284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: AECO02

Lab Code: ACE SDG No.: Q2936

Instrument ID: BNA_F Calibration Date(s): 08/26/2025 08/26/2025

Calibration Time(s): 09:11 12:32

LAB FILE ID: RRF2.5 = BF143585.D RRF005 = BF143586.D RRF010 = BF143587.D
RRF020 = BF143588.D RRF040 = BF143589.D RRF050 = BF143590.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.245	1.223	1.243	1.152	1.114	1.175	5.2
Benzaldehyde			1.075	1.018	1.209	1.011	1.095	8.0
Phenol-d6		1.584	1.519	1.521	1.422	1.373	1.455	6.0
Phenol		1.726	1.685	1.720	1.584	1.558	1.632	4.8
bis(2-Chloroethyl)ether		1.358	1.306	1.341	1.211	1.157	1.251	6.7
2-Chlorophenol		1.255	1.263	1.286	1.239	1.207	1.243	2.6
2-Methylphenol		1.099	1.076	1.105	1.031	1.017	1.055	3.9
2,2-oxybis(1-Chloropropane)		2.622	2.449	2.481	2.223	2.120	2.309	9.1
Acetophenone		0.513	0.484	0.479	0.437	0.418	0.450	9.3
3+4-Methylphenols			1.389	1.411	1.288	1.227	1.296	6.7
n-Nitroso-di-n-propylamine	0.959	0.979	0.951	0.968	0.876	0.860	0.922	5.4
Nitrobenzene-d5			0.207	0.260	0.293	0.300	0.280	14.6
Hexachloroethane		0.451	0.452	0.484	0.460	0.449	0.458	3.4
Nitrobenzene		0.217	0.250	0.305	0.330	0.329	0.300	16.0
Isophorone		0.694	0.662	0.683	0.645	0.628	0.656	4.0
2-Nitrophenol		0.043	0.056	0.080	0.114	0.130	0.101	40.8
2,4-Dimethylphenol		0.292	0.280	0.297	0.285	0.282	0.285	2.7
bis(2-Chloroethoxy)methane		0.431	0.411	0.424	0.385	0.377	0.397	6.4
2,4-Dichlorophenol		0.257	0.268	0.289	0.284	0.273	0.275	4.2
Naphthalene		1.098	1.029	1.031	0.938	0.900	0.966	9.0
4-Chloroaniline		0.373	0.352	0.360	0.338	0.325	0.341	6.2
Hexachlorobutadiene		0.199	0.189	0.189	0.177	0.171	0.181	6.6
Caprolactam			0.071	0.078	0.078	0.079	0.078	4.9
4-Chloro-3-methylphenol		0.282	0.284	0.300	0.288	0.283	0.287	2.8
2-Methylnaphthalene		0.727	0.685	0.684	0.615	0.586	0.638	9.5
Hexachlorocyclopentadiene			0.201	0.249	0.264	0.273	0.256	11.2
2,4,6-Trichlorophenol		0.285	0.320	0.357	0.374	0.359	0.344	9.0
2-Fluorobiphenyl		1.404	1.290	1.276	1.120	1.041	1.170	13.1
2,4,5-Trichlorophenol		0.317	0.321	0.360	0.353	0.356	0.347	5.7
1,1-Biphenyl		1.588	1.493	1.480	1.358	1.282	1.388	9.7
2-Chloronaphthalene		1.210	1.161	1.143	1.086	1.035	1.096	7.0
2-Nitroaniline		0.118	0.147	0.225	0.287	0.307	0.247	34.7
Dimethylphthalate		1.309	1.266	1.306	1.199	1.180	1.230	5.2
Acenaphthylene		1.772	1.673	1.711	1.557	1.489	1.595	7.7

All other compounds must meet a minimum RRF of 0.010.

