CHEMTECH

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF021224 SAS No.: BF021224 SDG No.: BF021224

Instrument ID: BNA_F Calibration Date/Time: 2/12/2024 1: 16:29

Lab File ID: BF137359.D Init. Calib. Date(s):

EPA Sample No.: SSTDICCC040 Init. Calib. Time(s):

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
n-Nitrosodimethylamine	0.585	0.578		-1.197	
Pyridine	1.540	1.581		2.662	
2-Fluorophenol	1.334	1.333		-0.075	
Benzaldehyde	0.977	0.916		-6.244	
Aniline	1.739	1.779		2.3	
Phenol-d6	1.864	1.800		-3.433	
Phenol	2.000	1.980		-1.0	20.0
bis(2-Chloroethyl)ether	1.511	1.489		-1.456	
2-Chlorophenol	1.401	1.360		-2.926	
1,2-Dichlorobenzene	1.511	1.460		-3.375	
1,3-Dichlorobenzene	1.605	1.535		-4.361	
1,4-Dichlorobenzene	1.653	1.584		-4.174	20.0
Benzyl Alcohol	1.036	1.060		2.317	
2-Methylphenol	1.190	1.171		-1.597	
2,2-oxybis(1-Chloropropane)	2.300	2.202		-4.261	
Acetophenone	0.487	0.465		-4.517	
3+4-Methylphenols	1.389	1.382		-0.504	
n-Nitroso-di-n-propylamine	1.063	1.027	0.050	-3.387	
Nitrobenzene-d5	0.390	0.388		-0.513	
Hexachloroethane	0.579	0.549		-5.181	
Nitrobenzene	0.409	0.411		0.489	
Isophorone	0.824	0.780		-5.34	
2-Nitrophenol	0.155	0.158		1.935	20.0
2,4-Dimethylphenol	0.223	0.221		-0.897	
bis(2-Chloroethoxy)methane	0.469	0.460		-1.919	
2,4-Dichlorophenol	0.288	0.289		0.347	20.0
1,2,4-Trichlorobenzene	0.331	0.317		-4.23	
Benzoic acid	0.157	0.147		-6.369	
Naphthalene	1.080	1.044		-3.333	
4-Chloroaniline	0.350	0.366		4.571	
Hexachlorobutadiene	0.200	0.192		-4.0	20.0
Caprolactam	0.085	0.084		-1.176	
4-Chloro-3-methylphenol	0.313	0.316		0.958	20.0
2-Methylnaphthalene	0.663	0.646		-2.564	
Hexachlorocyclopentadiene	0.193	0.189	0.050	-2.073	
2,4,6-Trichlorophenol	0.386	0.383		-0.777	20.0
2-Fluorobiphenyl	1.350	1.247		-7.63	
2,4,5-Trichlorophenol	0.423	0.407		-3.783	
1,1-Biphenyl	1.555	1.486		-4.437	
2-Chloronaphthalene	1.244	1.174		-5.627	
2-Nitroaniline	0.271	0.293		8.118	

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Lab File ID: BF137359.D Init. Calib. Date(s):

EPA Sample No.: SSTDICCC040 Init. Calib. Time(s):

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Dimethylphthalate	1.435	1.385		-3.484	
Acenaphthylene	1.818	1.751		-3.685	
2,6-Dinitrotoluene	0.287	0.295		2.787	
3-Nitroaniline	0.248	0.266		7.258	
Acenaphthene	1.122	1.067		-4.902	20.0
2,4-Dinitrophenol	0.107	0.109	0.050	1.869	
4-Nitrophenol	0.171	0.185	0.050	8.187	
Dibenzofuran	1.662	1.604		-3.49	
2,4-Dinitrotoluene	0.339	0.366		7.965	
Diethylphthalate	1.349	1.318		-2.298	
4-Chlorophenyl-phenylether	0.637	0.608		-4.553	
Fluorene	1.285	1.220		-5.058	
4-Nitroaniline	0.191	0.223		16.754	
4,6-Dinitro-2-methylphenol	0.100	0.099		-1.0	
n-Nitrosodiphenylamine	0.631	0.613		-2.853	20.0
Azobenzene	1.485	1.445		-2.694	
2,4,6-Tribromophenol	0.184	0.182		-1.087	
4-Bromophenyl-phenylether	0.225	0.217		-3.556	
Hexachlorobenzene	0.254	0.241		-5.118	
Atrazine	0.142	0.155		9.155	
Pentachlorophenol	0.138	0.147		6.522	20.0
Phenanthrene	1.077	1.019		-5.385	
Anthracene	1.072	1.014		-5.41	
Carbazole	0.925	0.924		-0.108	
Di-n-butylphthalate	0.966	0.997		3.209	
Fluoranthene	1.048	1.029		-1.813	20.0
Benzidine	0.063	0.105		66.667	
Pyrene	1.834	1.781		-2.89	
Terphenyl-d14	1.397	1.351		-3.293	
Butylbenzylphthalate	0.204	0.202		-0.98	
3,3-Dichlorobenzidine	0.264	0.268		1.515	
Benzo(a)anthracene	1.391	1.374		-1.222	
Chrysene	1.423	1.366		-4.006	
Bis(2-ethylhexyl)phthalate	0.305	0.309		1.311	
Di-n-octyl phthalate	0.628	0.558		-11.146	20.0
Benzo(b)fluoranthene	1.310	1.229		-6.183	
Benzo(k)fluoranthene	1.247	1.263		1.283	
Benzo(a)pyrene	1.095	1.093		-0.183	20.0
Indeno(1,2,3-cd)pyrene	1.195	1.199		0.335	
Dibenzo(a,h)anthracene	0.954	0.975		2.201	
Benzo(g,h,i)perylene	1.001	0.990		-1.099	

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Instrument ID: BNA_F Calibration Date/Time: 2/12/2024 1: 16:29

Lab File ID: BF137359.D Init. Calib. Date(s):

EPA Sample No.: SSTDICCC040 Init. Calib. Time(s):

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
1,2,4,5-Tetrachlorobenzene	0.603	0.574		-4.809	
1,4-Dioxane	0.704	0.674		-4.261	20.0
2,3,4,6-Tetrachlorophenol	0.337	0.335		-0.593	
1-Methylnaphthalene	0.653	0.633		-3.063	

