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

Lab Name: Alliance Contract: ENVI60

Lab Code: ACE SDG No.: Q2594

Instrument ID: MSVOA_N Calibration Date(s): 06/25/2025 06/25/2025

Heated Purge: (Y/N) N Calibration Time(s): 08:59 10:24

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

LAB FILE ID: RRF005 = VN087162.D RRF020 = VN087163.D RRF050 = VN087164.D
RRF100 = VN087165.D RRF150 = VN087166.D RRF =

COMPOUND	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	1.971	1.652	1.736	1.761	1.909		1.806	7.2
Chloromethane	2.014	1.562	1.799	1.846	2.001		1.845	10
Vinyl Chloride	2.146	1.799	1.922	1.946	2.209		2.005	8.4
Bromomethane	1.205	0.965	0.990	1.020	1.139		1.064	9.7
Chloroethane	1.140	0.966	1.040	1.070	1.161		1.075	7.3
Trichlorofluoromethane	2.644	2.322	2.382	2.400	2.546		2.459	5.4
1,1,2-Trichlorotrifluoroethane	1.941	1.681	1.788	1.785	1.920		1.823	5.9
1,1-Dichloroethene	1.930	1.676	1.779	1.772	1.929		1.817	6.1
Acetone	0.423	0.367	0.386	0.373	0.390		0.388	5.7
Carbon Disulfide	6.114	4.847	5.126	5.051	5.429		5.313	9.3
Methyl tert-Butyl Ether	6.446	5.734	6.377	6.408	6.903		6.374	6.5
Methyl Acetate	2.817	2.616	2.857	2.889	3.074		2.851	5.7
Methylene Chloride	2.339	1.947	2.062	2.025	2.153		2.105	7.1
trans-1,2-Dichloroethene	2.191	1.821	1.955	1.916	2.054		1.987	7.1
1,1-Dichloroethane	4.181	3.580	3.726	3.650	3.867		3.801	6.3
Cyclohexane	0.547	0.504	0.605	0.568	0.611		0.567	7.8
2-Butanone	0.292	0.286	0.342	0.316	0.341		0.315	8.4
Carbon Tetrachloride	0.493	0.398	0.480	0.447	0.480		0.460	8.4
cis-1,2-Dichloroethene	2.324	2.093	2.374	2.269	2.506		2.313	6.5
Chloroform	3.901	3.326	3.659	3.568	3.753		3.641	5.9
1,1,1-Trichloroethane	0.563	0.497	0.582	0.524	0.565		0.546	6.3
Methylcyclohexane	0.545	0.472	0.533	0.551	0.582		0.537	7.5
Benzene	1.576	1.309	1.574	1.454	1.494		1.481	7.4
1,2-Dichloroethane	0.517	0.442	0.507	0.457	0.471		0.479	6.7
Trichloroethene	0.371	0.294	0.352	0.336	0.355		0.342	8.5
1,2-Dichloropropane	0.397	0.348	0.369	0.363	0.382		0.372	5.1
Bromodichloromethane	0.537	0.482	0.522	0.485	0.525		0.510	4.9
4-Methyl-2-Pentanone	0.557	0.547	0.645	0.630	0.637		0.603	7.8
Toluene	1.839	1.550	1.720	1.643	1.720		1.694	6.3
t-1,3-Dichloropropene	0.553	0.512	0.613	0.554	0.612		0.569	7.6

* 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	RRF005	RRF020	RRF050	RRF100	RRF150	RRF	$\overline{RRF}$	% RSD
cis-1,3-Dichloropropene	0.616	0.568	0.606	0.585	0.649		0.605	5.1
1,1,2-Trichloroethane	0.388	0.333	0.376	0.332	0.366		0.359	7
2-Hexanone	0.305	0.322	0.440	0.428	0.452		0.389	18
Dibromochloromethane	0.373	0.343	0.401	0.363	0.405		0.377	7
1,2-Dibromoethane	0.381	0.344	0.382	0.358	0.389		0.371	5.1
Tetrachloroethene	0.334	0.268	0.301	0.281	0.301		0.297	8.4
Chlorobenzene	1.136	0.985	1.106	1.071	1.106		1.081	5.4
Ethyl Benzene	1.847	1.649	1.926	1.899	1.952		1.855	6.5
m/p-Xylenes	0.694	0.636	0.742	0.734	0.747		0.711	6.5
o-Xylene	0.650	0.604	0.709	0.706	0.720		0.678	7.3
Styrene	1.086	1.039	1.240	1.213	1.242		1.164	8.1
Bromoform	0.258	0.234	0.271	0.258	0.276		0.259	6.3
Isopropylbenzene	1.623	1.479	1.789	1.764	1.788		1.689	8
1,1,2,2-Tetrachloroethane	0.624	0.566	0.635	0.606	0.608		0.608	4.4
1,3,5-Trimethylbenzene	1.275	1.181	1.499	1.466	1.453		1.375	10.1
1,3-Dichlorobenzene	0.782	0.717	0.840	0.823	0.782		0.789	6.1
1,4-Dichlorobenzene	0.791	0.714	0.852	0.823	0.788		0.794	6.5
1,2-Dichlorobenzene	0.719	0.670	0.805	0.781	0.743		0.744	7.1
1,2-Dibromo-3-Chloropropane	0.130	0.122	0.143	0.142	0.147		0.137	7.6
1,2,4-Trichlorobenzene	0.399	0.379	0.416	0.449	0.460		0.421	8
1,2,3-Trichlorobenzene	0.399	0.379	0.416	0.449	0.460		0.421	8
1,2-Dichloroethane-d4	2.394	2.309	2.211	2.236	2.153		2.260	4.1
Toluene-d8	1.386	1.399	1.314	1.311	1.325		1.347	3.2
4-Bromofluorobenzene	0.439	0.448	0.470	0.489	0.468		0.463	4.3

* Compounds with required minimum RRF and maximum %RSD values.
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