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.: BN061124 SAS No.: BN061124 SDG No.: BN061124

Instrument ID: BNA_N Calibration Date/Time: 6/11/2024 1: 10:45

Lab File ID: BN031905.D Init. Calib. Date(s):

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s):

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.637	0.542		-14.914	20.0
Fluoranthene-d10	1.089	0.890		-18.274	20.0
n-Nitrosodimethylamine	0.465	0.408		-12.258	20.0
2-Fluorophenol	1.137	0.895		-21.284	20.0
Phenol-d6	1.491	1.188		-20.322	20.0
bis(2-Chloroethyl)ether	1.284	1.142		-11.059	20.0
Nitrobenzene-d5	0.332	0.272		-18.072	20.0
Naphthalene	1.077	0.946		-12.163	20.0
Hexachlorobutadiene	0.188	0.163		-13.298	20.0
2-Methylnaphthalene	0.736	0.635		-13.723	20.0
2-Fluorobiphenyl	1.517	1.350		-11.009	20.0
Acenaphthylene	1.844	1.489		-19.252	20.0
Acenaphthene	1.187	1.014		-14.575	20.0
Fluorene	1.586	1.363		-14.061	20.0
4,6-Dinitro-2-methylphenol	0.069	0.042		-39.13	20.0
2,4,6-Tribromophenol	0.192	0.128		-33.333	20.0
4-Bromophenyl-phenylether	0.227	0.187		-17.621	20.0
Hexachlorobenzene	0.235	0.202		-14.043	20.0
Atrazine	0.208	0.154		-25.962	20.0
Pentachlorophenol	0.117	0.073		-37.607	20.0
Phenanthrene	1.110	0.951		-14.324	20.0
Anthracene	1.030	0.818		-20.583	20.0
Fluoranthene	1.346	1.128		-16.196	20.0
Pyrene	1.589	1.314		-17.306	20.0
Terphenyl-d14	0.978	0.790		-19.223	20.0
Benzo(a)anthracene	1.507	1.194		-20.77	20.0
Chrysene	1.424	1.194		-16.152	20.0
Bis(2-ethylhexyl)phthalate	1.029	0.631		-38.678	20.0
Benzo(b)fluoranthene	1.458	1.307		-10.357	20.0
Benzo(k)fluoranthene	1.378	1.201		-12.845	20.0
Benzo(a)pyrene	1.258	1.100		-12.56	20.0
Indeno(1,2,3-cd)pyrene	1.492	1.280		-14.209	20.0
Dibenzo(a,h)anthracene	1.176	1.009		-14.201	20.0
Benzo(g,h,i)perylene	1.263	1.088		-13.856	20.0
1,4-Dioxane	0.490	0.418		-14.694	20.0

All other compounds must meet a minimum RRF of 0.010.

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN061124 SAS No.: BN061124 SDG No.: BN061124

Instrument ID: BNA_N Calibration Date/Time: 6/11/2024 12 13:49

Lab File ID: BN031909.D Init. Calib. Date(s):

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s):