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Calibration Time(s): 09:11 12:32

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2,6-Dinitrotoluene		0.065	0.090	0.145	0.189	0.208	0.163	39.7
3-Nitroaniline		0.092	0.127	0.194	0.233	0.246	0.201	33.2
Acenaphthene		1.169	1.103	1.115	1.014	0.969	1.045	8.0
2,4-Dinitrophenol			0.020	0.032	0.050	0.066	0.054	45.1
4-Nitrophenol			0.114	0.161	0.189	0.201	0.182	21.3
Dibenzofuran		1.716	1.633	1.648	1.470	1.425	1.532	8.5
2,4-Dinitrotoluene		0.081	0.120	0.186	0.246	0.276	0.213	40.4
Diethylphthalate		1.219	1.198	1.229	1.110	1.097	1.153	5.5
4-Chlorophenyl-phenylether		0.656	0.616	0.603	0.533	0.515	0.562	11.0
Fluorene		1.368	1.270	1.231	1.089	1.035	1.150	12.1
4-Nitroaniline		0.115	0.143	0.191	0.212	0.229	0.196	25.3
4,6-Dinitro-2-methylphenol			0.020	0.035	0.058	0.071	0.057	42.9
n-Nitrosodiphenylamine		0.694	0.664	0.662	0.632	0.598	0.636	6.0
2,4,6-Tribromophenol		0.130	0.143	0.166	0.162	0.163	0.156	9.4
4-Bromophenyl-phenylether		0.223	0.219	0.228	0.219	0.208	0.216	3.7
Hexachlorobenzene		0.247	0.239	0.242	0.229	0.220	0.231	5.0
Atrazine		0.179	0.184	0.188	0.181	0.182	0.183	2.5
Pentachlorophenol			0.101	0.126	0.139	0.140	0.132	12.5
Phenanthrene		1.223	1.162	1.127	1.040	0.995	1.071	9.4
Anthracene		1.223	1.168	1.151	1.041	0.998	1.079	9.2
Carbazole		1.078	1.019	0.991	0.892	0.855	0.933	10.2
Di-n-butylphthalate		0.961	0.968	1.013	0.923	0.925	0.950	4.2
Fluoranthene		1.176	1.101	1.065	0.897	0.862	0.978	13.6
Pyrene		1.722	1.768	1.810	1.609	1.687	1.674	6.2
Terphenyl-d14		1.199	1.213	1.221	1.044	1.080	1.115	8.4
Butylbenzylphthalate		0.211	0.276	0.386	0.456	0.455	0.398	28.7
3,3-Dichlorobenzidine			0.271	0.339	0.373	0.340	0.337	10.8
Benzo(a)anthracene		1.365	1.276	1.288	1.257	1.216	1.258	4.7
Chrysene		1.239	1.174	1.244	1.125	1.129	1.173	4.4
Bis(2-ethylhexyl)phthalate		0.285	0.397	0.529	0.632	0.580	0.528	25.9
Di-n-octyl phthalate			0.564	0.840	1.167	1.128	1.017	25.6
Benzo(b)fluoranthene		1.354	1.208	1.131	1.045	1.008	1.143	10.3
Benzo(k)fluoranthene		1.169	1.128	1.165	1.061	1.028	1.068	8.3
Benzo(a)pyrene		1.007	0.994	1.034	1.032	0.989	1.010	2.2
Indeno(1,2,3-cd)pyrene		1.127	1.316	1.462	1.429	1.401	1.361	8.4

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo(a,h)anthracene		0.980	1.093	1.191	1.154	1.127	1.114	6.3
Benzo(g,h,i)perylene		0.935	1.071	1.154	1.148	1.148	1.103	7.3
1,2,4,5-Tetrachlorobenzene		0.576	0.542	0.554	0.510	0.498	0.520	7.3
1,4-Dioxane		0.606	0.579	0.592	0.571	0.546	0.575	3.5
2,3,4,6-Tetrachlorophenol		0.190	0.224	0.273	0.271	0.277	0.257	13.9

All other compounds must meet a minimum RRF of 0.010.