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

Lab Name: Alliance Contract: FIRS02

Lab Code: ACE SDG No.: Q2553

Instrument ID: BNA_M Calibration Date(s): 07/08/2025 07/08/2025

Calibration Time(s): 12:39 17:22

LAB FILE ID: RRF2.5 = BM050377.D RRF005 = BM050378.D RRF010 = BM050379.D
RRF020 = BM050380.D RRF040 = BM050381.D RRF050 = BM050382.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.126	1.079	1.149	1.152	1.258	1.162	4.9
Benzaldehyde			0.944	0.985	0.897	0.837	0.871	13.0
Phenol-d6		1.367	1.327	1.441	1.466	1.607	1.465	6.7
Phenol		1.460	1.412	1.516	1.508	1.666	1.528	5.5
bis(2-Chloroethyl)ether		1.202	1.134	1.223	1.196	1.324	1.223	4.9
2-Chlorophenol		1.135	1.105	1.219	1.217	1.341	1.225	6.9
2-Methylphenol		0.922	0.898	0.980	0.990	1.089	0.991	6.7
2,2-oxybis(1-Chloropropane)		1.835	1.741	1.818	1.752	1.907	1.802	3.4
Acetophenone		0.493	0.479	0.501	0.491	0.534	0.500	3.7
3+4-Methylphenols			1.170	1.296	1.325	1.458	1.330	7.3
n-Nitroso-di-n-propylamine	0.790	0.805	0.808	0.888	0.911	1.005	0.887	9.0
Nitrobenzene-d5		0.362	0.355	0.390	0.392	0.429	0.392	6.8
Hexachloroethane		0.518	0.501	0.532	0.520	0.574	0.535	4.7
Nitrobenzene		0.333	0.329	0.353	0.345	0.377	0.350	4.7
Isophorone		0.571	0.574	0.634	0.640	0.702	0.636	7.7
2-Nitrophenol		0.107	0.112	0.132	0.147	0.167	0.143	18.3
2,4-Dimethylphenol		0.295	0.275	0.301	0.299	0.329	0.303	5.6
bis(2-Chloroethoxy)methane		0.407	0.395	0.422	0.417	0.454	0.422	4.6
2,4-Dichlorophenol		0.277	0.279	0.311	0.312	0.344	0.312	8.3
Naphthalene		1.033	0.975	1.024	0.988	1.071	1.016	3.3
4-Chloroaniline		0.398	0.397	0.427	0.429	0.465	0.429	6.0
Hexachlorobutadiene		0.222	0.209	0.222	0.221	0.244	0.228	5.4
Caprolactam			0.064	0.081	0.087	0.096	0.085	13.9
4-Chloro-3-methylphenol		0.258	0.256	0.288	0.295	0.326	0.291	9.1
2-Methylnaphthalene		0.611	0.595	0.638	0.635	0.693	0.641	5.2
Hexachlorocyclopentadiene			0.320	0.361	0.396	0.450	0.407	14.1
2,4,6-Trichlorophenol		0.330	0.335	0.377	0.394	0.443	0.391	11.8
2-Fluorobiphenyl		1.572	1.538	1.611	1.592	1.753	1.620	4.7
2,4,5-Trichlorophenol		0.359	0.376	0.415	0.430	0.484	0.428	11.1
1,1-Biphenyl		1.464	1.419	1.479	1.441	1.586	1.484	3.8
2-Chloronaphthalene		1.164	1.126	1.187	1.150	1.267	1.183	3.9
2-Nitroaniline		0.197	0.211	0.253	0.278	0.312	0.264	17.2
Dimethylphthalate		1.323	1.285	1.368	1.351	1.506	1.377	5.3
Acenaphthylene		1.645	1.658	1.795	1.775	1.956	1.788	6.2

All other compounds must meet a minimum RRF of 0.010.

