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

Hit Summary Sheet
SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Sample ID	Client ID		Parameter		Concentration	C	MDL	RDL	Units
Client ID : WB-305-SW									
P4578-01	WB-305-SW	WATER	9-Tricosene, (Z)-	*	5.800	J	0	0	ug/L
P4578-01	WB-305-SW	WATER	Benzophenone	*	7.300	J	0	0	ug/L
P4578-01	WB-305-SW	WATER	Butane, 2-methoxy-2-methyl-	*	87.000	J	0	0	ug/L
P4578-01	WB-305-SW	WATER	n-Hexadecanoic acid	*	9.000	J	0	0	ug/L
P4578-01	WB-305-SW	WATER	Octadecanoic acid	*	3.600	J	0	0	ug/L
			Total Tics :		**112.70**				
			Total Concentration:		**112.70**				
Client ID : WB-305-SW-1									
P4578-02	WB-305-SW-1	WATER	Benzophenone	*	7.300	J	0	0	ug/L
P4578-02	WB-305-SW-1	WATER	Butane, 2-methoxy-2-methyl-	*	110.000	J	0	0	ug/L
			Total Tics :		**117.30**				
			Total Concentration:		**117.30**				
Client ID : WB-305-TOP									
P4578-03	WB-305-TOP	SOIL	Naphthalene		210.000	J	150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	2-Methylnaphthalene		190.000	J	150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Acenaphthene		190.000	J	150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Fluorene		160.000	J	160	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Phenanthrene		640.000		160	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Anthracene		270.000	J	160	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Fluoranthene		610.000		150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Pyrene		850.000		150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo(a)anthracene		550.000		150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Chrysene		580.000		150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo(b)fluoranthene		400.000		150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo(k)fluoranthene		160.000	J	150	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo(a)pyrene		530.000		170	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Indeno(1,2,3-cd)pyrene		180.000	J	140	320	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo(g,h,i)perylene		230.000	J	150	320	ug/Kg
			Total Svoc :		**5,750.00**				
P4578-03	WB-305-TOP	SOIL	11H-Benzo[a]fluorene	*	220.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	11H-Benzo[b]fluorene	*	320.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Anthracene, 2-methyl-	*	230.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzene, 2-ethenyl-1,4-dimethyl-	*	240.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	5-Bromo-2-thiophenecarboxaldeh	*	670.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzo[e]pyrene	*	250.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Benzophenone	*	600.000	J	0	0	ug/Kg

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Hit Summary Sheet
SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
P4578-03	WB-305-TOP	SOIL	Butane, 2-methoxy-2-methyl-	*	3,200.000	JB	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Naphthalene, 2,3-dimethyl-	*	230.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	n-Hexadecanoic acid	*	540.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	o-Cymene	*	260.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Pyrene, 1-methyl-	*	170.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Silane, trichlorooctadecyl-	*	280.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Sulfurous acid, 2-ethylhexyl hexyl	*	180.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	unknown12.510	*	180.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	unknown17.380	*	420.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	unknown18.345	*	270.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Hexadecane	*	230.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Phenanthrene, 2,5-dimethyl-	*	200.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	Phenanthrene, 2-methyl-	*	190.000	J	0	0	ug/Kg
P4578-03	WB-305-TOP	SOIL	1-Methylnaphthalene	*	210.000	J	150	320	ug/Kg
			Total Tics :		**9,090.00**				
			Total Concentration:		**14,840.00**				
Client ID :	**WB-305-TOP-1**								
P4578-04	WB-305-TOP-1	SOIL	Phenanthrene		200.000	J	140	290	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Fluoranthene		180.000	J	140	290	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Pyrene		190.000	J	140	290	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Benzo(a)anthracene		140.000	J	140	290	ug/Kg
			Total Svoc :		**710.00**				
P4578-04	WB-305-TOP-1	SOIL	Benzaldehyde, 3,5-dichloro-2-hyd	*	200.000	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Benzo[e]pyrene	*	140.000	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Benzophenone	*	540.000	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Butane, 2-methoxy-2-methyl-	*	2,600.000	JB	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Tricosyl trifluoroacetate	*	180.000	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	n-Hexadecanoic acid	*	430.000	J	0	0	ug/Kg
P4578-04	WB-305-TOP-1	SOIL	Pentanedioic acid, dimethyl ester	*	120.000	J	0	0	ug/Kg
			Total Tics :		**4,210.00**				
			Total Concentration:		**4,920.00**				
Client ID :	**WB-305-BOT**								
P4578-05	WB-305-BOT	SOIL	Benzophenone	*	540.000	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	Butane, 2-methoxy-2-methyl-	*	2,200.000	JB	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	Heptafluorobutyric acid, hexadecy	*	240.000	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	n-Hexadecanoic acid	*	340.000	J	0	0	ug/Kg
P4578-05	WB-305-BOT	SOIL	Pentanedioic acid, dimethyl ester	*	83.200	J	0	0	ug/Kg
			Total Tics :		**3,403.20**				
			Total Concentration:		**3,403.20**				

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Hit Summary Sheet
SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**WB-305-BOT-1**								
P4578-07	WB-305-BOT-1	SOIL	Benzophenone	*	390.000	J	0	0	ug/Kg
P4578-07	WB-305-BOT-1	SOIL	Butane, 2-methoxy-2-methyl-	*	1,900.000	JB	0	0	ug/Kg
P4578-07	WB-305-BOT-1	SOIL	n-Hexadecanoic acid	*	280.000	J	0	0	ug/Kg
P4578-07	WB-305-BOT-1	SOIL	Octacosyl trifluoroacetate	*	220.000	J	0	0	ug/Kg
P4578-07	WB-305-BOT-1	SOIL	Pentanedioic acid, dimethyl ester	*	78.200	J	0	0	ug/Kg
			Total Tics :		**2,868.20**				
			Total Concentration:		**2,868.20**				

SAMPLE DATA

Raw Data: **BF140193.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:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140193.D	1	10/30/24 08:50	10/31/24 17:01	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.10	U	4.10	10.2	ug/L
108-95-2	Phenol	0.95	U	0.95	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.10	ug/L
95-57-8	2-Chlorophenol	0.72	U	0.72	5.10	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.10	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.10	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.10	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.10	ug/L
78-59-1	Isophorone	1.20	U	1.20	5.10	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.10	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.10	ug/L
120-83-2	2,4-Dichlorophenol	0.90	U	0.90	5.10	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.10	ug/L
106-47-8	4-Chloroaniline	1.30	UQ	1.30	5.10	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.10	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	0.86	U	0.86	5.10	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	5.10	UQ	5.10	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	0.91	U	0.91	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.10	ug/L
92-52-4	1,1-Biphenyl	0.93	U	0.93	5.10	ug/L
91-58-7	2-Chloronaphthalene	0.99	U	0.99	5.10	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.10	ug/L
131-11-3	Dimethylphthalate	0.95	U	0.95	5.10	ug/L

Raw Data: **BF140193.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140193.D	1	10/30/24 08:50	10/31/24 17:01	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.10	U	1.10	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	1.30	U	1.30	5.10	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.10	ug/L
83-32-9	Acenaphthene	0.83	U	0.83	5.10	ug/L
51-28-5	2,4-Dinitrophenol	6.60	U	6.60	10.2	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.2	ug/L
132-64-9	Dibenzofuran	0.95	U	0.95	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	5.10	ug/L
84-66-2	Diethylphthalate	1.10	U	1.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	1.00	5.10	ug/L
86-73-7	Fluorene	0.98	U	0.98	5.10	ug/L
100-01-6	4-Nitroaniline	2.10	U	2.10	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	0.91	U	0.91	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	0.97	U	0.97	5.10	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.10	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.10	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.2	ug/L
85-01-8	Phenanthrene	0.91	U	0.91	5.10	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.10	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.10	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.10	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.10	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.10	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.2	ug/L
56-55-3	Benzo(a)anthracene	0.96	U	0.96	5.10	ug/L
218-01-9	Chrysene	0.88	U	0.88	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.10	ug/L
117-84-0	Di-n-octyl phthalate	2.60	U	2.60	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.10	ug/L

Raw Data: **BF140193.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140193.D	1	10/30/24 08:50	10/31/24 17:01	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.10	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.10	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.81	U	0.81	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	13.7	*	15 (10) - 110 (139)	9%	SPK: 150
13127-88-3	Phenol-d6	12.7	*	15 (10) - 110 (134)	8%	SPK: 150
4165-60-0	Nitrobenzene-d5	17.0	*	30 (49) - 130 (133)	17%	SPK: 100
321-60-8	2-Fluorobiphenyl	18.7	*	30 (52) - 130 (132)	19%	SPK: 100
118-79-6	2,4,6-Tribromophenol	30.3		15 (44) - 110 (137)	20%	SPK: 150
1718-51-0	Terphenyl-d14	23.4	*	30 (48) - 130 (125)	23%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	185000	6.886			
1146-65-2	Naphthalene-d8	677000	8.163			
15067-26-2	Acenaphthene-d10	335000	9.927			
1517-22-2	Phenanthrene-d10	528000	11.416			
1719-03-5	Chrysene-d12	331000	14.068			
1520-96-3	Perylene-d12	264000	15.574			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	87.0	J		2.15	ug/L
000119-61-9	Benzophenone	7.30	J		10.6	ug/L
000057-10-3	n-Hexadecanoic acid	9.00	J		11.9	ug/L
000057-11-4	Octadecanoic acid	3.60	J		12.7	ug/L
027519-02-4	9-Tricosene, (Z)-	5.80	J		13.9	ug/L

Raw Data: **BF140193.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW	SDG No.:	P4578
Lab Sample ID:	P4578-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140193.D	1	10/30/24 08:50	10/31/24 17:01	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SWRE	SDG No.:	P4578
Lab Sample ID:	P4578-01RE	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140206.D	1	10/30/24 08:50	11/01/24 12:07	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.10	U	4.10	10.2	ug/L
108-95-2	Phenol	0.95	U	0.95	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.10	ug/L
95-57-8	2-Chlorophenol	0.72	U	0.72	5.10	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.10	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.10	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.10	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.10	ug/L
78-59-1	Isophorone	1.20	U	1.20	5.10	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.10	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.10	ug/L
120-83-2	2,4-Dichlorophenol	0.90	U	0.90	5.10	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.10	ug/L
106-47-8	4-Chloroaniline	1.30	UQ	1.30	5.10	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.10	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	0.86	U	0.86	5.10	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	5.10	UQ	5.10	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	0.91	U	0.91	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.10	ug/L
92-52-4	1,1-Biphenyl	0.93	U	0.93	5.10	ug/L
91-58-7	2-Chloronaphthalene	0.99	U	0.99	5.10	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.10	ug/L
131-11-3	Dimethylphthalate	0.95	U	0.95	5.10	ug/L

Raw Data: **BF140206.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:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SWRE	SDG No.:	P4578
Lab Sample ID:	P4578-01RE	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140206.D	1	10/30/24 08:50	11/01/24 12:07	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.10	U	1.10	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	1.30	U	1.30	5.10	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.10	ug/L
83-32-9	Acenaphthene	0.83	U	0.83	5.10	ug/L
51-28-5	2,4-Dinitrophenol	6.60	U	6.60	10.2	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.2	ug/L
132-64-9	Dibenzofuran	0.95	U	0.95	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	5.10	ug/L
84-66-2	Diethylphthalate	1.10	U	1.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	1.00	5.10	ug/L
86-73-7	Fluorene	0.98	U	0.98	5.10	ug/L
100-01-6	4-Nitroaniline	2.10	U	2.10	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	0.91	U	0.91	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	0.97	U	0.97	5.10	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.10	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.10	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.2	ug/L
85-01-8	Phenanthrene	0.91	U	0.91	5.10	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.10	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.10	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.10	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.10	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.10	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.2	ug/L
56-55-3	Benzo(a)anthracene	0.96	U	0.96	5.10	ug/L
218-01-9	Chrysene	0.88	U	0.88	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.10	ug/L
117-84-0	Di-n-octyl phthalate	2.60	U	2.60	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.10	ug/L

Raw Data: **BF140206.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:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SWRE	SDG No.:	P4578
Lab Sample ID:	P4578-01RE	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140206.D	1	10/30/24 08:50	11/01/24 12:07	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.10	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.10	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.81	U	0.81	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	14.1	*	15 (10) - 110 (139)	9%	SPK: 150
13127-88-3	Phenol-d6	13.2	*	15 (10) - 110 (134)	9%	SPK: 150
4165-60-0	Nitrobenzene-d5	17.3	*	30 (49) - 130 (133)	17%	SPK: 100
321-60-8	2-Fluorobiphenyl	17.1	*	30 (52) - 130 (132)	17%	SPK: 100
118-79-6	2,4,6-Tribromophenol	34.0		15 (44) - 110 (137)	23%	SPK: 150
1718-51-0	Terphenyl-d14	23.9	*	30 (48) - 130 (125)	24%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	222000	6.881			
1146-65-2	Naphthalene-d8	875000	8.163			
15067-26-2	Acenaphthene-d10	497000	9.922			
1517-22-2	Phenanthrene-d10	893000	11.416			
1719-03-5	Chrysene-d12	536000	14.068			
1520-96-3	Perylene-d12	445000	15.574			

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: **BE101433.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:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101433.D	1	10/30/24 08:50	10/31/24 15:14	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.10	U	4.10	10.2	ug/L
108-95-2	Phenol	0.95	U	0.95	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.10	ug/L
95-57-8	2-Chlorophenol	0.72	U	0.72	5.10	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.10	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.10	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.10	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.10	ug/L
78-59-1	Isophorone	1.20	U	1.20	5.10	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.10	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.10	ug/L
120-83-2	2,4-Dichlorophenol	0.90	U	0.90	5.10	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.10	ug/L
106-47-8	4-Chloroaniline	1.30	UQ	1.30	5.10	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.10	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	0.86	U	0.86	5.10	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	5.10	UQ	5.10	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	0.91	U	0.91	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.10	ug/L
92-52-4	1,1-Biphenyl	0.93	U	0.93	5.10	ug/L
91-58-7	2-Chloronaphthalene	0.99	U	0.99	5.10	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.10	ug/L
131-11-3	Dimethylphthalate	0.95	U	0.95	5.10	ug/L

Raw Data: **BE101433.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:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101433.D	1	10/30/24 08:50	10/31/24 15:14	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.10	U	1.10	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	1.30	U	1.30	5.10	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.10	ug/L
83-32-9	Acenaphthene	0.83	U	0.83	5.10	ug/L
51-28-5	2,4-Dinitrophenol	6.60	U	6.60	10.2	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.2	ug/L
132-64-9	Dibenzofuran	0.95	U	0.95	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	5.10	ug/L
84-66-2	Diethylphthalate	1.10	U	1.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	1.00	5.10	ug/L
86-73-7	Fluorene	0.98	U	0.98	5.10	ug/L
100-01-6	4-Nitroaniline	2.10	U	2.10	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	0.91	U	0.91	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	0.97	U	0.97	5.10	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.10	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.10	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.2	ug/L
85-01-8	Phenanthrene	0.91	U	0.91	5.10	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.10	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.10	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.10	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.10	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.10	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.2	ug/L
56-55-3	Benzo(a)anthracene	0.96	U	0.96	5.10	ug/L
218-01-9	Chrysene	0.88	U	0.88	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.10	ug/L
117-84-0	Di-n-octyl phthalate	2.60	U	2.60	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.10	ug/L

Raw Data: **BE101433.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:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101433.D	1	10/30/24 08:50	10/31/24 15:14	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.10	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.10	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.81	U	0.81	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	22.4		15 (10) - 110 (139)	30%	SPK: 75
13127-88-3	Phenol-d6	18.1		15 (10) - 110 (134)	24%	SPK: 75
4165-60-0	Nitrobenzene-d5	21.6		30 (49) - 130 (133)	43%	SPK: 50
321-60-8	2-Fluorobiphenyl	22.9		30 (52) - 130 (132)	46%	SPK: 50
118-79-6	2,4,6-Tribromophenol	43.4		15 (44) - 110 (137)	58%	SPK: 75
1718-51-0	Terphenyl-d14	26.5		30 (48) - 130 (125)	53%	SPK: 50
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	150000	7.571			
1146-65-2	Naphthalene-d8	662000	10.338			
15067-26-2	Acenaphthene-d10	470000	14.175			
1517-22-2	Phenanthrene-d10	1210000	16.913			
1719-03-5	Chrysene-d12	1600000	21.072			
1520-96-3	Perylene-d12	2060000	23.364			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	110	J		2.87	ug/L
000119-61-9	Benzophenone	7.30	J		15.5	ug/L

Raw Data: **BE101433.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:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1	SDG No.:	P4578
Lab Sample ID:	P4578-02	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101433.D	1	10/30/24 08:50	10/31/24 15:14	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Raw Data: **BF140207.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:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1RE	SDG No.:	P4578
Lab Sample ID:	P4578-02RE	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140207.D	1	10/30/24 08:50	11/01/24 12:33	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.10	U	4.10	10.2	ug/L
108-95-2	Phenol	0.95	U	0.95	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.10	ug/L
95-57-8	2-Chlorophenol	0.72	U	0.72	5.10	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.10	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.10	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.10	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.10	ug/L
78-59-1	Isophorone	1.20	U	1.20	5.10	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.10	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.10	ug/L
120-83-2	2,4-Dichlorophenol	0.90	U	0.90	5.10	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.10	ug/L
106-47-8	4-Chloroaniline	1.30	UQ	1.30	5.10	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.10	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	0.86	U	0.86	5.10	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	5.10	UQ	5.10	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	0.91	U	0.91	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.10	ug/L
92-52-4	1,1-Biphenyl	0.93	U	0.93	5.10	ug/L
91-58-7	2-Chloronaphthalene	0.99	U	0.99	5.10	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.10	ug/L
131-11-3	Dimethylphthalate	0.95	U	0.95	5.10	ug/L

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1RE	SDG No.:	P4578
Lab Sample ID:	P4578-02RE	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140207.D	1	10/30/24 08:50	11/01/24 12:33	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	1.10	U	1.10	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	1.30	U	1.30	5.10	ug/L
99-09-2	3-Nitroaniline	1.40	U	1.40	5.10	ug/L
83-32-9	Acenaphthene	0.83	U	0.83	5.10	ug/L
51-28-5	2,4-Dinitrophenol	6.60	U	6.60	10.2	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.2	ug/L
132-64-9	Dibenzofuran	0.95	U	0.95	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	5.10	ug/L
84-66-2	Diethylphthalate	1.10	U	1.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	1.00	5.10	ug/L
86-73-7	Fluorene	0.98	U	0.98	5.10	ug/L
100-01-6	4-Nitroaniline	2.10	U	2.10	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	0.91	U	0.91	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	0.97	U	0.97	5.10	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.10	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.10	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.2	ug/L
85-01-8	Phenanthrene	0.91	U	0.91	5.10	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.10	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.10	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.10	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.10	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.10	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.2	ug/L
56-55-3	Benzo(a)anthracene	0.96	U	0.96	5.10	ug/L
218-01-9	Chrysene	0.88	U	0.88	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.10	ug/L
117-84-0	Di-n-octyl phthalate	2.60	U	2.60	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.10	ug/L

Raw Data: **BF140207.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-SW-1RE	SDG No.:	P4578
Lab Sample ID:	P4578-02RE	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	490 Units: mL	Final Vol:	500 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140207.D	1	10/30/24 08:50	11/01/24 12:33	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.10	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.10	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.10	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.81	U	0.81	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	20.4	*	15 (10) - 110 (139)	14%	SPK: 150
13127-88-3	Phenol-d6	17.7	*	15 (10) - 110 (134)	12%	SPK: 150
4165-60-0	Nitrobenzene-d5	24.2	*	30 (49) - 130 (133)	24%	SPK: 100
321-60-8	2-Fluorobiphenyl	23.2	*	30 (52) - 130 (132)	23%	SPK: 100
118-79-6	2,4,6-Tribromophenol	41.6		15 (44) - 110 (137)	28%	SPK: 150
1718-51-0	Terphenyl-d14	27.1	*	30 (48) - 130 (125)	27%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	187000	6.881			
1146-65-2	Naphthalene-d8	733000	8.163			
15067-26-2	Acenaphthene-d10	416000	9.922			
1517-22-2	Phenanthrene-d10	750000	11.416			
1719-03-5	Chrysene-d12	460000	14.068			
1520-96-3	Perylene-d12	382000	15.58			

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: **BF140156.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	53.8
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
BF140156.D	1	10/28/24 09:00	10/30/24 14:41	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	340	U	340	610	ug/Kg
108-95-2	Phenol	150	U	150	320	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	160	U	160	320	ug/Kg
95-57-8	2-Chlorophenol	150	U	150	320	ug/Kg
95-48-7	2-Methylphenol	150	U	150	320	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	170	U	170	320	ug/Kg
98-86-2	Acetophenone	160	U	160	320	ug/Kg
65794-96-9	3+4-Methylphenols	150	U	150	610	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	74.8	U	74.8	150	ug/Kg
67-72-1	Hexachloroethane	150	U	150	320	ug/Kg
98-95-3	Nitrobenzene	170	U	170	320	ug/Kg
78-59-1	Isophorone	160	U	160	320	ug/Kg
88-75-5	2-Nitrophenol	180	U	180	320	ug/Kg
105-67-9	2,4-Dimethylphenol	170	U	170	320	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	160	U	160	320	ug/Kg
120-83-2	2,4-Dichlorophenol	140	U	140	320	ug/Kg
91-20-3	Naphthalene	210	J	150	320	ug/Kg
106-47-8	4-Chloroaniline	150	UQ	150	320	ug/Kg
87-68-3	Hexachlorobutadiene	150	U	150	320	ug/Kg
105-60-2	Caprolactam	160	U	160	610	ug/Kg
59-50-7	4-Chloro-3-methylphenol	140	U	140	320	ug/Kg
91-57-6	2-Methylnaphthalene	190	J	150	320	ug/Kg
77-47-4	Hexachlorocyclopentadiene	290	UQ	290	610	ug/Kg
88-06-2	2,4,6-Trichlorophenol	130	U	130	320	ug/Kg
95-95-4	2,4,5-Trichlorophenol	140	U	140	320	ug/Kg
92-52-4	1,1-Biphenyl	160	U	160	320	ug/Kg
91-58-7	2-Chloronaphthalene	150	U	150	320	ug/Kg
88-74-4	2-Nitroaniline	180	U	180	320	ug/Kg
131-11-3	Dimethylphthalate	150	U	150	320	ug/Kg

Raw Data: **BF140156.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	53.8
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
BF140156.D	1	10/28/24 09:00	10/30/24 14:41	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	160	U	160	320	ug/Kg
606-20-2	2,6-Dinitrotoluene	150	U	150	320	ug/Kg
99-09-2	3-Nitroaniline	170	UQ	170	320	ug/Kg
83-32-9	Acenaphthene	190	J	150	320	ug/Kg
51-28-5	2,4-Dinitrophenol	450	U	450	610	ug/Kg
100-02-7	4-Nitrophenol	220	U	220	610	ug/Kg
132-64-9	Dibenzofuran	160	U	160	320	ug/Kg
121-14-2	2,4-Dinitrotoluene	160	U	160	320	ug/Kg
84-66-2	Diethylphthalate	150	U	150	320	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	160	U	160	320	ug/Kg
86-73-7	Fluorene	160	J	160	320	ug/Kg
100-01-6	4-Nitroaniline	200	U	200	320	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	220	U	220	610	ug/Kg
86-30-6	n-Nitrosodiphenylamine	150	U	150	320	ug/Kg
101-55-3	4-Bromophenyl-phenylether	150	U	150	320	ug/Kg
118-74-1	Hexachlorobenzene	160	U	160	320	ug/Kg
1912-24-9	Atrazine	170	U	170	320	ug/Kg
87-86-5	Pentachlorophenol	140	U	140	610	ug/Kg
85-01-8	Phenanthrene	640		160	320	ug/Kg
120-12-7	Anthracene	270	J	160	320	ug/Kg
86-74-8	Carbazole	150	U	150	320	ug/Kg
84-74-2	Di-n-butylphthalate	160	U	160	320	ug/Kg
206-44-0	Fluoranthene	610		150	320	ug/Kg
129-00-0	Pyrene	850		150	320	ug/Kg
85-68-7	Butylbenzylphthalate	180	U	180	320	ug/Kg
91-94-1	3,3-Dichlorobenzidine	180	UQ	180	610	ug/Kg
56-55-3	Benzo(a)anthracene	550		150	320	ug/Kg
218-01-9	Chrysene	580		150	320	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	170	U	170	320	ug/Kg
117-84-0	Di-n-octyl phthalate	200	U	200	610	ug/Kg
205-99-2	Benzo(b)fluoranthene	400		150	320	ug/Kg

Raw Data: **BF140156.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	53.8
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
BF140156.D	1	10/28/24 09:00	10/30/24 14:41	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	160	J	150	320	ug/Kg
50-32-8	Benzo(a)pyrene	530		170	320	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	180	J	140	320	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	150	U	150	320	ug/Kg
191-24-2	Benzo(g,h,i)perylene	230	J	150	320	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	160	U	160	320	ug/Kg
123-91-1	1,4-Dioxane	200	U	200	320	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	140	U	140	320	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	80.3		30 (18) - 130 (112)	54%	SPK: 150
13127-88-3	Phenol-d6	78.7		30 (15) - 130 (107)	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	62.2		30 (18) - 130 (107)	62%	SPK: 100
321-60-8	2-Fluorobiphenyl	58.2		30 (20) - 130 (109)	58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	78.7		30 (10) - 130 (116)	52%	SPK: 150
1718-51-0	Terphenyl-d14	60.6		30 (10) - 130 (105)	61%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	111000	6.881			
1146-65-2	Naphthalene-d8	423000	8.163			
15067-26-2	Acenaphthene-d10	224000	9.922			
1517-22-2	Phenanthrene-d10	363000	11.416			
1719-03-5	Chrysene-d12	172000	14.069			
1520-96-3	Perylene-d12	221000	15.58			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	3200	JB		2.18	ug/Kg
000527-84-4	o-Cymene	260	J		7.67	ug/Kg
002039-89-6	Benzene, 2-ethenyl-1,4-dimethyl-	240	J		7.90	ug/Kg
000544-76-3	Hexadecane	230	J		8.75	ug/Kg
90-12-0	1-Methylnaphthalene	210	J		8.97	ug/Kg
000112-04-9	Silane, trichlorooctadecyl-	280	J		9.32	ug/Kg
000581-40-8	Naphthalene, 2,3-dimethyl-	230	J		9.57	ug/Kg

Raw Data: **BF140156.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP	SDG No.:	P4578
Lab Sample ID:	P4578-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	53.8
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
BF140156.D	1	10/28/24 09:00	10/30/24 14:41	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
1000309-20-2	Sulfurous acid, 2-ethylhexyl hexyl	180	J		9.85	ug/Kg
000119-61-9	Benzophenone	600	J		10.6	ug/Kg
000613-12-7	Anthracene, 2-methyl-	230	J		11.9	ug/Kg
000057-10-3	n-Hexadecanoic acid	540	J		11.9	ug/Kg
002531-84-2	Phenanthrene, 2-methyl-	190	J		12.0	ug/Kg
004701-17-1	5-Bromo-2-thiophenecarboxaldehyde	670	J		12.0	ug/Kg
003674-66-6	Phenanthrene, 2,5-dimethyl-	200	J		12.5	ug/Kg
	unknown12.510	180	J		12.5	ug/Kg
002381-21-7	Pyrene, 1-methyl-	170	J		13.1	ug/Kg
000243-17-4	11H-Benzo[b]fluorene	320	J		13.2	ug/Kg
000238-84-6	11H-Benzo[a]fluorene	220	J		13.3	ug/Kg
000192-97-2	Benzo[e]pyrene	250	J		15.5	ug/Kg
	unknown17.380	420	J		17.4	ug/Kg
	unknown18.345	270	J		18.3	ug/Kg

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

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

Raw Data: **BF140125.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	58.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140125.D	1	10/28/24 09:00	10/29/24 21:13	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	310	U	310	560	ug/Kg
108-95-2	Phenol	140	U	140	290	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	140	U	140	290	ug/Kg
95-57-8	2-Chlorophenol	140	U	140	290	ug/Kg
95-48-7	2-Methylphenol	140	U	140	290	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	150	U	150	290	ug/Kg
98-86-2	Acetophenone	150	U	150	290	ug/Kg
65794-96-9	3+4-Methylphenols	140	U	140	560	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	68.5	U	68.5	140	ug/Kg
67-72-1	Hexachloroethane	140	U	140	290	ug/Kg
98-95-3	Nitrobenzene	150	U	150	290	ug/Kg
78-59-1	Isophorone	140	U	140	290	ug/Kg
88-75-5	2-Nitrophenol	160	U	160	290	ug/Kg
105-67-9	2,4-Dimethylphenol	160	U	160	290	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	150	U	150	290	ug/Kg
120-83-2	2,4-Dichlorophenol	130	U	130	290	ug/Kg
91-20-3	Naphthalene	140	U	140	290	ug/Kg
106-47-8	4-Chloroaniline	140	UQ	140	290	ug/Kg
87-68-3	Hexachlorobutadiene	140	U	140	290	ug/Kg
105-60-2	Caprolactam	150	U	150	560	ug/Kg
59-50-7	4-Chloro-3-methylphenol	130	U	130	290	ug/Kg
91-57-6	2-Methylnaphthalene	140	U	140	290	ug/Kg
77-47-4	Hexachlorocyclopentadiene	270	UQ	270	560	ug/Kg
88-06-2	2,4,6-Trichlorophenol	120	U	120	290	ug/Kg
95-95-4	2,4,5-Trichlorophenol	130	U	130	290	ug/Kg
92-52-4	1,1-Biphenyl	150	U	150	290	ug/Kg
91-58-7	2-Chloronaphthalene	140	U	140	290	ug/Kg
88-74-4	2-Nitroaniline	160	U	160	290	ug/Kg
131-11-3	Dimethylphthalate	140	U	140	290	ug/Kg

Raw Data: **BF140125.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:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	58.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140125.D	1	10/28/24 09:00	10/29/24 21:13	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	150	U	150	290	ug/Kg
606-20-2	2,6-Dinitrotoluene	140	U	140	290	ug/Kg
99-09-2	3-Nitroaniline	150	UQ	150	290	ug/Kg
83-32-9	Acenaphthene	140	U	140	290	ug/Kg
51-28-5	2,4-Dinitrophenol	410	U	410	560	ug/Kg
100-02-7	4-Nitrophenol	200	U	200	560	ug/Kg
132-64-9	Dibenzofuran	140	U	140	290	ug/Kg
121-14-2	2,4-Dinitrotoluene	150	U	150	290	ug/Kg
84-66-2	Diethylphthalate	140	U	140	290	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	150	U	150	290	ug/Kg
86-73-7	Fluorene	150	U	150	290	ug/Kg
100-01-6	4-Nitroaniline	180	U	180	290	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	200	U	200	560	ug/Kg
86-30-6	n-Nitrosodiphenylamine	140	U	140	290	ug/Kg
101-55-3	4-Bromophenyl-phenylether	130	U	130	290	ug/Kg
118-74-1	Hexachlorobenzene	140	U	140	290	ug/Kg
1912-24-9	Atrazine	160	U	160	290	ug/Kg
87-86-5	Pentachlorophenol	130	U	130	560	ug/Kg
85-01-8	Phenanthrene	200	J	140	290	ug/Kg
120-12-7	Anthracene	140	U	140	290	ug/Kg
86-74-8	Carbazole	140	U	140	290	ug/Kg
84-74-2	Di-n-butylphthalate	140	U	140	290	ug/Kg
206-44-0	Fluoranthene	180	J	140	290	ug/Kg
129-00-0	Pyrene	190	J	140	290	ug/Kg
85-68-7	Butylbenzylphthalate	160	U	160	290	ug/Kg
91-94-1	3,3-Dichlorobenzidine	170	UQ	170	560	ug/Kg
56-55-3	Benzo(a)anthracene	140	J	140	290	ug/Kg
218-01-9	Chrysene	140	U	140	290	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	150	U	150	290	ug/Kg
117-84-0	Di-n-octyl phthalate	190	U	190	560	ug/Kg
205-99-2	Benzo(b)fluoranthene	140	U	140	290	ug/Kg

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	58.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140125.D	1	10/28/24 09:00	10/29/24 21:13	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	140	U	140	290	ug/Kg
50-32-8	Benzo(a)pyrene	160	U	160	290	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	130	U	130	290	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	140	U	140	290	ug/Kg
191-24-2	Benzo(g,h,i)perylene	140	U	140	290	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	150	U	150	290	ug/Kg
123-91-1	1,4-Dioxane	190	U	190	290	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	130	U	130	290	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	78.6		30 (18) - 130 (112)	52%	SPK: 150
13127-88-3	Phenol-d6	77.4		30 (15) - 130 (107)	52%	SPK: 150
4165-60-0	Nitrobenzene-d5	58.7		30 (18) - 130 (107)	59%	SPK: 100
321-60-8	2-Fluorobiphenyl	59.3		30 (20) - 130 (109)	59%	SPK: 100
118-79-6	2,4,6-Tribromophenol	63.6		30 (10) - 130 (116)	42%	SPK: 150
1718-51-0	Terphenyl-d14	42.4		30 (10) - 130 (105)	42%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	122000	6.887			
1146-65-2	Naphthalene-d8	474000	8.169			
15067-26-2	Acenaphthene-d10	241000	9.922			
1517-22-2	Phenanthrene-d10	346000	11.41			
1719-03-5	Chrysene-d12	236000	14.051			
1520-96-3	Perylene-d12	245000	15.545			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	2600	JB		2.19	ug/Kg
001119-40-0	Pentanedioic acid, dimethyl ester	120	J		7.70	ug/Kg
000119-61-9	Benzophenone	540	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	430	J		11.9	ug/Kg
000090-60-8	Benzaldehyde, 3,5-dichloro-2-hydro	200	J		12.0	ug/Kg
1000351-75-1	Tricosyl trifluoroacetate	180	J		13.9	ug/Kg
000192-97-2	Benzo[e]pyrene	140	J		15.1	ug/Kg

Raw Data: **BF140125.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-TOP-1	SDG No.:	P4578
Lab Sample ID:	P4578-04	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	58.7
Sample Wt/Vol:	30.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140125.D	1	10/28/24 09:00	10/29/24 21:13	PB164461

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: **BF140110.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.1
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
BF140110.D	1	10/28/24 09:00	10/29/24 14:16	PB164461

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	100	U	100	210	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	100	U	100	210	ug/Kg
95-57-8	2-Chlorophenol	100	U	100	210	ug/Kg
95-48-7	2-Methylphenol	98.1	U	98.1	210	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	110	U	110	210	ug/Kg
98-86-2	Acetophenone	110	U	110	210	ug/Kg
65794-96-9	3+4-Methylphenols	97.1	U	97.1	400	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	49.1	U	49.1	97.4	ug/Kg
67-72-1	Hexachloroethane	100	U	100	210	ug/Kg
98-95-3	Nitrobenzene	110	U	110	210	ug/Kg
78-59-1	Isophorone	100	U	100	210	ug/Kg
88-75-5	2-Nitrophenol	120	U	120	210	ug/Kg
105-67-9	2,4-Dimethylphenol	110	U	110	210	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	100	U	100	210	ug/Kg
120-83-2	2,4-Dichlorophenol	91.9	U	91.9	210	ug/Kg
91-20-3	Naphthalene	100	U	100	210	ug/Kg
106-47-8	4-Chloroaniline	100	UQ	100	210	ug/Kg
87-68-3	Hexachlorobutadiene	100	U	100	210	ug/Kg
105-60-2	Caprolactam	110	U	110	400	ug/Kg
59-50-7	4-Chloro-3-methylphenol	94.3	U	94.3	210	ug/Kg
91-57-6	2-Methylnaphthalene	100	U	100	210	ug/Kg
77-47-4	Hexachlorocyclopentadiene	190	UQ	190	400	ug/Kg
88-06-2	2,4,6-Trichlorophenol	86.9	U	86.9	210	ug/Kg
95-95-4	2,4,5-Trichlorophenol	90.1	U	90.1	210	ug/Kg
92-52-4	1,1-Biphenyl	110	U	110	210	ug/Kg
91-58-7	2-Chloronaphthalene	100	U	100	210	ug/Kg
88-74-4	2-Nitroaniline	120	U	120	210	ug/Kg
131-11-3	Dimethylphthalate	99.4	U	99.4	210	ug/Kg

Raw Data: **BF140110.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.1
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
BF140110.D	1	10/28/24 09:00	10/29/24 14:16	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	110	U	110	210	ug/Kg
606-20-2	2,6-Dinitrotoluene	100	U	100	210	ug/Kg
99-09-2	3-Nitroaniline	110	UQ	110	210	ug/Kg
83-32-9	Acenaphthene	98.7	U	98.7	210	ug/Kg
51-28-5	2,4-Dinitrophenol	300	U	300	400	ug/Kg
100-02-7	4-Nitrophenol	140	U	140	400	ug/Kg
132-64-9	Dibenzofuran	100	U	100	210	ug/Kg
121-14-2	2,4-Dinitrotoluene	100	U	100	210	ug/Kg
84-66-2	Diethylphthalate	97.5	U	97.5	210	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	100	U	100	210	ug/Kg
86-73-7	Fluorene	100	U	100	210	ug/Kg
100-01-6	4-Nitroaniline	130	U	130	210	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	140	U	140	400	ug/Kg
86-30-6	n-Nitrosodiphenylamine	99.3	U	99.3	210	ug/Kg
101-55-3	4-Bromophenyl-phenylether	96.0	U	96.0	210	ug/Kg
118-74-1	Hexachlorobenzene	100	U	100	210	ug/Kg
1912-24-9	Atrazine	110	U	110	210	ug/Kg
87-86-5	Pentachlorophenol	94.1	U	94.1	400	ug/Kg
85-01-8	Phenanthrene	100	U	100	210	ug/Kg
120-12-7	Anthracene	100	U	100	210	ug/Kg
86-74-8	Carbazole	97.7	U	97.7	210	ug/Kg
84-74-2	Di-n-butylphthalate	100	U	100	210	ug/Kg
206-44-0	Fluoranthene	99.4	U	99.4	210	ug/Kg
129-00-0	Pyrene	100	U	100	210	ug/Kg
85-68-7	Butylbenzylphthalate	120	U	120	210	ug/Kg
91-94-1	3,3-Dichlorobenzidine	120	UQ	120	400	ug/Kg
56-55-3	Benzo(a)anthracene	98.2	U	98.2	210	ug/Kg
218-01-9	Chrysene	96.8	U	96.8	210	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	210	ug/Kg
117-84-0	Di-n-octyl phthalate	130	U	130	400	ug/Kg
205-99-2	Benzo(b)fluoranthene	98.7	U	98.7	210	ug/Kg

Raw Data: **BF140110.D**

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.1
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
BF140110.D	1	10/28/24 09:00	10/29/24 14:16	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	100	U	100	210	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	95.1	U	95.1	210	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	98.8	U	98.8	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	97.5	U	97.5	210	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	110	U	110	210	ug/Kg
123-91-1	1,4-Dioxane	130	U	130	210	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	90.9	U	90.9	210	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	89.9		30 (18) - 130 (112)	60%	SPK: 150
13127-88-3	Phenol-d6	88.8		30 (15) - 130 (107)	59%	SPK: 150
4165-60-0	Nitrobenzene-d5	66.2		30 (18) - 130 (107)	66%	SPK: 100
321-60-8	2-Fluorobiphenyl	66.1		30 (20) - 130 (109)	66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	102		30 (10) - 130 (116)	68%	SPK: 150
1718-51-0	Terphenyl-d14	70.9		30 (10) - 130 (105)	71%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	121000	6.887			
1146-65-2	Naphthalene-d8	473000	8.169			
15067-26-2	Acenaphthene-d10	267000	9.922			
1517-22-2	Phenanthrene-d10	461000	11.41			
1719-03-5	Chrysene-d12	225000	14.057			
1520-96-3	Perylene-d12	272000	15.551			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	2200	JB		2.20	ug/Kg
001119-40-0	Pentanedioic acid, dimethyl ester	83.2	J		7.70	ug/Kg
000119-61-9	Benzophenone	540	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	340	J		11.9	ug/Kg
006385-15-5	Heptafluorobutyric acid, hexadecyl	240	J		13.9	ug/Kg

Raw Data: **BF140110.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT	SDG No.:	P4578
Lab Sample ID:	P4578-05	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	82.1
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
BF140110.D	1	10/28/24 09:00	10/29/24 14:16	PB164461

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: **BF140111.D**

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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:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	94.4
Sample Wt/Vol:	30.08 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
BF140111.D	1	10/28/24 09:00	10/29/24 14:42	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	190	U	190	350	ug/Kg
108-95-2	Phenol	87.6	U	87.6	180	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	88.4	U	88.4	180	ug/Kg
95-57-8	2-Chlorophenol	88.2	U	88.2	180	ug/Kg
95-48-7	2-Methylphenol	85.2	U	85.2	180	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	96.0	U	96.0	180	ug/Kg
98-86-2	Acetophenone	91.8	U	91.8	180	ug/Kg
65794-96-9	3+4-Methylphenols	84.3	U	84.3	350	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	42.6	U	42.6	84.5	ug/Kg
67-72-1	Hexachloroethane	87.7	U	87.7	180	ug/Kg
98-95-3	Nitrobenzene	95.9	U	95.9	180	ug/Kg
78-59-1	Isophorone	89.4	U	89.4	180	ug/Kg
88-75-5	2-Nitrophenol	99.8	U	99.8	180	ug/Kg
105-67-9	2,4-Dimethylphenol	98.5	U	98.5	180	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	90.6	U	90.6	180	ug/Kg
120-83-2	2,4-Dichlorophenol	79.8	U	79.8	180	ug/Kg
91-20-3	Naphthalene	87.3	U	87.3	180	ug/Kg
106-47-8	4-Chloroaniline	87.3	UQ	87.3	180	ug/Kg
87-68-3	Hexachlorobutadiene	88.0	U	88.0	180	ug/Kg
105-60-2	Caprolactam	91.7	U	91.7	350	ug/Kg
59-50-7	4-Chloro-3-methylphenol	81.9	U	81.9	180	ug/Kg
91-57-6	2-Methylnaphthalene	87.2	U	87.2	180	ug/Kg
77-47-4	Hexachlorocyclopentadiene	160	UQ	160	350	ug/Kg
88-06-2	2,4,6-Trichlorophenol	75.4	U	75.4	180	ug/Kg
95-95-4	2,4,5-Trichlorophenol	78.2	U	78.2	180	ug/Kg
92-52-4	1,1-Biphenyl	92.3	U	92.3	180	ug/Kg
91-58-7	2-Chloronaphthalene	88.0	U	88.0	180	ug/Kg
88-74-4	2-Nitroaniline	100	U	100	180	ug/Kg
131-11-3	Dimethylphthalate	86.3	U	86.3	180	ug/Kg

Raw Data: **BF140111.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	94.4
Sample Wt/Vol:	30.08 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
BF140111.D	1	10/28/24 09:00	10/29/24 14:42	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	91.4	U	91.4	180	ug/Kg
606-20-2	2,6-Dinitrotoluene	87.9	U	87.9	180	ug/Kg
99-09-2	3-Nitroaniline	94.2	UQ	94.2	180	ug/Kg
83-32-9	Acenaphthene	85.7	U	85.7	180	ug/Kg
51-28-5	2,4-Dinitrophenol	260	U	260	350	ug/Kg
100-02-7	4-Nitrophenol	120	U	120	350	ug/Kg
132-64-9	Dibenzofuran	89.2	U	89.2	180	ug/Kg
121-14-2	2,4-Dinitrotoluene	91.1	U	91.1	180	ug/Kg
84-66-2	Diethylphthalate	84.6	U	84.6	180	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	90.4	U	90.4	180	ug/Kg
86-73-7	Fluorene	90.3	U	90.3	180	ug/Kg
100-01-6	4-Nitroaniline	110	U	110	180	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	120	U	120	350	ug/Kg
86-30-6	n-Nitrosodiphenylamine	86.2	U	86.2	180	ug/Kg
101-55-3	4-Bromophenyl-phenylether	83.4	U	83.4	180	ug/Kg
118-74-1	Hexachlorobenzene	89.8	U	89.8	180	ug/Kg
1912-24-9	Atrazine	96.6	U	96.6	180	ug/Kg
87-86-5	Pentachlorophenol	81.7	U	81.7	350	ug/Kg
85-01-8	Phenanthrene	88.7	U	88.7	180	ug/Kg
120-12-7	Anthracene	89.2	U	89.2	180	ug/Kg
86-74-8	Carbazole	84.8	U	84.8	180	ug/Kg
84-74-2	Di-n-butylphthalate	89.1	U	89.1	180	ug/Kg
206-44-0	Fluoranthene	86.3	U	86.3	180	ug/Kg
129-00-0	Pyrene	87.7	U	87.7	180	ug/Kg
85-68-7	Butylbenzylphthalate	100	U	100	180	ug/Kg
91-94-1	3,3-Dichlorobenzidine	100	UQ	100	350	ug/Kg
56-55-3	Benzo(a)anthracene	85.3	U	85.3	180	ug/Kg
218-01-9	Chrysene	84.0	U	84.0	180	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	96.1	U	96.1	180	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	350	ug/Kg
205-99-2	Benzo(b)fluoranthene	85.7	U	85.7	180	ug/Kg

Raw Data: **BF140111.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	94.4
Sample Wt/Vol:	30.08 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
BF140111.D	1	10/28/24 09:00	10/29/24 14:42	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	87.3	U	87.3	180	ug/Kg
50-32-8	Benzo(a)pyrene	98.3	U	98.3	180	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	82.5	U	82.5	180	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	85.8	U	85.8	180	ug/Kg
191-24-2	Benzo(g,h,i)perylene	84.6	U	84.6	180	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	91.7	U	91.7	180	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	180	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	78.9	U	78.9	180	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	82.9		30 (18) - 130 (112)	55%	SPK: 150
13127-88-3	Phenol-d6	82.6		30 (15) - 130 (107)	55%	SPK: 150
4165-60-0	Nitrobenzene-d5	60.0		30 (18) - 130 (107)	60%	SPK: 100
321-60-8	2-Fluorobiphenyl	58.1		30 (20) - 130 (109)	58%	SPK: 100
118-79-6	2,4,6-Tribromophenol	93.8		30 (10) - 130 (116)	63%	SPK: 150
1718-51-0	Terphenyl-d14	67.9		30 (10) - 130 (105)	68%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	122000	6.887			
1146-65-2	Naphthalene-d8	478000	8.169			
15067-26-2	Acenaphthene-d10	267000	9.922			
1517-22-2	Phenanthrene-d10	462000	11.41			
1719-03-5	Chrysene-d12	225000	14.057			
1520-96-3	Perylene-d12	269000	15.557			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	1900	JB		2.19	ug/Kg
001119-40-0	Pentanedioic acid, dimethyl ester	78.2	J		7.70	ug/Kg
000119-61-9	Benzophenone	390	J		10.6	ug/Kg
000057-10-3	n-Hexadecanoic acid	280	J		11.9	ug/Kg
1000351-74-9	Octacosyl trifluoroacetate	220	J		13.9	ug/Kg

Raw Data: **BF140111.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	WB-305-BOT-1	SDG No.:	P4578
Lab Sample ID:	P4578-07	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	94.4
Sample Wt/Vol:	30.08 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
BF140111.D	1	10/28/24 09:00	10/29/24 14:42	PB164461

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

QC SUMMARY

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

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4561-05MS	BP-F-18MS	2-Fluorophenol	150	87.2	58		30 (18)	130 (112)
		Phenol-d6	150	90.3	60		30 (15)	130 (107)
		Nitrobenzene-d5	100	66.8	67		30 (18)	130 (107)
		2-Fluorobiphenyl	100	65.7	66		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	104	70		30 (10)	130 (116)
		Terphenyl-d14	100	66.3	66		30 (10)	130 (105)
P4561-05MSD	BP-F-18MSD	2-Fluorophenol	150	84.4	56		30 (18)	130 (112)
		Phenol-d6	150	87.1	58		30 (15)	130 (107)
		Nitrobenzene-d5	100	66.6	67		30 (18)	130 (107)
		2-Fluorobiphenyl	100	64.8	65		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	103	69		30 (10)	130 (116)
		Terphenyl-d14	100	64.7	65		30 (10)	130 (105)
P4578-03	WB-305-TOP	2-Fluorophenol	150	80.3	54		30 (18)	130 (112)
		Phenol-d6	150	78.7	52		30 (15)	130 (107)
		Nitrobenzene-d5	100	62.2	62		30 (18)	130 (107)
		2-Fluorobiphenyl	100	58.2	58		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	78.7	52		30 (10)	130 (116)
		Terphenyl-d14	100	60.6	61		30 (10)	130 (105)
P4578-04	WB-305-TOP-1	2-Fluorophenol	150	78.6	52		30 (18)	130 (112)
		Phenol-d6	150	77.4	52		30 (15)	130 (107)
		Nitrobenzene-d5	100	58.7	59		30 (18)	130 (107)
		2-Fluorobiphenyl	100	59.3	59		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	63.6	42		30 (10)	130 (116)
		Terphenyl-d14	100	42.4	42		30 (10)	130 (105)
P4578-05	WB-305-BOT	2-Fluorophenol	150	89.9	60		30 (18)	130 (112)
		Phenol-d6	150	88.8	59		30 (15)	130 (107)
		Nitrobenzene-d5	100	66.2	66		30 (18)	130 (107)
		2-Fluorobiphenyl	100	66.1	66		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	102	68		30 (10)	130 (116)
		Terphenyl-d14	100	70.9	71		30 (10)	130 (105)
P4578-07	WB-305-BOT-1	2-Fluorophenol	150	82.9	55		30 (18)	130 (112)
		Phenol-d6	150	82.6	55		30 (15)	130 (107)
		Nitrobenzene-d5	100	60.0	60		30 (18)	130 (107)
		2-Fluorobiphenyl	100	58.1	58		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	93.8	63		30 (10)	130 (116)
		Terphenyl-d14	100	67.9	68		30 (10)	130 (105)
PB164461BL	PB164461BL	2-Fluorophenol	150	119	79		30 (18)	130 (112)
		Phenol-d6	150	116	77		30 (15)	130 (107)
		Nitrobenzene-d5	100	89.7	90		30 (18)	130 (107)
		2-Fluorobiphenyl	100	86.0	86		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	135	90		30 (10)	130 (116)
		Terphenyl-d14	100	81.7	82		30 (10)	130 (105)
PB164461BS	PB164461BS	2-Fluorophenol	150	122	81		30 (18)	130 (112)
		Phenol-d6	150	119	80		30 (15)	130 (107)
		Nitrobenzene-d5	100	92.1	92		30 (18)	130 (107)
		2-Fluorobiphenyl	100	87.6	88		30 (20)	130 (109)
		2,4,6-Tribromophenol	150	144	96		30 (10)	130 (116)
		Terphenyl-d14	100	100	100		30 (10)	130 (105)

( ) = LABORATORY INHOUSE LIMIT

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

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P4578-01	WB-305-SW	2-Fluorophenol	150	13.7	9	*	15 (10)	110 (139)
		Phenol-d6	150	12.7	8	*	15 (10)	110 (134)
		Nitrobenzene-d5	100	17.0	17	*	30 (49)	130 (133)
		2-Fluorobiphenyl	100	18.7	19	*	30 (52)	130 (132)
		2,4,6-Tribromophenol	150	30.3	20		15 (44)	110 (137)
		Terphenyl-d14	100	23.4	23	*	30 (48)	130 (125)
P4578-01RE	WB-305-SWRE	2-Fluorophenol	150	14.1	9	*	15 (10)	110 (139)
		Phenol-d6	150	13.2	9	*	15 (10)	110 (134)
		Nitrobenzene-d5	100	17.3	17	*	30 (49)	130 (133)
		2-Fluorobiphenyl	100	17.1	17	*	30 (52)	130 (132)
		2,4,6-Tribromophenol	150	34.0	23		15 (44)	110 (137)
		Terphenyl-d14	100	23.9	24	*	30 (48)	130 (125)
P4578-02	WB-305-SW-1	2-Fluorophenol	75	22.4	30		15 (10)	110 (139)
		Phenol-d6	75	18.1	24		15 (10)	110 (134)
		Nitrobenzene-d5	50	21.6	43		30 (49)	130 (133)
		2-Fluorobiphenyl	50	22.9	46		30 (52)	130 (132)
		2,4,6-Tribromophenol	75	43.4	58		15 (44)	110 (137)
		Terphenyl-d14	50	26.5	53		30 (48)	130 (125)
P4578-02RE	WB-305-SW-1RE	2-Fluorophenol	150	20.4	14	*	15 (10)	110 (139)
		Phenol-d6	150	17.7	12	*	15 (10)	110 (134)
		Nitrobenzene-d5	100	24.2	24	*	30 (49)	130 (133)
		2-Fluorobiphenyl	100	23.2	23	*	30 (52)	130 (132)
		2,4,6-Tribromophenol	150	41.6	28		15 (44)	110 (137)
		Terphenyl-d14	100	27.1	27	*	30 (48)	130 (125)
PB164533BL	PB164533BL	2-Fluorophenol	150	160	107		15 (10)	110 (139)
		Phenol-d6	150	148	99		15 (10)	110 (134)
		Nitrobenzene-d5	100	98.4	98		30 (49)	130 (133)
		2-Fluorobiphenyl	100	104	104		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	150	100		15 (44)	110 (137)
		Terphenyl-d14	100	89.9	90		30 (48)	130 (125)
PB164533BS	PB164533BS	2-Fluorophenol	150	154	102		15 (10)	110 (139)
		Phenol-d6	150	139	92		15 (10)	110 (134)
		Nitrobenzene-d5	100	91.2	91		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.5	95		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	138	92		15 (44)	110 (137)
		Terphenyl-d14	100	86.8	87		30 (48)	130 (125)
PB164533BSD	PB164533BSD	2-Fluorophenol	150	154	103		15 (10)	110 (139)
		Phenol-d6	150	140	93		15 (10)	110 (134)
		Nitrobenzene-d5	100	92.8	93		30 (49)	130 (133)
		2-Fluorobiphenyl	100	94.2	94		30 (52)	130 (132)
		2,4,6-Tribromophenol	150	139	93		15 (44)	110 (137)
		Terphenyl-d14	100	86.4	86		30 (48)	130 (125)

( ) = LABORATORY INHOUSE LIMIT

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

SW-846

SDG No.: P4578

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: P4561-05MS		**Client Sample ID: BP-F-18MS**						**DataFile: BF140105.D**			
Benzaldehyde	1200	0	290	ug/Kg	24				20 (10)	160 (86)	
Phenol	1200	0	1100	ug/Kg	92				20 (67)	160 (126)	
bis(2-Chloroethyl)ether	1200	0	1100	ug/Kg	92				70 (54)	130 (125)	
2-Chlorophenol	1200	0	1100	ug/Kg	92				70 (79)	130 (107)	
2-Methylphenol	1200	0	1100	ug/Kg	92				70 (66)	130 (122)	
2,2-oxybis(1-Chloropropane)	1200	0	1100	ug/Kg	92				70 (65)	130 (110)	
Acetophenone	1200	0	1000	ug/Kg	83				70 (75)	130 (111)	
3+4-Methylphenols	1200	0	1000	ug/Kg	83				20 (66)	160 (104)	
N-Nitroso-di-n-propylamine	1200	0	1100	ug/Kg	92				70 (59)	130 (119)	
Hexachloroethane	1200	0	1100	ug/Kg	92				20 (65)	160 (117)	
Nitrobenzene	1200	0	1000	ug/Kg	83				70 (70)	130 (119)	
Isophorone	1200	0	1100	ug/Kg	92				70 (76)	130 (122)	
2-Nitrophenol	1200	0	1300	ug/Kg	108				70 (54)	130 (145)	
2,4-Dimethylphenol	1200	0	1200	ug/Kg	100				70 (44)	130 (135)	
bis(2-Chloroethoxy)methane	1200	0	1100	ug/Kg	92				70 (68)	130 (112)	
2,4-Dichlorophenol	1200	0	1100	ug/Kg	92				70 (72)	130 (118)	
Naphthalene	1200	0	1000	ug/Kg	83				70 (72)	130 (110)	
4-Chloroaniline	1200	0	280	ug/Kg	23	*			70 (10)	130 (91)	
Hexachlorobutadiene	1200	0	1100	ug/Kg	92				70 (66)	130 (114)	
Caprolactam	1200	0	1100	ug/Kg	92				20 (51)	160 (134)	
4-Chloro-3-methylphenol	1200	0	1100	ug/Kg	92				70 (57)	130 (132)	
2-Methylnaphthalene	1200	0	1100	ug/Kg	92				70 (59)	130 (123)	
Hexachlorocyclopentadiene	2300	0	3900	ug/Kg	170	*			20 (10)	160 (175)	
2,4,6-Trichlorophenol	1200	0	1100	ug/Kg	92				70 (72)	130 (117)	
2,4,5-Trichlorophenol	1200	0	1100	ug/Kg	92				70 (72)	130 (117)	
1,1-Biphenyl	1200	0	1100	ug/Kg	92				70 (75)	130 (113)	
2-Chloronaphthalene	1200	0	1100	ug/Kg	92				70 (67)	130 (118)	
2-Nitroaniline	1200	0	1200	ug/Kg	100				70 (69)	130 (127)	
Dimethylphthalate	1200	0	1100	ug/Kg	92				70 (70)	130 (113)	
Acenaphthylene	1200	0	1100	ug/Kg	92				70 (79)	130 (118)	
2,6-Dinitrotoluene	1200	0	1100	ug/Kg	92				70 (70)	130 (125)	
3-Nitroaniline	1200	0	600	ug/Kg	50	*			70 (30)	130 (99)	
Acenaphthene	1200	0	1200	ug/Kg	100				70 (70)	130 (121)	
2,4-Dinitrophenol	2300	0	3100	ug/Kg	135				20 (10)	160 (155)	
4-Nitrophenol	2300	0	2300	ug/Kg	100				20 (45)	160 (133)	
Dibenzofuran	1200	0	1100	ug/Kg	92				70 (72)	130 (110)	
2,4-Dinitrotoluene	1200	0	1200	ug/Kg	100				70 (55)	130 (128)	
Diethylphthalate	1200	0	1100	ug/Kg	92				70 (70)	130 (112)	
4-Chlorophenyl-phenylether	1200	0	1100	ug/Kg	92				70 (71)	130 (108)	
Fluorene	1200	0	1100	ug/Kg	92				70 (68)	130 (116)	
4-Nitroaniline	1200	0	1100	ug/Kg	92				70 (55)	130 (120)	
4,6-Dinitro-2-methylphenol	1200	0	1700	ug/Kg	142	*			70 (10)	130 (160)	
N-Nitrosodiphenylamine	1200	0	1100	ug/Kg	92				70 (73)	130 (118)	
4-Bromophenyl-phenylether	1200	0	1100	ug/Kg	92				70 (65)	130 (121)	
Hexachlorobenzene	1200	0	1100	ug/Kg	92				70 (67)	130 (118)	
Atrazine	1200	0	1300	ug/Kg	108				70 (79)	130 (127)	

( ) = LABORATORY INHOUSE LIMIT

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.: P4578

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	2300	0	2200	ug/Kg	96				20 (47)	160 (128)	
Phenanthrene	1200	0	1100	ug/Kg	92				70 (52)	130 (128)	
Anthracene	1200	0	1100	ug/Kg	92				70 (62)	130 (124)	
Carbazole	1200	0	1000	ug/Kg	83				70 (59)	130 (119)	
Di-n-butylphthalate	1200	0	1100	ug/Kg	92				70 (69)	130 (118)	
Fluoranthene	1200	0	940	ug/Kg	78				70 (44)	130 (125)	
Pyrene	1200	0	1000	ug/Kg	83				70 (26)	130 (142)	
Butylbenzylphthalate	1200	0	1300	ug/Kg	108				70 (64)	130 (126)	
3,3-Dichlorobenzidine	1200	0	690	ug/Kg	58	*			70 (33)	130 (116)	
Benzo(a)anthracene	1200	0	1100	ug/Kg	92				70 (71)	130 (114)	
Chrysene	1200	0	1100	ug/Kg	92				70 (57)	130 (121)	
bis(2-Ethylhexyl)phthalate	1200	0	1500	ug/Kg	125				70 (42)	130 (169)	
Di-n-octyl phthalate	1200	0	1300	ug/Kg	108				70 (23)	130 (175)	
Benzo(b)fluoranthene	1200	0	1000	ug/Kg	83				70 (67)	130 (121)	
Benzo(k)fluoranthene	1200	0	1100	ug/Kg	92				70 (57)	130 (134)	
Benzo(a)pyrene	1200	0	1200	ug/Kg	100				70 (70)	130 (142)	
Indeno(1,2,3-cd)pyrene	1200	0	990	ug/Kg	83				70 (40)	130 (129)	
Dibenz(a,h)anthracene	1200	0	1000	ug/Kg	83				70 (43)	130 (123)	
Benzo(g,h,i)perylene	1200	0	830	ug/Kg	69	*			70 (24)	130 (125)	
1,2,4,5-Tetrachlorobenzene	1200	0	1100	ug/Kg	92				70 (69)	130 (124)	
1,4-Dioxane	1200	0	890	ug/Kg	74				20 (46)	160 (112)	
2,3,4,6-Tetrachlorophenol	1200	0	1100	ug/Kg	92				70 (69)	130 (112)	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P4578

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: P4561-05MSD		**Client Sample ID: BP-F-18MSD**						**DataFile: BF140106.D**			
Benzaldehyde	1200	0	280	ug/Kg	23		4		20 (10)	160 (86)	30 (20)
Phenol	1200	0	1100	ug/Kg	92		0		20 (67)	160 (126)	30 (20)
bis(2-Chloroethyl)ether	1200	0	1000	ug/Kg	83		10		70 (54)	130 (125)	30 (20)
2-Chlorophenol	1200	0	1100	ug/Kg	92		0		70 (79)	130 (107)	30 (20)
2-Methylphenol	1200	0	1000	ug/Kg	83		10		70 (66)	130 (122)	30 (20)
2,2-oxybis(1-Chloropropane)	1200	0	1000	ug/Kg	83		10		70 (65)	130 (110)	30 (20)
Acetophenone	1200	0	1000	ug/Kg	83		0		70 (75)	130 (111)	30 (20)
3+4-Methylphenols	1200	0	1000	ug/Kg	83		0		20 (66)	160 (104)	30 (20)
N-Nitroso-di-n-propylamine	1200	0	1000	ug/Kg	83		10		70 (59)	130 (119)	30 (20)
Hexachloroethane	1200	0	1100	ug/Kg	92		0		20 (65)	160 (117)	30 (20)
Nitrobenzene	1200	0	1000	ug/Kg	83		0		70 (70)	130 (119)	30 (20)
Isophorone	1200	0	1100	ug/Kg	92		0		70 (76)	130 (122)	30 (20)
2-Nitrophenol	1200	0	1300	ug/Kg	108		0		70 (54)	130 (145)	30 (20)
2,4-Dimethylphenol	1200	0	1200	ug/Kg	100		0		70 (44)	130 (135)	30 (20)
bis(2-Chloroethoxy)methane	1200	0	1100	ug/Kg	92		0		70 (68)	130 (112)	30 (20)
2,4-Dichlorophenol	1200	0	1100	ug/Kg	92		0		70 (72)	130 (118)	30 (20)
Naphthalene	1200	0	1000	ug/Kg	83		0		70 (72)	130 (110)	30 (20)
4-Chloroaniline	1200	0	270	ug/Kg	23	*	0		70 (10)	130 (91)	30 (20)
Hexachlorobutadiene	1200	0	1100	ug/Kg	92		0		70 (66)	130 (114)	30 (20)
Caprolactam	1200	0	1100	ug/Kg	92		0		20 (51)	160 (134)	30 (20)
4-Chloro-3-methylphenol	1200	0	1100	ug/Kg	92		0		70 (57)	130 (132)	30 (20)
2-Methylnaphthalene	1200	0	1100	ug/Kg	92		0		70 (59)	130 (123)	30 (20)
Hexachlorocyclopentadiene	2300	0	3700	ug/Kg	161	*	5		20 (10)	160 (175)	30 (20)
2,4,6-Trichlorophenol	1200	0	1100	ug/Kg	92		0		70 (72)	130 (117)	30 (20)
2,4,5-Trichlorophenol	1200	0	1100	ug/Kg	92		0		70 (72)	130 (117)	30 (20)
1,1-Biphenyl	1200	0	1100	ug/Kg	92		0		70 (75)	130 (113)	30 (20)
2-Chloronaphthalene	1200	0	1100	ug/Kg	92		0		70 (67)	130 (118)	30 (20)
2-Nitroaniline	1200	0	1200	ug/Kg	100		0		70 (69)	130 (127)	30 (20)
Dimethylphthalate	1200	0	1100	ug/Kg	92		0		70 (70)	130 (113)	30 (20)
Acenaphthylene	1200	0	1100	ug/Kg	92		0		70 (79)	130 (118)	30 (20)
2,6-Dinitrotoluene	1200	0	1100	ug/Kg	92		0		70 (70)	130 (125)	30 (20)
3-Nitroaniline	1200	0	590	ug/Kg	49	*	2		70 (30)	130 (99)	30 (20)
Acenaphthene	1200	0	1200	ug/Kg	100		0		70 (70)	130 (121)	30 (20)
2,4-Dinitrophenol	2300	0	3100	ug/Kg	135		0		20 (10)	160 (155)	30 (20)
4-Nitrophenol	2300	0	2300	ug/Kg	100		0		20 (45)	160 (133)	30 (20)
Dibenzofuran	1200	0	1100	ug/Kg	92		0		70 (72)	130 (110)	30 (20)
2,4-Dinitrotoluene	1200	0	1200	ug/Kg	100		0		70 (55)	130 (128)	30 (20)
Diethylphthalate	1200	0	1100	ug/Kg	92		0		70 (70)	130 (112)	30 (20)
4-Chlorophenyl-phenylether	1200	0	1100	ug/Kg	92		0		70 (71)	130 (108)	30 (20)
Fluorene	1200	0	1100	ug/Kg	92		0		70 (68)	130 (116)	30 (20)
4-Nitroaniline	1200	0	1100	ug/Kg	92		0		70 (55)	130 (120)	30 (20)
4,6-Dinitro-2-methylphenol	1200	0	1700	ug/Kg	142	*	0		70 (10)	130 (160)	30 (20)
N-Nitrosodiphenylamine	1200	0	1100	ug/Kg	92		0		70 (73)	130 (118)	30 (20)
4-Bromophenyl-phenylether	1200	0	1100	ug/Kg	92		0		70 (65)	130 (121)	30 (20)
Hexachlorobenzene	1200	0	1100	ug/Kg	92		0		70 (67)	130 (118)	30 (20)
Atrazine	1200	0	1300	ug/Kg	108		0		70 (79)	130 (127)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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.: P4578

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	2300	0	2100	ug/Kg	91		5		20 (47)	160 (128)	30 (20)
Phenanthrene	1200	0	1100	ug/Kg	92		0		70 (52)	130 (128)	30 (20)
Anthracene	1200	0	1100	ug/Kg	92		0		70 (62)	130 (124)	30 (20)
Carbazole	1200	0	1000	ug/Kg	83		0		70 (59)	130 (119)	30 (20)
Di-n-butylphthalate	1200	0	1100	ug/Kg	92		0		70 (69)	130 (118)	30 (20)
Fluoranthene	1200	0	930	ug/Kg	78		0		70 (44)	130 (125)	30 (20)
Pyrene	1200	0	1000	ug/Kg	83		0		70 (26)	130 (142)	30 (20)
Butylbenzylphthalate	1200	0	1300	ug/Kg	108		0		70 (64)	130 (126)	30 (20)
3,3-Dichlorobenzidine	1200	0	730	ug/Kg	61	*	5		70 (33)	130 (116)	30 (20)
Benzo(a)anthracene	1200	0	1100	ug/Kg	92		0		70 (71)	130 (114)	30 (20)
Chrysene	1200	0	1100	ug/Kg	92		0		70 (57)	130 (121)	30 (20)
bis(2-Ethylhexyl)phthalate	1200	0	1400	ug/Kg	117		7		70 (42)	130 (169)	30 (20)
Di-n-octyl phthalate	1200	0	1300	ug/Kg	108		0		70 (23)	130 (175)	30 (20)
Benzo(b)fluoranthene	1200	0	1000	ug/Kg	83		0		70 (67)	130 (121)	30 (20)
Benzo(k)fluoranthene	1200	0	1100	ug/Kg	92		0		70 (57)	130 (134)	30 (20)
Benzo(a)pyrene	1200	0	1200	ug/Kg	100		0		70 (70)	130 (142)	30 (20)
Indeno(1,2,3-cd)pyrene	1200	0	970	ug/Kg	81		2		70 (40)	130 (129)	30 (20)
Dibenz(a,h)anthracene	1200	0	970	ug/Kg	81		2		70 (43)	130 (123)	30 (20)
Benzo(g,h,i)perylene	1200	0	810	ug/Kg	68	*	1		70 (24)	130 (125)	30 (20)
1,2,4,5-Tetrachlorobenzene	1200	0	1100	ug/Kg	92		0		70 (69)	130 (124)	30 (20)
1,4-Dioxane	1200	0	860	ug/Kg	72		3		20 (46)	160 (112)	30 (20)
2,3,4,6-Tetrachlorophenol	1200	0	1100	ug/Kg	92		0		70 (69)	130 (112)	30 (20)

( ) = LABORATORY INHOUSE LIMIT

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BE101427.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164533BS	Benzaldehyde	50	11.3	ug/L	23				20 (10)	160 (162)	
	Phenol	50	53.6	ug/L	107				20 (66)	160 (118)	
	bis(2-Chloroethyl)ether	50	44.7	ug/L	89				70 (62)	130 (103)	
	2-Chlorophenol	50	51.9	ug/L	104				70 (70)	130 (117)	
	2-Methylphenol	50	49.8	ug/L	100				70 (69)	130 (109)	
	2,2-oxybis(1-Chloropropane)	50	49.2	ug/L	98				70 (65)	130 (100)	
	Acetophenone	50	46.8	ug/L	94				70 (60)	130 (104)	
	3+4-Methylphenols	50	49.1	ug/L	98				20 (67)	160 (106)	
	N-Nitroso-di-n-propylamine	50	47.2	ug/L	94				70 (57)	130 (107)	
	Hexachloroethane	50	47.3	ug/L	95				20 (76)	160 (118)	
	Nitrobenzene	50	45.9	ug/L	92				70 (58)	130 (106)	
	Isophorone	50	46.2	ug/L	92				70 (61)	130 (102)	
	2-Nitrophenol	50	50.7	ug/L	101				70 (70)	130 (115)	
	2,4-Dimethylphenol	50	60.5	ug/L	121				70 (42)	130 (142)	
	bis(2-Chloroethoxy)methane	50	47.8	ug/L	96				70 (58)	130 (109)	
	2,4-Dichlorophenol	50	50.9	ug/L	102				70 (66)	130 (115)	
	Naphthalene	50	45.8	ug/L	92				70 (64)	130 (107)	
	4-Chloroaniline	50	33.1	ug/L	66		*		70 (10)	130 (85)	
	Hexachlorobutadiene	50	46.5	ug/L	93				70 (69)	130 (101)	
	Caprolactam	50	43.5	ug/L	87				20 (58)	160 (128)	
	4-Chloro-3-methylphenol	50	45.1	ug/L	90				70 (65)	130 (114)	
	2-Methylnaphthalene	50	45.9	ug/L	92				70 (64)	130 (107)	
	Hexachlorocyclopentadiene	100	200	ug/L	200		*		20 (36)	160 (160)	
	2,4,6-Trichlorophenol	50	52.0	ug/L	104				70 (61)	130 (110)	
	2,4,5-Trichlorophenol	50	49.8	ug/L	100				70 (70)	130 (106)	
	1,1-Biphenyl	50	47.9	ug/L	96				70 (72)	130 (98)	
	2-Chloronaphthalene	50	47.3	ug/L	95				70 (59)	130 (106)	
	2-Nitroaniline	50	51.8	ug/L	104				70 (73)	130 (114)	
	Dimethylphthalate	50	47.7	ug/L	95				70 (64)	130 (103)	
	Acenaphthylene	50	51.2	ug/L	102				70 (79)	130 (103)	
	2,6-Dinitrotoluene	50	46.1	ug/L	92				70 (64)	130 (110)	
	3-Nitroaniline	50	37.3	ug/L	75				70 (28)	130 (100)	
	Acenaphthene	50	48.4	ug/L	97				70 (59)	130 (113)	
	2,4-Dinitrophenol	100	82.1	ug/L	82				20 (36)	160 (166)	
	4-Nitrophenol	100	100	ug/L	100				20 (45)	160 (147)	
	Dibenzofuran	50	48.1	ug/L	96				70 (65)	130 (106)	
	2,4-Dinitrotoluene	50	48.6	ug/L	97				70 (60)	130 (115)	
	Diethylphthalate	50	47.4	ug/L	95				70 (63)	130 (105)	
	4-Chlorophenyl-phenylether	50	46.8	ug/L	94				70 (61)	130 (104)	
	Fluorene	50	47.2	ug/L	94				70 (64)	130 (107)	
	4-Nitroaniline	50	47.0	ug/L	94				70 (55)	130 (125)	
	4,6-Dinitro-2-methylphenol	50	48.1	ug/L	96				70 (62)	130 (132)	
	N-Nitrosodiphenylamine	50	49.3	ug/L	99				70 (61)	130 (109)	
	4-Bromophenyl-phenylether	50	47.3	ug/L	95				70 (73)	130 (103)	

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BE101427.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164533BS	Hexachlorobenzene	50	46.9	ug/L	94				70 (73)	130 (106)	
	Atrazine	50	61.2	ug/L	122				70 (76)	130 (120)	
	Pentachlorophenol	100	100	ug/L	100				20 (47)	160 (114)	
	Phenanthrene	50	49.7	ug/L	99				70 (62)	130 (109)	
	Anthracene	50	52.6	ug/L	105				70 (65)	130 (110)	
	Carbazole	50	48.6	ug/L	97				70 (62)	130 (106)	
	Di-n-butylphthalate	50	51.0	ug/L	102				70 (64)	130 (106)	
	Fluoranthene	50	48.9	ug/L	98				70 (64)	130 (110)	
	Pyrene	50	47.2	ug/L	94				70 (71)	130 (103)	
	Butylbenzylphthalate	50	49.1	ug/L	98				70 (61)	130 (105)	
	3,3-Dichlorobenzidine	50	40.2	ug/L	80				70 (43)	130 (108)	
	Benzo(a)anthracene	50	50.1	ug/L	100				70 (62)	130 (107)	
	Chrysene	50	49.7	ug/L	99				70 (61)	130 (108)	
	bis(2-Ethylhexyl)phthalate	50	52.7	ug/L	105				70 (59)	130 (110)	
	Di-n-octyl phthalate	50	55.7	ug/L	111				70 (52)	130 (139)	
	Benzo(b)fluoranthene	50	47.3	ug/L	95				70 (77)	130 (113)	
	Benzo(k)fluoranthene	50	51.0	ug/L	102				70 (77)	130 (105)	
	Benzo(a)pyrene	50	52.9	ug/L	106				70 (72)	130 (131)	
	Indeno(1,2,3-cd)pyrene	50	51.1	ug/L	102				70 (72)	130 (105)	
	Dibenz(a,h)anthracene	50	51.4	ug/L	103				70 (78)	130 (115)	
	Benzo(g,h,i)perylene	50	45.8	ug/L	92				70 (75)	130 (118)	
	1,2,4,5-Tetrachlorobenzene	50	49.1	ug/L	98				70 (72)	130 (101)	
	1,4-Dioxane	50	37.1	ug/L	74				20 (38)	160 (125)	
	2,3,4,6-Tetrachlorophenol	50	50.8	ug/L	102				70 (63)	130 (116)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BE101428.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164533BSD	Benzaldehyde	50	11.4	ug/L	23	1			20 (10)	160 (162)	20 (20)
	Phenol	50	53.6	ug/L	107	0			20 (66)	160 (118)	20 (20)
	bis(2-Chloroethyl)ether	50	47.2	ug/L	94	5			70 (62)	130 (103)	20 (20)
	2-Chlorophenol	50	51.8	ug/L	104	0			70 (70)	130 (117)	20 (20)
	2-Methylphenol	50	49.8	ug/L	100	0			70 (69)	130 (109)	20 (20)
	2,2-oxybis(1-Chloropropane)	50	48.6	ug/L	97	1			70 (65)	130 (100)	20 (20)
	Acetophenone	50	47.3	ug/L	95	1			70 (60)	130 (104)	20 (20)
	3+4-Methylphenols	50	49.5	ug/L	99	1			20 (67)	160 (106)	20 (20)
	N-Nitroso-di-n-propylamine	50	47.5	ug/L	95	1			70 (57)	130 (107)	20 (20)
	Hexachloroethane	50	47.0	ug/L	94	1			20 (76)	160 (118)	20 (20)
	Nitrobenzene	50	46.1	ug/L	92	0			70 (58)	130 (106)	20 (20)
	Isophorone	50	47.1	ug/L	94	2			70 (61)	130 (102)	20 (20)
	2-Nitrophenol	50	51.2	ug/L	102	1			70 (70)	130 (115)	20 (20)
	2,4-Dimethylphenol	50	61.5	ug/L	123	2			70 (42)	130 (142)	20 (20)
	bis(2-Chloroethoxy)methane	50	48.4	ug/L	97	1			70 (58)	130 (109)	20 (20)
	2,4-Dichlorophenol	50	52.0	ug/L	104	2			70 (66)	130 (115)	20 (20)
	Naphthalene	50	45.9	ug/L	92	0			70 (64)	130 (107)	20 (20)
	4-Chloroaniline	50	34.8	ug/L	70	5			70 (10)	130 (85)	20 (20)
	Hexachlorobutadiene	50	45.9	ug/L	92	1			70 (69)	130 (101)	20 (20)
	Caprolactam	50	46.3	ug/L	93	6			20 (58)	160 (128)	20 (20)
	4-Chloro-3-methylphenol	50	46.6	ug/L	93	3			70 (65)	130 (114)	20 (20)
	2-Methylnaphthalene	50	46.7	ug/L	93	2			70 (64)	130 (107)	20 (20)
	Hexachlorocyclopentadiene	100	200	ug/L	200	0	*		20 (36)	160 (160)	20 (20)
	2,4,6-Trichlorophenol	50	51.9	ug/L	104	0			70 (61)	130 (110)	20 (20)
	2,4,5-Trichlorophenol	50	50.0	ug/L	100	0			70 (70)	130 (106)	20 (20)
	1,1-Biphenyl	50	47.6	ug/L	95	1			70 (72)	130 (98)	20 (20)
	2-Chloronaphthalene	50	46.7	ug/L	93	1			70 (59)	130 (106)	20 (20)
	2-Nitroaniline	50	51.9	ug/L	104	0			70 (73)	130 (114)	20 (20)
	Dimethylphthalate	50	48.3	ug/L	97	1			70 (64)	130 (103)	20 (20)
	Acenaphthylene	50	51.8	ug/L	104	1			70 (79)	130 (103)	20 (20)
	2,6-Dinitrotoluene	50	46.7	ug/L	93	1			70 (64)	130 (110)	20 (20)
	3-Nitroaniline	50	37.1	ug/L	74	1			70 (28)	130 (100)	20 (20)
	Acenaphthene	50	48.0	ug/L	96	1			70 (59)	130 (113)	20 (20)
	2,4-Dinitrophenol	100	84.6	ug/L	85	3			20 (36)	160 (166)	20 (20)
	4-Nitrophenol	100	100	ug/L	100	0			20 (45)	160 (147)	20 (20)
	Dibenzofuran	50	48.2	ug/L	96	0			70 (65)	130 (106)	20 (20)
	2,4-Dinitrotoluene	50	49.7	ug/L	99	2			70 (60)	130 (115)	20 (20)
	Diethylphthalate	50	47.6	ug/L	95	0			70 (63)	130 (105)	20 (20)
	4-Chlorophenyl-phenylether	50	47.1	ug/L	94	1			70 (61)	130 (104)	20 (20)
	Fluorene	50	47.4	ug/L	95	0			70 (64)	130 (107)	20 (20)
	4-Nitroaniline	50	47.1	ug/L	94	0			70 (55)	130 (125)	20 (20)
	4,6-Dinitro-2-methylphenol	50	49.3	ug/L	99	2			70 (62)	130 (132)	20 (20)
	N-Nitrosodiphenylamine	50	49.7	ug/L	99	1			70 (61)	130 (109)	20 (20)
	4-Bromophenyl-phenylether	50	47.7	ug/L	95	1			70 (73)	130 (103)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BE101428.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164533BSD	Hexachlorobenzene	50	46.9	ug/L	94	0			70 (73)	130 (106)	20 (20)
	Atrazine	50	61.4	ug/L	123	0			70 (76)	130 (120)	20 (20)
	Pentachlorophenol	100	110	ug/L	110	10			20 (47)	160 (114)	20 (20)
	Phenanthrene	50	50.0	ug/L	100	1			70 (62)	130 (109)	20 (20)
	Anthracene	50	52.9	ug/L	106	1			70 (65)	130 (110)	20 (20)
	Carbazole	50	49.1	ug/L	98	1			70 (62)	130 (106)	20 (20)
	Di-n-butylphthalate	50	51.5	ug/L	103	1			70 (64)	130 (106)	20 (20)
	Fluoranthene	50	48.8	ug/L	98	0			70 (64)	130 (110)	20 (20)
	Pyrene	50	46.5	ug/L	93	1			70 (71)	130 (103)	20 (20)
	Butylbenzylphthalate	50	49.4	ug/L	99	1			70 (61)	130 (105)	20 (20)
	3,3-Dichlorobenzidine	50	40.7	ug/L	81	1			70 (43)	130 (108)	20 (20)
	Benzo(a)anthracene	50	49.9	ug/L	100	0			70 (62)	130 (107)	20 (20)
	Chrysene	50	49.1	ug/L	98	1			70 (61)	130 (108)	20 (20)
	bis(2-Ethylhexyl)phthalate	50	52.8	ug/L	106	0			70 (59)	130 (110)	20 (20)
	Di-n-octyl phthalate	50	55.2	ug/L	110	1			70 (52)	130 (139)	20 (20)
	Benzo(b)fluoranthene	50	46.7	ug/L	93	1			70 (77)	130 (113)	20 (20)
	Benzo(k)fluoranthene	50	51.1	ug/L	102	0			70 (77)	130 (105)	20 (20)
	Benzo(a)pyrene	50	52.5	ug/L	105	1			70 (72)	130 (131)	20 (20)
	Indeno(1,2,3-cd)pyrene	50	51.1	ug/L	102	0			70 (72)	130 (105)	20 (20)
	Dibenz(a,h)anthracene	50	51.0	ug/L	102	1			70 (78)	130 (115)	20 (20)
	Benzo(g,h,i)perylene	50	45.6	ug/L	91	0			70 (75)	130 (118)	20 (20)
	1,2,4,5-Tetrachlorobenzene	50	48.2	ug/L	96	2			70 (72)	130 (101)	20 (20)
	1,4-Dioxane	50	39.0	ug/L	78	5			20 (38)	160 (125)	20 (20)
	2,3,4,6-Tetrachlorophenol	50	51.5	ug/L	103	1			70 (63)	130 (116)	20 (20)

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140102.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB164461BS	Benzaldehyde	1700	420	ug/Kg	25				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	1500	ug/Kg	88				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	1400	ug/Kg	82				70 (66)	130 (98)	
	3+4-Methylphenols	1700	1400	ug/Kg	82				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	1400	ug/Kg	82				70 (57)	130 (101)	
	Isophorone	1700	1500	ug/Kg	88				70 (59)	130 (99)	
	2-Nitrophenol	1700	1800	ug/Kg	106				70 (61)	130 (111)	
	2,4-Dimethylphenol	1700	1700	ug/Kg	100				70 (46)	130 (141)	
	bis(2-Chloroethoxy)methane	1700	1500	ug/Kg	88				70 (66)	130 (97)	
	2,4-Dichlorophenol	1700	1500	ug/Kg	88				70 (62)	130 (107)	
	Naphthalene	1700	1400	ug/Kg	82				70 (62)	130 (100)	
	4-Chloroaniline	1700	550	ug/Kg	32		*		70 (16)	130 (100)	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				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	1500	ug/Kg	88				70 (60)	130 (104)	
	Hexachlorocyclopentadiene	3300	5600	ug/Kg	170		*		20 (45)	160 (165)	
	2,4,6-Trichlorophenol	1700	1600	ug/Kg	94				70 (59)	130 (102)	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				70 (61)	130 (98)	
	1,1-Biphenyl	1700	1500	ug/Kg	88				70 (57)	130 (103)	
	2-Chloronaphthalene	1700	1500	ug/Kg	88				70 (58)	130 (99)	
	2-Nitroaniline	1700	1700	ug/Kg	100				70 (66)	130 (101)	
	Dimethylphthalate	1700	1500	ug/Kg	88				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	960	ug/Kg	56		*		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	3300	ug/Kg	100				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	1500	ug/Kg	88				70 (58)	130 (98)	
	Fluorene	1700	1500	ug/Kg	88				70 (61)	130 (101)	
	4-Nitroaniline	1700	1700	ug/Kg	100				70 (64)	130 (103)	
	4,6-Dinitro-2-methylphenol	1700	2200	ug/Kg	129				70 (76)	130 (113)	
	N-Nitrosodiphenylamine	1700	1500	ug/Kg	88				70 (71)	130 (99)	
	4-Bromophenyl-phenylether	1700	1500	ug/Kg	88				70 (66)	130 (102)	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P4578

Client: Portal Partners Tri-Venture

Analytical Method: 8270E **DataFile:** BF140102.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB164461BS	Hexachlorobenzene	1700	1500	ug/Kg	88				70 (64)	130 (98)	
	Atrazine	1700	1800	ug/Kg	106				70 (47)	130 (152)	
	Pentachlorophenol	3300	3100	ug/Kg	94				20 (67)	160 (105)	
	Phenanthrene	1700	1500	ug/Kg	88				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	1600	ug/Kg	94				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	1900	ug/Kg	112				70 (55)	130 (103)	
	3,3-Dichlorobenzidine	1700	1000	ug/Kg	59		*		70 (42)	130 (91)	
	Benzo(a)anthracene	1700	1600	ug/Kg	94				70 (60)	130 (102)	
	Chrysene	1700	1500	ug/Kg	88				70 (59)	130 (101)	
	bis(2-Ethylhexyl)phthalate	1700	2000	ug/Kg	118				70 (54)	130 (135)	
	Di-n-octyl phthalate	1700	1500	ug/Kg	88				70 (52)	130 (137)	
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				70 (62)	130 (109)	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				70 (62)	130 (109)	
	Benzo(a)pyrene	1700	1700	ug/Kg	100				70 (63)	130 (103)	
	Indeno(1,2,3-cd)pyrene	1700	1600	ug/Kg	94				70 (63)	130 (101)	
	Dibenz(a,h)anthracene	1700	1600	ug/Kg	94				70 (61)	130 (112)	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				70 (70)	130 (108)	
	1,2,4,5-Tetrachlorobenzene	1700	1500	ug/Kg	88				70 (53)	130 (101)	
	1,4-Dioxane	1700	1100	ug/Kg	65				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.

PB164461BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: BF140101.D Lab Sample ID: PB164461BL

Instrument ID: BNA_F Date Extracted: 10/28/2024

Matrix: (soil/water) SOIL Date Analyzed: 10/29/2024

Level: (low/med) LOW Time Analyzed: 10:05

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164461BS	PB164461BS	BF140102.D	10/29/2024
WB-305-BOT	P4578-05	BF140110.D	10/29/2024
WB-305-BOT-1	P4578-07	BF140111.D	10/29/2024
WB-305-TOP-1	P4578-04	BF140125.D	10/29/2024
WB-305-TOP	P4578-03	BF140156.D	10/30/2024
BP-F-18MS	P4561-05MS	BF140105.D	10/29/2024
BP-F-18MSD	P4561-05MSD	BF140106.D	10/29/2024

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164533BL

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

Lab File ID: BE101426.D Lab Sample ID: PB164533BL

Instrument ID: BNA_E Date Extracted: 10/30/2024

Matrix: (soil/water) Water Date Analyzed: 10/31/2024

Level: (low/med) LOW Time Analyzed: 10:57

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB164533BS	PB164533BS	BE101427.D	10/31/2024
PB164533BSD	PB164533BSD	BE101428.D	10/31/2024
WB-305-SW	P4578-01	BF140193.D	10/31/2024
WB-305-SW-1	P4578-02	BE101433.D	10/31/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4578 SDG NO.: P4578

Lab File ID: BE101388.D DFTPP Injection Date: 10/28/2024

Instrument ID: BNA_E DFTPP Injection Time: 10:51

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	17.8
68	Less than 2.0% of mass 69	0.3 (1.5) 1
69	Mass 69 relative abundance	18.3
70	Less than 2.0% of mass 69	0.0 (0.1) 1
127	10.0 - 80.0% of mass 198	27.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	4
275	10.0 - 60.0% of mass 198	20
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	16.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	20.1 (20.1) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BE101389.D	10/28/2024	11:44
SSTDICC005	SSTDICC005	BE101390.D	10/28/2024	12:23
SSTDICC010	SSTDICC010	BE101391.D	10/28/2024	12:59
SSTDICC020	SSTDICC020	BE101392.D	10/28/2024	13:35
SSTDICCC040	SSTDICCC040	BE101393.D	10/28/2024	14:11
SSTDICC050	SSTDICC050	BE101394.D	10/28/2024	14:49
SSTDICC060	SSTDICC060	BE101395.D	10/28/2024	15:25
SSTDICC080	SSTDICC080	BE101396.D	10/28/2024	16:01

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4578 SDG NO.: P4578

Lab File ID: BE101424.D DFTPP Injection Date: 10/31/2024

Instrument ID: BNA_E DFTPP Injection Time: 09:40

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	18.3
68	Less than 2.0% of mass 69	0.2 (0.8) 1
69	Mass 69 relative abundance	19.2
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	27
197	Less than 2.0% of mass 198	0.1
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	4.1
275	10.0 - 60.0% of mass 198	19.5
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	16.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.6 (19.6) 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	BE101425.D	10/31/2024	10:18
PB164533BL	PB164533BL	BE101426.D	10/31/2024	10:57
PB164533BS	PB164533BS	BE101427.D	10/31/2024	11:33
PB164533BSD	PB164533BSD	BE101428.D	10/31/2024	12:09
WB-305-SW-1	P4578-02	BE101433.D	10/31/2024	15:14

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4578 SDG NO.: P4578

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.: P4578 SDG NO.: P4578

Lab File ID: BF140099.D DFTPP Injection Date: 10/29/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:09

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39.6
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	36
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	44.7
197	Less than 2.0% of mass 198	0.0
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	27.3
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.4 (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	BF140100.D	10/29/2024	09:37
PB164461BL	PB164461BL	BF140101.D	10/29/2024	10:05
PB164461BS	PB164461BS	BF140102.D	10/29/2024	10:33
BP-F-18MS	P4561-05MS	BF140105.D	10/29/2024	12:02
BP-F-18MSD	P4561-05MSD	BF140106.D	10/29/2024	12:30
WB-305-BOT	P4578-05	BF140110.D	10/29/2024	14:16
WB-305-BOT-1	P4578-07	BF140111.D	10/29/2024	14:42

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4578 SDG NO.: P4578

Lab File ID: BF140112.D DFTPP Injection Date: 10/29/2024

Instrument ID: BNA_F DFTPP Injection Time: 15:35

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	31.9
68	Less than 2.0% of mass 69	0.6 (1.9) 1
69	Mass 69 relative abundance	29.7
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	38.6
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.7
275	10.0 - 60.0% of mass 198	25.1
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	15.1
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	BF140113.D	10/29/2024	16:01
WB-305-TOP-1	P4578-04	BF140125.D	10/29/2024	21:13

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4578 SDG NO.: P4578

Lab File ID: BF140151.D DFTPP Injection Date: 10/30/2024

Instrument ID: BNA_F DFTPP Injection Time: 11:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	42.9
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	37.4
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47.1
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	27.6
365	Greater than 1% of mass 198	3.4
441	Present, but less than mass 443	14.5
442	Greater than 50% of mass 198	93.9
443	15.0 - 24.0% of mass 442	17.9 (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	BF140152.D	10/30/2024	12:50
WB-305-TOP	P4578-03	BF140156.D	10/30/2024	14:41

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4578 SDG NO.: P4578

Lab File ID: BF140175.D DFTPP Injection Date: 10/31/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:56

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 (2) 1
69	Mass 69 relative abundance	36.4
70	Less than 2.0% of mass 69	0.2 (0.7) 1
127	10.0 - 80.0% of mass 198	45.9
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.1
275	10.0 - 60.0% of mass 198	27.3
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.4 (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	BF140176.D	10/31/2024	09:22
WB-305-SW	P4578-01	BF140193.D	10/31/2024	17:01

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM SAS No.: P4578 SDG NO.: P4578

Lab File ID: BF140199.D DFTPP Injection Date: 11/01/2024

Instrument ID: BNA_F DFTPP Injection Time: 08:56

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	42.9
68	Less than 2.0% of mass 69	0.7 (1.7) 1
69	Mass 69 relative abundance	37.8
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47
197	Less than 2.0% of mass 198	0.7
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	28.1
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	15.6
442	Greater than 50% of mass 198	98.8
443	15.0 - 24.0% of mass 442	19.3 (19.5) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140200.D	11/01/2024	09:22
WB-305-SWRE	P4578-01RE	BF140206.D	11/01/2024	12:07
WB-305-SW-1RE	P4578-02RE	BF140207.D	11/01/2024	12:33

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/31/2024

Lab File ID: BE101425.D Time Analyzed: 10:18

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	136647	7.573	695845	10.34	498092	14.18
	UPPER LIMIT	273294	8.073	1391690	10.84	996184	14.683
	LOWER LIMIT	68323.5	7.073	347923	9.84	249046	13.683
	EPA SAMPLE NO.						
01	PB164533BL	111412	7.57	479387	10.34	322455	14.18
02	PB164533BS	115147	7.57	538934	10.34	360623	14.18
03	WB-305-SW-1	150057	7.57	662069	10.34	470146	14.18
04	PB164533BSD	113034	7.57	526465	10.34	360052	14.18

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.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/31/2024

Lab File ID: BE101425.D Time Analyzed: 10:18

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	1107610	16.915	1206960	21.081	1484760	23.366
	UPPER LIMIT	2215220	17.415	2413920	21.581	2969520	23.866
	LOWER LIMIT	553805	16.415	603480	20.581	742380	22.866
	EPA SAMPLE NO.						
01	PB164533BL	764639	16.92	978042	21.08	1302950	23.36
02	PB164533BS	814107	16.92	960075	21.08	1281360	23.37
03	WB-305-SW-1	1206170	16.91	1598010	21.07	2061050	23.36
04	PB164533BSD	812601	16.92	969385	21.08	1285880	23.36

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/29/2024

Lab File ID: BF140100.D Time Analyzed: 09:37

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	138305	6.893	518016	8.18	286088	9.93
	UPPER LIMIT	276610	7.393	1036030	8.675	572176	10.428
	LOWER LIMIT	69152.5	6.393	259008	7.675	143044	9.428
	EPA SAMPLE NO.						
01	PB164461BL	132334	6.89	522078	8.17	293840	9.92
02	PB164461BS	127430	6.89	500801	8.17	278385	9.93
03	BP-F-18MS	119078	6.89	468695	8.17	258838	9.93
04	BP-F-18MSD	121800	6.89	465155	8.17	256664	9.93
05	WB-305-BOT	120686	6.89	473213	8.17	267166	9.92
06	WB-305-BOT-1	122139	6.89	478188	8.17	267029	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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/29/2024

Lab File ID: BF140100.D Time Analyzed: 09:37

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	513809	11.416	264357	14.051	264628	15.527
	UPPER LIMIT	1027620	11.916	528714	14.551	529256	16.027
	LOWER LIMIT	256905	10.916	132179	13.551	132314	15.027
	EPA SAMPLE NO.						
01	PB164461BL	532374	11.41	353787	14.05	265432	15.53
02	PB164461BS	513541	11.42	266065	14.05	256361	15.53
03	BP-F-18MS	443678	11.42	213800	14.05	269959	15.53
04	BP-F-18MSD	439821	11.42	211408	14.05	270997	15.53
05	WB-305-BOT	461039	11.41	224689	14.06	271519	15.55
06	WB-305-BOT-1	461723	11.41	225154	14.06	268509	15.56

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

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SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/29/2024

Lab File ID: BF140113.D Time Analyzed: 16:01

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	154336	6.892	582321	8.18	326390	9.93
	UPPER LIMIT	308672	7.392	1164640	8.675	652780	10.428
	LOWER LIMIT	77168	6.392	291161	7.675	163195	9.428
	EPA SAMPLE NO.						
01	WB-305-TOP-1	121877	6.89	473789	8.17	240944	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.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/29/2024

Lab File ID: BF140113.D Time Analyzed: 16:01

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	563401	11.416	296186	14.074	329400	15.592
	UPPER LIMIT	1126800	11.916	592372	14.574	658800	16.092
	LOWER LIMIT	281701	10.916	148093	13.574	164700	15.092
	EPA SAMPLE NO.						
01	WB-305-TOP-1	345918	11.41	236214	14.05	244867	15.55

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

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

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

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/30/2024

Lab File ID: BF140152.D Time Analyzed: 12:50

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	120224	6.887	456321	8.17	257889	9.93
	UPPER LIMIT	240448	7.387	912642	8.669	515778	10.428
	LOWER LIMIT	60112	6.387	228161	7.669	128945	9.428
	EPA SAMPLE NO.						
01	WB-305-TOP	110861	6.88	423380	8.16	224222	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.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/30/2024

Lab File ID: BF140152.D Time Analyzed: 12:50

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	475664	11.416	284421	14.068	273128	15.574
	UPPER LIMIT	951328	11.916	568842	14.568	546256	16.074
	LOWER LIMIT	237832	10.916	142211	13.568	136564	15.074
	EPA SAMPLE NO.						
01	WB-305-TOP	363381	11.42	172346	14.07	220971	15.58

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.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/31/2024

Lab File ID: BF140176.D Time Analyzed: 09:22

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	122098	6.886	468668	8.17	269255	9.93
	UPPER LIMIT	244196	7.386	937336	8.669	538510	10.433
	LOWER LIMIT	61049	6.386	234334	7.669	134628	9.433
	EPA SAMPLE NO.						
01	WB-305-SW	185491	6.89	676798	8.16	334897	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.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 10/31/2024

Lab File ID: BF140176.D Time Analyzed: 09:22

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	495112	11.427	315081	14.098	256770	15.627
	UPPER LIMIT	990224	11.927	630162	14.598	513540	16.127
	LOWER LIMIT	247556	10.927	157541	13.598	128385	15.127
	EPA SAMPLE NO.						
01	WB-305-SW	527934	11.42	330677	14.07	264306	15.57

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.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/01/2024

Lab File ID: BF140200.D Time Analyzed: 09:22

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	147950	6.887	577069	8.17	331720	9.93
	UPPER LIMIT	295900	7.387	1154140	8.669	663440	10.428
	LOWER LIMIT	73975	6.387	288535	7.669	165860	9.428
	EPA SAMPLE NO.						
01	WB-305-SWRE	221542	6.88	874676	8.16	496865	9.92
02	WB-305-SW-1RE	186612	6.88	733188	8.16	415849	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.: P4578 SAS No.: P4578 SDG NO.: P4578

EPA Sample No.: SSTDCCC040 Date Analyzed: 11/01/2024

Lab File ID: BF140200.D Time Analyzed: 09:22

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	606919	11.422	388668	14.08	308087	15.58
	UPPER LIMIT	1213840	11.922	777336	14.58	616174	16.08
	LOWER LIMIT	303460	10.922	194334	13.58	154044	15.08
	EPA SAMPLE NO.						
01	WB-305-SWRE	893182	11.42	535712	14.07	445221	15.57
02	WB-305-SW-1RE	750159	11.42	460215	14.07	381772	15.58

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: **BF140101.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:	PB164461BL	SDG No.:	P4578
Lab Sample ID:	PB164461BL	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
BF140101.D	1	10/28/24 09:00	10/29/24 10:05	PB164461

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: **BF140101.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:	PB164461BL	SDG No.:	P4578
Lab Sample ID:	PB164461BL	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
BF140101.D	1	10/28/24 09:00	10/29/24 10:05	PB164461

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: **BF140101.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:	PB164461BL	SDG No.:	P4578
Lab Sample ID:	PB164461BL	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
BF140101.D	1	10/28/24 09:00	10/29/24 10:05	PB164461

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	119		30 (18) - 130 (112)	79%	SPK: 150
13127-88-3	Phenol-d6	116		30 (15) - 130 (107)	77%	SPK: 150
4165-60-0	Nitrobenzene-d5	89.7		30 (18) - 130 (107)	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.0		30 (20) - 130 (109)	86%	SPK: 100
118-79-6	2,4,6-Tribromophenol	135		30 (10) - 130 (116)	90%	SPK: 150
1718-51-0	Terphenyl-d14	81.7		30 (10) - 130 (105)	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	132000	6.887			
1146-65-2	Naphthalene-d8	522000	8.169			
15067-26-2	Acenaphthene-d10	294000	9.922			
1517-22-2	Phenanthrene-d10	532000	11.41			
1719-03-5	Chrysene-d12	354000	14.045			
1520-96-3	Perylene-d12	265000	15.527			
TENTATIVE IDENTIFIED COMPOUNDS						
000994-05-8	Butane, 2-methoxy-2-methyl-	91.0	J		2.26	ug/Kg
000111-06-8	Hexadecanoic acid, butyl ester	89.6	J		12.8	ug/Kg

Raw Data: **BF140101.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:	PB164461BL			SDG No.:	P4578
Lab Sample ID:	PB164461BL			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
BF140101.D	1	10/28/24 09:00	10/29/24 10:05	PB164461

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:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164533BL	SDG No.:	P4578
Lab Sample ID:	PB164533BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101426.D	1	10/30/24 08:50	10/31/24 10:57	PB164533

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

Raw Data: **BE101426.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:	PB164533BL	SDG No.:	P4578
Lab Sample ID:	PB164533BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101426.D	1	10/30/24 08:50	10/31/24 10:57	PB164533

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

Raw Data: **BE101426.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:	PB164533BL	SDG No.:	P4578
Lab Sample ID:	PB164533BL	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101426.D	1	10/30/24 08:50	10/31/24 10:57	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.00	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.79	U	0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	160		15 (10) - 110 (139)	107%	SPK: 150
13127-88-3	Phenol-d6	148		15 (10) - 110 (134)	99%	SPK: 150
4165-60-0	Nitrobenzene-d5	98.4		30 (49) - 130 (133)	98%	SPK: 100
321-60-8	2-Fluorobiphenyl	104		30 (52) - 130 (132)	104%	SPK: 100
118-79-6	2,4,6-Tribromophenol	150		15 (44) - 110 (137)	100%	SPK: 150
1718-51-0	Terphenyl-d14	89.9		30 (48) - 130 (125)	90%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	111000	7.567			
1146-65-2	Naphthalene-d8	479000	10.34			
15067-26-2	Acenaphthene-d10	322000	14.177			
1517-22-2	Phenanthrene-d10	765000	16.915			
1719-03-5	Chrysene-d12	978000	21.075			
1520-96-3	Perylene-d12	1300000	23.361			

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: **BF140102.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164461BS	SDG No.:	P4578
Lab Sample ID:	PB164461BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140102.D	1	10/28/24 09:00	10/29/24 10:33	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	420		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	1500		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	1400		86.8	170	ug/Kg
65794-96-9	3+4-Methylphenols	1400		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	1400		90.7	170	ug/Kg
78-59-1	Isophorone	1500		84.5	170	ug/Kg
88-75-5	2-Nitrophenol	1800		94.4	170	ug/Kg
105-67-9	2,4-Dimethylphenol	1700		93.1	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1500		85.7	170	ug/Kg
120-83-2	2,4-Dichlorophenol	1500		75.4	170	ug/Kg
91-20-3	Naphthalene	1400		82.5	170	ug/Kg
106-47-8	4-Chloroaniline	550		82.5	170	ug/Kg
87-68-3	Hexachlorobutadiene	1500		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	1500		82.4	170	ug/Kg
77-47-4	Hexachlorocyclopentadiene	5600	E	160	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1600		71.3	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1500		73.9	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	1500		81.6	170	ug/Kg

Raw Data: **BF140102.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164461BS	SDG No.:	P4578
Lab Sample ID:	PB164461BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140102.D	1	10/28/24 09:00	10/29/24 10:33	PB164461

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	960		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	3300	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	1500		85.5	170	ug/Kg
86-73-7	Fluorene	1500		85.4	170	ug/Kg
100-01-6	4-Nitroaniline	1700		110	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	2200		120	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1500		81.5	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1500		78.8	170	ug/Kg
118-74-1	Hexachlorobenzene	1500		84.9	170	ug/Kg
1912-24-9	Atrazine	1800		91.3	170	ug/Kg
87-86-5	Pentachlorophenol	3100	E	77.2	330	ug/Kg
85-01-8	Phenanthrene	1500		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	1600		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	1900		96.7	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	1000		98.5	330	ug/Kg
56-55-3	Benzo(a)anthracene	1600		80.6	170	ug/Kg
218-01-9	Chrysene	1500		79.4	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	2000		90.9	170	ug/Kg
117-84-0	Di-n-octyl phthalate	1500		110	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	1500		81.0	170	ug/Kg

Raw Data: **BF140102.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164461BS	SDG No.:	P4578
Lab Sample ID:	PB164461BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140102.D	1	10/28/24 09:00	10/29/24 10:33	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1600		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	1600		78.0	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1600		81.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1500		80.0	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1500		86.7	170	ug/Kg
123-91-1	1,4-Dioxane	1100		110	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1700		74.6	170	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	122		30 (18) - 130 (112)	81%	SPK: 150
13127-88-3	Phenol-d6	119		30 (15) - 130 (107)	80%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.1		30 (18) - 130 (107)	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	87.6		30 (20) - 130 (109)	88%	SPK: 100
118-79-6	2,4,6-Tribromophenol	144		30 (10) - 130 (116)	96%	SPK: 150
1718-51-0	Terphenyl-d14	100		30 (10) - 130 (105)	100%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	127000	6.887			
1146-65-2	Naphthalene-d8	501000	8.169			
15067-26-2	Acenaphthene-d10	278000	9.928			
1517-22-2	Phenanthrene-d10	514000	11.416			
1719-03-5	Chrysene-d12	266000	14.051			
1520-96-3	Perylene-d12	256000	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

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164533BS	SDG No.:	P4578
Lab Sample ID:	PB164533BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101427.D	1	10/30/24 08:50	10/31/24 11:33	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	11.3		4.00	10.0	ug/L
108-95-2	Phenol	53.6		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	44.7		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	51.9		0.71	5.00	ug/L
95-48-7	2-Methylphenol	49.8		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	49.2		1.40	5.00	ug/L
98-86-2	Acetophenone	46.8		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	49.1		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	47.2		1.50	2.50	ug/L
67-72-1	Hexachloroethane	47.3		1.00	5.00	ug/L
98-95-3	Nitrobenzene	45.9		1.30	5.00	ug/L
78-59-1	Isophorone	46.2		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	50.7		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	60.5		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	47.8		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	50.9		0.88	5.00	ug/L
91-20-3	Naphthalene	45.8		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	33.1		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	46.5		1.30	5.00	ug/L
105-60-2	Caprolactam	43.5		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	45.1		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	45.9		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	200	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	52.0		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	49.8		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	47.9		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	47.3		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	51.8		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	47.7		0.93	5.00	ug/L

Raw Data: **BE101427.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164533BS	SDG No.:	P4578
Lab Sample ID:	PB164533BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101427.D	1	10/30/24 08:50	10/31/24 11:33	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	51.2		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	46.1		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	37.3		1.40	5.00	ug/L
83-32-9	Acenaphthene	48.4		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	82.1	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	100	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	48.1		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	48.6		1.50	5.00	ug/L
84-66-2	Diethylphthalate	47.4		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	46.8		0.98	5.00	ug/L
86-73-7	Fluorene	47.2		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	47.0		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	48.1		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	49.3		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	47.3		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	46.9		1.10	5.00	ug/L
1912-24-9	Atrazine	61.2		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	100	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	49.7		0.89	5.00	ug/L
120-12-7	Anthracene	52.6		1.10	5.00	ug/L
86-74-8	Carbazole	48.6		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	51.0		1.50	5.00	ug/L
206-44-0	Fluoranthene	48.9		1.30	5.00	ug/L
129-00-0	Pyrene	47.2		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	49.1		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	40.2		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	50.1		0.94	5.00	ug/L
218-01-9	Chrysene	49.7		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	52.7		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	55.7		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	47.3		1.10	5.00	ug/L

Raw Data: **BE101427.D**

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

Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164533BS	SDG No.:	P4578
Lab Sample ID:	PB164533BS	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101427.D	1	10/30/24 08:50	10/31/24 11:33	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	51.0		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	52.9		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	51.1		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	51.4		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	45.8		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	49.1		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	37.1		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	50.8		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	154		15 (10) - 110 (139)	102%	SPK: 150
13127-88-3	Phenol-d6	139		15 (10) - 110 (134)	92%	SPK: 150
4165-60-0	Nitrobenzene-d5	91.2		30 (49) - 130 (133)	91%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.5		30 (52) - 130 (132)	95%	SPK: 100
118-79-6	2,4,6-Tribromophenol	138		15 (44) - 110 (137)	92%	SPK: 150
1718-51-0	Terphenyl-d14	86.8		30 (48) - 130 (125)	87%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	115000	7.571			
1146-65-2	Naphthalene-d8	539000	10.339			
15067-26-2	Acenaphthene-d10	361000	14.181			
1517-22-2	Phenanthrene-d10	814000	16.919			
1719-03-5	Chrysene-d12	960000	21.079			
1520-96-3	Perylene-d12	1280000	23.365			

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:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164533BSD	SDG No.:	P4578
Lab Sample ID:	PB164533BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101428.D	1	10/30/24 08:50	10/31/24 12:09	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	11.4		4.00	10.0	ug/L
108-95-2	Phenol	53.6		0.93	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	47.2		1.20	5.00	ug/L
95-57-8	2-Chlorophenol	51.8		0.71	5.00	ug/L
95-48-7	2-Methylphenol	49.8		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	48.6		1.40	5.00	ug/L
98-86-2	Acetophenone	47.3		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	49.5		1.20	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	47.5		1.50	2.50	ug/L
67-72-1	Hexachloroethane	47.0		1.00	5.00	ug/L
98-95-3	Nitrobenzene	46.1		1.30	5.00	ug/L
78-59-1	Isophorone	47.1		1.10	5.00	ug/L
88-75-5	2-Nitrophenol	51.2		2.00	5.00	ug/L
105-67-9	2,4-Dimethylphenol	61.5		1.50	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	48.4		1.00	5.00	ug/L
120-83-2	2,4-Dichlorophenol	52.0		0.88	5.00	ug/L
91-20-3	Naphthalene	45.9		1.00	5.00	ug/L
106-47-8	4-Chloroaniline	34.8		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	45.9		1.30	5.00	ug/L
105-60-2	Caprolactam	46.3		1.70	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	46.6		0.84	5.00	ug/L
91-57-6	2-Methylnaphthalene	46.7		1.10	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	200	E	5.00	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	51.9		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	50.0		1.00	5.00	ug/L
92-52-4	1,1-Biphenyl	47.6		0.91	5.00	ug/L
91-58-7	2-Chloronaphthalene	46.7		0.97	5.00	ug/L
88-74-4	2-Nitroaniline	51.9		1.40	5.00	ug/L
131-11-3	Dimethylphthalate	48.3		0.93	5.00	ug/L

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	
Client Sample ID:	PB164533BSD	SDG No.:	P4578
Lab Sample ID:	PB164533BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101428.D	1	10/30/24 08:50	10/31/24 12:09	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
208-96-8	Acenaphthylene	51.8		1.00	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	46.7		1.20	5.00	ug/L
99-09-2	3-Nitroaniline	37.1		1.40	5.00	ug/L
83-32-9	Acenaphthene	48.0		0.81	5.00	ug/L
51-28-5	2,4-Dinitrophenol	84.6	E	6.40	10.0	ug/L
100-02-7	4-Nitrophenol	100	E	2.00	10.0	ug/L
132-64-9	Dibenzofuran	48.2		0.93	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	49.7		1.50	5.00	ug/L
84-66-2	Diethylphthalate	47.6		1.00	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	47.1		0.98	5.00	ug/L
86-73-7	Fluorene	47.4		0.96	5.00	ug/L
100-01-6	4-Nitroaniline	47.1		2.00	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	49.3		3.10	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	49.7		0.89	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	47.7		0.95	5.00	ug/L
118-74-1	Hexachlorobenzene	46.9		1.10	5.00	ug/L
1912-24-9	Atrazine	61.4		1.30	5.00	ug/L
87-86-5	Pentachlorophenol	110	E	1.90	10.0	ug/L
85-01-8	Phenanthrene	50.0		0.89	5.00	ug/L
120-12-7	Anthracene	52.9		1.10	5.00	ug/L
86-74-8	Carbazole	49.1		1.20	5.00	ug/L
84-74-2	Di-n-butylphthalate	51.5		1.50	5.00	ug/L
206-44-0	Fluoranthene	48.8		1.30	5.00	ug/L
129-00-0	Pyrene	46.5		1.10	5.00	ug/L
85-68-7	Butylbenzylphthalate	49.4		2.10	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	40.7		1.30	10.0	ug/L
56-55-3	Benzo(a)anthracene	49.9		0.94	5.00	ug/L
218-01-9	Chrysene	49.1		0.86	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	52.8		1.90	5.00	ug/L
117-84-0	Di-n-octyl phthalate	55.2		2.50	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	46.7		1.10	5.00	ug/L

Raw Data: **BE101428.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:	PB164533BSD	SDG No.:	P4578
Lab Sample ID:	PB164533BSD	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BE101428.D	1	10/30/24 08:50	10/31/24 12:09	PB164533

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
207-08-9	Benzo(k)fluoranthene	51.1		1.20	5.00	ug/L
50-32-8	Benzo(a)pyrene	52.5		1.70	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	51.1		1.00	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	51.0		1.20	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	45.6		1.20	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	48.2		1.10	5.00	ug/L
123-91-1	1,4-Dioxane	39.0		1.30	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	51.5		0.79	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	154		15 (10) - 110 (139)	103%	SPK: 150
13127-88-3	Phenol-d6	140		15 (10) - 110 (134)	93%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.8		30 (49) - 130 (133)	93%	SPK: 100
321-60-8	2-Fluorobiphenyl	94.2		30 (52) - 130 (132)	94%	SPK: 100
118-79-6	2,4,6-Tribromophenol	139		15 (44) - 110 (137)	93%	SPK: 150
1718-51-0	Terphenyl-d14	86.4		30 (48) - 130 (125)	86%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	113000	7.569			
1146-65-2	Naphthalene-d8	526000	10.337			
15067-26-2	Acenaphthene-d10	360000	14.179			
1517-22-2	Phenanthrene-d10	813000	16.917			
1719-03-5	Chrysene-d12	969000	21.077			
1520-96-3	Perylene-d12	1290000	23.363			

