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: PARS02

Lab Code: ACE SDG No.: Q2592

Instrument ID: BNA_F Calibration Date(s): 07/15/2025 07/15/2025

Calibration Time(s): 13:04 16:35

LAB FILE ID: RRF2.5 = BF143093.D RRF005 = BF143094.D RRF010 = BF143095.D
RRF020 = BF143096.D RRF040 = BF143097.D RRF050 = BF143098.D

COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.334	1.272	1.315	1.255	1.305	1.266	5.0
Benzaldehyde			1.196	1.149	1.451	1.452	1.212	18.2
Phenol-d6		1.685	1.616	1.640	1.565	1.643	1.591	5.1
Phenol		1.766	1.742	1.782	1.709	1.780	1.723	4.1
bis(2-Chloroethyl)ether		1.425	1.363	1.366	1.309	1.371	1.334	5.3
2-Chlorophenol		1.239	1.208	1.321	1.273	1.363	1.272	4.5
2-Methylphenol		1.132	1.081	1.124	1.083	1.150	1.098	3.6
2,2-oxybis(1-Chloropropane)		2.713	2.532	2.528	2.405	2.517	2.458	7.0
Acetophenone		0.538	0.516	0.500	0.469	0.482	0.482	8.3
3+4-Methylphenols			1.399	1.419	1.356	1.421	1.346	6.7
n-Nitroso-di-n-propylamine	0.956	1.029	0.988	1.002	0.964	1.017	0.975	4.4
Nitrobenzene-d5		0.283	0.319	0.363	0.372	0.399	0.357	11.6
Hexachloroethane		0.465	0.440	0.486	0.472	0.500	0.471	4.2
Nitrobenzene		0.282	0.317	0.357	0.356	0.385	0.344	9.9
Isophorone		0.705	0.688	0.697	0.678	0.718	0.689	3.1
2-Nitrophenol		0.063	0.075	0.106	0.120	0.141	0.114	30.0
2,4-Dimethylphenol		0.325	0.322	0.326	0.320	0.332	0.320	3.4
bis(2-Chloroethoxy)methane		0.444	0.434	0.435	0.409	0.424	0.418	5.6
2,4-Dichlorophenol		0.237	0.254	0.267	0.267	0.280	0.262	5.4
Naphthalene		1.099	1.048	1.037	0.966	0.987	0.993	7.5
4-Chloroaniline		0.420	0.420	0.414	0.398	0.409	0.399	6.1
Hexachlorobutadiene		0.185	0.176	0.183	0.177	0.182	0.178	4.1
Caprolactam			0.073	0.078	0.083	0.087	0.082	6.4
4-Chloro-3-methylphenol		0.285	0.290	0.296	0.293	0.307	0.291	3.3
2-Methylnaphthalene		0.644	0.626	0.615	0.580	0.597	0.592	6.9
Hexachlorocyclopentadiene			0.254	0.306	0.323	0.356	0.323	12.2
2,4,6-Trichlorophenol		0.300	0.312	0.377	0.376	0.400	0.362	10.9
2-Fluorobiphenyl		1.777	1.645	1.602	1.456	1.460	1.505	12.2
2,4,5-Trichlorophenol		0.336	0.367	0.390	0.393	0.418	0.380	6.6
1,1-Biphenyl		1.750	1.687	1.671	1.567	1.610	1.595	7.8
2-Chloronaphthalene		1.271	1.203	1.206	1.159	1.195	1.172	6.1
2-Nitroaniline		0.180	0.224	0.296	0.328	0.372	0.303	24.5
Dimethylphthalate		1.310	1.259	1.292	1.257	1.302	1.258	4.0
Acenaphthylene		2.060	2.011	2.034	1.959	1.989	1.952	5.6

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		0.133	0.176	0.222	0.234	0.262	0.219	22.1
3-Nitroaniline		0.180	0.227	0.283	0.288	0.318	0.272	18.6
Acenaphthene		1.273	1.204	1.173	1.127	1.168	1.152	6.8
2,4-Dinitrophenol			0.038	0.056	0.069	0.086	0.073	31.2
4-Nitrophenol			0.164	0.201	0.224	0.239	0.216	13.4
Dibenzofuran		1.895	1.795	1.785	1.697	1.729	1.717	7.4
2,4-Dinitrotoluene		0.147	0.197	0.253	0.295	0.326	0.265	26.3
Diethylphthalate		1.221	1.217	1.257	1.225	1.260	1.214	3.7
4-Chlorophenyl-phenylether		0.666	0.642	0.631	0.614	0.625	0.617	5.9
Fluorene		1.478	1.387	1.328	1.246	1.284	1.288	9.7
4-Nitroaniline		0.169	0.208	0.237	0.249	0.270	0.236	15.3
4,6-Dinitro-2-methylphenol			0.035	0.053	0.064	0.079	0.067	30.5
n-Nitrosodiphenylamine		0.735	0.709	0.736	0.682	0.717	0.703	4.3
2,4,6-Tribromophenol		0.136	0.157	0.181	0.188	0.204	0.178	13.2
4-Bromophenyl-phenylether		0.231	0.219	0.234	0.222	0.239	0.227	3.4
Hexachlorobenzene		0.249	0.237	0.247	0.235	0.250	0.241	3.1
Atrazine		0.158	0.171	0.184	0.181	0.195	0.180	6.7
Pentachlorophenol			0.098	0.125	0.132	0.149	0.132	14.5
Phenanthrene		1.190	1.136	1.111	1.042	1.089	1.079	6.9
Anthracene		1.158	1.126	1.126	1.057	1.106	1.085	5.6
Carbazole		1.038	1.026	1.008	0.938	0.998	0.972	6.3
Di-n-butylphthalate		0.746	0.846	0.913	0.921	0.983	0.893	8.6
Fluoranthene		1.044	1.053	1.009	0.960	0.998	0.981	6.6
Pyrene		2.018	1.956	1.955	1.842	1.918	1.856	8.3
Terphenyl-d14		1.563	1.471	1.437	1.343	1.385	1.368	10.5
Butylbenzylphthalate		0.179	0.233	0.310	0.343	0.385	0.318	26.2
3,3-Dichlorobenzidine			0.314	0.406	0.385	0.428	0.387	10.3
Benzo(a)anthracene		1.296	1.304	1.406	1.347	1.403	1.333	4.3
Chrysene		1.286	1.234	1.211	1.201	1.270	1.227	3.4
Bis(2-ethylhexyl)phthalate		0.273	0.343	0.479	0.515	0.578	0.480	26.2
Di-n-octyl phthalate			0.474	0.811	0.922	1.073	0.927	27.8
Benzo(b)fluoranthene		1.063	1.191	1.171	1.082	1.297	1.154	7.2
Benzo(k)fluoranthene		1.175	1.066	1.111	1.148	1.088	1.101	4.2
Benzo(a)pyrene		0.989	1.019	1.108	1.124	1.196	1.091	6.4
Indeno(1,2,3-cd)pyrene		1.345	1.411	1.526	1.521	1.620	1.488	6.0

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo(a,h)anthracene		1.114	1.162	1.266	1.240	1.330	1.216	5.9
Benzo(g,h,i)perylene		1.148	1.187	1.263	1.258	1.349	1.240	5.2
1,2,4,5-Tetrachlorobenzene		0.616	0.600	0.602	0.578	0.601	0.583	5.6
1,4-Dioxane		0.637	0.635	0.640	0.627	0.661	0.630	3.6
2,3,4,6-Tetrachlorophenol		0.253	0.274	0.302	0.312	0.339	0.302	9.7

All other compounds must meet a minimum RRF of 0.010.