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.637	0.549		-13.815	50.0
Fluoranthene-d10	1.089	0.867		-20.386	50.0
n-Nitrosodimethylamine	0.465	0.416		-10.538	50.0
2-Fluorophenol	1.137	0.934		-17.854	50.0
Phenol-d6	1.491	1.239		-16.901	50.0
bis(2-Chloroethyl)ether	1.284	1.136		-11.526	50.0
Nitrobenzene-d5	0.332	0.275		-17.169	50.0
Naphthalene	1.077	0.945		-12.256	50.0
Hexachlorobutadiene	0.188	0.163		-13.298	50.0
2-Methylnaphthalene	0.736	0.644		-12.5	50.0
2-Fluorobiphenyl	1.517	1.346		-11.272	50.0
Acenaphthylene	1.844	1.485		-19.469	50.0
Acenaphthene	1.187	1.022		-13.901	50.0
Fluorene	1.586	1.373		-13.43	50.0
4,6-Dinitro-2-methylphenol	0.069	0.044		-36.232	50.0
2,4,6-Tribromophenol	0.192	0.131		-31.771	50.0
4-Bromophenyl-phenylether	0.227	0.189		-16.74	50.0
Hexachlorobenzene	0.235	0.201		-14.468	50.0
Atrazine	0.208	0.150		-27.885	50.0
Pentachlorophenol	0.117	0.073		-37.607	50.0
Phenanthrene	1.110	0.943		-15.045	50.0
Anthracene	1.030	0.817		-20.68	50.0
Fluoranthene	1.346	1.101		-18.202	50.0
Pyrene	1.589	1.449		-8.811	50.0
Terphenyl-d14	0.978	0.858		-12.27	50.0
Benzo(a)anthracene	1.507	1.173		-22.163	50.0
Chrysene	1.424	1.193		-16.222	50.0
Bis(2-ethylhexyl)phthalate	1.029	0.587		-42.954	50.0
Benzo(b)fluoranthene	1.458	1.374		-5.761	50.0
Benzo(k)fluoranthene	1.378	1.241		-9.942	50.0
Benzo(a)pyrene	1.258	1.114		-11.447	50.0
Indeno(1,2,3-cd)pyrene	1.492	1.278		-14.343	50.0
Dibenzo(a,h)anthracene	1.176	1.007		-14.371	50.0
Benzo(g,h,i)perylene	1.263	1.090		-13.698	50.0
1,4-Dioxane	0.490	0.422		-13.878	50.0

All other compounds must meet a minimum RRF of 0.010.

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Report of Analysis

Client:				Date Collected:	6/7/2024 12:00:00 AM
Project:				Date Received:	6/7/2024 12:00:00 AM
Client Sample ID:	PB161392BL			SDG No.:	BN061124
Lab Sample ID:	PB161392BL			Matrix:	Water
Analytical Method:	8270-Modified			% 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
BN031906.D	1	6/7/2024 12:00:00 AM	6/11/2024 12:00:00 AM	PB161392

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	0.03	U	0.03	0.2	0.2	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.03	U	0.03	0.1	0.1	ug/L
91-20-3	Naphthalene	0.02	U	0.02	0.1	0.1	ug/L
87-68-3	Hexachlorobutadiene	0.03	U	0.03	0.1	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.03	U	0.03	0.1	0.1	ug/L
208-96-8	Acenaphthylene	0.02	U	0.02	0.1	0.1	ug/L
83-32-9	Acenaphthene	0.02	U	0.02	0.1	0.1	ug/L
Total PAH	Total PAH	0.45	U	0.45	0.1	1.6	ug/L
86-73-7	Fluorene	0.02	U	0.02	0.1	0.1	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	0.14	U	0.14	0.2	0.2	ug/L
101-55-3	4-Bromophenyl-phenylether	0.03	U	0.03	0.1	0.1	ug/L
118-74-1	Hexachlorobenzene	0.03	U	0.03	0.1	0.1	ug/L
1912-24-9	Atrazine	0.02	U	0.02	0.1	0.1	ug/L
87-86-5	Pentachlorophenol	0.09	U	0.09	0.2	0.2	ug/L
85-01-8	Phenanthrene	0.02	U	0.02	0.1	0.1	ug/L
120-12-7	Anthracene	0.02	U	0.02	0.1	0.1	ug/L
206-44-0	Fluoranthene	0.02	U	0.02	0.1	0.1	ug/L
129-00-0	Pyrene	0.02	U	0.02	0.1	0.1	ug/L
56-55-3	Benzo(a)anthracene	0.02	U	0.02	0.1	0.1	ug/L
218-01-9	Chrysene	0.03	U	0.03	0.1	0.1	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	0.14	U	0.14	0.2	0.2	ug/L
205-99-2	Benzo(b)fluoranthene	0.03	U	0.03	0.1	0.1	ug/L
207-08-9	Benzo(k)fluoranthene	0.03	U	0.03	0.1	0.1	ug/L
50-32-8	Benzo(a)pyrene	0.06	U	0.06	0.1	0.1	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.04	U	0.04	0.1	0.1	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.04	U	0.04	0.1	0.1	ug/L
191-24-2	Benzo(g,h,i)perylene	0.04	U	0.04	0.1	0.1	ug/L
123-91-1	1,4-Dioxane	0.07	U	0.07	0.2	0.2	ug/L

