

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: SCIA01

Lab Code: CHEM Case No.: Q1290 SAS No.: Q1290 SDG No.: Q1290

Instrument ID: MSVOA_Y Calibration Date(s): 02/03/2025 02/03/2025

Heated Purge: (Y/N) Y Calibration Time(s): 10:35 12:44

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

LAB FILE ID:	RRF005 = VY021020.D			RRF010 = VY021021.D		RRF020 = VY021022.D		RRF050 = VY021023.D		RRF100 = VY021024.D		RRF150 = VY021025.D	
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD					
Dichlorodifluoromethane	0.503	0.438	0.413	0.445	0.419	0.457	0.446	7.2					
Chloromethane	0.524	0.445	0.408	0.421	0.404	0.437	0.440	10.1					
Vinyl Chloride	0.535	0.441	0.404	0.424	0.408	0.443	0.443	10.9					
Bromomethane	0.356	0.275	0.249	0.258	0.246	0.257	0.274	15.2					
Chloroethane	0.316	0.270	0.240	0.255	0.239	0.261	0.263	10.7					
Trichlorofluoromethane	0.924	0.814	0.755	0.789	0.743	0.813	0.806	8					
1,1,2-Trichlorotrifluoroethane	0.587	0.507	0.472	0.494	0.466	0.510	0.506	8.6					
1,1-Dichloroethene	0.529	0.471	0.441	0.469	0.452	0.498	0.477	6.8					
Acetone	0.087	0.083	0.078	0.077	0.070	0.083	0.080	7.5					
Carbon Disulfide	1.673	1.456	1.389	1.475	1.421	1.556	1.495	7					
Methyl tert-butyl Ether	1.271	1.185	1.168	1.216	1.124	1.265	1.205	4.8					
Methyl Acetate	0.300	0.282	0.268	0.287	0.253	0.291	0.280	6.1					
Methylene Chloride	0.570	0.506	0.473	0.485	0.452	0.494	0.497	8.2					
trans-1,2-Dichloroethene	0.578	0.518	0.502	0.522	0.490	0.538	0.525	5.8					
1,1-Dichloroethane	1.104	0.948	0.923	0.947	0.911	0.989	0.970	7.3					
Cyclohexane	1.093	0.885	0.807	0.827	0.779	0.852	0.874	13					
2-Butanone	0.134	0.133	0.126	0.135	0.121	0.139	0.131	5.2					
Carbon Tetrachloride	0.604	0.551	0.522	0.547	0.522	0.581	0.555	5.9					
cis-1,2-Dichloroethene	0.662	0.584	0.577	0.599	0.575	0.626	0.604	5.7					
Bromochloromethane	0.373	0.368	0.381	0.413	0.374	0.394	0.384	4.4					
Chloroform	1.107	1.016	0.947	0.982	0.921	1.006	0.997	6.5					
1,1,1-Trichloroethane	1.067	0.901	0.867	0.912	0.863	0.949	0.927	8.2					
Methylcyclohexane	0.609	0.550	0.536	0.588	0.570	0.629	0.581	6.1					
Benzene	1.512	1.382	1.327	1.378	1.323	1.436	1.393	5.1					
1,2-Dichloroethane	0.435	0.390	0.367	0.379	0.352	0.395	0.386	7.4					
Trichloroethene	0.401	0.355	0.341	0.349	0.338	0.375	0.360	6.7					
1,2-Dichloropropane	0.357	0.329	0.319	0.327	0.311	0.341	0.331	5					
Bromodichloromethane	0.528	0.500	0.469	0.482	0.459	0.506	0.491	5.2					
4-Methyl-2-Pentanone	0.202	0.211	0.202	0.216	0.194	0.224	0.208	5.2					
Toluene	0.913	0.856	0.840	0.876	0.844	0.918	0.875	3.9					

* 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	0.441	0.426	0.419	0.449	0.427	0.483	0.441	5.3	
cis-1,3-Dichloropropene	0.528	0.516	0.502	0.525	0.501	0.560	0.522	4.2	
1,1,2-Trichloroethane	0.261	0.235	0.231	0.235	0.217	0.242	0.237	6.1	
2-Hexanone	0.124	0.131	0.128	0.144	0.129	0.149	0.134	7.4	
Dibromochloromethane	0.359	0.330	0.324	0.329	0.310	0.346	0.333	5.2	
1,2-Dibromoethane	0.232	0.223	0.215	0.225	0.203	0.233	0.222	5	
Tetrachloroethene	0.409	0.367	0.352	0.361	0.351	0.387	0.371	6.2	
Chlorobenzene	1.237	1.115	1.054	1.080	1.048	1.146	1.113	6.4	
Ethyl Benzene	2.101	1.899	1.865	1.943	1.914	2.093	1.969	5.2	
m/p-Xylenes	0.772	0.723	0.709	0.733	0.711	0.773	0.737	3.9	
o-Xylene	0.723	0.658	0.660	0.681	0.670	0.729	0.687	4.6	
Styrene	1.154	1.118	1.105	1.156	1.128	1.208	1.145	3.2	
Bromoform	0.231	0.222	0.217	0.216	0.205	0.229	0.220	4.4	
Isopropylbenzene	4.122	3.695	3.673	3.809	3.871	4.263	3.906	6.1	
1,1,2,2-Tetrachloroethane	0.707	0.646	0.635	0.632	0.597	0.680	0.650	6	
1,3-Dichlorobenzene	1.937	1.686	1.660	1.683	1.652	1.824	1.740	6.6	
1,4-Dichlorobenzene	1.906	1.702	1.632	1.665	1.599	1.778	1.714	6.6	
1,2-Dichlorobenzene	1.668	1.524	1.440	1.460	1.405	1.567	1.510	6.4	
1,2-Dibromo-3-Chloropropane	0.099	0.099	0.089	0.097	0.089	0.109	0.097	7.6	
1,2,4-Trichlorobenzene	0.796	0.754	0.743	0.875	0.873	1.004	0.841	11.6	
1,2,3-Trichlorobenzene	0.641	0.640	0.626	0.733	0.726	0.832	0.700	11.4	
1,2-Dichloroethane-d4	0.566	0.557	0.478	0.503	0.454	0.516	0.512	8.5	
Dibromofluoromethane	0.351	0.326	0.301	0.313	0.297	0.333	0.320	6.4	
Toluene-d8	1.295	1.237	1.139	1.202	1.158	1.288	1.220	5.3	
4-Bromofluorobenzene	0.417	0.408	0.371	0.403	0.375	0.418	0.399	5.2	

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