Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ROYF02

Lab Code: CHEM Case No.: Q1421 SAS No.: Q1421 SDG No.: Q1421

Instrument ID: BNA_F Calibration Date(s): 02/27/2025 02/27/2025

Calibration Time(s): 15:17 18:45

LAB FILE ID: RRF2.5 = BF141793.D RRF005 = BF141794.D RRF010 = BF141795.D
RRF020 = BF141796.D RRF040 = BF141797.D RRF050 = BF141798.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.348	1.315	1.326	1.286	1.185	1.252	6.9
Benzaldehyde		1.151	1.088	1.024	0.982	0.874	0.948	16.8
Phenol-d6		1.750	1.707	1.728	1.684	1.541	1.630	6.9
Phenol		1.854	1.823	1.866	1.819	1.641	1.742	7.3
bis(2-Chloroethyl)ether		1.377	1.376	1.392	1.339	1.279	1.328	4.3
2-Chlorophenol		1.442	1.406	1.439	1.412	1.299	1.355	6.7
2-Methylphenol		1.155	1.132	1.165	1.164	1.079	1.118	4.2
2,2-oxybis(1-Chloropropane)		2.139	2.094	2.149	2.079	1.930	2.016	6.5
Acetophenone		0.539	0.517	0.512	0.497	0.456	0.487	8.0
3+4-Methylphenols		1.507	1.510	1.506	1.442	1.304	1.392	9.3
n-Nitroso-di-n-propylamine	1.133	1.136	1.105	1.120	1.087	1.009	1.072	6.0
Nitrobenzene-d5		0.248	0.271	0.318	0.341	0.332	0.313	12.1
Hexachloroethane		0.559	0.542	0.575	0.578	0.533	0.547	4.4
Nitrobenzene		0.273	0.303	0.346	0.363	0.349	0.335	10.1
Isophorone		0.702	0.682	0.690	0.682	0.642	0.672	3.4
2-Nitrophenol		0.079	0.090	0.116	0.144	0.145	0.127	25.2
2,4-Dimethylphenol		0.258	0.250	0.256	0.254	0.238	0.247	3.9
bis(2-Chloroethoxy)methane		0.463	0.448	0.450	0.435	0.404	0.429	6.2
2,4-Dichlorophenol		0.280	0.288	0.296	0.298	0.277	0.285	3.2
Naphthalene		1.140	1.097	1.100	1.043	0.960	1.028	8.7
4-Chloroaniline		0.402	0.392	0.398	0.379	0.350	0.377	5.7
Hexachlorobutadiene		0.199	0.193	0.202	0.199	0.188	0.194	3.0
Caprolactam		0.087	0.086	0.090	0.091	0.085	0.088	2.8
4-Chloro-3-methylphenol		0.333	0.316	0.329	0.326	0.300	0.317	4.2
2-Methylnaphthalene		0.762	0.725	0.723	0.677	0.621	0.674	9.7
Hexachlorocyclopentadiene		0.217	0.230	0.252	0.258	0.246	0.241	5.9
2,4,6-Trichlorophenol		0.355	0.368	0.381	0.398	0.366	0.373	3.7
2-Fluorobiphenyl		1.443	1.387	1.346	1.237	1.128	1.247	11.9
2,4,5-Trichlorophenol		0.348	0.364	0.388	0.383	0.364	0.369	3.9
1,1-Biphenyl		1.694	1.659	1.630	1.519	1.413	1.522	9.4
2-Chloronaphthalene		1.211	1.184	1.201	1.135	1.058	1.124	7.1
2-Nitroaniline		0.152	0.187	0.246	0.300	0.297	0.260	26.0
Dimethylphthalate		1.431	1.405	1.405	1.363	1.262	1.339	6.1
Acenaphthylene		1.847	1.809	1.798	1.711	1.560	1.685	8.5

