

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: ROYF02
 Lab Code: CHEM Case No.: Q1664 SAS No.: Q1664 SDG No.: Q1664
 Instrument ID: MSVOA_Y Calibration Date(s): 03/27/2025 03/27/2025
 Heated Purge: (Y/N) Y Calibration Time(s): 10:08 12:02
 GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:	RRF005 = VY021656.D			RRF010 = VY021657.D		RRF020 = VY021658.D			
	RRF050 = VY021659.D			RRF100 = VY021660.D		RRF150 = VY021661.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.602	0.577	0.493	0.506	0.485	0.447	0.518	11.4	
Chloromethane	0.876	0.775	0.713	0.692	0.672	0.644	0.729	11.6	
Vinyl Chloride	0.977	0.886	0.810	0.800	0.758	0.714	0.824	11.5	
Bromomethane	0.709	0.613	0.537	0.513	0.494	0.506	0.562	14.9	
Chloroethane	0.644	0.570	0.544	0.512	0.490	0.476	0.539	11.5	
Trichlorofluoromethane	1.212	1.124	1.104	1.013	0.967	0.914	1.056	10.5	
1,1,2-Trichlorotrifluoroethane	0.668	0.601	0.553	0.536	0.510	0.473	0.557	12.4	
1,1-Dichloroethene	0.589	0.564	0.508	0.514	0.496	0.477	0.524	8.2	
Acetone	0.145	0.123	0.102	0.107	0.087	0.102	0.111	18.3	
Carbon Disulfide	1.956	1.828	1.709	1.696	1.623	1.552	1.727	8.4	
Methyl tert-butyl Ether	1.380	1.335	1.247	1.325	1.256	1.292	1.306	3.9	
Methyl Acetate	0.329	0.286	0.269	0.265	0.243	0.257	0.275	11	
Methylene Chloride	0.870	0.694	0.594	0.564	0.518	0.514	0.626	21.8	
trans-1,2-Dichloroethene	0.634	0.608	0.568	0.567	0.551	0.536	0.577	6.3	
1,1-Dichloroethane	1.178	1.091	1.024	1.040	0.992	0.968	1.049	7.3	
Cyclohexane	1.170	1.032	0.912	0.918	0.886	0.818	0.956	13.1	
2-Butanone	0.181	0.166	0.149	0.159	0.140	0.155	0.158	8.9	
Carbon Tetrachloride	0.637	0.594	0.546	0.564	0.547	0.507	0.566	7.9	
cis-1,2-Dichloroethene	0.700	0.658	0.626	0.652	0.631	0.629	0.649	4.3	
Bromochloromethane	0.513	0.470	0.424	0.426	0.420	0.402	0.442	9.3	
Chloroform	1.235	1.141	1.062	1.081	1.026	1.000	1.091	7.9	
1,1,1-Trichloroethane	1.155	1.013	0.959	0.967	0.929	0.893	0.986	9.3	
Methylcyclohexane	0.593	0.599	0.569	0.619	0.612	0.550	0.590	4.5	
Benzene	1.606	1.527	1.429	1.499	1.445	1.371	1.479	5.6	
1,2-Dichloroethane	0.467	0.445	0.399	0.420	0.392	0.379	0.417	8.1	
Trichloroethene	0.412	0.398	0.362	0.374	0.366	0.348	0.377	6.4	
1,2-Dichloropropane	0.383	0.366	0.334	0.353	0.340	0.325	0.350	6.2	
Bromodichloromethane	0.571	0.546	0.504	0.525	0.508	0.484	0.523	6	
4-Methyl-2-Pentanone	0.232	0.240	0.219	0.241	0.222	0.226	0.230	3.9	
Toluene	0.940	0.943	0.893	0.951	0.928	0.885	0.923	3	

* Compounds with required minimum RRF and maximum %RSD values.
 All other compounds must meet a minimum RRF of 0.010.
 RRF of 1,4-Dioxane = Value should be divide by 1000.

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COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
t-1,3-Dichloropropene	0.456	0.470	0.439	0.486	0.475	0.461	0.465	3.5	
cis-1,3-Dichloropropene	0.553	0.558	0.528	0.565	0.549	0.534	0.548	2.6	
1,1,2-Trichloroethane	0.280	0.283	0.249	0.261	0.247	0.240	0.260	6.9	
2-Hexanone	0.154	0.154	0.144	0.164	0.148	0.154	0.153	4.2	
Dibromochloromethane	0.371	0.367	0.340	0.364	0.348	0.337	0.355	4.1	
1,2-Dibromoethane	0.267	0.250	0.230	0.254	0.233	0.229	0.244	6.3	
Tetrachloroethene	0.534	0.503	0.453	0.449	0.412	0.382	0.455	12.3	
Chlorobenzene	1.244	1.178	1.110	1.155	1.116	1.073	1.146	5.3	
Ethyl Benzene	1.949	1.916	1.918	2.051	2.023	1.935	1.965	2.9	
m/p-Xylenes	0.726	0.753	0.744	0.787	0.774	0.731	0.753	3.2	
o-Xylene	0.665	0.670	0.676	0.738	0.725	0.694	0.695	4.4	
Styrene	1.064	1.110	1.134	1.232	1.229	1.181	1.158	5.8	
Bromoform	0.241	0.239	0.229	0.237	0.225	0.221	0.232	3.4	
Isopropylbenzene	3.628	3.701	3.582	3.826	3.843	3.702	3.714	2.8	
1,1,2,2-Tetrachloroethane	0.764	0.720	0.616	0.657	0.619	0.631	0.668	9.1	
1,3-Dichlorobenzene	1.895	1.774	1.707	1.748	1.728	1.689	1.757	4.2	
1,4-Dichlorobenzene	1.876	1.794	1.704	1.741	1.673	1.626	1.736	5.2	
1,2-Dichlorobenzene	1.598	1.607	1.496	1.524	1.486	1.465	1.529	3.9	
1,2-Dibromo-3-Chloropropane	0.112	0.111	0.097	0.102	0.096	0.102	0.103	6.6	
1,2,4-Trichlorobenzene	0.771	0.781	0.787	0.878	0.870	0.889	0.829	6.6	
1,2,3-Trichlorobenzene	0.653	0.681	0.673	0.746	0.737	0.753	0.707	6.1	
1,2-Dichloroethane-d4	0.612	0.559	0.502	0.548	0.510	0.520	0.542	7.5	
Dibromofluoromethane	0.357	0.321	0.290	0.339	0.325	0.313	0.324	7	
Toluene-d8	1.277	1.240	1.127	1.306	1.252	1.201	1.234	5.1	
4-Bromofluorobenzene	0.447	0.410	0.378	0.439	0.424	0.407	0.417	6	

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