CHEMTECH

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN030824 SAS No.: BN030824 SDG No.: BN030824

Instrument ID: BNA_N Calibration Date/Time: 3/8/2024 12: 14:39

Lab File ID: BN030355.D Init. Calib. Date(s):

EPA Sample No.: SICV245 Init. Calib. Time(s):

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

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
1,4-Dioxane	0.569	0.528	0.010	-7.12	40.0
Benzaldehyde	0.827	1.086	0.010	31.3101	40.0
Pyridine	1.439	1.198	0.010	-16.7816	40.0
Phenol	1.766	1.682	0.080	-4.7432	20.0
Bis(2-Chloroethyl)ether	1.411	1.257	0.100	-10.9378	20.0
2-Chlorophenol	1.463	1.448	0.200	-0.9679	20.0
2-Methylphenol	1.324	1.322	0.010	-0.1491	20.0
2,2-oxybis(1-Chloropropane)	1.283	1.046	0.010	-18.4468	40.0
Acetophenone	2.248	2.431	0.060	8.1438	20.0
4-Methylphenol	1.399	1.455	0.010	3.985	20.0
N-Nitroso-di-n-propylamine	1.076	1.167	0.050	8.5244	30.0
Hexachloroethane	0.679	0.653	0.100	-3.9348	20.0
Nitrobenzene	0.431	0.409	0.050	-4.9633	25.0
Isophorone	0.744	0.756	0.050	1.601	25.0
2-Nitrophenol	0.188	0.195	0.050	3.2346	25.0
2,4-Dimethylphenol	0.389	0.329	0.050	-15.5614	25.0
Bis(2-Chloroethoxy)methane	0.437	0.415	0.050	-5.0315	20.0
2,4-Dichlorophenol	0.313	0.332	0.060	5.8722	20.0
Naphthalene	1.142	1.126	0.200	-1.3662	20.0
4-Chloroaniline	0.450	0.475	0.010	5.4038	40.0
Hexachlorobutadiene	0.219	0.209	0.040	-4.3649	30.0
Caprolactam	0.093	0.109	0.010	16.6367	40.0
4-Chloro-3-methylphenol	0.355	0.399	0.040	12.5673	25.0
1-Methylnaphthalene	0.735	0.760	0.100	3.3821	20.0
2-Methylnaphthalene	0.744	0.779	0.100	4.7101	20.0
Hexachlorocyclopentadiene	0.473	0.325	0.010	-31.3331	40.0
2,4,6-Trichlorophenol	0.401	0.399	0.090	-0.32	25.0
2,4,5-Trichlorophenol	0.438	0.442	0.100	0.8529	25.0
1,1-Biphenyl	1.688	1.649	0.200	-2.3028	20.0
2-Chloronaphthalene	1.311	1.238	0.300	-5.5922	20.0
2-Nitroaniline	0.378	0.397	0.050	4.9998	40.0
Dimethylphthalate	1.639	1.665	0.300	1.618	20.0
2,6-Dinitrotoluene	0.316	0.353	0.080	11.3766	30.0
Acenaphthylene	2.125	2.063	0.400	-2.9534	20.0
3-Nitroaniline	0.310	0.370	0.010	19.2589	40.0
Acenaphthene	1.408	1.360	0.200	-3.4515	20.0
2,4-Dinitrophenol	0.178	0.187	0.010	5.118	40.0
4-Nitrophenol	0.324	0.353	0.010	9.0187	40.0
Dibenzofuran	1.878	1.895	0.300	0.8759	20.0
2,4-Dinitrotoluene	0.452	0.499	0.070	10.4056	30.0
Diethylphthalate	1.752	1.837	0.300	4.899	20.0

CHEMTECH

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SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN030824 SAS No.: BN030824 SDG No.: BN030824

Instrument ID: BNA_N Calibration Date/Time: 3/8/2024 12: 14:39

Lab File ID: BN030355.D Init. Calib. Date(s):

EPA Sample No.: SICV245 Init. Calib. Time(s):

