

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: _____

Lab Code: CHEM Case No.: BN011824 SAS No.: BN011824 SDG No.: BN011824

Instrument ID: BNA_N Calibration Date/Time: 1/18/2024 1:17:59

Lab File ID: BN029294.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	0.682	0.567		-16.862	50.0
Fluoranthene-d10	1.213	0.998		-17.725	50.0
n-Nitrosodimethylamine	0.486	0.396		-18.519	50.0
2-Fluorophenol	0.991	0.818		-17.457	50.0
Phenol-d6	1.315	1.087		-17.338	50.0
bis(2-Chloroethyl)ether	1.234	1.048		-15.073	50.0
Nitrobenzene-d5	0.371	0.321		-13.477	50.0
Naphthalene	1.245	1.060		-14.859	50.0
Hexachlorobutadiene	0.270	0.242		-10.37	50.0
2-Methylnaphthalene	0.837	0.696		-16.846	50.0
2-Fluorobiphenyl	1.863	1.673		-10.199	50.0
Acenaphthylene	2.034	1.674		-17.699	50.0
Acenaphthene	1.380	1.175		-14.855	50.0
Fluorene	1.890	1.614		-14.603	50.0
4,6-Dinitro-2-methylphenol	0.059	0.042		-28.814	50.0
2,4,6-Tribromophenol	0.123	0.117		-4.878	50.0
4-Bromophenyl-phenylether	0.213	0.197		-7.512	50.0
Hexachlorobenzene	0.348	0.296		-14.943	50.0
Atrazine	0.197	0.158		-19.797	50.0
Pentachlorophenol	0.107	0.080		-25.234	50.0
Phenanthrene	1.335	1.124		-15.805	50.0
Anthracene	1.167	0.941		-19.366	50.0
Fluoranthene	1.638	1.350		-17.582	50.0
Pyrene	1.689	1.450		-14.15	50.0
Terphenyl-d14	1.003	0.909		-9.372	50.0
Benzo (a) anthracene	1.543	1.247		-19.183	50.0
Chrysene	1.648	1.416		-14.078	50.0
Bis(2-ethylhexyl)phthalate	0.696	0.545		-21.695	50.0
Benzo(b) fluoranthene	1.685	1.408		-16.439	50.0
Benzo(k) fluoranthene	1.637	1.347		-17.715	50.0
Benzo(a)pyrene	1.357	1.040		-23.36	50.0
Indeno(1,2,3-cd)pyrene	1.788	1.418		-20.694	50.0
Dibenzo(a,h)anthracene	1.444	1.146		-20.637	50.0
Benzo(g,h,i)perylene	1.524	1.265		-16.995	50.0
1,4-Dioxane	0.488	0.401		-17.828	50.0

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.: BN011824 SAS No.: BN011824 SDG No.: BN011824

Instrument ID: BNA_N Calibration Date/Time: 1/18/2024 1:13:39

Lab File ID: BN029287.D Init. Calib. Date(s): _____

EPA Sample No.: SSTDICCC0.4 Init. Calib. Time(s): _____

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.682	0.624		-8.504	20.0
Fluoranthene-d10	1.213	1.066		-12.119	20.0
n-Nitrosodimethylamine	0.486	0.397		-18.313	20.0
2-Fluorophenol	0.991	0.836		-15.641	20.0
Phenol-d6	1.315	1.102		-16.198	20.0
bis(2-Chloroethyl)ether	1.234	1.067		-13.533	20.0
Nitrobenzene-d5	0.371	0.325		-12.399	20.0
Naphthalene	1.245	1.061		-14.779	20.0
Hexachlorobutadiene	0.270	0.235		-12.963	20.0
2-Methylnaphthalene	0.837	0.708		-15.412	20.0
2-Fluorobiphenyl	1.863	1.664		-10.682	20.0
Acenaphthylene	2.034	1.684		-17.207	20.0
Acenaphthene	1.380	1.177		-14.71	20.0
Fluorene	1.890	1.591		-15.82	20.0
4,6-Dinitro-2-methylphenol	0.059	0.041		-30.508	20.0
2,4,6-Tribromophenol	0.123	0.102		-17.073	20.0
4-Bromophenyl-phenylether	0.213	0.179		-15.962	20.0
Hexachlorobenzene	0.348	0.295		-15.23	20.0
Atrazine	0.197	0.159		-19.289	20.0
Pentachlorophenol	0.107	0.086		-19.626	20.0
Phenanthrene	1.335	1.118		-16.255	20.0
Anthracene	1.167	0.945		-19.023	20.0
Fluoranthene	1.638	1.341		-18.132	20.0
Pyrene	1.689	1.481		-12.315	20.0
Terphenyl-d14	1.003	0.930		-7.278	20.0
Benzo(a)anthracene	1.543	1.289		-16.461	20.0
Chrysene	1.648	1.391		-15.595	20.0
Bis(2-ethylhexyl)phthalate	0.696	0.550		-20.977	20.0
Benzo(b)fluoranthene	1.685	1.252		-25.697	20.0
Benzo(k)fluoranthene	1.637	1.236		-24.496	20.0
Benzo(a)pyrene	1.357	0.950		-29.993	20.0
Indeno(1,2,3-cd)pyrene	1.788	1.320		-26.174	20.0
Dibenzo(a,h)anthracene	1.444	1.063		-26.385	20.0
Benzo(g,h,i)perylene	1.524	1.168		-23.36	20.0
1,4-Dioxane	0.488	0.540		10.656	20.0

