

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BN110524 SAS No.: BN110524 SDG No.: BN110524
Instrument ID: BNA_N Calibration Date/Time: 11/5/2024 1:09:23
Lab File ID: BN034863.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	0.579	0.493		-14.853	20.0
Fluoranthene-d10	0.938	0.814		-13.22	20.0
n-Nitrosodimethylamine	0.494	0.565		14.372	20.0
2-Fluorophenol	1.212	1.283		5.858	20.0
Phenol-d6	1.574	1.818		15.502	20.0
bis(2-Chloroethyl)ether	1.149	1.145		-0.348	20.0
Nitrobenzene-d5	0.314	0.275		-12.42	20.0
Naphthalene	1.106	0.996		-9.946	20.0
Hexachlorobutadiene	0.182	0.162		-10.989	20.0
2-Methylnaphthalene	0.723	0.606		-16.183	20.0
2-Fluorobiphenyl	1.575	1.404		-10.857	20.0
Acenaphthylene	2.007	1.601		-20.229	20.0
Acenaphthene	1.337	1.133		-15.258	20.0
Fluorene	1.667	1.404		-15.777	20.0
4,6-Dinitro-2-methylphenol	0.059	0.033		-44.068	20.0
2,4,6-Tribromophenol	0.198	0.147		-25.758	20.0
4-Bromophenyl-phenylether	0.231	0.190		-17.749	20.0
Hexachlorobenzene	0.259	0.241		-6.95	20.0
Atrazine	0.199	0.230		15.578	20.0
Pentachlorophenol	0.112	0.085		-24.107	20.0
Phenanthrene	1.177	1.116		-5.183	20.0
Anthracene	1.101	0.920		-16.44	20.0
Fluoranthene	1.297	1.145		-11.719	20.0
Pyrene	2.091	1.932		-7.604	20.0
Terphenyl-d14	0.859	0.683		-20.489	20.0
Benzo(a)anthracene	1.592	1.362		-14.447	20.0
Chrysene	1.559	1.475		-5.388	20.0
Bis(2-ethylhexyl)phthalate	1.331	0.943		-29.151	20.0
Benzo(b)fluoranthene	1.610	1.566		-2.733	20.0
Benzo(k)fluoranthene	1.571	1.666		6.047	20.0
Benzo(a)pyrene	1.329	1.174		-11.663	20.0
Indeno(1,2,3-cd)pyrene	1.471	1.418		-3.603	20.0
Dibenzo(a,h)anthracene	1.147	1.097		-4.359	20.0
Benzo(g,h,i)perylene	1.240	1.158		-6.613	20.0
1,4-Dioxane	0.439	0.397		-9.567	20.0

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.: BN110524 SAS No.: BN110524 SDG No.: BN110524