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: **BF140105.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	BP-F-18MS	SDG No.:	P4578
Lab Sample ID:	P4561-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.8
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
BF140105.D	1	10/28/24 09:00	10/29/24 12:02	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	290		130	230	ug/Kg
108-95-2	Phenol	1100		57.9	120	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1100		58.5	120	ug/Kg
95-57-8	2-Chlorophenol	1100		58.3	120	ug/Kg
95-48-7	2-Methylphenol	1100		56.3	120	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1100		63.5	120	ug/Kg
98-86-2	Acetophenone	1000		60.7	120	ug/Kg
65794-96-9	3+4-Methylphenols	1000		55.7	230	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1100		28.1	55.9	ug/Kg
67-72-1	Hexachloroethane	1100		58.0	120	ug/Kg
98-95-3	Nitrobenzene	1000		63.4	120	ug/Kg
78-59-1	Isophorone	1100		59.1	120	ug/Kg
88-75-5	2-Nitrophenol	1300		66.0	120	ug/Kg
105-67-9	2,4-Dimethylphenol	1200		65.1	120	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1100		59.9	120	ug/Kg
120-83-2	2,4-Dichlorophenol	1100		52.7	120	ug/Kg
91-20-3	Naphthalene	1000		57.7	120	ug/Kg
106-47-8	4-Chloroaniline	280		57.7	120	ug/Kg
87-68-3	Hexachlorobutadiene	1100		58.2	120	ug/Kg
105-60-2	Caprolactam	1100		60.6	230	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1100		54.1	120	ug/Kg
91-57-6	2-Methylnaphthalene	1100		57.6	120	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3900	E	110	230	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1100		49.9	120	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1100		51.7	120	ug/Kg
92-52-4	1,1-Biphenyl	1100		61.0	120	ug/Kg
91-58-7	2-Chloronaphthalene	1100		58.2	120	ug/Kg
88-74-4	2-Nitroaniline	1200		66.4	120	ug/Kg
131-11-3	Dimethylphthalate	1100		57.1	120	ug/Kg

Raw Data: **BF140105.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	BP-F-18MS	SDG No.:	P4578
Lab Sample ID:	P4561-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.8
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
BF140105.D	1	10/28/24 09:00	10/29/24 12:02	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1100		60.4	120	ug/Kg
606-20-2	2,6-Dinitrotoluene	1100		58.1	120	ug/Kg
99-09-2	3-Nitroaniline	600		62.3	120	ug/Kg
83-32-9	Acenaphthene	1200		56.6	120	ug/Kg
51-28-5	2,4-Dinitrophenol	3100	E	170	230	ug/Kg
100-02-7	4-Nitrophenol	2300	E	81.0	230	ug/Kg
132-64-9	Dibenzofuran	1100		59.0	120	ug/Kg
121-14-2	2,4-Dinitrotoluene	1200		60.2	120	ug/Kg
84-66-2	Diethylphthalate	1100		55.9	120	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1100		59.8	120	ug/Kg
86-73-7	Fluorene	1100		59.7	120	ug/Kg
100-01-6	4-Nitroaniline	1100		74.7	120	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		81.7	230	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1100		57.0	120	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1100		55.1	120	ug/Kg
118-74-1	Hexachlorobenzene	1100		59.4	120	ug/Kg
1912-24-9	Atrazine	1300		63.8	120	ug/Kg
87-86-5	Pentachlorophenol	2200	E	54.0	230	ug/Kg
85-01-8	Phenanthrene	1100		58.7	120	ug/Kg
120-12-7	Anthracene	1100		59.0	120	ug/Kg
86-74-8	Carbazole	1000		56.1	120	ug/Kg
84-74-2	Di-n-butylphthalate	1100		58.9	120	ug/Kg
206-44-0	Fluoranthene	940		57.1	120	ug/Kg
129-00-0	Pyrene	1000		58.0	120	ug/Kg
85-68-7	Butylbenzylphthalate	1300		67.6	120	ug/Kg
91-94-1	3,3-Dichlorobenzidine	690		68.9	230	ug/Kg
56-55-3	Benzo(a)anthracene	1100		56.4	120	ug/Kg
218-01-9	Chrysene	1100		55.5	120	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1500		63.6	120	ug/Kg
117-84-0	Di-n-octyl phthalate	1300		76.8	230	ug/Kg
205-99-2	Benzo(b)fluoranthene	1000		56.6	120	ug/Kg

Raw Data: **BF140105.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	BP-F-18MS	SDG No.:	P4578
Lab Sample ID:	P4561-05MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.8
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
BF140105.D	1	10/28/24 09:00	10/29/24 12:02	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1100		57.7	120	ug/Kg
50-32-8	Benzo(a)pyrene	1200		65.0	120	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	990		54.5	120	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	1000		56.7	120	ug/Kg
191-24-2	Benzo(g,h,i)perylene	830		55.9	120	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1100		60.6	120	ug/Kg
123-91-1	1,4-Dioxane	890		76.8	120	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1100		52.2	120	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	87.2		30 (18) - 130 (112)	58%	SPK: 150
13127-88-3	Phenol-d6	90.3		30 (15) - 130 (107)	60%	SPK: 150
4165-60-0	Nitrobenzene-d5	66.8		30 (18) - 130 (107)	67%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.7		30 (20) - 130 (109)	66%	SPK: 100
118-79-6	2,4,6-Tribromophenol	104		30 (10) - 130 (116)	70%	SPK: 150
1718-51-0	Terphenyl-d14	66.3		30 (10) - 130 (105)	66%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	119000	6.887			
1146-65-2	Naphthalene-d8	469000	8.169			
15067-26-2	Acenaphthene-d10	259000	9.928			
1517-22-2	Phenanthrene-d10	444000	11.416			
1719-03-5	Chrysene-d12	214000	14.051			
1520-96-3	Perylene-d12	270000	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

Raw Data: **BF140106.D**

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Report of Analysis

Client:	Portal Partners Tri-Venture	Date Collected:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	BP-F-18MSD	SDG No.:	P4578
Lab Sample ID:	P4561-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.8
Sample Wt/Vol:	50.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140106.D	1	10/28/24 09:00	10/29/24 12:30	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
100-52-7	Benzaldehyde	280		130	230	ug/Kg
108-95-2	Phenol	1100		57.9	120	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	1000		58.5	120	ug/Kg
95-57-8	2-Chlorophenol	1100		58.3	120	ug/Kg
95-48-7	2-Methylphenol	1000		56.3	120	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	1000		63.5	120	ug/Kg
98-86-2	Acetophenone	1000		60.7	120	ug/Kg
65794-96-9	3+4-Methylphenols	1000		55.8	230	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	1000		28.2	55.9	ug/Kg
67-72-1	Hexachloroethane	1100		58.0	120	ug/Kg
98-95-3	Nitrobenzene	1000		63.4	120	ug/Kg
78-59-1	Isophorone	1100		59.1	120	ug/Kg
88-75-5	2-Nitrophenol	1300		66.0	120	ug/Kg
105-67-9	2,4-Dimethylphenol	1200		65.1	120	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	1100		60.0	120	ug/Kg
120-83-2	2,4-Dichlorophenol	1100		52.8	120	ug/Kg
91-20-3	Naphthalene	1000		57.7	120	ug/Kg
106-47-8	4-Chloroaniline	270		57.7	120	ug/Kg
87-68-3	Hexachlorobutadiene	1100		58.2	120	ug/Kg
105-60-2	Caprolactam	1100		60.7	230	ug/Kg
59-50-7	4-Chloro-3-methylphenol	1100		54.2	120	ug/Kg
91-57-6	2-Methylnaphthalene	1100		57.6	120	ug/Kg
77-47-4	Hexachlorocyclopentadiene	3700	E	110	230	ug/Kg
88-06-2	2,4,6-Trichlorophenol	1100		49.9	120	ug/Kg
95-95-4	2,4,5-Trichlorophenol	1100		51.7	120	ug/Kg
92-52-4	1,1-Biphenyl	1100		61.1	120	ug/Kg
91-58-7	2-Chloronaphthalene	1100		58.2	120	ug/Kg
88-74-4	2-Nitroaniline	1200		66.4	120	ug/Kg
131-11-3	Dimethylphthalate	1100		57.1	120	ug/Kg

Raw Data: **BF140106.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:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	BP-F-18MSD	SDG No.:	P4578
Lab Sample ID:	P4561-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.8
Sample Wt/Vol:	50.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140106.D	1	10/28/24 09:00	10/29/24 12:30	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
208-96-8	Acenaphthylene	1100		60.4	120	ug/Kg
606-20-2	2,6-Dinitrotoluene	1100		58.1	120	ug/Kg
99-09-2	3-Nitroaniline	590		62.3	120	ug/Kg
83-32-9	Acenaphthene	1200		56.7	120	ug/Kg
51-28-5	2,4-Dinitrophenol	3100	E	170	230	ug/Kg
100-02-7	4-Nitrophenol	2300	E	81.1	230	ug/Kg
132-64-9	Dibenzofuran	1100		59.0	120	ug/Kg
121-14-2	2,4-Dinitrotoluene	1200		60.2	120	ug/Kg
84-66-2	Diethylphthalate	1100		56.0	120	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	1100		59.8	120	ug/Kg
86-73-7	Fluorene	1100		59.7	120	ug/Kg
100-01-6	4-Nitroaniline	1100		74.8	120	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	1700		81.8	230	ug/Kg
86-30-6	n-Nitrosodiphenylamine	1100		57.0	120	ug/Kg
101-55-3	4-Bromophenyl-phenylether	1100		55.1	120	ug/Kg
118-74-1	Hexachlorobenzene	1100		59.4	120	ug/Kg
1912-24-9	Atrazine	1300		63.9	120	ug/Kg
87-86-5	Pentachlorophenol	2100	E	54.0	230	ug/Kg
85-01-8	Phenanthrene	1100		58.7	120	ug/Kg
120-12-7	Anthracene	1100		59.0	120	ug/Kg
86-74-8	Carbazole	1000		56.1	120	ug/Kg
84-74-2	Di-n-butylphthalate	1100		58.9	120	ug/Kg
206-44-0	Fluoranthene	930		57.1	120	ug/Kg
129-00-0	Pyrene	1000		58.0	120	ug/Kg
85-68-7	Butylbenzylphthalate	1300		67.6	120	ug/Kg
91-94-1	3,3-Dichlorobenzidine	730		68.9	230	ug/Kg
56-55-3	Benzo(a)anthracene	1100		56.4	120	ug/Kg
218-01-9	Chrysene	1100		55.6	120	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	1400		63.6	120	ug/Kg
117-84-0	Di-n-octyl phthalate	1300		76.9	230	ug/Kg
205-99-2	Benzo(b)fluoranthene	1000		56.7	120	ug/Kg

Raw Data: **BF140106.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:	10/25/24
Project:	Amtrak Sawtooth Bridges 2024	Date Received:	10/25/24
Client Sample ID:	BP-F-18MSD	SDG No.:	P4578
Lab Sample ID:	P4561-05MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	85.8
Sample Wt/Vol:	50.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140106.D	1	10/28/24 09:00	10/29/24 12:30	PB164461

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
207-08-9	Benzo(k)fluoranthene	1100		57.7	120	ug/Kg
50-32-8	Benzo(a)pyrene	1200		65.0	120	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	970		54.6	120	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	970		56.7	120	ug/Kg
191-24-2	Benzo(g,h,i)perylene	810		56.0	120	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	1100		60.7	120	ug/Kg
123-91-1	1,4-Dioxane	860		76.9	120	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	1100		52.2	120	ug/Kg
SURROGATES						
367-12-4	2-Fluorophenol	84.4		30 (18) - 130 (112)	56%	SPK: 150
13127-88-3	Phenol-d6	87.1		30 (15) - 130 (107)	58%	SPK: 150
4165-60-0	Nitrobenzene-d5	66.6		30 (18) - 130 (107)	67%	SPK: 100
321-60-8	2-Fluorobiphenyl	64.8		30 (20) - 130 (109)	65%	SPK: 100
118-79-6	2,4,6-Tribromophenol	103		30 (10) - 130 (116)	69%	SPK: 150
1718-51-0	Terphenyl-d14	64.7		30 (10) - 130 (105)	65%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	122000	6.892			
1146-65-2	Naphthalene-d8	465000	8.169			
15067-26-2	Acenaphthene-d10	257000	9.927			
1517-22-2	Phenanthrene-d10	440000	11.416			
1719-03-5	Chrysene-d12	211000	14.051			
1520-96-3	Perylene-d12	271000	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_E

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE102824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue Oct 29 01:26:30 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BE101389.D 5 =BE101390.D 10 =BE101391.D 20 =BE101392.D 40 =BE101393.D 50 =BE101394.D 60 =BE101395.D 80 =BE101396.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.471	0.463	0.454	0.421	0.400	0.392	0.379	0.426	8.76
3)		Pyridine		1.064	1.123	1.255	1.196	1.252	1.287	1.252	1.204	6.80
4)		n-Nitrosodimet...		0.459	0.440	0.454	0.479	0.473	0.488	0.468	0.466	3.45
5)	S	2-Fluorophenol		1.134	1.073	1.142	1.153	1.143	1.187	1.155	1.141	3.03
6)		Aniline		1.059	1.262	1.529	1.346	1.301	1.224	0.767	1.213	19.92
7)	S	Phenol-d6		1.450	1.475	1.558	1.629	1.594	1.727	1.643	1.582	6.15
8)		2-Chlorophenol		1.335	1.305	1.371	1.403	1.369	1.426	1.371	1.369	2.94
9)		Benzaldehyde		0.793	0.849	0.861	0.807	0.678	0.595		0.764	13.74
10)	C	Phenol		1.488	1.456	1.766	1.826	1.797	1.914	1.769	1.717	10.16
11)		bis(2-Chloroet...		1.513	1.401	1.245	1.477	1.322	1.408	1.492	1.408	6.93
12)		1,3-Dichlorobe...		1.563	1.523	1.508	1.488	1.424	1.443	1.382	1.476	4.25
13)	C	1,4-Dichlorobe...		1.624	1.534	1.546	1.505	1.447	1.484	1.409	1.507	4.66
14)		1,2-Dichlorobe...		1.553	1.488	1.502	1.490	1.433	1.472	1.388	1.475	3.56
15)		Benzyl Alcohol		0.704	0.797	0.979	1.061	1.013	1.059	0.990	0.943	14.61
16)		2,2'-oxybis(1-...		1.840	1.857	1.816	1.794	1.711	1.746	1.642	1.772	4.33
17)		2-Methylphenol		1.038	1.078	1.142	1.217	1.181	1.263	1.215	1.162	6.96
18)		Hexachloroethane		0.497	0.486	0.492	0.497	0.495	0.496	0.481	0.492	1.28
19)	P	n-Nitroso-di-n...	0.807	0.900	1.060	1.081	1.150	1.115	1.185	1.102	1.050	12.35
20)		3+4-Methylphenols		1.364	1.500	1.580	1.685	1.646	1.778	1.674	1.604	8.53
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.427	0.447	0.467	0.481	0.449	0.462	0.446	0.454	3.79
23)	S	Nitrobenzene-d5		0.292	0.306	0.325	0.336	0.323	0.331	0.316	0.318	4.78
24)		Nitrobenzene		0.315	0.325	0.349	0.355	0.339	0.350	0.339	0.339	4.26
25)		Isophorone		0.533	0.601	0.624	0.665	0.639	0.655	0.632	0.621	7.13
26)	C	2-Nitrophenol		0.127	0.141	0.162	0.179	0.175	0.182	0.181	0.164	13.41
27)		2,4-Dimethylph...		0.196	0.194	0.207	0.215	0.206	0.215	0.211	0.206	4.19
28)		bis(2-Chloroet...		0.351	0.378	0.388	0.392	0.374	0.385	0.370	0.377	3.65
29)	C	2,4-Dichloroph...		0.257	0.268	0.285	0.297	0.287	0.305	0.297	0.285	6.00
30)		1,2,4-Trichlor...		0.325	0.311	0.315	0.314	0.304	0.307	0.299	0.311	2.71
31)		Naphthalene		1.092	1.040	1.039	1.045	0.982	0.999	0.936	1.019	5.00
32)		Benzoic acid			0.091	0.145	0.196	0.203	0.223	0.234	0.182	29.71
33)		4-Chloroaniline		0.321	0.355	0.373	0.398	0.364	0.365	0.305	0.354	8.87
34)	C	Hexachlorobuta...		0.193	0.185	0.187	0.187	0.179	0.180	0.176	0.184	3.26
35)		Caprolactam		0.077	0.093	0.109	0.119	0.118	0.126	0.124	0.109	16.48
36)	C	4-Chloro-3-met...		0.277	0.314	0.321	0.341	0.330	0.347	0.343	0.325	7.51
37)		2-Methylnaphth...		0.753	0.752	0.736	0.756	0.711	0.736	0.696	0.734	3.12
38)		1-Methylnaphth...		0.750	0.756	0.735	0.751	0.709	0.733	0.696	0.733	3.08

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE102824.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.522	0.493	0.515	0.512	0.491	0.499	0.481	0.502	2.96
41)	P	Hexachlorocycl...	0.153	0.150	0.179	0.177	0.173	0.168	0.162	0.166	6.85
42)	S	2,4,6-Tribromo...	0.329	0.341	0.358	0.366	0.355	0.359	0.346	0.351	3.59
43)	C	2,4,6-Trichlor...	0.310	0.325	0.352	0.369	0.353	0.360	0.353	0.346	6.01
44)		2,4,5-Trichlor...	0.356	0.372	0.401	0.415	0.402	0.418	0.411	0.396	5.93
45)	S	2-Fluorobiphenyl	1.359	1.275	1.283	1.226	1.114	1.072	0.938	1.181	12.39
46)		1,1'-Biphenyl	1.477	1.399	1.431	1.408	1.326	1.326	1.224	1.370	6.15
47)		2-Chloronaphth...	1.159	1.091	1.112	1.098	1.054	1.060	1.002	1.083	4.60
48)		2-Nitroaniline	0.214	0.243	0.295	0.318	0.318	0.329	0.322	0.291	15.45
49)		Acenaphthylene	1.613	1.605	1.656	1.677	1.586	1.597	1.473	1.601	4.07
50)		Dimethylphthalate	1.446	1.469	1.459	1.449	1.378	1.383	1.298	1.412	4.38
51)		2,6-Dinitrotol...	0.284	0.309	0.331	0.345	0.333	0.346	0.334	0.326	6.77
52)	C	Acenaphthene	1.120	1.080	1.073	1.075	1.016	1.017	0.936	1.045	5.79
53)		3-Nitroaniline	0.266	0.296	0.342	0.357	0.347	0.345	0.315	0.324	10.25
54)	P	2,4-Dinitrophenol		0.125	0.177	0.208	0.219	0.230	0.231	0.198	20.84
55)		Dibenzofuran	1.828	1.739	1.721	1.695	1.604	1.608	1.468	1.666	7.02
56)	P	4-Nitrophenol		0.219	0.291	0.311	0.318	0.324	0.318	0.297	13.34
57)		2,4-Dinitrotol...	0.344	0.407	0.454	0.481	0.480	0.495	0.481	0.449	12.18
58)		Fluorene	1.490	1.450	1.446	1.453	1.354	1.342	1.222	1.394	6.71
59)		2,3,4,6-Tetrac...	0.345	0.355	0.368	0.382	0.367	0.378	0.369	0.366	3.48
60)		Diethylphthalate	1.499	1.532	1.560	1.535	1.456	1.427	1.327	1.477	5.47
61)		4-Chlorophenyl...	0.737	0.713	0.705	0.707	0.676	0.673	0.631	0.692	5.05
62)		4-Nitroaniline	0.267	0.316	0.374	0.391	0.393	0.394	0.389	0.361	13.79
63)		Azobenzene	1.280	1.309	1.331	1.319	1.248	1.245	1.154	1.269	4.80
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.086	0.108	0.123	0.125	0.131	0.133	0.118	15.15
66)	c	n-Nitrosodiphe...	0.542	0.548	0.545	0.553	0.516	0.520	0.489	0.530	4.33
67)		4-Bromophenyl-...	0.211	0.207	0.209	0.215	0.208	0.215	0.209	0.210	1.48
68)		Hexachlorobenzene	0.283	0.272	0.274	0.283	0.271	0.278	0.269	0.276	2.01
69)		Atrazine	0.182	0.179	0.160	0.184	0.109			0.163	19.39
70)	C	Pentachlorophenol	0.116	0.137	0.159	0.173	0.172	0.177	0.177	0.159	14.86
71)		Phenanthrene	1.068	1.023	1.012	0.991	0.912	0.896	0.801	0.958	9.62
72)		Anthracene	1.002	0.972	0.997	0.979	0.909	0.893	0.793	0.935	8.08
73)		Carbazole	1.010	0.987	1.033	0.995	0.939	0.914	0.820	0.957	7.62
74)		Di-n-butylphth...	1.018	1.088	1.221	1.136	1.058	0.985	0.867	1.053	10.73
75)	C	Fluoranthene	1.320	1.268	1.306	1.199	1.102	1.043	0.903	1.163	13.27
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine	0.236	0.285	0.253	0.347	0.228	0.198	0.230	0.254	19.22
78)		Pyrene	1.176	1.206	1.184	1.174	1.052	1.016	0.890	1.100	10.69
79)	S	Terphenyl-d14	1.036	1.023	0.970	0.841	0.686	0.657		0.869	19.31
80)		Butylbenzylpht...	0.443	0.467	0.515	0.510	0.494	0.490	0.455	0.482	5.73
81)		Benzo(a)anthra...	1.277	1.238	1.243	1.174	1.047	1.010	0.879	1.124	13.18
82)		3,3'-Dichlorob...	0.404	0.438	0.470	0.481	0.450	0.444	0.396	0.440	7.11
83)		Chrysene	1.266	1.225	1.201	1.110	1.005	0.962	0.838	1.087	14.51
84)		Bis(2-ethylhex...	0.550	0.608	0.705	0.698	0.672	0.659	0.591	0.641	9.15
85)	c	Di-n-octyl pht...	0.987	1.057	1.209	1.137	1.053	1.032	0.883	1.051	9.92

Method Path : Z:\svoasrv\HPCHEM1\BNA_E\Methods\
Method File : 8270-BE102824.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.390	1.352	1.390	1.394	1.315	1.315	1.214	1.338	4.83
88)		Benzo(b)fluora...	1.076	1.113	1.100	1.110	1.023	1.000	0.873	1.042	8.29
89)		Benzo(k)fluora...	1.126	1.042	1.087	1.015	0.897	0.875	0.774	0.974	13.13
90)	C	Benzo(a)pyrene	0.935	0.933	0.961	0.966	0.899	0.890	0.796	0.912	6.37
91)		Dibenzo(a,h)an...	1.130	1.125	1.169	1.170	1.089	1.083	0.977	1.106	6.00
92)		Benzo(g,h,i)pe...	1.162	1.130	1.155	1.179	1.125	1.152	1.075	1.140	2.98

(#) = Out of Range

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.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_E Calibration Date/Time: 10/31/2024 10:18

Lab File ID: BE101425.D Init. Calib. Date(s): 10/28/2024 10/28/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:44 16:01

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.141	1.094		-4.1	
Benzaldehyde	0.764	0.817		6.9	
Phenol-d6	1.582	1.584		0.1	
Phenol	1.717	1.778		3.6	20.0
bis(2-Chloroethyl)ether	1.408	1.294		-8.1	
2-Chlorophenol	1.369	1.362		-0.5	
2-Methylphenol	1.162	1.178		1.4	
2,2-oxybis(1-Chloropropane)	1.772	1.839		3.8	
Acetophenone	0.454	0.457		0.7	
3+4-Methylphenols	1.604	1.682		4.9	
n-Nitroso-di-n-propylamine	1.050	1.180	0.050	12.4	
Nitrobenzene-d5	0.318	0.320		0.6	
Hexachloroethane	0.492	0.501		1.8	
Nitrobenzene	0.339	0.338		-0.3	
Isophorone	0.621	0.640		3.1	
2-Nitrophenol	0.164	0.173		5.5	20.0
2,4-Dimethylphenol	0.206	0.203		-1.5	
bis(2-Chloroethoxy)methane	0.377	0.389		3.2	
2,4-Dichlorophenol	0.285	0.290		1.8	20.0
Naphthalene	1.019	0.988		-3.0	
4-Chloroaniline	0.354	0.381		7.6	
Hexachlorobutadiene	0.184	0.184		0.0	20.0
Caprolactam	0.109	0.107		-1.8	
4-Chloro-3-methylphenol	0.325	0.324		-0.3	20.0
2-Methylnaphthalene	0.734	0.728		-0.8	
Hexachlorocyclopentadiene	0.166	0.178	0.050	7.2	
2,4,6-Trichlorophenol	0.346	0.354		2.3	20.0
2-Fluorobiphenyl	1.181	1.186		0.4	
2,4,5-Trichlorophenol	0.396	0.394		-0.5	
1,1-Biphenyl	1.370	1.351		-1.4	
2-Chloronaphthalene	1.083	1.070		-1.2	
2-Nitroaniline	0.291	0.305		4.8	
Dimethylphthalate	1.412	1.382		-2.1	
Acenaphthylene	1.601	1.590		-0.7	
2,6-Dinitrotoluene	0.326	0.322		-1.2	
3-Nitroaniline	0.324	0.337		4.0	
Acenaphthene	1.045	1.022		-2.2	20.0
2,4-Dinitrophenol	0.198	0.196	0.050	-1.0	
4-Nitrophenol	0.297	0.276	0.050	-7.1	

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_E Calibration Date/Time: 10/31/2024 10:18

Lab File ID: BE101425.D Init. Calib. Date(s): 10/28/2024 10/28/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 11:44 16:01

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dibenzofuran	1.666	1.622		-2.6	
2,4-Dinitrotoluene	0.449	0.453		0.9	
Diethylphthalate	1.477	1.447		-2.0	
4-Chlorophenyl-phenylether	0.692	0.689		-0.4	
Fluorene	1.394	1.372		-1.6	
4-Nitroaniline	0.361	0.361		0.0	
4,6-Dinitro-2-methylphenol	0.118	0.121		2.5	
n-Nitrosodiphenylamine	0.530	0.534		0.8	20.0
2,4,6-Tribromophenol	0.351	0.354		0.9	
4-Bromophenyl-phenylether	0.210	0.215		2.4	
Hexachlorobenzene	0.276	0.278		0.7	
Atrazine	0.163	0.162		-0.6	
Pentachlorophenol	0.159	0.171		7.5	20.0
Phenanthrene	0.958	0.952		-0.6	
Anthracene	0.935	0.944		1.0	
Carbazole	0.957	0.950		-0.7	
Di-n-butylphthalate	1.053	1.131		7.4	
Fluoranthene	1.163	1.164		0.1	20.0
Pyrene	1.100	1.121		1.9	
Terphenyl-d14	0.869	0.814		-6.3	
Butylbenzylphthalate	0.482	0.510		5.8	
3,3-Dichlorobenzidine	0.440	0.469		6.6	
Benzo(a)anthracene	1.124	1.135		1.0	
Chrysene	1.087	1.082		-0.5	
Bis(2-ethylhexyl)phthalate	0.641	0.711		10.9	
Di-n-octyl phthalate	1.051	1.156		10.0	20.0
Benzo(b)fluoranthene	1.042	1.047		0.5	
Benzo(k)fluoranthene	0.974	1.007		3.4	
Benzo(a)pyrene	0.912	0.929		1.9	20.0
Indeno(1,2,3-cd)pyrene	1.338	1.335		-0.2	
Dibenzo(a,h)anthracene	1.106	1.121		1.4	
Benzo(g,h,i)perylene	1.140	1.126		-1.2	
1,2,4,5-Tetrachlorobenzene	0.502	0.502		0.0	
1,4-Dioxane	0.426	0.376		-11.7	20.0
2,3,4,6-Tetrachlorophenol	0.366	0.367		0.3	

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.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/29/2024 09:37

Lab File ID: BF140100.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	1.231		-3.7	
Benzaldehyde	0.931	0.890		-4.4	
Phenol-d6	1.655	1.553		-6.2	
Phenol	1.706	1.612		-5.5	20.0
bis(2-Chloroethyl)ether	1.319	1.262		-4.3	
2-Chlorophenol	1.306	1.256		-3.8	
2-Methylphenol	1.114	1.060		-4.8	
2,2-oxybis(1-Chloropropane)	2.248	2.041		-9.2	
Acetophenone	0.490	0.474		-3.3	
3+4-Methylphenols	1.424	1.345		-5.5	
n-Nitroso-di-n-propylamine	1.004	0.914	0.050	-9.0	
Nitrobenzene-d5	0.361	0.382		5.8	
Hexachloroethane	0.534	0.535		0.2	
Nitrobenzene	0.396	0.400		1.0	
Isophorone	0.685	0.661		-3.5	
2-Nitrophenol	0.149	0.175		17.5	20.0
2,4-Dimethylphenol	0.249	0.232		-6.8	
bis(2-Chloroethoxy)methane	0.415	0.398		-4.1	
2,4-Dichlorophenol	0.283	0.280		-1.1	20.0
Naphthalene	1.031	1.010		-2.0	
4-Chloroaniline	0.352	0.331		-6.0	
Hexachlorobutadiene	0.197	0.203		3.0	20.0
Caprolactam	0.090	0.090		0.0	
4-Chloro-3-methylphenol	0.314	0.310		-1.3	20.0
2-Methylnaphthalene	0.632	0.616		-2.5	
Hexachlorocyclopentadiene	0.188	0.193	0.050	2.7	
2,4,6-Trichlorophenol	0.382	0.376		-1.6	20.0
2-Fluorobiphenyl	1.210	1.180		-2.5	
2,4,5-Trichlorophenol	0.394	0.411		4.3	
1,1-Biphenyl	1.392	1.364		-2.0	
2-Chloronaphthalene	1.121	1.108		-1.2	
2-Nitroaniline	0.343	0.385		12.2	
Dimethylphthalate	1.246	1.227		-1.5	
Acenaphthylene	1.621	1.605		-1.0	
2,6-Dinitrotoluene	0.270	0.295		9.3	
3-Nitroaniline	0.278	0.297		6.8	
Acenaphthene	1.049	1.061		1.1	20.0
2,4-Dinitrophenol	0.093	0.155	0.050	66.7	
4-Nitrophenol	0.214	0.236	0.050	10.3	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/29/2024 09:37

Lab File ID: BF140100.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	1.476		-1.9	
2,4-Dinitrotoluene	0.332	0.388		16.9	
Diethylphthalate	1.223	1.207		-1.3	
4-Chlorophenyl-phenylether	0.579	0.583		0.7	
Fluorene	1.146	1.132		-1.2	
4-Nitroaniline	0.263	0.293		11.4	
4,6-Dinitro-2-methylphenol	0.082	0.119		45.1	
n-Nitrosodiphenylamine	0.599	0.566		-5.5	20.0
2,4,6-Tribromophenol	0.187	0.203		8.6	
4-Bromophenyl-phenylether	0.206	0.207		0.5	
Hexachlorobenzene	0.232	0.232		0.0	
Atrazine	0.162	0.160		-1.2	
Pentachlorophenol	0.141	0.154		9.2	20.0
Phenanthrene	0.945	0.913		-3.4	
Anthracene	0.922	0.902		-2.2	
Carbazole	0.857	0.840		-2.0	
Di-n-butylphthalate	0.990	1.010		2.0	
Fluoranthene	0.955	0.943		-1.3	20.0
Pyrene	1.751	1.837		4.9	
Terphenyl-d14	1.227	1.284		4.6	
Butylbenzylphthalate	0.525	0.589		12.2	
3,3-Dichlorobenzidine	0.380	0.407		7.1	
Benzo(a)anthracene	1.302	1.341		3.0	
Chrysene	1.194	1.129		-5.4	
Bis(2-ethylhexyl)phthalate	0.589	0.667		13.2	
Di-n-octyl phthalate	1.071	1.049		-2.1	20.0
Benzo(b)fluoranthene	1.218	1.185		-2.7	
Benzo(k)fluoranthene	1.051	1.034		-1.6	
Benzo(a)pyrene	1.002	0.999		-0.3	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.323		2.8	
Dibenzo(a,h)anthracene	1.073	1.086		1.2	
Benzo(g,h,i)perylene	1.072	1.142		6.5	
1,2,4,5-Tetrachlorobenzene	0.540	0.549		1.7	
1,4-Dioxane	0.596	0.537		-9.9	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.316		2.3	

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.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/29/2024 16:01

Lab File ID: BF140113.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	1.205		-5.7	
Benzaldehyde	0.931	0.974		4.6	
Phenol-d6	1.655	1.537		-7.1	
Phenol	1.706	1.605		-5.9	20.0
bis(2-Chloroethyl)ether	1.319	1.266		-4.0	
2-Chlorophenol	1.306	1.245		-4.7	
2-Methylphenol	1.114	1.067		-4.2	
2,2-oxybis(1-Chloropropane)	2.248	2.083		-7.3	
Acetophenone	0.490	0.470		-4.1	
3+4-Methylphenols	1.424	1.318		-7.4	
n-Nitroso-di-n-propylamine	1.004	0.946	0.050	-5.8	
Nitrobenzene-d5	0.361	0.383		6.1	
Hexachloroethane	0.534	0.545		2.1	
Nitrobenzene	0.396	0.402		1.5	
Isophorone	0.685	0.680		-0.7	
2-Nitrophenol	0.149	0.181		21.5	20.0
2,4-Dimethylphenol	0.249	0.233		-6.4	
bis(2-Chloroethoxy)methane	0.415	0.408		-1.7	
2,4-Dichlorophenol	0.283	0.282		-0.4	20.0
Naphthalene	1.031	1.010		-2.0	
4-Chloroaniline	0.352	0.329		-6.5	
Hexachlorobutadiene	0.197	0.207		5.1	20.0
Caprolactam	0.090	0.091		1.1	
4-Chloro-3-methylphenol	0.314	0.318		1.3	20.0
2-Methylnaphthalene	0.632	0.625		-1.1	
Hexachlorocyclopentadiene	0.188	0.190	0.050	1.1	
2,4,6-Trichlorophenol	0.382	0.377		-1.3	20.0
2-Fluorobiphenyl	1.210	1.189		-1.7	
2,4,5-Trichlorophenol	0.394	0.416		5.6	
1,1-Biphenyl	1.392	1.372		-1.4	
2-Chloronaphthalene	1.121	1.104		-1.5	
2-Nitroaniline	0.343	0.381		11.1	
Dimethylphthalate	1.246	1.264		1.4	
Acenaphthylene	1.621	1.599		-1.4	
2,6-Dinitrotoluene	0.270	0.296		9.6	
3-Nitroaniline	0.278	0.292		5.0	
Acenaphthene	1.049	1.075		2.5	20.0
2,4-Dinitrophenol	0.093	0.159	0.050	71.0	
4-Nitrophenol	0.214	0.221	0.050	3.3	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/29/2024 16:01

Lab File ID: BF140113.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	1.480		-1.7	
2,4-Dinitrotoluene	0.332	0.389		17.2	
Diethylphthalate	1.223	1.260		3.0	
4-Chlorophenyl-phenylether	0.579	0.591		2.1	
Fluorene	1.146	1.142		-0.3	
4-Nitroaniline	0.263	0.285		8.4	
4,6-Dinitro-2-methylphenol	0.082	0.125		52.4	
n-Nitrosodiphenylamine	0.599	0.594		-0.8	20.0
2,4,6-Tribromophenol	0.187	0.205		9.6	
4-Bromophenyl-phenylether	0.206	0.220		6.8	
Hexachlorobenzene	0.232	0.242		4.3	
Atrazine	0.162	0.161		-0.6	
Pentachlorophenol	0.141	0.155		9.9	20.0
Phenanthrene	0.945	0.912		-3.5	
Anthracene	0.922	0.902		-2.2	
Carbazole	0.857	0.799		-6.8	
Di-n-butylphthalate	0.990	1.023		3.3	
Fluoranthene	0.955	0.899		-5.9	20.0
Pyrene	1.751	1.679		-4.1	
Terphenyl-d14	1.227	1.209		-1.5	
Butylbenzylphthalate	0.525	0.610		16.2	
3,3-Dichlorobenzidine	0.380	0.442		16.3	
Benzo(a)anthracene	1.302	1.290		-0.9	
Chrysene	1.194	1.183		-0.9	
Bis(2-ethylhexyl)phthalate	0.589	0.782		32.8	
Di-n-octyl phthalate	1.071	1.324		23.6	20.0
Benzo(b)fluoranthene	1.218	1.164		-4.4	
Benzo(k)fluoranthene	1.051	1.021		-2.9	
Benzo(a)pyrene	1.002	0.991		-1.1	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.296		0.7	
Dibenzo(a,h)anthracene	1.073	1.071		-0.2	
Benzo(g,h,i)perylene	1.072	1.091		1.8	
1,2,4,5-Tetrachlorobenzene	0.540	0.552		2.2	
1,4-Dioxane	0.596	0.528		-11.4	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.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/30/2024 12:50

Lab File ID: BF140152.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	1.251		-2.1	
Benzaldehyde	0.931	0.947		1.7	
Phenol-d6	1.655	1.614		-2.5	
Phenol	1.706	1.677		-1.7	20.0
bis(2-Chloroethyl)ether	1.319	1.299		-1.5	
2-Chlorophenol	1.306	1.283		-1.8	
2-Methylphenol	1.114	1.110		-0.4	
2,2-oxybis(1-Chloropropane)	2.248	2.246		-0.1	
Acetophenone	0.490	0.493		0.6	
3+4-Methylphenols	1.424	1.392		-2.2	
n-Nitroso-di-n-propylamine	1.004	0.987	0.050	-1.7	
Nitrobenzene-d5	0.361	0.403		11.6	
Hexachloroethane	0.534	0.572		7.1	
Nitrobenzene	0.396	0.423		6.8	
Isophorone	0.685	0.698		1.9	
2-Nitrophenol	0.149	0.185		24.2	20.0
2,4-Dimethylphenol	0.249	0.243		-2.4	
bis(2-Chloroethoxy)methane	0.415	0.422		1.7	
2,4-Dichlorophenol	0.283	0.293		3.5	20.0
Naphthalene	1.031	1.048		1.6	
4-Chloroaniline	0.352	0.314		-10.8	
Hexachlorobutadiene	0.197	0.215		9.1	20.0
Caprolactam	0.090	0.098		8.9	
4-Chloro-3-methylphenol	0.314	0.326		3.8	20.0
2-Methylnaphthalene	0.632	0.653		3.3	
Hexachlorocyclopentadiene	0.188	0.206	0.050	9.6	
2,4,6-Trichlorophenol	0.382	0.410		7.3	20.0
2-Fluorobiphenyl	1.210	1.261		4.2	
2,4,5-Trichlorophenol	0.394	0.412		4.6	
1,1-Biphenyl	1.392	1.428		2.6	
2-Chloronaphthalene	1.121	1.150		2.6	
2-Nitroaniline	0.343	0.410		19.5	
Dimethylphthalate	1.246	1.313		5.4	
Acenaphthylene	1.621	1.674		3.3	
2,6-Dinitrotoluene	0.270	0.307		13.7	
3-Nitroaniline	0.278	0.308		10.8	
Acenaphthene	1.049	1.117		6.5	20.0
2,4-Dinitrophenol	0.093	0.172	0.050	84.9	
4-Nitrophenol	0.214	0.253	0.050	18.2	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/30/2024 12:50

Lab File ID: BF140152.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	1.543		2.5	
2,4-Dinitrotoluene	0.332	0.413		24.4	
Diethylphthalate	1.223	1.315		7.5	
4-Chlorophenyl-phenylether	0.579	0.612		5.7	
Fluorene	1.146	1.194		4.2	
4-Nitroaniline	0.263	0.320		21.7	
4,6-Dinitro-2-methylphenol	0.082	0.127		54.9	
n-Nitrosodiphenylamine	0.599	0.585		-2.3	20.0
2,4,6-Tribromophenol	0.187	0.210		12.3	
4-Bromophenyl-phenylether	0.206	0.210		1.9	
Hexachlorobenzene	0.232	0.236		1.7	
Atrazine	0.162	0.168		3.7	
Pentachlorophenol	0.141	0.161		14.2	20.0
Phenanthrene	0.945	0.948		0.3	
Anthracene	0.922	0.924		0.2	
Carbazole	0.857	0.875		2.1	
Di-n-butylphthalate	0.990	1.081		9.2	
Fluoranthene	0.955	1.004		5.1	20.0
Pyrene	1.751	1.697		-3.1	
Terphenyl-d14	1.227	1.240		1.1	
Butylbenzylphthalate	0.525	0.670		27.6	
3,3-Dichlorobenzidine	0.380	0.419		10.3	
Benzo(a)anthracene	1.302	1.276		-2.0	
Chrysene	1.194	1.259		5.4	
Bis(2-ethylhexyl)phthalate	0.589	0.876		48.7	
Di-n-octyl phthalate	1.071	1.375		28.4	20.0
Benzo(b)fluoranthene	1.218	1.180		-3.1	
Benzo(k)fluoranthene	1.051	1.187		12.9	
Benzo(a)pyrene	1.002	1.048		4.6	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.326		3.0	
Dibenzo(a,h)anthracene	1.073	1.091		1.7	
Benzo(g,h,i)perylene	1.072	1.109		3.5	
1,2,4,5-Tetrachlorobenzene	0.540	0.571		5.7	
1,4-Dioxane	0.596	0.546		-8.4	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.334		8.1	

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.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/31/2024 09:22

Lab File ID: BF140176.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	1.261		-1.3	
Benzaldehyde	0.931	0.943		1.3	
Phenol-d6	1.655	1.625		-1.8	
Phenol	1.706	1.682		-1.4	20.0
bis(2-Chloroethyl)ether	1.319	1.315		-0.3	
2-Chlorophenol	1.306	1.312		0.5	
2-Methylphenol	1.114	1.121		0.6	
2,2-oxybis(1-Chloropropane)	2.248	2.100		-6.6	
Acetophenone	0.490	0.486		-0.8	
3+4-Methylphenols	1.424	1.392		-2.2	
n-Nitroso-di-n-propylamine	1.004	0.981	0.050	-2.3	
Nitrobenzene-d5	0.361	0.403		11.6	
Hexachloroethane	0.534	0.570		6.7	
Nitrobenzene	0.396	0.418		5.6	
Isophorone	0.685	0.693		1.2	
2-Nitrophenol	0.149	0.187		25.5	20.0
2,4-Dimethylphenol	0.249	0.239		-4.0	
bis(2-Chloroethoxy)methane	0.415	0.421		1.4	
2,4-Dichlorophenol	0.283	0.294		3.9	20.0
Naphthalene	1.031	1.044		1.3	
4-Chloroaniline	0.352	0.314		-10.8	
Hexachlorobutadiene	0.197	0.214		8.6	20.0
Caprolactam	0.090	0.096		6.7	
4-Chloro-3-methylphenol	0.314	0.333		6.1	20.0
2-Methylnaphthalene	0.632	0.660		4.4	
Hexachlorocyclopentadiene	0.188	0.185	0.050	-1.6	
2,4,6-Trichlorophenol	0.382	0.385		0.8	20.0
2-Fluorobiphenyl	1.210	1.231		1.7	
2,4,5-Trichlorophenol	0.394	0.424		7.6	
1,1-Biphenyl	1.392	1.403		0.8	
2-Chloronaphthalene	1.121	1.141		1.8	
2-Nitroaniline	0.343	0.398		16.0	
Dimethylphthalate	1.246	1.337		7.3	
Acenaphthylene	1.621	1.626		0.3	
2,6-Dinitrotoluene	0.270	0.305		13.0	
3-Nitroaniline	0.278	0.312		12.2	
Acenaphthene	1.049	1.115		6.3	20.0
2,4-Dinitrophenol	0.093	0.171	0.050	83.9	
4-Nitrophenol	0.214	0.249	0.050	16.4	

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 10/31/2024 09:22

Lab File ID: BF140176.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	1.519		0.9	
2,4-Dinitrotoluene	0.332	0.413		24.4	
Diethylphthalate	1.223	1.309		7.0	
4-Chlorophenyl-phenylether	0.579	0.613		5.9	
Fluorene	1.146	1.217		6.2	
4-Nitroaniline	0.263	0.326		24.0	
4,6-Dinitro-2-methylphenol	0.082	0.130		58.5	
n-Nitrosodiphenylamine	0.599	0.593		-1.0	20.0
2,4,6-Tribromophenol	0.187	0.215		15.0	
4-Bromophenyl-phenylether	0.206	0.214		3.9	
Hexachlorobenzene	0.232	0.237		2.2	
Atrazine	0.162	0.170		4.9	
Pentachlorophenol	0.141	0.157		11.3	20.0
Phenanthrene	0.945	0.952		0.7	
Anthracene	0.922	0.929		0.8	
Carbazole	0.857	0.884		3.2	
Di-n-butylphthalate	0.990	1.111		12.2	
Fluoranthene	0.955	1.036		8.5	20.0
Pyrene	1.751	1.635		-6.6	
Terphenyl-d14	1.227	1.195		-2.6	
Butylbenzylphthalate	0.525	0.676		28.8	
3,3-Dichlorobenzidine	0.380	0.430		13.2	
Benzo(a)anthracene	1.302	1.320		1.4	
Chrysene	1.194	1.225		2.6	
Bis(2-ethylhexyl)phthalate	0.589	0.900		52.8	
Di-n-octyl phthalate	1.071	1.388		29.6	20.0
Benzo(b)fluoranthene	1.218	1.432		17.6	
Benzo(k)fluoranthene	1.051	1.079		2.7	
Benzo(a)pyrene	1.002	1.042		4.0	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.176		-8.6	
Dibenzo(a,h)anthracene	1.073	0.977		-8.9	
Benzo(g,h,i)perylene	1.072	0.971		-9.4	
1,2,4,5-Tetrachlorobenzene	0.540	0.566		4.8	
1,4-Dioxane	0.596	0.510		-14.4	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.326		5.5	

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.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 11/01/2024 09:22

Lab File ID: BF140200.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	1.245		-2.7	
Benzaldehyde	0.931	0.962		3.3	
Phenol-d6	1.655	1.646		-0.5	
Phenol	1.706	1.707		0.1	20.0
bis(2-Chloroethyl)ether	1.319	1.336		1.3	
2-Chlorophenol	1.306	1.308		0.2	
2-Methylphenol	1.114	1.140		2.3	
2,2-oxybis(1-Chloropropane)	2.248	2.316		3.0	
Acetophenone	0.490	0.483		-1.4	
3+4-Methylphenols	1.424	1.392		-2.2	
n-Nitroso-di-n-propylamine	1.004	0.996	0.050	-0.8	
Nitrobenzene-d5	0.361	0.401		11.1	
Hexachloroethane	0.534	0.561		5.1	
Nitrobenzene	0.396	0.419		5.8	
Isophorone	0.685	0.699		2.0	
2-Nitrophenol	0.149	0.184		23.5	20.0
2,4-Dimethylphenol	0.249	0.239		-4.0	
bis(2-Chloroethoxy)methane	0.415	0.418		0.7	
2,4-Dichlorophenol	0.283	0.288		1.8	20.0
Naphthalene	1.031	1.035		0.4	
4-Chloroaniline	0.352	0.334		-5.1	
Hexachlorobutadiene	0.197	0.205		4.1	20.0
Caprolactam	0.090	0.100		11.1	
4-Chloro-3-methylphenol	0.314	0.326		3.8	20.0
2-Methylnaphthalene	0.632	0.643		1.7	
Hexachlorocyclopentadiene	0.188	0.186	0.050	-1.1	
2,4,6-Trichlorophenol	0.382	0.399		4.4	20.0
2-Fluorobiphenyl	1.210	1.197		-1.1	
2,4,5-Trichlorophenol	0.394	0.403		2.3	
1,1-Biphenyl	1.392	1.370		-1.6	
2-Chloronaphthalene	1.121	1.119		-0.2	
2-Nitroaniline	0.343	0.409		19.2	
Dimethylphthalate	1.246	1.300		4.3	
Acenaphthylene	1.621	1.616		-0.3	
2,6-Dinitrotoluene	0.270	0.305		13.0	
3-Nitroaniline	0.278	0.318		14.4	
Acenaphthene	1.049	1.094		4.3	20.0
2,4-Dinitrophenol	0.093	0.177	0.050	90.3	
4-Nitrophenol	0.214	0.257	0.050	20.1	

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: P4578 SAS No.: P4578 SDG No.: P4578

Instrument ID: BNA_F Calibration Date/Time: 11/01/2024 09:22

Lab File ID: BF140200.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	1.497		-0.5	
2,4-Dinitrotoluene	0.332	0.409		23.2	
Diethylphthalate	1.223	1.283		4.9	
4-Chlorophenyl-phenylether	0.579	0.592		2.2	
Fluorene	1.146	1.175		2.5	
4-Nitroaniline	0.263	0.334		27.0	
4,6-Dinitro-2-methylphenol	0.082	0.129		57.3	
n-Nitrosodiphenylamine	0.599	0.588		-1.8	20.0
2,4,6-Tribromophenol	0.187	0.211		12.8	
4-Bromophenyl-phenylether	0.206	0.207		0.5	
Hexachlorobenzene	0.232	0.231		-0.4	
Atrazine	0.162	0.166		2.5	
Pentachlorophenol	0.141	0.159		12.8	20.0
Phenanthrene	0.945	0.934		-1.2	
Anthracene	0.922	0.926		0.4	
Carbazole	0.857	0.877		2.3	
Di-n-butylphthalate	0.990	1.074		8.5	
Fluoranthene	0.955	1.027		7.5	20.0
Pyrene	1.751	1.637		-6.5	
Terphenyl-d14	1.227	1.172		-4.5	
Butylbenzylphthalate	0.525	0.656		25.0	
3,3-Dichlorobenzidine	0.380	0.424		11.6	
Benzo(a)anthracene	1.302	1.323		1.6	
Chrysene	1.194	1.237		3.6	
Bis(2-ethylhexyl)phthalate	0.589	0.869		47.5	
Di-n-octyl phthalate	1.071	1.344		25.5	20.0
Benzo(b)fluoranthene	1.218	1.286		5.6	
Benzo(k)fluoranthene	1.051	1.245		18.5	
Benzo(a)pyrene	1.002	1.068		6.6	20.0
Indeno(1,2,3-cd)pyrene	1.287	1.255		-2.5	
Dibenzo(a,h)anthracene	1.073	1.035		-3.5	
Benzo(g,h,i)perylene	1.072	1.055		-1.6	
1,2,4,5-Tetrachlorobenzene	0.540	0.549		1.7	
1,4-Dioxane	0.596	0.508		-14.8	20.0
2,3,4,6-Tetrachlorophenol	0.309	0.324		4.9	

All other compounds must meet a minimum RRF of 0.010.

SAMPLE RAW DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Quant Time: Nov 01 01:14:07 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

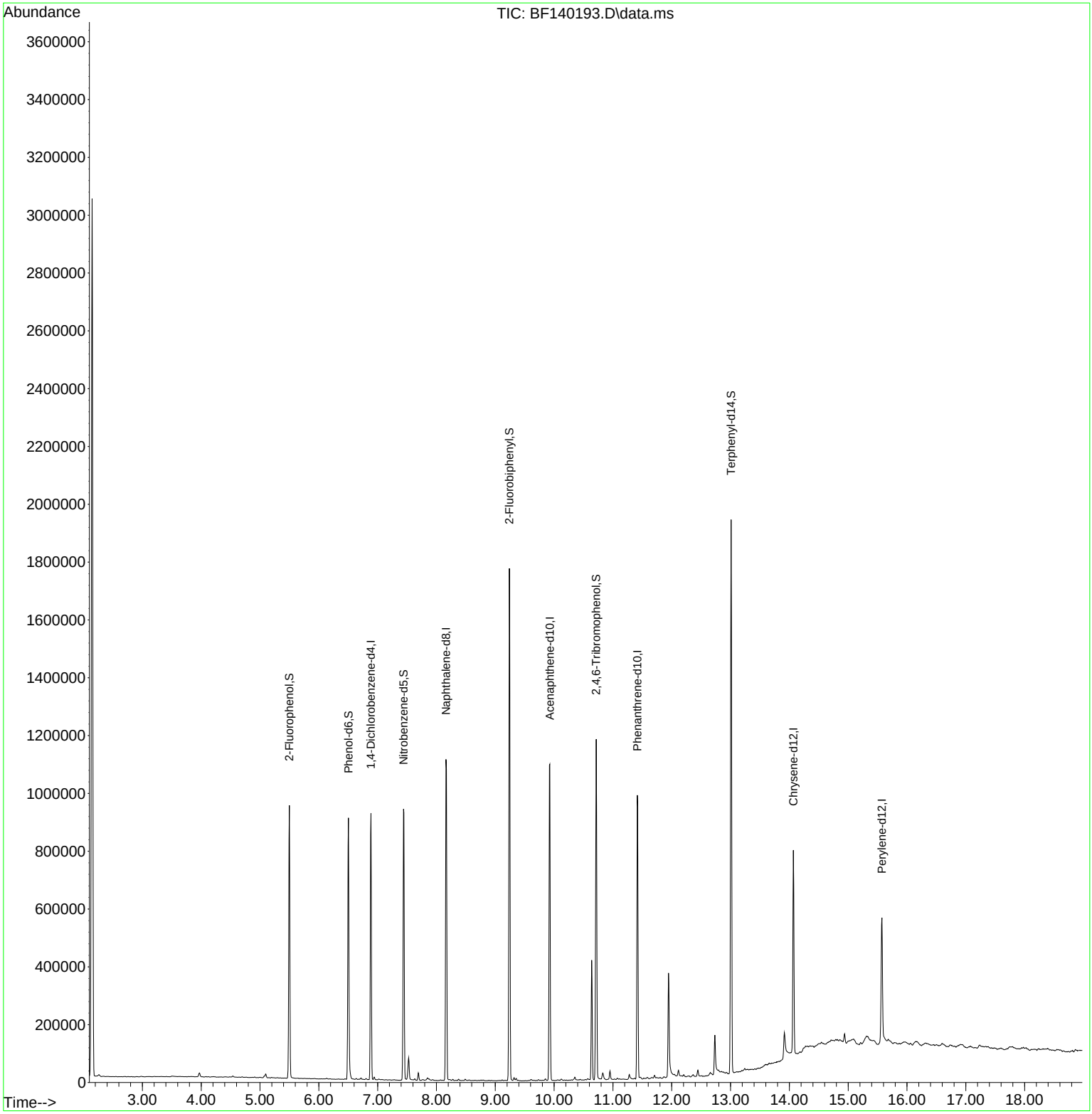
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	185491	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	676798	20.000	ng	-0.01
39) Acenaphthene-d10	9.927	164	334897	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	527934	20.000	ng	0.00
76) Chrysene-d12	14.068	240	330677	20.000	ng	0.02
86) Perylene-d12	15.574	264	264306	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	325476	27.469	ng	0.00
7) Phenol-d6	6.504	99	390383	25.439	ng	0.00
23) Nitrobenzene-d5	7.439	82	414358	33.932	ng	-0.01
42) 2,4,6-Tribromophenol	10.716	330	189605	60.528	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	758874	37.450	ng	-0.01
79) Terphenyl-d14	13.010	244	951394	46.882	ng	0.01
Target Compounds						Qvalue

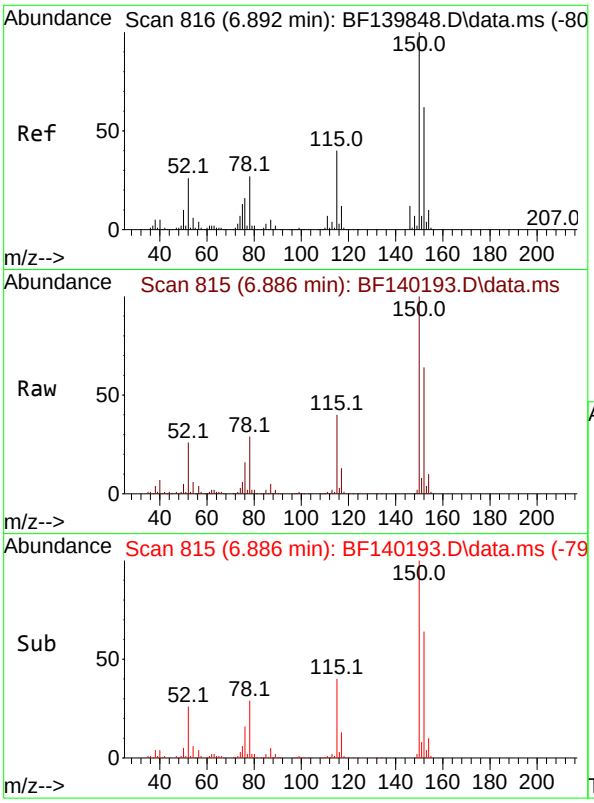
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Quant Time: Nov 01 01:14:07 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



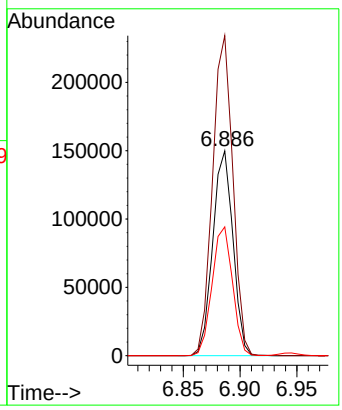


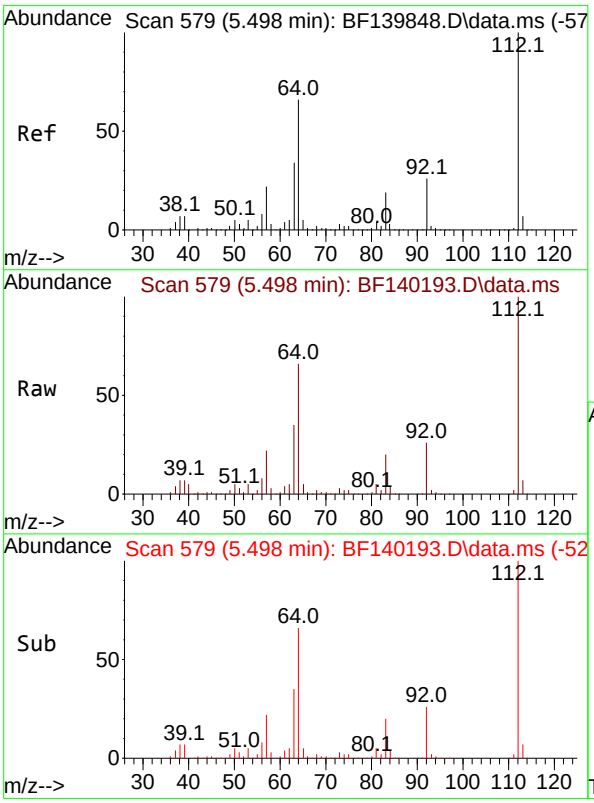
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Tgt Ion:152 Resp: 185491

Ion	Ratio	Lower	Upper
152	100		
150	156.3	130.2	195.2
115	62.9	51.4	77.2

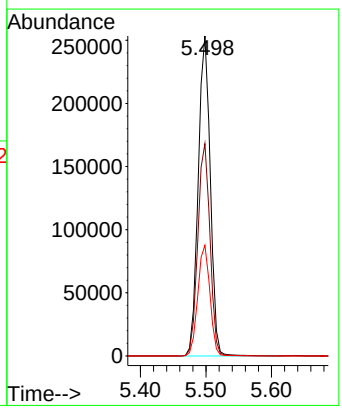


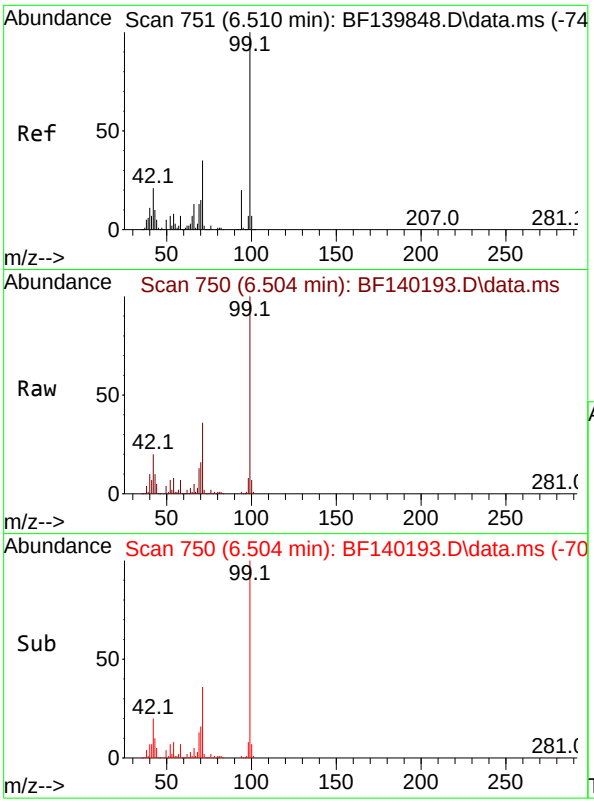


#5
2-Fluorophenol
Concen: 27.469 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.000 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Tgt Ion:112 Resp: 325476

Ion	Ratio	Lower	Upper
112	100		
64	66.3	53.0	79.6
63	34.6	27.0	40.4



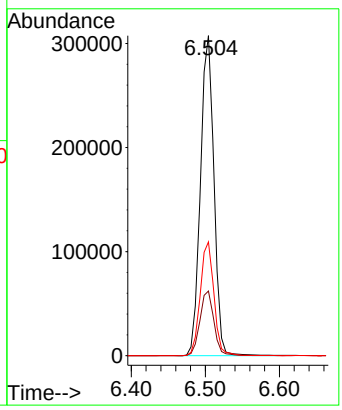


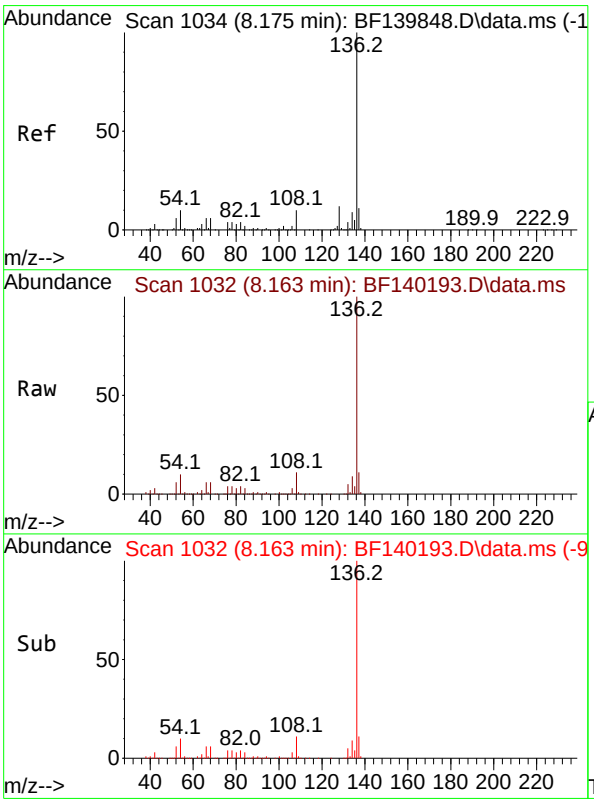
#7
Phenol-d6
Concen: 25.439 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Tgt Ion: 99 Resp: 390383

Ion	Ratio	Lower	Upper
99	100		
42	20.2	16.7	25.1
71	35.5	27.7	41.5

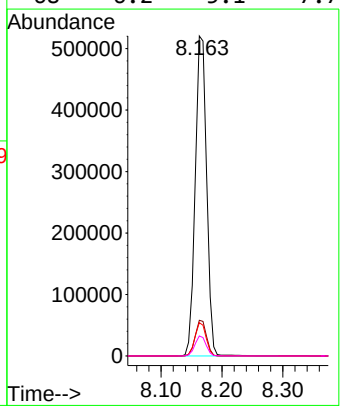


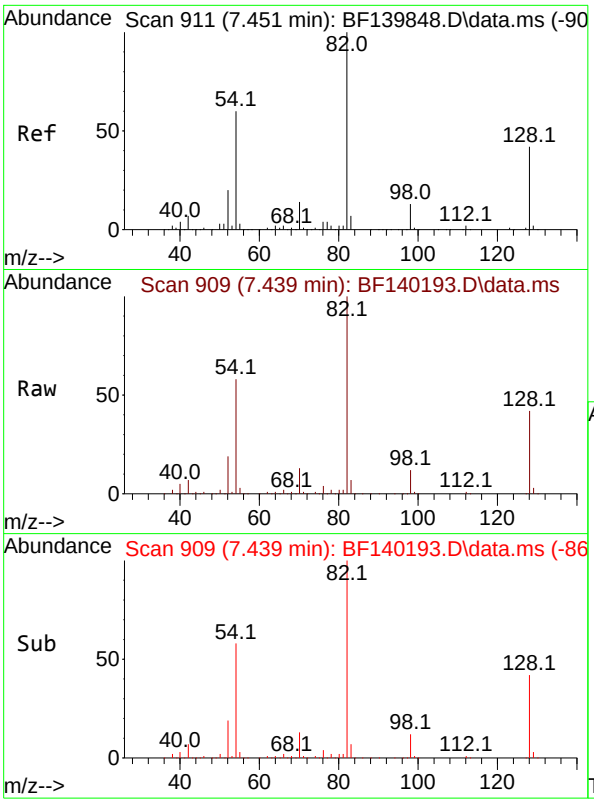


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Tgt Ion:136 Resp: 676798

Ion	Ratio	Lower	Upper
136	100		
137	11.2	8.6	12.8
54	10.4	8.4	12.6
68	6.2	5.1	7.7



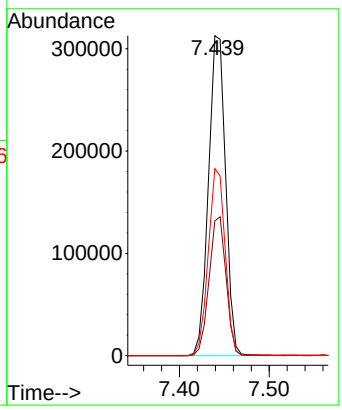


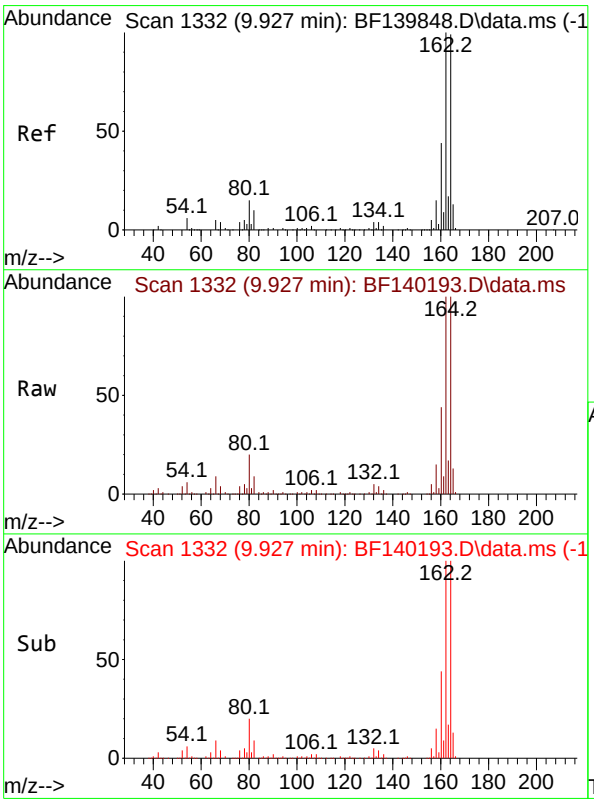
#23
Nitrobenzene-d5
Concen: 33.932 ng
RT: 7.439 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Tgt Ion: 82 Resp: 414358

Ion	Ratio	Lower	Upper
82	100		
128	42.1	33.4	50.0
54	58.4	47.8	71.8

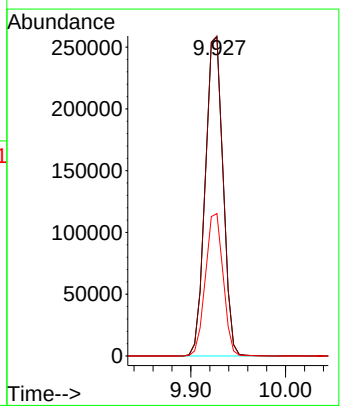


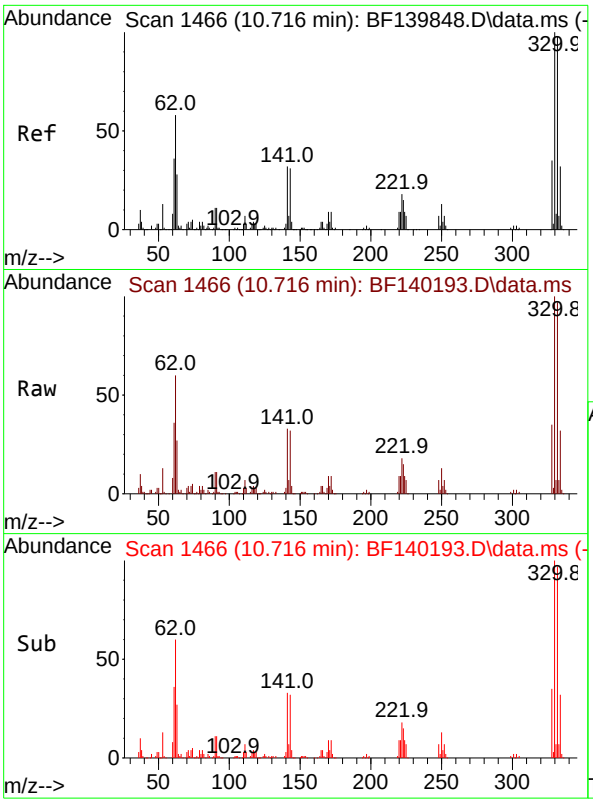


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.927 min Scan# 1332
Delta R.T. 0.000 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Tgt Ion:164 Resp: 334897

Ion	Ratio	Lower	Upper
164	100		
162	100.4	81.0	121.4
160	44.7	35.4	53.0



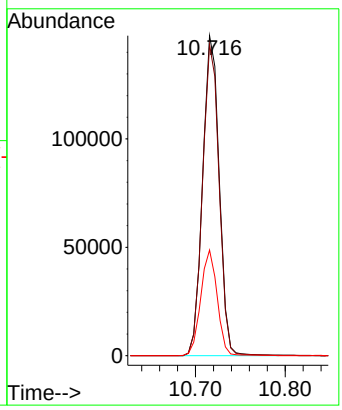


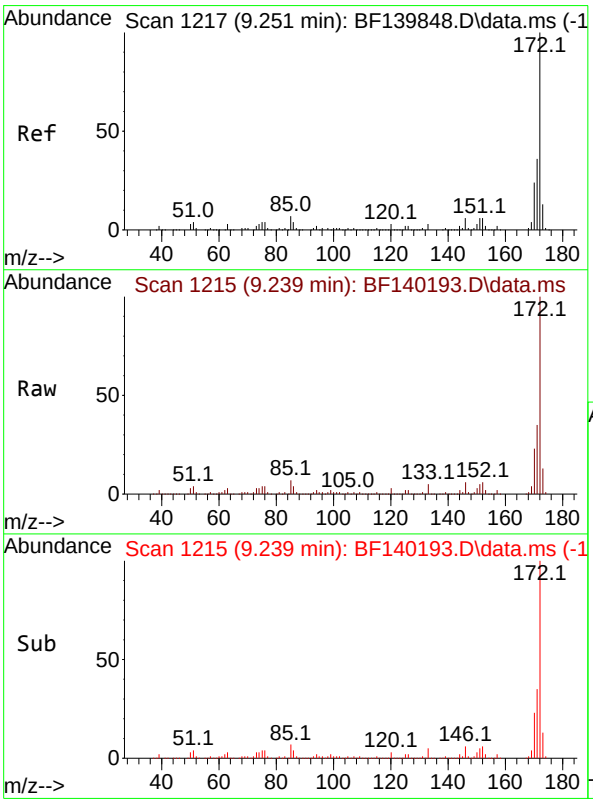
#42
2,4,6-Tribromophenol
Concen: 60.528 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Tgt Ion:330 Resp: 189605

Ion	Ratio	Lower	Upper
330	100		
332	97.3	78.1	117.1
141	32.8	26.6	39.8

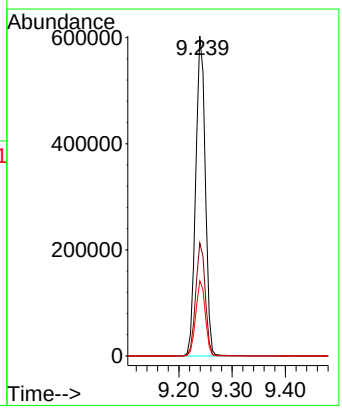


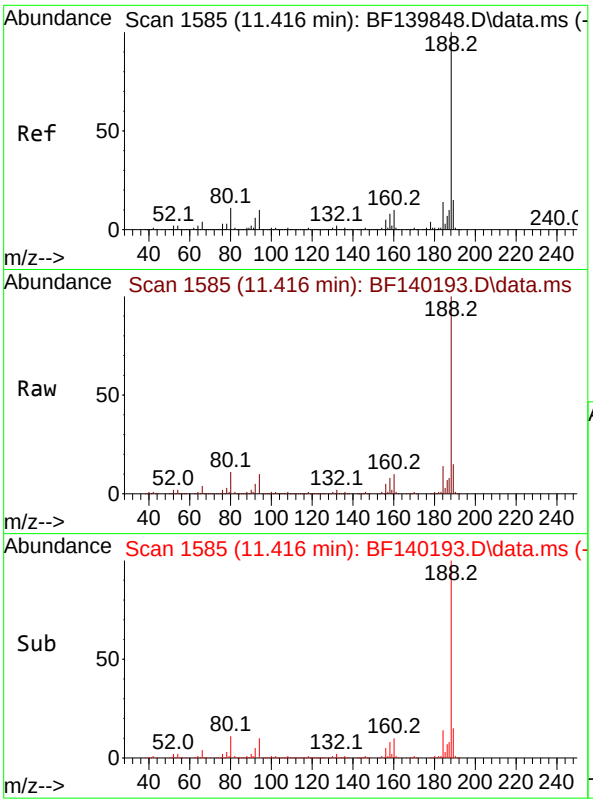


#45
2-Fluorobiphenyl
Concen: 37.450 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.012 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Tgt Ion:172 Resp: 758874

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.6	43.0
170	23.5	19.1	28.7



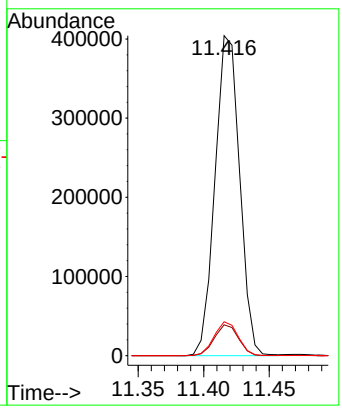


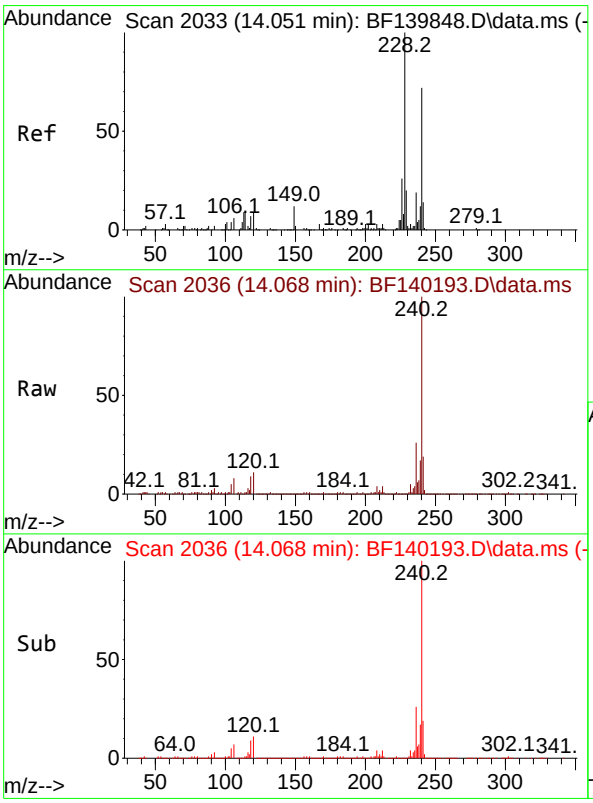
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Tgt Ion:188 Resp: 527934

Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.9	11.9
80	10.6	9.0	13.4

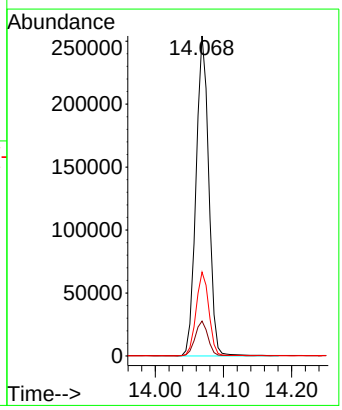


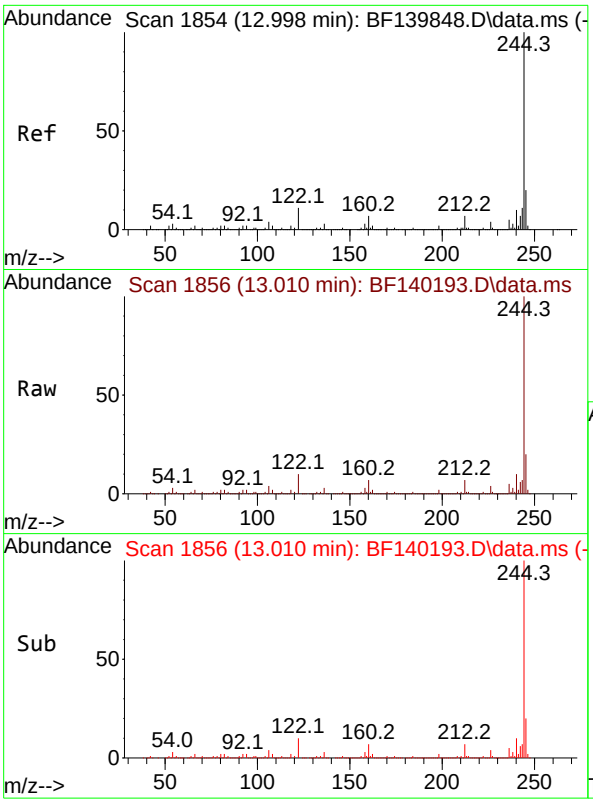


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2036
Delta R.T. 0.018 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Tgt Ion:240 Resp: 330677

Ion	Ratio	Lower	Upper
240	100		
120	10.9	9.4	14.2
236	26.2	20.9	31.3



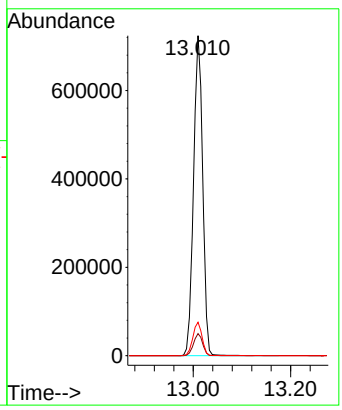


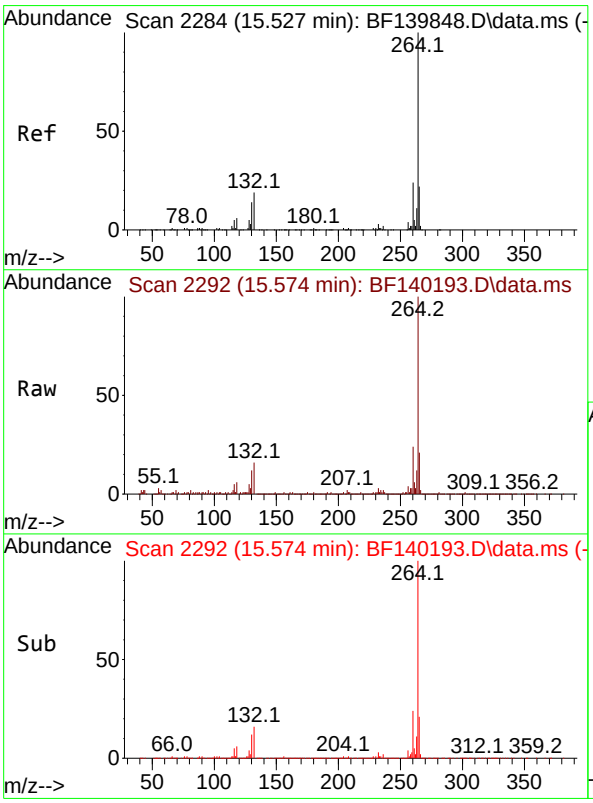
#79
Terphenyl-d14
Concen: 46.882 ng
RT: 13.010 min Scan# 1
Delta R.T. 0.012 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

Tgt Ion:244 Resp: 951394

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.7	8.5
122	10.4	8.6	13.0

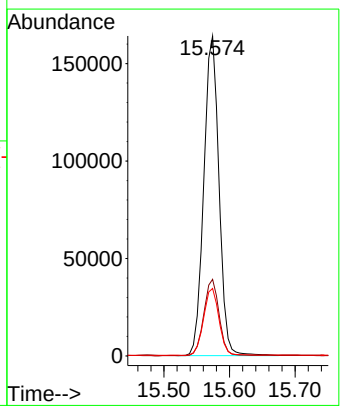




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.574 min Scan# 2292
Delta R.T. 0.047 min
Lab File: BF140193.D
Acq: 31 Oct 2024 17:01

Tgt Ion:264 Resp: 264306

Ion	Ratio	Lower	Upper
264	100		
260	23.9	19.4	29.2
265	21.1	17.4	26.0



Sample Results: **BF140193.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

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

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

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

Signal : TIC: BF140193.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.146	3	9	16	rVB	3034358	4921166	100.00%	21.015%
2	5.498	573	579	597	rVB	944260	1225499	24.90%	5.233%
3	6.504	744	750	762	rBV	904414	1191054	24.20%	5.086%
4	6.886	809	815	820	rBV	921283	1154782	23.47%	4.931%
5	7.439	904	909	915	rBV	936786	1239591	25.19%	5.294%
6	7.528	918	924	935	rVB	76298	122746	2.49%	0.524%
7	8.163	1027	1032	1038	rBV	1110026	1426623	28.99%	6.092%
8	9.239	1209	1215	1220	rBV	1772086	2206427	44.84%	9.422%
9	9.927	1326	1332	1337	rBV	1092709	1428250	29.02%	6.099%
10	10.639	1448	1453	1460	rVB	414072	509655	10.36%	2.176%
11	10.716	1460	1466	1477	rBV	1178290	1512797	30.74%	6.460%
12	11.416	1580	1585	1591	rBV	981765	1282663	26.06%	5.477%
13	11.945	1670	1675	1690	rBV	359491	563459	11.45%	2.406%
14	12.733	1804	1809	1817	rBV	137214	225628	4.58%	0.964%
15	13.010	1850	1856	1861	rBV	1916720	2515363	51.11%	10.742%
16	13.915	2005	2010	2025	rBV2	90737	261859	5.32%	1.118%
17	14.068	2031	2036	2043	rVB	703134	913391	18.56%	3.901%
18	15.574	2286	2292	2306	rBV	428057	716217	14.55%	3.059%

Sum of corrected areas: 23417170

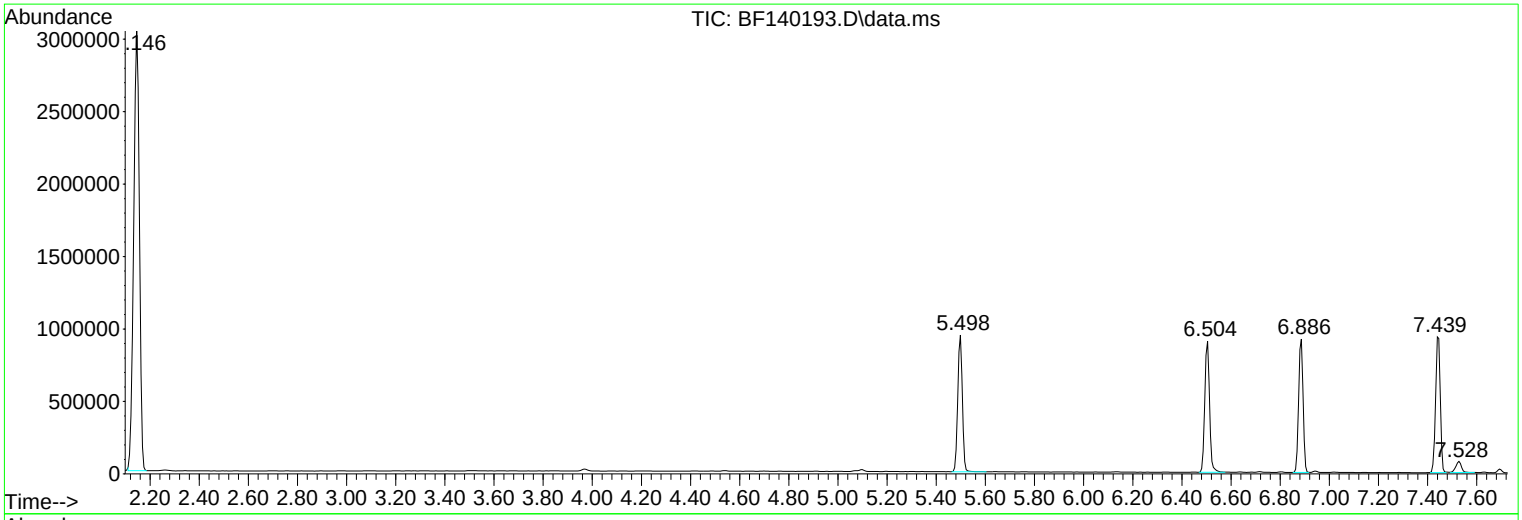
Sample Results: **BF140193.D**

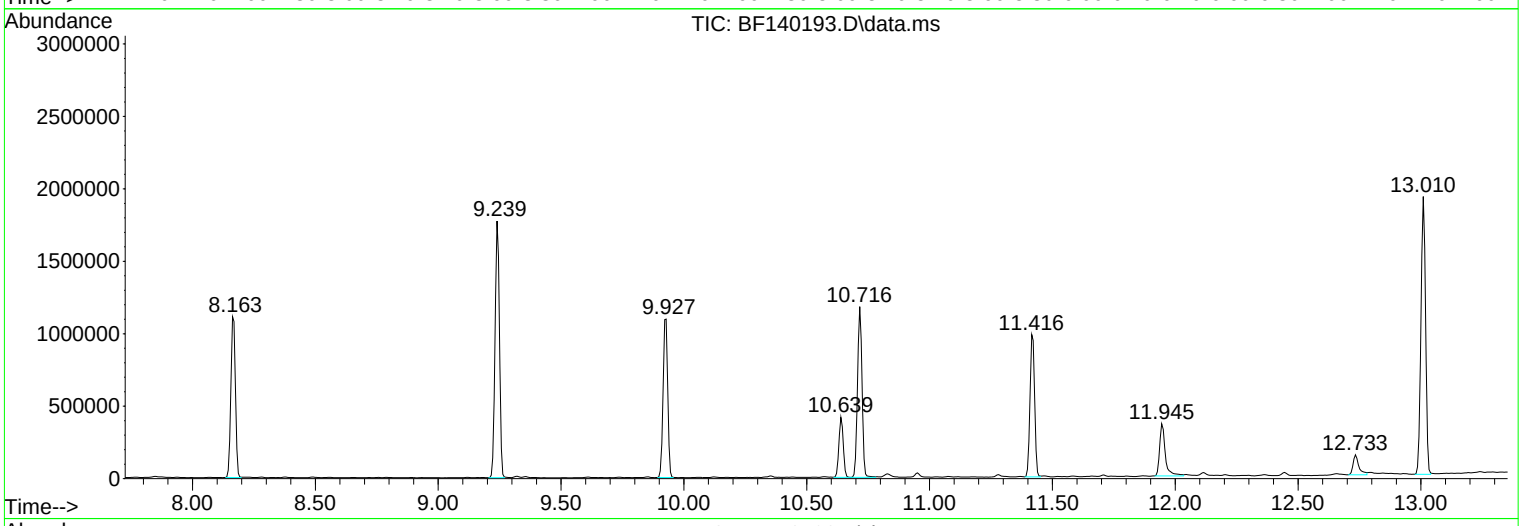
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

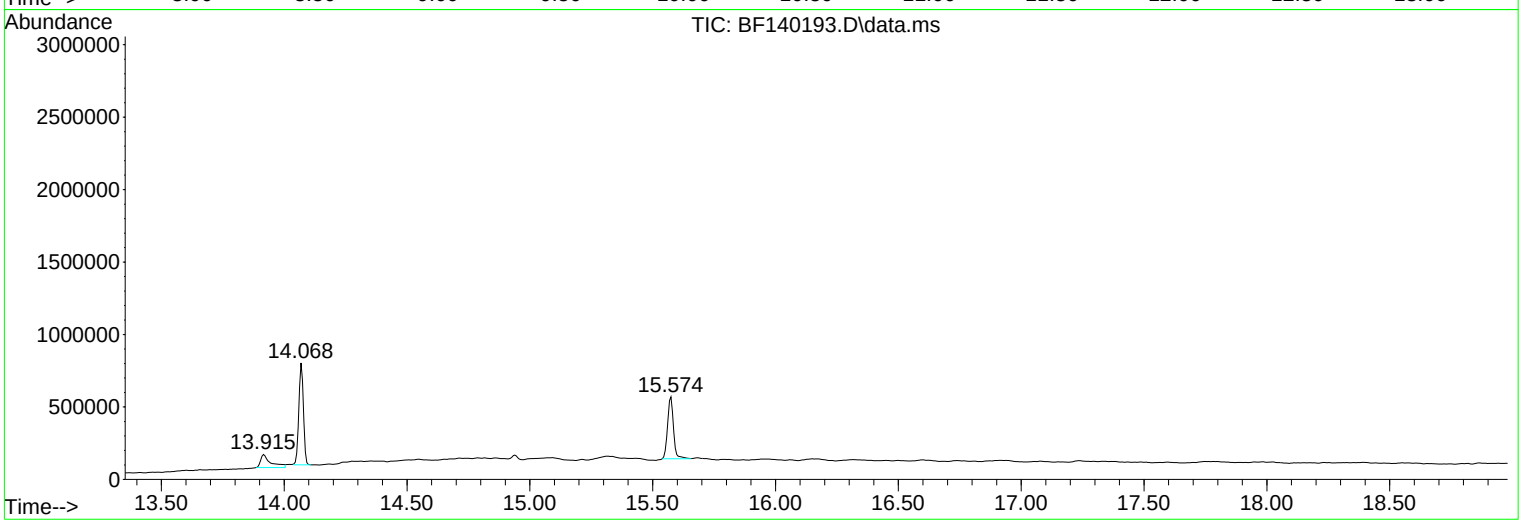
Instrument :
BNA_F
ClientSampleId :
WB-305-SW

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\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

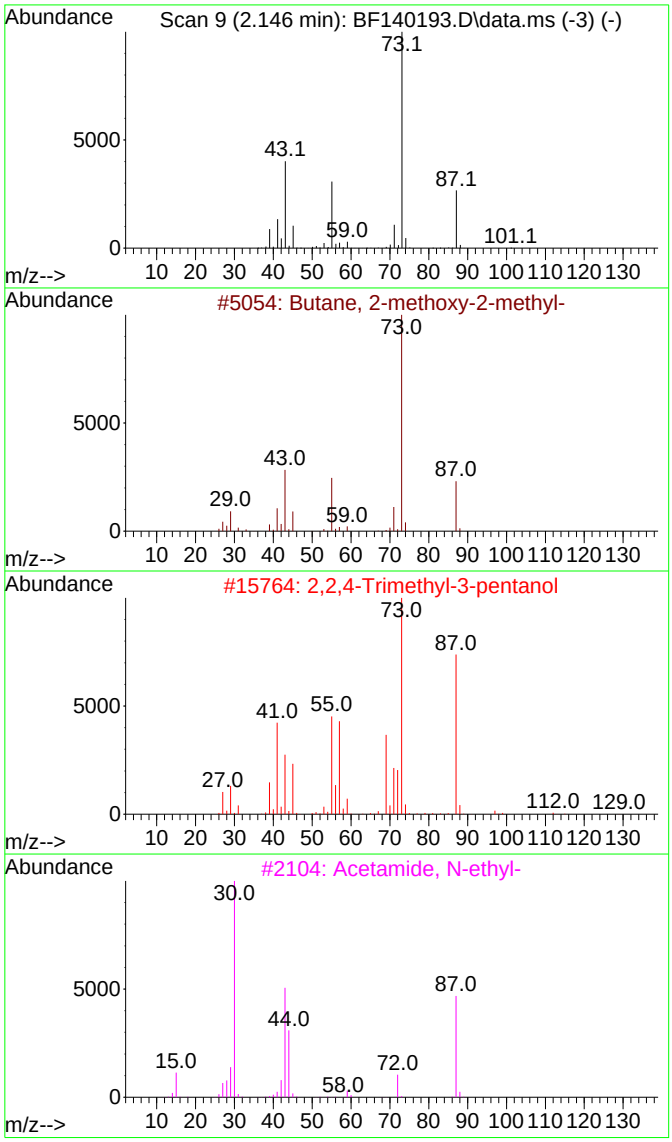
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

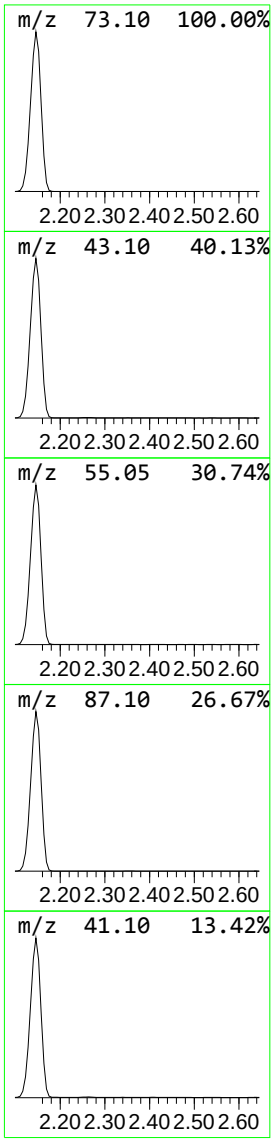
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.146	85.23 ng	4921170	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	39
3	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	27
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\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

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

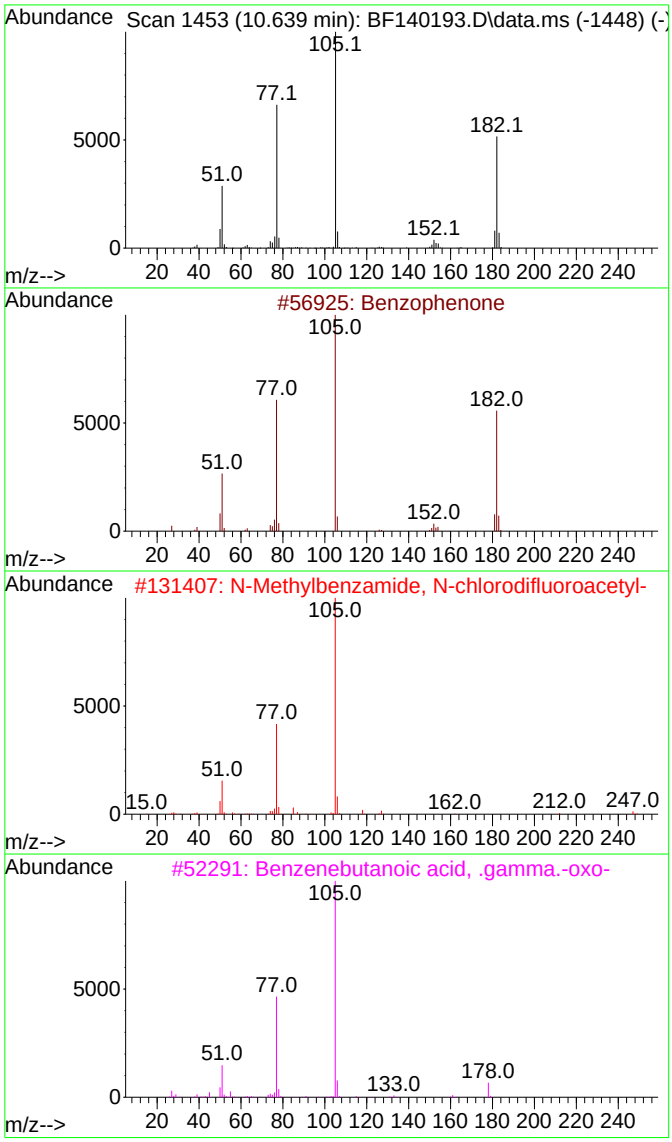
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

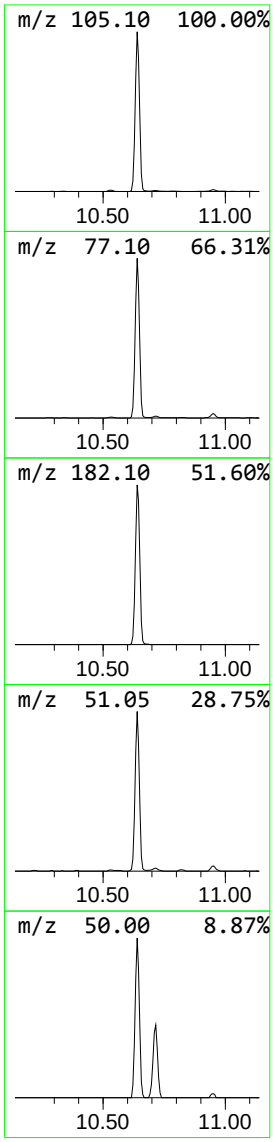
****

Peak Number 2 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.639	7.14 ng	509655	Acenaphthene-d10	9.927

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	N-Methylbenzamide, N-chlorodiflu...	247	C10H8ClF2NO2	1000446-98-2	47
3	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47
4	Vinyl benzoate	148	C9H8O2	000769-78-8	47
5	N-Methoxy-N-methylbenzamide	165	C9H11NO2	006919-61-5	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

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

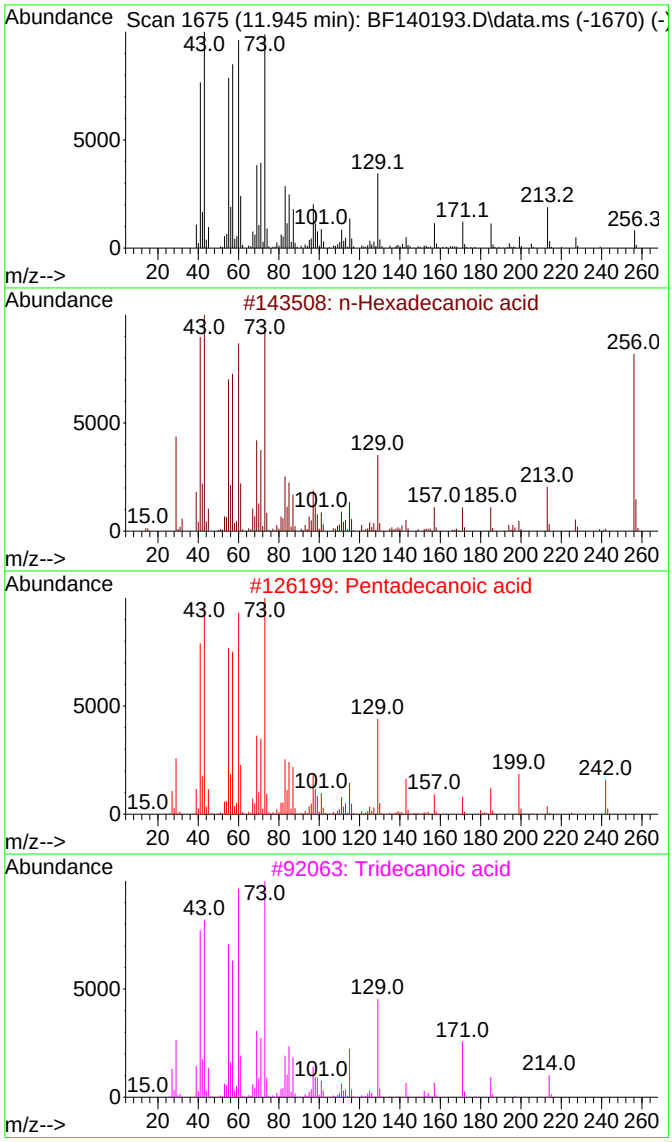
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

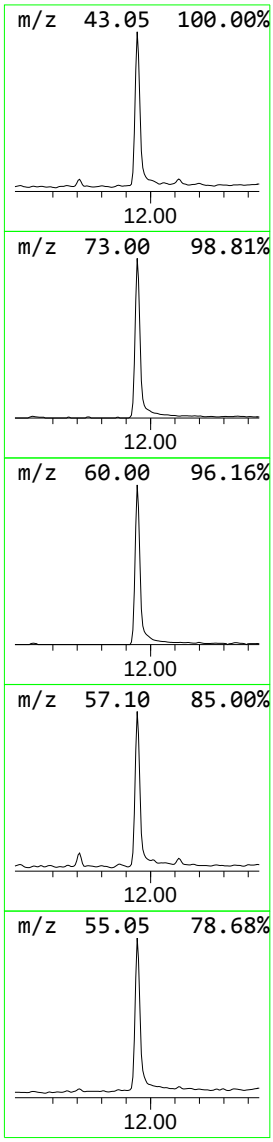
****

Peak Number 3 n-Hexadecanoic acid Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	8.79 ng	563459	Phenanthrene-d10	11.416

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	90
3	Tridecanoic acid	214	C13H26O2	000638-53-9	89
4	8-Methylnonanoic acid	172	C10H20O2	005963-14-4	78
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	74





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

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

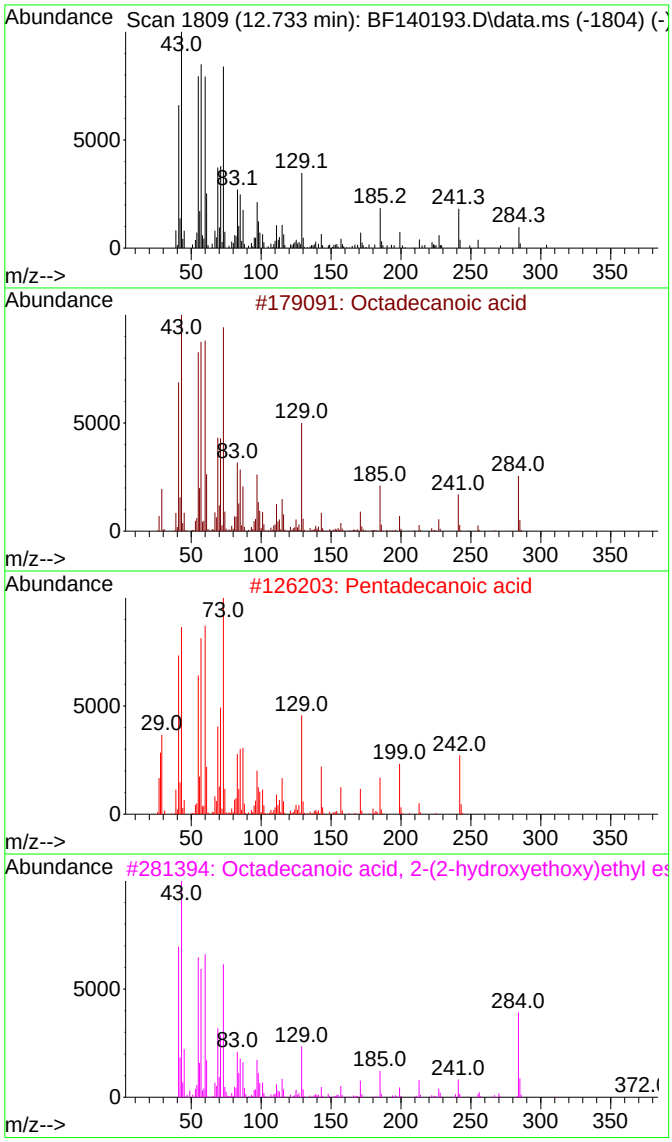
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

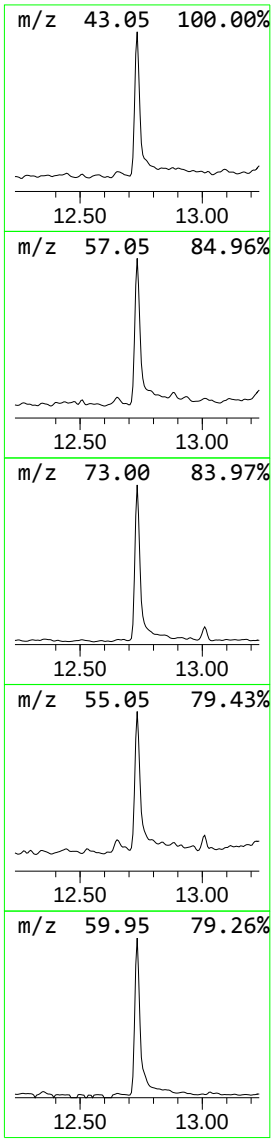
****

Peak Number 4 Octadecanoic acid Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.733	3.52 ng	225628	Phenanthrene-d10	11.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	99
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	89
3	Octadecanoic acid, 2-(2-hydroxye...	372	C22H44O4	000106-11-6	87
4	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	74
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	68





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

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

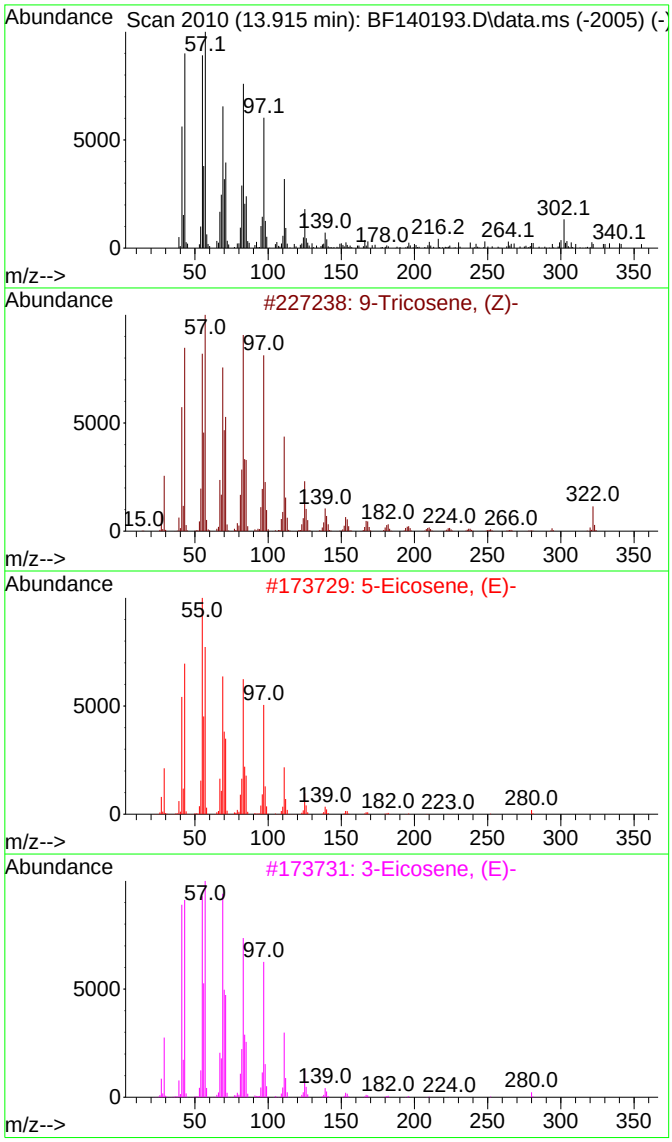
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

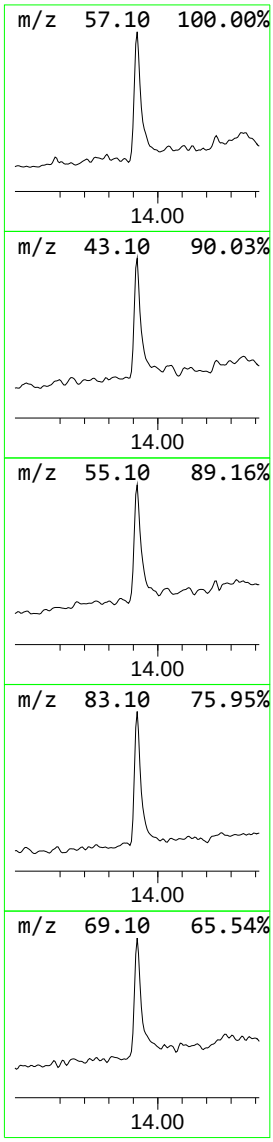
****

Peak Number 5 9-Tricosene, (Z)- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.915	5.73 ng	261859	Chrysene-d12	14.068

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	9-Tricosene, (Z)-	322	C23H46	027519-02-4	98
2	5-Eicosene, (E)-	280	C20H40	074685-30-6	97
3	3-Eicosene, (E)-	280	C20H40	074685-33-9	96
4	1-Tricosene	322	C23H46	018835-32-0	95
5	Henicos-1-ene	294	C21H42	001599-68-4	95





Sample Results: **BF140193.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103124\
Data File : BF140193.D
Acq On : 31 Oct 2024 17:01
Operator : RC/JU
Sample : P4578-01
Misc :
ALS Vial : 19 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW

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...	2.146	85.2	ng	4921170	1	6.886	1154780	20.0
Benzophenone	10.639	7.1	ng	509655	3	9.927	1428250	20.0
n-Hexadecanoic ...	11.945	8.8	ng	563459	4	11.416	1282660	20.0
Octadecanoic acid	12.733	3.5	ng	225628	4	11.416	1282660	20.0
9-Tricosene, (Z)-	13.915	5.7	ng	261859	5	14.068	913391	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140206.D
Acq On : 01 Nov 2024 12:07
Operator : RC/JU
Sample : P4578-01RE
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SWRE

Quant Time: Nov 01 12:39:39 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

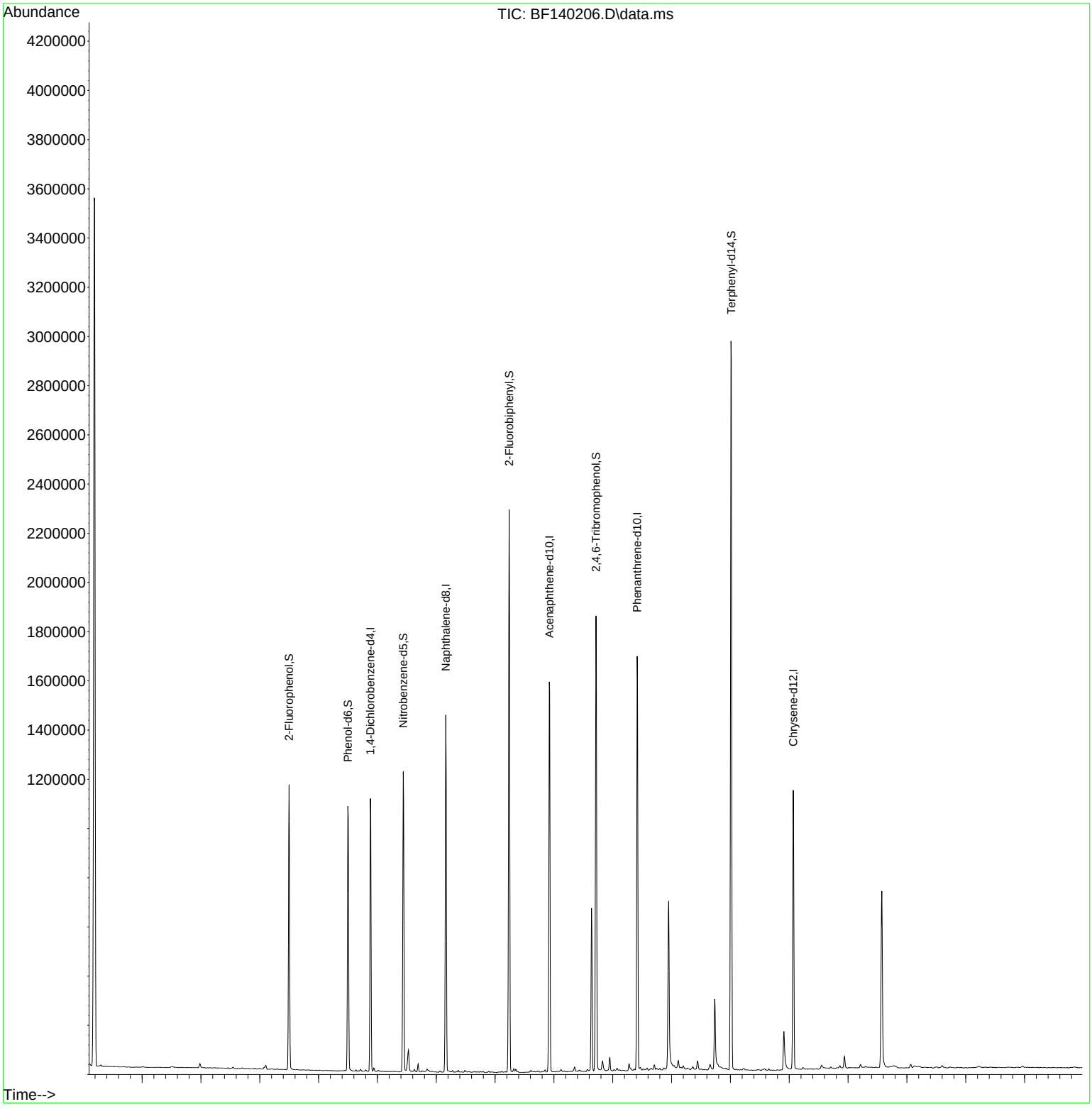
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	221542	20.000	ng	-0.01
21) Naphthalene-d8	8.163	136	874676	20.000	ng	-0.01
39) Acenaphthene-d10	9.922	164	496865	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	893182	20.000	ng	0.00
76) Chrysene-d12	14.068	240	535712	20.000	ng	0.02
86) Perylene-d12	15.574	264	445221	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	397857	28.114	ng	0.00
7) Phenol-d6	6.498	99	483636	26.387	ng	-0.01
23) Nitrobenzene-d5	7.439	82	545652	34.575	ng	-0.01
42) 2,4,6-Tribromophenol	10.716	330	315662	67.921	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1027093	34.164	ng	-0.01
79) Terphenyl-d14	13.016	244	1571178	47.791	ng	0.02
Target Compounds						Qvalue