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

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
Fluorene	1.551	1.567	0.200	1.0272	20.0
4-Chlorophenyl-phenylether	0.742	0.741	0.100	-0.135	20.0
4-Nitroaniline	0.287	0.380	0.010	32.2791	40.0
4,6-Dinitro-2-methylphenol	0.135	0.125	0.010	-7.0754	40.0
N-Nitrosodiphenylamine	0.631	0.630	0.050	-0.1566	20.0
1,2,4,5-Tetrachlorobenzene	0.632	0.600	0.100	-4.9317	20.0
4-Bromophenyl-phenylether	0.214	0.204	0.070	-5.008	20.0
Hexachlorobenzene	0.235	0.228	0.050	-2.9676	25.0
Atrazine	0.217	0.220	0.010	1.399	25.0
Pentachlorophenol	0.159	0.140	0.010	-11.5951	40.0
Phenanthrene	1.166	1.125	0.200	-3.5522	20.0
Pentachlorobenzene	0.278	0.268	0.050	-3.8939	20.0
Anthracene	1.187	1.147	0.200	-3.3663	20.0
1,2,3,4-Tetrachlorobenzene	0.299	0.262	0.050	-12.213	20.0
Carbazole	1.054	1.053	0.050	-0.0956	40.0
Di-n-butylphthalate	1.464	1.491	0.500	1.8303	25.0
Fluoranthene	1.556	1.512	0.400	-2.8469	25.0
Pyrene	1.600	1.611	0.400	0.7317	25.0
Butylbenzylphthalate	0.766	0.803	0.100	4.8119	40.0
3,3-Dichlorobenzidine	0.435	0.516	0.010	18.6427	40.0
Benzo(a)anthracene	1.501	1.489	0.300	-0.8182	30.0
Chrysene	1.392	1.355	0.200	-2.6887	30.0
Bis(2-ethylhexyl)phthalate	1.160	1.224	0.200	5.5395	40.0
Di-n-octyl phthalate	1.872	2.141	0.010	14.3614	40.0
Benzo(b)fluoranthene	1.319	1.417	0.200	7.484	25.0
Benzo(k)fluoranthene	1.362	1.363	0.200	0.0945	25.0
Benzo(a)pyrene	1.248	1.209	0.200	-3.1438	20.0
Indeno(1,2,3-cd)pyrene	1.484	1.362	0.200	-8.2399	25.0
Dibenzo(a,h)anthracene	1.210	1.141	0.200	-5.7081	30.0
Benzo(g,h,i)perylene	1.202	1.068	0.200	-11.1812	30.0
2,3,4,6-Tetrachlorophenol	0.352	0.386	0.040	9.6555	20.0
1,4-Dioxane-d8	0.593	0.529	0.010	-10.8147	25.0
Pyridine-d5	1.415	1.463	0.010	3.3834	40.0
Phenol-d5	1.774	1.868	0.010	5.2641	25.0
Bis-(2-Chloroethyl)ether-d8	1.008	1.117	0.050	10.8173	25.0
2-Chlorophenol-d4	1.421	1.571	0.200	10.4915	20.0
4-Methylphenol-d8	1.399	1.593	0.010	13.8771	20.0
Nitrobenzene-d5	0.167	0.186	0.050	11.4192	20.0
2-Nitrophenol-d4	0.175	0.200	0.050	14.3996	30.0
2,4-Dichlorophenol-d3	0.312	0.360	0.060	15.375	20.0
4-Chloroaniline-d4	0.463	0.531	0.010	14.7501	40.0

CHEMTECH

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN030824 SAS No.: BN030824 SDG No.: BN030824

Instrument ID: BNA_N Calibration Date/Time: 3/8/2024 12: 14:39

Lab File ID: BN030355.D Init. Calib. Date(s):

EPA Sample No.: SICV245 Init. Calib. Time(s):

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

COMPOUND	RRF	RRFICV	MIN RRF	%D	MAX%D
Dimethylphthalate-d6	1.613	1.835	0.300	13.8029	20.0
Acenaphthylene-d8	1.827	2.011	0.400	10.0649	20.0
4-Nitrophenol-d4	0.286	0.320	0.010	11.9137	40.0
Fluorene-d10	1.323	1.487	0.100	12.4084	20.0
4,6-Dinitro-2-methylphenol-d2	0.125	0.136	0.010	8.7933	40.0
Anthracene-d10	0.971	1.061	0.300	9.2769	20.0
Pyrene-d10	1.270	1.408	0.300	10.8474	25.0
Benzo(a)pyrene-d12	1.048	1.227	0.010	17.0845	20.0

