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

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: Alliance Contract: GFEL01

Lab Code: ACE SDG No.: Q3111

Instrument ID: MSVOA_L Calibration Date(s): 09/22/2025 09/22/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:39 13:05

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

LAB FILE ID: RRF010 = VL042950.D RRF002 = VL042951.D RRF001 = VL042952.D
RRF0.5 = VL042953.D RRF0.1 = VL042954.D RRF.03 = VL042955.D

COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	1.248	1.401	1.452	1.391			1.345	7.3
Chloromethane	0.560	0.624	0.622	0.693			0.609	9.7
Vinyl Chloride	0.470	0.524	0.567	0.529	0.562	0.729	0.550	15.9
Bromomethane	0.166	0.200	0.215	0.224			0.194	13.8
Chloroethane	0.196	0.212	0.238	0.234			0.214	10.3
Tetrahydrofuran	0.389	0.419	0.407	0.427			0.403	5.6
Trichlorofluoromethane	1.199	1.346	1.376	1.354			1.297	6.6
1,1,2-Trichlorotrifluoroethane	0.963	1.068	1.117	1.130			1.050	7.5
Dichlorotetrafluoroethane	1.047	1.180	1.239	1.227			1.148	8.2
tert-Butyl alcohol	1.351	1.398	1.544	1.587			1.429	9.5
Heptane	1.870	1.961	2.060	2.102			1.946	7.6
1,1-Dichloroethene	0.446	0.485	0.503	0.549			0.486	8.9
Acetone	0.993	1.475	1.552	1.490			1.302	21.5
Carbon Disulfide	1.271	1.396	1.436	1.395			1.346	6.6
Methyl tert-Butyl Ether	0.638	0.742	0.773	0.953			0.780	14.6
Methylene Chloride	0.388	0.510	0.617	0.832			0.545	34.4
trans-1,2-Dichloroethene	0.507	0.556	0.612	0.589			0.552	9
1,1-Dichloroethane	0.993	1.109	1.172	1.147			1.083	7.8
Cyclohexane	1.193	1.280	1.333	1.312			1.255	6.2
2-Butanone	0.655	0.741	0.731	0.744			0.701	7.5
Carbon Tetrachloride	0.610	0.657	0.665	0.660	0.616	0.734	0.651	6.6
cis-1,2-Dichloroethene	1.357	1.465	1.464	1.443			1.406	5.3
Chloroform	1.848	2.038	2.042	2.078			1.962	6.4
1,1,1-Trichloroethane	1.902	2.071	2.164	2.017	2.087	2.724	2.119	13.5
2,2,4-Trimethylpentane	1.563	1.690	1.660	1.705			1.622	5.6
Benzene	0.898	0.972	0.970	0.974			0.939	4.8
1,2-Dichloroethane	0.470	0.507	0.517	0.502			0.494	4.3
Trichloroethene	0.426	0.452	0.467	0.481	0.495	0.527	0.467	8.2
1,2-Dichloropropane	0.327	0.356	0.361	0.344			0.343	4.8
Bromodichloromethane	0.681	0.702	0.699	0.689			0.688	2.1

* 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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COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
4-Methyl-2-Pentanone	0.934	0.988	0.949	0.928			0.939	3.5
Toluene	1.078	1.156	1.137	1.155			1.111	5
t-1,3-Dichloropropene	0.409	0.421	0.414	0.403			0.410	2
cis-1,3-Dichloropropene	0.523	0.537	0.528	0.522			0.522	2.6
1,1,2-Trichloroethane	0.344	0.371	0.377	0.382			0.362	5.7
Dibromochloromethane	0.571	0.600	0.586	0.572			0.580	2.4
1,2-Dibromoethane	0.490	0.525	0.520	0.520	0.520		0.510	3.5
Tetrachloroethene	0.325	0.351	0.355	0.356	0.404	0.436	0.363	11.8
Chlorobenzene	0.853	0.944	0.978	0.968			0.913	7.7
Ethyl Benzene	1.570	1.737	1.715	1.657			1.642	5.5
m/p-Xylene	1.225	1.361	1.365	1.332			1.295	6.3
o-Xylene	1.221	1.359	1.379	1.335			1.294	7
Styrene	0.602	0.648	0.619	0.605			0.612	3.9
Bromoform	0.508	0.534	0.507	0.477			0.504	4.2
1,1,2,2-Tetrachloroethane	0.610	0.673	0.675	0.688	0.722	0.806	0.680	10.7
2-Chlorotoluene	1.373	1.528	1.504	1.543			1.456	6.6
1,3,5-Trimethylbenzene	1.263	1.399	1.346	1.333			1.314	5.1
1,2,4-Trimethylbenzene	1.349	1.558	1.522	1.534			1.451	8.3
1,3-Dichlorobenzene	0.845	0.956	0.954	0.918			0.900	6.7
1,4-Dichlorobenzene	0.845	0.959	0.914	0.922			0.894	6.1
1,2-Dichlorobenzene	0.796	0.918	0.914	0.874			0.856	7.6
1,2,4-Trichlorobenzene	0.718	0.777	0.691	0.557			0.686	11.7
Hexachloro-1,3-Butadiene	0.575	0.728	0.742	0.755			0.670	14.8
1,3-Butadiene	0.520	0.607	0.675	0.751			0.614	16.4
Naphthalene	1.373	1.474	1.320	1.102	1.093		1.283	12
4-Ethyltoluene	1.523	1.703	1.686	1.715			1.621	6.9
1-Bromo-4-Fluorobenzene	0.763	0.747	0.743	0.749	0.738	0.736	0.746	1.2
Hexane	1.398	1.553	1.614	1.621			1.501	9.1
Allyl Chloride	0.857	0.966	0.971	0.904			0.907	6.7
1,4-Dioxane	147.887	162.799	172.031	172.980			159.404	9

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COMPOUND	RRF010	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	$\overline{RRF}$	% RSD
Methyl Methacrylate	0.368	0.396	0.396	0.406			0.384	5.6

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All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.