

6C

SEMIVOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: CHEM02
Lab Code: CHEM Case No.: Q1623 SAS No.: Q1623 SDG No.: Q1623
Instrument ID: BNA_P Calibration Date(s): 03/04/2025 03/04/2025
Calibration Time(s): 09:37 13:01

LAB FILE ID:		RRFAL1 = BP024144.D			RRFAL2 = BP024145.D		RRFAL3 = BP024146.D	
		RRFAL4 = BP024147.D			RRFAL5 = BP024148.D		RRFAL6 = BP024149.D	
COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
1,4-Dioxane	0.518	0.491	0.598	0.553	0.488		0.530	8.7
Benzaldehyde		1.039	1.170	1.010	0.841	0.515	0.915	27.6
Hexachloroethane	0.532	0.544	0.628	0.570	0.558		0.566	6.6
Nitrobenzene	0.335	0.340	0.402	0.379	0.359		0.363	7.6
Isophorone	0.606	0.664	0.743	0.682	0.706		0.680	7.5
2-Nitrophenol	0.156	0.173	0.209	0.197	0.198		0.187	11.7
2,4-Dimethylphenol	0.310	0.318	0.374	0.340	0.332		0.335	7.4
Bis(2-Chloroethoxy)methane	0.400	0.420	0.478	0.436	0.431		0.433	6.6
2,4-Dichlorophenol	0.273	0.292	0.344	0.320	0.319		0.310	9.0
Naphthalene	1.051	1.038	1.184	1.096	1.046		1.083	5.6
4-Chloroaniline		0.424	0.483	0.437	0.436	0.430	0.442	5.3
Hexachlorobutadiene	0.176	0.183	0.210	0.194	0.184		0.190	6.8
Phenol		1.675	1.972	1.825	1.849	1.899	1.844	6.0
Caprolactam		0.104	0.119	0.110	0.123	0.131	0.118	9.1
4-Chloro-3-methylphenol	0.276	0.306	0.353	0.327	0.348		0.322	9.9
2-Methylnaphthalene	0.690	0.712	0.792	0.727	0.731		0.731	5.2
Hexachlorocyclopentadiene		0.268	0.351	0.345	0.313	0.293	0.314	11.1
2,4,6-Trichlorophenol	0.313	0.355	0.425	0.407	0.401		0.380	12.0
2,4,5-Trichlorophenol	0.347	0.382	0.462	0.442	0.436		0.414	11.5
1,1-Biphenyl	1.471	1.476	1.664	1.562	1.432		1.521	6.1
2-Chloronaphthalene	1.127	1.138	1.283	1.230	1.121		1.180	6.2
2-Nitroaniline	0.257	0.288	0.339	0.328	0.323		0.307	11.0
Bis(2-Chloroethyl)ether		1.325	1.544	1.384	1.384	1.376	1.403	5.9
Dimethylphthalate	1.387	1.428	1.596	1.446	1.393		1.450	5.9
2,6-Dinitrotoluene	0.233	0.264	0.314	0.297	0.314		0.284	12.4
Acenaphthylene	1.728	1.785	1.983	1.877	1.734		1.821	6.0
3-Nitroaniline		0.301	0.357	0.340	0.338	0.317	0.331	6.7
Acenaphthene	1.237	1.246	1.391	1.301	1.235		1.282	5.2
2,4-Dinitrophenol		0.120	0.165	0.172	0.203	0.226	0.177	22.8
4-Nitrophenol		0.188	0.217	0.214	0.207	0.202	0.206	5.6
Dibenzofuran	1.715	1.759	1.937	1.766	1.663		1.768	5.8
2,4-Dinitrotoluene	0.357	0.398	0.470	0.440	0.451		0.423	10.8
Diethylphthalate	1.364	1.414	1.587	1.401	1.409		1.435	6.1
2-Chlorophenol	1.277	1.345	1.576	1.462	1.443		1.421	8.1

All other compounds must meet a minimum RRF of 0.010.

