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.: Q3015

Instrument ID: MSVOA_N Calibration Date(s): 09/04/2025 09/04/2025

Heated Purge: (Y/N) N Calibration Time(s): 16:23 17:46

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

LAB FILE ID: RRF005 = VN087725.D RRF020 = VN087726.D RRF050 = VN087727.D
RRF100 = VN087728.D RRF150 = VN087729.D RRF =

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	1.642	1.750	2.035	2.008	1.888		1.865	9
Chloromethane	1.939	1.792	2.026	2.037	1.992		1.957	5.1
Vinyl Chloride	2.110	2.001	2.388	2.315	2.249		2.213	7.1
Ethyl Acetate	0.673	0.647	0.704	0.704	0.703		0.686	3.8
Bromomethane	1.293	1.108	1.325	1.377	1.387		1.298	8.7
Chloroethane	1.599	1.358	1.577	1.521	1.506		1.512	6.2
Trichlorofluoromethane	3.241	2.904	3.445	3.355	3.271		3.243	6.3
1,1,2-Trichlorotrifluoroethane	1.776	1.591	1.904	1.779	1.733		1.757	6.4
1,1-Dichloroethene	1.836	1.575	1.915	1.883	1.846		1.811	7.5
Acrolein	0.523	0.431	0.496	0.518	0.518		0.497	7.7
Acrylonitrile	1.167	1.051	1.253	1.274	1.263		1.202	7.9
Acetone	0.487	0.319	0.366	0.355	0.349		0.375	17.3
Carbon Disulfide	4.965	4.353	5.190	5.135	5.219		4.972	7.2
Methyl tert-Butyl Ether	5.787	5.537	6.897	6.968	7.139		6.466	11.5
Methylene Chloride	2.174	1.759	2.150	2.090	2.084		2.052	8.2
trans-1,2-Dichloroethene	1.709	1.652	1.947	1.965	1.962		1.847	8.3
Vinyl Acetate	1.035	1.002	1.168	1.220	1.186		1.122	8.6
1,1-Dichloroethane	3.750	3.277	3.899	3.878	3.823		3.725	6.9
2-Butanone	0.348	0.303	0.339	0.348	0.342		0.336	5.6
Carbon Tetrachloride	0.526	0.466	0.530	0.533	0.522		0.515	5.5
2,2-Dichloropropane	0.613	0.495	0.606	0.616	0.609		0.588	8.8
cis-1,2-Dichloroethene	2.078	1.988	2.367	2.370	2.406		2.242	8.6
Chloroform	3.785	3.484	4.143	4.049	4.035		3.899	6.9
1,1,1-Trichloroethane	0.599	0.582	0.635	0.647	0.628		0.618	4.4
1,1-Dichloropropene	0.462	0.448	0.506	0.516	0.505		0.488	6.2
Benzene	1.514	1.442	1.630	1.657	1.636		1.576	5.9
1,2-Dichloroethane	0.595	0.554	0.609	0.618	0.600		0.595	4.1
Trichloroethene	0.352	0.323	0.364	0.366	0.357		0.352	5
1,2-Dichloropropane	0.394	0.374	0.407	0.428	0.415		0.404	5
Dibromomethane	0.301	0.275	0.307	0.315	0.304		0.300	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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COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
Bromodichloromethane	0.612	0.570	0.616	0.647	0.624		0.614	4.5
4-Methyl-2-Pentanone	0.666	0.655	0.734	0.754	0.738		0.709	6.4
Toluene	1.705	1.673	1.868	1.935	1.893		1.815	6.5
t-1,3-Dichloropropene	0.594	0.556	0.653	0.696	0.689		0.638	9.5
cis-1,3-Dichloropropene	0.607	0.566	0.678	0.712	0.702		0.653	9.7
1,1,2-Trichloroethane	0.388	0.354	0.399	0.401	0.398		0.388	5.1
1,3-Dichloropropane	0.636	0.623	0.694	0.719	0.695		0.674	6.2
2-Chloroethyl vinyl ether	0.310	0.319	0.339	0.377	0.384		0.346	9.7
2-Hexanone	0.334	0.419	0.508	0.533	0.523		0.464	18.4
Dibromochloromethane	0.420	0.369	0.454	0.468	0.464		0.435	9.5
1,2-Dibromoethane	0.386	0.363	0.421	0.423	0.425		0.404	6.9
Tetrachloroethene	0.312	0.279	0.297	0.306	0.300		0.299	4.2
Chlorobenzene	1.063	1.006	1.127	1.191	1.182		1.114	7.1
1,1,1,2-Tetrachloroethane	0.395	0.354	0.399	0.411	0.401		0.392	5.7
Ethyl Benzene	1.736	1.744	2.042	2.145	2.122		1.958	10.3
m/p-Xylenes	0.629	0.642	0.776	0.800	0.785		0.727	11.5
o-Xylene	0.603	0.639	0.731	0.774	0.776		0.705	11.2
Styrene	0.997	1.076	1.311	1.375	1.364		1.225	14.3
Bromoform	0.265	0.242	0.289	0.312	0.313		0.284	10.8
Isopropylbenzene	1.538	1.555	1.896	1.984	1.960		1.787	12.4
1,1,2,2-Tetrachloroethane	0.616	0.605	0.666	0.670	0.655		0.642	4.6
1,2,3-Trichloropropane	0.672	0.640	0.612	0.625	0.605		0.631	4.3
Bromobenzene	0.429	0.393	0.442	0.464	0.457		0.437	6.4
n-propylbenzene	1.942	2.018	2.404	2.485	2.423		2.254	11.3
2-Chlorotoluene	1.178	1.243	1.456	1.465	1.442		1.357	10
1,3,5-Trimethylbenzene	1.292	1.352	1.616	1.666	1.617		1.509	11.5
4-Chlorotoluene	1.091	1.260	1.493	1.505	1.490		1.368	13.6
1,2,4-Trimethylbenzene	1.292	1.405	1.677	1.697	1.663		1.547	12
sec-Butylbenzene	1.629	1.677	1.986	2.034	1.966		1.858	10.2
p-Isopropyltoluene	1.311	1.361	1.655	1.693	1.637		1.531	11.8

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COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
1,3-Dichlorobenzene	0.762	0.789	0.888	0.900	0.874		0.843	7.5
1,4-Dichlorobenzene	0.778	0.776	0.895	0.908	0.867		0.845	7.5
n-Butylbenzene	1.249	1.282	1.609	1.636	1.583		1.472	12.9
1,2-Dichlorobenzene	0.718	0.733	0.839	0.855	0.828		0.795	8.1
1,2-Dibromo-3-Chloropropane	0.123	0.139	0.146	0.154	0.152		0.143	8.9
1,2,4-Trichlorobenzene	0.410	0.400	0.471	0.491	0.488		0.452	9.7
Hexachlorobutadiene	0.146	0.146	0.155	0.160	0.152		0.152	4
Naphthalene	1.306	1.443	1.764	1.891	1.918		1.664	16.5
1,2,3-Trichlorobenzene	0.410	0.400	0.471	0.491	0.488		0.452	9.7
1,2-Dichloroethane-d4	2.618	2.509	2.604	2.499	2.583		2.563	2.2
Toluene-d8	1.403	1.411	1.392	1.402	1.369		1.395	1.2
4-Bromofluorobenzene	0.454	0.489	0.475	0.501	0.492		0.482	3.8

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