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: CHEM02

Lab Code: ACE SDG No.: Q2939

Instrument ID: BNA_P Calibration Date(s): 09/08/2025 09/08/2025

Calibration Time(s): 14:41 18:07

LAB FILE ID: RRFAL1 = BP025684.D RRFAL2 = BP025685.D RRFAL3 = BP025686.D
RRFAL4 = BP025687.D RRFAL5 = BP025688.D RRFAL6 = BP025689.D

COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane	0.487	0.522	0.525	0.525	0.524		0.517	3.2
Benzaldehyde		0.981	0.979	0.814	0.578	0.369	0.744	35.8
Hexachloroethane	0.548	0.578	0.592	0.590	0.572		0.576	3.0
Nitrobenzene	0.321	0.368	0.382	0.400	0.391		0.372	8.4
Isophorone	0.704	0.760	0.792	0.792	0.764		0.762	4.7
2-Nitrophenol	0.155	0.177	0.187	0.197	0.193		0.182	9.2
2,4-Dimethylphenol	0.340	0.374	0.372	0.397	0.382		0.373	5.5
Bis(2-Chloroethoxy)methane	0.384	0.442	0.457	0.461	0.445		0.438	7.0
2,4-Dichlorophenol	0.263	0.302	0.317	0.329	0.321		0.306	8.6
Naphthalene	1.021	1.056	1.071	1.066	1.015		1.046	2.5
4-Chloroaniline		0.423	0.440	0.458	0.454	0.425	0.440	3.7
Hexachlorobutadiene	0.225	0.228	0.234	0.233	0.220		0.228	2.5
Phenol		1.498	1.675	1.722	1.773	1.629	1.659	6.3
Caprolactam		0.122	0.127	0.129	0.129	0.121	0.126	2.8
4-Chloro-3-methylphenol	0.321	0.345	0.381	0.378	0.377		0.360	7.3
2-Methylnaphthalene	0.712	0.751	0.776	0.760	0.735		0.747	3.2
Hexachlorocyclopentadiene		0.222	0.272	0.321	0.341	0.355	0.302	18.2
2,4,6-Trichlorophenol	0.338	0.378	0.403	0.420	0.406		0.389	8.3
2,4,5-Trichlorophenol	0.388	0.403	0.433	0.456	0.452		0.426	7.0
1,1-Biphenyl	1.332	1.412	1.450	1.459	1.357		1.402	4.0
2-Chloronaphthalene	1.011	1.114	1.137	1.157	1.099		1.104	5.1
2-Nitroaniline	0.292	0.333	0.356	0.386	0.384		0.350	11.1
Bis(2-Chloroethyl)ether		1.249	1.355	1.358	1.347	1.238	1.309	4.6
Dimethylphthalate	1.478	1.508	1.518	1.501	1.411		1.483	2.9
2,6-Dinitrotoluene	0.263	0.291	0.307	0.322	0.321		0.300	8.2
Acenaphthylene	1.781	1.863	1.902	1.931	1.817		1.859	3.3
3-Nitroaniline		0.253	0.293	0.292	0.264	0.234	0.267	9.5
Acenaphthene	1.157	1.220	1.209	1.224	1.162		1.194	2.7
2,4-Dinitrophenol		0.130	0.167	0.193	0.216	0.217	0.185	20.0
4-Nitrophenol		0.145	0.200	0.224	0.234	0.217	0.204	17.3
Dibenzofuran	1.672	1.756	1.723	1.740	1.648		1.708	2.7
2,4-Dinitrotoluene	0.385	0.443	0.461	0.485	0.477		0.450	8.9
Diethylphthalate	1.518	1.567	1.571	1.506	1.463		1.525	3.0
2-Chlorophenol	1.102	1.288	1.330	1.344	1.359		1.285	8.2

All other compounds must meet a minimum RRF of 0.010.

