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.: BG050924 SAS No.: BG050924 SDG No.: BG050924

Instrument ID: BNA_G Calibration Date/Time: 5/9/2024 12: 11:32

Lab File ID: BG061147.D Init. Calib. Date(s):

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
n-Nitrosodimethylamine	1.124	0.908		-19.217	
Pyridine	1.170	0.955		-18.376	
2-Fluorophenol	0.983	0.989		0.61	
Benzaldehyde	0.820	0.876		6.829	
Aniline	1.442	1.333		-7.559	
Phenol-d6	1.455	1.434		-1.443	
Phenol	1.479	1.420		-3.989	20.0
bis(2-Chloroethyl)ether	1.022	1.009		-1.272	
2-Chlorophenol	1.206	1.143		-5.224	
1,2-Dichlorobenzene	1.418	1.382		-2.539	
1,3-Dichlorobenzene	1.422	1.394		-1.969	
1,4-Dichlorobenzene	1.470	1.416		-3.673	20.0
Benzyl Alcohol	1.312	1.175		-10.442	
2-Methylphenol	1.054	1.020		-3.226	
2,2-oxybis(1-Chloropropane)	2.218	2.278		2.705	
Acetophenone	0.498	0.501		0.602	
3+4-Methylphenols	1.521	1.437		-5.523	
n-Nitroso-di-n-propylamine	1.089	1.027	0.050	-5.693	
Nitrobenzene-d5	0.403	0.408		1.241	
Hexachloroethane	0.525	0.521		-0.762	
Nitrobenzene	0.395	0.405		2.532	
Isophorone	0.746	0.713		-4.424	
2-Nitrophenol	0.187	0.184		-1.604	20.0
2,4-Dimethylphenol	0.216	0.211		-2.315	
bis(2-Chloroethoxy)methane	0.366	0.373		1.913	
2,4-Dichlorophenol	0.338	0.327		-3.254	20.0
1,2,4-Trichlorobenzene	0.407	0.411		0.983	
Benzoic acid	0.249	0.153		-38.554	
Naphthalene	1.039	1.015		-2.31	
4-Chloroaniline	0.415	0.383		-7.711	
Hexachlorobutadiene	0.349	0.357		2.292	20.0
Caprolactam	0.122	0.100		-18.033	
4-Chloro-3-methylphenol	0.407	0.376		-7.617	20.0
2-Methylnaphthalene	0.779	0.740		-5.006	
Hexachlorocyclopentadiene	0.256	0.254	0.050	-0.781	
2,4,6-Trichlorophenol	0.429	0.403		-6.061	20.0
2-Fluorobiphenyl	1.353	1.387		2.513	
2,4,5-Trichlorophenol	0.485	0.438		-9.691	
1,1-Biphenyl	1.282	1.295		1.014	

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Lab File ID: BG061147.D Init. Calib. Date(s):

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Chloronaphthalene	1.027	1.044		1.655	
2-Nitroaniline	0.381	0.375		-1.575	
Dimethylphthalate	1.545	1.461		-5.437	
Acenaphthylene	1.577	1.544		-2.093	
2,6-Dinitrotoluene	0.330	0.318		-3.636	
3-Nitroaniline	0.302	0.286		-5.298	
Acenaphthene	0.984	0.968		-1.626	20.0
2,4-Dinitrophenol	0.213	0.182	0.050	-14.554	
4-Nitrophenol	0.244	0.201	0.050	-17.623	
Dibenzofuran	1.662	1.619		-2.587	
2,4-Dinitrotoluene	0.489	0.464		-5.112	
Diethylphthalate	1.558	1.423		-8.665	
4-Chlorophenyl-phenylether	0.863	0.823		-4.635	
Fluorene	1.438	1.385		-3.686	
4-Nitroaniline	0.328	0.316		-3.659	
4,6-Dinitro-2-methylphenol	0.124	0.126		1.613	
n-Nitrosodiphenylamine	0.496	0.502		1.21	20.0
Azobenzene	1.213	1.154		-4.864	
2,4,6-Tribromophenol	0.400	0.354		-11.5	
4-Bromophenyl-phenylether	0.236	0.244		3.39	
Hexachlorobenzene	0.293	0.291		-0.683	
Atrazine	0.205	0.178		-13.171	
Pentachlorophenol	0.180	0.163		-9.444	20.0
Phenanthrene	0.914	0.902		-1.313	
Anthracene	0.913	0.903		-1.095	
Carbazole	0.802	0.790		-1.496	
Di-n-butylphthalate	0.954	0.935		-1.992	
Fluoranthene	1.253	1.224		-2.314	20.0
Benzidine	0.328	0.309		-5.793	
Pyrene	1.272	1.246		-2.044	
Terphenyl-d14	1.203	1.167		-2.993	
Butylbenzylphthalate	0.402	0.400		-0.498	
3,3-Dichlorobenzidine	0.471	0.462		-1.911	
Benzo(a)anthracene	1.309	1.281		-2.139	
Chrysene	1.226	1.189		-3.018	
Bis(2-ethylhexyl)phthalate	0.526	0.545		3.612	
Di-n-octyl phthalate	0.927	0.926		-0.108	20.0
Benzo(b)fluoranthene	1.118	1.083		-3.131	
Benzo(k)fluoranthene	1.075	1.029		-4.279	

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Instrument ID: BNA_G Calibration Date/Time: 5/9/2024 12: 11:32

Lab File ID: BG061147.D Init. Calib. Date(s):

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

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Benzo(a)pyrene	0.974	0.950		-2.464	20.0
Indeno(1,2,3-cd)pyrene	1.325	1.308		-1.283	
Dibenzo(a,h)anthracene	1.098	1.079		-1.73	
Benzo(g,h,i)perylene	1.091	1.067		-2.2	
1,2,4,5-Tetrachlorobenzene	0.667	0.691		3.598	
1,4-Dioxane	0.398	0.337		-15.327	20.0
2,3,4,6-Tetrachlorophenol	0.499	0.442		-11.423	
1-Methylnaphthalene	0.784	0.724		-7.653	

All other compounds must meet a minimum RRF of 0.010.