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

Report of Analysis

Client:		Date Collected:	
Project:		Date Received:	
Client Sample ID:		SDG No.:	
Lab Sample ID:		Matrix:	
Analytical Method:			
Sample Wt/Vol:	Units:	Final Vol:	
Soil Aliquot Vol:	uL	Test:	
Extraction Type :	Decanted :	Level :	
Injection Volume :	GPC Factor :	GPC Cleanup :	PH :

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units

CHEMTECH

Hit Summary Sheet
SW-846

SDG No.: BN030824

Client:

Sample ID	Client ID	Parameter	Concentration	C	MDL	RDL	Units
Client ID :							

Total Concentration:

CHEMTECH

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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN030824 SAS No.: BN030824 SDG No.: BN030824

Instrument ID: Calibration Date(s): 3/8/2024 1:

Calibration Time(s): 10:28

LAB FILE ID: RRFAL1 = BN030349.D RRFAL2 = BN030350.D RRFAL3 = BN030351.D
RRFAL4 = BN030352.D RRFAL5 = BN030353.D RRFAL6 = BN030354.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane	0.579	0.551	0.550	0.569	0.595		0.569	3.4
Benzaldehyde		0.884	1.044	0.964	0.686	0.557	0.827	24.3
Pyridine		1.289	1.346	1.459	1.511	1.592	1.439	8.5
Hexachloroethane	0.592	0.641	0.682	0.750	0.732		0.679	9.6
Nitrobenzene	0.382	0.404	0.439	0.465	0.463		0.431	8.5
Isophorone	0.654	0.668	0.787	0.828	0.785		0.744	10.5
2-Nitrophenol	0.155	0.169	0.195	0.211	0.213		0.188	13.6
2,4-Dimethylphenol	0.340	0.358	0.397	0.431	0.419		0.389	10.0
Bis(2-Chloroethoxy)methane	0.394	0.400	0.444	0.476	0.469		0.437	8.7
2,4-Dichlorophenol	0.273	0.291	0.328	0.339	0.336		0.313	9.5
Naphthalene	1.050	1.090	1.152	1.208	1.207		1.142	6.2
4-Chloroaniline		0.394	0.471	0.486	0.455	0.446	0.450	7.7
Hexachlorobutadiene	0.202	0.210	0.213	0.230	0.237		0.219	6.8
Phenol		1.568	1.786	1.915	1.745	1.815	1.766	7.2
Caprolactam		0.071	0.102	0.103	0.094	0.096	0.093	14.0
4-Chloro-3-methylphenol	0.294	0.307	0.391	0.408	0.374		0.355	14.5
1-Methylnaphthalene	0.654	0.688	0.774	0.803	0.757		0.735	8.5
2-Methylnaphthalene	0.655	0.694	0.784	0.814	0.771		0.744	9.0
Hexachlorocyclopentadiene		0.408	0.381	0.483	0.544	0.550	0.473	16.3
2,4,6-Trichlorophenol	0.335	0.358	0.390	0.462	0.458		0.401	14.4
2,4,5-Trichlorophenol	0.385	0.405	0.420	0.494	0.486		0.438	11.2
1,1-Biphenyl	1.577	1.643	1.594	1.807	1.819		1.688	6.9
2-Chloronaphthalene	1.217	1.278	1.234	1.408	1.418		1.311	7.3
2-Nitroaniline	0.284	0.318	0.390	0.453	0.445		0.378	19.9
Bis(2-Chloroethyl)ether		1.249	1.390	1.528	1.433	1.456	1.411	7.3
Dimethylphthalate	1.518	1.512	1.656	1.792	1.716		1.639	7.5
2,6-Dinitrotoluene	0.250	0.279	0.321	0.369	0.362		0.316	16.3
Acenaphthylene	1.921	2.045	2.076	2.352	2.234		2.125	7.9
3-Nitroaniline		0.234	0.319	0.343	0.326	0.329	0.310	14.0
Acenaphthene	1.316	1.372	1.345	1.529	1.478		1.408	6.5
2,4-Dinitrophenol		0.112	0.154	0.192	0.204	0.227	0.178	25.4
4-Nitrophenol		0.247	0.321	0.347	0.350	0.355	0.324	13.9
Dibenzofuran	1.797	1.840	1.845	2.000	1.909		1.878	4.2
2,4-Dinitrotoluene	0.371	0.388	0.479	0.525	0.495		0.452	15.1
Diethylphthalate	1.603	1.609	1.823	1.914	1.810		1.752	7.9
2-Chlorophenol	1.301	1.345	1.528	1.611	1.529		1.463	9.1

