

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BM080824 SAS No.: BM080824 SDG No.: BM080824

Instrument ID: BNA_M Calibration Date/Time: 8/8/2024 12:09:10

Lab File ID: BM047079.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4196 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.451	0.484	0.010	7.4883	40.0
1,4-Dioxane-d8	0.403	0.433	0.010	7.4518	40.0
Naphthalene	1.045	1.025	0.600	-1.8713	30.0
1-Methylnaphthalene	0.713	0.686	0.300	-3.8063	30.0
2-Methylnaphthalene	0.682	0.652	0.300	-4.4624	30.0
Acenaphthylene	1.855	1.850	0.900	-0.3101	30.0
Acenaphthene	1.263	1.285	0.500	1.7156	30.0
Fluorene	1.470	1.465	0.700	-0.3334	30.0
Pentachlorophenol	0.127	0.110	0.010	-13.4122	50.0
Phenanthrene	1.152	1.101	0.300	-4.4169	30.0
Anthracene	1.028	0.967	0.400	-5.9766	30.0
Fluoranthene	1.622	1.644	0.400	1.3927	30.0
Pyrene	1.697	1.694	0.500	-0.1867	30.0
Benzo (a) anthracene	1.469	1.415	0.400	-3.646	30.0
Chrysene	1.558	1.521	0.400	-2.3867	30.0
Benzo (b) fluoranthene	1.589	1.489	0.200	-6.3113	30.0
Benzo (k) fluoranthene	1.661	1.573	0.200	-5.2864	30.0
Benzo (a) pyrene	1.255	1.226	0.200	-2.3037	30.0
Indeno (1,2,3-cd) pyrene	1.908	1.828	0.200	-4.1521	30.0
Dibenzo (a,h) anthracene	1.484	1.408	0.200	-5.125	30.0
Benzo (g,h,i) perylene	1.580	1.545	0.200	-2.2333	30.0
Fluoranthene-d10	1.156	1.215	0.400	5.0834	30.0
2-Methylnaphthalene-d10	0.597	0.572	0.300	-4.0983	30.0

All other compounds must meet a minimum RRF of 0.010.

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BM080824 SAS No.: BM080824 SDG No.: BM080824

Instrument ID: BNA_M Calibration Date/Time: 8/8/2024 12:12:43

Lab File ID: BM047084.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4197 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.451	0.510	0.010	13.1376	50.0
1,4-Dioxane-d8	0.403	0.422	0.010	4.6711	50.0
Naphthalene	1.045	1.017	0.600	-2.6544	50.0
1-Methylnaphthalene	0.713	0.692	0.300	-2.9815	50.0
2-Methylnaphthalene	0.682	0.659	0.300	-3.3375	50.0
Acenaphthylene	1.855	1.809	0.900	-2.5	50.0
Acenaphthene	1.263	1.276	0.500	0.9879	50.0
Fluorene	1.470	1.487	0.700	1.1551	50.0
Pentachlorophenol	0.127	0.118	0.010	-7.0392	50.0
Phenanthrene	1.152	1.101	0.300	-4.4005	50.0
Anthracene	1.028	0.970	0.400	-5.6331	50.0
Fluoranthene	1.622	1.569	0.400	-3.2389	50.0
Pyrene	1.697	1.634	0.500	-3.6758	50.0
Benzo (a) anthracene	1.469	1.374	0.400	-6.5011	50.0
Chrysene	1.558	1.491	0.400	-4.3216	50.0
Benzo (b) fluoranthene	1.589	1.589	0.200	0.0193	50.0
Benzo (k) fluoranthene	1.661	1.615	0.200	-2.7987	50.0
Benzo (a) pyrene	1.255	1.223	0.200	-2.5755	50.0
Indeno (1,2,3-cd) pyrene	1.908	1.822	0.200	-4.4738	50.0
Dibenzo (a,h) anthracene	1.484	1.400	0.200	-5.6357	50.0
Benzo (g,h,i) perylene	1.580	1.535	0.200	-2.8749	50.0
Fluoranthene-d10	1.156	1.150	0.400	-0.4666	50.0
2-Methylnaphthalene-d10	0.597	0.580	0.300	-2.8283	50.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	8/1/2024 12:00:00 AM
Project:		Date Received:	8/1/2024 12:00:00 AM
Client Sample ID:	SBLK452	SDG No.:	BM080824
Lab Sample ID:	PB162452BL	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000 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
BM047080.D	1	8/1/2024 12:00:00 AM	8/8/2024 12:00:00 AM	PB162452