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Hit Summary Sheet
SW-846

SDG No.: BG050924

Client:

Sample ID	Client ID	Matrix	Parameter		Concentration	C	MDL	RDL	Units
Client ID :	**1011UMR-SS004-0212-01**								
P2414-01	1011UMR-SS004-0212-0	Solid	1-Phenoxypropan-2-ol	*	110.000	J			
P2414-01	1011UMR-SS004-0212-0	Solid	9-Octadecenamide, (Z)-	*	200.000	J			
P2414-01	1011UMR-SS004-0212-0	Solid	Butane, 2-methoxy-2-methyl-	*	2,200.000	J			
P2414-01	1011UMR-SS004-0212-0	Solid	Hexadecyl propyl ether	*	120.000	J			
P2414-01	1011UMR-SS004-0212-0	Solid	Tridecanoic acid	*	120.000	J			
P2414-01	1011UMR-SS004-0212-0	Solid	unknown14.760	*	91.500	J			
P2414-01	1011UMR-SS004-0212-0	Solid	unknown14.777	*	120.000	J			
P2414-01	1011UMR-SS004-0212-0	Solid	unknown3.673	*	230.000	J			
			Total Tics :		**3,191.50**				
P2414-01	1011UMR-SS004-0212-0	Solid	Benzo(b)fluoranthene		110.000	J	98.1	210	ug/Kg
P2414-01	1011UMR-SS004-0212-0	Solid	Fluoranthene		140.000	J	98.8	210	ug/Kg
P2414-01	1011UMR-SS004-0212-0	Solid	Pyrene		120.000	J	100	210	ug/Kg
			Total Svoc :		**370.00**				
			Total Concentration:		**3,561.50**				
Client ID :	**1011UMR-SS005-0212-01**								
P2415-01	1011UMR-SS005-0212-0	Solid	Butane, 2-methoxy-2-methyl-	*	2,300.000	J			
			Total Tics :		**2,300.00**				
			Total Concentration:		**2,300.00**				

CHEMTECH

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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BG043024 SAS No.: BG043024 SDG No.: BG043024

Instrument ID: Calibration Date(s): 4/30/2024

Calibration Time(s): 10:51

LAB FILE ID: RRF2.5 = BG061058.D RRF005 = BG061059.D RRF010 = BG061060.D
RRF020 = BG061061.D RRF040 = BG061062.D RRF050 = BG061063.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		1.074	1.202	1.072	1.152	1.114	1.124	4.0
Pyridine		1.143	1.136	1.111	1.242	1.182	1.170	3.8
2-Fluorophenol		0.992	0.989	0.925	1.023	0.978	0.983	3.0
Benzaldehyde		0.983	0.996	0.908	0.803	0.714	0.820	17.7
Aniline		1.346	1.419	1.530	1.452	1.450	1.442	4.5
Phenol-d6		1.375	1.382	1.540	1.466	1.433	1.455	4.3
Phenol		1.388	1.415	1.569	1.465	1.481	1.479	4.3
bis(2-Chloroethyl)ether		0.972	1.012	1.106	1.007	0.991	1.022	4.2
2-Chlorophenol		1.121	1.211	1.271	1.228	1.178	1.206	3.9
1,2-Dichlorobenzene		1.419	1.393	1.467	1.415	1.386	1.418	1.9
1,3-Dichlorobenzene		1.396	1.425	1.559	1.419	1.379	1.422	4.4
1,4-Dichlorobenzene		1.491	1.467	1.553	1.496	1.411	1.470	3.3
Benzyl Alcohol		1.295	1.158	1.446	1.302	1.282	1.312	6.7
2-Methylphenol		0.958	1.041	1.012	1.095	1.065	1.054	5.2
2,2-oxybis(1-Chloropropane)		2.139	2.208	2.110	2.241	2.221	2.218	3.3
Acetophenone		0.499	0.485	0.525	0.491	0.485	0.498	2.7
3+4-Methylphenols		1.355	1.528	1.476	1.560	1.535	1.521	5.6
n-Nitroso-di-n-propylamine	1.009	1.200	1.057	1.035	1.069	1.104	1.089	5.6
Nitrobenzene-d5		0.410	0.390	0.417	0.388	0.401	0.403	2.9
Hexachloroethane		0.507	0.569	0.469	0.564	0.516	0.525	6.5
Nitrobenzene		0.384	0.377	0.415	0.392	0.392	0.395	3.3
Isophorone		0.791	0.764	0.772	0.705	0.711	0.746	4.3
2-Nitrophenol		0.180	0.189	0.190	0.181	0.184	0.187	2.7
2,4-Dimethylphenol		0.205	0.213	0.226	0.208	0.220	0.216	3.5
bis(2-Chloroethoxy)methane		0.383	0.366	0.381	0.348	0.354	0.366	3.5
2,4-Dichlorophenol		0.333	0.323	0.357	0.328	0.334	0.338	3.6
1,2,4-Trichlorobenzene		0.415	0.390	0.429	0.396	0.396	0.407	3.4
Benzoic acid		0.195	0.224	0.275	0.248	0.263	0.249	11.9
Naphthalene		1.080	1.019	1.090	1.017	0.996	1.039	3.4
4-Chloroaniline		0.400	0.398	0.439	0.404	0.412	0.415	3.7
Hexachlorobutadiene		0.355	0.358	0.360	0.332	0.341	0.349	2.9
Caprolactam		0.134	0.128	0.128	0.112	0.114	0.122	6.8
4-Chloro-3-methylphenol		0.392	0.418	0.426	0.401	0.390	0.407	3.4
2-Methylnaphthalene		0.768	0.797	0.823	0.755	0.749	0.779	3.3
Hexachlorocyclopentadiene		0.203	0.212	0.248	0.285	0.272	0.256	13.8
2,4,6-Trichlorophenol		0.414	0.403	0.431	0.442	0.428	0.429	3.5

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.: BG043024 SAS No.: BG043024 SDG No.: BG043024

