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 81
Delta R.T. -0.005 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Tgt Ion:152 Resp: 140732

Ion	Ratio	Lower	Upper
152	100		
150	155.4	130.2	195.2
115	63.9	51.4	77.2

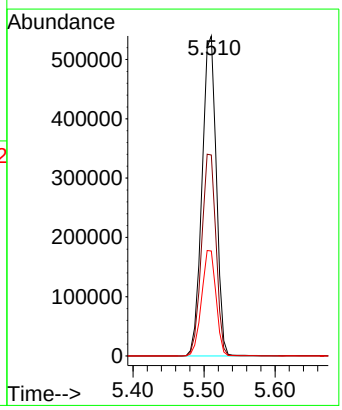


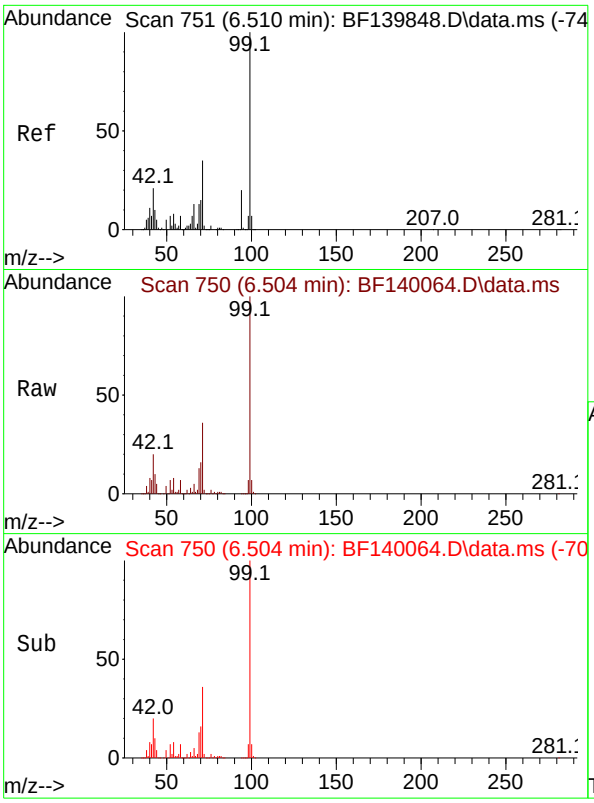


#5
2-Fluorophenol
Concen: 83.992 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.012 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Tgt Ion:112 Resp: 755062

Ion	Ratio	Lower	Upper
112	100		
64	62.8	53.0	79.6
63	32.8	27.0	40.4



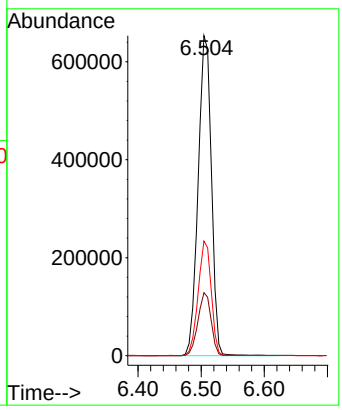


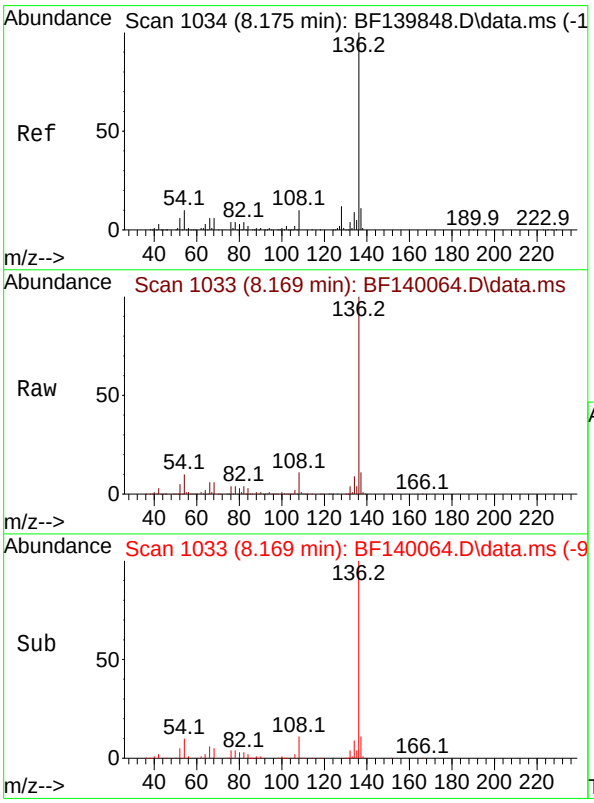
#7
Phenol-d6
Concen: 81.770 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Tgt Ion: 99 Resp: 952058

Ion	Ratio	Lower	Upper
99	100		
42	19.7	16.7	25.1
71	35.8	27.7	41.5

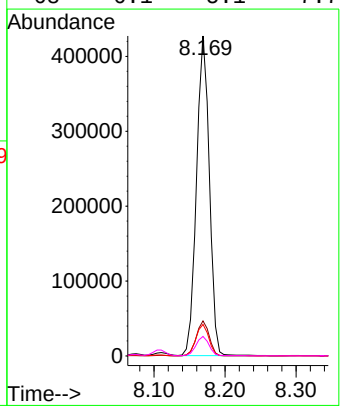


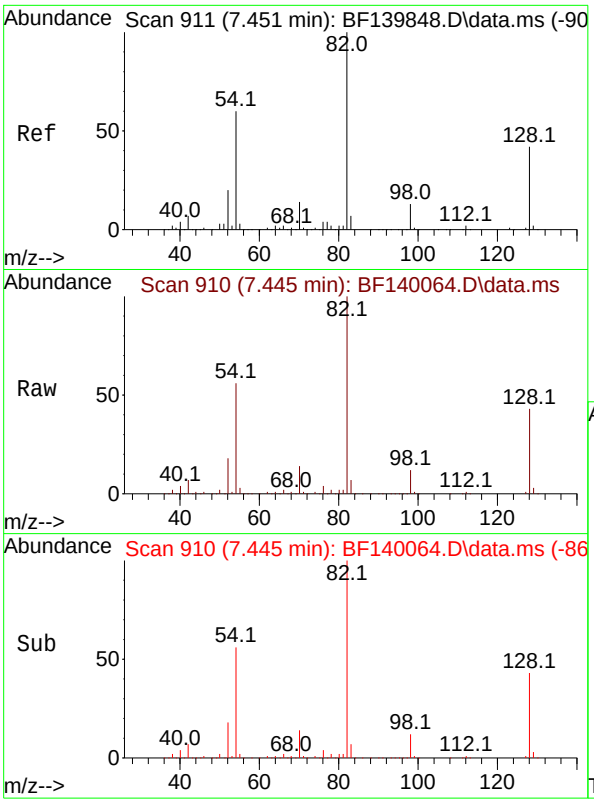


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Tgt Ion:136 Resp: 538776

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	12.8
54	9.9	8.4	12.6
68	6.1	5.1	7.7



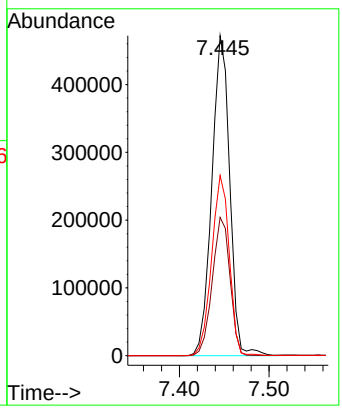


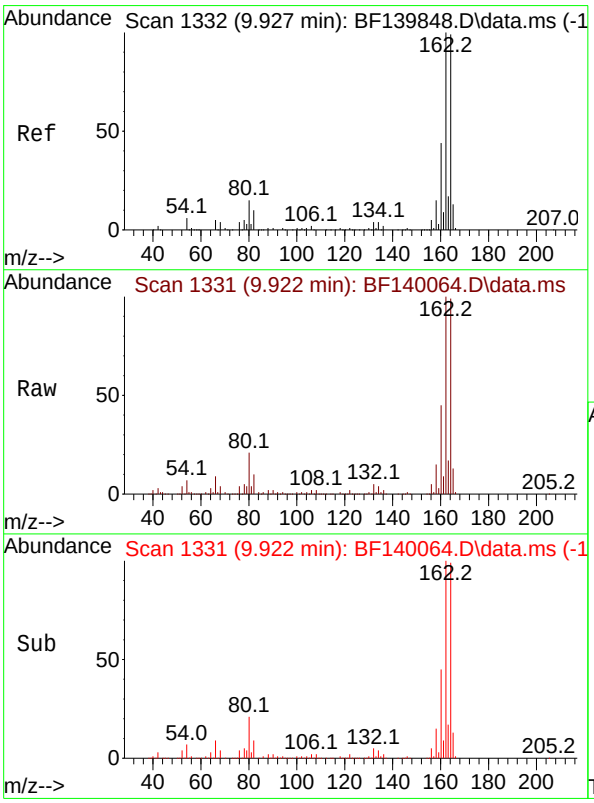
#23
Nitrobenzene-d5
Concen: 67.215 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Tgt Ion: 82 Resp: 653400

Ion	Ratio	Lower	Upper
82	100		
128	43.2	33.4	50.0
54	56.3	47.8	71.8

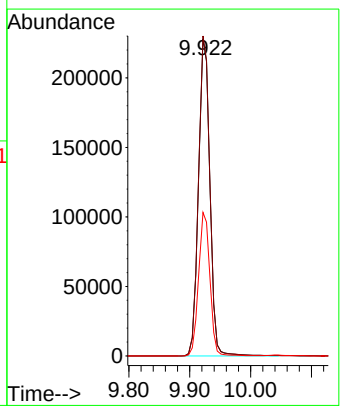


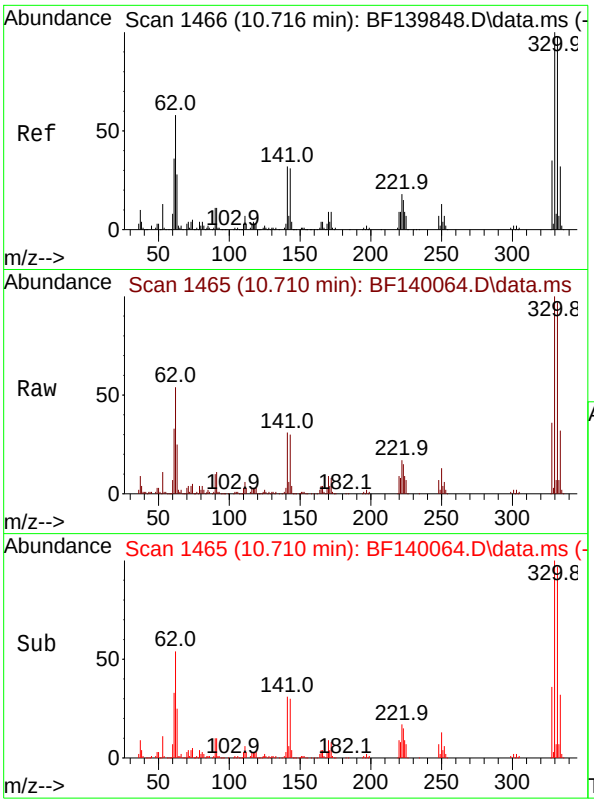


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Tgt Ion:164 Resp: 296372

Ion	Ratio	Lower	Upper
164	100		
162	100.8	81.0	121.4
160	45.2	35.4	53.0



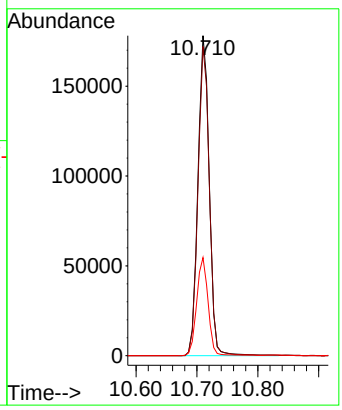


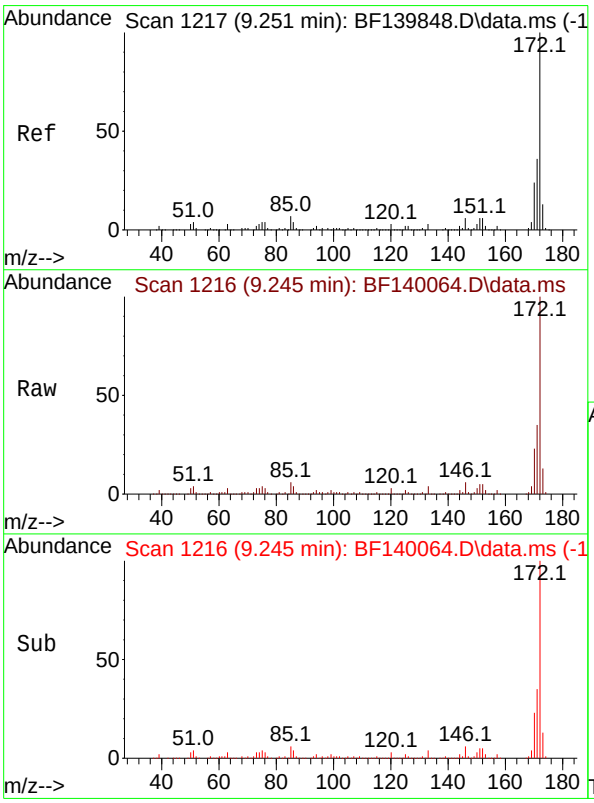
#42
2,4,6-Tribromophenol
Concen: 83.050 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Tgt Ion:330 Resp: 230229

Ion	Ratio	Lower	Upper
330	100		
332	97.2	78.1	117.1
141	31.1	26.6	39.8

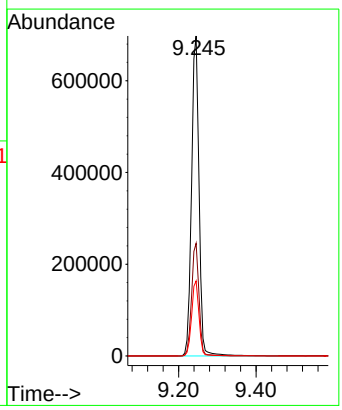


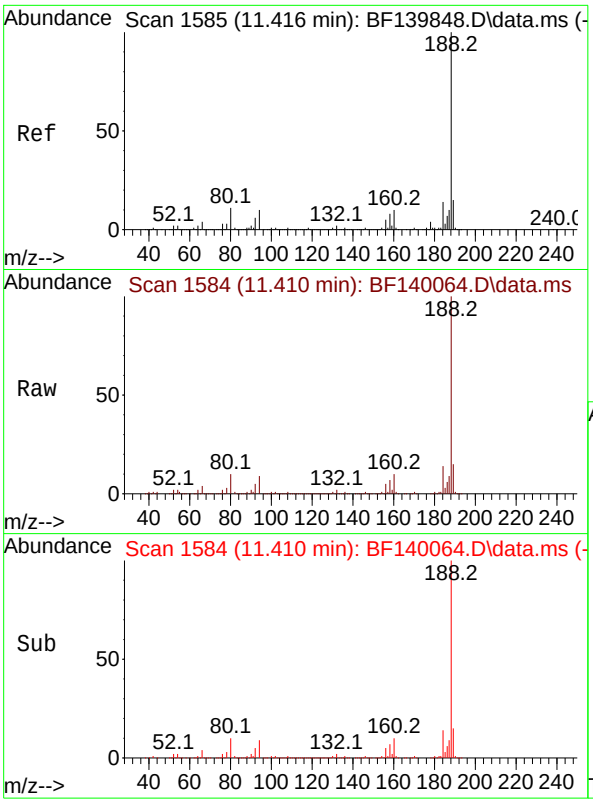


#45
2-Fluorobiphenyl
Concen: 52.095 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Tgt Ion:172 Resp: 934206

Ion	Ratio	Lower	Upper
172	100		
171	35.2	28.6	43.0
170	23.5	19.1	28.7



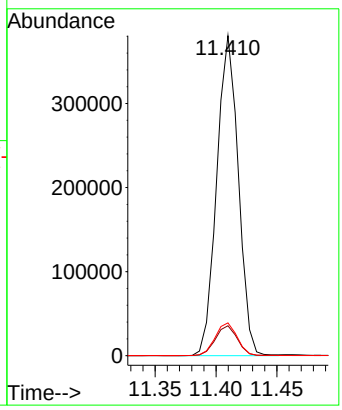


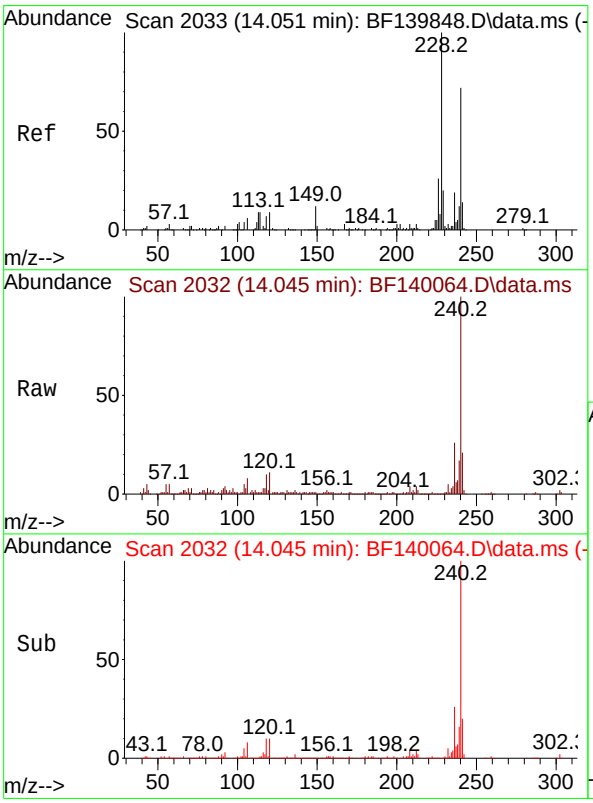
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Tgt Ion:188 Resp: 470615

Ion	Ratio	Lower	Upper
188	100		
94	9.3	7.9	11.9
80	10.3	9.0	13.4

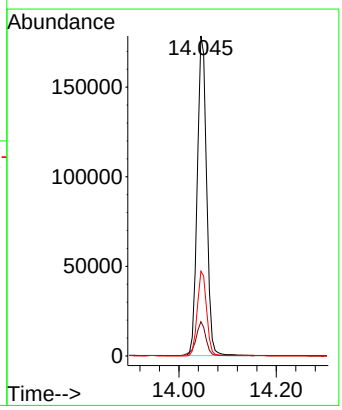


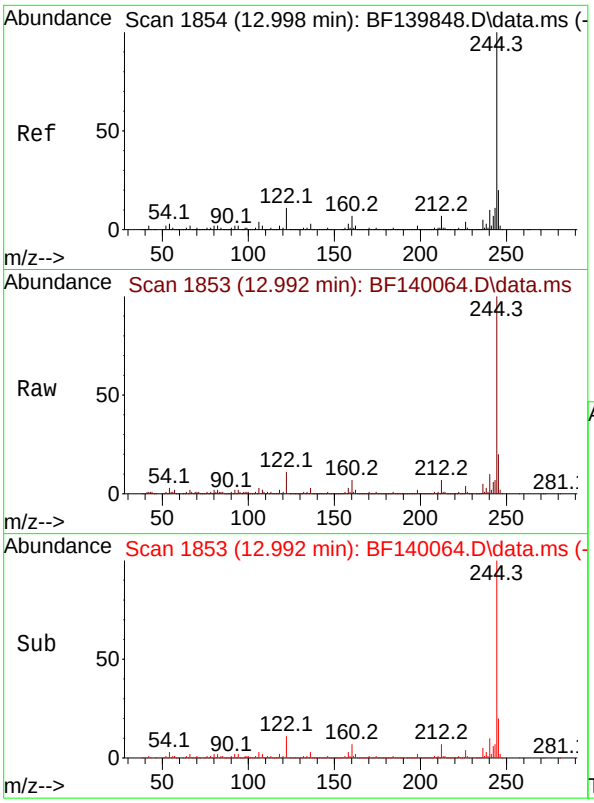


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Tgt Ion:240 Resp: 239328

Ion	Ratio	Lower	Upper
240	100		
120	10.7	9.4	14.2
236	26.4	20.9	31.3



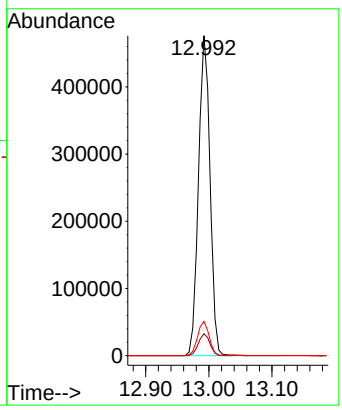


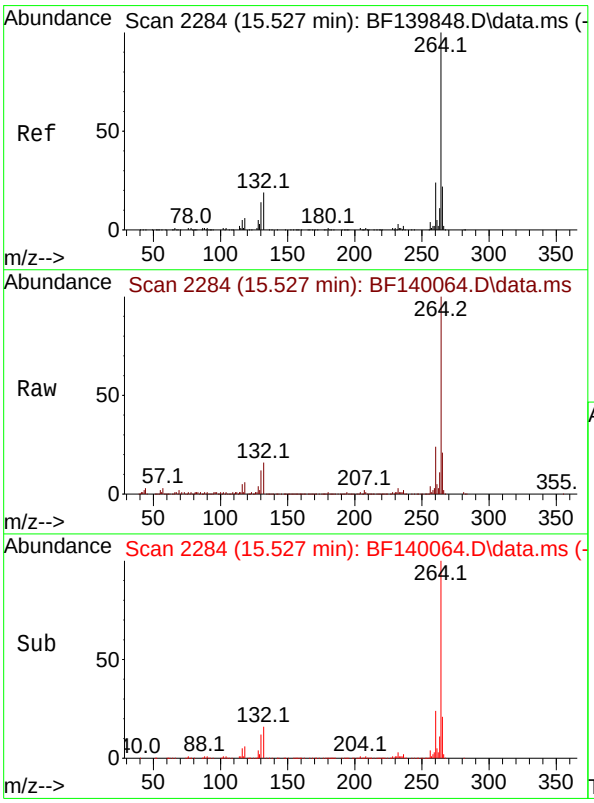
#79
Terphenyl-d14
Concen: 40.999 ng
RT: 12.992 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Tgt Ion:244 Resp: 602171

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.7	8.5
122	10.7	8.6	13.0

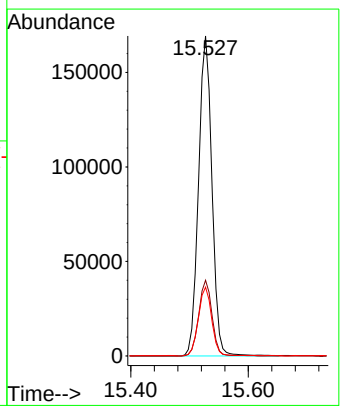




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF140064.D
Acq: 26 Oct 2024 17:16

Tgt Ion:264 Resp: 267329

Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.4	29.2
265	21.5	17.4	26.0



Sample Results: **BF140064.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF140064.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.216	12	21	28	rVB	1379832	2208512	51.40%	5.450%
2	5.116	506	514	522	rVB	132492	203577	4.74%	0.502%
3	5.510	574	581	586	rBV	1946641	2748899	63.98%	6.783%
4	6.069	671	676	681	rVB	37611	47318	1.10%	0.117%
5	6.175	688	694	700	rVB	3171045	4296457	100.00%	10.602%
6	6.340	715	722	727	rVB2	127377	260291	6.06%	0.642%
7	6.440	734	739	744	rBV2	46076	69578	1.62%	0.172%
8	6.504	744	750	756	rBV	1889536	2746184	63.92%	6.776%
9	6.887	810	815	820	rBV	716588	882895	20.55%	2.179%
10	6.963	820	828	832	rBV	535905	659118	15.34%	1.626%
11	7.004	832	835	839	rVB	77211	88612	2.06%	0.219%
12	7.445	900	910	914	rBV	1406315	1967337	45.79%	4.854%
13	7.481	914	916	920	rVB	285346	316770	7.37%	0.782%
14	7.698	948	953	957	rBV	346966	435586	10.14%	1.075%
15	7.792	964	969	973	rBV	48578	72313	1.68%	0.178%
16	7.881	979	984	986	rBV2	177606	260187	6.06%	0.642%
17	7.916	986	990	995	rVB	851093	1073712	24.99%	2.649%
18	7.975	995	1000	1003	rBV	82231	111187	2.59%	0.274%
19	8.022	1003	1008	1012	rVB2	59935	95852	2.23%	0.237%
20	8.075	1012	1017	1020	rBV	290560	406599	9.46%	1.003%
21	8.110	1020	1023	1028	rVV2	345928	472284	10.99%	1.165%
22	8.169	1028	1033	1039	rVV	889890	1163647	27.08%	2.871%
23	8.222	1039	1042	1047	rVB2	36222	48177	1.12%	0.119%
24	8.298	1050	1055	1058	rBV	34323	44146	1.03%	0.109%
25	8.757	1129	1133	1136	rBV	51266	64310	1.50%	0.159%
26	8.875	1146	1153	1156	rBV2	37267	58009	1.35%	0.143%
27	9.092	1177	1190	1192	rBV9	20757	61155	1.42%	0.151%
28	9.245	1209	1216	1222	rBV	2000921	2651043	61.70%	6.541%
29	9.298	1222	1225	1227	rVV	43373	63701	1.48%	0.157%
30	9.322	1227	1229	1235	rVB	48004	57118	1.33%	0.141%
31	9.922	1324	1331	1345	rVB	981150	1273032	29.63%	3.141%
32	10.222	1377	1382	1392	rBV	18627	52231	1.22%	0.129%
33	10.633	1447	1452	1459	rBV	193504	247379	5.76%	0.610%
34	10.710	1459	1465	1475	rBV	1355466	1756791	40.89%	4.335%
35	10.828	1481	1485	1494	rVB	41628	68566	1.60%	0.169%
36	10.945	1501	1505	1509	rVB	35949	43358	1.01%	0.107%

Sample Results: **BF140064.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	11.275	1557	1561	1571	rVB	59351	105622	2.46%	0.261%
38	11.410	1579	1584	1589	rBV	914179	1142739	26.60%	2.820%
39	11.510	1597	1601	1610	rBV	65345	95280	2.22%	0.235%
40	11.933	1668	1673	1682	rBV	408259	599654	13.96%	1.480%
41	12.110	1699	1703	1708	rBV2	27338	46701	1.09%	0.115%
42	12.398	1748	1752	1755	rBV2	40328	60135	1.40%	0.148%
43	12.639	1790	1793	1801	rVB2	35219	72477	1.69%	0.179%
44	12.716	1802	1806	1812	rBV	163183	247377	5.76%	0.610%
45	12.992	1847	1853	1863	rBV	1262285	1648330	38.36%	4.067%
46	13.221	1886	1892	1896	rBV	84859	145015	3.38%	0.358%
47	13.445	1926	1930	1933	rBV2	33815	56918	1.32%	0.140%
48	13.533	1941	1945	1948	rBV	192177	259209	6.03%	0.640%
49	13.686	1966	1971	1974	rBV	217147	294193	6.85%	0.726%
50	13.721	1974	1977	1981	rBV	147633	187581	4.37%	0.463%
51	13.845	1994	1998	2002	rBV	220153	282541	6.58%	0.697%
52	13.892	2002	2006	2012	rBV	384509	641279	14.93%	1.582%
53	14.027	2024	2029	2031	rBV	614456	953505	22.19%	2.353%
54	14.110	2039	2043	2052	rBV	200135	297625	6.93%	0.734%
55	14.210	2057	2060	2073	rVB2	94960	194987	4.54%	0.481%
56	14.333	2077	2081	2085	rBV	68043	84575	1.97%	0.209%
57	14.527	2109	2114	2120	rBV	406648	807285	18.79%	1.992%
58	14.733	2145	2149	2159	rBV	98784	191722	4.46%	0.473%
59	14.821	2161	2164	2168	rVV	44476	56908	1.32%	0.140%
60	14.968	2186	2189	2197	rVB2	47934	72686	1.69%	0.179%
61	15.168	2218	2223	2226	rBV	136457	223350	5.20%	0.551%
62	15.204	2226	2229	2234	rVB	105977	185225	4.31%	0.457%
63	15.527	2278	2284	2296	rVB	446241	762355	17.74%	1.881%
64	15.962	2353	2358	2361	rBV2	55242	101832	2.37%	0.251%
65	16.004	2361	2365	2370	rVB	93264	159013	3.70%	0.392%
66	16.068	2371	2376	2382	rBV2	45864	122762	2.86%	0.303%
67	16.127	2383	2386	2391	rVB	44651	72373	1.68%	0.179%
68	16.210	2396	2400	2404	rVB2	49085	74339	1.73%	0.183%
69	16.774	2490	2496	2501	rBV2	50787	109507	2.55%	0.270%
70	17.080	2543	2548	2554	rBV4	29779	65235	1.52%	0.161%
71	17.362	2592	2596	2605	rVB2	61999	133869	3.12%	0.330%
72	17.639	2636	2643	2650	rBV6	80507	269605	6.28%	0.665%
73	17.715	2651	2656	2675	rVB5	154622	466793	10.86%	1.152%
74	17.980	2693	2701	2718	rBV5	95330	395840	9.21%	0.977%
75	18.245	2735	2746	2763	rBV	580698	1764342	41.07%	4.354%

