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.: Q2552

Instrument ID: MSVOA_U Calibration Date(s): 07/16/2025 07/16/2025

Heated Purge: (Y/N) N Calibration Time(s): 09:24 12:11

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF0.5 = VU063511.D RRF001 = VU063512.D RRF002 = VU063513.D
RRF005 = VU063514.D RRF010 = VU063515.D RRF015 = VU063516.D

COMPOUND	RRF0.5	RRF001	RRF002	RRF005	RRF010	RRF015	$\overline{RRF}$	% RSD
Dichlorodifluoromethane	0.297	0.288	0.281	0.290	0.296	0.317	0.295	4.1
Chloromethane	0.269	0.291	0.261	0.270	0.268	0.285	0.274	4.1
Vinyl Chloride	0.338	0.353	0.333	0.340	0.355	0.376	0.349	4.5
Bromomethane	0.275	0.289	0.267	0.252	0.244	0.254	0.263	6.4
Chloroethane	0.208	0.212	0.199	0.207	0.214	0.226	0.211	4.3
Tetrahydrofuran	0.079	0.054	0.054	0.050	0.052	0.055	0.057	18.6
Trichlorofluoromethane	0.493	0.508	0.471	0.494	0.509	0.532	0.501	4.1
1,1,2-Trichloro-1,2,2-trifluoroeth	0.248	0.267	0.252	0.261	0.266	0.278	0.262	4.1
tert-Butyl Alcohol		0.025	0.022	0.023	0.024	0.025	0.024	5.8
Diethyl Ether	0.172	0.202	0.194	0.199	0.206	0.213	0.198	7.2
1,1-Dichloroethene	0.260	0.262	0.241	0.256	0.265	0.274	0.260	4.3
Acrylonitrile	0.067	0.069	0.064	0.062	0.063	0.063	0.065	4.3
Acetone	0.055	0.049	0.053	0.045	0.050	0.061	0.052	10.7
Carbon Disulfide	0.817	0.848	0.786	0.819	0.861	0.900	0.839	4.8
Methyl tert-Butyl Ether	0.635	0.700	0.646	0.666	0.693	0.727	0.678	5.2
Methyl acrylate	0.162	0.161	0.140	0.152	0.168	0.174	0.160	7.7
Methylene Chloride	0.327	0.328	0.287	0.290	0.293	0.308	0.306	6.1
trans-1,2-Dichloroethene	0.287	0.312	0.278	0.284	0.298	0.310	0.295	4.7
1,1-Dichloroethane	0.530	0.569	0.520	0.539	0.549	0.572	0.546	3.8
Cyclohexane	0.451	0.495	0.435	0.449	0.462	0.484	0.463	4.9
2-Butanone	0.080	0.081	0.079	0.074	0.080	0.090	0.081	6.4
Carbon Tetrachloride	0.333	0.383	0.362	0.381	0.392	0.435	0.381	8.8
2,2-Dichloropropane	0.482	0.487	0.447	0.433	0.454	0.489	0.465	5.1
cis-1,2-Dichloroethene	0.310	0.347	0.298	0.309	0.320	0.335	0.320	5.6
Bromochloromethane	0.128	0.131	0.127	0.132	0.138	0.145	0.134	5.1
Chloroform	0.551	0.584	0.537	0.543	0.547	0.583	0.558	3.7
1,1,1-Trichloroethane	0.457	0.477	0.449	0.471	0.482	0.505	0.473	4.2
Methylcyclohexane	0.442	0.440	0.402	0.406	0.490	0.519	0.450	10.3
1,1-Dichloropropene	0.413	0.455	0.432	0.430	0.434	0.468	0.438	4.5
Propionitrile	0.025	0.026	0.024	0.025	0.023	0.024	0.025	3.8

* Compounds with required minimum RRF and maximum %RSD values.
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RRF of 1,4-Dioxane = Value should be divide by 1000.

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GC Column: DB-624UI ID: 0.18 (mm)

