284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: GENV01

Lab Code: ACE SDG No.: Q3426

Instrument ID: MSVOA_N Calibration Date(s): 10/23/2025 10/23/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:42 12:02

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

LAB FILE ID: RRF001 = VN088078.D RRF005 = VN088079.D RRF020 = VN088080.D
RRF050 = VN088081.D RRF100 = VN088082.D RRF150 = VN088083.D

COMPOUND	RRF001	RRF005	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.606	0.645	0.594	0.458	0.493	0.588	0.564	12.8
Chloromethane	0.782	0.707	0.725	0.519	0.579	0.669	0.664	14.7
Vinyl Chloride	0.801	0.784	0.787	0.581	0.639	0.746	0.723	12.6
Bromomethane		0.527	0.485	0.341	0.389	0.420	0.432	17.2
Chloroethane	0.598	0.601	0.558	0.413	0.447	0.509	0.521	15.2
Trichlorofluoromethane	1.199	1.317	1.246	0.955	1.031	1.171	1.153	11.8
1,1,2-Trichlorotrifluoroethane	0.637	0.632	0.612	0.476	0.561	0.653	0.595	11.2
Tert butyl alcohol		0.164	0.170	0.116	0.151	0.144	0.149	14.2
1,1-Dichloroethene	0.806	0.686	0.631	0.462	0.547	0.637	0.628	18.7
Acetone	0.563	0.441	0.440	0.319	0.411	0.431	0.434	17.9
Carbon Disulfide	2.143	2.041	1.984	1.483	1.917	1.895	1.910	11.9
Methyl tert-butyl Ether	2.356	2.498	2.493	1.790	2.370	2.342	2.308	11.4
Methyl Acetate	0.982	0.910	0.980	0.688	0.896	0.880	0.889	12.1
Methylene Chloride	0.894	0.774	0.775	0.540	0.708	0.684	0.729	16.2
trans-1,2-Dichloroethene	0.820	0.716	0.715	0.536	0.673	0.678	0.690	13.3
1,1-Dichloroethane	1.371	1.432	1.418	1.026	1.142	1.312	1.283	12.8
Cyclohexane		1.488	1.301	0.965	1.055	1.243	1.210	17.1
2-Butanone	0.615	0.616	0.639	0.465	0.516	0.584	0.572	11.8
Carbon Tetrachloride	0.544	0.525	0.538	0.417	0.470	0.546	0.507	10.3
cis-1,2-Dichloroethene	0.884	0.892	0.868	0.626	0.694	0.800	0.794	13.9
Bromochloromethane	0.608	0.669	0.549	0.589	0.596	0.627	0.606	6.6
Chloroform	1.334	1.433	1.405	1.040	1.162	1.318	1.282	11.8
1,1,1-Trichloroethane	1.293	1.230	1.241	0.912	1.014	1.160	1.142	13
Methylcyclohexane	0.701	0.649	0.634	0.524	0.578	0.698	0.630	11
Benzene	1.621	1.577	1.609	1.216	1.372	1.566	1.494	10.9
1,2-Dichloroethane	0.552	0.572	0.590	0.436	0.480	0.554	0.531	11.2
Trichloroethene	0.375	0.374	0.374	0.284	0.318	0.369	0.349	11.1
1,2-Dichloropropane	0.420	0.408	0.397	0.306	0.340	0.391	0.377	11.7
Bromodichloromethane	0.561	0.570	0.589	0.439	0.499	0.573	0.538	10.8
4-Methyl-2-Pentanone	0.548	0.600	0.647	0.485	0.552	0.620	0.575	10.2

* 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	$\overline{RRF}$	% RSD
Toluene	0.971	0.958	0.991	0.755	0.862	0.989	0.921	10.2
t-1,3-Dichloropropene	0.554	0.576	0.618	0.479	0.559	0.652	0.573	10.4
cis-1,3-Dichloropropene	0.615	0.622	0.652	0.501	0.587	0.671	0.608	9.9
1,1,2-Trichloroethane	0.421	0.348	0.374	0.281	0.317	0.355	0.349	13.7
2-Hexanone	0.369	0.332	0.418	0.333	0.392	0.447	0.382	12.1
Dibromochloromethane	0.418	0.392	0.433	0.327	0.377	0.436	0.397	10.4
1,2-Dibromoethane	0.403	0.356	0.384	0.289	0.339	0.388	0.360	11.6
Tetrachloroethene	0.400	0.344	0.335	0.258	0.298	0.344	0.330	14.6
Chlorobenzene	1.197	1.208	1.205	0.941	1.053	1.208	1.135	9.9
Ethyl Benzene	2.069	2.066	2.123	1.649	1.873	2.177	1.993	9.9
m/p-Xylenes	0.733	0.774	0.804	0.635	0.708	0.827	0.747	9.4
o-Xylene	0.670	0.742	0.764	0.604	0.684	0.784	0.708	9.6
Styrene	0.946	1.204	1.276	1.011	1.165	1.325	1.154	12.9
Bromoform	0.268	0.274	0.294	0.233	0.276	0.320	0.278	10.4
Isopropylbenzene	4.189	3.857	4.067	3.173	3.580	4.272	3.856	10.8
1,1,2,2-Tetrachloroethane	1.304	1.258	1.336	0.957	1.080	1.270	1.201	12.4
1,2,4-Trimethylbenzene	3.242	3.316	3.465	2.700	3.012	3.491	3.204	9.4
1,3-Dichlorobenzene	1.777	1.673	1.822	1.380	1.535	1.773	1.660	10.3
1,4-Dichlorobenzene	2.065	1.953	1.863	1.399	1.582	1.836	1.783	13.9
1,2-Dichlorobenzene	1.768	1.652	1.678	1.291	1.469	1.744	1.600	11.5
1,2-Dibromo-3-Chloropropane	0.325	0.289	0.301	0.214	0.243	0.305	0.279	15.1
1,2,4-Trichlorobenzene	1.058	0.976	0.989	0.785	0.902	1.105	0.969	11.8
1,2,3-Trichlorobenzene	1.098	0.894	0.937	0.736	0.848	1.062	0.929	14.5
1,2-Dichloroethane-d4		0.914	0.915	0.799	0.822	0.872	0.865	6.1
Dibromofluoromethane		0.343	0.344	0.315	0.327	0.350	0.336	4.3
Toluene-d8		1.283	1.298	1.224	1.283	1.384	1.294	4.4
4-Bromofluorobenzene		0.435	0.457	0.439	0.466	0.488	0.457	4.8

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