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
2,6-Dinitrotoluene		0.136	0.184	0.231	0.257	0.251	0.226	21.5
3-Nitroaniline		0.146	0.193	0.243	0.277	0.264	0.241	21.7
Acenaphthene		1.217	1.201	1.197	1.150	1.068	1.137	6.4
2,4-Dinitrophenol			0.049	0.066	0.093	0.096	0.089	29.7
4-Nitrophenol		0.129	0.159	0.197	0.228	0.215	0.198	19.9
Dibenzofuran		1.850	1.794	1.765	1.663	1.532	1.654	9.4
2,4-Dinitrotoluene		0.151	0.198	0.265	0.313	0.310	0.269	25.6
Diethylphthalate		1.429	1.413	1.428	1.383	1.259	1.343	6.8
4-Chlorophenyl-phenylether		0.691	0.665	0.654	0.620	0.572	0.621	8.1
Fluorene		1.433	1.367	1.313	1.228	1.128	1.239	11.0
4-Nitroaniline		0.149	0.187	0.229	0.267	0.248	0.229	19.5
4,6-Dinitro-2-methylphenol			0.043	0.063	0.087	0.090	0.081	28.9
n-Nitrosodiphenylamine		0.702	0.681	0.689	0.665	0.631	0.657	5.6
2,4,6-Tribromophenol		0.175	0.179	0.188	0.199	0.183	0.188	4.8
4-Bromophenyl-phenylether		0.241	0.237	0.239	0.238	0.227	0.234	2.9
Hexachlorobenzene		0.253	0.249	0.255	0.251	0.240	0.247	2.8
Atrazine		0.213	0.208	0.196	0.179	0.149	0.181	17.1
Pentachlorophenol		0.137	0.146	0.161	0.169	0.159	0.156	7.1
Phenanthrene		1.186	1.152	1.134	1.073	1.001	1.070	8.6
Anthracene		1.203	1.156	1.155	1.068	1.002	1.072	9.5
Carbazole		1.074	1.010	1.014	0.955	0.882	0.947	9.7
Di-n-butylphthalate		1.335	1.291	1.291	1.208	1.128	1.200	9.3
Fluoranthene		1.285	1.217	1.192	1.089	0.992	1.096	12.7
Pyrene		1.698	1.687	1.815	1.796	1.738	1.732	3.3
Terphenyl-d14		1.250	1.233	1.297	1.259	1.230	1.236	3.4
Butylbenzylphthalate		0.546	0.579	0.643	0.668	0.650	0.629	7.5
3,3-Dichlorobenzidine		0.406	0.380	0.382	0.393	0.364	0.379	4.3
Benzo(a)anthracene		1.367	1.387	1.384	1.312	1.244	1.321	4.5
Chrysene		1.303	1.184	1.235	1.265	1.185	1.218	4.4
Bis(2-ethylhexyl)phthalate		0.702	0.696	0.788	0.832	0.811	0.783	7.6
Di-n-octyl phthalate		0.903	0.922	1.109	1.307	1.304	1.173	16.6
Benzo(b)fluoranthene		1.442	1.396	1.533	1.306	1.232	1.362	7.8
Benzo(k)fluoranthene		1.274	1.240	1.098	1.214	1.165	1.158	7.7
Benzo(a)pyrene		1.113	1.083	1.133	1.119	1.060	1.093	2.7
Indeno(1,2,3-cd)pyrene		1.097	1.126	1.240	1.346	1.337	1.274	9.5

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
Dibenzo(a,h)anthracene		0.902	0.931	1.025	1.109	1.094	1.040	8.6
Benzo(g,h,i)perylene		0.898	0.929	1.034	1.130	1.129	1.065	10.6
1,2,4,5-Tetrachlorobenzene		0.609	0.600	0.602	0.589	0.549	0.578	5.0
1,4-Dioxane		0.613	0.554	0.576	0.596	0.545	0.568	4.8
2,3,4,6-Tetrachlorophenol		0.313	0.314	0.336	0.339	0.309	0.321	3.7

All other compounds must meet a minimum RRF of 0.010.