Instrument ID: Calibration Date(s): 4/30/2024

Calibration Time(s): 10:51

LAB FILE ID: RRF2.5 = BG061058.D RRF005 = BG061059.D RRF010 = BG061060.D
RRF020 = BG061061.D RRF040 = BG061062.D RRF050 = BG061063.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorobiphenyl		1.340	1.312	1.362	1.384	1.332	1.353	1.9
2,4,5-Trichlorophenol		0.452	0.470	0.505	0.500	0.486	0.485	3.9
1,1-Biphenyl		1.306	1.244	1.285	1.306	1.258	1.282	1.9
2-Chloronaphthalene		1.018	0.983	1.048	1.061	1.017	1.027	2.6
2-Nitroaniline		0.380	0.370	0.374	0.389	0.379	0.381	1.9
Dimethylphthalate		1.647	1.534	1.593	1.552	1.492	1.545	3.8
Acenaphthylene		1.571	1.507	1.619	1.620	1.558	1.577	2.5
2,6-Dinitrotoluene		0.354	0.326	0.323	0.338	0.326	0.330	3.5
3-Nitroaniline		0.317	0.305	0.319	0.299	0.289	0.302	3.9
Acenaphthene		0.984	0.937	1.017	1.009	0.971	0.984	2.7
2,4-Dinitrophenol		0.185	0.180	0.203	0.227	0.234	0.213	11.1
4-Nitrophenol		0.261	0.238	0.239	0.255	0.242	0.244	3.9
Dibenzofuran		1.695	1.651	1.684	1.695	1.640	1.662	1.7
2,4-Dinitrotoluene		0.477	0.491	0.513	0.506	0.487	0.489	3.3
Diethylphthalate		1.711	1.561	1.602	1.575	1.487	1.558	5.3
4-Chlorophenyl-phenylether		0.873	0.881	0.886	0.871	0.844	0.863	2.2
Fluorene		1.449	1.426	1.482	1.485	1.397	1.438	2.4
4-Nitroaniline		0.321	0.327	0.347	0.338	0.325	0.328	3.2
4,6-Dinitro-2-methylphenol		0.113	0.112	0.128	0.124	0.129	0.124	6.8
n-Nitrosodiphenylamine		0.489	0.480	0.517	0.484	0.490	0.496	2.8
Azobenzene		1.260	1.217	1.235	1.235	1.167	1.213	2.7
2,4,6-Tribromophenol		0.409	0.395	0.409	0.409	0.391	0.400	2.2
4-Bromophenyl-phenylether		0.219	0.223	0.243	0.234	0.237	0.236	4.7
Hexachlorobenzene		0.297	0.287	0.296	0.284	0.287	0.293	2.5
Atrazine		0.232	0.209	0.211	0.200	0.197	0.205	7.0
Pentachlorophenol		0.155	0.163	0.185	0.185	0.183	0.180	8.6
Phenanthrene		0.937	0.896	0.932	0.913	0.898	0.914	1.7
Anthracene		0.904	0.890	0.952	0.909	0.891	0.913	2.4
Carbazole		0.855	0.832	0.805	0.801	0.772	0.802	4.0
Di-n-butylphthalate		1.022	0.960	0.965	0.965	0.916	0.954	3.9
Fluoranthene		1.360	1.283	1.278	1.238	1.209	1.253	4.7
Benzidine		0.179	0.208	0.349	0.413	0.386	0.328	28.8
Pyrene		1.267	1.237	1.307	1.264	1.264	1.272	1.8
Terphenyl-d14		1.219	1.172	1.264	1.185	1.181	1.203	2.6
Butylbenzylphthalate		0.405	0.379	0.417	0.404	0.397	0.402	3.0
3,3-Dichlorobenzidine		0.482	0.451	0.486	0.472	0.463	0.471	2.5

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.: BG043024 SAS No.: BG043024 SDG No.: BG043024

Instrument ID: Calibration Date(s): 4/30/2024

Calibration Time(s): 10:51

LAB FILE ID: RRF2.5 = BG061058.D RRF005 = BG061059.D RRF010 = BG061060.D
RRF020 = BG061061.D RRF040 = BG061062.D RRF050 = BG061063.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Benzo(a)anthracene		1.383	1.264	1.336	1.282	1.282	1.309	3.1
Chrysene		1.301	1.204	1.233	1.200	1.196	1.226	3.0
Bis(2-ethylhexyl)phthalate		0.524	0.497	0.529	0.521	0.516	0.526	3.4
Di-n-octyl phthalate		0.929	0.858	0.938	0.933	0.922	0.927	3.8
Benzo(b)fluoranthene		1.164	1.062	1.145	1.081	1.092	1.118	3.5
Benzo(k)fluoranthene		1.160	1.053	1.086	1.062	1.036	1.075	3.7
Benzo(a)pyrene		1.043	0.922	0.988	0.951	0.945	0.974	4.0
Indeno(1,2,3-cd)pyrene		1.380	1.256	1.345	1.298	1.297	1.325	3.2
Dibenzo(a,h)anthracene		1.136	1.051	1.120	1.070	1.070	1.098	3.0
Benzo(g,h,i)perylene		1.110	1.057	1.107	1.076	1.066	1.091	2.2
1,2,4,5-Tetrachlorobenzene		0.680	0.612	0.682	0.681	0.656	0.667	4.1
1,4-Dioxane		0.457	0.464	0.337	0.401	0.367	0.398	11.8
2,3,4,6-Tetrachlorophenol		0.499	0.484	0.518	0.516	0.488	0.499	2.6
1-Methylnaphthalene		0.834	0.773	0.824	0.740	0.750	0.784	4.5

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.: BG050924 SAS No.: BG050924 SDG NO.: BG050924

EPA Sample No.: SSTDICCC040 Date Analyzed: May 9 2024 12:00AM

Lab File ID: BG061062.D Time Analyzed: 12:13

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	19701	7.961	90057	10.76	76062	14.59
	UPPER LIMIT	39402	8.461	180114	11.258	152124	15.089
	LOWER LIMIT	9850.5	7.461	45028.5	10.258	38031	14.089
	EPA SAMPLE NO.						
01	PB160779BL	19930	7.94	77812	10.73	63422	14.56
02	PB160779BS	21774	7.94	86858	10.73	71759	14.57
03	PB160807BL	19555	7.93	75352	10.73	63392	14.56
04	1011UMR-SS004-0212-01	23668	7.93	89335	10.72	68169	14.56
05	1011UMR-SS004-0212-01MS	23166	7.93	94564	10.73	74643	14.57
06	1011UMR-SS004-0212-01MSD	23734	7.93	93928	10.73	73218	14.56
07	PE-3	26710	7.94	100511	10.73	74826	14.56
08	PE-4	25611	7.94	96022	10.73	71419	14.56
09	1011UMR-SS005-0212-01	26427	7.94	101097	10.73	75252	14.56
10	PE-2	28083	7.93	105304	10.73	78640	14.57
11	PE-1	28567	7.94	108422	10.73	76272	14.57

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.: BG050924 SAS No.: BG050924 SDG NO.: BG050924