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:			Date Collected:		
Project:			Date Received:		
Client Sample ID:	ICVBF021224		SDG No.:	BF021224	
Lab Sample ID:	SSTDICV040		Matrix:	Water	
Analytical Method:	8270E		% Moisture:	100	
Sample Wt/Vol:	1000 Units:	mL	Final Vol:	1000000	uL
Soil Aliquot Vol:		uL	Test:		
Extraction Type :		Decanted :	Level :	LOW	
Injection Volume :		GPC Factor :	GPC Cleanup :		PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF137363.D	1		2/12/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	40000		2000	8000	10000	ug/L
110-86-1	Pyridine	42700		1800	4000	5000	ug/L
100-52-7	Benzaldehyde	39900		3300	8000	10000	ug/L
62-53-3	Aniline	42700		2400	4000	5000	ug/L
108-95-2	Phenol	40400		1500	4000	5000	ug/L
111-44-4	bis(2-Chloroethyl)ether	39900		1700	4000	5000	ug/L
95-57-8	2-Chlorophenol	39700		1400	4000	5000	ug/L
95-50-1	1,2-Dichlorobenzene	38700		1300	4000	5000	ug/L
541-73-1	1,3-Dichlorobenzene	38900		1700	4000	5000	ug/L
106-46-7	1,4-Dichlorobenzene	39100		1400	4000	5000	ug/L
100-51-6	Benzyl Alcohol	43500		2400	8000	10000	ug/L
95-48-7	2-Methylphenol	40600		2100	4000	5000	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	38700		2300	4000	5000	ug/L
98-86-2	Acetophenone	38000		1800	4000	5000	ug/L
65794-96-9	3+4-Methylphenols	40100		2200	8000	10000	ug/L
621-64-7	n-Nitroso-di-n-propylamine	39900		2000	2500	2500	ug/L
67-72-1	Hexachloroethane	38500		1600	4000	5000	ug/L
98-95-3	Nitrobenzene	41200		1700	4000	5000	ug/L
78-59-1	Isophorone	38400		1700	4000	5000	ug/L
88-75-5	2-Nitrophenol	44100		2400	4000	5000	ug/L
105-67-9	2,4-Dimethylphenol	41200		3000	4000	5000	ug/L
111-91-1	bis(2-Chloroethoxy)methane	39900		2000	4000	5000	ug/L
120-83-2	2,4-Dichlorophenol	40600		1700	4000	5000	ug/L
120-82-1	1,2,4-Trichlorobenzene	39200		1700	4000	5000	ug/L
65-85-0	Benzoic acid	45000		6700	8000	10000	ug/L
91-20-3	Naphthalene	38500		1700	4000	5000	ug/L
106-47-8	4-Chloroaniline	43200		2500	4000	5000	ug/L
87-68-3	Hexachlorobutadiene	38500		1900	4000	5000	ug/L
105-60-2	Caprolactam	44800		3400	8000	10000	ug/L
59-50-7	4-Chloro-3-methylphenol	40700		1800	4000	5000	ug/L
91-57-6	2-Methylnaphthalene	39300		2200	4000	5000	ug/L

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Report of Analysis

Client:			Date Collected:		
Project:			Date Received:		
Client Sample ID:	ICVBF021224		SDG No.:	BF021224	
Lab Sample ID:	SSTDICV040		Matrix:	Water	
Analytical Method:	8270E		% Moisture:	100	
Sample Wt/Vol:	1000 Units:	mL	Final Vol:	1000000	uL
Soil Aliquot Vol:		uL	Test:		
Extraction Type :		Decanted :	Level :	LOW	
Injection Volume :		GPC Factor :	GPC Cleanup :		PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF137363.D	1		2/12/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
77-47-4	Hexachlorocyclopentadiene	38400		5700	8000	10000	ug/L
88-06-2	2,4,6-Trichlorophenol	39500		1500	4000	5000	ug/L
95-95-4	2,4,5-Trichlorophenol	39300		1600	4000	5000	ug/L
92-52-4	1,1-Biphenyl	37300		1800	4000	5000	ug/L
91-58-7	2-Chloronaphthalene	37800		1600	4000	5000	ug/L
88-74-4	2-Nitroaniline	41200		2400	4000	5000	ug/L
131-11-3	Dimethylphthalate	38100		1900	4000	5000	ug/L
208-96-8	Acenaphthylene	38100		2100	4000	5000	ug/L
606-20-2	2,6-Dinitrotoluene	42200		2100	4000	5000	ug/L
99-09-2	3-Nitroaniline	41700		2400	4000	5000	ug/L
83-32-9	Acenaphthene	37400		1700	4000	5000	ug/L
Total PAH	Total PAH	626100		31000	4000	80000	ug/L
51-28-5	2,4-Dinitrophenol	40800		5500	8000	10000	ug/L
100-02-7	4-Nitrophenol	42300		2800	8000	10000	ug/L
132-64-9	Dibenzofuran	38500		1600	4000	5000	ug/L
121-14-2	2,4-Dinitrotoluene	42200		2500	4000	5000	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixtur	84400		4600	4000	10000	ug/L
84-66-2	Diethylphthalate	39300		2100	4000	5000	ug/L
7005-72-3	4-Chlorophenyl-phenylether	37200		2200	4000	5000	ug/L
86-73-7	Fluorene	37300		2000	4000	5000	ug/L
100-01-6	4-Nitroaniline	42600		2300	4000	5000	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	40400		1800	8000	10000	ug/L
86-30-6	n-Nitrosodiphenylamine	38800		2000	4000	5000	ug/L
103-33-3	Azobenzene	38500		1600	4000	5000	ug/L
101-55-3	4-Bromophenyl-phenylether	38900		2000	4000	5000	ug/L
118-74-1	Hexachlorobenzene	38300		1900	4000	5000	ug/L
1912-24-9	Atrazine	47000		3500	4000	5000	ug/L
87-86-5	Pentachlorophenol	43400		2600	8000	10000	ug/L
85-01-8	Phenanthrene	38100		2000	4000	5000	ug/L
120-12-7	Anthracene	38500		2300	4000	5000	ug/L
86-74-8	Carbazole	40500		1700	4000	5000	ug/L
84-74-2	Di-n-butylphthalate	45500		2400	4000	5000	ug/L
206-44-0	Fluoranthene	40000		2100	4000	5000	ug/L