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN030824 SAS No.: BN030824 SDG No.: BN030824

Instrument ID: Calibration Date(s): 3/8/2024 1:

Calibration Time(s): 10:28

LAB FILE ID: RRFAL1 = BN030349.D RRFAL2 = BN030350.D RRFAL3 = BN030351.D
RRFAL4 = BN030352.D RRFAL5 = BN030353.D RRFAL6 = BN030354.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Fluorene	1.484	1.486	1.573	1.648	1.562		1.551	4.4
4-Chlorophenyl-phenylether	0.724	0.725	0.743	0.785	0.735		0.742	3.4
4-Nitroaniline		0.242	0.320	0.322	0.284	0.267	0.287	12.0
4,6-Dinitro-2-methylphenol		0.100	0.124	0.144	0.151	0.154	0.135	16.6
N-Nitrosodiphenylamine	0.553	0.608	0.636	0.677	0.682		0.631	8.5
1,2,4,5-Tetrachlorobenzene	0.571	0.625	0.582	0.688	0.692		0.632	9.0
4-Bromophenyl-phenylether	0.193	0.197	0.218	0.233	0.231		0.214	8.6
Hexachlorobenzene	0.217	0.222	0.239	0.249	0.246		0.235	6.2
Atrazine		0.196	0.230	0.230	0.219	0.210	0.217	6.6
Pentachlorophenol		0.129	0.149	0.169	0.170	0.177	0.159	12.4
2-Methylphenol		1.097	1.320	1.443	1.334	1.425	1.324	10.4
Phenanthrene	1.074	1.127	1.180	1.227	1.225		1.166	5.7
Pentachlorobenzene	0.256	0.263	0.271	0.296	0.306		0.278	7.8
Anthracene	1.093	1.144	1.218	1.234	1.244		1.187	5.5
1,2,3,4-Tetrachlorobenzene	0.272	0.288	0.272	0.317	0.343		0.299	10.4
Carbazole		0.972	1.076	1.073	1.085	1.062	1.054	4.4
Di-n-butylphthalate	1.255	1.336	1.577	1.563	1.590		1.464	10.7
Fluoranthene	1.394	1.324	1.608	1.782	1.673		1.556	12.3
Pyrene	1.485	1.385	1.664	1.784	1.679		1.600	10.1
Butylbenzylphthalate	0.612	0.633	0.833	0.873	0.881		0.766	17.3
3,3-Dichlorobenzidine		0.366	0.449	0.448	0.465	0.445	0.435	9.0
2,2-oxybis(1-Chloropropane)		1.159	1.297	1.404	1.293	1.263	1.283	6.8
Benzo(a)anthracene	1.381	1.429	1.509	1.588	1.598		1.501	6.4
Chrysene	1.290	1.330	1.423	1.451	1.466		1.392	5.6
Bis(2-ethylhexyl)phthalate	0.953	0.977	1.269	1.282	1.319		1.160	15.4
Di-n-octyl phthalate		1.404	2.116	2.044	1.898	1.899	1.872	14.9
Benzo(b)fluoranthene	1.089	1.263	1.418	1.456	1.369		1.319	11.2
Benzo(k)fluoranthene	1.227	1.260	1.445	1.488	1.389		1.362	8.4
Benzo(a)pyrene	1.054	1.211	1.258	1.392	1.325		1.248	10.3
Indeno(1,2,3-cd)pyrene	1.320	1.460	1.390	1.625	1.626		1.484	9.3
Dibenzo(a,h)anthracene	1.069	1.199	1.125	1.341	1.317		1.210	9.8
Benzo(g,h,i)perylene	1.081	1.198	1.091	1.322	1.319		1.202	9.8
Acetophenone		2.017	2.350	2.427	2.163	2.283	2.248	7.2
2,3,4,6-Tetrachlorophenol	0.297	0.323	0.361	0.397	0.383		0.352	11.8
1,4-Dioxane-d8	0.589	0.621	0.563	0.595	0.595		0.593	3.5
Pyridine-d5		1.236	1.323	1.431	1.495	1.588	1.415	9.8