EPA Sample No.: SSTDCCC040 Date Analyzed: May 9 2024 12:00AM

Lab File ID: BG061147.D Time Analyzed: 12:13

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	22486	7.934	92311	10.73	75630	14.57
	UPPER LIMIT	44972	8.434	184622	11.231	151260	15.068
	LOWER LIMIT	11243	7.434	46155.5	10.231	37815	14.068
	EPA SAMPLE NO.						
01	PB160779BL	19930	7.94	77812	10.73	63422	14.56
02	PB160779BS	21774	7.94	86858	10.73	71759	14.57
03	PB160807BL	19555	7.93	75352	10.73	63392	14.56
04	1011UMR-SS004-0212-01	23668	7.93	89335	10.72	68169	14.56
05	1011UMR-SS004-0212-01MS	23166	7.93	94564	10.73	74643	14.57
06	1011UMR-SS004-0212-01MSD	23734	7.93	93928	10.73	73218	14.56
07	PE-3	26710	7.94	100511	10.73	74826	14.56
08	PE-4	25611	7.94	96022	10.73	71419	14.56
09	1011UMR-SS005-0212-01	26427	7.94	101097	10.73	75252	14.56
10	PE-2	28083	7.93	105304	10.73	78640	14.57
11	PE-1	28567	7.94	108422	10.73	76272	14.57

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.: BG050924 SAS No.: BG050924 SDG NO.: BG050924

EPA Sample No.: SSTDICCC040 Date Analyzed: May 9 2024 12:00AM

Lab File ID: BG061062.D Time Analyzed: 12:13

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	210074	17.333	211272	21.592	244242	24.73
	UPPER LIMIT	420148	17.833	422544	22.092	488484	25.23
	LOWER LIMIT	105037	16.833	105636	21.092	122121	24.23
	EPA SAMPLE NO.						
01	PB160779BL	176354	17.31	188665	21.57	216731	24.70
02	PB160779BS	180959	17.31	181682	21.57	206802	24.70
03	PB160807BL	181132	17.31	188728	21.57	213998	24.70
04	1011UMR-SS004-0212-01	167531	17.31	171588	21.57	204342	24.70
05	1011UMR-SS004-0212-01MS	173610	17.31	175805	21.57	208581	24.70
06	1011UMR-SS004-0212-01MSD	172416	17.31	176175	21.57	203153	24.70
07	PE-3	170479	17.31	177685	21.57	219591	24.69
08	PE-4	158877	17.31	168595	21.57	206918	24.69
09	1011UMR-SS005-0212-01	181381	17.31	184090	21.57	215819	24.69
10	PE-2	165431	17.33	166457	21.58	192286	24.70
11	PE-1	164042	17.32	166694	21.58	199605	24.70

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.: BG050924 SAS No.: BG050924 SDG NO.: BG050924

EPA Sample No.: SSTDCCC040 Date Analyzed: May 9 2024 12:00AM

Lab File ID: BG061147.D Time Analyzed: 12:13

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	182468	17.312	185496	21.577	219082	24.697
	UPPER LIMIT	364936	17.812	370992	22.077	438164	25.197
	LOWER LIMIT	91234	16.812	92748	21.077	109541	24.197
	EPA SAMPLE NO.						
01	PB160779BL	176354	17.31	188665	21.57	216731	24.70
02	PB160779BS	180959	17.31	181682	21.57	206802	24.70
03	PB160807BL	181132	17.31	188728	21.57	213998	24.70
04	1011UMR-SS004-0212-01	167531	17.31	171588	21.57	204342	24.70
05	1011UMR-SS004-0212-01MS	173610	17.31	175805	21.57	208581	24.70
06	1011UMR-SS004-0212-01MSD	172416	17.31	176175	21.57	203153	24.70
07	PE-3	170479	17.31	177685	21.57	219591	24.69
08	PE-4	158877	17.31	168595	21.57	206918	24.69
09	1011UMR-SS005-0212-01	181381	17.31	184090	21.57	215819	24.69
10	PE-2	165431	17.33	166457	21.58	192286	24.70
11	PE-1	164042	17.32	166694	21.58	199605	24.70

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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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: BG050924

Client:

Analytical Method: 8270E **DataFile:**

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB160779BS	n-Nitrosodimethylamine	1700	1200	ug/Kg	71				57	103	
	Pyridine	1700	960	ug/Kg	56				28	98	
	Benzaldehyde	1700		ug/Kg	0		*		10	147	
	Aniline	1700	1100	ug/Kg	65				38	100	
	Phenol	1700	1600	ug/Kg	94				62	112	
	bis(2-Chloroethyl)ether	1700	1500	ug/Kg	88				60	101	
	2-Chlorophenol	1700	1600	ug/Kg	94				65	112	
	1,2-Dichlorobenzene	1700	1400	ug/Kg	82				51	102	
	1,3-Dichlorobenzene	1700	1400	ug/Kg	82				52	99	
	1,4-Dichlorobenzene	1700	1400	ug/Kg	82				52	100	
	Benzyl Alcohol	1700	1500	ug/Kg	88				42	116	
	2-Methylphenol	1700	1600	ug/Kg	94				61	108	
	2,2-oxybis(1-Chloropropane)	1700	1600	ug/Kg	94				51	100	
	Acetophenone	1700	1500	ug/Kg	88				55	104	
	3+4-Methylphenols	1700	1500	ug/Kg	88				58	111	
	N-Nitroso-di-n-propylamine	1700	1400	ug/Kg	82				63	95	
	Hexachloroethane	1700	1400	ug/Kg	82				72	108	
	Nitrobenzene	1700	1500	ug/Kg	88				57	101	
	Isophorone	1700	1400	ug/Kg	82				59	99	
	2-Nitrophenol	1700	1600	ug/Kg	94				61	111	
	2,4-Dimethylphenol	1700	1700	ug/Kg	100				67	119	
	bis(2-Chloroethoxy)methane	1700	1600	ug/Kg	94				53	105	
	2,4-Dichlorophenol	1700	1600	ug/Kg	94				62	107	
	1,2,4-Trichlorobenzene	1700	1500	ug/Kg	88				44	110	
	Benzoic acid	1700	950	ug/Kg	56				10	140	
	Naphthalene	1700	1500	ug/Kg	88				62	100	
	4-Chloroaniline	1700	970	ug/Kg	57				16	100	
	Hexachlorobutadiene	1700	1500	ug/Kg	88				53	98	
	Caprolactam	1700	1400	ug/Kg	82				67	110	
	4-Chloro-3-methylphenol	1700	1500	ug/Kg	88				58	112	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				60	104	
	Hexachlorocyclopentadiene	3300	4300	ug/Kg	130				45	134	
	2,4,6-Trichlorophenol	1700	1600	ug/Kg	94				59	102	
	2,4,5-Trichlorophenol	1700	1500	ug/Kg	88				61	98	
	1,1-Biphenyl	1700	1600	ug/Kg	94				57	103	
	2-Chloronaphthalene	1700	1600	ug/Kg	94				58	99	
	2-Nitroaniline	1700	1500	ug/Kg	88				66	101	
	Dimethylphthalate	1700	1500	ug/Kg	88				61	99	
	Acenaphthylene	1700	1700	ug/Kg	100				63	101	
	2,6-Dinitrotoluene	1700	1500	ug/Kg	88				61	104	
	3-Nitroaniline	1700	1100	ug/Kg	65				28	100	
	Acenaphthene	1700	1500	ug/Kg	88				57	104	
	Total PAH	27200	25500	ug/Kg	94				57	104	
	2,4-Dinitrophenol	3300	2800	ug/Kg	85				37	128	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: BG050924

