

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: FIRS02

Lab Code: ACE

SDG No.: Q2815

Instrument ID: BNA_F

Calibration Date(s): 08/20/2025 08/20/2025

Calibration Time(s): 10:55 14:20

LAB FILE ID:		RRF2.5 = BF143477.D			RRF005 = BF143478.D		RRF010 = BF143479.D	
		RRF020 = BF143480.D			RRF040 = BF143481.D		RRF050 = BF143482.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
2-Fluorophenol		1.203	1.198	1.194	1.138	1.087	1.145	4.9
Benzaldehyde			1.008	0.981	1.200	1.133	1.145	14.8
Phenol-d6		1.536	1.460	1.471	1.407	1.342	1.414	5.8
Phenol		1.741	1.695	1.725	1.646	1.554	1.629	6.4
bis(2-Chloroethyl) ether		1.296	1.230	1.235	1.213	1.170	1.217	3.8
2-Chlorophenol		1.301	1.284	1.302	1.268	1.229	1.265	2.9
2-Methylphenol		1.052	1.042	1.056	1.011	0.975	1.015	3.7
2,2-oxybis(1-Chloropropane)		2.144	2.104	2.053	1.954	1.805	1.947	8.4
Acetophenone		0.489	0.464	0.459	0.418	0.402	0.432	9.0
3+4-Methylphenols			1.337	1.320	1.218	1.143	1.212	8.4
n-Nitroso-di-n-propylamine	0.922	0.943	0.912	0.879	0.844	0.800	0.864	6.9
Nitrobenzene-d5		0.354	0.345	0.357	0.344	0.335	0.343	3.2
Hexachloroethane		0.495	0.498	0.502	0.491	0.462	0.485	3.8
Nitrobenzene		0.353	0.351	0.366	0.356	0.348	0.353	2.6
Isophorone		0.666	0.630	0.644	0.621	0.608	0.628	3.4
2-Nitrophenol		0.162	0.165	0.177	0.177	0.175	0.173	3.8
2,4-Dimethylphenol		0.283	0.272	0.281	0.270	0.262	0.269	4.1
bis(2-Chloroethoxy) methane		0.409	0.399	0.401	0.386	0.371	0.386	4.7
2,4-Dichlorophenol		0.293	0.299	0.303	0.288	0.281	0.288	4.3
Naphthalene		1.069	1.009	1.014	0.943	0.907	0.960	7.6
4-Chloroaniline		0.359	0.345	0.362	0.343	0.331	0.341	4.9
Hexachlorobutadiene		0.207	0.199	0.201	0.192	0.186	0.193	5.2
Caprolactam			0.063	0.068	0.071	0.071	0.069	5.0
4-Chloro-3-methylphenol		0.303	0.292	0.303	0.287	0.280	0.288	4.3
2-Methylnaphthalene		0.716	0.684	0.684	0.633	0.600	0.641	8.6
Hexachlorocyclopentadiene			0.098	0.153	0.198	0.205	0.184	27.0
2,4,6-Trichlorophenol		0.338	0.347	0.364	0.364	0.351	0.352	3.2
2-Fluorobiphenyl		1.445	1.336	1.323	1.156	1.106	1.210	13.2
2,4,5-Trichlorophenol		0.391	0.376	0.413	0.382	0.377	0.385	3.9
1,1-Biphenyl		1.582	1.505	1.519	1.399	1.335	1.420	8.4
2-Chloronaphthalene		1.222	1.165	1.172	1.105	1.056	1.114	6.8
2-Nitroaniline		0.314	0.313	0.338	0.337	0.329	0.326	3.2
Dimethylphthalate		1.293	1.219	1.252	1.201	1.159	1.205	4.6
Acenaphthylene		1.747	1.663	1.687	1.580	1.516	1.595	6.9

