

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BN011625 SAS No.: BN011625 SDG No.: BN011625

Instrument ID: BNA_N Calibration Date/Time: 1/16/2025 1:09:55

Lab File ID: BN035937.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4377 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane	0.439	0.368	0.010	-16.2434	40.0
1,4-Dioxane-d8	0.403	0.346	0.010	-14.1047	40.0
Naphthalene	1.065	1.128	0.600	5.922	30.0
1-Methylnaphthalene	0.682	0.727	0.300	6.6477	30.0
2-Methylnaphthalene	0.676	0.720	0.300	6.5053	30.0
Acenaphthylene	1.872	1.882	0.900	0.5127	30.0
Acenaphthene	1.307	1.408	0.500	7.7195	30.0
Fluorene	1.402	1.551	0.700	10.6307	30.0
Pentachlorophenol	0.096	0.129	0.010	34.6501	50.0
Phenanthrene	1.102	1.191	0.300	8.0167	30.0
Anthracene	1.065	1.103	0.400	3.5712	30.0
Fluoranthene	1.392	1.666	0.400	19.6151	30.0
Pyrene	1.451	1.741	0.500	19.9193	30.0
Benzo (a) anthracene	1.369	1.464	0.400	6.9581	30.0
Chrysene	1.358	1.459	0.400	7.3845	30.0
Benzo (b) fluoranthene	1.204	1.336	0.200	10.9026	30.0
Benzo (k) fluoranthene	1.236	1.454	0.200	17.6198	30.0
Benzo (a) pyrene	1.131	1.215	0.200	7.4285	30.0
Indeno (1,2,3-cd) pyrene	1.467	1.425	0.200	-2.8699	30.0
Dibenzo (a,h) anthracene	1.154	1.115	0.200	-3.3543	30.0
Benzo (g,h,i) perylene	1.162	1.088	0.200	-6.431	30.0
Fluoranthene-d10	1.059	1.171	0.400	10.5471	30.0
2-Methylnaphthalene-d10	0.520	0.524	0.300	0.826	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.: BN011625 SAS No.: BN011625 SDG No.: BN011625

Instrument ID: BNA_N Calibration Date/Time: 1/16/2025 1:13:49

Lab File ID: BN035943.D Init. Calib. Date(s): _____

EPA Sample No.: SSTD0.4378 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRFCAL	MIN RRF	%D	MAX%D
1,4-Dioxane-d8	0.403	0.418	0.010	3.6287	50.0
1,4-Dioxane	0.439	0.478	0.010	8.9253	50.0
Naphthalene	1.065	1.126	0.600	5.7655	50.0
1-Methylnaphthalene	0.682	0.718	0.300	5.2993	50.0
2-Methylnaphthalene	0.676	0.707	0.300	4.5268	50.0
Acenaphthylene	1.872	2.014	0.900	7.5666	50.0
Acenaphthene	1.307	1.403	0.500	7.3131	50.0
Fluorene	1.402	1.573	0.700	12.2262	50.0
Pentachlorophenol	0.096	0.148	0.010	54.2536	50.0
Phenanthrene	1.102	1.216	0.300	10.339	50.0
Anthracene	1.065	1.112	0.400	4.4141	50.0
Fluoranthene	1.392	1.704	0.400	22.3703	50.0
Pyrene	1.451	1.753	0.500	20.7839	50.0
Benzo (a) anthracene	1.369	1.436	0.400	4.9199	50.0
Chrysene	1.358	1.479	0.400	8.8972	50.0
Benzo (b) fluoranthene	1.204	1.391	0.200	15.467	50.0
Benzo (k) fluoranthene	1.236	1.439	0.200	16.4764	50.0
Benzo (a) pyrene	1.131	1.091	0.200	-3.5742	50.0
Indeno (1,2,3-cd) pyrene	1.467	1.393	0.200	-5.0347	50.0
Dibenzo (a,h) anthracene	1.154	1.093	0.200	-5.2645	50.0
Benzo (g,h,i) perylene	1.162	1.097	0.200	-5.6391	50.0
Fluoranthene-d10	1.059	1.242	0.400	17.2849	50.0
2-Methylnaphthalene-d10	0.520	0.540	0.300	3.799	50.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	1/15/2025 12:00:00 AM
Project:		Date Received:	1/15/2025 12:00:00 AM
Client Sample ID:	SBLK063	SDG No.:	BN011625
Lab Sample ID:	PB166063BL	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
BN035938.D	1	1/15/2025 12:00:00 AM	1/16/2025 12:00:00 AM	PB166063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	0.031	U	0.031	0	0.2	ug/L
91-20-3	Naphthalene	0.011	U	0.011	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.024	U	0.024	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.011	U	0.011	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.014	U	0.014	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.013	U	0.013	0.05	0.1	ug/L
86-73-7	Fluorene	0.022	U	0.022	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.041	U	0.041	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.014	U	0.014	0.05	0.1	ug/L
120-12-7	Anthracene	0.011	U	0.011	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.022	U	0.022	0.05	0.1	ug/L
129-00-0	Pyrene	0.016	U	0.016	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.015	U	0.015	0.05	0.1	ug/L
218-01-9	Chrysene	0.014	U	0.014	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.004	U	0.004	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.019	U	0.019	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.012	U	0.012	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.023	U	0.023	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.026	U	0.026	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.025	U	0.025	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.792		15-120		72	SPK: -8
93951-69-0	Fluoranthene-d10	0.371		30-130		93	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.301		30-130		75	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2513	7.829				
1146-65-2	Naphthalene-d8	5069	10.622				
15067-26-2	Acenaphthene-d10	2688	14.46				

