

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: SCIA01

Lab Code: CHEM Case No.: Q2147 SAS No.: Q2147 SDG No.: Q2147

Instrument ID: MSVOA_Y Calibration Date(s): 05/27/2025 05/27/2025

Heated Purge: (Y/N) Y Calibration Time(s): 08:50 10:44

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

LAB FILE ID:		RRF005 = VY022421.D		RRF010 = VY022422.D		RRF020 = VY022423.D		RRF050 = VY022424.D		RRF100 = VY022425.D		RRF150 = VY022426.D	
COMPOUND		RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD				
Dichlorodifluoromethane		0.544	0.509	0.526	0.423	0.430	0.429	0.477	11.6				
Chloromethane		1.364	1.331	1.300	1.196	0.936	0.912	1.173	17.1				
Vinyl Chloride		1.535	1.493	1.522	1.453	1.292	1.257	1.425	8.5				
Bromomethane		1.261	1.281	1.397	1.275	1.213	1.345	1.295	5.1				
Chloroethane		0.930	0.881	0.949	1.015	0.907	0.907	0.932	5				
Trichlorofluoromethane		1.243	1.174	1.222	1.197	1.187	1.193	1.203	2.1				
1,1,2-Trichlorotrifluoroethane		0.552	0.517	0.541	0.520	0.523	0.512	0.528	2.9				
1,1-Dichloroethene		0.552	0.512	0.533	0.511	0.520	0.515	0.524	3				
Acetone		0.094	0.090	0.081	0.085	0.086	0.083	0.087	5.6				
Carbon Disulfide		1.672	1.675	1.707	1.653	1.672	1.650	1.672	1.2				
Methyl tert-butyl Ether		1.353	1.359	1.357	1.386	1.445	1.445	1.391	3.1				
Methyl Acetate		0.288	0.319	0.296	0.308	0.351	0.383	0.324	11.2				
Methylene Chloride		0.778	0.669	0.578	0.549	0.550	0.543	0.611	15.5				
trans-1,2-Dichloroethene		0.595	0.556	0.555	0.561	0.582	0.582	0.572	2.9				
1,1-Dichloroethane		1.000	0.986	1.035	1.027	1.062	1.056	1.028	2.9				
Cyclohexane		1.220	1.044	0.997	0.939	0.947	0.931	1.013	10.9				
2-Butanone		0.137	0.144	0.136	0.142	0.152	0.154	0.144	5.2				
Carbon Tetrachloride		0.473	0.456	0.471	0.481	0.510	0.512	0.484	4.7				
cis-1,2-Dichloroethene		0.655	0.647	0.650	0.652	0.684	0.685	0.662	2.6				
Bromochloromethane		0.400	0.426	0.435	0.439	0.439	0.437	0.429	3.5				
Chloroform		0.966	0.970	1.023	1.026	1.052	1.038	1.013	3.5				
1,1,1-Trichloroethane		0.900	0.894	0.916	0.913	0.952	0.940	0.919	2.5				
Methylcyclohexane		0.611	0.602	0.603	0.614	0.638	0.636	0.618	2.6				
Benzene		1.308	1.312	1.360	1.391	1.463	1.461	1.383	5				
1,2-Dichloroethane		0.348	0.348	0.360	0.369	0.383	0.384	0.365	4.5				
Trichloroethene		0.334	0.325	0.344	0.343	0.357	0.347	0.342	3.3				
1,2-Dichloropropane		0.321	0.307	0.318	0.323	0.342	0.339	0.325	4				
Bromodichloromethane		0.452	0.449	0.449	0.464	0.493	0.494	0.467	4.5				
4-Methyl-2-Pentanone		0.185	0.197	0.198	0.218	0.237	0.242	0.213	10.8				
Toluene		0.782	0.805	0.842	0.868	0.929	0.957	0.864	7.9				

* 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	0.400	0.414	0.416	0.434	0.472	0.473	0.435	7.1	
cis-1,3-Dichloropropene	0.477	0.480	0.504	0.508	0.549	0.547	0.511	6.1	
1,1,2-Trichloroethane	0.219	0.216	0.226	0.229	0.243	0.243	0.229	5.1	
2-Hexanone	0.121	0.125	0.129	0.145	0.157	0.159	0.140	12	
Dibromochloromethane	0.258	0.274	0.284	0.302	0.320	0.321	0.293	8.7	
1,2-Dibromoethane	0.199	0.189	0.207	0.215	0.223	0.225	0.210	6.8	
Tetrachloroethene	0.433	0.417	0.433	0.429	0.429	0.413	0.426	2.1	
Chlorobenzene	1.020	1.000	1.051	1.067	1.132	1.127	1.066	5.1	
Ethyl Benzene	1.823	1.828	1.920	1.980	2.142	2.185	1.980	7.8	
m/p-Xylenes	0.698	0.660	0.723	0.756	0.825	0.841	0.751	9.5	
o-Xylene	0.654	0.637	0.673	0.709	0.768	0.792	0.705	8.9	
Styrene	1.037	1.020	1.117	1.197	1.317	1.359	1.175	12.1	
Bromoform	0.169	0.176	0.184	0.192	0.206	0.210	0.189	8.6	
Isopropylbenzene	3.863	3.741	3.946	3.871	4.105	4.086	3.935	3.6	
1,1,2,2-Tetrachloroethane	0.623	0.574	0.604	0.615	0.652	0.653	0.620	4.8	
1,3-Dichlorobenzene	1.587	1.558	1.674	1.695	1.836	1.874	1.704	7.5	
1,4-Dichlorobenzene	1.596	1.527	1.617	1.642	1.707	1.687	1.629	4	
1,2-Dichlorobenzene	1.383	1.332	1.431	1.416	1.495	1.482	1.423	4.3	
1,2-Dibromo-3-Chloropropane	0.103	0.093	0.096	0.093	0.093	0.096	0.096	3.8	
1,2,4-Trichlorobenzene	0.714	0.724	0.771	0.828	0.842	0.856	0.789	7.8	
1,2,3-Trichlorobenzene	0.575	0.554	0.644	0.684	0.703	0.722	0.647	10.7	
1,2-Dichloroethane-d4	0.507	0.525	0.517	0.532	0.541	0.538	0.527	2.5	
Dibromofluoromethane	0.287	0.281	0.283	0.290	0.309	0.308	0.293	4.3	
Toluene-d8	1.159	1.133	1.168	1.176	1.274	1.251	1.194	4.7	
4-Bromofluorobenzene	0.377	0.331	0.345	0.355	0.382	0.376	0.361	5.7	

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