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: PARS02

Lab Code: CHEM Case No.: Q1993 SAS No.: Q1993 SDG No.: Q1993

Instrument ID: BNA_P Calibration Date(s): 05/13/2025 05/13/2025

Calibration Time(s): 10:41 15:26

LAB FILE ID: RRF2.5 = BP024614.D RRF005 = BP024615.D RRF010 = BP024616.D
RRF020 = BP024617.D RRF040 = BP024618.D RRF050 = BP024619.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.134	1.096	1.162	1.105	1.272	1.169	5.5
Benzaldehyde		0.991	1.008	1.046	0.955	1.043	0.966	9.9
Phenol-d6		1.301	1.344	1.486	1.472	1.671	1.492	9.1
Phenol		1.373	1.401	1.526	1.509	1.707	1.540	8.2
bis(2-Chloroethyl)ether		1.317	1.170	1.257	1.213	1.357	1.266	5.0
2-Chlorophenol		1.200	1.204	1.311	1.303	1.465	1.327	7.8
2-Methylphenol		0.966	0.949	1.105	1.099	1.246	1.105	10.3
2,2-oxybis(1-Chloropropane)		1.543	1.445	1.520	1.467	1.617	1.516	4.2
Acetophenone		0.486	0.481	0.511	0.483	0.534	0.500	4.0
3+4-Methylphenols		1.221	1.302	1.503	1.515	1.702	1.503	12.2
n-Nitroso-di-n-propylamine	0.880	0.977	0.967	1.086	1.048	1.142	1.032	8.6
Nitrobenzene-d5		0.381	0.376	0.401	0.382	0.429	0.396	4.7
Hexachloroethane		0.606	0.591	0.582	0.551	0.623	0.589	4.0
Nitrobenzene		0.333	0.340	0.355	0.337	0.373	0.348	4.0
Isophorone		0.644	0.640	0.695	0.673	0.753	0.687	5.9
2-Nitrophenol		0.135	0.143	0.168	0.172	0.196	0.171	14.1
2,4-Dimethylphenol		0.273	0.279	0.300	0.298	0.329	0.301	6.6
bis(2-Chloroethoxy)methane		0.403	0.391	0.411	0.399	0.443	0.410	4.1
2,4-Dichlorophenol		0.250	0.258	0.290	0.291	0.327	0.292	10.0
Naphthalene		1.064	1.026	1.049	0.980	1.091	1.036	3.5
4-Chloroaniline		0.348	0.371	0.420	0.418	0.465	0.418	10.6
Hexachlorobutadiene		0.231	0.214	0.211	0.198	0.222	0.213	5.1
Caprolactam		0.082	0.092	0.104	0.109	0.121	0.106	13.8
4-Chloro-3-methylphenol		0.316	0.325	0.358	0.356	0.391	0.356	7.8
2-Methylnaphthalene		0.673	0.654	0.670	0.640	0.713	0.671	3.7
Hexachlorocyclopentadiene		0.250	0.276	0.350	0.356	0.420	0.352	19.0
2,4,6-Trichlorophenol		0.305	0.341	0.375	0.371	0.428	0.376	11.3
2-Fluorobiphenyl		1.601	1.498	1.553	1.432	1.602	1.527	4.1
2,4,5-Trichlorophenol		0.376	0.375	0.418	0.404	0.471	0.419	8.7
1,1-Biphenyl		1.524	1.434	1.492	1.383	1.586	1.478	4.4
2-Chloronaphthalene		1.147	1.106	1.131	1.065	1.196	1.127	3.6
2-Nitroaniline		0.279	0.304	0.331	0.335	0.381	0.334	10.3
Dimethylphthalate		1.570	1.527	1.518	1.450	1.611	1.524	3.7
Acenaphthylene		1.845	1.818	1.920	1.804	2.029	1.886	4.2