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Report of Analysis

Client:				Date Collected:	
Project:				Date Received:	
Client Sample ID:	ICVBF021224			SDG No.:	BF021224
Lab Sample ID:	SSTDICV040			Matrix:	Water
Analytical Method:	8270E			% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000000 uL
Soil Aliquot Vol:			uL	Test:	
Extraction Type :			Decanted :	Level :	LOW
Injection Volume :			GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF137363.D	1		2/12/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
92-87-5	Benzidine	88000	E	6600	8000	10000	ug/L
129-00-0	Pyrene	39900		1900	4000	5000	ug/L
85-68-7	Butylbenzylphthalate	51600		2800	4000	5000	ug/L
91-94-1	3,3-Dichlorobenzidine	41800		5400	8000	10000	ug/L
56-55-3	Benzo(a)anthracene	39800		1500	4000	5000	ug/L
218-01-9	Chrysene	40100		1600	4000	5000	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	51300		2900	4000	5000	ug/L
117-84-0	Di-n-octyl phthalate	49000		3100	8000	10000	ug/L
205-99-2	Benzo(b)fluoranthene	40900		1500	4000	5000	ug/L
207-08-9	Benzo(k)fluoranthene	38400		1900	4000	5000	ug/L
50-32-8	Benzo(a)pyrene	39900		2700	4000	5000	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	39600		2100	4000	5000	ug/L
53-70-3	Dibenzo(a,h)anthracene	40300		2000	4000	5000	ug/L
191-24-2	Benzo(g,h,i)perylene	39300		1900	4000	5000	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	37800		2100	4000	5000	ug/L
123-91-1	1,4-Dioxane	39200		2400	4000	5000	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	40500		1300	4000	5000	ug/L
90-12-0	1-Methylnaphthalene	39700		2100	4000	5000	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	81300	*	10-139		54200	SPK: -150
13127-88-3	Phenol-d6	79200	*	10-134		52800	SPK: -150
4165-60-0	Nitrobenzene-d5	81873	*	49-133		81873	SPK: -100
321-60-8	2-Fluorobiphenyl	71790	*	52-132		71790	SPK: -100
118-79-6	2,4,6-Tribromophenol	83012	*	32-145		55341	SPK: -150
1718-51-0	Terphenyl-d14	79008	*	36-145		79008	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	222433	6.781				
1146-65-2	Naphthalene-d8	895182	8.063				
15067-26-2	Acenaphthene-d10	488851	9.822				
1517-22-2	Phenanthrene-d10	853807	11.31				
1719-03-5	Chrysene-d12	493490	13.969				
1520-96-3	Perylene-d12	461893	15.445				

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Report of Analysis

Client:			Date Collected:		
Project:			Date Received:		
Client Sample ID:	ICVBF021224		SDG No.:	BF021224	
Lab Sample ID:	SSTDICV040		Matrix:	Water	
Analytical Method:	8270E		% Moisture:	100	
Sample Wt/Vol:	1000 Units:	mL	Final Vol:	1000000	uL
Soil Aliquot Vol:		uL	Test:		
Extraction Type :		Decanted :	Level :	LOW	
Injection Volume :		GPC Factor :	GPC Cleanup :		PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF137363.D	1		2/12/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:				Date Collected:	2/2/2024 12:00:00 AM
Project:				Date Received:	2/2/2024 12:00:00 AM
Client Sample ID:	PB158784BL			SDG No.:	BF021224
Lab Sample ID:	PB158784BL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	0
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	
Extraction Type :			Decanted :	Level :	LOW
Injection Volume :			GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF137364.D	1	2/2/2024 12:00:00 AM	2/12/2024 12:00:00 AM	PB158784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	77.3	U	77.3	270	330	ug/Kg
110-86-1	Pyridine	72.4	U	72.4	130	170	ug/Kg
100-52-7	Benzaldehyde	150	U	150	270	330	ug/Kg
62-53-3	Aniline	120	U	120	130	170	ug/Kg
108-95-2	Phenol	74.4	U	74.4	130	170	ug/Kg
111-44-4	bis(2-Chloroethyl)ether	89.8	U	89.8	130	170	ug/Kg
95-57-8	2-Chlorophenol	72	U	72	130	170	ug/Kg
95-50-1	1,2-Dichlorobenzene	81.7	U	81.7	130	170	ug/Kg
541-73-1	1,3-Dichlorobenzene	88.5	U	88.5	130	170	ug/Kg
106-46-7	1,4-Dichlorobenzene	82.4	U	82.4	130	170	ug/Kg
100-51-6	Benzyl Alcohol	98.8	U	98.8	270	330	ug/Kg
95-48-7	2-Methylphenol	110	U	110	130	170	ug/Kg
108-60-1	2,2-oxybis(1-Chloropropane)	100	U	100	130	170	ug/Kg
98-86-2	Acetophenone	86.7	U	86.7	130	170	ug/Kg
65794-96-9	3+4-Methylphenols	110	U	110	270	330	ug/Kg
621-64-7	n-Nitroso-di-n-propylamine	59	U	59	80	80	ug/Kg
67-72-1	Hexachloroethane	73.6	U	73.6	130	170	ug/Kg
98-95-3	Nitrobenzene	75.2	U	75.2	130	170	ug/Kg
78-59-1	Isophorone	68.1	U	68.1	130	170	ug/Kg
88-75-5	2-Nitrophenol	95.1	U	95.1	130	170	ug/Kg
105-67-9	2,4-Dimethylphenol	99.6	U	99.6	130	170	ug/Kg
111-91-1	bis(2-Chloroethoxy)methane	110	U	110	130	170	ug/Kg
120-83-2	2,4-Dichlorophenol	78.1	U	78.1	130	170	ug/Kg
120-82-1	1,2,4-Trichlorobenzene	77.5	U	77.5	130	170	ug/Kg
65-85-0	Benzoic acid	210	U	210	270	330	ug/Kg
91-20-3	Naphthalene	81.4	U	81.4	130	170	ug/Kg
106-47-8	4-Chloroaniline	100	U	100	130	170	ug/Kg
87-68-3	Hexachlorobutadiene	84	U	84	130	170	ug/Kg
105-60-2	Caprolactam	120	U	120	270	330	ug/Kg
59-50-7	4-Chloro-3-methylphenol	82.5	U	82.5	130	170	ug/Kg
91-57-6	2-Methylnaphthalene	94.9	U	94.9	130	170	ug/Kg