Instrument ID: BNA_N Calibration Date/Time: 11/5/2024 1:12:46

Lab File ID: BN034867.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	0.579	0.483		-16.58	50.0
Fluoranthene-d10	0.938	0.785		-16.311	50.0
n-Nitrosodimethylamine	0.494	0.619		25.304	50.0
2-Fluorophenol	1.212	0.999		-17.574	50.0
Phenol-d6	1.574	1.370		-12.961	50.0
bis(2-Chloroethyl) ether	1.149	1.170		1.828	50.0
Nitrobenzene-d5	0.314	0.275		-12.42	50.0
Naphthalene	1.106	1.003		-9.313	50.0
Hexachlorobutadiene	0.182	0.161		-11.538	50.0
2-Methylnaphthalene	0.723	0.606		-16.183	50.0
2-Fluorobiphenyl	1.575	1.390		-11.746	50.0
Acenaphthylene	2.007	1.573		-21.624	50.0
Acenaphthene	1.337	1.110		-16.978	50.0
Fluorene	1.667	1.401		-15.957	50.0
4,6-Dinitro-2-methylphenol	0.059	0.031		-47.458	50.0
2,4,6-Tribromophenol	0.198	0.099		-50.0	50.0
4-Bromophenyl-phenylether	0.231	0.182		-21.212	50.0
Hexachlorobenzene	0.259	0.230		-11.197	50.0
Atrazine	0.199	0.128		-35.678	50.0
Pentachlorophenol	0.112	0.063		-43.75	50.0
Phenanthrene	1.177	1.092		-7.222	50.0
Anthracene	1.101	0.908		-17.53	50.0
Fluoranthene	1.297	1.130		-12.876	50.0
Pyrene	2.091	1.921		-8.13	50.0
Terphenyl-d14	0.859	0.680		-20.838	50.0
Benzo(a)anthracene	1.592	1.365		-14.259	50.0
Chrysene	1.559	1.480		-5.067	50.0
Bis(2-ethylhexyl)phthalate	1.331	0.881		-33.809	50.0
Benzo(b)fluoranthene	1.610	1.594		-0.994	50.0
Benzo(k)fluoranthene	1.571	1.620		3.119	50.0
Benzo(a)pyrene	1.329	1.161		-12.641	50.0
Indeno(1,2,3-cd)pyrene	1.471	1.414		-3.875	50.0
Dibenzo(a,h)anthracene	1.147	1.080		-5.841	50.0
Benzo(g,h,i)perylene	1.240	1.165		-6.048	50.0
1,4-Dioxane	0.439	0.427		-2.733	50.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:		Date Collected:	11/1/2024 12:00:00 AM
Project:		Date Received:	11/1/2024 12:00:00 AM
Client Sample ID:	PB164594BL	SDG No.:	BN110524
Lab Sample ID:	PB164594BL	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
BN034864.D	1	11/1/2024 12:00:00 AM	11/5/2024 12:00:00 AM	PB164594

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

Report of Analysis

Client:		Date Collected:	11/1/2024 12:00:00 AM
Project:		Date Received:	11/1/2024 12:00:00 AM
Client Sample ID:	PB164594BL	SDG No.:	BN110524
Lab Sample ID:	PB164594BL	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
BN034864.D	1	11/1/2024 12:00:00 AM	11/5/2024 12:00:00 AM	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.352		20-139		88	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.36		30-150		90	SPK: -0.4
367-12-4	2-Fluorophenol	0.336		10-100		84	SPK: -0.4
13127-88-3	Phenol-d6	0.347		10-100		87	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.381		27-123		95	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.408		34-132		102	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.13		10-131		32	SPK: -0.4
1718-51-0	Terphenyl-d14	0.457		35-157		114	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7362	7.589				
1146-65-2	Naphthalene-d8	21619	10.351				
15067-26-2	Acenaphthene-d10	10048	14.218				
1517-22-2	Phenanthrene-d10	19701	16.964				
1719-03-5	Chrysene-d12	9905	21.167				
1520-96-3	Perylene-d12	7739	23.344				

