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): 09/17/2025 09/17/2025

Heated Purge: (Y/N) N Calibration Time(s): 10:48 14:17

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

LAB FILE ID: RRF002 = VL042930.D RRF001 = VL042931.D RRF0.5 = VL042932.D
RRF0.1 = VL042933.D RRF.03 = VL042934.D RRF010 = VL042935.D

COMPOUND	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF010	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	1.419	1.446	1.465			1.445	1.428	2.7
Chloromethane	0.536	0.622	0.588			0.574	0.574	5.9
Vinyl Chloride	0.497	0.504	0.545	0.586	0.669	0.500	0.542	12.1
Bromomethane	0.178	0.175	0.217			0.190	0.188	9
Chloroethane	0.190	0.213	0.192			0.201	0.199	4.6
Tetrahydrofuran	0.298	0.266	0.290			0.363	0.321	16.1
Trichlorofluoromethane	1.370	1.490	1.400			1.429	1.411	3.6
1,1,2-Trichlorotrifluoroethane	1.064	1.135	1.135			1.113	1.102	3.3
Dichlorotetrafluoroethane	1.103	1.166	1.154			1.143	1.133	2.6
tert-Butyl alcohol	1.114	1.255	1.224			1.170	1.183	4.8
Heptane	1.352	1.233	1.004			1.616	1.361	18.9
1,1-Dichloroethene	0.482	0.489	0.474			0.488	0.483	1.3
Acetone	1.246	1.359	1.420			1.072	1.228	13.6
Carbon Disulfide	1.317	1.458	1.436			1.375	1.388	4.2
Methyl tert-Butyl Ether	0.574	0.624	0.643			0.617	0.619	4.3
Methylene Chloride	0.510	0.611	0.716			0.421	0.535	24.1
trans-1,2-Dichloroethene	0.528	0.575	0.550			0.549	0.547	3.3
1,1-Dichloroethane	1.050	1.080	1.105			1.099	1.080	2.1
Cyclohexane	0.815	0.735	0.625			1.011	0.848	21.5
2-Butanone	0.659	0.627	0.596			0.674	0.648	5.6
Carbon Tetrachloride	0.641	0.681	0.690	0.719	0.887	0.691	0.711	11.4
cis-1,2-Dichloroethene	1.102	1.086	0.968			1.149	1.099	7.6
Chloroform	1.823	1.891	1.803			1.865	1.840	2
1,1,1-Trichloroethane	1.662	1.661	1.666	1.510	2.127	1.709	1.721	11.1
2,2,4-Trimethylpentane	1.471	1.300	1.170			1.687	1.455	15.2
Benzene	0.839	0.829	0.816			0.924	0.872	7.2
1,2-Dichloroethane	0.512	0.519	0.529			0.527	0.522	1.3
Trichloroethene	0.354	0.353	0.373	0.376	0.503	0.402	0.395	13.1
1,2-Dichloropropane	0.338	0.351	0.358			0.357	0.353	2.4
Bromodichloromethane	0.714	0.742	0.783			0.762	0.750	3.4

* 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	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF010	$\overline{RRF}$	% RSD
4-Methyl-2-Pentanone	0.728	0.664	0.595			0.933	0.775	20.8
Toluene	0.758	0.670	0.598			1.001	0.813	24.3
t-1,3-Dichloropropene	0.283	0.274	0.251			0.352	0.308	17.9
cis-1,3-Dichloropropene	0.390	0.385	0.366			0.474	0.425	14.7
1,1,2-Trichloroethane	0.352	0.353	0.352			0.376	0.359	2.9
Dibromochloromethane	0.536	0.562	0.548			0.588	0.563	3.8
1,2-Dibromoethane	0.444	0.448	0.436	0.433		0.508	0.462	7.5
Tetrachloroethene	0.263	0.254	0.256	0.224	0.327	0.279	0.269	11.8
Chlorobenzene	0.898	0.886	0.949			0.970	0.924	3.8
Ethyl Benzene	1.196	1.017	0.942			1.650	1.288	26.2
m/p-Xylene	1.104	0.884	0.738			1.392	1.089	25.7
o-Xylene	1.096	0.844	0.726			1.402	1.082	27.5
Styrene	0.340	0.299	0.245			0.556	0.403	37.7
Bromoform	0.425	0.411	0.429			0.472	0.439	5.9
1,1,2,2-Tetrachloroethane	0.747	0.723	0.730	0.748	0.970	0.803	0.782	11.1
2-Chlorotoluene	1.116	0.945	0.834			1.503	1.170	25.5
1,3,5-Trimethylbenzene	1.076	0.868	0.670			1.398	1.071	28.9
1,2,4-Trimethylbenzene	1.337	1.074	0.781			1.603	1.258	26.5
1,3-Dichlorobenzene	0.802	0.714	0.703			0.904	0.798	11.2
1,4-Dichlorobenzene	0.762	0.674	0.629			0.913	0.768	15.6
1,2-Dichlorobenzene	0.813	0.786	0.689			0.897	0.805	9.5
1,2,4-Trichlorobenzene	0.485	0.366	0.267			0.635	0.479	34.5
Hexachloro-1,3-Butadiene	0.513	0.496	0.533			0.524	0.514	3
1,3-Butadiene	0.472	0.529	0.579			0.494	0.514	8.1
Naphthalene	0.972	0.609	0.438	0.394		1.344	0.849	50.9
4-Ethyltoluene	1.252	0.977	0.779			1.691	1.267	31.5
1-Bromo-4-Fluorobenzene	0.781	0.782	0.778	0.753	0.743	0.837	0.782	3.9
Hexane	1.145	1.026	0.939			1.242	1.126	12.7
Allyl Chloride	0.814	0.815	0.883			0.826	0.833	3.5
1,4-Dioxane	112.993	122.124	99.291			146.704	125.114	16.3

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COMPOUND	RRF002	RRF001	RRF0.5	RRF0.1	RRF.03	RRF010	$\overline{RRF}$	% RSD
Methyl Methacrylate	0.276	0.248	0.227			0.345	0.292	20.6

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