

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: ALLI03

Lab Code: ACE

SDG No.: Q3483

Instrument ID: BNA_P

Calibration Date(s): 11/18/2025 11/18/2025

Calibration Time(s): 14:31 21:22

LAB FILE ID:		RRF2.5 = BP026143.D			RRF005 = BP026144.D		RRF010 = BP026145.D	
		RRF020 = BP026146.D			RRF040 = BP026147.D		RRF050 = BP026148.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine			0.535	0.560	0.540	0.552	0.546	1.8
Pyridine		1.401	1.459	1.510	1.445	1.485	1.461	2.3
2-Fluorophenol		1.193	1.249	1.277	1.245	1.255	1.246	2.1
Benzaldehyde			0.963	0.899	0.922	0.719	0.831	14.0
Aniline		1.953	2.050	2.154	2.122	2.138	2.094	3.4
Phenol-d6		1.465	1.564	1.623	1.617	1.632	1.586	3.6
Phenol		1.570	1.658	1.757	1.746	1.759	1.709	4.1
bis(2-Chloroethyl)ether		1.252	1.334	1.368	1.361	1.363	1.338	3.0
2-Chlorophenol		1.318	1.398	1.438	1.431	1.452	1.418	3.4
1,2-Dichlorobenzene		1.453	1.482	1.521	1.479	1.480	1.479	1.5
1,3-Dichlorobenzene		1.511	1.526	1.570	1.525	1.528	1.528	1.3
1,4-Dichlorobenzene		1.495	1.547	1.589	1.540	1.546	1.540	1.8
Benzyl Alcohol			1.074	1.181	1.187	1.194	1.162	3.8
2-Methylphenol		1.067	1.126	1.191	1.195	1.202	1.163	4.3
2,2-oxybis(1-Chloropropane)		1.769	1.841	1.961	1.914	1.924	1.879	3.4
Acetophenone		0.497	0.521	0.530	0.507	0.504	0.508	2.6
3+4-Methylphenols			1.530	1.656	1.624	1.648	1.612	2.8
n-Nitroso-di-n-propylamine	0.937	0.899	0.960	1.063	1.024	1.039	0.985	5.5
Nitrobenzene-d5		0.335	0.357	0.362	0.355	0.351	0.352	2.4
Hexachloroethane		0.527	0.559	0.569	0.565	0.565	0.560	3.0
Nitrobenzene		0.339	0.356	0.368	0.359	0.357	0.356	2.5
Isophorone		0.655	0.693	0.736	0.710	0.710	0.698	3.6
2-Nitrophenol		0.152	0.164	0.182	0.189	0.189	0.180	8.9
2,4-Dimethylphenol		0.305	0.327	0.337	0.328	0.328	0.325	3.1
bis(2-Chloroethoxy)methane		0.425	0.439	0.454	0.439	0.442	0.437	2.3
2,4-Dichlorophenol		0.298	0.322	0.335	0.331	0.330	0.325	3.8
1,2,4-Trichlorobenzene		0.331	0.337	0.337	0.330	0.325	0.331	1.4
Benzoic acid			0.209	0.268	0.276	0.276	0.274	14.0
Naphthalene		1.080	1.114	1.115	1.073	1.073	1.081	2.3
4-Chloroaniline		0.429	0.461	0.479	0.472	0.463	0.460	3.5
Hexachlorobutadiene		0.213	0.218	0.219	0.215	0.211	0.215	1.6
Caprolactam			0.113	0.123	0.117	0.118	0.116	3.4
4-Chloro-3-methylphenol		0.314	0.342	0.366	0.354	0.356	0.345	4.8
2-Methylnaphthalene		0.732	0.791	0.804	0.773	0.773	0.766	3.5