Sample Results: **BF140064.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Sum of corrected areas: 40526715

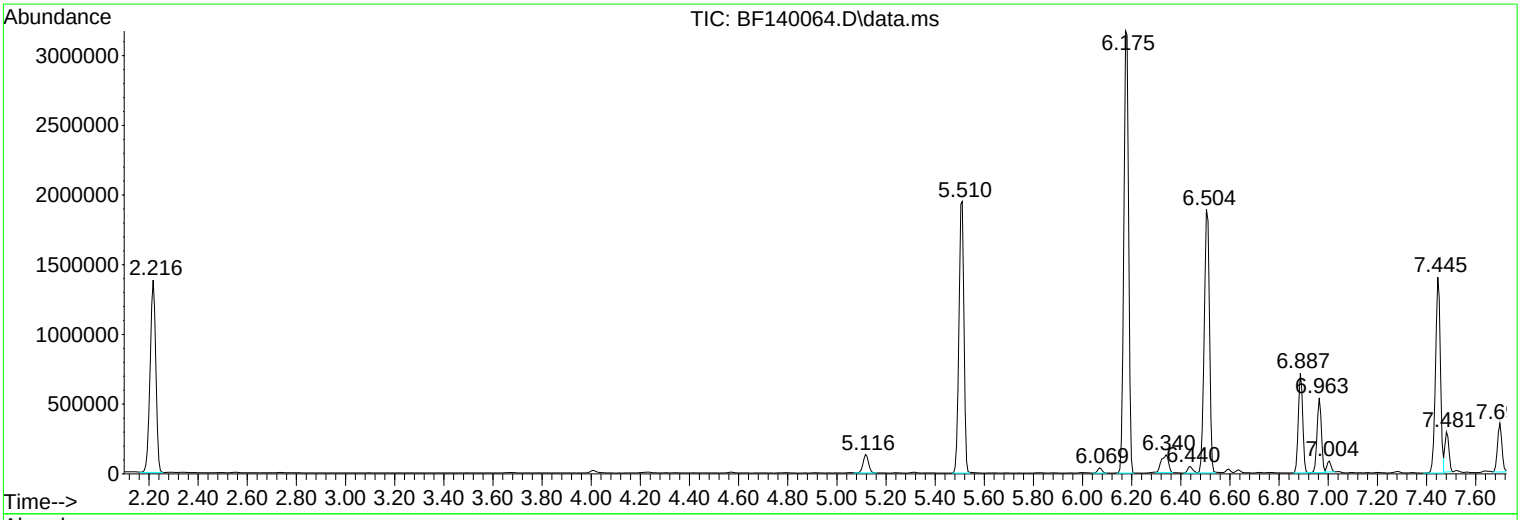
Sample Results: **BF140064.D**

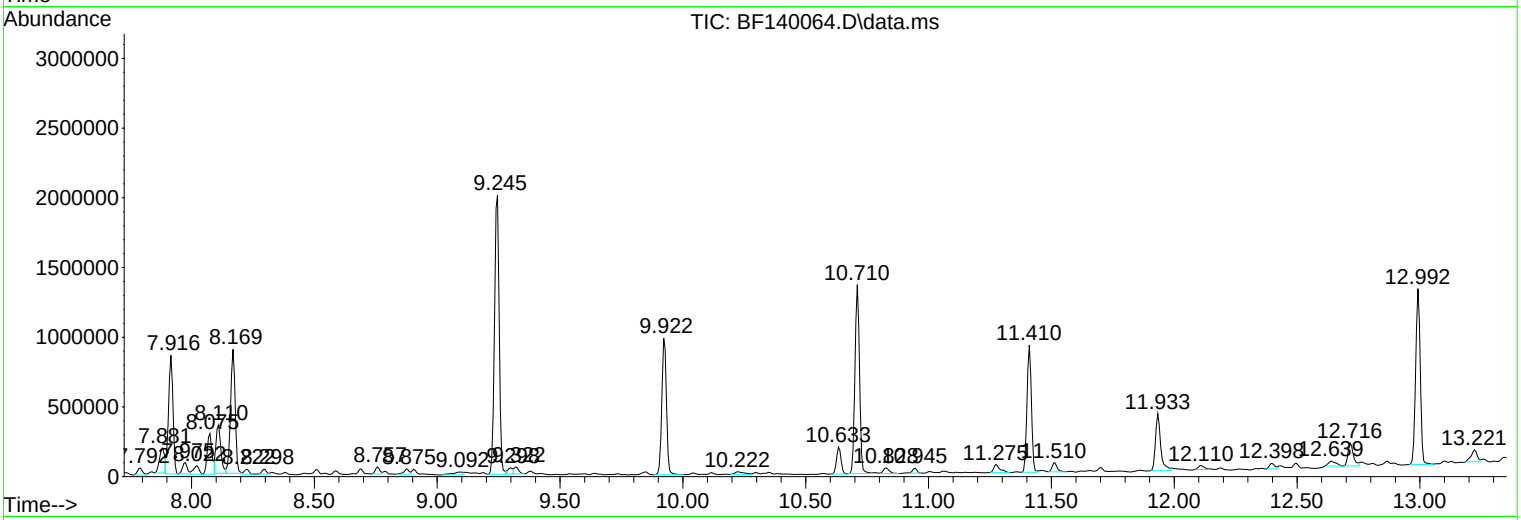
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

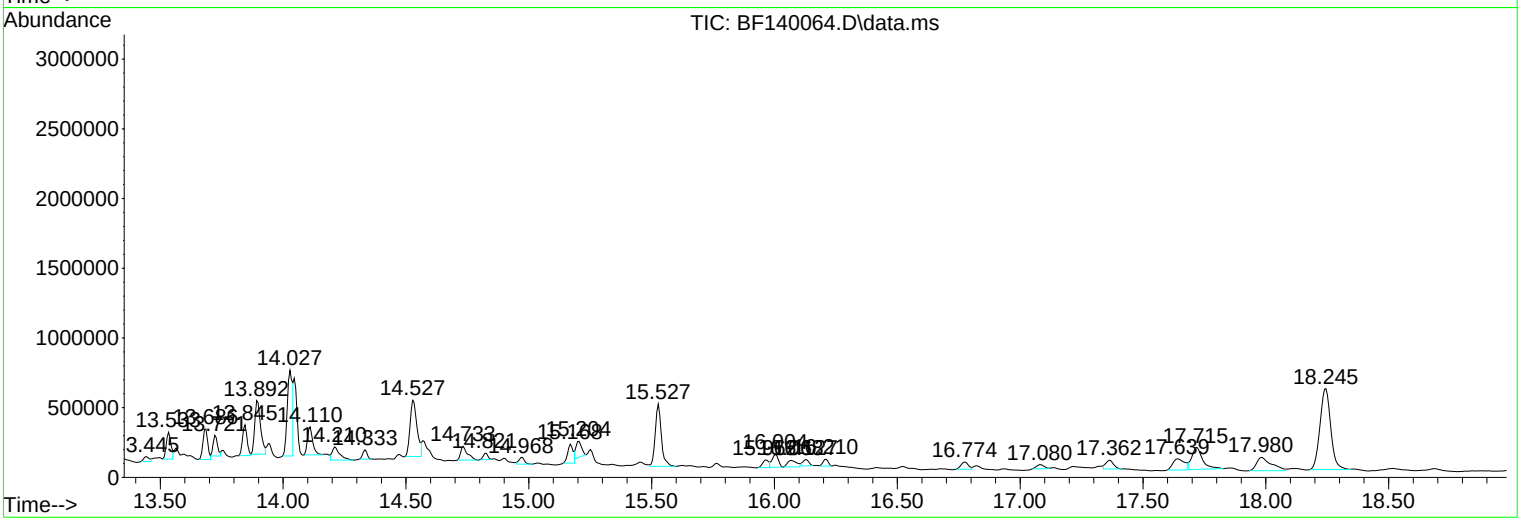
Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







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Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

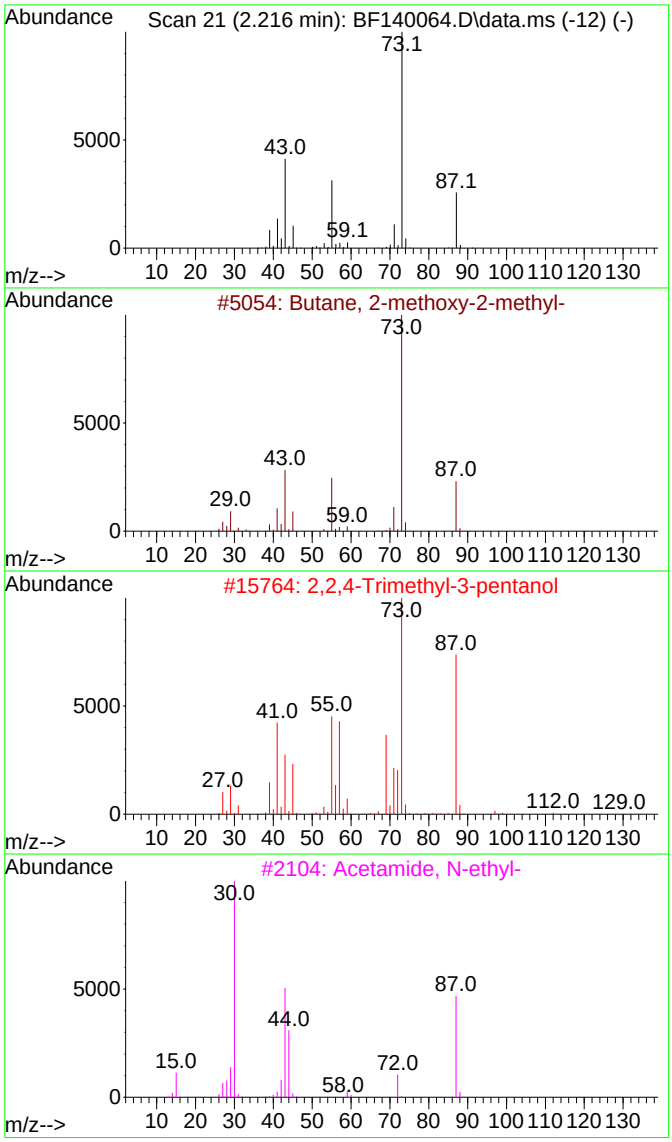
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

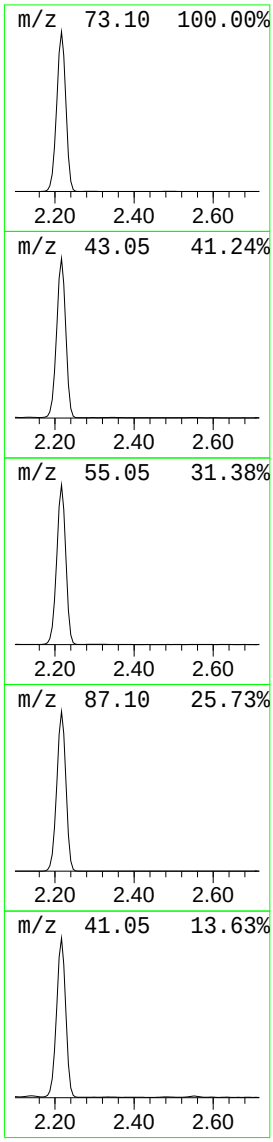
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.216	50.03 ng	2208510	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	27
4	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	25
5	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17





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Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

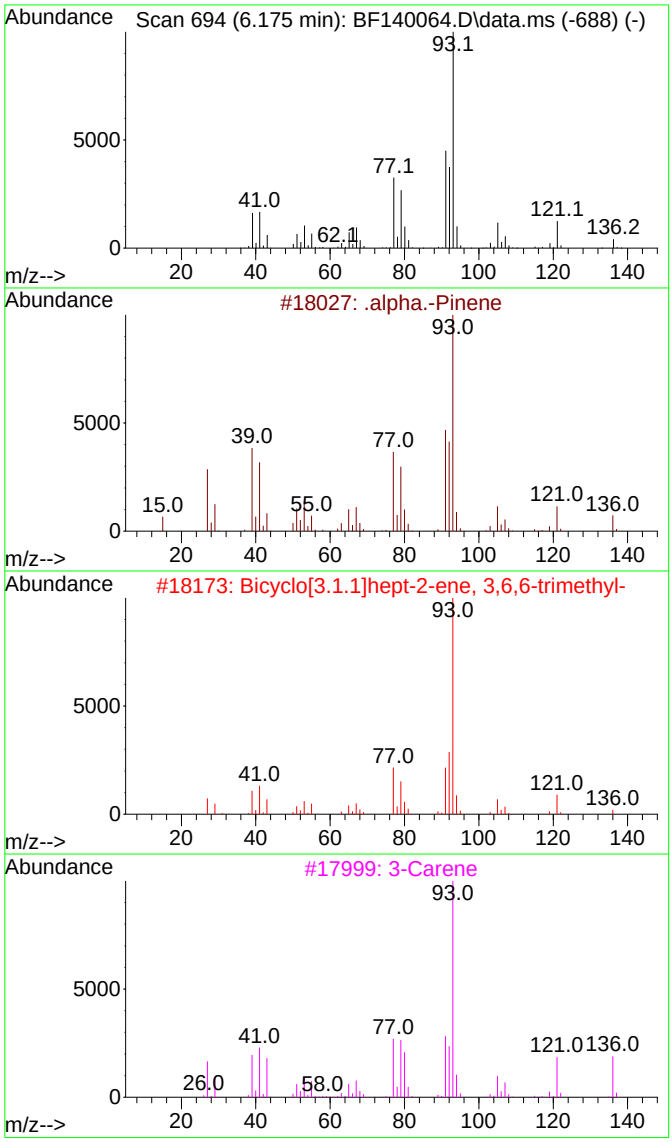
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

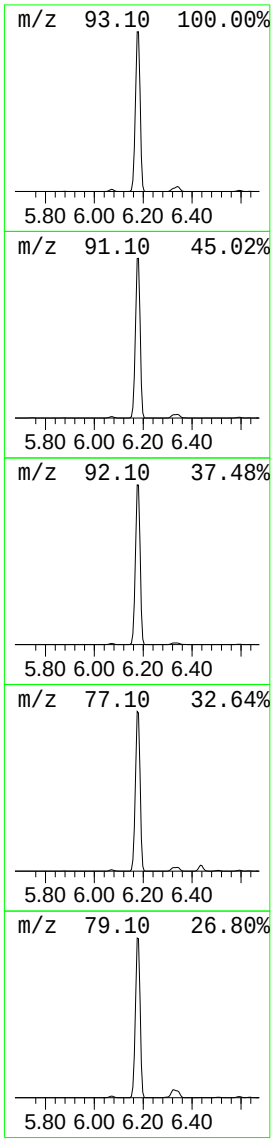
****

Peak Number 2 .alpha.-Pinene Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.175	97.33 ng	4296460	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.alpha.-Pinene	136	C10H16	000080-56-8	94
2	Bicyclo[3.1.1]hept-2-ene, 3,6,6-...	136	C10H16	004889-83-2	91
3	3-Carene	136	C10H16	013466-78-9	91
4	Tricyclo[2.2.1.0(2,6)]heptane, 1...	136	C10H16	000508-32-7	91
5	(+)-3-Carene	136	C10H16	000498-15-7	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102624\
Data File : BF140064.D
Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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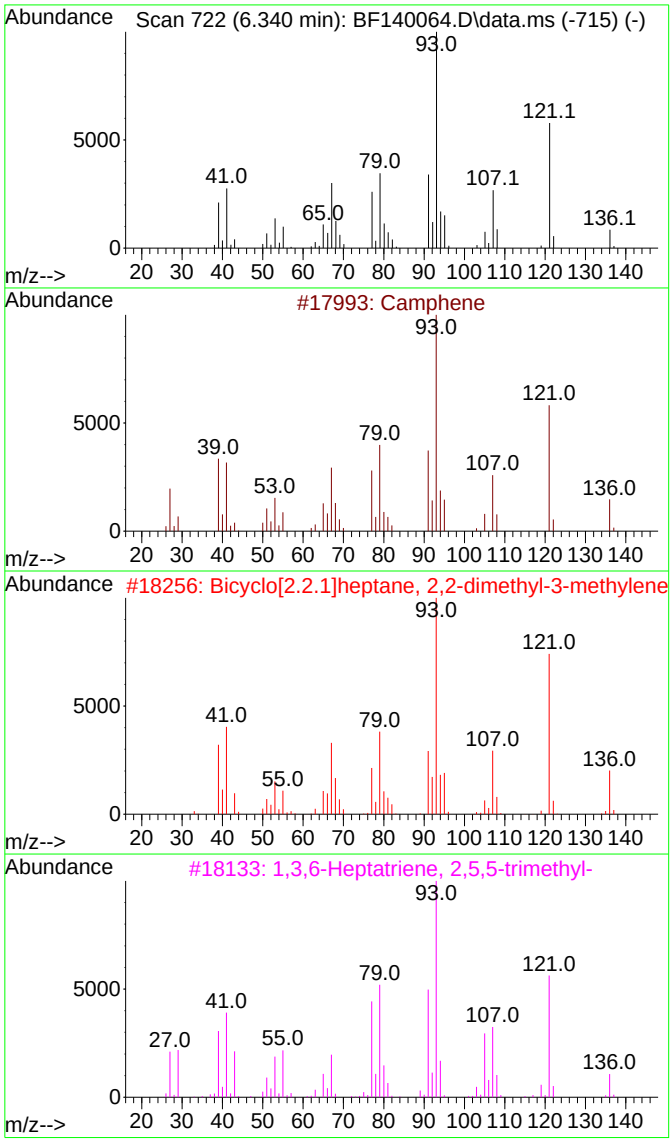
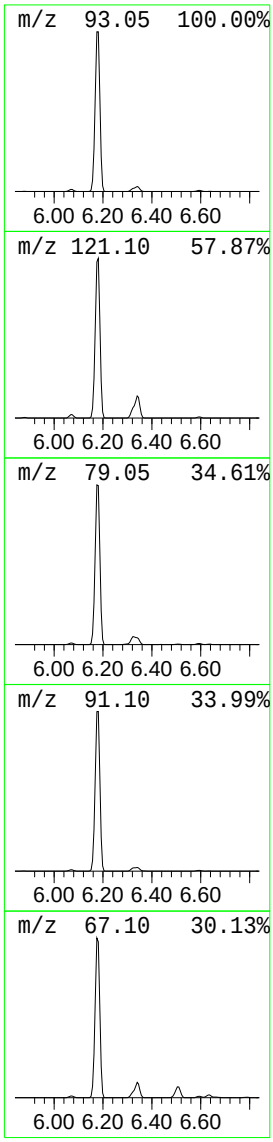
Peak Number 3 Camphene Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.340	5.90 ng	260291	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Camphene	136	C10H16	000079-92-5	95
2	Bicyclo[2.2.1]heptane, 2,2-dimet...	136	C10H16	005794-04-7	94
3	1,3,6-Heptatriene, 2,5,5-trimethyl-	136	C10H16	029548-02-5	90
4	Bicyclo[3.1.1]heptane, 6,6-dimet...	136	C10H16	018172-67-3	80
5	(+)-4-Carene	136	C10H16	029050-33-7	74





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Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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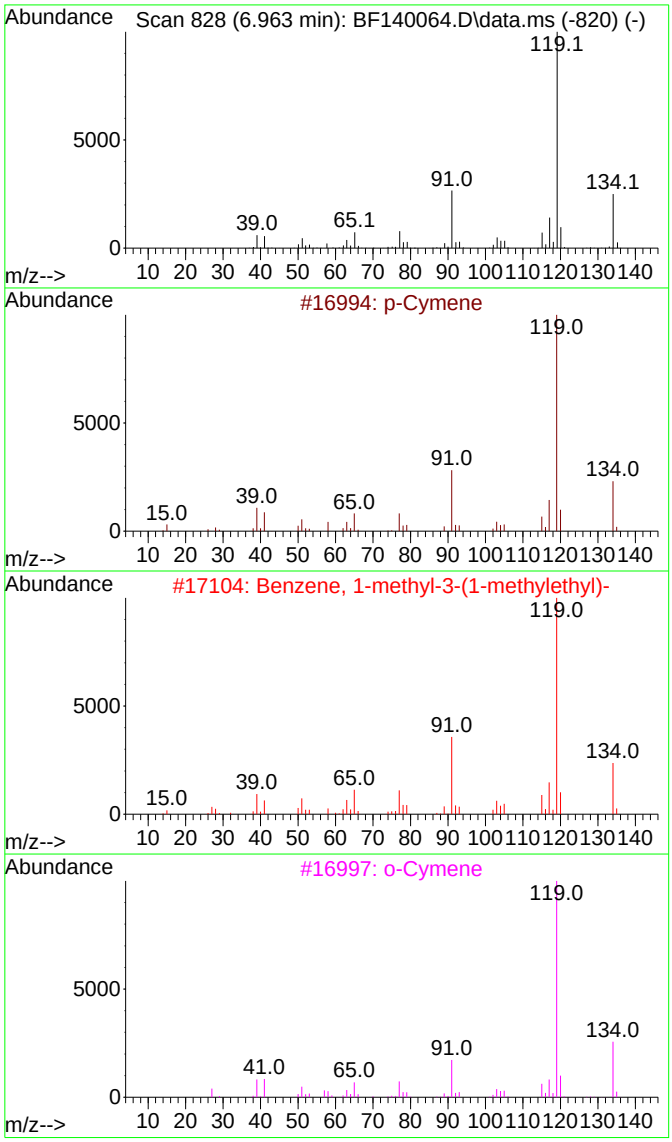
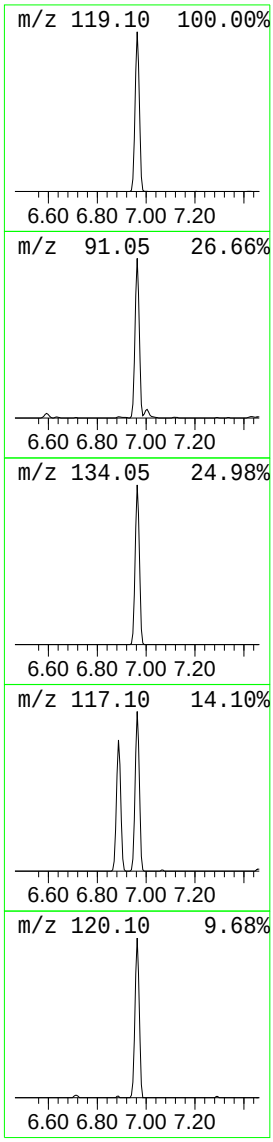
Peak Number 4 p-Cymene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.963	14.93 ng	659118	1,4-Dichlorobenzene-d4	6.887

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	p-Cymene	134	C10H14	000099-87-6	97
2	Benzene, 1-methyl-3-(1-methyleth...	134	C10H14	000535-77-3	95
3	o-Cymene	134	C10H14	000527-84-4	94
4	1,3,5-Cycloheptatriene, 3,7,7-tr...	134	C10H14	003479-89-8	94
5	Benzene, 1-ethyl-2,4-dimethyl-	134	C10H14	000874-41-9	91





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Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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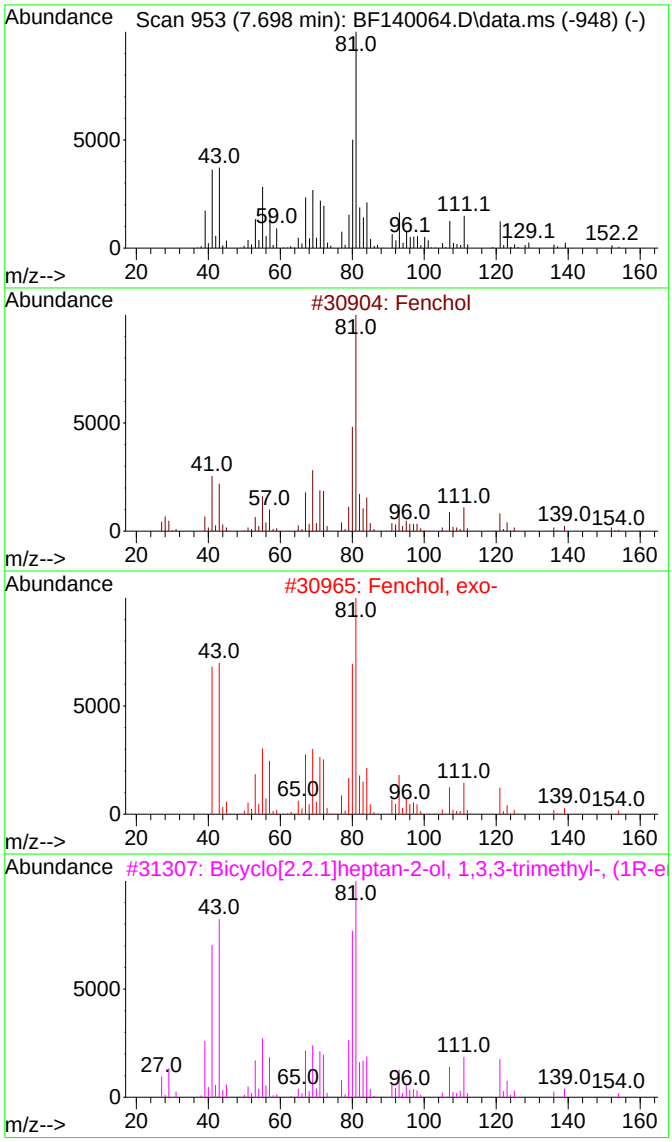
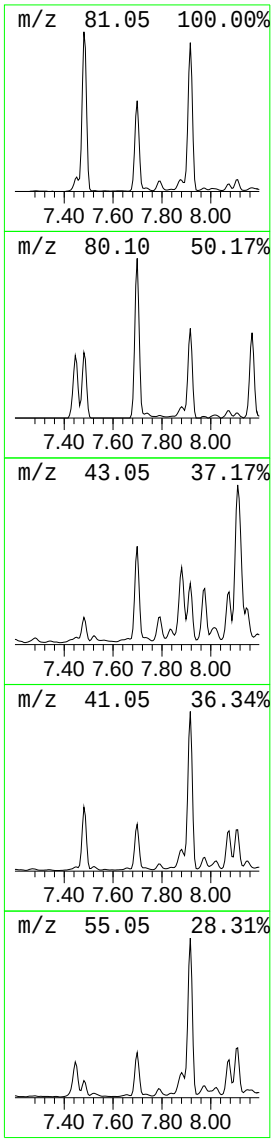
Peak Number 5 Fenchol Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.698	7.49 ng	435586	Naphthalene-d8	8.169