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Report of Analysis

Client:				Date Collected:	2/2/2024 12:00:00 AM
Project:				Date Received:	2/2/2024 12:00:00 AM
Client Sample ID:	PB158784BL			SDG No.:	BF021224
Lab Sample ID:	PB158784BL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	0
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	
Extraction Type :			Decanted :	Level :	LOW
Injection Volume :			GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF137364.D	1	2/2/2024 12:00:00 AM	2/12/2024 12:00:00 AM	PB158784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
77-47-4	Hexachlorocyclopentadiene	210	U	210	270	330	ug/Kg
88-06-2	2,4,6-Trichlorophenol	77.1	U	77.1	130	170	ug/Kg
95-95-4	2,4,5-Trichlorophenol	87.9	U	87.9	130	170	ug/Kg
92-52-4	1,1-Biphenyl	91.3	U	91.3	130	170	ug/Kg
91-58-7	2-Chloronaphthalene	84.6	U	84.6	130	170	ug/Kg
88-74-4	2-Nitroaniline	99.3	U	99.3	130	170	ug/Kg
131-11-3	Dimethylphthalate	88.9	U	88.9	130	170	ug/Kg
208-96-8	Acenaphthylene	88.4	U	88.4	130	170	ug/Kg
606-20-2	2,6-Dinitrotoluene	90	U	90	130	170	ug/Kg
99-09-2	3-Nitroaniline	93.4	U	93.4	130	170	ug/Kg
83-32-9	Acenaphthene	80.3	U	80.3	130	170	ug/Kg
Total PAH	Total PAH	1438.1	U	1438.1	130	2720	ug/Kg
51-28-5	2,4-Dinitrophenol	180	U	180	270	330	ug/Kg
100-02-7	4-Nitrophenol	110	U	110	270	330	ug/Kg
132-64-9	Dibenzofuran	76.9	U	76.9	130	170	ug/Kg
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixture	189.9	U	189.9	130	340	ug/Kg
121-14-2	2,4-Dinitrotoluene	99.9	U	99.9	130	170	ug/Kg
84-66-2	Diethylphthalate	85.9	U	85.9	130	170	ug/Kg
7005-72-3	4-Chlorophenyl-phenylether	90.4	U	90.4	130	170	ug/Kg
86-73-7	Fluorene	84.8	U	84.8	130	170	ug/Kg
100-01-6	4-Nitroaniline	100	U	100	130	170	ug/Kg
534-52-1	4,6-Dinitro-2-methylphenol	87.8	U	87.8	270	330	ug/Kg
86-30-6	n-Nitrosodiphenylamine	93.3	U	93.3	130	170	ug/Kg
103-33-3	Azobenzene	73.5	U	73.5	130	170	ug/Kg
101-55-3	4-Bromophenyl-phenylether	97.4	U	97.4	130	170	ug/Kg
118-74-1	Hexachlorobenzene	98.8	U	98.8	130	170	ug/Kg
1912-24-9	Atrazine	95.4	U	95.4	130	170	ug/Kg
87-86-5	Pentachlorophenol	110	U	110	270	330	ug/Kg
85-01-8	Phenanthrene	92.7	U	92.7	130	170	ug/Kg
120-12-7	Anthracene	100	U	100	130	170	ug/Kg
86-74-8	Carbazole	84.9	U	84.9	130	170	ug/Kg
84-74-2	Di-n-butylphthalate	100	U	100	130	170	ug/Kg
206-44-0	Fluoranthene	94.4	U	94.4	130	170	ug/Kg

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Report of Analysis

Client:				Date Collected:	2/2/2024 12:00:00 AM
Project:				Date Received:	2/2/2024 12:00:00 AM
Client Sample ID:	PB158784BL			SDG No.:	BF021224
Lab Sample ID:	PB158784BL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	0
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	
Extraction Type :			Decanted :	Level :	LOW
Injection Volume :			GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF137364.D	1	2/2/2024 12:00:00 AM	2/12/2024 12:00:00 AM	PB158784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
92-87-5	Benzidine	190	U	190	270	330	ug/Kg
129-00-0	Pyrene	83.7	U	83.7	130	170	ug/Kg
85-68-7	Butylbenzylphthalate	100	U	100	130	170	ug/Kg
91-94-1	3,3-Dichlorobenzidine	160	U	160	270	330	ug/Kg
56-55-3	Benzo(a)anthracene	83.9	U	83.9	130	170	ug/Kg
218-01-9	Chrysene	86.8	U	86.8	130	170	ug/Kg
117-81-7	Bis(2-ethylhexyl)phthalate	110	U	110	130	170	ug/Kg
117-84-0	Di-n-octyl phthalate	120	U	120	270	330	ug/Kg
205-99-2	Benzo(b)fluoranthene	80.3	U	80.3	130	170	ug/Kg
207-08-9	Benzo(k)fluoranthene	88.1	U	88.1	130	170	ug/Kg
50-32-8	Benzo(a)pyrene	94.3	U	94.3	130	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	110	U	110	130	170	ug/Kg
53-70-3	Dibenzo(a,h)anthracene	96.5	U	96.5	130	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	92.5	U	92.5	130	170	ug/Kg
95-94-3	1,2,4,5-Tetrachlorobenzene	89.4	U	89.4	130	170	ug/Kg
123-91-1	1,4-Dioxane	120	U	120	130	170	ug/Kg
58-90-2	2,3,4,6-Tetrachlorophenol	82.9	U	82.9	130	170	ug/Kg
90-12-0	1-Methylnaphthalene	90.2	U	90.2	170	170	ug/Kg
SURROGATES							
367-12-4	2-Fluorophenol	135.383		18-112		90	SPK: -150
13127-88-3	Phenol-d6	130.221		15-107		87	SPK: -150
4165-60-0	Nitrobenzene-d5	93.323		18-107		93	SPK: -100
321-60-8	2-Fluorobiphenyl	83.673		20-109		84	SPK: -100
118-79-6	2,4,6-Tribromophenol	140.31		10-110		94	SPK: -150
1718-51-0	Terphenyl-d14	89.504		14-112		90	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	196571	6.781				
1146-65-2	Naphthalene-d8	808755	8.063				
15067-26-2	Acenaphthene-d10	444916	9.816				
1517-22-2	Phenanthrene-d10	780549	11.31				
1719-03-5	Chrysene-d12	457540	13.963				
1520-96-3	Perylene-d12	371795	15.445				

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Report of Analysis

Client:				Date Collected:	2/2/2024 12:00:00 AM
Project:				Date Received:	2/2/2024 12:00:00 AM
Client Sample ID:	PB158784BL			SDG No.:	BF021224
Lab Sample ID:	PB158784BL			Matrix:	Solid
Analytical Method:	8270E			% Moisture:	0
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	
Extraction Type :			Decanted :	Level :	LOW
Injection Volume :			GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF137364.D	1	2/2/2024 12:00:00 AM	2/12/2024 12:00:00 AM	PB158784

