CHEMTECH
AN ALLIANCE TECHNICAL GROUP COMPANY
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF051524 SAS No.: BF051524 SDG No.: BF051524

Instrument ID: BNA_F Calibration Date/Time: 5/15/2024 12 10:28

Lab File ID: BF137921.D Init. Calib. Date(s):

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s):

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
n-Nitrosodimethylamine	0.505	0.505		0.0	
Pyridine	1.144	1.216		6.294	
2-Fluorophenol	1.177	1.157		-1.699	
Benzaldehyde	0.785	0.777		-1.019	
Aniline	1.297	1.379		6.322	
Phenol-d6	1.450	1.418		-2.207	
Phenol	1.464	1.442		-1.503	20.0
bis(2-Chloroethyl)ether	1.124	1.091		-2.936	
2-Chlorophenol	1.274	1.253		-1.648	
1,2-Dichlorobenzene	1.393	1.349		-3.159	
1,3-Dichlorobenzene	1.474	1.422		-3.528	
1,4-Dichlorobenzene	1.480	1.443		-2.5	20.0
Benzyl Alcohol	1.005	1.006		0.1	
2-Methylphenol	1.016	0.995		-2.067	
2,2-oxybis(1-Chloropropane)	1.382	1.355		-1.954	
Acetophenone	0.448	0.435		-2.902	
3+4-Methylphenols	1.331	1.309		-1.653	
n-Nitroso-di-n-propylamine	0.815	0.797	0.050	-2.209	
Nitrobenzene-d5	0.340	0.329		-3.235	
Hexachloroethane	0.501	0.486		-2.994	
Nitrobenzene	0.345	0.336		-2.609	
Isophorone	0.590	0.575		-2.542	
2-Nitrophenol	0.173	0.171		-1.156	20.0
2,4-Dimethylphenol	0.223	0.220		-1.345	
bis(2-Chloroethoxy)methane	0.357	0.343		-3.922	
2,4-Dichlorophenol	0.280	0.274		-2.143	20.0
1,2,4-Trichlorobenzene	0.313	0.303		-3.195	
Benzoic acid	0.189	0.185		-2.116	
Naphthalene	1.006	0.963		-4.274	
4-Chloroaniline	0.330	0.335		1.515	
Hexachlorobutadiene	0.198	0.193		-2.525	20.0
Caprolactam	0.081	0.085		4.938	
4-Chloro-3-methylphenol	0.285	0.283		-0.702	20.0
2-Methylnaphthalene	0.646	0.625		-3.251	
Hexachlorocyclopentadiene	0.207	0.205	0.050	-0.966	
2,4,6-Trichlorophenol	0.357	0.349		-2.241	20.0
2-Fluorobiphenyl	1.298	1.216		-6.317	
2,4,5-Trichlorophenol	0.390	0.388		-0.513	
1,1-Biphenyl	1.403	1.329		-5.274	

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Lab File ID: BF137921.D Init. Calib. Date(s):

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s):

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Chloronaphthalene	1.120	1.074		-4.107	
2-Nitroaniline	0.287	0.288		0.348	
Dimethylphthalate	1.254	1.218		-2.871	
Acenaphthylene	1.610	1.562		-2.981	
2,6-Dinitrotoluene	0.288	0.286		-0.694	
3-Nitroaniline	0.281	0.290		3.203	
Acenaphthene	1.064	1.040		-2.256	20.0
2,4-Dinitrophenol	0.129	0.137	0.050	6.202	
4-Nitrophenol	0.202	0.224	0.050	10.891	
Dibenzofuran	1.549	1.498		-3.292	
2,4-Dinitrotoluene	0.372	0.390		4.839	
Diethylphthalate	1.171	1.164		-0.598	
4-Chlorophenyl-phenylether	0.604	0.592		-1.987	
Fluorene	1.225	1.183		-3.429	
4-Nitroaniline	0.267	0.283		5.993	
4,6-Dinitro-2-methylphenol	0.115	0.117		1.739	
n-Nitrosodiphenylamine	0.613	0.573		-6.525	20.0
Azobenzene	1.065	1.043		-2.066	
2,4,6-Tribromophenol	0.202	0.206		1.98	
4-Bromophenyl-phenylether	0.219	0.208		-5.023	
Hexachlorobenzene	0.242	0.228		-5.785	
Atrazine	0.167	0.164		-1.796	
Pentachlorophenol	0.142	0.149		4.93	20.0
Phenanthrene	0.986	0.929		-5.781	
Anthracene	0.978	0.944		-3.476	
Carbazole	0.893	0.887		-0.672	
Di-n-butylphthalate	0.991	0.991		0.0	
Fluoranthene	1.000	0.998		-0.2	20.0
Benzidine	0.261	0.400		53.257	
Pyrene	1.749	1.682		-3.831	
Terphenyl-d14	1.357	1.288		-5.085	
Butylbenzylphthalate	0.528	0.557		5.492	
3,3-Dichlorobenzidine	0.351	0.355		1.14	
Benzo(a)anthracene	1.265	1.244		-1.66	
Chrysene	1.210	1.162		-3.967	
Bis(2-ethylhexyl)phthalate	0.663	0.700		5.581	
Di-n-octyl phthalate	0.896	0.931		3.906	20.0
Benzo(b)fluoranthene	1.158	1.151		-0.604	
Benzo(k)fluoranthene	1.138	1.119		-1.67	