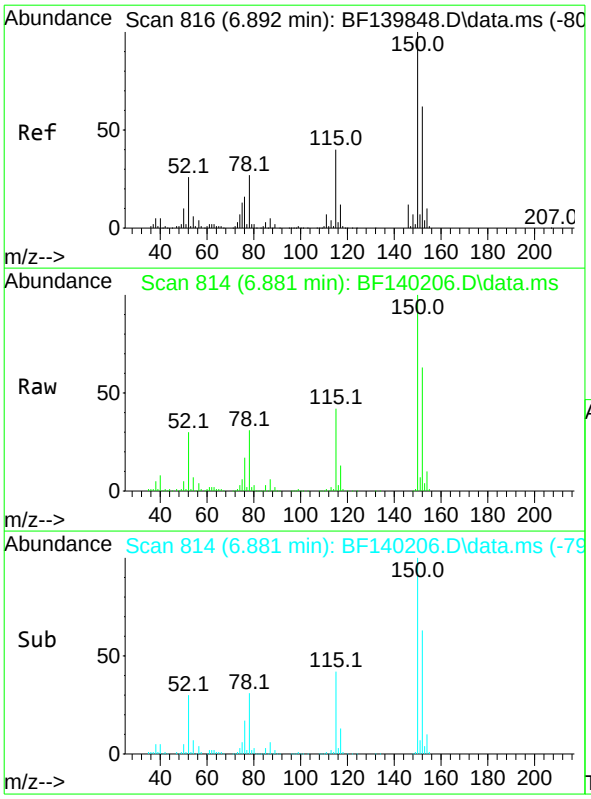
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140206.D
Acq On : 01 Nov 2024 12:07
Operator : RC/JU
Sample : P4578-01RE
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SWRE

Quant Time: Nov 01 12:39:39 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



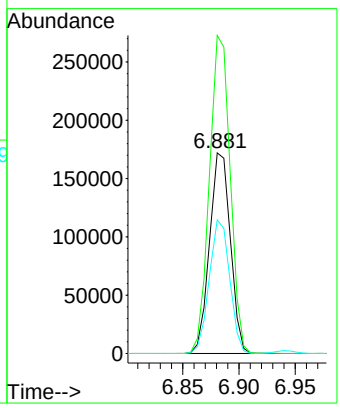


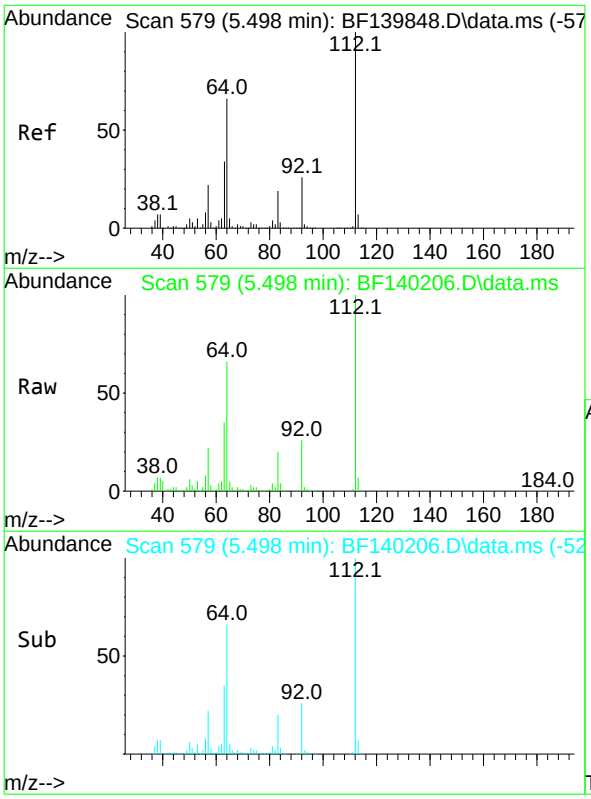
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.011 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Instrument :
BNA_F
ClientSampleId :
WB-305-SWRE

Tgt Ion:152 Resp: 221542

Ion	Ratio	Lower	Upper
152	100		
150	158.6	130.2	195.2
115	66.6	51.4	77.2

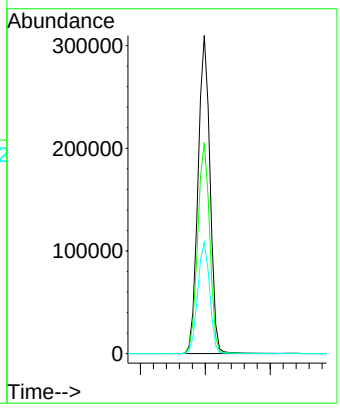




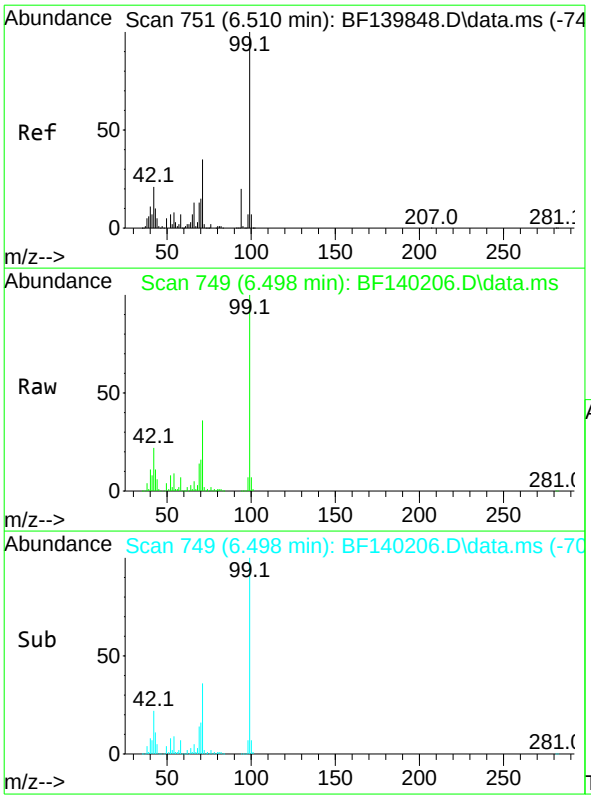
#5
2-Fluorophenol
Concen: 28.114 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.000 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Tgt Ion:112 Resp: 397857

Ion	Ratio	Lower	Upper
112	100		
64	66.3	53.0	79.6
63	35.0	27.0	40.4



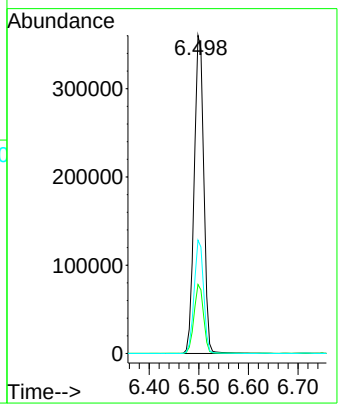
Instrument :
BNA_F
ClientSampleId :
WB-305-SWRE

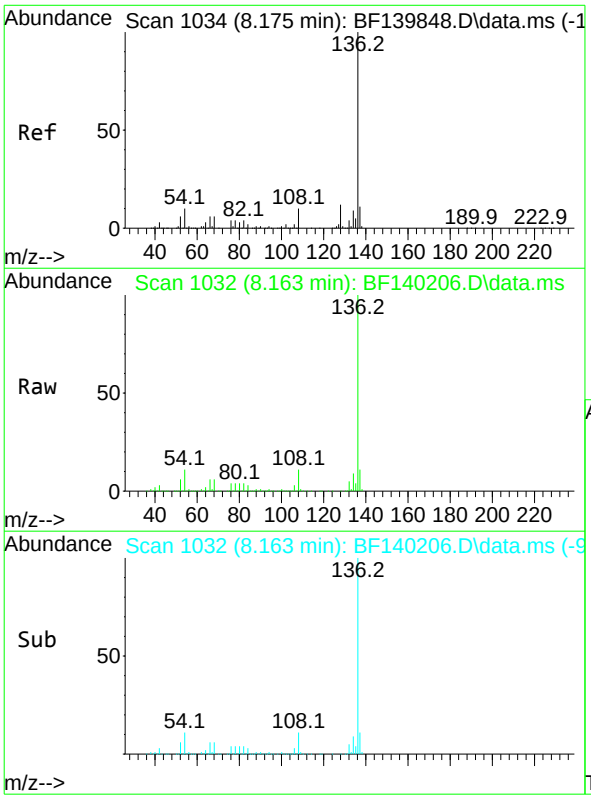


#7
Phenol-d6
Concen: 26.387 ng
RT: 6.498 min Scan# 74
Delta R.T. -0.012 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Tgt Ion: 99 Resp: 483636

Ion	Ratio	Lower	Upper
99	100		
42	21.7	16.7	25.1
71	35.6	27.7	41.5

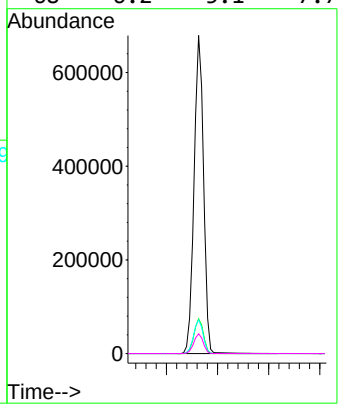


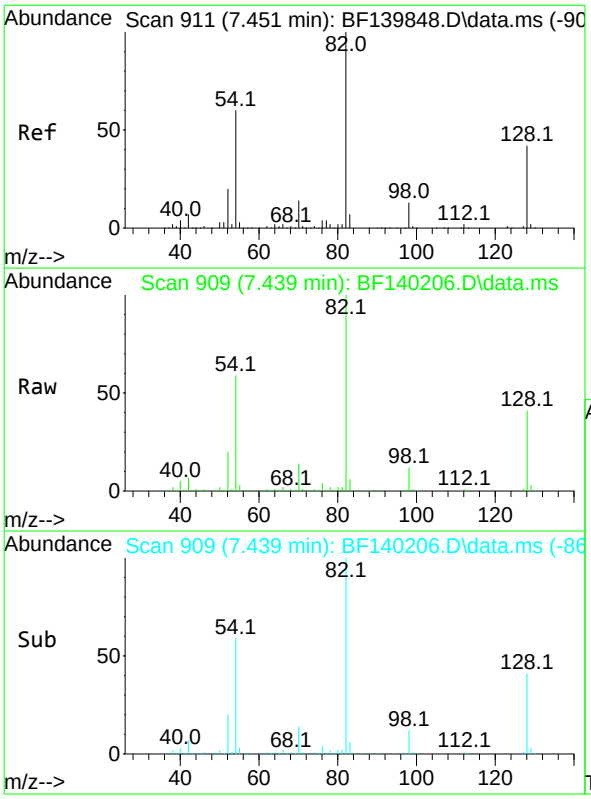


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Tgt Ion:136 Resp: 874676

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.6	12.8
54	10.6	8.4	12.6
68	6.2	5.1	7.7



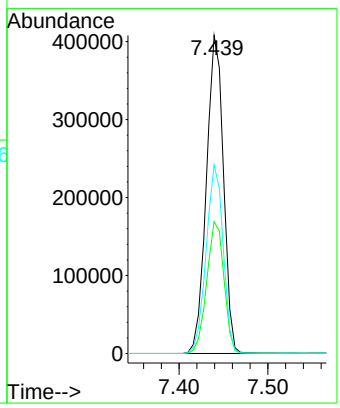


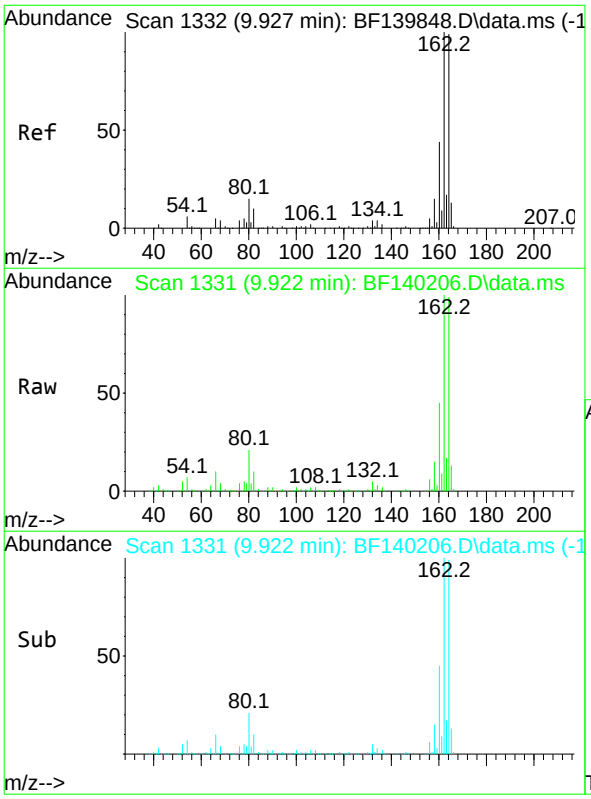
#23
Nitrobenzene-d5
Concen: 34.575 ng
RT: 7.439 min Scan# 90
Delta R.T. -0.012 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Instrument :
BNA_F
ClientSampleId :
WB-305-SWRE

Tgt Ion: 82 Resp: 545652

Ion	Ratio	Lower	Upper
82	100		
128	41.4	33.4	50.0
54	59.3	47.8	71.8

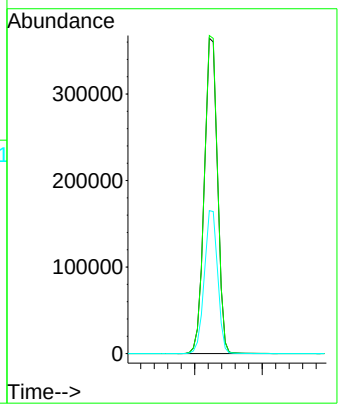


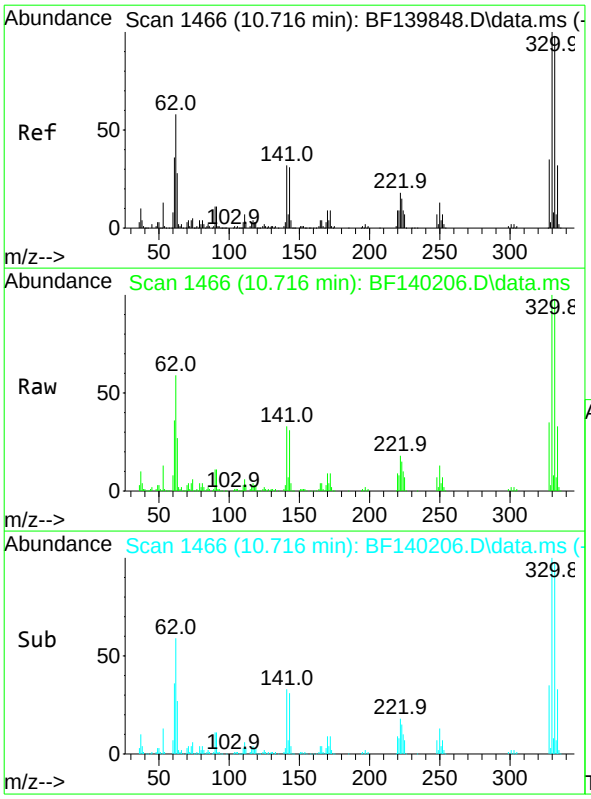


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Tgt Ion:164 Resp: 496865

Ion	Ratio	Lower	Upper
164	100		
162	100.8	81.0	121.4
160	45.3	35.4	53.0



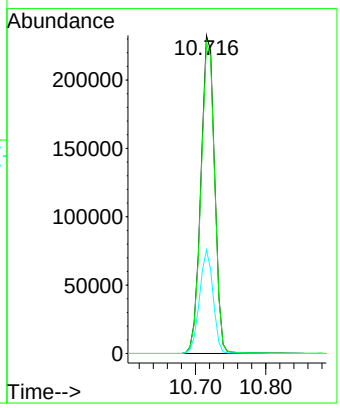


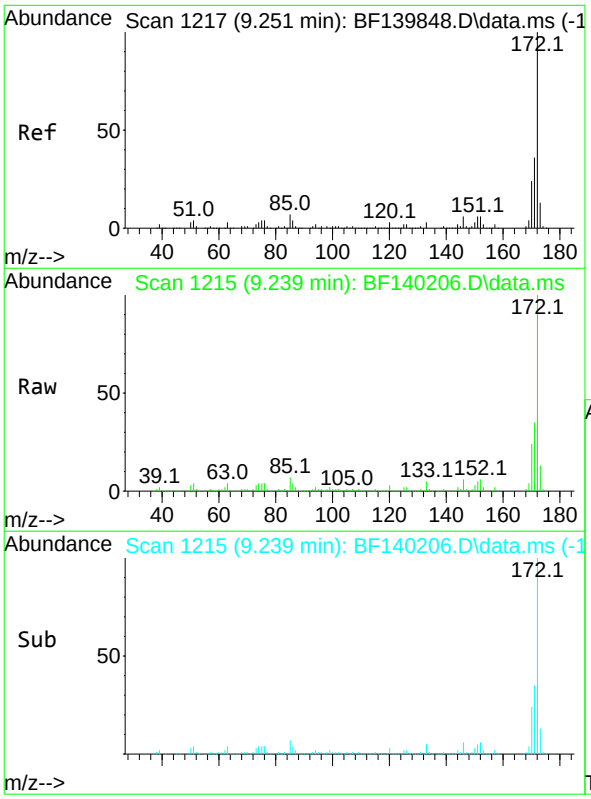
#42
2,4,6-Tribromophenol
Concen: 67.921 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Instrument :
BNA_F
ClientSampleId :
WB-305-SWRE

Tgt Ion:330 Resp: 315662

Ion	Ratio	Lower	Upper
330	100		
332	97.7	78.1	117.1
141	32.1	26.6	39.8

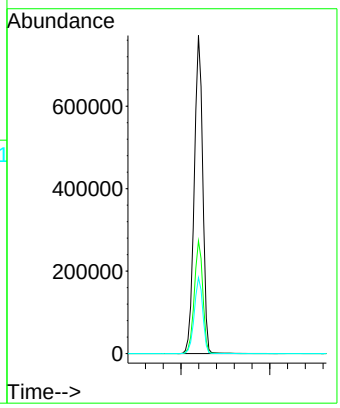




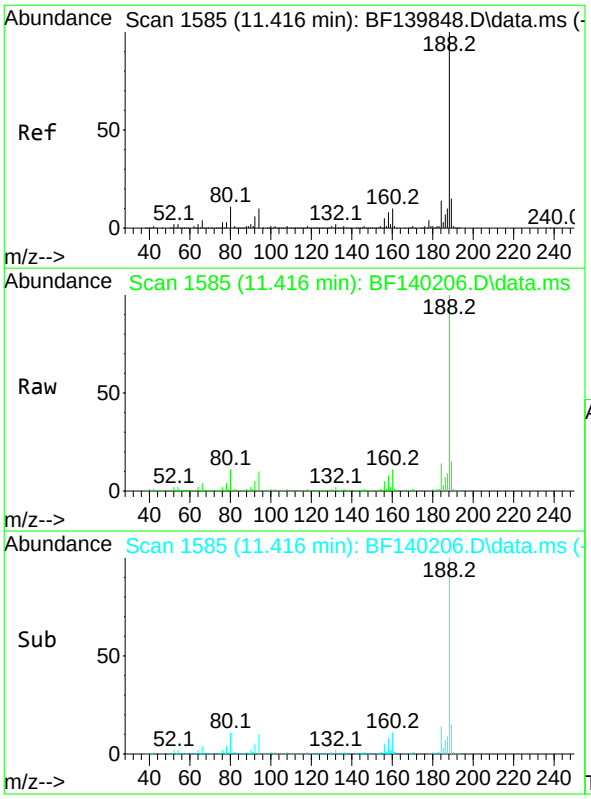
#45
2-Fluorobiphenyl
Concen: 34.164 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.012 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Tgt Ion:172 Resp: 1027093

Ion	Ratio	Lower	Upper
172	100		
171	35.4	28.6	43.0
170	23.9	19.1	28.7



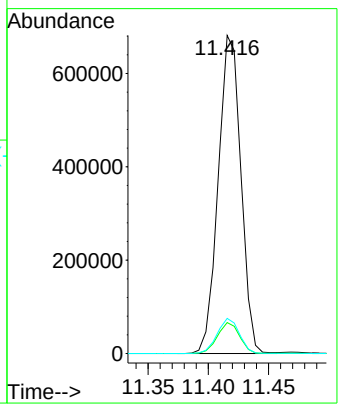
Instrument :
BNA_F
ClientSampleId :
WB-305-SWRE

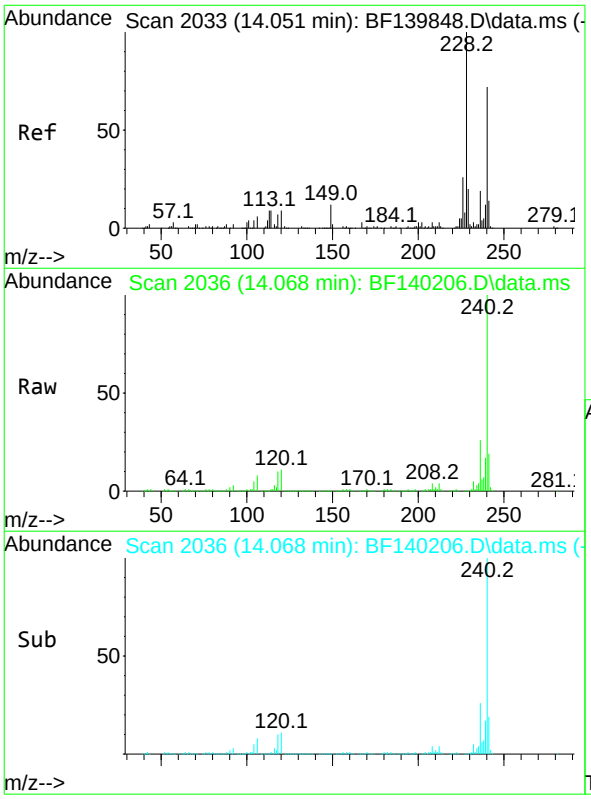


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 15
Delta R.T. 0.000 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Tgt Ion:188 Resp: 893182

Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.9	11.9
80	11.0	9.0	13.4

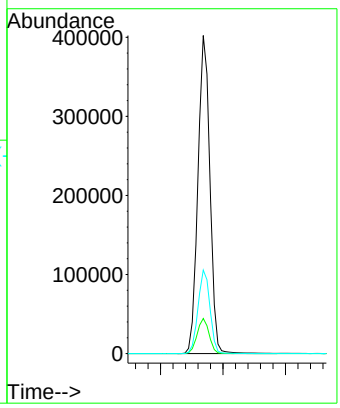


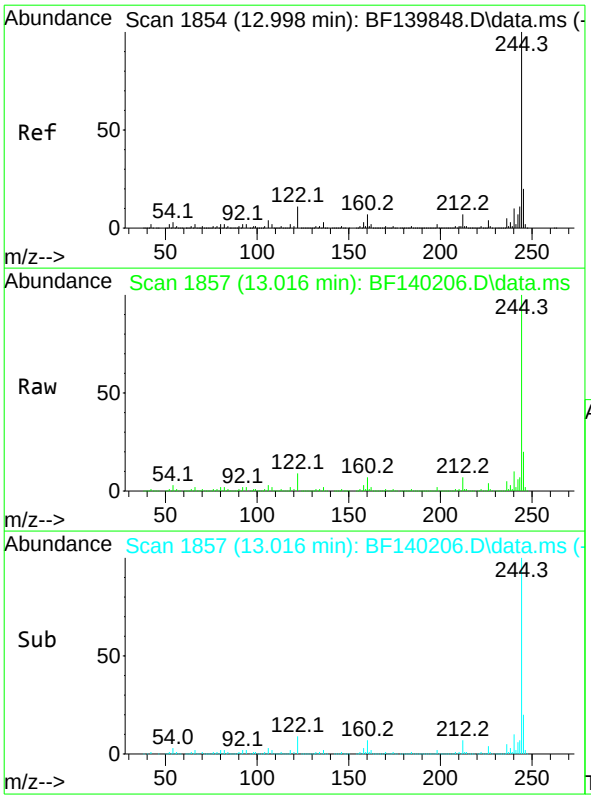


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2036
Delta R.T. 0.018 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Tgt Ion:240 Resp: 535712

Ion	Ratio	Lower	Upper
240	100		
120	11.0	9.4	14.2
236	26.3	20.9	31.3



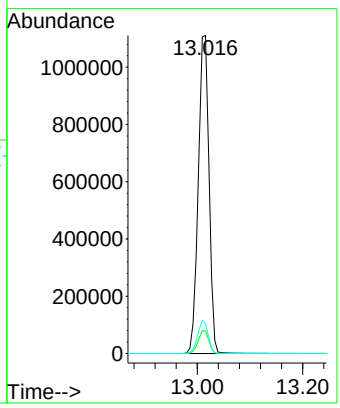


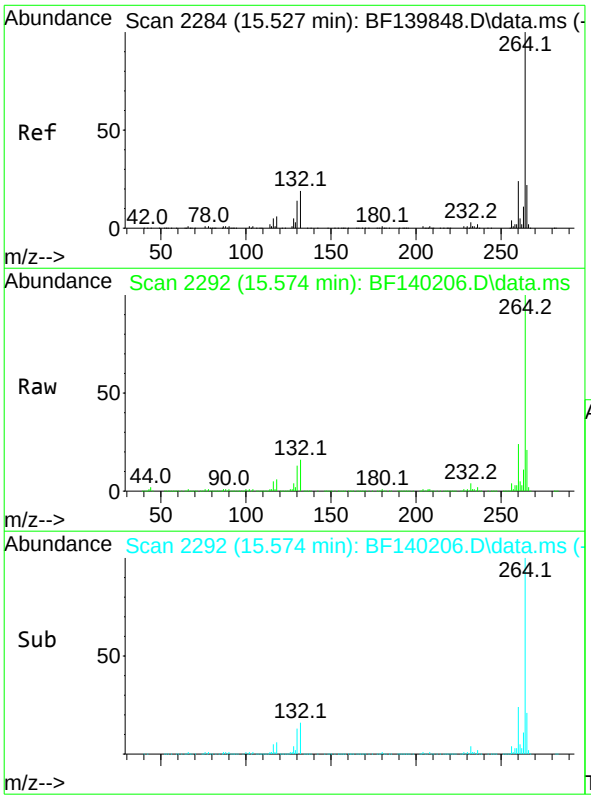
#79
Terphenyl-d14
Concen: 47.791 ng
RT: 13.016 min Scan# 18
Delta R.T. 0.018 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Instrument :
BNA_F
ClientSampleId :
WB-305-SWRE

Tgt Ion:244 Resp: 1571178

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.7	8.5
122	9.5	8.6	13.0

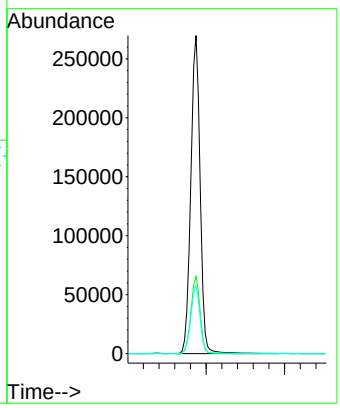




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.574 min Scan# 2292
Delta R.T. 0.047 min
Lab File: BF140206.D
Acq: 01 Nov 2024 12:07

Tgt Ion:264 Resp: 445221

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.4	29.2
265	21.2	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101433.D
Acq On : 31 Oct 2024 15:14
Operator : RC/JU
Sample : P4578-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Quant Time: Oct 31 16:41:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

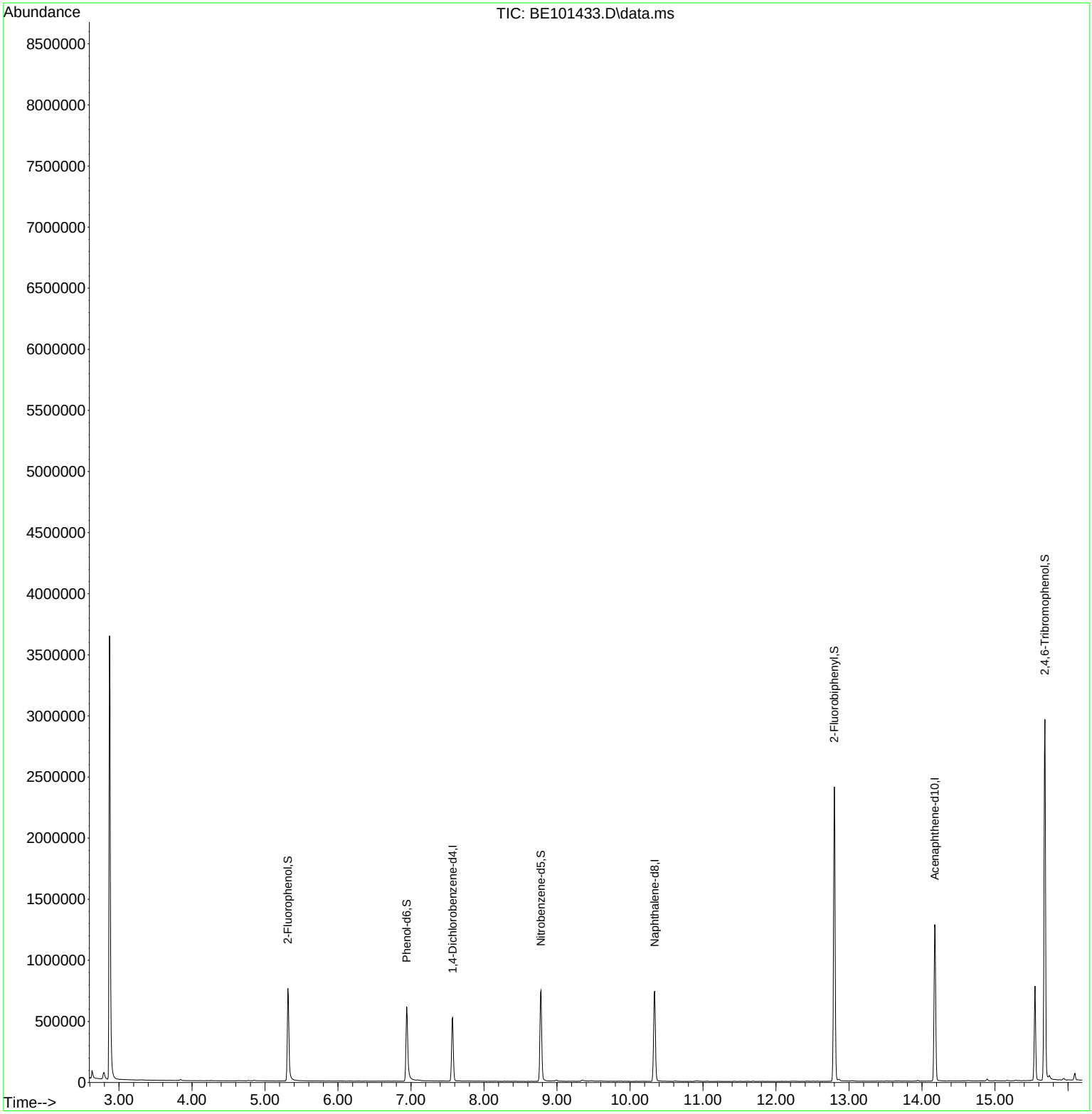
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.571	152	150057	20.000	ng	0.00
21) Naphthalene-d8	10.338	136	662069	20.000	ng	0.00
39) Acenaphthene-d10	14.175	164	470146	20.000	ng	0.00
64) Phenanthrene-d10	16.913	188	1206173	20.000	ng	0.00
76) Chrysene-d12	21.072	240	1598005	20.000	ng	0.00
86) Perylene-d12	23.364	264	2061054	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.314	112	383093	44.745	ng	0.00
7) Phenol-d6	6.942	99	429715	36.197	ng	0.00
23) Nitrobenzene-d5	8.781	82	456426	43.300	ng	0.00
42) 2,4,6-Tribromophenol	15.685	330	715545	86.836	ng	0.00
45) 2-Fluorobiphenyl	12.800	172	1268778	45.703	ng	0.00
79) Terphenyl-d14	19.509	244	3678322	52.978	ng	0.00
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101433.D
Acq On : 31 Oct 2024 15:14
Operator : RC/JU
Sample : P4578-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

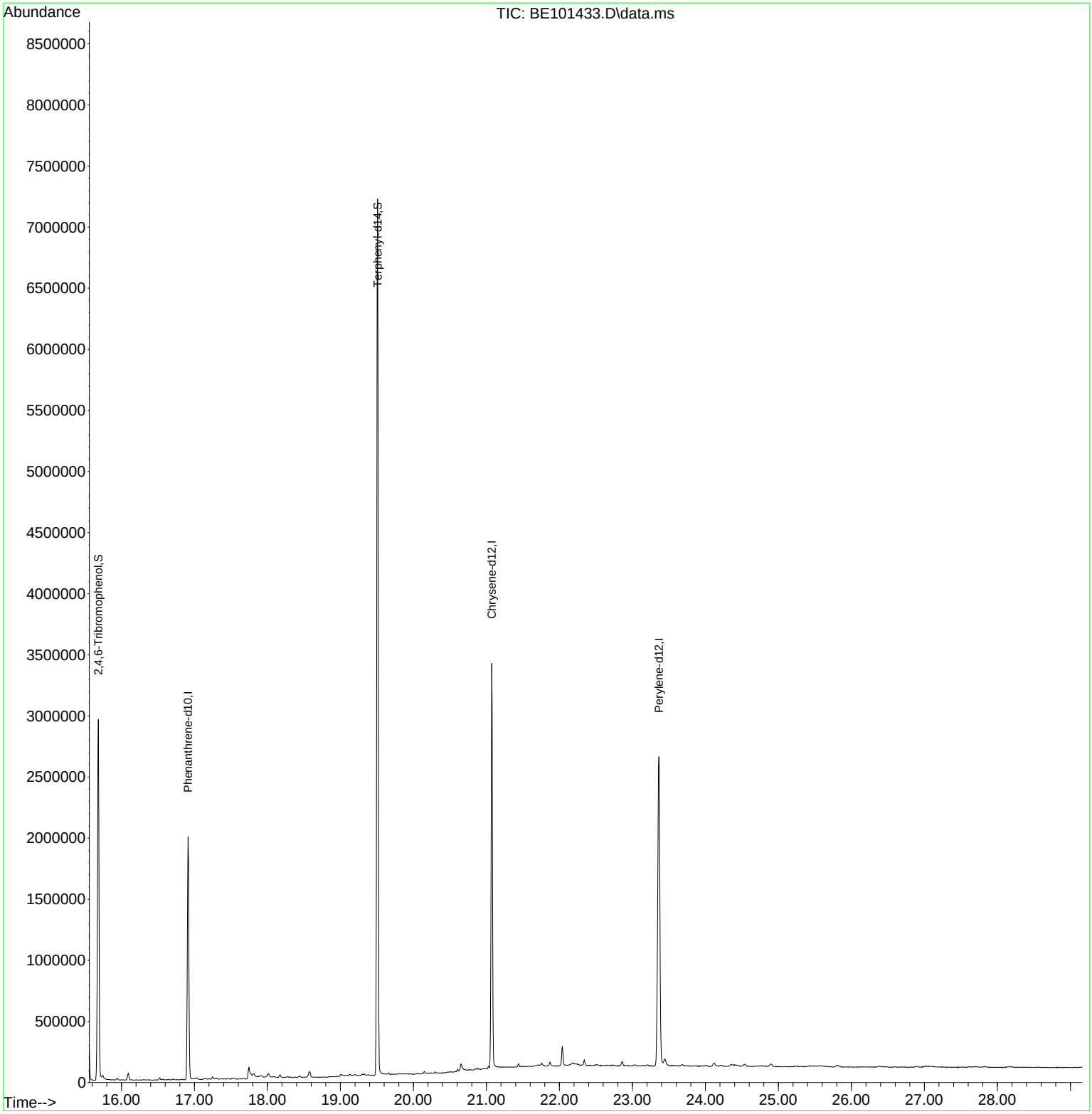
Quant Time: Oct 31 16:41:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

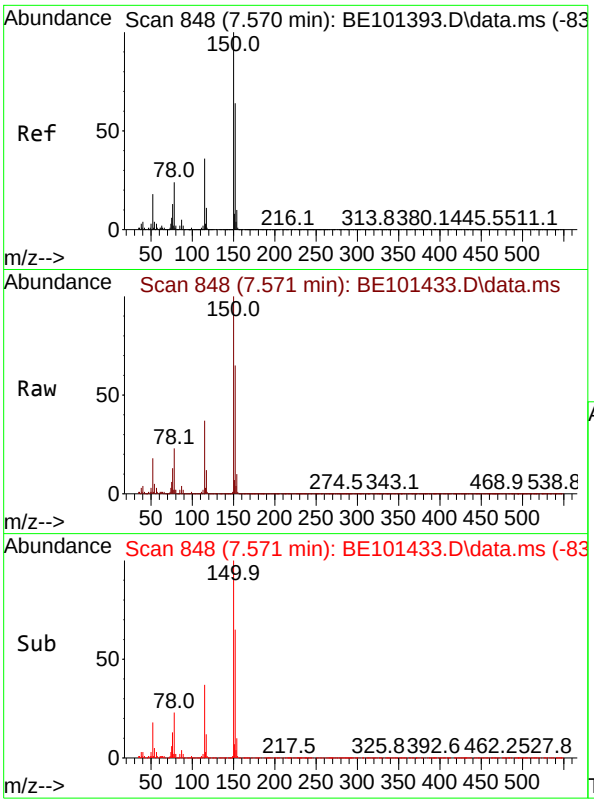


Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101433.D
Acq On : 31 Oct 2024 15:14
Operator : RC/JU
Sample : P4578-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Quant Time: Oct 31 16:41:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration



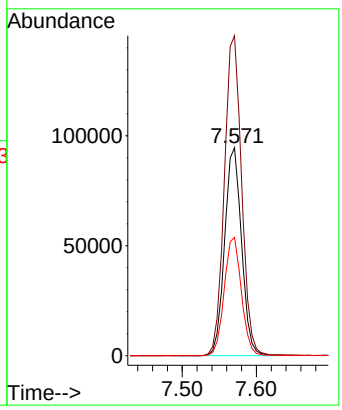


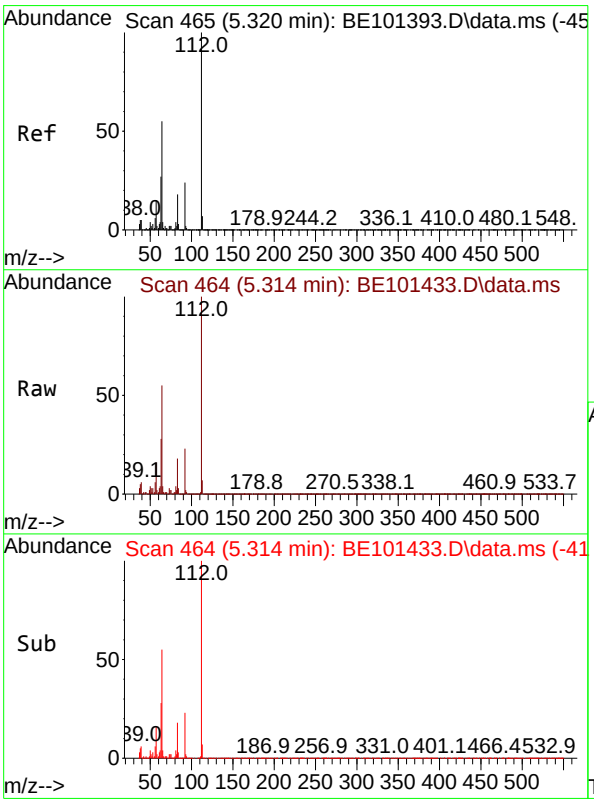
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.571 min Scan# 84
Delta R.T. 0.001 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Tgt Ion:152 Resp: 150057

Ion	Ratio	Lower	Upper
152	100		
150	153.9	124.2	186.4
115	57.0	45.3	67.9

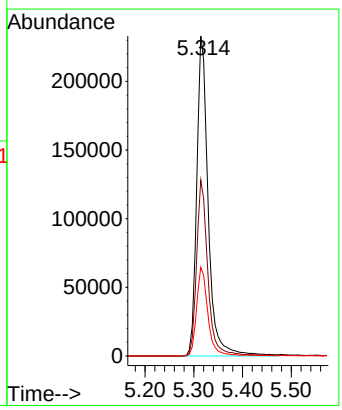


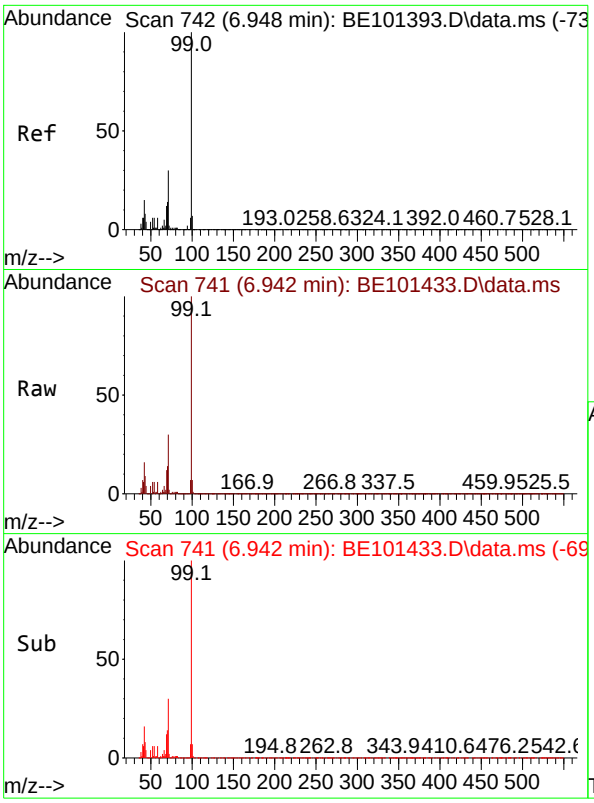


#5
2-Fluorophenol
Concen: 44.745 ng
RT: 5.314 min Scan# 464
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Tgt Ion:112 Resp: 383093

Ion	Ratio	Lower	Upper
112	100		
64	55.0	43.7	65.5
63	27.7	21.4	32.2



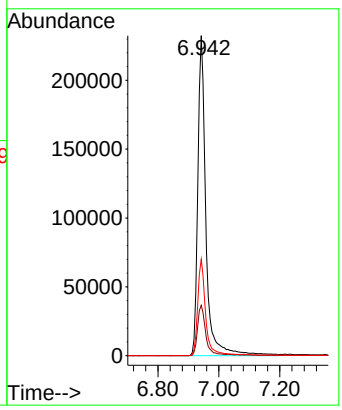


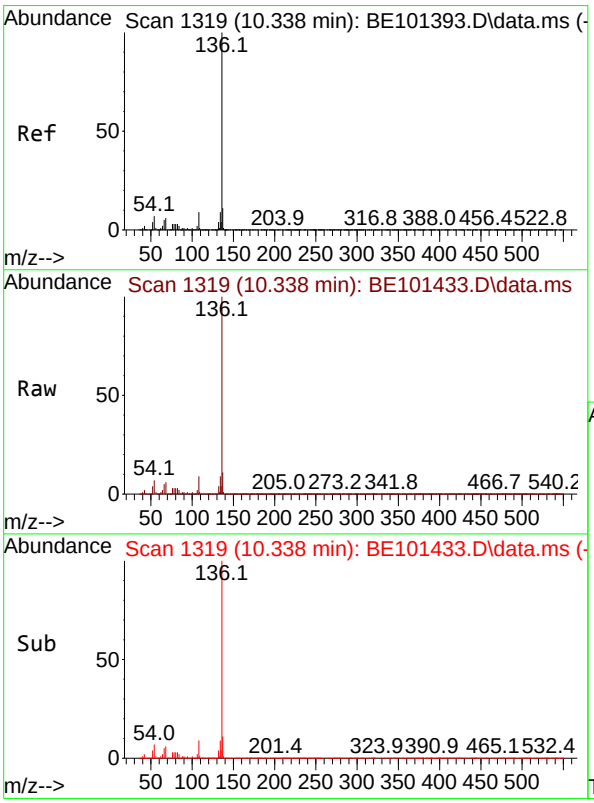
#7
Phenol-d6
Concen: 36.197 ng
RT: 6.942 min Scan# 7
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Tgt Ion: 99 Resp: 429715

Ion	Ratio	Lower	Upper
99	100		
42	15.7	12.3	18.5
71	30.1	23.8	35.8

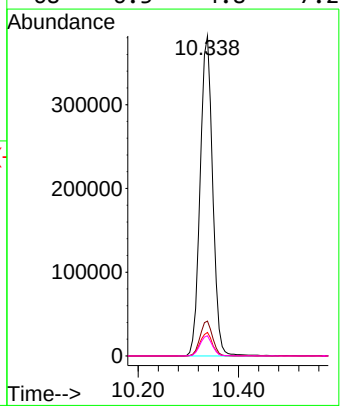


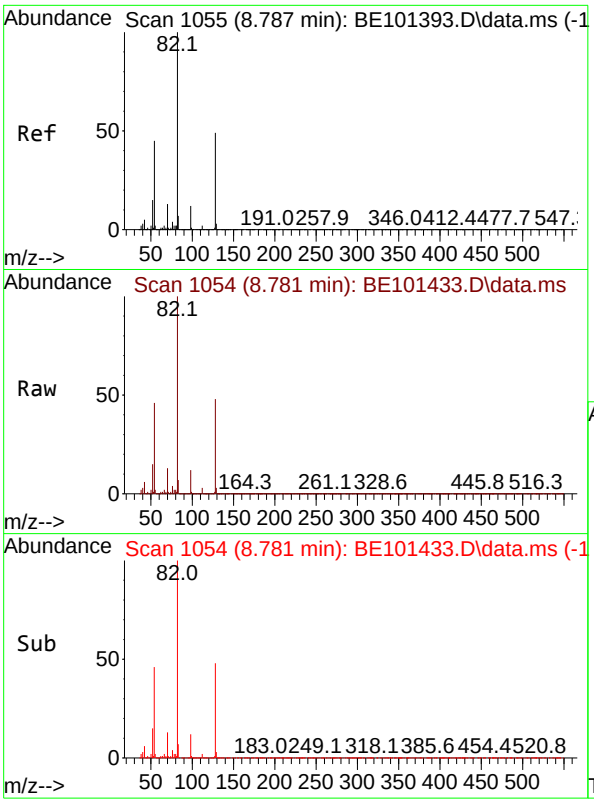


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.338 min Scan# 1319
Delta R.T. 0.000 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Tgt Ion:136 Resp: 662069

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.6
54	7.3	5.9	8.9
68	6.3	4.8	7.2



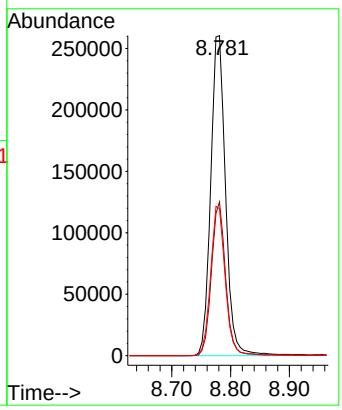


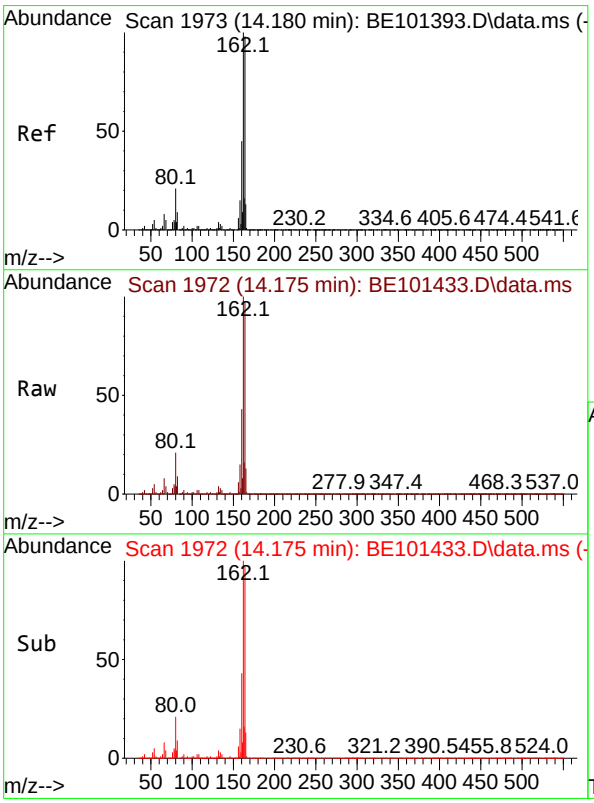
#23
Nitrobenzene-d5
Concen: 43.300 ng
RT: 8.781 min Scan# 1
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Tgt Ion: 82 Resp: 456426

Ion	Ratio	Lower	Upper
82	100		
128	48.1	38.9	58.3
54	46.0	36.2	54.4

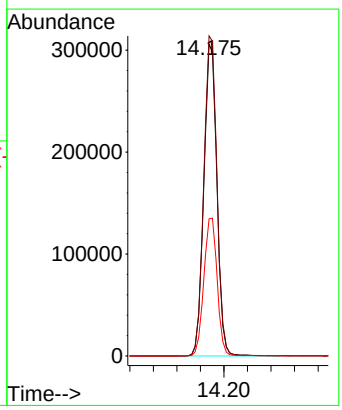


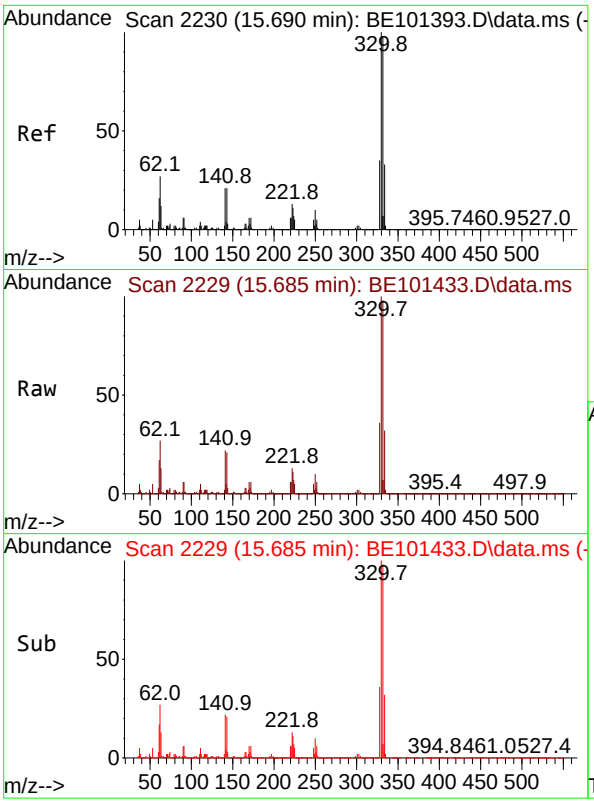


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.175 min Scan# 1972
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Tgt Ion:164 Resp: 470146

Ion	Ratio	Lower	Upper
164	100		
162	102.7	81.3	121.9
160	44.0	36.4	54.6



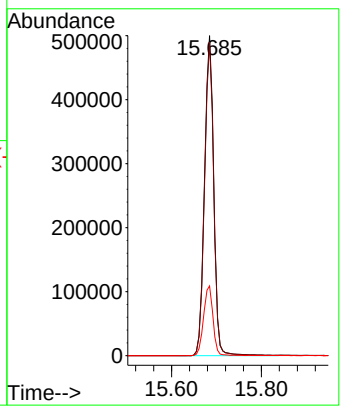


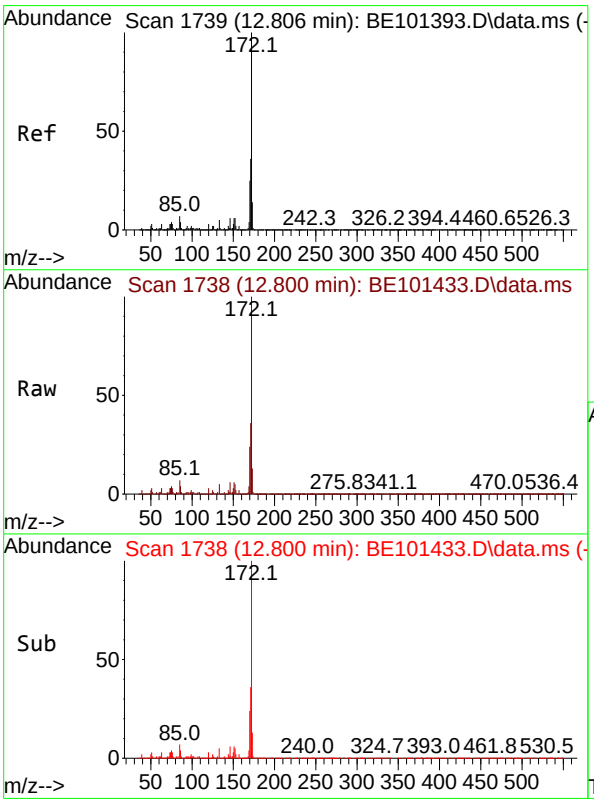
#42
2,4,6-Tribromophenol
Concen: 86.836 ng
RT: 15.685 min Scan# 2
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Tgt Ion:330 Resp: 715545

Ion	Ratio	Lower	Upper
330	100		
332	96.9	78.2	117.2
141	22.3	18.3	27.5

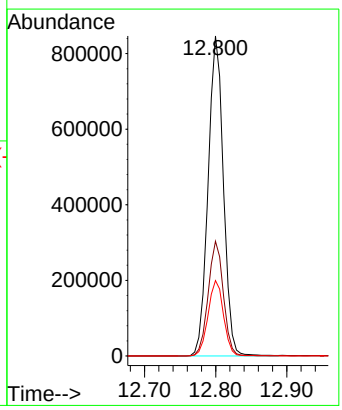


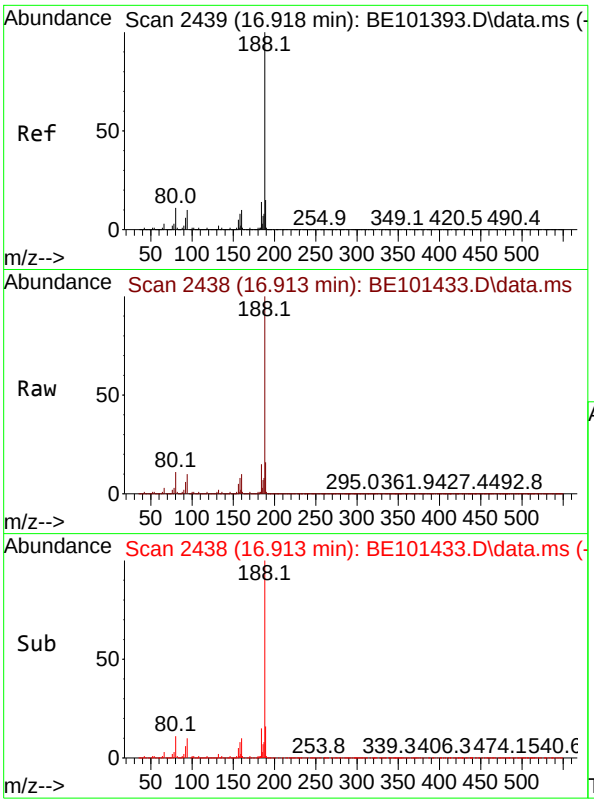


#45
2-Fluorobiphenyl
Concen: 45.703 ng
RT: 12.800 min Scan# 1738
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Tgt Ion:172 Resp: 1268778

Ion	Ratio	Lower	Upper
172	100		
171	35.8	29.2	43.8
170	23.6	19.8	29.6



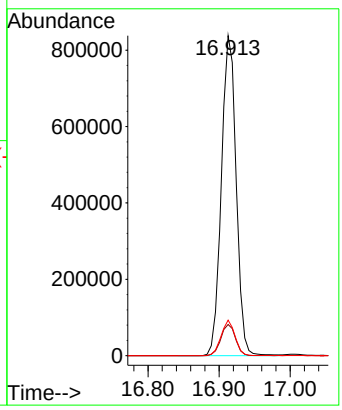


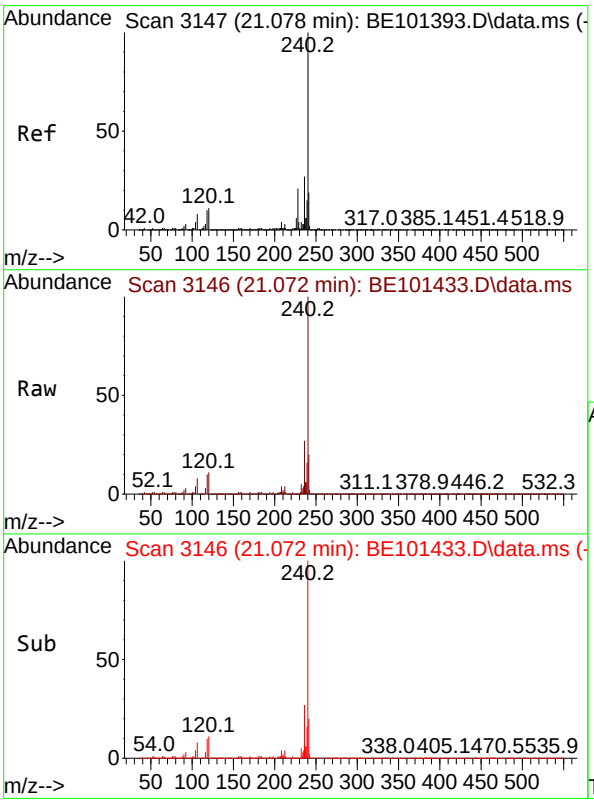
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.913 min Scan# 24
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Tgt Ion:188 Resp: 1206173

Ion	Ratio	Lower	Upper
188	100		
94	9.8	7.8	11.8
80	11.1	8.6	12.8

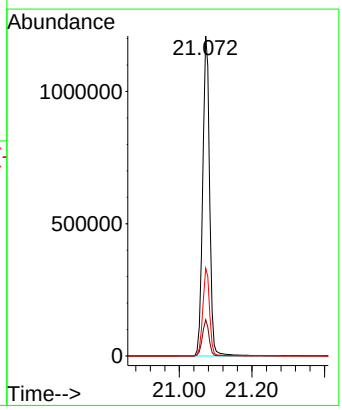


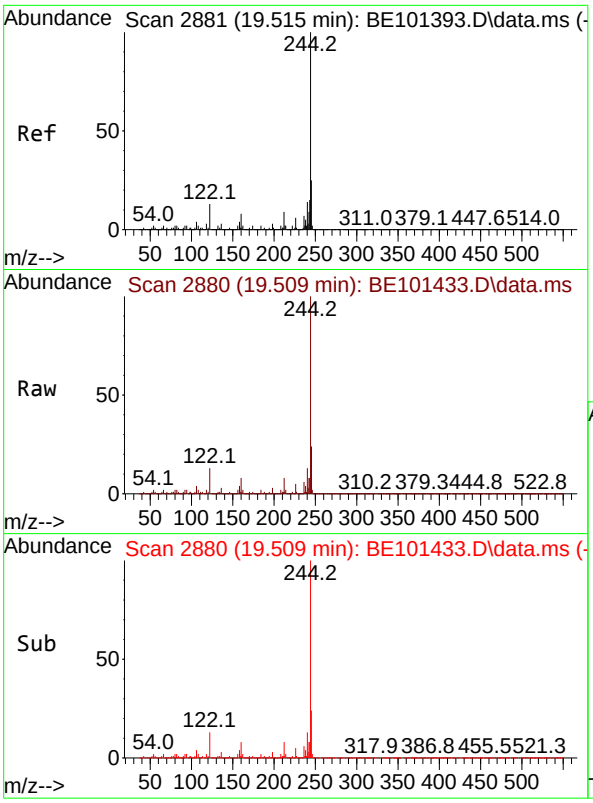


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.072 min Scan# 3146
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Tgt Ion:240 Resp: 1598005

Ion	Ratio	Lower	Upper
240	100		
120	11.3	9.0	13.4
236	27.4	21.4	32.0



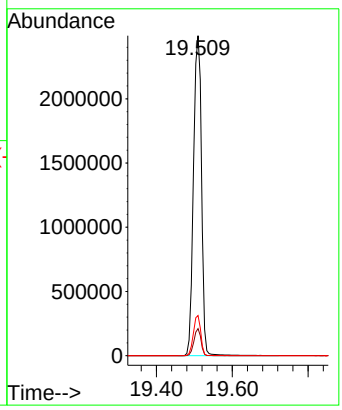


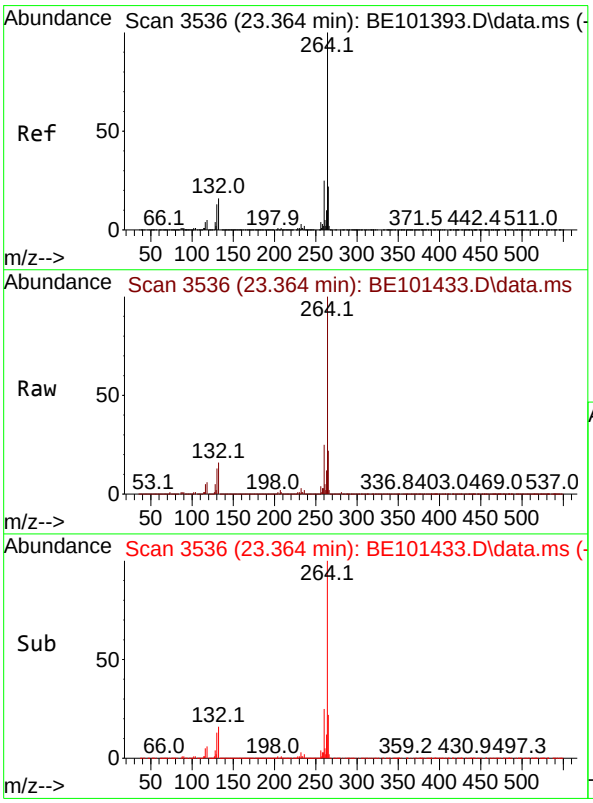
#79
Terphenyl-d14
Concen: 52.978 ng
RT: 19.509 min Scan# 2
Delta R.T. -0.006 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Tgt Ion:244 Resp: 3678322

Ion	Ratio	Lower	Upper
244	100		
212	8.5	7.2	10.8
122	12.6	10.4	15.6

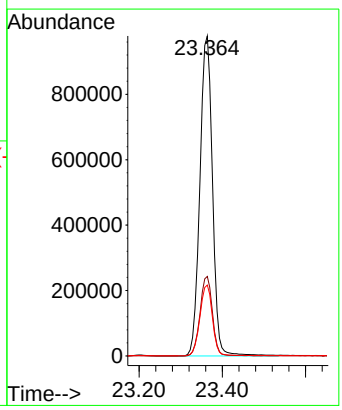




#86
Perylene-d12
Concen: 20.000 ng
RT: 23.364 min Scan# 3536
Delta R.T. 0.000 min
Lab File: BE101433.D
Acq: 31 Oct 2024 15:14

Tgt Ion:264 Resp: 2061054

Ion	Ratio	Lower	Upper
264	100		
260	24.8	19.8	29.8
265	22.2	17.6	26.4



Sample Results: **BE101433.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101433.D
Acq On : 31 Oct 2024 15:14
Operator : RC/JU
Sample : P4578-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

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_E\Methods\8270-BE102824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BE101433.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.870	44	48	72	rVB	3630862	4594554	46.45%	10.445%
2	5.314	458	464	486	rBV	758572	1240275	12.54%	2.820%
3	6.942	734	741	763	rBV	609108	1151228	11.64%	2.617%
4	7.571	840	848	859	rBV	518309	841149	8.50%	1.912%
5	8.781	1046	1054	1072	rBV	742963	1292362	13.07%	2.938%
6	10.338	1309	1319	1331	rBV	739119	1290144	13.04%	2.933%
7	12.800	1731	1738	1746	rBV	2409668	3577692	36.17%	8.133%
8	14.175	1964	1972	1987	rBV	1281212	1995234	20.17%	4.536%
9	15.549	2200	2206	2220	rVB	770293	1018673	10.30%	2.316%
10	15.685	2222	2229	2236	rBV	2951375	4247174	42.94%	9.655%
11	16.913	2432	2438	2448	rBV	1986401	2847391	28.79%	6.473%
12	17.747	2574	2580	2587	rBV2	95443	209975	2.12%	0.477%
13	19.509	2874	2880	2892	rBV	7167847	9891069	100.00%	22.486%
14	20.649	3071	3074	3082	rBV2	53357	100576	1.02%	0.229%
15	21.072	3141	3146	3156	rBV	3307247	4286208	43.33%	9.744%
16	22.042	3307	3311	3317	rVB	148943	199046	2.01%	0.453%
17	23.364	3527	3536	3545	rBV	2528901	5205262	52.63%	11.833%

Sum of corrected areas: 43988012

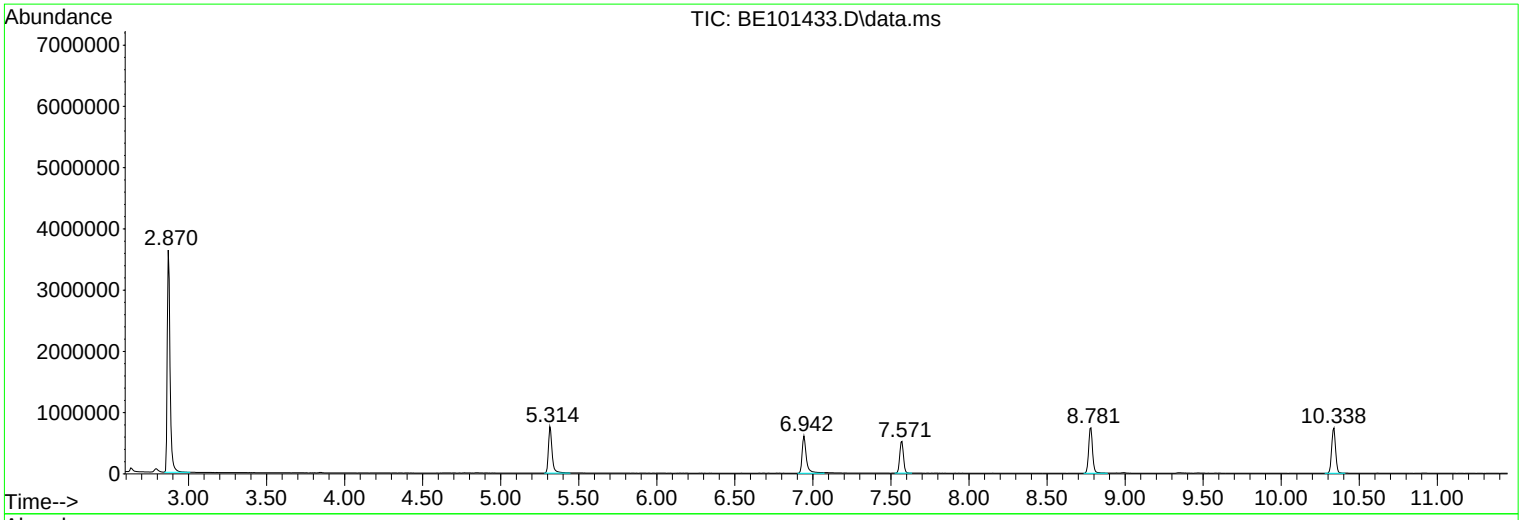
Sample Results: **BE101433.D**

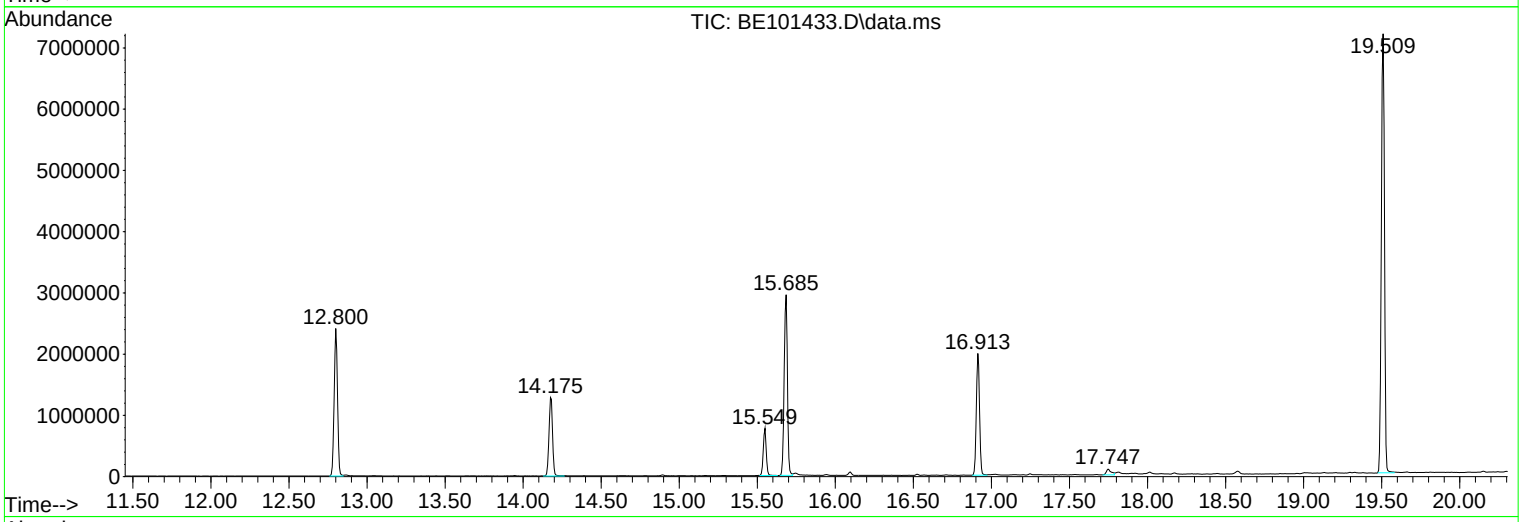
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101433.D
Acq On : 31 Oct 2024 15:14
Operator : RC/JU
Sample : P4578-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

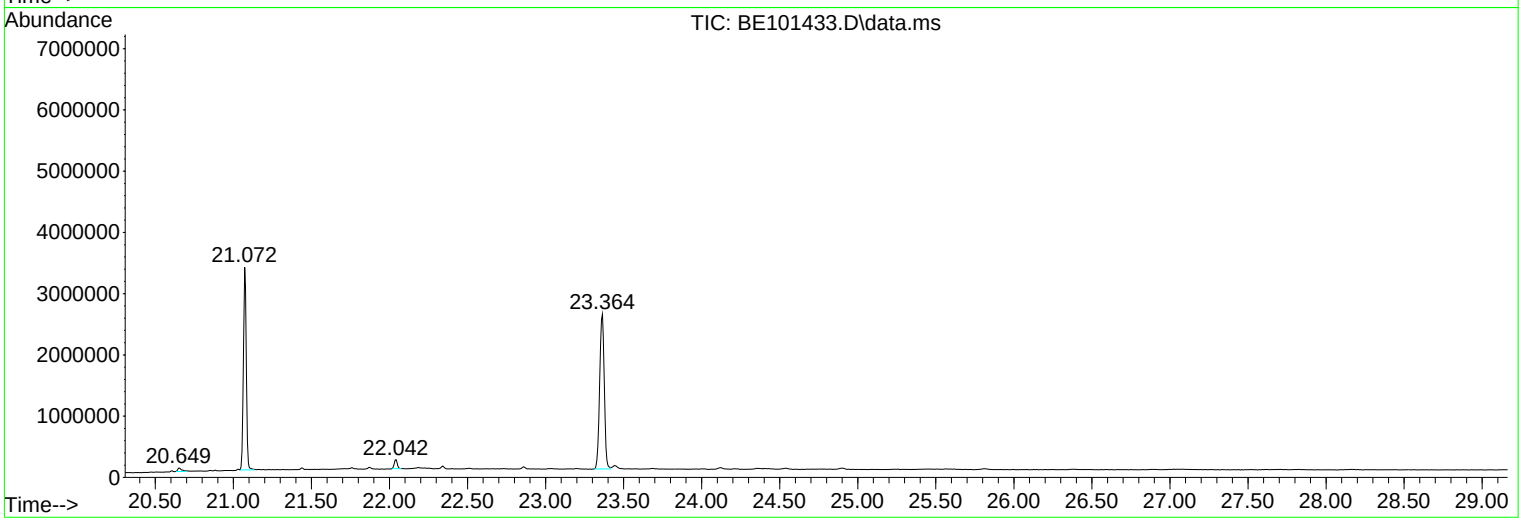
Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.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_E\Data\BE103124\
Data File : BE101433.D
Acq On : 31 Oct 2024 15:14
Operator : RC/JU
Sample : P4578-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

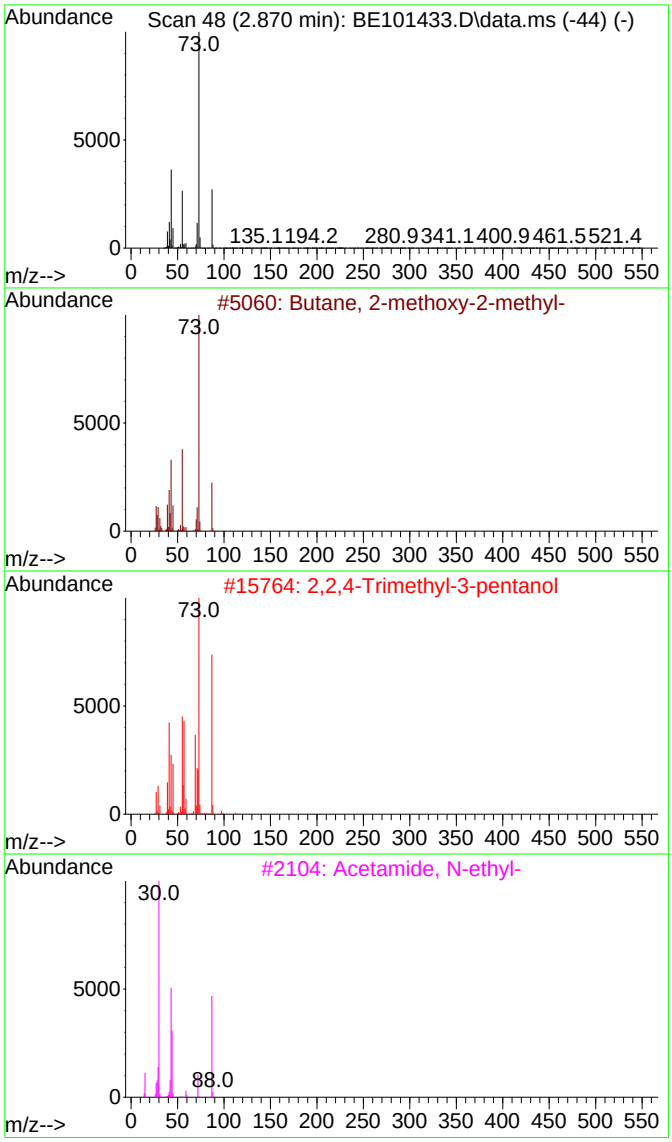
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

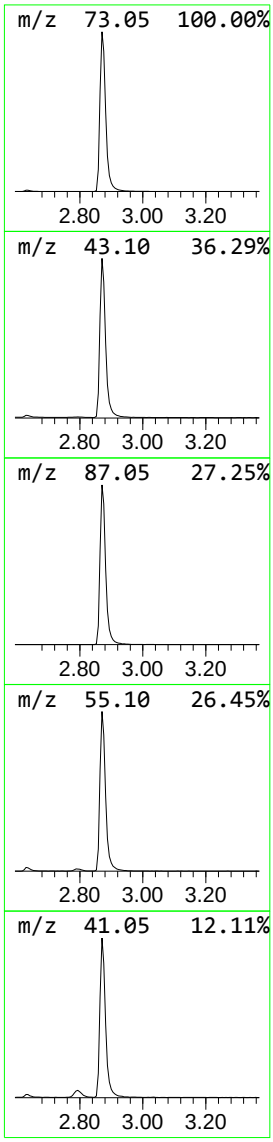
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.870	109.25 ng	4594550	1,4-Dichlorobenzene-d4	7.571

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	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	17
5	N-Ethylformamide	73	C3H7NO	000627-45-2	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101433.D
Acq On : 31 Oct 2024 15:14
Operator : RC/JU
Sample : P4578-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

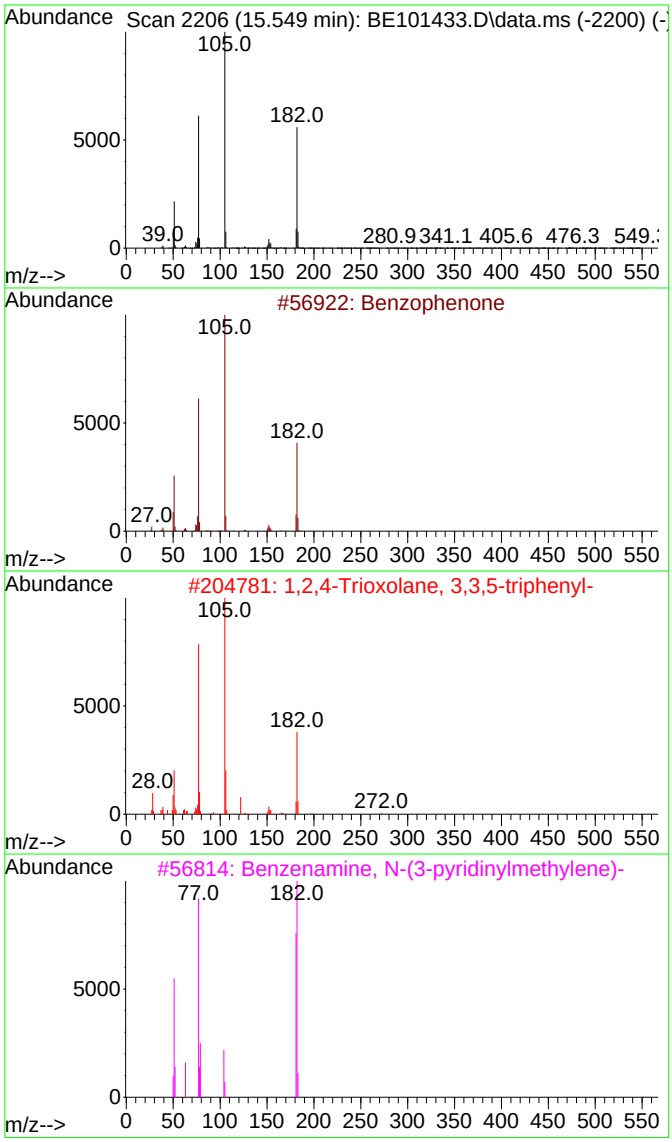
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

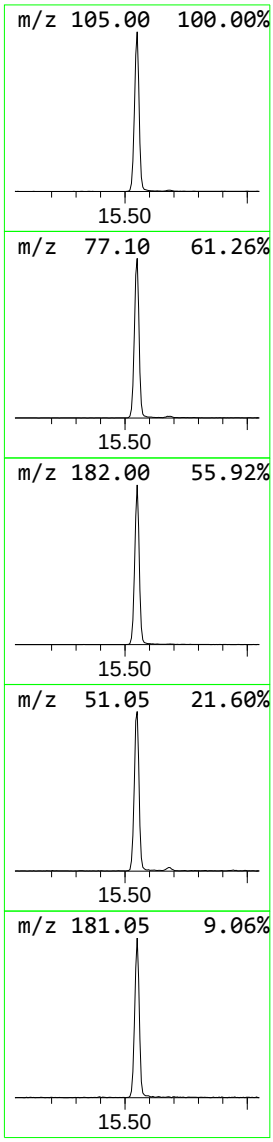
****

Peak Number 2 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.549	7.16 ng	1018670	Phenanthrene-d10	16.913

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	97
2	1,2,4-Trioxolane, 3,3,5-triphenyl-	304	C20H16O3	023246-12-0	64
3	Benzenamine, N-(3-pyridinylmethy...	182	C12H10N2	029722-97-2	42
4	1,2,4-Triazolo[4,3-b]pyridazine,...	182	C7H7ClN4	028593-26-2	38
5	Azobenzene	182	C12H10N2	000103-33-3	37





Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101433.D
Acq On : 31 Oct 2024 15:14
Operator : RC/JU
Sample : P4578-02
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
WB-305-SW-1

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.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...	2.870	109.3	ng	4594550	1	7.571	841149	20.0
Benzophenone	15.549	7.2	ng	1018670	4	16.913	2847390	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140207.D
Acq On : 01 Nov 2024 12:33
Operator : RC/JU
Sample : P4578-02RE
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW-1RE

Quant Time: Nov 01 13:16:01 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

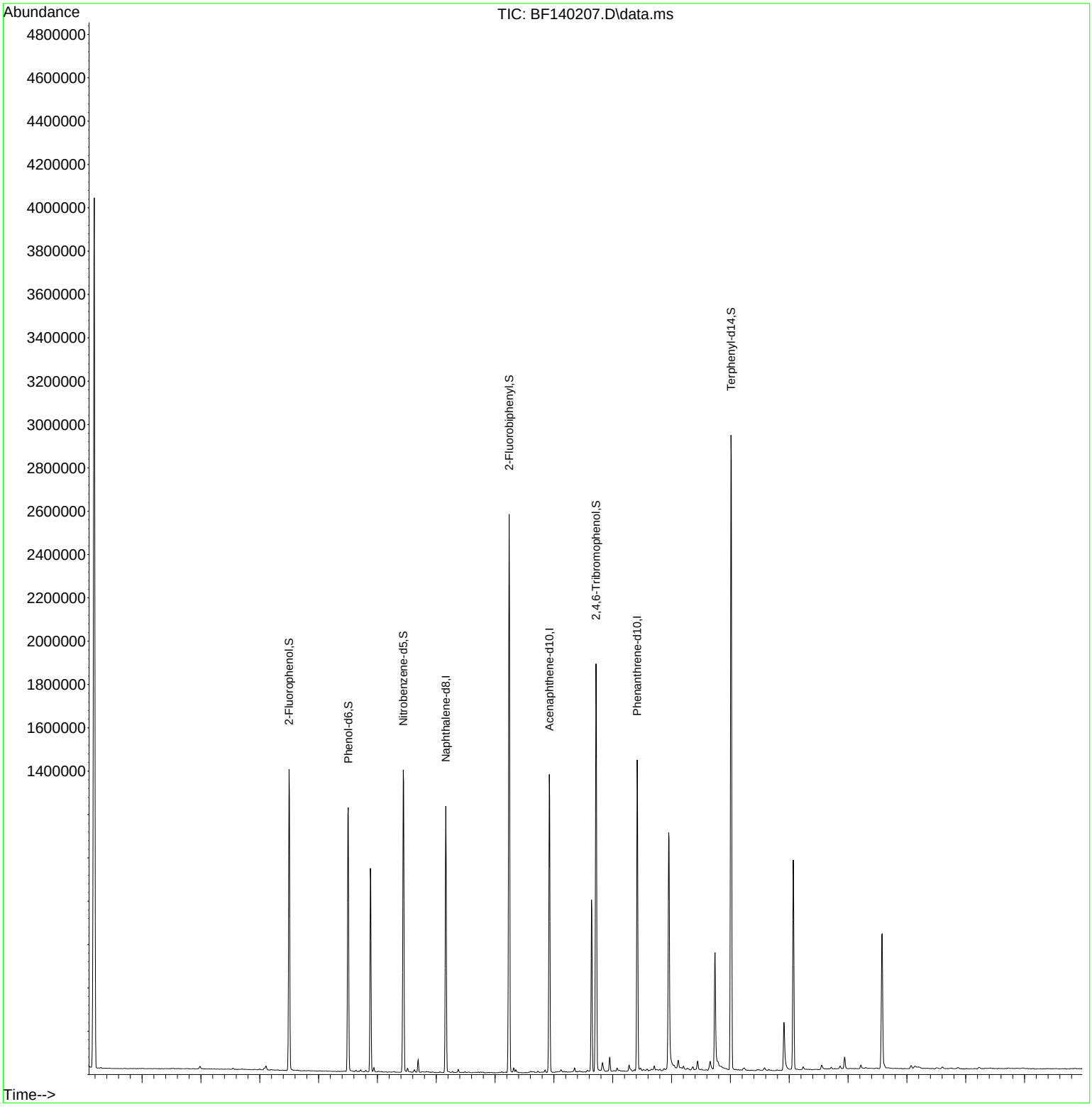
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	186612	20.000	ng	-0.01
21) Naphthalene-d8	8.163	136	733188	20.000	ng	-0.01
39) Acenaphthene-d10	9.922	164	415849	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	750159	20.000	ng	0.00
76) Chrysene-d12	14.068	240	460215	20.000	ng	0.02
86) Perylene-d12	15.580	264	381772	20.000	ng	0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	486703	40.830	ng	0.00
7) Phenol-d6	6.504	99	545169	35.312	ng	0.00
23) Nitrobenzene-d5	7.439	82	639007	48.304	ng	-0.01
42) 2,4,6-Tribromophenol	10.716	330	323842	83.256	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1165500	46.320	ng	-0.01
79) Terphenyl-d14	13.010	244	1531195	54.215	ng	0.01
Target Compounds						Qvalue

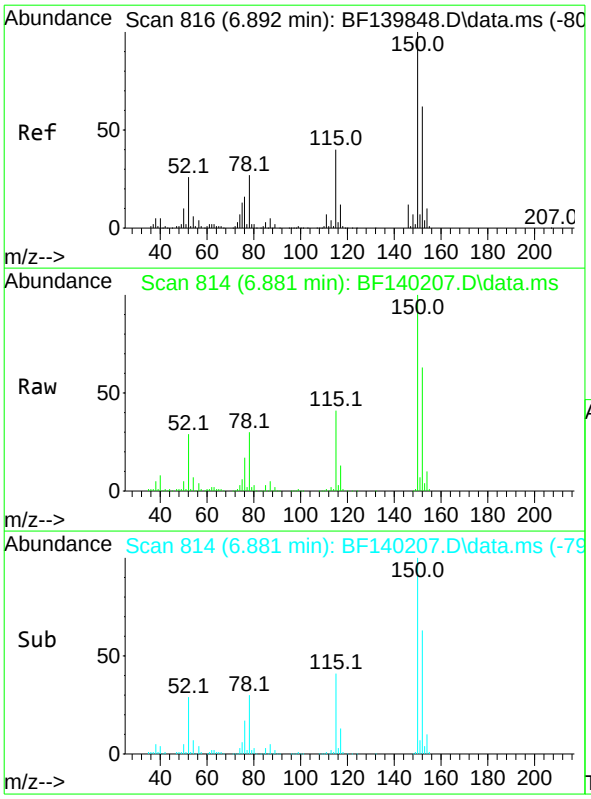
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF110124\
Data File : BF140207.D
Acq On : 01 Nov 2024 12:33
Operator : RC/JU
Sample : P4578-02RE
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-SW-1RE

Quant Time: Nov 01 13:16:01 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



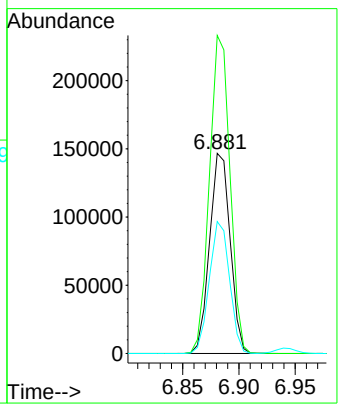


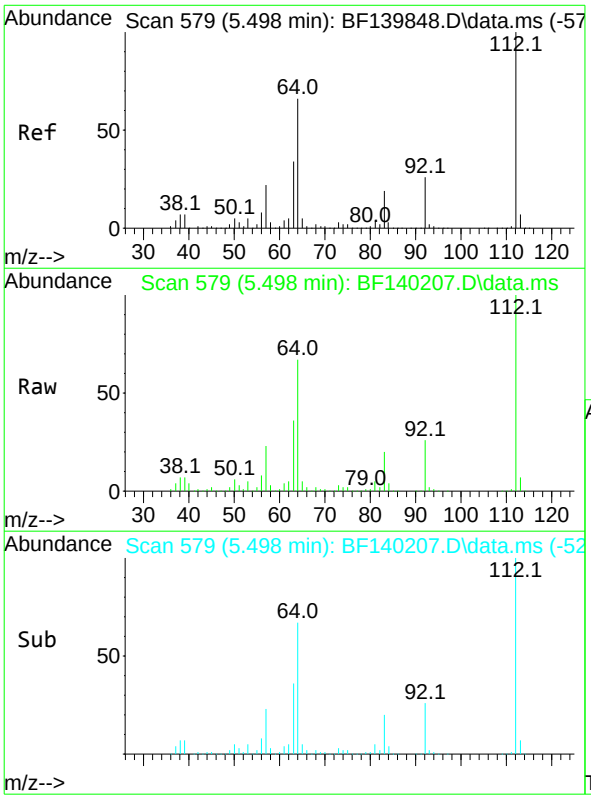
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 81
Delta R.T. -0.011 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Instrument :
BNA_F
ClientSampleId :
WB-305-SW-1RE

Tgt Ion:152 Resp: 186612

Ion	Ratio	Lower	Upper
152	100		
150	158.9	130.2	195.2
115	65.9	51.4	77.2

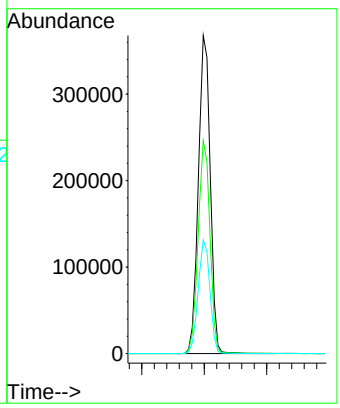


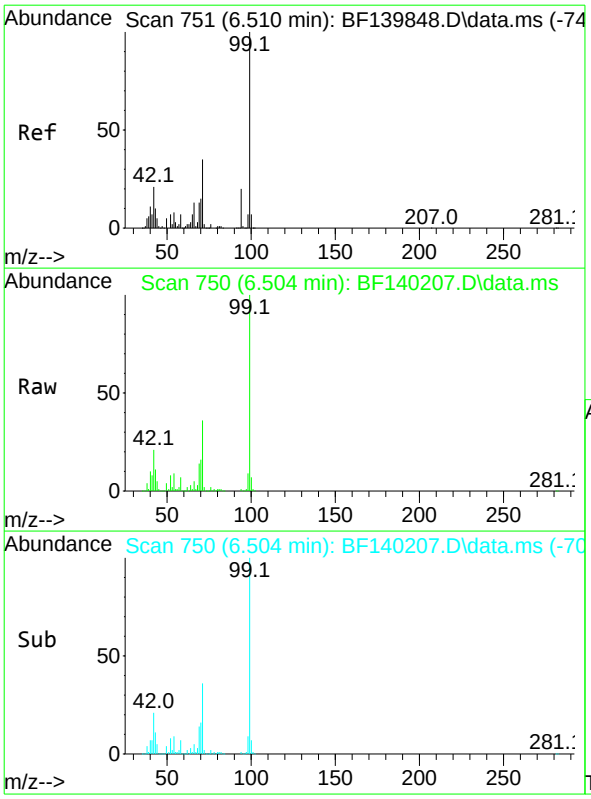


#5
2-Fluorophenol
Concen: 40.830 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.000 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Tgt Ion:112 Resp: 486703

Ion	Ratio	Lower	Upper
112	100		
64	67.0	53.0	79.6
63	35.7	27.0	40.4



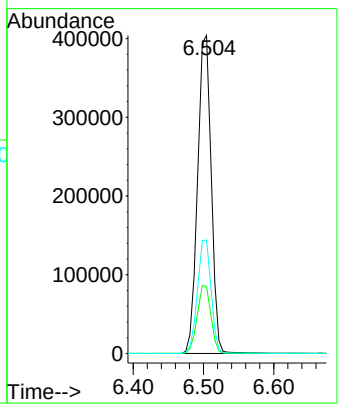


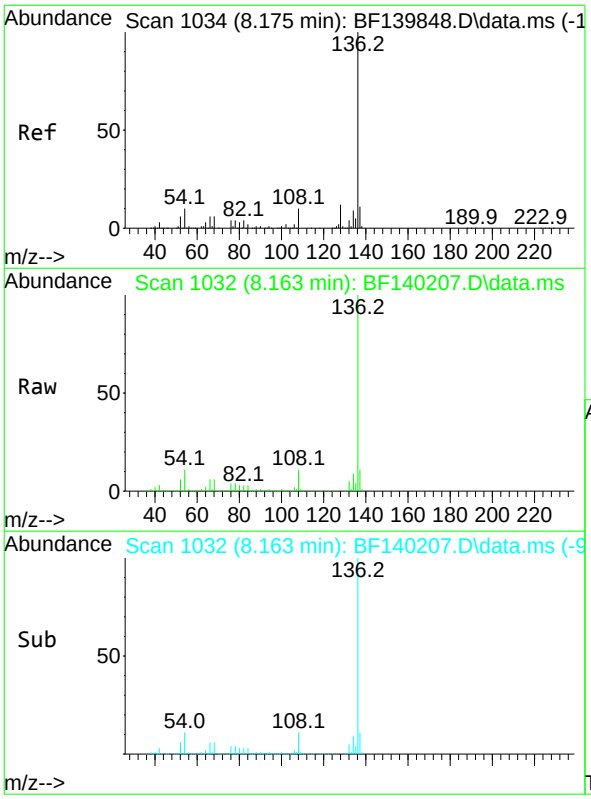
#7
Phenol-d6
Concen: 35.312 ng
RT: 6.504 min Scan# 75
Delta R.T. -0.006 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Instrument :
BNA_F
ClientSampleId :
WB-305-SW-1RE

Tgt Ion: 99 Resp: 545169

Ion	Ratio	Lower	Upper
99	100		
42	21.0	16.7	25.1
71	35.7	27.7	41.5

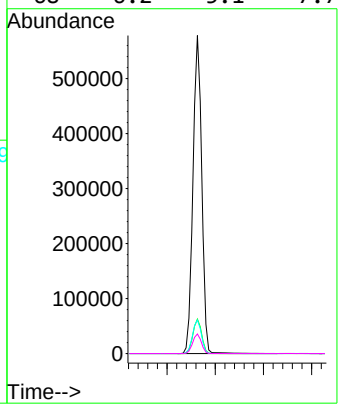


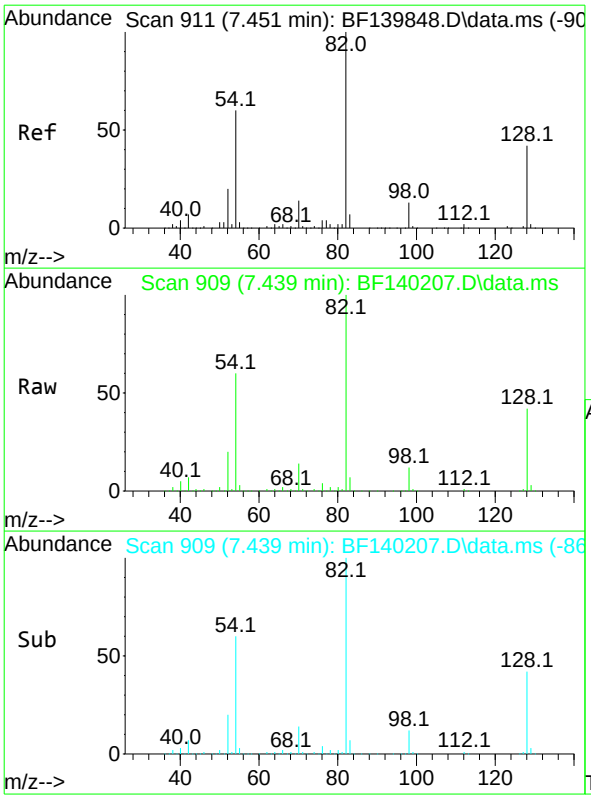


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Tgt Ion:136 Resp: 733188

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	10.6	8.4	12.6
68	6.2	5.1	7.7



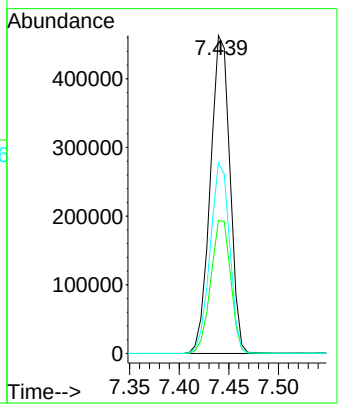


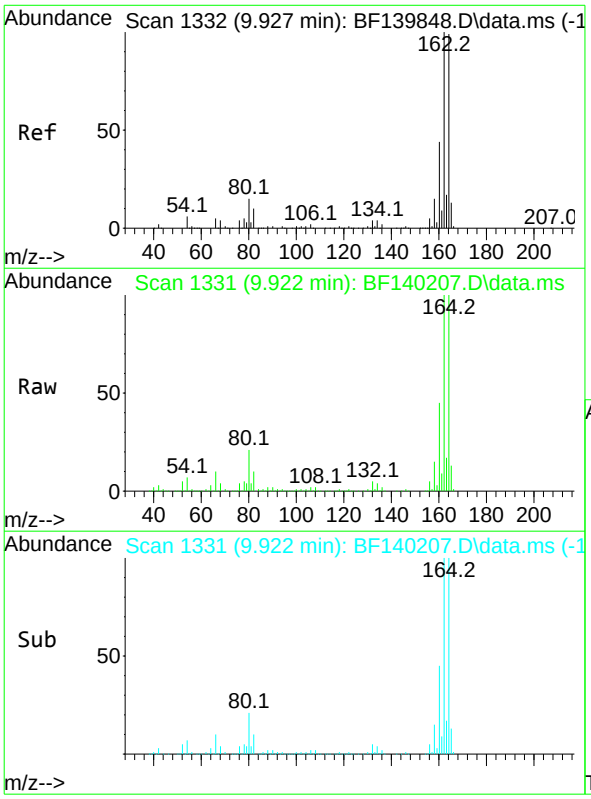
#23
Nitrobenzene-d5
Concen: 48.304 ng
RT: 7.439 min Scan# 90
Delta R.T. -0.012 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Instrument :
BNA_F
ClientSampleId :
WB-305-SW-1RE

Tgt Ion: 82 Resp: 639007

Ion	Ratio	Lower	Upper
82	100		
128	41.8	33.4	50.0
54	60.0	47.8	71.8

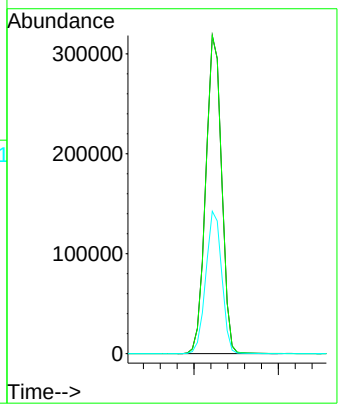


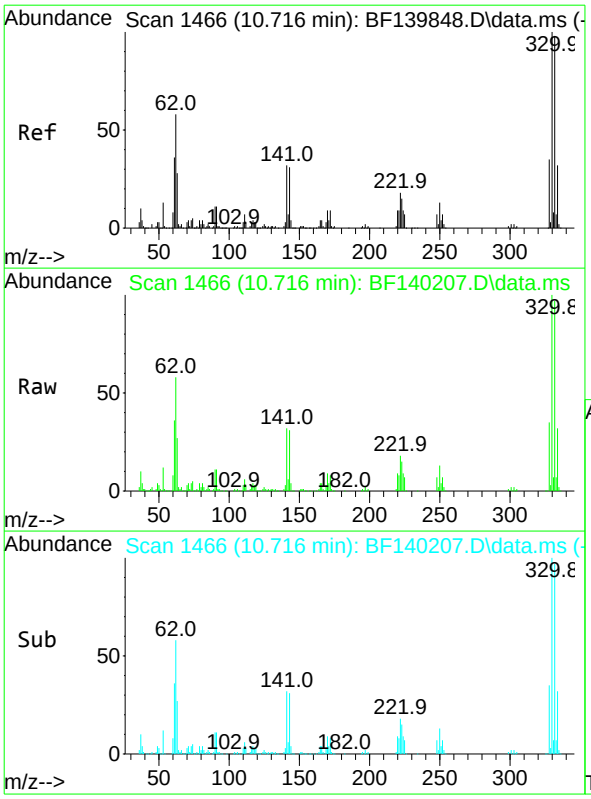


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Tgt Ion:164 Resp: 415849

Ion	Ratio	Lower	Upper
164	100		
162	99.9	81.0	121.4
160	44.8	35.4	53.0



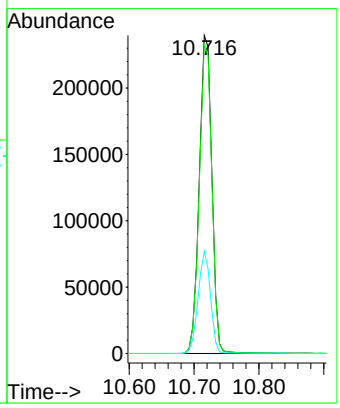


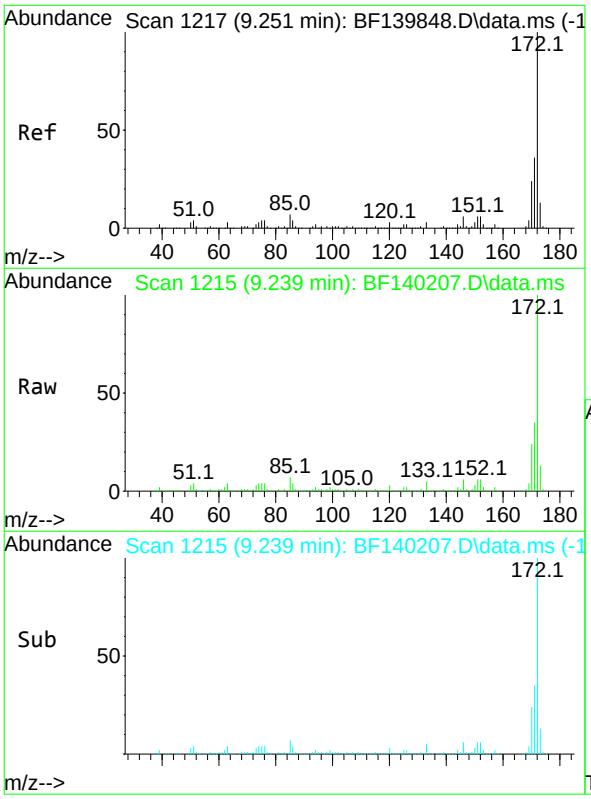
#42
2,4,6-Tribromophenol
Concen: 83.256 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Instrument :
BNA_F
ClientSampleId :
WB-305-SW-1RE

Tgt Ion:330 Resp: 323842

Ion	Ratio	Lower	Upper
330	100		
332	97.3	78.1	117.1
141	31.7	26.6	39.8

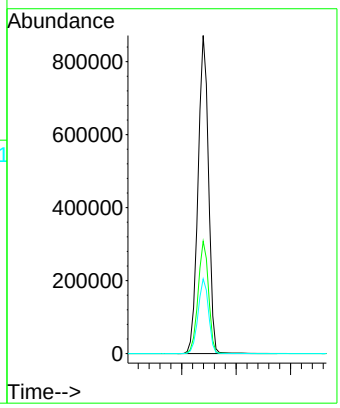


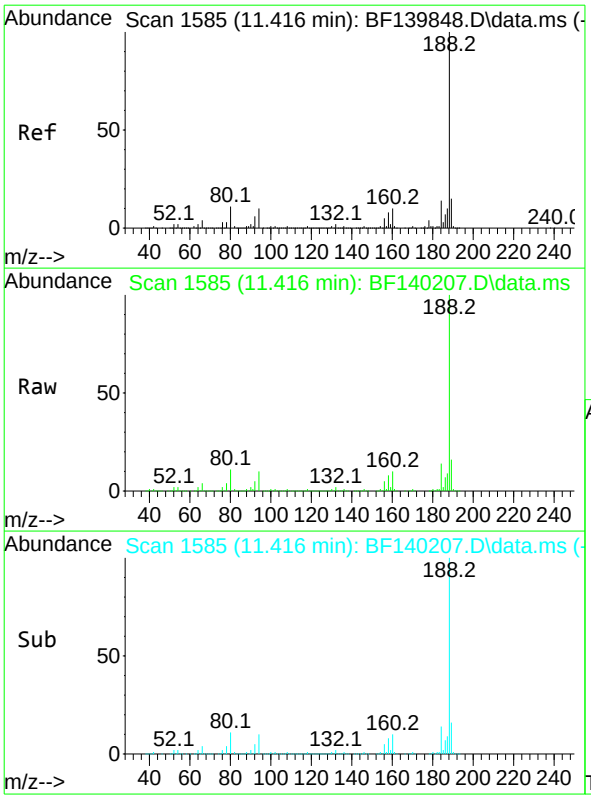


#45
2-Fluorobiphenyl
Concen: 46.320 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.012 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Tgt Ion:172 Resp: 1165500

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.6	43.0
170	23.5	19.1	28.7



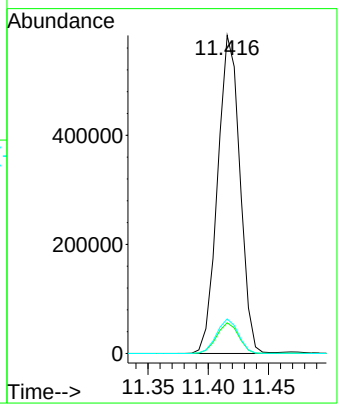


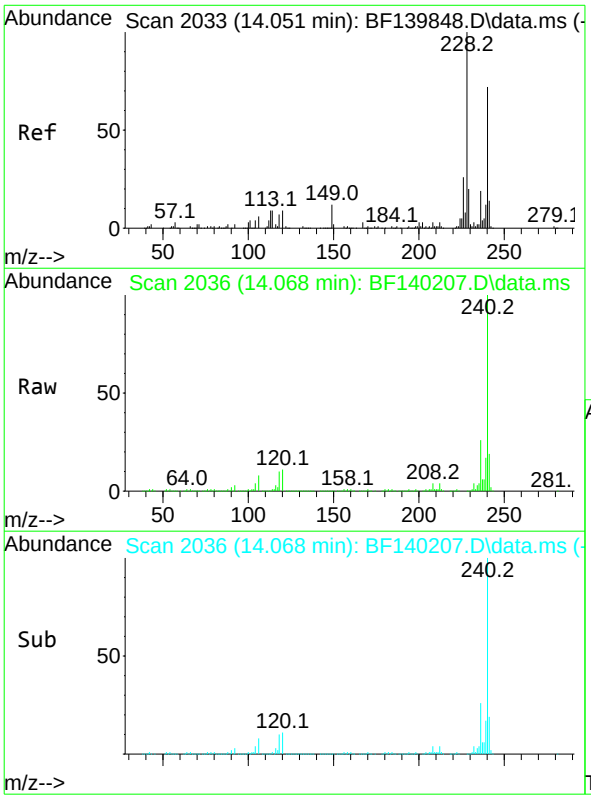
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 15
Delta R.T. 0.000 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Instrument :
BNA_F
ClientSampleId :
WB-305-SW-1RE

Tgt Ion:188 Resp: 750159

Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.9	11.9
80	10.9	9.0	13.4

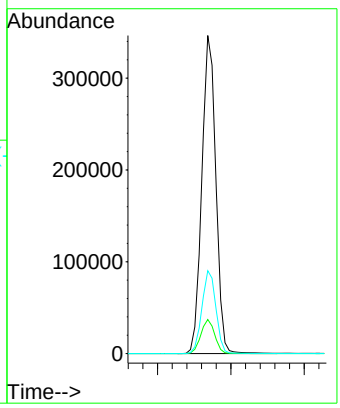


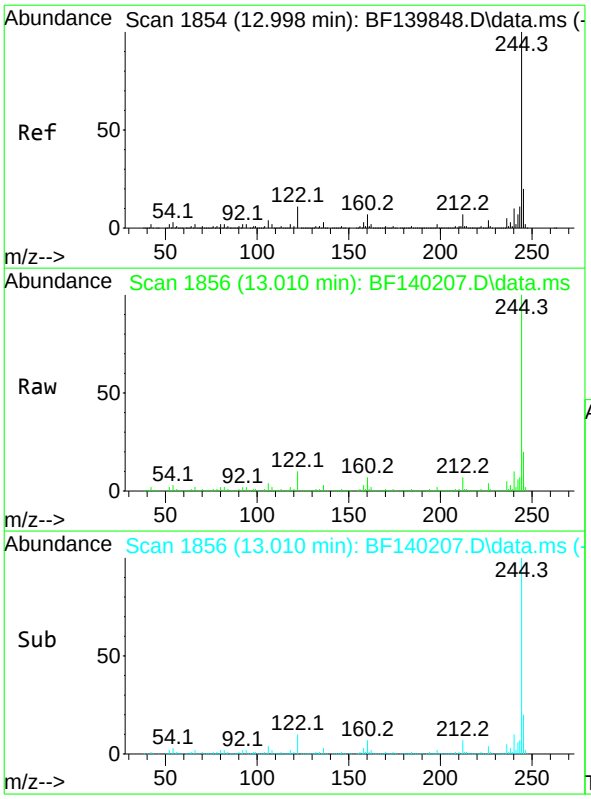


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.068 min Scan# 2036
Delta R.T. 0.018 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Tgt Ion:240 Resp: 460215

Ion	Ratio	Lower	Upper
240	100		
120	10.7	9.4	14.2
236	26.0	20.9	31.3



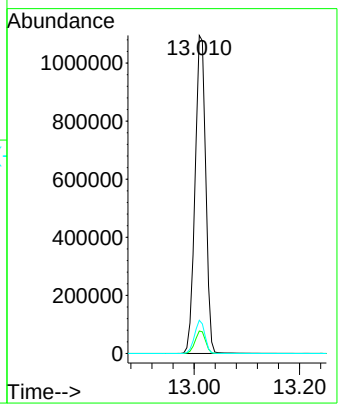


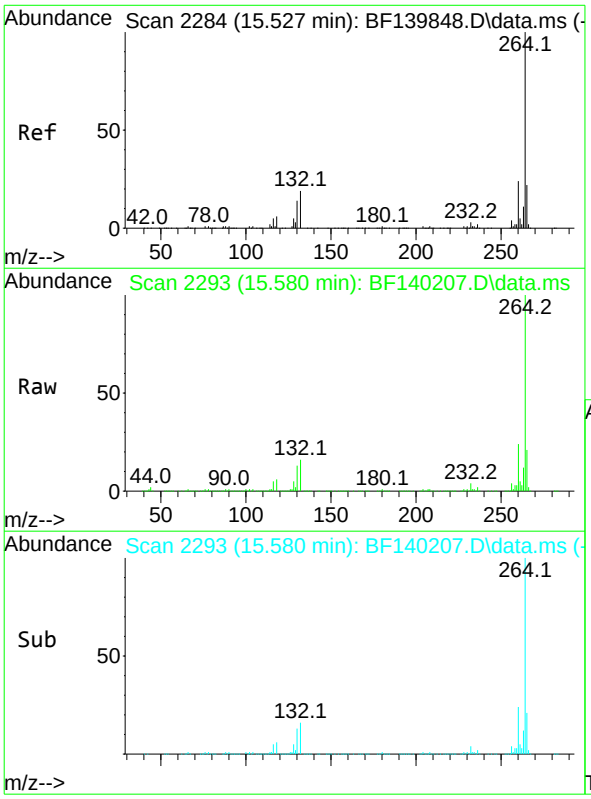
#79
Terphenyl-d14
Concen: 54.215 ng
RT: 13.010 min Scan# 18
Delta R.T. 0.012 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Instrument :
BNA_F
ClientSampleId :
WB-305-SW-1RE

Tgt Ion:244 Resp: 1531195

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.7	8.5
122	10.5	8.6	13.0

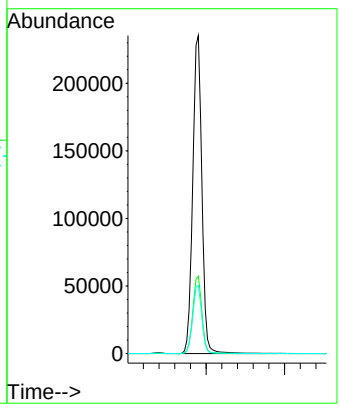




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.580 min Scan# 2293
Delta R.T. 0.053 min
Lab File: BF140207.D
Acq: 01 Nov 2024 12:33

Tgt Ion:264 Resp: 381772

Ion	Ratio	Lower	Upper
264	100		
260	24.3	19.4	29.2
265	21.4	17.4	26.0



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Oct 30 15:07:37 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

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.881	152	110861	20.000	ng		-0.01
21) Naphthalene-d8	8.163	136	423380	20.000	ng		-0.01
39) Acenaphthene-d10	9.922	164	224222	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	363381	20.000	ng		0.00
76) Chrysene-d12	14.069	240	172346	20.000	ng		0.02
86) Perylene-d12	15.580	264	220971	20.000	ng		0.05
System Monitoring Compounds							
5) 2-Fluorophenol	5.498	112	568333	80.255	ng		0.00
7) Phenol-d6	6.498	99	721823	78.701	ng		-0.01
23) Nitrobenzene-d5	7.440	82	475473	62.243	ng		-0.01
42) 2,4,6-Tribromophenol	10.716	330	165073	78.707	ng		0.00
45) 2-Fluorobiphenyl	9.239	172	788942	58.151	ng		-0.01
79) Terphenyl-d14	13.010	244	641093	60.613	ng		0.01
Target Compounds							Qvalue
31) Naphthalene	8.181	128	75308	3.449	ng		99
37) 2-Methylnaphthalene	8.875	142	41754	3.122	ng		96
38) 1-Methylnaphthalene	8.975	142	44934	3.425	ng		98
52) Acenaphthene	9.957	154	35905	3.054	ng		94
58) Fluorene	10.469	166	33528	2.610	ng	#	95
71) Phenanthrene	11.439	178	177240	10.326	ng		100
72) Anthracene	11.492	178	73441	4.385	ng		98
75) Fluoranthene	12.633	202	169924	9.793	ng		98
78) Pyrene	12.863	202	207813	13.775	ng		99
81) Benzo(a)anthracene	14.057	228	100152	8.927	ng	#	78
83) Chrysene	14.092	228	95672	9.301	ng	#	94
87) Indeno(1,2,3-cd)pyrene	17.098	276	42053	2.958	ng		97
88) Benzo(b)fluoranthene	15.139	252	86587m	6.433	ng		
89) Benzo(k)fluoranthene	15.157	252	29472m	2.539	ng		
90) Benzo(a)pyrene	15.515	252	94161	8.501	ng		96
92) Benzo(g,h,i)perylene	17.551	276	43282	3.654	ng		97