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Report of Analysis

Client:				Date Collected:	6/7/2024 12:00:00 AM
Project:				Date Received:	6/7/2024 12:00:00 AM
Client Sample ID:	PB161392BL			SDG No.:	BN061124
Lab Sample ID:	PB161392BL			Matrix:	Water
Analytical Method:	8270-Modified			% 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
BN031906.D	1	6/7/2024 12:00:00 AM	6/11/2024 12:00:00 AM	PB161392

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.311		30-150		78	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.319		30-150		80	SPK: -0.4
367-12-4	2-Fluorophenol	0.313		10-92		78	SPK: -0.4
13127-88-3	Phenol-d6	0.284		10-100		71	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.316		11-175		79	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.337		10-175		84	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.185		24-148		46	SPK: -0.4
1718-51-0	Terphenyl-d14	0.348		54-171		87	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	9876	7.668				
1146-65-2	Naphthalene-d8	29865	10.453				
15067-26-2	Acenaphthene-d10	17215	14.306				
1517-22-2	Phenanthrene-d10	40652	17.053				
1719-03-5	Chrysene-d12	33470	21.256				
1520-96-3	Perylene-d12	33761	23.487				

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Report of Analysis

Client:		Date Collected:	6/5/2024 12:00:00 AM
Project:		Date Received:	6/5/2024 12:00:00 AM
Client Sample ID:	BP-VPB-189-GW-98-100RE	SDG No.:	BN061124
Lab Sample ID:	P2772-03RE	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	940 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
BN031907.D	1	6/7/2024 12:00:00 AM	6/11/2024 12:00:00 AM	PB161392

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	0.03	U	0.03	0.21	0.21	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.03	U	0.03	0.11	0.11	ug/L
91-20-3	Naphthalene	0.05	J	0.03	0.11	0.11	ug/L
87-68-3	Hexachlorobutadiene	0.03	U	0.03	0.11	0.11	ug/L
91-57-6	2-Methylnaphthalene	0.03	U	0.03	0.11	0.11	ug/L
208-96-8	Acenaphthylene	0.02	U	0.02	0.11	0.11	ug/L
83-32-9	Acenaphthene	0.02	U	0.02	0.11	0.11	ug/L
Total PAH	Total PAH	0.48	U	0.48	0.11	1.76	ug/L
86-73-7	Fluorene	0.02	U	0.02	0.11	0.11	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	0.15	U	0.15	0.21	0.21	ug/L
101-55-3	4-Bromophenyl-phenylether	0.03	U	0.03	0.11	0.11	ug/L
118-74-1	Hexachlorobenzene	0.03	U	0.03	0.11	0.11	ug/L
1912-24-9	Atrazine	0.02	U	0.02	0.11	0.11	ug/L
87-86-5	Pentachlorophenol	0.1	U	0.1	0.21	0.21	ug/L
85-01-8	Phenanthrene	0.02	U	0.02	0.11	0.11	ug/L
120-12-7	Anthracene	0.03	U	0.03	0.11	0.11	ug/L
206-44-0	Fluoranthene	0.02	U	0.02	0.11	0.11	ug/L
129-00-0	Pyrene	0.02	U	0.02	0.11	0.11	ug/L
56-55-3	Benzo(a)anthracene	0.02	U	0.02	0.11	0.11	ug/L
218-01-9	Chrysene	0.03	U	0.03	0.11	0.11	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	0.16	J	0.15	0.21	0.21	ug/L
205-99-2	Benzo(b)fluoranthene	0.03	U	0.03	0.11	0.11	ug/L
207-08-9	Benzo(k)fluoranthene	0.04	U	0.04	0.11	0.11	ug/L
50-32-8	Benzo(a)pyrene	0.06	U	0.06	0.11	0.11	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.04	U	0.04	0.11	0.11	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.04	U	0.04	0.11	0.11	ug/L
191-24-2	Benzo(g,h,i)perylene	0.04	U	0.04	0.11	0.11	ug/L
123-91-1	1,4-Dioxane	4.4		0.07	0.21	0.21	ug/L

