

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ALLI03
Lab Code: CHEM Case No.: Q1872 SAS No.: Q1872 SDG No.: Q1872
Instrument ID: BNA_M Calibration Date(s): 04/28/2025 04/28/2025
Calibration Time(s): 12:30 17:04

LAB FILE ID:		RRF2.5 = BM050024.D			RRF005 = BM050025.D		RRF010 = BM050026.D	
		RRF020 = BM050027.D			RRF040 = BM050028.D		RRF050 = BM050029.D	
COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
n-Nitrosodimethylamine		0.487	0.459	0.475	0.522	0.518	0.493	4.6
Pyridine		1.201	1.166	1.229	1.331	1.328	1.258	5.0
2-Fluorophenol		1.074	1.079	1.107	1.208	1.211	1.142	5.0
Benzaldehyde		0.940	0.920	0.971	1.031	1.013	0.961	5.1
Aniline		1.657	1.689	1.768	1.942	1.922	1.813	6.2
Phenol-d6		1.290	1.318	1.398	1.543	1.537	1.436	7.1
Phenol		1.349	1.344	1.420	1.539	1.537	1.453	5.7
bis(2-Chloroethyl)ether		1.213	1.105	1.176	1.279	1.271	1.214	4.9
2-Chlorophenol		1.169	1.161	1.198	1.312	1.301	1.235	5.0
1,2-Dichlorobenzene		1.420	1.393	1.423	1.522	1.506	1.448	3.5
1,3-Dichlorobenzene		1.483	1.428	1.453	1.566	1.552	1.492	3.5
1,4-Dichlorobenzene		1.518	1.418	1.463	1.561	1.557	1.499	3.6
Benzyl Alcohol		0.866	0.881	0.966	1.080	1.074	0.996	9.2
2-Methylphenol		0.857	0.893	0.931	1.033	1.026	0.957	7.0
2,2-oxybis(1-Chloropropane)		1.487	1.422	1.445	1.552	1.513	1.475	3.2
Acetophenone		0.483	0.464	0.485	0.531	0.525	0.497	4.9
3+4-Methylphenols		1.137	1.170	1.267	1.393	1.392	1.293	8.1
n-Nitroso-di-n-propylamine	0.802	0.889	0.885	0.921	1.003	0.988	0.921	7.0
Nitrobenzene-d5		0.386	0.374	0.397	0.434	0.433	0.406	5.7
Hexachloroethane		0.552	0.508	0.521	0.556	0.548	0.533	3.8
Nitrobenzene		0.337	0.325	0.345	0.374	0.372	0.351	5.2
Isophorone		0.666	0.648	0.680	0.729	0.729	0.692	4.4
2-Nitrophenol		0.148	0.157	0.172	0.196	0.198	0.179	11.3
2,4-Dimethylphenol		0.263	0.266	0.289	0.324	0.322	0.297	8.4
bis(2-Chloroethoxy)methane		0.407	0.399	0.422	0.455	0.452	0.428	4.9
2,4-Dichlorophenol		0.294	0.298	0.326	0.362	0.359	0.333	8.5
1,2,4-Trichlorobenzene		0.400	0.384	0.394	0.427	0.426	0.406	4.0
Benzoic acid			0.138	0.172	0.197	0.206	0.190	15.7
Naphthalene		1.001	0.959	0.993	1.066	1.057	1.013	3.8
4-Chloroaniline		0.361	0.393	0.404	0.441	0.448	0.415	7.5
Hexachlorobutadiene		0.253	0.240	0.249	0.270	0.270	0.258	4.3
Caprolactam		0.090	0.085	0.095	0.104	0.104	0.097	7.7
4-Chloro-3-methylphenol		0.289	0.283	0.302	0.325	0.329	0.308	5.7
2-Methylnaphthalene		0.656	0.639	0.662	0.713	0.714	0.679	4.2