Report of Analysis

Client:		Date Collected:	10/30/2024 12:00:00 AM
Project:		Date Received:	10/30/2024 12:00:00 AM
Client Sample ID:	RW5-SP100-90-20241030DL	SDG No.:	BN110524
Lab Sample ID:	P4652-04DL	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	980 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
BN034865.D	5	11/1/2024 12:00:00 AM	11/5/2024 12:00:00 AM	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	0.15	U	0.15	1	1	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.14	U	0.14	0.51	0.51	ug/L
91-20-3	Naphthalene	0.12	U	0.12	0.51	0.51	ug/L
87-68-3	Hexachlorobutadiene	0.13	U	0.13	0.51	0.51	ug/L
91-57-6	2-Methylnaphthalene	0.15	U	0.15	0.51	0.51	ug/L
208-96-8	Acenaphthylene	0.11	U	0.11	0.51	0.51	ug/L
83-32-9	Acenaphthene	0.1	U	0.1	0.51	0.51	ug/L
Total PAH	Total PAH	2.31	U	2.31	0.51	8.16	ug/L
86-73-7	Fluorene	0.09	U	0.09	0.51	0.51	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	0.71	U	0.71	1	1	ug/L
101-55-3	4-Bromophenyl-phenylether	0.13	U	0.13	0.51	0.51	ug/L
118-74-1	Hexachlorobenzene	0.15	U	0.15	0.51	0.51	ug/L
1912-24-9	Atrazine	0.12	U	0.12	0.51	0.51	ug/L
87-86-5	Pentachlorophenol	0.46	U	0.46	1	1	ug/L
85-01-8	Phenanthrene	0.1	U	0.1	0.51	0.51	ug/L
120-12-7	Anthracene	0.12	U	0.12	0.51	0.51	ug/L
206-44-0	Fluoranthene	0.12	U	0.12	0.51	0.51	ug/L
129-00-0	Pyrene	0.11	U	0.11	0.51	0.51	ug/L
56-55-3	Benzo(a)anthracene	0.11	U	0.11	0.51	0.51	ug/L
218-01-9	Chrysene	0.13	U	0.13	0.51	0.51	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	0.71	U	0.71	1	1	ug/L
205-99-2	Benzo(b)fluoranthene	0.16	U	0.16	0.51	0.51	ug/L
207-08-9	Benzo(k)fluoranthene	0.17	U	0.17	0.51	0.51	ug/L
50-32-8	Benzo(a)pyrene	0.29	U	0.29	0.51	0.51	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.19	U	0.19	0.51	0.51	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.2	U	0.2	0.51	0.51	ug/L
191-24-2	Benzo(g,h,i)perylene	0.19	U	0.19	0.51	0.51	ug/L
123-91-1	1,4-Dioxane	11.6	D	0.35	1	1	ug/L

Report of Analysis

Client:		Date Collected:	10/30/2024 12:00:00 AM
Project:		Date Received:	10/30/2024 12:00:00 AM
Client Sample ID:	RW5-SP100-90-20241030DL	SDG No.:	BN110524
Lab Sample ID:	P4652-04DL	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	980 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
BN034865.D	5	11/1/2024 12:00:00 AM	11/5/2024 12:00:00 AM	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.365		20-139		91	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.44		30-150		110	SPK: -0.4
367-12-4	2-Fluorophenol	0.225		10-100		56	SPK: -0.4
13127-88-3	Phenol-d6	0.155		10-100		39	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.435		27-123		109	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.42		34-132		105	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.235		10-131		59	SPK: -0.4
1718-51-0	Terphenyl-d14	0.53		35-157		132	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	6432	7.589				
1146-65-2	Naphthalene-d8	19375	10.351				
15067-26-2	Acenaphthene-d10	9318	14.222				
1517-22-2	Phenanthrene-d10	18184	16.97				
1719-03-5	Chrysene-d12	9599	21.16				
1520-96-3	Perylene-d12	7192	23.338				

Report of Analysis

Client:		Date Collected:	10/30/2024 12:00:00 AM
Project:		Date Received:	10/30/2024 12:00:00 AM
Client Sample ID:	VPB190-HYD-20241030RE	SDG No.:	BN110524
Lab Sample ID:	P4665-02RE	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	980 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
BN034866.D	1	11/1/2024 12:00:00 AM	11/5/2024 12:00:00 AM	PB164594

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

Report of Analysis

Client:		Date Collected:	10/30/2024 12:00:00 AM
Project:		Date Received:	10/30/2024 12:00:00 AM
Client Sample ID:	VPB190-HYD-20241030RE	SDG No.:	BN110524
Lab Sample ID:	P4665-02RE	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	980 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
BN034866.D	1	11/1/2024 12:00:00 AM	11/5/2024 12:00:00 AM	PB164594