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Report of Analysis

Client:				Date Collected:	6/5/2024 12:00:00 AM
Project:				Date Received:	6/5/2024 12:00:00 AM
Client Sample ID:	BP-VPB-189-GW-98-100RE			SDG No.:	BN061124
Lab Sample ID:	P2772-03RE			Matrix:	Water
Analytical Method:	8270-Modified			% Moisture:	100
Sample Wt/Vol:	940	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
BN031907.D	1	6/7/2024 12:00:00 AM	6/11/2024 12:00:00 AM	PB161392

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.246		30-150		62	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.131		30-150		33	SPK: -0.4
367-12-4	2-Fluorophenol	0.231		10-92		58	SPK: -0.4
13127-88-3	Phenol-d6	0.072		10-100		18	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.337		11-175		84	SPK: -0.4
321-60-8	2-Fluorobiphenyl	1.413	*	10-175		353	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	1.091	*	24-148		273	SPK: -0.4
1718-51-0	Terphenyl-d14	3.29	*	54-171		822	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	11727	7.668				
1146-65-2	Naphthalene-d8	36745	10.442				
15067-26-2	Acenaphthene-d10	5660	14.306				
1517-22-2	Phenanthrene-d10	28285	17.053				
1719-03-5	Chrysene-d12	2494	21.256				
1520-96-3	Perylene-d12	9	23.507				

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Report of Analysis

Client:				Date Collected:	6/3/2024 12:00:00 AM
Project:				Date Received:	6/3/2024 12:00:00 AM
Client Sample ID:	BP-VPB-196-GW-100-102			SDG No.:	BN061124
Lab Sample ID:	P2771-03			Matrix:	Water
Analytical Method:	8270-Modified			% Moisture:	100
Sample Wt/Vol:	800	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
BN031908.D	1	6/7/2024 12:00:00 AM	6/11/2024 12:00:00 AM	PB161392

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	0.04	U	0.04	0.25	0.25	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.04	U	0.04	0.13	0.13	ug/L
91-20-3	Naphthalene	0.03	U	0.03	0.13	0.13	ug/L
87-68-3	Hexachlorobutadiene	0.03	U	0.03	0.13	0.13	ug/L
91-57-6	2-Methylnaphthalene	0.04	U	0.04	0.13	0.13	ug/L
208-96-8	Acenaphthylene	0.03	U	0.03	0.13	0.13	ug/L
83-32-9	Acenaphthene	0.03	U	0.03	0.13	0.13	ug/L
Total PAH	Total PAH	0.59	U	0.59	0.13	2.08	ug/L
86-73-7	Fluorene	0.02	U	0.02	0.13	0.13	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	0.18	U	0.18	0.25	0.25	ug/L
101-55-3	4-Bromophenyl-phenylether	0.03	U	0.03	0.13	0.13	ug/L
118-74-1	Hexachlorobenzene	0.04	U	0.04	0.13	0.13	ug/L
1912-24-9	Atrazine	0.03	U	0.03	0.13	0.13	ug/L
87-86-5	Pentachlorophenol	0.11	U	0.11	0.25	0.25	ug/L
85-01-8	Phenanthrene	0.03	U	0.03	0.13	0.13	ug/L
120-12-7	Anthracene	0.03	U	0.03	0.13	0.13	ug/L
206-44-0	Fluoranthene	0.03	U	0.03	0.13	0.13	ug/L
129-00-0	Pyrene	0.03	U	0.03	0.13	0.13	ug/L
56-55-3	Benzo(a)anthracene	0.03	U	0.03	0.13	0.13	ug/L
218-01-9	Chrysene	0.03	U	0.03	0.13	0.13	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	0.18	U	0.18	0.25	0.25	ug/L
205-99-2	Benzo(b)fluoranthene	0.04	U	0.04	0.13	0.13	ug/L
207-08-9	Benzo(k)fluoranthene	0.04	U	0.04	0.13	0.13	ug/L
50-32-8	Benzo(a)pyrene	0.07	U	0.07	0.13	0.13	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.05	U	0.05	0.13	0.13	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.05	U	0.05	0.13	0.13	ug/L
191-24-2	Benzo(g,h,i)perylene	0.05	U	0.05	0.13	0.13	ug/L
123-91-1	1,4-Dioxane	0.09	U	0.09	0.25	0.25	ug/L