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Instrument ID: BNA_F Calibration Date/Time: 5/15/2024 12 10:28

Lab File ID: BF137921.D Init. Calib. Date(s):

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s):

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Benzo(a)pyrene	0.989	0.977		-1.213	20.0
Indeno(1,2,3-cd)pyrene	1.285	1.226		-4.591	
Dibenzo(a,h)anthracene	1.062	1.004		-5.461	
Benzo(g,h,i)perylene	1.115	1.057		-5.202	
1,2,4,5-Tetrachlorobenzene	0.544	0.517		-4.963	
1,4-Dioxane	0.510	0.508		-0.392	20.0
2,3,4,6-Tetrachlorophenol	0.306	0.308		0.654	
1-Methylnaphthalene	0.635	0.610		-3.937	

All other compounds must meet a minimum RRF of 0.010.

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Report of Analysis

Client:				Date Collected:	5/14/2024 12:00:00 AM
Project:				Date Received:	5/14/2024 12:00:00 AM
Client Sample ID:	PB160863TB			SDG No.:	BF051524
Lab Sample ID:	PB160863TB			Matrix:	water
Analytical Method:	8270E			% Moisture:	100
Sample Wt/Vol:	100	Units:	mL	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
BF137922.D	1	5/14/2024 12:00:00 AM	5/15/2024 12:00:00 AM	PB160921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	10.3	U	10.3	80	100	ug/L
110-86-1	Pyridine	15.5	U	15.5	40	50	ug/L
100-52-7	Benzaldehyde	40	U	40	80	100	ug/L
62-53-3	Aniline	16	U	16	40	50	ug/L
108-95-2	Phenol	9.3	U	9.3	40	50	ug/L
111-44-4	bis(2-Chloroethyl)ether	11.9	U	11.9	40	50	ug/L
95-57-8	2-Chlorophenol	7.1	U	7.1	40	50	ug/L
95-50-1	1,2-Dichlorobenzene	8.8	U	8.8	40	50	ug/L
541-73-1	1,3-Dichlorobenzene	8	U	8	40	50	ug/L
106-46-7	1,4-Dichlorobenzene	8.4	U	8.4	40	50	ug/L
100-51-6	Benzyl Alcohol	16	U	16	80	100	ug/L
95-48-7	2-Methylphenol	11.3	U	11.3	40	50	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	13.5	U	13.5	40	50	ug/L
98-86-2	Acetophenone	11	U	11	40	50	ug/L
65794-96-9	3+4-Methylphenols	11.5	U	11.5	80	100	ug/L
621-64-7	n-Nitroso-di-n-propylamine	14.8	U	14.8	25	25	ug/L
67-72-1	Hexachloroethane	10.1	U	10.1	40	50	ug/L
98-95-3	Nitrobenzene	12.7	U	12.7	40	50	ug/L
78-59-1	Isophorone	11.4	U	11.4	40	50	ug/L
88-75-5	2-Nitrophenol	19.6	U	19.6	40	50	ug/L
105-67-9	2,4-Dimethylphenol	15.1	U	15.1	40	50	ug/L
111-91-1	bis(2-Chloroethoxy)methane	10.2	U	10.2	40	50	ug/L
120-83-2	2,4-Dichlorophenol	8.8	U	8.8	40	50	ug/L
120-82-1	1,2,4-Trichlorobenzene	11	U	11	40	50	ug/L
65-85-0	Benzoic acid	54.7	U	54.7	80	100	ug/L
91-20-3	Naphthalene	10.2	U	10.2	40	50	ug/L
106-47-8	4-Chloroaniline	13	U	13	40	50	ug/L
87-68-3	Hexachlorobutadiene	12.7	U	12.7	40	50	ug/L

