

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: ROYF02

Lab Code: ACE

SDG No.: Q3178

Instrument ID: MSVOA_W

Calibration Date(s): 08/26/2025 08/26/2025

Heated Purge: (Y/N) Y

Calibration Time(s): 09:39 12:34

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

LAB FILE ID:		RRF005 = VW032137.D		RRF010 = VW032138.D		RRF020 = VW032139.D		
		RRF100 = VW032141.D		RRF150 = VW032142.D		RRF050 = VW032144.D		
COMPOUND	RRF005	RRF010	RRF020	RRF100	RRF150	RRF050	RRF	% RSD
Dichlorodifluoromethane	0.358	0.346	0.357	0.306	0.302	0.312	0.330	8
Chloromethane	0.398	0.347	0.341	0.320	0.330	0.340	0.346	7.9
Vinyl Chloride	0.490	0.486	0.461	0.414	0.402	0.444	0.450	8.2
Bromomethane	0.459	0.414	0.408	0.369	0.384	0.374	0.401	8.4
Chloroethane	0.322	0.335	0.324	0.298	0.304	0.317	0.317	4.3
Trichlorofluoromethane	0.383	0.446	0.455	0.451	0.457	0.481	0.445	7.4
1,1,2-Trichlorotrifluoroethane	0.558	0.514	0.514	0.465	0.454	0.505	0.502	7.5
1,1-Dichloroethene	0.582	0.515	0.547	0.498	0.493	0.536	0.528	6.4
Acetone	0.178	0.161	0.152	0.143	0.138	0.157	0.155	9.1
Carbon Disulfide	1.357	1.337	1.340	1.279	1.257	1.360	1.322	3.3
Methyl tert-butyl Ether	0.981	0.991	1.001	1.005	0.959	1.051	0.998	3.1
Methyl Acetate	0.494	0.465	0.474	0.510	0.501	0.515	0.493	4
Methylene Chloride	0.973	0.880	0.720	0.582	0.555	0.641	0.725	23.3
trans-1,2-Dichloroethene	0.597	0.595	0.604	0.576	0.559	0.609	0.590	3.2
1,1-Dichloroethane	1.118	1.083	1.083	1.026	1.005	1.102	1.070	4.2
Cyclohexane	1.048	0.930	0.852	0.796	0.779	0.862	0.878	11.3
2-Butanone	0.201	0.216	0.217	0.232	0.223	0.226	0.219	4.9
Carbon Tetrachloride	0.467	0.489	0.480	0.477	0.467	0.545	0.488	6
cis-1,2-Dichloroethene	0.734	0.721	0.722	0.705	0.689	0.739	0.718	2.6
Bromochloromethane	0.499	0.475	0.516	0.475	0.487	0.486	0.490	3.2
Chloroform	1.275	1.245	1.229	1.174	1.154	1.250	1.221	3.8
1,1,1-Trichloroethane	0.938	0.907	0.901	0.847	0.839	0.917	0.891	4.5
Methylcyclohexane	0.486	0.525	0.517	0.550	0.538	0.617	0.539	8.2
Benzene	1.381	1.421	1.411	1.363	1.334	1.525	1.406	4.7
1,2-Dichloroethane	0.492	0.494	0.476	0.471	0.466	0.524	0.487	4.4
Trichloroethene	0.350	0.359	0.352	0.343	0.343	0.374	0.354	3.3
1,2-Dichloropropane	0.338	0.344	0.337	0.323	0.322	0.370	0.339	5.2
Bromodichloromethane	0.520	0.536	0.527	0.531	0.533	0.593	0.540	4.9
4-Methyl-2-Pentanone	0.260	0.279	0.281	0.304	0.294	0.317	0.289	6.9
Toluene	0.890	0.920	0.912	0.902	0.879	1.010	0.919	5.1

* 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	RRF100	RRF150	RRF050	RRF	% RSD	
t-1,3-Dichloropropene	0.403	0.446	0.451	0.511	0.510	0.538	0.477	10.7	
cis-1,3-Dichloropropene	0.494	0.519	0.523	0.559	0.555	0.613	0.544	7.6	
1,1,2-Trichloroethane	0.306	0.314	0.311	0.305	0.298	0.322	0.309	2.7	
2-Hexanone	0.173	0.189	0.191	0.218	0.212	0.223	0.201	9.8	
Dibromochloromethane	0.351	0.360	0.364	0.380	0.375	0.414	0.374	6	
1,2-Dibromoethane	0.283	0.309	0.294	0.302	0.303	0.333	0.304	5.5	
Tetrachloroethene	0.318	0.332	0.342	0.322	0.308	0.353	0.329	5	
Chlorobenzene	1.137	1.132	1.194	1.107	1.069	1.190	1.138	4.2	
Ethyl Benzene	1.676	1.823	1.920	1.880	1.862	2.027	1.865	6.2	
m/p-Xylenes	0.627	0.700	0.751	0.730	0.699	0.798	0.718	8	
o-Xylene	0.581	0.659	0.695	0.688	0.699	0.752	0.679	8.4	
Styrene	1.006	1.160	1.246	1.223	1.221	1.324	1.197	9	
Bromoform	0.203	0.212	0.216	0.230	0.238	0.237	0.223	6.5	
Isopropylbenzene	2.833	3.266	3.258	3.570	3.666	3.788	3.397	10.3	
1,1,2,2-Tetrachloroethane	0.778	0.800	0.774	0.814	0.827	0.851	0.807	3.7	
1,3-Dichlorobenzene	1.661	1.817	1.681	1.710	1.698	1.899	1.744	5.3	
1,4-Dichlorobenzene	1.723	1.810	1.714	1.656	1.759	1.828	1.748	3.7	
1,2-Dichlorobenzene	1.511	1.515	1.603	1.536	1.539	1.561	1.544	2.2	
1,2-Dibromo-3-Chloropropane	0.133	0.128	0.139	0.154	0.156	0.146	0.143	8	
1,2,4-Trichlorobenzene	0.870	0.994	0.991	0.963	1.015	1.087	0.987	7.2	
1,2,3-Trichlorobenzene	0.832	0.916	0.886	0.938	0.965	0.968	0.918	5.7	
1,2-Dichloroethane-d4	0.752	0.715	0.723	0.690	0.713	0.697	0.715	3.1	
Dibromofluoromethane	0.367	0.350	0.347	0.335	0.346	0.360	0.351	3.2	
Toluene-d8	1.173	1.215	1.235	1.191	1.253	1.322	1.231	4.3	
4-Bromofluorobenzene	0.448	0.431	0.450	0.447	0.468	0.489	0.455	4.5	

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