

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
 Data File : VX046614.D
 Acq On : 10 Jun 2025 20:19
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Quant Time: Jun 11 05:56:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 11 05:53:18 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 06/11/2025
 Supervised By : Mahesh Dadoda 06/11/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.916	128	20339	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	108711	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	100056	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	51846	27.060	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	90.200%#		
60) 4-Bromofluorobenzene	11.079	95	51515	28.084	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	93.600%		
63) Toluene-d8	8.653	98	135945	25.528	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	85.100%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.179	85	6570	3.970	ug/l	99
3) Chloromethane	1.307	50	7029	3.631	ug/l	97
4) Vinyl Chloride	1.386	62	6659	3.553	ug/l	100
5) Bromomethane	1.624	94	4379	5.987	ug/l	86
6) Chloroethane	1.703	64	3876	3.884	ug/l	96
7) Trichlorofluoromethane	1.904	101	9576	3.737	ug/l	96
8) Diethyl Ether	2.148	74	3565m	3.737	ug/l	
9) 1,1,2-Trichlorotrifluo...	2.349	101	6635	4.287	ug/l	97
10) 1,1-Dichloroethene	2.331	96	6274	4.171	ug/l	93
11) Methyl Iodide	2.465	142	7812	4.351	ug/l	97
12) Methyl Acetate	2.715	43	8141	4.326	ug/l	99
13) Acrolein	2.246	56	3864m	11.944	ug/l	
14) Acrylonitrile	3.075	53	16477	19.615	ug/l	96
15) Acetone	2.392	58	3564	16.008	ug/l	95
16) Carbon Disulfide	2.526	76	16246	3.799	ug/l	97
17) Allyl chloride	2.685	41	11278	4.010	ug/l	94
18) Methylene Chloride	2.807	84	7325	4.352	ug/l	98
19) trans-1,2-Dichloroethene	3.111	96	6558	4.296	ug/l	96
20) Diisopropyl ether	3.782	45	20640	3.834	ug/l	96
21) 1,1-Dichloroethane	3.623	63	12577	4.190	ug/l	97
22) cis-1,2-Dichloroethene	4.507	96	7461	4.085	ug/l	97
23) tert-Butyl Alcohol	2.965	59	3079	11.259	ug/l #	100
24) Methyl tert-Butyl Ether	3.130	73	17874	3.672	ug/l	99
25) Chloroform	5.105	83	13281	4.539	ug/l	93
26) Cyclohexane	5.483	56	11414	4.131	ug/l #	97
29) 1,1-Dichloropropene	5.702	75	8995m	4.533	ug/l	
30) 2-Butanone	4.574	43	18746	17.149	ug/l #	95
31) 2,2-Dichloropropane	4.495	77	7756	3.602	ug/l	95
32) 1,1,1-Trichloroethane	5.398	97	10859m	4.503	ug/l	
33) Carbon Tetrachloride	5.684	117	9491	4.628	ug/l	98
34) Benzene	6.050	78	26529	4.329	ug/l	99
35) Methacrylonitrile	4.934	41	4456	3.751	ug/l	90
36) 1,2-Dichloroethane	6.111	62	10321	4.805	ug/l	96
37) Trichloroethene	7.135	130	6787	4.704	ug/l	94
38) Methylcyclohexane	7.391	83	10589	4.024	ug/l	99
39) 1,2-Dichloropropane	7.440	63	6540m	4.306	ug/l	
40) Dibromomethane	7.592	93	5059	4.591	ug/l	97
41) Bromodichloromethane	7.824	83	9535	4.313	ug/l #	96
42) Vinyl Acetate	3.739	43	77412	18.221	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.739	43	7901	3.772	ug/l #	93
44) Isopropyl Acetate	6.361	43	11865	3.470	ug/l	98
45) 1,4-Dioxane	7.678	88	1577	47.827	ug/l #	66
46) Methyl methacrylate	7.702	41	6418m	3.745	ug/l	
47) n-amyl Acetate	10.848	43	10344	3.541	ug/l	99
48) t-1,3-Dichloropropene	8.988	75	8052	3.828	ug/l	97
49) cis-1,3-Dichloropropene	8.373	75	9107	3.855	ug/l	95
50) 1,1,2-Trichloroethane	9.153	97	6180	4.347	ug/l	92
51) Ethyl methacrylate	9.122	69	8230	3.665	ug/l	95
52) 1,3-Dichloropropane	9.311	76	10513	4.209	ug/l	99
53) Dibromochloromethane	9.519	129	6791	4.264	ug/l	97
54) 1,2-Dibromoethane	9.616	107	6561m	4.514	ug/l	
55) 2-Chloroethyl vinyl ether	8.245	63	22805	19.690	ug/l	99
56) Bromoform	10.799	173	4103	4.083	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	40811	18.799	ug/l	98
59) 2-Hexanone	9.433	43	27294	17.430	ug/l	99
61) Tetrachloroethene	9.275	164	5776	4.781	ug/l	93
62) Toluene	8.720	91	27732	4.271	ug/l	99
64) Chlorobenzene	10.080	112	18438	4.574	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	5797	4.329	ug/l	98
66) Ethyl Benzene	10.195	91	31311	4.369	ug/l	95
67) m/p-Xylenes	10.305	106	22936	8.659	ug/l	97
68) o-Xylene	10.640	106	11097	4.286	ug/l	99
69) Styrene	10.659	104	18699	4.280	ug/l	99
70) Isopropylbenzene	10.964	105	30702	4.557	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.214	83	9519	4.357	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	7755m	4.303	ug/l	
73) Bromobenzene	11.201	156	7460	4.799	ug/l	97
74) n-propylbenzene	11.305	91	35787	4.437	ug/l	99
75) 2-Chlorotoluene	11.366	91	22257	4.585	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	25610	4.595	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	2205	3.597	ug/l	73
78) 4-Chlorotoluene	11.457	91	25479	4.653	ug/l	100
79) tert-butylbenzene	11.713	119	25323	4.521	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	24894	4.475	ug/l	98
81) sec-Butylbenzene	11.890	105	32733	4.630	ug/l	99
82) p-Isopropyltoluene	12.006	119	25993	4.517	ug/l	99
83) 1,3-Dichlorobenzene	11.970	146	13898	4.793	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	14175	4.923	ug/l	98
85) n-Butylbenzene	12.335	91	25235	4.722	ug/l	100
86) Hexachloroethane	12.536	117	4454	4.374	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	13468	4.757	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	1679	3.904	ug/l	95
89) 1,2,4-Trichlorobenzene	13.585	180	8164	4.637	ug/l	99
90) Hexachlorobutadiene	13.725	225	3828	5.291	ug/l	100
91) Naphthalene	13.774	128	25102	4.155	ug/l	98
92) 1,2,3-Trichlorobenzene	13.957	180	8091	4.528	ug/l	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