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Report of Analysis

Client:				Date Collected:	5/14/2024 12:00:00 AM
Project:				Date Received:	5/14/2024 12:00:00 AM
Client Sample ID:	PB160863TB			SDG No.:	BF051524
Lab Sample ID:	PB160863TB			Matrix:	water
Analytical Method:	8270E			% Moisture:	100
Sample Wt/Vol:	100	Units:	mL	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
BF137922.D	1	5/14/2024 12:00:00 AM	5/15/2024 12:00:00 AM	PB160921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
105-60-2	Caprolactam	16.5	U	16.5	80	100	ug/L
59-50-7	4-Chloro-3-methylphenol	8.4	U	8.4	40	50	ug/L
91-57-6	2-Methylnaphthalene	11.3	U	11.3	40	50	ug/L
77-47-4	Hexachlorocyclopentadiene	50.2	U	50.2	80	100	ug/L
88-06-2	2,4,6-Trichlorophenol	8.9	U	8.9	40	50	ug/L
95-95-4	2,4,5-Trichlorophenol	10.1	U	10.1	40	50	ug/L
92-52-4	1,1-Biphenyl	9.1	U	9.1	40	50	ug/L
91-58-7	2-Chloronaphthalene	9.7	U	9.7	40	50	ug/L
88-74-4	2-Nitroaniline	14.1	U	14.1	40	50	ug/L
131-11-3	Dimethylphthalate	9.3	U	9.3	40	50	ug/L
208-96-8	Acenaphthylene	10.4	U	10.4	40	50	ug/L
606-20-2	2,6-Dinitrotoluene	12.4	U	12.4	40	50	ug/L
99-09-2	3-Nitroaniline	13.7	U	13.7	40	50	ug/L
83-32-9	Acenaphthene	8.1	U	8.1	40	50	ug/L
Total PAH	Total PAH	172.9	U	172.9	40	800	ug/L
51-28-5	2,4-Dinitrophenol	64.2	U	64.2	80	100	ug/L
100-02-7	4-Nitrophenol	20	U	20	80	100	ug/L
132-64-9	Dibenzofuran	9.3	U	9.3	40	50	ug/L
121-14-2	2,4-Dinitrotoluene	15.2	U	15.2	40	50	ug/L
25321-14-6	2,4-Dinitrotoluene/2,6-Dinitrotoluene (mixtur	27.6	U	27.6	40	100	ug/L
84-66-2	Diethylphthalate	10.4	U	10.4	40	50	ug/L
7005-72-3	4-Chlorophenyl-phenylether	9.8	U	9.8	40	50	ug/L
86-73-7	Fluorene	9.6	U	9.6	40	50	ug/L
100-01-6	4-Nitroaniline	20.4	U	20.4	40	50	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	30.7	U	30.7	80	100	ug/L
86-30-6	n-Nitrosodiphenylamine	8.9	U	8.9	40	50	ug/L
103-33-3	Azobenzene	12	U	12	40	50	ug/L
101-55-3	4-Bromophenyl-phenylether	9.5	U	9.5	40	50	ug/L
118-74-1	Hexachlorobenzene	11.4	U	11.4	40	50	ug/L
1912-24-9	Atrazine	12.6	U	12.6	40	50	ug/L