All other compounds must meet a minimum RRF of 0.010.

Report of Analysis

Client:				Date Collected:			
Project:				Date Received:			
Client Sample ID:	ICVBN011824			SDG No.:	BN011824		
Lab Sample ID:	SSTDICV0.4			Matrix:	Water		
Analytical Method:	8270-Modified			% Moisture:	100		
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000000	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
BN029292.D	1		1/18/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
TARGETS							
62-75-9	n-Nitrosodimethylamine	340		29	200	200	ug/L
111-44-4	bis(2-Chloroethyl)ether	340		21	100	100	ug/L
91-20-3	Naphthalene	340		19	100	100	ug/L
87-68-3	Hexachlorobutadiene	350		19	100	100	ug/L
91-57-6	2-Methylnaphthalene	340		21	100	100	ug/L
208-96-8	Acenaphthylene	330		18	100	100	ug/L
83-32-9	Acenaphthene	340		16	100	100	ug/L
Total PAH	Total PAH	5310		400	100	1600	ug/L
86-73-7	Fluorene	340		17	100	100	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	380		73	200	200	ug/L
101-55-3	4-Bromophenyl-phenylether	370		20	100	100	ug/L
118-74-1	Hexachlorobenzene	350		24	100	100	ug/L
1912-24-9	Atrazine	320		18	100	100	ug/L
87-86-5	Pentachlorophenol	290		59	200	200	ug/L
85-01-8	Phenanthrene	340		19	100	100	ug/L
120-12-7	Anthracene	320		22	100	100	ug/L
206-44-0	Fluoranthene	330		19	100	100	ug/L
129-00-0	Pyrene	340		26	100	100	ug/L
56-55-3	Benzo(a)anthracene	330		24	100	100	ug/L
218-01-9	Chrysene	350		20	100	100	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	300		81	200	200	ug/L
205-99-2	Benzo(b)fluoranthene	340		24	100	100	ug/L
207-08-9	Benzo(k)fluoranthene	330		27	100	100	ug/L
50-32-8	Benzo(a)pyrene	310		36	100	100	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	320		40	100	100	ug/L
53-70-3	Dibenzo(a,h)anthracene	320		42	100	100	ug/L
191-24-2	Benzo(g,h,i)perylene	330		31	100	100	ug/L
123-91-1	1,4-Dioxane	340		61	200	200	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	335	*	30-150		83750	SPK: -0.4
93951-69-0	Fluoranthene-d10	325	*	30-150		81250	SPK: -0.4



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Report of Analysis

Client:		Date Collected:	
Project:		Date Received:	
Client Sample ID:	ICVBN011824	SDG No.:	BN011824
Lab Sample ID:	SSTDICV0.4	Matrix:	Water
Analytical Method:	8270-Modified	% Moisture:	100
Sample Wt/Vol:	1000	Units:	mL
Soil Aliquot Vol:		Final Vol:	1000000 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
BN029292.D	1		1/18/2024 12:00:00 AM	