Report of Analysis

Client:		Date Collected:	1/15/2025 12:00:00 AM
Project:		Date Received:	1/15/2025 12:00:00 AM
Client Sample ID:	SBLK063	SDG No.:	BN011625
Lab Sample ID:	PB166063BL	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
BN035938.D	1	1/15/2025 12:00:00 AM	1/16/2025 12:00:00 AM	PB166063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	5179	17.2				
1719-03-5	Chrysene-d12	3687	21.38				
1520-96-3	Perylene-d12	3402	23.683				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.031	U			99	ug/L

Report of Analysis

Client:		Date Collected:	1/14/2025 12:00:00 AM
Project:		Date Received:	1/14/2025 12:00:00 AM
Client Sample ID:	C0B99	SDG No.:	BN011625
Lab Sample ID:	Q1084-02	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
BN035939.D	1	1/15/2025 12:00:00 AM	1/16/2025 12:00:00 AM	PB166063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.6		0.031	0	0.2	ug/L
91-20-3	Naphthalene	0.011	U	0.011	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.024	U	0.024	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.011	U	0.011	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.014	U	0.014	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.013	U	0.013	0.05	0.1	ug/L
86-73-7	Fluorene	0.022	U	0.022	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.041	U	0.041	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.014	U	0.014	0.05	0.1	ug/L
120-12-7	Anthracene	0.011	U	0.011	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.022	U	0.022	0.05	0.1	ug/L
129-00-0	Pyrene	0.016	U	0.016	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.015	U	0.015	0.05	0.1	ug/L
218-01-9	Chrysene	0.014	U	0.014	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.004	U	0.004	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.019	U	0.019	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.012	U	0.012	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.023	U	0.023	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.026	U	0.026	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.025	U	0.025	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	6.074		15-120		76	SPK: -8
93951-69-0	Fluoranthene-d10	0.482		30-130		120	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.334		30-130		83	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2504		7.828			
1146-65-2	Naphthalene-d8	5142		10.622			
15067-26-2	Acenaphthene-d10	2910		14.46			