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.029	U	0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.0043	U	0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.015	U	0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.0053	U	0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.012	U	0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.0074	U	0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.0067	U	0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.063	U	0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.0068	U	0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.008	U	0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.0079	U	0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.006	U	0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.0036	U	0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.0077	U	0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.013	U	0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.0098	U	0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.017	U	0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.017	U	0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.014	U	0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.022	U	0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.257		15-120		66	SPK: -8
93951-69-0	Fluoranthene-d10	0.279		30-130		70	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.245		30-130		61	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7178	7.393				
1146-65-2	Naphthalene-d8	22826	10.146				
15067-26-2	Acenaphthene-d10	11898	14.045				

Report of Analysis

Client:		Date Collected:	8/1/2024 12:00:00 AM
Project:		Date Received:	8/1/2024 12:00:00 AM
Client Sample ID:	SBLK452	SDG No.:	BM080824
Lab Sample ID:	PB162452BL	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000 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
BM047080.D	1	8/1/2024 12:00:00 AM	8/8/2024 12:00:00 AM	PB162452

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	25535	16.805				
1719-03-5	Chrysene-d12	18105	21.03				
1520-96-3	Perylene-d12	16093	23.128				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	7/29/2024 12:00:00 AM
Project:		Date Received:	7/29/2024 12:00:00 AM
Client Sample ID:	E1GF7	SDG No.:	BM080824
Lab Sample ID:	P3401-11	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000 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
BM047081.D	1	8/1/2024 12:00:00 AM	8/8/2024 12:00:00 AM	PB162452

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.029	U	0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.08	J	0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.015	U	0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.0053	U	0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.012	U	0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.0074	U	0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.0067	U	0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.063	U	0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.0068	U	0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.008	U	0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.0079	U	0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.006	U	0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.0036	U	0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.02	J	0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.03	J	0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.02	J	0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.017	U	0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.017	U	0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.014	U	0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.022	U	0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.148		15-120		64	SPK: -8
93951-69-0	Fluoranthene-d10	0.458		30-130		114	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.405		30-130		101	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5912		7.393			
1146-65-2	Naphthalene-d8	19859		10.146			
15067-26-2	Acenaphthene-d10	11378		14.045			

Report of Analysis

Client:		Date Collected:	7/29/2024 12:00:00 AM
Project:		Date Received:	7/29/2024 12:00:00 AM
Client Sample ID:	E1GF7	SDG No.:	BM080824
Lab Sample ID:	P3401-11	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000 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
BM047081.D	1	8/1/2024 12:00:00 AM	8/8/2024 12:00:00 AM	PB162452

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	25301	16.805				
1719-03-5	Chrysene-d12	18053	21.027				
1520-96-3	Perylene-d12	15548	23.128				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	7/30/2024 12:00:00 AM
Project:		Date Received:	7/30/2024 12:00:00 AM
Client Sample ID:	E1GF8	SDG No.:	BM080824
Lab Sample ID:	P3401-12	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000 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
BM047082.D	1	8/1/2024 12:00:00 AM	8/8/2024 12:00:00 AM	PB162452

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.029	U	0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.05	J	0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.015	U	0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.0053	U	0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.012	U	0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.0074	U	0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.0067	U	0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.07	J	0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.0068	U	0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.008	U	0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.0079	U	0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.006	U	0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.0036	U	0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.03	J	0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.03	J	0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.02	J	0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.017	U	0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.017	U	0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.014	U	0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.022	U	0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.882		15-120		74	SPK: -8
93951-69-0	Fluoranthene-d10	0.48		30-130		120	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.418		30-130		104	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5182		7.393			
1146-65-2	Naphthalene-d8	16527		10.146			
15067-26-2	Acenaphthene-d10	9026		14.045			

Report of Analysis

Client:		Date Collected:	7/30/2024 12:00:00 AM
Project:		Date Received:	7/30/2024 12:00:00 AM
Client Sample ID:	E1GF8	SDG No.:	BM080824
Lab Sample ID:	P3401-12	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000 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
BM047082.D	1	8/1/2024 12:00:00 AM	8/8/2024 12:00:00 AM	PB162452

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	19309	16.805				
1719-03-5	Chrysene-d12	14149	21.027				
1520-96-3	Perylene-d12	12075	23.125				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Report of Analysis

Client:		Date Collected:	8/1/2024 12:00:00 AM
Project:		Date Received:	8/1/2024 12:00:00 AM
Client Sample ID:	SLCS452	SDG No.:	BM080824
Lab Sample ID:	PB162452BS	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000 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
BM047083.D	1	8/1/2024 12:00:00 AM	8/8/2024 12:00:00 AM	PB162452