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Report of Analysis

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Project:				Date Received:	5/14/2024 12:00:00 AM
Client Sample ID:	PB160863TB			SDG No.:	BF051524
Lab Sample ID:	PB160863TB			Matrix:	water
Analytical Method:	8270E			% Moisture:	100
Sample Wt/Vol:	100	Units:	mL	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
BF137922.D	1	5/14/2024 12:00:00 AM	5/15/2024 12:00:00 AM	PB160921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
87-86-5	Pentachlorophenol	18.5	U	18.5	80	100	ug/L
85-01-8	Phenanthrene	8.9	U	8.9	40	50	ug/L
120-12-7	Anthracene	10.7	U	10.7	40	50	ug/L
86-74-8	Carbazole	11.5	U	11.5	40	50	ug/L
84-74-2	Di-n-butylphthalate	14.7	U	14.7	40	50	ug/L
206-44-0	Fluoranthene	12.9	U	12.9	40	50	ug/L
92-87-5	Benzidine	40.7	U	40.7	80	100	ug/L
129-00-0	Pyrene	10.6	U	10.6	40	50	ug/L
85-68-7	Butylbenzylphthalate	21	U	21	40	50	ug/L
91-94-1	3,3-Dichlorobenzidine	12.8	U	12.8	80	100	ug/L
56-55-3	Benzo(a)anthracene	9.4	U	9.4	40	50	ug/L
218-01-9	Chrysene	8.6	U	8.6	40	50	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	18.9	U	18.9	40	50	ug/L
117-84-0	Di-n-octyl phthalate	25	U	25	80	100	ug/L
205-99-2	Benzo(b)fluoranthene	11.4	U	11.4	40	50	ug/L
207-08-9	Benzo(k)fluoranthene	11.9	U	11.9	40	50	ug/L
50-32-8	Benzo(a)pyrene	16.7	U	16.7	40	50	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	10.2	U	10.2	40	50	ug/L
53-70-3	Dibenzo(a,h)anthracene	11.5	U	11.5	40	50	ug/L
191-24-2	Benzo(g,h,i)perylene	11.8	U	11.8	40	50	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	10.9	U	10.9	40	50	ug/L
123-91-1	1,4-Dioxane	12.5	U	12.5	40	50	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	7.9	U	7.9	40	50	ug/L
90-12-0	1-Methylnaphthalene	8.6	U	8.6	40	50	ug/L
SURROGATES							
367-12-4	2-Fluorophenol	132.534		10-139		88	SPK: -150
13127-88-3	Phenol-d6	128.307		10-134		86	SPK: -150
4165-60-0	Nitrobenzene-d5	87.131		49-133		87	SPK: -100
321-60-8	2-Fluorobiphenyl	85.932		52-132		86	SPK: -100

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Project:				Date Received:	5/14/2024 12:00:00 AM
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Lab Sample ID:	PB160863TB			Matrix:	water
Analytical Method:	8270E			% Moisture:	100
Sample Wt/Vol:	100	Units:	mL	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
BF137922.D	1	5/14/2024 12:00:00 AM	5/15/2024 12:00:00 AM	PB160921

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
118-79-6	2,4,6-Tribromophenol	140.894		32-145		94	SPK: -150
1718-51-0	Terphenyl-d14	85.929		36-145		86	SPK: -100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	140134	7.039				
1146-65-2	Naphthalene-d8	544312	8.322				
15067-26-2	Acenaphthene-d10	306967	10.08				
1517-22-2	Phenanthrene-d10	539909	11.574				
1719-03-5	Chrysene-d12	350829	14.221				
1520-96-3	Perylene-d12	275106	15.786				

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Hit Summary Sheet
SW-846

SDG No.: BF051524

Client:

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID :							

Total Concentration:

CHEMTECH

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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF051424 SAS No.: BF051424 SDG No.: BF051424