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Hexachlorocyclopentadiene			0.347	0.382	0.396	0.396	0.396	7.8
2,4,6-Trichlorophenol		0.380	0.404	0.431	0.420	0.420	0.415	4.2
2-Fluorobiphenyl		1.430	1.442	1.453	1.337	1.317	1.365	5.7
2,4,5-Trichlorophenol		0.428	0.454	0.482	0.467	0.469	0.463	3.7
1,1-Biphenyl		1.499	1.540	1.580	1.489	1.469	1.506	2.8
2-Chloronaphthalene		1.167	1.215	1.217	1.169	1.164	1.184	2.0
2-Nitroaniline		0.289	0.310	0.345	0.338	0.336	0.329	6.6
Dimethylphthalate		1.470	1.517	1.573	1.494	1.470	1.494	2.7
Acenaphthylene		1.890	1.987	2.051	1.947	1.943	1.953	2.7
2,6-Dinitrotoluene		0.235	0.267	0.310	0.315	0.312	0.296	10.9
3-Nitroaniline		0.286	0.330	0.368	0.362	0.364	0.349	8.7
Acenaphthene		1.139	1.182	1.180	1.138	1.141	1.145	2.9
2,4-Dinitrophenol			0.124	0.174	0.186	0.187	0.179	16.3
4-Nitrophenol			0.290	0.331	0.316	0.314	0.315	4.5
Dibenzofuran		1.779	1.832	1.880	1.765	1.763	1.773	4.0
2,4-Dinitrotoluene		0.362	0.407	0.469	0.467	0.464	0.442	9.4
Diethylphthalate		1.493	1.507	1.592	1.522	1.493	1.505	2.9
4-Chlorophenyl-phenylether		0.718	0.717	0.741	0.693	0.691	0.697	4.5
Fluorene		1.447	1.490	1.500	1.380	1.374	1.401	5.9
4-Nitroaniline		0.313	0.359	0.394	0.365	0.368	0.362	6.9
4,6-Dinitro-2-methylphenol			0.099	0.123	0.134	0.132	0.127	11.8
n-Nitrosodiphenylamine		0.598	0.640	0.641	0.624	0.610	0.619	2.7
Azobenzene		1.200	1.276	1.346	1.290	1.279	1.269	3.6
2,4,6-Tribromophenol		0.241	0.253	0.273	0.264	0.262	0.259	3.9
4-Bromophenyl-phenylether		0.208	0.219	0.223	0.229	0.221	0.221	3.3
Hexachlorobenzene		0.243	0.260	0.260	0.265	0.255	0.257	2.9
Atrazine		0.217	0.232	0.247	0.238	0.233	0.233	3.9
Pentachlorophenol			0.170	0.179	0.183	0.179	0.180	3.3
Phenanthrene		1.128	1.179	1.179	1.122	1.102	1.127	3.4
Anthracene		1.122	1.194	1.198	1.171	1.122	1.149	3.3
Carbazole		1.083	1.178	1.151	1.105	1.045	1.091	5.1
Di-n-butylphthalate		1.219	1.290	1.372	1.358	1.304	1.294	4.6
Fluoranthene		1.383	1.464	1.452	1.369	1.308	1.369	5.1
Benzidine			0.727	0.733	0.616	0.631	0.635	13.4
Pyrene		1.266	1.318	1.375	1.331	1.309	1.311	2.7

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Terphenyl-d14		1.024	1.037	1.061	0.990	0.971	0.981	7.1
Butylbenzylphthalate		0.546	0.552	0.612	0.603	0.588	0.578	4.6
3,3-Dichlorobenzidine			0.513	0.526	0.500	0.492	0.500	3.6
Benzo (a) anthracene		1.373	1.401	1.437	1.376	1.349	1.374	2.6
Chrysene		1.298	1.336	1.341	1.284	1.266	1.295	2.5
Bis (2-ethylhexyl) phthalate		0.842	0.825	0.918	0.933	0.876	0.874	5.5
Di-n-octyl phthalate			1.414	1.572	1.581	1.553	1.529	4.6
Benzo (b) fluoranthene		1.190	1.226	1.271	1.237	1.222	1.218	2.6
Benzo (k) fluoranthene		1.206	1.228	1.275	1.213	1.213	1.217	2.4
Benzo (a) pyrene		1.121	1.153	1.198	1.168	1.147	1.154	2.1
Indeno (1,2,3-cd) pyrene		1.442	1.484	1.538	1.511	1.483	1.500	2.2
Dibenzo (a,h) anthracene		1.177	1.220	1.274	1.237	1.209	1.228	2.5
Benzo (g,h,i) perylene		1.175	1.230	1.253	1.223	1.185	1.220	2.4
1,2,4,5-Tetrachlorobenzene		0.607	0.610	0.613	0.597	0.594	0.605	1.2
1,4-Dioxane		0.507	0.520	0.524	0.487	0.502	0.505	2.6
2,3,4,6-Tetrachlorophenol		0.361	0.391	0.409	0.400	0.397	0.393	3.8
1-Methylnaphthalene		0.735	0.767	0.785	0.763	0.746	0.749	3.2

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