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			0.303	0.362	0.455	0.468	0.423	17.3
2,4,6-Trichlorophenol		0.372	0.381	0.423	0.476	0.485	0.439	10.8
2-Fluorobiphenyl		1.588	1.555	1.632	1.807	1.822	1.691	6.2
2,4,5-Trichlorophenol		0.410	0.417	0.453	0.517	0.519	0.474	9.8
1,1-Biphenyl		1.427	1.395	1.452	1.573	1.581	1.487	4.8
2-Chloronaphthalene		1.126	1.112	1.155	1.250	1.248	1.177	4.7
2-Nitroaniline		0.238	0.242	0.269	0.302	0.304	0.276	10.0
Dimethylphthalate		1.444	1.377	1.437	1.532	1.543	1.462	4.0
Acenaphthylene		1.794	1.715	1.810	1.972	1.971	1.857	5.1
2,6-Dinitrotoluene		0.266	0.271	0.299	0.327	0.331	0.303	8.5
3-Nitroaniline		0.233	0.247	0.284	0.321	0.325	0.289	12.5
Acenaphthene		1.038	0.998	1.046	1.133	1.145	1.075	4.9
2,4-Dinitrophenol			0.100	0.132	0.178	0.194	0.164	23.6
4-Nitrophenol			0.128	0.180	0.224	0.237	0.205	21.0
Dibenzofuran		1.749	1.681	1.749	1.876	1.888	1.788	4.2
2,4-Dinitrotoluene		0.338	0.366	0.412	0.456	0.468	0.418	11.7
Diethylphthalate		1.372	1.301	1.380	1.433	1.451	1.377	3.9
4-Chlorophenyl-phenylether		0.741	0.716	0.770	0.857	0.871	0.804	7.6
Fluorene		1.387	1.343	1.431	1.558	1.573	1.463	5.8
4-Nitroaniline		0.208	0.234	0.277	0.313	0.321	0.279	15.2
4,6-Dinitro-2-methylphenol			0.088	0.110	0.135	0.142	0.125	17.2
n-Nitrosodiphenylamine		0.580	0.572	0.596	0.655	0.657	0.614	5.6
Azobenzene		1.118	1.091	1.150	1.216	1.229	1.154	4.6
2,4,6-Tribromophenol		0.253	0.249	0.281	0.318	0.329	0.296	11.6
4-Bromophenyl-phenylether		0.223	0.216	0.229	0.258	0.258	0.242	7.6
Hexachlorobenzene		0.265	0.251	0.264	0.294	0.295	0.279	6.5
Atrazine		0.196	0.198	0.214	0.236	0.242	0.222	8.5
Pentachlorophenol			0.117	0.141	0.167	0.172	0.157	14.5
Phenanthrene		1.075	1.035	1.083	1.187	1.212	1.128	5.8
Anthracene		1.062	1.038	1.096	1.214	1.236	1.142	6.8
Carbazole		0.909	0.900	0.960	1.054	1.075	0.991	7.1
Di-n-butylphthalate		1.106	1.082	1.151	1.246	1.277	1.180	6.2
Fluoranthene		1.178	1.142	1.250	1.410	1.455	1.324	9.9
Benzidine			0.560	0.646	0.772	0.769	0.710	12.4
Pyrene		1.290	1.255	1.332	1.518	1.520	1.404	7.8

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COMPOUND	RRF2.5	RRF005	RRF010	RRF020	RRF040	RRF050	RRF	% RSD
Terphenyl-d14		1.176	1.189	1.332	1.524	1.541	1.352	11.6
Butylbenzylphthalate		0.489	0.479	0.515	0.562	0.568	0.526	6.5
3,3-Dichlorobenzidine		0.434	0.432	0.483	0.580	0.597	0.527	14.1
Benzo (a) anthracene		1.280	1.231	1.321	1.478	1.479	1.377	7.2
Chrysene		1.208	1.170	1.214	1.342	1.369	1.275	6.0
Bis (2-ethylhexyl) phthalate		0.726	0.725	0.775	0.843	0.852	0.786	6.6
Di-n-octyl phthalate		1.221	1.197	1.267	1.366	1.404	1.296	5.9
Benzo (b) fluoranthene		1.128	1.149	1.209	1.406	1.415	1.301	10.2
Benzo (k) fluoranthene		1.219	1.150	1.251	1.387	1.449	1.316	8.3
Benzo (a) pyrene		1.094	1.066	1.147	1.295	1.330	1.218	9.2
Indeno (1,2,3-cd) pyrene		1.301	1.293	1.404	1.602	1.646	1.490	10.3
Dibenzo (a,h) anthracene		1.056	1.044	1.142	1.300	1.347	1.215	10.7
Benzo (g,h,i) perylene		1.066	1.030	1.105	1.236	1.268	1.163	8.1
1,2,4,5-Tetrachlorobenzene		0.624	0.622	0.655	0.742	0.745	0.692	8.2
1,4-Dioxane		0.506	0.464	0.478	0.511	0.504	0.490	3.8
2,3,4,6-Tetrachlorophenol		0.366	0.362	0.398	0.435	0.445	0.410	8.4
1-Methylnaphthalene		0.703	0.675	0.708	0.753	0.751	0.719	3.9

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