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

Lab Name: CHEMTECH Contract: PORT06

Lab Code: CHEM Case No.: Q1514 SAS No.: Q1514 SDG No.: Q1514

Instrument ID: MSVOA_Y Calibration Date(s): 03/04/2025 03/04/2025

Heated Purge: (Y/N) Y Calibration Time(s): 09:46 12:15

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

LAB FILE ID: RRF010 = VY021397.D RRF020 = VY021398.D RRF050 = VY021399.D
RRF100 = VY021400.D RRF150 = VY021401.D RRF005 = VY021403.D

COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF150	RRF005	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.493	0.416	0.447	0.440	0.429	0.529	0.459	9.4
Chloromethane	0.694	0.588	0.617	0.608	0.580	0.793	0.647	12.7
Vinyl Chloride	0.762	0.639	0.691	0.706	0.665	0.778	0.707	7.7
Bromomethane	0.555	0.450	0.468	0.483	0.468	0.641	0.511	14.4
Chloroethane	0.505	0.427	0.460	0.458	0.432	0.521	0.467	8.2
Trichlorofluoromethane	1.050	0.896	0.967	0.963	0.935	1.109	0.987	8
1,1,2-Trichlorotrifluoroethane	0.600	0.507	0.538	0.542	0.525	0.668	0.563	10.7
1,1-Dichloroethene	0.542	0.460	0.506	0.512	0.494	0.566	0.514	7.2
Acetone	0.124	0.091	0.134	0.103	0.095	0.144	0.115	18.9
Carbon Disulfide	1.705	1.425	1.631	1.618	1.546	1.732	1.610	7
Methyl tert-butyl Ether	1.290	1.177	1.366	1.299	1.315	1.364	1.302	5.3
Methyl Acetate	0.253	0.227	0.284	0.245	0.257	0.268	0.256	7.6
Methylene Chloride	0.717	0.538	0.552	0.530	0.507	0.788	0.605	19.4
trans-1,2-Dichloroethene	0.608	0.516	0.564	0.570	0.545	0.648	0.575	8.1
1,1-Dichloroethane	1.124	0.955	1.050	1.035	0.991	1.179	1.056	7.9
Cyclohexane	1.039	0.885	0.941	0.943	0.914	1.216	0.990	12.4
2-Butanone	0.160	0.136	0.181	0.149	0.151	0.180	0.159	11.2
Carbon Tetrachloride	0.627	0.538	0.587	0.595	0.579	0.625	0.592	5.6
cis-1,2-Dichloroethene	0.675	0.592	0.654	0.658	0.639	0.702	0.653	5.6
Bromochloromethane	0.481	0.423	0.467	0.426	0.380	0.478	0.443	9
Chloroform	1.181	0.992	1.087	1.066	1.029	1.222	1.096	8.1
1,1,1-Trichloroethane	1.063	0.894	0.978	0.983	0.953	1.151	1.004	9
Methylcyclohexane	0.595	0.550	0.651	0.680	0.669	0.641	0.631	7.8
Benzene	1.554	1.366	1.542	1.540	1.473	1.618	1.515	5.7
1,2-Dichloroethane	0.446	0.386	0.436	0.414	0.408	0.453	0.424	6.1
Trichloroethene	0.390	0.349	0.381	0.384	0.378	0.415	0.383	5.5
1,2-Dichloropropane	0.371	0.333	0.368	0.358	0.347	0.388	0.361	5.3
Bromodichloromethane	0.550	0.485	0.548	0.535	0.521	0.559	0.533	5
4-Methyl-2-Pentanone	0.210	0.202	0.263	0.230	0.243	0.219	0.228	9.9
Toluene	0.952	0.853	0.988	0.997	0.958	0.983	0.955	5.6

* 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	RRF020	RRF050	RRF100	RRF150	RRF005	$\overline{RRF}$	% RSD
t-1,3-Dichloropropene	0.447	0.420	0.499	0.495	0.495	0.461	0.470	6.8
cis-1,3-Dichloropropene	0.544	0.498	0.587	0.579	0.566	0.570	0.557	5.8
1,1,2-Trichloroethane	0.264	0.237	0.283	0.259	0.257	0.274	0.263	6
2-Hexanone	0.135	0.129	0.182	0.156	0.163	0.139	0.151	13.1
Dibromochloromethane	0.358	0.327	0.376	0.363	0.361	0.374	0.360	4.9
1,2-Dibromoethane	0.246	0.226	0.262	0.248	0.247	0.258	0.248	5.1
Tetrachloroethene	0.418	0.370	0.403	0.407	0.393	0.449	0.407	6.5
Chlorobenzene	1.194	1.065	1.186	1.192	1.165	1.283	1.181	5.9
Ethyl Benzene	2.005	1.825	2.135	2.209	2.146	2.115	2.072	6.7
m/p-Xylenes	0.761	0.705	0.822	0.833	0.803	0.797	0.787	6
o-Xylene	0.700	0.635	0.759	0.779	0.754	0.723	0.725	7.2
Styrene	1.133	1.084	1.277	1.306	1.267	1.151	1.203	7.6
Bromoform	0.227	0.213	0.250	0.237	0.238	0.235	0.233	5.3
Isopropylbenzene	3.797	3.468	4.034	4.231	4.124	3.977	3.939	6.9
1,1,2,2-Tetrachloroethane	0.712	0.637	0.727	0.667	0.690	0.737	0.695	5.4
1,3-Dichlorobenzene	1.861	1.640	1.812	1.840	1.822	2.031	1.834	6.8
1,4-Dichlorobenzene	1.820	1.624	1.782	1.783	1.764	1.989	1.794	6.5
1,2-Dichlorobenzene	1.561	1.431	1.588	1.568	1.560	1.723	1.572	5.9
1,2-Dibromo-3-Chloropropane	0.101	0.092	0.108	0.098	0.108	0.117	0.104	8.3
1,2,4-Trichlorobenzene	0.723	0.735	0.908	0.926	0.994	0.864	0.859	12.7
1,2,3-Trichlorobenzene	0.604	0.614	0.775	0.771	0.835	0.734	0.722	13
1,2-Dichloroethane-d4	0.580	0.514	0.482	0.511	0.477	0.606	0.528	10
Dibromofluoromethane	0.348	0.315	0.296	0.332	0.311	0.371	0.329	8.3
Toluene-d8	1.276	1.179	1.135	1.289	1.203	1.384	1.244	7.2
4-Bromofluorobenzene	0.424	0.394	0.386	0.433	0.405	0.498	0.423	9.6

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