284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: ALLI03

Lab Code: ACE SDG No.: Q3483

Instrument ID: MSVOA_Y Calibration Date(s): 11/04/2025 11/04/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:19 11:27

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

LAB FILE ID: RRF005 = VY023661.D RRF010 = VY023662.D RRF020 = VY023663.D
RRF050 = VY023664.D RRF100 = VY023665.D RRF150 = VY023666.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.391	0.380	0.373	0.275	0.284	0.266	0.328	17.9
Chloromethane	0.537	0.510	0.489	0.413	0.424	0.382	0.459	13.4
Vinyl Chloride	0.680	0.662	0.633	0.547	0.556	0.508	0.598	11.7
Ethyl Acetate	0.158	0.151	0.161	0.155	0.173	0.172	0.162	5.6
Isopropyl Acetate	0.280	0.267	0.306	0.295	0.336	0.338	0.304	9.6
Bromomethane	0.587	0.555	0.530	0.443	0.464	0.437	0.503	12.5
Chloroethane	0.458	0.455	0.432	0.386	0.393	0.354	0.413	10.1
Tetrahydrofuran	0.061	0.059	0.068	0.062	0.072	0.070	0.065	8.6
Trichlorofluoromethane	0.937	0.908	0.887	0.780	0.782	0.756	0.842	9.2
1,1,2-Trichlorotrifluoroethane	0.519	0.506	0.471	0.433	0.439	0.414	0.464	9.1
Tert butyl alcohol	0.035	0.027	0.027	0.023	0.026	0.027	0.028	15.1
Diethyl Ether	0.232	0.228	0.232	0.212	0.230	0.219	0.226	3.6
1,1-Dichloroethene	0.476	0.462	0.462	0.421	0.441	0.419	0.447	5.2
Acrolein	0.041	0.036	0.039	0.030	0.034	0.033	0.035	12
Acrylonitrile	0.087	0.079	0.090	0.081	0.092	0.089	0.086	5.8
Acetone	0.115	0.106	0.115	0.094	0.105	0.102	0.106	7.4
Carbon Disulfide	1.479	1.468	1.424	1.288	1.330	1.237	1.371	7.3
Methyl tert-butyl Ether	0.980	0.945	1.059	1.008	1.132	1.091	1.036	6.8
Methyl Acetate	0.221	0.206	0.292	0.210	0.256	0.218	0.234	14.4
Methylene Chloride	0.652	0.532	0.515	0.460	0.476	0.436	0.512	15.1
trans-1,2-Dichloroethene	0.512	0.515	0.519	0.487	0.510	0.479	0.504	3.3
Vinyl Acetate	0.585	0.589	0.631	0.652	0.716	0.706	0.647	8.7
1,1-Dichloroethane	0.855	0.818	0.822	0.775	0.813	0.760	0.807	4.3
Cyclohexane	0.789	0.719	0.692	0.662	0.695	0.660	0.703	6.8
2-Butanone	0.128	0.113	0.130	0.111	0.127	0.127	0.123	6.8
Carbon Tetrachloride	0.516	0.491	0.501	0.477	0.494	0.473	0.492	3.2
2,2-Dichloropropane	0.799	0.758	0.742	0.709	0.739	0.708	0.742	4.6
cis-1,2-Dichloroethene	0.571	0.582	0.574	0.560	0.599	0.564	0.575	2.4
Bromochloromethane	0.317	0.329	0.329	0.290	0.311	0.279	0.309	6.7
Chloroform	0.957	0.934	0.919	0.863	0.898	0.833	0.901	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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Instrument ID: MSVOA_Y Calibration Date(s): 11/04/2025 11/04/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:19 11:27

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

LAB FILE ID: RRF005 = VY023661.D RRF010 = VY023662.D RRF020 = VY023663.D
RRF050 = VY023664.D RRF100 = VY023665.D RRF150 = VY023666.D

COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
1,1,1-Trichloroethane	0.852	0.833	0.820	0.769	0.803	0.753	0.805	4.7
Methylcyclohexane	0.499	0.495	0.536	0.539	0.569	0.563	0.534	5.8
1,1-Dichloropropene	0.426	0.416	0.427	0.409	0.422	0.405	0.418	2.1
Benzene	1.323	1.322	1.355	1.287	1.345	1.265	1.316	2.6
1,2-Dichloroethane	0.343	0.331	0.344	0.321	0.339	0.320	0.333	3.3
Trichloroethene	0.398	0.383	0.387	0.366	0.377	0.358	0.378	3.8
1,2-Dichloropropane	0.294	0.285	0.300	0.284	0.297	0.283	0.290	2.6
Dibromomethane	0.183	0.172	0.191	0.173	0.185	0.176	0.180	4.2
Bromodichloromethane	0.456	0.442	0.471	0.444	0.469	0.441	0.454	3
4-Methyl-2-Pentanone	0.143	0.136	0.170	0.158	0.181	0.180	0.162	11.8
Methyl methacrylate	0.119	0.117	0.146	0.146	0.165	0.169	0.143	15.3
Toluene	0.761	0.813	0.874	0.854	0.898	0.842	0.840	5.7
t-1,3-Dichloropropene	0.346	0.349	0.389	0.387	0.426	0.407	0.384	8.2
cis-1,3-Dichloropropene	0.419	0.434	0.475	0.463	0.495	0.474	0.460	6.1
1,1,2-Trichloroethane	0.244	0.230	0.250	0.234	0.249	0.236	0.241	3.5
1,3-Dichloropropane	0.375	0.363	0.401	0.376	0.399	0.376	0.381	3.9
2-Chloroethyl Vinyl ether	0.094	0.097	0.119	0.127	0.146	0.146	0.122	18.7
2-Hexanone	0.101	0.099	0.127	0.115	0.132	0.133	0.118	12.9
Dibromochloromethane	0.325	0.314	0.342	0.326	0.347	0.329	0.330	3.7
1,2-Dibromoethane	0.221	0.208	0.240	0.222	0.238	0.226	0.226	5.3
Tetrachloroethene	0.554	0.549	0.545	0.512	0.500	0.462	0.520	6.9
Chlorobenzene	1.096	1.095	1.109	1.067	1.107	1.057	1.089	2
1,1,1,2-Tetrachloroethane	0.396	0.380	0.387	0.377	0.394	0.376	0.385	2.3
Hexachloroethane	0.657	0.656	0.632	0.639	0.664	0.648	0.649	1.8
Ethyl Benzene	1.589	1.661	1.787	1.807	1.908	1.819	1.762	6.6
m/p-Xylenes	0.618	0.671	0.722	0.727	0.757	0.727	0.704	7.1
o-Xylene	0.562	0.600	0.659	0.674	0.717	0.691	0.651	9
Styrene	0.903	0.979	1.110	1.121	1.184	1.145	1.074	10.1
Bromoform	0.222	0.209	0.230	0.219	0.238	0.231	0.225	4.5
Isopropylbenzene	2.940	3.203	3.298	3.461	3.641	3.521	3.344	7.6

* Compounds with required minimum RRF and maximum %RSD values.
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COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
1,1,2,2-Tetrachloroethane	0.553	0.494	0.522	0.503	0.569	0.564	0.534	6
1,2,3-Trichloropropane	0.403	0.453	0.410	0.373	0.397	0.391	0.405	6.6
Bromobenzene	0.837	0.855	0.850	0.862	0.915	0.885	0.867	3.2
n-propylbenzene	3.526	3.781	3.927	4.085	4.205	4.076	3.934	6.3
2-Chlorotoluene	2.100	2.244	2.288	2.325	2.407	2.332	2.283	4.6
1,3,5-Trimethylbenzene	2.330	2.604	2.734	2.834	2.943	2.857	2.717	8.2
4-Chlorotoluene	2.193	2.325	2.382	2.387	2.455	2.383	2.354	3.8
tert-Butylbenzene	2.172	2.326	2.402	2.558	2.717	2.674	2.475	8.6
1,2,4-Trimethylbenzene	2.248	2.601	2.701	2.819	2.931	2.846	2.691	9.1
sec-Butylbenzene	3.176	3.473	3.539	3.675	3.830	3.722	3.569	6.5
p-Isopropyltoluene	2.577	2.830	3.007	3.166	3.291	3.258	3.022	9.2
1,3-Dichlorobenzene	1.680	1.703	1.714	1.694	1.744	1.709	1.707	1.3
1,4-Dichlorobenzene	1.752	1.685	1.666	1.652	1.679	1.630	1.677	2.5
n-Butylbenzene	2.293	2.441	2.557	2.752	2.877	2.844	2.627	8.9
1,2-Dichlorobenzene	1.468	1.467	1.488	1.454	1.494	1.457	1.471	1.1
1,2-Dibromo-3-Chloropropane	0.085	0.076	0.083	0.076	0.086	0.086	0.082	5.7
1,2,4-Trichlorobenzene	0.738	0.747	0.835	0.853	0.933	0.944	0.842	10.5
Hexachlorobutadiene	0.561	0.551	0.538	0.552	0.560	0.546	0.551	1.6
Naphthalene	0.956	0.948	1.187	1.298	1.546	1.610	1.257	22.5
1,2,3-Trichlorobenzene	0.619	0.611	0.698	0.717	0.782	0.791	0.703	10.9
1,2-Dichloroethane-d4	0.468	0.425	0.426	0.407	0.425	0.407	0.427	5.3
Dibromofluoromethane	0.312	0.316	0.312	0.310	0.318	0.308	0.312	1.2
Toluene-d8	1.109	1.148	1.155	1.189	1.224	1.159	1.164	3.3
4-Bromofluorobenzene	0.354	0.354	0.379	0.388	0.400	0.385	0.376	5
N-amyl acetate	0.455	0.481	0.523	0.577	0.663	0.698	0.566	17.4
Methyl Iodide	0.491	0.546	0.558	0.573	0.585	0.533	0.548	6.1
Allyl chloride	0.530	0.534	0.549	0.527	0.577	0.545	0.544	3.4
trans-1,4-Dichloro-2-butene	0.173	0.169	0.172	0.172	0.192	0.196	0.179	6.6
Methacrylonitrile	0.083	0.079	0.086	0.084	0.098	0.100	0.088	9.7
Diisopropyl ether	1.097	1.167	1.263	1.222	1.305	1.215	1.212	6

* Compounds with required minimum RRF and maximum %RSD values.
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COMPOUND	RRF005	RRF010	RRF020	RRF050	RRF100	RRF150	$\overline{RRF}$	% RSD
1,4-Dioxane	1.791	1.574	1.861	1.800	1.992	2.033	1.842	8.9

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