Client:

Analytical Method: 8270E **DataFile:**

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB160779BS	4-Nitrophenol	3300	2900	ug/Kg	88				48	119	
	Dibenzofuran	1700	1500	ug/Kg	88				63	99	
	2,4-Dinitrotoluene	1700	1500	ug/Kg	88				60	106	
	2,4-Dinitrotoluene/2,6-Dinitrotc	3400	3000	ug/Kg	88				60	106	
	Diethylphthalate	1700	1500	ug/Kg	88				60	101	
	4-Chlorophenyl-phenylether	1700	1500	ug/Kg	88				58	98	
	Fluorene	1700	1500	ug/Kg	88				61	101	
	4-Nitroaniline	1700	1400	ug/Kg	82				64	103	
	4,6-Dinitro-2-methylphenol	1700	1600	ug/Kg	94				76	113	
	N-Nitrosodiphenylamine	1700	1600	ug/Kg	94				56	107	
	Azobenzene	1700	1600	ug/Kg	94				54	103	
	4-Bromophenyl-phenylether	1700	1600	ug/Kg	94				55	99	
	Hexachlorobenzene	1700	1500	ug/Kg	88				64	98	
	Atrazine	1700	1800	ug/Kg	106				67	113	
	Pentachlorophenol	3300	2500	ug/Kg	76				67	105	
	Phenanthrene	1700	1600	ug/Kg	94				59	103	
	Anthracene	1700	1600	ug/Kg	94				61	105	
	Carbazole	1700	1600	ug/Kg	94				61	99	
	Di-n-butylphthalate	1700	1600	ug/Kg	94				58	104	
	Fluoranthene	1700	1600	ug/Kg	94				57	107	
	Benzidine	3300	830	ug/Kg	25				10	98	
	Pyrene	1700	1600	ug/Kg	94				59	103	
	Butylbenzylphthalate	1700	1600	ug/Kg	94				55	103	
	3,3-Dichlorobenzidine	1700	1100	ug/Kg	65				42	91	
	Benzo(a)anthracene	1700	1600	ug/Kg	94				60	102	
	Chrysene	1700	1600	ug/Kg	94				59	101	
	bis(2-Ethylhexyl)phthalate	1700	1700	ug/Kg	100				63	111	
	Di-n-octyl phthalate	1700	1600	ug/Kg	94				70	108	
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				62	109	
	Benzo(k)fluoranthene	1700	1600	ug/Kg	94				62	109	
	Benzo(a)pyrene	1700	1700	ug/Kg	100				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1700	ug/Kg	100				63	101	
	Dibenz(a,h)anthracene	1700	1600	ug/Kg	94				61	112	
	Benzo(g,h,i)perylene	1700	1600	ug/Kg	94				70	108	
	1,2,4,5-Tetrachlorobenzene	1700	1600	ug/Kg	94				53	101	
	1,4-Dioxane	1700	990	ug/Kg	58				50	96	
	2,3,4,6-Tetrachlorophenol	1700	1500	ug/Kg	88				59	108	
	1-Methylnaphthalene	1700	1300	ug/Kg	76				70	130	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB160779BL

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BG050924 SAS No.: BG050924 SDG NO.: BG050924

Lab File ID: BG061148.D Lab Sample ID: PB160779BL

Instrument ID: BNA_G Date Extracted: 05/08/2024

Matrix: (soil/water) Solid Date Analyzed: 05/09/2024

Level: (low/med) LOW Time Analyzed: 12:13

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB160779BS	PB160779BS	BG061149.D	05/09/2024

COMMENTS:

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB160807BL

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BG050924 SAS No.: BG050924 SDG NO.: BG050924

Lab File ID: BG061150.D Lab Sample ID: PB160807BL

Instrument ID: BNA_G Date Extracted: 05/09/2024

Matrix: (soil/water) Solid Date Analyzed: 05/09/2024

Level: (low/med) LOW Time Analyzed: 13:37

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
1011UMR-SS004-0212-01	P2414-01	BG061151.D	05/09/2024
1011UMR-SS004-0212-01MS	P2414-01MS	BG061152.D	05/09/2024
1011UMR-SS004-0212-01MSD	P2414-01MSD	BG061153.D	05/09/2024
PE-3	P2390-07	BG061154.D	05/09/2024
PE-4	P2390-08	BG061155.D	05/09/2024
1011UMR-SS005-0212-01	P2415-01	BG061156.D	05/09/2024
PE-2	P2391-05	BG061157.D	05/09/2024
PE-1	P2391-04	BG061158.D	05/09/2024

COMMENTS:

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: BG050924

Client:

Analytical Method: 8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P2414-01MS		**Client Sample ID: 1011UMR-SS004-0212-01MS**						**DataFile: BG061152.D**			
n-Nitrosodimethylamine	2000		1300	ug/Kg	65	*			66	124	
Pyridine	2000		1200	ug/Kg	60				45	119	
Benzaldehyde	2000		790	ug/Kg	40				26	163	
Aniline	2000		1000	ug/Kg	50				10	88	
Phenol	2000		1800	ug/Kg	90				67	126	
bis(2-Chloroethyl)ether	2000		1700	ug/Kg	85				74	116	
2-Chlorophenol	2000		1800	ug/Kg	90				61	138	
1,2-Dichlorobenzene	2000		1700	ug/Kg	85				61	105	
1,3-Dichlorobenzene	2000		1700	ug/Kg	85				62	101	
1,4-Dichlorobenzene	2000		1700	ug/Kg	85				63	104	
Benzyl Alcohol	2000		1700	ug/Kg	85				47	126	
2-Methylphenol	2000		1800	ug/Kg	90				66	122	
2,2-oxybis(1-Chloropropane)	2000		1800	ug/Kg	90				52	115	
Acetophenone	2000		1700	ug/Kg	85				75	111	
3+4-Methylphenols	2000		1700	ug/Kg	85				53	132	
N-Nitroso-di-n-propylamine	2000		1500	ug/Kg	75				59	119	
Hexachloroethane	2000		1700	ug/Kg	85				65	117	
Nitrobenzene	2000		1700	ug/Kg	85				70	119	
Isophorone	2000		1500	ug/Kg	75	*			76	122	
2-Nitrophenol	2000		1800	ug/Kg	90				54	145	
2,4-Dimethylphenol	2000		1900	ug/Kg	95				83	144	
bis(2-Chloroethoxy)methane	2000		1700	ug/Kg	85				68	112	
2,4-Dichlorophenol	2000		1800	ug/Kg	90				72	118	
1,2,4-Trichlorobenzene	2000		1800	ug/Kg	90				57	103	
Benzoic acid	2000		980	ug/Kg	49	*			50	104	
Naphthalene	2000		1700	ug/Kg	85				72	110	
4-Chloroaniline	2000		980	ug/Kg	49				10	100	
Hexachlorobutadiene	2000		1700	ug/Kg	85				66	114	
Caprolactam	2000		1400	ug/Kg	70				51	134	
4-Chloro-3-methylphenol	2000		1700	ug/Kg	85				57	132	
2-Methylnaphthalene	2000		1700	ug/Kg	85				59	123	
Hexachlorocyclopentadiene	4000		2600	ug/Kg	65				10	175	
2,4,6-Trichlorophenol	2000		1800	ug/Kg	90				72	117	
2,4,5-Trichlorophenol	2000		1800	ug/Kg	90				72	117	
1,1-Biphenyl	2000		1800	ug/Kg	90				75	113	
2-Chloronaphthalene	2000		1800	ug/Kg	90				67	118	
2-Nitroaniline	2000		1800	ug/Kg	90				69	127	
Dimethylphthalate	2000		1700	ug/Kg	85				70	113	
Acenaphthylene	2000		1900	ug/Kg	95				79	118	
2,6-Dinitrotoluene	2000		1600	ug/Kg	80				70	125	
3-Nitroaniline	2000		1300	ug/Kg	65				20	111	
Acenaphthene	2000		1700	ug/Kg	85				70	121	
Total PAH	32000	0	28600	ug/Kg	89				70	121	
2,4-Dinitrophenol	4000		2000	ug/Kg	50				16	160	
4-Nitrophenol	4000		3100	ug/Kg	78				45	133	
Dibenzofuran	2000		1800	ug/Kg	90				72	110	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: BG050924

Client:

Analytical Method: 8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
2,4-Dinitrotoluene	2000		1600	ug/Kg	80				55	128	
2,4-Dinitrotoluene/2,6-Dinitrotol	4000		3200	ug/Kg	80				55	128	
Diethylphthalate	2000		1600	ug/Kg	80				70	112	
4-Chlorophenyl-phenylether	2000		1700	ug/Kg	85				71	108	
Fluorene	2000		1700	ug/Kg	85				68	116	
4-Nitroaniline	2000		1600	ug/Kg	80				55	120	
4,6-Dinitro-2-methylphenol	2000		1400	ug/Kg	70				32	145	
N-Nitrosodiphenylamine	2000		1900	ug/Kg	95				73	118	
Azobenzene	2000		1800	ug/Kg	90				73	110	
4-Bromophenyl-phenylether	2000		1900	ug/Kg	95				65	121	
Hexachlorobenzene	2000		1800	ug/Kg	90				67	118	
Atrazine	2000		2000	ug/Kg	100				79	127	
Pentachlorophenol	4000		3000	ug/Kg	75				47	128	
Phenanthrene	2000		1900	ug/Kg	95				72	113	
Anthracene	2000		1900	ug/Kg	95				62	124	
Carbazole	2000		1800	ug/Kg	90				59	119	
Di-n-butylphthalate	2000		1800	ug/Kg	90				69	118	
Fluoranthene	2000	140	1900	ug/Kg	88				59	125	
Benzidine	4000		2100	ug/Kg	52				10	119	
Pyrene	2000	120	1900	ug/Kg	89				52	128	
Butylbenzylphthalate	2000		1800	ug/Kg	90				64	126	
3,3-Dichlorobenzidine	2000		1300	ug/Kg	65				10	164	
Benzo(a)anthracene	2000		1900	ug/Kg	95				71	114	
Chrysene	2000	0	1900	ug/Kg	95				57	121	
bis(2-Ethylhexyl)phthalate	2000		1900	ug/Kg	95				66	127	
Di-n-octyl phthalate	2000		1900	ug/Kg	95				71	126	
Benzo(b)fluoranthene	2000	110	1800	ug/Kg	85				67	121	
Benzo(k)fluoranthene	2000		1900	ug/Kg	95				74	114	
Benzo(a)pyrene	2000	0	1900	ug/Kg	95				70	142	
Indeno(1,2,3-cd)pyrene	2000		1600	ug/Kg	80				61	125	
Dibenz(a,h)anthracene	2000		1600	ug/Kg	80				67	130	
Benzo(g,h,i)perylene	2000		1400	ug/Kg	70				53	140	
1,2,4,5-Tetrachlorobenzene	2000		2000	ug/Kg	100				69	124	
1,4-Dioxane	2000		1200	ug/Kg	60				46	112	
2,3,4,6-Tetrachlorophenol	2000		1700	ug/Kg	85				56	133	
1-Methylnaphthalene	2000		1500	ug/Kg	75				70	130	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: BG050924

Client:

Analytical Method: 8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P2414-01MSD		**Client Sample ID: 1011UMR-SS004-0212-01MSD**						**DataFile: BG061153.D**			
n-Nitrosodimethylamine	2000		1400	ug/Kg	70		7		66	124	20
Pyridine	2000		1300	ug/Kg	65		8		45	119	20
Benzaldehyde	2000		940	ug/Kg	47		16		26	163	20
Aniline	2000		1000	ug/Kg	50		0		10	88	20
Phenol	2000		2000	ug/Kg	100		11		67	126	20
bis(2-Chloroethyl)ether	2000		1900	ug/Kg	95		11		74	116	20
2-Chlorophenol	2000		2000	ug/Kg	100		11		61	138	20
1,2-Dichlorobenzene	2000		1900	ug/Kg	95		11		61	105	20
1,3-Dichlorobenzene	2000		1900	ug/Kg	95		11		62	101	20
1,4-Dichlorobenzene	2000		1900	ug/Kg	95		11		63	104	20
Benzyl Alcohol	2000		1800	ug/Kg	90		6		47	126	20
2-Methylphenol	2000		1900	ug/Kg	95		5		66	122	20
2,2-oxybis(1-Chloropropane)	2000		2000	ug/Kg	100		11		52	115	20
Acetophenone	2000		2000	ug/Kg	100		16		75	111	20
3+4-Methylphenols	2000		1800	ug/Kg	90		6		53	132	20
N-Nitroso-di-n-propylamine	2000		1700	ug/Kg	85		13		59	119	20
Hexachloroethane	2000		1900	ug/Kg	95		11		65	117	20
Nitrobenzene	2000		1900	ug/Kg	95		11		70	119	20
Isophorone	2000		1700	ug/Kg	85		13		76	122	20
2-Nitrophenol	2000		1900	ug/Kg	95		5		54	145	20
2,4-Dimethylphenol	2000		2200	ug/Kg	110		15		83	144	20
bis(2-Chloroethoxy)methane	2000		1900	ug/Kg	95		11		68	112	20
2,4-Dichlorophenol	2000		2000	ug/Kg	100		11		72	118	20
1,2,4-Trichlorobenzene	2000		2000	ug/Kg	100		11		57	103	20
Benzoic acid	2000		1100	ug/Kg	55		12		50	104	20
Naphthalene	2000		1900	ug/Kg	95		11		72	110	20
4-Chloroaniline	2000		1000	ug/Kg	50		2		10	100	20
Hexachlorobutadiene	2000		1900	ug/Kg	95		11		66	114	20
Caprolactam	2000		1600	ug/Kg	80		13		51	134	20
4-Chloro-3-methylphenol	2000		1800	ug/Kg	90		6		57	132	20
2-Methylnaphthalene	2000		1900	ug/Kg	95		11		59	123	20
Hexachlorocyclopentadiene	4000		2700	ug/Kg	68		5		10	175	20
2,4,6-Trichlorophenol	2000		2000	ug/Kg	100		11		72	117	20
2,4,5-Trichlorophenol	2000		1900	ug/Kg	95		5		72	117	20
1,1-Biphenyl	2000		2000	ug/Kg	100		11		75	113	20
2-Chloronaphthalene	2000		2000	ug/Kg	100		11		67	118	20
2-Nitroaniline	2000		2000	ug/Kg	100		11		69	127	20
Dimethylphthalate	2000		1800	ug/Kg	90		6		70	113	20
Acenaphthylene	2000		2100	ug/Kg	105		10		79	118	20
2,6-Dinitrotoluene	2000		1800	ug/Kg	90		12		70	125	20
3-Nitroaniline	2000		1300	ug/Kg	65		0		20	111	20
Acenaphthene	2000		1900	ug/Kg	95		11		70	121	20
Total PAH	32000	0	31700	ug/Kg	99		11		70	121	20
2,4-Dinitrophenol	4000		2100	ug/Kg	52		4		16	160	20
4-Nitrophenol	4000		3300	ug/Kg	83		6		45	133	20
Dibenzofuran	2000		2000	ug/Kg	100		11		72	110	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: BG050924

Client:

Analytical Method: 8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
2,4-Dinitrotoluene	2000		1800	ug/Kg	90		12		55	128	20
2,4-Dinitrotoluene/2,6-Dinitrotol	4000		3600	ug/Kg	90		12		55	128	20
Diethylphthalate	2000		1800	ug/Kg	90		12		70	112	20
4-Chlorophenyl-phenylether	2000		1900	ug/Kg	95		11		71	108	20
Fluorene	2000		1900	ug/Kg	95		11		68	116	20
4-Nitroaniline	2000		1700	ug/Kg	85		6		55	120	20
4,6-Dinitro-2-methylphenol	2000		1500	ug/Kg	75		7		32	145	20
N-Nitrosodiphenylamine	2000		2100	ug/Kg	105		10		73	118	20
Azobenzene	2000		1900	ug/Kg	95		5		73	110	20
4-Bromophenyl-phenylether	2000		2100	ug/Kg	105		10		65	121	20
Hexachlorobenzene	2000		2000	ug/Kg	100		11		67	118	20
Atrazine	2000		2200	ug/Kg	110		10		79	127	20
Pentachlorophenol	4000		3200	ug/Kg	80		6		47	128	20
Phenanthrene	2000		2100	ug/Kg	105		10		72	113	20
Anthracene	2000		2100	ug/Kg	105		10		62	124	20
Carbazole	2000		2000	ug/Kg	100		11		59	119	20
Di-n-butylphthalate	2000		1900	ug/Kg	95		5		69	118	20
Fluoranthene	2000	140	2000	ug/Kg	93		6		59	125	20
Benzidine	4000		2200	ug/Kg	55		6		10	119	20
Pyrene	2000	120	2000	ug/Kg	94		5		52	128	20
Butylbenzylphthalate	2000		2000	ug/Kg	100		11		64	126	20
3,3-Dichlorobenzidine	2000		1400	ug/Kg	70		7		10	164	20
Benzo(a)anthracene	2000		2100	ug/Kg	105		10		71	114	20
Chrysene	2000	0	2100	ug/Kg	105		10		57	121	20
bis(2-Ethylhexyl)phthalate	2000		2100	ug/Kg	105		10		66	127	20
Di-n-octyl phthalate	2000		2100	ug/Kg	105		10		71	126	20
Benzo(b)fluoranthene	2000	110	2000	ug/Kg	95		11		67	121	20
Benzo(k)fluoranthene	2000		2100	ug/Kg	105		10		74	114	20
Benzo(a)pyrene	2000	0	2200	ug/Kg	110		15		70	142	20
Indeno(1,2,3-cd)pyrene	2000		1900	ug/Kg	95		17		61	125	20
Dibenz(a,h)anthracene	2000		1700	ug/Kg	85		6		67	130	20
Benzo(g,h,i)perylene	2000		1600	ug/Kg	80		13		53	140	20
1,2,4,5-Tetrachlorobenzene	2000		2200	ug/Kg	110		10		69	124	20
1,4-Dioxane	2000		1400	ug/Kg	70		15		46	112	20
2,3,4,6-Tetrachlorophenol	2000		1800	ug/Kg	90		6		56	133	20
1-Methylnaphthalene	2000		1700	ug/Kg	85		13		70	130	20