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

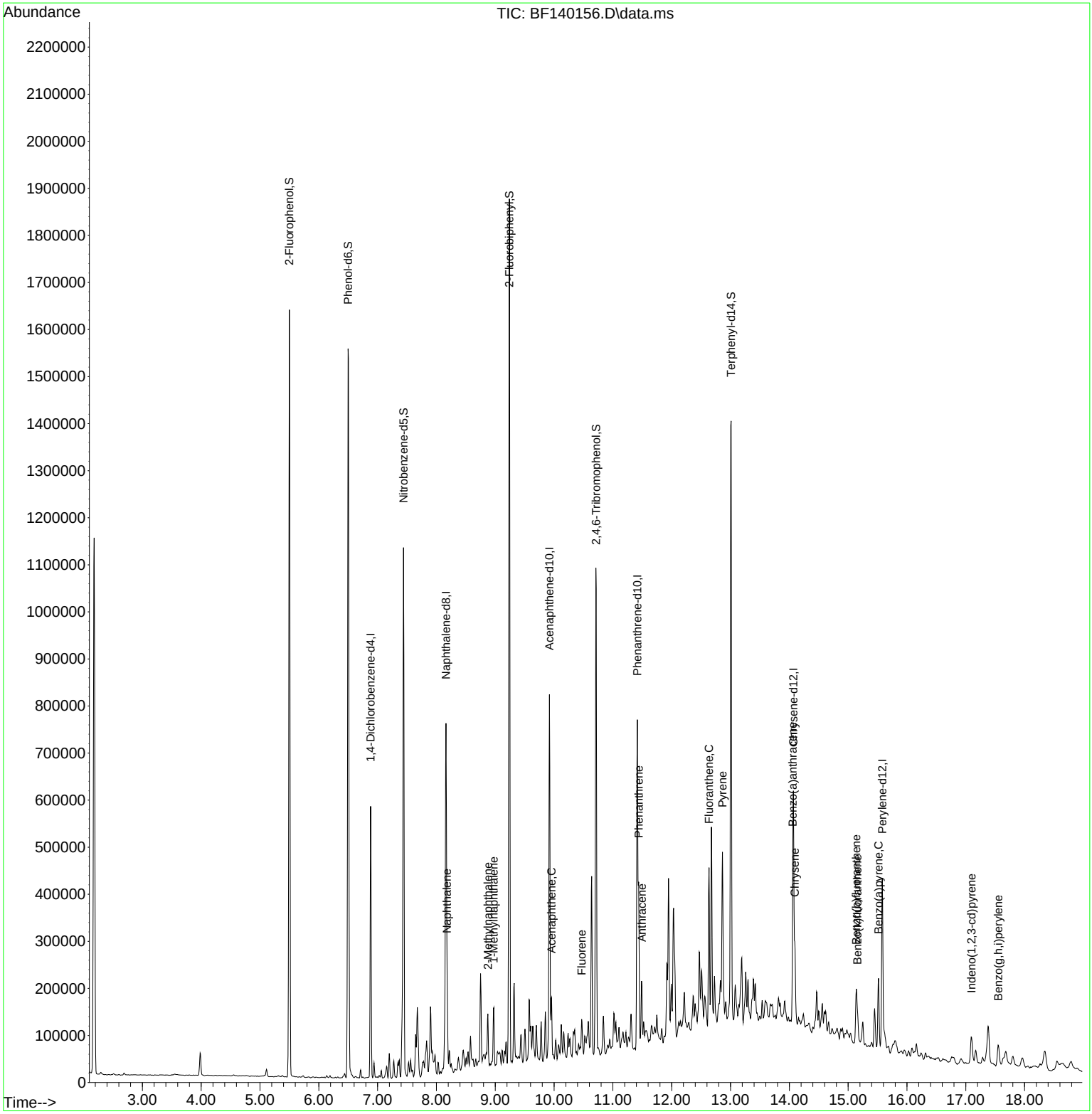
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

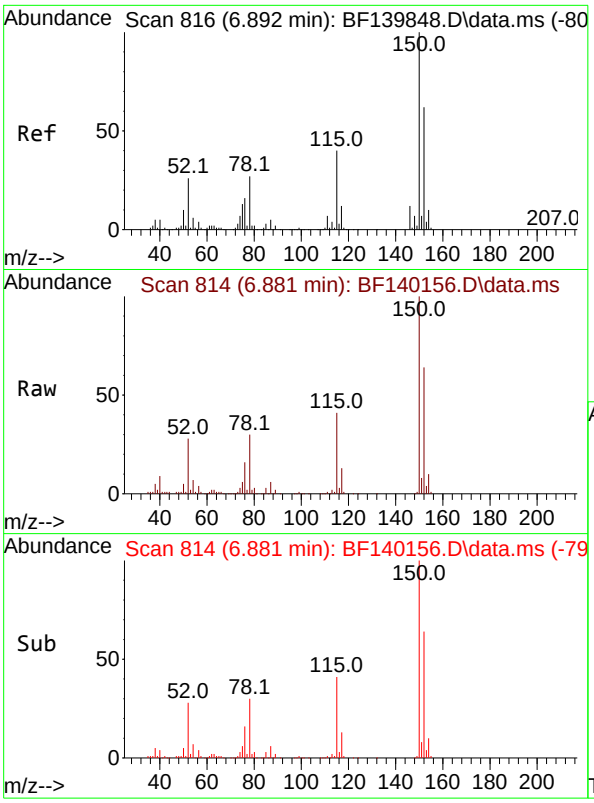
Quant Time: Oct 30 15:07:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Oct 18 15:07:50 2024
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

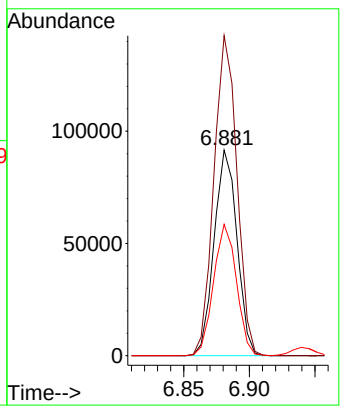




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 8
Delta R.T. -0.011 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:152 Resp: 11086

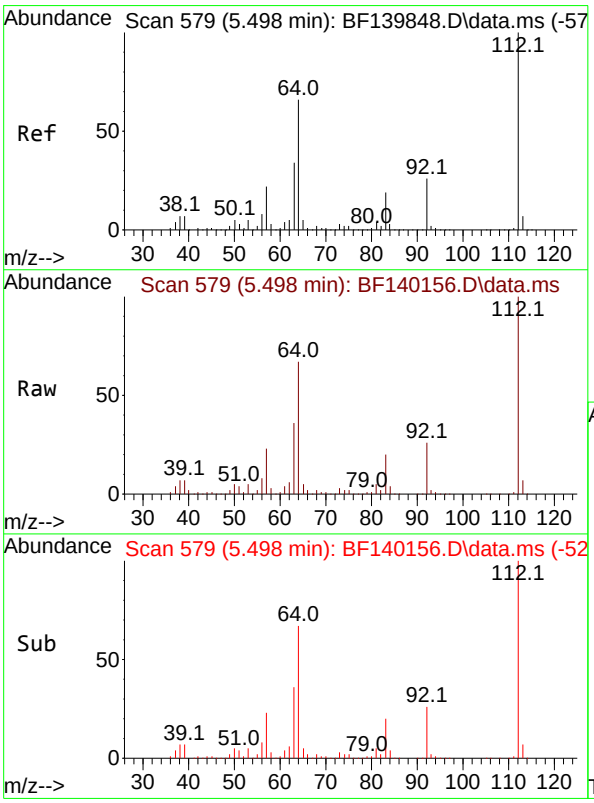
Ion	Ratio	Lower	Upper
152	100		
150	155.6	130.2	195.2
115	63.9	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Manual Integrations
APPROVED

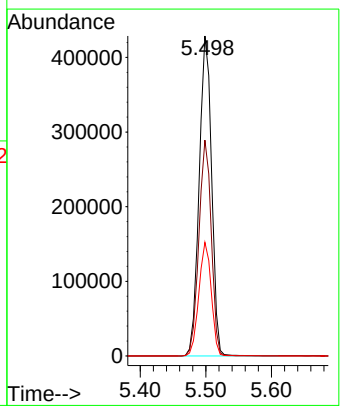
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

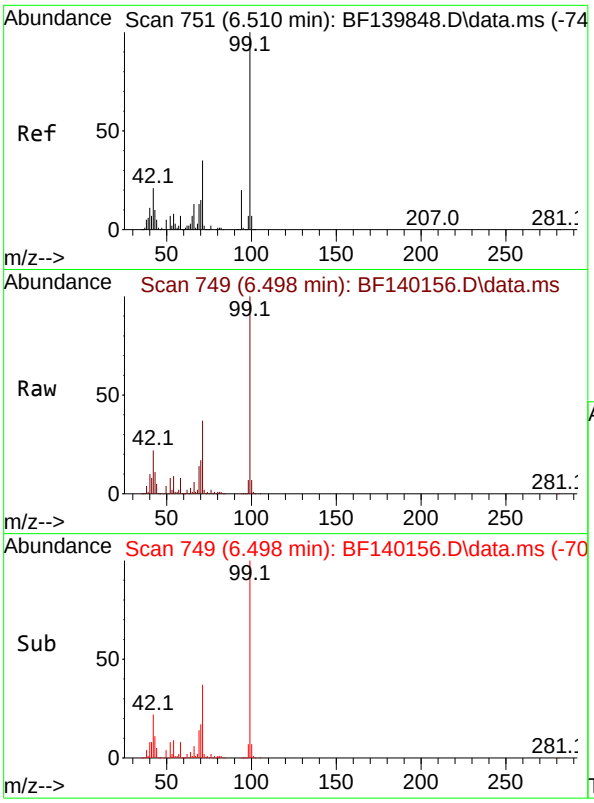


#5
2-Fluorophenol
Concen: 80.255 ng
RT: 5.498 min Scan# 579
Delta R.T. 0.000 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:112 Resp: 568333

Ion	Ratio	Lower	Upper
112	100		
64	67.4	53.0	79.6
63	35.5	27.0	40.4

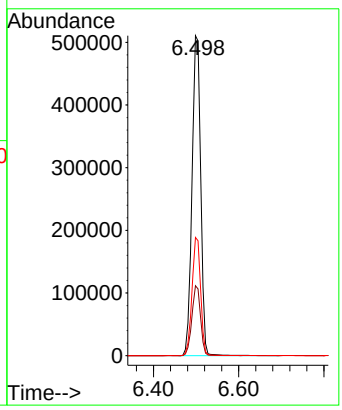




#7
Phenol-d6
Concen: 78.701 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion: 99 Resp: 72182

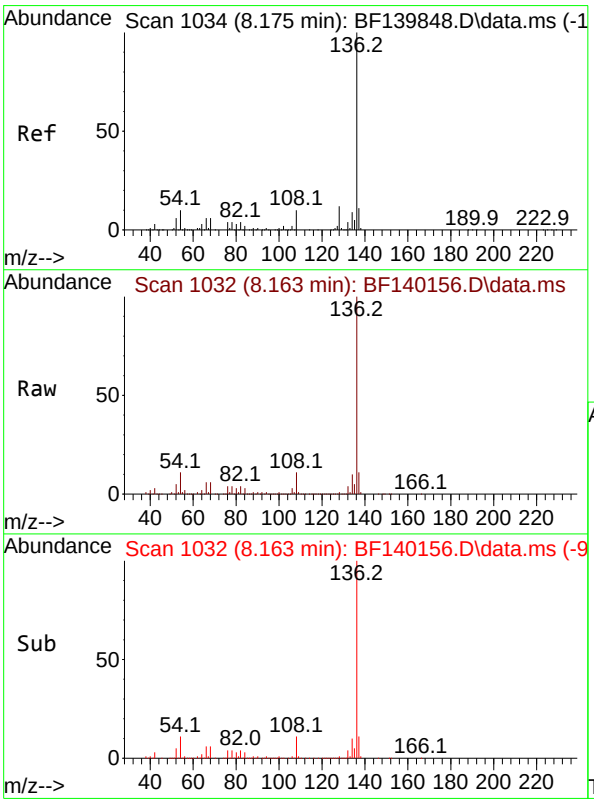
Ion	Ratio	Lower	Upper
99	100		
42	21.9	16.7	25.1
71	36.9	27.7	41.5



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Manual Integrations APPROVED

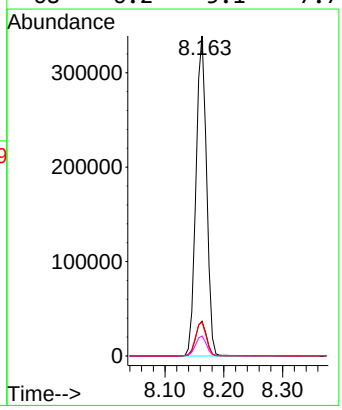
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

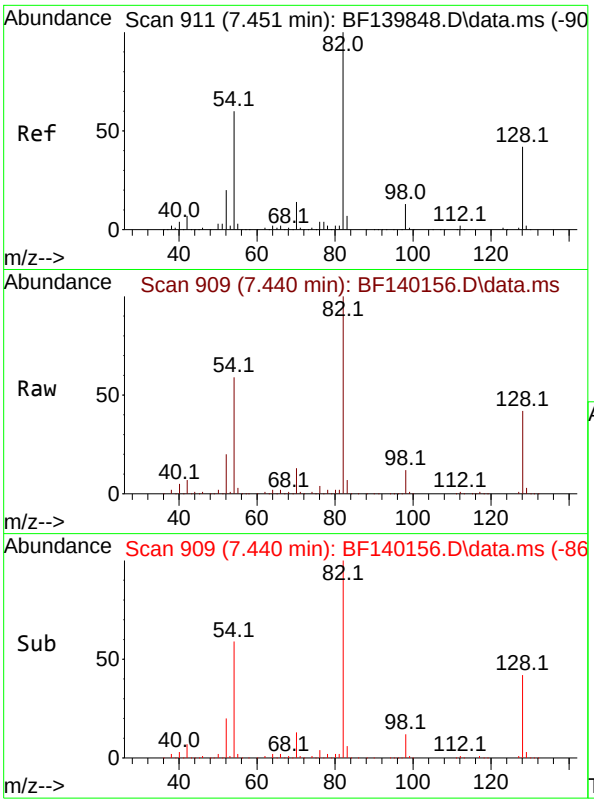


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1032
Delta R.T. -0.012 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:136 Resp: 423380

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	10.5	8.4	12.6
68	6.2	5.1	7.7

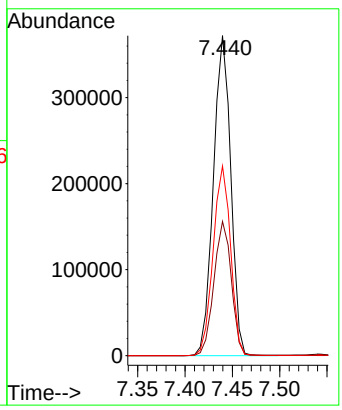




#23
Nitrobenzene-d5
Concen: 62.243 ng
RT: 7.440 min Scan# 9(
Delta R.T. -0.012 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion: 82 Resp: 47547

Ion	Ratio	Lower	Upper
82	100		
128	41.9	33.4	50.0
54	59.2	47.8	71.8



Instrument :
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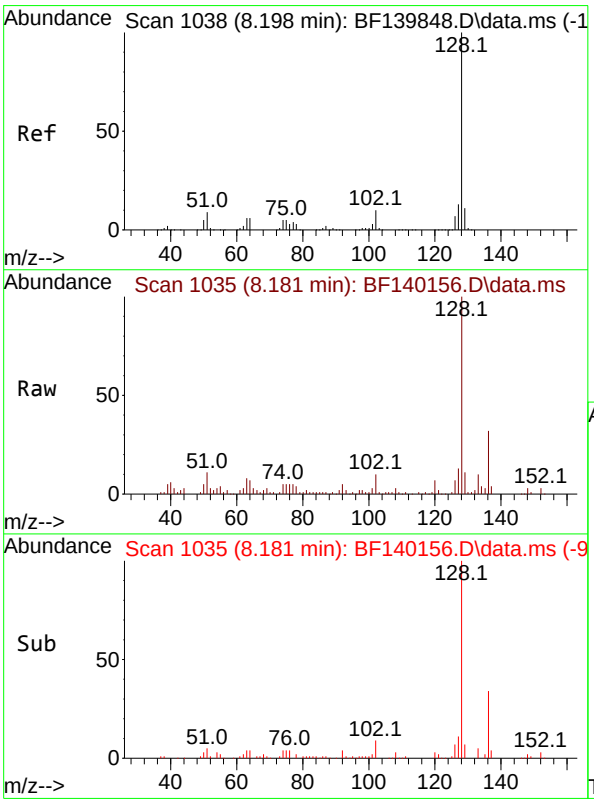
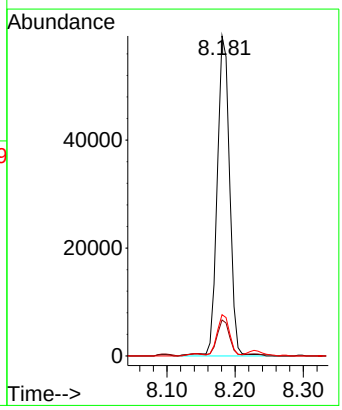
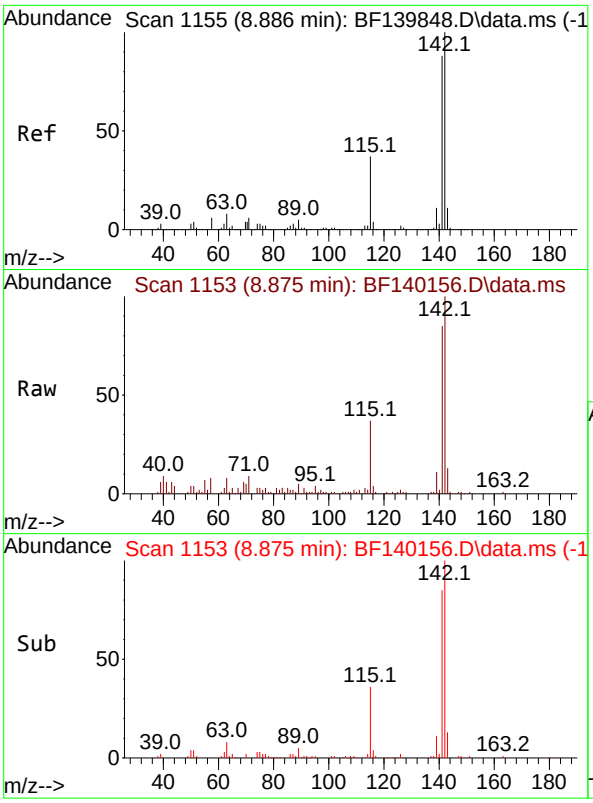


#31
Naphthalene
Concen: 3.449 ng
RT: 8.181 min Scan# 1035
Delta R.T. -0.017 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:128 Resp: 75308

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.9	13.3
127	12.9	10.6	16.0

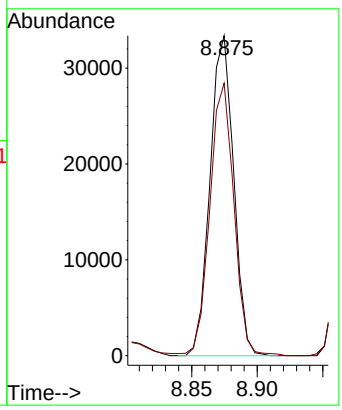




#37
2-Methylnaphthalene
Concen: 3.122 ng
RT: 8.875 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:142 Resp: 4175

Ion	Ratio	Lower	Upper
142	100		
141	85.2	70.8	106.2



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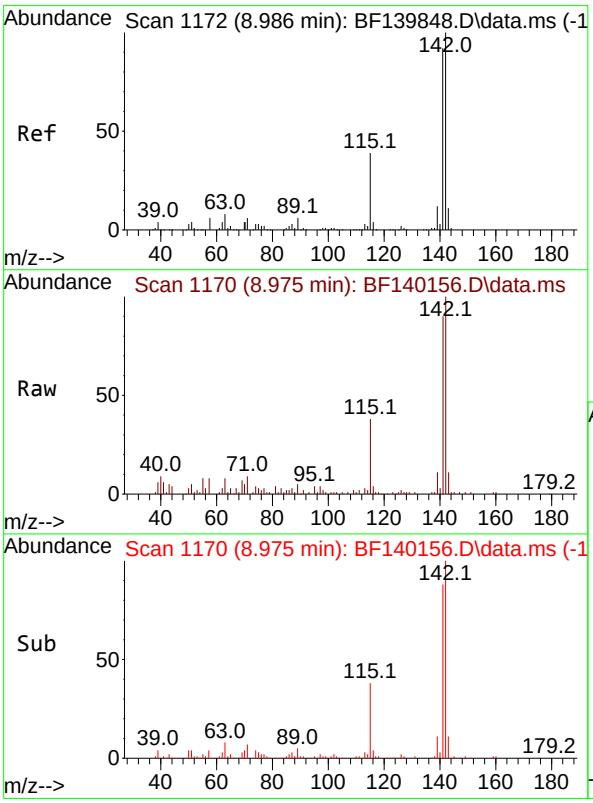
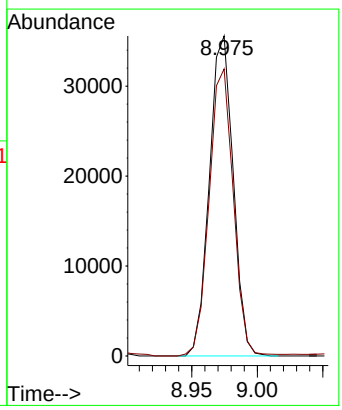
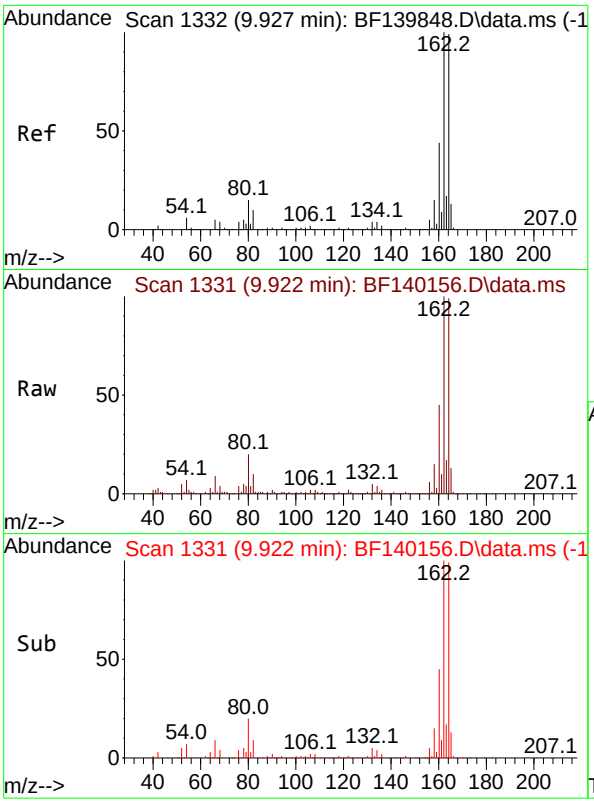


#38
1-Methylnaphthalene
Concen: 3.425 ng
RT: 8.975 min Scan# 1170
Delta R.T. -0.012 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:142 Resp: 44934

Ion	Ratio	Lower	Upper
142	100		
141	89.7	73.5	110.3

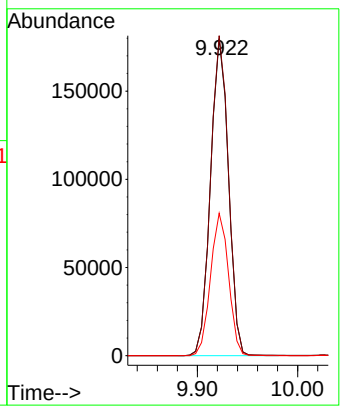




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.005 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:164 Resp: 22422

Ion	Ratio	Lower	Upper
164	100		
162	100.9	81.0	121.4
160	44.9	35.4	53.0



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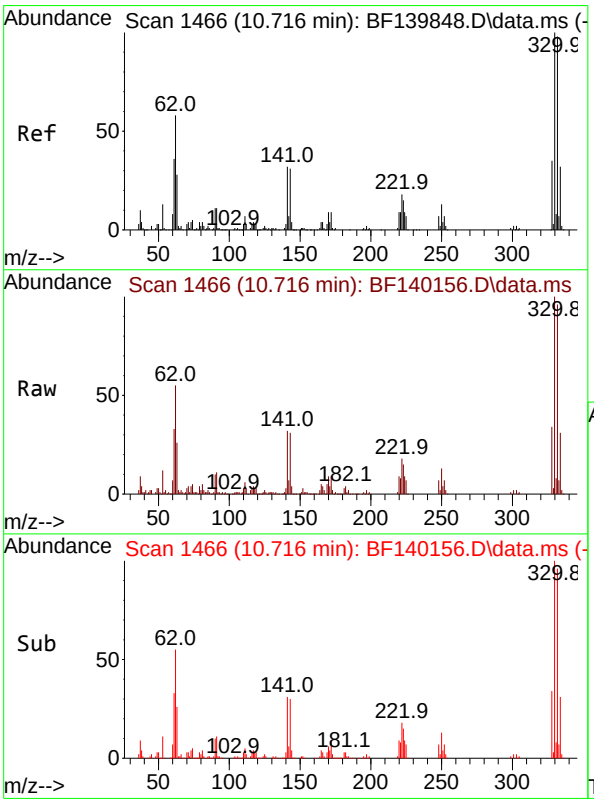
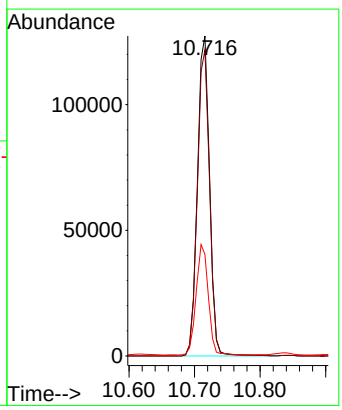
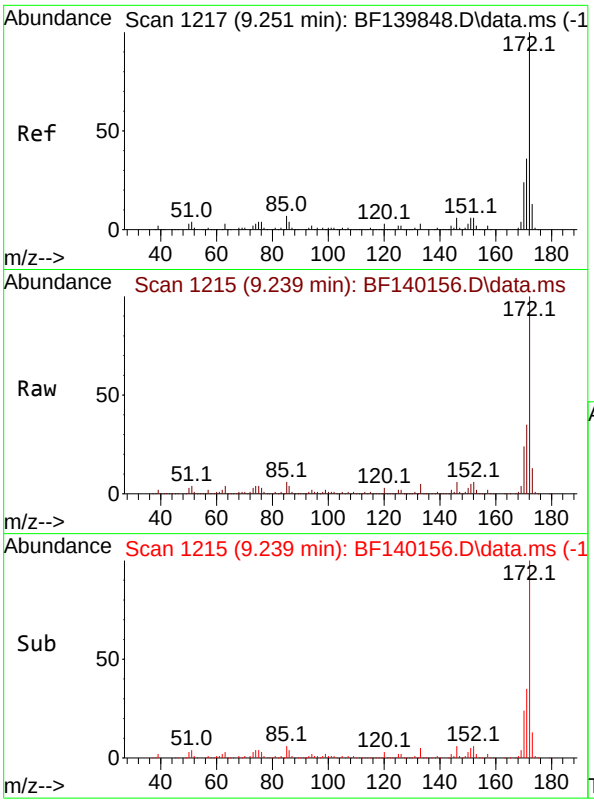


#42
2,4,6-Tribromophenol
Concen: 78.707 ng
RT: 10.716 min Scan# 1466
Delta R.T. 0.000 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:330 Resp: 165073

Ion	Ratio	Lower	Upper
330	100		
332	95.5	78.1	117.1
141	34.2	26.6	39.8

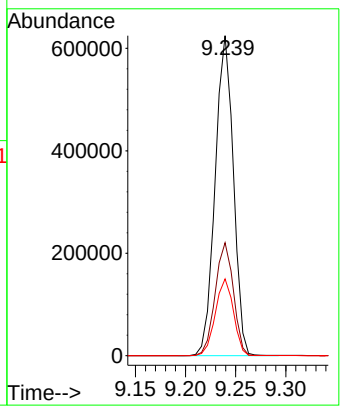




#45
2-Fluorobiphenyl
Concen: 58.151 ng
RT: 9.239 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:172 Resp: 78894

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.6	43.0
170	24.0	19.1	28.7



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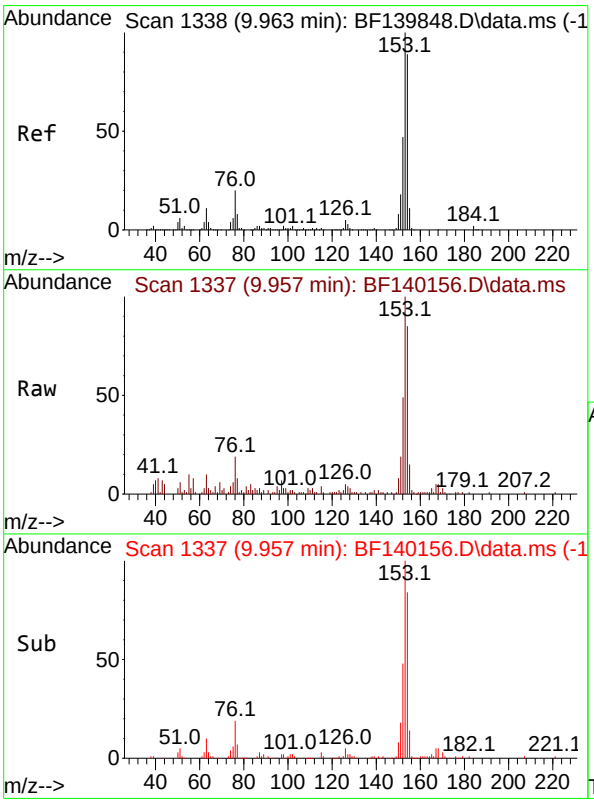
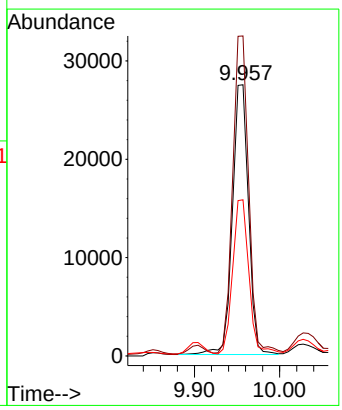
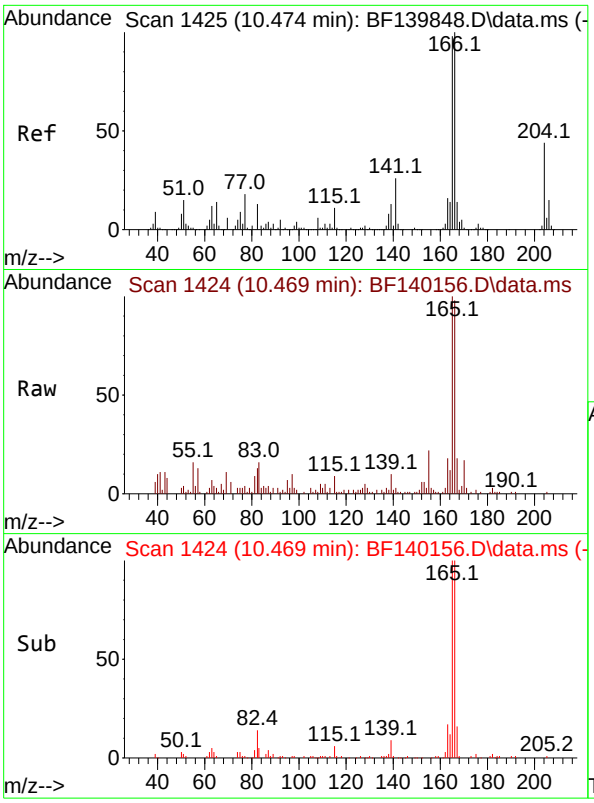


#52
Acenaphthene
Concen: 3.054 ng
RT: 9.957 min Scan# 1337
Delta R.T. -0.006 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:154 Resp: 35905

Ion	Ratio	Lower	Upper
154	100		
153	118.0	89.8	134.6
152	57.6	42.4	63.6

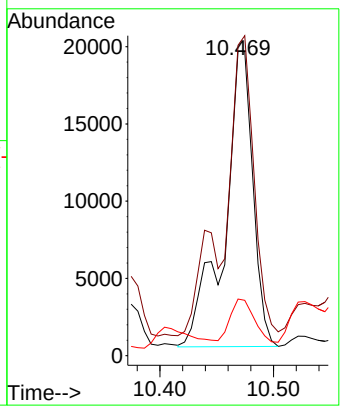




#58
Fluorene
Concen: 2.610 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:166 Resp: 3352

Ion	Ratio	Lower	Upper
166	100		
165	102.0	78.5	117.7
167	18.6	10.9	16.3



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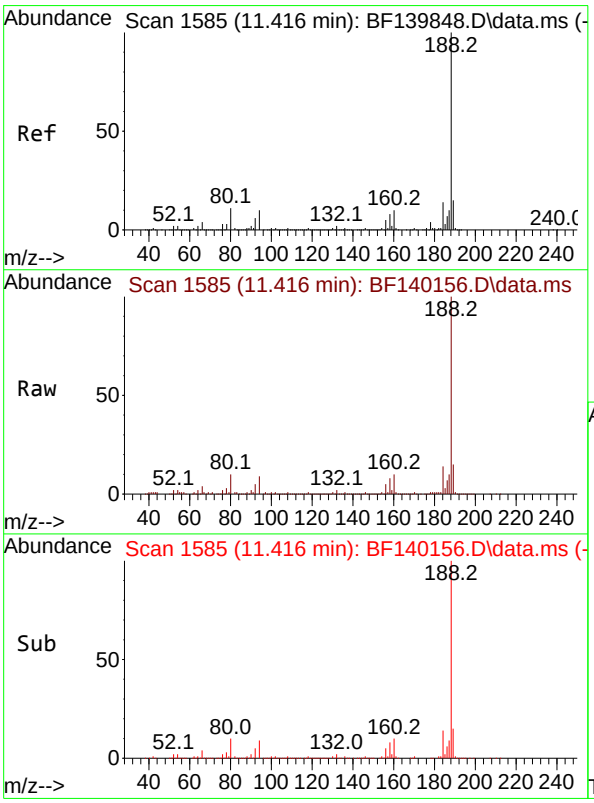
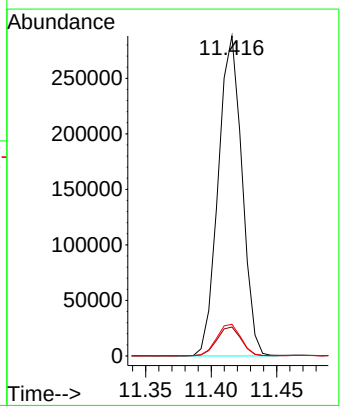
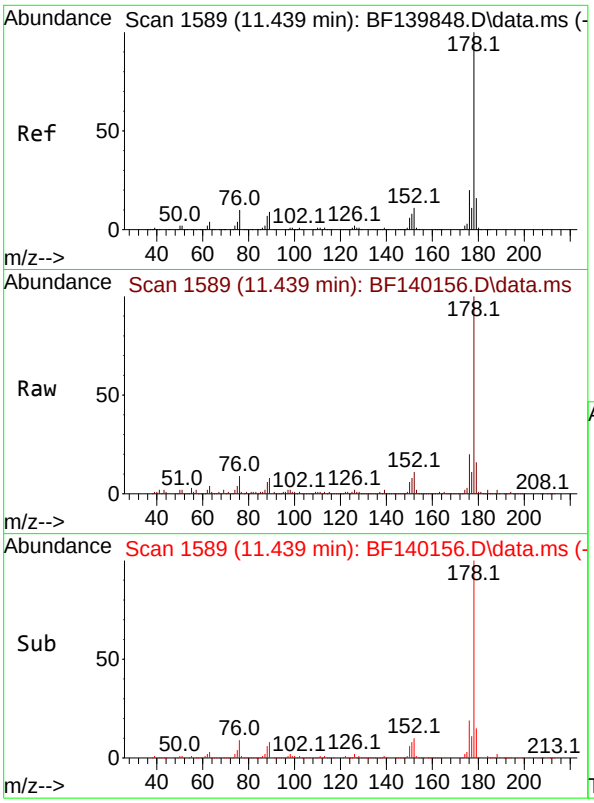


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1585
Delta R.T. 0.000 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:188 Resp: 363381

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

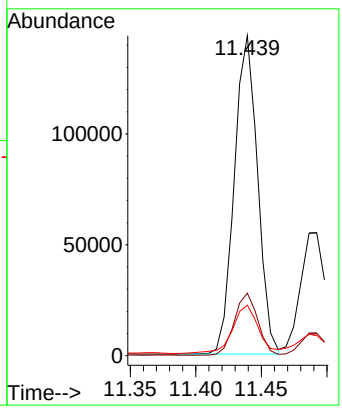




#71
Phenanthrene
Concen: 10.326 ng
RT: 11.439 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:178 Resp: 17724

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.8	23.6
179	15.8	12.6	18.8



Instrument :
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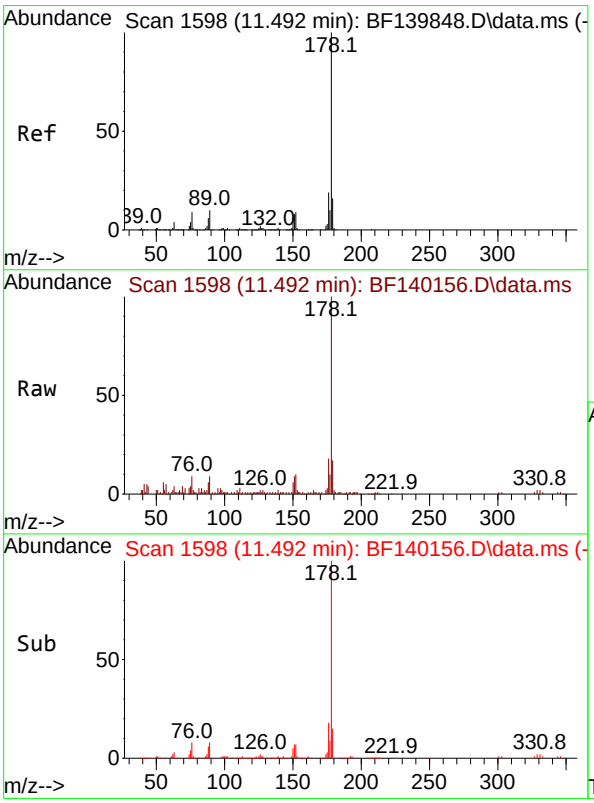
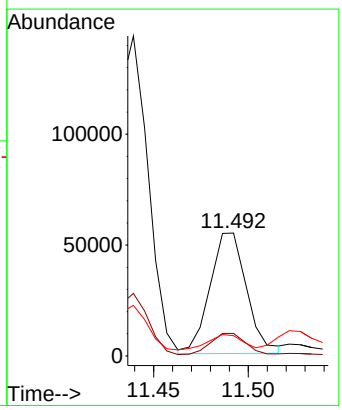
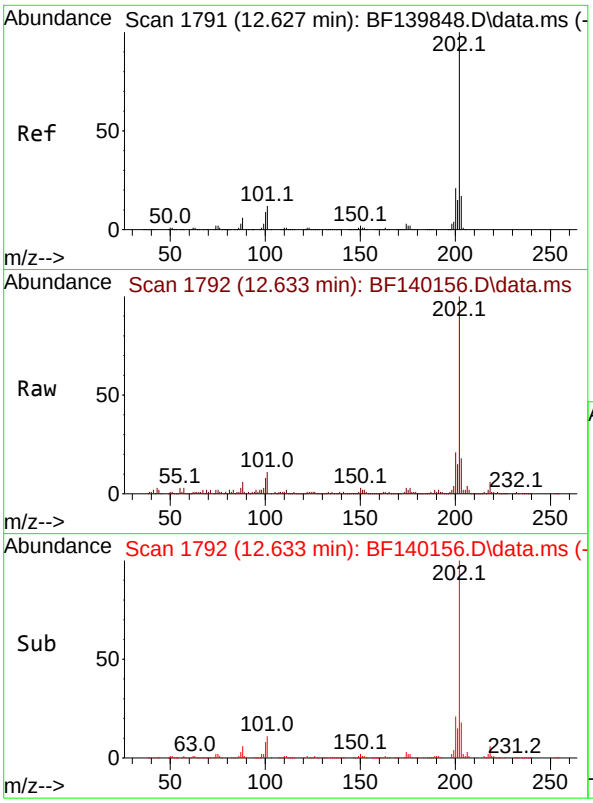


#72
Anthracene
Concen: 4.385 ng
RT: 11.492 min Scan# 1598
Delta R.T. 0.000 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:178 Resp: 73441

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.3	22.9
179	16.6	12.4	18.6

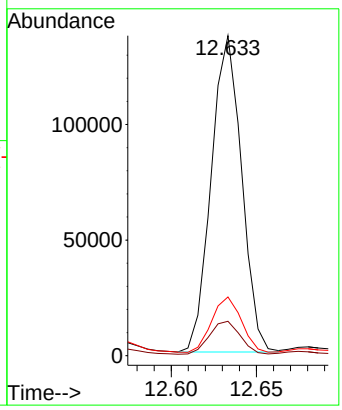




#75
Fluoranthene
Concen: 9.793 ng
RT: 12.633 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:202 Resp: 16992

Ion	Ratio	Lower	Upper
202	100		
101	10.7	0.0	31.9
203	18.4	0.0	37.5



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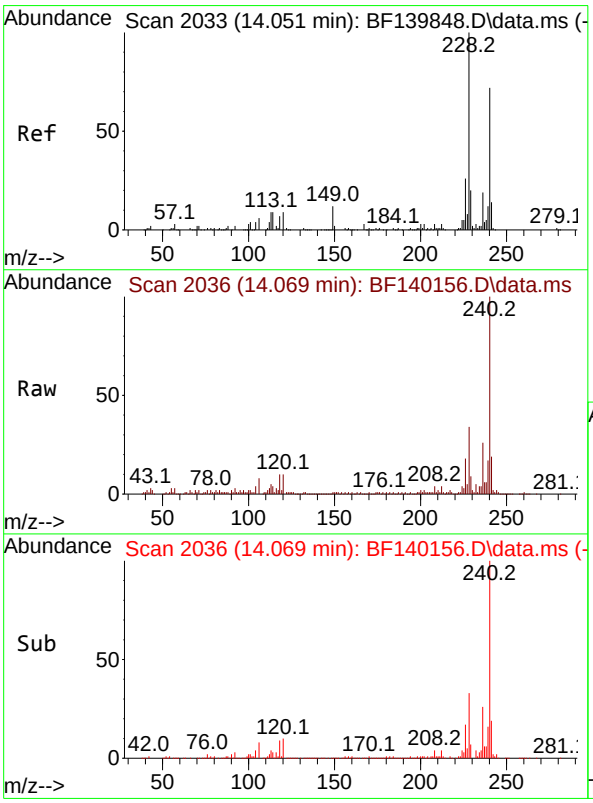
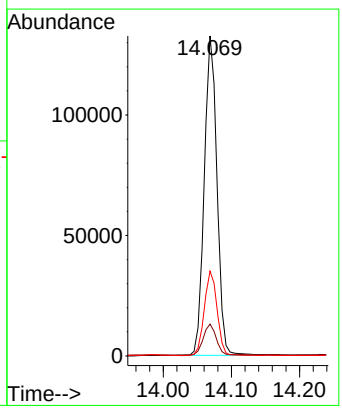
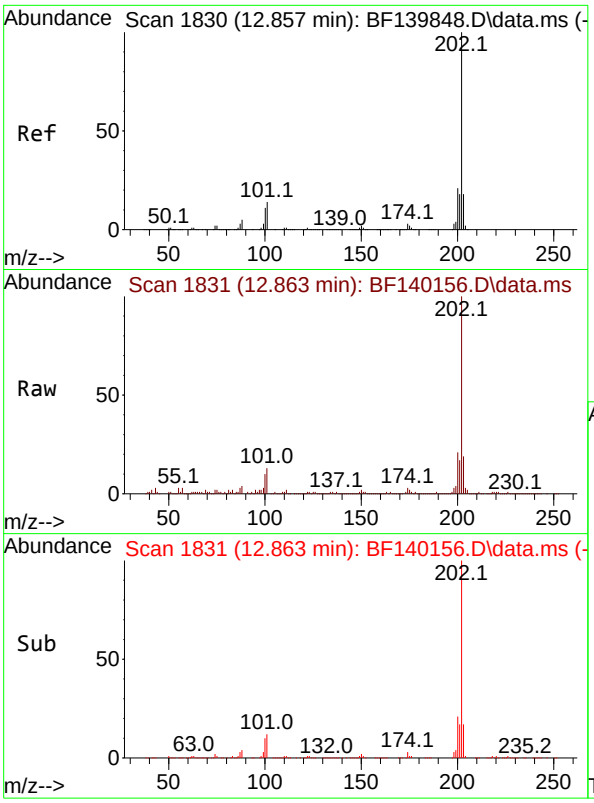


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.069 min Scan# 2036
Delta R.T. 0.018 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:240 Resp: 172346

Ion	Ratio	Lower	Upper
240	100		
120	9.9	9.4	14.2
236	26.5	20.9	31.3

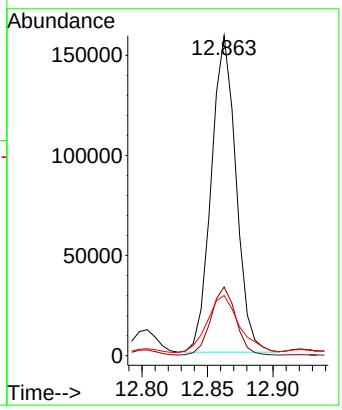




#78
Pyrene
Concen: 13.775 ng
RT: 12.863 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:202 Resp: 20781

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.2	25.8
203	18.8	14.2	21.4



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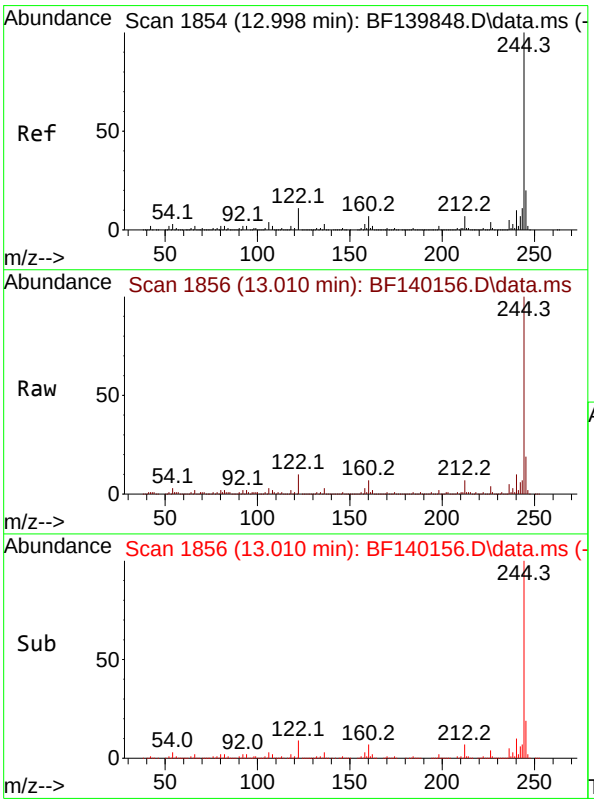
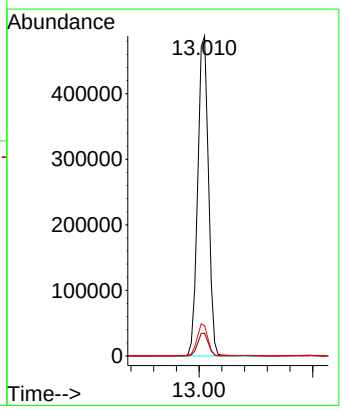
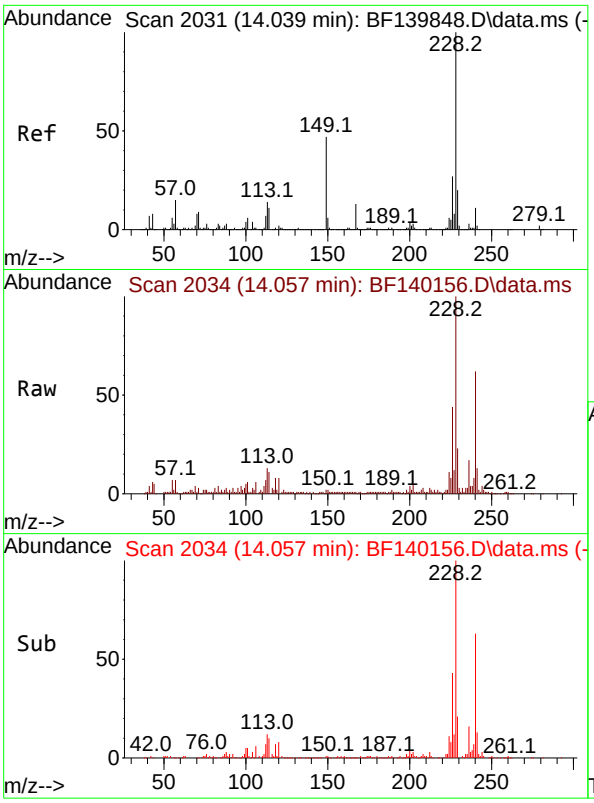


#79
Terphenyl-d14
Concen: 60.613 ng
RT: 13.010 min Scan# 1856
Delta R.T. 0.012 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:244 Resp: 641093

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.7	8.5
122	9.5	8.6	13.0

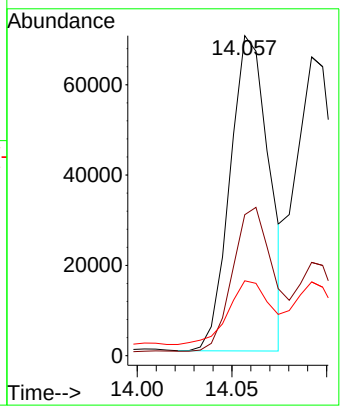




#81
Benzo(a)anthracene
Concen: 8.927 ng
RT: 14.057 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:228 Resp: 10015

Ion	Ratio	Lower	Upper
228	100		
226	44.1	21.6	32.4#
229	23.4	16.1	24.1



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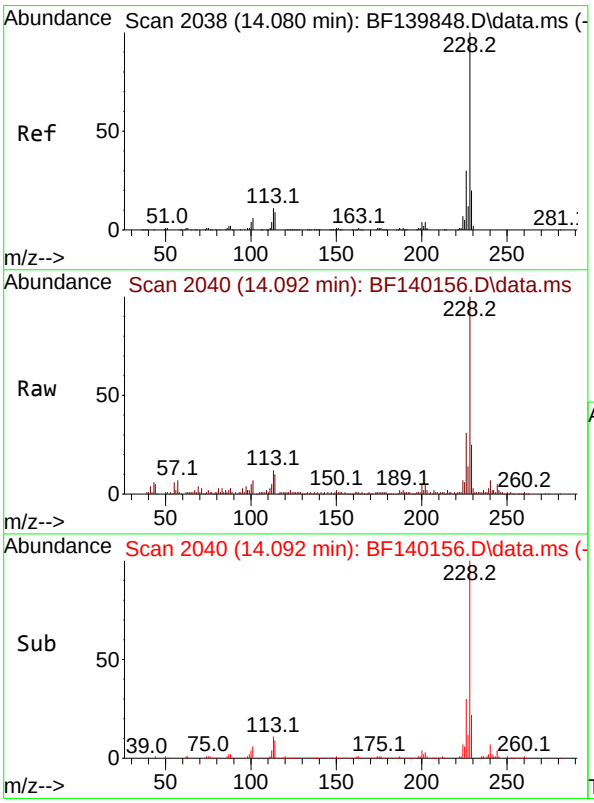
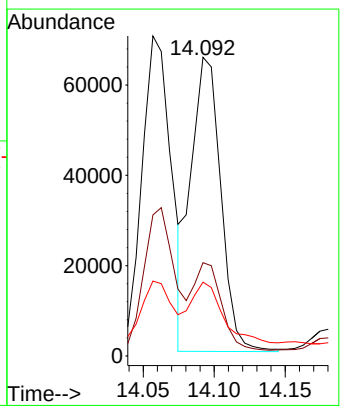
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

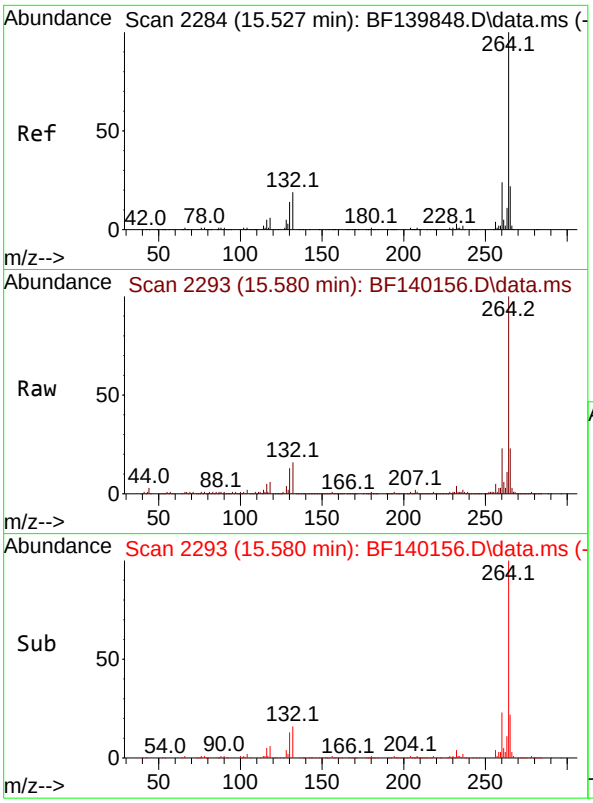


#83
Chrysene
Concen: 9.301 ng
RT: 14.092 min Scan# 2040
Delta R.T. 0.012 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:228 Resp: 95672

Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.1	36.1
229	24.7	15.8	23.6#

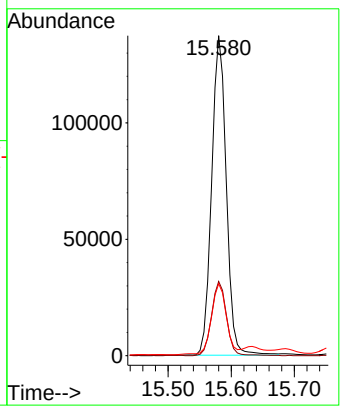




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.580 min Scan# 2
Delta R.T. 0.053 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:264 Resp: 22097

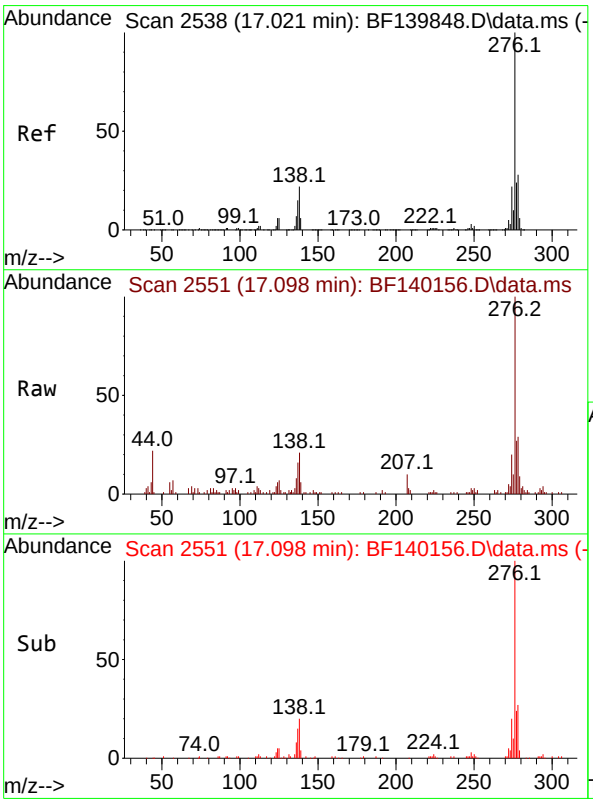
Ion	Ratio	Lower	Upper
264	100		
260	23.2	19.4	29.2
265	22.5	17.4	26.0



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Manual Integrations
APPROVED

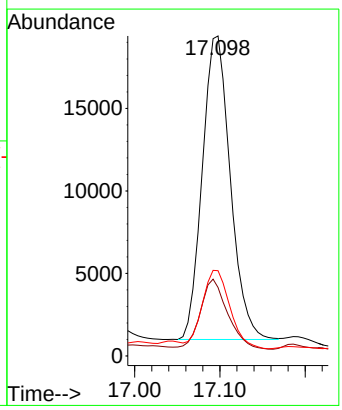
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

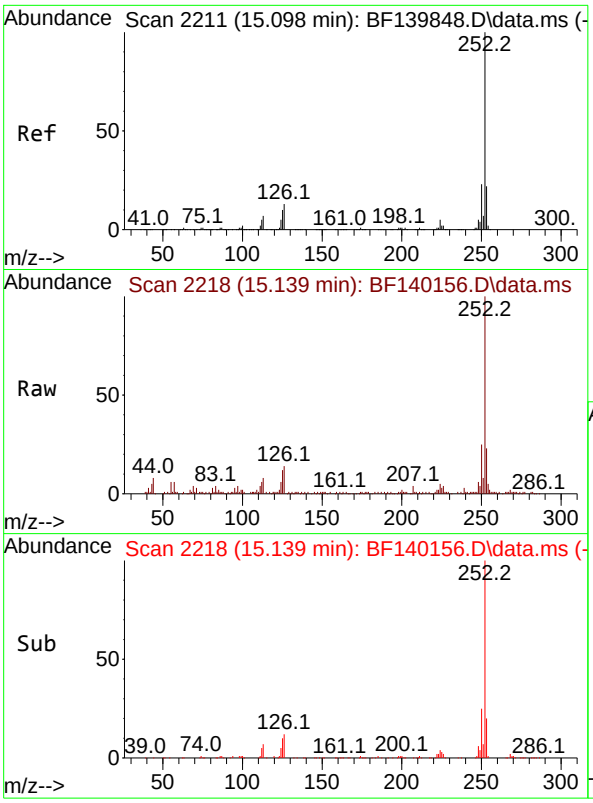


#87
Indeno(1,2,3-cd)pyrene
Concen: 2.958 ng
RT: 17.098 min Scan# 2551
Delta R.T. 0.077 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:276 Resp: 42053

Ion	Ratio	Lower	Upper
276	100		
138	22.6	20.4	30.6
277	25.7	20.2	30.4

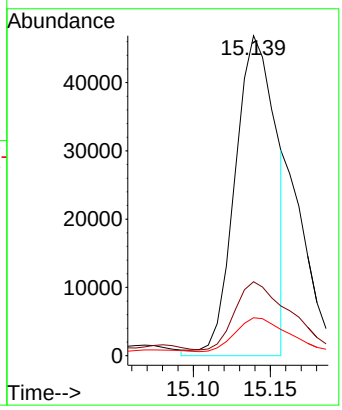




#88
Benzo(b)fluoranthene
Concen: 6.433 ng m
RT: 15.139 min Scan# 2
Delta R.T. 0.041 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:252 Resp: 8658

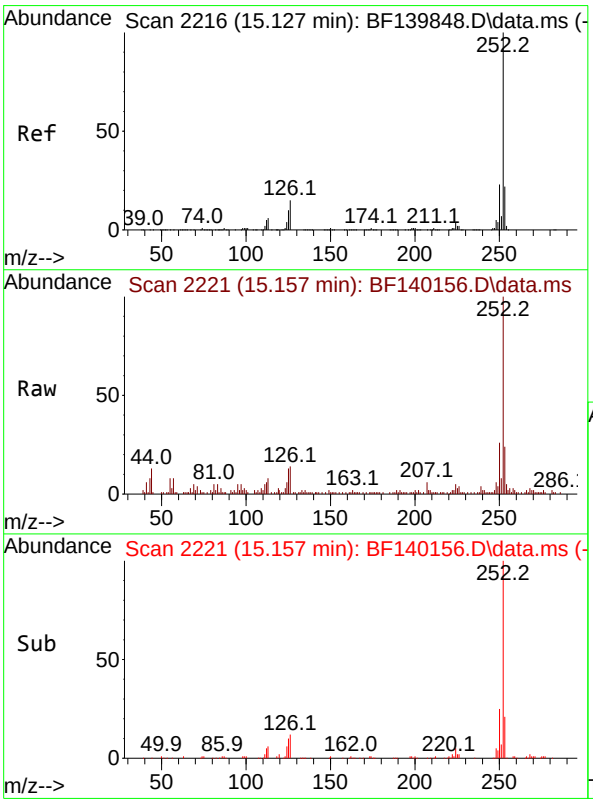
Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.6	26.4
125	11.9	7.9	11.9



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Manual Integrations APPROVED

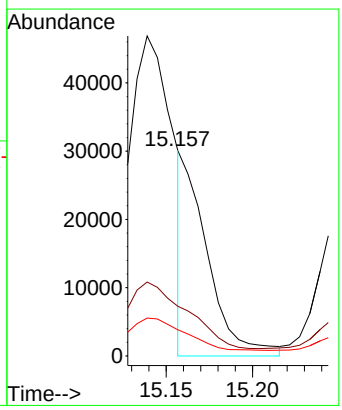
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

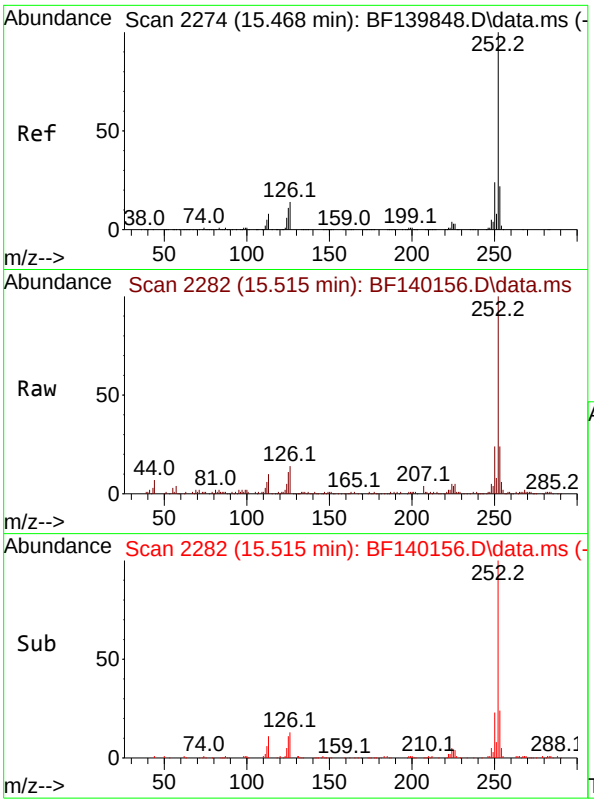


#89
Benzo(k)fluoranthene
Concen: 2.539 ng m
RT: 15.157 min Scan# 2221
Delta R.T. 0.030 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:252 Resp: 29472

Ion	Ratio	Lower	Upper
252	100		
253	24.2	17.6	26.4
125	12.8	7.9	11.9#

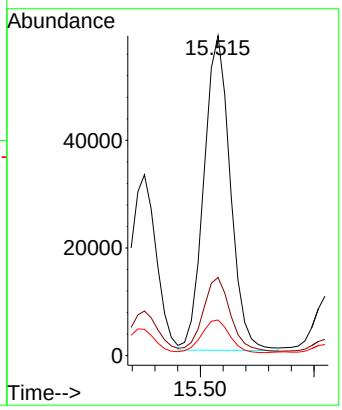




#90
Benzo(a)pyrene
Concen: 8.501 ng
RT: 15.515 min Scan# 2
Delta R.T. 0.047 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:252 Resp: 9416

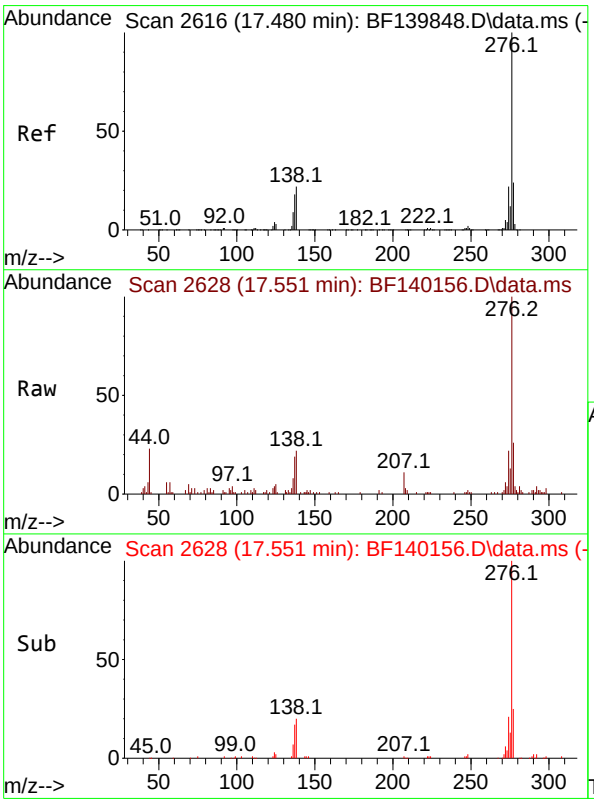
Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.3	25.9
125	11.2	8.7	13.1



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

Manual Integrations
APPROVED

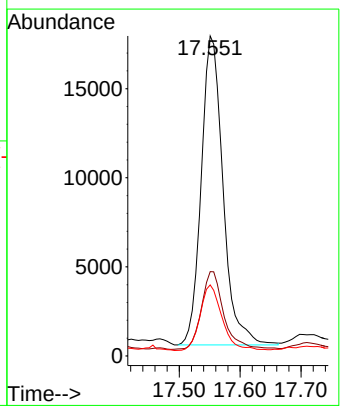
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



#92
Benzo(g,h,i)perylene
Concen: 3.654 ng
RT: 17.551 min Scan# 2628
Delta R.T. 0.071 min
Lab File: BF140156.D
Acq: 30 Oct 2024 14:41

Tgt Ion:276 Resp: 43282

Ion	Ratio	Lower	Upper
276	100		
277	26.4	19.0	28.6
138	22.2	17.4	26.0



Sample Results: **BF140156.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

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

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

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

Signal : TIC: BF140156.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.181	7	15	26	rVB	1139608	1813109	78.14%	5.927%
2	3.981	316	321	333	rVB	48257	79826	3.44%	0.261%
3	5.498	573	579	584	rBV	1629989	2148736	92.61%	7.024%
4	6.498	743	749	755	rBV	1549152	2219830	95.67%	7.256%
5	6.881	809	814	819	rBV	575806	696360	30.01%	2.276%
6	6.940	820	824	828	rBV	31671	38222	1.65%	0.125%
7	7.151	850	860	864	rBV3	24936	45790	1.97%	0.150%
8	7.198	864	868	874	rVB	52983	66791	2.88%	0.218%
9	7.275	874	881	889	rBV	37299	56356	2.43%	0.184%
10	7.345	889	893	895	rBV	31648	44372	1.91%	0.145%
11	7.440	900	909	914	rBV	1124707	1568450	67.60%	5.127%
12	7.528	919	924	927	rBV4	30086	46647	2.01%	0.152%
13	7.645	938	944	946	rBV	89646	121968	5.26%	0.399%
14	7.675	946	949	958	rVB2	148143	258406	11.14%	0.845%
15	7.763	958	964	965	rBV2	31487	40037	1.73%	0.131%
16	7.834	970	976	980	rVB3	66133	122806	5.29%	0.401%
17	7.898	980	987	991	rBV2	138606	234344	10.10%	0.766%
18	7.975	997	1000	1006	rVB2	40914	63277	2.73%	0.207%
19	8.163	1024	1032	1039	rBV2	735066	1211555	52.22%	3.960%
20	8.216	1039	1041	1045	rVV	43451	56713	2.44%	0.185%
21	8.375	1063	1068	1074	rVB4	26733	44966	1.94%	0.147%
22	8.457	1074	1082	1087	rBV5	42929	89434	3.85%	0.292%
23	8.581	1099	1103	1108	rBV	61934	87960	3.79%	0.288%
24	8.751	1127	1132	1136	rVV	187480	224222	9.66%	0.733%
25	8.810	1136	1142	1145	rVV7	18763	45121	1.94%	0.147%
26	8.875	1149	1153	1157	rVB	109572	138694	5.98%	0.453%
27	8.975	1165	1170	1174	rVB	122813	161448	6.96%	0.528%
28	9.039	1177	1181	1184	rBV3	28492	51062	2.20%	0.167%
29	9.186	1203	1206	1209	rVB	45507	54440	2.35%	0.178%
30	9.239	1209	1215	1220	rBV	1836985	2320319	100.00%	7.584%
31	9.322	1224	1229	1234	rBV	167587	233406	10.06%	0.763%
32	9.439	1244	1249	1254	rVB	58606	93637	4.04%	0.306%
33	9.504	1254	1260	1264	rBV	70816	112777	4.86%	0.369%
34	9.575	1268	1272	1275	rVV	129258	191144	8.24%	0.625%
35	9.604	1275	1277	1280	rVV	72033	85638	3.69%	0.280%
36	9.639	1280	1283	1289	rVV3	70631	118034	5.09%	0.386%

Sample Results: **BF140156.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

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

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

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

37	9.698	1289	1293	1302	rVB	73504	109800	4.73%	0.359%
38	9.781	1303	1307	1312	rVB	84935	110176	4.75%	0.360%
39	9.851	1312	1319	1323	rBV	105735	149389	6.44%	0.488%
40	9.922	1324	1331	1335	rBV	772335	1030064	44.39%	3.367%
41	9.957	1335	1337	1340	rVB	122211	117815	5.08%	0.385%
42	10.028	1345	1349	1353	rVB	40626	59065	2.55%	0.193%
43	10.081	1353	1358	1361	rBV3	30741	54759	2.36%	0.179%
44	10.122	1361	1365	1369	rBV2	61261	78573	3.39%	0.257%
45	10.163	1369	1372	1381	rVB3	55047	81383	3.51%	0.266%
46	10.239	1381	1385	1387	rBV2	51574	66883	2.88%	0.219%
47	10.269	1387	1390	1396	rVB2	38529	50624	2.18%	0.165%
48	10.328	1396	1400	1402	rBV	52812	77476	3.34%	0.253%
49	10.469	1421	1424	1430	rVB2	73573	103046	4.44%	0.337%
50	10.522	1430	1433	1437	rBV	37659	66415	2.86%	0.217%
51	10.581	1440	1443	1447	rVV2	61651	88605	3.82%	0.290%
52	10.639	1448	1453	1459	rVB	378572	498736	21.49%	1.630%
53	10.710	1459	1465	1470	rBV	1033895	1388483	59.84%	4.539%
54	10.839	1482	1487	1493	rVB2	80570	126022	5.43%	0.412%
55	11.016	1513	1517	1520	rVV2	74019	117349	5.06%	0.384%
56	11.051	1520	1523	1526	rVV2	54680	74916	3.23%	0.245%
57	11.104	1529	1532	1536	rVB	42980	51972	2.24%	0.170%
58	11.310	1563	1567	1574	rVB2	74826	113685	4.90%	0.372%
59	11.416	1580	1585	1588	rBV	701627	1059810	45.68%	3.464%
60	11.486	1593	1597	1601	rVV	125535	164549	7.09%	0.538%
61	11.657	1622	1626	1630	rBV5	31113	59778	2.58%	0.195%
62	11.745	1638	1641	1652	rVB	52247	82686	3.56%	0.270%
63	11.833	1653	1656	1659	rVB2	30049	37450	1.61%	0.122%
64	11.916	1666	1670	1672	rBV	154515	199659	8.60%	0.653%
65	11.945	1672	1675	1680	rVV	335354	462993	19.95%	1.513%
66	11.992	1680	1683	1686	rVV	110757	164391	7.08%	0.537%
67	12.033	1686	1690	1698	rVB	273277	575319	24.79%	1.881%
68	12.216	1717	1721	1725	rVB	64028	89567	3.86%	0.293%
69	12.363	1741	1746	1749	rBV2	68325	112158	4.83%	0.367%
70	12.469	1761	1764	1768	rBV	124084	170078	7.33%	0.556%
71	12.510	1768	1771	1776	rVB2	98688	152420	6.57%	0.498%
72	12.563	1777	1780	1788	rVB3	62383	132003	5.69%	0.431%
73	12.633	1788	1792	1795	rBV	335956	423354	18.25%	1.384%
74	12.675	1795	1799	1805	rVV	408029	525065	22.63%	1.716%
75	12.727	1805	1808	1815	rVB	97115	134610	5.80%	0.440%
76	12.827	1822	1825	1827	rBV2	50774	62484	2.69%	0.204%

Sample Results: **BF140156.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

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

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

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

77	12.863	1827	1831	1837	rVB	341847	492129	21.21%	1.609%
78	13.010	1851	1856	1863	rVB	1272155	1735511	74.80%	5.673%
79	13.080	1864	1868	1875	rBV2	73263	137069	5.91%	0.448%
80	13.192	1881	1887	1891	rVB2	138075	262986	11.33%	0.860%
81	13.257	1892	1898	1902	rVV2	103090	183318	7.90%	0.599%
82	13.298	1902	1905	1912	rVB	83710	121628	5.24%	0.398%
83	13.386	1918	1920	1923	rVV2	47227	52889	2.28%	0.173%
84	13.422	1923	1926	1935	rVB	77620	132826	5.72%	0.434%
85	13.539	1943	1946	1949	rBV	38329	41290	1.78%	0.135%
86	14.069	2030	2036	2047	rVB2	496086	1020451	43.98%	3.336%
87	14.463	2100	2103	2107	rVB	60889	81254	3.50%	0.266%
88	14.563	2117	2120	2123	rVB2	41837	51113	2.20%	0.167%
89	15.139	2213	2218	2229	rVV	113691	271135	11.69%	0.886%
90	15.245	2233	2236	2242	rVB	47967	76857	3.31%	0.251%
91	15.451	2266	2271	2276	rVV	81181	128470	5.54%	0.420%
92	15.515	2277	2282	2287	rVV	145895	227402	9.80%	0.743%
93	15.580	2287	2293	2306	rVB	360785	636013	27.41%	2.079%
94	17.092	2545	2550	2558	rBV2	52397	115123	4.96%	0.376%
95	17.168	2558	2563	2571	rVB9	26750	57065	2.46%	0.187%
96	17.380	2591	2599	2610	rVB4	78214	213657	9.21%	0.698%
97	17.551	2621	2628	2636	rBV	44577	107127	4.62%	0.350%
98	17.804	2666	2671	2678	rVB	17705	41383	1.78%	0.135%
99	17.968	2693	2699	2707	rVB	19614	57836	2.49%	0.189%
100	18.345	2756	2763	2775	rVB9	40378	139161	6.00%	0.455%

Sum of corrected areas: 30593200

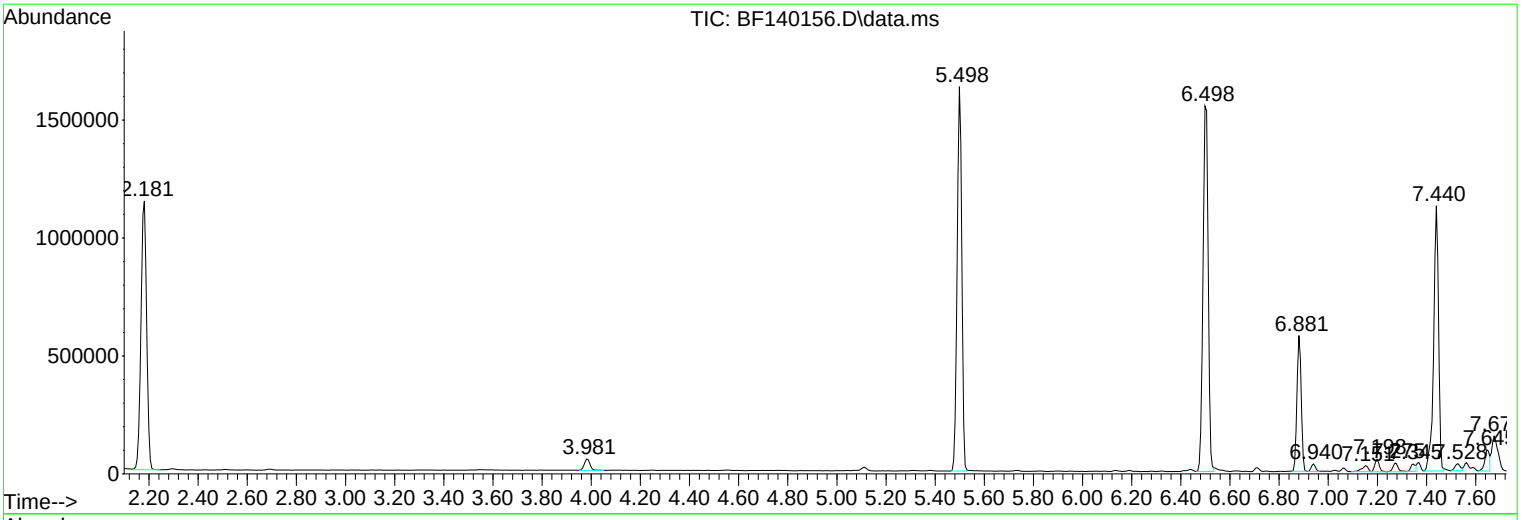
Sample Results: **BF140156.D**

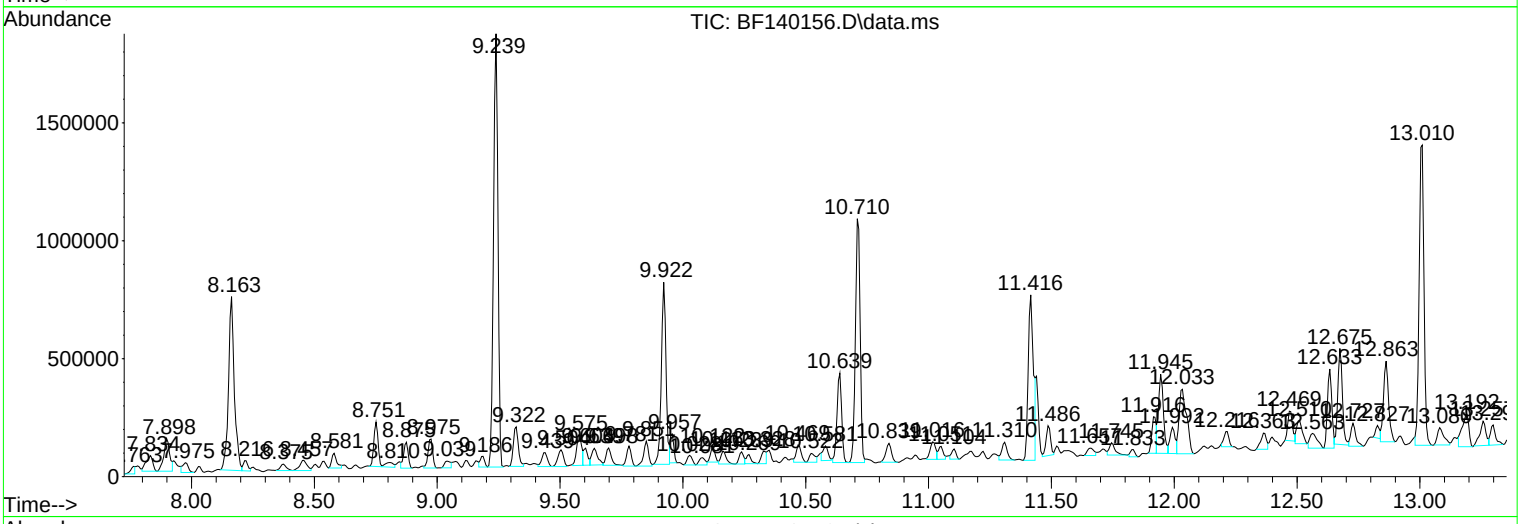
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF103024\
Data File : BF140156.D
Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

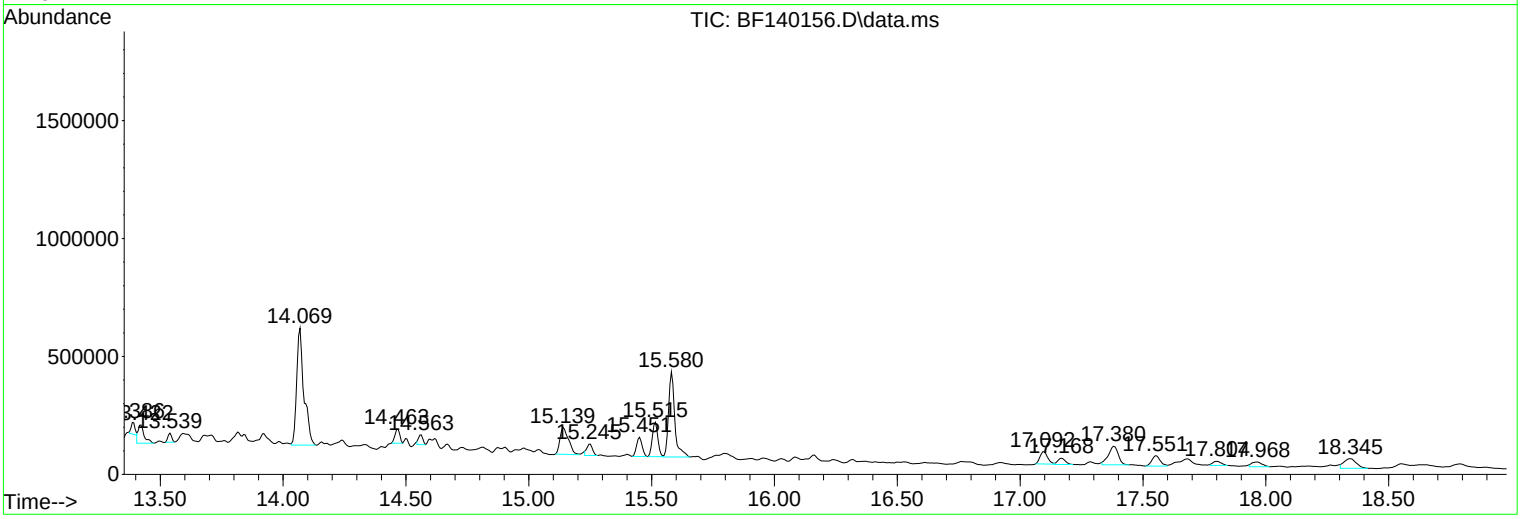
Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

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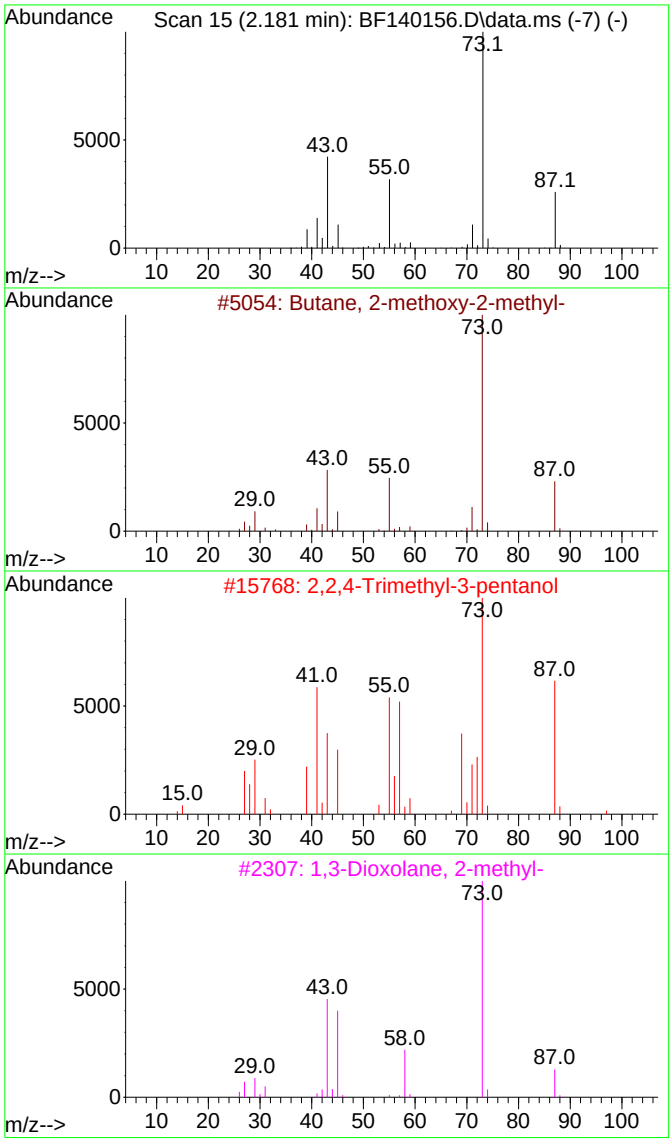
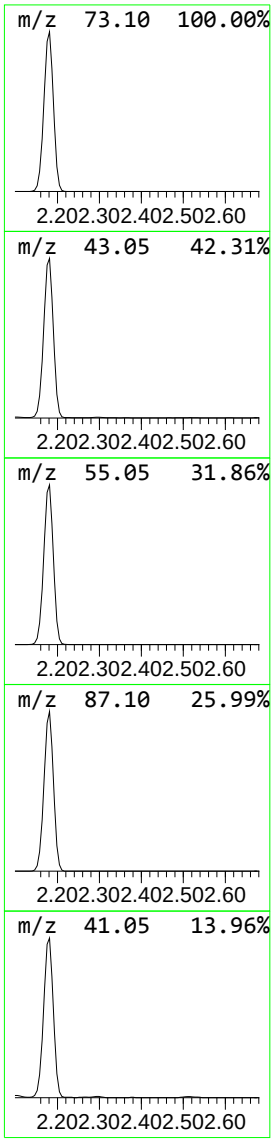
Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.181	52.07 ng	1813110	1,4-Dichlorobenzene-d4	6.881

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 2-methoxy-2-methyl-	102	C6H14O	000994-05-8	83
2	2,2,4-Trimethyl-3-pentanol	130	C8H18O	005162-48-1	40
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	23
4	Pentane, 3-methoxy-	102	C6H14O	036839-67-5	12
5	N-Ethylformamide	73	C3H7NO	000627-45-2	9





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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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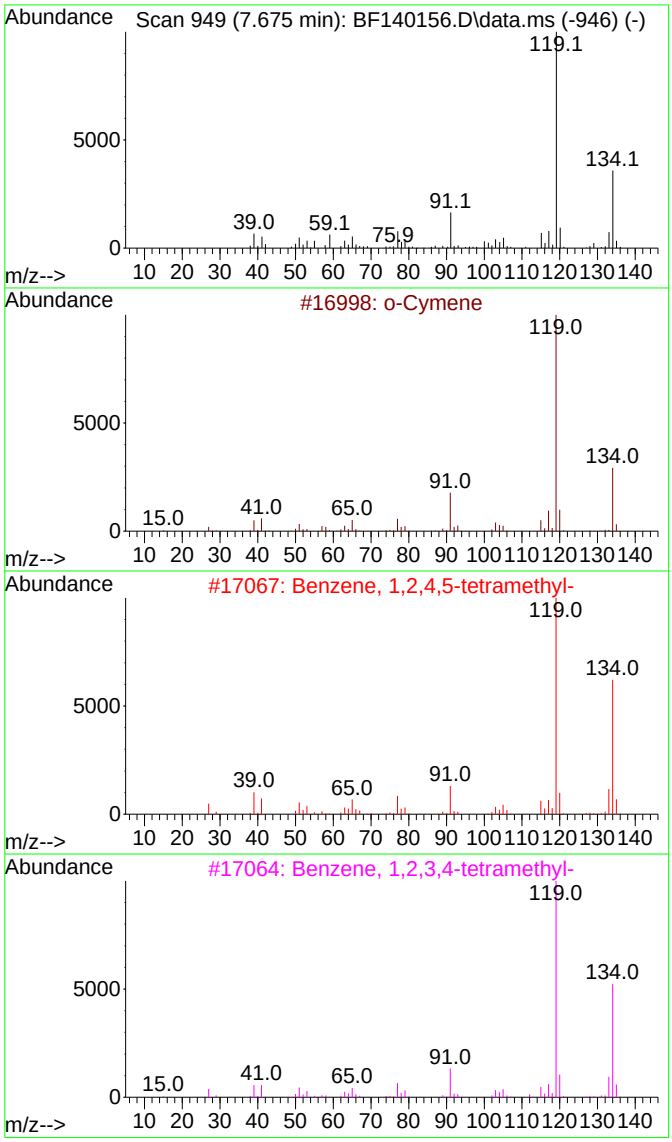
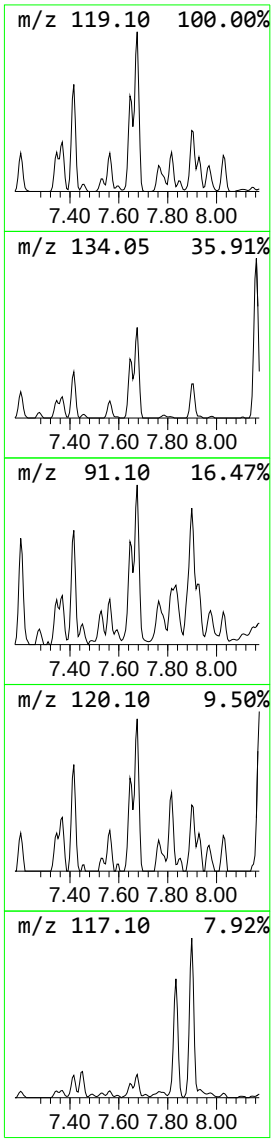
Peak Number 2 o-Cymene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.675	4.27 ng	258406	Naphthalene-d8	8.163

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	o-Cymene	134	C10H14	000527-84-4	94
2	Benzene, 1,2,4,5-tetramethyl-	134	C10H14	000095-93-2	91
3	Benzene, 1,2,3,4-tetramethyl-	134	C10H14	000488-23-3	91
4	Benzene, 1-ethyl-3,5-dimethyl-	134	C10H14	000934-74-7	91
5	Benzene, 1,2,3,5-tetramethyl-	134	C10H14	000527-53-7	91





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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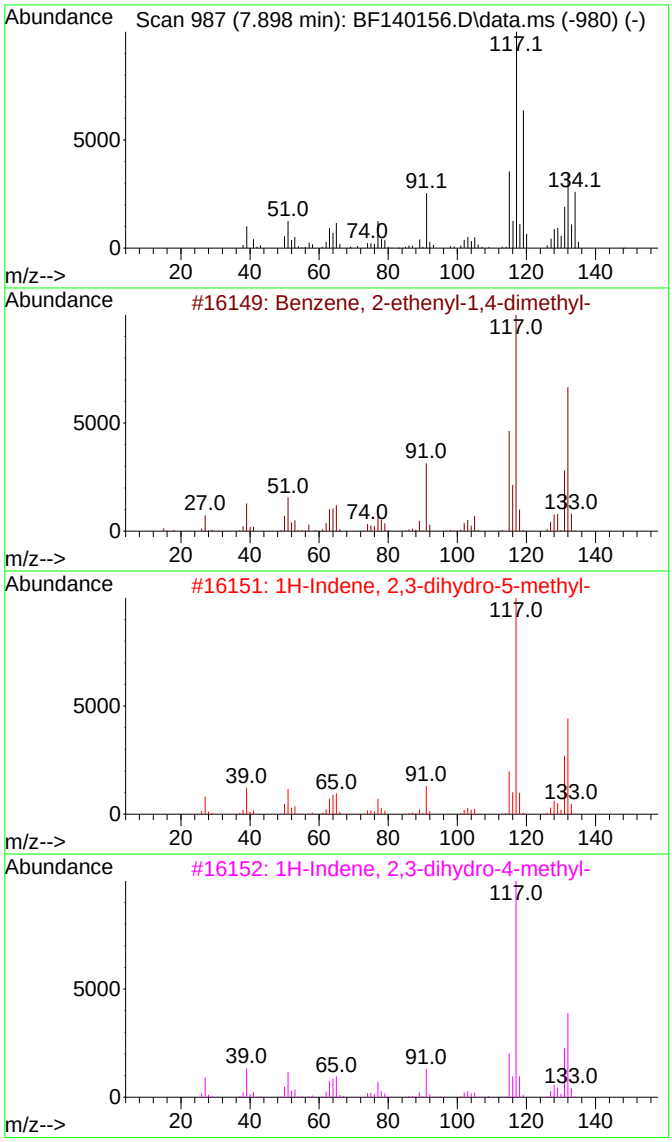
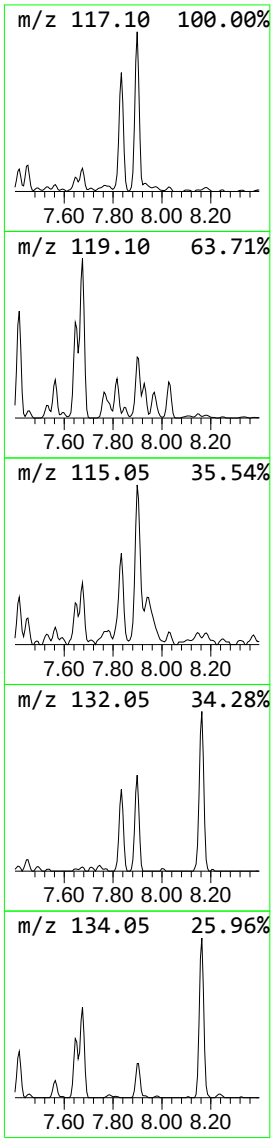
Peak Number 3 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.898	3.87 ng	234344	Naphthalene-d8	8.163

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzene, 2-ethenyl-1,4-dimethyl-	132	C10H12	002039-89-6	90
2	1H-Indene, 2,3-dihydro-5-methyl-	132	C10H12	000874-35-1	64
3	1H-Indene, 2,3-dihydro-4-methyl-	132	C10H12	000824-22-6	64
4	3-Phenylbut-1-ene	132	C10H12	000934-10-1	64
5	Benzene, 1-ethenyl-3-ethyl-	132	C10H12	007525-62-4	60





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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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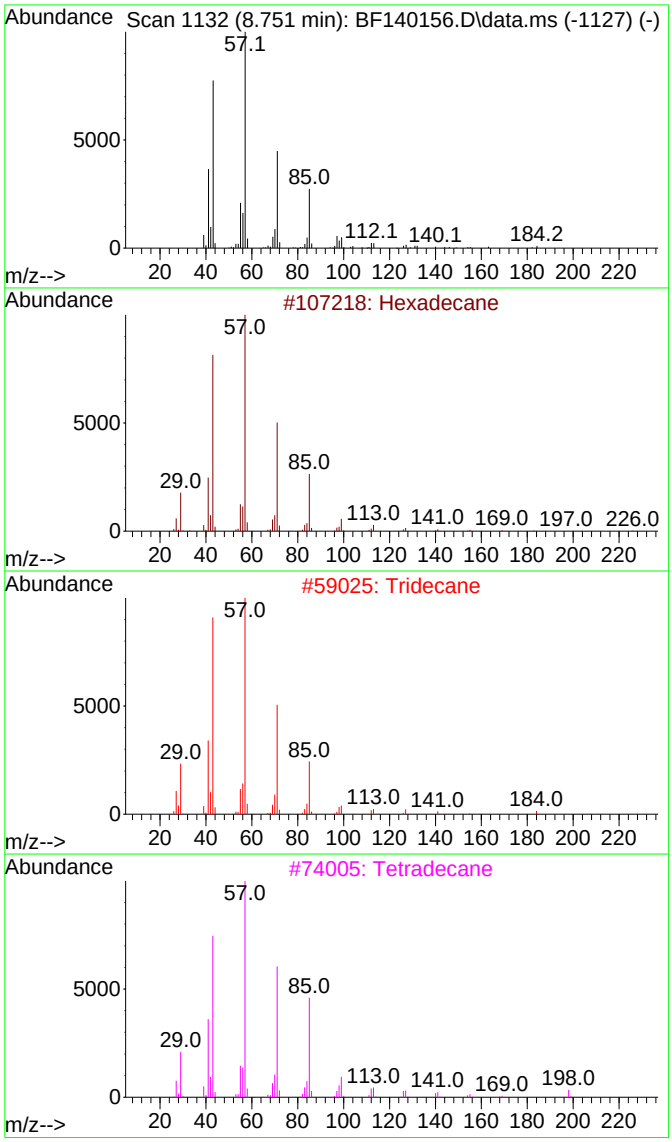
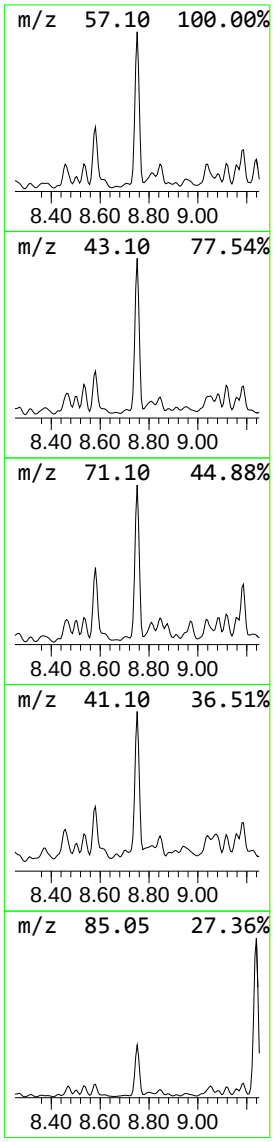
Peak Number 4 Hexadecane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.751	3.70 ng	224222	Naphthalene-d8	8.163

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	90
2	Tridecane	184	C13H28	000629-50-5	87
3	Tetradecane	198	C14H30	000629-59-4	83
4	Dodecane	170	C12H26	000112-40-3	72
5	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	72





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

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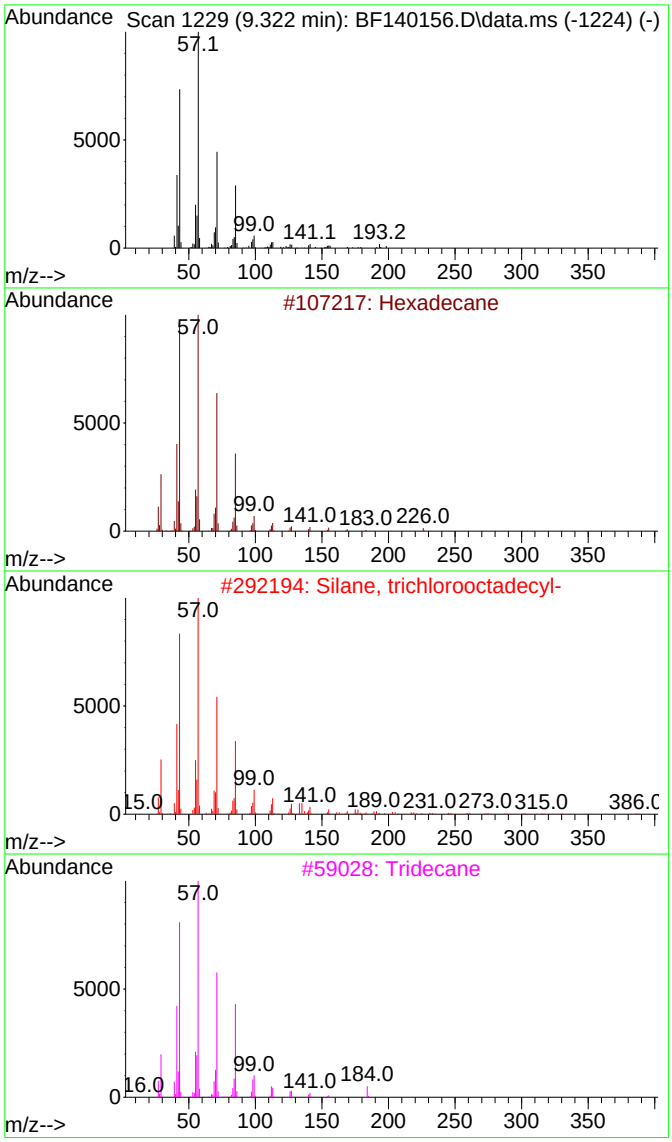
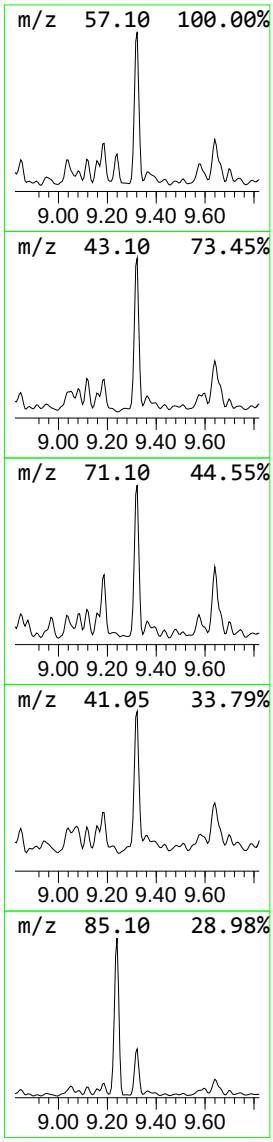
Peak Number 5 Silane, trichlorooctadecyl- Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.322	4.53 ng	233406	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	91
2	Silane, trichlorooctadecyl-	386	C18H37Cl3Si	000112-04-9	90
3	Tridecane	184	C13H28	000629-50-5	90
4	Undecane	156	C11H24	001120-21-4	87
5	Tetradecane	198	C14H30	000629-59-4	87





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

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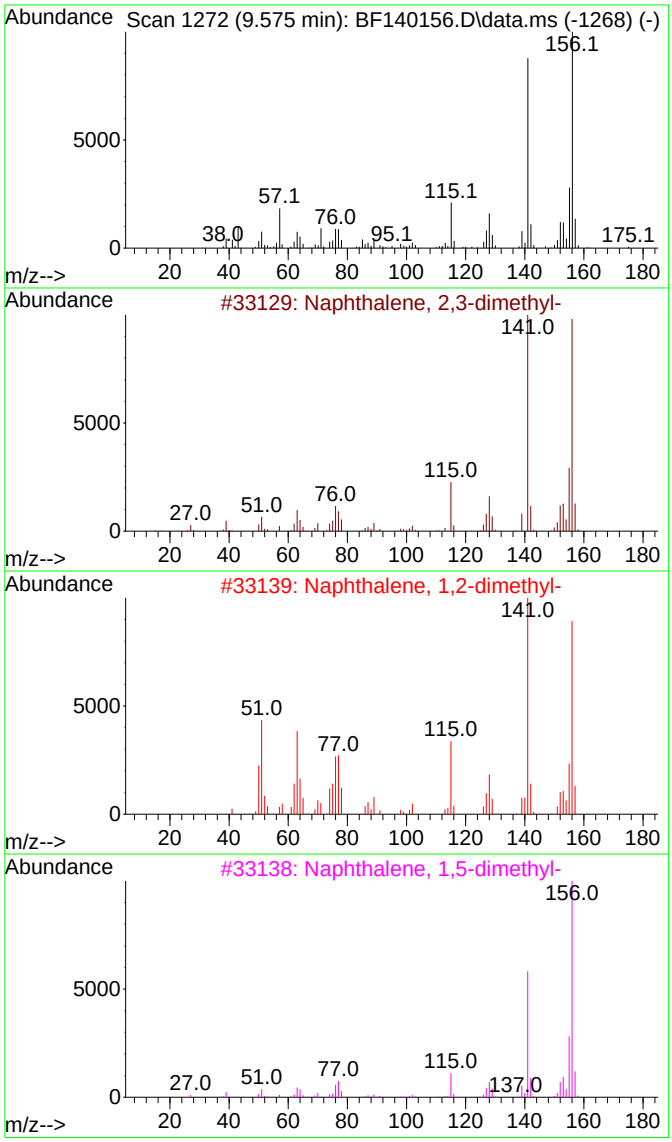
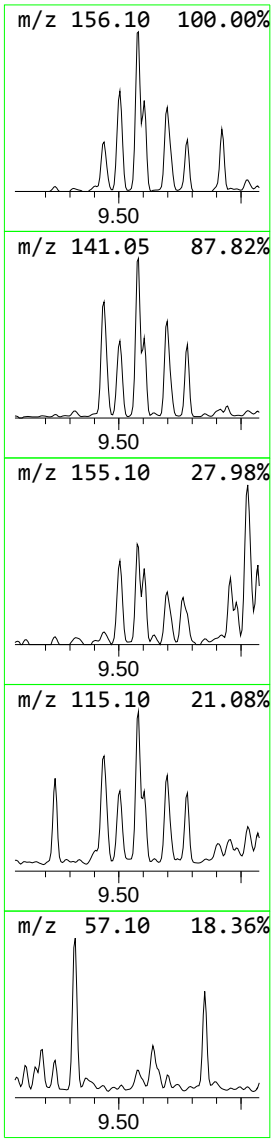
Peak Number 6 Naphthalene, 2,3-dimethyl- Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.575	3.71 ng	191144	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Naphthalene, 2,3-dimethyl-	156	C12H12	000581-40-8	98
2	Naphthalene, 1,2-dimethyl-	156	C12H12	000573-98-8	97
3	Naphthalene, 1,5-dimethyl-	156	C12H12	000571-61-9	97
4	Naphthalene, 1,3-dimethyl-	156	C12H12	000575-41-7	97
5	Naphthalene, 1,7-dimethyl-	156	C12H12	000575-37-1	97





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

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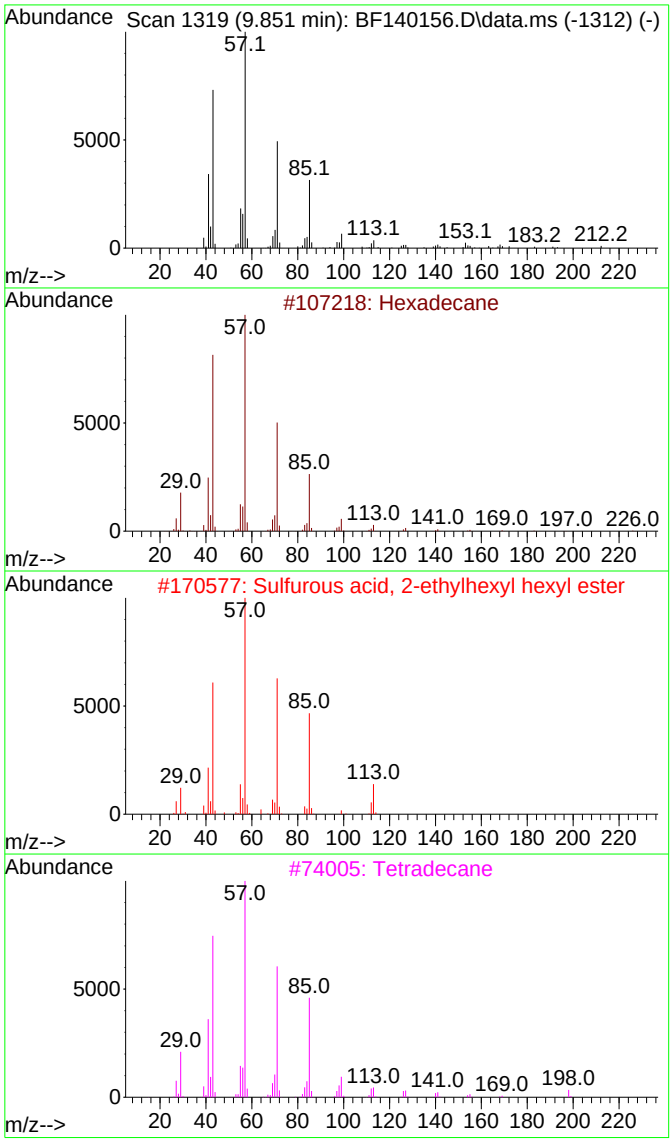
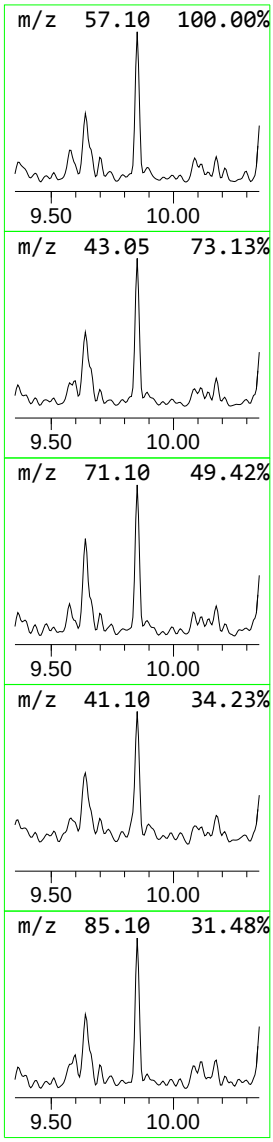
Peak Number 7 Sulfurous acid, 2-ethylhexy... Concentration Rank 18

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.851	2.90 ng	149389	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	91
2	Sulfurous acid, 2-ethylhexyl hex...	278	C14H30O3S	1000309-20-2	86
3	Tetradecane	198	C14H30	000629-59-4	83
4	Pentadecane	212	C15H32	000629-62-9	81
5	Sulfurous acid, 2-propyl tetrade...	320	C17H36O3S	1010309-12-5	78





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

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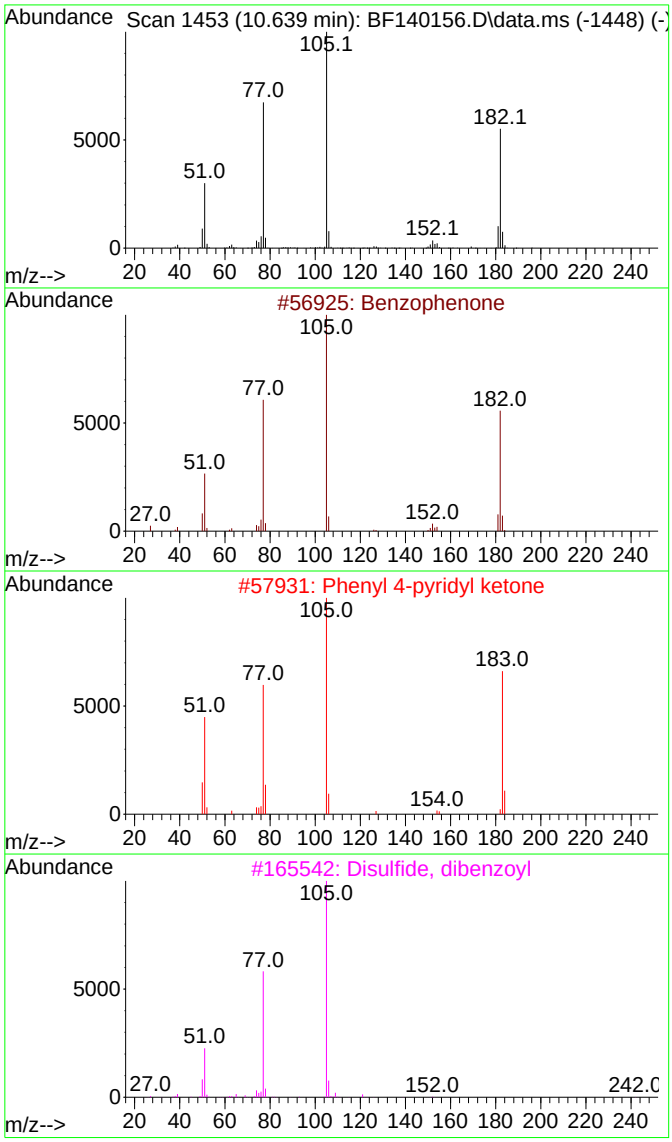
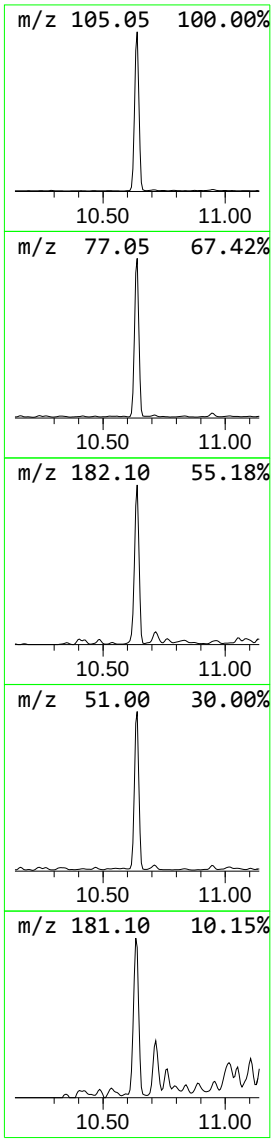
Peak Number 8 Benzophenone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.639	9.68 ng	498736	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	49
3	Disulfide, dibenzoyl	274	C14H10O2S2	000644-32-6	49
4	N-Methylbenzamide, N-pentafluoro...	281	C11H8F5NO2	1000446-98-1	47
5	2-Benzoyl-4-bromo-5-methyl-1,2-o...	281	C11H8BrNO3	1000444-92-3	47





