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

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1901 SAS No.: Q1901 SDG No.: Q1901

Instrument ID: BNA_F Calibration Date(s): 04/30/2025 04/30/2025

Calibration Time(s): 11:24 14:43

LAB FILE ID: RRF2.5 = BF142239.D RRF005 = BF142240.D RRF010 = BF142241.D
RRF020 = BF142242.D RRF040 = BF142243.D RRF050 = BF142244.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.324	1.238	1.265	1.314	1.285	1.252	5.3
Benzaldehyde		1.154	1.088	1.095	1.117	1.078	1.057	8.9
Phenol-d6		1.559	1.505	1.534	1.593	1.550	1.512	4.9
Phenol		1.679	1.588	1.657	1.715	1.687	1.628	5.2
bis(2-Chloroethyl)ether		1.345	1.250	1.270	1.318	1.285	1.262	5.5
2-Chlorophenol		1.252	1.232	1.304	1.379	1.354	1.294	4.6
2-Methylphenol		1.085	1.029	1.068	1.121	1.084	1.060	4.2
2,2-oxybis(1-Chloropropane)		2.368	2.287	2.303	2.386	2.344	2.278	5.2
Acetophenone		0.511	0.482	0.483	0.468	0.461	0.463	7.7
3+4-Methylphenols		1.357	1.323	1.372	1.400	1.366	1.326	5.9
n-Nitroso-di-n-propylamine	0.953	0.987	0.937	0.949	0.967	0.939	0.934	4.8
Nitrobenzene-d5		0.217	0.251	0.302	0.340	0.351	0.304	16.9
Hexachloroethane		0.468	0.466	0.481	0.511	0.514	0.483	4.8
Nitrobenzene		0.229	0.261	0.297	0.328	0.338	0.299	13.3
Isophorone		0.660	0.630	0.642	0.660	0.654	0.639	3.4
2-Nitrophenol		0.048	0.057	0.083	0.115	0.132	0.102	38.4
2,4-Dimethylphenol		0.315	0.319	0.333	0.337	0.333	0.322	4.0
bis(2-Chloroethoxy)methane		0.425	0.404	0.414	0.415	0.410	0.403	5.0
2,4-Dichlorophenol		0.246	0.253	0.274	0.291	0.286	0.269	6.1
Naphthalene		1.106	1.040	1.035	1.020	0.999	0.997	8.2
4-Chloroaniline		0.446	0.414	0.429	0.429	0.423	0.415	6.0
Hexachlorobutadiene		0.180	0.175	0.179	0.185	0.178	0.175	4.3
Caprolactam		0.068	0.073	0.081	0.087	0.089	0.081	9.5
4-Chloro-3-methylphenol		0.262	0.265	0.279	0.295	0.293	0.277	4.8
2-Methylnaphthalene		0.679	0.637	0.633	0.623	0.612	0.613	7.7
Hexachlorocyclopentadiene		0.244	0.265	0.306	0.352	0.368	0.319	15.2
2,4,6-Trichlorophenol		0.275	0.329	0.353	0.370	0.375	0.349	10.5
2-Fluorobiphenyl		1.738	1.580	1.520	1.409	1.347	1.418	15.1
2,4,5-Trichlorophenol		0.322	0.330	0.362	0.404	0.411	0.367	9.2
1,1-Biphenyl		1.773	1.621	1.612	1.581	1.547	1.555	9.4
2-Chloronaphthalene		1.289	1.176	1.191	1.185	1.157	1.157	7.5
2-Nitroaniline		0.119	0.156	0.228	0.295	0.316	0.249	33.2
Dimethylphthalate		1.362	1.284	1.301	1.321	1.309	1.280	5.4
Acenaphthylene		2.149	2.025	2.025	1.997	1.965	1.952	7.9

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		0.098	0.137	0.193	0.241	0.259	0.204	31.5
3-Nitroaniline		0.143	0.187	0.252	0.298	0.311	0.257	26.1
Acenaphthene		1.271	1.175	1.156	1.172	1.138	1.140	7.6
2,4-Dinitrophenol			0.025	0.036	0.057	0.069	0.058	40.4
4-Nitrophenol			0.131	0.177	0.216	0.233	0.201	19.8
Dibenzofuran		1.930	1.775	1.751	1.743	1.713	1.709	8.7
2,4-Dinitrotoluene		0.104	0.145	0.213	0.285	0.311	0.239	36.0
Diethylphthalate		1.324	1.264	1.302	1.313	1.300	1.264	5.6
4-Chlorophenyl-phenylether		0.702	0.642	0.632	0.632	0.614	0.617	9.1
Fluorene		1.493	1.403	1.351	1.317	1.273	1.299	10.7
4-Nitroaniline		0.144	0.177	0.233	0.272	0.287	0.238	23.6
4,6-Dinitro-2-methylphenol			0.022	0.034	0.055	0.065	0.054	39.2
n-Nitrosodiphenylamine		0.727	0.686	0.693	0.712	0.689	0.683	5.1
2,4,6-Tribromophenol		0.139	0.158	0.184	0.204	0.205	0.182	13.7
4-Bromophenyl-phenylether		0.224	0.219	0.223	0.236	0.225	0.223	3.4
Hexachlorobenzene		0.256	0.245	0.248	0.261	0.255	0.249	3.3
Atrazine		0.166	0.172	0.186	0.190	0.190	0.180	5.3
Pentachlorophenol			0.093	0.121	0.144	0.145	0.132	16.2
Phenanthrene		1.218	1.114	1.119	1.112	1.064	1.080	8.5
Anthracene		1.209	1.161	1.151	1.128	1.099	1.105	7.8
Carbazole		1.125	1.047	1.061	1.033	0.996	1.008	8.8
Di-n-butylphthalate		0.986	1.006	1.088	1.069	1.045	1.013	5.9
Fluoranthene		1.221	1.144	1.155	1.085	1.035	1.068	11.2
Pyrene		1.833	1.801	1.849	2.026	1.937	1.845	6.5
Terphenyl-d14		1.472	1.413	1.422	1.481	1.392	1.375	8.4
Butylbenzylphthalate		0.218	0.293	0.405	0.505	0.525	0.426	29.3
3,3-Dichlorobenzidine		0.286	0.317	0.380	0.442	0.450	0.394	17.4
Benzo(a)anthracene		1.379	1.320	1.332	1.438	1.388	1.343	5.1
Chrysene		1.302	1.210	1.249	1.232	1.227	1.222	4.1
Bis(2-ethylhexyl)phthalate		0.384	0.448	0.549	0.695	0.726	0.604	23.7
Di-n-octyl phthalate			0.668	0.875	1.262	1.320	1.133	25.6
Benzo(b)fluoranthene		1.317	1.220	1.208	1.302	1.271	1.242	4.4
Benzo(k)fluoranthene		1.211	1.159	1.222	1.145	1.146	1.136	7.6
Benzo(a)pyrene		1.121	1.098	1.146	1.203	1.180	1.137	3.9
Indeno(1,2,3-cd)pyrene		1.323	1.384	1.466	1.613	1.556	1.465	6.8

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		1.075	1.131	1.197	1.312	1.271	1.189	6.9
Benzo(g,h,i)perylene		1.076	1.138	1.204	1.308	1.267	1.195	6.6
1,2,4,5-Tetrachlorobenzene		0.621	0.575	0.572	0.576	0.566	0.563	6.9
1,4-Dioxane		0.563	0.534	0.561	0.592	0.580	0.559	4.0
2,3,4,6-Tetrachlorophenol		0.252	0.267	0.312	0.334	0.334	0.304	10.7

All other compounds must meet a minimum RRF of 0.010.