Report of Analysis

Client:		Date Collected:	1/14/2025 12:00:00 AM
Project:		Date Received:	1/14/2025 12:00:00 AM
Client Sample ID:	C0B99	SDG No.:	BN011625
Lab Sample ID:	Q1084-02	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
BN035939.D	1	1/15/2025 12:00:00 AM	1/16/2025 12:00:00 AM	PB166063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	5735	17.2				
1719-03-5	Chrysene-d12	4072	21.38				
1520-96-3	Perylene-d12	3583	23.68				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.031	U			99	ug/L

Report of Analysis

Client:		Date Collected:	1/14/2025 12:00:00 AM
Project:		Date Received:	1/14/2025 12:00:00 AM
Client Sample ID:	C0BA2	SDG No.:	BN011625
Lab Sample ID:	Q1084-03	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	990	Units:	mL
Soil Aliquot Vol:		Final Vol:	1000 uL
Extraction Type :		Test:	
	Decanted :	Level :	LOW
Injection Volume :		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035940.D	1	1/15/2025 12:00:00 AM	1/16/2025 12:00:00 AM	PB166063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.4		0.03	0	0.2	ug/L
91-20-3	Naphthalene	0.01	U	0.01	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.02	U	0.02	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.01	U	0.01	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.01	U	0.01	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.01	U	0.01	0.05	0.1	ug/L
86-73-7	Fluorene	0.02	U	0.02	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.04	U	0.04	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.01	U	0.01	0.05	0.1	ug/L
120-12-7	Anthracene	0.01	U	0.01	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.02	U	0.02	0.05	0.1	ug/L
129-00-0	Pyrene	0.02	U	0.02	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.02	U	0.02	0.05	0.1	ug/L
218-01-9	Chrysene	0.01	U	0.01	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0	U	0	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.02	U	0.02	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.01	U	0.01	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.02	U	0.02	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.03	U	0.03	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.03	U	0.03	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.493		15-120		69	SPK: -8
93951-69-0	Fluoranthene-d10	0.487		30-130		122	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.373		30-130		93	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2621		7.828			
1146-65-2	Naphthalene-d8	5411		10.622			
15067-26-2	Acenaphthene-d10	3079		14.464			

Report of Analysis

Client:		Date Collected:	1/14/2025 12:00:00 AM
Project:		Date Received:	1/14/2025 12:00:00 AM
Client Sample ID:	C0BA2	SDG No.:	BN011625
Lab Sample ID:	Q1084-03	Matrix:	Water
Analytical Method:	SFAM_SVOASIM	% Moisture:	100
Sample Wt/Vol:	990	Units:	mL
Soil Aliquot Vol:			uL
Extraction Type :		Decanted :	
Injection Volume :		Level :	LOW
		GPC Factor :	
		GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN035940.D	1	1/15/2025 12:00:00 AM	1/16/2025 12:00:00 AM	PB166063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	6272	17.204				
1719-03-5	Chrysene-d12	4774	21.377				
1520-96-3	Perylene-d12	4209	23.681				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.03	U			99	ug/L

Report of Analysis

Client:		Date Collected:	1/14/2025 12:00:00 AM
Project:		Date Received:	1/14/2025 12:00:00 AM
Client Sample ID:	C0BA4	SDG No.:	BN011625
Lab Sample ID:	Q1084-05	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
BN035941.D	1	1/15/2025 12:00:00 AM	1/16/2025 12:00:00 AM	PB166063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	1.2		0.031	0	0.2	ug/L
91-20-3	Naphthalene	0.011	U	0.011	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.024	U	0.024	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.011	U	0.011	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.014	U	0.014	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.013	U	0.013	0.05	0.1	ug/L
86-73-7	Fluorene	0.022	U	0.022	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	0.041	U	0.041	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.014	U	0.014	0.05	0.1	ug/L
120-12-7	Anthracene	0.011	U	0.011	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.022	U	0.022	0.05	0.1	ug/L
129-00-0	Pyrene	0.016	U	0.016	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.015	U	0.015	0.05	0.1	ug/L
218-01-9	Chrysene	0.014	U	0.014	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.004	U	0.004	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.019	U	0.019	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.012	U	0.012	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.023	U	0.023	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.026	U	0.026	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.025	U	0.025	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	5.129		15-120		64	SPK: -8
93951-69-0	Fluoranthene-d10	0.488		30-130		122	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.341		30-130		85	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2439	7.829				
1146-65-2	Naphthalene-d8	5071	10.622				
15067-26-2	Acenaphthene-d10	2891	14.459				