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.9		0.029	0	0.2	ug/L
91-20-3	Naphthalene	0.37		0.0043	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.41		0.015	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.36		0.0053	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.36		0.012	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.39		0.0074	0.05	0.1	ug/L
86-73-7	Fluorene	0.37		0.0067	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.69		0.063	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.36		0.0068	0.05	0.1	ug/L
120-12-7	Anthracene	0.36		0.008	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.38		0.0079	0.05	0.1	ug/L
129-00-0	Pyrene	0.38		0.006	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.36		0.0036	0.05	0.1	ug/L
218-01-9	Chrysene	0.37		0.0077	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.37		0.013	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.38		0.0098	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.42		0.017	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.37		0.017	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.37		0.014	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.37		0.022	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.792		15-120		99	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.433		30-130		108	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.391		30-130		98	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	5313	7.393				
1146-65-2	Naphthalene-d8	16404	10.146				
15067-26-2	Acenaphthene-d10	8851	14.045				

Report of Analysis

Client:		Date Collected:	8/1/2024 12:00:00 AM
Project:		Date Received:	8/1/2024 12:00:00 AM
Client Sample ID:	SLCS452	SDG No.:	BM080824
Lab Sample ID:	PB162452BS	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	1000 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
BM047083.D	1	8/1/2024 12:00:00 AM	8/8/2024 12:00:00 AM	PB162452

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	17556	16.805				
1719-03-5	Chrysene-d12	12899	21.024				
1520-96-3	Perylene-d12	12309	23.128				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.029	U			99	ug/L

Hit Summary Sheet SW-846

SDG No.: BM080824

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : E1GF7								
P3401-11	E1GF7	Water	Total Alkanes	*	0.000	0.029	0.2	ug/L
			Total Tics :			0.00		
P3401-11	E1GF7	Water	Benzo(b)fluoranthene		0.030	J 0.013	0.1	ug/L
P3401-11	E1GF7	Water	Benzo(k)fluoranthene		0.020	J 0.0098	0.1	ug/L
P3401-11	E1GF7	Water	Chrysene		0.020	J 0.0077	0.1	ug/L
P3401-11	E1GF7	Water	Naphthalene		0.080	J 0.0043	0.1	ug/L
			Total Svoc :			0.15		
			Total Concentration:			0.15		
Client ID : E1GF8								
P3401-12	E1GF8	Water	Total Alkanes	*	0.000	0.029	0.2	ug/L
			Total Tics :			0.00		
P3401-12	E1GF8	Water	Benzo(b)fluoranthene		0.030	J 0.013	0.1	ug/L
P3401-12	E1GF8	Water	Benzo(k)fluoranthene		0.020	J 0.0098	0.1	ug/L
P3401-12	E1GF8	Water	Chrysene		0.030	J 0.0077	0.1	ug/L
P3401-12	E1GF8	Water	Naphthalene		0.050	J 0.0043	0.1	ug/L
P3401-12	E1GF8	Water	Pentachlorophenol		0.070	J 0.063	0.2	ug/L
			Total Svoc :			0.20		
			Total Concentration:			0.20		



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BM080724 SAS No.: BM080724 SDG No.: BM080724
Instrument ID: _____ Calibration Date(s): 8/8/2024 1: _____
Calibration Time(s): 00:49 _____

LAB FILE ID:		RRFAL1 = BM047070.D			RRFAL2 = BM047071.D		RRFAL3 = BM047072.D	
		RRFAL4 = BM047073.D			RRFAL5 = BM047074.D		RRFAL6 = BM047075.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.471	0.464	0.465	0.429	0.425	0.451	4.9
1,4-Dioxane-d8		0.403	0.417	0.415	0.393	0.388	0.403	3.2
Naphthalene	1.080	1.042	1.018	1.066	1.019		1.045	2.7
1-Methylnaphthalene	0.732	0.701	0.702	0.729	0.701		0.713	2.2
2-Methylnaphthalene	0.692	0.672	0.674	0.698	0.674		0.682	1.8
Acenaphthylene	1.911	1.824	1.866	1.872	1.804		1.855	2.3
Acenaphthene	1.294	1.245	1.271	1.287	1.218		1.263	2.5
Fluorene	1.487	1.430	1.495	1.509	1.430		1.470	2.6
Pentachlorophenol		0.143	0.120	0.125	0.118	0.131	0.127	7.7
Phenanthrene	1.216	1.151	1.095	1.170	1.127		1.152	4.0
Anthracene	1.037	1.010	0.979	1.074	1.042		1.028	3.5
Fluoranthene	1.774	1.622	1.545	1.612	1.555		1.622	5.7
Pyrene	1.850	1.713	1.616	1.681	1.623		1.697	5.6
Benzo(a)anthracene	1.705	1.494	1.361	1.413	1.371		1.469	9.7
Chrysene	1.957	1.642	1.436	1.434	1.323		1.558	16.1
Benzo(b)fluoranthene	1.874	1.646	1.488	1.502	1.436		1.589	11.1
Benzo(k)fluoranthene	1.999	1.716	1.527	1.588	1.476		1.661	12.6
Benzo(a)pyrene	1.359	1.295	1.195	1.237	1.190		1.255	5.7
Indeno(1,2,3-cd)pyrene	2.265	1.933	1.755	1.845	1.740		1.908	11.2
Dibenzo(a,h)anthracene	1.770	1.506	1.366	1.430	1.345		1.484	11.6
Benzo(g,h,i)perylene	1.894	1.613	1.454	1.521	1.418		1.580	12.0
Fluoranthene-d10	1.168	1.149	1.122	1.185	1.156		1.156	2.0
2-Methylnaphthalene-d10	0.610	0.585	0.587	0.614	0.589		0.597	2.3