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Report of Analysis

Client:				Date Collected:	6/3/2024 12:00:00 AM
Project:				Date Received:	6/3/2024 12:00:00 AM
Client Sample ID:	BP-VPB-196-GW-100-102			SDG No.:	BN061124
Lab Sample ID:	P2771-03			Matrix:	Water
Analytical Method:	8270-Modified			% Moisture:	100
Sample Wt/Vol:	800	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
BN031908.D	1	6/7/2024 12:00:00 AM	6/11/2024 12:00:00 AM	PB161392

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.284		30-150		71	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.275		30-150		69	SPK: -0.4
367-12-4	2-Fluorophenol	0.141		10-92		35	SPK: -0.4
13127-88-3	Phenol-d6	0.087		10-100		22	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.281		11-175		70	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.309		10-175		77	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.231		24-148		58	SPK: -0.4
1718-51-0	Terphenyl-d14	0.354		54-171		88	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	10784	7.668				
1146-65-2	Naphthalene-d8	33759	10.453				
15067-26-2	Acenaphthene-d10	21264	14.306				
1517-22-2	Phenanthrene-d10	49734	17.053				
1719-03-5	Chrysene-d12	37285	21.256				
1520-96-3	Perylene-d12	29111	23.484				

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Hit Summary Sheet
SW-846

SDG No.: BN061124

Client:

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**BP-VPB-189-GW-98-100RE**						
P2772-03RE	BP-VPB-189-GW-98-10(Water	1,4-Dioxane	4.400		0.07	0.21	ug/L
P2772-03RE	BP-VPB-189-GW-98-10(Water	Bis(2-ethylhexyl)phthalate	0.160	J	0.15	0.21	ug/L
P2772-03RE	BP-VPB-189-GW-98-10(Water	Naphthalene	0.050	J	0.03	0.11	ug/L
		Total Svoc :			**4.61**		
		Total Concentration:			**4.61**		

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN061024 SAS No.: BN061024 SDG No.: BN061024

Instrument ID: Calibration Date(s): 6/10/2024

Calibration Time(s): 11:22

LAB FILE ID: RRF0.1 = BN031872.D RRF0.2 = BN031873.D RRF0.4 = BN031874.D
RRF0.8 = BN031875.D RRF1.6 = BN031876.D RRF3.2 = BN031877.D

COMPOUND	RRF0.1	RRF0.2	RRF0.4	RRF0.8	RRF1.6	RRF3.2	RRF	% RSD
2-Methylnaphthalene-d10	0.626	0.649	0.555	0.644	0.681	0.655	0.637	6.2
Fluoranthene-d10	1.071	1.077	0.932	1.123	1.177	1.116	1.089	7.1
n-Nitrosodimethylamine	0.464	0.486	0.400	0.466	0.499	0.480	0.465	6.9
2-Fluorophenol	1.150	1.201	0.999	1.122	1.212	1.162	1.137	6.2
Phenol-d6	1.459	1.537	1.289	1.469	1.605	1.559	1.491	6.9
bis(2-Chloroethyl)ether	1.278	1.352	1.115	1.284	1.370	1.315	1.284	6.5
Nitrobenzene-d5	0.330	0.338	0.287	0.327	0.353	0.349	0.332	6.7
Naphthalene	1.064	1.114	0.941	1.073	1.145	1.112	1.077	6.1
Hexachlorobutadiene	0.195	0.197	0.165	0.186	0.198	0.191	0.188	6.0
2-Methylnaphthalene	0.735	0.756	0.644	0.743	0.785	0.751	0.736	6.0
2-Fluorobiphenyl	1.528	1.560	1.307	1.492	1.621	1.579	1.517	6.7
Acenaphthylene	1.753	1.814	1.539	1.814	2.006	2.006	1.844	9.2
Acenaphthene	1.155	1.210	1.019	1.175	1.276	1.247	1.187	7.1
Fluorene	1.564	1.614	1.366	1.587	1.703	1.641	1.586	6.7
4,6-Dinitro-2-methylphenol		0.044	0.043	0.059	0.078	0.091	0.069	34.3
2,4,6-Tribromophenol	0.190	0.182	0.155	0.186	0.204	0.211	0.192	10.8
4-Bromophenyl-phenylether	0.227	0.234	0.192	0.224	0.241	0.238	0.227	7.2
Hexachlorobenzene	0.231	0.240	0.202	0.234	0.254	0.244	0.235	7.0
Atrazine	0.214	0.205	0.175	0.211	0.222	0.217	0.208	7.4
Pentachlorophenol		0.094	0.082	0.108	0.130	0.140	0.117	22.1
Phenanthrene	1.112	1.127	0.944	1.096	1.200	1.150	1.110	7.2
Anthracene	0.989	1.019	0.855	1.033	1.118	1.100	1.030	8.8
Fluoranthene	1.379	1.391	1.147	1.379	1.446	1.348	1.346	7.0
Pyrene	1.607	1.748	1.328	1.522	1.651	1.695	1.589	8.7
Terphenyl-d14	1.042	1.067	0.811	0.951	1.006	1.018	0.978	8.7
Benzo(a)anthracene	1.555	1.575	1.245	1.482	1.587	1.565	1.507	8.0
Chrysene	1.461	1.489	1.200	1.421	1.512	1.447	1.424	7.3
Bis(2-ethylhexyl)phthalate		1.117	0.861	1.042	1.091	0.975	1.029	9.3
Benzo(b)fluoranthene	1.496	1.537	1.232	1.430	1.539	1.538	1.458	7.6
Benzo(k)fluoranthene	1.430	1.477	1.154	1.362	1.445	1.436	1.378	7.9
Benzo(a)pyrene	1.301	1.326	1.043	1.243	1.335	1.299	1.258	8.0
Indeno(1,2,3-cd)pyrene	1.535	1.568	1.196	1.532	1.612	1.460	1.492	9.3
Dibenzo(a,h)anthracene	1.205	1.242	0.940	1.205	1.267	1.156	1.176	9.3
Benzo(g,h,i)perylene	1.298	1.323	1.007	1.299	1.363	1.231	1.263	9.5
1,4-Dioxane	0.579	0.544	0.426	0.467	0.494	0.469	0.490	11.1