Report of Analysis

Client:		Date Collected:	1/14/2025 12:00:00 AM
Project:		Date Received:	1/14/2025 12:00:00 AM
Client Sample ID:	C0BA4	SDG No.:	BN011625
Lab Sample ID:	Q1084-05	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
BN035941.D	1	1/15/2025 12:00:00 AM	1/16/2025 12:00:00 AM	PB166063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	5913	17.204				
1719-03-5	Chrysene-d12	4524	21.381				
1520-96-3	Perylene-d12	3962	23.684				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.031	U			99	ug/L

Report of Analysis

Client:		Date Collected:	1/15/2025 12:00:00 AM
Project:		Date Received:	1/15/2025 12:00:00 AM
Client Sample ID:	SLCS063	SDG No.:	BN011625
Lab Sample ID:	PB166063BS	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
BN035942.D	1	1/15/2025 12:00:00 AM	1/16/2025 12:00:00 AM	PB166063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
123-91-1	1,4-Dioxane	2		0.031	0	0.2	ug/L
91-20-3	Naphthalene	0.41		0.011	0.05	0.1	ug/L
90-12-0	1-Methylnaphthalene	0.39		0.024	0.05	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.39		0.011	0.05	0.1	ug/L
208-96-8	Acenaphthylene	0.4		0.014	0.05	0.1	ug/L
83-32-9	Acenaphthene	0.42		0.013	0.05	0.1	ug/L
86-73-7	Fluorene	0.43		0.022	0.05	0.1	ug/L
87-86-5	Pentachlorophenol	1.2		0.041	0.1	0.2	ug/L
85-01-8	Phenanthrene	0.42		0.014	0.05	0.1	ug/L
120-12-7	Anthracene	0.4		0.011	0.05	0.1	ug/L
206-44-0	Fluoranthene	0.49		0.022	0.05	0.1	ug/L
129-00-0	Pyrene	0.48		0.016	0.05	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.42		0.015	0.05	0.1	ug/L
218-01-9	Chrysene	0.44		0.014	0.05	0.1	ug/L
205-99-2	Benzo(b)fluoranthene	0.47		0.004	0.05	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.47		0.019	0.05	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.42		0.012	0.05	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.38		0.023	0.05	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.37		0.026	0.05	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.37		0.025	0.05	0.1	ug/L
SURROGATES							
17647-74-4	1,4-Dioxane-d8	0.772		15-120		97	SPK: -0.8
93951-69-0	Fluoranthene-d10	0.497		30-130		124	SPK: -0.4
7297-45-2	2-Methylnaphthalene-d10	0.409		30-130		102	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	2292	7.824				
1146-65-2	Naphthalene-d8	4492	10.622				
15067-26-2	Acenaphthene-d10	2329	14.459				

Report of Analysis

Client:		Date Collected:	1/15/2025 12:00:00 AM
Project:		Date Received:	1/15/2025 12:00:00 AM
Client Sample ID:	SLCS063	SDG No.:	BN011625
Lab Sample ID:	PB166063BS	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
BN035942.D	1	1/15/2025 12:00:00 AM	1/16/2025 12:00:00 AM	PB166063

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
1517-22-2	Phenanthrene-d10	4861	17.204				
1719-03-5	Chrysene-d12	3757	21.381				
1520-96-3	Perylene-d12	3423	23.684				
TENTATIVE IDENTIFIED COMPOUNDS							
E966796	Total Alkanes	0.031	U			99	ug/L