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Fenchol	154	C10H18O	001632-73-1	96
2	Fenchol, exo-	154	C10H18O	022627-95-8	91
3	Bicyclo[2.2.1]heptan-2-ol, 1,3,3...	154	C10H18O	002217-02-9	38
4	Cyclohexane, 1,2-dichloro-	152	C6H10Cl2	001121-21-7	38
5	Cyclohexane, 1,2-dichloro-, trans-	152	C6H10Cl2	000822-86-6	38





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Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

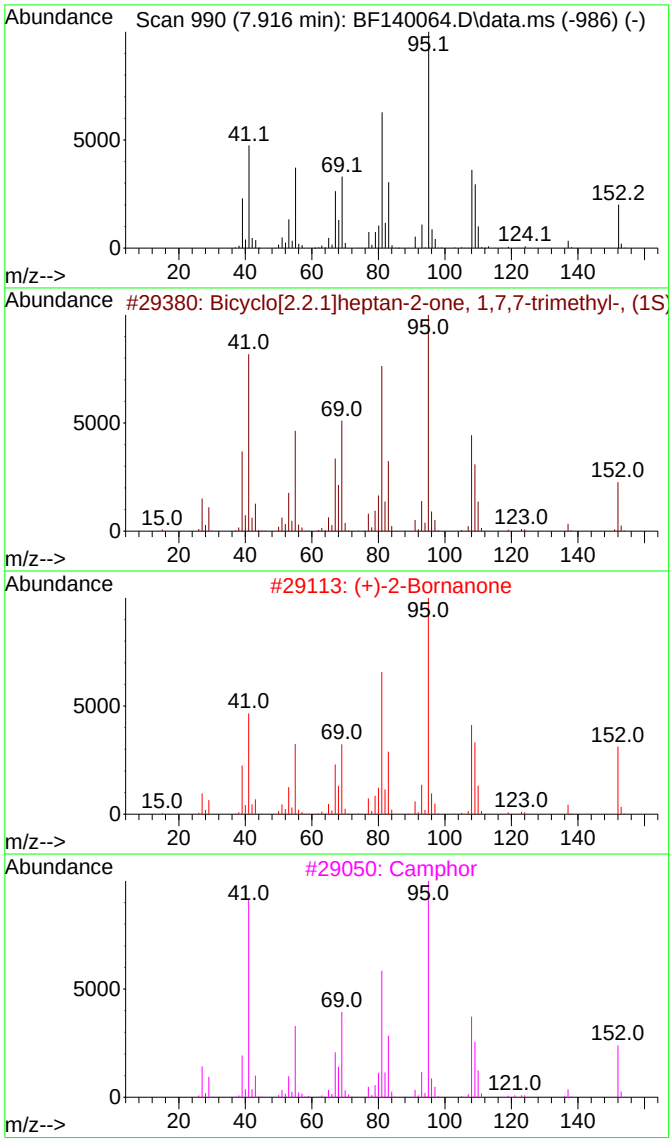
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

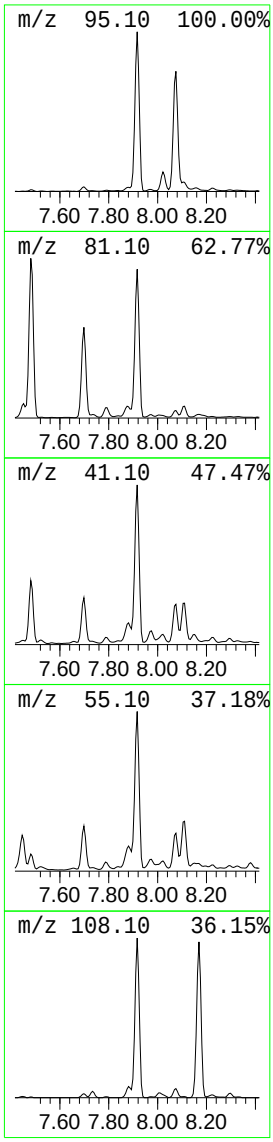
****

Peak Number 6 Bicyclo[2.2.1]heptan-2-one,... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.916	18.45 ng	1073710	Naphthalene-d8	8.169

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Bicyclo[2.2.1]heptan-2-one, 1,7,...	152	C10H16O	000464-48-2	97
2	(+)-2-Bornanone	152	C10H16O	000464-49-3	97
3	Camphor	152	C10H16O	000076-22-2	97
4	5,7-Octadien-4-one, 2,6-dimethyl...	152	C10H16O	006752-80-3	58
5	1-Adamantanol	152	C10H16O	000768-95-6	43





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Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
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ClientSampleId :
B-180-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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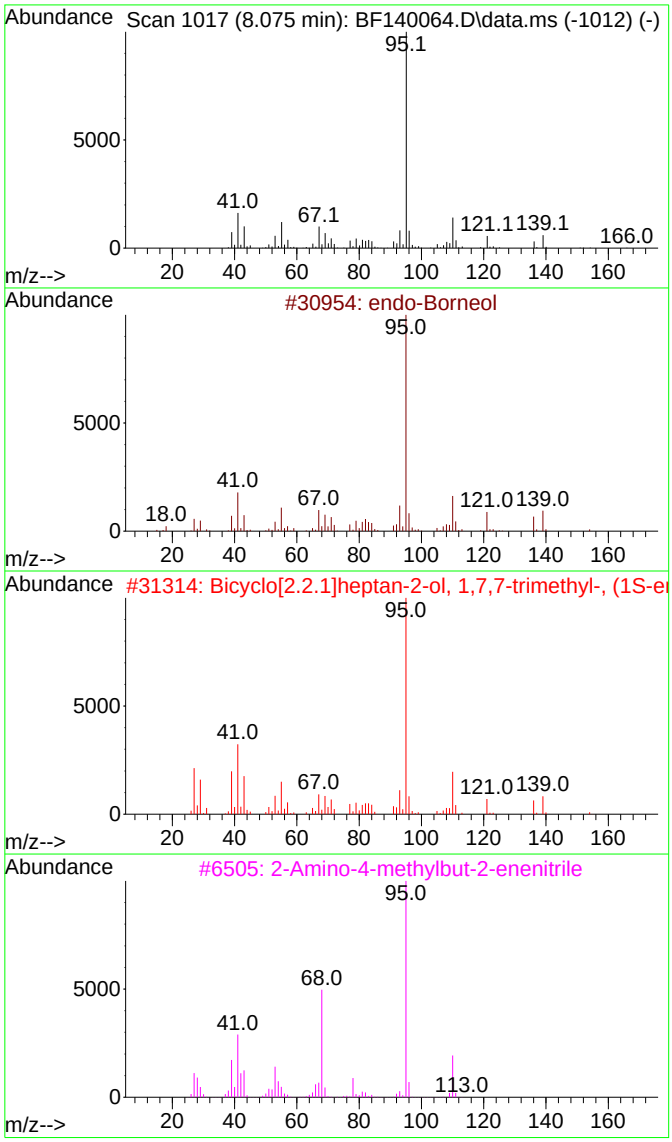
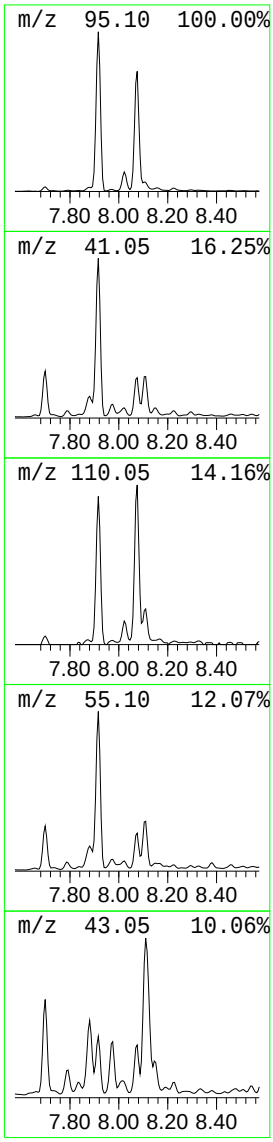
Peak Number 7 endo-Borneol Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.075	6.99 ng	406599	Naphthalene-d8	8.169

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	endo-Borneol	154	C10H18O	000507-70-0	91
2	Bicyclo[2.2.1]heptan-2-ol, 1,7,7...	154	C10H18O	000464-45-9	83
3	2-Amino-4-methylbut-2-enenitrile	110	C6H10N2	1000197-39-9	72
4	Bicyclo[2.2.1]heptane, 2-(1,1-di...	164	C12H20	069219-08-5	64
5	Furan, 2-ethyl-5-methyl-	110	C7H10O	001703-52-2	64





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Acq On : 26 Oct 2024 17:16
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Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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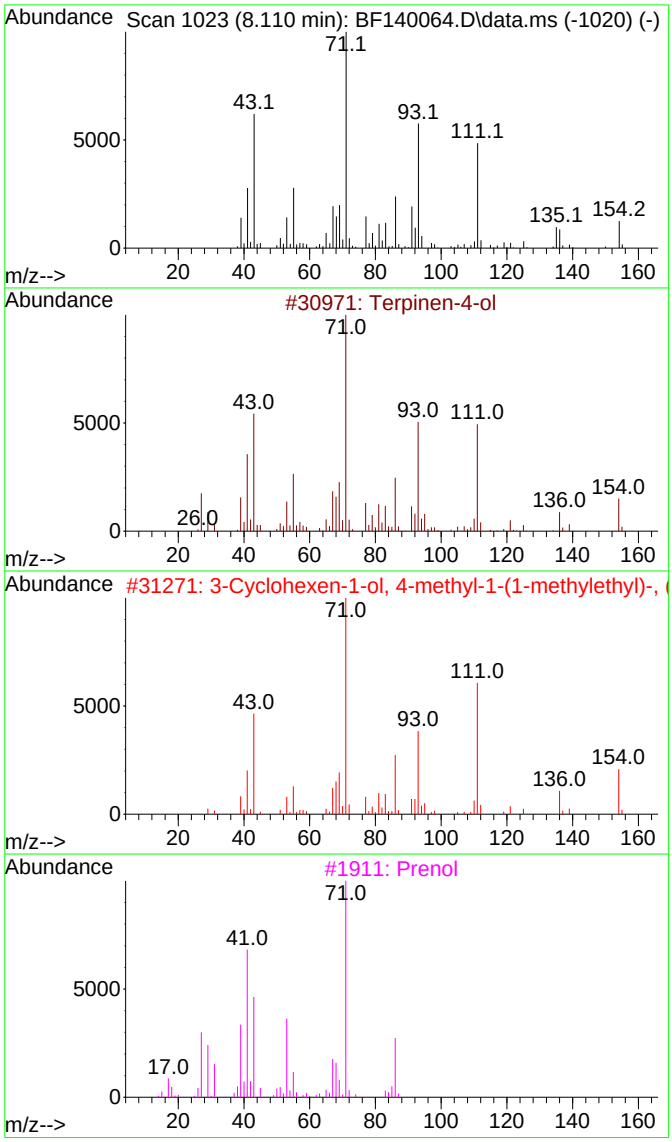
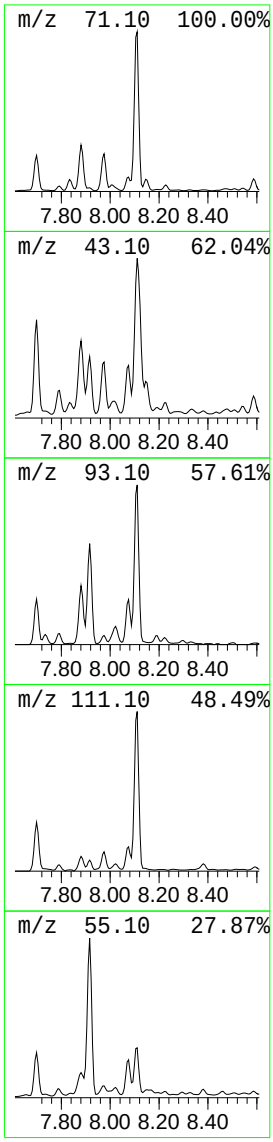
Peak Number 8 Terpinen-4-ol Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.110	8.12 ng	472284	Naphthalene-d8	8.169

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Terpinen-4-ol	154	C10H18O	000562-74-3	91
2	3-Cyclohexen-1-ol, 4-methyl-1-(1...	154	C10H18O	020126-76-5	81
3	Prenol	86	C5H10O	000556-82-1	43
4	Bicyclo[3.1.1]heptan-endo-6-ol, ...	190	C7H11BrO	1000142-77-8	35
5	2-Butene, 1-methoxy-, (E)-	86	C5H10O	010034-14-7	30





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Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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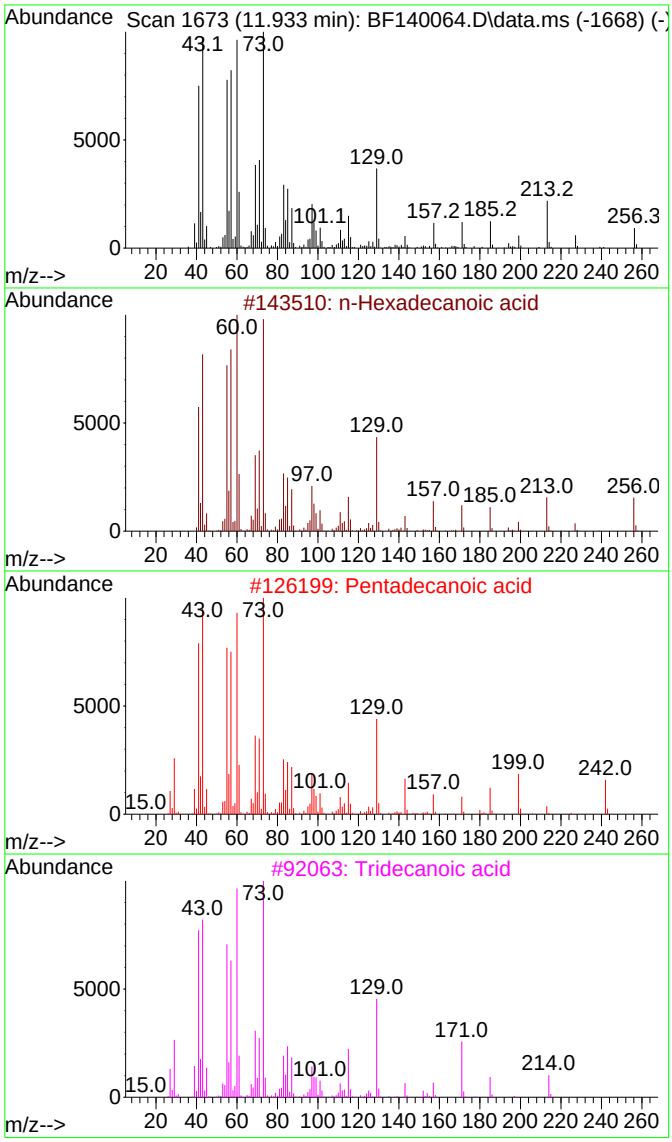
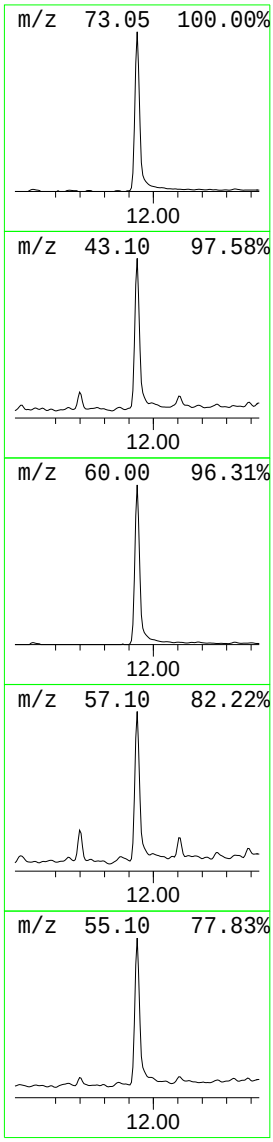
Peak Number 9 n-Hexadecanoic acid Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.933	10.49 ng	599654	Phenanthrene-d10	11.410

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	89
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	83
5	Undecanoic acid	186	C11H22O2	000112-37-8	76





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Acq On : 26 Oct 2024 17:16
Operator : RC/JU
Sample : P4471-02
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
B-180-SB02

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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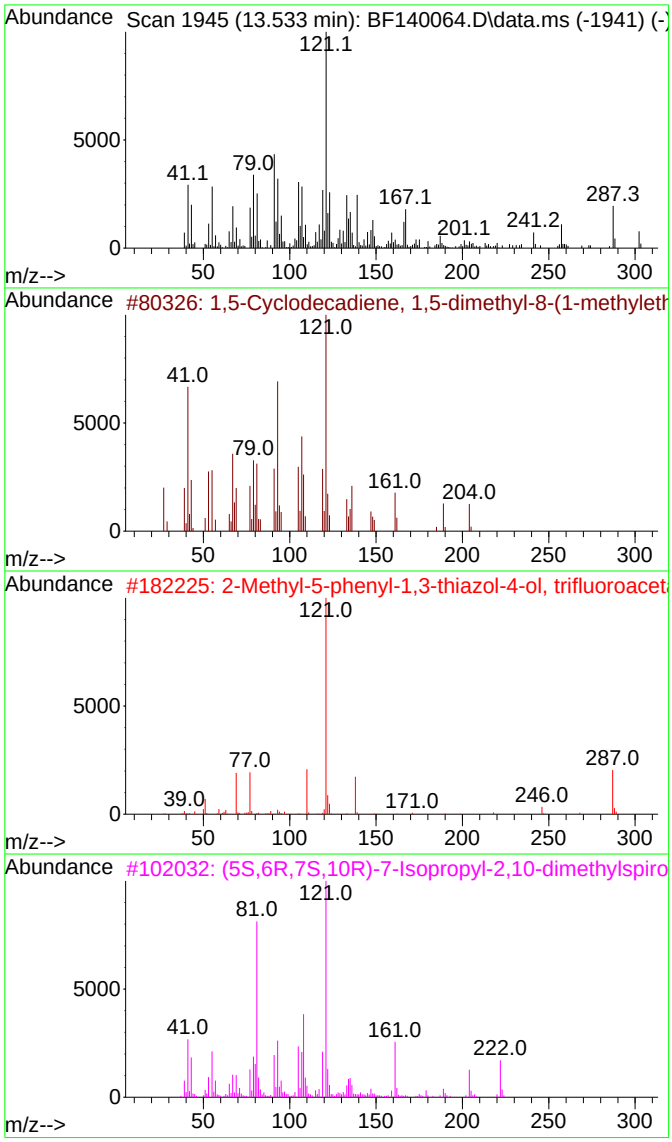
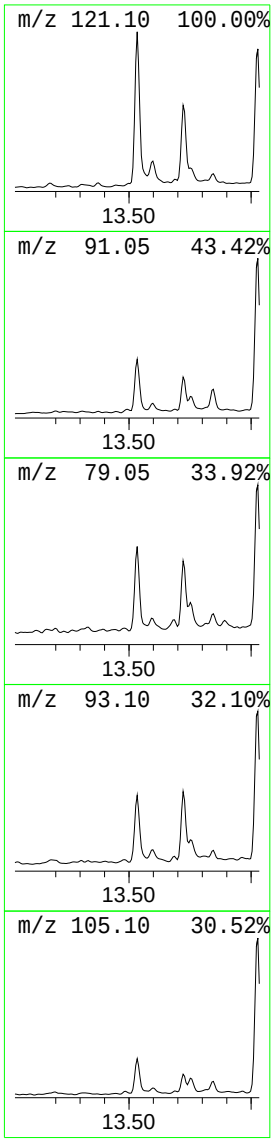
Peak Number 10 unknown13.533 Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.533	5.44 ng	259209	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,5-Cyclodecadiene, 1,5-dimethyl...	204	C15H24	015423-57-1	47
2	2-Methyl-5-phenyl-1,3-thiazol-4-...	287	C12H8F3NO2S	1000471-95-1	43
3	(5S,6R,7S,10R)-7-Isopropyl-2,10-...	222	C15H26O	072203-99-7	43
4	.delta.8(14)-Isopimaric acid	302	C20H30O2	000471-74-9	42
5	1,4-Cyclohexadiene, 3,3,6,6-tetr...	136	C10H16	002223-54-3	30





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Operator : RC/JU
Sample : P4471-02
Misc :
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ClientSampleId :
B-180-SB02

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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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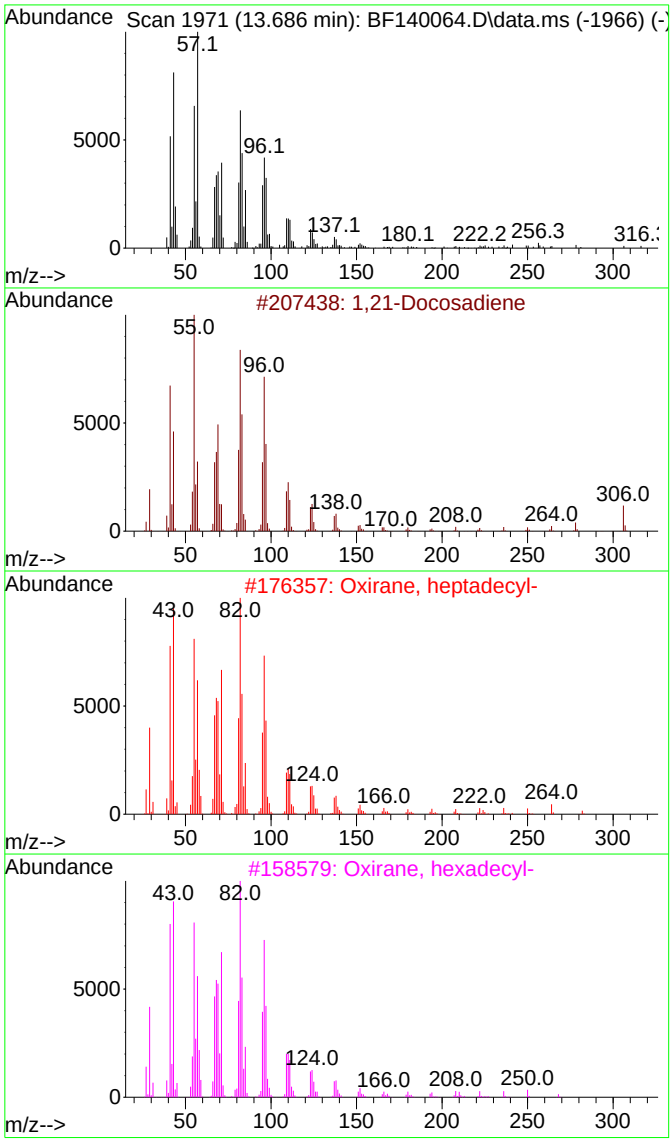
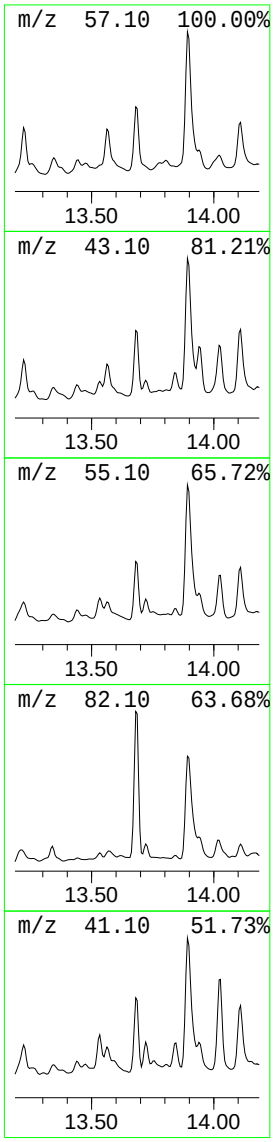
Peak Number 11 1,21-Docosadiene Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.686	6.17 ng	294193	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,21-Docosadiene	306	C22H42	053057-53-7	96
2	Oxirane, heptadecyl-	282	C19H38O	067860-04-2	91
3	Oxirane, hexadecyl-	268	C18H36O	007390-81-0	91
4	Octadecanal	268	C18H36O	000638-66-4	91
5	Pentadecanal-	226	C15H30O	002765-11-9	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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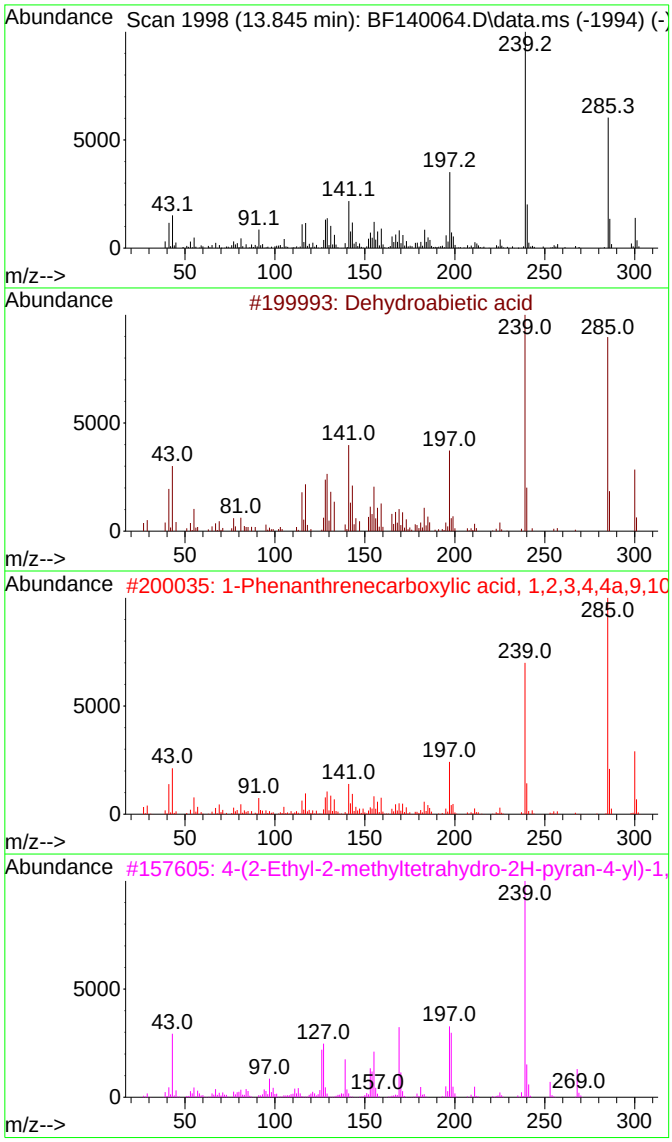
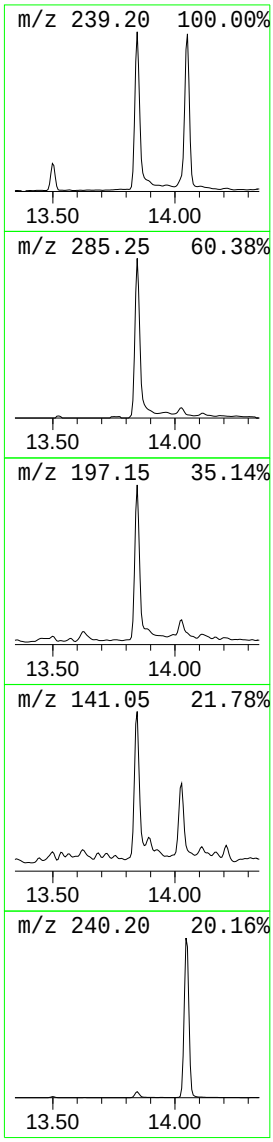
Peak Number 12 Dehydroabietic acid Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.845	5.93 ng	282541	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dehydroabietic acid	300	C20H28O2	001740-19-8	99
2	1-Phenanthrenecarboxylic acid, 1...	300	C20H28O2	005155-70-4	94
3	4-(2-Ethyl-2-methyltetrahydro-2H...	268	C13H20N2O2S	1000479-90-5	43
4	2-Ethylidene-hydrazono-3-methyl-...	239	C10H10ClN3S	1000148-08-4	43
5	Imidazolo[2,1-b]thiazole, 5-(3-i...	239	C13H9N3S	327097-37-0	43





