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: PORT06

Lab Code: CHEM Case No.: Q2177 SAS No.: Q2177 SDG No.: Q2177

Instrument ID: BNA_F Calibration Date(s): 06/10/2025 06/10/2025

Calibration Time(s): 16:54 20:19

LAB FILE ID: RRF2.5 = BF142712.D RRF005 = BF142713.D RRF010 = BF142714.D
RRF020 = BF142715.D RRF040 = BF142716.D RRF050 = BF142717.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.238	1.170	1.199	1.161	1.220	1.174	4.5
Benzaldehyde			0.943	0.950	0.839	0.839	0.856	11.5
Phenol-d6		1.434	1.339	1.400	1.376	1.446	1.382	3.7
Phenol		1.550	1.503	1.577	1.522	1.607	1.536	3.4
bis(2-Chloroethyl)ether		1.222	1.118	1.149	1.130	1.202	1.147	4.3
2-Chlorophenol		1.288	1.254	1.300	1.290	1.347	1.283	3.1
2-Methylphenol		0.978	0.950	0.995	0.992	1.043	0.984	3.6
2,2-oxybis(1-Chloropropane)		1.957	1.812	1.840	1.806	1.875	1.806	6.0
Acetophenone		0.475	0.451	0.458	0.435	0.454	0.445	4.8
3+4-Methylphenols			1.261	1.285	1.246	1.299	1.240	4.8
n-Nitroso-di-n-propylamine	0.885	0.912	0.870	0.886	0.878	0.921	0.880	3.4
Nitrobenzene-d5		0.381	0.363	0.369	0.358	0.378	0.365	3.2
Hexachloroethane		0.562	0.521	0.545	0.524	0.552	0.530	4.7
Nitrobenzene		0.338	0.313	0.326	0.320	0.335	0.324	3.1
Isophorone		0.657	0.621	0.628	0.603	0.630	0.619	3.8
2-Nitrophenol		0.172	0.174	0.183	0.181	0.192	0.181	3.9
2,4-Dimethylphenol		0.318	0.303	0.311	0.304	0.321	0.308	3.1
bis(2-Chloroethoxy)methane		0.408	0.381	0.392	0.377	0.397	0.384	4.3
2,4-Dichlorophenol		0.284	0.281	0.292	0.280	0.300	0.284	3.5
Naphthalene		1.065	0.997	1.021	0.972	1.008	0.989	5.2
4-Chloroaniline		0.429	0.389	0.399	0.399	0.408	0.397	4.7
Hexachlorobutadiene		0.210	0.204	0.206	0.197	0.205	0.200	4.4
Caprolactam			0.077	0.079	0.075	0.079	0.077	2.8
4-Chloro-3-methylphenol		0.317	0.299	0.303	0.289	0.301	0.296	4.8
2-Methylnaphthalene		0.674	0.649	0.641	0.618	0.636	0.626	5.7
Hexachlorocyclopentadiene			0.297	0.348	0.375	0.414	0.372	11.6
2,4,6-Trichlorophenol		0.349	0.373	0.383	0.373	0.405	0.375	4.8
2-Fluorobiphenyl		1.690	1.610	1.569	1.444	1.535	1.505	9.0
2,4,5-Trichlorophenol		0.404	0.404	0.413	0.400	0.431	0.405	3.6
1,1-Biphenyl		1.630	1.617	1.587	1.506	1.622	1.553	5.4
2-Chloronaphthalene		1.190	1.172	1.178	1.117	1.197	1.144	4.8
2-Nitroaniline		0.320	0.321	0.333	0.323	0.345	0.325	3.4
Dimethylphthalate		1.444	1.368	1.359	1.291	1.379	1.336	5.4
Acenaphthylene		2.053	1.986	2.003	1.881	1.991	1.929	5.6

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		0.307	0.283	0.295	0.285	0.299	0.289	4.5
3-Nitroaniline		0.334	0.313	0.316	0.307	0.322	0.313	4.1
Acenaphthene		1.266	1.222	1.224	1.170	1.237	1.196	4.8
2,4-Dinitrophenol			0.123	0.154	0.157	0.176	0.158	12.2
4-Nitrophenol			0.203	0.219	0.210	0.222	0.212	3.4
Dibenzofuran		1.855	1.777	1.783	1.643	1.741	1.703	6.9
2,4-Dinitrotoluene		0.396	0.383	0.399	0.377	0.396	0.382	4.7
Diethylphthalate		1.508	1.392	1.372	1.256	1.332	1.324	8.6
4-Chlorophenyl-phenylether		0.748	0.692	0.680	0.633	0.663	0.657	8.8
Fluorene		1.547	1.429	1.397	1.279	1.357	1.345	9.5
4-Nitroaniline		0.297	0.281	0.294	0.270	0.283	0.280	4.6
4,6-Dinitro-2-methylphenol			0.104	0.123	0.125	0.137	0.125	9.2
n-Nitrosodiphenylamine		0.710	0.679	0.693	0.672	0.722	0.687	3.4
2,4,6-Tribromophenol		0.236	0.223	0.224	0.213	0.226	0.219	5.3
4-Bromophenyl-phenylether		0.240	0.229	0.238	0.231	0.252	0.236	3.5
Hexachlorobenzene		0.270	0.261	0.263	0.255	0.275	0.262	3.2
Atrazine		0.185	0.174	0.188	0.179	0.191	0.183	3.3
Pentachlorophenol			0.118	0.133	0.139	0.148	0.137	7.8
Phenanthrene		1.165	1.100	1.094	1.036	1.091	1.071	5.6
Anthracene		1.203	1.145	1.140	1.064	1.132	1.108	6.0
Carbazole		1.003	0.960	0.968	0.898	0.931	0.928	6.1
Di-n-butylphthalate		1.105	1.048	1.072	1.005	1.053	1.036	4.8
Fluoranthene		1.184	1.083	1.081	0.965	0.988	1.019	10.1
Pyrene		2.014	1.918	1.928	1.883	1.878	1.859	6.7
Terphenyl-d14		1.609	1.562	1.556	1.462	1.430	1.456	9.1
Butylbenzylphthalate		0.435	0.486	0.526	0.581	0.626	0.550	12.7
3,3-Dichlorobenzidine			0.370	0.403	0.442	0.473	0.427	8.9
Benzo(a)anthracene		1.367	1.273	1.284	1.350	1.400	1.325	3.9
Chrysene		1.298	1.208	1.245	1.172	1.250	1.224	3.7
Bis(2-ethylhexyl)phthalate		0.616	0.709	0.756	0.895	0.977	0.825	16.0
Di-n-octyl phthalate			1.284	1.385	1.677	1.816	1.582	12.8
Benzo(b)fluoranthene		1.256	1.094	1.112	1.162	1.230	1.178	5.7
Benzo(k)fluoranthene		1.236	1.178	1.245	1.076	1.189	1.143	7.9
Benzo(a)pyrene		1.164	1.085	1.122	1.104	1.184	1.120	3.7
Indeno(1,2,3-cd)pyrene		1.438	1.406	1.458	1.498	1.602	1.482	4.3

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo(a,h)anthracene		1.134	1.176	1.214	1.236	1.318	1.210	4.9
Benzo(g,h,i)perylene		1.201	1.164	1.178	1.216	1.295	1.203	3.8
1,2,4,5-Tetrachlorobenzene		0.585	0.592	0.589	0.568	0.618	0.579	4.6
1,4-Dioxane		0.499	0.448	0.472	0.455	0.481	0.465	4.4
2,3,4,6-Tetrachlorophenol		0.364	0.339	0.357	0.327	0.354	0.340	5.6

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