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

Hit Summary Sheet SW-846

SDG No.: BN011625

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : C0B99								
Q1084-02	C0B99	Water	Total Alkanes	*	0.000	0.031	0.2	ug/L
			Total Tics :			0.00		
Q1084-02	C0B99	Water	1,4-Dioxane		1.600	0.031	0.2	ug/L
			Total Svoc :			1.60		
			Total Concentration:			1.60		
Client ID : C0BA2								
Q1084-03	C0BA2	Water	Total Alkanes	*	0.000	0.03	0.2	ug/L
			Total Tics :			0.00		
Q1084-03	C0BA2	Water	1,4-Dioxane		1.400	0.03	0.2	ug/L
			Total Svoc :			1.40		
			Total Concentration:			1.40		
Client ID : C0BA4								
Q1084-05	C0BA4	Water	Total Alkanes	*	0.000	0.031	0.2	ug/L
			Total Tics :			0.00		
Q1084-05	C0BA4	Water	1,4-Dioxane		1.200	0.031	0.2	ug/L
			Total Svoc :			1.20		
			Total Concentration:			1.20		



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BN123124 SAS No.: BN123124 SDG No.: BN123124
Instrument ID: _____ Calibration Date(s): 12/31/2024 _____
Calibration Time(s): 11:31 _____

LAB FILE ID:		RRFAL1 = BN035863.D			RRFAL2 = BN035864.D		RRFAL3 = BN035865.D	
		RRFAL4 = BN035866.D			RRFAL5 = BN035867.D		RRFAL6 = BN035868.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane		0.476	0.429	0.437	0.423	0.431	0.439	4.8
1,4-Dioxane-d8		0.446	0.396	0.395	0.389	0.390	0.403	6.0
Naphthalene	1.092	1.078	1.082	1.043	1.030		1.065	2.5
1-Methylnaphthalene	0.694	0.697	0.699	0.666	0.651		0.682	3.2
2-Methylnaphthalene	0.697	0.687	0.687	0.655	0.654		0.676	3.0
Acenaphthylene	1.879	1.866	1.884	1.861	1.872		1.872	0.5
Acenaphthene	1.297	1.318	1.321	1.304	1.296		1.307	0.9
Fluorene	1.417	1.388	1.420	1.390	1.393		1.402	1.1
Pentachlorophenol		0.084	0.084	0.093	0.105	0.114	0.096	13.8
Phenanthrene	1.106	1.099	1.118	1.099	1.089		1.102	1.0
Anthracene	1.079	1.050	1.082	1.053	1.061		1.065	1.4
Fluoranthene	1.358	1.381	1.413	1.384	1.426		1.392	2.0
Pyrene	1.428	1.446	1.467	1.446	1.471		1.451	1.2
Benzo(a)anthracene	1.399	1.387	1.374	1.339	1.344		1.369	1.9
Chrysene	1.384	1.366	1.358	1.344	1.341		1.358	1.3
Benzo(b)fluoranthene	1.222	1.221	1.177	1.205	1.196		1.204	1.5
Benzo(k)fluoranthene	1.252	1.230	1.225	1.246	1.226		1.236	1.0
Benzo(a)pyrene	1.155	1.139	1.104	1.133	1.125		1.131	1.7
Indeno(1,2,3-cd)pyrene	1.472	1.447	1.438	1.488	1.489		1.467	1.6
Dibenzo(a,h)anthracene	1.161	1.139	1.133	1.168	1.169		1.154	1.5
Benzo(g,h,i)perylene	1.170	1.152	1.131	1.180	1.179		1.162	1.8
Fluoranthene-d10	1.051	1.068	1.078	1.044	1.054		1.059	1.3
2-Methylnaphthalene-d10	0.543	0.531	0.532	0.504	0.490		0.520	4.2

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.: BN011625 SAS No.: BN011625 SDG NO.: BN011625