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

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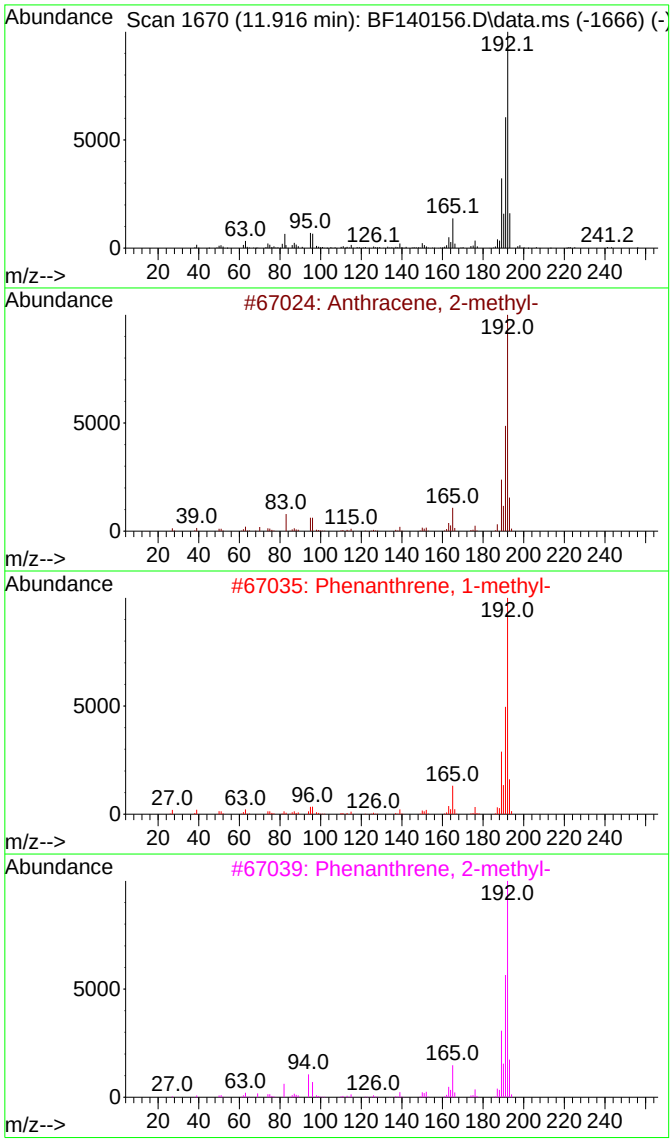
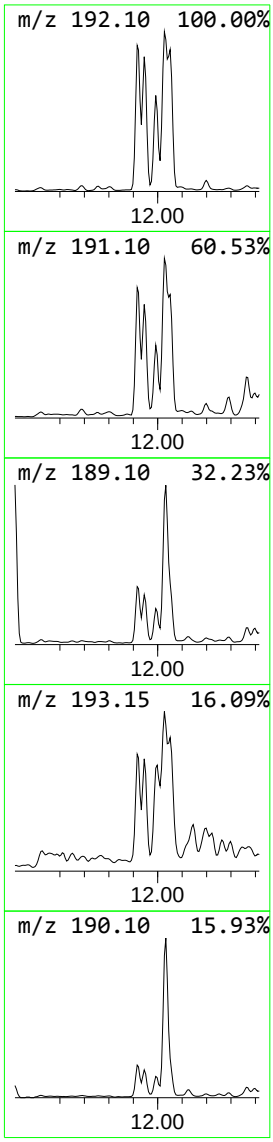
Peak Number 9 Anthracene, 2-methyl- Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.916	3.77 ng	199659	Phenanthrene-d10	11.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Anthracene, 2-methyl-	192	C15H12	000613-12-7	96
2	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	96
3	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
4	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
5	Anthracene, 1-methyl-	192	C15H12	000610-48-0	93





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

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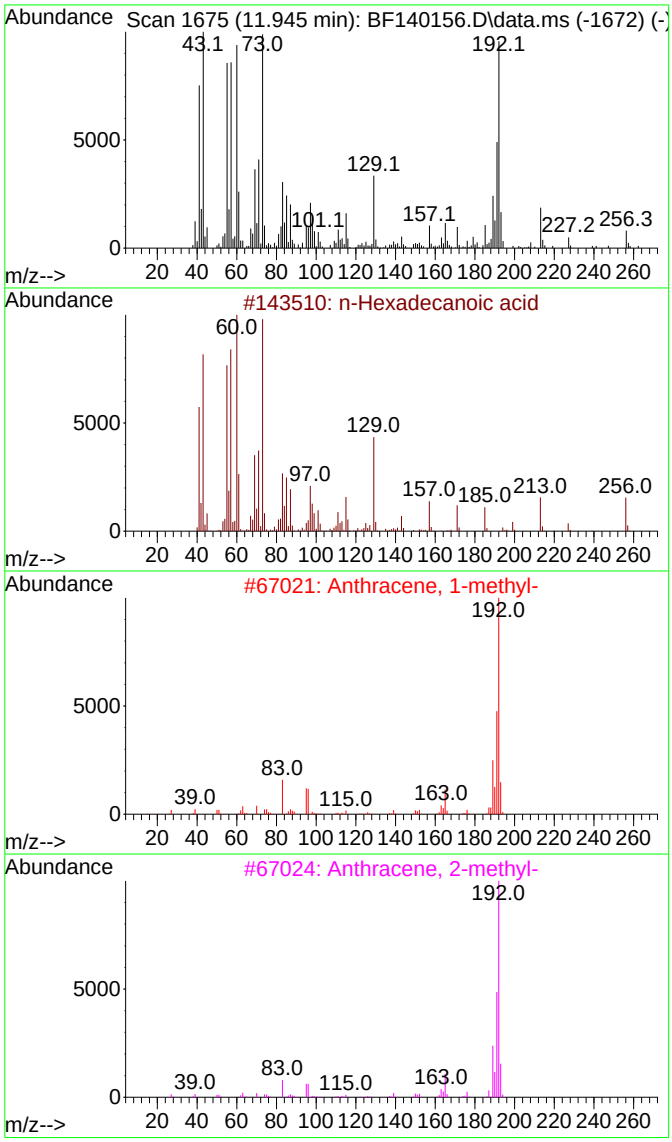
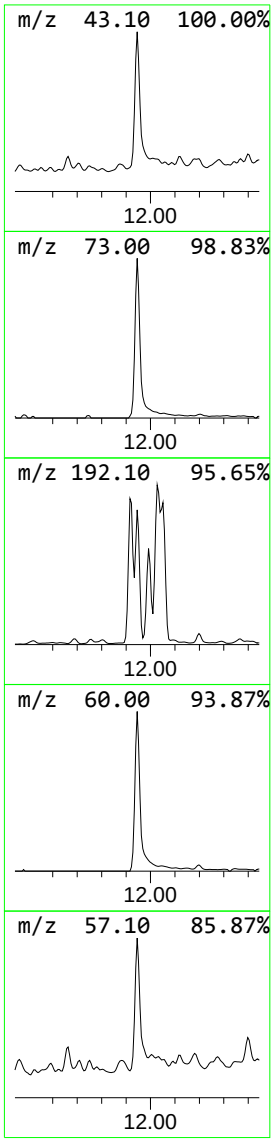
Peak Number 10 n-Hexadecanoic acid Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.945	8.74 ng	462993	Phenanthrene-d10	11.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	97
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	91
3	Anthracene, 2-methyl-	192	C15H12	000613-12-7	91
4	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	91
5	Tridecanoic acid	214	C13H26O2	000638-53-9	87





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TIC Integration Parameters: LSCINT.P

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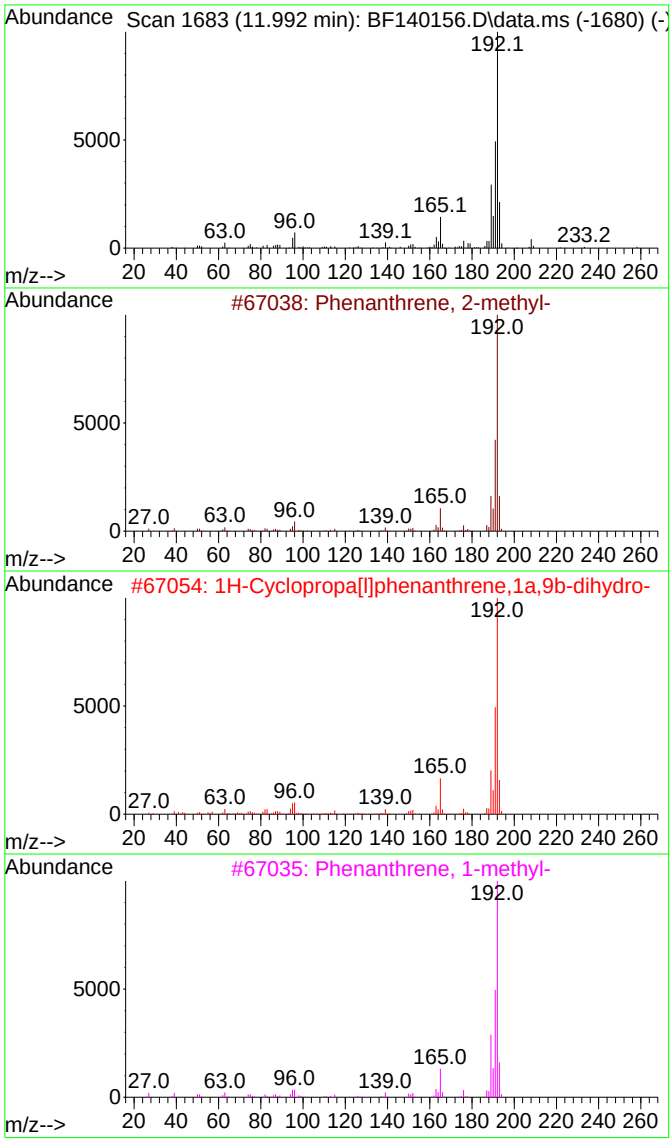
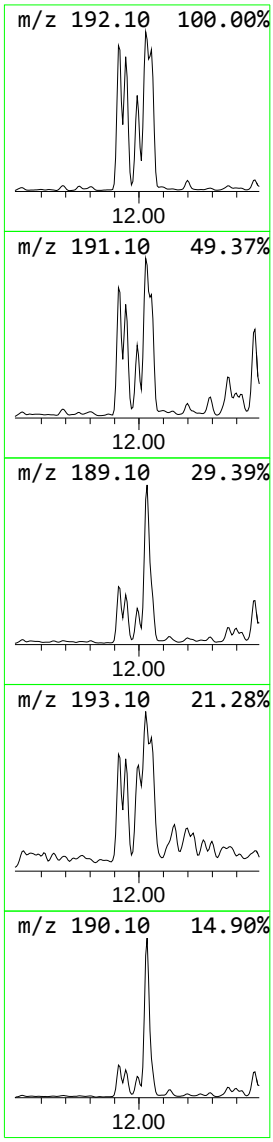
Peak Number 11 Phenanthrene, 2-methyl- Concentration Rank 17

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.992	3.10 ng	164391	Phenanthrene-d10	11.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2-methyl-	192	C15H12	002531-84-2	96
2	1H-Cyclopropa[l]phenanthrene,1a,...	192	C15H12	000949-41-7	95
3	Phenanthrene, 1-methyl-	192	C15H12	000832-69-9	95
4	Anthracene, 1-methyl-	192	C15H12	000610-48-0	95
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	95





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Acq On : 30 Oct 2024 14:41
Operator : RC/JU
Sample : P4578-03
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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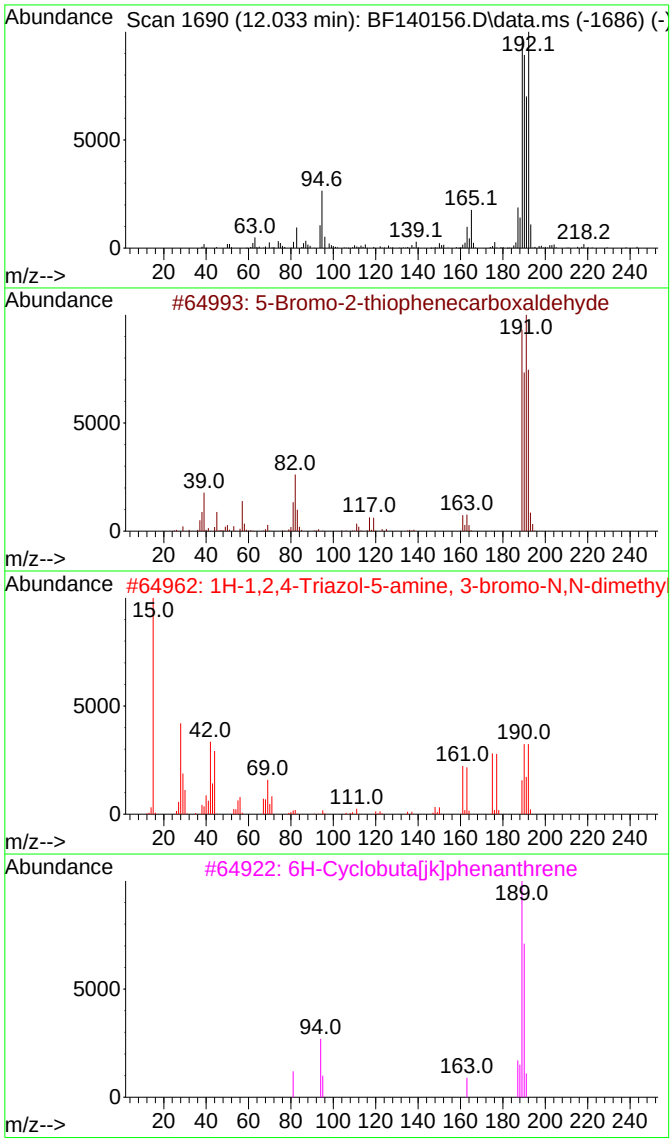
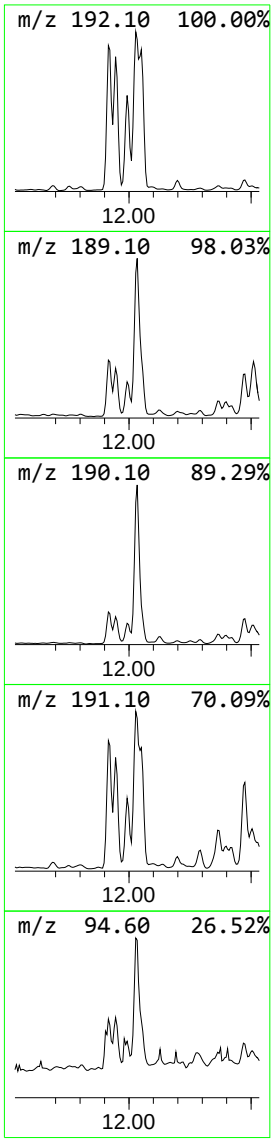
Peak Number 12 5-Bromo-2-thiophenecarboxal... Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.033	10.86 ng	575319	Phenanthrene-d10	11.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	5-Bromo-2-thiophenecarboxaldehyde	190	C5H3BrOS	004701-17-1	64
2	1H-1,2,4-Triazol-5-amine, 3-brom...	190	C4H7BrN4	1000460-85-7	53
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	49
4	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	49
5	5H-Dibenzo[a,d]cycloheptene	192	C15H12	000256-81-5	46





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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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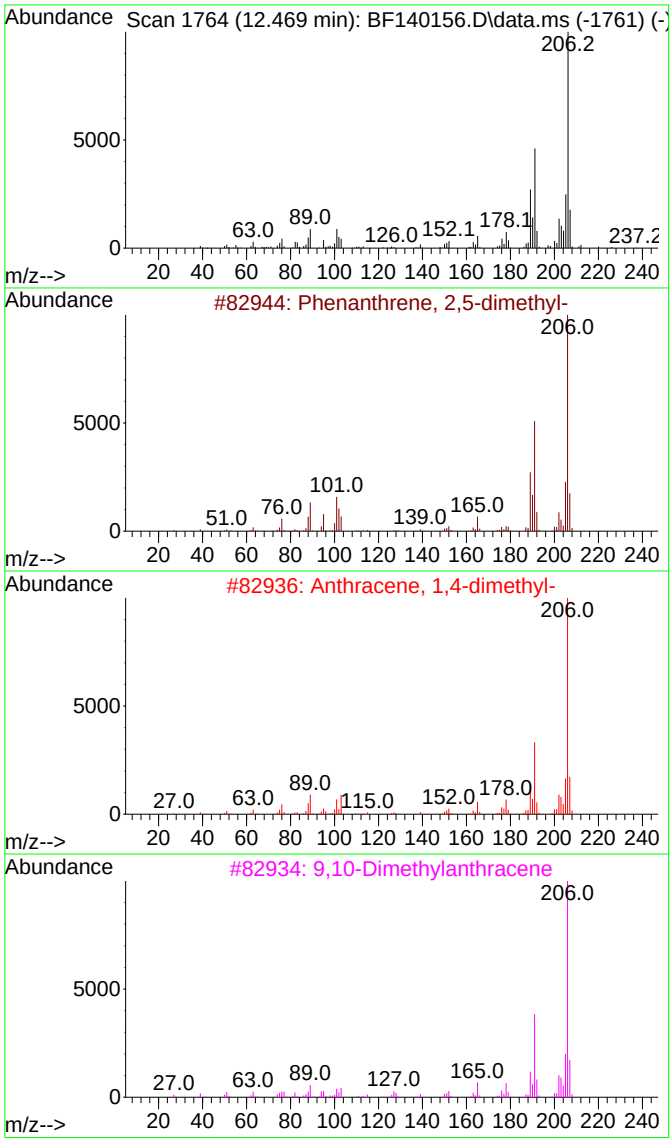
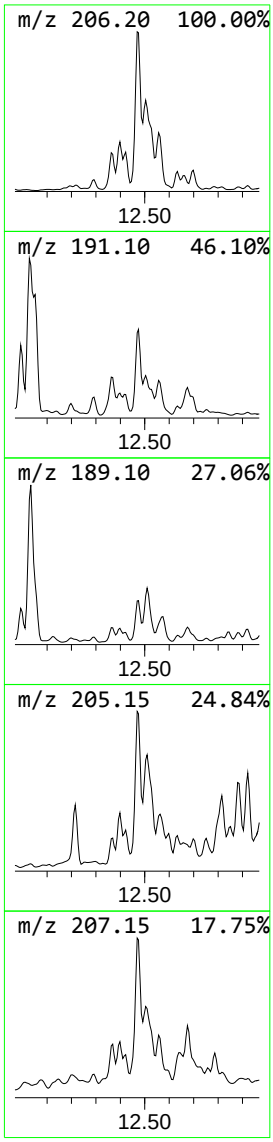
Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 16

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.469	3.21 ng	170078	Phenanthrene-d10	11.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phenanthrene, 2,5-dimethyl-	206	C16H14	003674-66-6	93
2	Anthracene, 1,4-dimethyl-	206	C16H14	000781-92-0	93
3	9,10-Dimethylanthracene	206	C16H14	000781-43-1	91
4	di-p-Tolylacetylene	206	C16H14	002789-88-0	91
5	Phenanthrene, 1,7-dimethyl-	206	C16H14	000483-87-4	90





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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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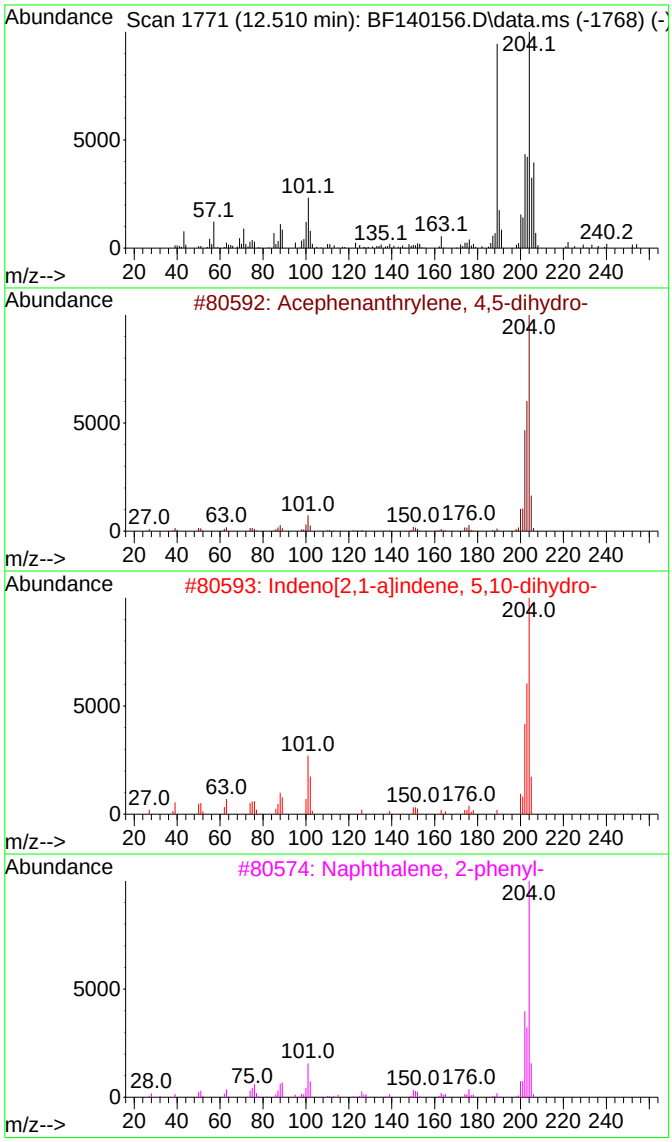
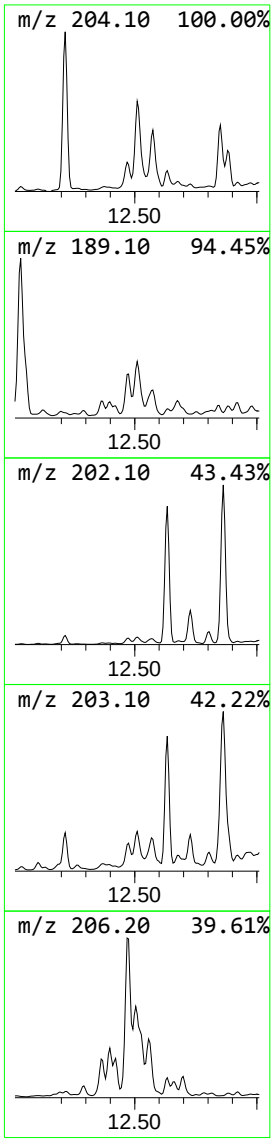
Peak Number 14 unknown12.510 Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.510	2.88 ng	152420	Phenanthrene-d10	11.416

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Acephenanthrylene, 4,5-dihydro-	204	C16H12	006232-48-0	46
2	Indeno[2,1-a]indene, 5,10-dihydro-	204	C16H12	006543-29-9	46
3	Naphthalene, 2-phenyl-	204	C16H12	000612-94-2	46
4	1H-Indol-6-ylamine, TMS derivative	204	C11H16N2Si	1000484-86-1	43
5	5,16[1',2']:8,13[1'',2'']-Dibenz...	408	C32H24	005672-97-9	43





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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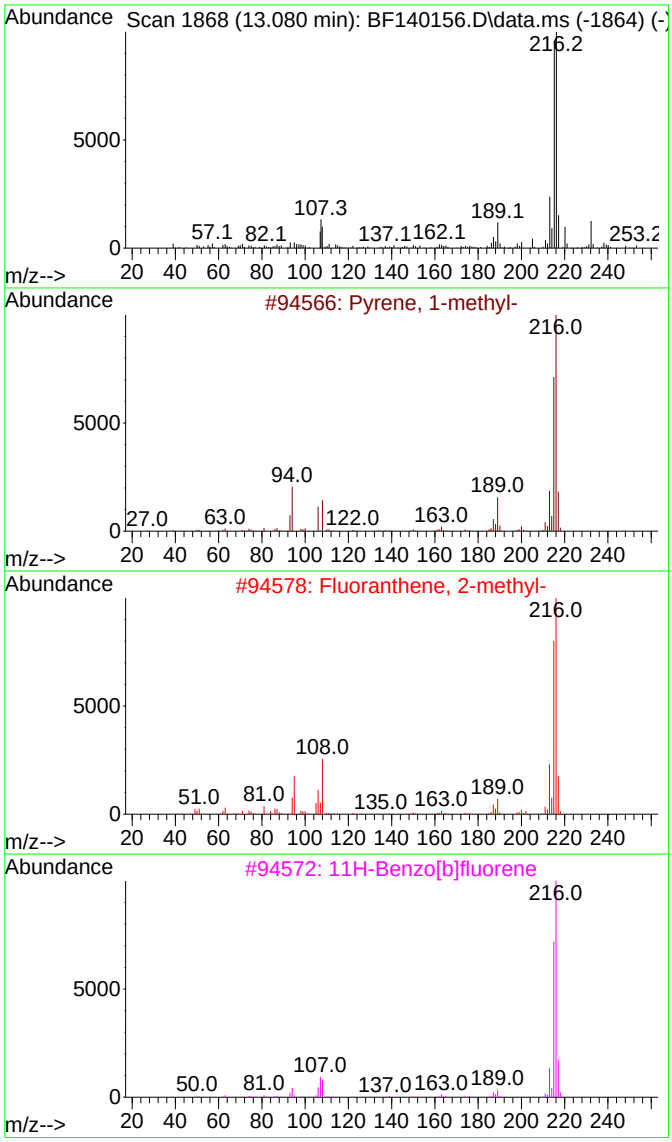
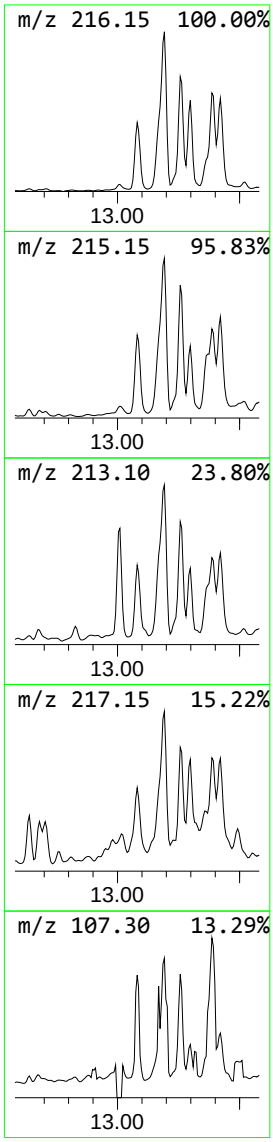
Peak Number 15 Pyrene, 1-methyl- Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.080	2.69 ng	137069	Chrysene-d12	14.069

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
2	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	89
3	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	80
4	Pyrene, 2-methyl-	216	C17H12	003442-78-2	70
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	68





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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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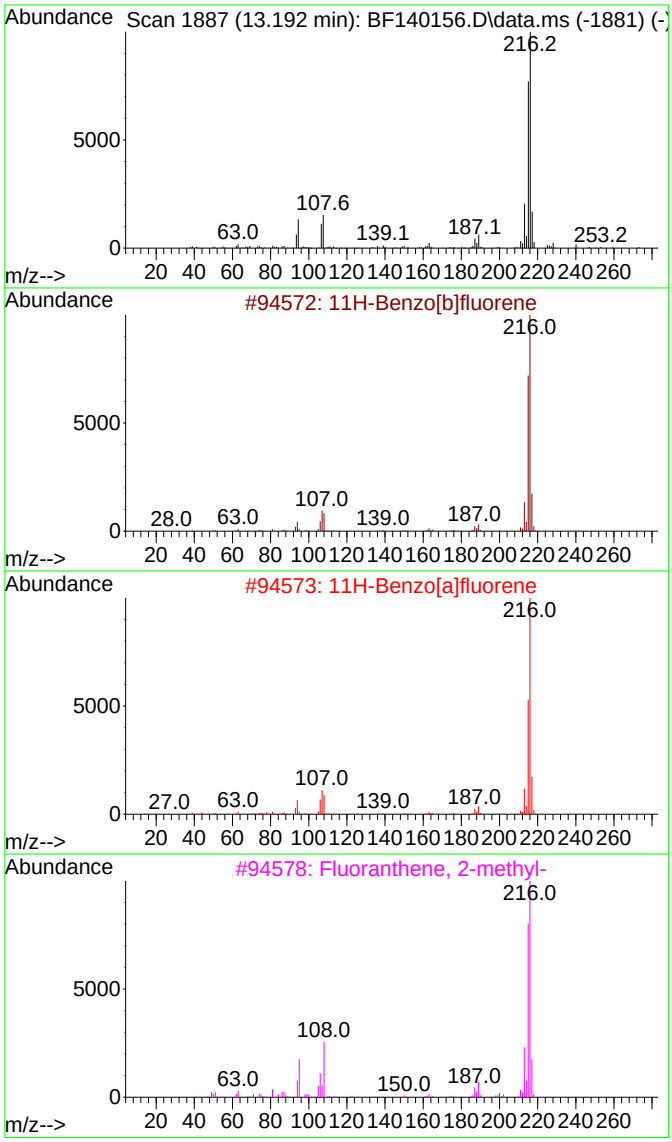
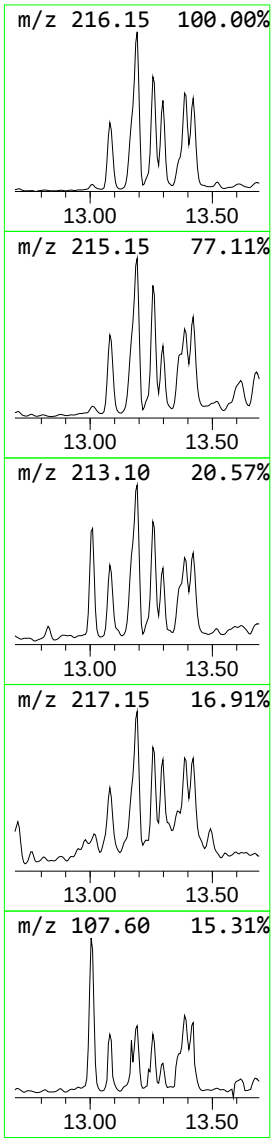
Peak Number 16 11H-Benzo[b]fluorene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.192	5.15 ng	262986	Chrysene-d12	14.069

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	97
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	95
3	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	87
4	Pyrene, 1-methyl-	216	C17H12	002381-21-7	87
5	7H-Benzo[c]fluorene	216	C17H12	000205-12-9	81





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ALS Vial : 6 Sample Multiplier: 1

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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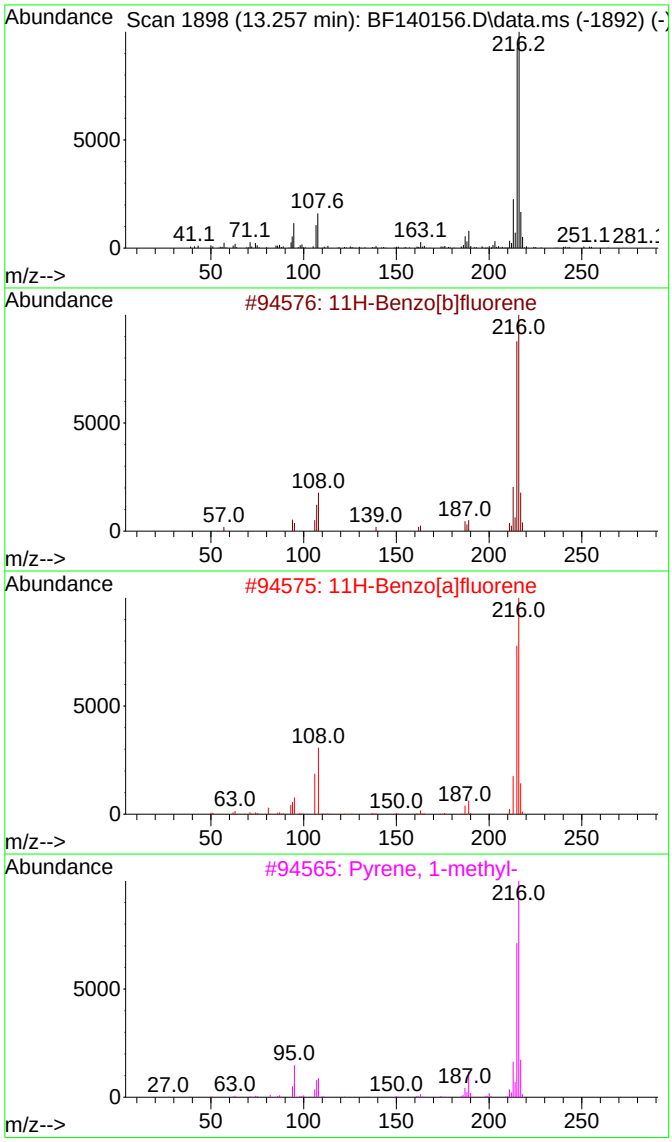
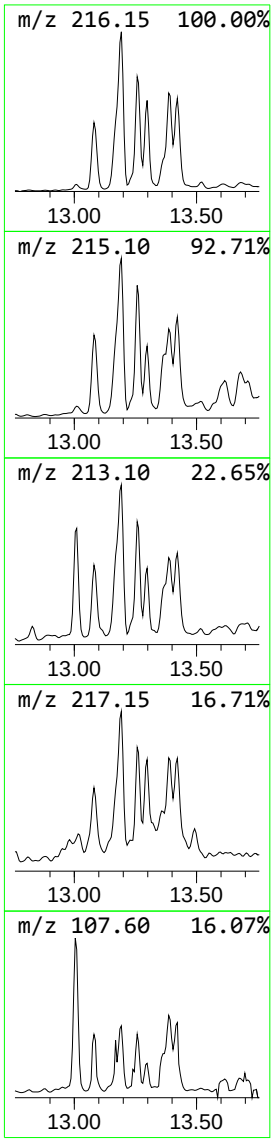
Peak Number 17 11H-Benzo[a]fluorene Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.257	3.59 ng	183318	Chrysene-d12	14.069

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	11H-Benzo[b]fluorene	216	C17H12	000243-17-4	94
2	11H-Benzo[a]fluorene	216	C17H12	000238-84-6	93
3	Pyrene, 1-methyl-	216	C17H12	002381-21-7	91
4	Fluoranthene, 2-methyl-	216	C17H12	033543-31-6	81
5	Pyrene, 2-methyl-	216	C17H12	003442-78-2	70





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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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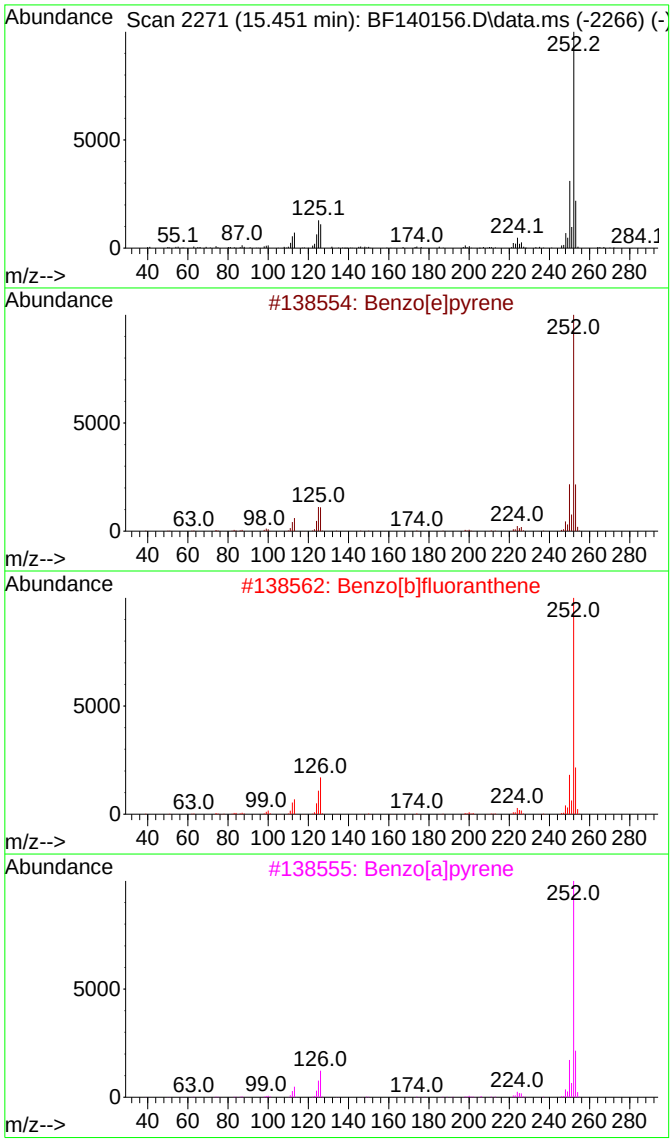
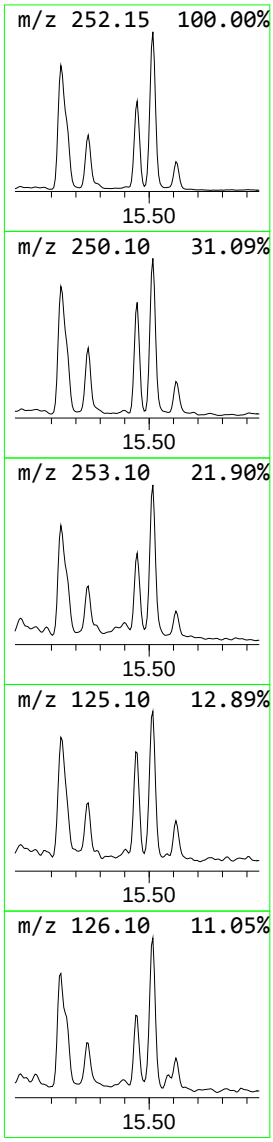
Peak Number 18 Benzo[e]pyrene Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.451	4.04 ng	128470	Perylene-d12	15.580

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[e]pyrene	252	C20H12	000192-97-2	93
2	Benzo[b]fluoranthene	252	C20H12	000205-99-2	93
3	Benzo[a]pyrene	252	C20H12	000050-32-8	91
4	Perylene	252	C20H12	000198-55-0	90
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





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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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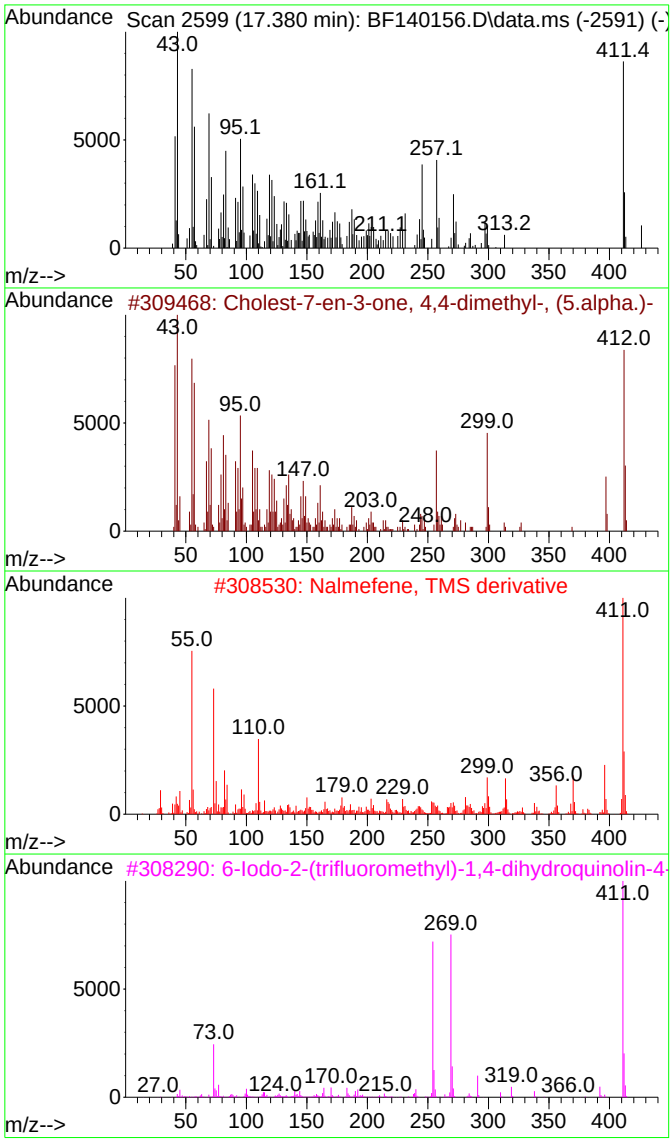
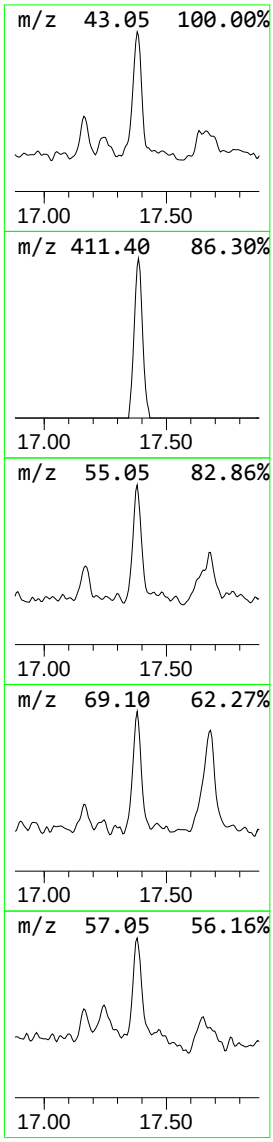
Peak Number 19 unknown17.380 Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
17.380	6.72 ng	213657	Perylene-d12	15.580

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Cholest-7-en-3-one, 4,4-dimethyl...	412	C29H48O	002604-90-2	46
2	Nalmefene, TMS derivative	411	C24H33NO3Si	1000333-47-8	27
3	6-Iodo-2-(trifluoromethyl)-1,4-d...	411	C13H13F3INOSi	1000501-52-0	27
4	Tricosanoic acid, TBDMS derivative	468	C29H60O2Si	1000352-40-3	27
5	2-naphthalenecarboxamide, N-hexa...	411	C27H41NO2	1000402-75-9	25





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ALS Vial : 6 Sample Multiplier: 1

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

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

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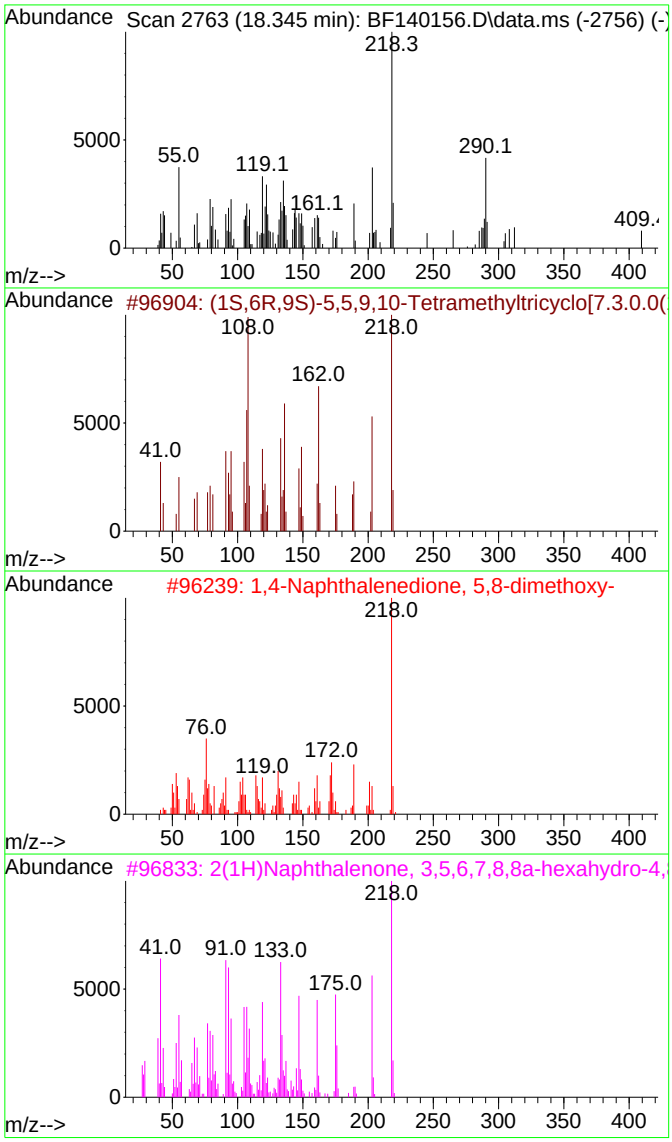
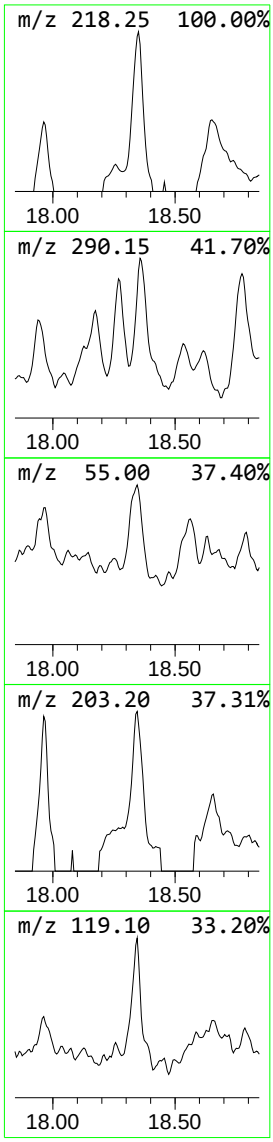
Peak Number 20 unknown18.345 Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
18.345	4.38 ng	139161	Perylene-d12	15.580

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	(1S,6R,9S)-5,5,9,10-Tetramethylt...	218	C16H26	1000298-97-8	49
2	1,4-Naphthalenedione, 5,8-dimeth...	218	C12H10O4	015013-16-8	46
3	2(1H)Naphthalenone, 3,5,6,7,8,8a...	218	C15H22O	1000188-66-5	46
4	Urs-12-en-3-ol, acetate, (3.beta.)-	468	C32H52O2	000863-76-3	46
5	Urs-12-en-23-oic acid, 3-(acetyl...	512	C33H52O4	1000505-76-4	45





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ALS Vial : 6 Sample Multiplier: 1

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

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Butane, 2-metho...	2.181	52.1	ng	1813110	1	6.881	696360	20.0
o-Cymene	7.675	4.3	ng	258406	2	8.163	1211560	20.0
Benzene, 2-ethe...	7.898	3.9	ng	234344	2	8.163	1211560	20.0
Hexadecane	8.751	3.7	ng	224222	2	8.163	1211560	20.0
Silane, trichlo...	9.322	4.5	ng	233406	3	9.922	1030060	20.0
Naphthalene, 2,...	9.575	3.7	ng	191144	3	9.922	1030060	20.0
Sulfurous acid,...	9.851	2.9	ng	149389	3	9.922	1030060	20.0
Benzophenone	10.639	9.7	ng	498736	3	9.922	1030060	20.0
Anthracene, 2-m...	11.916	3.8	ng	199659	4	11.416	1059810	20.0
n-Hexadecanoic ...	11.945	8.7	ng	462993	4	11.416	1059810	20.0
Phenanthrene, 2...	11.992	3.1	ng	164391	4	11.416	1059810	20.0
5-Bromo-2-thiop...	12.033	10.9	ng	575319	4	11.416	1059810	20.0
Phenanthrene, 2...	12.469	3.2	ng	170078	4	11.416	1059810	20.0
unknown12.510	12.510	2.9	ng	152420	4	11.416	1059810	20.0
Pyrene, 1-methyl-	13.080	2.7	ng	137069	5	14.069	1020450	20.0
11H-Benzo[b]flu...	13.192	5.2	ng	262986	5	14.069	1020450	20.0
11H-Benzo[a]flu...	13.257	3.6	ng	183318	5	14.069	1020450	20.0
Benzo[e]pyrene	15.451	4.0	ng	128470	6	15.580	636013	20.0
unknown17.380	17.380	6.7	ng	213657	6	15.580	636013	20.0
unknown18.345	18.345	4.4	ng	139161	6	15.580	636013	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

Quant Time: Oct 30 01:04:47 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	121877	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	473789	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	240944	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	345918	20.000	ng	0.00
76) Chrysene-d12	14.051	240	236214	20.000	ng	0.00
86) Perylene-d12	15.545	264	244867	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.510	112	612161	78.631	ng	0.01
7) Phenol-d6	6.510	99	780620	77.418	ng	0.00
23) Nitrobenzene-d5	7.445	82	501867	58.708	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	143293	63.581	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	864050	59.267	ng	0.00
79) Terphenyl-d14	12.998	244	614896	42.418	ng	0.00
Target Compounds						Qvalue
71) Phenanthrene	11.433	178	56966	3.486	ng	99
75) Fluoranthene	12.622	202	51573	3.122	ng	99
78) Pyrene	12.851	202	67980	3.288	ng	98
81) Benzo(a)anthracene	14.045	228	39061m	2.540	ng	
83) Chrysene	14.080	228	32076	2.275	ng	96
90) Benzo(a)pyrene	15.480	252	28489	2.321	ng	95

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Quant Time: Oct 30 01:04:47 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

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Manual Integrations APPROVED

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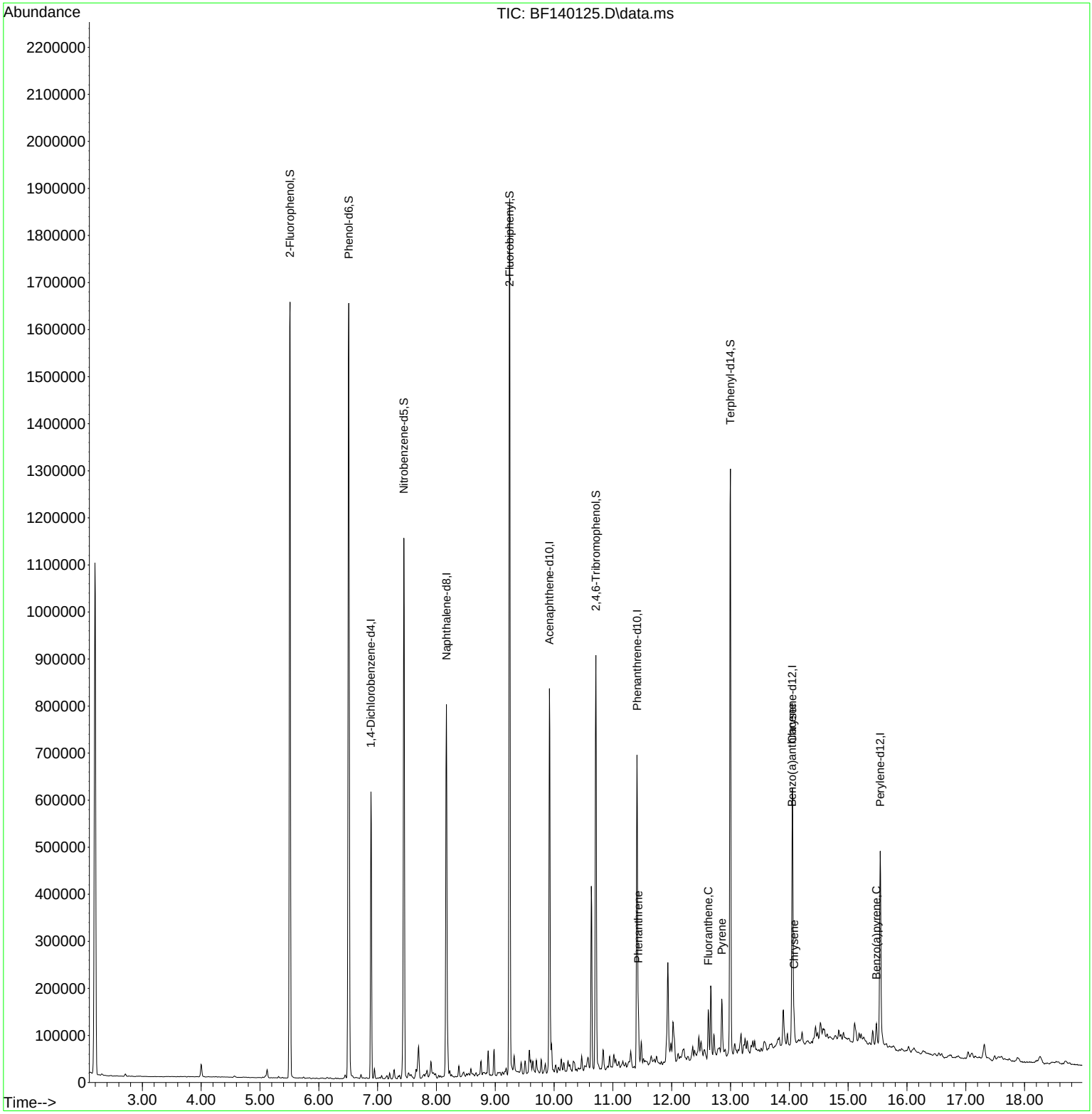
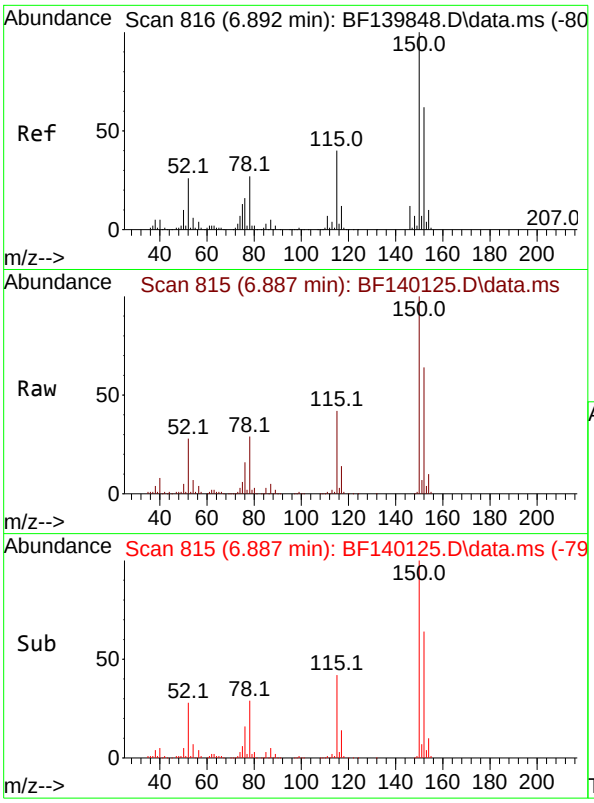
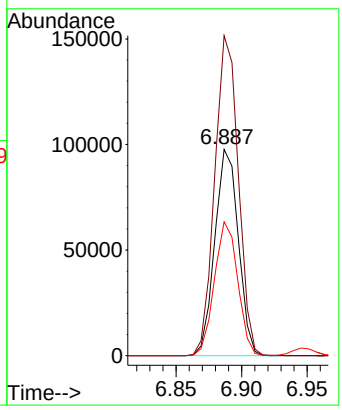




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:152 Resp: 12187

Ion	Ratio	Lower	Upper
152	100		
150	155.1	130.2	195.2
115	64.9	51.4	77.2



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Manual Integrations
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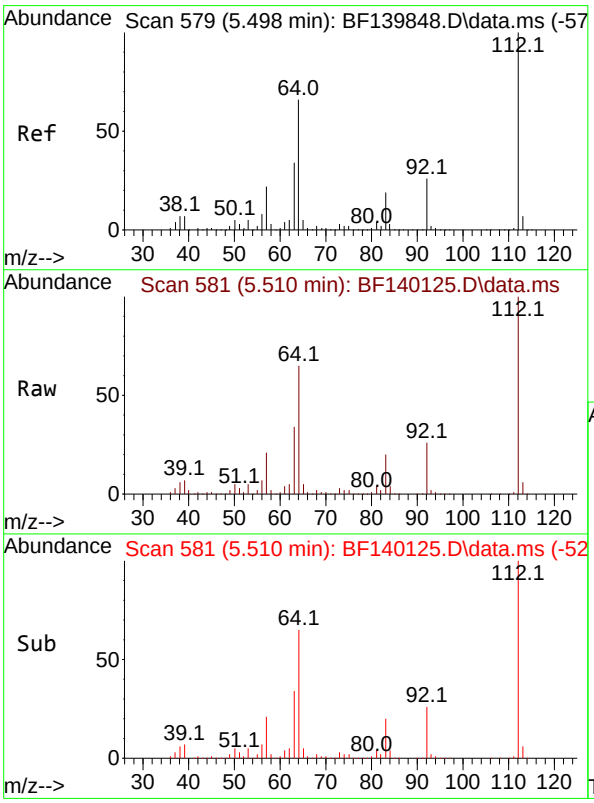
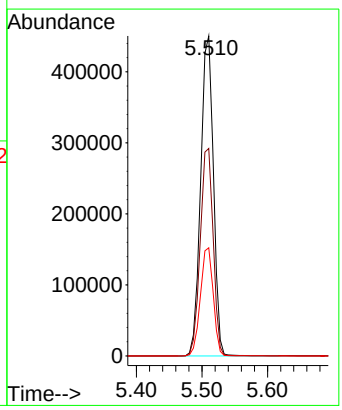
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

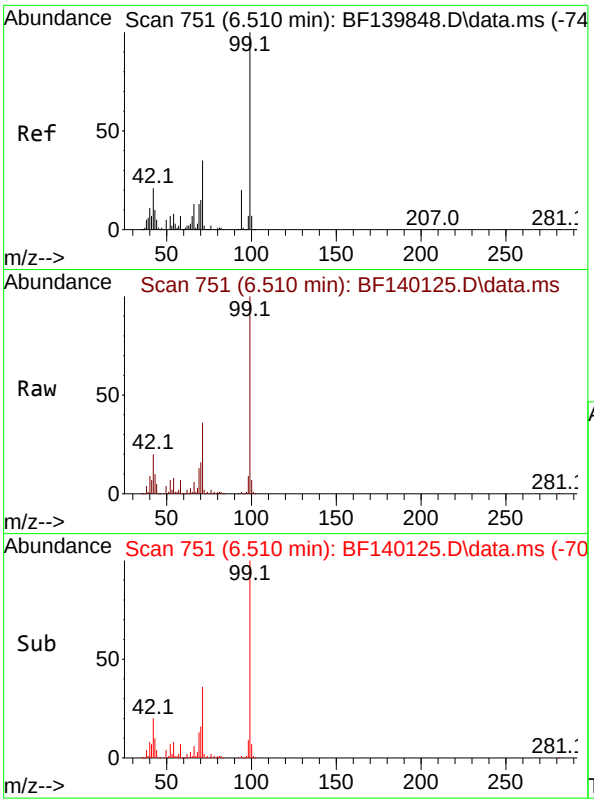


#5
2-Fluorophenol
Concen: 78.631 ng
RT: 5.510 min Scan# 581
Delta R.T. 0.012 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:112 Resp: 612161

Ion	Ratio	Lower	Upper
112	100		
64	64.9	53.0	79.6
63	33.8	27.0	40.4

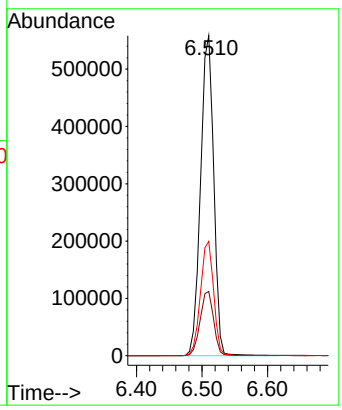




#7
Phenol-d6
Concen: 77.418 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion: 99 Resp: 78062

Ion	Ratio	Lower	Upper
99	100		
42	20.1	16.7	25.1
71	35.7	27.7	41.5



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Manual Integrations
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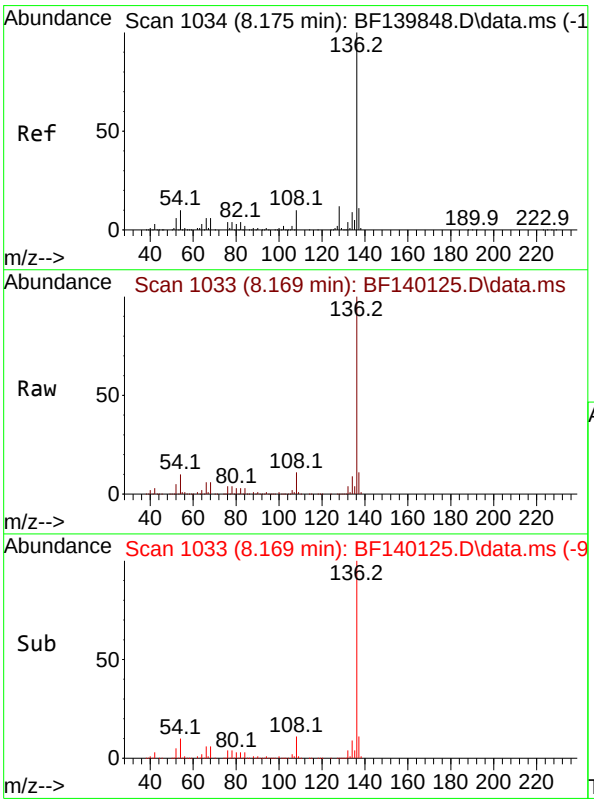
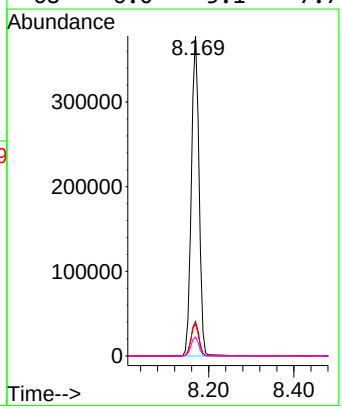
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

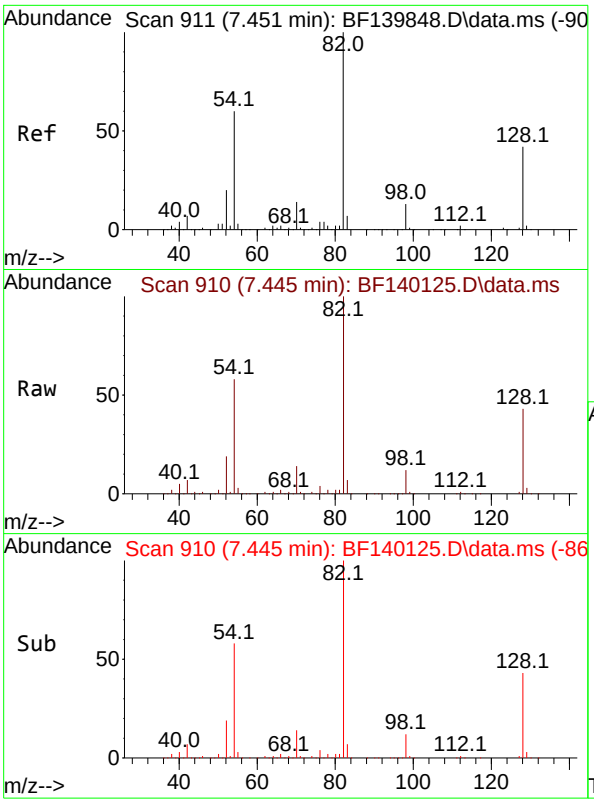


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:136 Resp: 473789

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.6	12.8
54	9.9	8.4	12.6
68	6.0	5.1	7.7





#23
Nitrobenzene-d5
Concen: 58.708 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion: 82 Resp: 50186

Ion	Ratio	Lower	Upper
82	100		
128	42.5	33.4	50.0
54	57.9	47.8	71.8

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

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Reviewed By :Jagrut Upadhyay 10/30/2024
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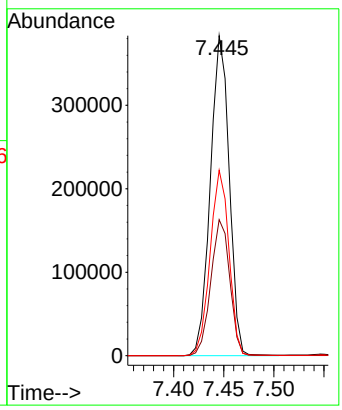
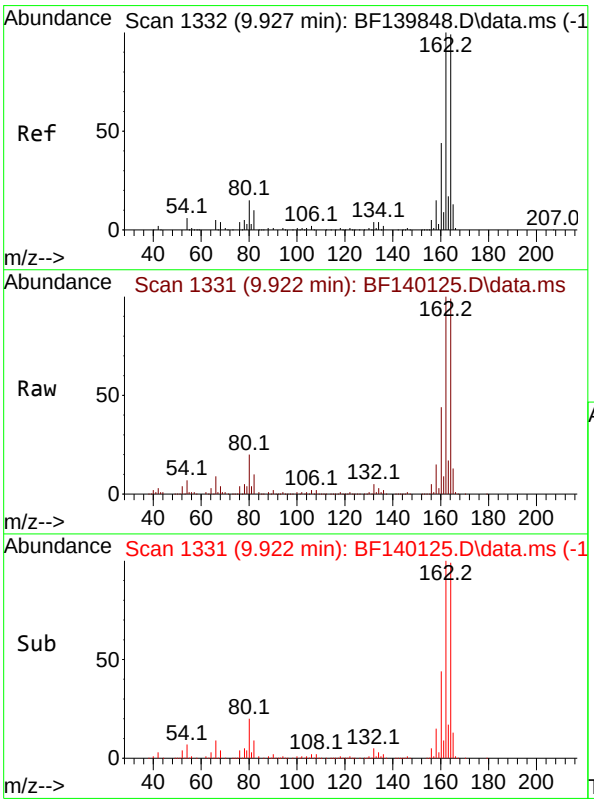
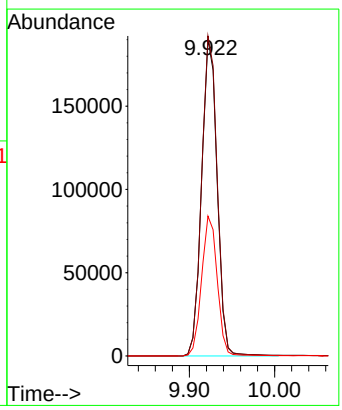


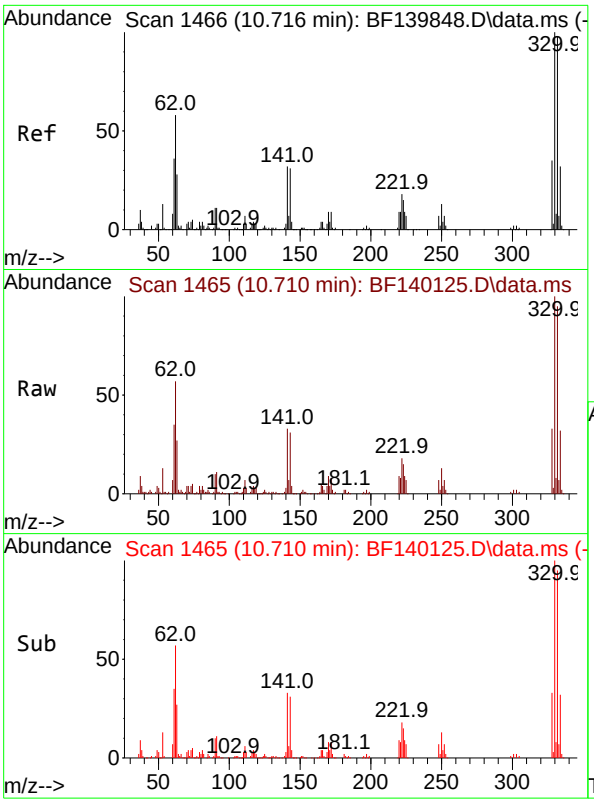


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:164 Resp: 240944

Ion	Ratio	Lower	Upper
164	100		
162	101.0	81.0	121.4
160	44.2	35.4	53.0

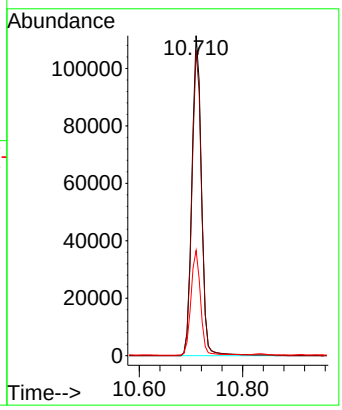




#42
2,4,6-Tribromophenol
Concen: 63.581 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:330 Resp: 14329

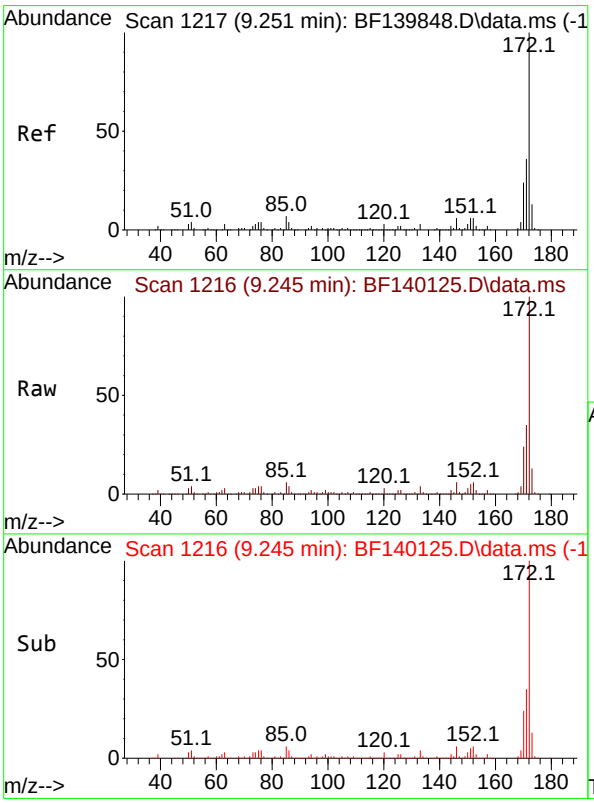
Ion	Ratio	Lower	Upper
330	100		
332	95.6	78.1	117.1
141	32.6	26.6	39.8



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Manual Integrations
APPROVED

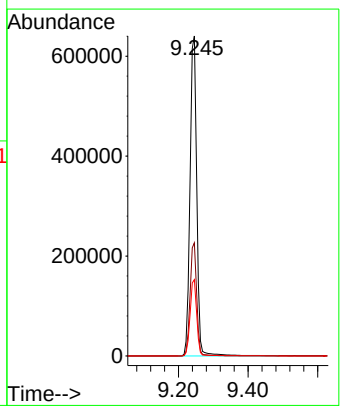
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

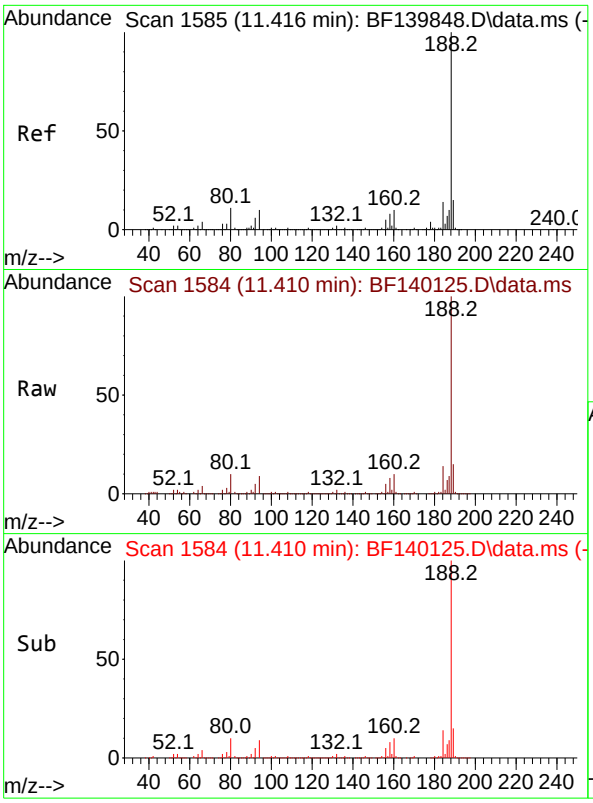


#45
2-Fluorobiphenyl
Concen: 59.267 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:172 Resp: 864050

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.6	43.0
170	23.8	19.1	28.7

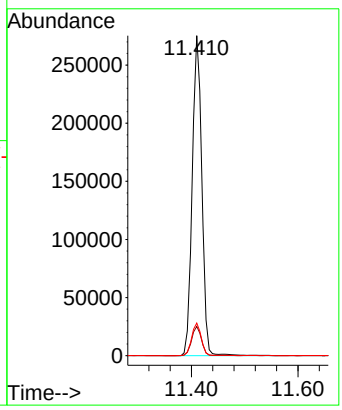




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:188 Resp: 345918

Ion	Ratio	Lower	Upper
188	100		
94	9.2	7.9	11.9
80	10.2	9.0	13.4



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Manual Integrations
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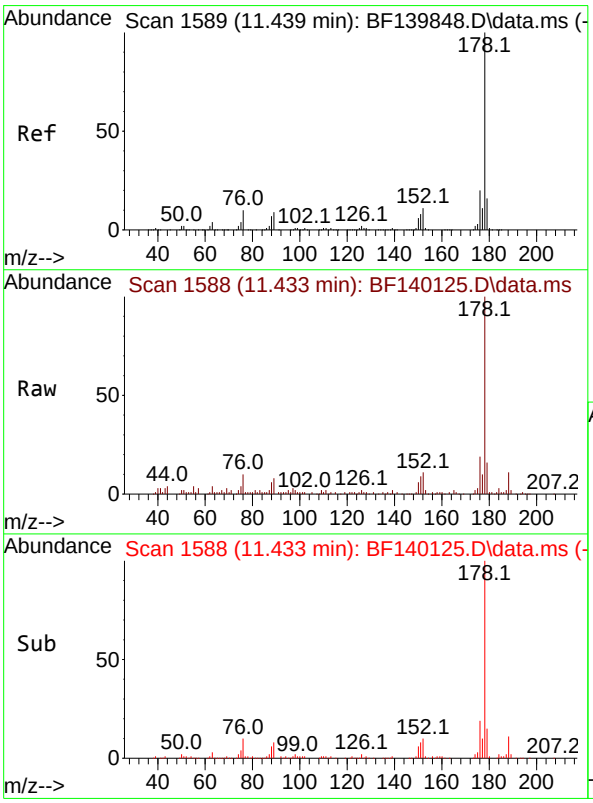
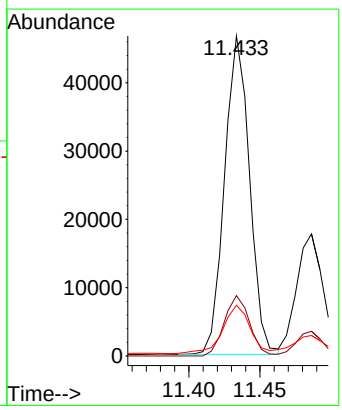
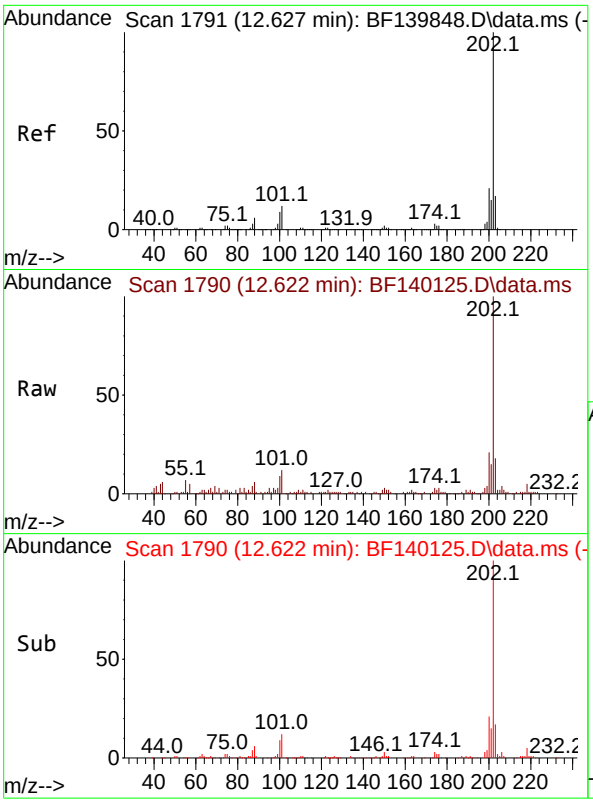


#71
Phenanthrene
Concen: 3.486 ng
RT: 11.433 min Scan# 1588
Delta R.T. -0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:178 Resp: 56966

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.8	23.6
179	15.9	12.6	18.8

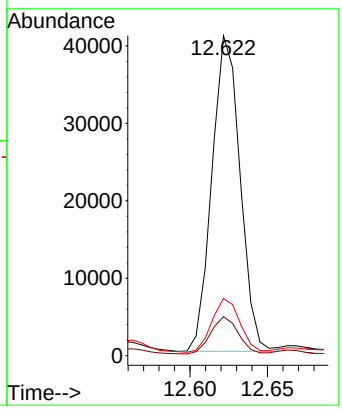




#75
Fluoranthene
Concen: 3.122 ng
RT: 12.622 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:202 Resp: 5157

Ion	Ratio	Lower	Upper
202	100		
101	12.2	0.0	31.9
203	17.9	0.0	37.5



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Manual Integrations
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Reviewed By :Jagrut Upadhyay 10/30/2024
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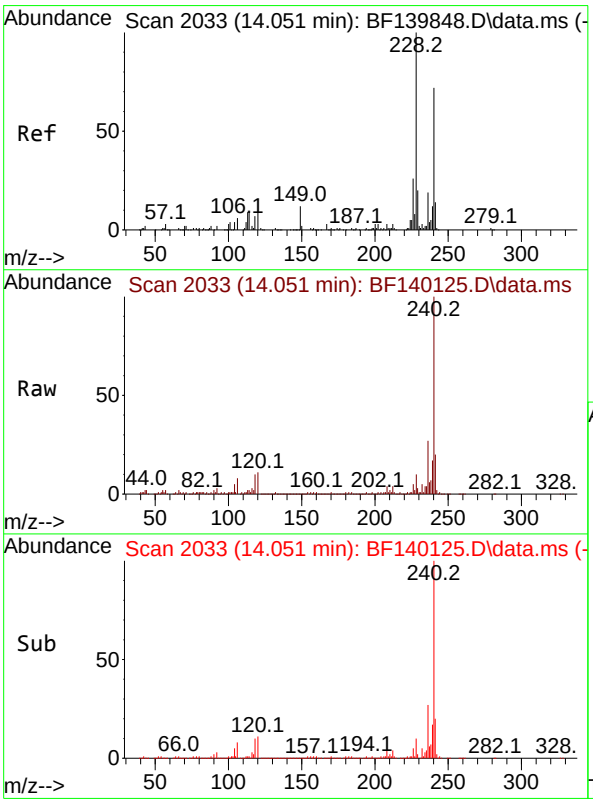
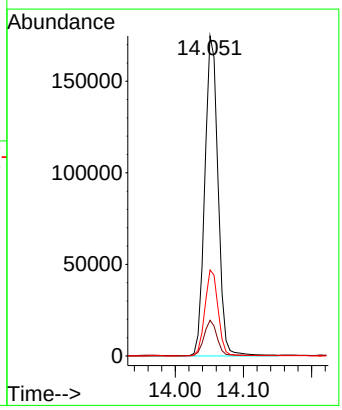
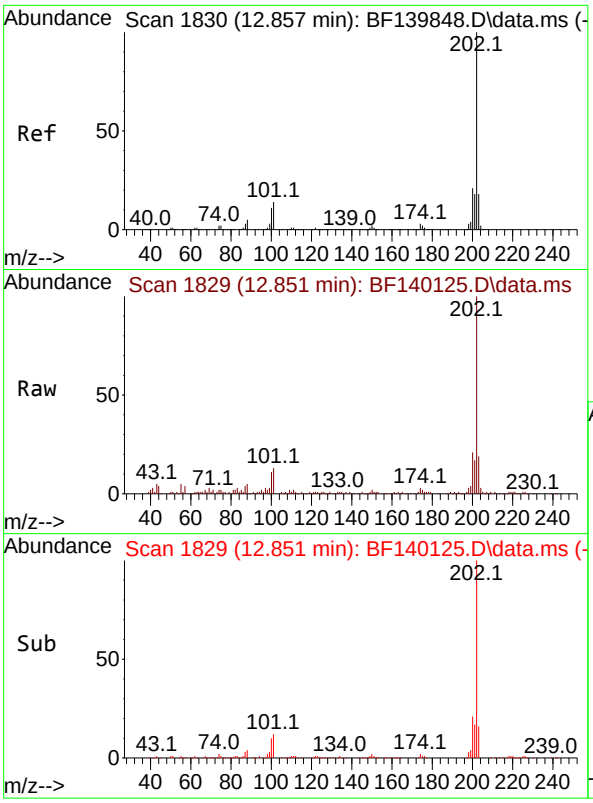


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2033
Delta R.T. 0.000 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:240 Resp: 236214

Ion	Ratio	Lower	Upper
240	100		
120	11.2	9.4	14.2
236	26.9	20.9	31.3

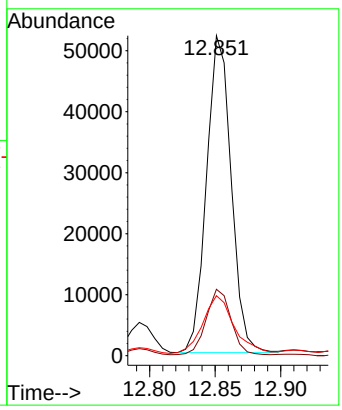




#78
Pyrene
Concen: 3.288 ng
RT: 12.851 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:202 Resp: 6798

Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.2	25.8
203	18.8	14.2	21.4



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Manual Integrations
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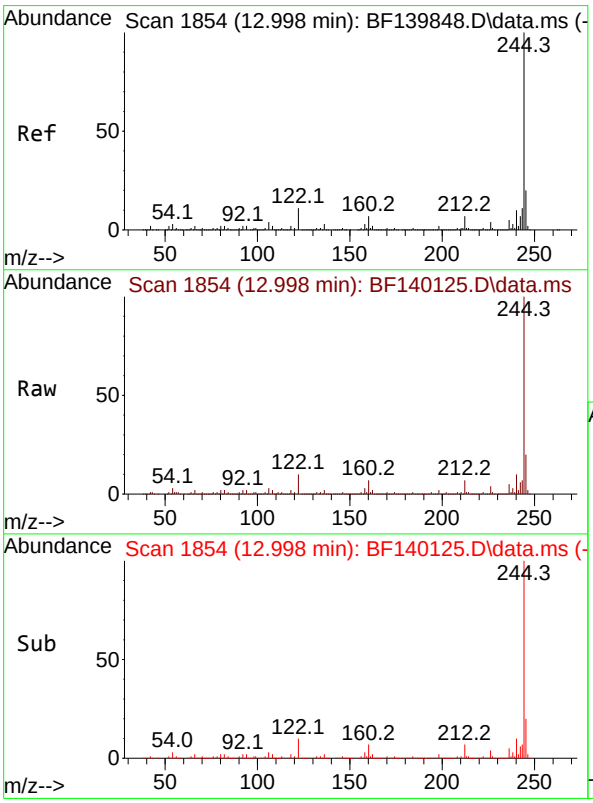
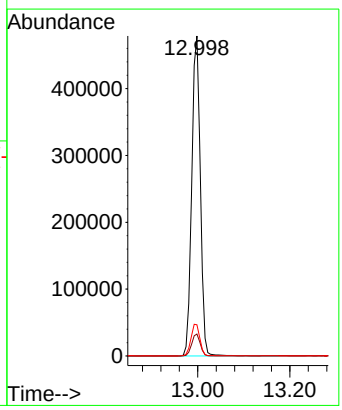
Supervised By :mohammad ahmed 11/04/2024

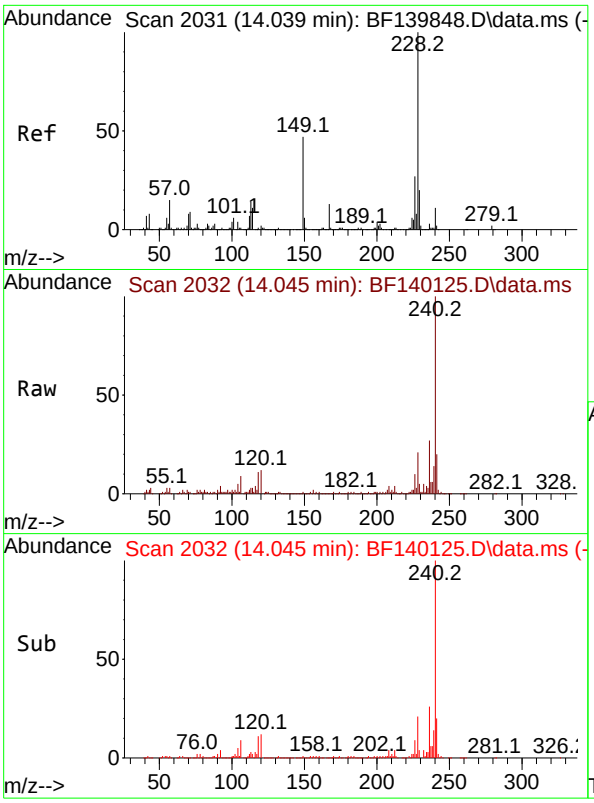


#79
Terphenyl-d14
Concen: 42.418 ng
RT: 12.998 min Scan# 1854
Delta R.T. 0.000 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:244 Resp: 614896

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	9.8	8.6	13.0





#81
Benzo(a)anthracene
Concen: 2.540 ng m
RT: 14.045 min Scan# 2
Delta R.T. 0.006 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

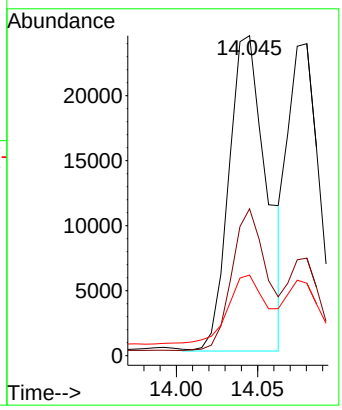
Tgt Ion:228 Resp: 3906

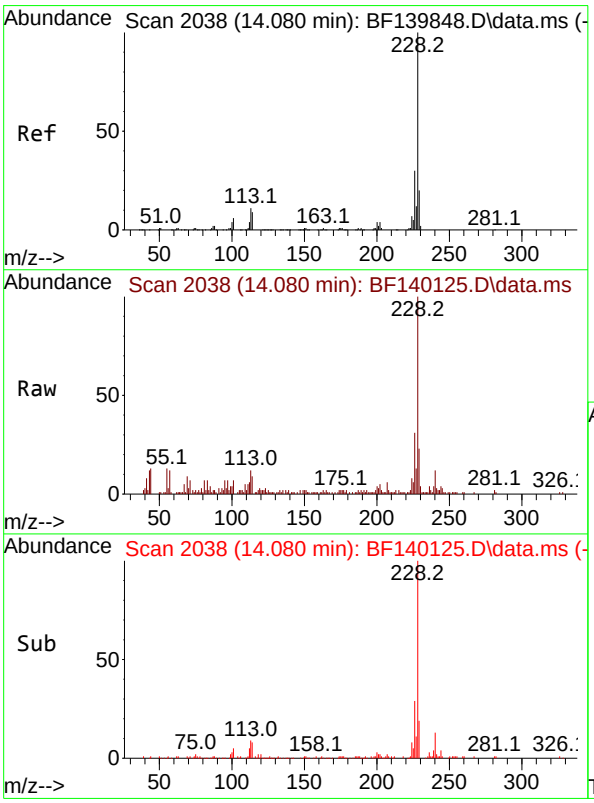
Ion	Ratio	Lower	Upper
228	100		
226	45.9	21.6	32.4
229	25.2	16.1	24.1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

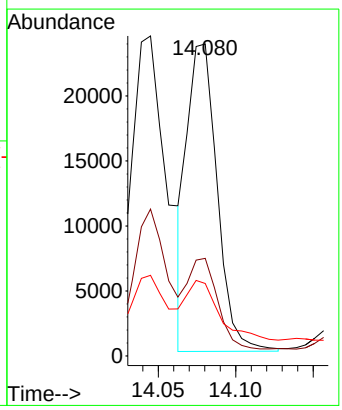


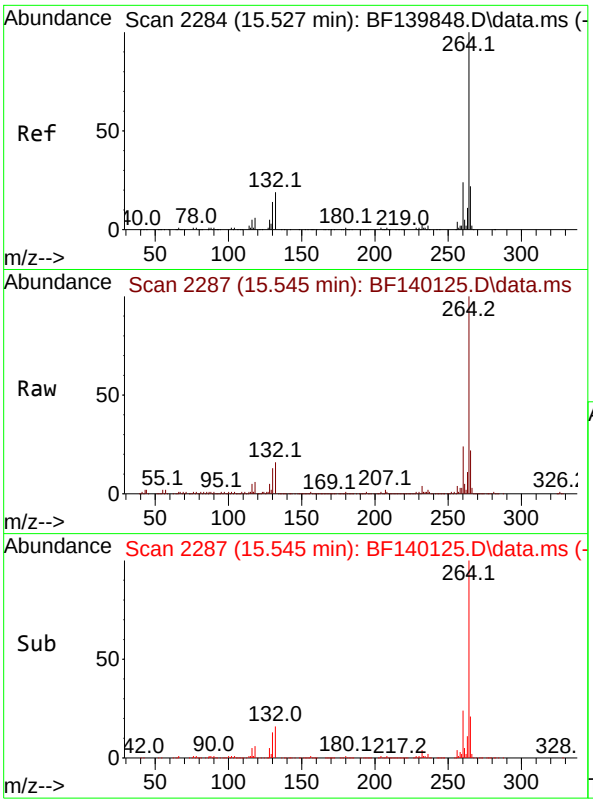


#83
Chrysene
Concen: 2.275 ng
RT: 14.080 min Scan# 2038
Delta R.T. 0.000 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:228 Resp: 32076

Ion	Ratio	Lower	Upper
228	100		
226	31.3	24.1	36.1
229	23.3	15.8	23.6

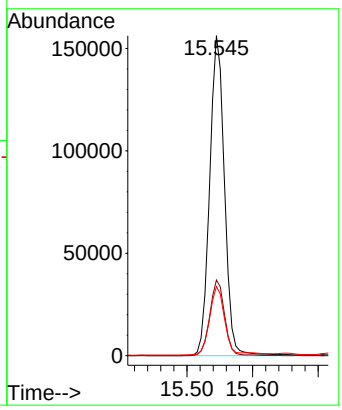




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.545 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:264 Resp: 24486

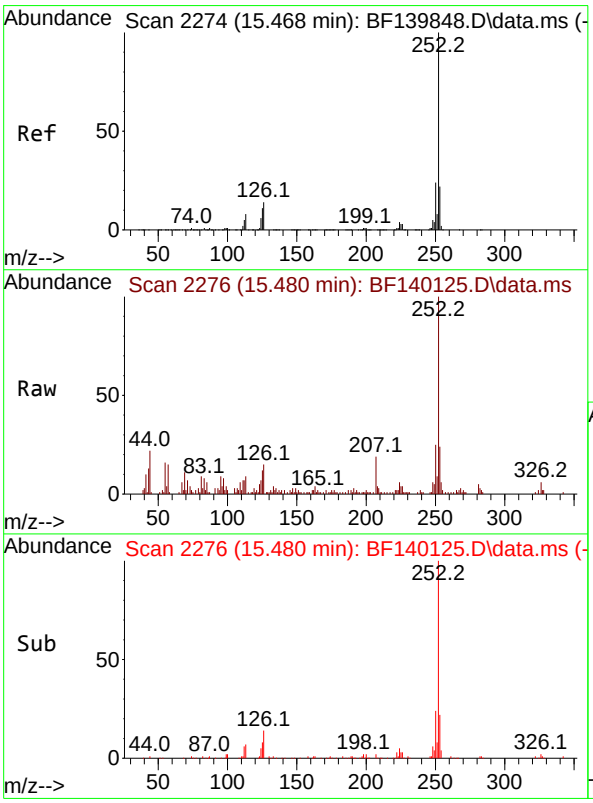
Ion	Ratio	Lower	Upper
264	100		
260	23.7	19.4	29.2
265	21.6	17.4	26.0



Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

Manual Integrations
APPROVED

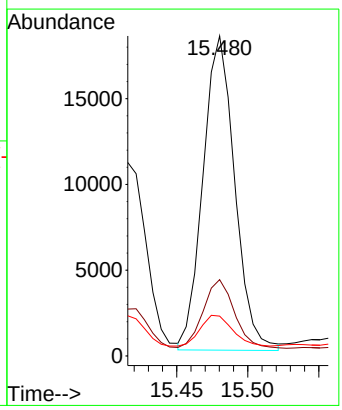
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024



#90
Benzo(a)pyrene
Concen: 2.321 ng
RT: 15.480 min Scan# 2276
Delta R.T. 0.012 min
Lab File: BF140125.D
Acq: 29 Oct 2024 21:13

Tgt Ion:252 Resp: 28489

Ion	Ratio	Lower	Upper
252	100		
253	23.9	17.3	25.9
125	12.4	8.7	13.1



Sample Results: **BF140125.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

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: BF140125.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.193	9	17	25	rVB	1088074	1758043	71.25%	7.928%
2	3.999	318	324	332	rBV	26173	41287	1.67%	0.186%
3	5.122	505	515	520	rVB2	17224	31171	1.26%	0.141%
4	5.510	574	581	586	rBV	1648997	2257782	91.50%	10.182%
5	6.510	744	751	760	rBV	1646359	2345106	95.04%	10.576%
6	6.887	810	815	821	rBV	609379	754398	30.57%	3.402%
7	7.281	876	882	888	rBV2	19713	31166	1.26%	0.141%
8	7.445	901	910	915	rBV	1149031	1535698	62.24%	6.926%
9	7.651	939	945	947	rBV2	19479	29157	1.18%	0.131%
10	7.698	947	953	958	rVB2	68012	117577	4.77%	0.530%
11	7.904	981	988	993	rBV3	32616	57208	2.32%	0.258%
12	8.169	1025	1033	1040	rBV	790526	1086753	44.04%	4.901%
13	8.381	1064	1069	1074	rVB	22820	29587	1.20%	0.133%
14	8.757	1129	1133	1137	rVB	28555	32499	1.32%	0.147%
15	8.881	1150	1154	1158	rVB	52076	61979	2.51%	0.280%
16	8.981	1166	1171	1176	rVB	55762	68391	2.77%	0.308%
17	9.245	1210	1216	1221	rBV	1861894	2467471	100.00%	11.128%
18	9.322	1225	1229	1238	rVB	34980	54911	2.23%	0.248%
19	9.439	1245	1249	1255	rVB	25365	38396	1.56%	0.173%
20	9.504	1255	1260	1265	rBV	27995	43152	1.75%	0.195%
21	9.581	1268	1273	1276	rVV	48747	72916	2.96%	0.329%
22	9.639	1280	1283	1290	rVB3	23533	33547	1.36%	0.151%
23	9.698	1290	1293	1302	rVB	26992	41218	1.67%	0.186%
24	9.781	1303	1307	1311	rVB	29818	38729	1.57%	0.175%
25	9.851	1312	1319	1323	rVB2	20368	30786	1.25%	0.139%
26	9.922	1323	1331	1335	rBV	817926	1056036	42.80%	4.762%
27	9.957	1335	1337	1341	rVB	54373	53837	2.18%	0.243%
28	10.122	1361	1365	1369	rBV3	23629	32062	1.30%	0.145%
29	10.239	1380	1385	1388	rBV2	21928	34086	1.38%	0.154%
30	10.328	1396	1400	1406	rBV4	21879	49834	2.02%	0.225%
31	10.469	1421	1424	1429	rVB2	30697	39082	1.58%	0.176%
32	10.575	1437	1442	1447	rVV3	27728	58376	2.37%	0.263%
33	10.633	1447	1452	1459	rVV	391177	501396	20.32%	2.261%
34	10.710	1459	1465	1477	rVV	881778	1150978	46.65%	5.191%
35	10.833	1481	1486	1493	rVB	42768	71871	2.91%	0.324%
36	10.945	1501	1505	1509	rBV	23217	28240	1.14%	0.127%

Sample Results: **BF140125.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

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	11.016	1512	1517	1520	rBV3	26625	41409	1.68%	0.187%
38	11.304	1563	1566	1572	rVB2	34728	49619	2.01%	0.224%
39	11.410	1579	1584	1592	rBV2	665165	984176	39.89%	4.438%
40	11.480	1592	1596	1600	rVB	45007	62774	2.54%	0.283%
41	11.933	1665	1673	1679	rBV2	211475	375151	15.20%	1.692%
42	12.022	1685	1688	1697	rVB	83676	174038	7.05%	0.785%
43	12.463	1759	1763	1766	rBV	33039	39648	1.61%	0.179%
44	12.498	1766	1769	1775	rVB2	29925	47729	1.93%	0.215%
45	12.557	1775	1779	1786	rVB4	19367	42834	1.74%	0.193%
46	12.622	1786	1790	1794	rBV	104452	145188	5.88%	0.655%
47	12.663	1794	1797	1803	rVB	146157	185046	7.50%	0.835%
48	12.716	1803	1806	1814	rVB	43486	60423	2.45%	0.272%
49	12.851	1825	1829	1835	rVB	111655	155023	6.28%	0.699%
50	12.998	1848	1854	1862	rVB	1243943	1626866	65.93%	7.337%
51	13.074	1863	1867	1874	rVV2	20130	37320	1.51%	0.168%
52	13.180	1879	1885	1889	rVB	41687	72574	2.94%	0.327%
53	13.286	1900	1903	1910	rVB2	25780	38825	1.57%	0.175%
54	13.898	2002	2007	2015	rBV	74421	135355	5.49%	0.610%
55	13.969	2016	2019	2025	rVB4	24151	29976	1.21%	0.135%
56	14.051	2027	2033	2045	rBV2	544721	870255	35.27%	3.925%
57	15.110	2209	2213	2221	rVB	37266	81467	3.30%	0.367%
58	15.416	2262	2265	2271	rVB	29110	43379	1.76%	0.196%
59	15.480	2272	2276	2281	rVV	44652	69894	2.83%	0.315%
60	15.545	2281	2287	2300	rVB	411809	670432	27.17%	3.023%

Sum of corrected areas: 22174127

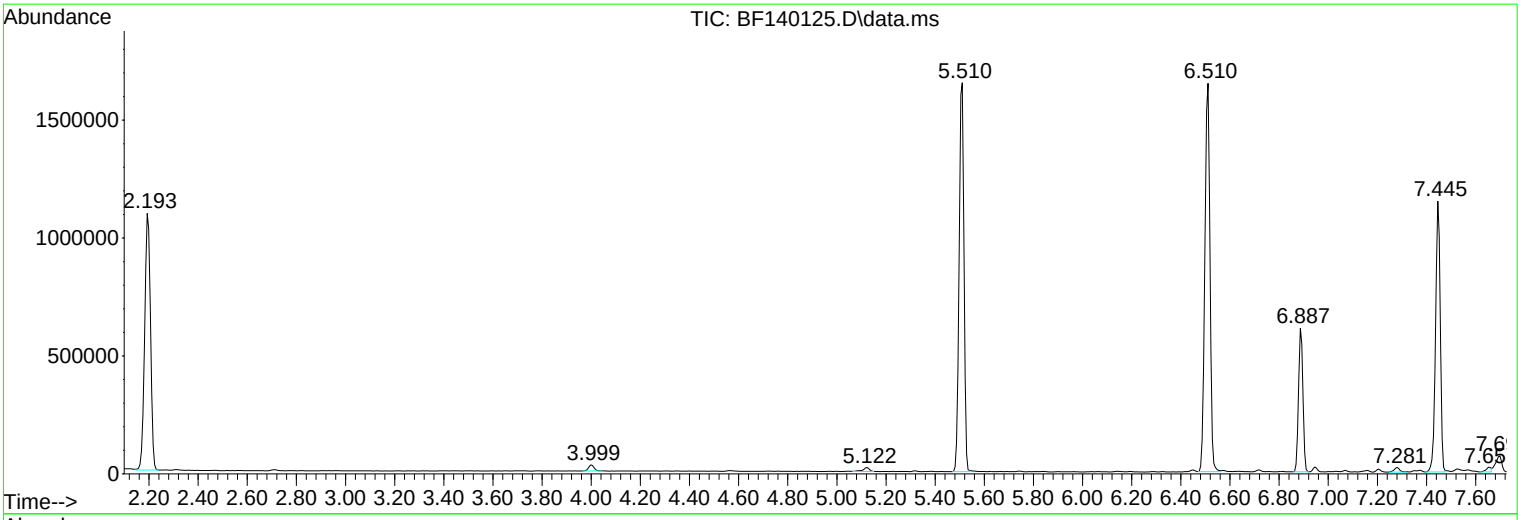
Sample Results: **BF140125.D**

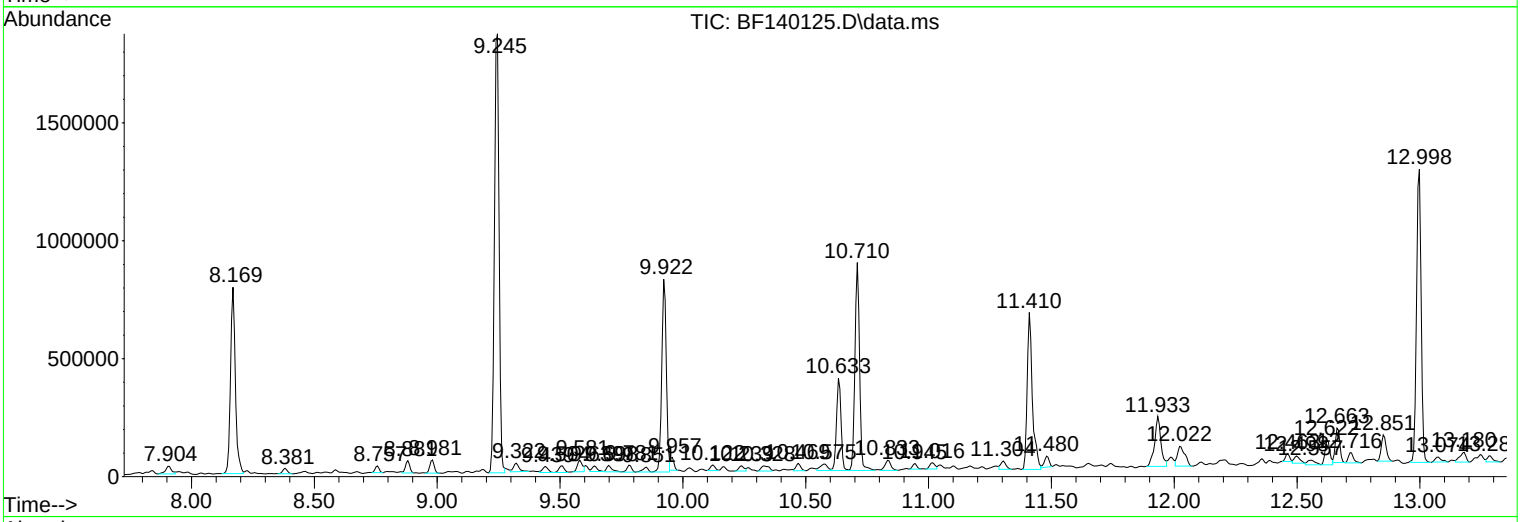
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

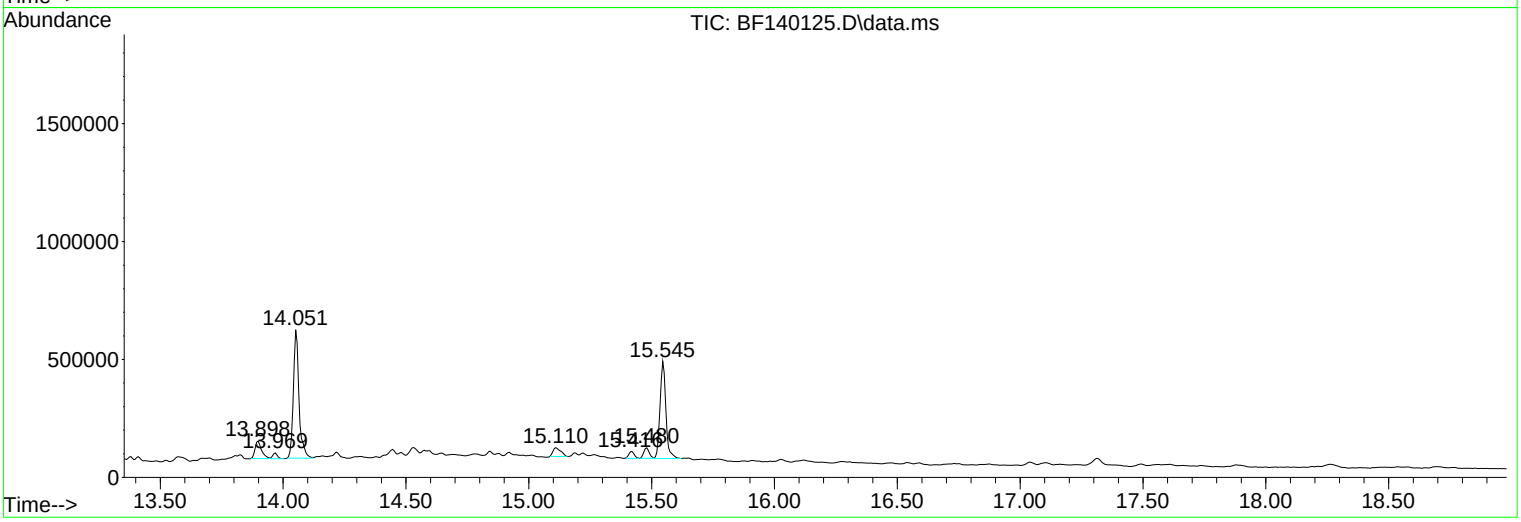
Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

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\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

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

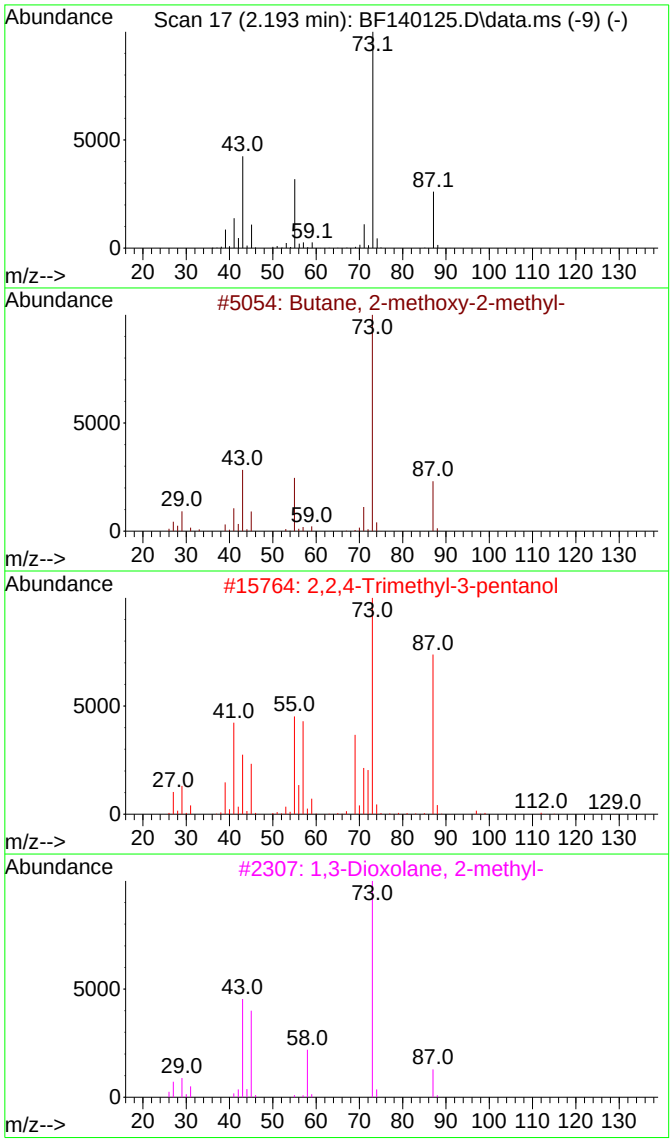
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

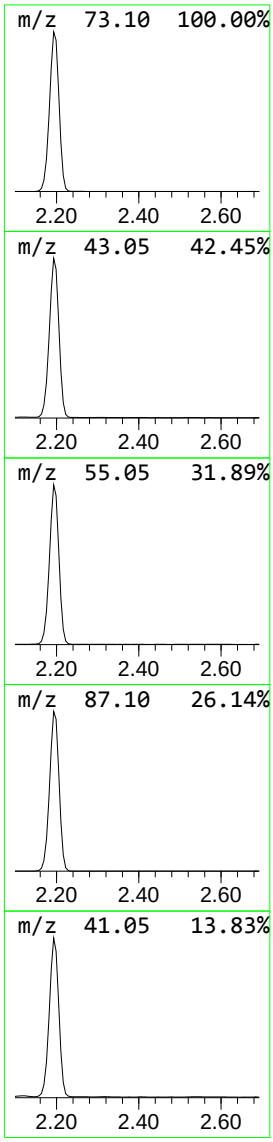
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.193	46.61 ng	1758040	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	40
3	1,3-Dioxolane, 2-methyl-	88	C4H8O2	000497-26-7	23
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\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

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

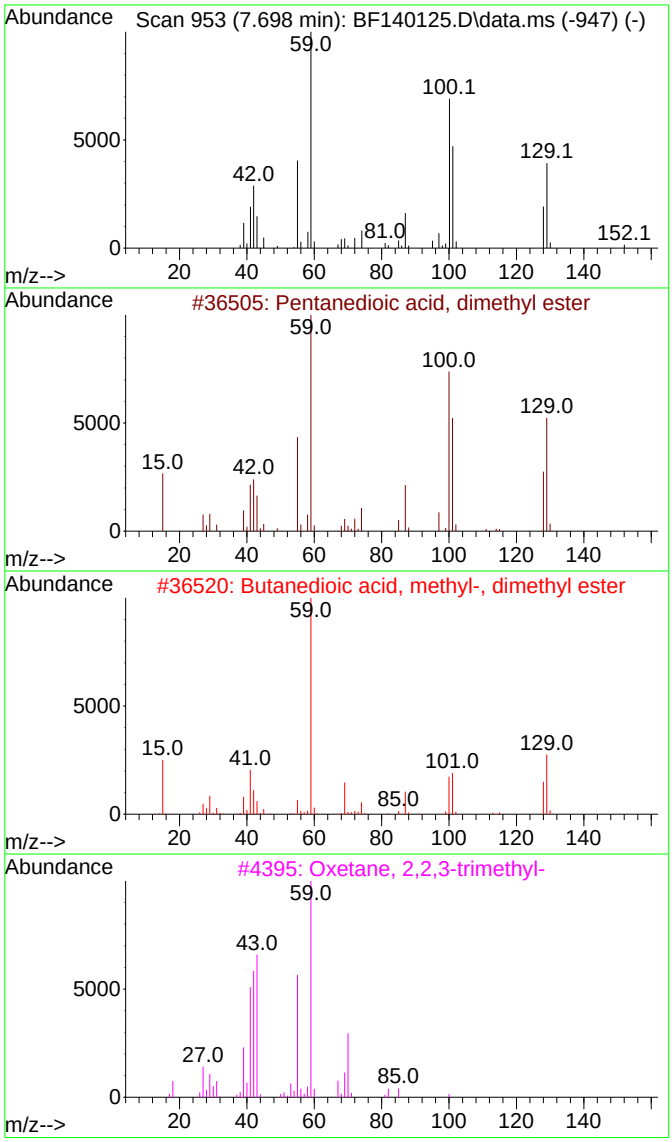
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

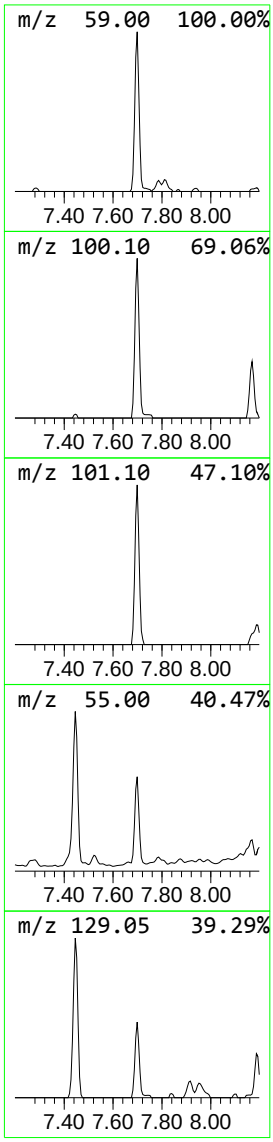
****

Peak Number 2 Pentanedioic acid, dimethyl... Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.698	2.16 ng	117577	Naphthalene-d8	8.169

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanedioic acid, dimethyl ester	160	C7H12O4	001119-40-0	91
2	Butanedioic acid, methyl-, dimet...	160	C7H12O4	001604-11-1	45
3	Oxetane, 2,2,3-trimethyl-	100	C6H12O	023120-43-6	27
4	Hydrazine, 1,1-bis(1-methylethyl)-	116	C6H16N2	000921-14-2	23
5	Butyric acid, 3-bromo-, methyl e...	180	C5H9BrO2	021249-59-2	23





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

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

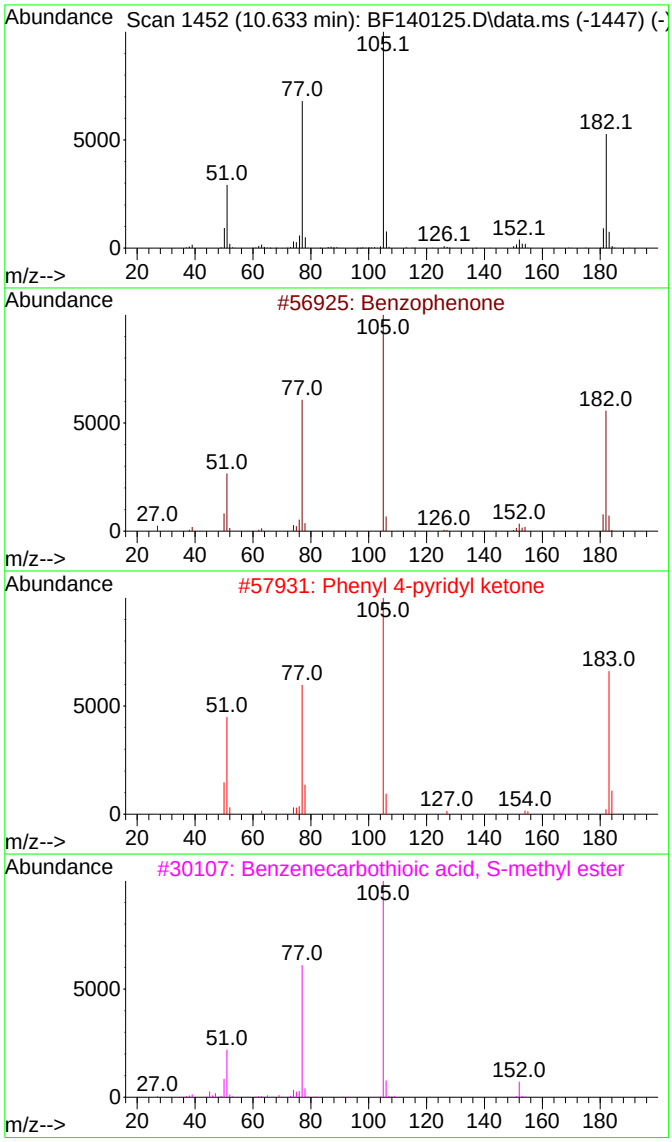
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