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TENTATIVE IDENTIFIED COMPOUNDS							
000141-79-7	3-Penten-2-one, 4-methyl-	340	A			4.41	
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	1400	A			5.028	

CHEMTECH

Hit Summary Sheet
SW-846

SDG No.: BF021224

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**ICVBF021224**							
SSTDICV040	ICVBF021224	Water	1,1-Biphenyl	37,300.000		1800	5000	ug/L
SSTDICV040	ICVBF021224	Water	1,2,4,5-Tetrachlorobenzene	37,800.000		2100	5000	ug/L
SSTDICV040	ICVBF021224	Water	1,2,4-Trichlorobenzene	39,200.000		1700	5000	ug/L
SSTDICV040	ICVBF021224	Water	1,2-Dichlorobenzene	38,700.000		1300	5000	ug/L
SSTDICV040	ICVBF021224	Water	1,3-Dichlorobenzene	38,900.000		1700	5000	ug/L
SSTDICV040	ICVBF021224	Water	1,4-Dichlorobenzene	39,100.000		1400	5000	ug/L
SSTDICV040	ICVBF021224	Water	1,4-Dioxane	39,200.000		2400	5000	ug/L
SSTDICV040	ICVBF021224	Water	1-Methylnaphthalene	39,700.000		2100	5000	ug/L
SSTDICV040	ICVBF021224	Water	2,2-oxybis(1-Chloropropane)	38,700.000		2300	5000	ug/L
SSTDICV040	ICVBF021224	Water	2,3,4,6-Tetrachlorophenol	40,500.000		1300	5000	ug/L
SSTDICV040	ICVBF021224	Water	2,4,5-Trichlorophenol	39,300.000		1600	5000	ug/L
SSTDICV040	ICVBF021224	Water	2,4,6-Trichlorophenol	39,500.000		1500	5000	ug/L
SSTDICV040	ICVBF021224	Water	2,4-Dichlorophenol	40,600.000		1700	5000	ug/L
SSTDICV040	ICVBF021224	Water	2,4-Dimethylphenol	41,200.000		3000	5000	ug/L
SSTDICV040	ICVBF021224	Water	2,4-Dinitrophenol	40,800.000		5500	10000	ug/L
SSTDICV040	ICVBF021224	Water	2,4-Dinitrotoluene	42,200.000		2500	5000	ug/L
SSTDICV040	ICVBF021224	Water	2,6-Dinitrotoluene	42,200.000		2100	5000	ug/L
SSTDICV040	ICVBF021224	Water	2-Chloronaphthalene	37,800.000		1600	5000	ug/L
SSTDICV040	ICVBF021224	Water	2-Chlorophenol	39,700.000		1400	5000	ug/L
SSTDICV040	ICVBF021224	Water	2-Methylnaphthalene	39,300.000		2200	5000	ug/L
SSTDICV040	ICVBF021224	Water	2-Methylphenol	40,600.000		2100	5000	ug/L
SSTDICV040	ICVBF021224	Water	2-Nitroaniline	41,200.000		2400	5000	ug/L
SSTDICV040	ICVBF021224	Water	2-Nitrophenol	44,100.000		2400	5000	ug/L
SSTDICV040	ICVBF021224	Water	3+4-Methylphenols	40,100.000		2200	10000	ug/L
SSTDICV040	ICVBF021224	Water	3,3-Dichlorobenzidine	41,800.000		5400	10000	ug/L
SSTDICV040	ICVBF021224	Water	3-Nitroaniline	41,700.000		2400	5000	ug/L
SSTDICV040	ICVBF021224	Water	4,6-Dinitro-2-methylphenol	40,400.000		1800	10000	ug/L
SSTDICV040	ICVBF021224	Water	4-Bromophenyl-phenylether	38,900.000		2000	5000	ug/L
SSTDICV040	ICVBF021224	Water	4-Chloro-3-methylphenol	40,700.000		1800	5000	ug/L
SSTDICV040	ICVBF021224	Water	4-Chloroaniline	43,200.000		2500	5000	ug/L
SSTDICV040	ICVBF021224	Water	4-Chlorophenyl-phenylether	37,200.000		2200	5000	ug/L
SSTDICV040	ICVBF021224	Water	4-Nitroaniline	42,600.000		2300	5000	ug/L
SSTDICV040	ICVBF021224	Water	4-Nitrophenol	42,300.000		2800	10000	ug/L
SSTDICV040	ICVBF021224	Water	Acenaphthene	37,400.000		1700	5000	ug/L
SSTDICV040	ICVBF021224	Water	Acenaphthylene	38,100.000		2100	5000	ug/L
SSTDICV040	ICVBF021224	Water	Acetophenone	38,000.000		1800	5000	ug/L
SSTDICV040	ICVBF021224	Water	Aniline	42,700.000		2400	5000	ug/L
SSTDICV040	ICVBF021224	Water	Anthracene	38,500.000		2300	5000	ug/L
SSTDICV040	ICVBF021224	Water	Atrazine	47,000.000		3500	5000	ug/L