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
367-12-4	2-Fluorophenol	338	*	10-92		84500	SPK: -0.4
13127-88-3	Phenol-d6	334	*	10-100		83500	SPK: -0.4
4165-60-0	Nitrobenzene-d5	350	*	11-175		87500	SPK: -0.4
321-60-8	2-Fluorobiphenyl	361	*	10-175		90250	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	361	*	24-148		90250	SPK: -0.4
1718-51-0	Terphenyl-d14	369	*	54-171		92250	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3509		7.941			
1146-65-2	Naphthalene-d8	9683		10.744			
15067-26-2	Acenaphthene-d10	5638		14.575			
1517-22-2	Phenanthrene-d10	13551		17.33			
1719-03-5	Chrysene-d12	12423		21.528			
1520-96-3	Perylene-d12	11765		23.934			

Report of Analysis

Client:		Date Collected:	1/15/2024 12:00:00 AM
Project:		Date Received:	1/15/2024 12:00:00 AM
Client Sample ID:	PB158451BL	SDG No.:	BN011824
Lab Sample ID:	PB158451BL	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
BN029293.D	1	1/15/2024 12:00:00 AM	1/18/2024 12:00:00 AM	PB158451

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	0.02	U	0.02	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	0.02	U	0.02	0.1	0.1	ug/L
91-57-6	2-Methylnaphthalene	0.02	U	0.02	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	0.41	U	0.41	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	0.07	U	0.07	0.2	0.2	ug/L
101-55-3	4-Bromophenyl-phenylether	0.02	U	0.02	0.1	0.1	ug/L
118-74-1	Hexachlorobenzene	0.02	U	0.02	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	0.06	U	0.06	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	0.03	U	0.03	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	0.02	U	0.02	0.1	0.1	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	0.08	U	0.08	0.2	0.2	ug/L
205-99-2	Benzo(b)fluoranthene	0.02	U	0.02	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	0.04	U	0.04	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	0.03	U	0.03	0.1	0.1	ug/L
123-91-1	1,4-Dioxane	0.06	U	0.06	0.2	0.2	ug/L
SURROGATES							
7297-45-2	2-Methylnaphthalene-d10	0.274		30-150		68	SPK: -0.4
93951-69-0	Fluoranthene-d10	0.273		30-150		68	SPK: -0.4

Report of Analysis

Client:		Date Collected:	1/15/2024 12:00:00 AM
Project:		Date Received:	1/15/2024 12:00:00 AM
Client Sample ID:	PB158451BL	SDG No.:	BN011824
Lab Sample ID:	PB158451BL	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
BN029293.D	1	1/15/2024 12:00:00 AM	1/18/2024 12:00:00 AM	PB158451

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units
367-12-4	2-Fluorophenol	0.353		10-92		88	SPK: -0.4
13127-88-3	Phenol-d6	0.339		10-100		85	SPK: -0.4
4165-60-0	Nitrobenzene-d5	0.286		11-175		72	SPK: -0.4
321-60-8	2-Fluorobiphenyl	0.31		10-175		77	SPK: -0.4
118-79-6	2,4,6-Tribromophenol	0.27		24-148		68	SPK: -0.4
1718-51-0	Terphenyl-d14	0.341		54-171		85	SPK: -0.4
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	3685	7.941				
1146-65-2	Naphthalene-d8	9817	10.744				
15067-26-2	Acenaphthene-d10	5154	14.575				
1517-22-2	Phenanthrene-d10	12396	17.33				
1719-03-5	Chrysene-d12	9780	21.528				
1520-96-3	Perylene-d12	9523	23.935				



Hit Summary Sheet
SW-846

SDG No.: BN011824

Client:

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID :	ICVBN011824							
SSTDICV0.4	ICVBN011824	Water	1,4-Dioxane	340.000	61		200	ug/L
SSTDICV0.4	ICVBN011824	Water	2-Methylnaphthalene	340.000	21		100	ug/L
SSTDICV0.4	ICVBN011824	Water	4,6-Dinitro-2-methylphenol	380.000	73		200	ug/L
SSTDICV0.4	ICVBN011824	Water	4-Bromophenyl-phenylether	370.000	20		100	ug/L
SSTDICV0.4	ICVBN011824	Water	Acenaphthene	340.000	16		100	ug/L
SSTDICV0.4	ICVBN011824	Water	Acenaphthylene	330.000	18		100	ug/L
SSTDICV0.4	ICVBN011824	Water	Anthracene	320.000	22		100	ug/L
SSTDICV0.4	ICVBN011824	Water	Atrazine	320.000	18		100	ug/L
SSTDICV0.4	ICVBN011824	Water	Benzo(a)anthracene	330.000	24		100	ug/L
SSTDICV0.4	ICVBN011824	Water	Benzo(a)pyrene	310.000	36		100	ug/L
SSTDICV0.4	ICVBN011824	Water	Benzo(b)fluoranthene	340.000	24		100	ug/L
SSTDICV0.4	ICVBN011824	Water	Benzo(g,h,i)perylene	330.000	31		100	ug/L
SSTDICV0.4	ICVBN011824	Water	Benzo(k)fluoranthene	330.000	27		100	ug/L
SSTDICV0.4	ICVBN011824	Water	bis(2-Chloroethyl)ether	340.000	21		100	ug/L
SSTDICV0.4	ICVBN011824	Water	Bis(2-ethylhexyl)phthalate	300.000	81		200	ug/L
SSTDICV0.4	ICVBN011824	Water	Chrysene	350.000	20		100	ug/L
SSTDICV0.4	ICVBN011824	Water	Dibenzo(a,h)anthracene	320.000	42		100	ug/L
SSTDICV0.4	ICVBN011824	Water	Fluoranthene	330.000	19		100	ug/L
SSTDICV0.4	ICVBN011824	Water	Fluorene	340.000	17		100	ug/L
SSTDICV0.4	ICVBN011824	Water	Hexachlorobenzene	350.000	24		100	ug/L
SSTDICV0.4	ICVBN011824	Water	Hexachlorobutadiene	350.000	19		100	ug/L
SSTDICV0.4	ICVBN011824	Water	Indeno(1,2,3-cd)pyrene	320.000	40		100	ug/L
SSTDICV0.4	ICVBN011824	Water	n-Nitrosodimethylamine	340.000	29		200	ug/L
SSTDICV0.4	ICVBN011824	Water	Naphthalene	340.000	19		100	ug/L
SSTDICV0.4	ICVBN011824	Water	Pentachlorophenol	290.000	59		200	ug/L
SSTDICV0.4	ICVBN011824	Water	Phenanthrene	340.000	19		100	ug/L
SSTDICV0.4	ICVBN011824	Water	Pyrene	340.000	26		100	ug/L
SSTDICV0.4	ICVBN011824	Water	Total PAH	5,310.000	400		1600	ug/L
Total Svoc :				14,340.00				
Total Concentration:				14,340.00				



6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH

Contract:

Lab Code: CHEM Case No.: BN011824

SAS No.: BN011824

SDG No.: BN011824

Instrument ID:

Calibration Date(s): 1/18/2024 :

