



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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: LIRO01
Lab Code: CHEM Case No.: P1747 SAS No.: P1747 SDG No.: P1747
Instrument ID: BNA_G Calibration Date(s): 03/13/2024 03/13/2024
Calibration Time(s): 10:44 15:27

LAB FILE ID:		RRF2.5 = BG060621.D			RRF005 = BG060622.D		RRF010 = BG060623.D	
		RRF020 = BG060624.D			RRF040 = BG060625.D		RRF050 = BG060626.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.257	1.230	1.334	1.299	1.283	1.272	3.0
Benzaldehyde		1.091	1.076	1.168	1.084	0.998	1.033	10.0
Phenol-d6		1.710	1.816	1.952	1.917	1.867	1.846	4.4
Phenol		1.797	1.778	1.943	1.932	1.851	1.852	3.8
bis(2-Chloroethyl)ether		1.483	1.488	1.524	1.516	1.432	1.476	2.9
2-Chlorophenol		1.336	1.359	1.445	1.431	1.395	1.391	2.8
2-Methylphenol		1.306	1.350	1.499	1.496	1.428	1.422	5.1
2,2-oxybis(1-Chloropropane)		2.752	2.810	3.040	2.934	2.837	2.866	3.6
Acetophenone		0.527	0.523	0.559	0.548	0.535	0.536	2.9
3+4-Methylphenols		1.786	1.826	1.984	2.023	1.927	1.918	4.6
n-Nitroso-di-n-propylamine	1.264	1.142	1.268	1.350	1.341	1.272	1.279	5.1
Nitrobenzene-d5		0.343	0.349	0.397	0.398	0.399	0.384	6.9
Hexachloroethane		0.481	0.506	0.552	0.526	0.519	0.519	4.4
Nitrobenzene		0.348	0.351	0.398	0.401	0.393	0.384	6.3
Isophorone		0.727	0.741	0.793	0.788	0.777	0.769	3.5
2-Nitrophenol		0.106	0.114	0.145	0.153	0.155	0.142	15.9
2,4-Dimethylphenol		0.380	0.332	0.349	0.337	0.329	0.340	5.8
bis(2-Chloroethoxy)methane		0.456	0.461	0.482	0.466	0.450	0.461	2.8
2,4-Dichlorophenol		0.285	0.295	0.310	0.316	0.310	0.306	3.9
Naphthalene		1.140	1.123	1.164	1.113	1.107	1.117	3.0
4-Chloroaniline		0.438	0.472	0.492	0.481	0.472	0.471	3.7
Hexachlorobutadiene		0.219	0.219	0.231	0.221	0.222	0.221	2.6
Caprolactam		0.087	0.101	0.108	0.106	0.105	0.103	6.9
4-Chloro-3-methylphenol		0.349	0.362	0.390	0.385	0.379	0.374	3.9
2-Methylnaphthalene		0.788	0.767	0.817	0.773	0.760	0.772	3.5
Hexachlorocyclopentadiene		0.245	0.254	0.304	0.315	0.321	0.302	12.7
2,4,6-Trichlorophenol		0.352	0.366	0.406	0.405	0.408	0.394	6.4
2-Fluorobiphenyl		1.509	1.518	1.596	1.471	1.459	1.479	5.3
2,4,5-Trichlorophenol		0.402	0.436	0.485	0.484	0.484	0.467	7.4
1,1-Biphenyl		1.523	1.534	1.593	1.520	1.499	1.520	2.9
2-Chloronaphthalene		1.089	1.148	1.203	1.169	1.137	1.147	3.4
2-Nitroaniline		0.277	0.327	0.376	0.411	0.416	0.379	15.0
Dimethylphthalate		1.434	1.504	1.571	1.522	1.499	1.500	3.3
Acenaphthylene		1.813	1.868	1.957	1.881	1.882	1.869	3.0
2,6-Dinitrotoluene		0.204	0.251	0.286	0.295	0.293	0.276	13.3
3-Nitroaniline		0.264	0.289	0.331	0.332	0.337	0.318	9.3