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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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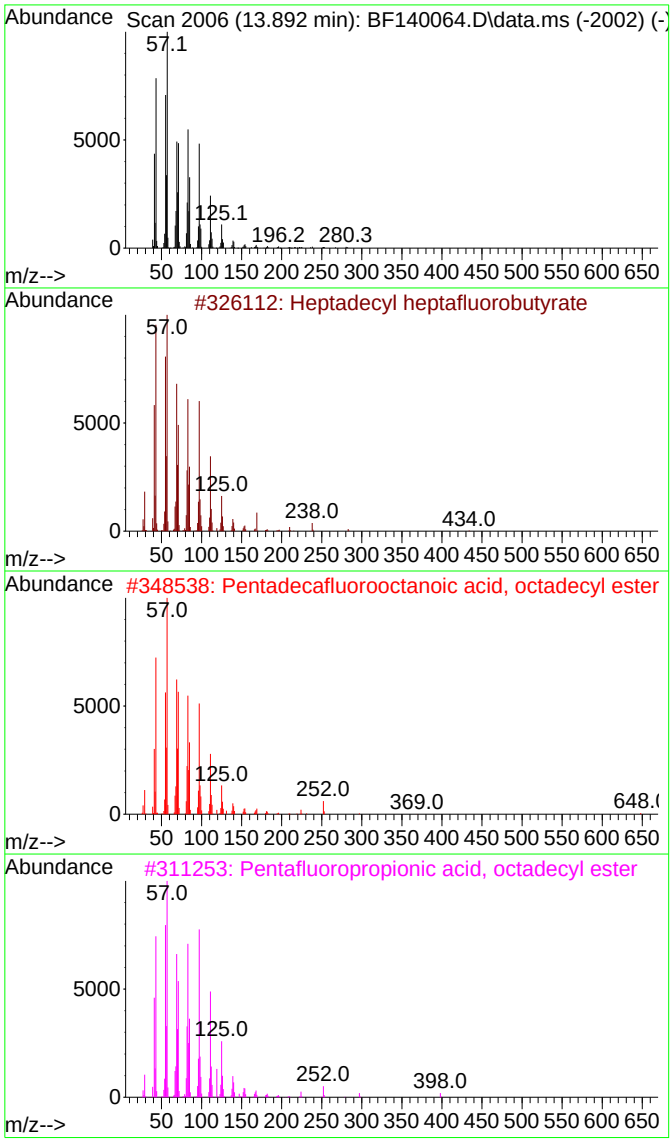
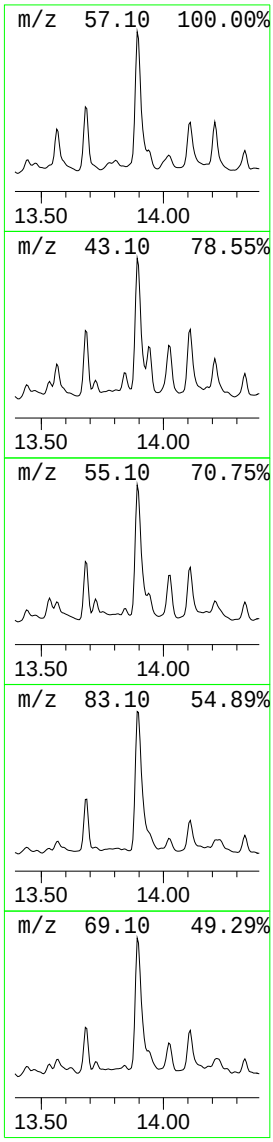
Peak Number 13 Heptadecyl heptafluorobutyrate Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.892	13.45 ng	641279	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94
2	Pentadecafluorooctanoic acid, oc...	666	C26H37F15O2	1000406-04-8	94
3	Pentafluoropropionic acid, octad...	416	C21H37F5O2	959261-25-7	91
4	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	91
5	Heptafluorobutyric acid, n-octad...	466	C22H37F7O2	000400-57-7	91





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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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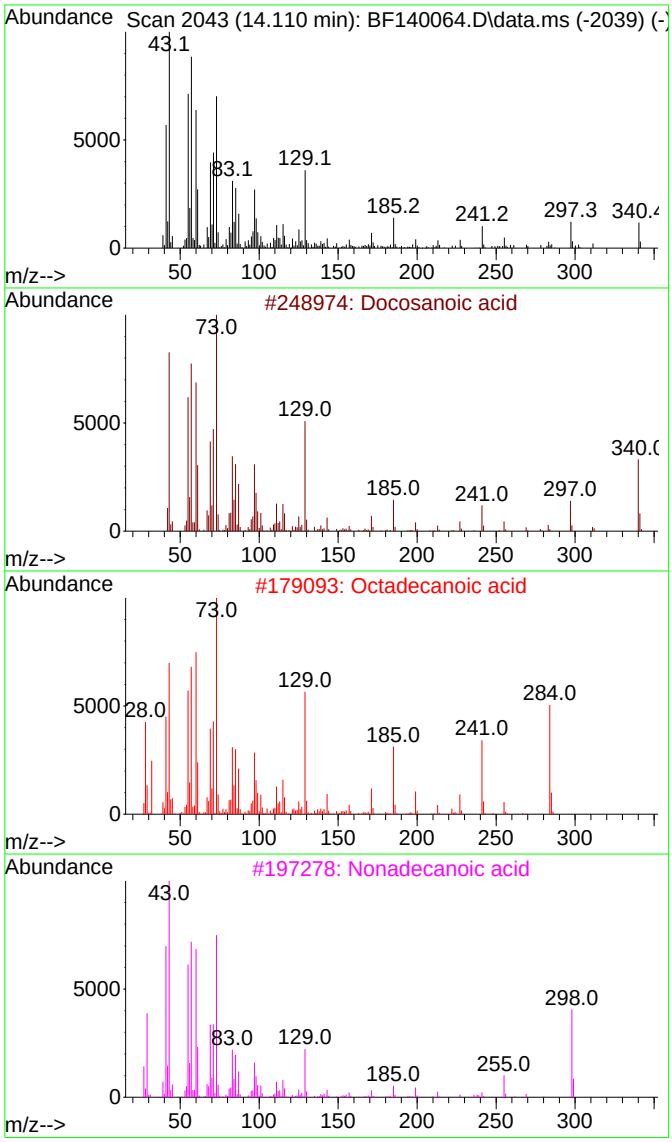
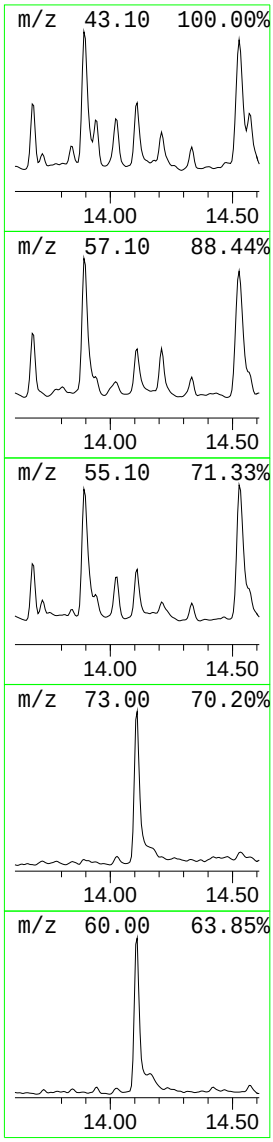
Peak Number 14 Docosanoic acid Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.110	6.24 ng	297625	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Docosanoic acid	340	C22H44O2	000112-85-6	99
2	Octadecanoic acid	284	C18H36O2	000057-11-4	96
3	Nonadecanoic acid	298	C19H38O2	000646-30-0	95
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	60
5	Tridecanoic acid	214	C13H26O2	000638-53-9	45





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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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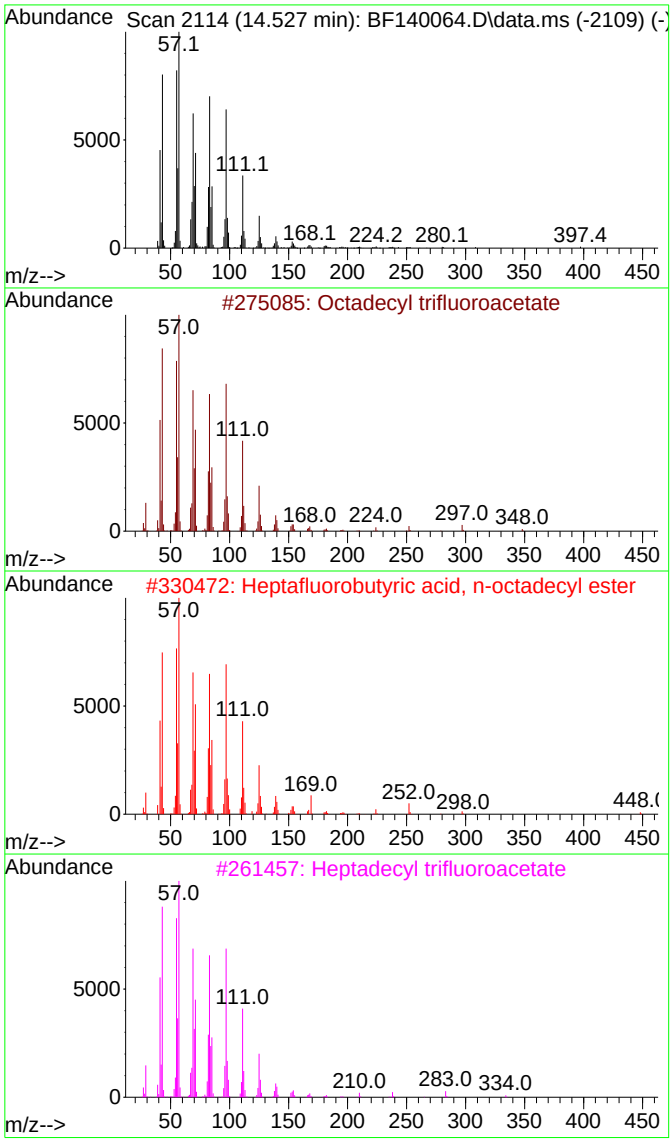
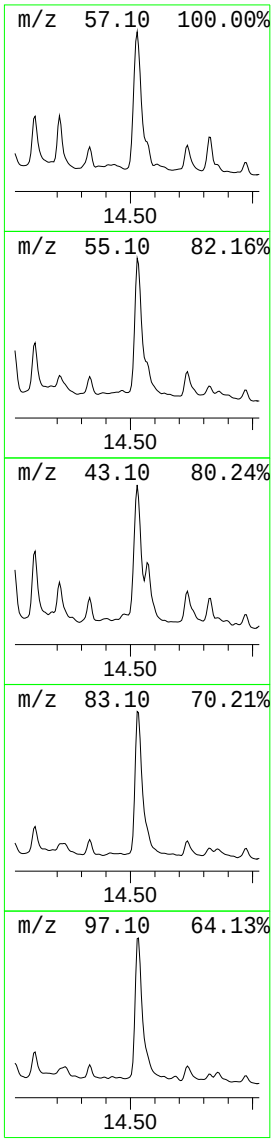
Peak Number 15 Octadecyl trifluoroacetate Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
14.527	16.93 ng	807285	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecyl trifluoroacetate	366	C20H37F3O2	079392-43-1	94
2	Heptafluorobutyric acid, n-octad...	466	C22H37F7O2	000400-57-7	94
3	Heptadecyl trifluoroacetate	352	C19H35F3O2	1010351-87-0	94
4	Heptadecyl heptafluorobutyrate	452	C21H35F7O2	959085-66-6	94
5	Pentafluoropropionic acid, hepta...	402	C20H35F5O2	959218-78-1	94





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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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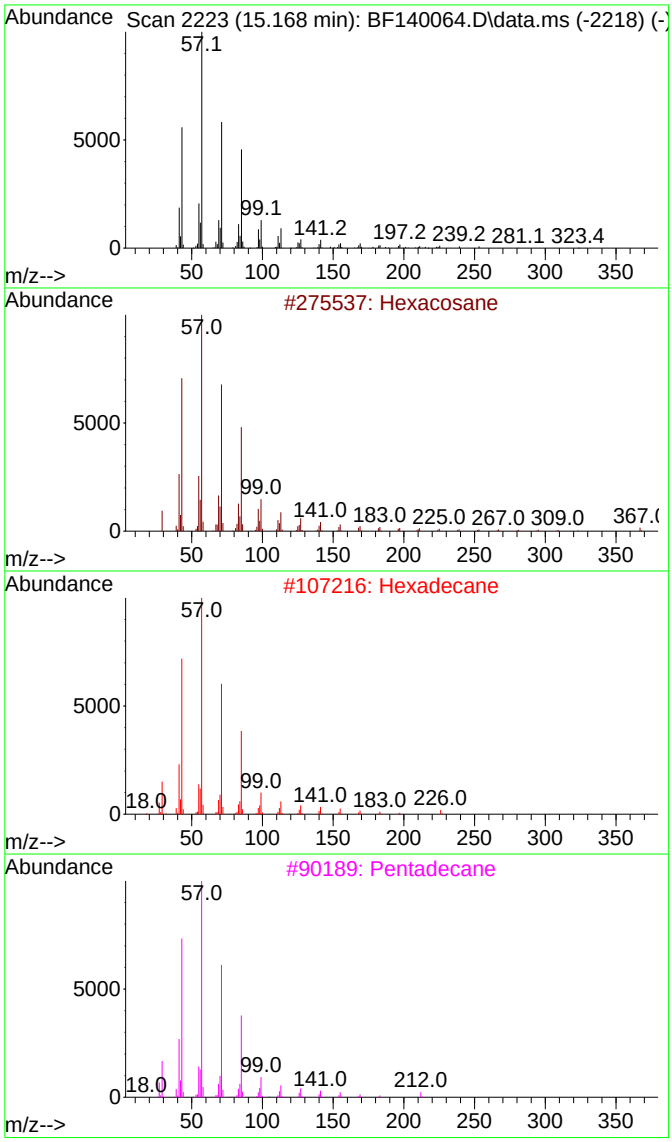
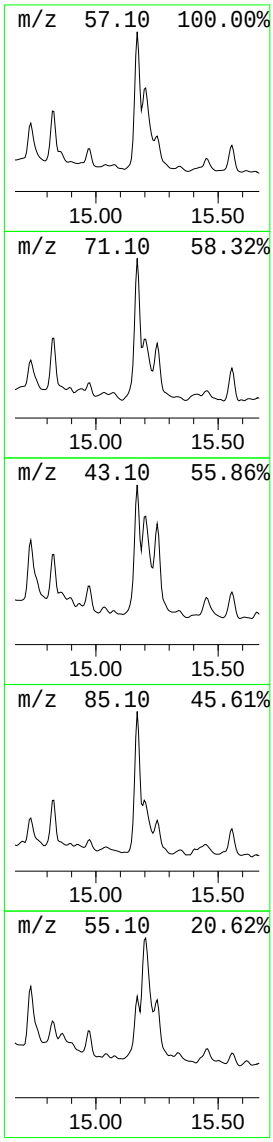
Peak Number 16 Hexacosane Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.168	5.86 ng	223350	Perylene-d12	15.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexacosane	366	C26H54	000630-01-3	94
2	Hexadecane	226	C16H34	000544-76-3	91
3	Pentadecane	212	C15H32	000629-62-9	90
4	Eicosane	282	C20H42	000112-95-8	87
5	Hexatriacontane	507	C36H74	000630-06-8	83





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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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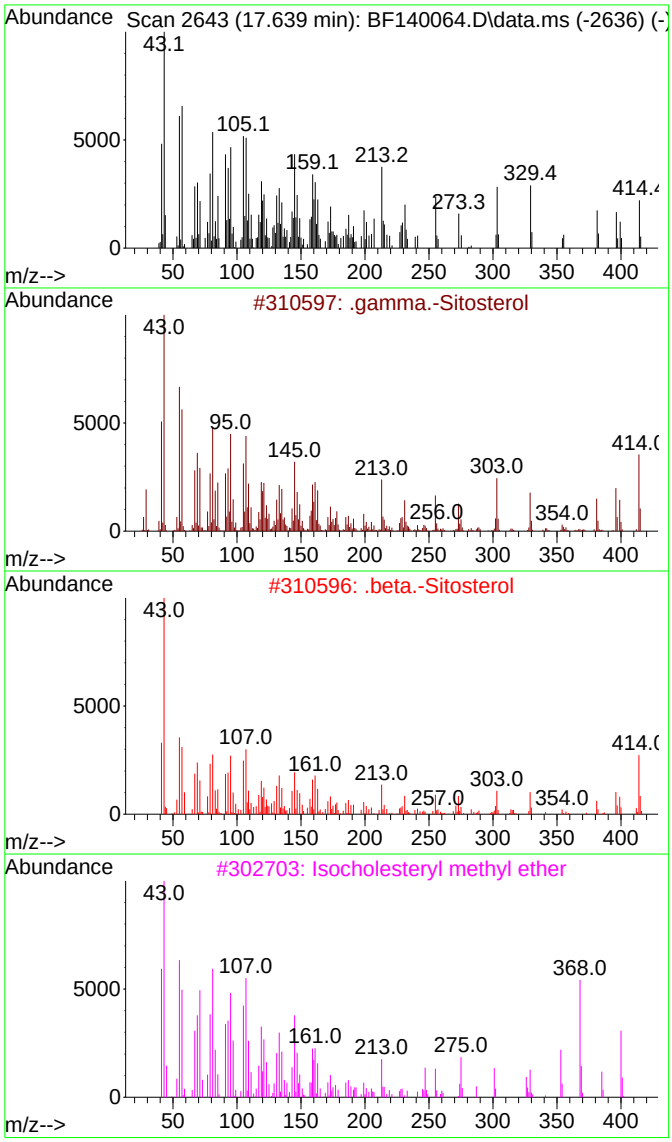
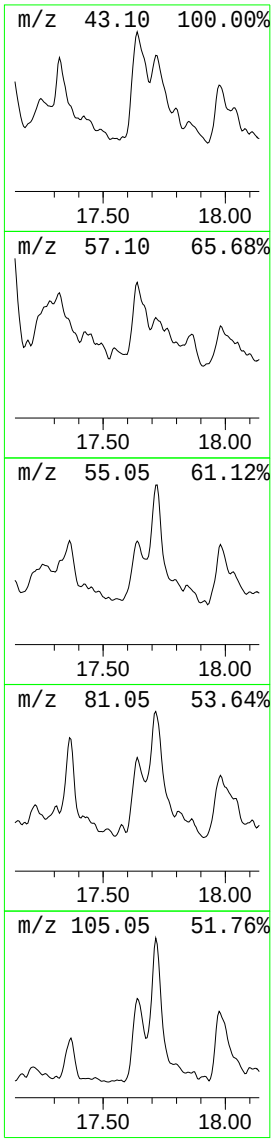
Peak Number 17 .gamma.-Sitosterol Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.639	7.07 ng	269605	Perylene-d12	15.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	.gamma.-Sitosterol	414	C29H50O	000083-47-6	99
2	.beta.-Sitosterol	414	C29H50O	000083-46-5	97
3	Isocholesteryl methyl ether	400	C28H48O	029944-53-4	53
4	Campesterol	400	C28H48O	000474-62-4	49
5	Ergost-5-en-3-ol, (3.beta.)-	400	C28H48O	004651-51-8	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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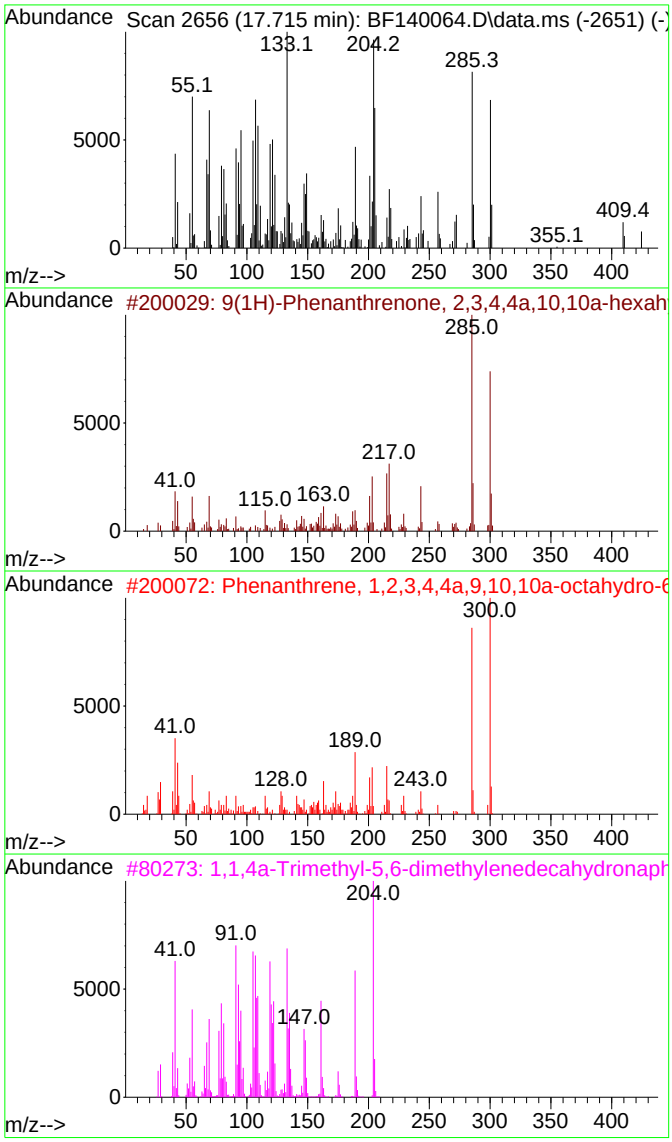
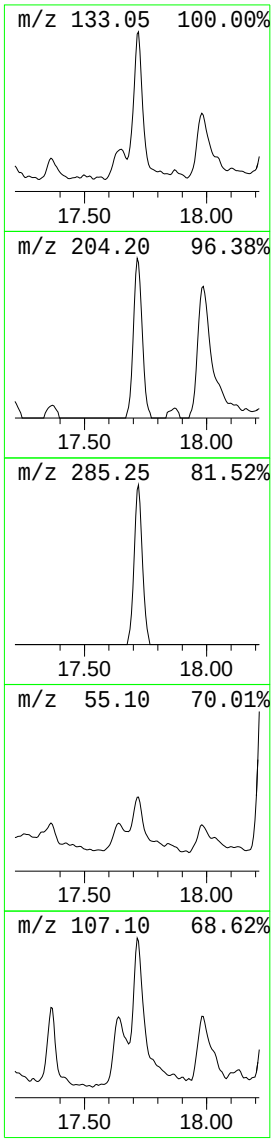
Peak Number 18 9(1H)-Phenanthrenone, 2,3,4... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.715	12.25 ng	466793	Perylene-d12	15.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9(1H)-Phenanthrenone, 2,3,4,4a,1...	300	C20H28O2	000511-05-7	50
2	Phenanthrene, 1,2,3,4,4a,9,10,10...	300	C21H32O	010064-26-3	35
3	1,1,4a-Trimethyl-5,6-dimethylene...	204	C15H24	1000193-60-8	35
4	2-(4-Fluorophenyl)-1,3-benzoxazo...	300	C16H17FN2OSi	1000479-98-9	30
5	.beta.-Humulene	204	C15H24	000116-04-1	27





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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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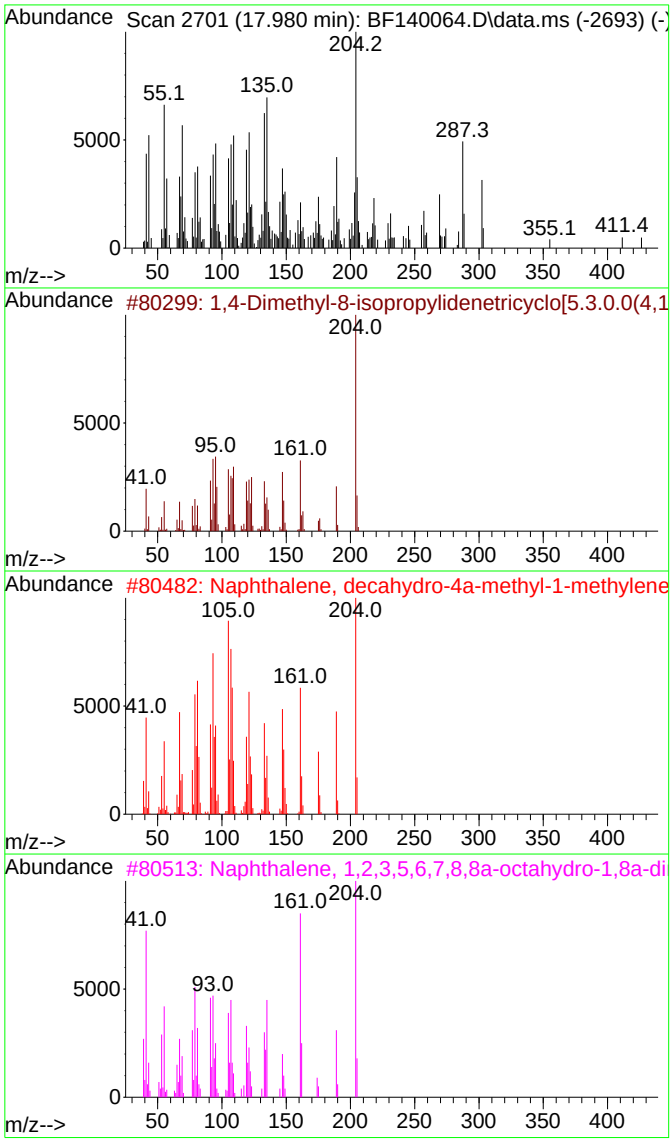
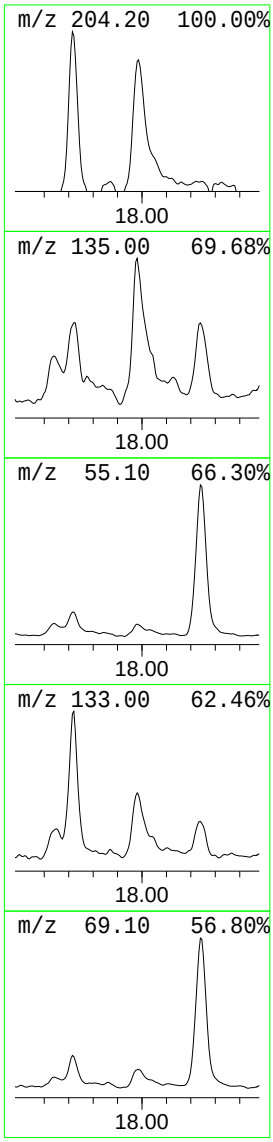
Peak Number 19 1,4-Dimethyl-8-isopropylide... Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.980	10.38 ng	395840	Perylene-d12	15.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,4-Dimethyl-8-isopropylidenetri...	204	C15H24	1010140-07-7	70
2	Naphthalene, decahydro-4a-methyl...	204	C15H24	017066-67-0	70
3	Naphthalene, 1,2,3,5,6,7,8,8a-oc...	204	C15H24	004630-07-3	62
4	1,1,4a-Trimethyl-5,6-dimethylene...	204	C15H24	1000193-60-8	62
5	2,5,5,8a-Tetramethyl-6,7,8,8a-te...	204	C14H20O	124957-09-1	50





