

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: <u>Alliance</u>	Contract: <u>GENV01</u>
Lab Code: <u>ACE</u>	SDG No.: <u>Q3058</u>
Instrument ID: <u>MSVOA_N</u>	Calibration Date(s): <u>08/21/2025</u> <u>08/21/2025</u>
Heated Purge: (Y/N) <u>N</u>	Calibration Time(s): <u>12:09</u> <u>14:44</u>
GC Column: <u>RXI-624</u> ID: <u>0.25</u> (mm)	

LAB FILE ID:		RRF001 = VN087619.D		RRF005 = VN087620.D		RRF020 = VN087621.D			
		RRF050 = VN087622.D		RRF100 = VN087623.D		RRF150 = VN087624.D			
COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.707	0.579	0.606	0.810	0.777	0.782	0.710	13.7	
Chloromethane	0.739	0.637	0.710	0.795	0.752	0.747	0.730	7.3	
Vinyl Chloride	0.909	0.739	0.832	0.903	0.847	0.846	0.846	7.3	
Bromomethane		0.388	0.393	0.448	0.466	0.488	0.437	10.2	
Chloroethane	0.727	0.528	0.599	0.603	0.558	0.554	0.595	11.9	
Trichlorofluoromethane	1.323	1.139	1.242	1.274	1.227	1.233	1.240	4.9	
1,1,2-Trichlorotrifluoroethane	0.879	0.648	0.677	0.695	0.654	0.656	0.701	12.6	
1,1-Dichloroethene	0.892	0.649	0.730	0.700	0.667	0.687	0.721	12.3	
Acetone	0.633	0.634	0.584	0.522	0.484	0.489	0.558	12.3	
Carbon Disulfide	2.272	1.746	1.970	2.003	1.937	1.979	1.985	8.5	
Methyl tert-butyl Ether	2.859	2.508	2.740	2.733	2.643	2.742	2.704	4.4	
Methyl Acetate	1.450	1.043	1.097	1.157	1.117	1.141	1.168	12.3	
Methylene Chloride	1.494	0.916	0.875	0.823	0.779	0.799	0.948	28.8	
trans-1,2-Dichloroethene	0.952	0.734	0.768	0.750	0.737	0.745	0.781	10.8	
1,1-Dichloroethane	1.798	1.500	1.549	1.501	1.454	1.471	1.546	8.3	
Cyclohexane		1.490	1.310	1.234	1.201	1.207	1.289	9.4	
2-Butanone	0.783	0.722	0.757	0.732	0.700	0.707	0.734	4.3	
Carbon Tetrachloride	0.571	0.509	0.568	0.542	0.549	0.542	0.547	4.1	
cis-1,2-Dichloroethene	0.997	0.916	0.937	0.941	0.908	0.905	0.934	3.7	
Bromochloromethane	0.800	0.781	0.722	0.701	0.748	0.731	0.747	5	
Chloroform	1.677	1.535	1.629	1.579	1.519	1.528	1.578	4	
1,1,1-Trichloroethane	1.510	1.297	1.359	1.303	1.265	1.288	1.337	6.8	
Methylcyclohexane	0.686	0.580	0.610	0.590	0.597	0.596	0.610	6.3	
Benzene	1.853	1.637	1.727	1.684	1.639	1.652	1.699	4.9	
1,2-Dichloroethane	0.714	0.627	0.675	0.650	0.624	0.626	0.653	5.5	
Trichloroethene	0.435	0.387	0.390	0.377	0.367	0.370	0.388	6.5	
1,2-Dichloropropane	0.544	0.435	0.447	0.433	0.415	0.412	0.448	11	
Dibromomethane	0.351	0.294	0.327	0.318	0.310	0.312	0.319	6.1	
Bromodichloromethane	0.686	0.649	0.667	0.638	0.638	0.639	0.653	3	
4-Methyl-2-Pentanone	0.701	0.675	0.744	0.736	0.718	0.704	0.713	3.5	

* 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	1.148	0.987	1.062	1.050	1.037	1.033	1.053	5
t-1,3-Dichloropropene	0.620	0.628	0.691	0.703	0.699	0.715	0.676	6.1
cis-1,3-Dichloropropene	0.717	0.640	0.712	0.718	0.714	0.710	0.702	4.3
1,1,2-Trichloroethane	0.439	0.383	0.417	0.408	0.400	0.397	0.407	4.7
2-Hexanone	0.295	0.390	0.493	0.510	0.508	0.507	0.451	19.8
1,2-Dibromoethane	0.412	0.433	0.444	0.432	0.429	0.427	0.430	2.4
Tetrachloroethene	0.447	0.353	0.340	0.313	0.315	0.313	0.347	14.9
Chlorobenzene	1.408	1.164	1.253	1.210	1.216	1.212	1.244	6.9
Ethyl Benzene	2.232	1.993	2.224	2.144	2.152	2.178	2.154	4
m/p-Xylenes	0.759	0.735	0.811	0.812	0.808	0.814	0.790	4.3
o-Xylene	0.777	0.707	0.794	0.796	0.788	0.784	0.774	4.3
Styrene	1.142	1.086	1.391	1.382	1.386	1.393	1.297	11
Bromoform	0.303	0.285	0.320	0.320	0.336	0.336	0.317	6.3
Isopropylbenzene	4.328	3.674	4.096	4.026	3.998	4.120	4.040	5.3
1,1,2,2-Tetrachloroethane	1.488	1.381	1.421	1.363	1.322	1.371	1.391	4.1
1,3-Dichlorobenzene	2.087	1.770	1.940	1.827	1.806	1.826	1.876	6.3
1,4-Dichlorobenzene	2.348	1.884	1.956	1.867	1.818	1.841	1.952	10.2
1,2-Dichlorobenzene	1.942	1.662	1.853	1.755	1.723	1.743	1.780	5.7
1,2-Dibromo-3-Chloropropane	0.370	0.323	0.329	0.317	0.313	0.330	0.330	6.2
1,2,4-Trichlorobenzene	1.192	0.995	1.081	1.026	1.040	1.079	1.069	6.4
1,2,3-Trichlorobenzene	1.140	0.972	1.059	1.006	1.019	1.072	1.045	5.7
1,2-Dichloroethane-d4		1.025	1.016	0.959	1.035	1.089	1.024	4.5
Dibromofluoromethane		0.369	0.344	0.334	0.373	0.386	0.361	6
Toluene-d8		1.384	1.266	1.223	1.408	1.475	1.351	7.7
4-Bromofluorobenzene		0.446	0.454	0.450	0.514	0.540	0.481	9

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