CHEMTECH

Hit Summary Sheet
SW-846

SDG No.: BF021224

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBF021224	Water	Azobenzene	38,500.000		1600	5000	ug/L
SSTDICV040	ICVBF021224	Water	Benzaldehyde	39,900.000		3300	10000	ug/L
SSTDICV040	ICVBF021224	Water	Benzidine	88,000.000	E	6600	10000	ug/L
SSTDICV040	ICVBF021224	Water	Benzo(a)anthracene	39,800.000		1500	5000	ug/L
SSTDICV040	ICVBF021224	Water	Benzo(a)pyrene	39,900.000		2700	5000	ug/L
SSTDICV040	ICVBF021224	Water	Benzo(b)fluoranthene	40,900.000		1500	5000	ug/L
SSTDICV040	ICVBF021224	Water	Benzo(g,h,i)perylene	39,300.000		1900	5000	ug/L
SSTDICV040	ICVBF021224	Water	Benzo(k)fluoranthene	38,400.000		1900	5000	ug/L
SSTDICV040	ICVBF021224	Water	Benzoic acid	45,000.000		6700	10000	ug/L
SSTDICV040	ICVBF021224	Water	Benzyl Alcohol	43,500.000		2400	10000	ug/L
SSTDICV040	ICVBF021224	Water	bis(2-Chloroethoxy)methane	39,900.000		2000	5000	ug/L
SSTDICV040	ICVBF021224	Water	bis(2-Chloroethyl)ether	39,900.000		1700	5000	ug/L
SSTDICV040	ICVBF021224	Water	Bis(2-ethylhexyl)phthalate	51,300.000		2900	5000	ug/L
SSTDICV040	ICVBF021224	Water	Butylbenzylphthalate	51,600.000		2800	5000	ug/L
SSTDICV040	ICVBF021224	Water	Caprolactam	44,800.000		3400	10000	ug/L
SSTDICV040	ICVBF021224	Water	Carbazole	40,500.000		1700	5000	ug/L
SSTDICV040	ICVBF021224	Water	Chrysene	40,100.000		1600	5000	ug/L
SSTDICV040	ICVBF021224	Water	Di-n-butylphthalate	45,500.000		2400	5000	ug/L
SSTDICV040	ICVBF021224	Water	Di-n-octyl phthalate	49,000.000		3100	10000	ug/L
SSTDICV040	ICVBF021224	Water	Dibenzo(a,h)anthracene	40,300.000		2000	5000	ug/L
SSTDICV040	ICVBF021224	Water	Dibenzofuran	38,500.000		1600	5000	ug/L
SSTDICV040	ICVBF021224	Water	Diethylphthalate	39,300.000		2100	5000	ug/L
SSTDICV040	ICVBF021224	Water	Dimethylphthalate	38,100.000		1900	5000	ug/L
SSTDICV040	ICVBF021224	Water	Fluoranthene	40,000.000		2100	5000	ug/L
SSTDICV040	ICVBF021224	Water	Fluorene	37,300.000		2000	5000	ug/L
SSTDICV040	ICVBF021224	Water	Hexachlorobenzene	38,300.000		1900	5000	ug/L
SSTDICV040	ICVBF021224	Water	Hexachlorobutadiene	38,500.000		1900	5000	ug/L
SSTDICV040	ICVBF021224	Water	Hexachlorocyclopentadiene	38,400.000		5700	10000	ug/L
SSTDICV040	ICVBF021224	Water	Hexachloroethane	38,500.000		1600	5000	ug/L
SSTDICV040	ICVBF021224	Water	Indeno(1,2,3-cd)pyrene	39,600.000		2100	5000	ug/L
SSTDICV040	ICVBF021224	Water	Isophorone	38,400.000		1700	5000	ug/L
SSTDICV040	ICVBF021224	Water	n-Nitroso-di-n-propylamine	39,900.000		2000	2500	ug/L
SSTDICV040	ICVBF021224	Water	n-Nitrosodimethylamine	40,000.000		2000	10000	ug/L
SSTDICV040	ICVBF021224	Water	n-Nitrosodiphenylamine	38,800.000		2000	5000	ug/L
SSTDICV040	ICVBF021224	Water	Naphthalene	38,500.000		1700	5000	ug/L
SSTDICV040	ICVBF021224	Water	Nitrobenzene	41,200.000		1700	5000	ug/L
SSTDICV040	ICVBF021224	Water	Pentachlorophenol	43,400.000		2600	10000	ug/L
SSTDICV040	ICVBF021224	Water	Phenanthrene	38,100.000		2000	5000	ug/L
SSTDICV040	ICVBF021224	Water	Phenol	40,400.000		1500	5000	ug/L
SSTDICV040	ICVBF021224	Water	Pyrene	39,900.000		1900	5000	ug/L
SSTDICV040	ICVBF021224	Water	Pyridine	42,700.000		1800	5000	ug/L
SSTDICV040	ICVBF021224	Water	2,4-Dinitrotoluene/2,6-Dinitrotolu	84,400.000		4600	10000	ug/L

CHEMTECH

Hit Summary Sheet
SW-846

SDG No.: BF021224

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
SSTDICV040	ICVBF021224	Water	Total PAH	626,100.000		31000	80000	ug/L
			Total Svoc :	**4,002,600.00**				
			Total Concentration:	**4,002,600.00**				

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF021224 SAS No.: BF021224 SDG No.: BF021224

Instrument ID: Calibration Date(s): 2/12/2024

Calibration Time(s): 14:32

LAB FILE ID: RRF2.5 = BF137355.D RRF005 = BF137356.D RRF010 = BF137357.D
RRF020 = BF137358.D RRF040 = BF137359.D RRF050 = BF137360.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine			0.411	0.533	0.578	0.651	0.585	17.4
Pyridine		1.198	1.403	1.566	1.581	1.644	1.540	11.8
2-Fluorophenol		1.269	1.424	1.433	1.333	1.343	1.334	5.7
Benzaldehyde		1.031	1.066	1.055	0.916	0.977	0.977	8.0
Aniline		1.454	1.736	1.824	1.779	1.831	1.739	7.6
Phenol-d6		1.888	2.049	2.013	1.800	1.821	1.864	7.0
Phenol		1.951	2.168	2.162	1.980	1.997	2.000	6.5
bis(2-Chloroethyl)ether		1.453	1.679	1.499	1.489	1.478	1.511	5.2
2-Chlorophenol		1.436	1.509	1.500	1.360	1.401	1.401	6.4
1,2-Dichlorobenzene		1.678	1.688	1.636	1.460	1.440	1.511	10.4
1,3-Dichlorobenzene		1.685	1.721	1.690	1.535	1.585	1.605	5.9
1,4-Dichlorobenzene		1.755	1.813	1.757	1.584	1.606	1.653	7.4
Benzyl Alcohol		0.885	1.062	1.135	1.060	1.088	1.036	8.4
2-Methylphenol		1.108	1.251	1.229	1.171	1.211	1.190	4.4
2,2-oxybis(1-Chloropropane)		2.485	2.481	2.429	2.202	2.262	2.300	7.4
Acetophenone		0.510	0.529	0.532	0.465	0.466	0.487	7.5
3+4-Methylphenols		1.353	1.574	1.559	1.382	1.379	1.389	10.3
n-Nitroso-di-n-propylamine	0.986	1.038	1.117	1.153	1.027	1.087	1.063	5.2
Nitrobenzene-d5		0.352	0.385	0.416	0.388	0.402	0.390	5.1
Hexachloroethane		0.612	0.640	0.615	0.549	0.567	0.579	7.7
Nitrobenzene		0.366	0.400	0.433	0.411	0.424	0.409	5.4
Isophorone		0.853	0.839	0.850	0.780	0.814	0.824	3.1
2-Nitrophenol		0.114	0.139	0.156	0.158	0.171	0.155	14.3
2,4-Dimethylphenol		0.210	0.213	0.232	0.221	0.228	0.223	3.9
bis(2-Chloroethoxy)methane		0.454	0.462	0.501	0.460	0.472	0.469	3.4
2,4-Dichlorophenol		0.262	0.289	0.303	0.289	0.293	0.288	4.5
1,2,4-Trichlorobenzene		0.350	0.345	0.348	0.317	0.326	0.331	4.7
Benzoic acid			0.108	0.119	0.147	0.173	0.157	25.0
Naphthalene		1.177	1.166	1.173	1.044	1.035	1.080	8.5
4-Chloroaniline		0.293	0.332	0.377	0.366	0.376	0.350	8.6
Hexachlorobutadiene		0.210	0.208	0.205	0.192	0.196	0.200	4.0
Caprolactam			0.074	0.084	0.084	0.089	0.085	7.4
4-Chloro-3-methylphenol		0.289	0.309	0.338	0.316	0.319	0.313	4.8
2-Methylnaphthalene		0.699	0.727	0.717	0.646	0.638	0.663	7.9
Hexachlorocyclopentadiene			0.142	0.171	0.189	0.211	0.193	16.8
2,4,6-Trichlorophenol		0.352	0.385	0.407	0.383	0.394	0.386	4.5