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.: BN061124 SAS No.: BN061124 SDG NO.: BN061124

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Jun 11 2024 12:00AM

Lab File ID: BN031874.D Time Analyzed: 11:21

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	10703	7.675	35162	10.45	22532		14.32
	UPPER LIMIT	21406	8.175	70324	10.953	45064		14.817
	LOWER LIMIT	5351.5	7.175	17581	9.953	11266		13.817
	EPA SAMPLE NO.							
01	PB161392BL	9876	7.67	29865	10.45	17215		14.31
02	BP-VPB-189-GW-98-100RE	11727	7.67	36745	10.44	5660	*	14.31
03	BP-VPB-196-GW-100-102	10784	7.67	33759	10.45	21264		14.31

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.: BN061124 SAS No.: BN061124 SDG NO.: BN061124

EPA Sample No.: SSTDCCC0.4 Date Analyzed: Jun 11 2024 12:00AM

Lab File ID: BN031905.D Time Analyzed: 11:21

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	12979	7.668	42840	10.44	26079	14.31
	UPPER LIMIT	25958	8.168	85680	10.943	52158	14.806
	LOWER LIMIT	6489.5	7.168	21420	9.943	13039.5	13.806
	EPA SAMPLE NO.						
01	PB161392BL	9876	7.67	29865	10.45	17215	14.31
02	BP-VPB-189-GW-98-100RE	11727	7.67	36745	10.44	5660 *	14.31
03	BP-VPB-196-GW-100-102	10784	7.67	33759	10.45	21264	14.31

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.: BN061124 SAS No.: BN061124 SDG NO.: BN061124

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Jun 11 2024 12:00AM

Lab File ID: BN031874.D Time Analyzed: 11:21

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	52345	17.066	47014	21.265	48380	23.502
	UPPER LIMIT	104690	17.566	94028	21.765	96760	24.002
	LOWER LIMIT	26172.5	16.566	23507	20.765	24190	23.002
	EPA SAMPLE NO.						
01	PB161392BL	40652	17.05	33470	21.26	33761	23.49
02	BP-VPB-189-GW-98-100RE	28285	17.05	2494 *	21.26	9 *	23.51
03	BP-VPB-196-GW-100-102	49734	17.05	37285	21.26	29111	23.48

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.: BN061124 SAS No.: BN061124 SDG NO.: BN061124