Form VI SV-1

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Fluorene	1.408	1.426	1.592	1.451	1.350		1.445	6.2
4-Chlorophenyl-phenylether	0.686	0.687	0.758	0.692	0.668		0.698	4.9
4-Nitroaniline		0.320	0.374	0.351	0.317	0.265	0.325	12.6
4,6-Dinitro-2-methylphenol		0.109	0.142	0.141	0.150	0.147	0.138	12.1
N-Nitrosodiphenylamine	0.559	0.585	0.678	0.636	0.592		0.610	7.7
1,2,4,5-Tetrachlorobenzene	0.567	0.572	0.666	0.630	0.587		0.604	7.0
4-Bromophenyl-phenylether	0.193	0.208	0.247	0.226	0.227		0.220	9.2
Hexachlorobenzene	0.246	0.260	0.291	0.275	0.267		0.268	6.3
Atrazine		0.214	0.252	0.229	0.218	0.191	0.221	10.2
Pentachlorophenol		0.138	0.173	0.172	0.182	0.174	0.168	10.2
2-Methylphenol		1.222	1.424	1.309	1.369	1.414	1.348	6.2
Phenanthrene	1.111	1.096	1.244	1.177	1.089		1.143	5.8
Anthracene	1.100	1.111	1.263	1.195	1.092		1.152	6.5
Carbazole		1.033	1.175	1.116	1.031	0.875	1.046	10.8
Di-n-butylphthalate	1.064	1.143	1.371	1.274	1.240		1.218	9.7
Fluoranthene	1.023	1.176	1.328	1.117	1.197		1.168	9.6
Pyrene	1.157	1.286	1.413	1.206	1.232		1.259	7.8
Butylbenzylphthalate	0.415	0.476	0.582	0.512	0.553		0.508	12.9
3,3-Dichlorobenzidine		0.385	0.465	0.436	0.389	0.325	0.400	13.4
2,2-oxybis(1-Chloropropane)		1.450	1.625	1.435	1.440	1.407	1.471	5.9
Benzo(a)anthracene	1.250	1.267	1.440	1.342	1.244		1.309	6.4
Chrysene	1.197	1.194	1.354	1.249	1.152		1.229	6.3
Bis(2-ethylhexyl)phthalate	0.671	0.709	0.861	0.772	0.796		0.762	9.8
Di-n-octyl phthalate		1.058	1.299	1.148	1.237	1.096	1.168	8.5
Benzo(b)fluoranthene	1.084	1.130	1.305	1.220	1.207		1.190	7.2
Benzo(k)fluoranthene	1.122	1.137	1.326	1.234	1.219		1.207	6.8
Benzo(a)pyrene	1.029	1.063	1.240	1.170	1.122		1.125	7.5
Indeno(1,2,3-cd)pyrene	1.384	1.340	1.639	1.578	1.495		1.487	8.5
Dibenzo(a,h)anthracene	1.124	1.092	1.333	1.281	1.208		1.208	8.5
Benzo(g,h,i)perylene	1.086	1.048	1.263	1.227	1.148		1.154	7.9
Acetophenone		2.097	2.330	2.085	2.190	2.141	2.169	4.6
2,3,4,6-Tetrachlorophenol	0.284	0.325	0.377	0.355	0.362		0.340	10.8
1,4-Dioxane-d8	0.494	0.475	0.559	0.523	0.460		0.502	7.8
Pyridine-d5		1.278	1.593	1.493	1.436	1.422	1.444	8.0
Phenol-d5		1.578	1.888	1.740	1.799	1.867	1.775	7.0

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COMPOUND	RRFAL1	RRFAL2	RRFAL3	RRFAL4	RRFAL5	RRFAL6	RRF	% RSD
Bis-(2-Chloroethyl) ether-d8		0.940	1.074	0.969	0.959	0.945	0.977	5.6
2-Chlorophenol-d4	1.207	1.259	1.525	1.409	1.410		1.362	9.4
4-Methylphenol-d8		1.250	1.487	1.345	1.427	1.497	1.401	7.4
Nitrobenzene-d5	0.141	0.149	0.179	0.171	0.168		0.161	9.9
2-Nitrophenol-d4	0.136	0.151	0.188	0.181	0.187		0.169	14.0
2,4-Dichlorophenol-d3	0.254	0.283	0.340	0.318	0.321		0.303	11.4
4-Chloroaniline-d4		0.438	0.503	0.458	0.462	0.456	0.463	5.2
4-Methylphenol		1.367	1.590	1.440	1.510	1.559	1.493	6.1
Dimethylphthalate-d6	1.371	1.438	1.585	1.440	1.412		1.449	5.6
Acenaphthylene-d8	1.511	1.633	1.861	1.743	1.657		1.681	7.8
4-Nitrophenol-d4		0.253	0.310	0.303	0.307	0.310	0.297	8.3
Fluorene-d10	1.163	1.215	1.357	1.233	1.189		1.231	6.1
4,6-Dinitro-2-methylphenol		0.096	0.128	0.128	0.140	0.139	0.126	14.1
Anthracene-d10	0.905	0.937	1.084	1.010	0.944		0.976	7.3
Pyrene-d10	0.868	1.011	1.137	0.965	1.028		1.002	9.8
Benzo(a)pyrene-d12	0.934	0.960	1.144	1.083	1.064		1.037	8.5
N-Nitroso-di-n-propylamine	0.919	1.012	1.119	0.988	1.047		1.017	7.3

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