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		0.299	0.308	0.326	0.312	0.354	0.322	5.8
3-Nitroaniline		0.258	0.275	0.329	0.340	0.379	0.329	14.0
Acenaphthene		1.105	1.054	1.094	1.028	1.159	1.084	4.0
2,4-Dinitrophenol			0.098	0.143	0.172	0.201	0.169	24.8
4-Nitrophenol			0.159	0.222	0.257	0.299	0.250	20.8
Dibenzofuran		1.810	1.716	1.740	1.633	1.816	1.730	4.0
2,4-Dinitrotoluene		0.400	0.422	0.456	0.454	0.508	0.454	7.9
Diethylphthalate		1.593	1.542	1.537	1.444	1.639	1.541	4.4
4-Chlorophenyl-phenylether		0.752	0.697	0.700	0.656	0.741	0.703	5.0
Fluorene		1.466	1.415	1.410	1.336	1.494	1.410	4.1
4-Nitroaniline		0.228	0.259	0.326	0.330	0.375	0.317	17.1
4,6-Dinitro-2-methylphenol			0.094	0.120	0.129	0.149	0.129	15.6
n-Nitrosodiphenylamine		0.603	0.589	0.627	0.593	0.667	0.614	4.4
2,4,6-Tribromophenol		0.324	0.321	0.335	0.323	0.369	0.339	5.5
4-Bromophenyl-phenylether		0.231	0.223	0.237	0.226	0.252	0.236	4.3
Hexachlorobenzene		0.303	0.288	0.298	0.282	0.321	0.299	4.2
Atrazine		0.210	0.209	0.227	0.218	0.248	0.225	6.3
Pentachlorophenol		0.124	0.137	0.163	0.172	0.198	0.168	17.1
Phenanthrene		1.144	1.085	1.125	1.051	1.170	1.112	3.7
Anthracene		1.097	1.064	1.142	1.075	1.205	1.119	4.3
Carbazole		0.923	0.944	1.039	1.001	1.114	1.012	6.4
Di-n-butylphthalate		1.182	1.218	1.332	1.260	1.447	1.302	7.0
Fluoranthene		1.271	1.254	1.314	1.250	1.399	1.300	4.2
Pyrene		1.184	1.137	1.197	1.153	1.273	1.198	3.8
Terphenyl-d14		1.192	1.113	1.165	1.125	1.226	1.166	3.3
Butylbenzylphthalate		0.458	0.465	0.537	0.527	0.604	0.533	10.3
3,3-Dichlorobenzidine		0.357	0.392	0.474	0.477	0.539	0.466	14.5
Benzo(a)anthracene		1.251	1.218	1.253	1.208	1.336	1.256	3.4
Chrysene		1.214	1.180	1.185	1.131	1.255	1.190	3.2
Bis(2-ethylhexyl)phthalate		0.673	0.683	0.801	0.766	0.884	0.783	10.3
Di-n-octyl phthalate		1.048	1.116	1.272	1.280	1.458	1.281	12.0
Benzo(b)fluoranthene		1.028	1.070	1.152	1.103	1.288	1.145	7.6
Benzo(k)fluoranthene		1.147	1.106	1.182	1.140	1.258	1.180	4.6
Benzo(a)pyrene		0.995	1.001	1.112	1.064	1.221	1.099	7.7
Indeno(1,2,3-cd)pyrene		1.341	1.357	1.447	1.424	1.608	1.460	6.7

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo(a,h)anthracene		1.068	1.066	1.186	1.167	1.321	1.188	8.2
Benzo(g,h,i)perylene		1.101	1.106	1.167	1.147	1.294	1.181	6.1
1,2,4,5-Tetrachlorobenzene		0.593	0.558	0.574	0.549	0.625	0.581	4.3
1,4-Dioxane		0.641	0.557	0.535	0.505	0.562	0.549	8.3
2,3,4,6-Tetrachlorophenol		0.367	0.364	0.381	0.379	0.428	0.388	5.9

All other compounds must meet a minimum RRF of 0.010.