EPA Sample No.: SSTDCCC0.4 Date Analyzed: Jun 11 2024 12:00AM

Lab File ID: BN031905.D Time Analyzed: 11:21

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	60795	17.054	53166	21.256	54177	23.484
	UPPER LIMIT	121590	17.554	106332	21.756	108354	23.984
	LOWER LIMIT	30397.5	16.554	26583	20.756	27088.5	22.984
	EPA SAMPLE NO.						
01	PB161392BL	40652	17.05	33470	21.26	33761	23.49
02	BP-VPB-189-GW-98-100RE	28285 *	17.05	2494 *	21.26	9 *	23.51
03	BP-VPB-196-GW-100-102	49734	17.05	37285	21.26	29111	23.48

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB161392BL

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN061124 SAS No.: BN061124 SDG NO.: BN061124

Lab File ID: BN031906.D Lab Sample ID: PB161392BL

Instrument ID: BNA_N Date Extracted: 06/07/2024

Matrix: (soil/water) Water Date Analyzed: 06/11/2024

Level: (low/med) LOW Time Analyzed: 11:21

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
BP-VPB-196-GW-100-102	P2771-03	BN031908.D	06/11/2024

COMMENTS:

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Surrogate Summary

SW-846

SDG No.: BN061124

Client:

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P2771-03	BP-VPB-196-GW-1	BN031908.D	2-Methylnaphthalene-d10	0.4	0.28	71		30	150
			Fluoranthene-d10	0.4	0.28	69		30	150
			2-Fluorophenol	0.4	0.14	35		10	92
			Phenol-d6	0.4	0.09	22		10	100
			Nitrobenzene-d5	0.4	0.28	70		11	175
			2-Fluorobiphenyl	0.4	0.31	77		10	175
			2,4,6-Tribromophenol	0.4	0.23	58		24	148
			Terphenyl-d14	0.4	0.35	88		54	171
P2772-03RE	BP-VPB-189-GW-9	BN031907.D	2-Methylnaphthalene-d10	0.4	0.25	62		30	150
			Fluoranthene-d10	0.4	0.13	33		30	150
			2-Fluorophenol	0.4	0.23	58		10	92
			Phenol-d6	0.4	0.07	18		10	100
			Nitrobenzene-d5	0.4	0.34	84		11	175
			2-Fluorobiphenyl	0.4	1.41	353	*	10	175
			2,4,6-Tribromophenol	0.4	1.09	273	*	24	148
			Terphenyl-d14	0.4	3.29	822	*	54	171
PB161392BL	PB161392BL	BN031906.D	2-Methylnaphthalene-d10	0.4	0.31	78		30	150
			Fluoranthene-d10	0.4	0.32	80		30	150
			2-Fluorophenol	0.4	0.31	78		10	92
			Phenol-d6	0.4	0.28	71		10	100
			Nitrobenzene-d5	0.4	0.32	79		11	175
			2-Fluorobiphenyl	0.4	0.34	84		10	175
			2,4,6-Tribromophenol	0.4	0.19	46		24	148
			Terphenyl-d14	0.4	0.35	87		54	171

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BN061124

Lab Code: CHEM SAS No.: BN061124 SDG NO.: BN061124

Lab File ID: BN031904.D DFTPP Injection Date: 06/11/2024

Instrument ID: BNA_N DFTPP Injection Time: 10:06

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	29.6
68	Less than 2.0% of mass 69	0.5 (1.6) 1
69	Mass 69 relative abundance	34.5
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	45.7
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 60.0% of mass 198	25.5
365	Greater than 1% of mass 198	2.9
441	Present, but less than mass 443	9.9
442	Greater than 50% of mass 198	68.2
443	15.0 - 24.0% of mass 442	12.7 (18.7) 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
SSTDCCC0.4	SSTDCCC0.4	BN031905.D	06/11/2024	10:45
PB161392BL	PB161392BL	BN031906.D	06/11/2024	11:21
BP-VPB-189-GW-98-100RE	P2772-03RE	BN031907.D	06/11/2024	11:57
BP-VPB-196-GW-100-102	P2771-03	BN031908.D	06/11/2024	13:11
SSTDCCC0.4EC	SSTDCCC0.4	BN031909.D	06/11/2024	13:49