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0	U	20-139		0	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.023	*	30-150		6	SPK: -0.4
367-12-4	2-Fluorophenol	0	U	10-100		0	SPK: -0.4
13127-88-3	Phenol-d6	0.001	*	10-100		0	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.397		27-123		99	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.411		34-132		103	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.145		10-131		36	SPK: -0.4
1718-51-0	Terphenyl-d14	0.421		35-157		105	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	7601	7.589				
1146-65-2	Naphthalene-d8	22735	10.351				
15067-26-2	Acenaphthene-d10	10621	14.222				
1517-22-2	Phenanthrene-d10	21100	16.97				
1719-03-5	Chrysene-d12	12441	21.16				
1520-96-3	Perylene-d12	8745	23.335				



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

Hit Summary Sheet
SW-846

SDG No.: BN110524

Client:

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID :	RW5-SP100-90-20241030DL						
P4652-04DL	RW5-SP100-90-20241030	Water	1,4-Dioxane	11.600	D 0.35	1	ug/L
Total Svoc :			11.60				
Total Concentration:			11.60				



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: _____
Lab Code: CHEM Case No.: BN103024 SAS No.: BN103024 SDG No.: BN103024
Instrument ID: _____ Calibration Date(s): 10/30/2024
Calibration Time(s): 09:20

LAB FILE ID:		RRF0.1 = BN034740.D		RRF0.2 = BN034741.D		RRF0.4 = BN034742.D		
		RRF0.8 = BN034743.D		RRF1.6 = BN034744.D		RRF3.2 = BN034745.D		
COMPOUND	RRF0.1	RRF0.2	RRF0.4	RRF0.8	RRF1.6	RRF3.2	RRF	% RSD
2-Methylnaphthalene-d10	0.577	0.560	0.519	0.628	0.617	0.569	0.579	6.3
Fluoranthene-d10	0.935	0.883	0.849	1.006	1.019	0.940	0.938	6.5
n-Nitrosodimethylamine	0.506	0.483	0.437	0.537	0.523	0.484	0.494	6.6
2-Fluorophenol	1.305	1.235	1.096	1.293	1.248	1.144	1.212	6.5
Phenol-d6	1.675	1.592	1.406	1.658	1.625	1.511	1.574	6.0
bis(2-Chloroethyl)ether	1.155	1.134	1.057	1.247	1.211	1.115	1.149	5.5
Nitrobenzene-d5	0.320	0.305	0.278	0.338	0.328	0.308	0.314	6.3
Naphthalene	1.150	1.096	0.996	1.191	1.153	1.069	1.106	5.9
Hexachlorobutadiene	0.191	0.182	0.165	0.197	0.190	0.173	0.182	6.2
2-Methylnaphthalene	0.719	0.708	0.649	0.785	0.769	0.709	0.723	6.2
2-Fluorobiphenyl	1.593	1.579	1.360	1.726	1.667	1.542	1.575	7.3
Acenaphthylene	2.027	1.956	1.678	2.156	2.136	2.018	2.007	8.0
Acenaphthene	1.338	1.292	1.133	1.458	1.440	1.332	1.337	8.1
Fluorene	1.692	1.628	1.434	1.816	1.793	1.650	1.667	7.6
4,6-Dinitro-2-methylphenol		0.043	0.045	0.060	0.065	0.069	0.059	22.2
2,4,6-Tribromophenol	0.199	0.178	0.158	0.204	0.213	0.206	0.198	11.3
4-Bromophenyl-phenylether	0.235	0.234	0.210	0.246	0.238	0.229	0.231	4.8
Hexachlorobenzene	0.265	0.262	0.238	0.278	0.267	0.254	0.259	5.1
Atrazine	0.196	0.190	0.178	0.214	0.214	0.203	0.199	6.4
Pentachlorophenol	0.102	0.088	0.091	0.114	0.122	0.127	0.112	16.8
Phenanthrene	1.166	1.168	1.076	1.267	1.233	1.168	1.177	5.2
Anthracene	1.080	1.074	0.990	1.163	1.177	1.108	1.101	5.7
Fluoranthene	1.282	1.221	1.174	1.404	1.416	1.296	1.297	6.8
Pyrene	2.207	2.148	1.926	2.280	2.091	2.001	2.091	6.1
Terphenyl-d14	0.911	0.869	0.788	0.931	0.867	0.825	0.859	5.9
Benzo (a) anthracene	1.620	1.534	1.406	1.721	1.679	1.581	1.592	6.5
Chrysene	1.596	1.522	1.406	1.688	1.644	1.519	1.559	6.0
Bis(2-ethylhexyl)phthalate	1.487	1.243	1.291	1.388	1.332	1.237	1.331	6.6
Benzo (b) fluoranthene	1.589	1.500	1.450	1.753	1.730	1.619	1.610	6.9
Benzo (k) fluoranthene	1.562	1.491	1.396	1.704	1.653	1.605	1.571	6.5
Benzo (a) pyrene	1.315	1.277	1.181	1.434	1.404	1.336	1.329	6.3
Indeno (1,2,3-cd) pyrene	1.517	1.552	1.332	1.572	1.482	1.423	1.471	5.8
Dibenzo (a,h) anthracene	1.189	1.210	1.035	1.230	1.152	1.110	1.147	6.0
Benzo (g,h,i) perylene	1.302	1.335	1.138	1.329	1.223	1.185	1.240	6.5
1,4-Dioxane	0.498	0.441	0.407	0.462	0.438	0.418	0.439	7.6