Calibration Time(s): 12:23

LAB FILE ID:		RRF0.1 = BN029285.D			RRF0.2 = BN029286.D		RRF0.4 = BN029287.D	
		RRF0.8 = BN029288.D			RRF1.6 = BN029289.D		RRF3.2 = BN029290.D	
COMPOUND	RRF0.1	RRF0.2	RRF0.4	RRF0.8	RRF1.6	RRF3.2	RRF	% RSD
2-Methylnaphthalene-d10	0.670	0.649	0.624	0.703	0.735	0.717	0.682	5.7
Fluoranthene-d10	1.128	1.116	1.066	1.232	1.339	1.320	1.213	9.0
n-Nitrosodimethylamine	0.442	0.403	0.397	0.518	0.545	0.558	0.486	14.4
2-Fluorophenol	1.118	1.015	0.836	1.032	1.020	0.986	0.991	8.9
Phenol-d6	1.489	1.329	1.102	1.330	1.350	1.343	1.315	8.8
bis(2-Chloroethyl)ether	1.275	1.253	1.067	1.288	1.305	1.273	1.234	6.8
Nitrobenzene-d5	0.409	0.385	0.325	0.370	0.380	0.371	0.371	7.0
Naphthalene	1.303	1.262	1.061	1.302	1.329	1.273	1.245	7.5
Hexachlorobutadiene	0.273	0.270	0.235	0.288	0.292	0.277	0.270	7.4
2-Methylnaphthalene	0.866	0.829	0.708	0.860	0.899	0.873	0.837	7.5
2-Fluorobiphenyl	1.916	1.944	1.664	1.949	1.971	1.883	1.863	6.6
Acenaphthylene	1.943	1.961	1.684	2.076	2.223	2.228	2.034	9.4
Acenaphthene	1.380	1.403	1.177	1.431	1.488	1.435	1.380	7.3
Fluorene	1.897	1.869	1.591	1.961	2.067	1.985	1.890	8.0
4,6-Dinitro-2-methylphenol		0.044	0.041	0.059	0.065	0.070	0.059	22.6
2,4,6-Tribromophenol	0.109	0.106	0.102	0.119	0.131	0.143	0.123	14.9
4-Bromophenyl-phenylether	0.191	0.200	0.179	0.212	0.235	0.238	0.213	11.1
Hexachlorobenzene	0.355	0.346	0.295	0.353	0.378	0.367	0.348	7.6
Atrazine	0.175	0.175	0.159	0.201	0.220	0.222	0.197	13.7
Pentachlorophenol		0.082	0.086	0.103	0.117	0.126	0.107	19.2
Phenanthrene	1.421	1.316	1.118	1.350	1.422	1.398	1.335	7.9
Anthracene	1.122	1.118	0.945	1.172	1.279	1.286	1.167	10.3
Fluoranthene	1.615	1.504	1.341	1.665	1.829	1.796	1.638	10.4
Pyrene	1.715	1.773	1.481	1.720	1.773	1.747	1.689	6.3
Terphenyl-d14	0.996	1.041	0.930	1.024	1.053	1.030	1.003	4.7
Benzo (a) anthracene	1.500	1.488	1.289	1.559	1.672	1.696	1.543	8.9
Chrysene	1.792	1.657	1.391	1.714	1.742	1.686	1.648	8.2
Bis(2-ethylhexyl)phthalate	0.855	0.661	0.550	0.655	0.682	0.718	0.696	13.5
Benzo (b) fluoranthene	1.665	1.564	1.252	1.733	1.891	1.899	1.685	13.4
Benzo (k) fluoranthene	1.512	1.510	1.236	1.666	1.856	1.891	1.637	14.3
Benzo (a) pyrene	1.368	1.220	0.950	1.415	1.505	1.548	1.357	15.5
Indeno (1,2,3-cd) pyrene	1.722	1.587	1.320	1.822	2.014	2.075	1.788	15.0
Dibenzo (a,h) anthracene	1.335	1.261	1.063	1.477	1.655	1.704	1.444	16.3
Benzo (g,h,i) perylene	1.393	1.409	1.168	1.525	1.732	1.772	1.524	14.3
1,4-Dioxane	0.474	0.465	0.540	0.502	0.502	0.479	0.488	5.8

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN011824 SAS No.: BN011824 SDG NO.: BN011824

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Jan 18 2024 12:00AM

Lab File ID: BN029287.D Time Analyzed: 16:42

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	4865	7.941	13690	10.74	8081	14.58
UPPER LIMIT	9730	8.441	27380	11.244	16162	15.075
LOWER LIMIT	2432.5	7.441	6845	10.244	4040.5	14.075
EPA SAMPLE NO.						
01 ICVBN011824	3509	7.94	9683	10.74	5638	14.58
02 PB158451BL	3685	7.94	9817	10.74	5154	14.58

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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN011824 SAS No.: BN011824 SDG NO.: BN011824

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Jan 18 2024 12:00AM

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	IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
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UPPER LIMIT	9730	8.441	27380	11.244	16162	15.075
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SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN011824 SAS No.: BN011824 SDG NO.: BN011824

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Jan 18 2024 12:00AM

Lab File ID: BN029287.D Time Analyzed: 16:42

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	19200	17.33	17279	21.519	18888	23.932
UPPER LIMIT	38400	17.83	34558	22.019	37776	24.432
LOWER LIMIT	9600	16.83	8639.5	21.019	9444	23.432
EPA SAMPLE NO.						
01 ICVBN011824	13551	17.33	12423	21.53	11765	23.93
02 PB158451BL	12396	17.33	9780	21.53	9523	23.94

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.

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN011824 SAS No.: BN011824 SDG NO.: BN011824

EPA Sample No.: SSTDICCC0.4 Date Analyzed: Jan 18 2024 12:00AM

Lab File ID: BN029287.D Time Analyzed: 16:42

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	19200	17.33	17279	21.519	18888	23.932
UPPER LIMIT	38400	17.83	34558	22.019	37776	24.432
LOWER LIMIT	9600	16.83	8639.5	21.019	9444	23.432
EPA SAMPLE NO.						
01 ICVBN011824	13551	17.33	12423	21.53	11765	23.93
02 PB158451BL	12396	17.33	9780	21.53	9523	23.94

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.