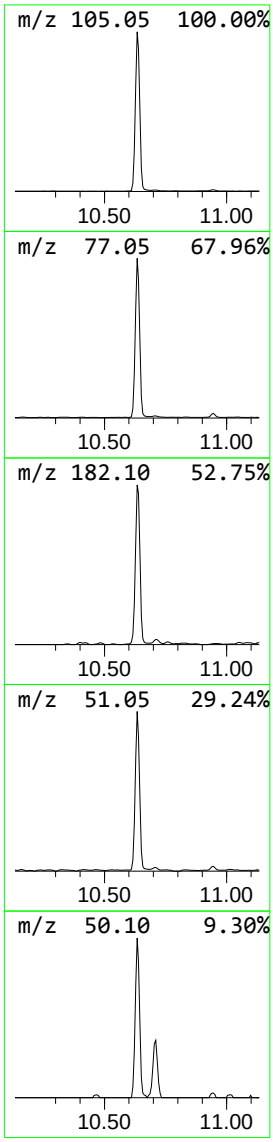
****

Peak Number 3 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.634	9.50 ng	501396	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	58
3	Benzenecarbothioic acid, S-methy...	152	C8H8OS	005925-68-8	52
4	acetic acid, 2-bromo-, 2-oxo-2-p...	256	C10H9BrO3	1000401-50-0	47
5	Ethanone, 2,2,2-trifluoro-1-phenyl-	174	C8H5F3O	000434-45-7	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

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

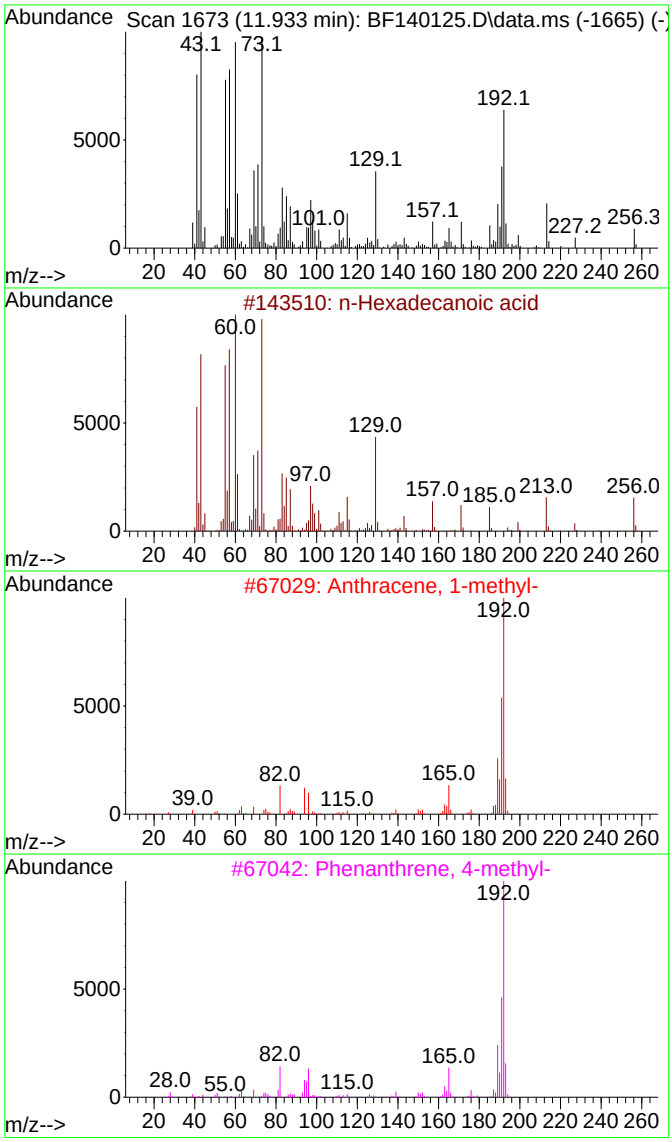
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

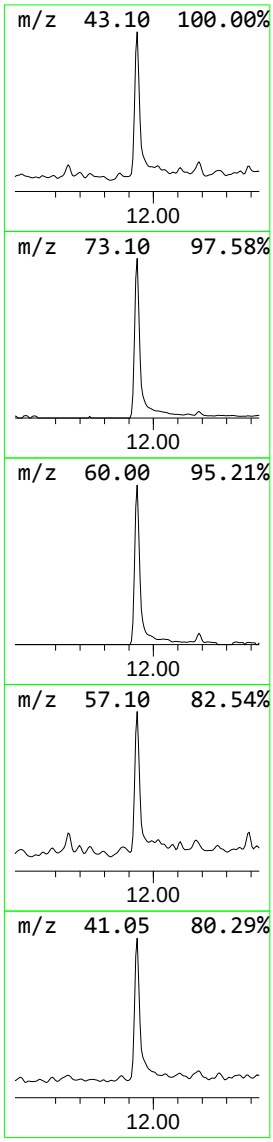
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.933	7.62 ng	375151	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	99
2	Anthracene, 1-methyl-	192	C15H12	000610-48-0	90
3	Phenanthrene, 4-methyl-	192	C15H12	000832-64-4	90
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	83
5	Anthracene, 2-methyl-	192	C15H12	000613-12-7	62





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Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

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

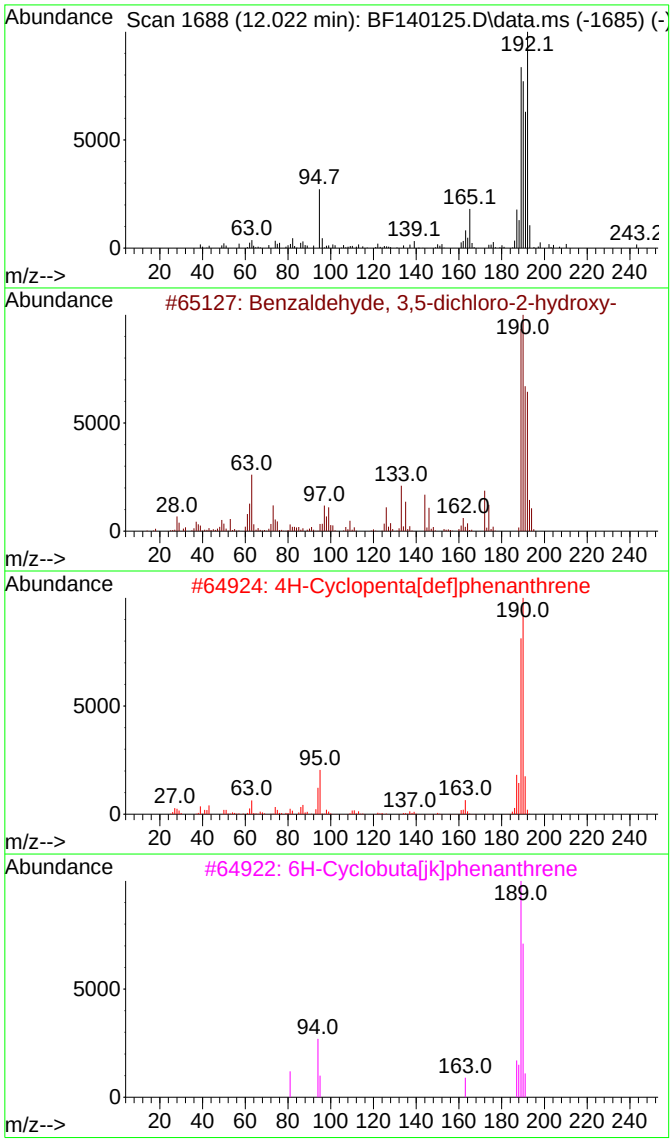
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

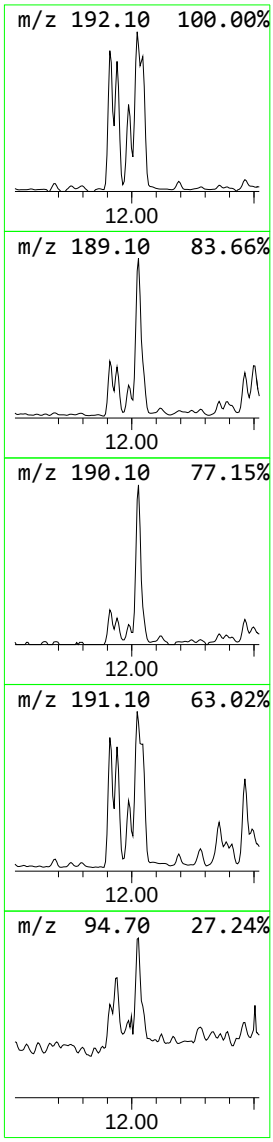
****

Peak Number 5 Benzaldehyde, 3,5-dichloro-... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.022	3.54 ng	174038	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzaldehyde, 3,5-dichloro-2-hyd...	190	C7H4Cl2O2	000090-60-8	53
2	4H-Cyclopenta[def]phenanthrene	190	C15H10	000203-64-5	49
3	6H-Cyclobuta[jk]phenanthrene	190	C15H10	083469-43-6	46
4	Naphtho[1,2-b]norbornadiene	192	C15H12	1000210-14-8	41
5	2,2'-Bis(4,5-dimethylimidazole)	190	C10H14N4	069286-06-2	38





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

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

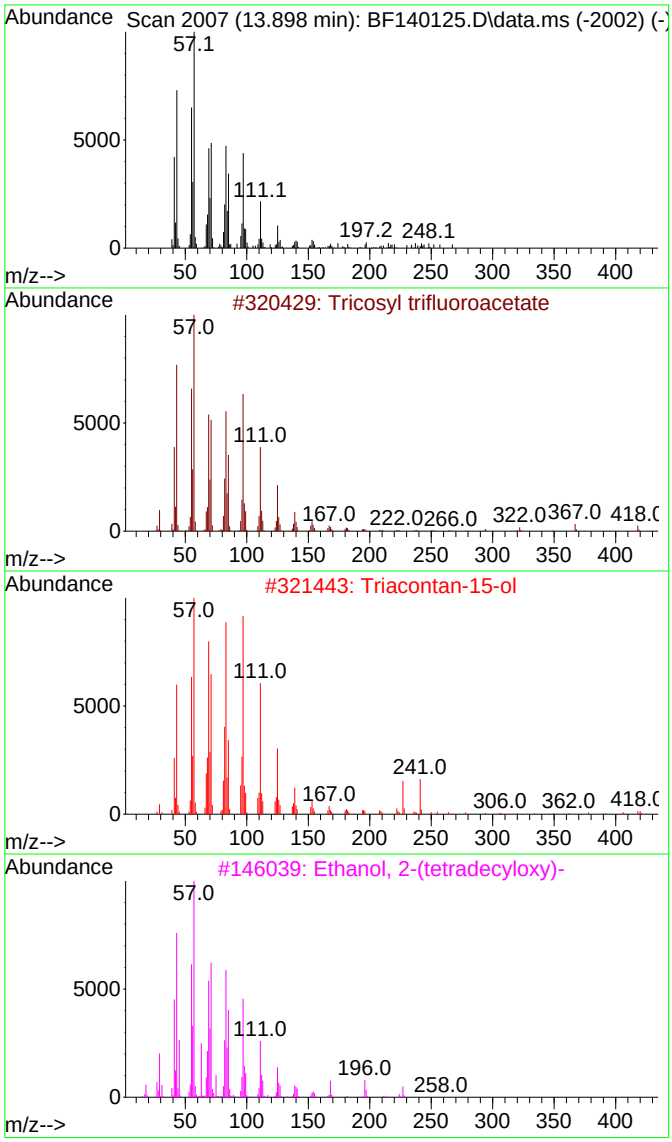
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

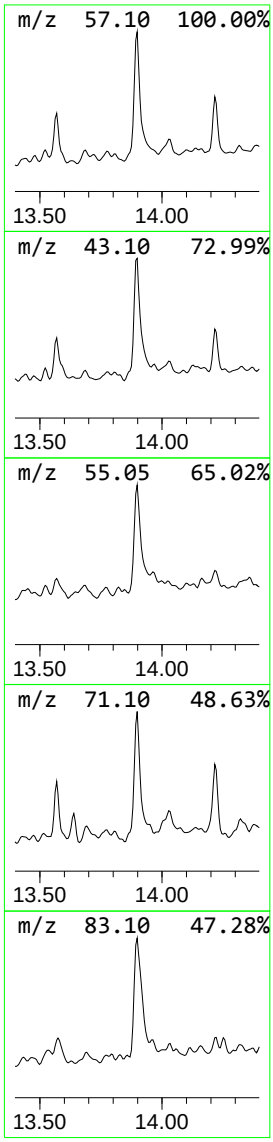
****

Peak Number 6 Tricosyl trifluoroacetate Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.898	3.11 ng	135355	Chrysene-d12	14.051

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tricosyl trifluoroacetate	436	C25H47F3O2	1000351-75-1	91
2	Triacontan-15-ol	438	C30H62O	031849-26-0	91
3	Ethanol, 2-(tetradecyloxy)-	258	C16H34O2	002136-70-1	91
4	Hexacosyl heptafluorobutyrate	578	C30H53F7O2	1000351-83-3	91
5	Octacosyl trifluoroacetate	506	C30H57F3O2	1000351-74-9	91





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Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

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

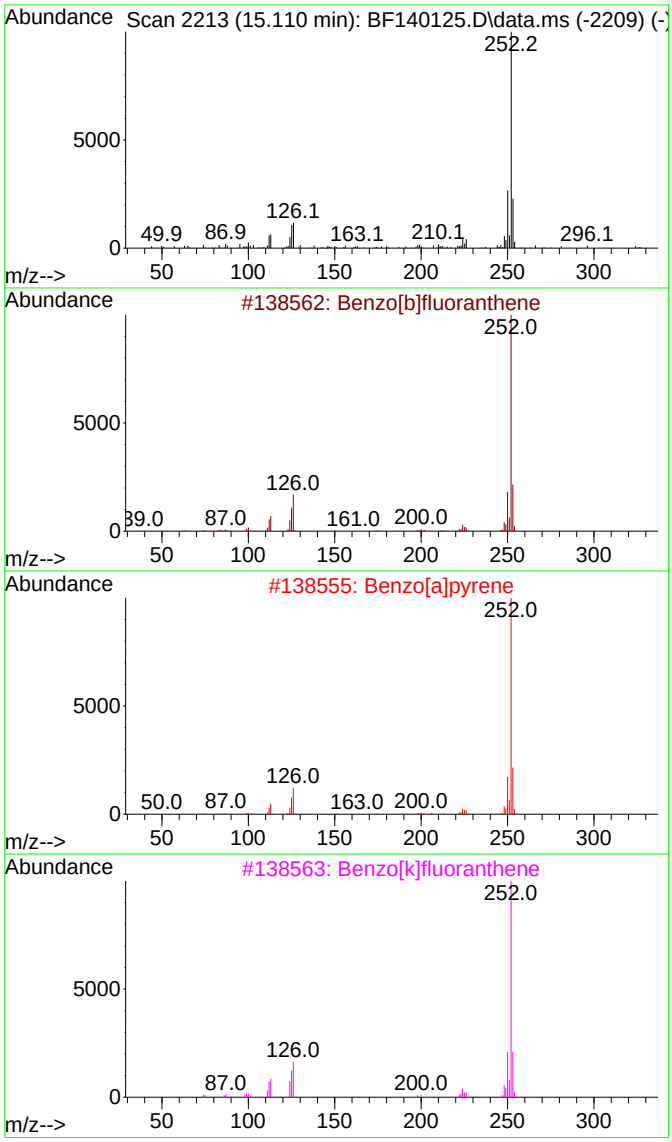
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

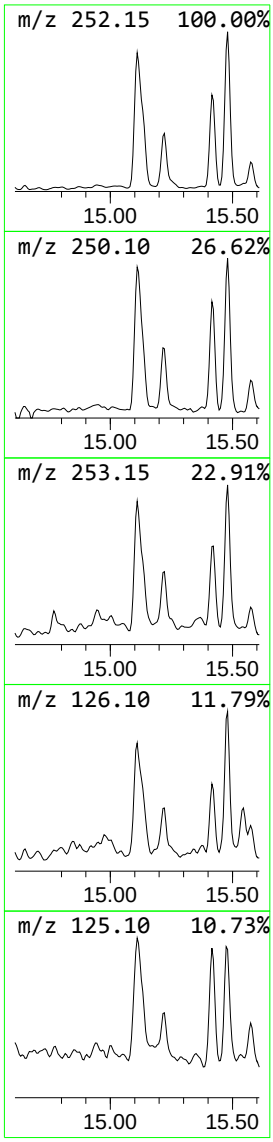
****

Peak Number 7 Benzo[e]pyrene Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
15.110	2.43 ng	81467	Perylene-d12	15.545

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzo[b]fluoranthene	252	C20H12	000205-99-2	96
2	Benzo[a]pyrene	252	C20H12	000050-32-8	94
3	Benzo[k]fluoranthene	252	C20H12	000207-08-9	93
4	Benzo[e]pyrene	252	C20H12	000192-97-2	90
5	Benzo[j]fluoranthene	252	C20H12	000205-82-3	90





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140125.D
Acq On : 29 Oct 2024 21:13
Operator : RC/JU
Sample : P4578-04
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-TOP-1

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...	2.193	46.6	ng	1758040	1	6.887	754398	20.0
Pentanedioic ac...	7.698	2.2	ng	117577	2	8.169	1086750	20.0
Benzophenone	10.634	9.5	ng	501396	3	9.922	1056040	20.0
n-Hexadecanoic ...	11.933	7.6	ng	375151	4	11.410	984176	20.0
Benzaldehyde, 3...	12.022	3.5	ng	174038	4	11.410	984176	20.0
Tricosyl triflu...	13.898	3.1	ng	135355	5	14.051	870255	20.0
Benzo[e]pyrene	15.110	2.4	ng	81467	6	15.545	670432	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Quant Time: Oct 29 14:53:25 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

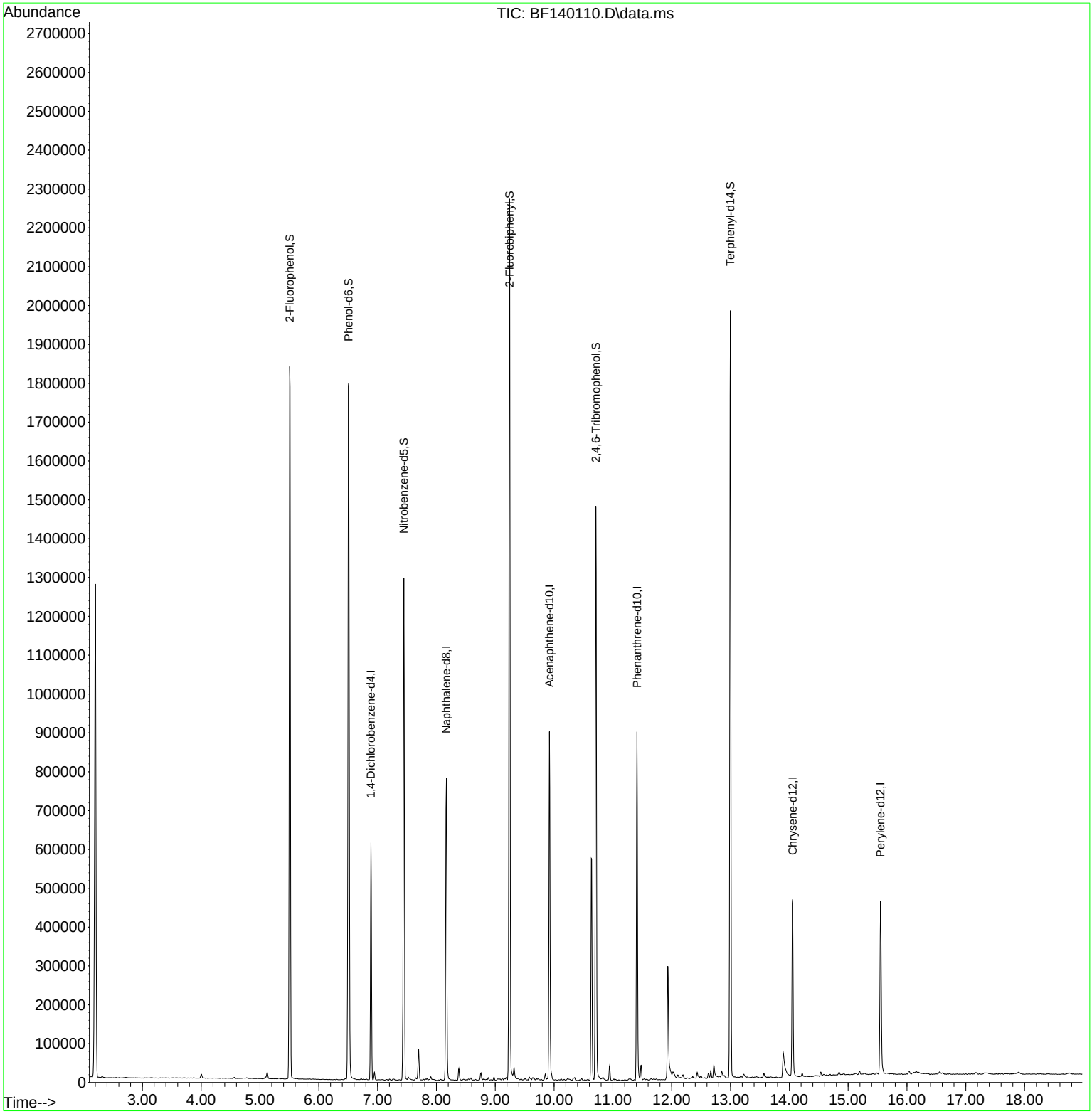
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	120686	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	473213	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	267166	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	461039	20.000	ng	0.00
76) Chrysene-d12	14.057	240	224689	20.000	ng	0.00
86) Perylene-d12	15.551	264	271519	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	693174	89.916	ng	0.00
7) Phenol-d6	6.504	99	886850	88.822	ng	0.00
23) Nitrobenzene-d5	7.446	82	564898	66.162	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	255776	102.352	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1068584	66.103	ng	0.00
79) Terphenyl-d14	12.998	244	977691	70.904	ng	0.00
Target Compounds						Qvalue

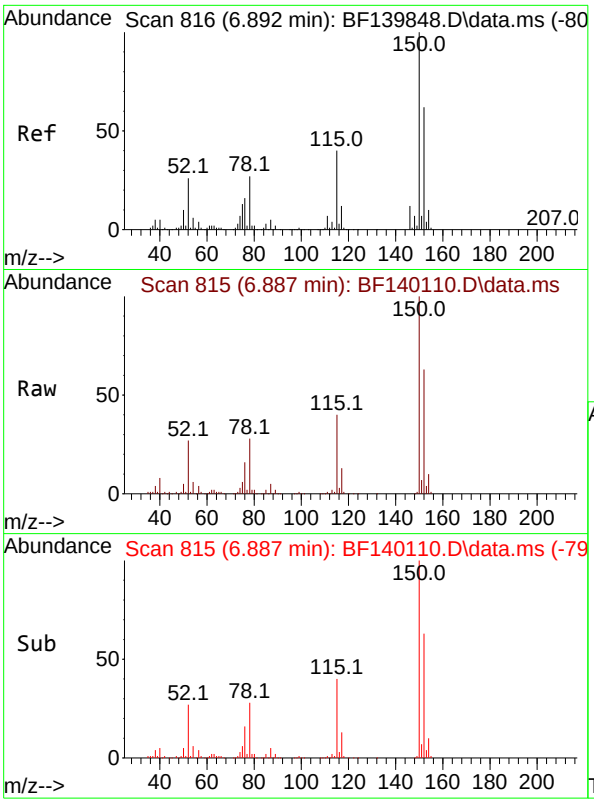
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Quant Time: Oct 29 14:53:25 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



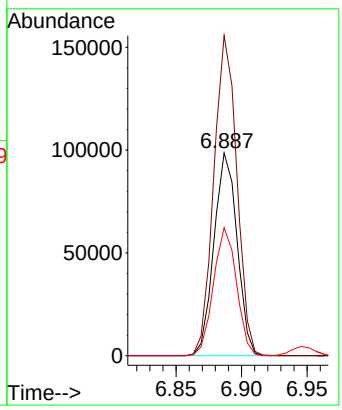


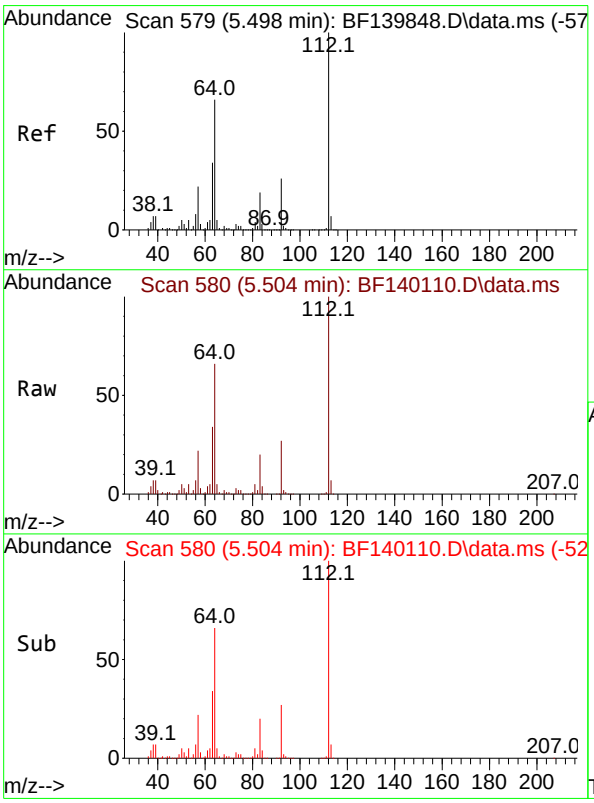
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion:152 Resp: 120686

Ion	Ratio	Lower	Upper
152	100		
150	157.9	130.2	195.2
115	63.1	51.4	77.2

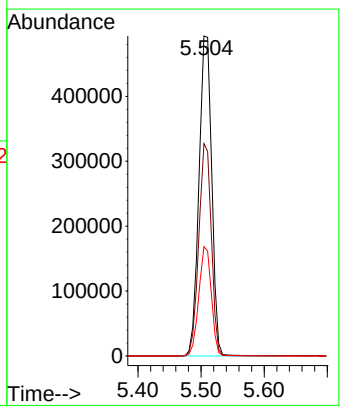


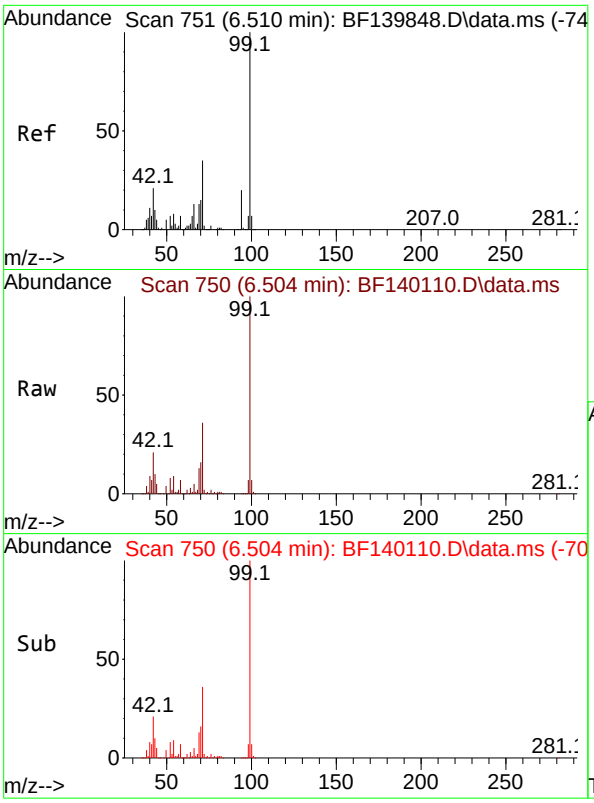


#5
2-Fluorophenol
Concen: 89.916 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Tgt Ion:112 Resp: 693174

Ion	Ratio	Lower	Upper
112	100		
64	66.4	53.0	79.6
63	34.1	27.0	40.4



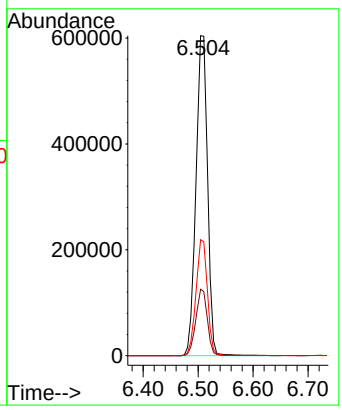


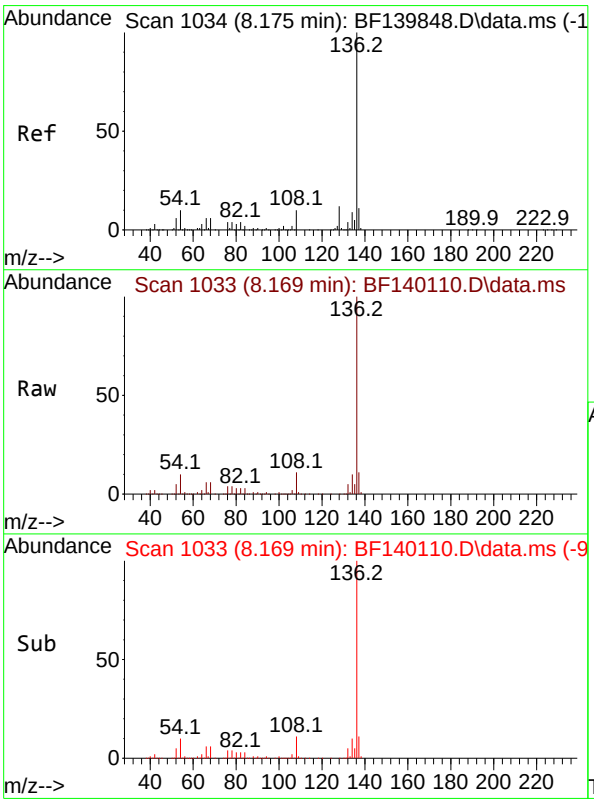
#7
Phenol-d6
Concen: 88.822 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion: 99 Resp: 886850

Ion	Ratio	Lower	Upper
99	100		
42	20.8	16.7	25.1
71	36.2	27.7	41.5

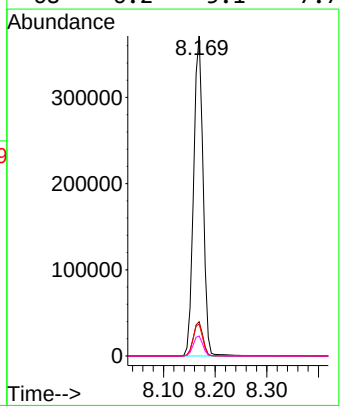


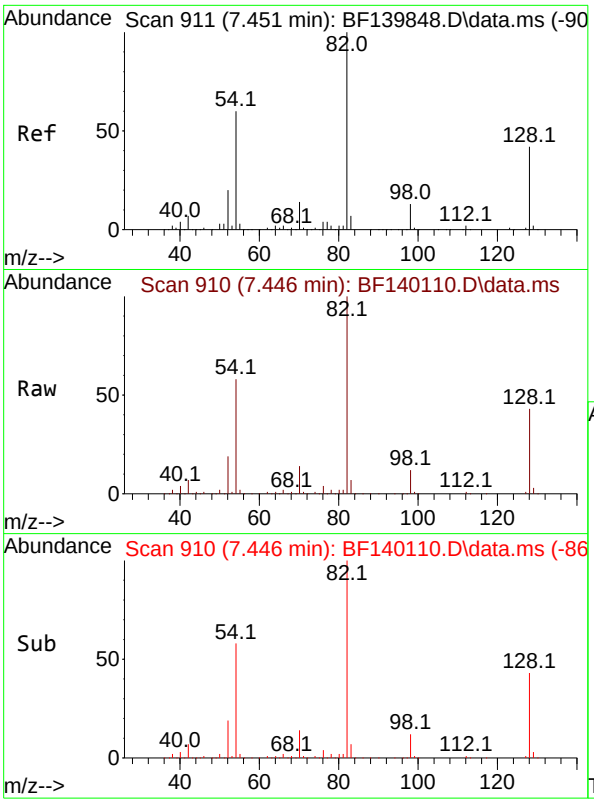


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Tgt Ion:136 Resp: 473213

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	12.8
54	9.9	8.4	12.6
68	6.2	5.1	7.7



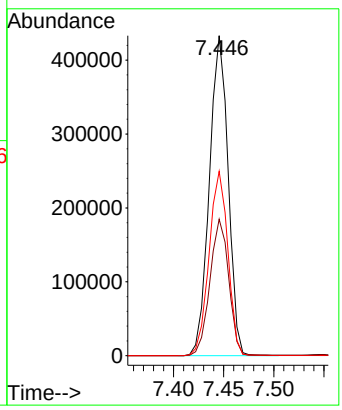


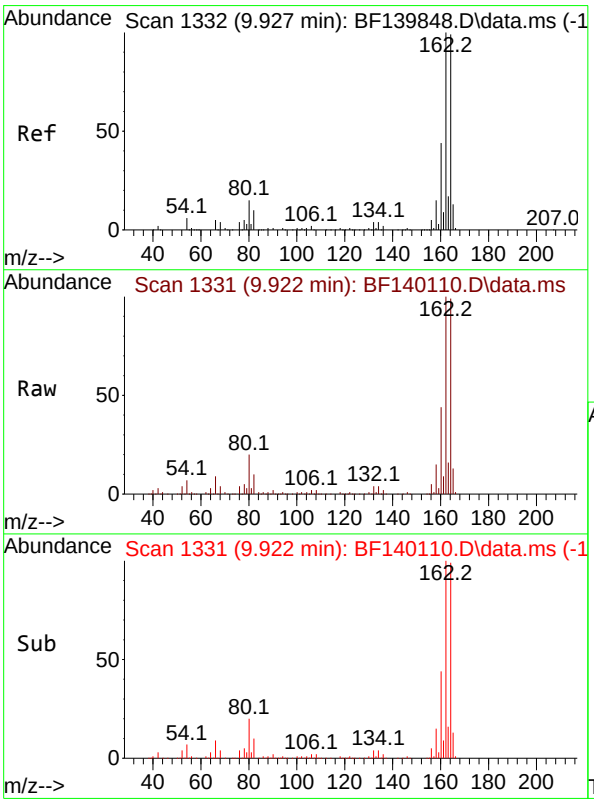
#23
Nitrobenzene-d5
Concen: 66.162 ng
RT: 7.446 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion: 82 Resp: 564898

Ion	Ratio	Lower	Upper
82	100		
128	42.7	33.4	50.0
54	57.6	47.8	71.8

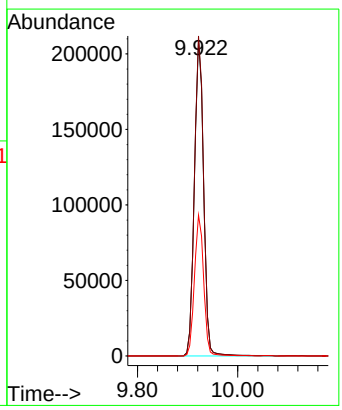


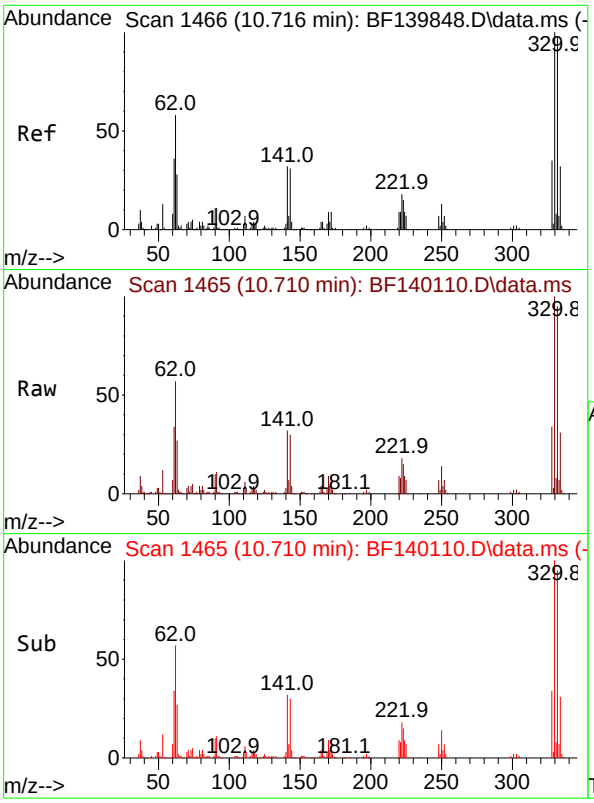


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Tgt Ion:164 Resp: 267166

Ion	Ratio	Lower	Upper
164	100		
162	101.2	81.0	121.4
160	44.5	35.4	53.0



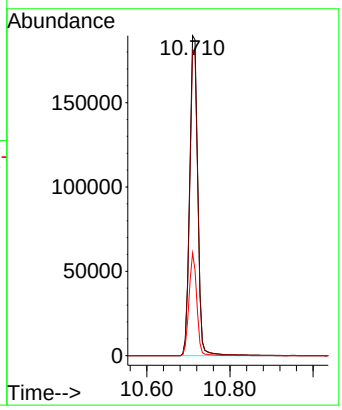


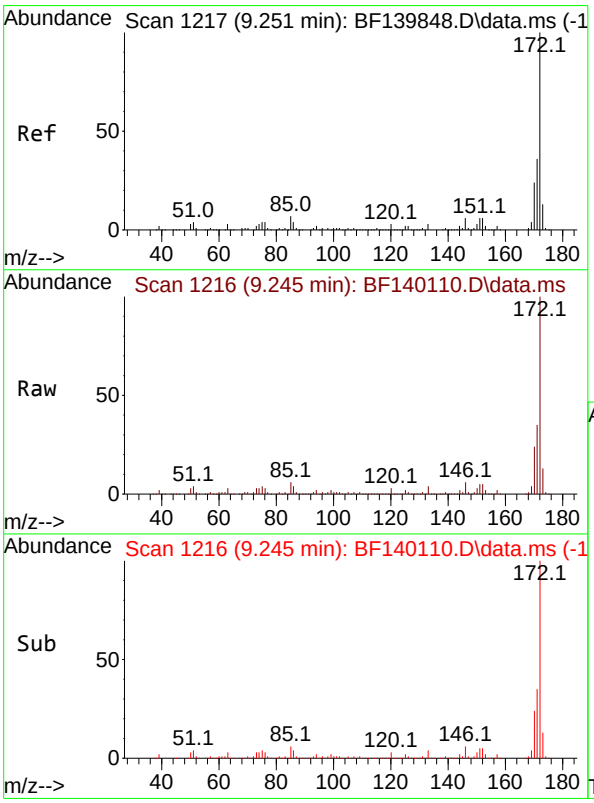
#42
2,4,6-Tribromophenol
Concen: 102.352 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion:330 Resp: 255776

Ion	Ratio	Lower	Upper
330	100		
332	96.3	78.1	117.1
141	30.8	26.6	39.8

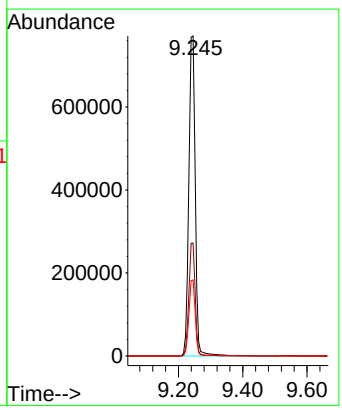


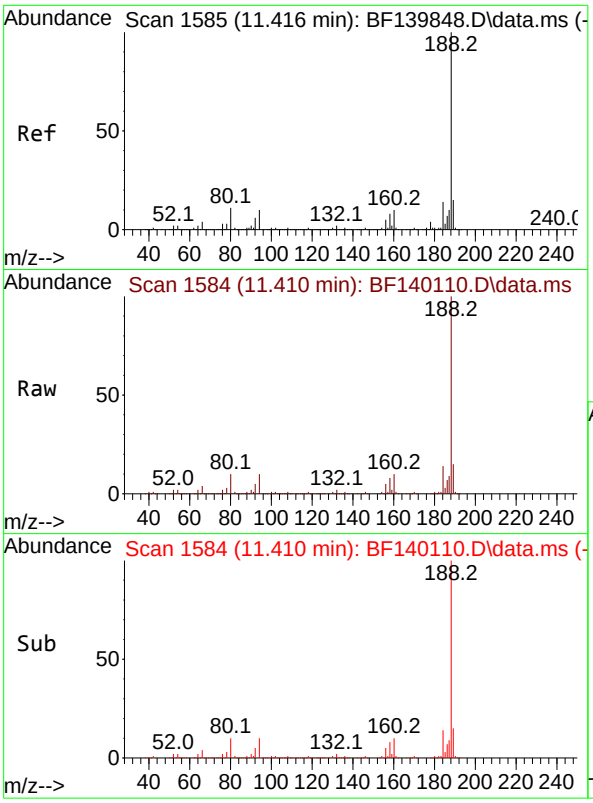


#45
2-Fluorobiphenyl
Concen: 66.103 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Tgt Ion:172 Resp: 1068584

Ion	Ratio	Lower	Upper
172	100		
171	35.3	28.6	43.0
170	23.7	19.1	28.7



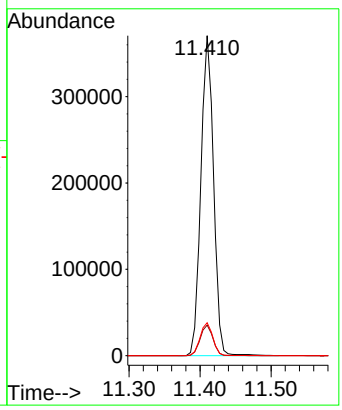


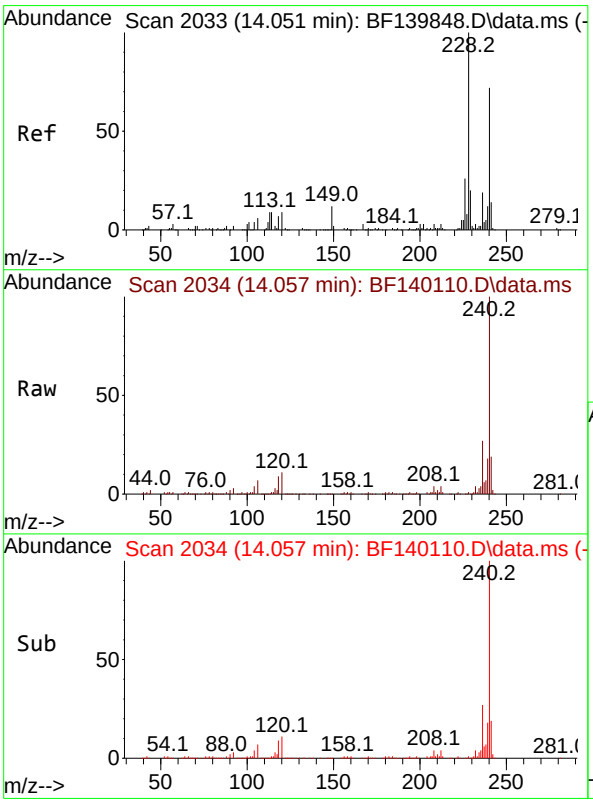
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion:188 Resp: 461039

Ion	Ratio	Lower	Upper
188	100		
94	9.6	7.9	11.9
80	10.3	9.0	13.4

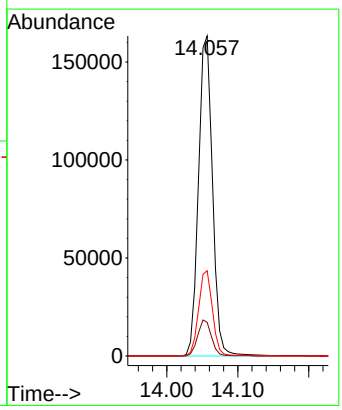


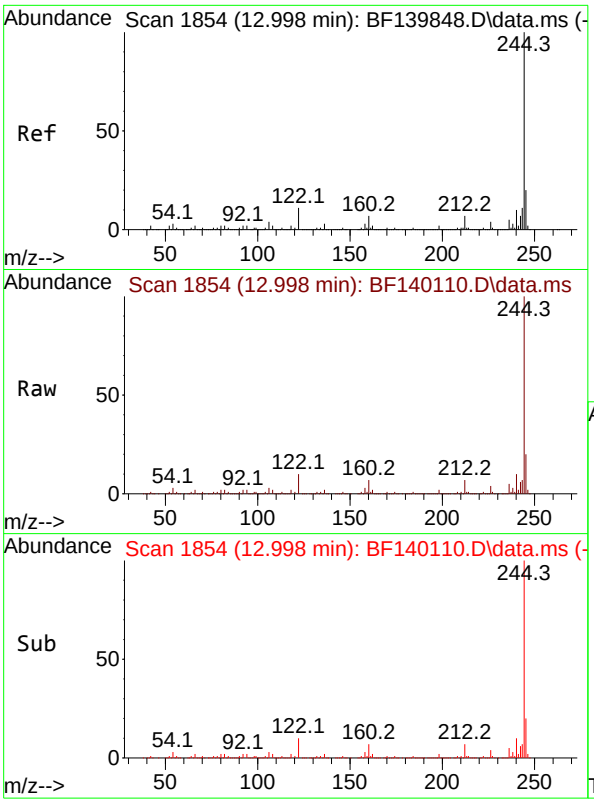


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2034
Delta R.T. 0.006 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Tgt Ion:240 Resp: 224689

Ion	Ratio	Lower	Upper
240	100		
120	10.5	9.4	14.2
236	26.7	20.9	31.3



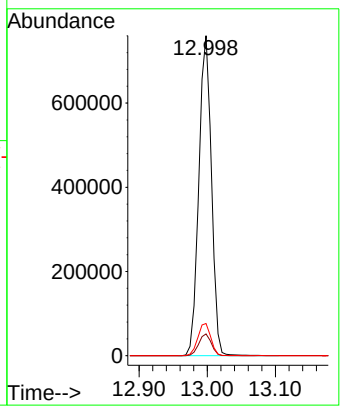


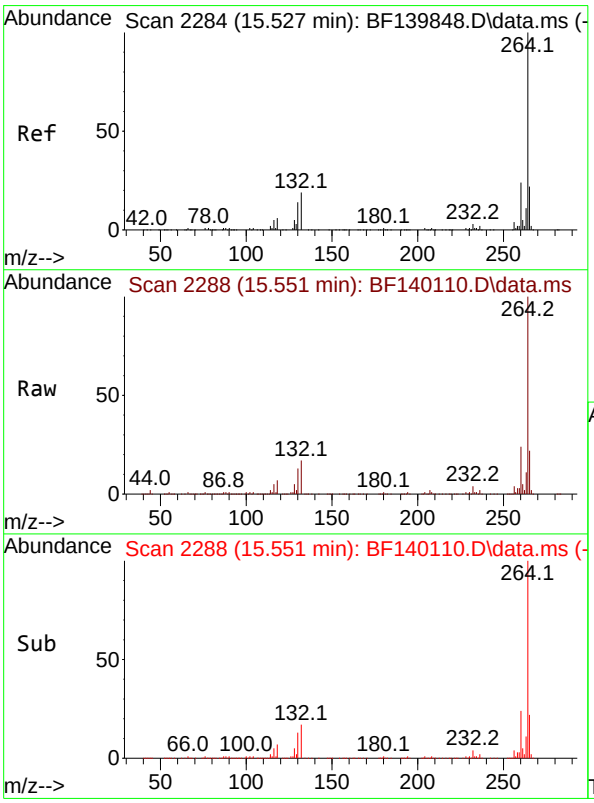
#79
Terphenyl-d14
Concen: 70.904 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

Tgt Ion:244 Resp: 977691

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	10.1	8.6	13.0

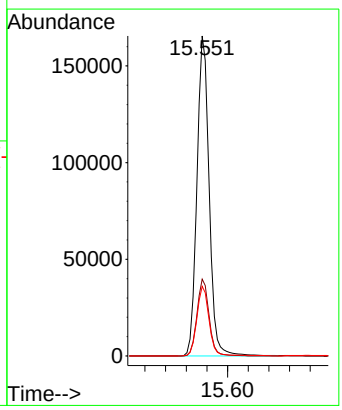




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.551 min Scan# 2288
Delta R.T. 0.024 min
Lab File: BF140110.D
Acq: 29 Oct 2024 14:16

Tgt Ion:264 Resp: 271519

Ion	Ratio	Lower	Upper
264	100		
260	24.0	19.4	29.2
265	21.8	17.4	26.0



Sample Results: **BF140110.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

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

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

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

Signal : TIC: BF140110.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.199	10	18	26	rVB	1269523	2020418	65.93%	8.537%
2	5.504	574	580	586	rBV	1833415	2533761	82.68%	10.706%
3	6.510	744	751	774	rVB	1793140	2685380	87.63%	11.346%
4	6.887	810	815	820	rBV	610280	741977	24.21%	3.135%
5	7.446	902	910	915	rBV	1292894	1691908	55.21%	7.149%
6	7.698	947	953	960	rVB2	79814	104509	3.41%	0.442%
7	8.169	1024	1033	1041	rBV	778342	1017598	33.21%	4.300%
8	8.381	1065	1069	1077	rBV	29395	39402	1.29%	0.166%
9	9.239	1209	1215	1225	rBV	2267904	3064468	100.00%	12.948%
10	9.322	1225	1229	1238	rVB	27662	46175	1.51%	0.195%
11	9.922	1326	1331	1336	rBV	893536	1120838	36.58%	4.736%
12	10.634	1447	1452	1459	rBV	571886	749452	24.46%	3.167%
13	10.710	1459	1465	1480	rVV	1474510	1933513	63.09%	8.170%
14	10.945	1501	1505	1510	rVB	37265	46017	1.50%	0.194%
15	11.410	1579	1584	1592	rBV	897493	1143972	37.33%	4.834%
16	11.481	1592	1596	1600	rVB3	37179	50038	1.63%	0.211%
17	11.933	1665	1673	1685	rBV	292080	472834	15.43%	1.998%
18	12.022	1685	1688	1698	rVB2	15010	37249	1.22%	0.157%
19	12.716	1802	1806	1820	rBV	32920	63656	2.08%	0.269%
20	12.998	1848	1854	1859	rBV	1974499	2551951	83.28%	10.783%
21	13.898	2001	2007	2027	rBV	63097	189551	6.19%	0.801%
22	14.057	2028	2034	2043	rVB	454752	638333	20.83%	2.697%
23	15.551	2282	2288	2301	rBV	444863	724454	23.64%	3.061%

Sum of corrected areas: 23667454

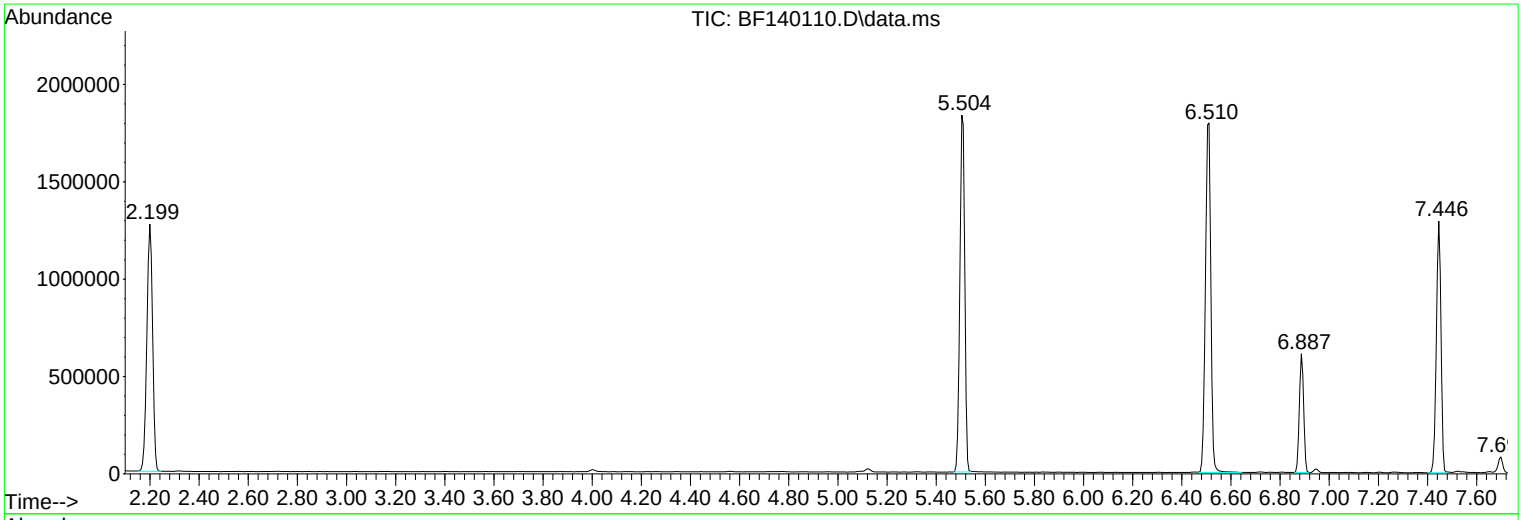
Sample Results: **BF140110.D**

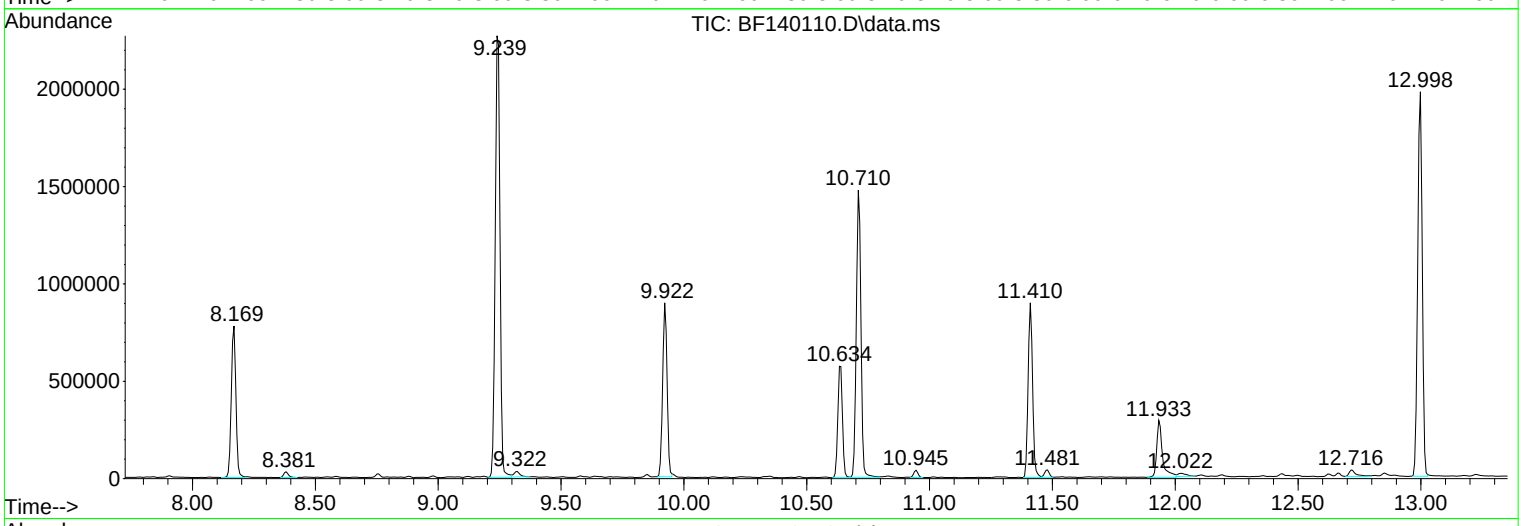
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

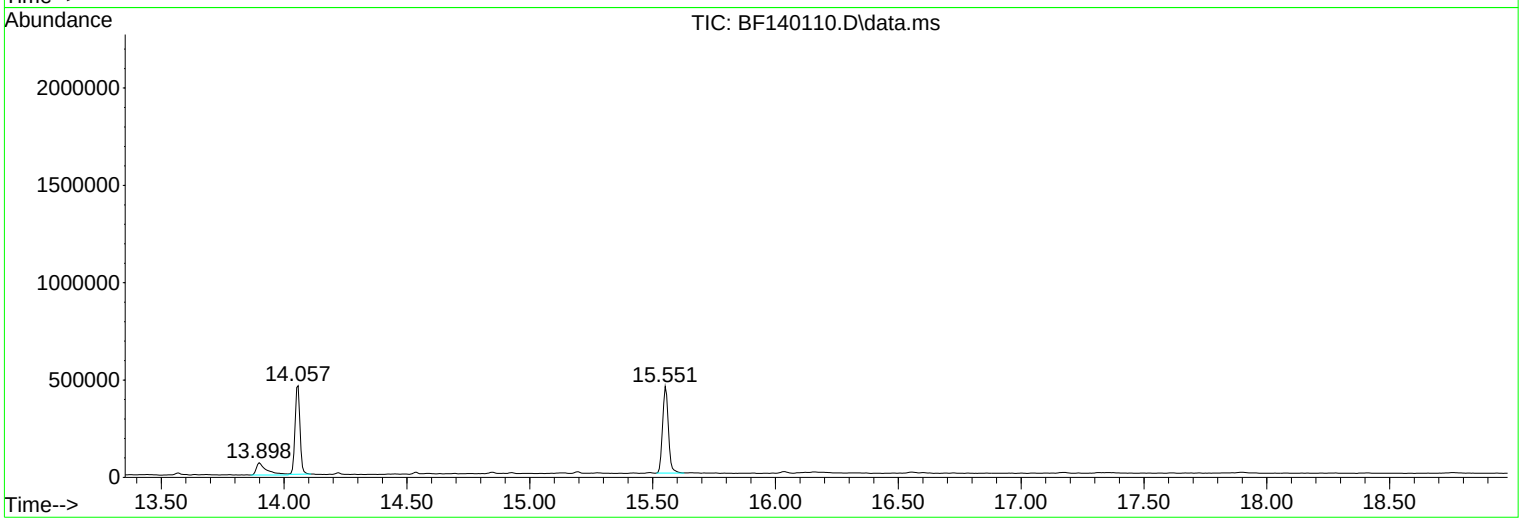
Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

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\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

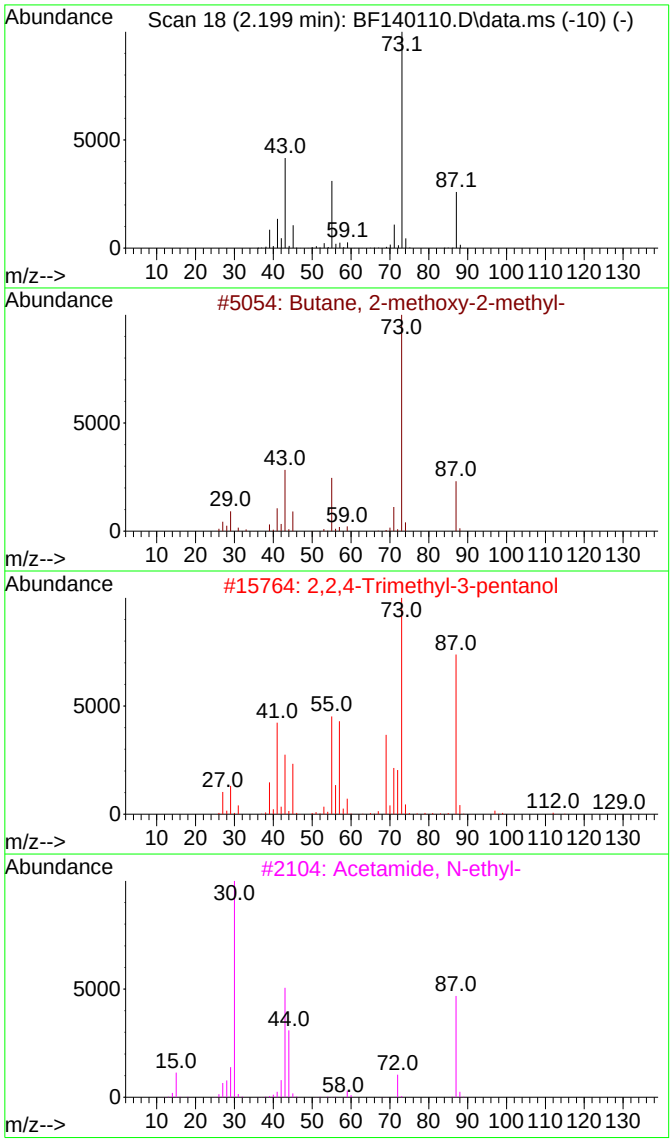
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

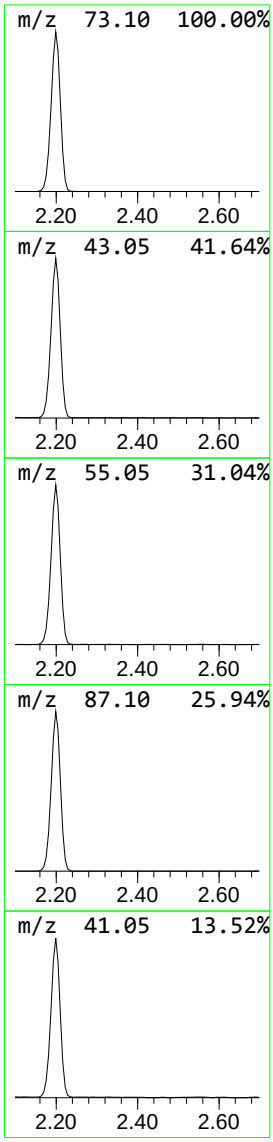
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.199	54.46 ng	2020420	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





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

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

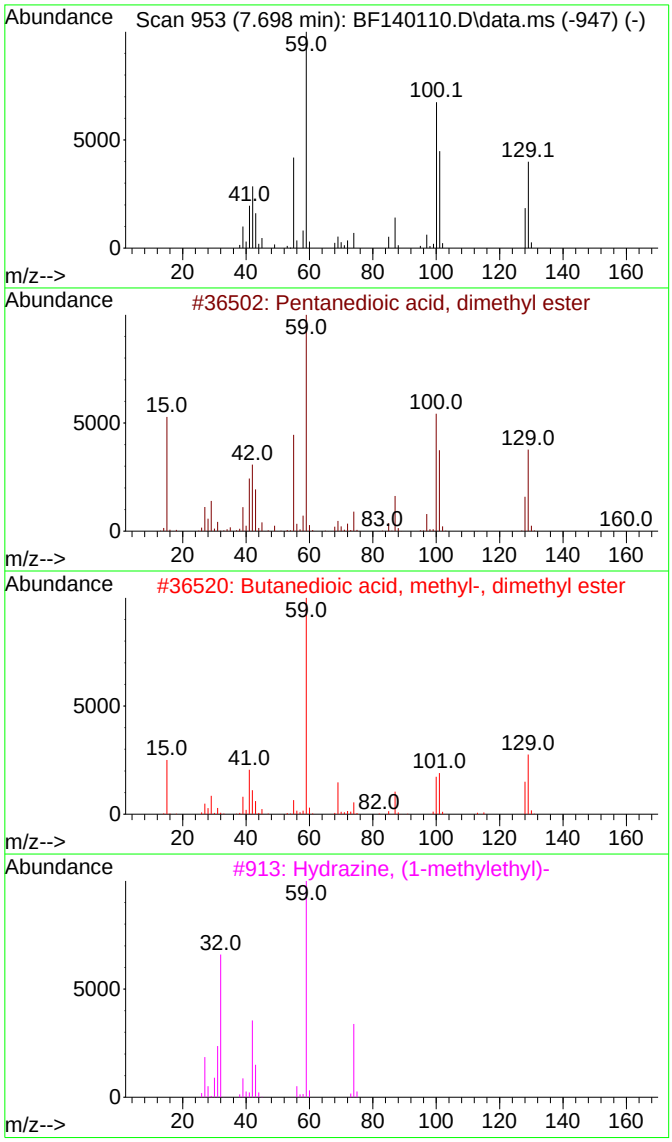
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

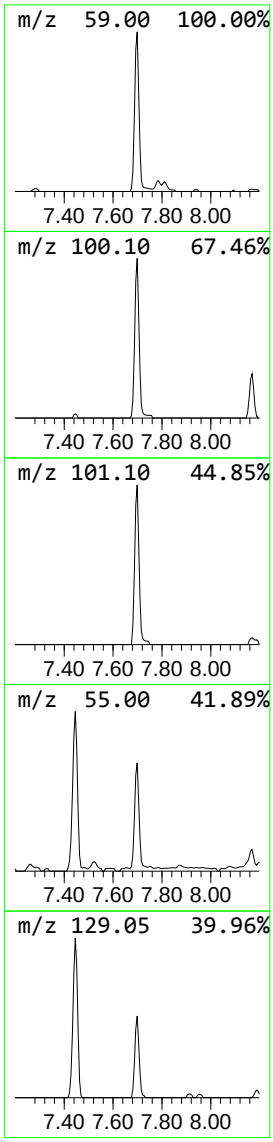
****

Peak Number 2 Pentanedioic acid, dimethyl... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.698	2.05 ng	104509	Naphthalene-d8	8.169

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanedioic acid, dimethyl ester	160	C7H12O4	001119-40-0	83
2	Butanedioic acid, methyl-, dimet...	160	C7H12O4	001604-11-1	53
3	Hydrazine, (1-methylethyl)-	74	C3H10N2	002257-52-5	30
4	Hydrazine, trimethyl-	74	C3H10N2	001741-01-1	27
5	Hydrazine, 1,1-bis(1-methylethyl)-	116	C6H16N2	000921-14-2	25





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

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

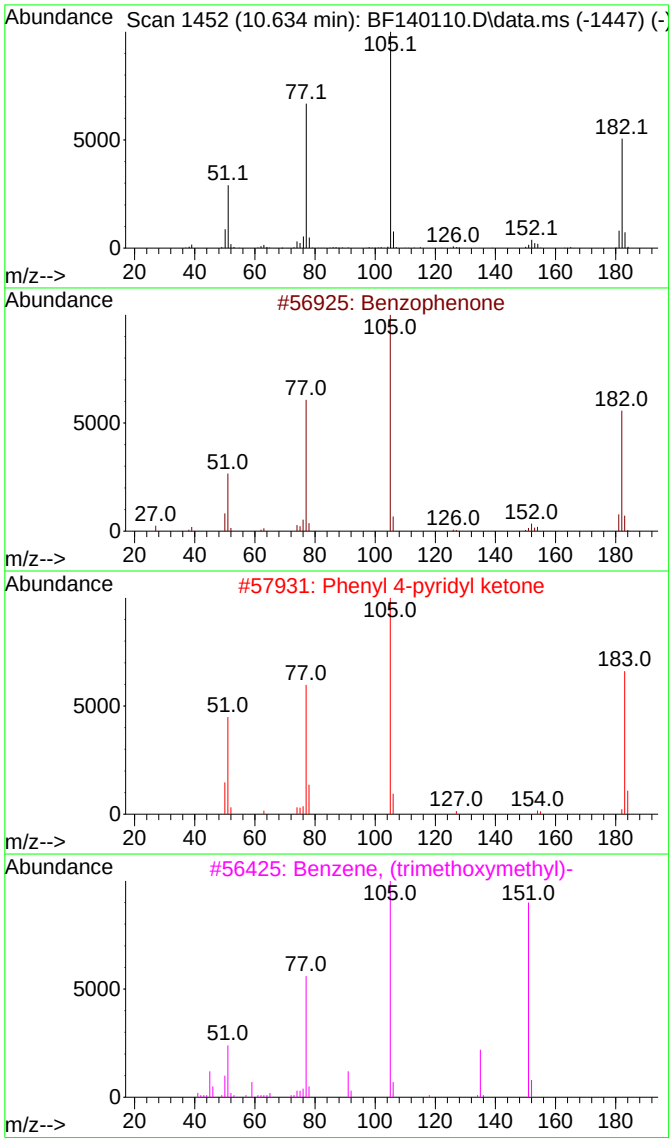
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

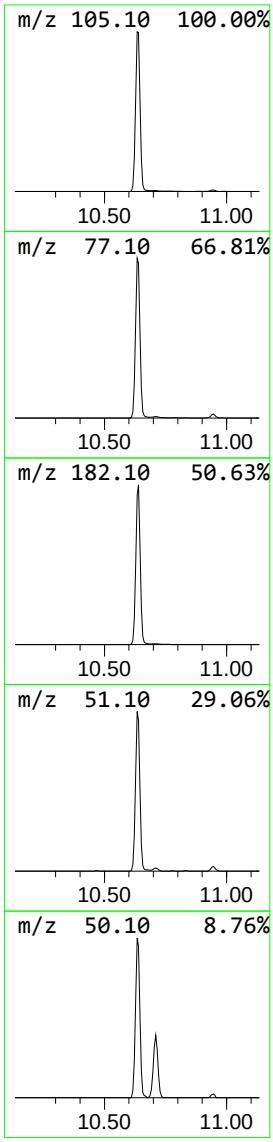
****

Peak Number 3 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.634	13.37 ng	749452	Acenaphthene-d10	9.922

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Benzophenone	182	C13H10O	000119-61-9	96
2	Phenyl 4-pyridyl ketone	183	C12H9NO	014548-46-0	50
3	Benzene, (trimethoxymethyl)-	182	C10H14O3	000707-07-3	47
4	N-Methylbenzamide, N-trifluoroac...	231	C10H8F3NO2	1000446-91-5	47
5	Benzoic acid, pentafluorophenyl ...	288	C13H5F5O2	1000360-67-9	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

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

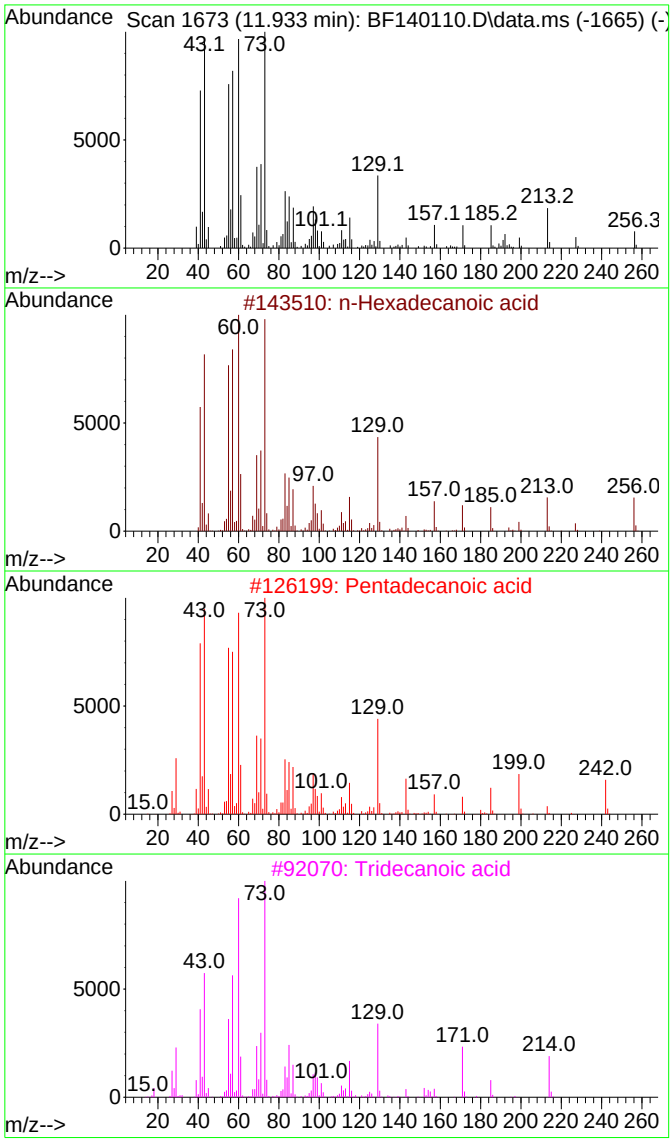
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

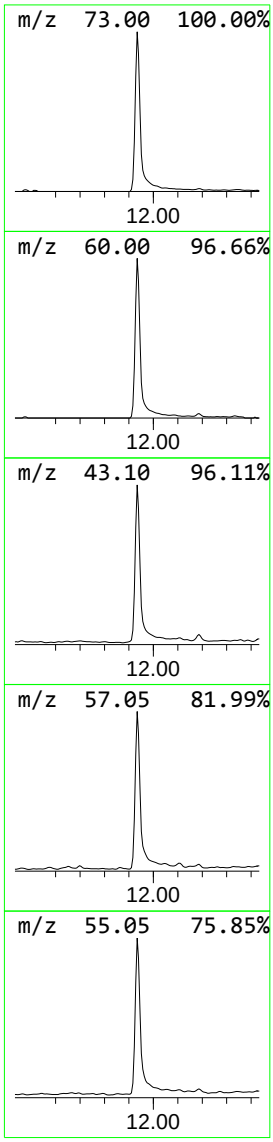
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.934	8.27 ng	472834	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	90
3	Tridecanoic acid	214	C13H26O2	000638-53-9	87
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	80
5	8-Methylnonanoic acid	172	C10H20O2	005963-14-4	58





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

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

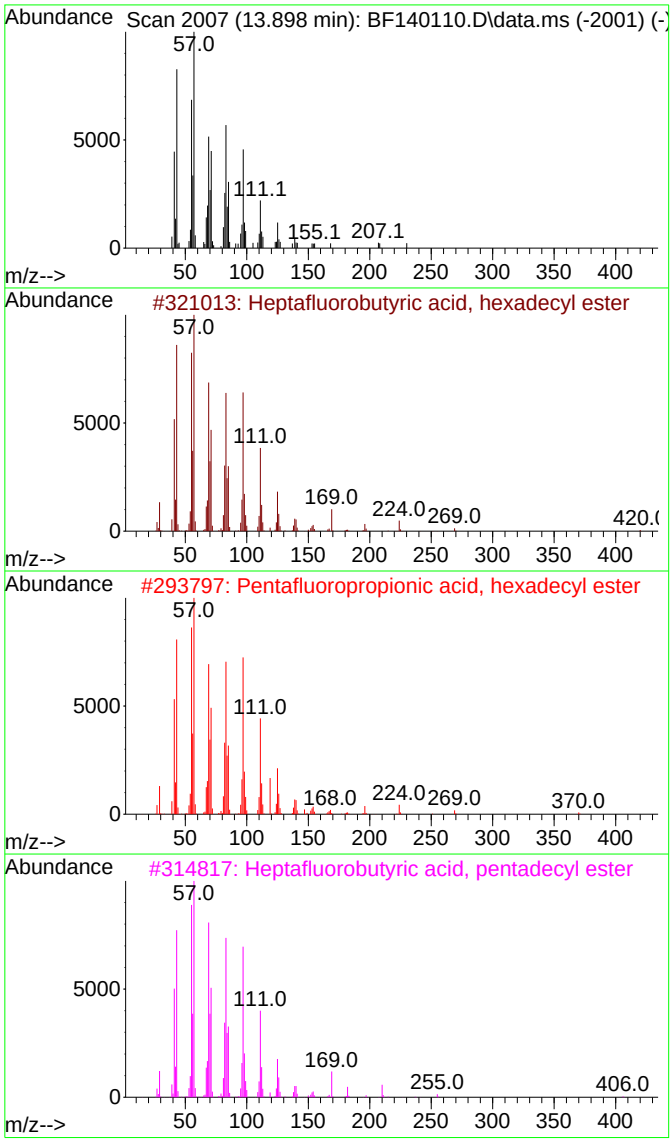
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

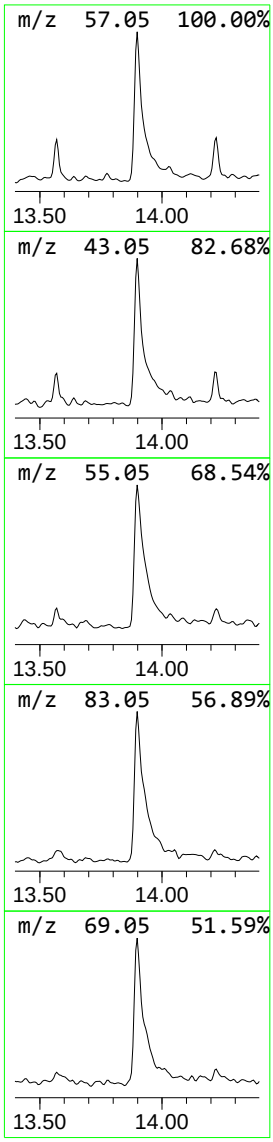
****

Peak Number 5 Heptafluorobutyric acid, he... Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.898	5.94 ng	189551	Chrysene-d12	14.057

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptafluorobutyric acid, hexadec...	438	C20H33F7O2	006385-15-5	91
2	Pentafluoropropionic acid, hexad...	388	C19H33F5O2	006222-07-7	91
3	Heptafluorobutyric acid, pentade...	424	C19H31F7O2	959261-23-5	91
4	Trifluoroacetoxy hexadecane	338	C18H33F3O2	006222-03-3	91
5	Heneicosyl heptafluorobutyrate	508	C25H43F7O2	1000351-83-8	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140110.D
Acq On : 29 Oct 2024 14:16
Operator : RC/JU
Sample : P4578-05
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT

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...	2.199	54.5	ng	2020420	1	6.887	741977	20.0
Pentanedioic ac...	7.698	2.0	ng	104509	2	8.169	1017600	20.0
Benzophenone	10.634	13.4	ng	749452	3	9.922	1120840	20.0
n-Hexadecanoic ...	11.934	8.3	ng	472834	4	11.410	1143970	20.0
Heptafluorobuty...	13.898	5.9	ng	189551	5	14.057	638333	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Quant Time: Oct 29 15:12:08 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

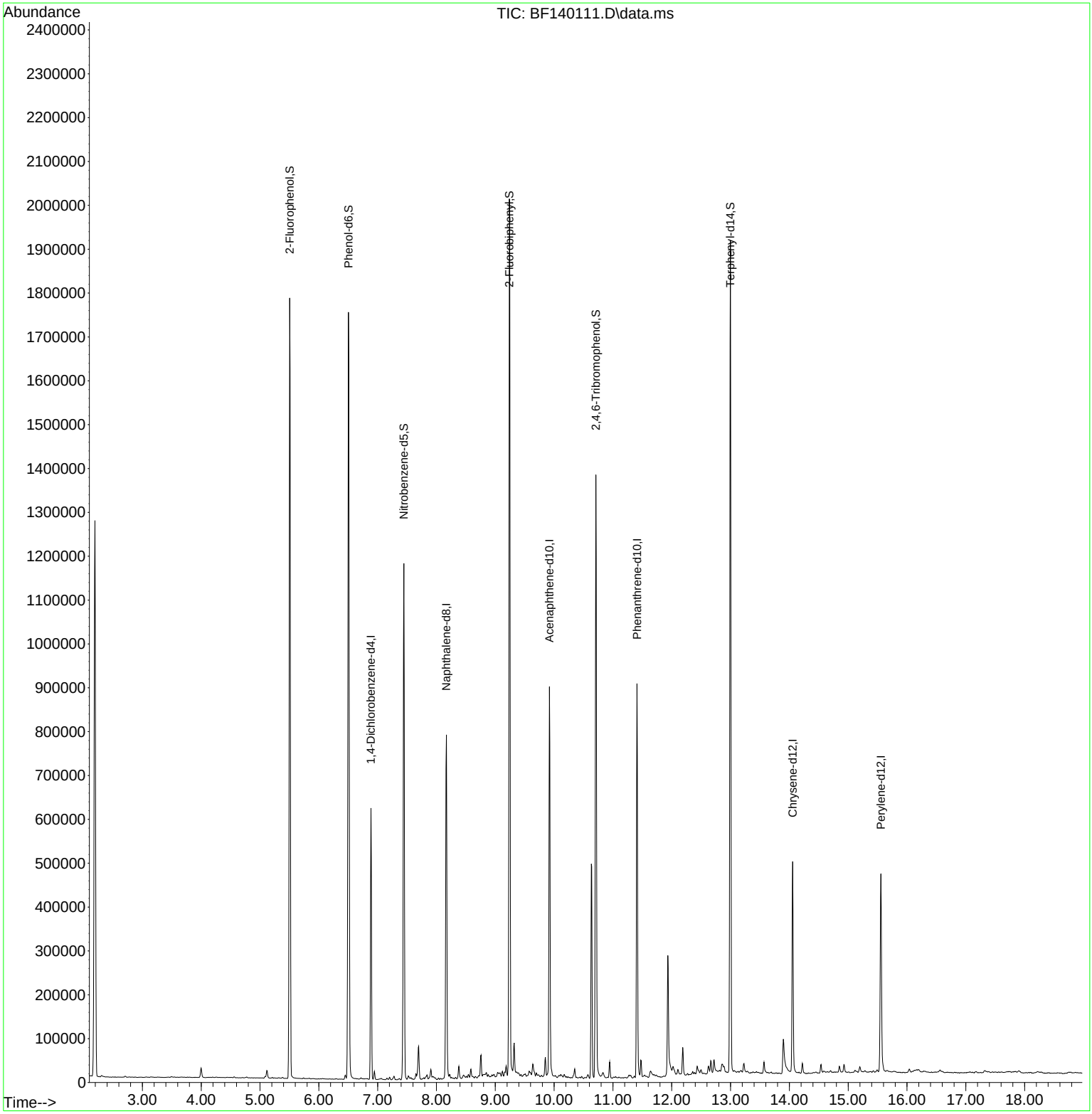
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	122139	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	478188	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	267029	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	461723	20.000	ng	0.00
76) Chrysene-d12	14.057	240	225154	20.000	ng	0.00
86) Perylene-d12	15.557	264	268509	20.000	ng	0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	647003	82.928	ng	0.00
7) Phenol-d6	6.504	99	834485	82.583	ng	0.00
23) Nitrobenzene-d5	7.445	82	517971	60.035	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	234385	93.840	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	938225	58.069	ng	-0.01
79) Terphenyl-d14	12.998	244	938369	67.911	ng	0.00
Target Compounds						Qvalue

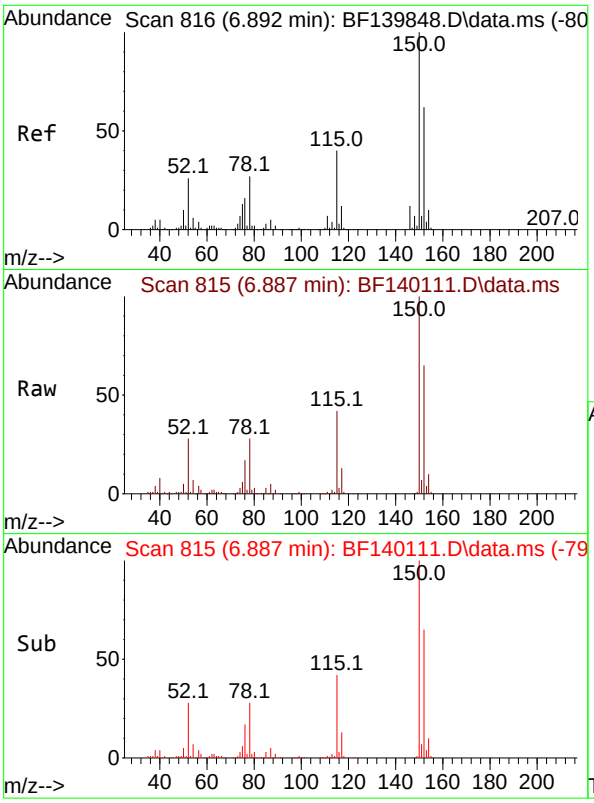
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Quant Time: Oct 29 15:12:08 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



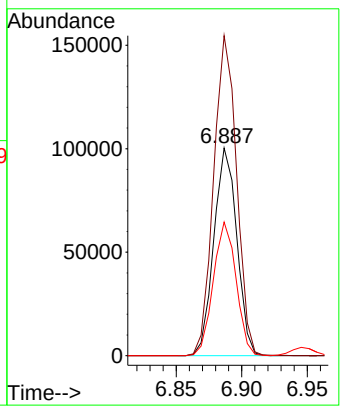


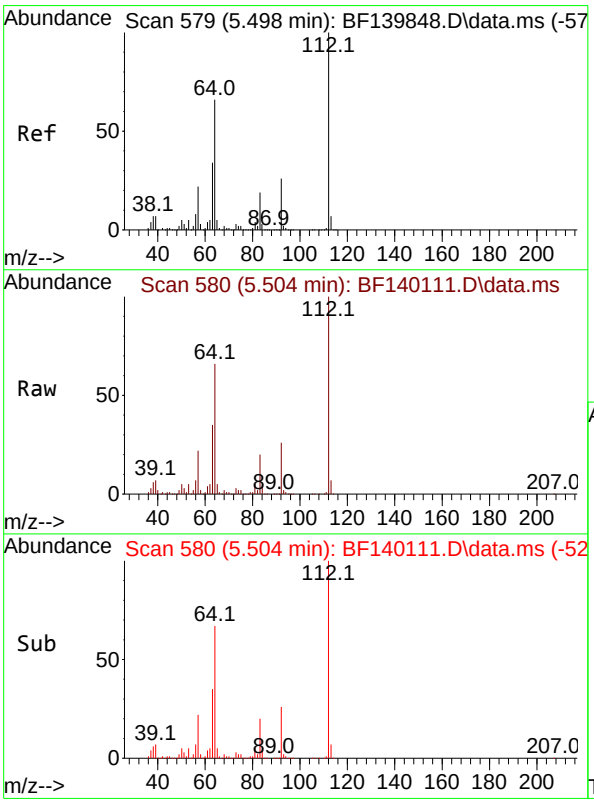
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 81
Delta R.T. -0.005 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion:152 Resp: 122139

Ion	Ratio	Lower	Upper
152	100		
150	154.1	130.2	195.2
115	64.4	51.4	77.2

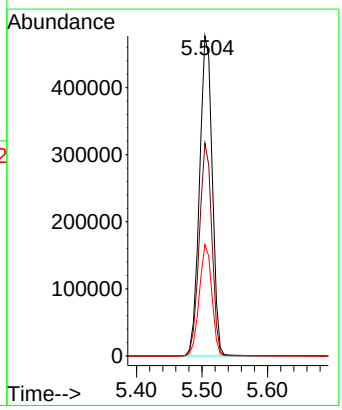


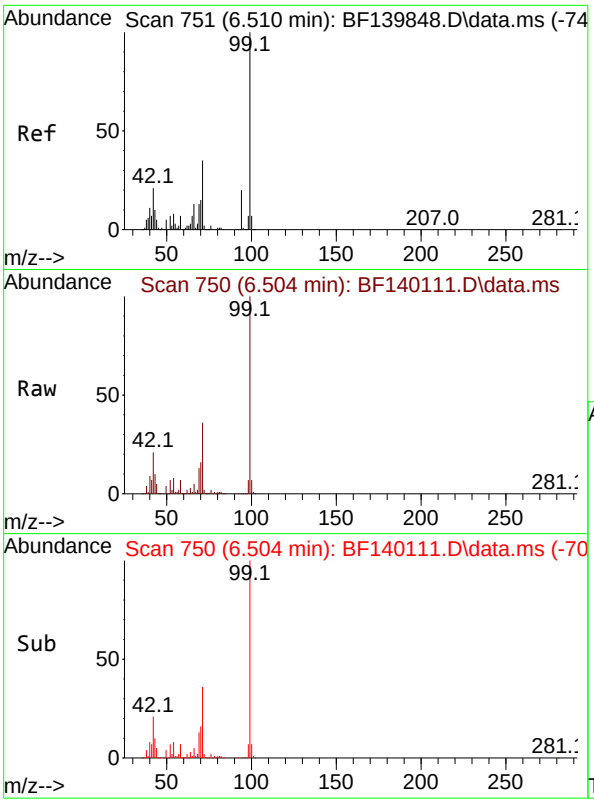


#5
2-Fluorophenol
Concen: 82.928 ng
RT: 5.504 min Scan# 580
Delta R.T. 0.006 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Tgt Ion:112 Resp: 647003

Ion	Ratio	Lower	Upper
112	100		
64	66.5	53.0	79.6
63	34.8	27.0	40.4



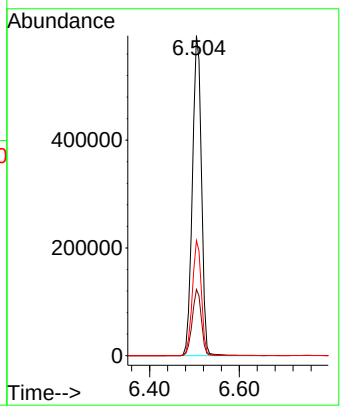


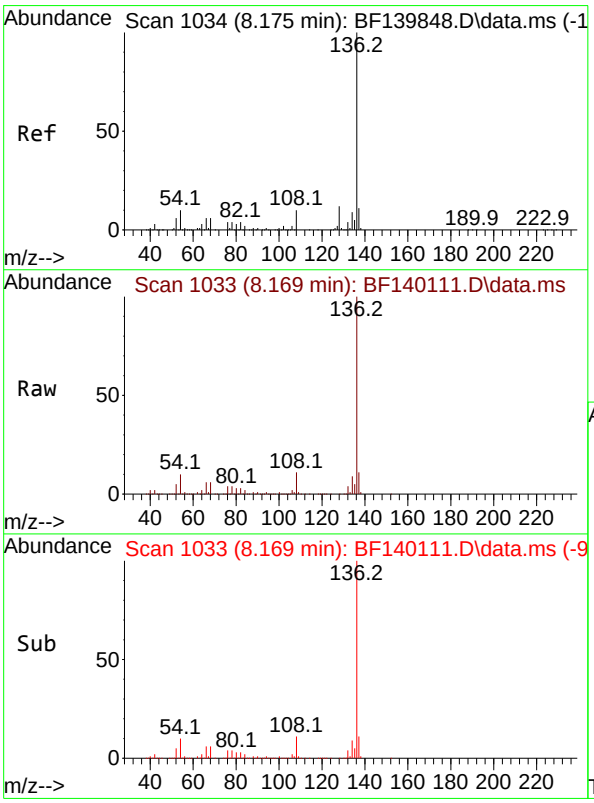
#7
Phenol-d6
Concen: 82.583 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion: 99 Resp: 834485

Ion	Ratio	Lower	Upper
99	100		
42	20.7	16.7	25.1
71	36.0	27.7	41.5

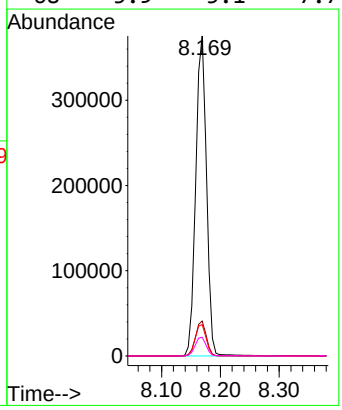


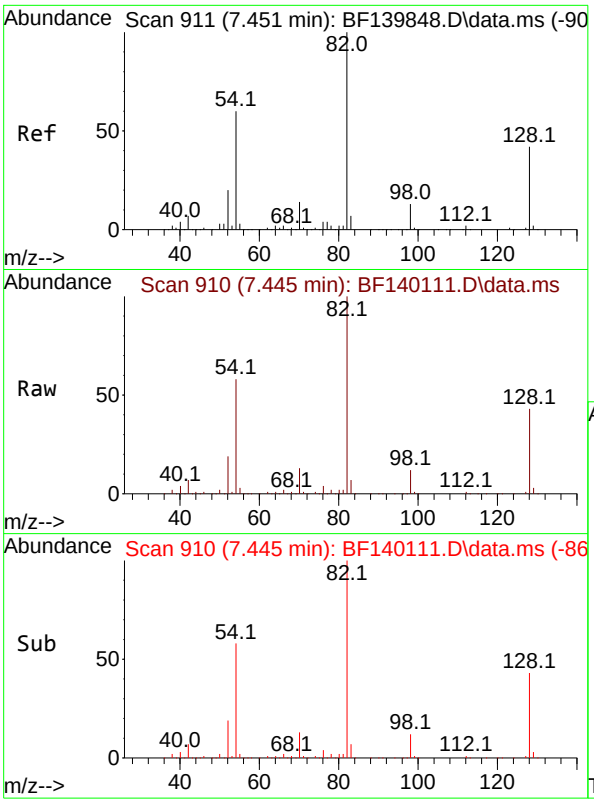


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Tgt Ion:136 Resp: 478188

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	9.8	8.4	12.6
68	5.9	5.1	7.7



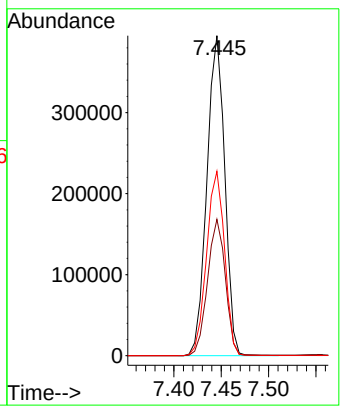


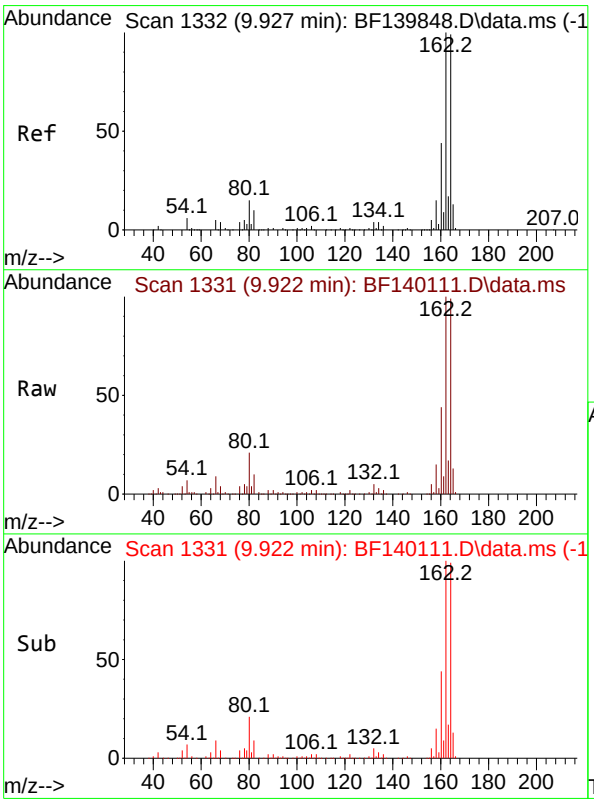
#23
Nitrobenzene-d5
Concen: 60.035 ng
RT: 7.445 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion: 82 Resp: 517971

Ion	Ratio	Lower	Upper
82	100		
128	42.6	33.4	50.0
54	57.6	47.8	71.8

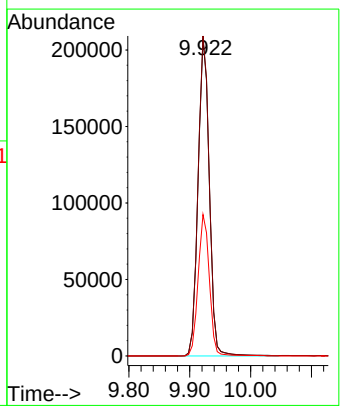


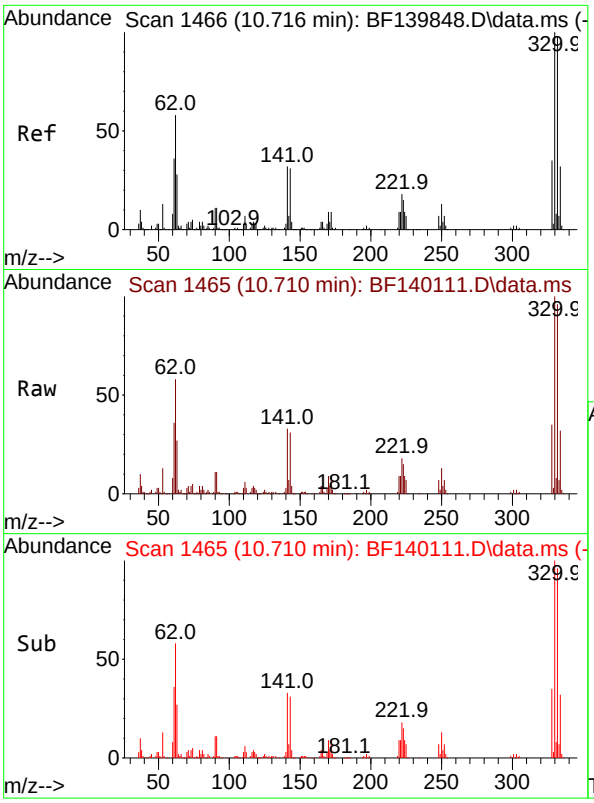


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Tgt Ion:164 Resp: 267029

Ion	Ratio	Lower	Upper
164	100		
162	100.8	81.0	121.4
160	44.6	35.4	53.0



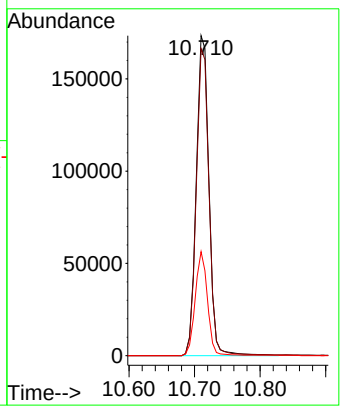


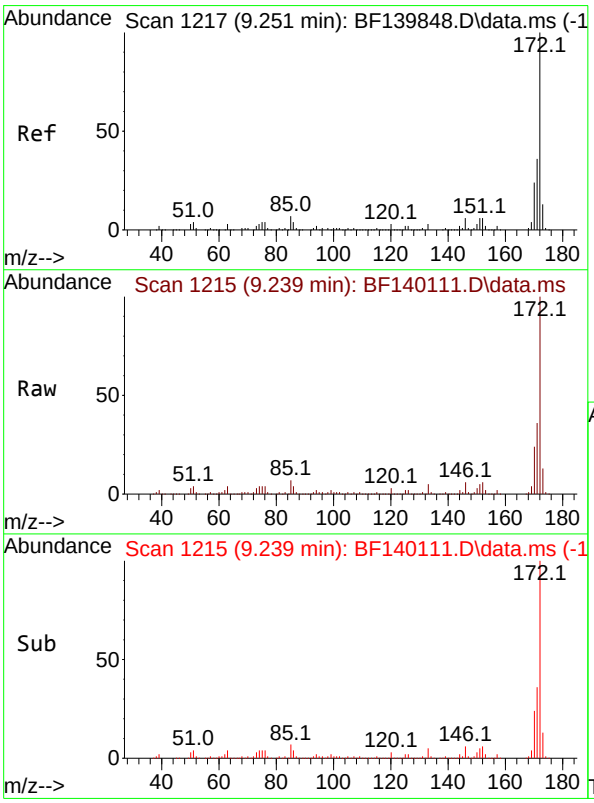
#42
2,4,6-Tribromophenol
Concen: 93.840 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion:330 Resp: 234385

Ion	Ratio	Lower	Upper
330	100		
332	96.2	78.1	117.1
141	31.5	26.6	39.8

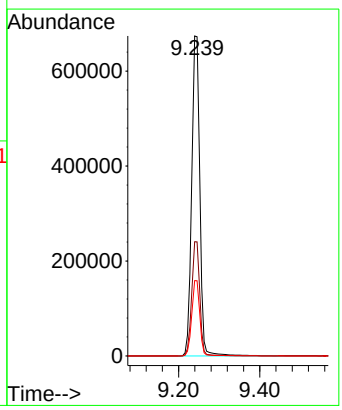


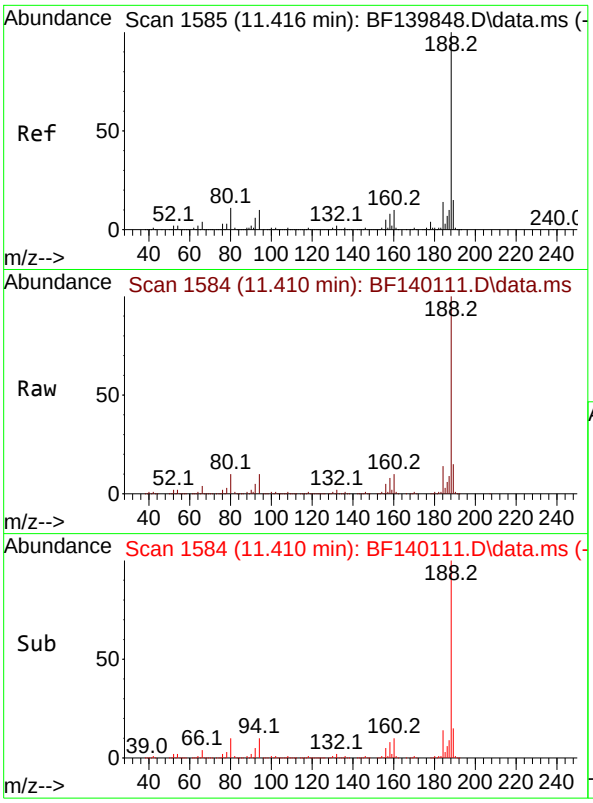


#45
2-Fluorobiphenyl
Concen: 58.069 ng
RT: 9.239 min Scan# 1215
Delta R.T. -0.012 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Tgt Ion:172 Resp: 938225

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.6	43.0
170	23.6	19.1	28.7



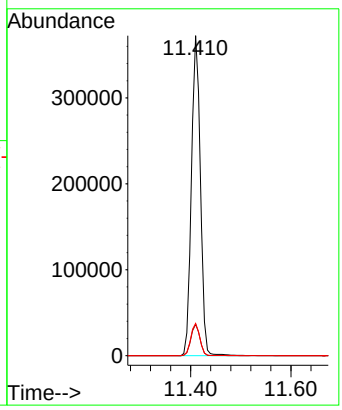


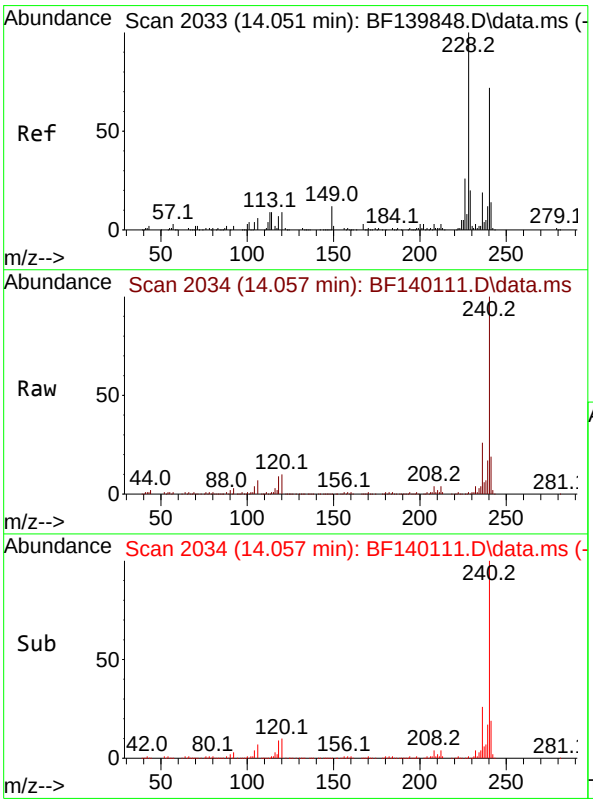
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion:188 Resp: 461723

Ion	Ratio	Lower	Upper
188	100		
94	9.8	7.9	11.9
80	10.1	9.0	13.4

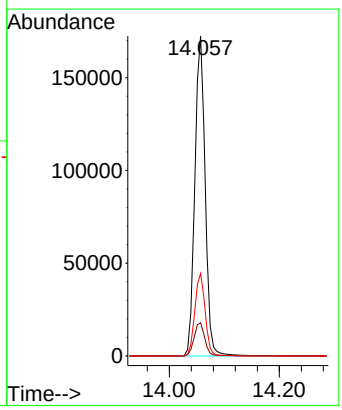


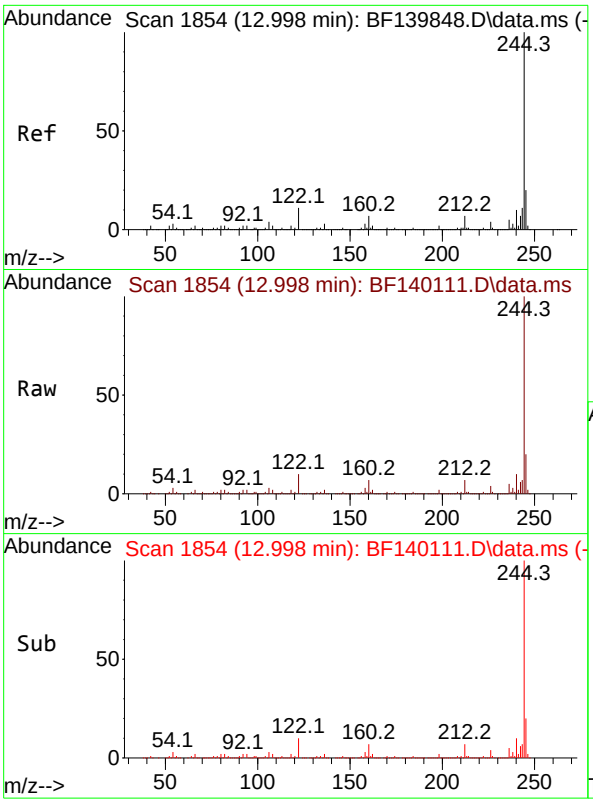


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2034
Delta R.T. 0.006 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Tgt Ion:240 Resp: 225154

Ion	Ratio	Lower	Upper
240	100		
120	10.4	9.4	14.2
236	25.8	20.9	31.3



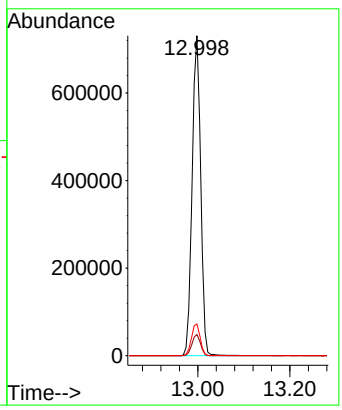


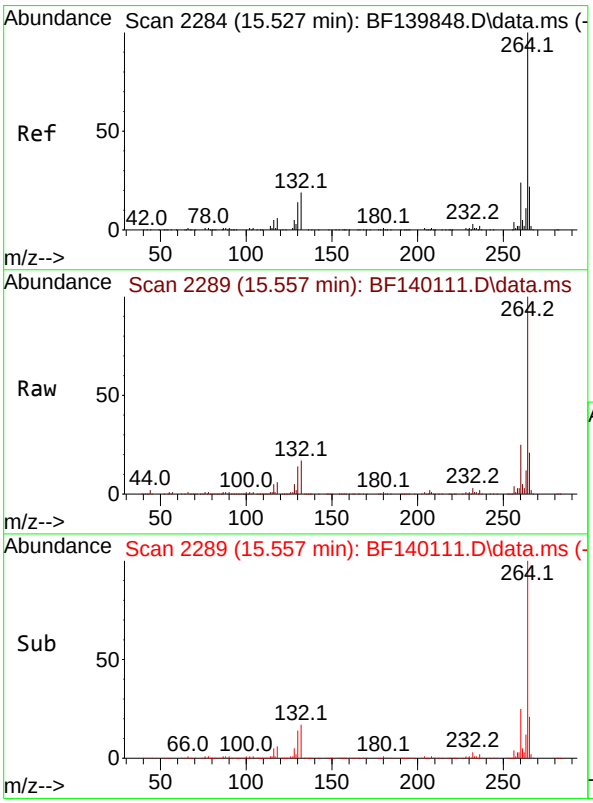
#79
Terphenyl-d14
Concen: 67.911 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

Tgt Ion:244 Resp: 938369

Ion	Ratio	Lower	Upper
244	100		
212	6.6	5.7	8.5
122	9.9	8.6	13.0

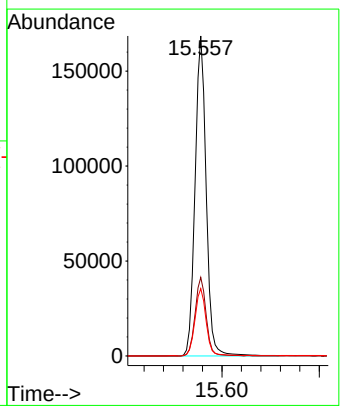




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2289
Delta R.T. 0.030 min
Lab File: BF140111.D
Acq: 29 Oct 2024 14:42

Tgt Ion:264 Resp: 268509

Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.4	29.2
265	21.1	17.4	26.0



Sample Results: **BF140111.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

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: BF140111.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.193	9	17	24	rVB	1266994	2007518	74.34%	8.638%
2	3.999	318	324	336	rVB	21469	35342	1.31%	0.152%
3	5.116	510	514	523	rVB	17523	27735	1.03%	0.119%
4	5.504	574	580	586	rBV	1779539	2384772	88.31%	10.261%
5	6.504	744	750	768	rVB	1747782	2501850	92.64%	10.765%
6	6.887	810	815	820	rBV	618303	750575	27.79%	3.229%
7	7.445	902	910	919	rBV	1177559	1572985	58.25%	6.768%
8	7.698	947	953	960	rVB2	75341	114812	4.25%	0.494%
9	7.904	980	988	992	rBV2	21628	34582	1.28%	0.149%
10	8.169	1025	1033	1040	rBV	783185	1032254	38.22%	4.441%
11	8.381	1063	1069	1076	rBV	28092	40961	1.52%	0.176%
12	8.757	1128	1133	1137	rVB	47651	57250	2.12%	0.246%
13	9.239	1210	1215	1224	rBV	1998750	2700474	100.00%	11.619%
14	9.322	1224	1229	1234	rVB	67396	90403	3.35%	0.389%
15	9.639	1279	1283	1290	rVB3	26856	49288	1.83%	0.212%
16	9.851	1312	1319	1323	rBV	44304	59039	2.19%	0.254%
17	9.922	1326	1331	1343	rVB	887799	1144822	42.39%	4.926%
18	10.351	1396	1404	1408	rBV2	20249	30758	1.14%	0.132%
19	10.633	1447	1452	1459	rBV	488870	640623	23.72%	2.756%
20	10.710	1459	1465	1479	rVV	1375616	1827006	67.66%	7.861%
21	10.945	1501	1505	1512	rVB	37178	47221	1.75%	0.203%
22	11.410	1579	1584	1592	rBV	898380	1137268	42.11%	4.893%
23	11.475	1592	1595	1600	rVB2	37803	49234	1.82%	0.212%
24	11.639	1617	1623	1631	rBV8	14214	41207	1.53%	0.177%
25	11.933	1666	1673	1685	rBV	275405	452288	16.75%	1.946%
26	12.022	1685	1688	1697	rVB2	17953	40666	1.51%	0.175%
27	12.186	1712	1716	1724	rVB3	63064	81770	3.03%	0.352%
28	12.433	1754	1758	1765	rBV3	16929	32600	1.21%	0.140%
29	12.663	1794	1797	1802	rVB	27428	35969	1.33%	0.155%
30	12.722	1802	1807	1813	rBV2	28864	48440	1.79%	0.208%
31	12.857	1826	1830	1834	rBV2	16240	34169	1.27%	0.147%
32	12.998	1848	1854	1859	rBV	1895286	2439680	90.34%	10.497%
33	13.227	1889	1893	1900	rBV2	19363	27811	1.03%	0.120%
34	13.569	1947	1951	1960	rBV	25218	39911	1.48%	0.172%
35	13.898	2002	2007	2026	rBV	78496	201410	7.46%	0.867%
36	14.057	2028	2034	2046	rVB	481682	648129	24.00%	2.789%

Sample Results: **BF140111.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

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	14.221	2058	2062	2067	rBV	22027	28968	1.07%	0.125%
38	14.539	2112	2116	2121	rBV	19358	27398	1.01%	0.118%
39	15.557	2282	2289	2302	rBV	451534	724396	26.82%	3.117%