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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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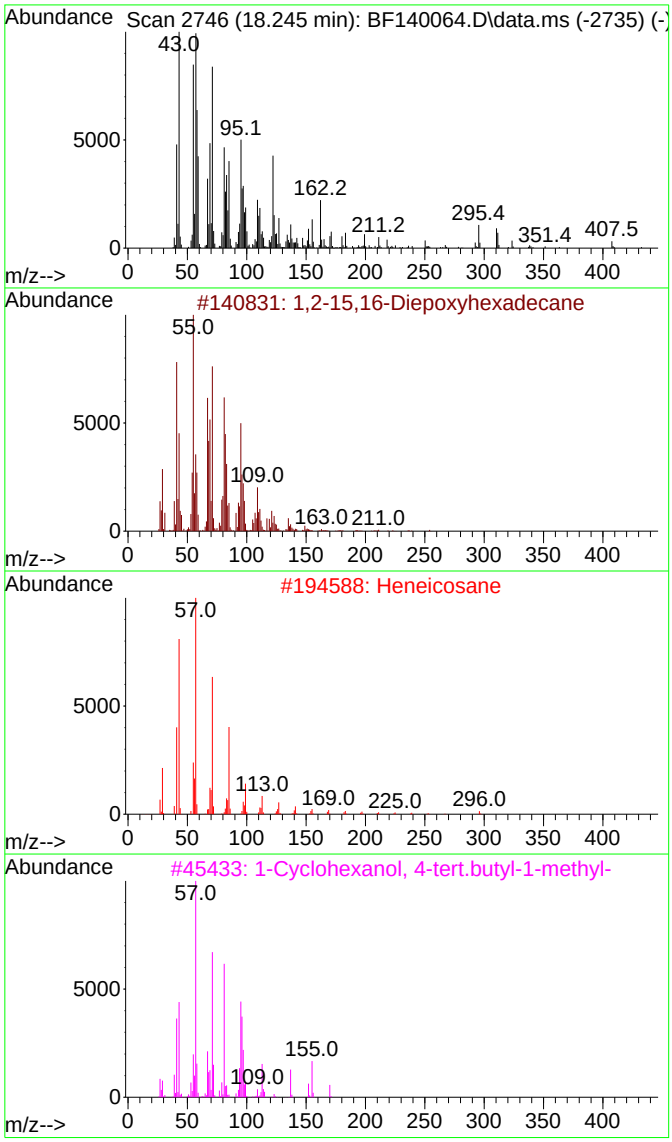
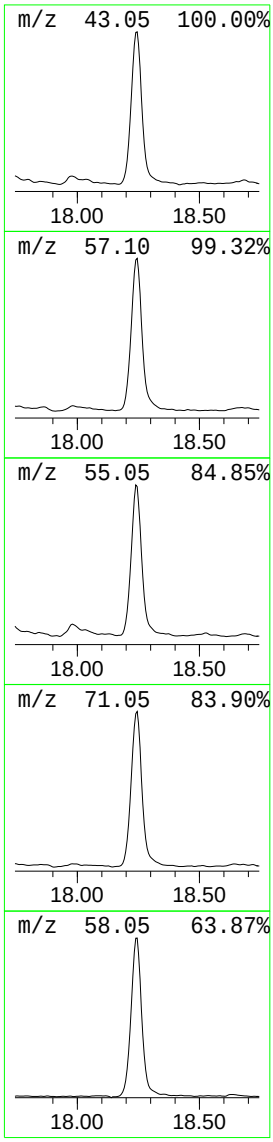
Peak Number 20 1,2-15,16-Diepoxyhexadecane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.245	46.29 ng	1764340	Perylene-d12	15.527

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,2-15,16-Diepoxyhexadecane	254	C16H30O2	1000192-65-0	50
2	Heneicosane	296	C21H44	000629-94-7	42
3	1-Cyclohexanol, 4-tert.butyl-1-m...	170	C11H22O	1010163-45-0	42
4	Tetradecane, 4-methyl-	212	C15H32	025117-24-2	38
5	Carbonic acid, octadecyl prop-1-...	354	C22H42O3	1000383-11-5	30





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
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.alpha.-Pinene	6.175	97.3	ng	4296460	1	6.887	882895	20.0
Camphene	6.340	5.9	ng	260291	1	6.887	882895	20.0
p-Cymene	6.963	14.9	ng	659118	1	6.887	882895	20.0
Fenchol	7.698	7.5	ng	435586	2	8.169	1163650	20.0
Bicyclo[2.2.1]h...	7.916	18.4	ng	1073710	2	8.169	1163650	20.0
endo-Borneol	8.075	7.0	ng	406599	2	8.169	1163650	20.0
Terpinen-4-ol	8.110	8.1	ng	472284	2	8.169	1163650	20.0
n-Hexadecanoic ...	11.933	10.5	ng	599654	4	11.410	1142740	20.0
unknown13.533	13.533	5.4	ng	259209	5	14.045	953505	20.0
1,21-Docosadiene	13.686	6.2	ng	294193	5	14.045	953505	20.0
Dehydroabietic ...	13.845	5.9	ng	282541	5	14.045	953505	20.0
Heptadecyl hept...	13.892	13.4	ng	641279	5	14.045	953505	20.0
Docosanoic acid	14.110	6.2	ng	297625	5	14.045	953505	20.0
Octadecyl trifl...	14.527	16.9	ng	807285	5	14.045	953505	20.0
Hexacosane	15.168	5.9	ng	223350	6	15.527	762355	20.0
.gamma.-Sitosterol	17.639	7.1	ng	269605	6	15.527	762355	20.0
9(1H)-Phenanthr...	17.715	12.3	ng	466793	6	15.527	762355	20.0
1,4-Dimethyl-8-...	17.980	10.4	ng	395840	6	15.527	762355	20.0
1,2-15,16-Diepo...	18.245	46.3	ng	1764340	6	15.527	762355	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139991.D
Acq On : 24 Oct 2024 10:23
Operator : RC/JU
Sample : PB164312BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164312BL

Quant Time: Oct 24 11:02:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

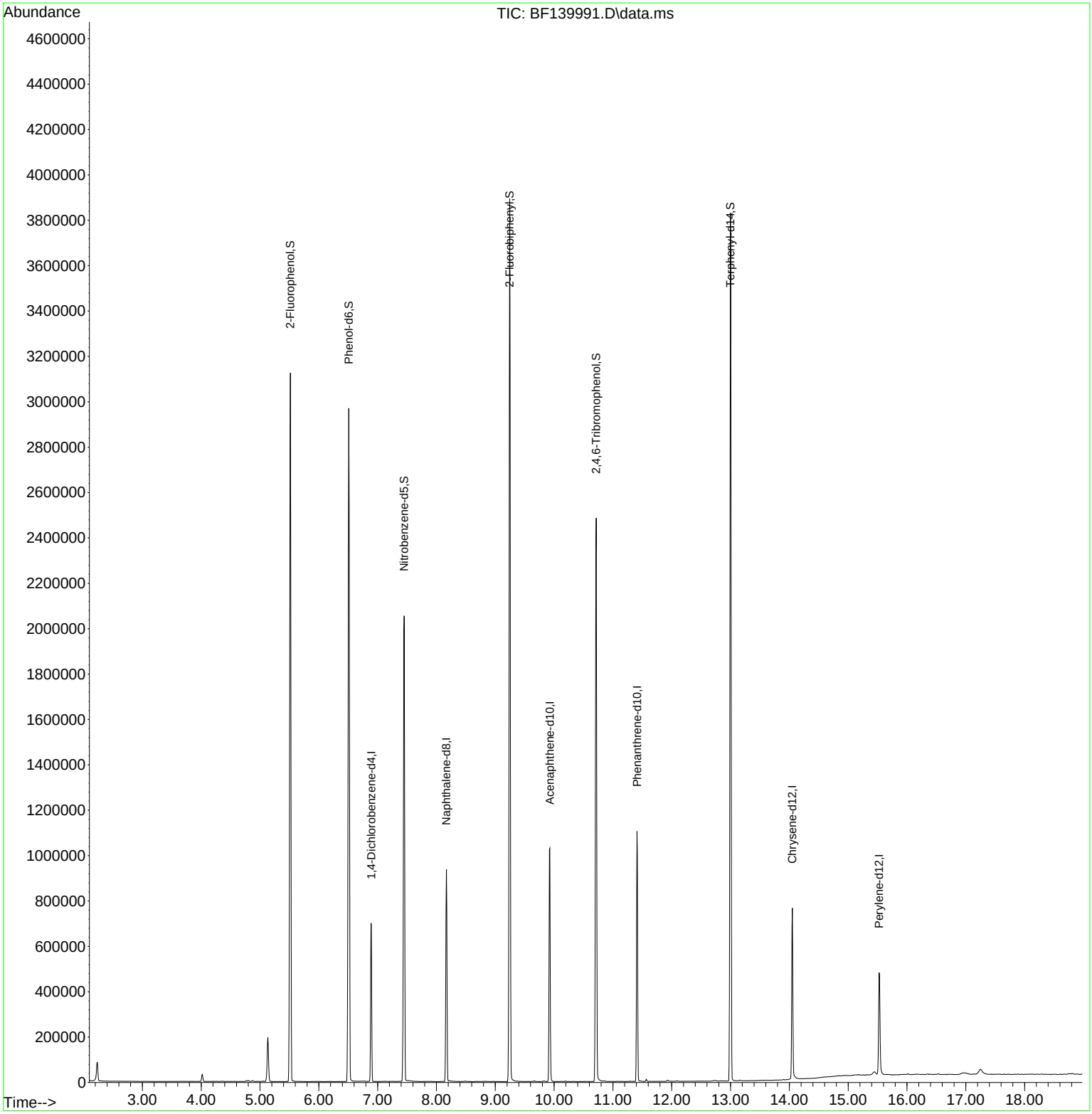
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.892	152	147139	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	571542	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	324595	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	586249	20.000	ng	0.00
76) Chrysene-d12	14.051	240	355232	20.000	ng	0.00
86) Perylene-d12	15.527	264	286763	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1228240	130.679	ng	0.02
7) Phenol-d6	6.510	99	1528051	125.527	ng	0.00
23) Nitrobenzene-d5	7.451	82	994841	96.472	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	478528	157.610	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1832630	93.310	ng	0.00
79) Terphenyl-d14	12.998	244	2024925	92.885	ng	0.00
Target Compounds						Qvalue

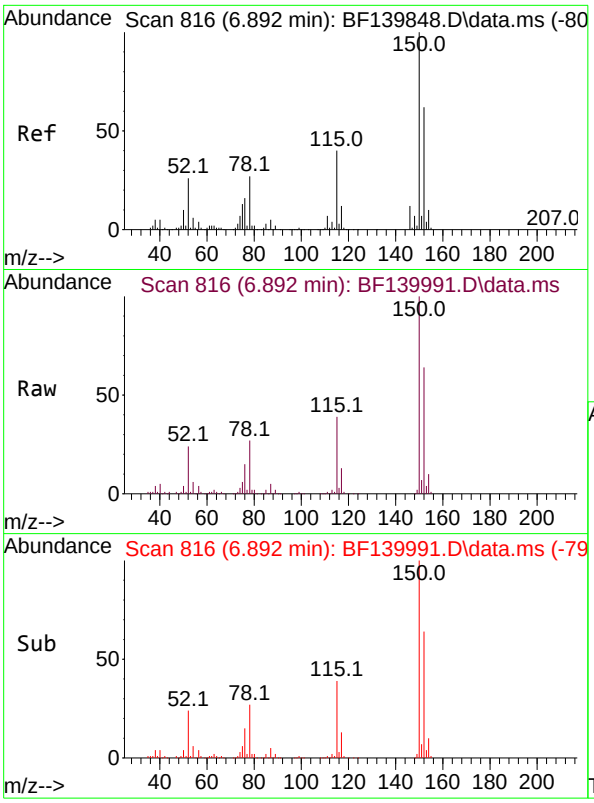
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139991.D
Acq On : 24 Oct 2024 10:23
Operator : RC/JU
Sample : PB164312BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164312BL

Quant Time: Oct 24 11:02:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



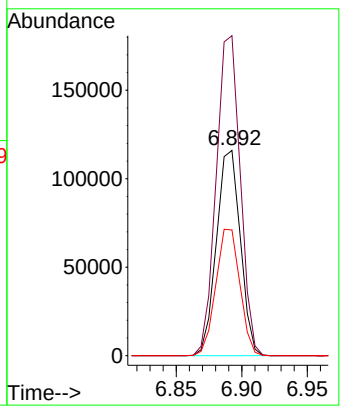


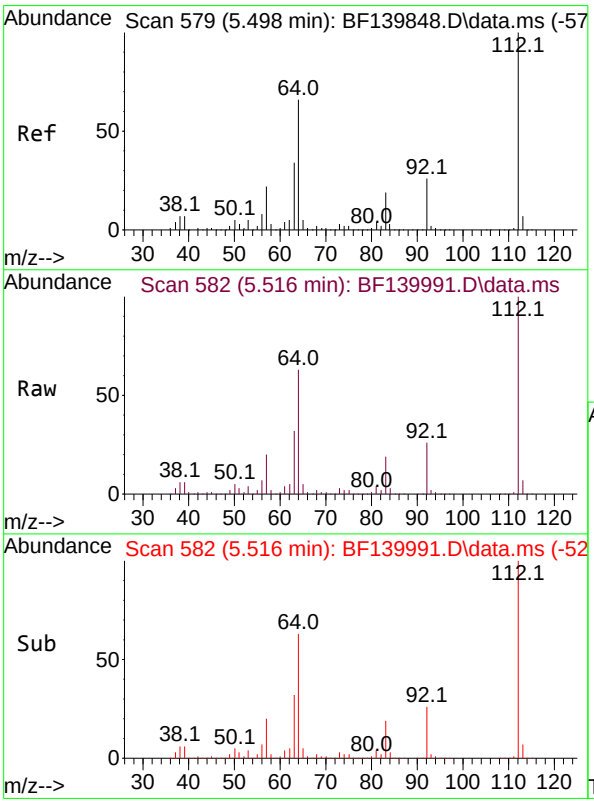
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.892 min Scan# 81
Delta R.T. 0.000 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Instrument :
BNA_F
ClientSampleId :
PB164312BL

Tgt Ion:152 Resp: 147139

Ion	Ratio	Lower	Upper
152	100		
150	155.8	130.2	195.2
115	61.2	51.4	77.2

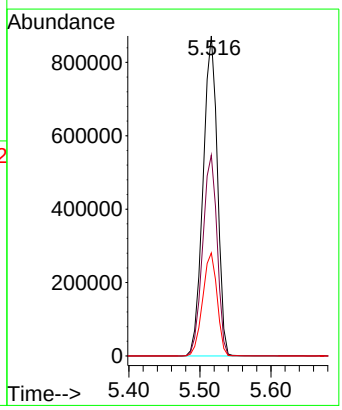


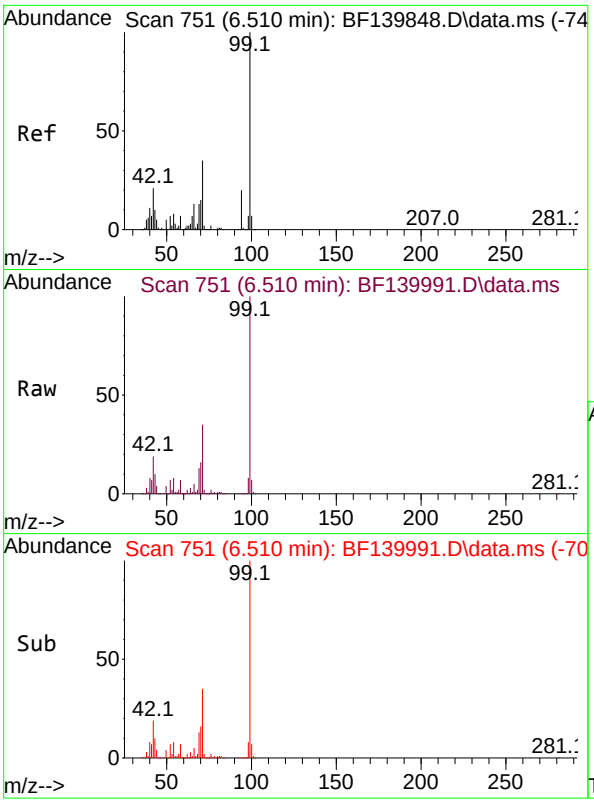


#5
2-Fluorophenol
Concen: 130.679 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Tgt Ion:112 Resp: 1228240

Ion	Ratio	Lower	Upper
112	100		
64	62.8	53.0	79.6
63	32.2	27.0	40.4



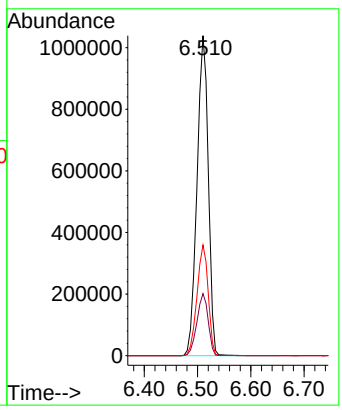


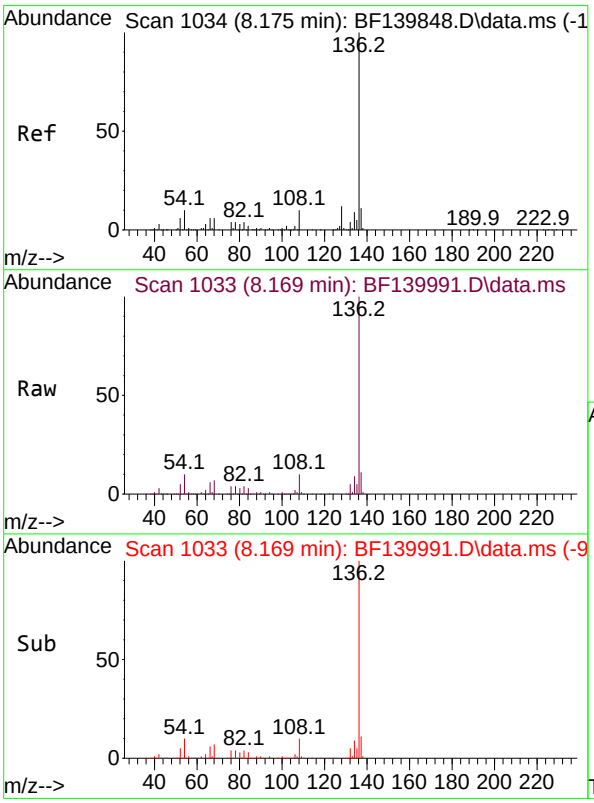
#7
Phenol-d6
Concen: 125.527 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Instrument :
BNA_F
ClientSampleId :
PB164312BL

Tgt Ion: 99 Resp: 1528051

Ion	Ratio	Lower	Upper
99	100		
42	19.4	16.7	25.1
71	34.6	27.7	41.5

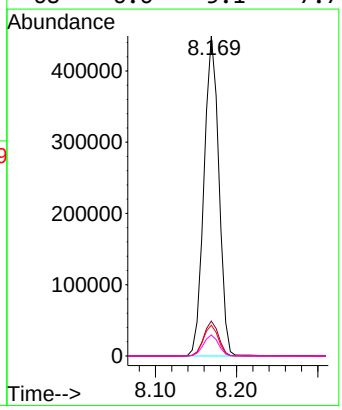


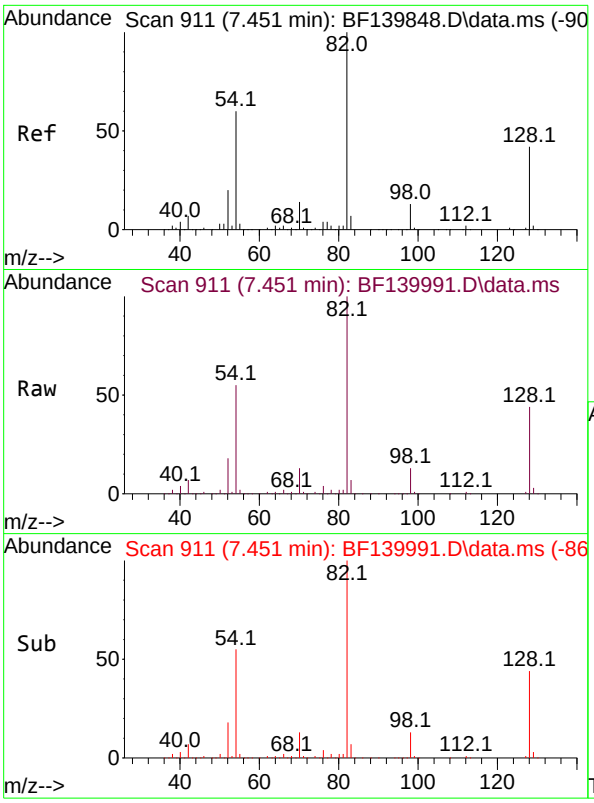


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Tgt Ion:136 Resp: 571542

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	9.6	8.4	12.6
68	6.6	5.1	7.7



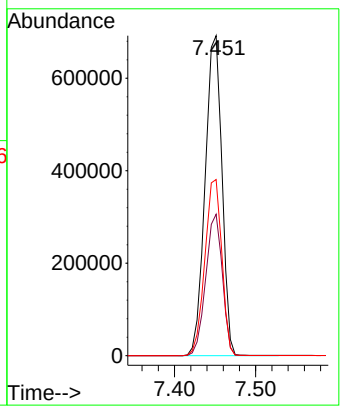


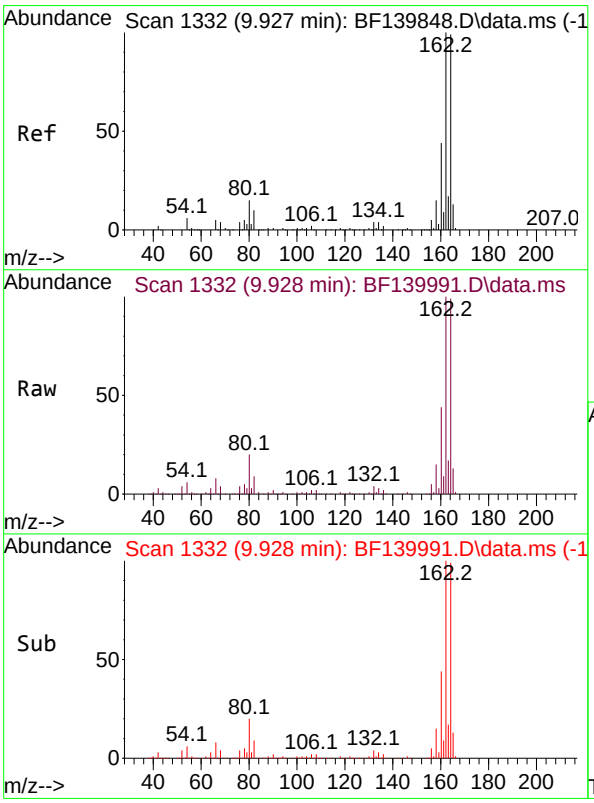
#23
Nitrobenzene-d5
Concen: 96.472 ng
RT: 7.451 min Scan# 91
Delta R.T. 0.000 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Instrument :
BNA_F
ClientSampleId :
PB164312BL

Tgt Ion: 82 Resp: 994841

Ion	Ratio	Lower	Upper
82	100		
128	44.2	33.4	50.0
54	55.1	47.8	71.8

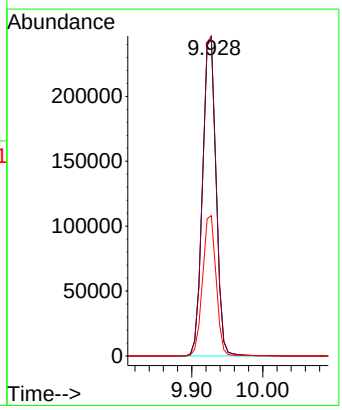


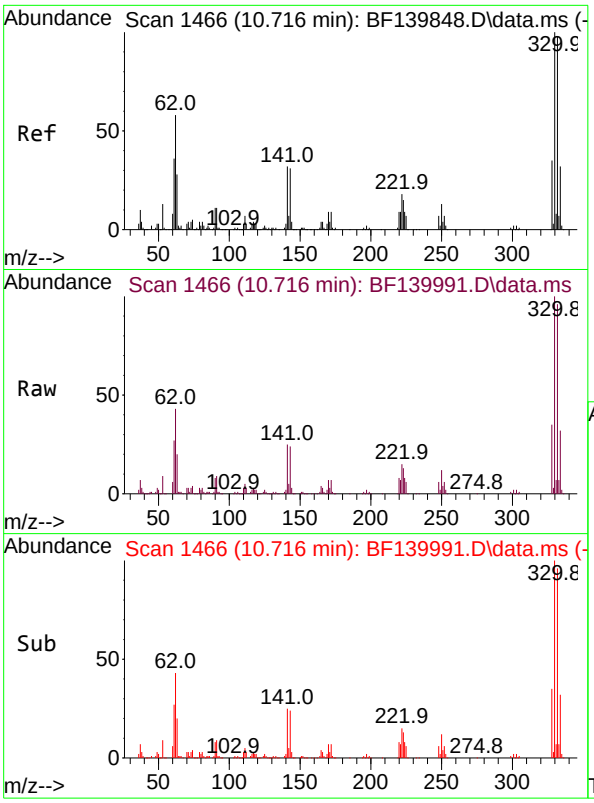


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1332
Delta R.T. 0.001 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Tgt Ion:164 Resp: 324595

Ion	Ratio	Lower	Upper
164	100		
162	100.9	81.0	121.4
160	44.2	35.4	53.0



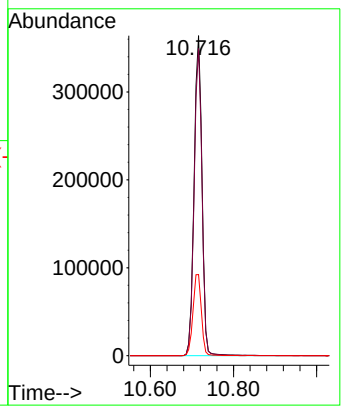


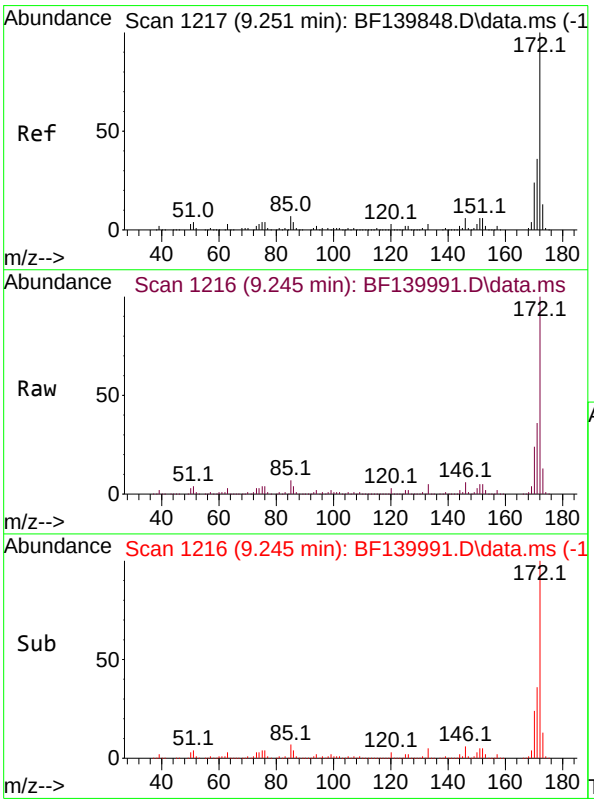
#42
2,4,6-Tribromophenol
Concen: 157.610 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Instrument :
BNA_F
ClientSampleId :
PB164312BL

