

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: SCAL01

Lab Code: CHEM Case No.: Q2161 SAS No.: Q2161 SDG No.: Q2161

Instrument ID: MSVOA_Y Calibration Date(s): 06/02/2025 06/02/2025

Heated Purge: (Y/N) Y Calibration Time(s): 11:46 13:39

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID:		RRF005 = VY022491.D		RRF010 = VY022492.D		RRF020 = VY022493.D			
		RRF050 = VY022494.D		RRF100 = VY022495.D		RRF150 = VY022496.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.433	0.542	0.495	0.413	0.397	0.405	0.448	13	
Chloromethane	1.320	1.590	1.431	1.230	1.178	1.185	1.322	12.3	
Vinyl Chloride	1.371	1.814	1.647	1.497	1.444	1.432	1.534	10.8	
Bromomethane	1.365	1.735	1.705	1.240	1.341	1.436	1.470	13.8	
Chloroethane	0.973	1.278	1.198	0.965	0.941	0.964	1.053	13.8	
Trichlorofluoromethane	1.135	1.492	1.430	1.224	1.223	1.310	1.302	10.5	
1,1,2-Trichlorotrifluoroethane	0.510	0.615	0.572	0.538	0.522	0.534	0.549	7.1	
1,1-Dichloroethene	0.469	0.577	0.549	0.518	0.510	0.523	0.524	7	
Acetone	0.130	0.119	0.120	0.116	0.105	0.092	0.114	11.6	
Carbon Disulfide	1.503	1.870	1.731	1.664	1.638	1.666	1.679	7.2	
Methyl tert-butyl Ether	1.307	1.618	1.571	1.470	1.435	1.462	1.477	7.4	
Methyl Acetate	0.280	0.408	0.396	0.333	0.301	0.301	0.336	15.9	
Methylene Chloride	0.861	0.700	0.637	0.574	0.548	0.550	0.645	18.7	
trans-1,2-Dichloroethene	0.522	0.651	0.612	0.571	0.574	0.592	0.587	7.4	
1,1-Dichloroethane	0.968	1.193	1.124	1.060	1.051	1.080	1.079	7	
Cyclohexane	1.168	1.208	1.098	1.015	0.970	0.988	1.075	9.2	
2-Butanone	0.143	0.174	0.178	0.168	0.163	0.157	0.164	7.6	
Carbon Tetrachloride	0.415	0.516	0.497	0.508	0.508	0.537	0.497	8.5	
cis-1,2-Dichloroethene	0.592	0.731	0.706	0.682	0.668	0.691	0.678	7	
Bromochloromethane	0.470	0.477	0.479	0.454	0.469	0.474	0.471	1.9	
Chloroform	0.960	1.183	1.109	1.058	1.043	1.062	1.069	6.9	
1,1,1-Trichloroethane	0.819	1.029	0.970	0.948	0.951	0.977	0.949	7.4	
Methylcyclohexane	0.568	0.674	0.645	0.657	0.664	0.698	0.651	6.9	
Benzene	1.213	1.487	1.473	1.441	1.452	1.518	1.431	7.7	
1,2-Dichloroethane	0.320	0.424	0.413	0.390	0.395	0.401	0.391	9.4	
Trichloroethene	0.294	0.388	0.353	0.355	0.350	0.358	0.350	8.7	
1,2-Dichloropropane	0.274	0.364	0.354	0.344	0.344	0.349	0.338	9.6	
Bromodichloromethane	0.380	0.525	0.499	0.491	0.491	0.508	0.482	10.7	
4-Methyl-2-Pentanone	0.175	0.242	0.246	0.243	0.244	0.246	0.233	12.1	
Toluene	0.732	0.932	0.904	0.903	0.933	0.990	0.899	9.8	

* 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	0.350	0.468	0.476	0.461	0.468	0.487	0.452	11.2				
cis-1,3-Dichloropropene	0.423	0.549	0.545	0.537	0.544	0.558	0.526	9.7				
1,1,2-Trichloroethane	0.207	0.257	0.258	0.242	0.243	0.249	0.243	7.7				
2-Hexanone	0.120	0.158	0.166	0.162	0.165	0.162	0.156	11.3				
Dibromochloromethane	0.248	0.320	0.325	0.314	0.319	0.323	0.308	9.6				
1,2-Dibromoethane	0.174	0.236	0.239	0.223	0.225	0.230	0.221	10.9				
Tetrachloroethene	0.375	0.474	0.448	0.437	0.416	0.432	0.430	7.7				
Chlorobenzene	0.949	1.170	1.102	1.116	1.120	1.182	1.106	7.5				
Ethyl Benzene	1.655	2.090	2.006	2.083	2.148	2.332	2.052	10.9				
m/p-Xylenes	0.616	0.780	0.765	0.785	0.822	0.899	0.778	11.9				
o-Xylene	0.583	0.749	0.721	0.734	0.764	0.826	0.729	11				
Styrene	0.909	1.195	1.189	1.233	1.291	1.417	1.206	13.9				
Bromoform	0.161	0.209	0.200	0.201	0.206	0.214	0.198	9.7				
Isopropylbenzene	3.470	4.308	4.090	4.136	4.167	4.460	4.105	8.3				
1,1,2,2-Tetrachloroethane	0.570	0.738	0.692	0.682	0.671	0.689	0.674	8.3				
1,3-Dichlorobenzene	1.514	1.783	1.730	1.733	1.809	1.963	1.755	8.3				
1,4-Dichlorobenzene	1.508	1.814	1.733	1.701	1.677	1.781	1.702	6.3				
1,2-Dichlorobenzene	1.246	1.582	1.547	1.512	1.490	1.564	1.490	8.3				
1,2-Dibromo-3-Chloropropane	0.074	0.110	0.103	0.105	0.098	0.099	0.098	12.7				
1,2,4-Trichlorobenzene	0.667	0.863	0.812	0.817	0.851	0.865	0.813	9.2				
1,2,3-Trichlorobenzene	0.622	0.721	0.712	0.699	0.710	0.714	0.697	5.3				
1,2-Dichloroethane-d4	0.523	0.574	0.556	0.591	0.552	0.559	0.559	4.1				
Dibromofluoromethane	0.264	0.283	0.301	0.321	0.307	0.315	0.298	7.2				
Toluene-d8	1.067	1.181	1.158	1.279	1.253	1.298	1.206	7.2				
4-Bromofluorobenzene	0.339	0.339	0.347	0.372	0.373	0.386	0.359	5.6				

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