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN030824 SAS No.: BN030824 SDG No.: BN030824

Instrument ID: Calibration Date(s): 3/8/2024 1:

Calibration Time(s): 10:28

LAB FILE ID: RRFAL1 = BN030349.D RRFAL2 = BN030350.D RRFAL3 = BN030351.D
RRFAL4 = BN030352.D RRFAL5 = BN030353.D RRFAL6 = BN030354.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Phenol-d5		1.542	1.771	1.912	1.787	1.860	1.774	8.0
Bis-(2-Chloroethyl)ether-d8		0.891	1.009	1.087	1.032	1.019	1.008	7.1
2-Chlorophenol-d4	1.243	1.288	1.476	1.598	1.502		1.421	10.6
4-Methylphenol-d8		1.159	1.407	1.528	1.409	1.489	1.399	10.3
Nitrobenzene-d5	0.146	0.152	0.166	0.184	0.187		0.167	11.2
2-Nitrophenol-d4	0.139	0.156	0.178	0.196	0.205		0.175	15.6
2,4-Dichlorophenol-d3	0.261	0.285	0.326	0.345	0.344		0.312	12.0
4-Chloroaniline-d4		0.402	0.478	0.499	0.471	0.465	0.463	7.9
4-Methylphenol		1.183	1.442	1.513	1.395	1.461	1.399	9.1
Dimethylphthalate-d6	1.479	1.481	1.630	1.756	1.717		1.613	8.0
Acenaphthylene-d8	1.602	1.725	1.813	2.014	1.981		1.827	9.5
4-Nitrophenol-d4		0.218	0.281	0.310	0.312	0.309	0.286	14.0
Fluorene-d10	1.238	1.273	1.320	1.419	1.365		1.323	5.4
4,6-Dinitro-2-methylphenol-		0.089	0.116	0.132	0.141	0.146	0.125	18.4
Anthracene-d10	0.844	0.938	1.005	1.039	1.029		0.971	8.3
Pyrene-d10	1.152	1.094	1.329	1.430	1.346		1.270	11.1
Benzo(a)pyrene-d12	0.906	0.976	1.076	1.160	1.120		1.048	10.0
N-Nitroso-di-n-propylamine	0.936	0.957	1.196	1.215	1.073		1.076	12.1

All other compounds must meet a minimum RRF of 0.010.

CHEMTECH

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN030824 SAS No.: BN030824 SDG NO.: BN030824

EPA Sample No.: SSTD020241 Date Analyzed: Mar 8 2024 12:00AM

Lab File ID: BN030351.D Time Analyzed: 14:39

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	120978	7.799	513587	10.59	336510	14.45
	UPPER LIMIT	241956	8.299	1027174	11.093	673020	14.951
	LOWER LIMIT	60489	7.299	256793.5	10.093	168255	13.951
	EPA SAMPLE NO.						
01	SICV245	86950	7.79	376022	10.59	247807	14.45

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.

CHEMTECH

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN030824 SAS No.: BN030824 SDG NO.: BN030824

EPA Sample No.: _____ Date Analyzed: _____

Lab File ID: _____ Time Analyzed: _____

Instrument ID: _____ GC Column: _____ ID: _____ (mm)

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD						
UPPER LIMIT						
LOWER LIMIT						
EPA SAMPLE NO.						

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.