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM080824 SAS No.: BM080824 SDG NO.: BM080824

EPA Sample No.: SSTD0.4003 Date Analyzed: Aug 8 2024 12:00AM

Lab File ID: BM047072.D Time Analyzed: 09:46

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	6794	7.397	21516	10.15	12285	14.05
UPPER LIMIT	13588	7.897	43032	10.651	24570	14.55
LOWER LIMIT	3397	6.897	10758	9.651	6142.5	13.55
EPA SAMPLE NO.						
01 SBLK452	7178	7.39	22826	10.15	11898	14.05
02 E1GF7	5912	7.39	19859	10.15	11378	14.05
03 E1GF8	5182	7.39	16527	10.15	9026	14.05
04 SLCS452	5313	7.39	16404	10.15	8851	14.05

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM080824 SAS No.: BM080824 SDG NO.: BM080824

EPA Sample No.: SSTD0.4196 Date Analyzed: Aug 8 2024 12:00AM

Lab File ID: BM047079.D Time Analyzed: 09:46

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	5444	7.393	16860	10.15	9139	14.05
UPPER LIMIT	10888	7.893	33720	10.646	18278	14.545
LOWER LIMIT	2722	6.893	8430	9.646	4569.5	13.545
EPA SAMPLE NO.						
01 SBLK452	7178	7.39	22826	10.15	11898	14.05
02 E1GF7	5912	7.39	19859	10.15	11378	14.05
03 E1GF8	5182	7.39	16527	10.15	9026	14.05
04 SLCS452	5313	7.39	16404	10.15	8851	14.05

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM080824 SAS No.: BM080824 SDG NO.: BM080824

EPA Sample No.: SSTD0.4003 Date Analyzed: Aug 8 2024 12:00AM

Lab File ID: BM047072.D Time Analyzed: 09:46

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	25688	16.809	19720	21.024	18391	23.128
UPPER LIMIT	51376	17.309	39440	21.524	36782	23.628
LOWER LIMIT	12844	16.309	9860	20.524	9195.5	22.628
EPA SAMPLE NO.						
01 SBLK452	25535	16.81	18105	21.03	16093	23.13
02 E1GF7	25301	16.81	18053	21.03	15548	23.13
03 E1GF8	19309	16.81	14149	21.03	12075	23.13
04 SLCS452	17556	16.81	12899	21.02	12309	23.13

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BM080824 SAS No.: BM080824 SDG NO.: BM080824

EPA Sample No.: SSTD0.4196 Date Analyzed: Aug 8 2024 12:00AM

Lab File ID: BM047079.D Time Analyzed: 09:46

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	18419	16.805	13127	21.027	13024	23.131
UPPER LIMIT	36838	17.305	26254	21.527	26048	23.631
LOWER LIMIT	9209.5	16.305	6563.5	20.527	6512	22.631
EPA SAMPLE NO.						
01 SBLK452	25535	16.81	18105	21.03	16093	23.13
02 E1GF7	25301	16.81	18053	21.03	15548	23.13
03 E1GF8	19309	16.81	14149	21.03	12075	23.13
04 SLCS452	17556	16.81	12899	21.02	12309	23.13

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.

