

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: GENV01

Lab Code: ACE

SDG No.: Q3716

Instrument ID: MSVOA_N

Calibration Date(s): 11/24/2025 11/24/2025

Heated Purge: (Y/N) N

Calibration Time(s): 12:38 14:35

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

LAB FILE ID:		RRF001 = VN088344.D		RRF005 = VN088345.D		RRF020 = VN088346.D			
		RRF050 = VN088347.D		RRF100 = VN088348.D		RRF150 = VN088349.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.719	0.676	0.796	0.741	0.838	0.736	0.751	7.7	
Chloromethane	0.911	0.800	0.805	0.801	0.759	0.764	0.807	6.8	
Vinyl Chloride	0.804	0.844	0.856	0.812	0.837	0.772	0.821	3.8	
Bromomethane		0.407	0.392	0.396	0.387	0.392	0.395	1.9	
Chloroethane	0.555	0.503	0.496	0.505	0.502	0.485	0.508	4.8	
Trichlorofluoromethane	1.234	1.170	1.168	1.092	1.201	1.055	1.153	5.8	
1,1,2-Trichlorotrifluoroethane	0.660	0.635	0.639	0.564	0.633	0.553	0.614	7.2	
Tert butyl alcohol		0.151	0.149	0.161	0.142	0.148	0.150	4.6	
1,1-Dichloroethene	0.722	0.620	0.601	0.568	0.595	0.554	0.610	9.8	
Acetone	0.412	0.355	0.322	0.335	0.305	0.314	0.341	11.5	
Carbon Disulfide	2.061	2.043	2.043	1.983	1.996	1.833	1.993	4.2	
Methyl tert-butyl Ether	2.126	2.239	2.245	2.504	2.265	2.333	2.285	5.5	
Methyl Acetate	1.072	1.048	0.957	1.049	0.972	0.985	1.014	4.7	
Methylene Chloride	0.797	0.752	0.704	0.756	0.686	0.678	0.729	6.4	
trans-1,2-Dichloroethene	0.752	0.668	0.676	0.686	0.647	0.626	0.676	6.4	
1,1-Dichloroethane	1.389	1.431	1.348	1.427	1.321	1.286	1.367	4.3	
Cyclohexane		1.450	1.264	1.133	1.237	1.109	1.239	10.9	
2-Butanone	0.509	0.538	0.548	0.596	0.540	0.556	0.548	5.2	
Carbon Tetrachloride	0.565	0.504	0.548	0.499	0.570	0.509	0.532	6	
cis-1,2-Dichloroethene	0.797	0.801	0.794	0.829	0.747	0.744	0.785	4.2	
Bromochloromethane	0.724	0.722	0.684	0.735	0.624	0.597	0.681	8.5	
Chloroform	1.377	1.362	1.351	1.392	1.291	1.285	1.343	3.3	
1,1,1-Trichloroethane	1.247	1.219	1.192	1.158	1.166	1.104	1.181	4.3	
Methylcyclohexane	0.534	0.542	0.606	0.527	0.662	0.561	0.572	9.1	
Benzene	1.658	1.555	1.609	1.559	1.559	1.477	1.570	3.9	
1,2-Dichloroethane	0.583	0.614	0.596	0.615	0.597	0.587	0.599	2.3	
Trichloroethene	0.382	0.385	0.383	0.357	0.371	0.348	0.371	4.1	
1,2-Dichloropropane	0.426	0.402	0.402	0.406	0.396	0.381	0.402	3.6	
Bromodichloromethane	0.602	0.586	0.586	0.589	0.583	0.566	0.586	2	
4-Methyl-2-Pentanone	0.540	0.616	0.661	0.673	0.658	0.651	0.633	7.8	

* 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	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Toluene	0.829	0.885	0.940	0.913	0.960	0.911	0.906	5.1	
t-1,3-Dichloropropene	0.567	0.553	0.598	0.631	0.631	0.625	0.601	5.7	
cis-1,3-Dichloropropene	0.590	0.618	0.628	0.662	0.654	0.640	0.632	4.2	
1,1,2-Trichloroethane	0.350	0.359	0.364	0.353	0.341	0.336	0.351	3	
2-Hexanone	0.359	0.301	0.406	0.436	0.442	0.450	0.399	14.7	
Dibromochloromethane	0.384	0.386	0.406	0.409	0.410	0.404	0.400	2.9	
1,2-Dibromoethane	0.304	0.367	0.364	0.369	0.367	0.359	0.355	7.2	
Tetrachloroethene	0.426	0.388	0.413	0.377	0.407	0.367	0.396	5.7	
Chlorobenzene	1.114	1.142	1.161	1.106	1.145	1.070	1.123	3	
Ethyl Benzene	1.881	1.860	2.014	1.938	2.133	1.952	1.963	5.1	
m/p-Xylenes	0.658	0.690	0.769	0.733	0.788	0.728	0.728	6.6	
o-Xylene	0.670	0.619	0.722	0.696	0.749	0.708	0.694	6.5	
Styrene	0.884	1.025	1.163	1.193	1.284	1.210	1.127	12.9	
Bromoform	0.224	0.273	0.285	0.285	0.302	0.295	0.277	10.1	
Isopropylbenzene	3.339	3.528	3.944	3.624	4.040	3.706	3.697	7.1	
1,1,2,2-Tetrachloroethane	1.377	1.218	1.231	1.127	1.135	1.082	1.195	8.9	
1,2,4-Trimethylbenzene	2.572	2.827	3.310	3.112	3.344	3.105	3.045	9.7	
1,3-Dichlorobenzene	1.730	1.573	1.720	1.606	1.676	1.574	1.647	4.3	
1,4-Dichlorobenzene	1.747	1.825	1.786	1.681	1.702	1.608	1.725	4.5	
1,2-Dichlorobenzene	1.518	1.574	1.583	1.521	1.595	1.505	1.550	2.5	
1,2-Dibromo-3-Chloropropane	0.284	0.284	0.284	0.288	0.300	0.300	0.290	2.8	
1,2,4-Trichlorobenzene	0.998	0.864	0.901	0.889	0.955	0.917	0.921	5.3	
1,2,3-Trichlorobenzene	0.942	0.850	0.888	0.875	0.930	0.891	0.896	3.8	
1,2-Dichloroethane-d4		0.954	0.916	0.999	0.882	0.960	0.942	4.7	
Dibromofluoromethane		0.361	0.350	0.350	0.334	0.337	0.346	3.2	
Toluene-d8		1.249	1.292	1.285	1.308	1.313	1.289	2	
4-Bromofluorobenzene		0.402	0.413	0.448	0.466	0.482	0.442	7.7	

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