CHEMTECH

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN030824 SAS No.: BN030824 SDG NO.: BN030824

EPA Sample No.: SSTD020241 Date Analyzed: Mar 8 2024 12:00AM

Lab File ID: BN030351.D Time Analyzed: 14:39

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	694807	17.21	581040	21.433	558872	23.786
	UPPER LIMIT	1389614	17.71	1162080	21.933	1117744	24.286
	LOWER LIMIT	347403.5	16.71	290520	20.933	279436	23.286
	EPA SAMPLE NO.						
01	SICV245	538981	17.21	459282	21.43	432936	23.79

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.

CHEMTECH

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: BN030824 SAS No.: BN030824 SDG NO.: BN030824

EPA Sample No.: _____ Date Analyzed: _____

Lab File ID: _____ Time Analyzed: _____

Instrument ID: _____ GC Column: _____ ID: _____ (mm)

	IS4 AREA #	RT #	IS5 AREA #	RT #	IS6 AREA #	RT #
12 HOUR STD						
UPPER LIMIT						
LOWER LIMIT						
EPA SAMPLE NO.						

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.

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: BN030824

Client:

Analytical Method: SFAM_SVOC **DataFile:**

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
SSTDICV020	1,4-Dioxane	8	0	ug/L	0				0	0	
	Benzaldehyde	20	0	ug/L	0				0	0	
	Pyridine	20	0	ug/L	0				0	0	
	Phenol	20	0	ug/L	0				0	0	
	Bis(2-chloroethyl)ether	20	0	ug/L	0				0	0	
	2-Chlorophenol	20	0	ug/L	0				0	0	
	2-Methylphenol	20	0	ug/L	0				0	0	
	2,2-oxybis(1-Chloropropane)	20	0	ug/L	0				0	0	
	Acetophenone	20	0	ug/L	0				0	0	
	4-Methylphenol	20	0	ug/L	0				0	0	
	N-Nitroso-di-n-propylamine	20	0	ug/L	0				0	0	
	Hexachloroethane	20	0	ug/L	0				0	0	
	Nitrobenzene	20	0	ug/L	0				0	0	
	Isophorone	20	0	ug/L	0				0	0	
	2-Nitrophenol	20	0	ug/L	0				0	0	
	2,4-Dimethylphenol	20	0	ug/L	0				0	0	
	Bis(2-chloroethoxy)methane	20	0	ug/L	0				0	0	
	2,4-Dichlorophenol	20	0	ug/L	0				0	0	
	Naphthalene	20	0	ug/L	0				0	0	
	4-Chloroaniline	20	0	ug/L	0				0	0	
	Hexachlorobutadiene	20	0	ug/L	0				0	0	
	Caprolactam	20	0	ug/L	0				0	0	
	4-Chloro-3-methylphenol	20	0	ug/L	0				0	0	
	1-Methylnaphthalene	20	0	ug/L	0				0	0	
	2-Methylnaphthalene	20	0	ug/L	0				0	0	
	Hexachlorocyclopentadiene	20	0	ug/L	0				0	0	
	2,4,6-Trichlorophenol	20	0	ug/L	0				0	0	
	2,4,5-Trichlorophenol	20	0	ug/L	0				0	0	
	1,1'-Biphenyl	20	0	ug/L	0				0	0	
	2-Chloronaphthalene	20	0	ug/L	0				0	0	
	2-Nitroaniline	20	0	ug/L	0				0	0	
	Dimethylphthalate	20	0	ug/L	0				0	0	
	2,6-Dinitrotoluene	20	0	ug/L	0				0	0	
	Acenaphthylene	20	0	ug/L	0				0	0	
	3-Nitroaniline	20	0	ug/L	0				0	0	
	Acenaphthene	20	0	ug/L	0				0	0	
	2,4-Dinitrophenol	20	0	ug/L	0				0	0	
	4-Nitrophenol	20	0	ug/L	0				0	0	
	Dibenzofuran	20	0	ug/L	0				0	0	
	2,4-Dinitrotoluene	20	0	ug/L	0				0	0	
	Diethylphthalate	20	0	ug/L	0				0	0	
	Fluorene	20	0	ug/L	0				0	0	
	4-Chlorophenyl-phenylether	20	0	ug/L	0				0	0	
	4-Nitroaniline	20	0	ug/L	0				0	0	
	4,6-Dinitro-2-methylphenol	20	0	ug/L	0				0	0	
	N-Nitrosodiphenylamine	20	0	ug/L	0				0	0	