ICVBN011824

Lab Name: CHEMTECH

Contract: _____

Lab Code: CHEM Case No.: BN011824SAS No.: BN011824 SDG NO.: BN011824Lab File ID: BN029292.DLab Sample ID: SSTDICV0.4Instrument ID: BNA_N

Date Extracted: _____

Matrix: (soil/water) WaterDate Analyzed: 01/18/2024Level: (low/med) LOWTime Analyzed: 16:42

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
ICVBN011824	SSTDICV0.4	BN029292.D	01/18/2024

COMMENTS: _____



4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB158451BL

Lab Name: CHEMTECH

Contract:

Lab Code: CHEM Case No.: BN011824

SAS No.: BN011824 SDG NO.: BN011824

Lab File ID: BN029293.D

Lab Sample ID: PB158451BL

Instrument ID: BNA_N

Date Extracted: 01/15/2024

Matrix: (soil/water) Water

Date Analyzed: 01/18/2024

Level: (low/med) LOW

Time Analyzed: 17:18

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.: BN011824

Client:

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
SSTDICV0.4	ICVBN011824	BN029292.D	2-Methylnaphthalene-d10	0.4	335.00	83750	*	30	150
			Fluoranthene-d10	0.4	325.00	81250	*	30	150
			2-Fluorophenol	0.4	338.00	84500	*	10	92
			Phenol-d6	0.4	334.00	83500	*	10	100
			Nitrobenzene-d5	0.4	350.00	87500	*	11	175
			2-Fluorobiphenyl	0.4	361.00	90250	*	10	175
			2,4,6-Tribromophenol	0.4	361.00	90250	*	24	148
			Terphenyl-d14	0.4	369.00	92250	*	54	171



Surrogate Summary
SW-846

SDG No.: BN011824

Client:

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
								Low	High
PB158451BL	PB158451BL	BN029293.D	2-Methylnaphthalene-d10	0.4	0.27	68		30	150
			Fluoranthene-d10	0.4	0.27	68		30	150
			2-Fluorophenol	0.4	0.35	88		10	92
			Phenol-d6	0.4	0.34	85		10	100
			Nitrobenzene-d5	0.4	0.29	72		11	175
			2-Fluorobiphenyl	0.4	0.31	77		10	175
			2,4,6-Tribromophenol	0.4	0.27	68		24	148
			Terphenyl-d14	0.4	0.34	85		54	171



5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH

Contract: BN011824

Lab Code: CHEM

SAS No.: BN011824 SDG NO.: BN011824

Lab File ID: BN029284.D

DFTPP Injection Date: 01/18/2024

Instrument ID: BNA_N

DFTPP Injection Time: 10:13

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.6
68	Less than 2.0% of mass 69	0.8 (1.8) 1
69	Mass 69 relative abundance	45.2
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	52.7
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	6.8
275	10.0 - 60.0% of mass 198	26.6
365	Greater than 1% of mass 198	3.8
441	Present, but less than mass 443	13.4
442	Greater than 50% of mass 198	83.3
443	15.0 - 24.0% of mass 442	16.6 (20) 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
SSTDICC0.1	SSTDICC0.1	BN029285.D	01/18/2024	12:23
SSTDICC0.2	SSTDICC0.2	BN029286.D	01/18/2024	13:03
SSTDICCC0.4	SSTDICCC0.4	BN029287.D	01/18/2024	13:39
SSTDICC0.8	SSTDICC0.8	BN029288.D	01/18/2024	14:15
SSTDICC1.6	SSTDICC1.6	BN029289.D	01/18/2024	14:51
SSTDICC3.2	SSTDICC3.2	BN029290.D	01/18/2024	15:27
SSTDICC5.0	SSTDICC5.0	BN029291.D	01/18/2024	16:03
ICVBN011824	SSTDICV0.4	BN029292.D	01/18/2024	16:42
PB158451BL	PB158451BL	BN029293.D	01/18/2024	17:18
SSTDCCC0.4EC	SSTDCCC0.4	BN029294.D	01/18/2024	17:59