EPA Sample No.: SSTD0.4239 Date Analyzed: Jan 16 2025 12:00AM

Lab File ID: BN035865.D Time Analyzed: 10:30

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	1741	7.837	3882	10.63	2121	14.47
UPPER LIMIT	3482	8.337	7764	11.132	4242	14.973
LOWER LIMIT	870.5	7.337	1941	10.132	1060.5	13.973
EPA SAMPLE NO.						
01 SBLK063	2513	7.83	5069	10.62	2688	14.46
02 C0B99	2504	7.83	5142	10.62	2910	14.46
03 C0BA2	2621	7.83	5411	10.62	3079	14.46
04 C0BA4	2439	7.83	5071	10.62	2891	14.46
05 SLCS063	2292	7.82	4492	10.62	2329	14.46

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.: BN011625 SAS No.: BN011625 SDG NO.: BN011625

EPA Sample No.: SSTD0.4377 Date Analyzed: Jan 16 2025 12:00AM

Lab File ID: BN035937.D Time Analyzed: 10:30

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

	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
12 HOUR STD	3265	7.824	6849	10.62	3896	14.46
UPPER LIMIT	6530	8.324	13698	11.122	7792	14.96
LOWER LIMIT	1632.5	7.324	3424.5	10.122	1948	13.96
EPA SAMPLE NO.						
01 SBLK063	2513	7.83	5069	10.62	2688	14.46
02 C0B99	2504	7.83	5142	10.62	2910	14.46
03 C0BA2	2621	7.83	5411	10.62	3079	14.46
04 C0BA4	2439	7.83	5071	10.62	2891	14.46
05 SLCS063	2292	7.82	4492	10.62	2329	14.46

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.: BN011625 SAS No.: BN011625 SDG NO.: BN011625

EPA Sample No.: SSTD0.4239 Date Analyzed: Jan 16 2025 12:00AM

Lab File ID: BN035865.D Time Analyzed: 10:30

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	4204	17.212	3827	21.389	4517	23.695
UPPER LIMIT	8408	17.712	7654	21.889	9034	24.195
LOWER LIMIT	2102	16.712	1913.5	20.889	2258.5	23.195
EPA SAMPLE NO.						
01 SBLK063	5179	17.20	3687	21.38	3402	23.68
02 C0B99	5735	17.20	4072	21.38	3583	23.68
03 C0BA2	6272	17.20	4774	21.38	4209	23.68
04 C0BA4	5913	17.20	4524	21.38	3962	23.68
05 SLCS063	4861	17.20	3757	21.38	3423	23.68

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.: BN011625 SAS No.: BN011625 SDG NO.: BN011625

EPA Sample No.: SSTD0.4377 Date Analyzed: Jan 16 2025 12:00AM

Lab File ID: BN035937.D Time Analyzed: 10:30

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

	IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
12 HOUR STD	8218	17.2	6752	21.38	6651	23.68
UPPER LIMIT	16436	17.7	13504	21.88	13302	24.18
LOWER LIMIT	4109	16.7	3376	20.88	3325.5	23.18
EPA SAMPLE NO.						
01 SBLK063	5179	17.20	3687	21.38	3402	23.68
02 C0B99	5735	17.20	4072	21.38	3583	23.68
03 C0BA2	6272	17.20	4774	21.38	4209	23.68
04 C0BA4	5913	17.20	4524	21.38	3962	23.68
05 SLCS063	4861	17.20	3757	21.38	3423	23.68

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.: BN011625

Client: _____

Analytical Method: SFAM_SVOASIM

DataFile: _____

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD		Limits		RPD
								Qual	Low	High		
PB166063BS	1,4-Dioxane	2	2	ug/L	100				0	0		
	Naphthalene	0.4	0.41	ug/L	103				0	0		
	1-Methylnaphthalene	0.4	0.39	ug/L	98				0	0		
	2-Methylnaphthalene	0.4	0.39	ug/L	98				0	0		
	Acenaphthylene	0.4	0.4	ug/L	100				0	0		
	Acenaphthene	0.4	0.42	ug/L	105				0	0		
	Fluorene	0.4	0.43	ug/L	108				0	0		
	Pentachlorophenol	0.8	1.2	ug/L	150				0	0		
	Phenanthrene	0.4	0.42	ug/L	105				0	0		
	Anthracene	0.4	0.4	ug/L	100				0	0		
	Fluoranthene	0.4	0.49	ug/L	123				0	0		
	Pyrene	0.4	0.48	ug/L	120				0	0		
	Benzo(a)anthracene	0.4	0.42	ug/L	105				0	0		
	Chrysene	0.4	0.44	ug/L	110				0	0		
	Benzo(b)fluoranthene	0.4	0.47	ug/L	117				0	0		
	Benzo(k)fluoranthene	0.4	0.47	ug/L	117				0	0		
	Benzo(a)pyrene	0.4	0.42	ug/L	105				0	0		
	Indeno(1,2,3-cd)pyrene	0.4	0.38	ug/L	95				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.