Instrument ID: Calibration Date(s): 5/14/2024

Calibration Time(s): 11:17

LAB FILE ID: RRF2.5 = BF137910.D RRF005 = BF137911.D RRF010 = BF137912.D
RRF020 = BF137913.D RRF040 = BF137914.D RRF050 = BF137915.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.503	0.501	0.516	0.496	0.495	0.505	1.8
Pyridine		1.050	1.087	1.182	1.160	1.147	1.144	4.8
2-Fluorophenol		1.264	1.212	1.237	1.157	1.118	1.177	5.3
Benzaldehyde			0.935	0.905	0.788	0.736	0.785	14.7
Aniline		1.265	1.259	1.333	1.293	1.279	1.297	2.5
Phenol-d6		1.601	1.511	1.525	1.414	1.372	1.450	6.6
Phenol		1.587	1.517	1.527	1.439	1.402	1.464	5.5
bis(2-Chloroethyl)ether		1.203	1.148	1.170	1.107	1.078	1.124	4.5
2-Chlorophenol		1.371	1.316	1.334	1.260	1.207	1.274	5.3
1,2-Dichlorobenzene		1.540	1.467	1.475	1.359	1.309	1.393	7.2
1,3-Dichlorobenzene		1.596	1.525	1.567	1.446	1.396	1.474	6.0
1,4-Dichlorobenzene		1.598	1.533	1.567	1.452	1.404	1.480	5.8
Benzyl Alcohol		1.024	0.995	1.045	1.012	0.980	1.005	2.4
2-Methylphenol		1.071	1.033	1.054	1.003	0.977	1.016	3.6
2,2-oxybis(1-Chloropropane)		1.475	1.427	1.444	1.371	1.317	1.382	4.9
Acetophenone		0.481	0.467	0.474	0.431	0.431	0.448	5.5
3+4-Methylphenols		1.456	1.382	1.411	1.315	1.261	1.331	6.5
n-Nitroso-di-n-propylamine	0.856	0.851	0.841	0.846	0.801	0.770	0.815	4.7
Nitrobenzene-d5		0.345	0.344	0.358	0.332	0.331	0.340	2.9
Hexachloroethane		0.524	0.500	0.531	0.500	0.480	0.501	4.1
Nitrobenzene		0.350	0.352	0.361	0.337	0.337	0.345	2.8
Isophorone		0.611	0.592	0.616	0.577	0.572	0.590	3.0
2-Nitrophenol		0.159	0.166	0.179	0.175	0.177	0.173	4.5
2,4-Dimethylphenol		0.226	0.220	0.232	0.220	0.221	0.223	2.0
bis(2-Chloroethoxy)methane		0.380	0.365	0.377	0.346	0.343	0.357	4.6
2,4-Dichlorophenol		0.273	0.283	0.296	0.280	0.274	0.280	2.8
1,2,4-Trichlorobenzene		0.334	0.316	0.329	0.304	0.300	0.313	4.4
Benzoic acid			0.148	0.177	0.190	0.195	0.189	12.9
Naphthalene		1.086	1.042	1.070	0.976	0.953	1.006	5.8
4-Chloroaniline		0.317	0.327	0.342	0.329	0.327	0.330	2.3
Hexachlorobutadiene		0.208	0.201	0.207	0.193	0.193	0.198	3.5
Caprolactam		0.080	0.080	0.081	0.083	0.079	0.081	2.3
4-Chloro-3-methylphenol		0.287	0.286	0.300	0.283	0.275	0.285	2.7
2-Methylnaphthalene		0.709	0.672	0.681	0.627	0.617	0.646	6.3
Hexachlorocyclopentadiene		0.171	0.176	0.210	0.213	0.220	0.207	11.4
2,4,6-Trichlorophenol		0.359	0.354	0.373	0.350	0.349	0.357	2.3

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.: BF051424 SAS No.: BF051424 SDG No.: BF051424