Tgt Ion:330 Resp: 478528

Ion	Ratio	Lower	Upper
330	100		
332	95.8	78.1	117.1
141	27.0	26.6	39.8

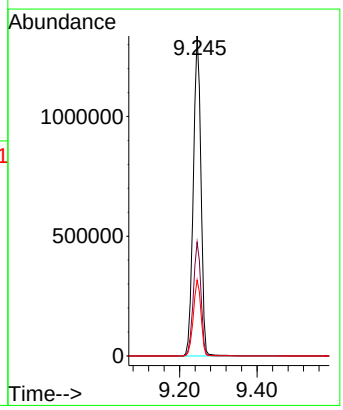


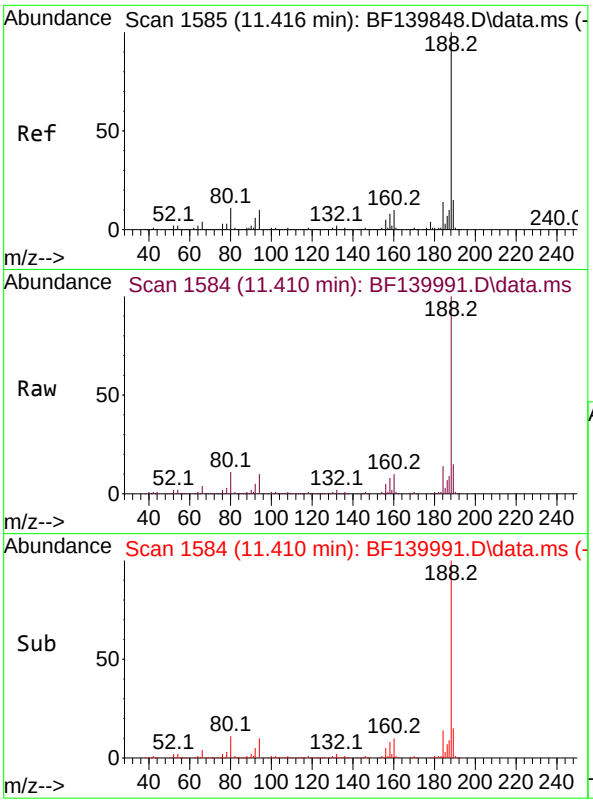


#45
2-Fluorobiphenyl
Concen: 93.310 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Tgt Ion:172 Resp: 1832630

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.6	43.0
170	23.8	19.1	28.7



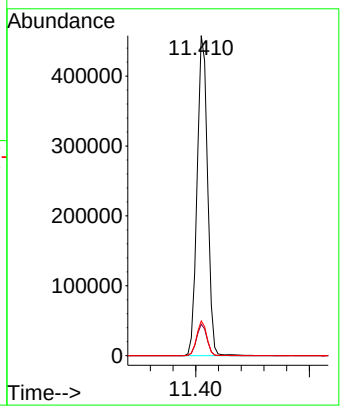


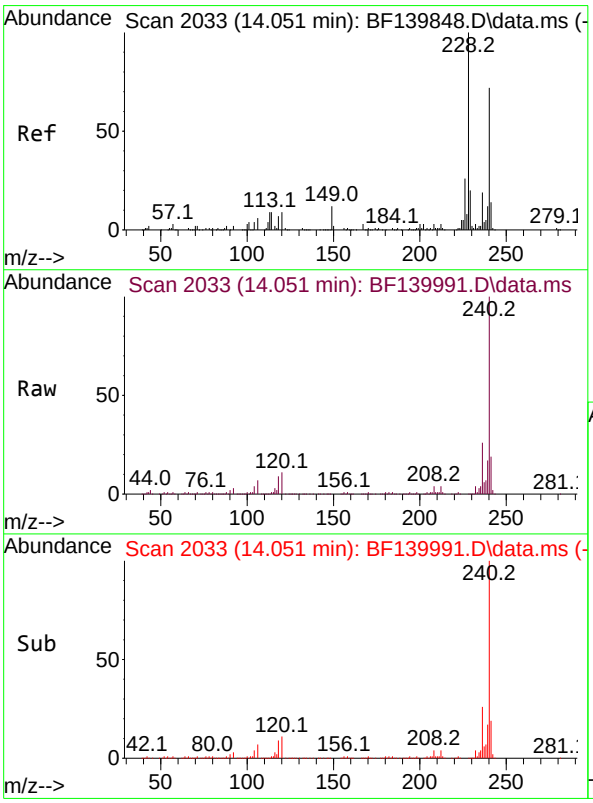
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Instrument :
BNA_F
ClientSampleId :
PB164312BL

Tgt Ion:188 Resp: 586249

Ion	Ratio	Lower	Upper
188	100		
94	9.9	7.9	11.9
80	10.9	9.0	13.4

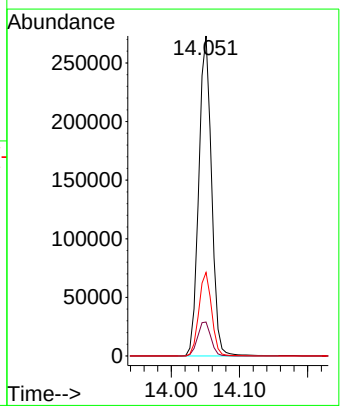


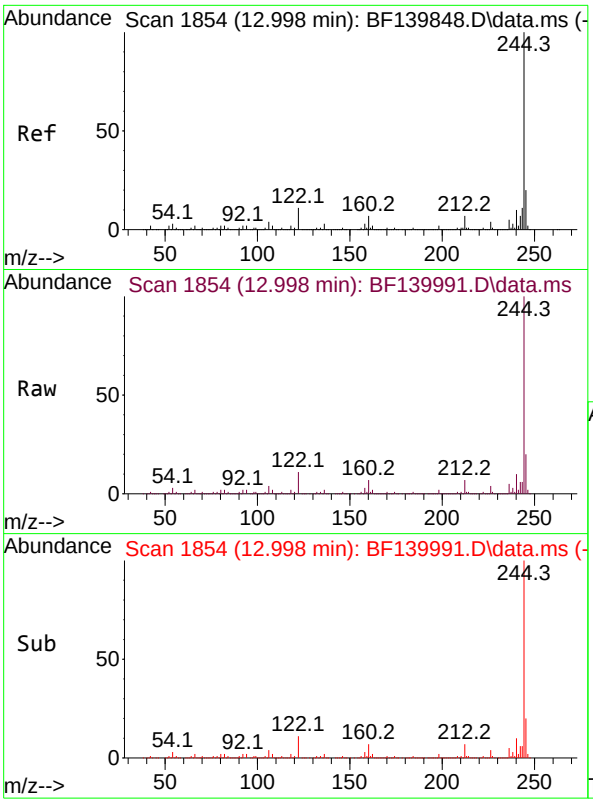


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Tgt Ion:240 Resp: 355232

Ion	Ratio	Lower	Upper
240	100		
120	10.6	9.4	14.2
236	26.1	20.9	31.3



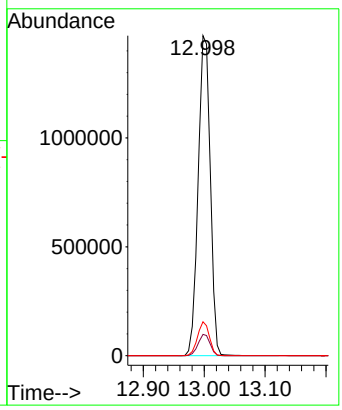


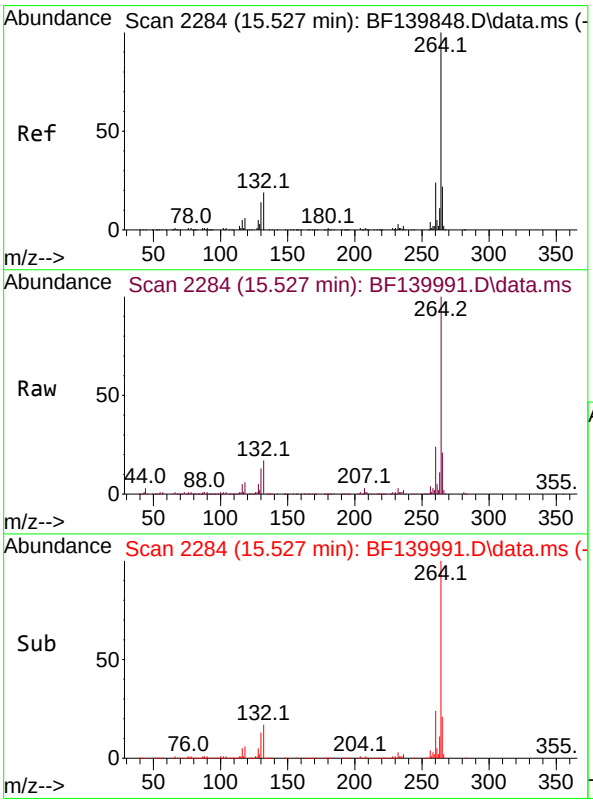
#79
Terphenyl-d14
Concen: 92.885 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Instrument :
BNA_F
ClientSampleId :
PB164312BL

Tgt Ion:244 Resp: 2024925

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.7	8.5
122	10.6	8.6	13.0

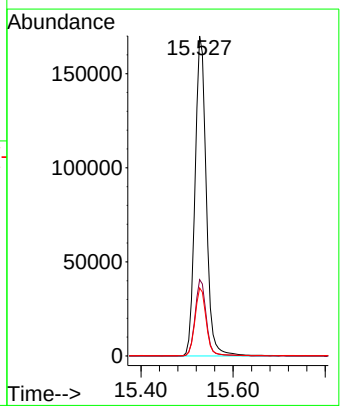




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF139991.D
Acq: 24 Oct 2024 10:23

Tgt Ion:264 Resp: 286763

Ion	Ratio	Lower	Upper
264	100		
260	23.8	19.4	29.2
265	21.3	17.4	26.0



Sample Results: **BF139991.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139991.D
Acq On : 24 Oct 2024 10:23
Operator : RC/JU
Sample : PB164312BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164312BL

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-BF101824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF139991.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	31	rVB	81415	146620	2.78%	0.449%
2	5.134	509	517	525	rVB	193943	322201	6.12%	0.987%
3	5.516	575	582	587	rBV	3122725	4409664	83.71%	13.502%
4	6.510	744	751	756	rBV	2966980	4349459	82.57%	13.317%
5	6.887	810	815	821	rVB	696449	894857	16.99%	2.740%
6	7.451	904	911	916	rBV	2051451	2947021	55.94%	9.023%
7	8.169	1027	1033	1038	rBV	935332	1187285	22.54%	3.635%
8	9.245	1209	1216	1221	rBV	3890823	5267877	100.00%	16.129%
9	9.928	1326	1332	1346	rVB	1027470	1373676	26.08%	4.206%
10	10.716	1459	1466	1484	rBV	2482772	3394559	64.44%	10.394%
11	11.410	1579	1584	1590	rBV	1102228	1396849	26.52%	4.277%
12	12.998	1848	1854	1860	rBV	3825439	5202454	98.76%	15.929%
13	14.051	2027	2033	2055	rVB	752452	1019120	19.35%	3.120%
14	15.527	2278	2284	2298	rVB	448263	748368	14.21%	2.291%

Sum of corrected areas: 32660010

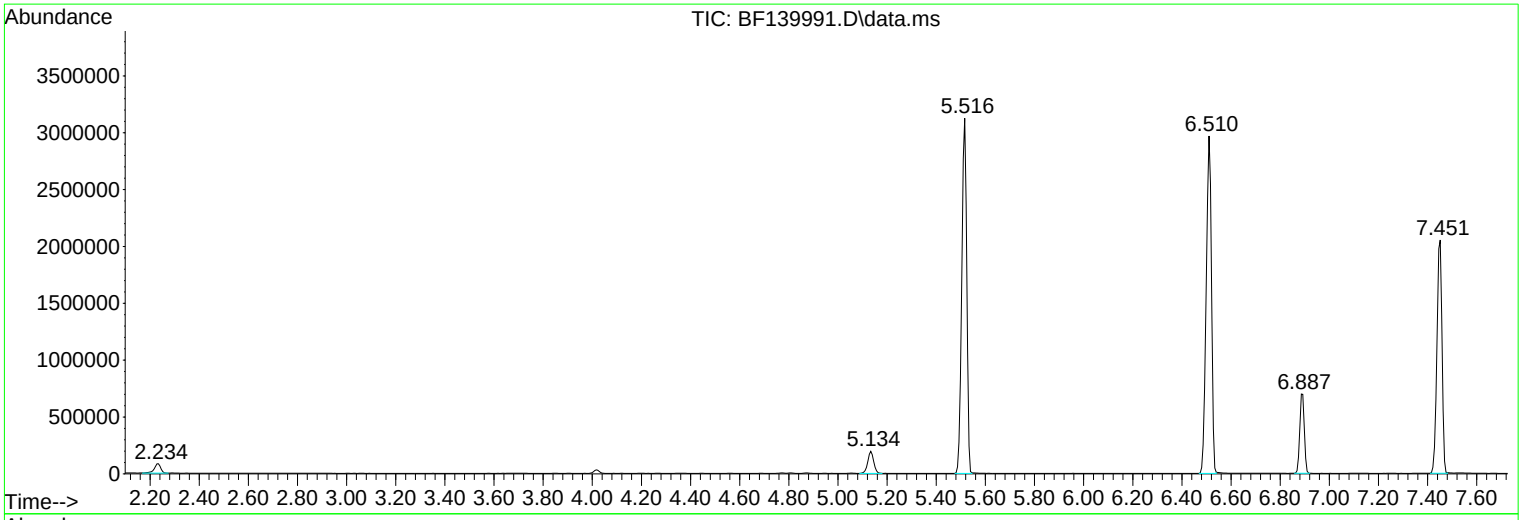
Sample Results: **BF139991.D**

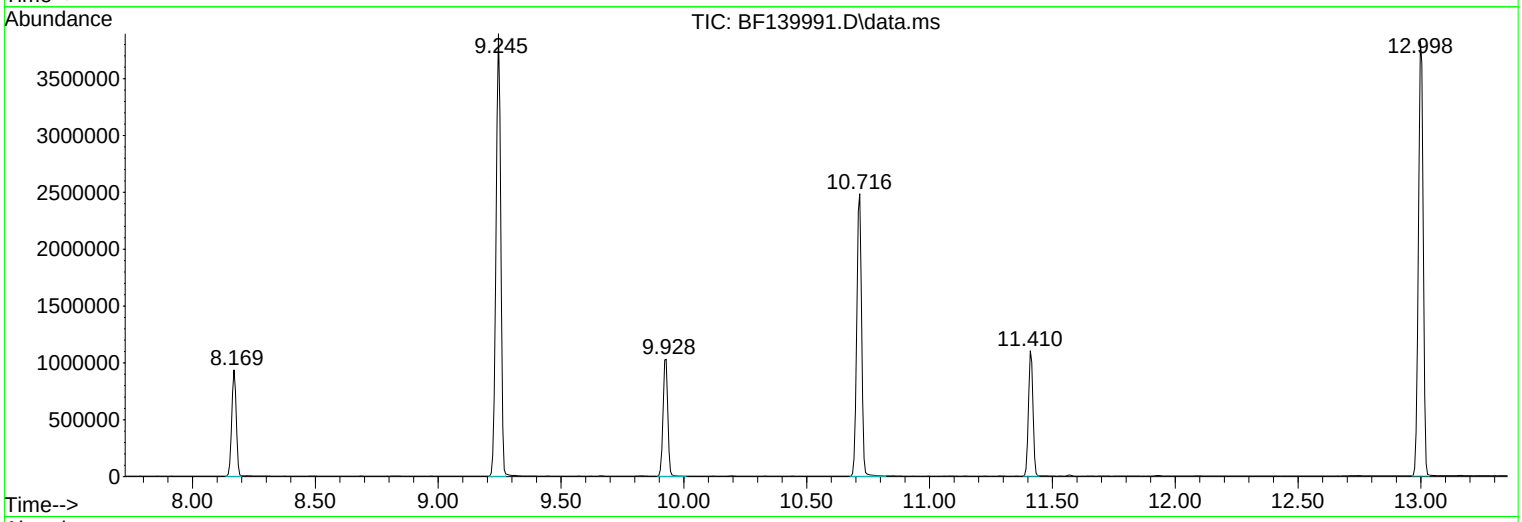
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139991.D
Acq On : 24 Oct 2024 10:23
Operator : RC/JU
Sample : PB164312BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

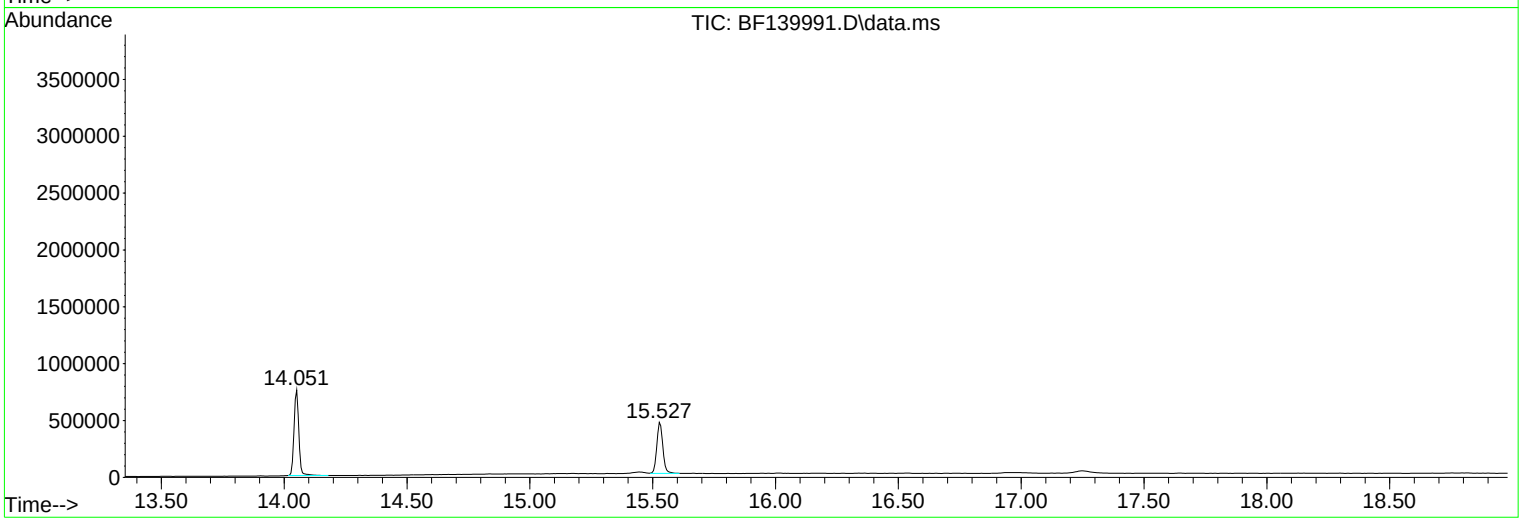
Instrument :
BNA_F
ClientSampleId :
PB164312BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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\BF102424\
Data File : BF139991.D
Acq On : 24 Oct 2024 10:23
Operator : RC/JU
Sample : PB164312BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164312BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

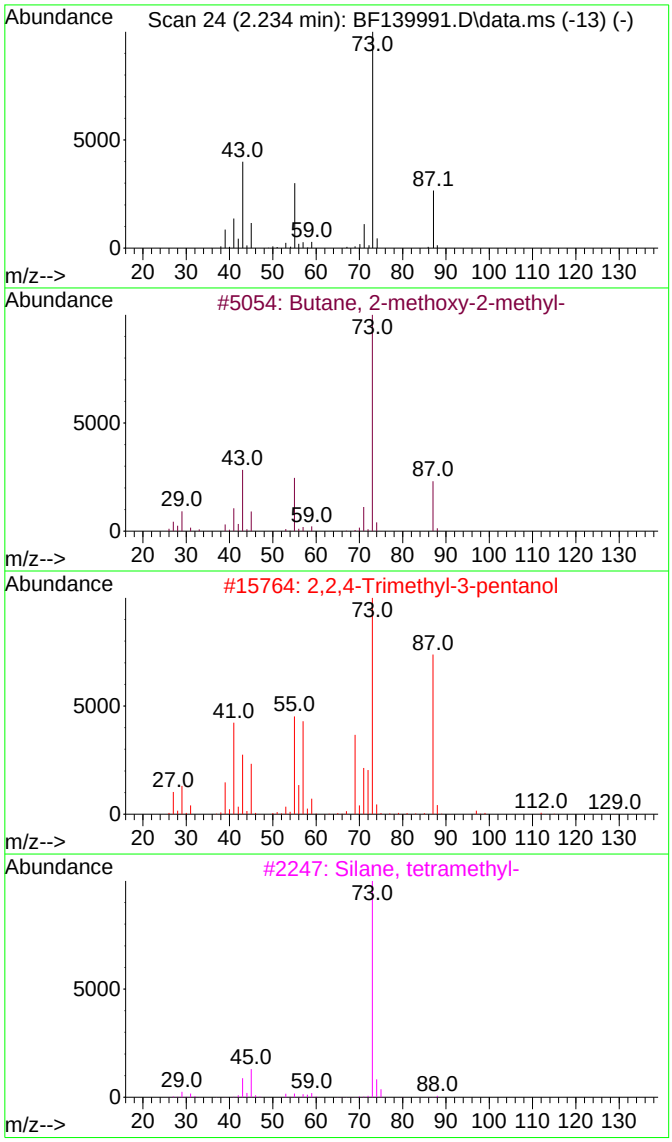
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

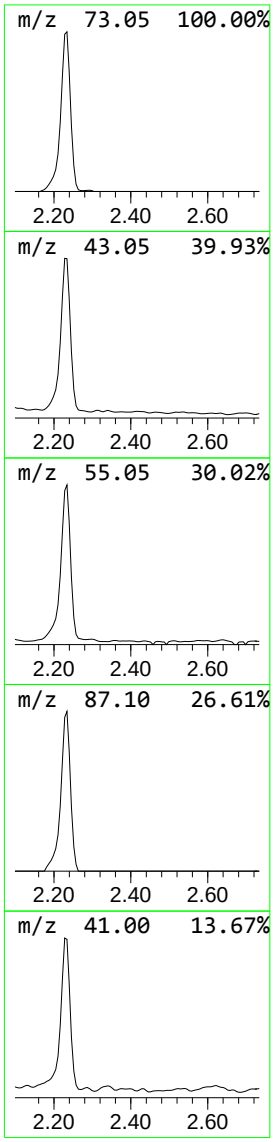
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.234	3.28 ng	146620	1,4-Dichlorobenzene-d4	6.892

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	39
3	Silane, tetramethyl-	88	C4H12Si	000075-76-3	38
4	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17
5	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139991.D
Acq On : 24 Oct 2024 10:23
Operator : RC/JU
Sample : PB164312BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164312BL

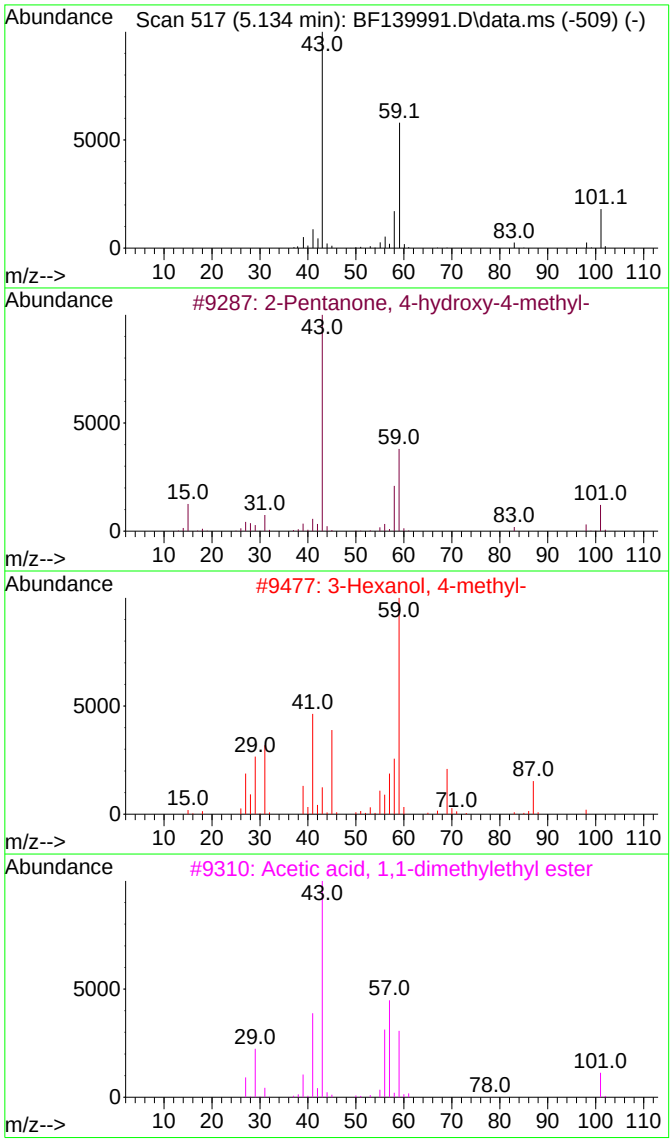
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

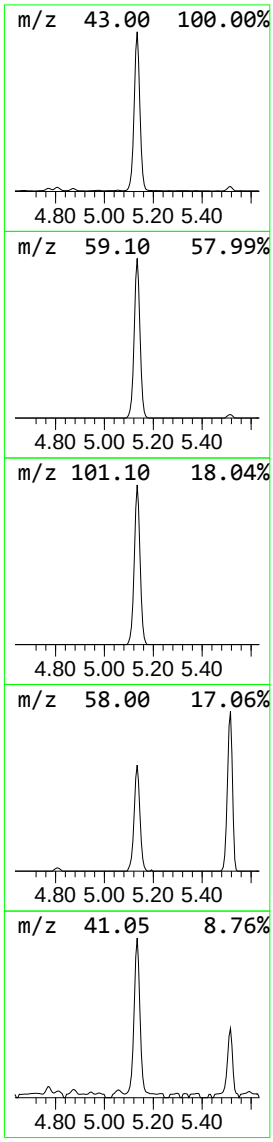
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
5.134	7.20 ng	322201	1,4-Dichlorobenzene-d4	6.892

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	59
2	3-Hexanol, 4-methyl-	116	C7H16O	000615-29-2	33
3	Acetic acid, 1,1-dimethylethyl e...	116	C6H12O2	000540-88-5	28
4	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	25
5	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	12





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139991.D
Acq On : 24 Oct 2024 10:23
Operator : RC/JU
Sample : PB164312BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164312BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.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...	2.234	3.3	ng	146620	1	6.892	894857	20.0
2-Pentanone, 4-...	5.134	7.2	ng	322201	1	6.892	894857	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139992.D
Acq On : 24 Oct 2024 10:52
Operator : RC/JU
Sample : PB164312BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164312BS

