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

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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG No.: P3845

Instrument ID: BNA_M Calibration Date(s): 09/14/2024 09/14/2024

Calibration Time(s): 11:57 16:34

LAB FILE ID: RRF2.5 = BM047520.D RRF005 = BM047521.D RRF010 = BM047522.D
RRF020 = BM047523.D RRF040 = BM047524.D RRF050 = BM047525.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.724	0.730	0.742	0.730	0.717	0.727	1.7
Pyridine		1.680	1.592	1.594	1.587	1.559	1.601	2.4
2-Fluorophenol		1.216	1.208	1.228	1.244	1.245	1.256	4.0
Benzaldehyde		0.923	0.986	0.993	0.837	0.771	0.841	15.8
Aniline		1.542	1.529	1.565	1.586	1.563	1.568	1.7
Phenol-d6		1.632	1.623	1.717	1.795	1.809	1.769	6.6
bis(2-Chloroethyl)ether		1.451	1.413	1.426	1.418	1.397	1.422	1.2
1,2-Dichlorobenzene		1.545	1.492	1.503	1.507	1.489	1.519	1.8
1,3-Dichlorobenzene		1.586	1.512	1.497	1.503	1.467	1.516	2.5
1,4-Dichlorobenzene		1.593	1.535	1.529	1.527	1.507	1.544	1.9
Benzyl Alcohol		1.094	1.097	1.191	1.232	1.230	1.198	6.3
2,2-oxybis(1-Chloropropane)		2.103	2.031	2.065	2.009	1.949	2.000	3.7
Acetophenone		0.521	0.509	0.519	0.527	0.524	0.526	2.3
n-Nitroso-di-n-propylamine	1.067	1.144	1.154	1.230	1.244	1.233	1.193	5.4
Nitrobenzene-d5		0.387	0.384	0.400	0.406	0.400	0.400	2.8
Hexachloroethane		0.639	0.606	0.627	0.615	0.603	0.617	2.2
Nitrobenzene		0.409	0.406	0.417	0.413	0.407	0.411	1.5
Isophorone		0.671	0.679	0.705	0.711	0.710	0.703	2.8
bis(2-Chloroethoxy)methane		0.448	0.436	0.441	0.441	0.436	0.441	1.1
1,2,4-Trichlorobenzene		0.313	0.296	0.300	0.302	0.305	0.309	3.4
Naphthalene		1.083	1.042	1.056	1.077	1.079	1.080	2.5
4-Chloroaniline		0.382	0.373	0.389	0.393	0.393	0.391	2.6
Hexachlorobutadiene		0.173	0.166	0.167	0.169	0.169	0.171	2.7
Caprolactam		0.073	0.079	0.090	0.093	0.093	0.089	10.6
2-Methylnaphthalene		0.683	0.672	0.693	0.726	0.727	0.719	5.3
Hexachlorocyclopentadiene		0.168	0.163	0.168	0.183	0.182	0.177	6.2
2-Fluorobiphenyl		1.331	1.295	1.385	1.515	1.523	1.452	8.0
1,1-Biphenyl		1.498	1.446	1.490	1.571	1.584	1.556	5.2
2-Chloronaphthalene		1.157	1.137	1.169	1.218	1.234	1.208	4.6
2-Nitroaniline		0.282	0.314	0.355	0.376	0.380	0.355	11.7
Dimethylphthalate		1.316	1.308	1.336	1.372	1.376	1.363	3.3
Acenaphthylene		1.607	1.598	1.682	1.788	1.792	1.744	6.6
2,6-Dinitrotoluene		0.241	0.267	0.285	0.297	0.300	0.288	9.1
3-Nitroaniline		0.263	0.284	0.316	0.336	0.339	0.320	10.7

All other compounds must meet a minimum RRF of 0.010.

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Acenaphthene		1.108	1.111	1.162	1.247	1.267	1.222	7.8
Dibenzofuran		1.659	1.609	1.655	1.734	1.743	1.717	4.6
2,4-Dinitrotoluene		0.302	0.338	0.378	0.408	0.409	0.384	12.6
Diethylphthalate		1.358	1.374	1.435	1.482	1.473	1.451	4.6
4-Chlorophenyl-phenylether		0.616	0.625	0.683	0.744	0.745	0.707	9.2
Fluorene		1.350	1.378	1.506	1.630	1.642	1.546	8.7
4-Nitroaniline		0.276	0.315	0.377	0.420	0.417	0.376	15.5
n-Nitrosodiphenylamine		0.558	0.546	0.590	0.632	0.633	0.612	7.9
Azobenzene		1.526	1.559	1.620	1.654	1.619	1.597	2.7
2,4,6-Tribromophenol		0.149	0.159	0.177	0.202	0.211	0.193	16.7
4-Bromophenyl-phenylether		0.176	0.170	0.183	0.197	0.201	0.194	9.6
Hexachlorobenzene		0.210	0.196	0.206	0.222	0.224	0.220	7.8
Atrazine		0.149	0.155	0.169	0.178	0.174	0.169	7.5
Phenanthrene		1.037	0.999	1.054	1.134	1.131	1.102	6.6
Anthracene		0.948	0.939	1.021	1.104	1.102	1.059	8.6
Carbazole		0.942	0.946	1.015	1.090	1.085	1.049	7.9
Di-n-butylphthalate		1.064	1.097	1.238	1.340	1.349	1.256	10.1
Fluoranthene		1.036	1.044	1.149	1.281	1.276	1.203	10.4
Benzidine		0.303	0.320	0.312	0.253	0.265	0.282	12.4
Pyrene		1.327	1.317	1.353	1.494	1.564	1.459	9.2
Terphenyl-d14		0.989	1.037	1.142	1.256	1.239	1.116	13.2
Butylbenzylphthalate		0.433	0.474	0.540	0.588	0.604	0.562	14.9
3,3-Dichlorobenzidine		0.297	0.326	0.358	0.362	0.356	0.347	7.5
Benzo(a)anthracene		1.245	1.220	1.286	1.333	1.325	1.304	4.3
Chrysene		1.196	1.178	1.201	1.254	1.250	1.233	3.4
Bis(2-ethylhexyl)phthalate		0.663	0.761	0.854	0.928	0.947	0.880	14.7
Di-n-octyl phthalate		0.873	1.043	1.243	1.301	1.309	1.244	18.0
Benzo(b)fluoranthene		1.120	1.142	1.236	1.340	1.381	1.294	9.9
Benzo(k)fluoranthene		1.113	1.131	1.212	1.364	1.350	1.282	10.0
Benzo(a)pyrene		0.906	0.941	1.018	1.098	1.114	1.061	10.2
Indeno(1,2,3-cd)pyrene		1.079	1.075	1.152	1.184	1.238	1.197	9.8
Dibenzo(a,h)anthracene		0.894	0.894	0.964	0.994	1.047	1.007	10.6
Benzo(g,h,i)perylene		0.917	0.883	0.940	0.968	1.018	0.984	9.6
1,2,4,5-Tetrachlorobenzene		0.505	0.491	0.514	0.547	0.554	0.541	7.2
1,4-Dioxane		0.601	0.559	0.552	0.520	0.506	0.538	6.5

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
1-Methylnaphthalene		0.679	0.670	0.694	0.716	0.728	0.714	4.9

All other compounds must meet a minimum RRF of 0.010.