Instrument ID: Calibration Date(s): 5/14/2024

Calibration Time(s): 11:17

LAB FILE ID: RRF2.5 = BF137910.D RRF005 = BF137911.D RRF010 = BF137912.D
RRF020 = BF137913.D RRF040 = BF137914.D RRF050 = BF137915.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.483	1.396	1.402	1.218	1.212	1.298	9.6
2,4,5-Trichlorophenol		0.393	0.387	0.407	0.389	0.380	0.390	2.2
1,1-Biphenyl		1.537	1.454	1.489	1.333	1.336	1.403	6.3
2-Chloronaphthalene		1.204	1.155	1.187	1.075	1.072	1.120	5.4
2-Nitroaniline		0.272	0.279	0.294	0.290	0.282	0.287	3.2
Dimethylphthalate		1.348	1.294	1.306	1.227	1.187	1.254	4.9
Acenaphthylene		1.709	1.646	1.709	1.575	1.546	1.610	4.8
2,6-Dinitrotoluene		0.286	0.285	0.298	0.288	0.282	0.288	1.7
3-Nitroaniline		0.281	0.274	0.288	0.284	0.277	0.281	1.7
Acenaphthene		1.131	1.070	1.114	1.033	1.029	1.064	4.0
2,4-Dinitrophenol			0.079	0.110	0.138	0.139	0.129	22.9
4-Nitrophenol		0.163	0.187	0.206	0.218	0.209	0.202	10.3
Dibenzofuran		1.681	1.619	1.644	1.497	1.464	1.549	6.2
2,4-Dinitrotoluene		0.346	0.371	0.385	0.385	0.364	0.372	3.8
Diethylphthalate		1.255	1.208	1.214	1.165	1.110	1.171	4.8
4-Chlorophenyl-phenylether		0.649	0.637	0.631	0.593	0.573	0.604	5.6
Fluorene		1.368	1.279	1.277	1.194	1.147	1.225	7.0
4-Nitroaniline		0.255	0.269	0.265	0.279	0.262	0.267	3.0
4,6-Dinitro-2-methylphenol			0.088	0.110	0.120	0.122	0.115	12.9
n-Nitrosodiphenylamine		0.644	0.616	0.649	0.592	0.603	0.613	4.0
Azobenzene		1.144	1.091	1.118	1.049	1.009	1.065	4.9
2,4,6-Tribromophenol		0.206	0.203	0.207	0.205	0.194	0.202	2.4
4-Bromophenyl-phenylether		0.226	0.217	0.230	0.211	0.216	0.219	3.0
Hexachlorobenzene		0.259	0.241	0.253	0.232	0.239	0.242	4.1
Atrazine		0.187	0.185	0.179	0.170	0.156	0.167	10.3
Pentachlorophenol		0.103	0.129	0.148	0.153	0.152	0.142	13.5
Phenanthrene		1.079	1.030	1.041	0.947	0.945	0.986	6.4
Anthracene		1.053	1.008	1.036	0.946	0.941	0.978	5.5
Carbazole		0.961	0.929	0.939	0.875	0.851	0.893	5.4
Di-n-butylphthalate		1.027	1.023	1.020	1.006	0.955	0.991	3.5
Fluoranthene		1.097	1.081	1.039	1.004	0.942	1.000	7.5
Benzidine			0.115	0.118	0.373	0.324	0.261	43.6
Pyrene		1.711	1.660	1.888	1.661	1.739	1.749	4.8
Terphenyl-d14		1.416	1.330	1.458	1.280	1.332	1.357	4.5
Butylbenzylphthalate		0.478	0.493	0.526	0.550	0.535	0.528	6.0
3,3-Dichlorobenzidine		0.301	0.311	0.364	0.349	0.368	0.351	9.2

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.: BF051424 SAS No.: BF051424 SDG No.: BF051424

Instrument ID: Calibration Date(s): 5/14/2024

Calibration Time(s): 11:17

LAB FILE ID: RRF2.5 = BF137910.D RRF005 = BF137911.D RRF010 = BF137912.D
RRF020 = BF137913.D RRF040 = BF137914.D RRF050 = BF137915.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.278	1.270	1.317	1.230	1.232	1.265	2.3
Chrysene		1.269	1.211	1.261	1.165	1.171	1.210	3.4
Bis(2-ethylhexyl)phthalate		0.620	0.658	0.647	0.694	0.657	0.663	4.0
Di-n-octyl phthalate		0.780	0.803	0.833	0.931	0.933	0.896	10.2
Benzo(b)fluoranthene		1.198	1.187	1.165	1.207	1.110	1.158	3.7
Benzo(k)fluoranthene		1.233	1.210	1.193	1.127	1.071	1.138	6.5
Benzo(a)pyrene		0.978	0.948	1.018	0.996	0.975	0.989	2.4
Indeno(1,2,3-cd)pyrene		1.061	1.034	1.380	1.248	1.403	1.285	13.6
Dibenzo(a,h)anthracene		0.889	0.863	1.143	1.038	1.155	1.062	12.8
Benzo(g,h,i)perylene		0.931	0.895	1.202	1.070	1.223	1.115	13.5
1,2,4,5-Tetrachlorobenzene		0.587	0.547	0.567	0.518	0.527	0.544	4.7
1,4-Dioxane		0.531	0.510	0.525	0.507	0.488	0.510	2.8
2,3,4,6-Tetrachlorophenol		0.307	0.304	0.319	0.312	0.297	0.306	2.3
1-Methylnaphthalene		0.702	0.671	0.670	0.614	0.600	0.635	7.0

All other compounds must meet a minimum RRF of 0.010.

