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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: RTPE01

Lab Code: ACE SDG No.: Q3557

Instrument ID: MSVOA_L Calibration Date(s): 10/14/2025 10/14/2025

Heated Purge: (Y/N) N Calibration Time(s): 10:31 14:18

GC Column: RTX-1 ID: 0.32 (mm)

LAB FILE ID: RRF010 = VL043105.D RRF002 = VL043106.D RRF001 = VL043107.D
RRF0.5 = VL043108.D RRF0.1 = VL043109.D RRF.03 = VL043110.D

COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	1.278	1.481	1.527	1.545			1.422	9.4
Chloromethane	0.500	0.579	0.621	0.640			0.563	12.9
Vinyl Chloride	0.481	0.528	0.557	0.562	0.554	0.723	0.552	15.3
Bromomethane	0.260	0.317	0.338	0.336			0.303	12.8
Chloroethane	0.192	0.238	0.256	0.261			0.226	16
Tetrahydrofuran	0.343	0.384	0.394	0.427			0.376	10.3
Trichlorofluoromethane	1.242	1.477	1.459	1.510			1.391	9.1
1,1,2-Trichlorotrifluoroethane	0.976	1.191	1.220	1.215			1.120	11
Dichlorotetrafluoroethane	1.040	1.230	1.265	1.175			1.149	9.3
tert-Butyl alcohol	1.689	1.934	2.047	2.010			1.850	11.3
Heptane	1.803	2.032	2.151	2.184			1.964	11.7
1,1-Dichloroethene	0.437	0.512	0.539	0.519			0.488	10.1
Acetone	1.091	1.508	1.522	1.561			1.348	18.6
Carbon Disulfide	1.315	1.505	1.540	1.423			1.411	8.3
Methyl tert-Butyl Ether	0.587	0.769	0.767	0.742			0.701	11.9
Methylene Chloride	0.406	0.508	0.612	0.738			0.533	27
trans-1,2-Dichloroethene	0.511	0.594	0.696	0.609			0.583	13.4
1,1-Dichloroethane	1.031	1.190	1.237	1.169			1.127	9
Cyclohexane	1.214	1.390	1.448	1.493			1.344	10.5
2-Butanone	0.606	0.707	0.708	0.753			0.672	10.7
Carbon Tetrachloride	0.649	0.745	0.743	0.710	0.761	0.752	0.719	6
cis-1,2-Dichloroethene	1.405	1.516	1.594	1.491			1.471	6.6
Chloroform	2.030	2.296	2.397	2.437			2.232	9.2
1,1,1-Trichloroethane	2.136	2.424	2.439	2.407	2.605	2.165	2.324	8.3
2,2,4-Trimethylpentane	1.460	1.683	1.706	1.695			1.589	9.2
Benzene	0.871	1.023	0.980	0.974			0.942	7.6
1,2-Dichloroethane	0.485	0.565	0.571	0.589			0.543	8.5
Trichloroethene	0.342	0.398	0.402	0.401	0.421	0.460	0.393	11.4
1,2-Dichloropropane	0.317	0.371	0.370	0.359			0.344	9
Bromodichloromethane	0.697	0.791	0.775	0.779			0.751	5.7

* 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	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
4-Methyl-2-Pentanone	0.873	0.974	0.989	0.969			0.928	7.6
Toluene	1.036	1.176	1.162	1.212			1.118	8.3
t-1,3-Dichloropropene	0.462	0.506	0.502	0.478			0.480	4.9
cis-1,3-Dichloropropene	0.546	0.603	0.590	0.593			0.573	5.3
1,1,2-Trichloroethane	0.338	0.384	0.383	0.416			0.372	9.1
Dibromochloromethane	0.589	0.667	0.650	0.619			0.622	6
1,2-Dibromoethane	0.533	0.617	0.586	0.570	0.662		0.582	8.8
Tetrachloroethene	0.312	0.353	0.366	0.349	0.345	0.354	0.340	7.3
Chlorobenzene	0.849	1.000	1.009	1.010			0.936	10.5
Ethyl Benzene	1.599	1.824	1.815	1.801			1.716	7.8
m/p-Xylene	1.238	1.476	1.457	1.463			1.369	9.7
o-Xylene	1.224	1.454	1.471	1.433			1.352	10.3
Styrene	0.578	0.664	0.649	0.597			0.610	7.2
Bromoform	0.487	0.544	0.515	0.503			0.505	5.1
1,1,2,2-Tetrachloroethane	0.777	0.933	0.924	0.900	1.019	1.029	0.905	11.8
2-Chlorotoluene	1.698	2.018	1.997	1.959			1.863	9.5
1,3,5-Trimethylbenzene	1.261	1.477	1.466	1.434			1.371	9
1,2,4-Trimethylbenzene	1.331	1.664	1.707	1.691			1.534	13.7
1,3-Dichlorobenzene	0.818	1.000	0.956	0.903			0.890	10.6
1,4-Dichlorobenzene	0.823	0.971	0.957	0.957			0.897	10
1,2-Dichlorobenzene	0.766	0.914	0.954	0.944			0.861	12.4
1,2,4-Trichlorobenzene	0.638	0.803	0.726	0.553			0.666	14.9
Hexachloro-1,3-Butadiene	0.555	0.746	0.764	0.751			0.667	18.1
1,3-Butadiene	0.552	0.649	0.700	0.780			0.642	16.1
Naphthalene	1.580	1.971	1.766	1.532	1.265		1.604	15
4-Ethyltoluene	1.530	1.805	1.761	1.741			1.662	9
1-Bromo-4-Fluorobenzene	0.781	0.779	0.770	0.768	0.780	0.765	0.777	1.4
Hexane	1.406	1.548	1.677	1.753			1.540	11.8
Allyl Chloride	0.910	1.040	1.049	1.097			0.993	9.9
1,4-Dioxane	141.025	161.866	165.909	166.217			154.080	9.6

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COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{\text{RRF}}$	% RSD
Methyl Methacrylate	0.450	0.493	0.511	0.500			0.478	6.9

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