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF021224 SAS No.: BF021224 SDG No.: BF021224

Instrument ID: Calibration Date(s): 2/12/2024

Calibration Time(s): 14:32

LAB FILE ID: RRF2.5 = BF137355.D RRF005 = BF137356.D RRF010 = BF137357.D
RRF020 = BF137358.D RRF040 = BF137359.D RRF050 = BF137360.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.631	1.559	1.467	1.247	1.234	1.350	14.8
2,4,5-Trichlorophenol		0.420	0.409	0.450	0.407	0.440	0.423	3.8
1,1-Biphenyl		1.724	1.738	1.663	1.486	1.488	1.555	9.9
2-Chloronaphthalene		1.339	1.350	1.326	1.174	1.206	1.244	7.4
2-Nitroaniline		0.123	0.214	0.263	0.293	0.329	0.271	29.2
Dimethylphthalate		1.466	1.514	1.516	1.385	1.401	1.435	4.4
Acenaphthylene		1.963	2.005	1.956	1.751	1.744	1.818	8.6
2,6-Dinitrotoluene		0.218	0.283	0.299	0.295	0.305	0.287	11.0
3-Nitroaniline		0.138	0.215	0.248	0.266	0.286	0.248	22.6
Acenaphthene		1.242	1.240	1.204	1.067	1.065	1.122	9.3
2,4-Dinitrophenol			0.047	0.077	0.109	0.129	0.107	35.1
4-Nitrophenol			0.085	0.142	0.185	0.199	0.171	28.6
Dibenzofuran		1.786	1.832	1.805	1.604	1.618	1.662	8.9
2,4-Dinitrotoluene		0.225	0.322	0.364	0.366	0.371	0.339	15.8
Diethylphthalate		1.357	1.432	1.427	1.318	1.331	1.349	4.7
4-Chlorophenyl-phenylether		0.698	0.719	0.686	0.608	0.602	0.637	9.8
Fluorene		1.446	1.483	1.423	1.220	1.195	1.285	12.8
4-Nitroaniline		0.094	0.134	0.196	0.223	0.225	0.191	29.1
4,6-Dinitro-2-methylphenol			0.069	0.089	0.099	0.112	0.100	18.8
n-Nitrosodiphenylamine		0.637	0.641	0.669	0.613	0.627	0.631	3.2
Azobenzene		1.501	1.617	1.591	1.445	1.465	1.485	6.6
2,4,6-Tribromophenol		0.155	0.184	0.185	0.182	0.192	0.184	7.4
4-Bromophenyl-phenylether		0.222	0.218	0.230	0.217	0.227	0.225	2.5
Hexachlorobenzene		0.264	0.258	0.259	0.241	0.254	0.254	2.8
Atrazine		0.127	0.152	0.162	0.155	0.145	0.142	11.4
Pentachlorophenol		0.101	0.122	0.142	0.147	0.152	0.138	14.0
Phenanthrene		1.179	1.163	1.147	1.019	1.042	1.077	7.9
Anthracene		1.090	1.166	1.156	1.014	1.059	1.072	6.5
Carbazole		0.868	0.979	0.985	0.924	0.930	0.925	5.3
Di-n-butylphthalate		0.706	0.850	0.991	0.997	1.076	0.966	14.5
Fluoranthene		1.066	1.144	1.139	1.029	1.021	1.048	7.2
Benzidine		0.027	0.024	0.018	0.105	0.084	0.063	60.6
Pyrene		1.888	1.910	1.870	1.781	1.840	1.834	3.5
Terphenyl-d14		1.456	1.462	1.465	1.351	1.378	1.397	4.9
Butylbenzylphthalate		0.089	0.111	0.144	0.202	0.256	0.204	45.6
3,3-Dichlorobenzidine			0.126	0.195	0.268	0.312	0.264	33.2

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF021224 SAS No.: BF021224 SDG No.: BF021224

Instrument ID: Calibration Date(s): 2/12/2024

Calibration Time(s): 14:32

LAB FILE ID: RRF2.5 = BF137355.D RRF005 = BF137356.D RRF010 = BF137357.D
RRF020 = BF137358.D RRF040 = BF137359.D RRF050 = BF137360.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.331	1.406	1.424	1.374	1.407	1.391	2.2
Chrysene		1.469	1.457	1.435	1.366	1.417	1.423	2.5
Bis(2-ethylhexyl)phthalate		0.135	0.181	0.248	0.309	0.382	0.305	40.1
Di-n-octyl phthalate			0.286	0.412	0.558	0.714	0.628	41.0
Benzo(b)fluoranthene		1.220	1.402	1.388	1.229	1.308	1.310	5.3
Benzo(k)fluoranthene		1.278	1.278	1.331	1.263	1.208	1.247	4.8
Benzo(a)pyrene		1.002	1.082	1.130	1.093	1.115	1.095	4.1
Indeno(1,2,3-cd)pyrene		1.040	1.055	1.188	1.199	1.274	1.195	9.3
Dibenzo(a,h)anthracene		0.773	0.827	0.970	0.975	1.022	0.954	11.7
Benzo(g,h,i)perylene		0.912	0.881	1.000	0.990	1.041	1.001	8.3
1,2,4,5-Tetrachlorobenzene		0.636	0.634	0.631	0.574	0.592	0.603	4.9
1,4-Dioxane		0.727	0.732	0.713	0.674	0.704	0.704	3.1
2,3,4,6-Tetrachlorophenol		0.310	0.356	0.351	0.335	0.340	0.337	4.7
1-Methylnaphthalene		0.699	0.713	0.717	0.633	0.629	0.653	8.8