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: **BM080824**

Client: _____

Analytical Method: **SFAM_SVOASIM**

DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		RPD
								Qual	Low	High	
PB162452BS	1,4-Dioxane	2	1.9	ug/L	95				0	0	
	Naphthalene	0.4	0.37	ug/L	93				0	0	
	1-Methylnaphthalene	0.4	0.41	ug/L	103				0	0	
	2-Methylnaphthalene	0.4	0.36	ug/L	90				0	0	
	Acenaphthylene	0.4	0.36	ug/L	90				0	0	
	Acenaphthene	0.4	0.39	ug/L	98				0	0	
	Fluorene	0.4	0.37	ug/L	93				0	0	
	Pentachlorophenol	0.8	0.69	ug/L	86				0	0	
	Phenanthrene	0.4	0.36	ug/L	90				0	0	
	Anthracene	0.4	0.36	ug/L	90				0	0	
	Fluoranthene	0.4	0.38	ug/L	95				0	0	
	Pyrene	0.4	0.38	ug/L	95				0	0	
	Benzo(a)anthracene	0.4	0.36	ug/L	90				0	0	
	Chrysene	0.4	0.37	ug/L	93				0	0	
	Benzo(b)fluoranthene	0.4	0.37	ug/L	93				0	0	
	Benzo(k)fluoranthene	0.4	0.38	ug/L	95				0	0	
	Benzo(a)pyrene	0.4	0.42	ug/L	105				0	0	
	Indeno(1,2,3-cd)pyrene	0.4	0.37	ug/L	93				0	0	
	Dibenzo(a,h)anthracene	0.4	0.37	ug/L	93				0	0	
	Benzo(g,h,i)perylene	0.4	0.37	ug/L	93				0	0	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

SBLK452

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BM080824

SAS No.: BM080824 SDG NO.: BM080824

Lab File ID: BM047080.D

Lab Sample ID: PB162452BL

Instrument ID: BNA_M

Date Extracted: 08/01/2024

Matrix: (soil/water) Water

Date Analyzed: 08/08/2024

Level: (low/med) LOW

Time Analyzed: 09:46

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
E1GF7	P3401-11	BM047081.D	08/08/2024
E1GF8	P3401-12	BM047082.D	08/08/2024
PB162452BS	PB162452BS	BM047083.D	08/08/2024

COMMENTS: _____

Surrogate Summary

SW-846

SDG No.: **BM080824**

Client: _____

Analytical Method: **SFAM_SVOASIM**

Lab Sample ID	Client ID	Datafile	Parameter	Spike	Result	Recovery (%)	Qual	Limits (%)	
				(PPM)	(PPM)			Low	High
P3401-11	E1GF7	BM047081.D	1,4-Dioxane-d8	8	5.15	64		15	120
			Fluoranthene-d10	0.4	0.46	114		30	130
			2-Methylnaphthalene-d10	0.4	0.41	101		30	130
P3401-12	E1GF8	BM047082.D	1,4-Dioxane-d8	8	5.88	74		15	120
			Fluoranthene-d10	0.4	0.48	120		30	130
			2-Methylnaphthalene-d10	0.4	0.42	104		30	130
PB162452BL	PB162452BL	BM047080.D	1,4-Dioxane-d8	8	5.26	66		15	120
			Fluoranthene-d10	0.4	0.28	70		30	130
			2-Methylnaphthalene-d10	0.4	0.25	61		30	130
PB162452BS	PB162452BS	BM047083.D	1,4-Dioxane-d8	0.8	0.79	99		15	120
			Fluoranthene-d10	0.4	0.43	108		30	130
			2-Methylnaphthalene-d10	0.4	0.39	98		30	130

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BM080824

Lab Code: CHEM

SAS No.: BM080824

SDG NO.: BM080824

Lab File ID: BM047078.D

DFTPP Injection Date: 08/08/2024

Instrument ID: BNA_M

DFTPP Injection Time: 08:30

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	34.4
68	Less than 2.0% of mass 69	0.6 (1.4) 1
69	Mass 69 relative abundance	42.7
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	48.6
197	Less than 2.0% of mass 198	0.4
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	25.9
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	8.6
442	Greater than 50% of mass 198	55.2
443	15.0 - 24.0% of mass 442	10.6 (19.3) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTD0.4196	SSTDCCC0.4	BM047079.D	08/08/2024	09:10
SBLK452	PB162452BL	BM047080.D	08/08/2024	09:46
E1GF7	P3401-11	BM047081.D	08/08/2024	10:23
E1GF8	P3401-12	BM047082.D	08/08/2024	11:00
SLCS452	PB162452BS	BM047083.D	08/08/2024	11:37
SSTD0.4197	SSTDCCC0.4EC	BM047084.D	08/08/2024	12:43