Alliance TECHNICAL GROUP
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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.196	0.224	0.263	0.273	0.308	0.264	15.4
3-Nitroaniline		0.204	0.231	0.278	0.294	0.330	0.281	16.8
Acenaphthene		1.086	1.050	1.126	1.111	1.231	1.137	5.5
2,4-Dinitrophenol			0.074	0.097	0.117	0.140	0.121	25.4
4-Nitrophenol			0.182	0.225	0.245	0.276	0.242	14.2
Dibenzofuran		1.747	1.674	1.756	1.709	1.880	1.751	3.8
2,4-Dinitrotoluene		0.234	0.277	0.340	0.371	0.422	0.350	20.3
Diethylphthalate		1.217	1.210	1.319	1.309	1.454	1.315	6.5
4-Chlorophenyl-phenylether		0.687	0.673	0.733	0.747	0.839	0.754	8.3
Fluorene		1.348	1.328	1.428	1.419	1.582	1.443	6.3
4-Nitroaniline		0.192	0.228	0.284	0.311	0.350	0.288	20.1
4,6-Dinitro-2-methylphenol			0.057	0.077	0.094	0.109	0.095	24.9
n-Nitrosodiphenylamine		0.572	0.577	0.620	0.623	0.678	0.626	6.5
2,4,6-Tribromophenol		0.182	0.195	0.230	0.248	0.285	0.243	17.4
4-Bromophenyl-phenylether		0.196	0.194	0.211	0.218	0.242	0.220	9.6
Hexachlorobenzene		0.239	0.233	0.253	0.256	0.283	0.260	7.8
Atrazine		0.166	0.175	0.199	0.211	0.232	0.206	13.0
Pentachlorophenol			0.122	0.145	0.161	0.181	0.162	15.2
Phenanthrene		1.119	1.070	1.119	1.101	1.206	1.132	3.9
Anthracene		1.028	1.017	1.109	1.117	1.233	1.127	7.4
Carbazole		0.939	0.944	1.009	1.010	1.108	1.019	6.2
Di-n-butylphthalate		0.954	0.961	1.091	1.140	1.252	1.116	10.8
Fluoranthene		1.088	1.079	1.182	1.233	1.366	1.230	9.7
Pyrene		1.198	1.177	1.260	1.260	1.388	1.281	6.3
Terphenyl-d14		1.095	1.110	1.225	1.258	1.298	1.137	12.4
Butylbenzylphthalate		0.317	0.334	0.401	0.441	0.492	0.422	17.4
3,3-Dichlorobenzidine			0.351	0.406	0.429	0.498	0.439	12.7
Benzo(a)anthracene		1.204	1.202	1.282	1.282	1.428	1.303	6.6
Chrysene		1.162	1.153	1.200	1.209	1.327	1.229	5.4
Bis(2-ethylhexyl)phthalate		0.499	0.546	0.658	0.705	0.780	0.670	16.3
Di-n-octyl phthalate			0.742	0.931	1.058	1.193	1.050	17.4
Benzo(b)fluoranthene		1.090	1.075	1.177	1.230	1.368	1.230	9.8
Benzo(k)fluoranthene		1.105	1.138	1.247	1.263	1.444	1.276	9.9
Benzo(a)pyrene		0.962	0.985	1.099	1.156	1.314	1.152	12.4
Indeno(1,2,3-cd)pyrene		1.208	1.238	1.374	1.415	1.603	1.422	11.2

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo(a,h)anthracene		1.022	1.035	1.159	1.193	1.352	1.198	11.2
Benzo(g,h,i)perylene		0.992	1.001	1.097	1.121	1.264	1.132	9.7
1,2,4,5-Tetrachlorobenzene		0.590	0.569	0.611	0.622	0.700	0.636	7.9
1,4-Dioxane		0.504	0.466	0.482	0.460	0.501	0.478	4.0
2,3,4,6-Tetrachlorophenol		0.299	0.306	0.355	0.365	0.405	0.360	11.9

All other compounds must meet a minimum RRF of 0.010.