SBLK063

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN011625

SAS No.: BN011625 SDG NO.: BN011625

Lab File ID: BN035938.D

Lab Sample ID: PB166063BL

Instrument ID: BNA_N

Date Extracted: 01/15/2025

Matrix: (soil/water) Water

Date Analyzed: 01/16/2025

Level: (low/med) LOW

Time Analyzed: 10:30

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
C0B99	Q1084-02	BN035939.D	01/16/2025
C0BA2	Q1084-03	BN035940.D	01/16/2025
C0BA4	Q1084-05	BN035941.D	01/16/2025
PB166063BS	PB166063BS	BN035942.D	01/16/2025

COMMENTS: _____

Surrogate Summary

SW-846

SDG No.: **BN011625**

Client: _____

Analytical Method: **SFAM_SVOASIM**

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
PB166063BL	PB166063BL	BN035938.D	1,4-Dioxane-d8	8	5.79	72		15	120
			Fluoranthene-d10	0.4	0.37	93		30	130
			2-Methylnaphthalene-d10	0.4	0.30	75		30	130
PB166063BS	PB166063BS	BN035942.D	1,4-Dioxane-d8	0.8	0.77	97		15	120
			Fluoranthene-d10	0.4	0.50	124		30	130
			2-Methylnaphthalene-d10	0.4	0.41	102		30	130
Q1084-02	C0B99	BN035939.D	1,4-Dioxane-d8	8	6.07	76		15	120
			Fluoranthene-d10	0.4	0.48	120		30	130
			2-Methylnaphthalene-d10	0.4	0.33	83		30	130
Q1084-03	C0BA2	BN035940.D	1,4-Dioxane-d8	8	5.49	69		15	120
			Fluoranthene-d10	0.4	0.49	122		30	130
			2-Methylnaphthalene-d10	0.4	0.37	93		30	130
Q1084-05	C0BA4	BN035941.D	1,4-Dioxane-d8	8	5.13	64		15	120
			Fluoranthene-d10	0.4	0.49	122		30	130
			2-Methylnaphthalene-d10	0.4	0.34	85		30	130

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BN011625

Lab Code: CHEM

SAS No.: BN011625 SDG NO.: BN011625

Lab File ID: BN035936.D

DFTPP Injection Date: 01/16/2025

Instrument ID: BNA_N

DFTPP Injection Time: 09:16

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	55.2
68	Less than 2.0% of mass 69	0.5 (1) 1
69	Mass 69 relative abundance	46.7
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	46.6
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	26.8
365	Greater than 1% of mass 198	5.3
441	Present, but less than mass 443	10.4
442	Greater than 50% of mass 198	62.4
443	15.0 - 24.0% of mass 442	12.9 (20.7) 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
SSTD0.4377	SSTDCCC0.4	BN035937.D	01/16/2025	09:55
SBLK063	PB166063BL	BN035938.D	01/16/2025	10:30
C0B99	Q1084-02	BN035939.D	01/16/2025	11:06
C0BA2	Q1084-03	BN035940.D	01/16/2025	11:42
C0BA4	Q1084-05	BN035941.D	01/16/2025	12:18
SLCS063	PB166063BS	BN035942.D	01/16/2025	12:54
SSTD0.4378	SSTDCCC0.4EC	BN035943.D	01/16/2025	13:49