

VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name:	<u>Alliance</u>	Contract:	<u>ALLI03</u>
Lab Code:	<u>ACE</u>	SDG No.:	<u>Q2552</u>
Instrument ID:	<u>MSVOA_U</u>	Calibration Date(s):	<u>07/16/2025</u> <u>07/16/2025</u>
Heated Purge: (Y/N)	<u>N</u>	Calibration Time(s):	<u>09:24</u> <u>12:11</u>
GC Column:	<u>DB-624UI</u>	ID:	<u>0.18</u> (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	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-trifluoroethane	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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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	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	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
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
Methacrylonitrile	0.139	0.105	0.107	0.096	0.101	0.106	0.109	13.9
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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