Quant Time: Oct 24 11:20:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.892	152	158670	20.000	ng		0.00
21) Naphthalene-d8	8.175	136	605986	20.000	ng		0.00
39) Acenaphthene-d10	9.927	164	338004	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	591954	20.000	ng		0.00
76) Chrysene-d12	14.057	240	292113	20.000	ng		0.00
86) Perylene-d12	15.533	264	314861	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.522	112	1308935	129.144	ng		0.02
7) Phenol-d6	6.516	99	1648944	125.614	ng		0.00
23) Nitrobenzene-d5	7.451	82	1086965	99.414	ng		0.00
42) 2,4,6-Tribromophenol	10.722	330	494913	156.540	ng		0.00
45) 2-Fluorobiphenyl	9.251	172	1920305	93.895	ng		0.00
79) Terphenyl-d14	12.998	244	1881226	104.940	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.775	88	180701	38.238	ng		93
3) Pyridine	3.528	79	476327	40.665	ng		96
4) n-Nitrosodimethylamine	3.481	42	264705	42.061	ng		94
6) Aniline	6.551	93	590576	48.273	ng		99
8) 2-Chlorophenol	6.675	128	500078	48.263	ng		97
9) Benzaldehyde	6.439	77	110010	14.897	ng		98
10) Phenol	6.534	94	605793m	44.763	ng		
11) bis(2-Chloroethyl)ether	6.628	93	480190	45.906	ng		99
12) 1,3-Dichlorobenzene	6.834	146	537956	45.228	ng		99
13) 1,4-Dichlorobenzene	6.910	146	540145	45.455	ng		99
14) 1,2-Dichlorobenzene	7.063	146	523441	47.197	ng		98
15) Benzyl Alcohol	7.028	79	454342	47.184	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	786365	44.088	ng		97
17) 2-Methylphenol	7.139	107	405261	45.868	ng		100
18) Hexachloroethane	7.404	117	194546	45.910	ng		97
19) n-Nitroso-di-n-propyla...	7.304	70	361075	45.352	ng		96
20) 3+4-Methylphenols	7.292	107	492067	43.542	ng	#	81
22) Acetophenone	7.298	105	677280	45.631	ng		99
24) Nitrobenzene	7.475	77	542543	45.258	ng		98
25) Isophorone	7.710	82	983786	47.406	ng		100
26) 2-Nitrophenol	7.786	139	262619	58.071	ng		95
27) 2,4-Dimethylphenol	7.822	122	412612	54.717	ng		99
28) bis(2-Chloroethoxy)met...	7.922	93	586376	46.637	ng		99
29) 2,4-Dichlorophenol	8.028	162	408904	47.607	ng		98
30) 1,2,4-Trichlorobenzene	8.110	180	439184	46.210	ng		99
31) Naphthalene	8.192	128	1446510	46.284	ng		100
32) Benzoic acid	7.939	122	317111	48.215	ng		95
33) 4-Chloroaniline	8.239	127	379752	35.634	ng		98
34) Hexachlorobutadiene	8.310	225	283363	47.452	ng		99
35) Caprolactam	8.610	113	129458m	47.402	ng		
36) 4-Chloro-3-methylphenol	8.716	107	442021	46.476	ng		98
37) 2-Methylnaphthalene	8.886	142	907765	47.426	ng		99
38) 1-Methylnaphthalene	8.986	142	843621	44.923	ng		100
40) 1,2,4,5-Tetrachloroben...	9.051	216	429093	47.056	ng		99
41) Hexachlorocyclopentadiene	9.039	237	572352	180.387	ng		99
43) 2,4,6-Trichlorophenol	9.163	196	319801	49.535	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139992.D
Acq On : 24 Oct 2024 10:52
Operator : RC/JU
Sample : PB164312BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164312BS

Quant Time: Oct 24 11:20:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

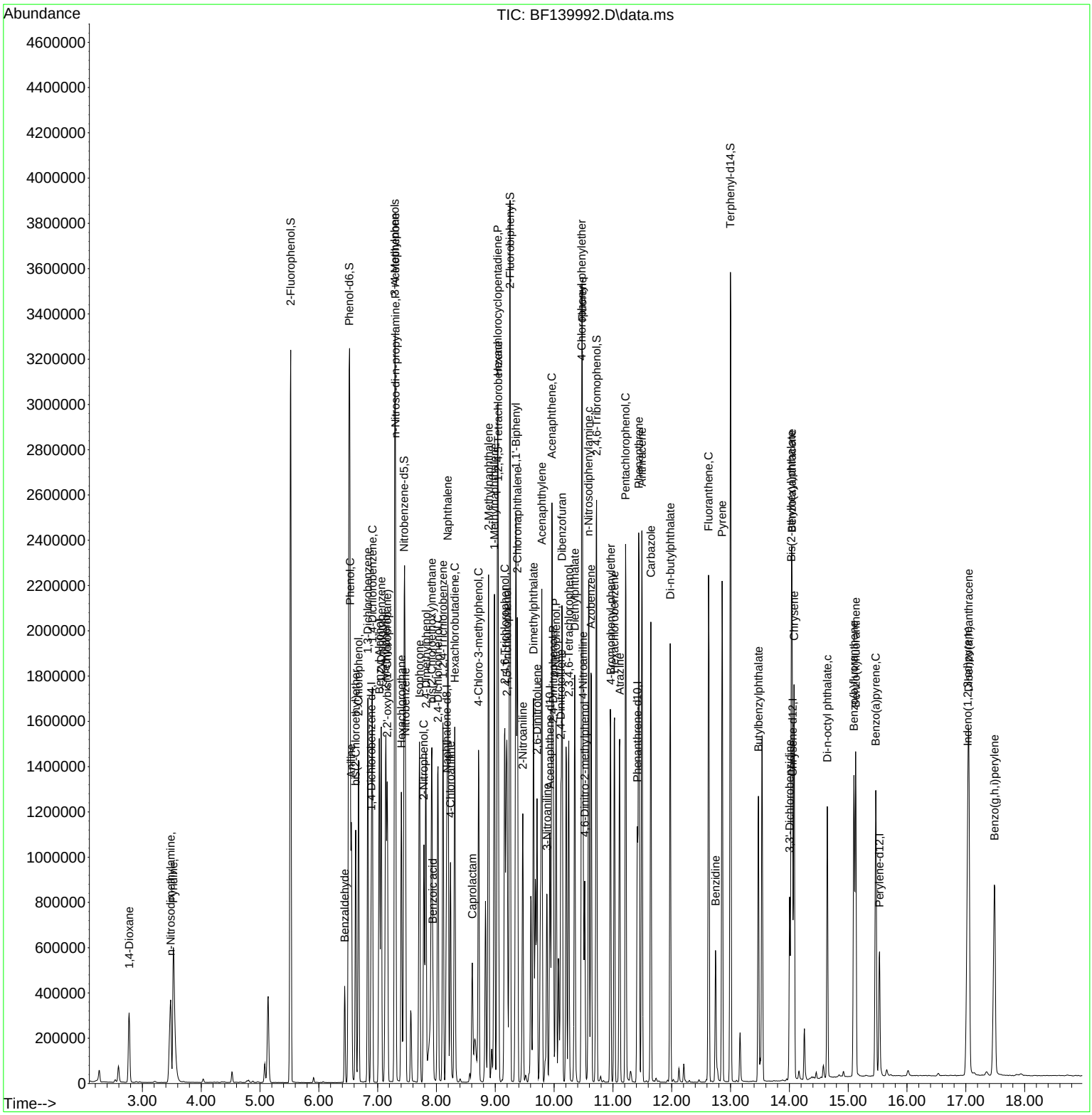
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	315968	47.437	ng		99
46) 1,1'-Biphenyl	9.351	154	1081469	45.961	ng		100
47) 2-Chloronaphthalene	9.375	162	865022	45.644	ng		99
48) 2-Nitroaniline	9.469	65	293375	50.615	ng		92
49) Acenaphthylene	9.792	152	1341986	48.981	ng		100
50) Dimethylphthalate	9.651	163	1002087	47.597	ng		100
51) 2,6-Dinitrotoluene	9.710	165	219806	48.219	ng		98
52) Acenaphthene	9.963	154	929324	52.434	ng		99
53) 3-Nitroaniline	9.880	138	180179	38.328	ng		95
54) 2,4-Dinitrophenol	9.986	184	253310	129.360	ng	#	1
55) Dibenzofuran	10.133	168	1173942	46.165	ng		99
56) 4-Nitrophenol	10.033	139	364335	100.737	ng		99
57) 2,4-Dinitrotoluene	10.116	165	299344	53.399	ng		95
58) Fluorene	10.480	166	887613	45.828	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.251	232	264175	50.592	ng		97
60) Diethylphthalate	10.351	149	948009	45.861	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	456284	46.650	ng		98
62) 4-Nitroaniline	10.492	138	218664	49.250	ng		97
63) Azobenzene	10.627	77	989662	45.159	ng		98
65) 4,6-Dinitro-2-methylph...	10.522	198	166902	69.123	ng		91
66) n-Nitrosodiphenylamine	10.586	169	819107	46.233	ng		99
67) 4-Bromophenyl-phenylether	10.963	248	296668	48.648	ng		94
68) Hexachlorobenzene	11.027	284	328315	47.870	ng		96
69) Atrazine	11.116	200	266196	55.466	ng		99
70) Pentachlorophenol	11.216	266	403359	96.904	ng		98
71) Phenanthrene	11.439	178	1310493	46.868	ng		100
72) Anthracene	11.492	178	1322483	48.475	ng		100
73) Carbazole	11.645	167	1132071	44.618	ng		99
74) Di-n-butylphthalate	11.974	149	1350031	46.055	ng		100
75) Fluoranthene	12.627	202	1261587	44.631	ng		99
77) Benzidine	12.745	184	334255	69.588	ng		99
78) Pyrene	12.857	202	1259310	49.250	ng		100
80) Butylbenzylphthalate	13.474	149	394925	51.518	ng		98
81) Benzo(a)anthracene	14.045	228	918683	48.312	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	245591	44.296	ng		99
83) Chrysene	14.080	228	844559	48.440	ng		100
84) Bis(2-ethylhexyl)phtha...	14.033	149	450798	52.414	ng		99
85) Di-n-octyl phthalate	14.645	149	771205	49.299	ng		96
87) Indeno(1,2,3-cd)pyrene	17.033	276	1098295	54.221	ng		98
88) Benzo(b)fluoranthene	15.098	252	921966	48.069	ng		99
89) Benzo(k)fluoranthene	15.127	252	724415	43.795	ng		99
90) Benzo(a)pyrene	15.468	252	803529	50.915	ng		99
91) Dibenzo(a,h)anthracene	17.051	278	903618	53.475	ng		99
92) Benzo(g,h,i)perylene	17.486	276	855224	50.669	ng		99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF139992.D
Acq On : 24 Oct 2024 10:52
Operator : RC/JU
Sample : PB164312BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164312BS

Quant Time: Oct 24 11:20:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140004.D
Acq On : 24 Oct 2024 16:48
Operator : RC/JU
Sample : P4467-01MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1MS

Quant Time: Oct 24 17:21:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	151264	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	576250	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	315137	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	529411	20.000	ng	0.00
76) Chrysene-d12	14.051	240	267551	20.000	ng	0.00
86) Perylene-d12	15.533	264	360724	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	805687	83.384	ng	0.01
7) Phenol-d6	6.510	99	1021804	81.650	ng	0.00
23) Nitrobenzene-d5	7.451	82	642796	61.824	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	283105	96.043	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1123670	58.929	ng	0.00
79) Terphenyl-d14	12.998	244	915305	55.745	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.740	88	171832	38.142	ng	93
3) Pyridine	3.499	79	438761	39.292	ng	95
4) n-Nitrosodimethylamine	3.452	42	235636	39.275	ng	97
6) Aniline	6.551	93	456018	39.099	ng	98
8) 2-Chlorophenol	6.675	128	443860	44.935	ng	96
9) Benzaldehyde	6.440	77	92752	13.175	ng	95
10) Phenol	6.528	94	561724m	43.539	ng	
11) bis(2-Chloroethyl)ether	6.622	93	430545	43.175	ng	99
12) 1,3-Dichlorobenzene	6.834	146	477261	42.090	ng	98
13) 1,4-Dichlorobenzene	6.910	146	489383	43.199	ng	98
14) 1,2-Dichlorobenzene	7.063	146	462436	43.738	ng	98
15) Benzyl Alcohol	7.028	79	405333	44.155	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	701721	41.269	ng	97
17) 2-Methylphenol	7.134	107	365135	43.350	ng	99
18) Hexachloroethane	7.404	117	173112	42.852	ng	96
19) n-Nitroso-di-n-propyla...	7.298	70	319244	42.061	ng	97
20) 3+4-Methylphenols	7.287	107	450776	41.841	ng	95
22) Acetophenone	7.298	105	605629	42.909	ng	98
24) Nitrobenzene	7.469	77	481672	42.254	ng	99
25) Isophorone	7.710	82	867683	43.969	ng	99
26) 2-Nitrophenol	7.787	139	227680	52.943	ng	97
27) 2,4-Dimethylphenol	7.822	122	371367	51.788	ng	99
28) bis(2-Chloroethoxy)met...	7.922	93	517766	43.306	ng	99
29) 2,4-Dichlorophenol	8.028	162	369829	45.279	ng	98
30) 1,2,4-Trichlorobenzene	8.110	180	382660	42.340	ng	99
31) Naphthalene	8.192	128	1284074	43.206	ng	100
32) Benzoic acid	7.928	122	261579	41.824	ng	98
33) 4-Chloroaniline	8.239	127	160062	15.795	ng	97
34) Hexachlorobutadiene	8.310	225	250591	44.130	ng	99
35) Caprolactam	8.610	113	116159m	44.727	ng	
36) 4-Chloro-3-methylphenol	8.716	107	394038	43.569	ng	97
37) 2-Methylnaphthalene	8.887	142	802736	44.103	ng	100
38) 1-Methylnaphthalene	8.987	142	752339	42.130	ng	99
40) 1,2,4,5-Tetrachloroben...	9.051	216	380696	44.778	ng	99
41) Hexachlorocyclopentadiene	9.039	237	471357	159.336	ng	100
43) 2,4,6-Trichlorophenol	9.157	196	282232	46.888	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140004.D
Acq On : 24 Oct 2024 16:48
Operator : RC/JU
Sample : P4467-01MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1MS

Quant Time: Oct 24 17:21:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

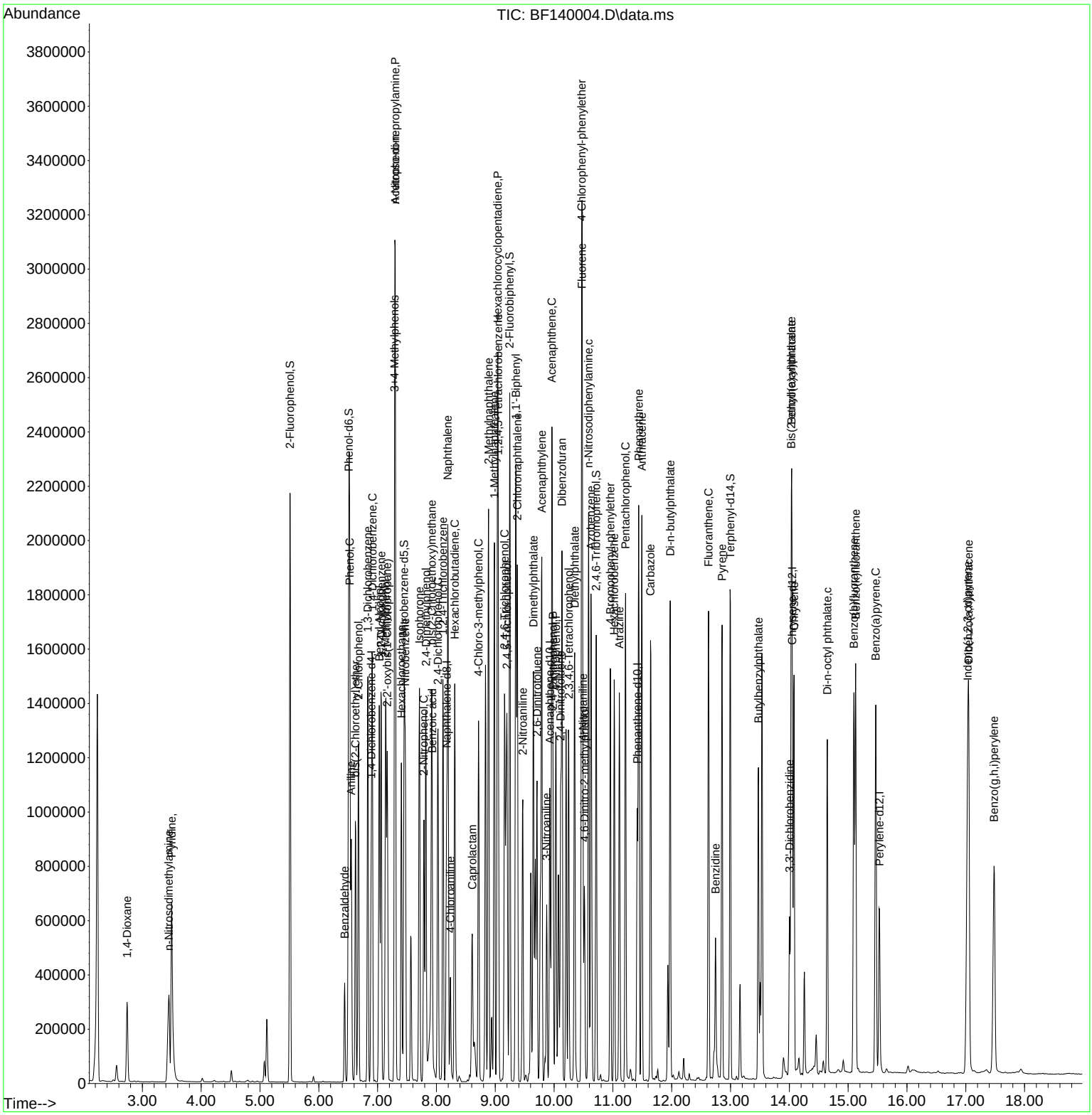
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	280392	45.150	ng		99
46) 1,1'-Biphenyl	9.351	154	973591	44.379	ng		99
47) 2-Chloronaphthalene	9.375	162	769688	43.561	ng		99
48) 2-Nitroaniline	9.469	65	257832	47.711	ng		90
49) Acenaphthylene	9.792	152	1189746	46.575	ng		100
50) Dimethylphthalate	9.651	163	897645	45.730	ng		100
51) 2,6-Dinitrotoluene	9.710	165	196954	46.341	ng		94
52) Acenaphthene	9.963	154	807584	48.872	ng		99
53) 3-Nitroaniline	9.875	138	130524	29.780	ng		98
54) 2,4-Dinitrophenol	9.981	184	182723	101.561	ng	#	1
55) Dibenzofuran	10.134	168	1054724	44.486	ng		98
56) 4-Nitrophenol	10.034	139	307515	91.196	ng		96
57) 2,4-Dinitrotoluene	10.110	165	264413	50.591	ng		96
58) Fluorene	10.475	166	789620	43.727	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.251	232	227526	46.735	ng		96
60) Diethylphthalate	10.351	149	863653	44.811	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	404311	44.335	ng		98
62) 4-Nitroaniline	10.492	138	187027	45.181	ng		96
63) Azobenzene	10.628	77	960246	46.996	ng		95
65) 4,6-Dinitro-2-methylph...	10.516	198	130518	60.440	ng		95
66) n-Nitrosodiphenylamine	10.586	169	738410	46.602	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	259160	47.518	ng		98
68) Hexachlorobenzene	11.022	284	284470	46.377	ng		98
69) Atrazine	11.110	200	237987	55.446	ng		100
70) Pentachlorophenol	11.216	266	306185	82.249	ng		99
71) Phenanthrene	11.439	178	1108145	44.313	ng		100
72) Anthracene	11.492	178	1130666	46.341	ng		100
73) Carbazole	11.639	167	939513	41.403	ng		99
74) Di-n-butylphthalate	11.975	149	1231382	46.970	ng		100
75) Fluoranthene	12.627	202	990260	39.171	ng		99
77) Benzidine	12.745	184	289331	65.765	ng		99
78) Pyrene	12.857	202	962093	41.081	ng		100
80) Butylbenzylphthalate	13.474	149	367843	52.390	ng		97
81) Benzo(a)anthracene	14.039	228	813331	46.698	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	179744	35.396	ng		98
83) Chrysene	14.080	228	708241	44.351	ng		100
84) Bis(2-ethylhexyl)phtha...	14.033	149	473241	60.075	ng	#	98
85) Di-n-octyl phthalate	14.645	149	805035	56.185	ng		96
87) Indeno(1,2,3-cd)pyrene	17.033	276	1056164	45.512	ng		98
88) Benzo(b)fluoranthene	15.098	252	879161	40.010	ng		99
89) Benzo(k)fluoranthene	15.127	252	865105	45.651	ng		99
90) Benzo(a)pyrene	15.468	252	868929	48.058	ng		99
91) Dibenzo(a,h)anthracene	17.051	278	877416	45.323	ng		98
92) Benzo(g,h,i)perylene	17.480	276	759976	39.301	ng		98

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140004.D
Acq On : 24 Oct 2024 16:48
Operator : RC/JU
Sample : P4467-01MS
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1MS

Quant Time: Oct 24 17:21:13 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140005.D
Acq On : 24 Oct 2024 17:17
Operator : RC/JU
Sample : P4467-01MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1MSD

Quant Time: Oct 24 17:45:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.893	152	131947	20.000	ng	0.00
21) Naphthalene-d8	8.175	136	501368	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	271082	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	450738	20.000	ng	0.00
76) Chrysene-d12	14.051	240	233244	20.000	ng	0.00
86) Perylene-d12	15.527	264	308426	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	799674	94.877	ng	0.01
7) Phenol-d6	6.510	99	1012285	92.732	ng	0.00
23) Nitrobenzene-d5	7.451	82	638656	70.600	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	279554	110.251	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1119419	68.247	ng	0.00
79) Terphenyl-d14	12.992	244	929562	64.941	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.740	88	170681	43.433	ng	95
3) Pyridine	3.499	79	437331	44.897	ng	95
4) n-Nitrosodimethylamine	3.452	42	231921	44.315	ng	95
6) Aniline	6.551	93	449056	44.139	ng	98
8) 2-Chlorophenol	6.675	128	437510	50.776	ng	96
9) Benzaldehyde	6.440	77	94660	15.414	ng	98
10) Phenol	6.528	94	544689m	48.399	ng	
11) bis(2-Chloroethyl)ether	6.622	93	426841	49.070	ng	99
12) 1,3-Dichlorobenzene	6.834	146	474358	47.959	ng	98
13) 1,4-Dichlorobenzene	6.910	146	484574	49.037	ng	98
14) 1,2-Dichlorobenzene	7.057	146	465650	50.490	ng	98
15) Benzyl Alcohol	7.028	79	401147	50.096	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	694463	46.821	ng	97
17) 2-Methylphenol	7.134	107	363394	49.460	ng	100
18) Hexachloroethane	7.404	117	171917	48.787	ng	95
19) n-Nitroso-di-n-propyla...	7.298	70	316676	47.831	ng	98
20) 3+4-Methylphenols	7.287	107	451943	48.091	ng	95
22) Acetophenone	7.298	105	598941	48.773	ng	97
24) Nitrobenzene	7.469	77	476377	48.031	ng	98
25) Isophorone	7.710	82	872334	50.807	ng	99
26) 2-Nitrophenol	7.787	139	229681	61.385	ng	95
27) 2,4-Dimethylphenol	7.822	122	361571	57.953	ng	100
28) bis(2-Chloroethoxy)met...	7.916	93	518995	49.892	ng	99
29) 2,4-Dichlorophenol	8.022	162	361564	50.879	ng	99
30) 1,2,4-Trichlorobenzene	8.110	180	385361	49.007	ng	99
31) Naphthalene	8.193	128	1262514	48.826	ng	99
32) Benzoic acid	7.928	122	258670	47.536	ng	96
33) 4-Chloroaniline	8.234	127	155580	17.645	ng	100
34) Hexachlorobutadiene	8.310	225	248809	50.360	ng	99
35) Caprolactam	8.610	113	113194m	50.095	ng	
36) 4-Chloro-3-methylphenol	8.716	107	397485	50.514	ng	99
37) 2-Methylnaphthalene	8.887	142	796790	50.314	ng	100
38) 1-Methylnaphthalene	8.987	142	747926	48.138	ng	99
40) 1,2,4,5-Tetrachloroben...	9.051	216	382027	52.237	ng	99
41) Hexachlorocyclopentadiene	9.040	237	462690	181.825	ng	98
43) 2,4,6-Trichlorophenol	9.157	196	280594	54.192	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140005.D
Acq On : 24 Oct 2024 17:17
Operator : RC/JU
Sample : P4467-01MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1MSD

Quant Time: Oct 24 17:45:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

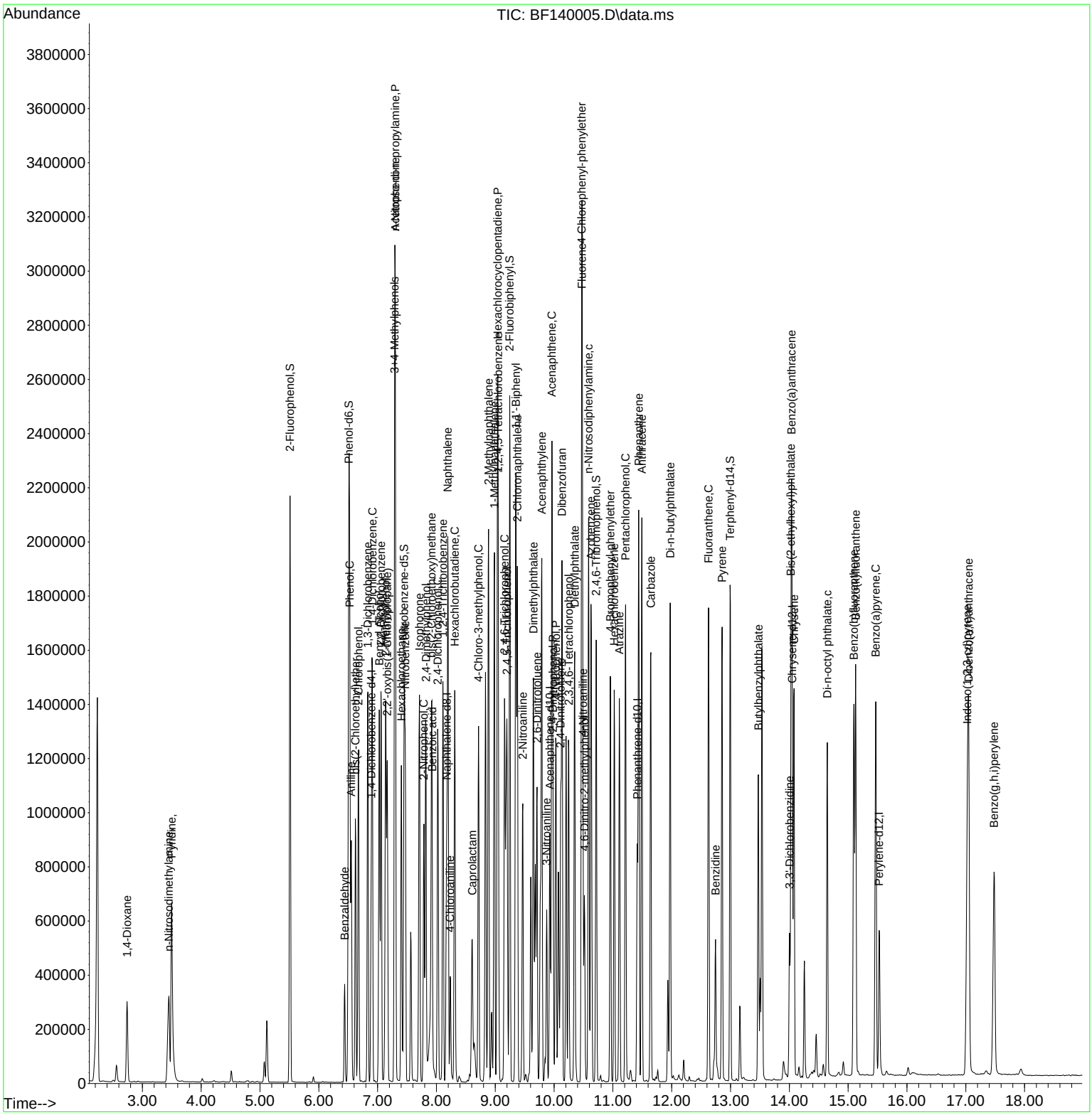
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	276809	51.817	ng		99
46) 1,1'-Biphenyl	9.351	154	961569	50.954	ng		99
47) 2-Chloronaphthalene	9.375	162	765331	50.353	ng		99
48) 2-Nitroaniline	9.469	65	256691	55.219	ng		91
49) Acenaphthylene	9.792	152	1191031	54.203	ng		99
50) Dimethylphthalate	9.651	163	891137	52.777	ng		100
51) 2,6-Dinitrotoluene	9.710	165	194168	53.110	ng		94
52) Acenaphthene	9.963	154	791591	55.689	ng		99
53) 3-Nitroaniline	9.875	138	128233	34.012	ng		95
54) 2,4-Dinitrophenol	9.981	184	170043	109.339	ng	#	1
55) Dibenzofuran	10.134	168	1038826	50.937	ng		99
56) 4-Nitrophenol	10.034	139	300808	103.705	ng		97
57) 2,4-Dinitrotoluene	10.110	165	256418	57.034	ng		98
58) Fluorene	10.475	166	786374	50.624	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	223414	53.349	ng		97
60) Diethylphthalate	10.351	149	856016	51.633	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	405285	51.665	ng		97
62) 4-Nitroaniline	10.492	138	186131	52.272	ng		95
63) Azobenzene	10.628	77	949473	54.021	ng		96
65) 4,6-Dinitro-2-methylph...	10.516	198	123475	67.159	ng		94
66) n-Nitrosodiphenylamine	10.586	169	725635	53.789	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	258439	55.657	ng		97
68) Hexachlorobenzene	11.022	284	281314	53.868	ng		97
69) Atrazine	11.110	200	239754	65.607	ng		99
70) Pentachlorophenol	11.216	266	299684	94.554	ng		99
71) Phenanthrene	11.439	178	1105042	51.902	ng		100
72) Anthracene	11.492	178	1124220	54.119	ng		99
73) Carbazole	11.645	167	927677	48.017	ng		99
74) Di-n-butylphthalate	11.975	149	1227353	54.987	ng		100
75) Fluoranthene	12.628	202	986151	45.817	ng		99
77) Benzidine	12.745	184	285122	74.341	ng		99
78) Pyrene	12.857	202	962523	47.144	ng		100
80) Butylbenzylphthalate	13.475	149	372387	60.838	ng		97
81) Benzo(a)anthracene	14.039	228	810278	53.366	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	165178	37.312	ng		100
83) Chrysene	14.080	228	705708	50.692	ng		100
84) Bis(2-ethylhexyl)phtha...	14.027	149	475991	69.312	ng		100
85) Di-n-octyl phthalate	14.645	149	805210	64.464	ng		96
87) Indeno(1,2,3-cd)pyrene	17.027	276	1044523	52.642	ng		98
88) Benzo(b)fluoranthene	15.098	252	880827	46.882	ng		100
89) Benzo(k)fluoranthene	15.127	252	864790	53.372	ng		99
90) Benzo(a)pyrene	15.468	252	864313	55.909	ng		99
91) Dibenzo(a,h)anthracene	17.051	278	866590	52.354	ng		98
92) Benzo(g,h,i)perylene	17.480	276	745658	45.099	ng		99

