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

Lab Name: Alliance Contract: ALLI03

Lab Code: ACE SDG No.: Q2727

Instrument ID: MSVOA_L Calibration Date(s): 08/13/2025 08/13/2025

Heated Purge: (Y/N) N Calibration Time(s): 08:30 12:06

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

LAB FILE ID: RRF010 = VL042842.D RRF002 = VL042843.D RRF001 = VL042844.D
RRF0.5 = VL042845.D RRF0.1 = VL042846.D RRF.03 = VL042847.D

COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Chlorodifluoromethane	0.486	0.548	0.520	0.561			0.519	6.9
Dichlorodifluoromethane	1.343	1.511	1.525	1.566			1.466	6.6
Ethanol	0.046	0.070	0.069	0.089			0.064	27.9
Chloromethane	0.533	0.606	0.618	0.648			0.591	8.1
Vinyl Chloride	0.502	0.550	0.559	0.593	0.639	0.728	0.582	13.7
Ethyl Acetate	2.932	3.324	3.346	3.491			3.202	8.2
Bromomethane	0.203	0.239	0.268	0.248			0.233	12.1
Chloroethane	0.202	0.219	0.240	0.266			0.227	11.5
Tetrahydrofuran	0.355	0.392	0.389	0.395			0.376	5.6
Trichlorofluoromethane	1.271	1.467	1.533	1.614			1.446	9.6
1,1,2-Trichlorotrifluoroethane	1.047	1.189	1.202	1.259			1.152	8
Dichlorotetrafluoroethane	1.122	1.245	1.235	1.274			1.199	6
Bromoethene	0.381	0.436	0.416	0.462			0.417	7.9
Propene	0.656	0.715	0.692	0.824			0.700	11.4
tert-Butyl alcohol	1.371	1.557	1.660	1.920			1.569	15.1
Heptane	1.718	1.917	2.011	2.009			1.874	8
Isopropyl Alcohol	0.649	0.799	0.847	0.976			0.790	16.8
1,1-Dichloroethene	0.469	0.532	0.509	0.552			0.507	7.2
Acetone	0.950	1.476	1.475	1.708			1.323	24.9
Carbon Disulfide	1.314	1.511	1.513	1.504			1.438	6.8
Methyl tert-Butyl Ether	0.661	0.817	0.747	0.833			0.754	9.6
Methylene Chloride	0.414	0.544	0.596	0.792			0.554	27.8
trans-1,2-Dichloroethene	0.537	0.604	0.613	0.630			0.586	7.1
Vinyl Acetate	1.663	1.849	1.733	2.161			1.819	11.2
1,1-Dichloroethane	1.040	1.185	1.223	1.317			1.171	9.4
Cyclohexane	1.214	1.340	1.283	1.425			1.296	6.9
2-Butanone	0.610	0.700	0.702	0.753			0.675	9.3
Carbon Tetrachloride	0.636	0.692	0.700	0.682	0.738	0.736	0.689	5.8
cis-1,2-Dichloroethene	1.346	1.524	1.524	1.625			1.476	8.1
Chloroform	1.932	2.166	2.183	2.299			2.110	7.3

* 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
1,1,1-Trichloroethane	1.999	2.215	2.148	2.209	2.528	2.448	2.230	8.7
2,2,4-Trimethylpentane	1.515	1.676	1.719	1.728			1.625	7.1
Benzene	0.912	0.990	0.978	1.013			0.958	5.3
1,2-Dichloroethane	0.483	0.503	0.516	0.512			0.500	2.9
Trichloroethene	0.399	0.453	0.448	0.501	0.448	0.416	0.437	8.3
1,2-Dichloropropane	0.324	0.356	0.365	0.378			0.350	6.8
Bromodichloromethane	0.708	0.777	0.742	0.786			0.745	4.8
4-Methyl-2-Pentanone	0.881	0.946	0.917	0.960			0.913	4.7
Toluene	1.072	1.160	1.181	1.219			1.138	6.1
t-1,3-Dichloropropene	0.428	0.456	0.464	0.450			0.445	3.7
cis-1,3-Dichloropropene	0.539	0.578	0.559	0.568			0.555	3.7
1,1,2-Trichloroethane	0.341	0.386	0.382	0.395			0.371	6.5
2-Hexanone	0.699	0.750	0.737	0.723			0.718	3.8
Dibromochloromethane	0.584	0.632	0.605	0.596			0.600	3.4
1,2-Dibromoethane	0.506	0.552	0.532	0.549	0.599		0.542	6.2
Tetrachloroethene	0.313	0.345	0.333	0.369	0.379	0.391	0.346	10.2
Chlorobenzene	0.878	0.994	0.990	1.026			0.951	7.7
Ethyl Benzene	1.636	1.838	1.866	1.854			1.765	6.8
m/p-Xylene	1.283	1.455	1.454	1.447			1.383	6.8
o-Xylene	1.266	1.445	1.472	1.532			1.391	9.3
Styrene	0.610	0.660	0.677	0.711			0.652	7.1
Bromoform	0.491	0.535	0.514	0.466			0.495	6.1
Isopropylbenzene	1.852	2.133	2.194	2.149			2.033	8.5
1,1,2,2-Tetrachloroethane	0.674	0.772	0.784	0.795	0.774	0.881	0.765	9.4
2-Chlorotoluene	1.418	1.641	1.719	1.709			1.579	9.8
1,3,5-Trimethylbenzene	1.293	1.512	1.535	1.548			1.434	9.4
1,2,4-Trimethylbenzene	1.394	1.698	1.706	1.710			1.574	11.3
1,3-Dichlorobenzene	0.831	0.967	0.946	0.937			0.895	8.6
1,4-Dichlorobenzene	0.833	0.978	0.946	0.966			0.905	8.9
1,2-Dichlorobenzene	0.781	0.947	0.956	0.937			0.876	11

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COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
1,2,4-Trichlorobenzene	0.661	0.855	0.797	0.623			0.717	14.2
Hexachloro-1,3-Butadiene	0.572	0.804	0.845	0.814			0.718	19.7
1,3-Butadiene	0.500	0.579	0.633	0.783			0.600	19.5
Naphthalene	1.315	1.746	1.647	1.383	1.174		1.427	15.5
4-Ethyltoluene	1.563	1.784	1.806	1.738			1.687	7.4
1-Bromo-4-Fluorobenzene	0.755	0.744	0.760	0.755	0.746	0.736	0.750	1.1
Hexane	1.392	1.522	1.552	1.557			1.478	6.2
Allyl Chloride	0.850	0.945	0.902	1.122			0.935	12
Benzyl Chloride	0.227	0.246	0.226	0.232			0.228	6.2
1,4-Dioxane	148.388	165.505	184.509	188.914			166.304	12.2
Methyl Methacrylate	0.368	0.415	0.402	0.427			0.394	7.3

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