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Surrogate Summary

SW-846

SDG No.: BG050924

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB160779BL	PB160779BL	BG061148.D	2-Fluorophenol	150	157.30	105		18	112
			Phenol-d6	150	142.70	95		15	107
			Nitrobenzene-d5	100	91.07	91		18	107
			2-Fluorobiphenyl	100	93.05	93		20	109
			2,4,6-Tribromophenol	150	135.18	90		10	110
			Terphenyl-d14	100	91.85	92		14	112
PB160779BS	PB160779BS	BG061149.D	2-Fluorophenol	150	149.93	100		18	112
			Phenol-d6	150	136.93	91		15	107
			Nitrobenzene-d5	100	86.28	86		18	107
			2-Fluorobiphenyl	100	89.05	89		20	109
			2,4,6-Tribromophenol	150	128.51	86		10	110
			Terphenyl-d14	100	88.91	89		14	112

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Surrogate Summary

SW-846

SDG No.: BG050924

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P2390-07	PE-3	BG061154.D	2-Fluorophenol	150	93.82	63		18	112
			Phenol-d6	150	87.36	58		15	107
			Nitrobenzene-d5	100	62.00	62		18	107
			2-Fluorobiphenyl	100	60.45	60		20	109
			2,4,6-Tribromophenol	150	83.44	56		10	110
			Terphenyl-d14	100	51.62	52		14	112
P2390-08	PE-4	BG061155.D	2-Fluorophenol	150	83.31	56		18	112
			Phenol-d6	150	75.79	51		15	107
			Nitrobenzene-d5	100	54.89	55		18	107
			2-Fluorobiphenyl	100	51.92	52		20	109
			2,4,6-Tribromophenol	150	71.50	48		10	110
			Terphenyl-d14	100	45.17	45		14	112
P2391-04	PE-1	BG061158.D	2-Fluorophenol	150	48.16	32		18	112
			Phenol-d6	150	51.84	35		15	107
			Nitrobenzene-d5	100	41.18	41		18	107
			2-Fluorobiphenyl	100	45.26	45		20	109
			2,4,6-Tribromophenol	150	47.72	32		10	110
			Terphenyl-d14	100	48.98	49		14	112
P2391-05	PE-2	BG061157.D	2-Fluorophenol	150	77.09	51		18	112
			Phenol-d6	150	70.33	47		15	107
			Nitrobenzene-d5	100	48.28	48		18	107
			2-Fluorobiphenyl	100	52.04	52		20	109
			2,4,6-Tribromophenol	150	55.16	37		10	110
			Terphenyl-d14	100	53.90	54		14	112
P2414-01	1011UMR-SS004-0	BG061151.D	2-Fluorophenol	150	122.43	82		18	112
			Phenol-d6	150	110.73	74		15	107
			Nitrobenzene-d5	100	79.48	79		18	107
			2-Fluorobiphenyl	100	80.00	80		20	109
			2,4,6-Tribromophenol	150	114.33	76		10	110
			Terphenyl-d14	100	72.72	73		14	112
P2414-01MS	1011UMR-SS004-0	BG061152.D	2-Fluorophenol	150	113.37	76		18	112
			Phenol-d6	150	104.96	70		15	107
			Nitrobenzene-d5	100	64.74	65		18	107
			2-Fluorobiphenyl	100	66.72	67		20	109
			2,4,6-Tribromophenol	150	98.20	65		10	110
			Terphenyl-d14	100	62.75	63		14	112
P2414-01MSD	1011UMR-SS004-0	BG061153.D	2-Fluorophenol	150	125.57	84		18	112
			Phenol-d6	150	114.24	76		15	107
			Nitrobenzene-d5	100	74.60	75		18	107
			2-Fluorobiphenyl	100	75.53	76		20	109
			2,4,6-Tribromophenol	150	106.69	71		10	110
			Terphenyl-d14	100	68.78	69		14	112
P2415-01	1011UMR-SS005-0	BG061156.D	2-Fluorophenol	150	105.59	70		18	112
			Phenol-d6	150	93.80	63		15	107
			Nitrobenzene-d5	100	65.71	66		18	107
			2-Fluorobiphenyl	100	67.14	67		20	109
			2,4,6-Tribromophenol	150	78.53	52		10	110
			Terphenyl-d14	100	59.80	60		14	112
PB160807BL	PB160807BL	BG061150.D	2-Fluorophenol	150	160.85	107		18	112

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Surrogate Summary

SW-846

SDG No.: BG050924

Client:

Analytical Method: 8270E

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB160807BL	PB160807BL	BG061150.D	Phenol-d6	150	145.56	97		15	107
			Nitrobenzene-d5	100	92.87	93		18	107
			2-Fluorobiphenyl	100	92.63	93		20	109
			2,4,6-Tribromophenol	150	136.95	91		10	110
			Terphenyl-d14	100	96.01	96		14	112

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BG050924

Lab Code: CHEM SAS No.: BG050924 SDG NO.: BG050924

Lab File ID: BG061146.D DFTPP Injection Date: 05/09/2024

Instrument ID: BNA_G DFTPP Injection Time: 10:51

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	27.2
68	Less than 2.0% of mass 69	0.2 (1.1) 1
69	Mass 69 relative abundance	21.2
70	Less than 2.0% of mass 69	0.1 (0.3) 1
127	10.0 - 80.0% of mass 198	26.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5
275	10.0 - 60.0% of mass 198	26.7
365	Greater than 1% of mass 198	4.7
441	Present, but less than mass 443	15.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.6 (18.6) 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	BG061147.D	05/09/2024	11:32
PB160779BL	PB160779BL	BG061148.D	05/09/2024	12:13
PB160779BS	PB160779BS	BG061149.D	05/09/2024	12:54
PB160807BL	PB160807BL	BG061150.D	05/09/2024	13:37
1011UMR-SS004-0212-01	P2414-01	BG061151.D	05/09/2024	14:48
1011UMR-SS004-0212-01MS	P2414-01MS	BG061152.D	05/09/2024	15:29
1011UMR-SS004-0212-01MSD	P2414-01MSD	BG061153.D	05/09/2024	16:09
PE-3	P2390-07	BG061154.D	05/09/2024	16:51
PE-4	P2390-08	BG061155.D	05/09/2024	17:32
1011UMR-SS005-0212-01	P2415-01	BG061156.D	05/09/2024	18:13
PE-2	P2391-05	BG061157.D	05/09/2024	18:54
PE-1	P2391-04	BG061158.D	05/09/2024	19:36