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COMPOUND	RRF0.5	RRF001	RRF002	RRF005	RRF010	RRF015	$\overline{RRF}$	% RSD
Benzene	1.218	1.011	1.165	1.205	1.202	1.269	1.178	7.5
1,2-Dichloroethane	0.360	0.332	0.363	0.371	0.376	0.394	0.366	5.7
Trichloroethene	0.314	0.283	0.269	0.271	0.323	0.345	0.301	10.3
1,2-Dichloropropane	0.235	0.261	0.251	0.258	0.315	0.334	0.276	14.4
1-Chlorobutane	0.575	0.575	0.553	0.583	0.591	0.621	0.583	3.9
Dibromomethane	0.132	0.134	0.131	0.138	0.154	0.168	0.143	10.4
Bromodichloromethane	0.304	0.304	0.300	0.310	0.328	0.388	0.322	10.4
4-Methyl-2-Pentanone	0.136	0.147	0.136	0.146	0.152	0.166	0.147	7.8
Toluene	0.582	0.650	0.596	0.642	0.671	0.718	0.643	7.8
t-1,3-Dichloropropene	0.213	0.231	0.223	0.250	0.285	0.313	0.253	15.5
cis-1,3-Dichloropropene	0.284	0.311	0.292	0.334	0.362	0.452	0.339	18.4
1,1,2-Trichloroethane	0.173	0.197	0.180	0.191	0.202	0.211	0.192	7.4
1,3-Dichloropropane	0.310	0.327	0.318	0.330	0.344	0.364	0.332	5.8
2-Hexanone	0.090	0.097	0.087	0.096	0.103	0.114	0.098	10
Dibromochloromethane	0.165	0.184	0.185	0.206	0.232	0.248	0.203	15.5
1,2-Dibromoethane	0.164	0.169	0.161	0.171	0.179	0.189	0.172	5.9
Tetrachloroethene	0.254	0.279	0.266	0.270	0.285	0.295	0.275	5.4
Chlorobenzene	0.680	0.735	0.686	0.732	0.771	0.828	0.739	7.5
1,1,1,2-Tetrachloroethane	0.211	0.236	0.218	0.233	0.254	0.273	0.238	9.6
Hexachloroethane	0.134	0.146	0.143	0.170	0.192	0.213	0.166	18.7
Ethyl Benzene	1.195	1.261	1.191	1.259	1.314	1.408	1.271	6.4
m/p-Xylenes	0.459	0.470	0.464	0.488	0.519	0.564	0.494	8.2
o-Xylene	0.428	0.462	0.432	0.473	0.504	0.550	0.475	9.8
Styrene	0.649	0.715	0.690	0.764	0.823	0.900	0.757	12.2
Bromoform	0.096	0.085	0.092	0.105	0.118	0.131	0.104	16.8
Isopropylbenzene	1.016	1.118	1.057	1.148	1.230	1.318	1.148	9.7
1,1,2,2-Tetrachloroethane	0.222	0.229	0.217	0.230	0.243	0.264	0.234	7.3
1,2,3-Trichloropropane	0.171	0.198	0.182	0.177	0.208	0.204	0.190	8
Bromobenzene	0.284	0.283	0.265	0.293	0.309	0.343	0.296	9.1
n-propylbenzene	0.303	0.327	0.323	0.344	0.375	0.402	0.346	10.6

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COMPOUND	RRF0.5	RRF001	RRF002	RRF005	RRF010	RRF015	$\overline{RRF}$	% RSD
2-Chlorotoluene	0.278	0.298	0.285	0.301	0.322	0.349	0.305	8.6
1,3,5-Trimethylbenzene	0.966	1.036	1.013	1.102	1.182	1.280	1.097	10.7
4-Chlorotoluene	0.269	0.300	0.296	0.311	0.330	0.355	0.310	9.5
tert-Butylbenzene	0.954	0.987	0.975	1.042	1.123	1.207	1.048	9.4
1,2,4-Trimethylbenzene	0.953	1.029	1.004	1.096	1.178	1.268	1.088	10.8
sec-Butylbenzene	1.226	1.376	1.304	1.417	1.516	1.641	1.413	10.5
p-Isopropyltoluene	1.023	1.104	1.091	1.202	1.275	1.384	1.180	11.3
1,3-Dichlorobenzene	0.539	0.571	0.543	0.594	0.629	0.681	0.593	9.2
1,4-Dichlorobenzene	0.512	0.572	0.539	0.590	0.635	0.711	0.593	12.1
n-Butylbenzene	0.933	1.004	0.985	1.113	1.211	1.319	1.094	13.6
1,2-Dichlorobenzene	0.504	0.538	0.502	0.552	0.597	0.649	0.557	10.2
1,2-Dibromo-3-Chloropropane	0.024	0.027	0.031	0.034	0.040	0.044	0.033	23.1
1,2,4-Trichlorobenzene	0.304	0.313	0.310	0.341	0.385	0.425	0.346	14.1
Hexachlorobutadiene	0.179	0.185	0.180	0.195	0.211	0.231	0.197	10.5
Naphthalene		0.533	0.520	0.587	0.679	0.785	0.621	17.9
1,2,3-Trichlorobenzene	0.269	0.294	0.283	0.321	0.352	0.400	0.320	15.3
Nitrobenzene	0.002	0.004	0.003	0.004	0.005	0.006	0.004	34.4
1,2-Dichlorobenzene-d4	0.318	0.364	0.326	0.342	0.359	0.392	0.350	7.7
4-Bromofluorobenzene	0.373	0.410	0.361	0.361	0.369	0.398	0.379	5.4
Iodomethane		0.238	0.241	0.306	0.369	0.413	0.314	24.7
Allyl Chloride	0.346	0.373	0.389	0.359	0.382	0.401	0.375	5.4
t-1,4-Dichloro-2-butene	0.052	0.060	0.050	0.051	0.063	0.056	0.055	9.3
Methacrylonitrile	0.139	0.105	0.107	0.096	0.101	0.106	0.109	13.9
Ethyl methacrylate	0.206	0.200	0.218	0.226	0.252	0.271	0.229	11.9
Isopropyl Ether	0.796	0.855	0.789	0.810	0.831	0.867	0.825	3.9
Methyl methacrylate	0.107	0.107	0.108	0.117	0.127	0.154	0.120	15.3

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