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SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: HDRI08

Lab Code: ACE

SDG No.: Q3649

Instrument ID: BNA_G

Calibration Date(s): 11/12/2025 11/12/2025

Calibration Time(s): 11:17 16:04

LAB FILE ID:	RRF2.5 = BG064745.D	RRF005 = BG064746.D	RRF010 = BG064747.D	RRF020 = BG064748.D	RRF040 = BG064749.D	RRF050 = BG064750.D		
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.084	1.128	1.165	1.170	1.181	1.145	2.9
Benzaldehyde			1.027	0.980	1.029	0.949	0.997	3.0
Phenol-d6		1.388	1.466	1.539	1.580	1.616	1.523	5.0
Phenol		1.501	1.584	1.666	1.711	1.774	1.657	5.4
bis(2-Chloroethyl)ether		1.093	1.141	1.224	1.234	1.224	1.179	4.4
2-Chlorophenol		1.208	1.221	1.268	1.303	1.318	1.258	3.4
2-Methylphenol		1.072	1.149	1.196	1.218	1.234	1.173	4.6
2,2-oxybis(1-Chloropropane)		2.713	2.796	2.959	2.834	2.861	2.792	3.6
Acetophenone		0.465	0.536	0.581	0.561	0.555	0.545	7.0
3+4-Methylphenols			1.480	1.628	1.649	1.670	1.607	4.1
n-Nitroso-di-n-propylamine	0.924	0.875	1.015	1.116	1.097	1.138	1.030	8.9
Nitrobenzene-d5		0.371	0.378	0.410	0.414	0.416	0.405	5.5
Hexachloroethane		0.584	0.549	0.572	0.563	0.550	0.558	2.8
Nitrobenzene		0.353	0.398	0.431	0.415	0.417	0.409	6.6
Isophorone		0.723	0.760	0.796	0.767	0.785	0.770	3.1
2-Nitrophenol		0.133	0.175	0.189	0.193	0.194	0.184	13.1
2,4-Dimethylphenol		0.309	0.301	0.336	0.331	0.334	0.327	4.6
bis(2-Chloroethoxy)methane		0.383	0.419	0.444	0.425	0.432	0.423	4.6
2,4-Dichlorophenol		0.283	0.331	0.367	0.364	0.371	0.351	9.4
Naphthalene		1.076	1.163	1.170	1.141	1.123	1.134	2.8
4-Chloroaniline		0.357	0.452	0.477	0.471	0.472	0.454	9.6
Hexachlorobutadiene		0.365	0.353	0.370	0.366	0.358	0.363	2.1
Caprolactam			0.090	0.104	0.103	0.114	0.105	8.0
4-Chloro-3-methylphenol		0.348	0.388	0.399	0.390	0.402	0.390	5.1
2-Methylnaphthalene		0.820	0.842	0.902	0.844	0.850	0.848	3.0
Hexachlorocyclopentadiene			0.478	0.547	0.560	0.557	0.558	8.3
2,4,6-Trichlorophenol		0.386	0.432	0.472	0.465	0.474	0.457	7.9
2-Fluorobiphenyl		1.403	1.445	1.509	1.420	1.400	1.433	2.6
2,4,5-Trichlorophenol		0.467	0.460	0.546	0.521	0.520	0.512	6.8
1,1-Biphenyl		1.416	1.417	1.498	1.428	1.405	1.436	2.2
2-Chloronaphthalene		1.124	1.112	1.167	1.120	1.116	1.132	1.7
2-Nitroaniline		0.291	0.345	0.373	0.371	0.383	0.364	9.9
Dimethylphthalate		1.535	1.569	1.654	1.549	1.580	1.580	2.4
Acenaphthylene		1.839	1.928	1.996	1.930	1.932	1.933	2.5

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		0.265	0.281	0.313	0.305	0.317	0.304	7.4
3-Nitroaniline		0.247	0.277	0.301	0.306	0.320	0.300	9.6
Acenaphthene		1.072	1.104	1.169	1.166	1.177	1.159	4.6
2,4-Dinitrophenol			0.060	0.114	0.169	0.189	0.158	38.0
4-Nitrophenol			0.181	0.224	0.241	0.257	0.238	13.2
Dibenzofuran		1.897	1.991	1.994	1.867	1.892	1.916	2.7
2,4-Dinitrotoluene		0.376	0.426	0.477	0.462	0.472	0.456	9.1
Diethylphthalate		1.443	1.521	1.585	1.492	1.532	1.513	2.8
4-Chlorophenyl-phenylether		0.892	0.927	0.940	0.880	0.882	0.902	2.5
Fluorene		1.481	1.569	1.595	1.471	1.462	1.503	3.6
4-Nitroaniline		0.245	0.288	0.318	0.320	0.335	0.311	10.7
4,6-Dinitro-2-methylphenol			0.073	0.099	0.117	0.121	0.111	19.4
n-Nitrosodiphenylamine		0.483	0.531	0.544	0.538	0.519	0.524	3.8
2,4,6-Tribromophenol		0.346	0.384	0.410	0.386	0.398	0.390	5.5
4-Bromophenyl-phenylether		0.241	0.263	0.269	0.269	0.259	0.263	3.9
Hexachlorobenzene		0.312	0.312	0.326	0.320	0.318	0.318	1.7
Atrazine		0.245	0.251	0.257	0.253	0.254	0.253	1.5
Pentachlorophenol			0.088	0.138	0.160	0.177	0.157	24.9
Phenanthrene		1.075	1.118	1.123	1.099	1.081	1.094	1.8
Anthracene		1.098	1.122	1.152	1.113	1.099	1.116	1.6
Carbazole		0.926	0.987	0.982	0.971	0.944	0.959	2.3
Di-n-butylphthalate		0.998	1.107	1.105	1.077	1.076	1.070	3.4
Fluoranthene		1.508	1.558	1.531	1.494	1.461	1.496	2.6
Pyrene		1.076	1.089	1.145	1.111	1.164	1.121	2.8
Terphenyl-d14		1.018	1.028	1.060	1.012	1.040	1.017	3.0
Butylbenzylphthalate		0.377	0.391	0.402	0.391	0.404	0.394	2.4
3,3-Dichlorobenzidine			0.501	0.518	0.517	0.507	0.501	3.3
Benzo(a)anthracene		1.338	1.371	1.395	1.379	1.357	1.360	1.7
Chrysene		1.266	1.292	1.301	1.309	1.267	1.282	1.4
Bis(2-ethylhexyl)phthalate		0.582	0.581	0.598	0.583	0.571	0.576	2.5
Di-n-octyl phthalate			0.993	1.026	1.038	0.983	0.996	3.0
Benzo(b)fluoranthene		1.190	1.250	1.299	1.291	1.279	1.273	3.2
Benzo(k)fluoranthene		1.245	1.296	1.321	1.249	1.279	1.279	2.3
Benzo(a)pyrene		1.131	1.176	1.197	1.191	1.182	1.181	2.0
Indeno(1,2,3-cd)pyrene		1.262	1.324	1.388	1.399	1.404	1.374	4.4

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		1.026	1.092	1.128	1.151	1.155	1.126	4.6
Benzo (g,h,i) perylene		1.000	1.044	1.091	1.105	1.108	1.083	4.2
1,2,4,5-Tetrachlorobenzene		0.756	0.746	0.811	0.782	0.759	0.778	3.2
1,4-Dioxane		0.441	0.455	0.445	0.468	0.452	0.443	3.9
2,3,4,6-Tetrachlorophenol		0.418	0.480	0.521	0.501	0.536	0.506	8.9

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