

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG No.: Q2664

Instrument ID: BNA_P

Calibration Date(s): 07/21/2025 07/21/2025

Calibration Time(s): 14:25 19:14

LAB FILE ID:		RRF2.5 = BP025196.D			RRF005 = BP025197.D		RRF010 = BP025198.D	
		RRF020 = BP025199.D			RRF040 = BP025200.D		RRF050 = BP025201.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.225	1.157	1.200	1.163	1.241	1.184	3.6
Benzaldehyde			0.925	0.954	1.109	1.237	0.994	16.9
Phenol-d6		1.475	1.426	1.477	1.468	1.544	1.466	3.1
bis(2-Chloroethyl)ether		1.181	1.125	1.157	1.164	1.243	1.166	3.5
2,2-oxybis(1-Chloropropane)		1.518	1.433	1.497	1.487	1.595	1.491	3.8
Acetophenone		0.479	0.468	0.482	0.450	0.490	0.465	4.7
n-Nitroso-di-n-propylamine	0.864	0.909	0.837	0.899	0.888	0.949	0.882	4.4
Nitrobenzene-d5		0.368	0.355	0.369	0.352	0.380	0.360	4.2
Hexachloroethane		0.529	0.510	0.517	0.520	0.557	0.524	3.2
Nitrobenzene		0.322	0.317	0.326	0.314	0.338	0.321	3.3
Isophorone		0.649	0.613	0.647	0.622	0.663	0.633	3.5
bis(2-Chloroethoxy)methane		0.408	0.391	0.406	0.383	0.417	0.396	4.3
Naphthalene		1.078	1.018	1.046	0.996	1.070	1.023	4.6
4-Chloroaniline		0.456	0.437	0.456	0.438	0.475	0.450	3.8
Hexachlorobutadiene		0.213	0.205	0.211	0.203	0.217	0.208	3.3
Caprolactam			0.099	0.107	0.101	0.112	0.105	4.6
2-Methylnaphthalene		0.687	0.659	0.681	0.646	0.696	0.665	4.0
Hexachlorocyclopentadiene			0.288	0.329	0.354	0.403	0.358	12.2
2-Fluorobiphenyl		1.616	1.525	1.525	1.401	1.486	1.419	12.2
1,1-Biphenyl		1.523	1.474	1.469	1.426	1.502	1.450	4.3
2-Chloronaphthalene		1.176	1.144	1.126	1.104	1.178	1.132	3.4
2-Nitroaniline		0.267	0.274	0.290	0.287	0.319	0.289	5.7
Dimethylphthalate		1.515	1.438	1.457	1.378	1.508	1.430	5.0
Acenaphthylene		1.890	1.843	1.893	1.809	1.958	1.831	5.9
2,6-Dinitrotoluene		0.292	0.295	0.312	0.310	0.335	0.311	4.8
3-Nitroaniline		0.328	0.337	0.352	0.342	0.384	0.350	5.2
Acenaphthene		1.108	1.069	1.077	1.030	1.127	1.059	5.1
Dibenzofuran		1.831	1.721	1.749	1.676	1.784	1.710	5.4
2,4-Dinitrotoluene		0.395	0.402	0.439	0.434	0.482	0.435	6.9
Diethylphthalate		1.490	1.408	1.428	1.379	1.504	1.410	5.3
4-Chlorophenyl-phenylether		0.742	0.707	0.697	0.673	0.704	0.686	5.7
Fluorene		1.467	1.383	1.399	1.327	1.413	1.358	6.1
4-Nitroaniline		0.335	0.339	0.367	0.346	0.389	0.356	5.3
n-Nitrosodiphenylamine		0.637	0.617	0.625	0.601	0.634	0.607	5.6

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

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2,4,6-Tribromophenol		0.297	0.288	0.298	0.288	0.316	0.295	3.8
4-Bromophenyl-phenylether		0.234	0.231	0.233	0.233	0.248	0.233	3.5
Hexachlorobenzene		0.282	0.275	0.281	0.280	0.289	0.277	3.7
Atrazine		0.222	0.223	0.230	0.221	0.239	0.225	3.8
Phenanthrene		1.158	1.116	1.115	1.070	1.112	1.079	6.9
Anthracene		1.140	1.130	1.142	1.083	1.161	1.087	8.8
Carbazole		1.095	1.071	1.086	1.029	1.101	1.037	7.7
Di-n-butylphthalate		1.264	1.248	1.288	1.211	1.300	1.197	11.0
Fluoranthene		1.350	1.343	1.337	1.252	1.306	1.270	7.2
Pyrene		1.316	1.229	1.273	1.258	1.279	1.233	6.1
Terphenyl-d14		1.209	1.162	1.127	0.890	0.967	1.013	18.4
Butylbenzylphthalate		0.558	0.536	0.560	0.564	0.587	0.558	3.2
3,3-Dichlorobenzidine			0.524	0.550	0.509	0.550	0.524	4.9
Benzo (a) anthracene		1.339	1.289	1.311	1.244	1.322	1.263	6.1
Chrysene		1.254	1.202	1.215	1.159	1.236	1.179	6.1
Bis (2-ethylhexyl) phthalate		0.828	0.801	0.817	0.802	0.840	0.798	5.0
Di-n-octyl phthalate			1.368	1.457	1.384	1.492	1.378	7.0
Benzo (b) fluoranthene		1.200	1.164	1.149	1.132	1.187	1.145	4.1
Benzo (k) fluoranthene		1.191	1.117	1.148	1.134	1.201	1.130	5.8
Benzo (a) pyrene		1.144	1.099	1.131	1.103	1.183	1.117	3.7
Indeno (1,2,3-cd) pyrene		1.498	1.428	1.461	1.426	1.540	1.462	3.0
Dibenzo (a,h) anthracene		1.216	1.181	1.205	1.175	1.251	1.192	3.2
Benzo (g,h,i) perylene		1.211	1.141	1.178	1.150	1.226	1.172	3.0
1,2,4,5-Tetrachlorobenzene		0.611	0.588	0.601	0.590	0.639	0.599	3.5
1,4-Dioxane		0.465	0.448	0.444	0.428	0.465	0.444	4.0

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