

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100725\
 Data File : VX048054.D
 Acq On : 07 Oct 2025 17:43
 Operator : JC/MD
 Sample : VSTDICC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC050

Quant Time: Oct 08 02:18:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X100725W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 08 02:15:43 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/08/2025
 Supervised By : Mahesh Dadoda 10/09/2025

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

Internal Standards						
1) Bromochloromethane	4.891	128	26060m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	161556	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.037	117	147460	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	75628	33.646	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 112.167%#			
60) 4-Bromofluorobenzene	11.061	95	73149	29.495	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.333%			
63) Toluene-d8	8.634	98	200534	30.481	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.600%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.172	85	102479	57.282	ug/l	98
3) Chloromethane	1.300	50	111199	59.362	ug/l	100
4) Vinyl Chloride	1.380	62	111533	61.096	ug/l	94
5) Bromomethane	1.617	94	62891	58.629	ug/l	98
6) Chloroethane	1.697	64	69724	64.264	ug/l	97
7) Trichlorofluoromethane	1.898	101	153924	59.798	ug/l	98
8) Diethyl Ether	2.136	74	59872	64.402	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.337	101	84948	52.317	ug/l	99
10) 1,1-Dichloroethene	2.325	96	89184	54.456	ug/l	95
11) Methyl Iodide	2.459	142	125304m	58.791	ug/l	
12) Methyl Acetate	2.703	43	103837	54.722	ug/l	100
13) Acrolein	2.239	56	88841	381.185	ug/l	100
14) Acrylonitrile	3.056	53	252561	293.054	ug/l	98
15) Acetone	2.373	58	57372	287.144	ug/l	93
16) Carbon Disulfide	2.520	76	275547	59.128	ug/l	99
17) Allyl chloride	2.666	41	165666	56.030	ug/l	98
18) Methylene Chloride	2.788	84	107137	58.361	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	96425	56.060	ug/l	90
20) Diisopropyl ether	3.757	45	341808	59.151	ug/l #	79
21) 1,1-Dichloroethane	3.605	63	183569	56.375	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	114237	57.553	ug/l #	86
23) tert-Butyl Alcohol	2.940	59	59547	322.979	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	312784	60.576	ug/l	100
25) Chloroform	5.080	83	188487	56.405	ug/l	98
26) Cyclohexane	5.458	56	148095	51.630	ug/l #	97
29) 1,1-Dichloropropene	5.684	75	120201	48.298	ug/l	98
30) 2-Butanone	4.544	43	302336	266.041	ug/l	97
31) 2,2-Dichloropropane	4.464	77	132566	57.148	ug/l #	91
32) 1,1,1-Trichloroethane	5.379	97	155516	49.952	ug/l	99
33) Carbon Tetrachloride	5.672	117	127063m	47.426	ug/l	
34) Benzene	6.025	78	392489	52.591	ug/l	97
35) Methacrylonitrile	4.910	41	70961	50.841	ug/l	98
36) 1,2-Dichloroethane	6.074	62	146292	52.146	ug/l	98
37) Trichloroethene	7.110	130	93992	50.653	ug/l	93
38) Methylcyclohexane	7.366	83	137334	44.368	ug/l	98
39) 1,2-Dichloropropane	7.415	63	97178	51.805	ug/l	99
40) Dibromomethane	7.568	93	73039	52.016	ug/l #	62
41) Bromodichloromethane	7.805	83	151915	53.589	ug/l #	94
42) Vinyl Acetate	3.715	43	1456204	285.734	ug/l	100

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43) Ethyl Acetate	4.696	43	132926	55.090	ug/l	98
44) Isopropyl Acetate	6.324	43	215967	56.008	ug/l	99
45) 1,4-Dioxane	7.647	88	26487	1109.215	ug/l #	96
46) Methyl methacrylate	7.677	41	110123	53.874	ug/l	97
47) n-amyl Acetate	10.829	43	189267	54.285	ug/l	100
48) t-1,3-Dichloropropene	8.964	75	147570	56.238	ug/l	99
49) cis-1,3-Dichloropropene	8.354	75	160156	55.226	ug/l	98
50) 1,1,2-Trichloroethane	9.134	97	91861	51.851	ug/l	98
51) Ethyl methacrylate	9.104	69	145695	54.404	ug/l	96
52) 1,3-Dichloropropane	9.293	76	162724	53.035	ug/l	99
53) Dibromochloromethane	9.506	129	106624	54.748	ug/l #	29
54) 1,2-Dibromoethane	9.592	107	98691	53.099	ug/l	100
55) 2-Chloroethyl vinyl ether	8.226	63	381611	275.524	ug/l	99
56) Bromoform	10.817	173	446m	0.439	ug/l	
58) 4-Methyl-2-Pentanone	8.555	43	646851	266.857	ug/l	98
59) 2-Hexanone	9.415	43	451096	266.051	ug/l	99
61) Tetrachloroethene	9.256	164	74139	48.624	ug/l	95
62) Toluene	8.702	91	407485	51.209	ug/l	100
64) Chlorobenzene	10.061	112	259638	50.489	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.146	131	92291	53.072	ug/l #	85
66) Ethyl Benzene	10.177	91	448296	49.887	ug/l	98
67) m/p-Xylenes	10.287	106	340689	101.713	ug/l	100
68) o-Xylene	10.628	106	162850	50.724	ug/l	97
69) Styrene	10.640	104	286831	51.772	ug/l	98
70) Isopropylbenzene	10.945	105	409772	47.900	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.195	83	129480	50.592	ug/l	98
72) 1,2,3-Trichloropropane	11.219	75	101978m	47.203	ug/l	
73) Bromobenzene	11.183	156	101684	50.077	ug/l	98
74) n-propylbenzene	11.286	91	501827	49.132	ug/l	99
75) 2-Chlorotoluene	11.347	91	300828	48.849	ug/l	98
76) 1,3,5-Trimethylbenzene	11.433	105	343826	48.469	ug/l	100
77) t-1,4-Dichloro-2-butene	11.000	75	39301	53.442	ug/l	96
78) 4-Chlorotoluene	11.439	91	356365	49.979	ug/l	100
79) tert-butylbenzene	11.695	119	334698	47.761	ug/l	100
80) 1,2,4-Trimethylbenzene	11.731	105	345068	49.080	ug/l	100
81) sec-Butylbenzene	11.872	105	403360	45.143	ug/l	100
82) p-Isopropyltoluene	11.994	119	341754	46.551	ug/l	100
83) 1,3-Dichlorobenzene	11.951	146	188958	50.187	ug/l	99
84) 1,4-Dichlorobenzene	12.024	146	189392	49.963	ug/l	99
85) n-Butylbenzene	12.317	91	315830	45.065	ug/l	99
86) Hexachloroethane	12.518	117	64260	53.410	ug/l	98
87) 1,2-Dichlorobenzene	12.317	146	182890	50.449	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.920	75	26201	50.434	ug/l	97
89) 1,2,4-Trichlorobenzene	13.567	180	111625	47.599	ug/l	97
90) Hexachlorobutadiene	13.707	225	27724	28.526	ug/l	70
91) Naphthalene	13.756	128	355217	47.995	ug/l	99
92) 1,2,3-Trichlorobenzene	13.938	180	108648	47.596	ug/l	99

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