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
2,6-Dinitrotoluene		0.224	0.237	0.259	0.259	0.260	0.250	5.6
3-Nitroaniline		0.260	0.257	0.280	0.278	0.273	0.270	3.2
Acenaphthene		1.170	1.131	1.137	1.076	1.037	1.083	6.1
2,4-Dinitrophenol			0.072	0.099	0.120	0.132	0.115	21.9
4-Nitrophenol			0.115	0.147	0.171	0.177	0.161	15.8
Dibenzofuran		1.717	1.625	1.647	1.523	1.461	1.544	7.9
2,4-Dinitrotoluene		0.292	0.318	0.349	0.351	0.344	0.333	6.4
Diethylphthalate		1.172	1.097	1.110	1.084	1.053	1.080	5.0
4-Chlorophenyl-phenylether		0.671	0.624	0.628	0.585	0.558	0.594	8.3
Fluorene		1.367	1.286	1.270	1.158	1.111	1.188	10.2
4-Nitroaniline		0.230	0.237	0.258	0.257	0.255	0.248	4.3
4,6-Dinitro-2-methylphenol			0.085	0.103	0.119	0.120	0.113	14.0
n-Nitrosodiphenylamine		0.684	0.661	0.679	0.641	0.615	0.644	5.3
2,4,6-Tribromophenol		0.191	0.188	0.194	0.188	0.181	0.186	3.1
4-Bromophenyl-phenylether		0.243	0.240	0.250	0.241	0.230	0.239	3.3
Hexachlorobenzene		0.266	0.262	0.267	0.257	0.248	0.257	3.5
Atrazine		0.154	0.156	0.164	0.168	0.171	0.166	5.1
Pentachlorophenol			0.088	0.106	0.124	0.127	0.118	14.5
Phenanthrene		1.188	1.123	1.130	1.039	1.015	1.071	7.2
Anthracene		1.191	1.144	1.148	1.074	1.022	1.085	7.2
Carbazole		0.949	0.925	0.932	0.882	0.849	0.889	5.3
Di-n-butylphthalate		0.782	0.800	0.830	0.850	0.833	0.829	3.5
Fluoranthene		1.061	1.020	1.002	0.946	0.914	0.961	7.2
Pyrene		1.891	1.768	1.793	1.635	1.590	1.645	11.6
Terphenyl-d14		1.341	1.255	1.248	1.130	1.094	1.146	12.9
Butylbenzylphthalate		0.380	0.402	0.443	0.467	0.461	0.449	10.1
3,3-Dichlorobenzidine			0.353	0.386	0.373	0.354	0.369	3.6
Benzo (a) anthracene		1.302	1.274	1.300	1.318	1.266	1.288	2.3
Chrysene		1.251	1.195	1.213	1.113	1.089	1.157	5.3
Bis (2-ethylhexyl) phthalate		0.600	0.626	0.699	0.710	0.690	0.685	8.1
Di-n-octyl phthalate			1.129	1.289	1.298	1.251	1.268	7.4
Benzo (b) fluoranthene		1.135	1.147	1.182	1.074	1.058	1.112	4.2
Benzo (k) fluoranthene		1.157	1.014	1.056	1.081	1.034	1.064	5.1
Benzo (a) pyrene		1.033	1.021	1.074	1.032	1.010	1.032	2.1
Indeno (1,2,3-cd) pyrene		1.425	1.433	1.565	1.449	1.427	1.437	5.5

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Dibenzo (a,h) anthracene		1.139	1.164	1.260	1.162	1.142	1.151	6.0
Benzo (g,h,i) perylene		1.128	1.129	1.242	1.156	1.145	1.145	5.3
1,2,4,5-Tetrachlorobenzene		0.629	0.584	0.613	0.565	0.544	0.572	6.9
1,4-Dioxane		0.528	0.529	0.539	0.536	0.519	0.531	1.6
2,3,4,6-Tetrachlorophenol		0.261	0.264	0.299	0.297	0.294	0.286	5.6