CHEMTECH

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary
SW-846

SDG No.: BN030824

Client:

Analytical Method: SFAM_SVOC **DataFile:**

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
SSTDICV020	1,2,4,5-Tetrachlorobenzene	20	0	ug/L	0				0	0	
	4-Bromophenyl-phenylether	20	0	ug/L	0				0	0	
	Hexachlorobenzene	20	0	ug/L	0				0	0	
	Atrazine	20	0	ug/L	0				0	0	
	Pentachlorophenol	20	0	ug/L	0				0	0	
	Phenanthrene	20	0	ug/L	0				0	0	
	Pentachlorobenzene	20	0	ug/L	0				0	0	
	Anthracene	20	0	ug/L	0				0	0	
	1,2,3,4-Tetrachlorobenzene	20	0	ug/L	0				0	0	
	Carbazole	20	0	ug/L	0				0	0	
	Di-n-butylphthalate	20	0	ug/L	0				0	0	
	Fluoranthene	20	0	ug/L	0				0	0	
	Pyrene	20	0	ug/L	0				0	0	
	Butylbenzylphthalate	20	0	ug/L	0				0	0	
	3,3'-Dichlorobenzidine	20	0	ug/L	0				0	0	
	Benzo(a)anthracene	20	0	ug/L	0				0	0	
	Chrysene	20	0	ug/L	0				0	0	
	Bis(2-ethylhexyl)phthalate	20	0	ug/L	0				0	0	
	Di-n-octylphthalate	20	0	ug/L	0				0	0	
	Benzo(b)fluoranthene	20	0	ug/L	0				0	0	
	Benzo(k)fluoranthene	20	0	ug/L	0				0	0	
	Benzo(a)pyrene	20	0	ug/L	0				0	0	
	Indeno(1,2,3-cd)pyrene	20	0	ug/L	0				0	0	
	Dibenzo(a,h)anthracene	20	0	ug/L	0				0	0	
	Benzo(g,h,i)perylene	20	0	ug/L	0				0	0	
	2,3,4,6-Tetrachlorophenol	20	0	ug/L	0				0	0	

CHEMTECH

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

Lab Name: CHEMTECH Contract:

Lab Code: CHEM Case No.: BN030824 SAS No.: BN030824 SDG NO.: BN030824

Lab File ID: Lab Sample ID:

Instrument ID: Date Extracted:

Matrix: (soil/water) Date Analyzed:

Level: (low/med) Time Analyzed:

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

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

COMMENTS:

CHEMTECH

Surrogate Summary

SW-846

SDG No.: _____

Client: _____

Analytical Method:

Lab Sample ID	Client ID	Datafile	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High

CHEMTECH

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: BN030824

Lab Code: CHEM SAS No.: BN030824 SDG NO.: BN030824

Lab File ID: BN030348.D DFTPP Injection Date: 03/08/2024

Instrument ID: BNA_N DFTPP Injection Time: 09:52

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	39
68	Less than 2.0% of mass 69	0.9 (1.9) 1
69	Mass 69 relative abundance	48.1
70	Less than 2.0% of mass 69	0.3 (0.6) 1
127	10.0 - 80.0% of mass 198	57.8
197	Less than 2.0% of mass 198	0.6
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	26.6
365	Greater than 1% of mass 198	4.3
441	Present, but less than mass 443	10.8
442	Greater than 50% of mass 198	64.5
443	15.0 - 24.0% of mass 442	13 (20.2) 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
SSTD005239	SSTD00514	BN030349.D	03/08/2024	10:28
SSTD010240	SSTD01015	BN030350.D	03/08/2024	11:03
SSTD020241	SSTD02016	BN030351.D	03/08/2024	11:40
SSTD040242	SSTD04017	BN030352.D	03/08/2024	12:15
SSTD080243	SSTD08018	BN030353.D	03/08/2024	12:51
SSTD160244	SSTD16019	BN030354.D	03/08/2024	13:27
SICV245	SSTDICV020	BN030355.D	03/08/2024	14:39