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1



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Instrument ID: BNA_G Calibration Date(s): 03/13/2024 03/13/2024
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		RRF020 = BG060624.D			RRF040 = BG060625.D		RRF050 = BG060626.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Acenaphthene		1.120	1.111	1.184	1.113	1.096	1.117	3.0
2,4-Dinitrophenol			0.077	0.099	0.123	0.126	0.118	21.6
4-Nitrophenol			0.195	0.226	0.246	0.251	0.237	9.8
Dibenzofuran		1.845	1.826	1.903	1.804	1.792	1.808	3.6
2,4-Dinitrotoluene		0.255	0.302	0.351	0.373	0.380	0.348	14.6
Diethylphthalate		1.496	1.559	1.617	1.554	1.538	1.543	3.1
4-Chlorophenyl-phenylether		0.725	0.741	0.776	0.729	0.724	0.733	3.1
Fluorene		1.413	1.464	1.532	1.453	1.436	1.447	3.6
4-Nitroaniline		0.252	0.307	0.338	0.347	0.344	0.326	10.9
4,6-Dinitro-2-methylphenol			0.057	0.076	0.087	0.087	0.083	17.6
n-Nitrosodiphenylamine		0.605	0.616	0.674	0.631	0.621	0.626	4.1
2,4,6-Tribromophenol		0.178	0.218	0.234	0.245	0.248	0.232	11.5
4-Bromophenyl-phenylether		0.209	0.204	0.229	0.213	0.215	0.216	4.1
Hexachlorobenzene		0.241	0.248	0.260	0.247	0.245	0.248	2.7
Atrazine		0.192	0.207	0.224	0.214	0.209	0.209	4.8
Pentachlorophenol			0.119	0.153	0.170	0.170	0.161	13.6
Phenanthrene		1.100	1.098	1.162	1.071	1.048	1.077	4.9
Anthracene		1.082	1.102	1.158	1.092	1.075	1.089	3.9
Carbazole		0.896	0.961	1.017	0.954	0.950	0.947	4.4
Di-n-butylphthalate		1.044	1.139	1.244	1.198	1.172	1.154	5.8
Fluoranthene		1.170	1.192	1.283	1.212	1.194	1.192	4.5
Pyrene		1.385	1.423	1.489	1.414	1.375	1.396	4.4
Terphenyl-d14		1.201	1.204	1.244	1.096	1.065	1.106	10.8
Butylbenzylphthalate		0.436	0.477	0.542	0.557	0.560	0.528	9.7
3,3-Dichlorobenzidine		0.410	0.430	0.475	0.494	0.478	0.464	7.0
Benzo (a) anthracene		1.342	1.372	1.434	1.402	1.382	1.377	2.9
Chrysene		1.344	1.335	1.385	1.346	1.320	1.337	2.7
Bis (2-ethylhexyl) phthalate		0.668	0.705	0.795	0.826	0.815	0.779	8.5
Di-n-octyl phthalate		1.039	1.134	1.296	1.375	1.368	1.283	11.1
Benzo (b) fluoranthene		1.030	1.059	1.149	1.137	1.097	1.100	4.2
Benzo (k) fluoranthene		1.112	1.106	1.207	1.164	1.174	1.156	3.3
Benzo (a) pyrene		1.013	1.002	1.121	1.101	1.098	1.079	4.8
Indeno (1,2,3-cd) pyrene		1.240	1.273	1.400	1.396	1.403	1.364	5.6
Dibenzo (a,h) anthracene		1.087	1.078	1.184	1.182	1.175	1.158	4.7
Benzo (g,h,i) perylene		1.019	1.059	1.152	1.154	1.146	1.121	5.3
1,2,4,5-Tetrachlorobenzene		0.590	0.611	0.639	0.613	0.619	0.614	2.8

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
1,4-Dioxane		0.574	0.543	0.583	0.521	0.514	0.533	7.1
2,3,4,6-Tetrachlorophenol		0.320	0.376	0.394	0.406	0.411	0.389	8.5

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