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.: BN110524 SAS No.: BN110524 SDG NO.: BN110524

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Nov 5 2024 12:00AM

Lab File ID: BN034742.D Time Analyzed: 10:37

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	8011	7.604	24120	10.37	13699	14.23
UPPER LIMIT	16022	8.104	48240	10.872	27398	14.733
LOWER LIMIT	4005.5	7.104	12060	9.872	6849.5	13.733
EPA SAMPLE NO.						
01 PB164594BL	7362	7.59	21619	10.35	10048	14.22
02 RW5-SP100-90-20241030DL	6432	7.59	19375	10.35	9318	14.22
03 VPB190-HYD-20241030RE	7601	7.59	22735	10.35	10621	14.22

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.: BN110524 SAS No.: BN110524 SDG NO.: BN110524

EPA Sample No.: SSTDCCC0.4 Date Analyzed: Nov 5 2024 12:00AM

Lab File ID: BN034863.D Time Analyzed: 10:37

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	8979	7.589	27748	10.35	13645	14.22
UPPER LIMIT	17958	8.089	55496	10.851	27290	14.722
LOWER LIMIT	4489.5	7.089	13874	9.851	6822.5	13.722
EPA SAMPLE NO.						
01 PB164594BL	7362	7.59	21619	10.35	10048	14.22
02 RW5-SP100-90-20241030DL	6432	7.59	19375	10.35	9318	14.22
03 VPB190-HYD-20241030RE	7601	7.59	22735	10.35	10621	14.22

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.: BN110524 SAS No.: BN110524 SDG NO.: BN110524

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Nov 5 2024 12:00AM

Lab File ID: BN034742.D Time Analyzed: 10:37

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	27882	16.982	17310	21.178	14673	23.361
UPPER LIMIT	55764	17.482	34620	21.678	29346	23.861
LOWER LIMIT	13941	16.482	8655	20.678	7336.5	22.861
EPA SAMPLE NO.						
01 PB164594BL	19701	16.96	9905	21.17	7739	23.34
02 RW5-SP100-90-20241030DL	18184	16.97	9599	21.16	7192 *	23.34
03 VPB190-HYD-20241030RE	21100	16.97	12441	21.16	8745	23.34

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.: BN110524 SAS No.: BN110524 SDG NO.: BN110524

EPA Sample No.: SSTDCCC0.4 Date Analyzed: Nov 5 2024 12:00AM

Lab File ID: BN034863.D Time Analyzed: 10:37

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	26678	16.97	16206	21.16	12712	23.335
UPPER LIMIT	53356	17.47	32412	21.66	25424	23.835
LOWER LIMIT	13339	16.47	8103	20.66	6356	22.835
EPA SAMPLE NO.						
01 PB164594BL	19701	16.96	9905	21.17	7739	23.34
02 RW5-SP100-90-20241030DL	18184	16.97	9599	21.16	7192	23.34
03 VPB190-HYD-20241030RE	21100	16.97	12441	21.16	8745	23.34

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.