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COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Fluorene	1.389	1.447	1.428	1.401	1.310		1.395	3.8
4-Chlorophenyl-phenylether	0.723	0.741	0.723	0.709	0.674		0.714	3.5
4-Nitroaniline		0.281	0.296	0.290	0.248	0.202	0.263	14.9
4,6-Dinitro-2-methylphenol		0.125	0.136	0.147	0.145	0.137	0.138	6.3
N-Nitrosodiphenylamine	0.534	0.595	0.588	0.612	0.563		0.578	5.3
1,2,4,5-Tetrachlorobenzene	0.547	0.586	0.607	0.635	0.600		0.595	5.4
4-Bromophenyl-phenylether	0.197	0.219	0.215	0.223	0.212		0.213	4.7
Hexachlorobenzene	0.231	0.251	0.251	0.247	0.241		0.244	3.4
Atrazine		0.239	0.251	0.250	0.230	0.216	0.237	6.2
Pentachlorophenol		0.140	0.154	0.164	0.167	0.157	0.156	6.8
2-Methylphenol		1.185	1.295	1.313	1.343	1.225	1.272	5.1
Phenanthrene	1.064	1.150	1.114	1.119	1.040		1.097	4.1
Anthracene	1.064	1.149	1.140	1.151	1.060		1.113	4.2
Carbazole		1.026	1.055	1.055	0.996	0.867	1.000	7.8
Di-n-butylphthalate	1.237	1.322	1.351	1.296	1.221		1.285	4.3
Fluoranthene	1.192	1.269	1.271	1.265	1.234		1.246	2.7
Pyrene	1.281	1.323	1.327	1.327	1.254		1.303	2.6
Butylbenzylphthalate	0.567	0.582	0.596	0.594	0.563		0.580	2.6
3,3-Dichlorobenzidine		0.452	0.454	0.461	0.417	0.360	0.429	9.8
2,2-oxybis(1-Chloropropane)		2.063	2.173	2.119	2.101	1.925	2.076	4.5
Benzo(a)anthracene	1.258	1.347	1.358	1.370	1.328		1.332	3.3
Chrysene	1.195	1.284	1.271	1.298	1.221		1.254	3.5
Bis(2-ethylhexyl)phthalate	0.839	0.891	0.895	0.838	0.801		0.853	4.7
Di-n-octyl phthalate		1.409	1.419	1.340	1.320	1.261	1.350	4.8
Benzo(b)fluoranthene	1.082	1.187	1.191	1.225	1.169		1.171	4.6
Benzo(k)fluoranthene	1.162	1.193	1.208	1.195	1.179		1.188	1.5
Benzo(a)pyrene	1.077	1.132	1.119	1.163	1.134		1.125	2.8
Indeno(1,2,3-cd)pyrene	1.303	1.415	1.409	1.464	1.446		1.407	4.4
Dibenzo(a,h)anthracene	1.010	1.153	1.159	1.207	1.172		1.140	6.6
Benzo(g,h,i)perylene	1.068	1.133	1.130	1.200	1.175		1.141	4.4
Acetophenone		2.017	2.153	2.128	2.175	1.874	2.069	6.0
2,3,4,6-Tetrachlorophenol	0.343	0.370	0.388	0.387	0.382		0.374	5.0
1,4-Dioxane-d8	0.476	0.496	0.488	0.485	0.498		0.489	1.8
Pyridine-d5		1.338	1.381	1.532	1.483	1.350	1.417	6.1
Phenol-d5		1.465	1.591	1.678	1.732	1.612	1.616	6.3

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COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Bis-(2-Chloroethyl)ether-d8		0.949	1.015	1.021	1.018	0.936	0.988	4.2
2-Chlorophenol-d4	1.121	1.207	1.313	1.319	1.332		1.258	7.3
4-Methylphenol-d8		1.225	1.363	1.391	1.423	1.287	1.338	6.0
Nitrobenzene-d5	0.133	0.150	0.157	0.168	0.161		0.154	8.8
2-Nitrophenol-d4	0.151	0.164	0.180	0.190	0.189		0.175	9.7
2,4-Dichlorophenol-d3	0.267	0.311	0.329	0.339	0.329		0.315	9.2
4-Chloroaniline-d4		0.409	0.450	0.457	0.459	0.432	0.442	4.7
4-Methylphenol		1.264	1.416	1.429	1.471	1.314	1.379	6.3
Dimethylphthalate-d6	1.477	1.552	1.542	1.537	1.451		1.512	3.0
Acenaphthylene-d8	1.559	1.657	1.701	1.712	1.672		1.660	3.7
4-Nitrophenol-d4		0.186	0.248	0.274	0.283	0.263	0.251	15.3
Fluorene-d10	1.218	1.285	1.297	1.278	1.218		1.259	3.0
4,6-Dinitro-2-methylphenol-		0.122	0.134	0.143	0.143	0.139	0.136	6.6
Anthracene-d10	0.927	0.998	0.978	0.982	0.928		0.963	3.4
Pyrene-d10	1.053	1.124	1.119	1.105	1.071		1.095	2.8
Benzo(a)pyrene-d12	0.975	1.017	1.040	1.061	1.040		1.027	3.2
N-Nitroso-di-n-propylamine	0.980	1.082	1.165	1.130	1.138		1.099	6.7

All other compounds must meet a minimum RRF of 0.010.