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF021224 SAS No.: BF021224 SDG NO.: BF021224

EPA Sample No.: SSTDICCC040 Date Analyzed: Feb 12 2024 12:00AM

Lab File ID: BF137359.D Time Analyzed: 18:26

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	189401	6.786	756072	8.06	401596	9.82
	UPPER LIMIT	378802	7.286	1512144	8.563	803192	10.322
	LOWER LIMIT	94700.5	6.286	378036	7.563	200798	9.322
	EPA SAMPLE NO.						
01	ICVBF021224	222433	6.78	895182	8.06	488851	9.82
02	PB158784BL	196571	6.78	808755	8.06	444916	9.82

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.

CHEMTECH

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF021224 SAS No.: BF021224 SDG NO.: BF021224

EPA Sample No.: SSTDICCC040 Date Analyzed: Feb 12 2024 12:00AM

Lab File ID: BF137359.D Time Analyzed: 18:26

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	189401	6.786	756072	8.06	401596	9.82
	UPPER LIMIT	378802	7.286	1512144	8.563	803192	10.322
	LOWER LIMIT	94700.5	6.286	378036	7.563	200798	9.322
	EPA SAMPLE NO.						
01	ICVBF021224	222433	6.78	895182	8.06	488851	9.82
02	PB158784BL	196571	6.78	808755	8.06	444916	9.82

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.

CHEMTECH

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF021224 SAS No.: BF021224 SDG NO.: BF021224

EPA Sample No.: SSTDICCC040 Date Analyzed: Feb 12 2024 12:00AM

Lab File ID: BF137359.D Time Analyzed: 18:26

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	697127	11.31	408360	13.968	380495	15.451
	UPPER LIMIT	1394254	11.81	816720	14.468	760990	15.951
	LOWER LIMIT	348563.5	10.81	204180	13.468	190247.5	14.951
	EPA SAMPLE NO.						
01	ICVBF021224	853807	11.31	493490	13.97	461893	15.45
02	PB158784BL	780549	11.31	457540	13.96	371795	15.45

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.

CHEMTECH

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF021224 SAS No.: BF021224 SDG NO.: BF021224

EPA Sample No.: SSTDICCC040 Date Analyzed: Feb 12 2024 12:00AM

Lab File ID: BF137359.D Time Analyzed: 18:26

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	697127	11.31	408360	13.968	380495	15.451
	UPPER LIMIT	1394254	11.81	816720	14.468	760990	15.951
	LOWER LIMIT	348563.5	10.81	204180	13.468	190247.5	14.951
	EPA SAMPLE NO.						
01	ICVBF021224	853807	11.31	493490	13.97	461893	15.45
02	PB158784BL	780549	11.31	457540	13.96	371795	15.45

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.

CHEMTECH

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

ICVBF021224

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF021224 SAS No.: BF021224 SDG NO.: BF021224

Lab File ID: BF137363.D Lab Sample ID: SSTDICV040

Instrument ID: BNA_F Date Extracted:

Matrix: (soil/water) Water Date Analyzed: 02/12/2024

Level: (low/med) LOW Time Analyzed: 18:26

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
ICVBF021224	SSTDICV040	BF137363.D	02/12/2024

COMMENTS:

CHEMTECH

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB158784BL

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF021224 SAS No.: BF021224 SDG NO.: BF021224

Lab File ID: BF137364.D Lab Sample ID: PB158784BL

Instrument ID: BNA_F Date Extracted: 02/02/2024

Matrix: (soil/water) Solid Date Analyzed: 02/12/2024

Level: (low/med) LOW Time Analyzed: 18:56

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED

COMMENTS:

CHEMTECH

Surrogate Summary

SW-846

SDG No.: BF021224

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
SSTDICV040	ICVBF021224	BF137363.D	2-Fluorophenol	150	81,300.00	54200	*	10	139
			Phenol-d6	150	79,200.00	52800	*	10	134
			Nitrobenzene-d5	100	81,873.00	81873	*	49	133
			2-Fluorobiphenyl	100	71,790.00	71790	*	52	132
			2,4,6-Tribromophenol	150	83,012.00	55341	*	32	145
			Terphenyl-d14	100	79,008.00	79008	*	36	145

CHEMTECH

Surrogate Summary

SW-846

SDG No.: BF021224

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB158784BL	PB158784BL	BF137364.D	2-Fluorophenol	150	135.38	90		18	112
			Phenol-d6	150	130.22	87		15	107
			Nitrobenzene-d5	100	93.32	93		18	107
			2-Fluorobiphenyl	100	83.67	84		20	109
			2,4,6-Tribromophenol	150	140.31	94		10	110
			Terphenyl-d14	100	89.50	90		14	112

CHEMTECH

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BF021224

Lab Code: CHEM SAS No.: BF021224 SDG NO.: BF021224

Lab File ID: BF137354.D DFTPP Injection Date: 02/12/2024

Instrument ID: BNA_F DFTPP Injection Time: 14:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.7
68	Less than 2.0% of mass 69	0.6 (1.4) 1
69	Mass 69 relative abundance	39.2
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	45.5
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	24
365	Greater than 1% of mass 198	3.1
441	Present, but less than mass 443	14.2
442	Greater than 50% of mass 198	91.5
443	15.0 - 24.0% of mass 442	17.4 (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
SSTDICC2.5	SSTDICC2.5	BF137355.D	02/12/2024	14:32
SSTDICC005	SSTDICC005	BF137356.D	02/12/2024	15:01
SSTDICC010	SSTDICC010	BF137357.D	02/12/2024	15:31
SSTDICC020	SSTDICC020	BF137358.D	02/12/2024	16:00
SSTDICCC040	SSTDICCC040	BF137359.D	02/12/2024	16:29
SSTDICC050	SSTDICC050	BF137360.D	02/12/2024	16:59
SSTDICC060	SSTDICC060	BF137361.D	02/12/2024	17:28
SSTDICC080	SSTDICC080	BF137362.D	02/12/2024	17:57
ICVBF021224	SSTDICV040	BF137363.D	02/12/2024	18:26
PB158784BL	PB158784BL	BF137364.D	02/12/2024	18:56