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB164594BL

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN110524

SAS No.: BN110524 SDG NO.: BN110524

Lab File ID: BN034864.D

Lab Sample ID: PB164594BL

Instrument ID: BNA_N

Date Extracted: 11/01/2024

Matrix: (soil/water) Water

Date Analyzed: 11/05/2024

Level: (low/med) LOW

Time Analyzed: 10:37

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED

COMMENTS:

Surrogate Summary

SW-846

SDG No.: BN110524

Client: _____

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
P4652-04DL	RW5-SP100-90-202BN034865.D		2-Methylnaphthalene-d10	0.4	0.37	91		20	139
			Fluoranthene-d10	0.4	0.44	110		30	150
			2-Fluorophenol	0.4	0.23	56		10	100
			Phenol-d6	0.4	0.16	39		10	100
			Nitrobenzene-d5	0.4	0.44	109		27	123
			2-Fluorobiphenyl	0.4	0.42	105		34	132
			2,4,6-Tribromophenol	0.4	0.24	59		10	131
			Terphenyl-d14	0.4	0.53	132		35	157
P4665-02RE	VPB190-HYD-202BN034866.D		2-Methylnaphthalene-d10	0.4	0.00	0	*	20	139
			Fluoranthene-d10	0.4	0.02	6	*	30	150
			2-Fluorophenol	0.4	0.00	0	*	10	100
			Phenol-d6	0.4	0.00	0	*	10	100
			Nitrobenzene-d5	0.4	0.40	99		27	123
			2-Fluorobiphenyl	0.4	0.41	103		34	132
			2,4,6-Tribromophenol	0.4	0.15	36		10	131
			Terphenyl-d14	0.4	0.42	105		35	157
PB164594BL	PB164594BL	BN034864.D	2-Methylnaphthalene-d10	0.4	0.35	88		20	139
			Fluoranthene-d10	0.4	0.36	90		30	150
			2-Fluorophenol	0.4	0.34	84		10	100
			Phenol-d6	0.4	0.35	87		10	100
			Nitrobenzene-d5	0.4	0.38	95		27	123
			2-Fluorobiphenyl	0.4	0.41	102		34	132
			2,4,6-Tribromophenol	0.4	0.13	32		10	131
			Terphenyl-d14	0.4	0.46	114		35	157

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BN110524

Lab Code: CHEM

SAS No.: BN110524 SDG NO.: BN110524

Lab File ID: BN034862.D

DFTPP Injection Date: 11/05/2024

Instrument ID: BNA_N

DFTPP Injection Time: 08:44

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	58.2
68	Less than 2.0% of mass 69	0.9 (1.6) 1
69	Mass 69 relative abundance	53.6
70	Less than 2.0% of mass 69	0.3 (0.5) 1
127	10.0 - 80.0% of mass 198	61.8
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	20.4
365	Greater than 1% of mass 198	2.3
441	Present, but less than mass 443	7.2
442	Greater than 50% of mass 198	44
443	15.0 - 24.0% of mass 442	8.3 (18.9) 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	BN034863.D	11/05/2024	09:23
PB164594BL	PB164594BL	BN034864.D	11/05/2024	10:37
RW5-SP100-90-20241030DL	P4652-04DL	BN034865.D	11/05/2024	11:13
VPB190-HYD-20241030RE	P4665-02RE	BN034866.D	11/05/2024	11:49
SSTDCCC0.4EC	SSTDCCC0.4	BN034867.D	11/05/2024	12:46