Sum of corrected areas: 23241584

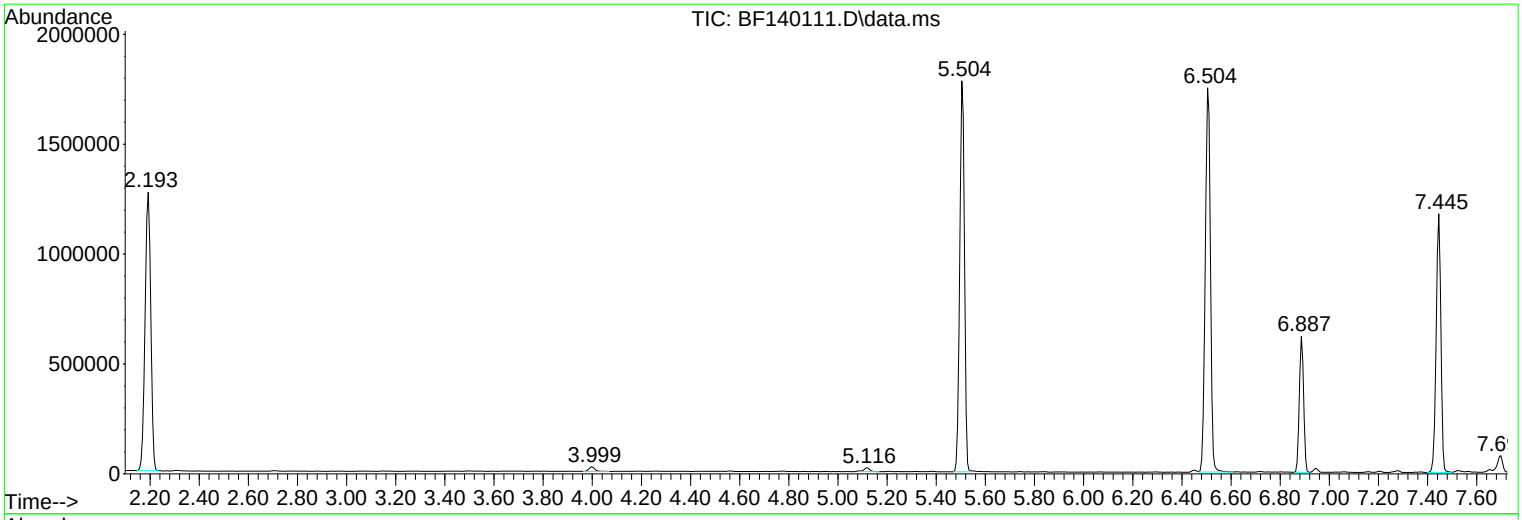
Sample Results: **BF140111.D**

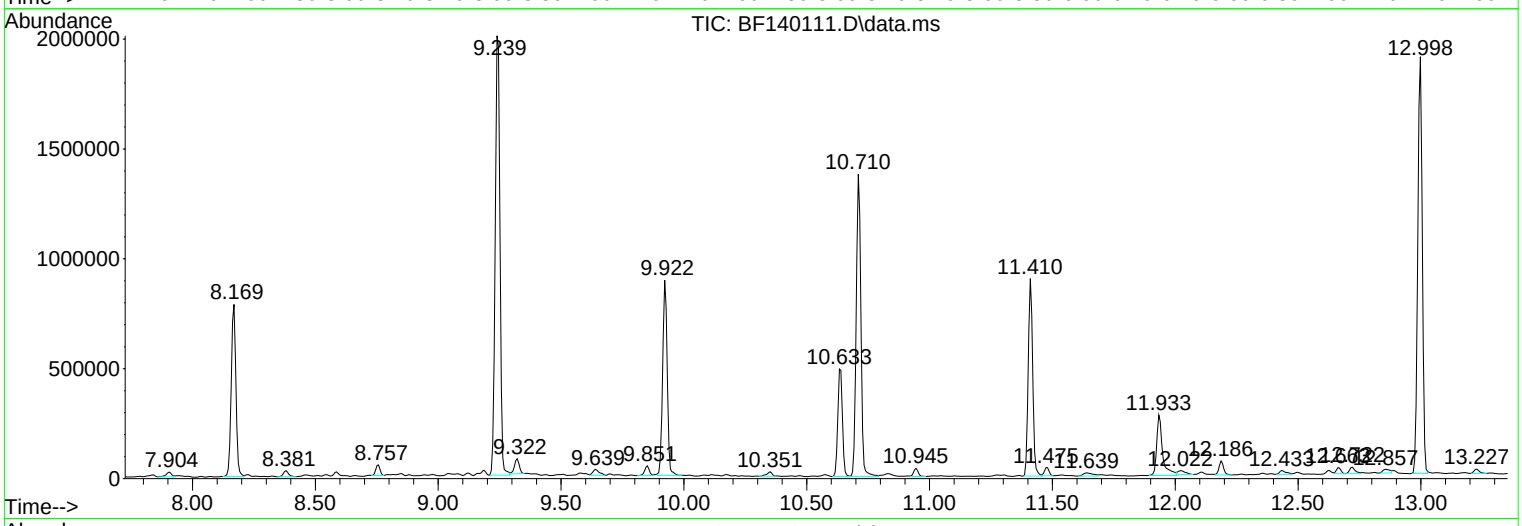
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

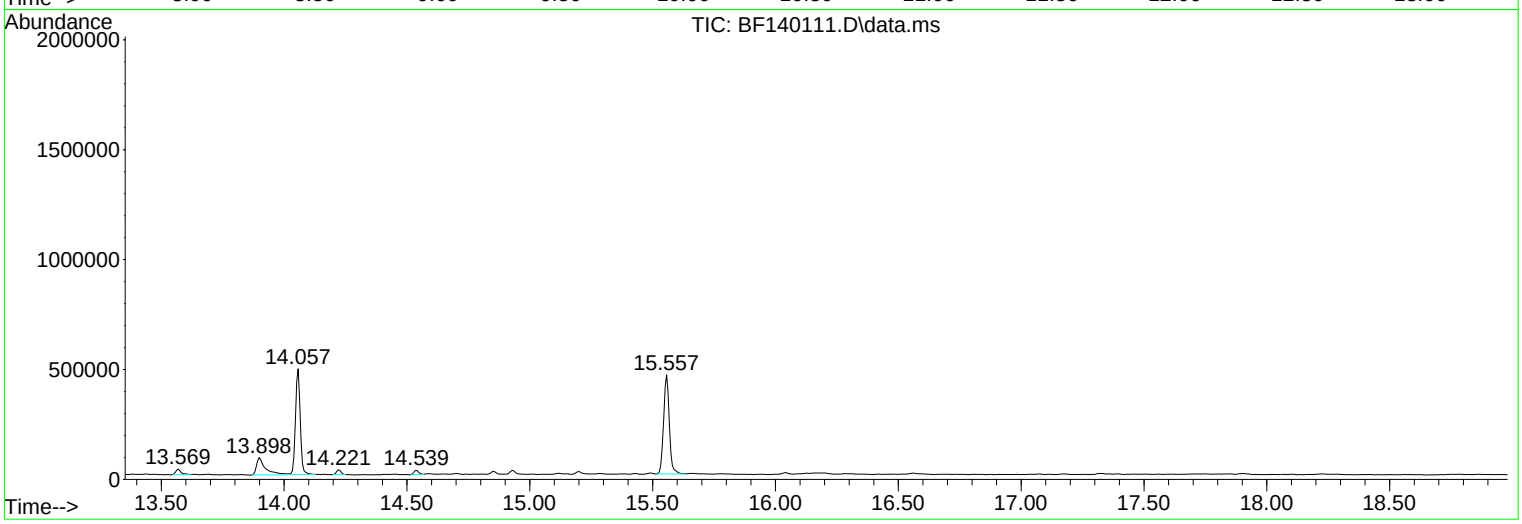
Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

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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Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

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

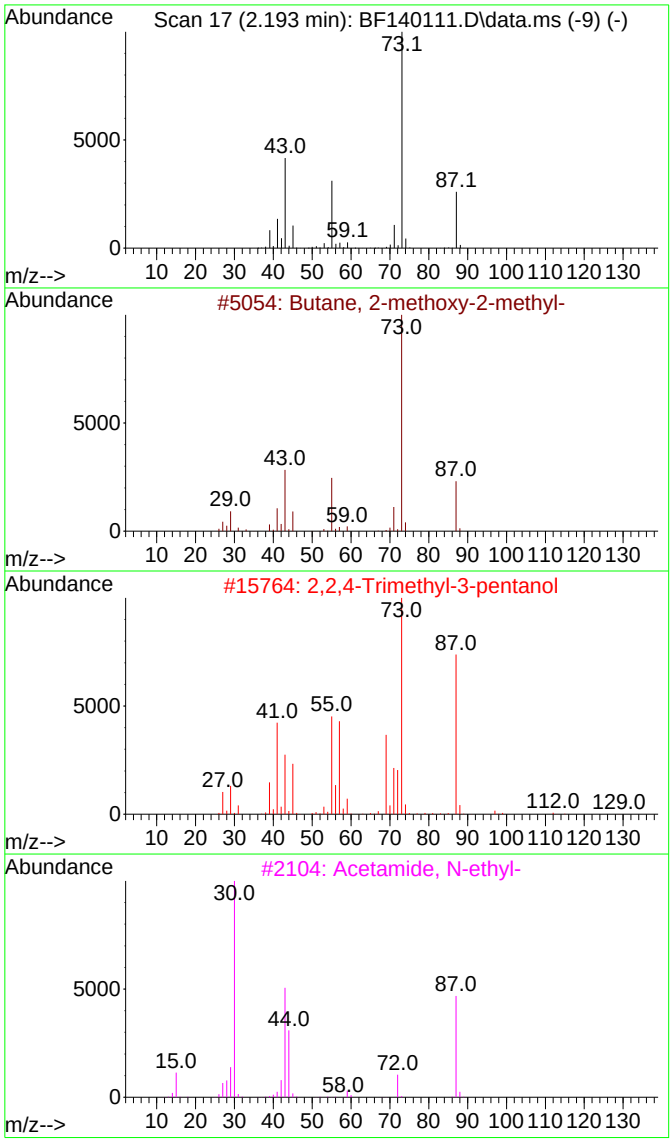
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

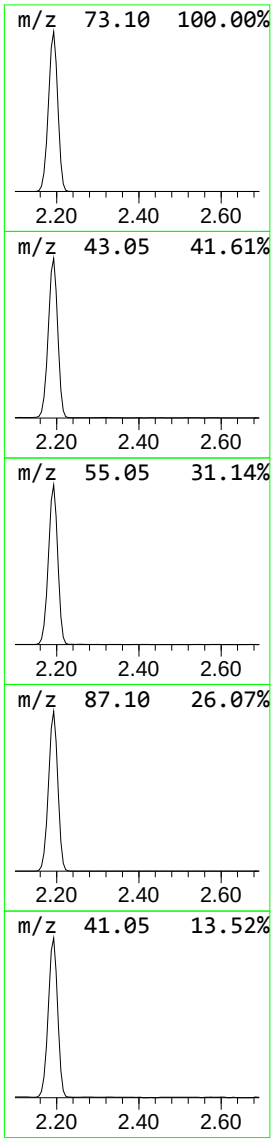
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.193	53.49 ng	2007520	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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Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

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

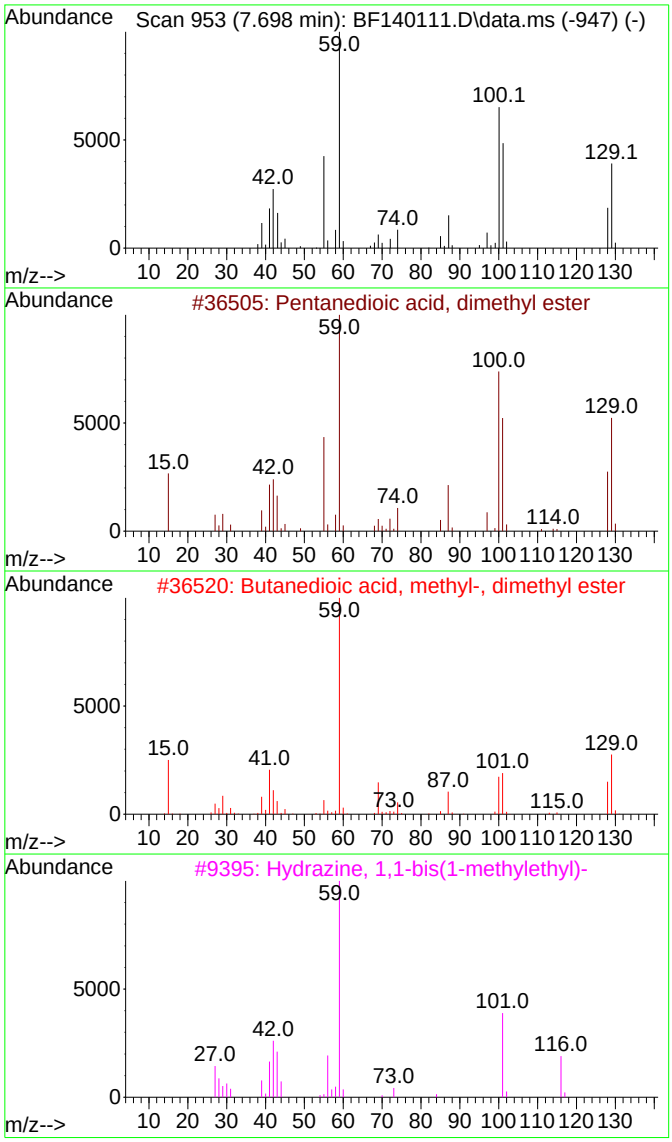
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

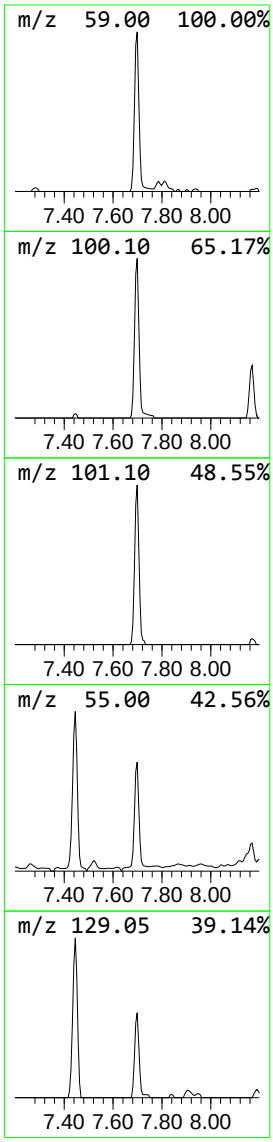
****

Peak Number 2 Pentanedioic acid, dimethyl... Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.698	2.22 ng	114812	Naphthalene-d8	8.169

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentanedioic acid, dimethyl ester	160	C7H12O4	001119-40-0	91
2	Butanedioic acid, methyl-, dimet...	160	C7H12O4	001604-11-1	42
3	Hydrazine, 1,1-bis(1-methylethyl)-	116	C6H16N2	000921-14-2	37
4	Hydrazine, (1-methylethyl)-	74	C3H10N2	002257-52-5	27
5	Hydrazine, trimethyl-	74	C3H10N2	001741-01-1	27





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

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

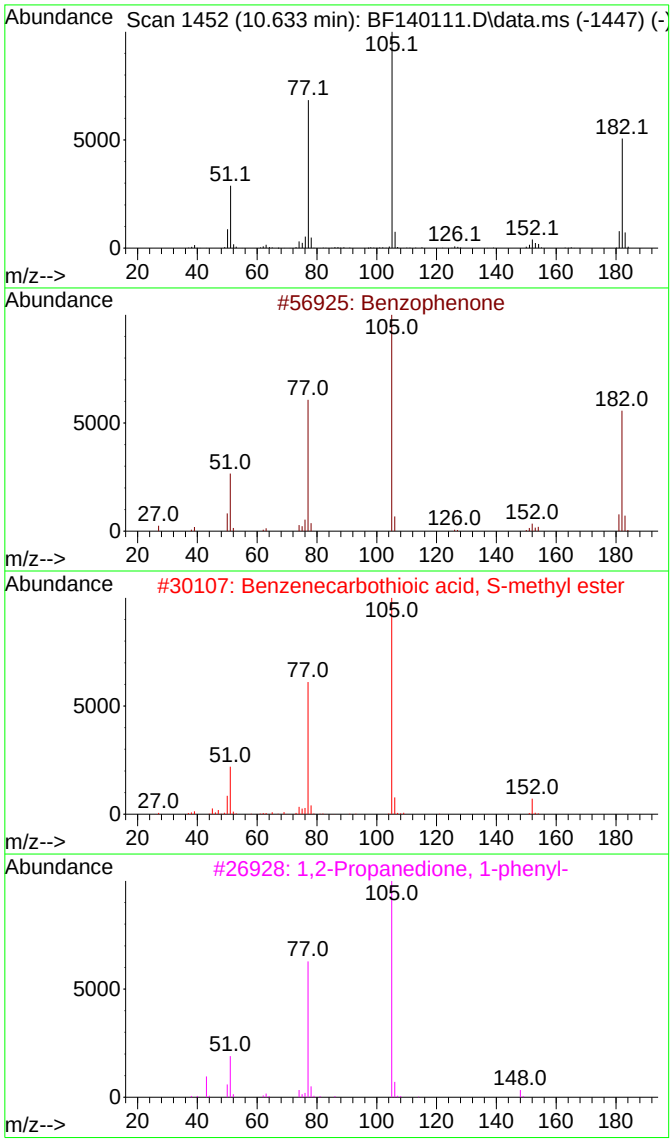
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

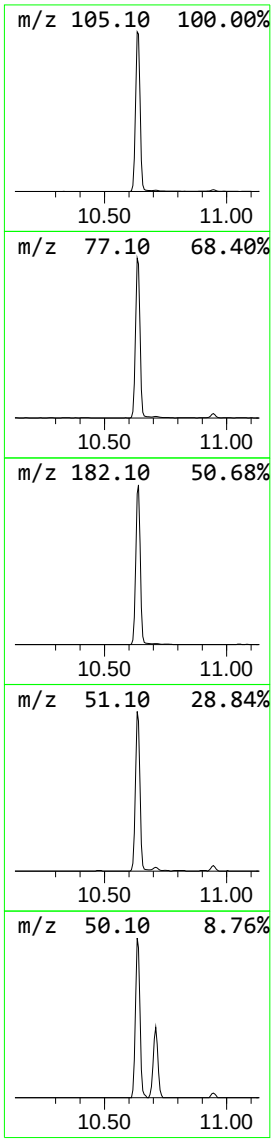
****

Peak Number 3 Benzophenone Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.633	11.19 ng	640623	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	1,2-Propanedione, 1-phenyl-	148	C9H8O2	000579-07-7	47
4	2-(2-Oxo-2-phenyl-ethyl)-malonon...	184	C11H8N2O	1000296-76-9	47
5	Benzenebutanoic acid, .gamma.-oxo-	178	C10H10O3	002051-95-8	47





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

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

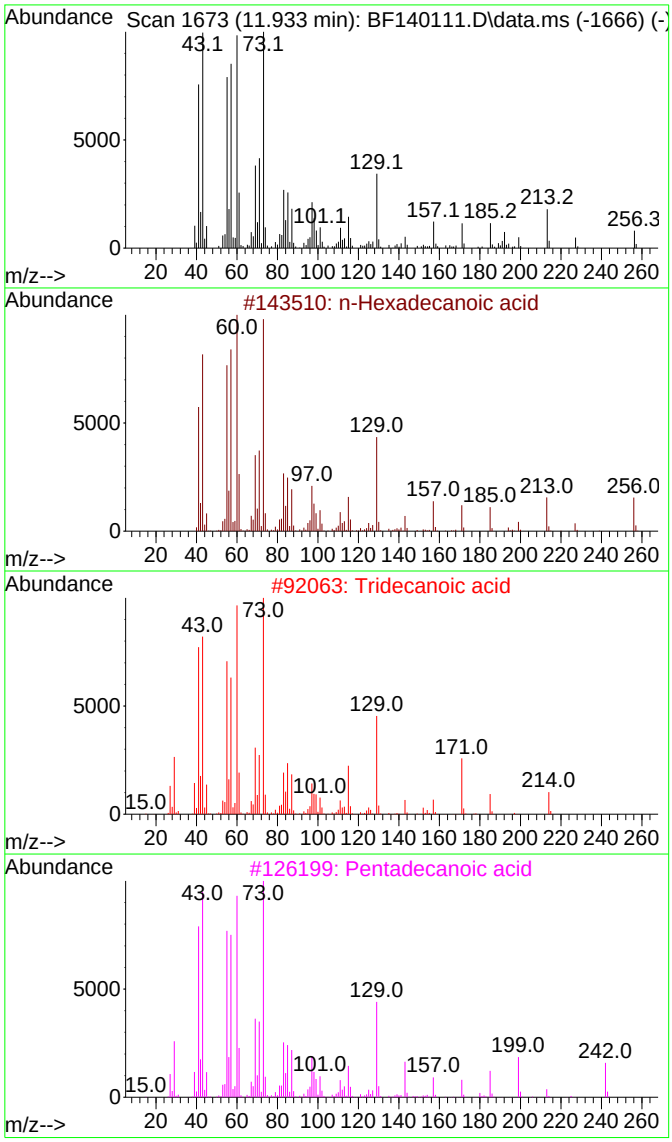
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

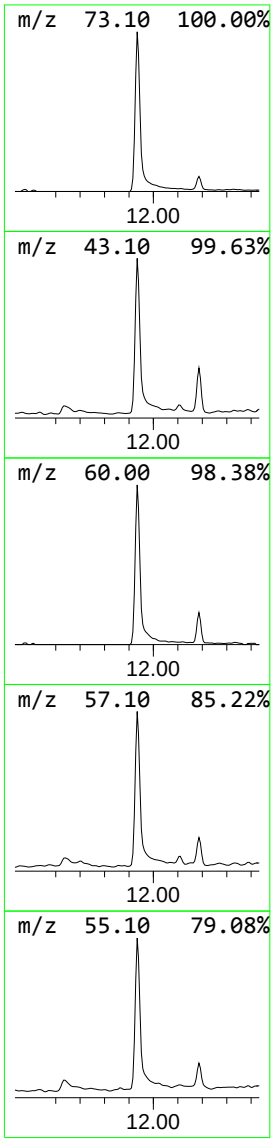
****

Peak Number 4 n-Hexadecanoic acid Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.933	7.95 ng	452288	Phenanthrene-d10	11.410

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	98
2	Tridecanoic acid	214	C13H26O2	000638-53-9	94
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	87
4	Tetradecanoic acid	228	C14H28O2	000544-63-8	74
5	Undecanoic acid	186	C11H22O2	000112-37-8	74





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Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

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

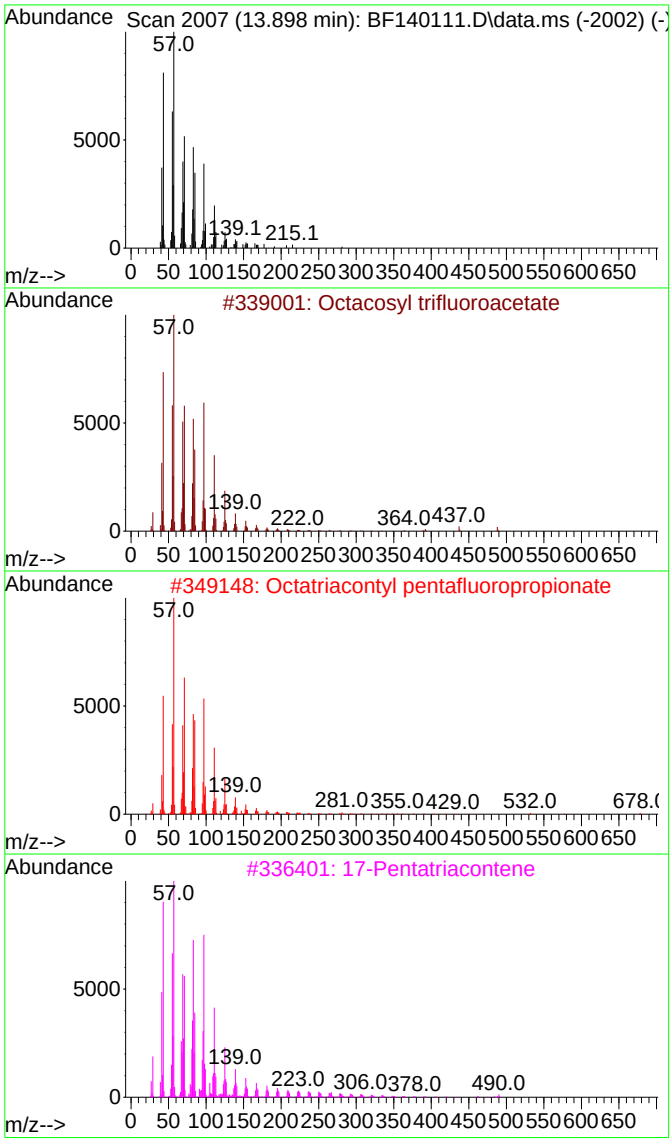
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

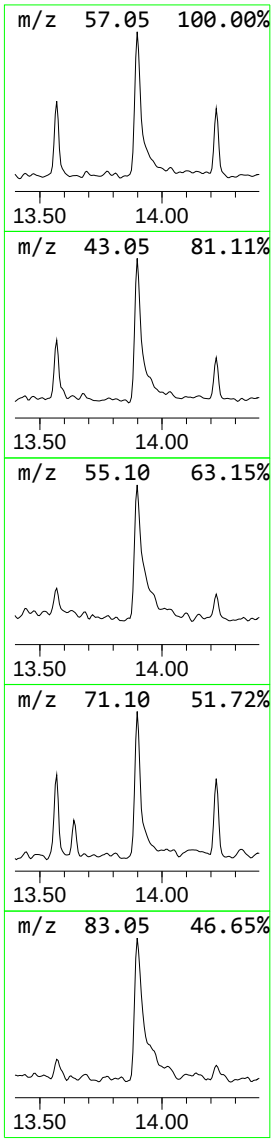
****

Peak Number 5 Octacosyl trifluoroacetate Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.898	6.22 ng	201410	Chrysene-d12	14.057

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosyl trifluoroacetate	506	C30H57F3O2	1000351-74-9	91
2	Octatriacontyl pentafluoropropio...	697	C41H77F5O2	1000351-89-1	91
3	17-Pentatriacontene	491	C35H70	006971-40-0	91
4	Triacontyl trifluoroacetate	534	C32H61F3O2	1000351-75-7	91
5	Tetratriacontyl heptafluorobutyrate	691	C38H69F7O2	1000351-84-1	91





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140111.D
Acq On : 29 Oct 2024 14:42
Operator : RC/JU
Sample : P4578-07
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
WB-305-BOT-1

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...	2.193	53.5	ng	2007520	1	6.887	750575	20.0
Pentanedioic ac...	7.698	2.2	ng	114812	2	8.169	1032250	20.0
Benzophenone	10.633	11.2	ng	640623	3	9.922	1144820	20.0
n-Hexadecanoic ...	11.933	8.0	ng	452288	4	11.410	1137270	20.0
Octacosyl trifl...	13.898	6.2	ng	201410	5	14.057	648129	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140101.D
Acq On : 29 Oct 2024 10:05
Operator : RC/JU
Sample : PB164461BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Quant Time: Oct 29 11:31:56 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

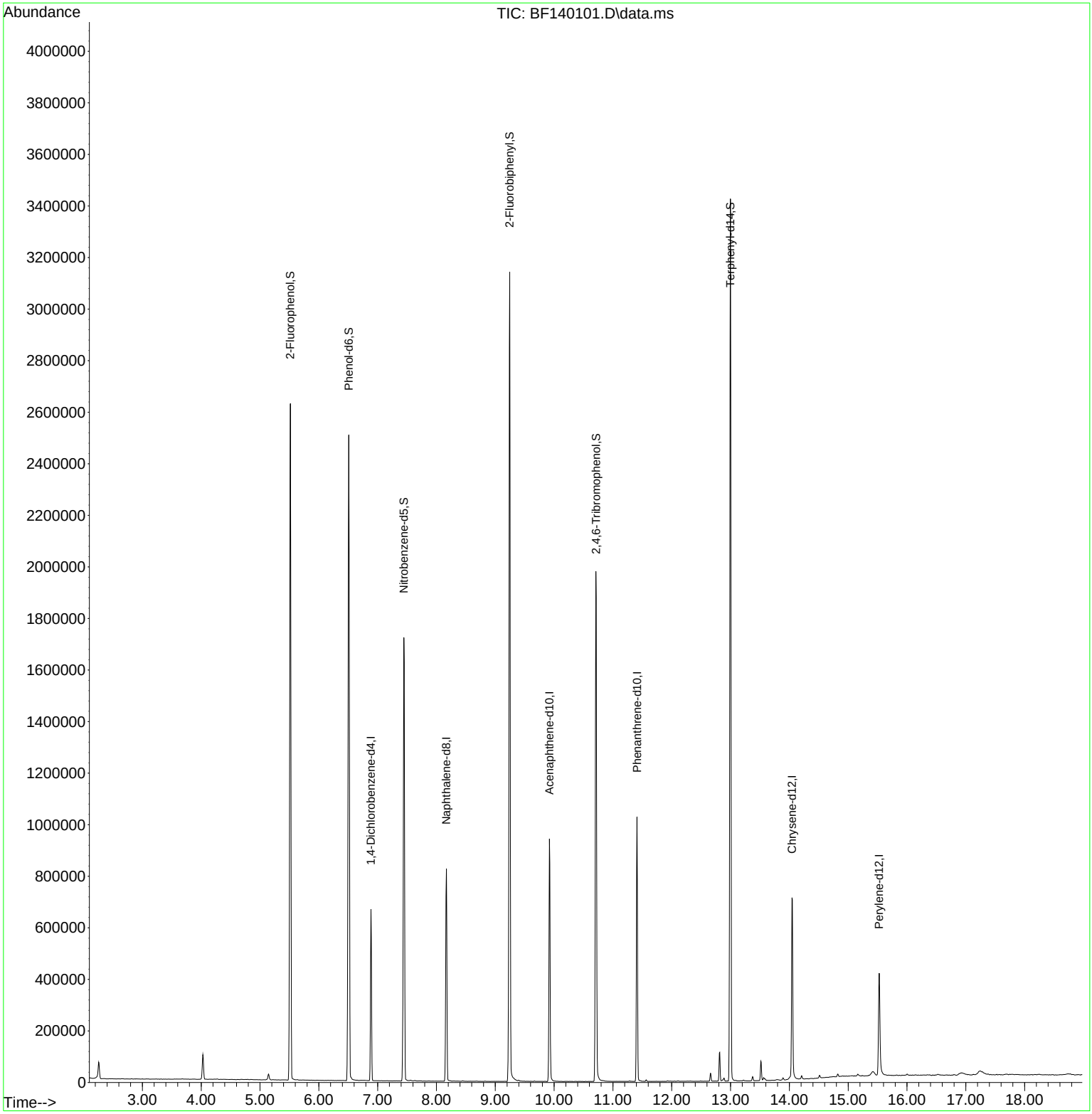
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	132334	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	522078	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	293840	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	532374	20.000	ng	0.00
76) Chrysene-d12	14.045	240	353787	20.000	ng	0.00
86) Perylene-d12	15.527	264	265432	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.516	112	1005416	118.939	ng	0.02
7) Phenol-d6	6.510	99	1269087	115.917	ng	0.00
23) Nitrobenzene-d5	7.445	82	844513	89.653	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	371294	135.090	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1529595	86.032	ng	0.00
79) Terphenyl-d14	12.998	244	1772789	81.652	ng	0.00
Target Compounds						Qvalue

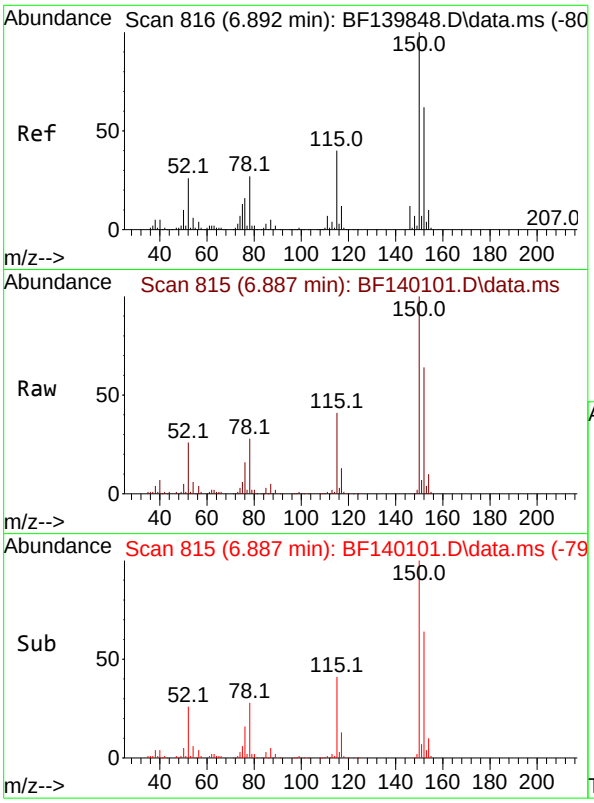
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140101.D
Acq On : 29 Oct 2024 10:05
Operator : RC/JU
Sample : PB164461BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Quant Time: Oct 29 11:31:56 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



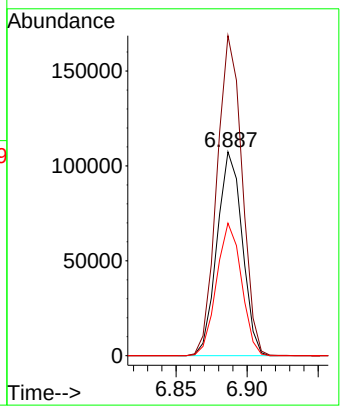


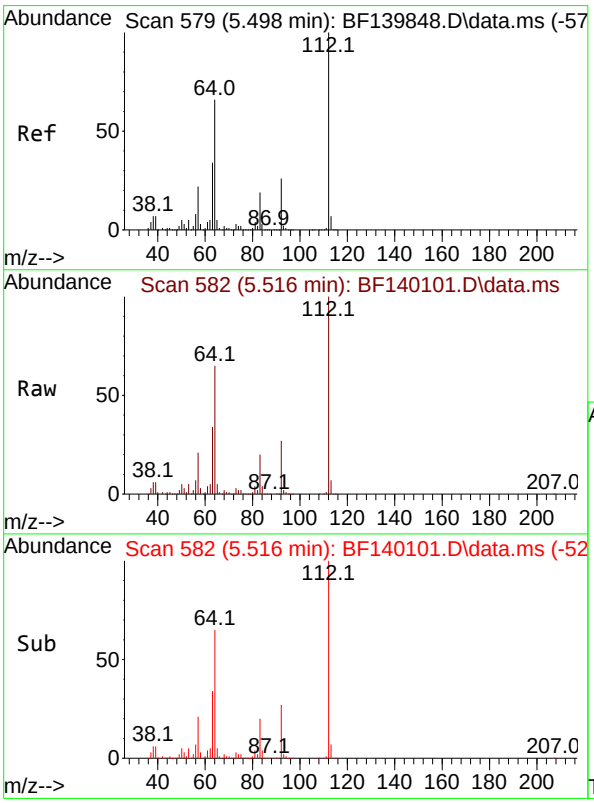
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 8
Delta R.T. -0.005 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Tgt Ion:152 Resp: 132334

Ion	Ratio	Lower	Upper
152	100		
150	156.9	130.2	195.2
115	65.0	51.4	77.2

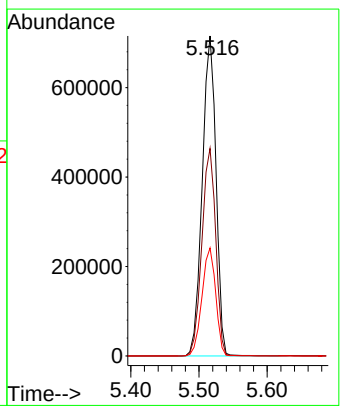


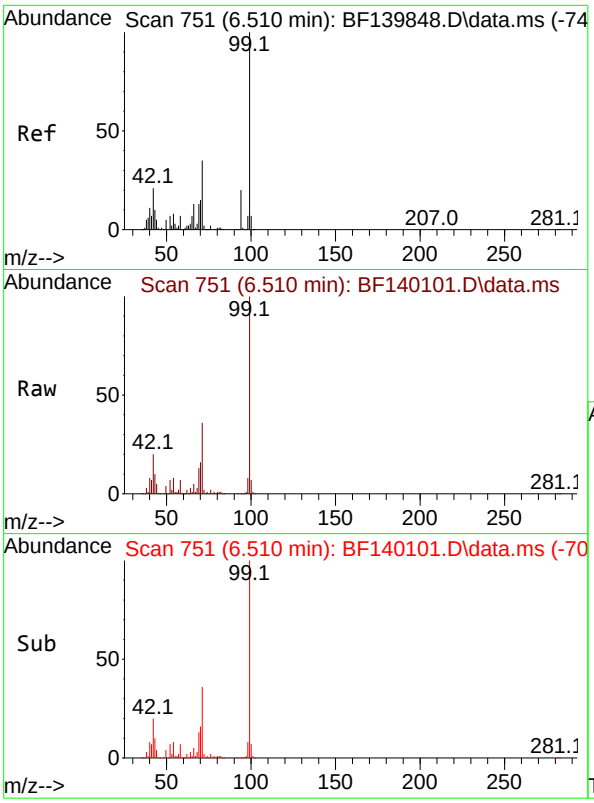


#5
2-Fluorophenol
Concen: 118.939 ng
RT: 5.516 min Scan# 582
Delta R.T. 0.018 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Tgt Ion:112 Resp: 1005416

Ion	Ratio	Lower	Upper
112	100		
64	64.9	53.0	79.6
63	33.7	27.0	40.4



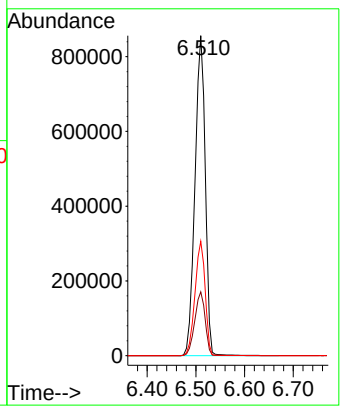


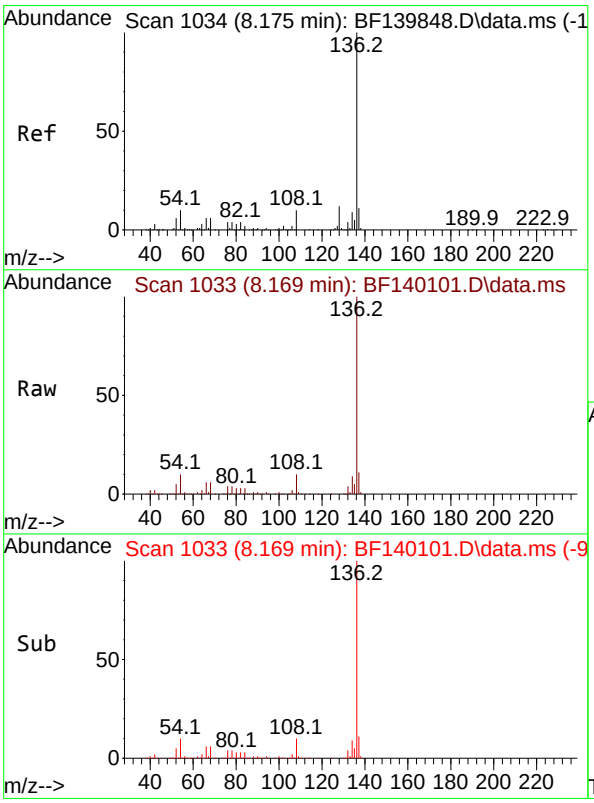
#7
Phenol-d6
Concen: 115.917 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Tgt Ion: 99 Resp: 1269087

Ion	Ratio	Lower	Upper
99	100		
42	19.9	16.7	25.1
71	35.7	27.7	41.5

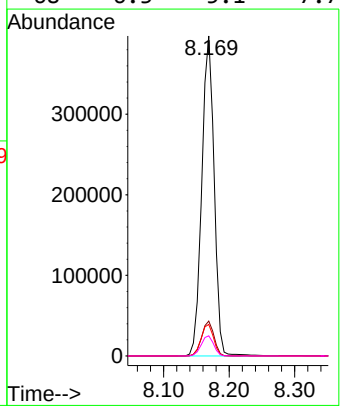


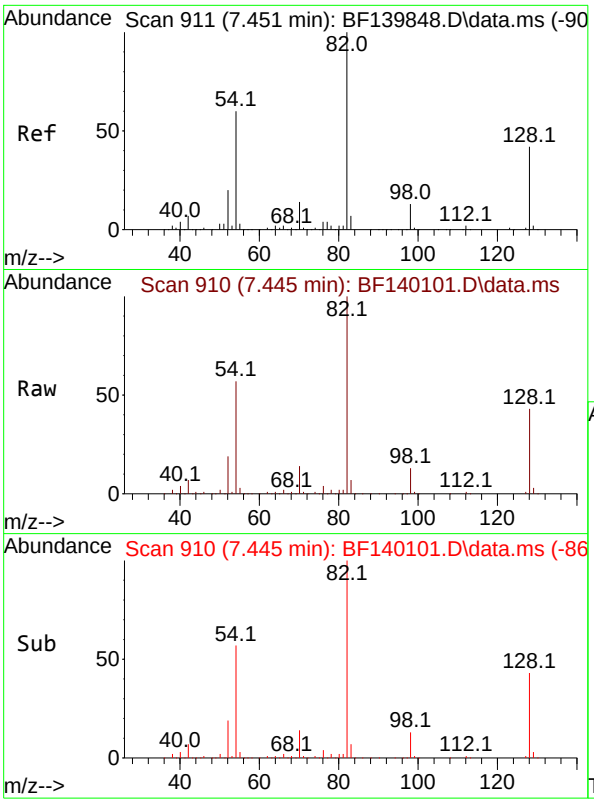


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Tgt Ion:136 Resp: 522078

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.6	12.8
54	9.8	8.4	12.6
68	6.3	5.1	7.7



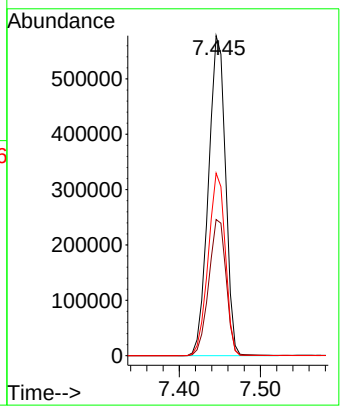


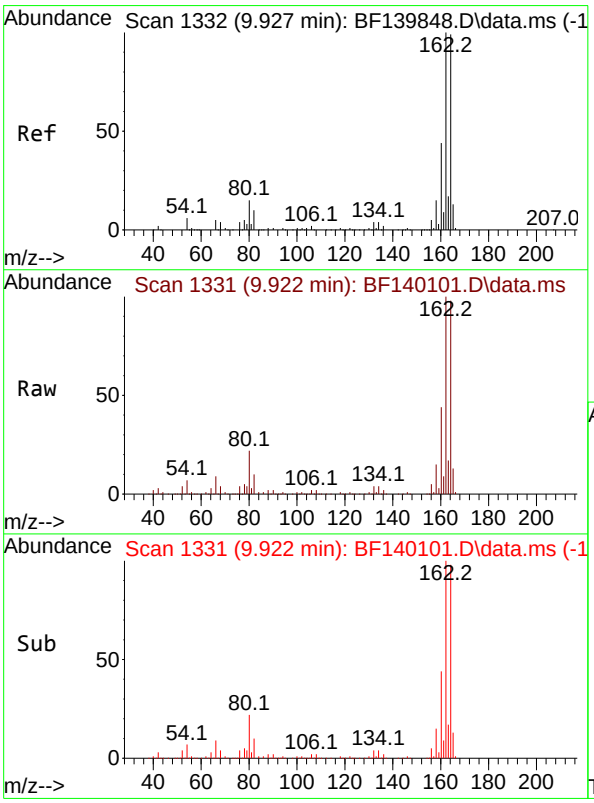
#23
Nitrobenzene-d5
Concen: 89.653 ng
RT: 7.445 min Scan# 91
Delta R.T. -0.006 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Tgt Ion: 82 Resp: 844513

Ion	Ratio	Lower	Upper
82	100		
128	42.5	33.4	50.0
54	57.0	47.8	71.8

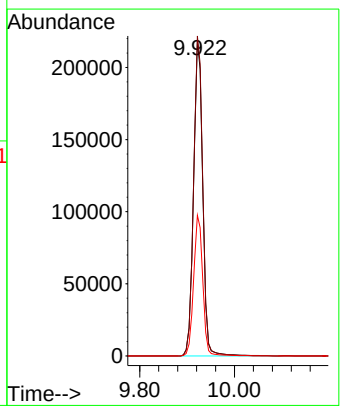


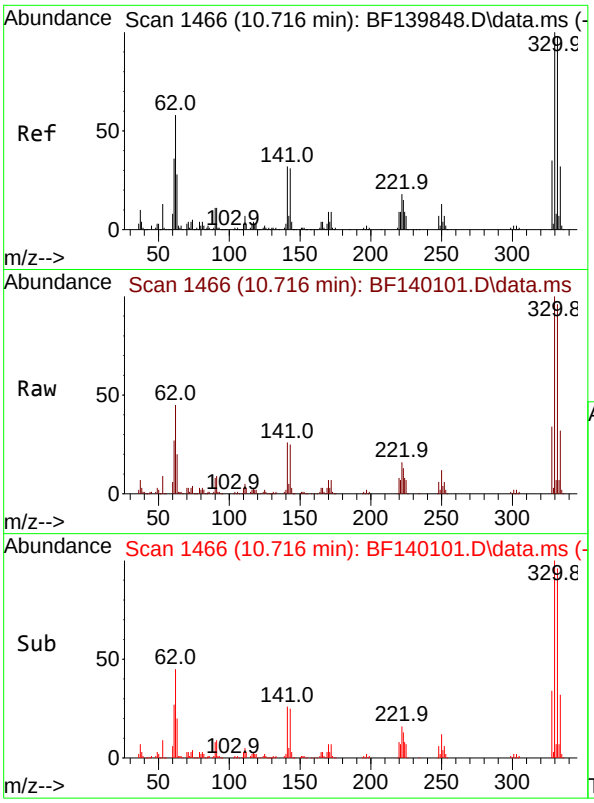


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1331
Delta R.T. -0.005 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Tgt Ion:164 Resp: 293840

Ion	Ratio	Lower	Upper
164	100		
162	101.6	81.0	121.4
160	44.7	35.4	53.0



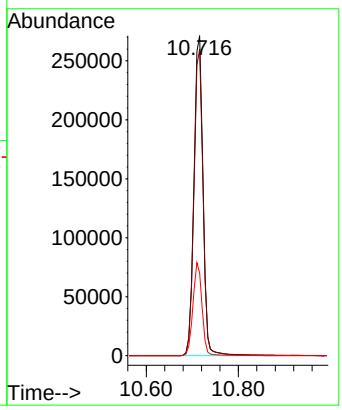


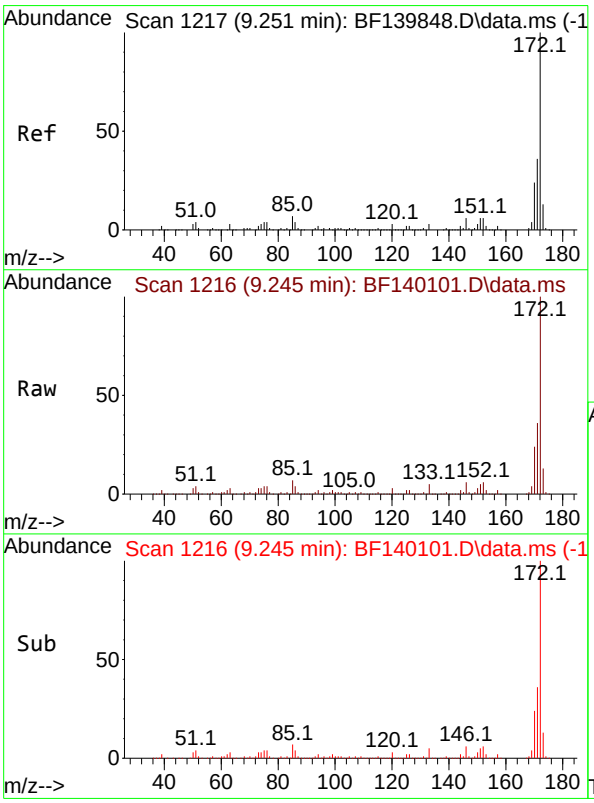
#42
2,4,6-Tribromophenol
Concen: 135.090 ng
RT: 10.716 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Tgt Ion:330 Resp: 371294

Ion	Ratio	Lower	Upper
330	100		
332	95.8	78.1	117.1
141	29.0	26.6	39.8

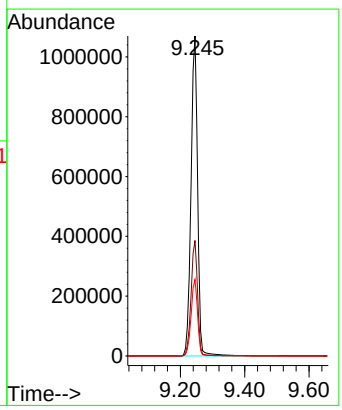


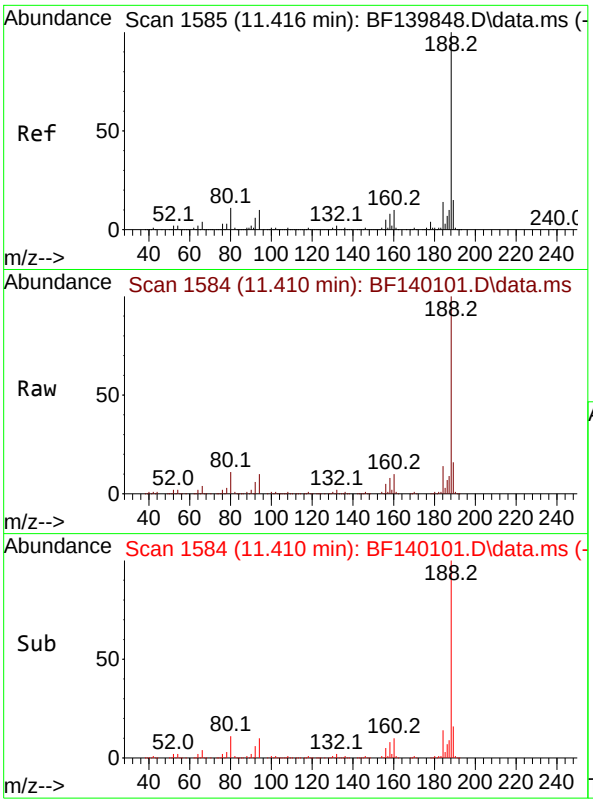


#45
2-Fluorobiphenyl
Concen: 86.032 ng
RT: 9.245 min Scan# 1216
Delta R.T. -0.006 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Tgt Ion:172 Resp: 1529595

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.6	43.0
170	23.9	19.1	28.7



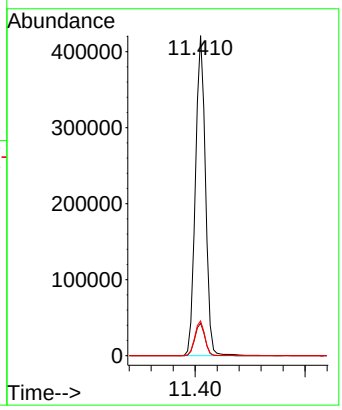


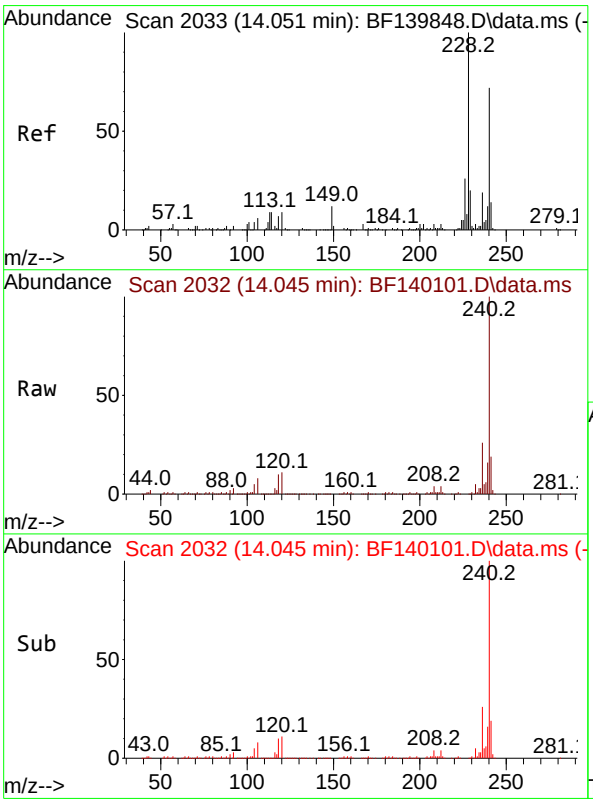
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Tgt Ion:188 Resp: 532374

Ion	Ratio	Lower	Upper
188	100		
94	10.2	7.9	11.9
80	10.9	9.0	13.4

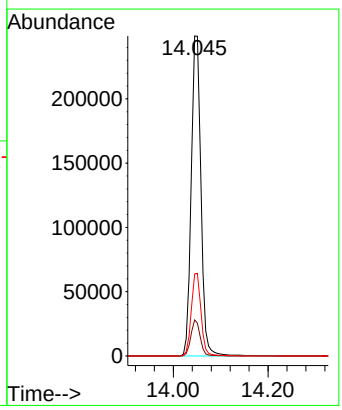


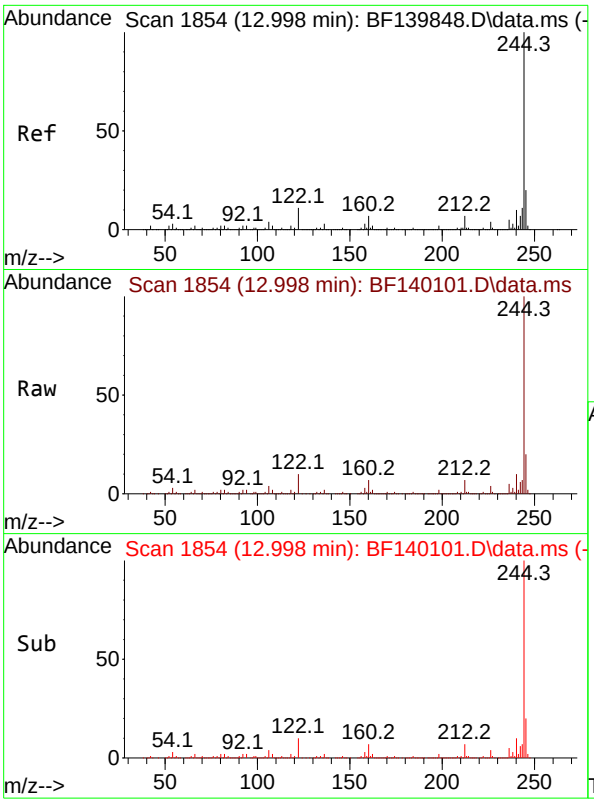


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.045 min Scan# 2032
Delta R.T. -0.006 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Tgt Ion:240 Resp: 353787

Ion	Ratio	Lower	Upper
240	100		
120	11.2	9.4	14.2
236	25.7	20.9	31.3



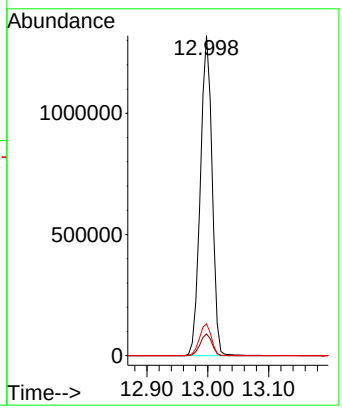


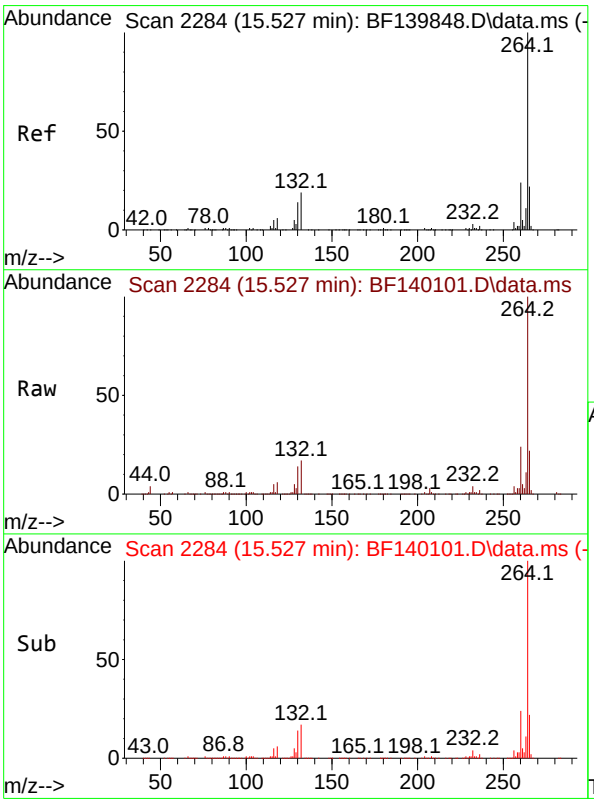
#79
Terphenyl-d14
Concen: 81.652 ng
RT: 12.998 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Instrument :
BNA_F
ClientSampleId :
PB164461BL

Tgt Ion:244 Resp: 1772789

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.7	8.5
122	9.9	8.6	13.0

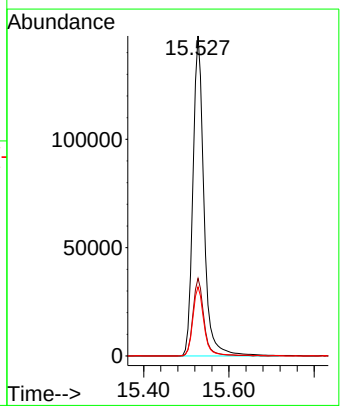




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.527 min Scan# 2284
Delta R.T. 0.000 min
Lab File: BF140101.D
Acq: 29 Oct 2024 10:05

Tgt Ion:264 Resp: 265432

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.4	29.2
265	21.6	17.4	26.0



Sample Results: **BF140101.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140101.D
Acq On : 29 Oct 2024 10:05
Operator : RC/JU
Sample : PB164461BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164461BL

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: BF140101.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.257	22	28	35	rVB	64016	110751	2.42%	0.392%
2	4.028	323	329	336	rVB	95189	148334	3.24%	0.525%
3	5.516	575	582	587	rBV	2624062	3686953	80.42%	13.044%
4	6.510	744	751	756	rBV	2505060	3692827	80.55%	13.065%
5	6.887	810	815	820	rBV	663892	811248	17.70%	2.870%
6	7.445	903	910	916	rBV	1719891	2511645	54.78%	8.886%
7	8.169	1027	1033	1038	rBV	823553	1075342	23.46%	3.804%
8	9.245	1208	1216	1221	rBV	3139567	4388519	95.72%	15.526%
9	9.922	1325	1331	1350	rBV	941396	1253723	27.35%	4.436%
10	10.710	1459	1465	1483	rBV	1978273	2735902	59.68%	9.679%
11	11.410	1578	1584	1593	rBV	1025478	1284527	28.02%	4.544%
12	12.816	1818	1823	1827	rBV	111062	140421	3.06%	0.497%
13	12.998	1848	1854	1859	rBV	3421747	4584564	100.00%	16.220%
14	13.516	1937	1942	1947	rBV	75508	98002	2.14%	0.347%
15	14.045	2020	2032	2046	rBV	704368	1043721	22.77%	3.693%
16	15.527	2278	2284	2301	rBV	393768	699137	15.25%	2.473%

Sum of corrected areas: 28265616

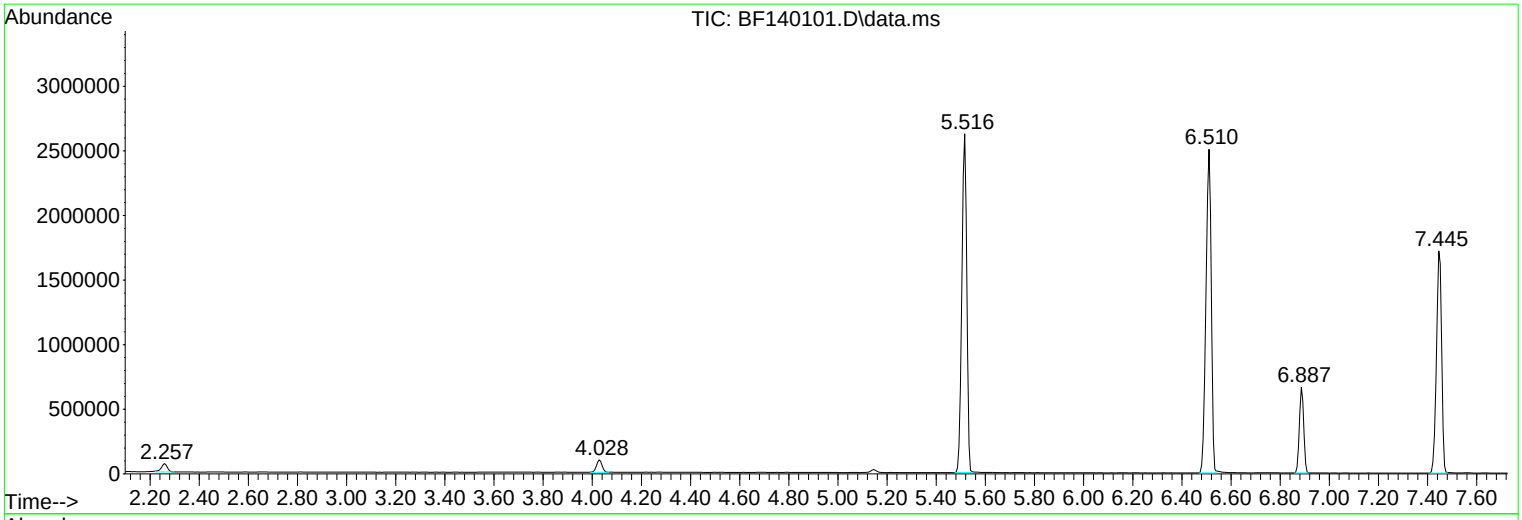
Sample Results: **BF140101.D**

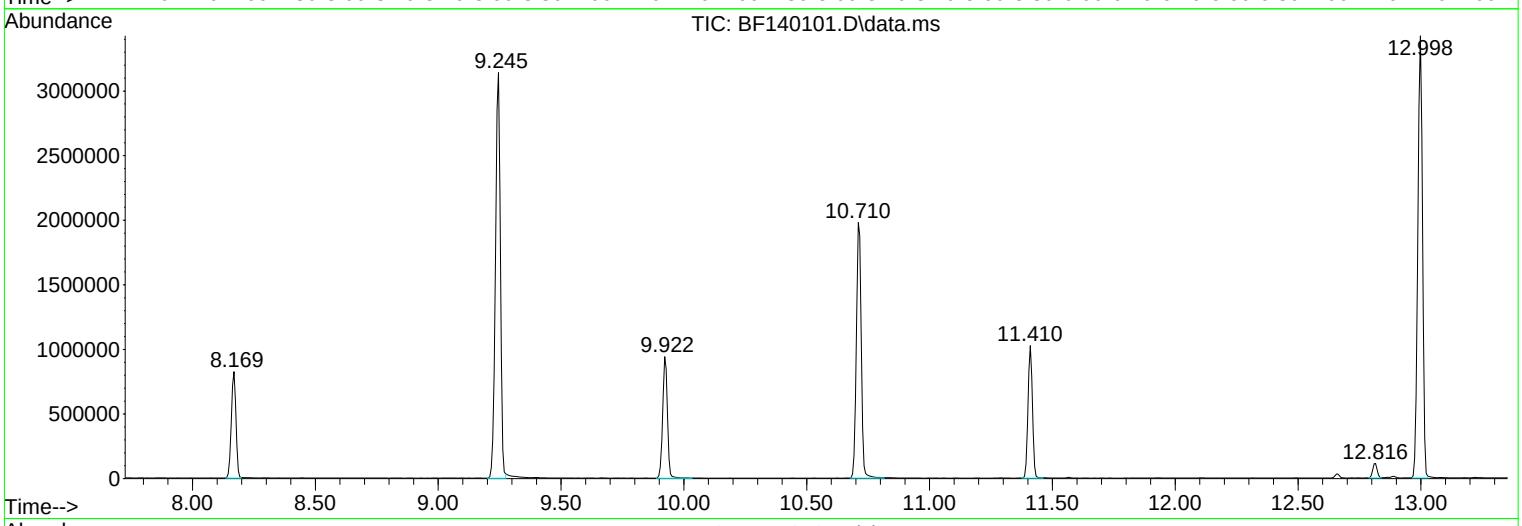
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140101.D
Acq On : 29 Oct 2024 10:05
Operator : RC/JU
Sample : PB164461BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

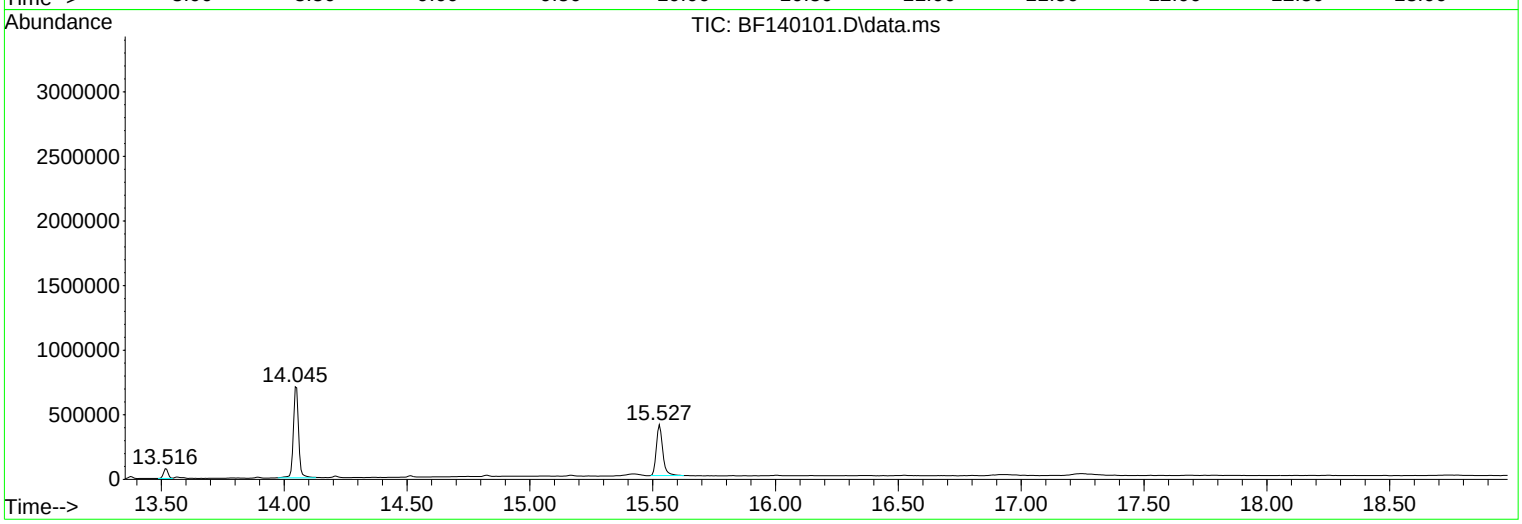
Instrument :
BNA_F
ClientSampleId :
PB164461BL

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\BF102924\
Data File : BF140101.D
Acq On : 29 Oct 2024 10:05
Operator : RC/JU
Sample : PB164461BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164461BL

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

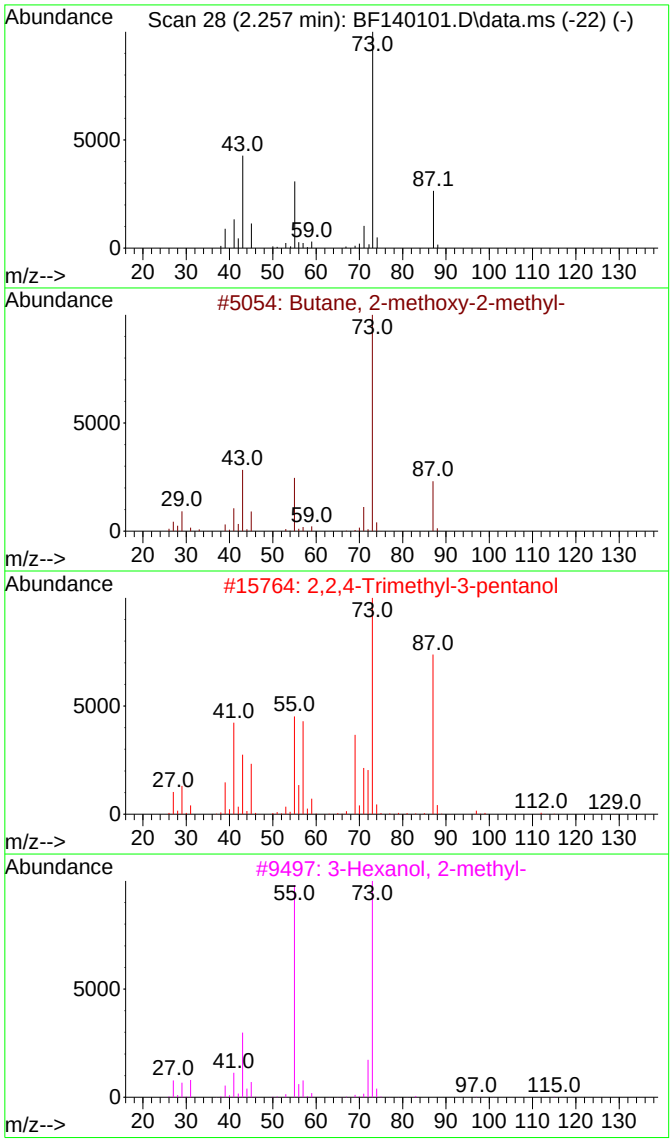
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

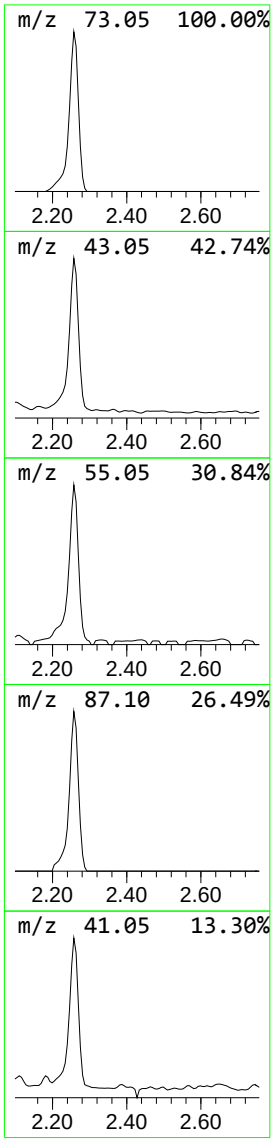
****

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.257	2.73 ng	110751	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	3-Hexanol, 2-methyl-	116	C7H16O	000617-29-8	25
4	Silane, tetramethyl-	88	C4H12Si	000075-76-3	25
5	Octanal, 7-methoxy-3,7-dimethyl-	186	C11H22O2	003613-30-7	17





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140101.D
Acq On : 29 Oct 2024 10:05
Operator : RC/JU
Sample : PB164461BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164461BL

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

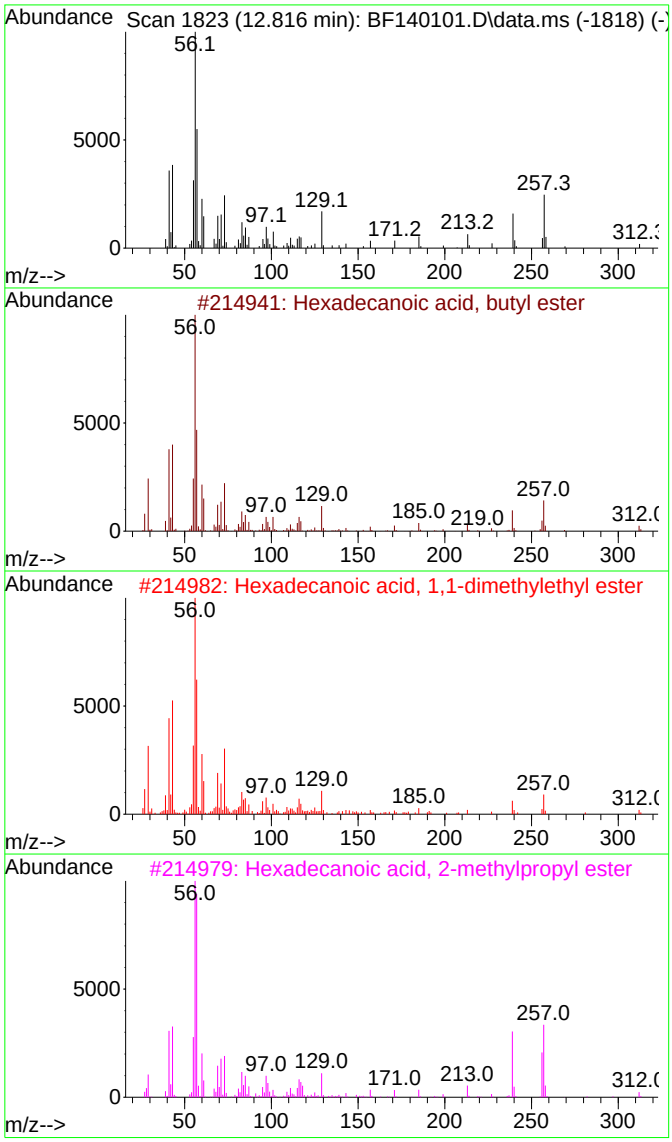
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

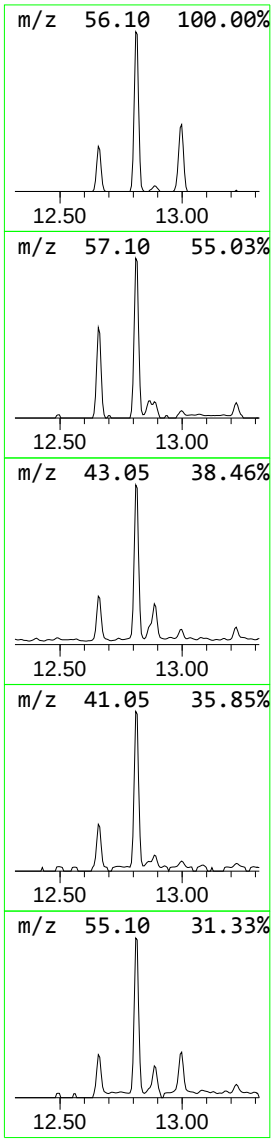
****

Peak Number 3 Hexadecanoic acid, butyl ester Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.816	2.69 ng	140421	Chrysene-d12	14.045

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecanoic acid, butyl ester	312	C20H40O2	000111-06-8	99
2	Hexadecanoic acid, 1,1-dimethyle...	312	C20H40O2	031158-91-5	96
3	Hexadecanoic acid, 2-methylpropy...	312	C20H40O2	000110-34-9	91
4	1-Hexene, 2,5-dimethyl-	112	C8H16	006975-92-4	30
5	Cyclohexanol, 4-amino-, trans-	115	C6H13NO	027489-62-9	30





Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140101.D
Acq On : 29 Oct 2024 10:05
Operator : RC/JU
Sample : PB164461BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB164461BL

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...	2.257	2.7	ng	110751	1	6.887	811248	20.0
Hexadecanoic ac...	12.816	2.7	ng	140421	5	14.045	1043720	20.0

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101426.D
Acq On : 31 Oct 2024 10:57
Operator : RC/JU
Sample : PB164533BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Quant Time: Oct 31 14:12:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

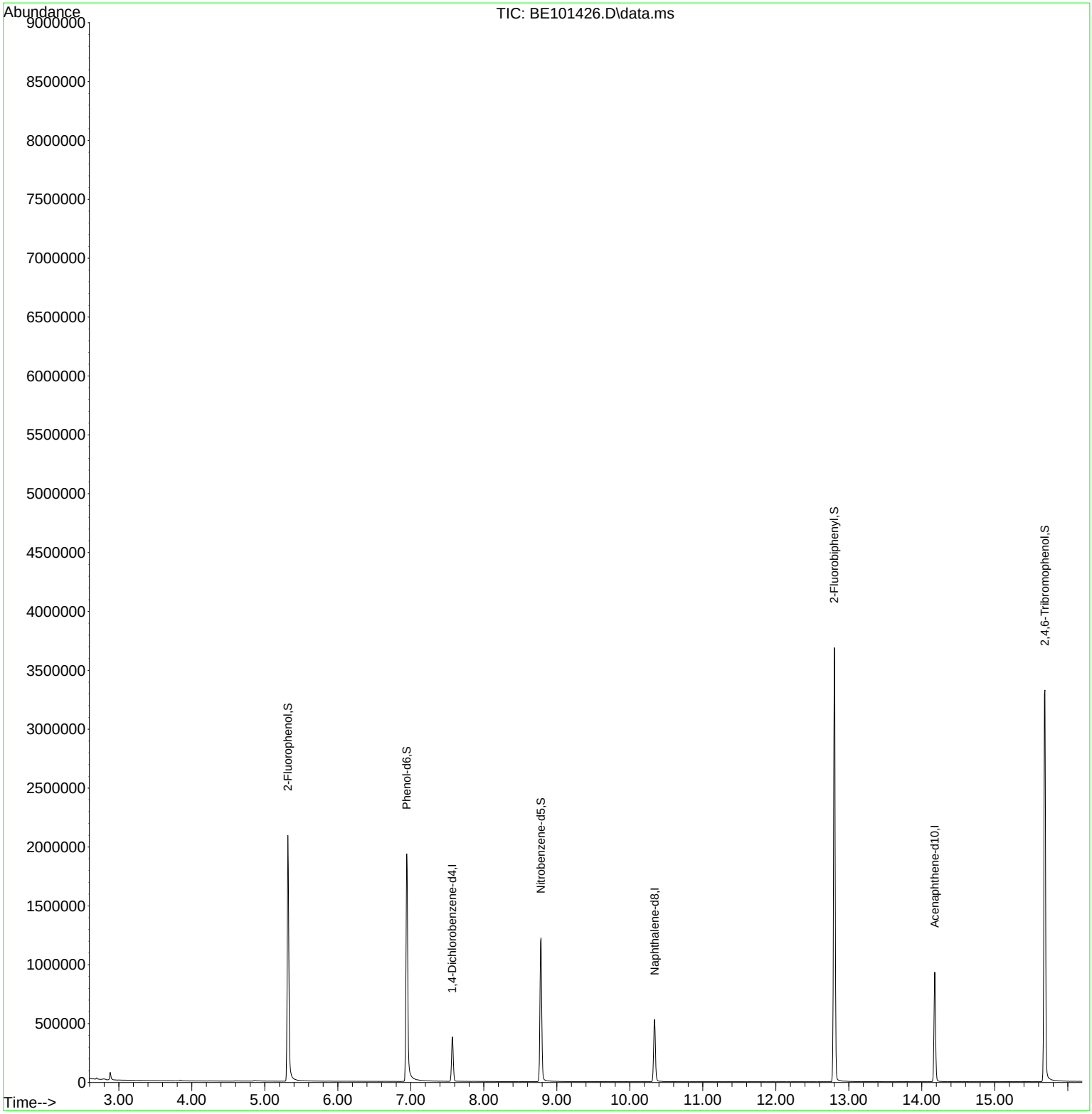
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.567	152	111412	20.000	ng	0.00
21) Naphthalene-d8	10.340	136	479387	20.000	ng	0.00
39) Acenaphthene-d10	14.177	164	322455	20.000	ng	0.00
64) Phenanthrene-d10	16.915	188	764639	20.000	ng	0.00
76) Chrysene-d12	21.075	240	978042	20.000	ng	0.00
86) Perylene-d12	23.361	264	1302952	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.317	112	1015593	159.767	ng	0.00
7) Phenol-d6	6.944	99	1307959	148.392	ng	0.00
23) Nitrobenzene-d5	8.783	82	750895	98.382	ng	0.00
42) 2,4,6-Tribromophenol	15.687	330	850212	150.437	ng	0.00
45) 2-Fluorobiphenyl	12.802	172	1974331	103.692	ng	0.00
79) Terphenyl-d14	19.512	244	3819837	89.889	ng	0.00
Target Compounds						Qvalue

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101426.D
Acq On : 31 Oct 2024 10:57
Operator : RC/JU
Sample : PB164533BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164533BL

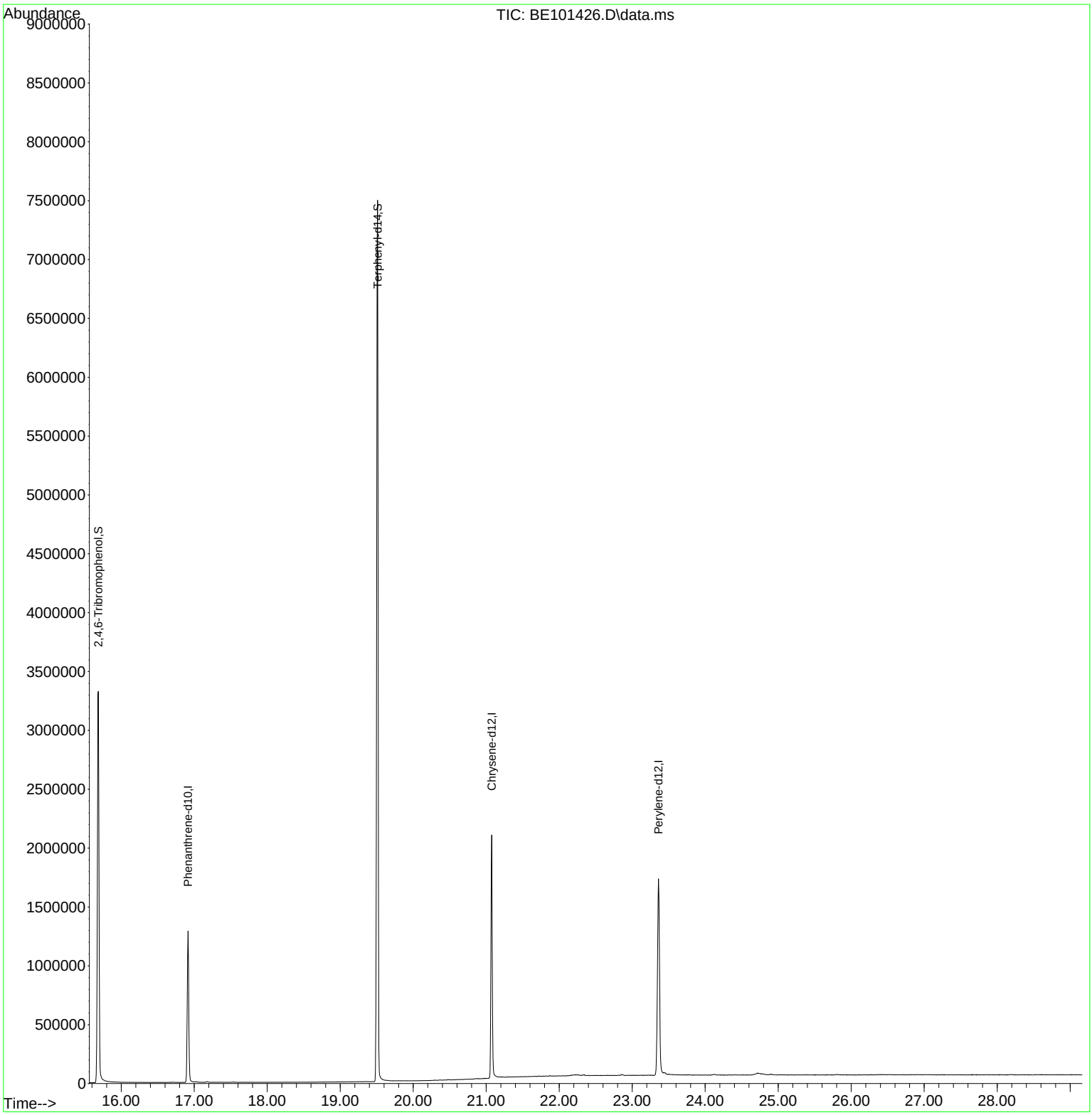
Quant Time: Oct 31 14:12:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

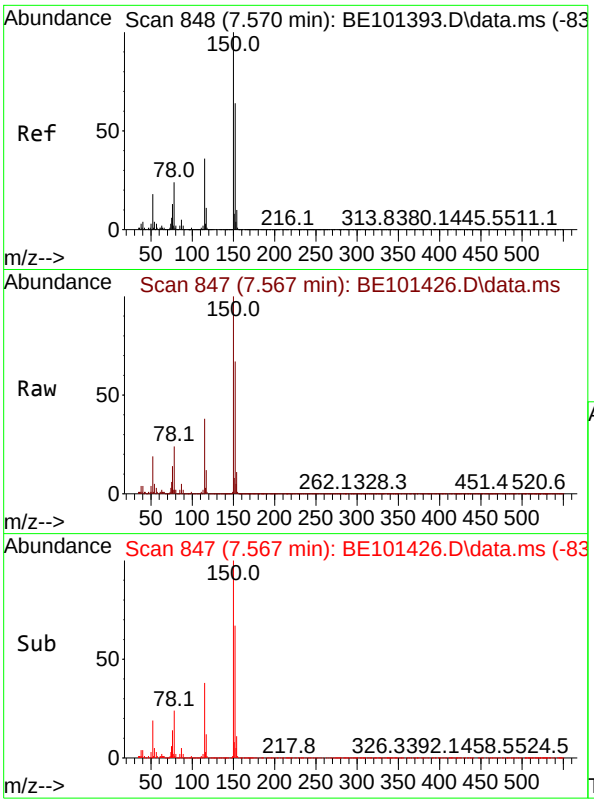


Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101426.D
Acq On : 31 Oct 2024 10:57
Operator : RC/JU
Sample : PB164533BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Quant Time: Oct 31 14:12:25 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration



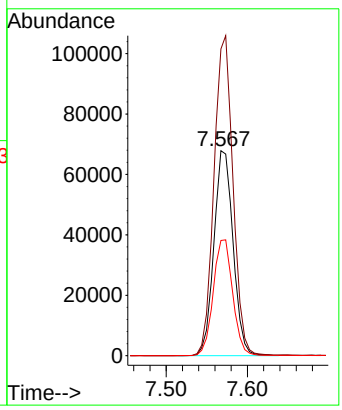


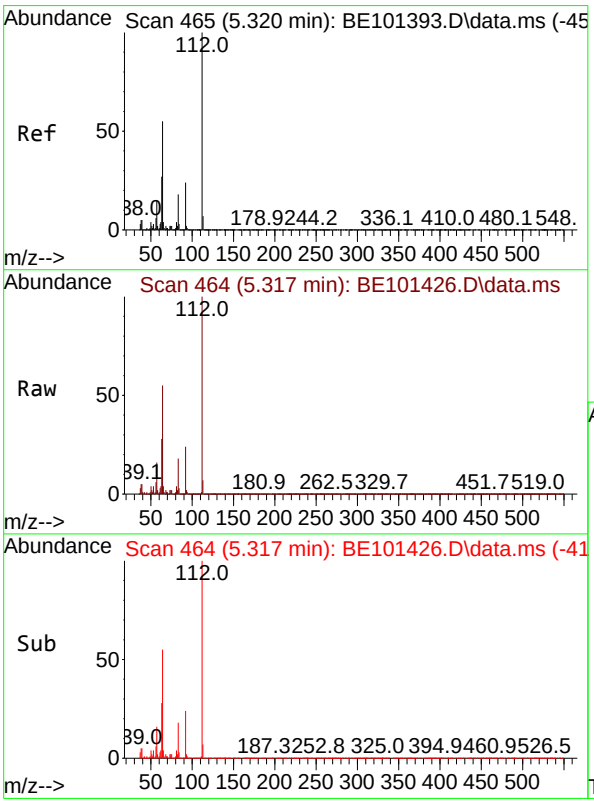
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.567 min Scan# 84
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Tgt Ion:152 Resp: 111412

Ion	Ratio	Lower	Upper
152	100		
150	149.6	124.2	186.4
115	56.2	45.3	67.9

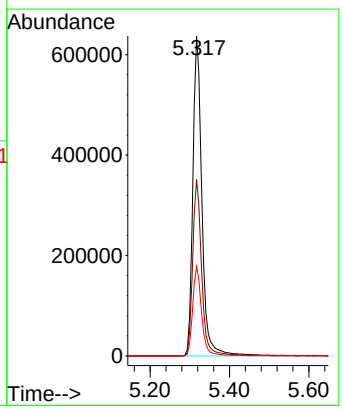


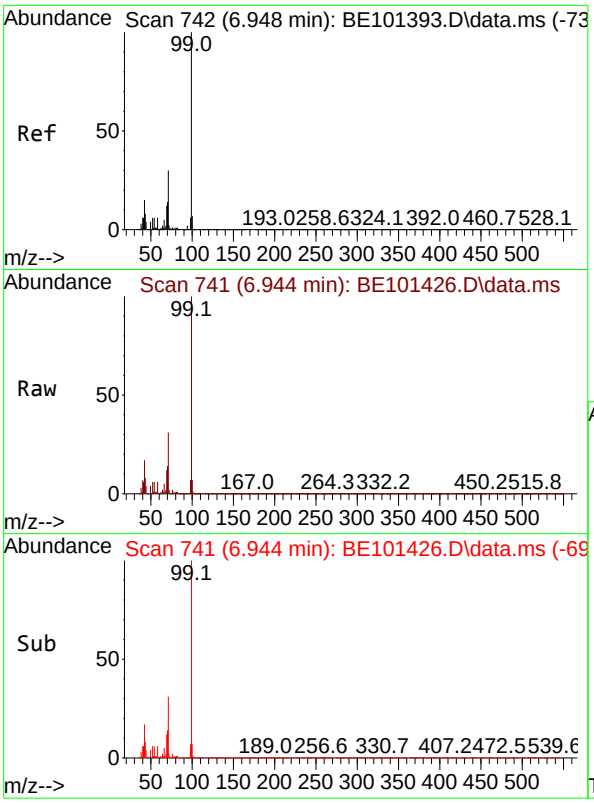


#5
2-Fluorophenol
Concen: 159.767 ng
RT: 5.317 min Scan# 464
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Tgt Ion:112 Resp: 1015593

Ion	Ratio	Lower	Upper
112	100		
64	55.1	43.7	65.5
63	28.0	21.4	32.2



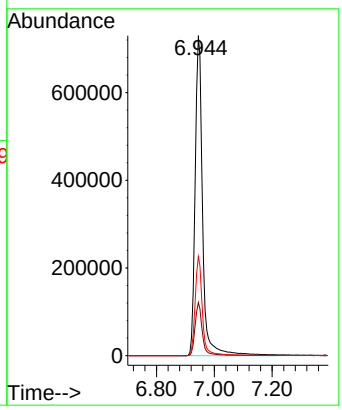


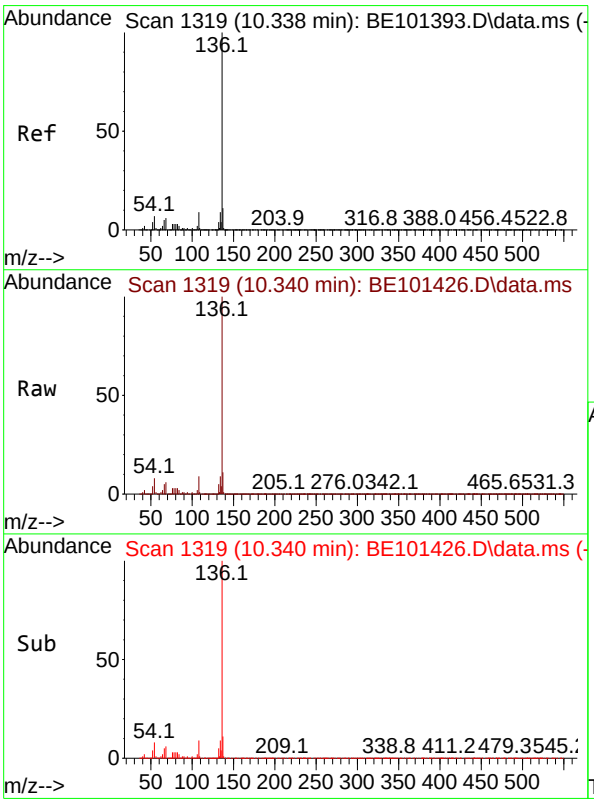
#7
Phenol-d6
Concen: 148.392 ng
RT: 6.944 min Scan# 7
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Tgt Ion: 99 Resp: 1307959

Ion	Ratio	Lower	Upper
99	100		
42	16.6	12.3	18.5
71	31.0	23.8	35.8

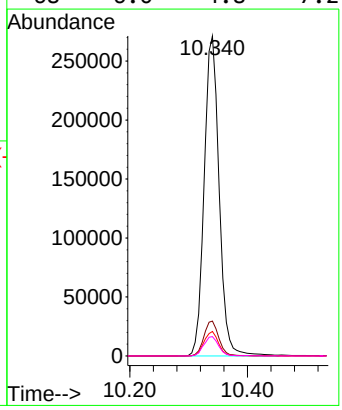


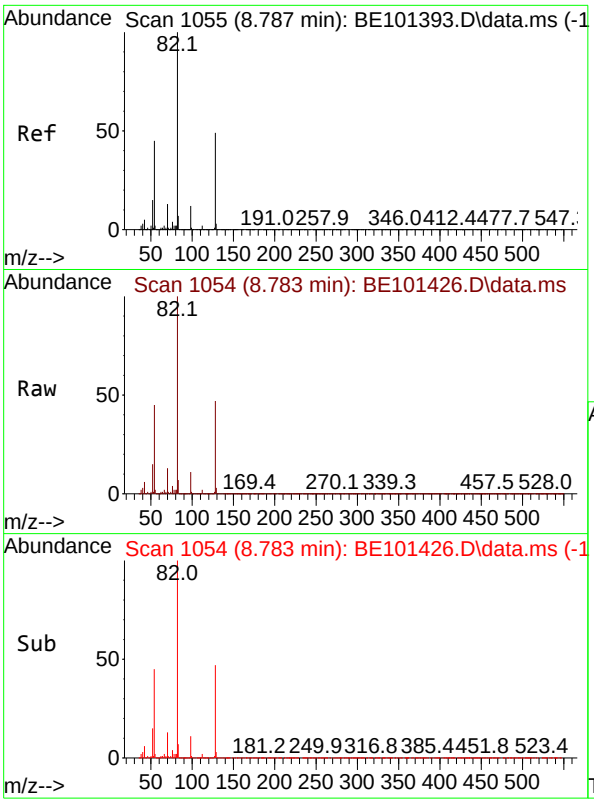


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.340 min Scan# 1319
Delta R.T. 0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Tgt Ion:136 Resp: 479387

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.6
54	7.6	5.9	8.9
68	6.0	4.8	7.2



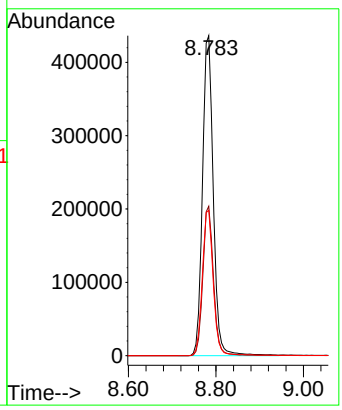


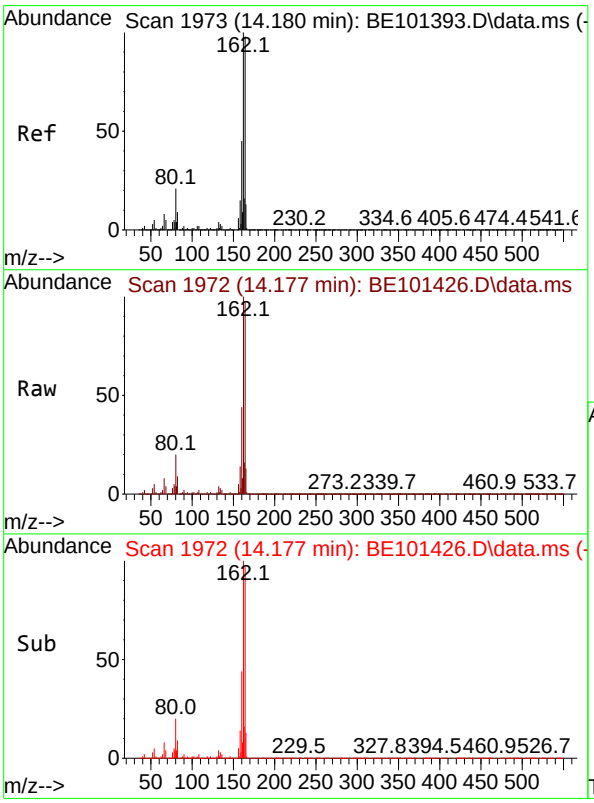
#23
Nitrobenzene-d5
Concen: 98.382 ng
RT: 8.783 min Scan# 1
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Tgt Ion: 82 Resp: 750895

Ion	Ratio	Lower	Upper
82	100		
128	46.7	38.9	58.3
54	45.5	36.2	54.4

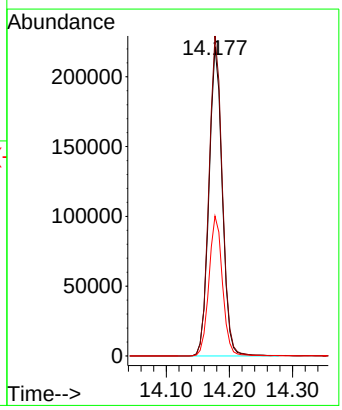


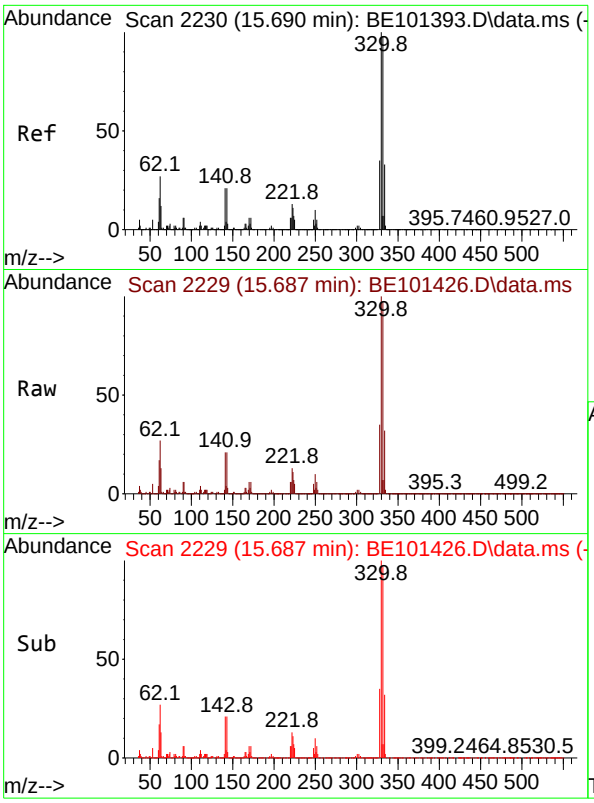


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.177 min Scan# 1972
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Tgt Ion:164 Resp: 322455

Ion	Ratio	Lower	Upper
164	100		
162	103.4	81.3	121.9
160	45.2	36.4	54.6



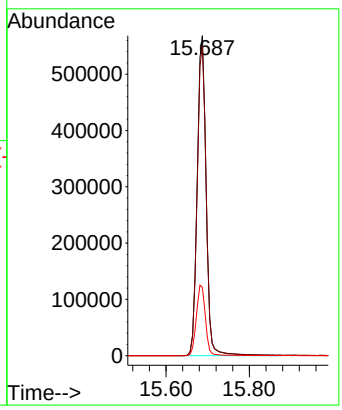


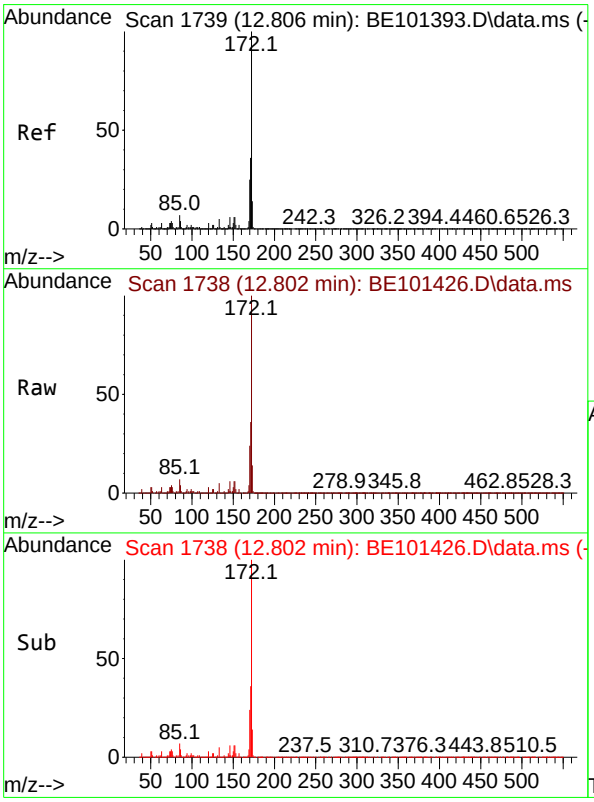
#42
2,4,6-Tribromophenol
Concen: 150.437 ng
RT: 15.687 min Scan# 2
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Tgt Ion:330 Resp: 850212

Ion	Ratio	Lower	Upper
330	100		
332	97.7	78.2	117.2
141	22.7	18.3	27.5

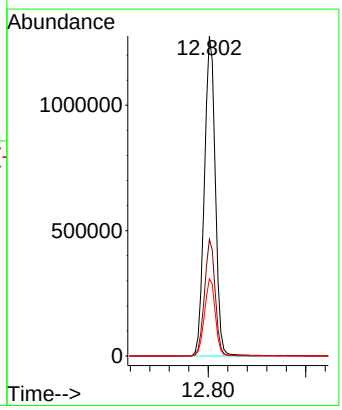


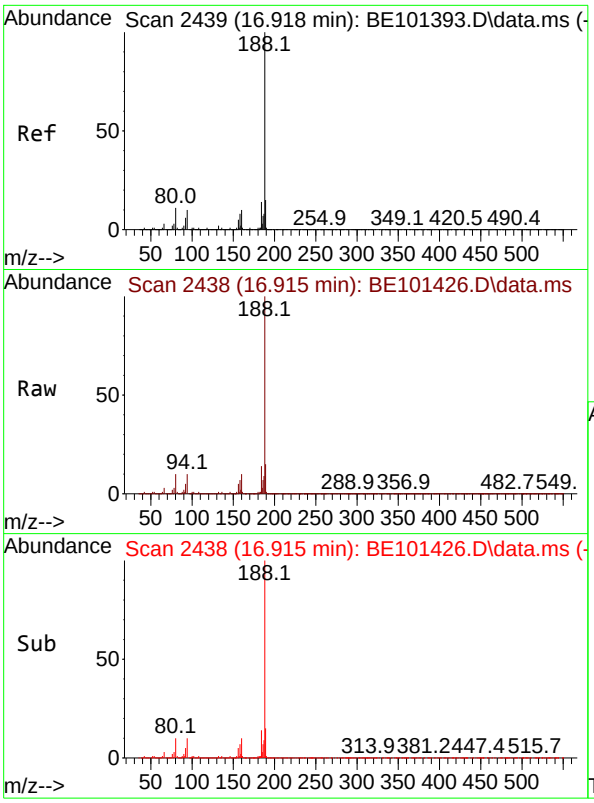


#45
2-Fluorobiphenyl
Concen: 103.692 ng
RT: 12.802 min Scan# 1738
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Tgt Ion:172 Resp: 1974331

Ion	Ratio	Lower	Upper
172	100		
171	36.5	29.2	43.8
170	24.1	19.8	29.6



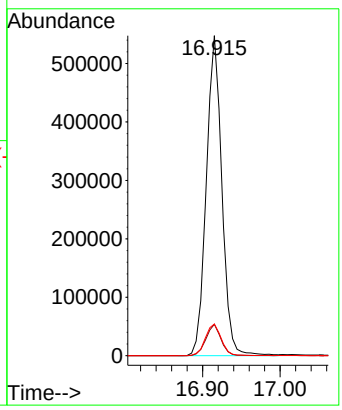


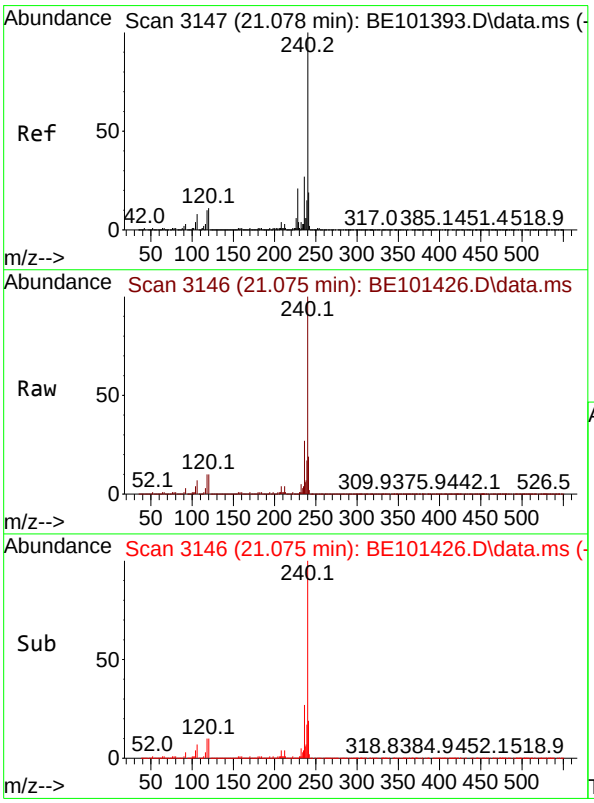
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 16.915 min Scan# 24
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Tgt Ion:188 Resp: 764639

Ion	Ratio	Lower	Upper
188	100		
94	9.8	7.8	11.8
80	9.9	8.6	12.8

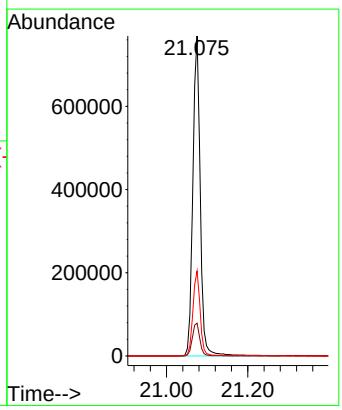


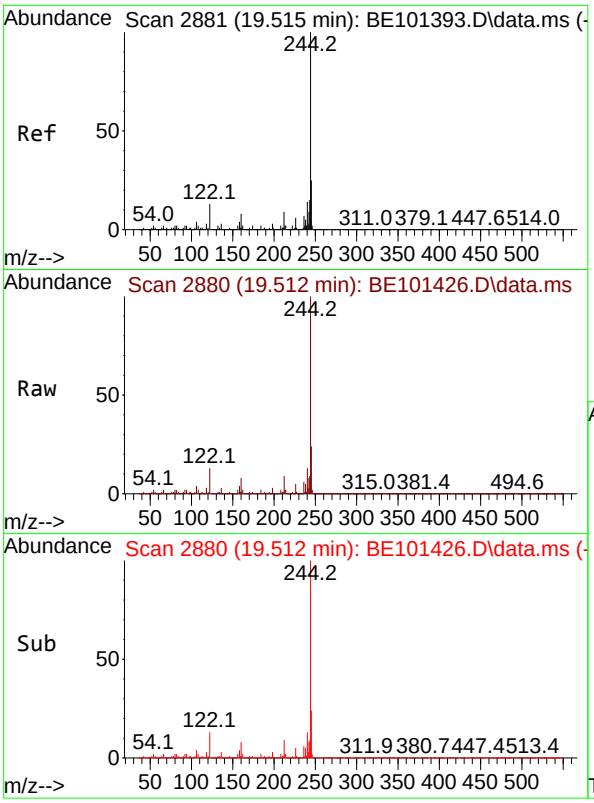


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.075 min Scan# 3146
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Tgt Ion:240 Resp: 978042

Ion	Ratio	Lower	Upper
240	100		
120	10.3	9.0	13.4
236	26.5	21.4	32.0



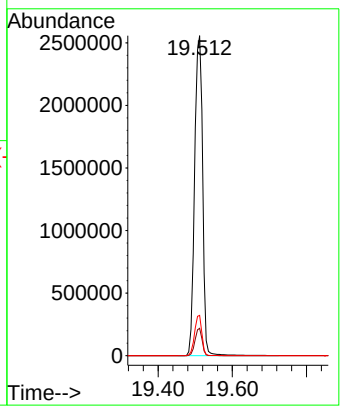


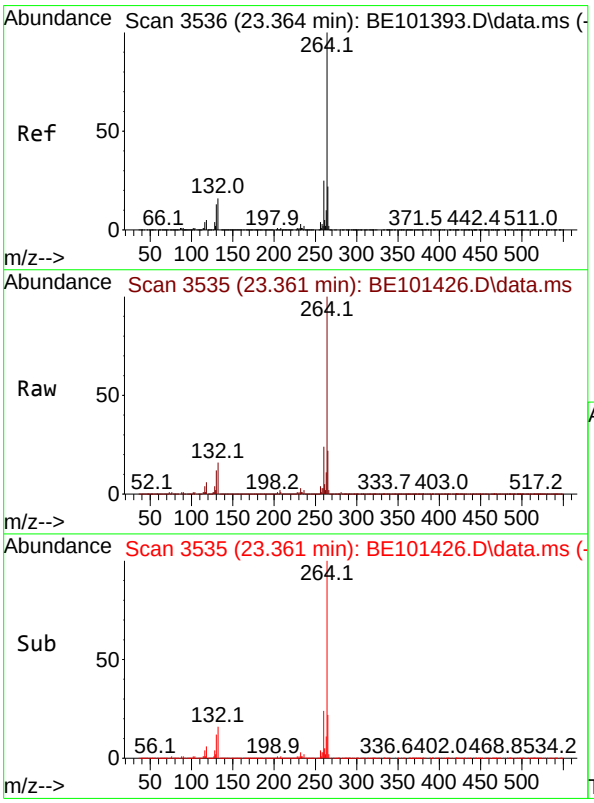
#79
Terphenyl-d14
Concen: 89.889 ng
RT: 19.512 min Scan# 2
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Tgt Ion:244 Resp: 3819837

Ion	Ratio	Lower	Upper
244	100		
212	8.6	7.2	10.8
122	12.6	10.4	15.6

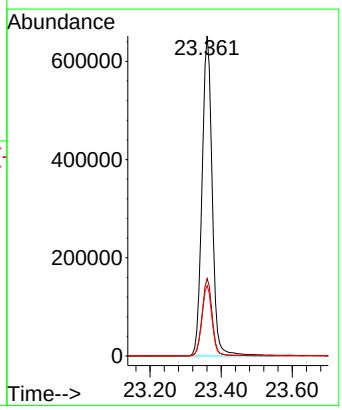




#86
Perylene-d12
Concen: 20.000 ng
RT: 23.361 min Scan# 3535
Delta R.T. -0.003 min
Lab File: BE101426.D
Acq: 31 Oct 2024 10:57

Tgt Ion:264 Resp: 1302952

Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.8	29.8
265	22.0	17.6	26.4



Sample Results: **BE101426.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101426.D
Acq On : 31 Oct 2024 10:57
Operator : RC/JU
Sample : PB164533BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164533BL

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_E\Methods\8270-BE102824.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BE101426.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.317	458	464	496	rBV	2087337	3291924	31.49%	8.061%
2	6.944	734	741	782	rBV	1934783	3476026	33.25%	8.511%
3	7.573	838	848	858	rBV	377109	626690	5.99%	1.535%
4	8.783	1045	1054	1078	rBV	1223310	2123328	20.31%	5.199%
5	10.340	1311	1319	1340	rBV	529149	937626	8.97%	2.296%
6	12.802	1730	1738	1759	rBV	3686589	5627324	53.83%	13.779%
7	14.177	1965	1972	1984	rBV	931398	1369332	13.10%	3.353%
8	15.687	2220	2229	2260	rBV	3326740	5202581	49.76%	12.739%
9	16.915	2431	2438	2452	rBV	1288833	1813390	17.35%	4.440%
10	19.512	2873	2880	2902	rBV	7487309	10454738	100.00%	25.599%
11	21.075	3140	3146	3164	rBV	2066648	2649913	25.35%	6.489%
12	23.361	3527	3535	3546	rBV	1667724	3266984	31.25%	7.999%

Sum of corrected areas: 40839856

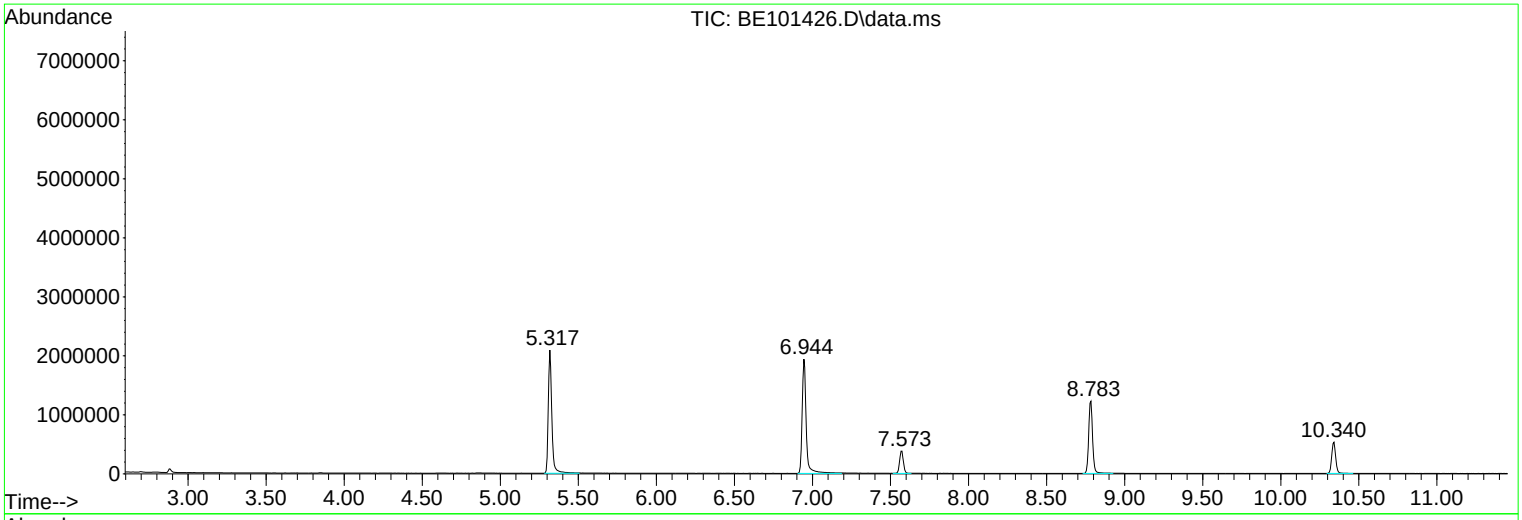
Sample Results: **BE101426.D**

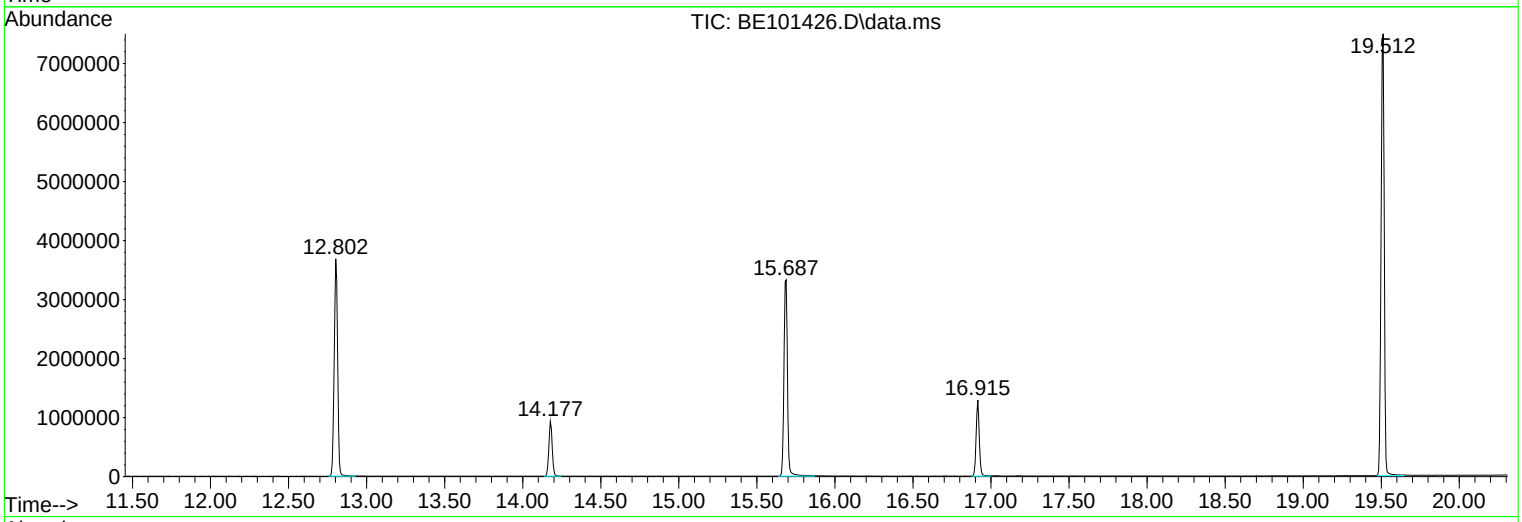
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101426.D
Acq On : 31 Oct 2024 10:57
Operator : RC/JU
Sample : PB164533BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

