

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance

Contract: ROMA02

Lab Code: ACE

SDG No.: Q3604

Instrument ID: MSVOA_W

Calibration Date(s): 11/10/2025 11/10/2025

Heated Purge: (Y/N) Y

Calibration Time(s): 15:11 17:00

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

LAB FILE ID:		RRF005 = VW032406.D		RRF010 = VW032407.D		RRF020 = VW032408.D			
		RRF050 = VW032409.D		RRF100 = VW032410.D		RRF150 = VW032411.D			
COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	RRF	% RSD	
Dichlorodifluoromethane	0.288	0.282	0.231	0.248	0.243	0.230	0.254	10	
Chloromethane	0.476	0.439	0.408	0.408	0.438	0.440	0.435	5.8	
Vinyl Chloride	0.591	0.567	0.525	0.538	0.543	0.528	0.549	4.6	
Bromomethane	0.402	0.371	0.350	0.358	0.364	0.358	0.367	5.1	
Chloroethane	0.382	0.361	0.340	0.355	0.362	0.354	0.359	3.9	
Trichlorofluoromethane	0.420	0.416	0.392	0.459	0.442	0.452	0.430	5.9	
1,1,2-Trichlorotrifluoroethane	0.506	0.495	0.438	0.467	0.458	0.449	0.469	5.6	
1,1-Dichloroethene	0.576	0.541	0.506	0.540	0.539	0.523	0.537	4.3	
Acetone	0.216	0.194	0.183	0.186	0.190	0.188	0.193	6.3	
Carbon Disulfide	1.604	1.574	1.497	1.608	1.644	1.603	1.588	3.1	
Methyl tert-butyl Ether	1.186	1.163	1.107	1.139	1.126	1.076	1.133	3.5	
Methyl Acetate	0.486	0.494	0.459	0.463	0.476	0.487	0.478	2.9	
Methylene Chloride	0.789	0.741	0.682	0.640	0.658	0.629	0.690	9.1	
trans-1,2-Dichloroethene	0.646	0.619	0.596	0.603	0.624	0.598	0.615	3.1	
1,1-Dichloroethane	1.217	1.156	1.091	1.148	1.168	1.138	1.153	3.5	
Cyclohexane	1.236	1.141	1.016	1.027	1.003	0.976	1.066	9.5	
2-Butanone	0.292	0.288	0.282	0.280	0.284	0.278	0.284	1.9	
Carbon Tetrachloride	0.392	0.398	0.386	0.399	0.386	0.391	0.392	1.4	
cis-1,2-Dichloroethene	0.764	0.727	0.713	0.729	0.748	0.723	0.734	2.5	
Bromochloromethane	0.606	0.563	0.533	0.502	0.538	0.527	0.545	6.6	
Chloroform	1.164	1.165	1.089	1.109	1.141	1.103	1.129	2.9	
1,1,1-Trichloroethane	0.831	0.820	0.776	0.817	0.817	0.777	0.806	2.9	
Methylcyclohexane	0.560	0.575	0.562	0.598	0.562	0.572	0.571	2.5	
Benzene	1.410	1.473	1.410	1.437	1.413	1.380	1.420	2.2	
1,2-Dichloroethane	0.425	0.423	0.416	0.421	0.409	0.409	0.417	1.7	
Trichloroethene	0.336	0.340	0.327	0.335	0.323	0.323	0.331	2.2	
1,2-Dichloropropane	0.356	0.360	0.354	0.356	0.350	0.346	0.354	1.4	
Bromodichloromethane	0.460	0.469	0.456	0.482	0.481	0.482	0.471	2.5	
4-Methyl-2-Pentanone	0.304	0.329	0.330	0.336	0.317	0.311	0.321	3.9	
Toluene	0.875	0.896	0.870	0.894	0.870	0.859	0.877	1.7	

* 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	0.445	0.481	0.469	0.504	0.508	0.507	0.486	5.2	
cis-1,3-Dichloropropene	0.531	0.553	0.556	0.579	0.576	0.574	0.562	3.2	
1,1,2-Trichloroethane	0.288	0.283	0.282	0.293	0.278	0.277	0.284	2.1	
2-Hexanone	0.223	0.245	0.241	0.244	0.231	0.226	0.235	4	
Dibromochloromethane	0.306	0.317	0.314	0.320	0.320	0.322	0.317	1.9	
1,2-Dibromoethane	0.261	0.292	0.279	0.281	0.272	0.272	0.276	3.8	
Tetrachloroethene	0.298	0.304	0.285	0.300	0.303	0.287	0.296	2.8	
Chlorobenzene	1.087	1.088	1.042	1.133	1.093	1.023	1.078	3.7	
Ethyl Benzene	1.875	1.853	1.822	1.944	1.915	1.779	1.865	3.2	
m/p-Xylenes	0.692	0.713	0.679	0.732	0.708	0.677	0.700	3	
o-Xylene	0.668	0.659	0.662	0.682	0.699	0.653	0.670	2.5	
Styrene	1.104	1.146	1.132	1.208	1.212	1.118	1.153	4	
Bromoform	0.187	0.201	0.193	0.203	0.205	0.196	0.198	3.5	
Isopropylbenzene	3.523	3.562	3.511	3.968	3.781	3.689	3.672	4.9	
1,1,2,2-Tetrachloroethane	0.886	0.869	0.845	0.927	0.871	0.831	0.871	3.8	
1,3-Dichlorobenzene	1.665	1.630	1.620	1.721	1.659	1.596	1.648	2.7	
1,4-Dichlorobenzene	1.776	1.680	1.644	1.774	1.658	1.602	1.689	4.2	
1,2-Dichlorobenzene	1.547	1.528	1.464	1.545	1.509	1.488	1.513	2.2	
1,2-Dibromo-3-Chloropropane	0.145	0.146	0.145	0.159	0.152	0.154	0.150	3.8	
1,2,4-Trichlorobenzene	0.943	0.917	0.923	1.032	0.972	0.992	0.963	4.6	
1,2,3-Trichlorobenzene	0.892	0.831	0.836	0.901	0.880	0.906	0.874	3.8	
1,2-Dichloroethane-d4	0.691	0.654	0.647	0.605	0.640	0.630	0.645	4.4	
Dibromofluoromethane	0.314	0.302	0.305	0.287	0.297	0.291	0.299	3.3	
Toluene-d8	1.171	1.176	1.152	1.130	1.136	1.125	1.148	1.9	
4-Bromofluorobenzene	0.444	0.444	0.454	0.415	0.426	0.421	0.434	3.6	

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