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF051524 SAS No.: BF051524 SDG NO.: BF051524

EPA Sample No.: SSTDICCC040 Date Analyzed: May 15 2024 12:00AM

Lab File ID: BF137914.D Time Analyzed: 10:57

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	142006	7.045	550835	8.33	311581	10.09
	UPPER LIMIT	284012	7.545	1101670	8.828	623162	10.586
	LOWER LIMIT	71003	6.545	275417.5	7.828	155790.5	9.586
	EPA SAMPLE NO.						
01	PB160863TB	140134	7.04	544312	8.32	306967	10.08

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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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF051524 SAS No.: BF051524 SDG NO.: BF051524

EPA Sample No.: SSTDCCC040 Date Analyzed: May 15 2024 12:00AM

Lab File ID: BF137921.D Time Analyzed: 10:57

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	139201	7.045	537412	8.33	302139	10.09
	UPPER LIMIT	278402	7.545	1074824	8.828	604278	10.586
	LOWER LIMIT	69600.5	6.545	268706	7.828	151069.5	9.586
	EPA SAMPLE NO.						
01	PB160863TB	140134	7.04	544312	8.32	306967	10.08

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.: BF051524 SAS No.: BF051524 SDG NO.: BF051524

EPA Sample No.: SSTDICCC040 Date Analyzed: May 15 2024 12:00AM

Lab File ID: BF137914.D Time Analyzed: 10:57

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	535112	11.58	324526	14.227	256022	15.786
	UPPER LIMIT	1070224	12.08	649052	14.727	512044	16.286
	LOWER LIMIT	267556	11.08	162263	13.727	128011	15.286
	EPA SAMPLE NO.						
01	PB160863TB	539909	11.57	350829	14.22	275106	15.79

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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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BF051524 SAS No.: BF051524 SDG NO.: BF051524

EPA Sample No.: SSTDCCC040 Date Analyzed: May 15 2024 12:00AM

Lab File ID: BF137921.D Time Analyzed: 10:57

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	527428	11.58	319086	14.227	266336	15.786
	UPPER LIMIT	1054856	12.08	638172	14.727	532672	16.286
	LOWER LIMIT	263714	11.08	159543	13.727	133168	15.286
	EPA SAMPLE NO.						
01	PB160863TB	539909	11.57	350829	14.22	275106	15.79

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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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB160863TB

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BF051524 SAS No.: BF051524 SDG NO.: BF051524

Lab File ID: BF137922.D Lab Sample ID: PB160863TB

Instrument ID: BNA_F Date Extracted: 05/14/2024

Matrix: (soil/water) water Date Analyzed: 05/15/2024

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
PB160863TB	PB160863TB	BF137922.D	05/15/2024

COMMENTS:

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Surrogate Summary

SW-846

SDG No.: BF051524

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB160863TB	PB160863TB	BF137922.D	2-Fluorophenol	150	132.53	88		10	139
			Phenol-d6	150	128.31	86		10	134
			Nitrobenzene-d5	100	87.13	87		49	133
			2-Fluorobiphenyl	100	85.93	86		52	132
			2,4,6-Tribromophenol	150	140.89	94		32	145
			Terphenyl-d14	100	85.93	86		36	145

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BF051524

Lab Code: CHEM SAS No.: BF051524 SDG NO.: BF051524

Lab File ID: BF137920.D DFTPP Injection Date: 05/15/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:59

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	30.5
68	Less than 2.0% of mass 69	0.6 (1.8) 1
69	Mass 69 relative abundance	32.8
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	46.6
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	6.8
275	10.0 - 60.0% of mass 198	29
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	13.9
442	Greater than 50% of mass 198	87.2
443	15.0 - 24.0% of mass 442	17.3 (19.8) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF137921.D	05/15/2024	10:28
PB160863TB	PB160863TB	BF137922.D	05/15/2024	10:57