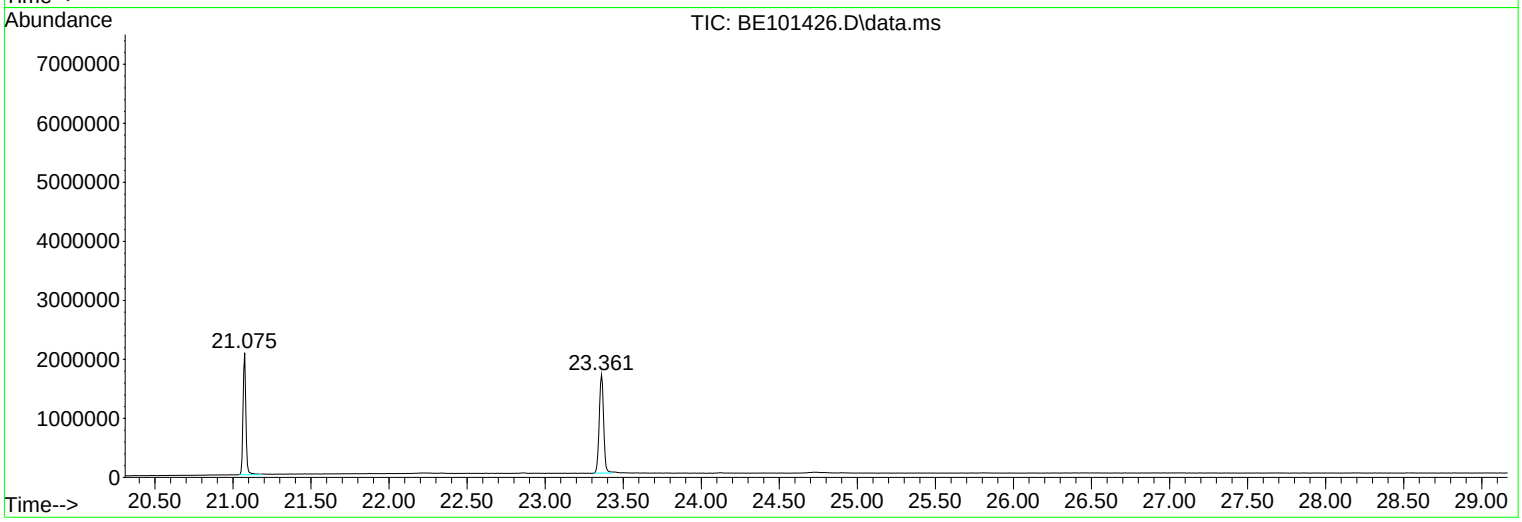
Instrument :
BNA_E
ClientSampleId :
PB164533BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Library Search Compound Report

Sample Results: **BE101426.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101426.D
Acq On : 31 Oct 2024 10:57
Operator : RC/JU
Sample : PB164533BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

No Library Search Compounds Detected
****

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101426.D
Acq On : 31 Oct 2024 10:57
Operator : RC/JU
Sample : PB164533BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
PB164533BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140102.D
Acq On : 29 Oct 2024 10:33
Operator : RC/JU
Sample : PB164461BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 29 11:35:02 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

Instrument :
BNA_F
ClientSampleId :
PB164461BS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	127430	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	500801	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	278385	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	513541	20.000	ng		0.00
76) Chrysene-d12	14.051	240	266065	20.000	ng		0.00
86) Perylene-d12	15.527	264	256361	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.516	112	993671	122.073	ng		0.02
7) Phenol-d6	6.516	99	1259140	119.434	ng		0.00
23) Nitrobenzene-d5	7.451	82	832307	92.111	ng		0.00
42) 2,4,6-Tribromophenol	10.722	330	375298	144.128	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1475257	87.582	ng		0.00
79) Terphenyl-d14	12.998	244	1640280	100.457	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.769	88	129062	34.006	ng		97
3) Pyridine	3.528	79	345549	36.732	ng		99
4) n-Nitrosodimethylamine	3.475	42	200636	39.696	ng		99
6) Aniline	6.551	93	373487	38.012	ng		100
8) 2-Chlorophenol	6.675	128	380367	45.709	ng		98
9) Benzaldehyde	6.440	77	75532	12.736	ng		97
10) Phenol	6.528	94	485856m	44.702	ng		
11) bis(2-Chloroethyl)ether	6.622	93	374078	44.529	ng		99
12) 1,3-Dichlorobenzene	6.828	146	411835	43.113	ng		99
13) 1,4-Dichlorobenzene	6.904	146	412401	43.213	ng		99
14) 1,2-Dichlorobenzene	7.057	146	399868	44.894	ng		99
15) Benzyl Alcohol	7.028	79	357866	46.276	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	631415	44.079	ng		98
17) 2-Methylphenol	7.140	107	318963	44.951	ng		98
18) Hexachloroethane	7.404	117	150509	44.226	ng		96
19) n-Nitroso-di-n-propyla...	7.304	70	279877	43.772	ng		96
20) 3+4-Methylphenols	7.293	107	390148	42.987	ng	#	76
22) Acetophenone	7.298	105	528314	43.071	ng		99
24) Nitrobenzene	7.469	77	428354	43.238	ng		99
25) Isophorone	7.710	82	767951	44.778	ng		99
26) 2-Nitrophenol	7.787	139	200360	53.609	ng		97
27) 2,4-Dimethylphenol	7.822	122	321436	51.579	ng		98
28) bis(2-Chloroethoxy)met...	7.916	93	456565	43.940	ng		100
29) 2,4-Dichlorophenol	8.028	162	320640	45.171	ng		99
30) 1,2,4-Trichlorobenzene	8.110	180	333493	42.459	ng		99
31) Naphthalene	8.192	128	1112457	43.071	ng		99
32) Benzoic acid	7.934	122	240344	44.218	ng		98
33) 4-Chloroaniline	8.234	127	146520	16.637	ng		99
34) Hexachlorobutadiene	8.310	225	217159	44.004	ng		99
35) Caprolactam	8.610	113	106047m	46.985	ng		
36) 4-Chloro-3-methylphenol	8.716	107	360311	45.842	ng		99
37) 2-Methylnaphthalene	8.886	142	710773	44.934	ng		100
38) 1-Methylnaphthalene	8.986	142	654008	42.141	ng		100
40) 1,2,4,5-Tetrachloroben...	9.051	216	336224	44.768	ng		99
41) Hexachlorocyclopentadiene	9.039	237	437928	167.579	ng		99
43) 2,4,6-Trichlorophenol	9.157	196	248514	46.737	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140102.D
Acq On : 29 Oct 2024 10:33
Operator : RC/JU
Sample : PB164461BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 29 11:35:02 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

Instrument :
BNA_F
ClientSampleId :
PB164461BS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	253928	46.287	ng		98
46) 1,1'-Biphenyl	9.351	154	857279	44.236	ng		99
47) 2-Chloronaphthalene	9.375	162	685431	43.914	ng		100
48) 2-Nitroaniline	9.469	65	242126	50.720	ng		94
49) Acenaphthylene	9.792	152	1071550	47.486	ng		100
50) Dimethylphthalate	9.651	163	796125	45.913	ng		100
51) 2,6-Dinitrotoluene	9.710	165	177248	47.210	ng		98
52) Acenaphthene	9.963	154	750474	51.411	ng		100
53) 3-Nitroaniline	9.875	138	112113	28.957	ng		99
54) 2,4-Dinitrophenol	9.986	184	205710	127.641	ng	#	1
55) Dibenzofuran	10.133	168	949974	45.358	ng		100
56) 4-Nitrophenol	10.034	139	297830	99.985	ng		96
57) 2,4-Dinitrotoluene	10.116	165	245903	53.260	ng		98
58) Fluorene	10.475	166	725048	45.452	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	214271	49.823	ng		98
60) Diethylphthalate	10.351	149	779453	45.782	ng		100
61) 4-Chlorophenyl-phenyle...	10.469	204	371429	46.107	ng		99
62) 4-Nitroaniline	10.492	138	183008	50.047	ng		98
63) Azobenzene	10.628	77	805434	44.623	ng		99
65) 4,6-Dinitro-2-methylph...	10.522	198	141178	67.397	ng		93
66) n-Nitrosodiphenylamine	10.586	169	677802	44.099	ng		100
67) 4-Bromophenyl-phenylether	10.957	248	235997	44.608	ng		97
68) Hexachlorobenzene	11.022	284	264678	44.484	ng		100
69) Atrazine	11.110	200	227268	54.585	ng		98
70) Pentachlorophenol	11.216	266	333392	92.325	ng		99
71) Phenanthrene	11.439	178	1081706	44.593	ng		100
72) Anthracene	11.492	178	1118559	47.261	ng		100
73) Carbazole	11.645	167	980816	44.559	ng		100
74) Di-n-butylphthalate	11.975	149	1192125	46.878	ng		99
75) Fluoranthene	12.627	202	1132991	46.202	ng		99
77) Benzidine	12.745	184	179073	40.931	ng		99
78) Pyrene	12.857	202	1137589	48.846	ng		100
80) Butylbenzylphthalate	13.469	149	402746	57.681	ng		100
81) Benzo(a)anthracene	14.039	228	841427	48.581	ng		100
82) 3,3'-Dichlorobenzidine	14.004	252	157179	31.125	ng		98
83) Chrysene	14.080	228	734528	46.254	ng		99
84) Bis(2-ethylhexyl)phtha...	14.027	149	461897	58.963	ng		100
85) Di-n-octyl phthalate	14.639	149	650652	45.664	ng		97
87) Indeno(1,2,3-cd)pyrene	17.033	276	815498	49.447	ng		98
88) Benzo(b)fluoranthene	15.098	252	697670	44.675	ng		100
89) Benzo(k)fluoranthene	15.127	252	656050	48.712	ng		100
90) Benzo(a)pyrene	15.468	252	648512	50.469	ng		99
91) Dibenzo(a,h)anthracene	17.051	278	662425	48.147	ng		99
92) Benzo(g,h,i)perylene	17.486	276	627022	45.626	ng		99

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

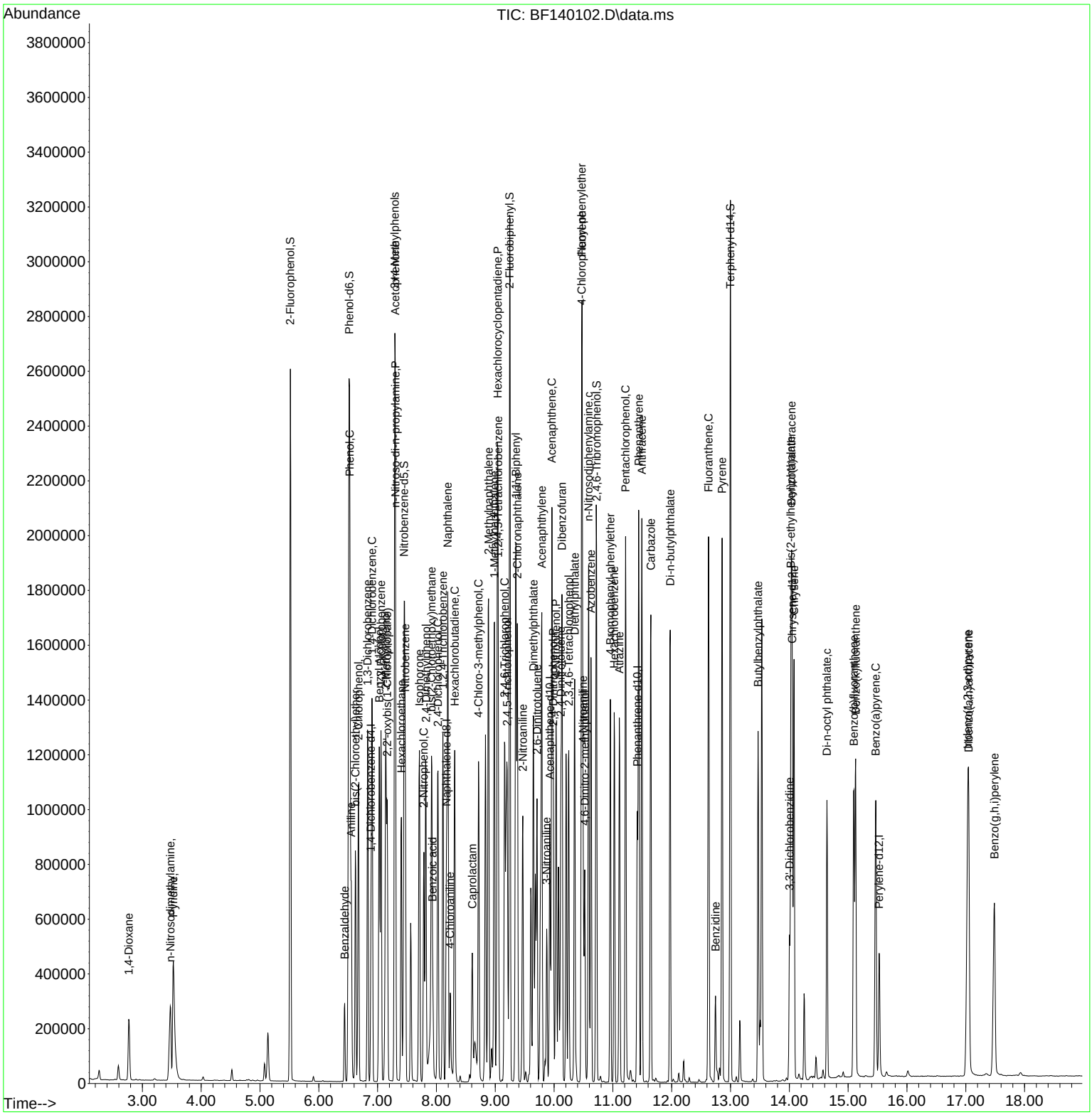
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140102.D
Acq On : 29 Oct 2024 10:33
Operator : RC/JU
Sample : PB164461BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 29 11:35:02 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

Instrument :
BNA_F
ClientSampleId :
PB164461BS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101427.D
Acq On : 31 Oct 2024 11:33
Operator : RC/JU
Sample : PB164533BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 31 14:12:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164533BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.571	152	115147	20.000	ng		0.00
21) Naphthalene-d8	10.339	136	538934	20.000	ng		0.00
39) Acenaphthene-d10	14.181	164	360623	20.000	ng		0.00
64) Phenanthrene-d10	16.919	188	814107	20.000	ng		0.00
76) Chrysene-d12	21.079	240	960075	20.000	ng		0.00
86) Perylene-d12	23.365	264	1281356	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.321	112	1009490	153.656	ng		0.00
7) Phenol-d6	6.949	99	1263770	138.728	ng		0.00
23) Nitrobenzene-d5	8.782	82	782786	91.228	ng		0.00
42) 2,4,6-Tribromophenol	15.685	330	874230	138.315	ng		0.00
45) 2-Fluorobiphenyl	12.806	172	2012690	94.519	ng		0.00
79) Terphenyl-d14	19.510	244	3621248	86.811	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.206	88	90954	37.119	ng		99
3) Pyridine	3.635	79	258700m	37.316	ng		
4) n-Nitrosodimethylamine	3.553	42	127114	47.389	ng		97
6) Aniline	7.007	93	455197	65.200	ng		99
8) 2-Chlorophenol	7.213	128	408829	51.883	ng		99
9) Benzaldehyde	6.784	77	49809	11.326	ng		98
10) Phenol	6.972	94	530175	53.639	ng		99
11) bis(2-Chloroethyl)ether	7.037	93	362684m	44.729	ng		
12) 1,3-Dichlorobenzene	7.460	146	384380	45.238	ng		98
13) 1,4-Dichlorobenzene	7.607	146	397604	45.824	ng		99
14) 1,2-Dichlorobenzene	7.936	146	387802	45.660	ng		99
15) Benzyl Alcohol	7.906	79	269521	49.634	ng		97
16) 2,2'-oxybis(1-Chloropr...	8.071	45	502340	49.229	ng		99
17) 2-Methylphenol	8.153	107	333134	49.798	ng		99
18) Hexachloroethane	8.629	117	134034	47.303	ng		96
19) n-Nitroso-di-n-propyla...	8.370	70	285079	47.159	ng		99
20) 3+4-Methylphenols	8.488	107	453395	49.099	ng		97
22) Acetophenone	8.423	105	572159	46.756	ng	#	98
24) Nitrobenzene	8.823	77	419005	45.880	ng		99
25) Isophorone	9.275	82	774226	46.239	ng		99
26) 2-Nitrophenol	9.510	139	223987	50.744	ng		98
27) 2,4-Dimethylphenol	9.628	122	335924	60.479	ng		99
28) bis(2-Chloroethoxy)met...	9.775	93	485059	47.769	ng		99
29) 2,4-Dichlorophenol	10.057	162	390825	50.861	ng		100
30) 1,2,4-Trichlorobenzene	10.186	180	377737	45.125	ng		99
31) Naphthalene	10.386	128	1257982	45.805	ng		100
32) Benzoic acid	9.880	122	167435	32.504	ng		98
33) 4-Chloroaniline	10.609	127	316552	33.147	ng		99
34) Hexachlorobutadiene	10.638	225	230319	46.483	ng		98
35) Caprolactam	11.390	113	128167m	43.513	ng		
36) 4-Chloro-3-methylphenol	11.784	107	394334	45.071	ng		99
37) 2-Methylnaphthalene	11.978	142	908509	45.916	ng		99
38) 1-Methylnaphthalene	12.207	142	856823	43.389	ng		98
40) 1,2,4,5-Tetrachloroben...	12.336	216	444363	49.085	ng		99
41) Hexachlorocyclopentadiene	12.319	237	596352	199.461	ng		100
43) 2,4,6-Trichlorophenol	12.654	196	324708	52.029	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101427.D
Acq On : 31 Oct 2024 11:33
Operator : RC/JU
Sample : PB164533BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 31 14:12:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164533BS

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.754	196	355742	49.776	ng	99
46) 1,1'-Biphenyl	13.006	154	1182884	47.877	ng	99
47) 2-Chloronaphthalene	13.053	162	923137	47.292	ng	99
48) 2-Nitroaniline	13.382	65	272113	51.800	ng	97
49) Acenaphthylene	13.911	152	1478111	51.205	ng	100
50) Dimethylphthalate	13.688	163	1213853	47.686	ng	99
51) 2,6-Dinitrotoluene	13.823	165	270879	46.092	ng	99
52) Acenaphthene	14.246	154	911505	48.358	ng	100
53) 3-Nitroaniline	14.234	138	217935	37.293	ng	97
54) 2,4-Dinitrophenol	14.369	184	343642	82.133	ng	99
55) Dibenzofuran	14.587	168	1446122	48.135	ng	99
56) 4-Nitrophenol	14.651	139	542617	101.394	ng	98
57) 2,4-Dinitrotoluene	14.604	165	393205	48.598	ng	98
58) Fluorene	15.221	166	1185528	47.171	ng	100
59) 2,3,4,6-Tetrachlorophenol	14.851	232	335333	50.783	ng	99
60) Diethylphthalate	15.016	149	1261781	47.390	ng	99
61) 4-Chlorophenyl-phenyle...	15.210	204	583149	46.759	ng	99
62) 4-Nitroaniline	15.421	138	305475	46.976	ng	99
63) Azobenzene	15.509	77	1098852	48.013	ng	99
65) 4,6-Dinitro-2-methylph...	15.345	198	230076	48.095	ng	99
66) n-Nitrosodiphenylamine	15.462	169	1064834	49.322	ng	99
67) 4-Bromophenyl-phenylether	16.097	248	405337	47.332	ng	98
68) Hexachlorobenzene	16.203	284	526190	46.877	ng	99
69) Atrazine	16.396	200	405057	61.198	ng	100
70) Pentachlorophenol	16.608	266	666674	103.180	ng	100
71) Phenanthrene	16.960	178	1937501	49.707	ng	99
72) Anthracene	17.043	178	2000720	52.567	ng	99
73) Carbazole	17.378	167	1893275	48.616	ng	99
74) Di-n-butylphthalate	17.824	149	2185822	50.984	ng	99
75) Fluoranthene	18.964	202	2314033	48.879	ng	98
77) Benzidine	19.217	184	1110760	91.158	ng	100
78) Pyrene	19.334	202	2492788	47.215	ng	98
80) Butylbenzylphthalate	20.180	149	1135545	49.061	ng	97
81) Benzo(a)anthracene	21.056	228	2702743	50.086	ng	100
82) 3,3'-Dichlorobenzidine	21.032	252	849155	40.171	ng	100
83) Chrysene	21.114	228	2590728	49.655	ng	99
84) Bis(2-ethylhexyl)phtha...	20.885	149	1621702	52.742	ng	100
85) Di-n-octyl phthalate	21.731	149	2813354	55.748	ng	100
87) Indeno(1,2,3-cd)pyrene	25.697	276	4383307	51.115	ng	100
88) Benzo(b)fluoranthene	22.654	252	3161649	47.347	ng	99
89) Benzo(k)fluoranthene	22.701	252	3180470	50.980	ng	99
90) Benzo(a)pyrene	23.259	252	3090144	52.914	ng	100
91) Dibenzo(a,h)anthracene	25.691	278	3640170	51.372	ng	99
92) Benzo(g,h,i)perylene	26.443	276	3347336	45.848	ng	100

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

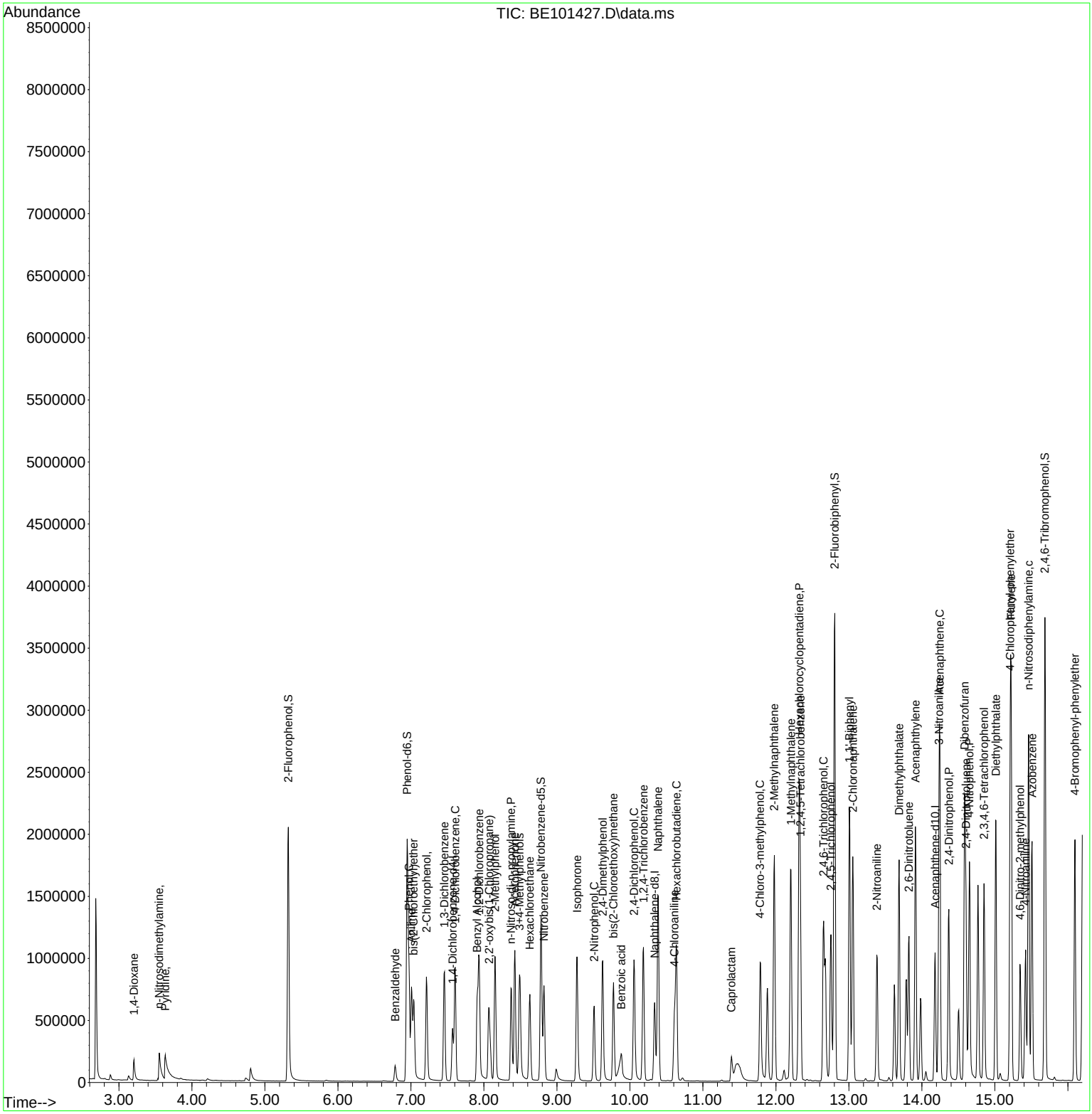
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101427.D
Acq On : 31 Oct 2024 11:33
Operator : RC/JU
Sample : PB164533BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 31 14:12:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164533BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



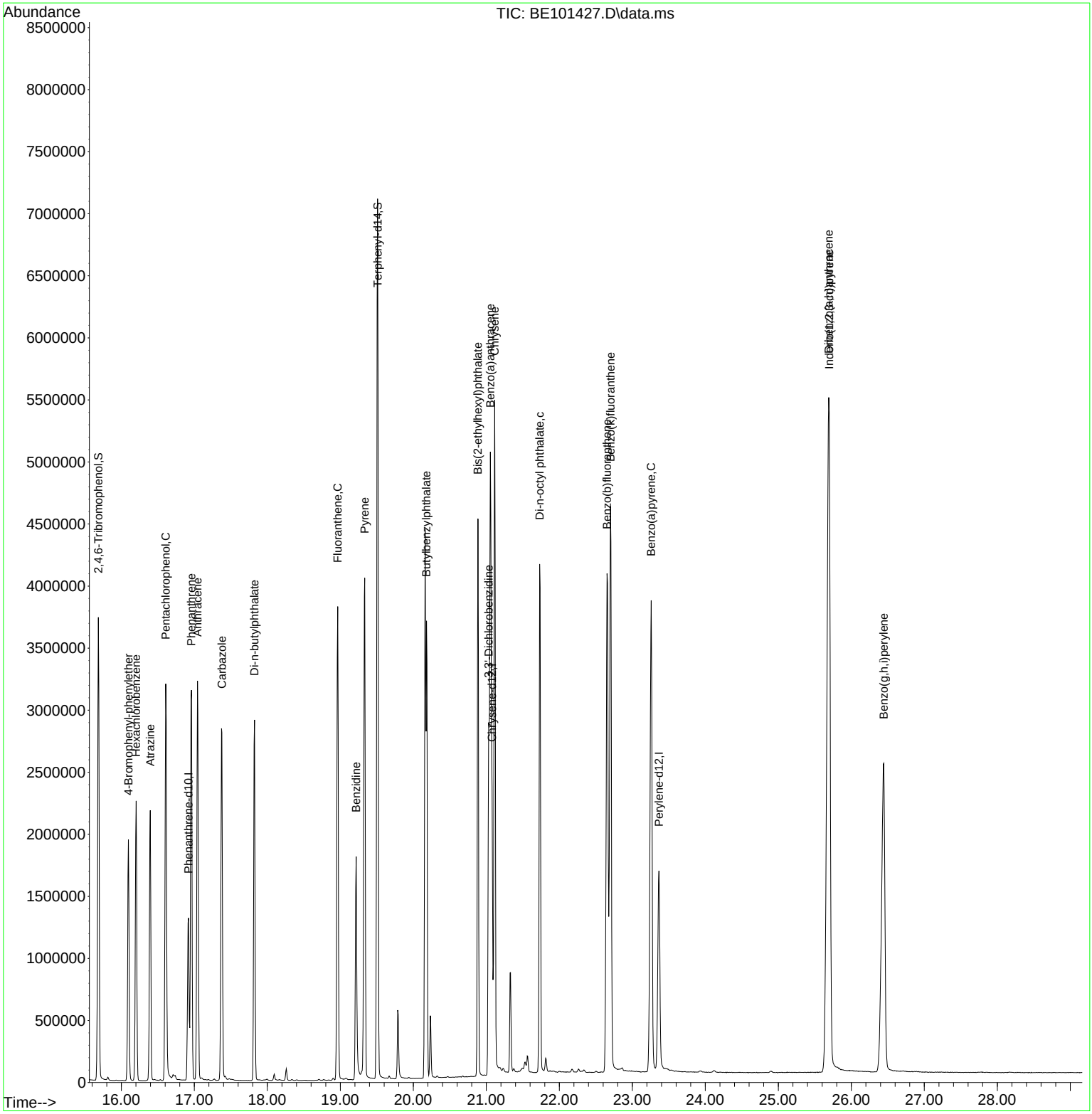
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101427.D
Acq On : 31 Oct 2024 11:33
Operator : RC/JU
Sample : PB164533BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Oct 31 14:12:37 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164533BS

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101428.D
Acq On : 31 Oct 2024 12:09
Operator : RC/JU
Sample : PB164533BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 31 14:12:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164533BSD

Manual Integrations APPROVED
Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.569	152	113034	20.000	ng		0.00
21) Naphthalene-d8	10.337	136	526465	20.000	ng		0.00
39) Acenaphthene-d10	14.179	164	360052	20.000	ng		0.00
64) Phenanthrene-d10	16.917	188	812601	20.000	ng		0.00
76) Chrysene-d12	21.077	240	969385	20.000	ng		0.00
86) Perylene-d12	23.363	264	1285878	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.319	112	994752	154.243	ng		0.00
7) Phenol-d6	6.947	99	1252408	140.050	ng		0.00
23) Nitrobenzene-d5	8.780	82	777696	92.782	ng		0.00
42) 2,4,6-Tribromophenol	15.689	330	876585	138.908	ng		0.00
45) 2-Fluorobiphenyl	12.805	172	2001748	94.154	ng		0.00
79) Terphenyl-d14	19.508	244	3640711	86.439	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.204	88	93716	38.961	ng		100
3) Pyridine	3.633	79	251245m	36.919	ng		
4) n-Nitrosodimethylamine	3.551	42	121055	45.974	ng		96
6) Aniline	7.011	93	425404	62.072	ng		99
8) 2-Chlorophenol	7.217	128	400854	51.822	ng		100
9) Benzaldehyde	6.782	77	49042	11.360	ng		96
10) Phenol	6.976	94	520219	53.615	ng		99
11) bis(2-Chloroethyl)ether	7.041	93	375829m	47.216	ng		
12) 1,3-Dichlorobenzene	7.458	146	376868	45.183	ng		99
13) 1,4-Dichlorobenzene	7.605	146	388628	45.627	ng		99
14) 1,2-Dichlorobenzene	7.934	146	379990	45.577	ng		100
15) Benzyl Alcohol	7.910	79	268752	50.418	ng		97
16) 2,2'-oxybis(1-Chloropr...	8.069	45	486821	48.600	ng		100
17) 2-Methylphenol	8.151	107	327131	49.815	ng		99
18) Hexachloroethane	8.627	117	130778	47.017	ng		99
19) n-Nitroso-di-n-propyla...	8.374	70	281786	47.485	ng		99
20) 3+4-Methylphenols	8.492	107	448794	49.509	ng		99
22) Acetophenone	8.421	105	565499	47.307	ng	#	98
24) Nitrobenzene	8.821	77	411515	46.127	ng		100
25) Isophorone	9.273	82	770364	47.098	ng		99
26) 2-Nitrophenol	9.508	139	220857	51.220	ng		100
27) 2,4-Dimethylphenol	9.626	122	333518	61.468	ng		99
28) bis(2-Chloroethoxy)met...	9.773	93	479894	48.380	ng		99
29) 2,4-Dichlorophenol	10.055	162	390029	51.960	ng		99
30) 1,2,4-Trichlorobenzene	10.184	180	367626	44.957	ng		99
31) Naphthalene	10.390	128	1230580	45.869	ng		100
32) Benzoic acid	9.884	122	183326	35.439	ng		98
33) 4-Chloroaniline	10.613	127	324797	34.816	ng		98
34) Hexachlorobutadiene	10.636	225	222189	45.905	ng		100
35) Caprolactam	11.389	113	133210m	46.296	ng		
36) 4-Chloro-3-methylphenol	11.788	107	398618	46.640	ng		99
37) 2-Methylnaphthalene	11.976	142	902361	46.686	ng		99
38) 1-Methylnaphthalene	12.205	142	849167	44.020	ng		98
40) 1,2,4,5-Tetrachloroben...	12.334	216	435778	48.213	ng		99
41) Hexachlorocyclopentadiene	12.317	237	584394	195.771	ng		97
43) 2,4,6-Trichlorophenol	12.652	196	323171	51.865	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101428.D
Acq On : 31 Oct 2024 12:09
Operator : RC/JU
Sample : PB164533BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 31 14:12:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164533BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.752	196	356904	50.018	ng	98
46) 1,1'-Biphenyl	13.010	154	1175277	47.644	ng	100
47) 2-Chloronaphthalene	13.051	162	910845	46.737	ng	99
48) 2-Nitroaniline	13.386	65	272277	51.913	ng	96
49) Acenaphthylene	13.915	152	1493689	51.827	ng	99
50) Dimethylphthalate	13.686	163	1227602	48.302	ng	100
51) 2,6-Dinitrotoluene	13.821	165	273864	46.674	ng	99
52) Acenaphthene	14.244	154	903802	48.025	ng	99
53) 3-Nitroaniline	14.232	138	216452	37.098	ng	98
54) 2,4-Dinitrophenol	14.367	184	354149	84.597	ng	98
55) Dibenzofuran	14.585	168	1444875	48.170	ng	99
56) 4-Nitrophenol	14.655	139	560174	104.840	ng	98
57) 2,4-Dinitrotoluene	14.608	165	401525	49.705	ng	96
58) Fluorene	15.225	166	1190269	47.435	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.855	232	339421	51.484	ng	100
60) Diethylphthalate	15.014	149	1264805	47.579	ng	99
61) 4-Chlorophenyl-phenyle...	15.213	204	586167	47.075	ng	98
62) 4-Nitroaniline	15.419	138	306026	47.135	ng	99
63) Azobenzene	15.507	77	1109474	48.554	ng	99
65) 4,6-Dinitro-2-methylph...	15.349	198	235548	49.330	ng	99
66) n-Nitrosodiphenylamine	15.460	169	1070275	49.666	ng	100
67) 4-Bromophenyl-phenylether	16.095	248	407578	47.682	ng	99
68) Hexachlorobenzene	16.201	284	525219	46.877	ng	100
69) Atrazine	16.394	200	405310	61.350	ng	99
70) Pentachlorophenol	16.612	266	679935	105.427	ng	100
71) Phenanthrene	16.958	178	1946192	50.022	ng	99
72) Anthracene	17.047	178	2009903	52.906	ng	99
73) Carbazole	17.376	167	1907689	49.077	ng	99
74) Di-n-butylphthalate	17.822	149	2204042	51.505	ng	99
75) Fluoranthene	18.962	202	2305436	48.787	ng	99
77) Benzidine	19.215	184	1168127	94.946	ng	100
78) Pyrene	19.332	202	2476632	46.458	ng	99
80) Butylbenzylphthalate	20.184	149	1155552	49.446	ng	100
81) Benzo(a)anthracene	21.054	228	2718986	49.903	ng	99
82) 3,3'-Dichlorobenzidine	21.036	252	868485	40.690	ng	99
83) Chrysene	21.112	228	2584025	49.051	ng	99
84) Bis(2-ethylhexyl)phtha...	20.883	149	1640604	52.845	ng	100
85) Di-n-octyl phthalate	21.735	149	2812776	55.201	ng	100
87) Indeno(1,2,3-cd)pyrene	25.695	276	4395609	51.078	ng	100
88) Benzo(b)fluoranthene	22.658	252	3130767	46.720	ng	99
89) Benzo(k)fluoranthene	22.705	252	3200047	51.114	ng	98
90) Benzo(a)pyrene	23.257	252	3077320	52.509	ng	99
91) Dibenzo(a,h)anthracene	25.689	278	3625997	50.992	ng	99
92) Benzo(g,h,i)perylene	26.441	276	3342524	45.621	ng	100

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

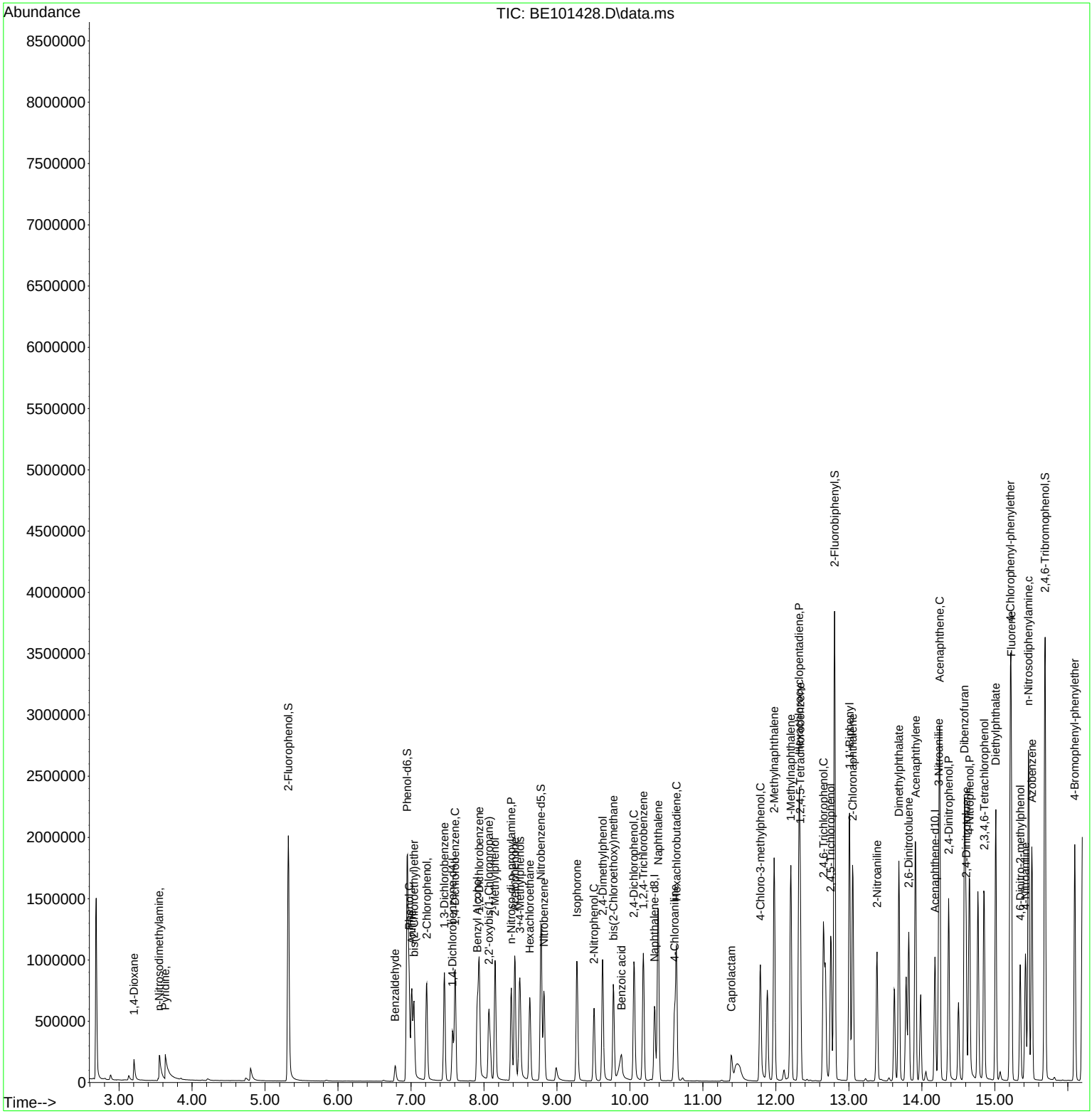
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101428.D
Acq On : 31 Oct 2024 12:09
Operator : RC/JU
Sample : PB164533BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 31 14:12:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164533BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



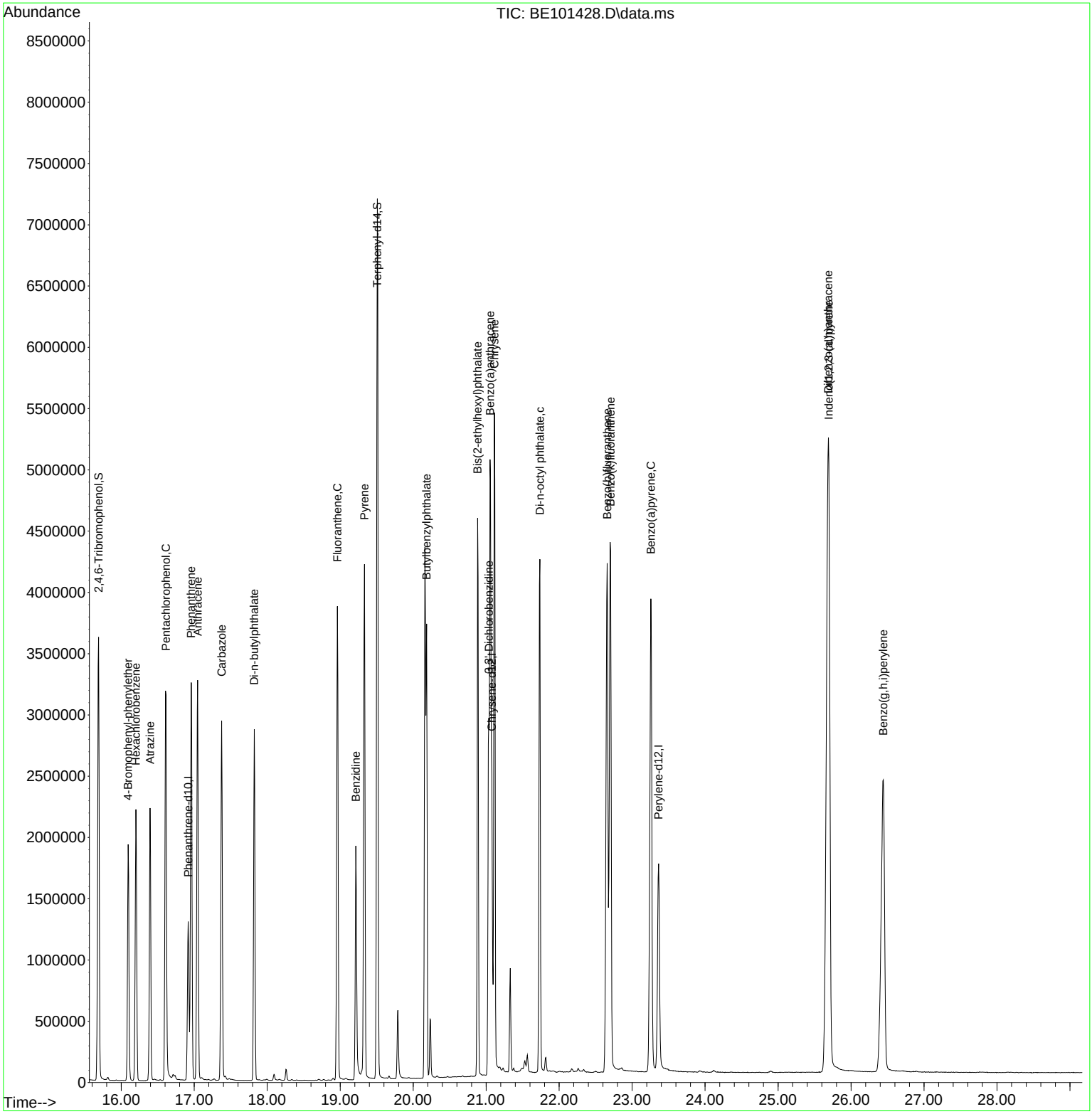
Data Path : Z:\svoasrv\HPCHEM1\BNA_E\Data\BE103124\
Data File : BE101428.D
Acq On : 31 Oct 2024 12:09
Operator : RC/JU
Sample : PB164533BSD
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Oct 31 14:12:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_E\Methods\8270-BE102824.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Oct 29 01:26:30 2024
Response via : Initial Calibration

Instrument :
BNA_E
ClientSampleId :
PB164533BSD

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 11/04/2024
Supervised By :mohammad ahmed 11/04/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140105.D
Acq On : 29 Oct 2024 12:02
Operator : RC/JU
Sample : P4561-05MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 29 12:37:16 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

Instrument :
BNA_F
ClientSampleId :
BP-F-18MS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	119078	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	468695	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	258838	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	443678	20.000	ng		0.00
76) Chrysene-d12	14.051	240	213800	20.000	ng		0.00
86) Perylene-d12	15.527	264	269959	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	663296	87.202	ng		0.01
7) Phenol-d6	6.516	99	889612	90.302	ng		0.00
23) Nitrobenzene-d5	7.451	82	564781	66.786	ng		0.00
42) 2,4,6-Tribromophenol	10.716	330	252807	104.419	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1028299	65.658	ng		0.00
79) Terphenyl-d14	12.992	244	869424	66.263	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.752	88	135326	38.158	ng		98
3) Pyridine	3.510	79	350246	39.843	ng		99
4) n-Nitrosodimethylamine	3.463	42	196737	41.655	ng	#	98
6) Aniline	6.551	93	287445	31.307	ng		99
8) 2-Chlorophenol	6.675	128	367128	47.212	ng		98
9) Benzaldehyde	6.440	77	68731	12.402	ng		98
10) Phenol	6.528	94	475437m	46.811	ng		
11) bis(2-Chloroethyl)ether	6.622	93	364756	46.464	ng		99
12) 1,3-Dichlorobenzene	6.834	146	397732	44.557	ng		99
13) 1,4-Dichlorobenzene	6.910	146	401159	44.983	ng		99
14) 1,2-Dichlorobenzene	7.057	146	386184	46.399	ng		98
15) Benzyl Alcohol	7.028	79	344664	47.694	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	607117	45.356	ng		98
17) 2-Methylphenol	7.140	107	307900	46.436	ng		98
18) Hexachloroethane	7.404	117	148095	46.569	ng		96
19) n-Nitroso-di-n-propyla...	7.298	70	276260	46.236	ng		97
20) 3+4-Methylphenols	7.287	107	381132	44.939	ng	#	90
22) Acetophenone	7.298	105	506664	44.135	ng		99
24) Nitrobenzene	7.469	77	414883	44.747	ng		100
25) Isophorone	7.710	82	741496	46.197	ng		99
26) 2-Nitrophenol	7.787	139	192444	55.018	ng		98
27) 2,4-Dimethylphenol	7.816	122	306717	52.588	ng		97
28) bis(2-Chloroethoxy)met...	7.916	93	441117	45.361	ng		100
29) 2,4-Dichlorophenol	8.028	162	306470	46.132	ng		99
30) 1,2,4-Trichlorobenzene	8.110	180	322636	43.891	ng		99
31) Naphthalene	8.192	128	1073825	44.423	ng		100
32) Benzoic acid	7.934	122	236255	46.443	ng		99
33) 4-Chloroaniline	8.239	127	98478	11.948	ng		98
34) Hexachlorobutadiene	8.310	225	209194	45.293	ng		99
35) Caprolactam	8.610	113	100372m	47.517	ng		
36) 4-Chloro-3-methylphenol	8.716	107	345453	46.962	ng		100
37) 2-Methylnaphthalene	8.886	142	681541	46.037	ng		100
38) 1-Methylnaphthalene	8.981	142	635082	43.725	ng		100
40) 1,2,4,5-Tetrachloroben...	9.051	216	325431	46.603	ng		99
41) Hexachlorocyclopentadiene	9.039	237	407976	167.908	ng		99
43) 2,4,6-Trichlorophenol	9.157	196	233871	47.305	ng		100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140105.D
Acq On : 29 Oct 2024 12:02
Operator : RC/JU
Sample : P4561-05MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 29 12:37:16 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

Instrument :
BNA_F
ClientSampleId :
BP-F-18MS

Manual Integrations APPROVED
Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	238739	46.804	ng		98
46) 1,1'-Biphenyl	9.345	154	821944	45.616	ng		100
47) 2-Chloronaphthalene	9.375	162	655768	45.186	ng		99
48) 2-Nitroaniline	9.469	65	227765	51.314	ng		95
49) Acenaphthylene	9.792	152	1023418	48.778	ng		100
50) Dimethylphthalate	9.651	163	775588	48.106	ng		100
51) 2,6-Dinitrotoluene	9.710	165	169010	48.415	ng		98
52) Acenaphthene	9.963	154	717149	52.838	ng		99
53) 3-Nitroaniline	9.875	138	93290	25.915	ng		100
54) 2,4-Dinitrophenol	9.986	184	201945	134.403	ng	#	1
55) Dibenzofuran	10.133	168	904160	46.431	ng		100
56) 4-Nitrophenol	10.033	139	272837	98.511	ng		95
57) 2,4-Dinitrotoluene	10.116	165	227892	53.087	ng		98
58) Fluorene	10.475	166	681871	45.973	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.251	232	194795m	48.715	ng		
60) Diethylphthalate	10.345	149	750506	47.411	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	348259	46.495	ng		99
62) 4-Nitroaniline	10.492	138	163027	47.949	ng		97
63) Azobenzene	10.628	77	893808	53.259	ng		95
65) 4,6-Dinitro-2-methylph...	10.522	198	131332	72.569	ng		93
66) n-Nitrosodiphenylamine	10.586	169	632125	47.603	ng		100
67) 4-Bromophenyl-phenylether	10.957	248	221899	48.548	ng		97
68) Hexachlorobenzene	11.022	284	242705	47.214	ng		99
69) Atrazine	11.110	200	200780	55.817	ng		99
70) Pentachlorophenol	11.216	266	289848	92.905	ng		99
71) Phenanthrene	11.439	178	973007	46.428	ng		100
72) Anthracene	11.492	178	987770	48.307	ng		100
73) Carbazole	11.645	167	822131	43.231	ng		99
74) Di-n-butylphthalate	11.969	149	1066878	48.558	ng		100
75) Fluoranthene	12.627	202	852694	40.247	ng		100
77) Benzidine	12.745	184	177069	50.367	ng		99
78) Pyrene	12.857	202	842496	45.018	ng		99
80) Butylbenzylphthalate	13.469	149	318277	56.727	ng		100
81) Benzo(a)anthracene	14.039	228	646882	46.479	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	121036	29.827	ng		97
83) Chrysene	14.080	228	628880	49.282	ng		100
84) Bis(2-ethylhexyl)phtha...	14.027	149	397598	63.162	ng		100
85) Di-n-octyl phthalate	14.639	149	654252	57.142	ng		97
87) Indeno(1,2,3-cd)pyrene	17.027	276	740606	42.644	ng		98
88) Benzo(b)fluoranthene	15.098	252	726493	44.178	ng		99
89) Benzo(k)fluoranthene	15.127	252	663067	46.753	ng		99
90) Benzo(a)pyrene	15.468	252	681796	50.387	ng		100
91) Dibenzo(a,h)anthracene	17.045	278	619598	42.766	ng		99
92) Benzo(g,h,i)perylene	17.480	276	514347	35.542	ng		99

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

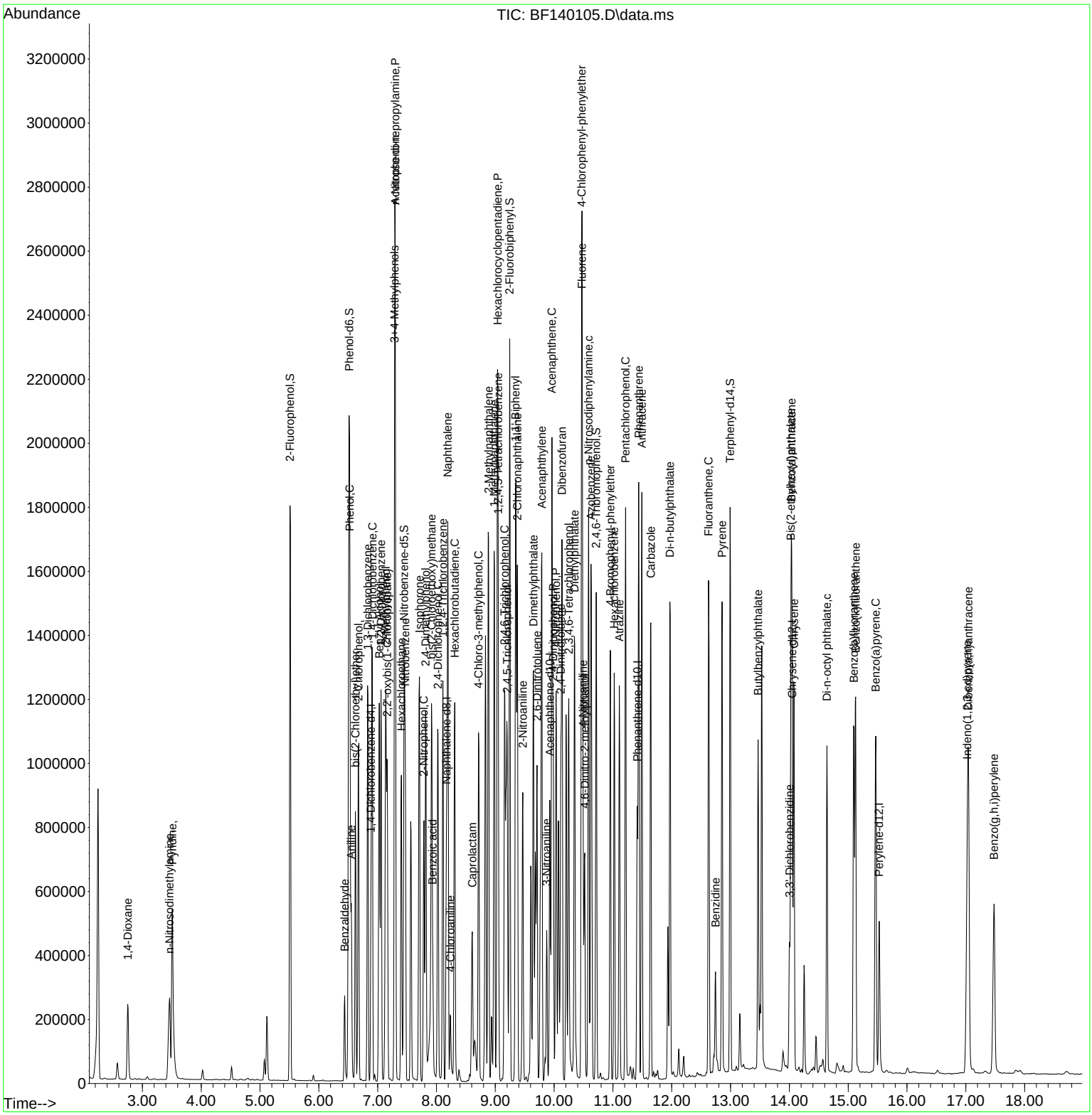
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140105.D
Acq On : 29 Oct 2024 12:02
Operator : RC/JU
Sample : P4561-05MS
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Oct 29 12:37:16 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

Instrument :
BNA_F
ClientSampleId :
BP-F-18MS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140106.D
Acq On : 29 Oct 2024 12:30
Operator : RC/JU
Sample : P4561-05MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 29 12:59:43 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

Instrument :
BNA_F
ClientSampleId :
BP-F-18MSD

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.892	152	121800	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	465155	20.000	ng		0.00
39) Acenaphthene-d10	9.927	164	256664	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	439821	20.000	ng		0.00
76) Chrysene-d12	14.051	240	211408	20.000	ng		0.00
86) Perylene-d12	15.527	264	270997	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	656615	84.394	ng		0.01
7) Phenol-d6	6.516	99	877396	87.071	ng		0.00
23) Nitrobenzene-d5	7.451	82	559285	66.639	ng		0.00
42) 2,4,6-Tribromophenol	10.716	330	247838	103.233	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1005847	64.768	ng		0.00
79) Terphenyl-d14	12.992	244	839676	64.720	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.751	88	134597	37.104	ng		98
3) Pyridine	3.504	79	353874	39.356	ng		99
4) n-Nitrosodimethylamine	3.463	42	191536	39.648	ng	#	98
6) Aniline	6.551	93	290433	30.926	ng		99
8) 2-Chlorophenol	6.675	128	362464	45.571	ng		98
9) Benzaldehyde	6.439	77	66947	11.810	ng		96
10) Phenol	6.528	94	473946m	45.621	ng		
11) bis(2-Chloroethyl)ether	6.622	93	359328	44.750	ng		99
12) 1,3-Dichlorobenzene	6.834	146	391824	42.914	ng		99
13) 1,4-Dichlorobenzene	6.910	146	398892	43.729	ng		99
14) 1,2-Dichlorobenzene	7.057	146	382664	44.949	ng		99
15) Benzyl Alcohol	7.028	79	340430	46.056	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	602557	44.009	ng		98
17) 2-Methylphenol	7.139	107	305111	44.987	ng		98
18) Hexachloroethane	7.404	117	146986	45.187	ng		97
19) n-Nitroso-di-n-propyla...	7.298	70	268245	43.892	ng		98
20) 3+4-Methylphenols	7.286	107	371349	42.807	ng	#	90
22) Acetophenone	7.298	105	503721	44.213	ng		98
24) Nitrobenzene	7.469	77	412447	44.823	ng		100
25) Isophorone	7.710	82	733519	46.048	ng		99
26) 2-Nitrophenol	7.786	139	192422	55.431	ng		98
27) 2,4-Dimethylphenol	7.822	122	300404	51.898	ng		98
28) bis(2-Chloroethoxy)met...	7.916	93	436527	45.231	ng		99
29) 2,4-Dichlorophenol	8.028	162	305647	46.359	ng		99
30) 1,2,4-Trichlorobenzene	8.110	180	320744	43.966	ng		100
31) Naphthalene	8.192	128	1061785	44.260	ng		100
32) Benzoic acid	7.933	122	231719	45.898	ng		98
33) 4-Chloroaniline	8.239	127	93330	11.409	ng		98
34) Hexachlorobutadiene	8.310	225	206714	45.097	ng		99
35) Caprolactam	8.610	113	98336m	46.907	ng		
36) 4-Chloro-3-methylphenol	8.716	107	338753	46.402	ng		100
37) 2-Methylnaphthalene	8.886	142	676008	46.011	ng		100
38) 1-Methylnaphthalene	8.980	142	625170	43.370	ng		99
40) 1,2,4,5-Tetrachloroben...	9.051	216	319152	46.091	ng		99
41) Hexachlorocyclopentadiene	9.039	237	386142	160.268	ng		98
43) 2,4,6-Trichlorophenol	9.157	196	232567	47.439	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140106.D
Acq On : 29 Oct 2024 12:30
Operator : RC/JU
Sample : P4561-05MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 29 12:59:43 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

Instrument :
BNA_F
ClientSampleId :
BP-F-18MSD

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.204	196	235734	46.607	ng		98
46) 1,1'-Biphenyl	9.345	154	815178	45.623	ng		99
47) 2-Chloronaphthalene	9.375	162	649391	45.126	ng		99
48) 2-Nitroaniline	9.469	65	224758	51.066	ng		95
49) Acenaphthylene	9.792	152	1010496	48.570	ng		99
50) Dimethylphthalate	9.645	163	763825	47.778	ng		100
51) 2,6-Dinitrotoluene	9.710	165	167332	48.341	ng		98
52) Acenaphthene	9.963	154	711175	52.842	ng		100
53) 3-Nitroaniline	9.874	138	91124	25.527	ng		97
54) 2,4-Dinitrophenol	9.986	184	196382	131.934	ng	#	1
55) Dibenzofuran	10.133	168	885829	45.875	ng		100
56) 4-Nitrophenol	10.033	139	269111	97.989	ng		97
57) 2,4-Dinitrotoluene	10.116	165	226623	53.238	ng		98
58) Fluorene	10.474	166	674927	45.890	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.251	232	191597	48.321	ng		98
60) Diethylphthalate	10.345	149	735614	46.863	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	346171	46.608	ng		99
62) 4-Nitroaniline	10.492	138	156655	46.466	ng		98
63) Azobenzene	10.627	77	871386	52.363	ng		95
65) 4,6-Dinitro-2-methylph...	10.522	198	127360	70.992	ng		92
66) n-Nitrosodiphenylamine	10.586	169	620045	47.103	ng		100
67) 4-Bromophenyl-phenylether	10.957	248	217392	47.979	ng		98
68) Hexachlorobenzene	11.021	284	237439	46.595	ng		99
69) Atrazine	11.110	200	196449	55.092	ng		100
70) Pentachlorophenol	11.216	266	281948	91.166	ng		99
71) Phenanthrene	11.439	178	943324	45.406	ng		100
72) Anthracene	11.492	178	974760	48.088	ng		100
73) Carbazole	11.645	167	808719	42.899	ng		99
74) Di-n-butylphthalate	11.974	149	1041388	47.814	ng		99
75) Fluoranthene	12.627	202	838403	39.920	ng		100
77) Benzidine	12.745	184	181236	52.135	ng		99
78) Pyrene	12.857	202	811499	43.852	ng		100
80) Butylbenzylphthalate	13.468	149	308600	55.625	ng		100
81) Benzo(a)anthracene	14.039	228	635224	46.158	ng		99
82) 3,3'-Dichlorobenzidine	14.004	252	126129	31.434	ng		99
83) Chrysene	14.080	228	619134	49.067	ng		100
84) Bis(2-ethylhexyl)phtha...	14.027	149	381465	61.285	ng		100
85) Di-n-octyl phthalate	14.639	149	647308	57.175	ng		97
87) Indeno(1,2,3-cd)pyrene	17.027	276	726495	41.671	ng		99
88) Benzo(b)fluoranthene	15.098	252	721940	43.733	ng		99
89) Benzo(k)fluoranthene	15.127	252	658679	46.266	ng		100
90) Benzo(a)pyrene	15.468	252	684055	50.360	ng		99
91) Dibenzo(a,h)anthracene	17.045	278	606275	41.686	ng		99
92) Benzo(g,h,i)perylene	17.480	276	507958	34.966	ng		98

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

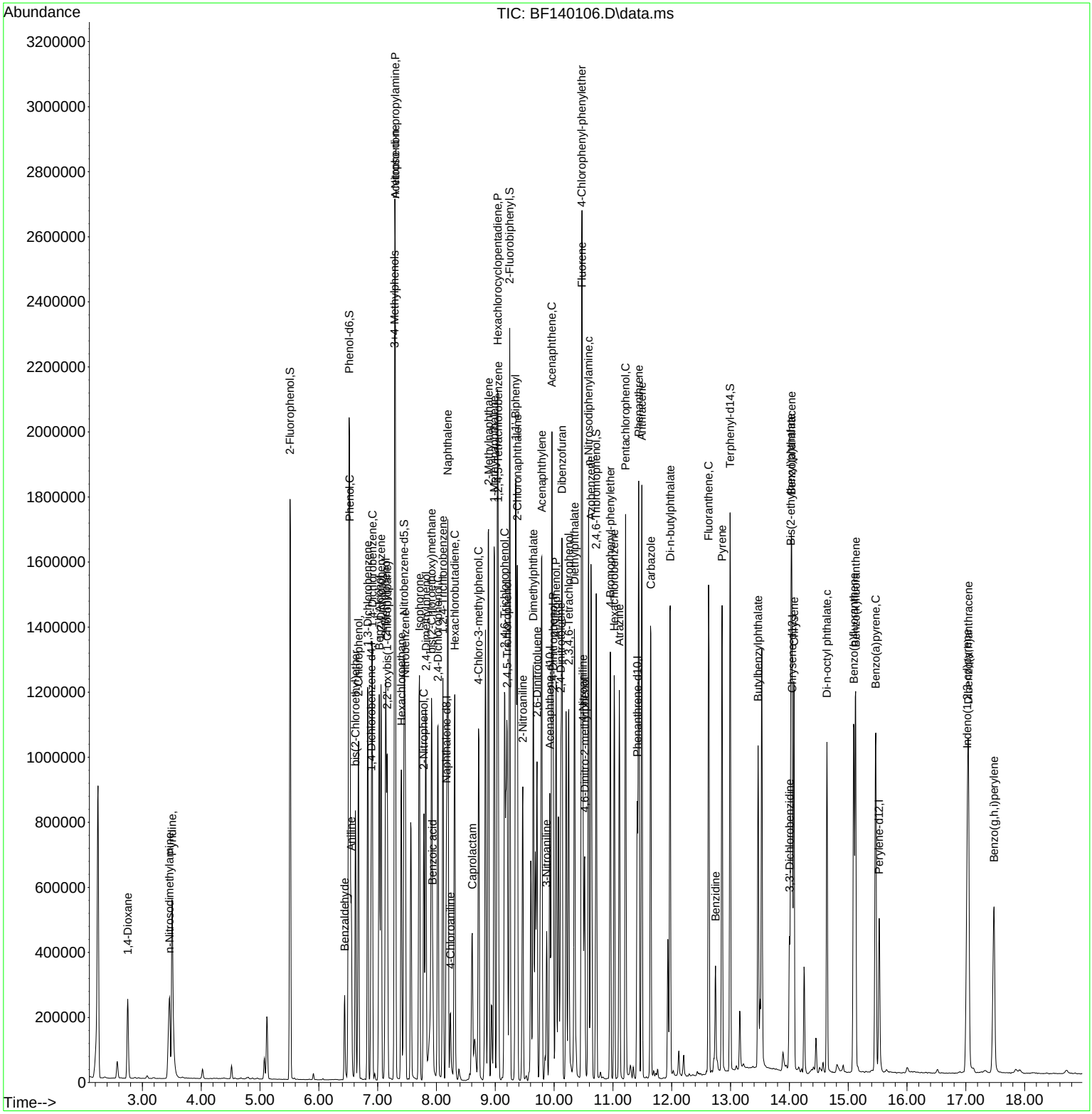
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF102924\
Data File : BF140106.D
Acq On : 29 Oct 2024 12:30
Operator : RC/JU
Sample : P4561-05MSD
Misc :
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Oct 29 12:59:43 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

Instrument :
BNA_F
ClientSampleId :
BP-F-18MSD

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 10/30/2024
Supervised By :mohammad ahmed 11/04/2024



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

Manual Integration Report

Sequence:	BE102824	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BE101390.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC005	BE101390.D	Caprolactam	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC005	BE101390.D	n-Nitrosodimethylamine	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC005	BE101390.D	Pyridine	yogesh	10/29/2024 4:56:49 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	Benzoic acid	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	Caprolactam	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	n-Nitrosodimethylamine	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC010	BE101391.D	Pyridine	yogesh	10/29/2024 4:56:53 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC020	BE101392.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:56:57 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC020	BE101392.D	Pyridine	yogesh	10/29/2024 4:56:57 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICCC040	BE101393.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:57:01 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICCC040	BE101393.D	Pyridine	yogesh	10/29/2024 4:57:01 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BE102824	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC050	BE101394.D	Caprolactam	yogesh	10/29/2024 4:57:05 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC050	BE101394.D	Pyridine	yogesh	10/29/2024 4:57:05 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC060	BE101395.D	Benzo(k)fluoranthene	yogesh	10/29/2024 4:57:10 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC060	BE101395.D	Caprolactam	yogesh	10/29/2024 4:57:10 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC060	BE101395.D	Pyridine	yogesh	10/29/2024 4:57:10 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	Aniline	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	bis(2-Chloroethyl)ether	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	Caprolactam	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICC080	BE101396.D	Pyridine	yogesh	10/29/2024 4:57:15 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICV040	BE101397.D	Aniline	yogesh	10/29/2024 4:57:19 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software
SSTDICV040	BE101397.D	Pyridine	yogesh	10/29/2024 4:57:19 AM	mohammad	10/30/2024 2:48:38 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	BE103124	Instrument	BNA_e

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BE101425.D	Aniline	yogesh	11/4/2024 1:41:56 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
SSTDCCC040	BE101425.D	Caprolactam	yogesh	11/4/2024 1:41:56 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
SSTDCCC040	BE101425.D	Pyridine	yogesh	11/4/2024 1:41:56 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
PB164533BS	BE101427.D	bis(2-Chloroethyl)ether	yogesh	11/4/2024 1:41:57 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
PB164533BS	BE101427.D	Caprolactam	yogesh	11/4/2024 1:41:57 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
PB164533BS	BE101427.D	Pyridine	yogesh	11/4/2024 1:41:57 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
PB164533BSD	BE101428.D	bis(2-Chloroethyl)ether	yogesh	11/4/2024 1:41:59 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
PB164533BSD	BE101428.D	Caprolactam	yogesh	11/4/2024 1:41:59 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software
PB164533BSD	BE101428.D	Pyridine	yogesh	11/4/2024 1:41:59 AM	mohammad	11/4/2024 1:50:57 AM	Peak Integrated by Software

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

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

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

Manual Integration Report

Sequence:	BF102924	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140100.D	Phenol	Jagrut	10/30/2024 10:56:50 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
PB164461BS	BF140102.D	Caprolactam	Jagrut	10/30/2024 10:56:54 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
PB164461BS	BF140102.D	Phenol	Jagrut	10/30/2024 10:56:54 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
P4561-05MS	BF140105.D	2,3,4,6-Tetrachlorophenol	Jagrut	10/30/2024 10:56:57 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
P4561-05MS	BF140105.D	Caprolactam	Jagrut	10/30/2024 10:56:57 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
P4561-05MS	BF140105.D	Phenol	Jagrut	10/30/2024 10:56:57 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
P4561-05MSD	BF140106.D	Caprolactam	Jagrut	10/30/2024 10:56:59 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
P4561-05MSD	BF140106.D	Phenol	Jagrut	10/30/2024 10:56:59 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
SSTDCCC040	BF140113.D	Phenol	Jagrut	10/30/2024 10:57:02 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
P4578-04	BF140125.D	Benzo(a)anthracene	Jagrut	10/30/2024 10:57:17 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
SSTDCCC040	BF140133.D	Benzoic acid	Jagrut	10/30/2024 10:57:20 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software
SSTDCCC040	BF140133.D	Phenol	Jagrut	10/30/2024 10:57:20 AM	mohammad	11/4/2024 1:49:36 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF102924	Instrument	BNA_f

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

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

Manual Integration Report

Sequence:	BF103024	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140152.D	Phenol	yogesh	11/4/2024 1:33:24 AM	mohammad	11/4/2024 1:50:01 AM	Peak Integrated by Software
P4578-03	BF140156.D	Benzo(b)fluoranthene	yogesh	11/4/2024 1:33:27 AM	mohammad	11/4/2024 1:50:01 AM	Peak Integrated by Software
P4578-03	BF140156.D	Benzo(k)fluoranthene	yogesh	11/4/2024 1:33:27 AM	mohammad	11/4/2024 1:50:01 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bf103124	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140176.D	Benzo(b)fluoranthene	yogesh	11/4/2024 1:41:10 AM	mohammad	11/4/2024 1:50:49 AM	Peak Integrated by Software
SSTDCCC040	BF140176.D	Phenol	yogesh	11/4/2024 1:41:10 AM	mohammad	11/4/2024 1:50:49 AM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BF110124	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF140200.D	Phenol	yogesh	11/4/2024 1:46:27 AM	mohammad	11/4/2024 1:51:22 AM	Peak Integrated by Software

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

Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE102824

Review By	yogesh	Review On	10/29/2024 4:57:44 AM		
Supervise By	mohammad	Supervise On	10/30/2024 2:48:38 AM		
SubDirectory	BE102824	HP Acquire Method	BNA_E	HP Processing Method	be102824

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	BE101388.D	28 Oct 2024 10:51	RC/JU	Ok
2	SSTDICC2.5	BE101389.D	28 Oct 2024 11:44	RC/JU	Ok
3	SSTDICC005	BE101390.D	28 Oct 2024 12:23	RC/JU	Ok,M
4	SSTDICC010	BE101391.D	28 Oct 2024 12:59	RC/JU	Ok,M
5	SSTDICC020	BE101392.D	28 Oct 2024 13:35	RC/JU	Ok,M
6	SSTDICCC040	BE101393.D	28 Oct 2024 14:11	RC/JU	Ok,M
7	SSTDICC050	BE101394.D	28 Oct 2024 14:49	RC/JU	Ok,M
8	SSTDICC060	BE101395.D	28 Oct 2024 15:25	RC/JU	Ok,M
9	SSTDICC080	BE101396.D	28 Oct 2024 16:01	RC/JU	Ok,M
10	SSTDICV040	BE101397.D	28 Oct 2024 16:37	RC/JU	Ok,M
11	PB164444BL	BE101398.D	28 Oct 2024 17:16	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE103124

Review By	yogesh	Review On	11/4/2024 1:42:16 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:50:57 AM		
SubDirectory	BE103124	HP Acquire Method	BNA_E	HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BE101424.D	31 Oct 2024 9:40	RC/JU	Ok
2	SSTDCCC040	BE101425.D	31 Oct 2024 10:18	RC/JU	Ok,M
3	PB164533BL	BE101426.D	31 Oct 2024 10:57	RC/JU	Ok
4	PB164533BS	BE101427.D	31 Oct 2024 11:33	RC/JU	Ok,M
5	PB164533BSD	BE101428.D	31 Oct 2024 12:09	RC/JU	Ok,M
6	P4616-08	BE101429.D	31 Oct 2024 12:51	RC/JU	Ok
7	P4616-01	BE101430.D	31 Oct 2024 13:26	RC/JU	Ok
8	P4616-01MS	BE101431.D	31 Oct 2024 14:02	RC/JU	Not Ok
9	P4616-01MSD	BE101432.D	31 Oct 2024 14:38	RC/JU	Not Ok
10	P4578-02	BE101433.D	31 Oct 2024 15:14	RC/JU	ReRun
11	P4639-03	BE101434.D	31 Oct 2024 15:50	RC/JU	Ok
12	P4640-01	BE101435.D	31 Oct 2024 16:25	RC/JU	Ok,M
13	P4640-01MS	BE101436.D	31 Oct 2024 17:01	RC/JU	Ok,M
14	P4640-01MSD	BE101437.D	31 Oct 2024 17:37	RC/JU	Ok,M
15	P4598-09	BE101438.D	31 Oct 2024 18:13	RC/JU	Ok
16	P4594-01	BE101439.D	31 Oct 2024 18:49	RC/JU	Ok
17	P4611-07	BE101440.D	31 Oct 2024 19:24	RC/JU	Ok,M
18	P4618-01	BE101441.D	31 Oct 2024 20:00	RC/JU	Ok
19	P4595-01	BE101442.D	31 Oct 2024 20:36	RC/JU	Ok

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 # 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

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102924

Review By	Jagrut	Review On	10/30/2024 10:58:28 AM				
Supervise By	mohammad	Supervise On	11/4/2024 1:49:36 AM				
SubDirectory	BF102924	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	BF140099.D	29 Oct 2024 09:09	RC/JU	Ok
2	SSTDCCC040	BF140100.D	29 Oct 2024 09:37	RC/JU	Ok,M
3	PB164461BL	BF140101.D	29 Oct 2024 10:05	RC/JU	Ok
4	PB164461BS	BF140102.D	29 Oct 2024 10:33	RC/JU	Ok,M
5	P4495-12	BF140103.D	29 Oct 2024 11:01	RC/JU	Ok
6	P4561-05	BF140104.D	29 Oct 2024 11:34	RC/JU	Ok
7	P4561-05MS	BF140105.D	29 Oct 2024 12:02	RC/JU	Ok,M
8	P4561-05MSD	BF140106.D	29 Oct 2024 12:30	RC/JU	Ok,M
9	P4574-07	BF140107.D	29 Oct 2024 12:58	RC/JU	Ok
10	P4574-09	BF140108.D	29 Oct 2024 13:24	RC/JU	Ok
11	P4574-11	BF140109.D	29 Oct 2024 13:50	RC/JU	Ok
12	P4578-05	BF140110.D	29 Oct 2024 14:16	RC/JU	Ok
13	P4578-07	BF140111.D	29 Oct 2024 14:42	RC/JU	Ok
14	DFTPP	BF140112.D	29 Oct 2024 15:35	RC/JU	Ok
15	SSTDCCC040	BF140113.D	29 Oct 2024 16:01	RC/JU	Ok,M
16	PB164497BL	BF140114.D	29 Oct 2024 16:26	RC/JU	Ok
17	PB164497BS	BF140115.D	29 Oct 2024 16:52	RC/JU	Ok,M
18	P4594-05	BF140116.D	29 Oct 2024 17:18	RC/JU	Ok
19	P4594-05MS	BF140117.D	29 Oct 2024 17:45	RC/JU	Ok,M
20	P4594-05MSD	BF140118.D	29 Oct 2024 18:11	RC/JU	Ok,M
21	P4597-07	BF140119.D	29 Oct 2024 18:37	RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102924

Review By	Jagrut	Review On	10/30/2024 10:58:28 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:49:36 AM		
SubDirectory	BF102924	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	P4594-17	BF140120.D	29 Oct 2024 19:03	RC/JU	Ok
23	P4598-05	BF140121.D	29 Oct 2024 19:29	RC/JU	Ok
24	P4567-05	BF140122.D	29 Oct 2024 19:55	RC/JU	Ok
25	P4597-01	BF140123.D	29 Oct 2024 20:21	RC/JU	Ok,M
26	P4574-01	BF140124.D	29 Oct 2024 20:47	RC/JU	Ok
27	P4578-04	BF140125.D	29 Oct 2024 21:13	RC/JU	Ok,M
28	P4561-01	BF140126.D	29 Oct 2024 21:39	RC/JU	Ok
29	P4567-09	BF140127.D	29 Oct 2024 22:05	RC/JU	Ok
30	P4598-01	BF140128.D	29 Oct 2024 22:31	RC/JU	Ok
31	P4597-04	BF140129.D	29 Oct 2024 22:57	RC/JU	Ok
32	P4597-10	BF140130.D	29 Oct 2024 23:24	RC/JU	Ok
33	P4594-13	BF140131.D	29 Oct 2024 23:49	RC/JU	Ok
34	DFTPP	BF140132.D	30 Oct 2024 00:41	RC/JU	Ok
35	SSTDCCC040	BF140133.D	30 Oct 2024 01:11	RC/JU	Ok,M
36	PB164500BL	BF140134.D	30 Oct 2024 02:04	RC/JU	Ok
37	PB164478TB	BF140135.D	30 Oct 2024 02:30	RC/JU	Ok
38	PB164500BS	BF140136.D	30 Oct 2024 02:56	RC/JU	Ok,M
39	P4597-03	BF140137.D	30 Oct 2024 03:22	RC/JU	Ok
40	P4597-06	BF140138.D	30 Oct 2024 03:48	RC/JU	Ok
41	P4594-04	BF140139.D	30 Oct 2024 04:14	RC/JU	Ok
42	P4594-04MS	BF140140.D	30 Oct 2024 04:40	RC/JU	Ok,M
43	P4594-04MSD	BF140141.D	30 Oct 2024 05:06	RC/JU	Ok,M
44	P4594-08	BF140142.D	30 Oct 2024 05:32	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102924

Review By	Jagrut	Review On	10/30/2024 10:58:28 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:49:36 AM		
SubDirectory	BF102924	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	

45	P4594-12	BF140143.D	30 Oct 2024 05:58	RC/JU	Ok
46	P4594-16	BF140144.D	30 Oct 2024 06:24	RC/JU	Ok
47	P4594-20	BF140145.D	30 Oct 2024 06:50	RC/JU	Ok
48	P4597-09	BF140146.D	30 Oct 2024 07:16	RC/JU	Ok
49	P4597-12	BF140147.D	30 Oct 2024 07:42	RC/JU	Ok
50	P4598-04	BF140148.D	30 Oct 2024 08:08	RC/JU	Ok
51	P4598-08	BF140149.D	30 Oct 2024 08:34	RC/JU	Ok
52	P4598-12	BF140150.D	30 Oct 2024 09:00	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF103024

Review By	Jagrut	Review On	11/5/2024 4:15:40 PM		
Supervise By	yogesh	Supervise On	11/6/2024 3:10:37 AM		
SubDirectory	BF103024	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	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140151.D	30 Oct 2024 11:56	RC/JU	Ok
2	SSTDCCC040	BF140152.D	30 Oct 2024 12:50	RC/JU	Ok,M
3	PB164531BL	BF140153.D	30 Oct 2024 13:17	RC/JU	Ok
4	PB164531BS	BF140154.D	30 Oct 2024 13:43	RC/JU	Ok,M
5	P4611-10	BF140155.D	30 Oct 2024 14:14	RC/JU	Ok
6	P4578-03	BF140156.D	30 Oct 2024 14:41	RC/JU	Ok,M
7	P4612-05	BF140157.D	30 Oct 2024 15:07	RC/JU	Ok
8	P4611-13	BF140158.D	30 Oct 2024 15:34	RC/JU	Ok
9	P4611-16	BF140159.D	30 Oct 2024 16:00	RC/JU	Ok
10	P4616-05	BF140160.D	30 Oct 2024 16:26	RC/JU	Ok
11	P4618-03	BF140161.D	30 Oct 2024 16:53	RC/JU	Ok,M
12	P4611-01	BF140162.D	30 Oct 2024 17:20	RC/JU	Ok
13	P4617-01	BF140163.D	30 Oct 2024 17:46	RC/JU	Ok,M
14	P4611-04	BF140164.D	30 Oct 2024 18:13	RC/JU	ReRun
15	P4612-03	BF140165.D	30 Oct 2024 18:39	RC/JU	Ok,M
16	P4618-01	BF140166.D	30 Oct 2024 19:05	RC/JU	ReRun
17	P4595-01	BF140167.D	30 Oct 2024 19:32	RC/JU	ReRun
18	P4594-01	BF140168.D	30 Oct 2024 19:58	RC/JU	ReRun
19	P4611-07	BF140169.D	30 Oct 2024 20:25	RC/JU	ReRun
20	P4613-01	BF140170.D	30 Oct 2024 20:51	RC/JU	Ok,M
21	P4594-09	BF140171.D	30 Oct 2024 21:17	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF103024

Review By	Jagrut	Review On	11/5/2024 4:15:40 PM		
Supervise By	yogesh	Supervise On	11/6/2024 3:10:37 AM		
SubDirectory	BF103024	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	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4619-01	BF140172.D	30 Oct 2024 21:44	RC/JU	Dilution
23	P4614-01	BF140173.D	30 Oct 2024 22:10	RC/JU	ReRun
24	P4598-09	BF140174.D	30 Oct 2024 22:37	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF103124

Review By	yogesh	Review On	11/4/2024 1:41:34 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:50:49 AM		
SubDirectory	BF103124	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	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140175.D	31 Oct 2024 08:56	RC/JU	Ok
2	SSTDCCC040	BF140176.D	31 Oct 2024 09:22	RC/JU	Ok,M
3	PB164540BL	BF140177.D	31 Oct 2024 09:48	RC/JU	Ok
4	PB164540BS	BF140178.D	31 Oct 2024 10:15	RC/JU	Ok,M
5	PB164522TB	BF140179.D	31 Oct 2024 10:41	RC/JU	Ok
6	P4611-18	BF140180.D	31 Oct 2024 11:14	RC/JU	Ok
7	P4612-04	BF140181.D	31 Oct 2024 11:40	RC/JU	Ok
8	P4613-02	BF140182.D	31 Oct 2024 12:07	RC/JU	Ok
9	P4616-04	BF140183.D	31 Oct 2024 12:33	RC/JU	Ok
10	P4611-04	BF140184.D	31 Oct 2024 13:03	RC/JU	Ok,M
11	P4611-09	BF140185.D	31 Oct 2024 13:29	RC/JU	Ok
12	P4611-06	BF140186.D	31 Oct 2024 13:55	RC/JU	Ok
13	P4611-03	BF140187.D	31 Oct 2024 14:21	RC/JU	Ok
14	P4611-03MS	BF140188.D	31 Oct 2024 14:48	RC/JU	Ok,M
15	P4611-03MSD	BF140189.D	31 Oct 2024 15:14	RC/JU	Ok,M
16	P4594-09	BF140190.D	31 Oct 2024 15:42	RC/JU	Ok
17	P4614-01	BF140191.D	31 Oct 2024 16:08	RC/JU	Ok,M
18	P4619-01DL	BF140192.D	31 Oct 2024 16:35	RC/JU	Ok,M
19	P4578-01	BF140193.D	31 Oct 2024 17:01	RC/JU	ReRun
20	P4617-04	BF140194.D	31 Oct 2024 17:28	RC/JU	Ok
21	P4611-15	BF140195.D	31 Oct 2024 17:54	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF103124

Review By	yogesh	Review On	11/4/2024 1:41:34 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:50:49 AM		
SubDirectory	BF103124	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	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	P4611-12	BF140196.D	31 Oct 2024 18:21	RC/JU	Ok
23	P4643-09	BF140197.D	31 Oct 2024 18:47	RC/JU	Ok
24	P4639-01	BF140198.D	31 Oct 2024 19:13	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF110124

Review By	yogesh	Review On	11/4/2024 1:46:46 AM				
Supervise By	mohammad	Supervise On	11/4/2024 1:51:22 AM				
SubDirectory	BF110124	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	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF140199.D	01 Nov 2024 08:56	RC/JU	Ok
2	SSTDCCC040	BF140200.D	01 Nov 2024 09:22	RC/JU	Ok,M
3	PB164558BL	BF140201.D	01 Nov 2024 09:49	RC/JU	Ok
4	PB164558BS	BF140202.D	01 Nov 2024 10:15	RC/JU	Ok,M
5	PB164531BS	BF140203.D	01 Nov 2024 10:41	RC/JU	Ok,M
6	P4643-01	BF140204.D	01 Nov 2024 11:14	RC/JU	Ok
7	P4643-05	BF140205.D	01 Nov 2024 11:40	RC/JU	Ok
8	P4578-01RE	BF140206.D	01 Nov 2024 12:07	RC/JU	Confirms
9	P4578-02RE	BF140207.D	01 Nov 2024 12:33	RC/JU	Confirms
10	P4663-08	BF140208.D	01 Nov 2024 14:00	RC/JU	Ok
11	P4663-08MS	BF140209.D	01 Nov 2024 14:27	RC/JU	Ok,M
12	P4663-08MSD	BF140210.D	01 Nov 2024 14:53	RC/JU	Ok,M
13	P4659-01	BF140211.D	01 Nov 2024 15:20	RC/JU	ReRun
14	P4663-04	BF140212.D	01 Nov 2024 15:47	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE102824

Review By	yogesh	Review On	10/29/2024 4:57:44 AM		
Supervise By	mohammad	Supervise On	10/30/2024 2:48:38 AM		
SubDirectory	BE102824	HP Acquire Method	BNA_E	HP Processing Method	be102824

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	BE101388.D	28 Oct 2024 10:51		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BE101389.D	28 Oct 2024 11:44		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BE101390.D	28 Oct 2024 12:23	Compound #32,54,56,65 removed from 5ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BE101391.D	28 Oct 2024 12:59		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BE101392.D	28 Oct 2024 13:35	Compound #32,54 Kept on LR	RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BE101393.D	28 Oct 2024 14:11	The Calibration is Good For 8270 DOD Except com#77 and Not good for 625.1 Method	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BE101394.D	28 Oct 2024 14:49	Com#77(Benzidine) Failed in the calibration for both DOD and NON-DOD	RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BE101395.D	28 Oct 2024 15:25	Compound #69 removed from 60ppm	RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BE101396.D	28 Oct 2024 16:01	Compound #9,69,79 removed from 80ppm	RC/JU	Ok,M
10	SSTDICV040	ICVBE102824	BE101397.D	28 Oct 2024 16:37	ICV Fail for Com#77 for Both DOD and NON-DOD	RC/JU	Ok,M
11	PB164444BL	PB164444BL	BE101398.D	28 Oct 2024 17:16		RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE103124

Review By	yogesh	Review On	11/4/2024 1:42:16 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:50:57 AM		
SubDirectory	BE103124	HP Acquire Method	BNA_E	HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/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	BE101424.D	31 Oct 2024 9:40		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BE101425.D	31 Oct 2024 10:18		RC/JU	Ok,M
3	PB164533BL	PB164533BL	BE101426.D	31 Oct 2024 10:57		RC/JU	Ok
4	PB164533BS	PB164533BS	BE101427.D	31 Oct 2024 11:33		RC/JU	Ok,M
5	PB164533BSD	PB164533BSD	BE101428.D	31 Oct 2024 12:09		RC/JU	Ok,M
6	P4616-08	BP-F9-MOVED	BE101429.D	31 Oct 2024 12:51		RC/JU	Ok
7	P4616-01	BP-F10	BE101430.D	31 Oct 2024 13:26		RC/JU	Ok
8	P4616-01MS	BP-F10MS	BE101431.D	31 Oct 2024 14:02	MSD Not OK	RC/JU	Not Ok
9	P4616-01MSD	BP-F10MSD	BE101432.D	31 Oct 2024 14:38	Internal standard fail	RC/JU	Not Ok
10	P4578-02	WB-305-SW-1	BE101433.D	31 Oct 2024 15:14	Surrogate Fail	RC/JU	ReRun
11	P4639-03	EO-02-103024	BE101434.D	31 Oct 2024 15:50		RC/JU	Ok
12	P4640-01	MH-3	BE101435.D	31 Oct 2024 16:25		RC/JU	Ok,M
13	P4640-01MS	MH-3MS	BE101436.D	31 Oct 2024 17:01		RC/JU	Ok,M
14	P4640-01MSD	MH-3MSD	BE101437.D	31 Oct 2024 17:37		RC/JU	Ok,M
15	P4598-09	TP-8	BE101438.D	31 Oct 2024 18:13		RC/JU	Ok
16	P4594-01	TP-4	BE101439.D	31 Oct 2024 18:49		RC/JU	Ok
17	P4611-07	TP-3	BE101440.D	31 Oct 2024 19:24		RC/JU	Ok,M
18	P4618-01	HR-01-102924	BE101441.D	31 Oct 2024 20:00		RC/JU	Ok

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Instrument ID: BNA_E

Daily Analysis Runlog For Sequence/QCBatch ID # BE103124

Review By	yogesh	Review On	11/4/2024 1:42:16 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:50:57 AM		
SubDirectory	BE103124	HP Acquire Method	BNA_E	HP Processing Method	be102824

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6628,SP6627,SP6626,SP6625,SP6624,SP6623,SP6622,SP6621
CCC	SP6624
Internal Standard/PEM	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4595-01	PITKIN-COMP	BE101442.D	31 Oct 2024 20:36		RC/JU	Ok

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 # BF102924

Review By	Jagrut	Review On	10/30/2024 10:58:28 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:49:36 AM		
SubDirectory	BF102924	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	BF140099.D	29 Oct 2024 09:09		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140100.D	29 Oct 2024 09:37		RC/JU	Ok,M
3	PB164461BL	PB164461BL	BF140101.D	29 Oct 2024 10:05		RC/JU	Ok
4	PB164461BS	PB164461BS	BF140102.D	29 Oct 2024 10:33		RC/JU	Ok,M
5	P4495-12	PT-TRIAZINE-SOIL	BF140103.D	29 Oct 2024 11:01		RC/JU	Ok
6	P4561-05	BP-F-18	BF140104.D	29 Oct 2024 11:34		RC/JU	Ok
7	P4561-05MS	BP-F-18MS	BF140105.D	29 Oct 2024 12:02		RC/JU	Ok,M
8	P4561-05MSD	BP-F-18MSD	BF140106.D	29 Oct 2024 12:30		RC/JU	Ok,M
9	P4574-07	CONCRETE-1	BF140107.D	29 Oct 2024 12:58		RC/JU	Ok
10	P4574-09	CONCRETE-2	BF140108.D	29 Oct 2024 13:24		RC/JU	Ok
11	P4574-11	CONCRETE-3	BF140109.D	29 Oct 2024 13:50		RC/JU	Ok
12	P4578-05	WB-305-BOT	BF140110.D	29 Oct 2024 14:16		RC/JU	Ok
13	P4578-07	WB-305-BOT-1	BF140111.D	29 Oct 2024 14:42		RC/JU	Ok
14	DFTPP	DFTPP	BF140112.D	29 Oct 2024 15:35		RC/JU	Ok
15	SSTDCCC040	SSTDCCC040	BF140113.D	29 Oct 2024 16:01		RC/JU	Ok,M
16	PB164497BL	PB164497BL	BF140114.D	29 Oct 2024 16:26		RC/JU	Ok
17	PB164497BS	PB164497BS	BF140115.D	29 Oct 2024 16:52		RC/JU	Ok,M
18	P4594-05	BP-F17	BF140116.D	29 Oct 2024 17:18		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102924

Review By	Jagrut	Review On	10/30/2024 10:58:28 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:49:36 AM		
SubDirectory	BF102924	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	P4594-05MS	BP-F17MS	BF140117.D	29 Oct 2024 17:45		RC/JU	Ok,M
20	P4594-05MSD	BP-F17MSD	BF140118.D	29 Oct 2024 18:11		RC/JU	Ok,M
21	P4597-07	BLUE-2-1	BF140119.D	29 Oct 2024 18:37		RC/JU	Ok,M
22	P4594-17	BP-F15	BF140120.D	29 Oct 2024 19:03		RC/JU	Ok
23	P4598-05	BP-F11	BF140121.D	29 Oct 2024 19:29		RC/JU	Ok
24	P4567-05	WC-2	BF140122.D	29 Oct 2024 19:55		RC/JU	Ok
25	P4597-01	RED-1-1	BF140123.D	29 Oct 2024 20:21		RC/JU	Ok,M
26	P4574-01	GRAVEL-1	BF140124.D	29 Oct 2024 20:47		RC/JU	Ok
27	P4578-04	WB-305-TOP-1	BF140125.D	29 Oct 2024 21:13		RC/JU	Ok,M
28	P4561-01	BP-F-19	BF140126.D	29 Oct 2024 21:39		RC/JU	Ok
29	P4567-09	WC-3	BF140127.D	29 Oct 2024 22:05		RC/JU	Ok
30	P4598-01	BP-F12	BF140128.D	29 Oct 2024 22:31		RC/JU	Ok
31	P4597-04	RED-1-2	BF140129.D	29 Oct 2024 22:57		RC/JU	Ok
32	P4597-10	BLUE-2-2	BF140130.D	29 Oct 2024 23:24		RC/JU	Ok
33	P4594-13	TP-5	BF140131.D	29 Oct 2024 23:49		RC/JU	Ok
34	DFTPP	DFTPP	BF140132.D	30 Oct 2024 00:41		RC/JU	Ok
35	SSTDCCC040	SSTDCCC040	BF140133.D	30 Oct 2024 01:11		RC/JU	Ok,M
36	PB164500BL	PB164500BL	BF140134.D	30 Oct 2024 02:04		RC/JU	Ok
37	PB164478TB	PB164478TB	BF140135.D	30 Oct 2024 02:30		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF102924

Review By	Jagrut	Review On	10/30/2024 10:58:28 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:49:36 AM		
SubDirectory	BF102924	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	

38	PB164500BS	PB164500BS	BF140136.D	30 Oct 2024 02:56		RC/JU	Ok,M
39	P4597-03	RED-1-1	BF140137.D	30 Oct 2024 03:22		RC/JU	Ok
40	P4597-06	RED-1-2	BF140138.D	30 Oct 2024 03:48		RC/JU	Ok
41	P4594-04	TP-4	BF140139.D	30 Oct 2024 04:14		RC/JU	Ok
42	P4594-04MS	TP-4MS	BF140140.D	30 Oct 2024 04:40		RC/JU	Ok,M
43	P4594-04MSD	TP-4MSD	BF140141.D	30 Oct 2024 05:06		RC/JU	Ok,M
44	P4594-08	BP-F17	BF140142.D	30 Oct 2024 05:32		RC/JU	Ok
45	P4594-12	BP-F16	BF140143.D	30 Oct 2024 05:58		RC/JU	Ok
46	P4594-16	TP-5	BF140144.D	30 Oct 2024 06:24		RC/JU	Ok
47	P4594-20	BP-F15	BF140145.D	30 Oct 2024 06:50		RC/JU	Ok
48	P4597-09	BLUE-2-1	BF140146.D	30 Oct 2024 07:16		RC/JU	Ok
49	P4597-12	BLUE-2-2	BF140147.D	30 Oct 2024 07:42		RC/JU	Ok
50	P4598-04	BP-F12	BF140148.D	30 Oct 2024 08:08		RC/JU	Ok
51	P4598-08	BP-F11	BF140149.D	30 Oct 2024 08:34		RC/JU	Ok
52	P4598-12	TP-8	BF140150.D	30 Oct 2024 09:00		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF103024

Review By	Jagrut	Review On	11/5/2024 4:15:40 PM		
Supervise By	yogesh	Supervise On	11/6/2024 3:10:37 AM		
SubDirectory	BF103024	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	S12324,10ul/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	BF140151.D	30 Oct 2024 11:56		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140152.D	30 Oct 2024 12:50		RC/JU	Ok,M
3	PB164531BL	PB164531BL	BF140153.D	30 Oct 2024 13:17		RC/JU	Ok
4	PB164531BS	PB164531BS	BF140154.D	30 Oct 2024 13:43		RC/JU	Ok,M
5	P4611-10	TP-4	BF140155.D	30 Oct 2024 14:14		RC/JU	Ok
6	P4578-03	WB-305-TOP	BF140156.D	30 Oct 2024 14:41		RC/JU	Ok,M
7	P4612-05	CONCRETE-PAD	BF140157.D	30 Oct 2024 15:07		RC/JU	Ok
8	P4611-13	TP-5	BF140158.D	30 Oct 2024 15:34		RC/JU	Ok
9	P4611-16	TP-6	BF140159.D	30 Oct 2024 16:00		RC/JU	Ok
10	P4616-05	BP-F9-MOVED	BF140160.D	30 Oct 2024 16:26		RC/JU	Ok
11	P4618-03	HR-04-102924	BF140161.D	30 Oct 2024 16:53		RC/JU	Ok,M
12	P4611-01	TP-1	BF140162.D	30 Oct 2024 17:20		RC/JU	Ok
13	P4617-01	RO-SOIL	BF140163.D	30 Oct 2024 17:46	Internal Standard Fail	RC/JU	Ok,M
14	P4611-04	TP-2	BF140164.D	30 Oct 2024 18:13	Internal standard fail	RC/JU	ReRun
15	P4612-03	MOO-24-00335	BF140165.D	30 Oct 2024 18:39	Internal standard fail	RC/JU	Ok,M
16	P4618-01	HR-01-102924	BF140166.D	30 Oct 2024 19:05	Internal standard fail	RC/JU	ReRun
17	P4595-01	PITKIN-COMP	BF140167.D	30 Oct 2024 19:32	Internal standard fail	RC/JU	ReRun
18	P4594-01	TP-4	BF140168.D	30 Oct 2024 19:58	Internal standard fail	RC/JU	ReRun

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF103024

Review By	Jagrut	Review On	11/5/2024 4:15:40 PM		
Supervise By	yogesh	Supervise On	11/6/2024 3:10:37 AM		
SubDirectory	BF103024	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	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4611-07	TP-3	BF140169.D	30 Oct 2024 20:25	Internal standard fail	RC/JU	ReRun
20	P4613-01	ARS20-0001	BF140170.D	30 Oct 2024 20:51	Internal standard fail	RC/JU	Ok,M
21	P4594-09	BP-F16	BF140171.D	30 Oct 2024 21:17	Internal standard fail	RC/JU	ReRun
22	P4619-01	SU-03-102924	BF140172.D	30 Oct 2024 21:44	Internal standard fail, Need 2X Dilution	RC/JU	Dilution
23	P4614-01	NB-07-102924	BF140173.D	30 Oct 2024 22:10	Internal standard fail	RC/JU	ReRun
24	P4598-09	TP-8	BF140174.D	30 Oct 2024 22:37	Internal standard fail	RC/JU	ReRun

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF103124

Review By	yogesh	Review On	11/4/2024 1:41:34 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:50:49 AM		
SubDirectory	BF103124	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	S12324,10ul/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	BF140175.D	31 Oct 2024 08:56		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140176.D	31 Oct 2024 09:22		RC/JU	Ok,M
3	PB164540BL	PB164540BL	BF140177.D	31 Oct 2024 09:48		RC/JU	Ok
4	PB164540BS	PB164540BS	BF140178.D	31 Oct 2024 10:15		RC/JU	Ok,M
5	PB164522TB	PB164522TB	BF140179.D	31 Oct 2024 10:41		RC/JU	Ok
6	P4611-18	TP-6	BF140180.D	31 Oct 2024 11:14		RC/JU	Ok
7	P4612-04	MOO-24-00335	BF140181.D	31 Oct 2024 11:40		RC/JU	Ok
8	P4613-02	ARS20-0001	BF140182.D	31 Oct 2024 12:07		RC/JU	Ok
9	P4616-04	BP-F10	BF140183.D	31 Oct 2024 12:33		RC/JU	Ok
10	P4611-04	TP-2	BF140184.D	31 Oct 2024 13:03		RC/JU	Ok,M
11	P4611-09	TP-3	BF140185.D	31 Oct 2024 13:29		RC/JU	Ok
12	P4611-06	TP-2	BF140186.D	31 Oct 2024 13:55		RC/JU	Ok
13	P4611-03	TP-1	BF140187.D	31 Oct 2024 14:21		RC/JU	Ok
14	P4611-03MS	TP-1MS	BF140188.D	31 Oct 2024 14:48		RC/JU	Ok,M
15	P4611-03MSD	TP-1MSD	BF140189.D	31 Oct 2024 15:14		RC/JU	Ok,M
16	P4594-09	BP-F16	BF140190.D	31 Oct 2024 15:42		RC/JU	Ok
17	P4614-01	NB-07-102924	BF140191.D	31 Oct 2024 16:08		RC/JU	Ok,M
18	P4619-01DL	SU-03-102924DL	BF140192.D	31 Oct 2024 16:35		RC/JU	Ok,M

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF103124

Review By	yogesh	Review On	11/4/2024 1:41:34 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:50:49 AM		
SubDirectory	BF103124	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	S12324,10ul/1000ul sample
ICV/I.BLK	SP6559
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	P4578-01	WB-305-SW	BF140193.D	31 Oct 2024 17:01	Surrogate Fail	RC/JU	ReRun
20	P4617-04	CONCRETE-PILE	BF140194.D	31 Oct 2024 17:28		RC/JU	Ok
21	P4611-15	TP-5	BF140195.D	31 Oct 2024 17:54		RC/JU	Ok
22	P4611-12	TP-4	BF140196.D	31 Oct 2024 18:21		RC/JU	Ok
23	P4643-09	TP-9	BF140197.D	31 Oct 2024 18:47		RC/JU	Ok
24	P4639-01	EO-01-103024	BF140198.D	31 Oct 2024 19:13		RC/JU	Ok,M

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 # BF110124

Review By	yogesh	Review On	11/4/2024 1:46:46 AM		
Supervise By	mohammad	Supervise On	11/4/2024 1:51:22 AM		
SubDirectory	BF110124	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	S12324,10ul/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	BF140199.D	01 Nov 2024 08:56		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF140200.D	01 Nov 2024 09:22		RC/JU	Ok,M
3	PB164558BL	PB164558BL	BF140201.D	01 Nov 2024 09:49		RC/JU	Ok
4	PB164558BS	PB164558BS	BF140202.D	01 Nov 2024 10:15		RC/JU	Ok,M
5	PB164531BS	PB164531BS	BF140203.D	01 Nov 2024 10:41		RC/JU	Ok,M
6	P4643-01	BP-F9-ADDITIONAL	BF140204.D	01 Nov 2024 11:14		RC/JU	Ok
7	P4643-05	BP-F8	BF140205.D	01 Nov 2024 11:40		RC/JU	Ok
8	P4578-01RE	WB-305-SWRE	BF140206.D	01 Nov 2024 12:07	Surrogate Fail	RC/JU	Confirms
9	P4578-02RE	WB-305-SW-1RE	BF140207.D	01 Nov 2024 12:33	Surrogate Fail	RC/JU	Confirms
10	P4663-08	RES-BUILDING-PAD-N	BF140208.D	01 Nov 2024 14:00		RC/JU	Ok
11	P4663-08MS	RES-BUILDING-PAD-N	BF140209.D	01 Nov 2024 14:27		RC/JU	Ok,M
12	P4663-08MSD	RES-BUILDING-PAD-N	BF140210.D	01 Nov 2024 14:53		RC/JU	Ok,M
13	P4659-01	MH-2	BF140211.D	01 Nov 2024 15:20	Internal standard fail	RC/JU	ReRun
14	P4663-04	RES-BUILDING-PAD-N	BF140212.D	01 Nov 2024 15:47		RC/JU	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164461

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 10/28/2024

Extraction Start Time : 09:00

Extraction End Date : 10/28/2024

Extraction End Time : 12:00

Concentration By: EH

Supervisor By : rajesh

Extraction Method: ☐ Seperatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☑ Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6630
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2538
Baked Na2SO4	N/A	EP2554
Sand	N/A	E2865
Methylene Chloride	N/A	E3822
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210673.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/28/24 12:05	RP (Ext. Lab)	RC/SVOC
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164461

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 10/28/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164461BL	SBLK461	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			U1-1
PB164461BS	SLCS461	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			2
P4561-01	BP-F-19	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	B		3
P4561-05	BP-F-18	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	B		4
P4561-05MS	BP-F-18MS	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	B		5
P4561-05MSD	BP-F-18MSD	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	B		6
P4566-01	HD-01-102524	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	E		U5-1
P4567-01	WC-1	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	B		2
P4567-05	WC-2	SVOC-TCL BNA -20	50.10	N/A	ritesh	Evelyn	1	B		3
P4567-09	WC-3	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	B		4
P4574-01	GRAVEL-1	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E	Stone	5
P4574-04	GRAVEL-2	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E	Stone	6
P4574-07	CONCRETE-1	SVOC-PAH	50.06	N/A	ritesh	Evelyn	1	A	Concrete	U6-1
P4574-09	CONCRETE-2	SVOC-PAH	50.08	N/A	ritesh	Evelyn	1	A	Concrete	2
P4574-11	CONCRETE-3	SVOC-PAH	50.01	N/A	ritesh	Evelyn	1	A	Concrete	3
P4575-01	PL-02-102424	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		4
P4577-01	TR-05-102524	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	E		5
P4578-03	WB-305-TOP	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		6
P4578-04	WB-305-TOP-1	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		U7-1
P4578-05	WB-305-BOT	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		2
P4578-07	WB-305-BOT-1	SVOC-TCL BNA -20	30.08	N/A	ritesh	Evelyn	1	E		3

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

10/28/24

164461
9:00

WORKLIST(Hardcopy Internal Chain)

WorkList Name : p4567 **WorkList ID :** 184853 **Department :** Extraction **Date :** 10-28-2024 08:26:17

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4561-01	BP-F-19	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K63	10/25/2024	8270E
P4561-05	BP-F-18	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K63	10/25/2024	8270E
P4566-01	HD-01-102524	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	K63	10/25/2024	8270E
P4567-01	WC-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K61	10/25/2024	8270E
P4567-05	WC-2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K61	10/25/2024	8270E
P4567-09	WC-3	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K61	10/25/2024	8270E
P4574-01	GRAVEL-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K63	10/25/2024	8270E
P4574-04	GRAVEL-2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	K63	10/25/2024	8270E
P4574-07	CONCRETE-1	Solid	SVOC-PAH	Cool 4 deg C	PSEG03	K63	10/25/2024	8270E
P4574-09	CONCRETE-2	Solid	SVOC-PAH	Cool 4 deg C	PSEG03	K63	10/25/2024	8270E
P4574-11	CONCRETE-3	Solid	SVOC-PAH	Cool 4 deg C	PSEG03	K63	10/25/2024	8270E
P4575-01	PL-02-102424	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	K63	10/25/2024	8270E
P4577-01	TR-05-102524	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG05	K63	10/25/2024	8270E
P4578-03	WB-305-TOP	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K63	10/25/2024	8270E
P4578-04	WB-305-TOP-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K63	10/25/2024	8270E
P4578-05	WB-305-BOT	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K63	10/25/2024	8270E
P4578-07	WB-305-BOT-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K63	10/25/2024	8270E

Date/Time 10/28/24 9:55
Raw Sample Received by: RJ (Set Lab)
Raw Sample Relinquished by: JDCSM)

Date/Time 10/28/24 9:30
Raw Sample Received by: JD CSM)
Raw Sample Relinquished by: RJ (Set Lab)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB164533

SOP ID:	M3510C,3580A-Extraction SVOC-20				
Clean Up SOP #:	N/A			**Extraction Start Date :**	10/30/2024
Matrix :	Water			**Extraction Start Time :**	08:50
Weigh By:	N/A	**Extraction By:**	RS	**Extraction End Date :**	10/30/2024
Balance check:	N/A	**Filter By:**	RS	**Extraction End Time :**	13:45
Balance ID:	N/A	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	E3574	**Hood ID:**	4,5,6,7	**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
Methylene Chloride	N/A	E3817
Baked Na2SO4	N/A	EP2551
10N NaoH	N/A	EP2550
H2SO4 1:1	N/A	EP2548
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5ML Vial Lot # 2210673. pH Adjusted<2 with 1:1 H2SO4 & >11 with 10 N NaOH. P4578-01,02 Limited volume recd.

KD Bath ID:	Water bath -01,02	**Envap ID:**	NE VAP-02
KD Bath Temperature:	60 °C	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/30/24	RP (Ext. Tech)	AC/SVOC
13:50	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB164533

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 10/30/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB164533BL	SBLK533	SVOC-TCL BNA -20	1000	6	ritesh	rajesh	1			SEP-12
PB164533BS	SLCS533	SVOC-TCL BNA -20	1000	6	ritesh	rajesh	1			13
PB164533BSD	SLCSD533	SVOC-TCL BNA -20	1000	6	ritesh	rajesh	1			14
P4578-01	WB-305-SW	SVOC-TCL BNA -20	490	6	ritesh	rajesh	0.5	G		15
P4578-02	WB-305-SW-1	SVOC-TCL BNA -20	490	6	ritesh	rajesh	0.5	G		16

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

10/30/24

S-TO
BN
10/31/33

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P4578 **WorkList ID :** 184933 **Department :** Extraction **Date :** 10-30-2024 08:30:21

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P4578-01	WB-305-SW	Water	EPH	1:1 HCl to pH < 2	PORT06	K63	10/25/2024	NJEPH
P4578-01	WB-305-SW	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K63	10/25/2024	8270E
P4578-02	WB-305-SW-1	Water	EPH	1:1 HCl to pH < 2	PORT06	K63	10/25/2024	NJEPH
P4578-02	WB-305-SW-1	Water	SVOC-TCL BNA -20	Cool 4 deg C	PORT06	K63	10/25/2024	8270E

Date/Time 10/30/24 8:05
Raw Sample Received by: RJ (Ext Lab)
Raw Sample Relinquished by: JT (SM)

Date/Time 10/30/24 8:05
Raw Sample Received by: JT (SM)
Raw Sample Relinquished by: RJ (Ext Lab)

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

LAB CHRONICLE

OrderID:	P4578	**OrderDate:**	10/25/2024 3:58:00 PM
Client:	Portal Partners Tri-Venture	**Project:**	Amtrak Sawtooth Bridges 2024
Contact:	Joseph Krupansky	**Location:**	K63,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P4578-01	**WB-305-SW**	**Water**			**10/25/24**			**10/25/24**
			SVOC-TCL BNA -20	8270E		10/30/24	10/31/24	
P4578-01RE	**WB-305-SWRE**	**Water**			**10/25/24**			**10/25/24**
			SVOC-TCL BNA -20	8270E		10/30/24	11/01/24	
P4578-02	**WB-305-SW-1**	**Water**			**10/25/24**			**10/25/24**
			SVOC-TCL BNA -20	8270E		10/30/24	10/31/24	
P4578-02RE	**WB-305-SW-1RE**	**Water**			**10/25/24**			**10/25/24**
			SVOC-TCL BNA -20	8270E		10/30/24	11/01/24	
P4578-03	**WB-305-TOP**	**SOIL**			**10/25/24**			**10/25/24**
			SVOC-TCL BNA -20	8270E		10/28/24	10/30/24	
P4578-04	**WB-305-TOP-1**	**SOIL**			**10/25/24**			**10/25/24**
			SVOC-TCL BNA -20	8270E		10/28/24	10/29/24	
P4578-05	**WB-305-BOT**	**SOIL**			**10/25/24**			**10/25/24**
			SVOC-TCL BNA -20	8270E		10/28/24	10/29/24	
P4578-06	**WB-305-BOT**	**TCLP**			**10/25/24**			**10/25/24**
			TCLP BNA	8270E		10/26/24	10/28/24	
P4578-07	**WB-305-BOT-1**	**SOIL**			**10/25/24**			**10/25/24**
			SVOC-TCL BNA -20	8270E		10/28/24	10/29/24	
P4578-08	**WB-305-BOT-1**	**TCLP**			**10/25/24**			**10/25/24**
			TCLP BNA	8270E		10/26/24	10/28/24	