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102424\
Data File : BF140005.D
Acq On : 24 Oct 2024 17:17
Operator : RC/JU
Sample : P4467-01MSD
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
TP-1MSD

Quant Time: Oct 24 17:45:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration



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Manual Integration Report

Sequence:	BF101824	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICCC040	BF139848.D	Phenol	yogesh	10/21/2024 6:33:45 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC050	BF139849.D	Phenol	yogesh	10/21/2024 6:33:46 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC060	BF139850.D	Phenol	yogesh	10/21/2024 6:33:47 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICC080	BF139851.D	Aniline	yogesh	10/21/2024 6:33:49 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software
SSTDICV040	BF139852.D	Phenol	yogesh	10/21/2024 6:33:50 AM	mohammad	10/21/2024 6:38:35 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BF102424	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF139990.D	Phenol	yogesh	10/25/2024 6:26:47 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software
PB164312BS	BF139992.D	Caprolactam	yogesh	10/25/2024 6:26:50 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software
PB164312BS	BF139992.D	Phenol	yogesh	10/25/2024 6:26:50 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software
SSTDCCC040	BF140001.D	Phenol	yogesh	10/25/2024 6:27:19 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software
P4467-01MS	BF140004.D	Caprolactam	yogesh	10/25/2024 6:27:24 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software
P4467-01MS	BF140004.D	Phenol	yogesh	10/25/2024 6:27:24 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software
P4467-01MSD	BF140005.D	Caprolactam	yogesh	10/25/2024 6:27:28 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software
P4467-01MSD	BF140005.D	Phenol	yogesh	10/25/2024 6:27:28 AM	mohammad	10/25/2024 8:37:24 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BF102624	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140050.D	Phenol	yogesh	10/29/2024 1:34:09 AM	mohammad	10/29/2024 1:38:32 AM	Peak Integrated by Software

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM				
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM				
SubDirectory	BF101824	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF139843.D	18 Oct 2024 09:22	RC/JU	Ok
2	SSTDICC2.5	BF139844.D	18 Oct 2024 10:27	RC/JU	Ok
3	SSTDICC005	BF139845.D	18 Oct 2024 10:55	RC/JU	Ok
4	SSTDICC010	BF139846.D	18 Oct 2024 11:23	RC/JU	Ok
5	SSTDICC020	BF139847.D	18 Oct 2024 11:52	RC/JU	Ok
6	SSTDICCC040	BF139848.D	18 Oct 2024 12:20	RC/JU	Ok,M
7	SSTDICC050	BF139849.D	18 Oct 2024 12:49	RC/JU	Ok,M
8	SSTDICC060	BF139850.D	18 Oct 2024 13:17	RC/JU	Ok,M
9	SSTDICC080	BF139851.D	18 Oct 2024 13:46	RC/JU	Ok,M
10	SSTDICV040	BF139852.D	18 Oct 2024 14:19	RC/JU	Ok,M
11	PB164211BL	BF139853.D	18 Oct 2024 14:48	RC/JU	Ok
12	P4405-01	BF139854.D	18 Oct 2024 15:21	RC/JU	Ok
13	P4431-01	BF139855.D	18 Oct 2024 15:50	RC/JU	Ok,M
14	P4421-01	BF139856.D	18 Oct 2024 16:18	RC/JU	Ok,M
15	P4422-01	BF139857.D	18 Oct 2024 16:46	RC/JU	Ok
16	P4425-01	BF139858.D	18 Oct 2024 17:15	RC/JU	Ok
17	P4425-03	BF139859.D	18 Oct 2024 17:44	RC/JU	Ok
18	P4425-05	BF139860.D	18 Oct 2024 18:12	RC/JU	Ok
19	P4425-07	BF139861.D	18 Oct 2024 18:41	RC/JU	ReRun
20	P4425-09	BF139862.D	18 Oct 2024 19:09	RC/JU	ReRun
21	P4426-03	BF139863.D	18 Oct 2024 19:37	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4426-07	BF139864.D	18 Oct 2024 20:05	RC/JU	ReRun
23	P4426-17	BF139865.D	18 Oct 2024 20:34	RC/JU	ReRun
24	P4426-11	BF139866.D	18 Oct 2024 21:02	RC/JU	ReRun

M : Manual Integration

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 # BF102424

Review By	yogesh	Review On	10/25/2024 6:28:05 AM				
Supervise By	mohammad	Supervise On	10/25/2024 8:37:24 AM				
SubDirectory	BF102424	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF139989.D	24 Oct 2024 09:26	RC/JU	Ok
2	SSTDCCC040	BF139990.D	24 Oct 2024 09:55	RC/JU	Ok,M
3	PB164312BL	BF139991.D	24 Oct 2024 10:23	RC/JU	Ok
4	PB164312BS	BF139992.D	24 Oct 2024 10:52	RC/JU	Ok,M
5	PB164315BL	BF139993.D	24 Oct 2024 11:20	RC/JU	Ok
6	PB164315BS	BF139994.D	24 Oct 2024 11:49	RC/JU	Ok,M
7	PB164301TB	BF139995.D	24 Oct 2024 12:17	RC/JU	Ok
8	PB163997BS	BF139996.D	24 Oct 2024 12:53	RC/JU	Ok,M
9	PB164208BS	BF139997.D	24 Oct 2024 13:21	RC/JU	Ok,M
10	PB164338BL	BF139998.D	24 Oct 2024 13:50	RC/JU	Ok
11	PB164338BS	BF139999.D	24 Oct 2024 14:19	RC/JU	Ok,M
12	DFTPP	BF140000.D	24 Oct 2024 14:47	RC/JU	Ok
13	SSTDCCC040	BF140001.D	24 Oct 2024 15:16	RC/JU	Ok,M
14	PB164261TB	BF140002.D	24 Oct 2024 15:44	RC/JU	Ok
15	P4489-01DL	BF140003.D	24 Oct 2024 16:19	RC/JU	Ok
16	P4467-01MS	BF140004.D	24 Oct 2024 16:48	RC/JU	Ok,M
17	P4467-01MSD	BF140005.D	24 Oct 2024 17:17	RC/JU	Ok,M
18	P4460-03MS	BF140006.D	24 Oct 2024 17:45	RC/JU	Ok,M
19	P4460-03MSD	BF140007.D	24 Oct 2024 18:14	RC/JU	Ok,M
20	P4467-04	BF140008.D	24 Oct 2024 18:42	RC/JU	Ok
21	P4472-08	BF140009.D	24 Oct 2024 19:11	RC/JU	Ok

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102424

Review By	yogesh	Review On	10/25/2024 6:28:05 AM		
Supervise By	mohammad	Supervise On	10/25/2024 8:37:24 AM		
SubDirectory	BF102424	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4460-03	BF140010.D	24 Oct 2024 19:39	RC/JU	ReRun
23	P4471-01	BF140011.D	24 Oct 2024 20:08	RC/JU	Ok
24	P4471-02	BF140012.D	24 Oct 2024 20:36	RC/JU	ReRun
25	P4467-01	BF140013.D	24 Oct 2024 21:04	RC/JU	ReRun
26	P4460-04	BF140014.D	24 Oct 2024 21:33	RC/JU	ReRun
27	P4468-01	BF140015.D	24 Oct 2024 22:01	RC/JU	ReRun
28	P4485-01	BF140016.D	24 Oct 2024 22:29	RC/JU	ReRun
29	P4487-01	BF140017.D	24 Oct 2024 22:58	RC/JU	ReRun
30	P4487-05	BF140018.D	24 Oct 2024 23:26	RC/JU	Ok
31	P4487-05MS	BF140019.D	24 Oct 2024 23:54	RC/JU	Ok,M
32	P4487-05MSD	BF140020.D	25 Oct 2024 00:22	RC/JU	Ok,M
33	P4485-02	BF140021.D	25 Oct 2024 00:50	RC/JU	ReRun
34	P4512-03	BF140022.D	25 Oct 2024 01:19	RC/JU	ReRun
35	P4470-01	BF140023.D	25 Oct 2024 01:46	RC/JU	Ok
36	P4472-05	BF140024.D	25 Oct 2024 02:14	RC/JU	ReRun

M : Manual Integration

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 # BF102624

Review By	yogesh	Review On	10/29/2024 1:34:36 AM				
Supervise By	mohammad	Supervise On	10/29/2024 1:38:32 AM				
SubDirectory	BF102624	HP Acquire Method	BNA_F		HP Processing Method	bf101824	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140049.D	26 Oct 2024 10:10	RC/JU	Ok
2	SSTDCCC040	BF140050.D	26 Oct 2024 10:38	RC/JU	Ok,M
3	PB164401BL	BF140051.D	26 Oct 2024 11:06	RC/JU	Ok
4	PB164401BS	BF140052.D	26 Oct 2024 11:34	RC/JU	Ok,M
5	P4508-09	BF140053.D	26 Oct 2024 12:06	RC/JU	Ok
6	P4508-09MS	BF140054.D	26 Oct 2024 12:34	RC/JU	Ok,M
7	P4508-09MSD	BF140055.D	26 Oct 2024 13:02	RC/JU	Ok,M
8	P4547-05	BF140056.D	26 Oct 2024 13:30	RC/JU	Ok
9	P4547-05MS	BF140057.D	26 Oct 2024 13:58	RC/JU	Ok,M
10	P4547-05MSD	BF140058.D	26 Oct 2024 14:27	RC/JU	Ok,M
11	P4508-05	BF140059.D	26 Oct 2024 14:55	RC/JU	Ok
12	P4517-07	BF140060.D	26 Oct 2024 15:23	RC/JU	Ok
13	P4487-08	BF140061.D	26 Oct 2024 15:51	RC/JU	Ok
14	P4460-04	BF140062.D	26 Oct 2024 16:20	RC/JU	Ok
15	P4460-03	BF140063.D	26 Oct 2024 16:48	RC/JU	Ok
16	P4471-02	BF140064.D	26 Oct 2024 17:16	RC/JU	Ok
17	P4508-12	BF140065.D	26 Oct 2024 17:44	RC/JU	Ok
18	P4508-04	BF140066.D	26 Oct 2024 18:12	RC/JU	Ok
19	P4508-08	BF140067.D	26 Oct 2024 18:40	RC/JU	Ok
20	P4460-02	BF140068.D	26 Oct 2024 19:09	RC/JU	Ok,M
21	P4547-01	BF140069.D	26 Oct 2024 19:37	RC/JU	Ok

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102624

Review By	yogesh	Review On	10/29/2024 1:34:36 AM		
Supervise By	mohammad	Supervise On	10/29/2024 1:38:32 AM		
SubDirectory	BF102624	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4508-01	BF140070.D	26 Oct 2024 20:05	RC/JU	Ok
23	P4545-01	BF140071.D	26 Oct 2024 20:33	RC/JU	Ok,M
24	P4509-01	BF140072.D	26 Oct 2024 21:01	RC/JU	Ok,M
25	P4531-01	BF140073.D	26 Oct 2024 21:29	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM				
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM				
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824		

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/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	BF139843.D	18 Oct 2024 09:22		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF139844.D	18 Oct 2024 10:27		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF139845.D	18 Oct 2024 10:55	Compound #9,32,54,65,85 removed from 5 ppm	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF139846.D	18 Oct 2024 11:23		RC/JU	Ok
5	SSTDICC020	SSTDICC020	BF139847.D	18 Oct 2024 11:52	Compound #54 Kept on LR	RC/JU	Ok
6	SSTDICCC040	SSTDICCC040	BF139848.D	18 Oct 2024 12:20	The Calibration is Good For 8270 DOD Except com#77 and good for 625.1 Method	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BF139849.D	18 Oct 2024 12:49	Com#77(Benzidine) Failed in the calibration for both DOD and NON-DOD	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BF139850.D	18 Oct 2024 13:17		RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BF139851.D	18 Oct 2024 13:46		RC/JU	Ok,M
10	SSTDICV040	SSTDICV040	BF139852.D	18 Oct 2024 14:19		RC/JU	Ok,M
11	PB164211BL	PB164211BL	BF139853.D	18 Oct 2024 14:48		RC/JU	Ok
12	P4405-01	MH-121	BF139854.D	18 Oct 2024 15:21		RC/JU	Ok
13	P4431-01	72-11934	BF139855.D	18 Oct 2024 15:50		RC/JU	Ok,M
14	P4421-01	EO-02-101624	BF139856.D	18 Oct 2024 16:18		RC/JU	Ok,M
15	P4422-01	EO-01-101624	BF139857.D	18 Oct 2024 16:46		RC/JU	Ok
16	P4425-01	TP-1	BF139858.D	18 Oct 2024 17:15		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF101824

Review By	yogesh	Review On	10/21/2024 6:34:01 AM		
Supervise By	mohammad	Supervise On	10/21/2024 6:38:35 AM		
SubDirectory	BF101824	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12322,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

17	P4425-03	TP-2	BF139859.D	18 Oct 2024 17:44		RC/JU	Ok
18	P4425-05	TP-3	BF139860.D	18 Oct 2024 18:12		RC/JU	Ok
19	P4425-07	TP-4	BF139861.D	18 Oct 2024 18:41	Internal Standrad Fail	RC/JU	ReRun
20	P4425-09	TP-5	BF139862.D	18 Oct 2024 19:09	Internal Standrad Fail	RC/JU	ReRun
21	P4426-03	PAD-2	BF139863.D	18 Oct 2024 19:37	Internal Standrad Fail	RC/JU	ReRun
22	P4426-07	PAD-4	BF139864.D	18 Oct 2024 20:05	Internal Standrad Fail	RC/JU	ReRun
23	P4426-17	PAD-9	BF139865.D	18 Oct 2024 20:34	Internal Standard Fail	RC/JU	ReRun
24	P4426-11	PAD-6	BF139866.D	18 Oct 2024 21:02	Internal Standard Fail	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102424

Review By	yogesh	Review On	10/25/2024 6:28:05 AM		
Supervise By	mohammad	Supervise On	10/25/2024 8:37:24 AM		
SubDirectory	BF102424	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/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	BF139989.D	24 Oct 2024 09:26		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF139990.D	24 Oct 2024 09:55		RC/JU	Ok,M
3	PB164312BL	PB164312BL	BF139991.D	24 Oct 2024 10:23		RC/JU	Ok
4	PB164312BS	PB164312BS	BF139992.D	24 Oct 2024 10:52		RC/JU	Ok,M
5	PB164315BL	PB164315BL	BF139993.D	24 Oct 2024 11:20		RC/JU	Ok
6	PB164315BS	PB164315BS	BF139994.D	24 Oct 2024 11:49		RC/JU	Ok,M
7	PB164301TB	PB164301TB	BF139995.D	24 Oct 2024 12:17		RC/JU	Ok
8	PB163997BS	PB163997BS	BF139996.D	24 Oct 2024 12:53		RC/JU	Ok,M
9	PB164208BS	PB164208BS	BF139997.D	24 Oct 2024 13:21		RC/JU	Ok,M
10	PB164338BL	PB164338BL	BF139998.D	24 Oct 2024 13:50		RC/JU	Ok
11	PB164338BS	PB164338BS	BF139999.D	24 Oct 2024 14:19		RC/JU	Ok,M
12	DFTPP	DFTPP	BF140000.D	24 Oct 2024 14:47		RC/JU	Ok
13	SSTDCCC040	SSTDCCC040	BF140001.D	24 Oct 2024 15:16		RC/JU	Ok,M
14	PB164261TB	PB164261TB	BF140002.D	24 Oct 2024 15:44		RC/JU	Ok
15	P4489-01DL	RT-2675DL	BF140003.D	24 Oct 2024 16:19	Internal Standard Fail	RC/JU	Ok
16	P4467-01MS	TP-1MS	BF140004.D	24 Oct 2024 16:48		RC/JU	Ok,M
17	P4467-01MSD	TP-1MSD	BF140005.D	24 Oct 2024 17:17		RC/JU	Ok,M
18	P4460-03MS	WB-303-BOTMS	BF140006.D	24 Oct 2024 17:45		RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102424

Review By	yogesh	Review On	10/25/2024 6:28:05 AM		
Supervise By	mohammad	Supervise On	10/25/2024 8:37:24 AM		
SubDirectory	BF102424	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4460-03MSD	WB-303-BOTMSD	BF140007.D	24 Oct 2024 18:14		RC/JU	Ok,M
20	P4467-04	TP-1	BF140008.D	24 Oct 2024 18:42		RC/JU	Ok
21	P4472-08	BP-F-6	BF140009.D	24 Oct 2024 19:11		RC/JU	Ok
22	P4460-03	WB-303-BOT	BF140010.D	24 Oct 2024 19:39	Internal Standrad Fail	RC/JU	ReRun
23	P4471-01	B-180-SB01	BF140011.D	24 Oct 2024 20:08		RC/JU	Ok
24	P4471-02	B-180-SB02	BF140012.D	24 Oct 2024 20:36	Internal Standrad Fail	RC/JU	ReRun
25	P4467-01	TP-1	BF140013.D	24 Oct 2024 21:04	Internal Standrad Fail	RC/JU	ReRun
26	P4460-04	WB-303-BOT	BF140014.D	24 Oct 2024 21:33	Internal Standrad Fail	RC/JU	ReRun
27	P4468-01	ETGI-331	BF140015.D	24 Oct 2024 22:01	Internal Standrad Fail	RC/JU	ReRun
28	P4485-01	D20241001-01-04	BF140016.D	24 Oct 2024 22:29	Internal Standrad Fail	RC/JU	ReRun
29	P4487-01	BP-B5	BF140017.D	24 Oct 2024 22:58	Internal Standrad Fail	RC/JU	ReRun
30	P4487-05	BP-F27	BF140018.D	24 Oct 2024 23:26	Internal Standrad Fail	RC/JU	Ok
31	P4487-05MS	BP-F27MS	BF140019.D	24 Oct 2024 23:54	Internal Standrad Fail	RC/JU	Ok,M
32	P4487-05MSD	BP-F27MSD	BF140020.D	25 Oct 2024 00:22	Internal Standrad Fail	RC/JU	Ok,M
33	P4485-02	D20241001-01-04	BF140021.D	25 Oct 2024 00:50	Internal Standrad Fail	RC/JU	ReRun
34	P4512-03	VNJ-212	BF140022.D	25 Oct 2024 01:19	Internal Standrad Fail	RC/JU	ReRun
35	P4470-01	CL-01-102124	BF140023.D	25 Oct 2024 01:46		RC/JU	Ok
36	P4472-05	BP-F-6	BF140024.D	25 Oct 2024 02:14	Internal Standrad Fail	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102624

Review By	yogesh	Review On	10/29/2024 1:34:36 AM		
Supervise By	mohammad	Supervise On	10/29/2024 1:38:32 AM		
SubDirectory	BF102624	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/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	BF140049.D	26 Oct 2024 10:10		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140050.D	26 Oct 2024 10:38		RC/JU	Ok,M
3	PB164401BL	PB164401BL	BF140051.D	26 Oct 2024 11:06		RC/JU	Ok
4	PB164401BS	PB164401BS	BF140052.D	26 Oct 2024 11:34		RC/JU	Ok,M
5	P4508-09	BP-F22	BF140053.D	26 Oct 2024 12:06		RC/JU	Ok
6	P4508-09MS	BP-F22MS	BF140054.D	26 Oct 2024 12:34		RC/JU	Ok,M
7	P4508-09MSD	BP-F22MSD	BF140055.D	26 Oct 2024 13:02		RC/JU	Ok,M
8	P4547-05	BP-F-20	BF140056.D	26 Oct 2024 13:30		RC/JU	Ok
9	P4547-05MS	BP-F-20MS	BF140057.D	26 Oct 2024 13:58		RC/JU	Ok,M
10	P4547-05MSD	BP-F-20MSD	BF140058.D	26 Oct 2024 14:27		RC/JU	Ok,M
11	P4508-05	BP-F23	BF140059.D	26 Oct 2024 14:55		RC/JU	Ok
12	P4517-07	FOREST-ST-CO	BF140060.D	26 Oct 2024 15:23		RC/JU	Ok
13	P4487-08	BP-B27	BF140061.D	26 Oct 2024 15:51		RC/JU	Ok
14	P4460-04	WB-303-BOT	BF140062.D	26 Oct 2024 16:20		RC/JU	Ok
15	P4460-03	WB-303-BOT	BF140063.D	26 Oct 2024 16:48		RC/JU	Ok
16	P4471-02	B-180-SB02	BF140064.D	26 Oct 2024 17:16		RC/JU	Ok
17	P4508-12	BP-F22	BF140065.D	26 Oct 2024 17:44		RC/JU	Ok
18	P4508-04	TP-3	BF140066.D	26 Oct 2024 18:12		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102624

Review By	yogesh	Review On	10/29/2024 1:34:36 AM		
Supervise By	mohammad	Supervise On	10/29/2024 1:38:32 AM		
SubDirectory	BF102624	HP Acquire Method	BNA_F	HP Processing Method	bf101824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12323,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4508-08	BP-F23	BF140067.D	26 Oct 2024 18:40		RC/JU	Ok
20	P4460-02	WB-303-TOP	BF140068.D	26 Oct 2024 19:09		RC/JU	Ok,M
21	P4547-01	BP-F-21	BF140069.D	26 Oct 2024 19:37		RC/JU	Ok
22	P4508-01	TP-3	BF140070.D	26 Oct 2024 20:05		RC/JU	Ok
23	P4545-01	VNJ-215	BF140071.D	26 Oct 2024 20:33		RC/JU	Ok,M
24	P4509-01	AU-06-10232024	BF140072.D	26 Oct 2024 21:01		RC/JU	Ok,M
25	P4531-01	OR-03-102424	BF140073.D	26 Oct 2024 21:29		RC/JU	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164312

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	10/22/2024
Matrix :	Solid			**Extraction Start Time :**	10:44
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	10/22/2024
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	13:55
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**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	EP2538
Baked Na2SO4	N/A	EP2551
Sand	N/A	E2865
Methylene Chloride	N/A	E3817
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	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/22/24	RP (Ext. Lab)	AC/SVOC
14:00	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164312

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 10/22/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164312BL	SBLK312	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			U5-1
PB164312BS	SLCS312	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1			2
P4467-01	TP-1	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	E		3
P4467-01MS	TP-1MS	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	E		4
P4467-01MSD	TP-1MSD	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	E		5
P4468-01	ETGI-331	SVOC-PAH	50.09	N/A	ritesh	Evelyn	1		Concrete	6
P4468-03	ETGI-329	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E		U6-1
P4468-05	ETGI-345	SVOC-TCL BNA -20	50.10	N/A	ritesh	Evelyn	1	E		2
P4470-01	CL-01-102124	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	E		3
P4471-01	B-180-SB01	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		4
P4471-02	B-180-SB02	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		5
P4472-01	BP-F-28	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		6
P4472-05	BP-F-6	SVOC-TCL BNA -20	50.08	N/A	ritesh	Evelyn	1	E		U1-1
P4473-01	TS-1	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	C		2
P4474-01	TS-2	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	B		3

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

10/22/24

164312
10:44

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4470 **WorkList ID :** 184651 **Department :** Extraction **Date :** 10-22-2024 08:24:48

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4467-01	TP-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K41	10/21/2024	8270E
P4468-01	ETGI-331	Solid	SVOC-PAH	Cool 4 deg C	PSEG03	K51	10/21/2024	8270E
P4468-03	ETGI-329	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K51	10/21/2024	8270E
P4468-05	ETGI-345	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K51	10/21/2024	8270E
P4470-01	CL-01-102124	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K51	10/21/2024	8270E
P4471-01	B-180-SB01	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	K51	10/21/2024	8270E
P4471-02	B-180-SB02	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	J61	10/19/2024	8270E
P4472-01	BP-F-28	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	J61	10/20/2024	8270E
P4472-05	BP-F-6	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K51	10/21/2024	8270E
P4473-01	TS-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K51	10/21/2024	8270E
P4474-01	TS-2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	YANN01	K61	10/18/2024	8270E
P4474-01	TS-2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	YANN01	K61	10/18/2024	8270E

Date/Time 10/22/24 10:40
Raw Sample Received by: RJ (Colby)
Raw Sample Relinquished by:

Date/Time 10/22/24 1105
Raw Sample Received by:
Raw Sample Relinquished by: RJ (Ent) 1632

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

LAB CHRONICLE

OrderID:	P4471	**OrderDate:**	10/21/2024 1:01:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	J61,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4471-01	**B-180-SB01**	**SOIL**			**10/19/24**			**10/21/24**
			SVOC-TCL BNA -20	8270E		10/22/24	10/24/24	
P4471-02	**B-180-SB02**	**SOIL**			**10/20/24**			**10/21/24**
			SVOC-TCL BNA -20	8270E		10/22/24	10/26/24	