

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU110725\
 Data File : VU063683.D
 Acq On : 07 Nov 2025 13:28
 Operator : MD/SY
 Sample : Q3530-09
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT4-2025

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/12/2025
 Supervised By : Mahesh Dadoda 11/12/2025

Quant Time: Nov 08 02:33:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U103125DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Mon Nov 03 00:51:51 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Fluorobenzene	6.081	96	54604	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.611	95	22461	0.909	ug/l	0.00
Spiked Amount 1.000			Recovery	=	91.000%	
68) 1,2-Dichlorobenzene-d4	12.171	152	20864	0.942	ug/l	0.00
Spiked Amount 1.000			Recovery	=	94.000%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.374	85	5687	0.277	ug/l	95
3) Chloromethane	1.509	50	6093	0.315	ug/l	98
4) Vinyl Chloride	1.589	62	6476	0.329	ug/l	99
5) Bromomethane	1.837	94	5164	0.435	ug/l	95
6) Chloroethane	1.917	64	4159	0.345	ug/l	100
7) Trichlorofluoromethane	2.116	101	9493	0.332	ug/l	97
8) 1,1,2-Trichloro-1,2,2-...	2.560	101	4954	0.326	ug/l	95
9) 1,1-Dichloroethene	2.557	96	5021	0.341	ug/l	97
10) Iodomethane	2.698	142	3676	0.168	ug/l	93
11) Allyl Chloride	2.898	41	7601	0.331	ug/l	85
12) Acrylonitrile	3.290	53	2926	0.803	ug/l	93
13) Acetone	2.608	43	9588	1.491	ug/l	99
14) Carbon Disulfide	2.766	76	10871	0.262	ug/l	# 91
15) Methylene Chloride	3.017	84	8187	0.433	ug/l	98
16) trans-1,2-Dichloroethene	3.319	96	6244	0.385	ug/l	91
17) 1,1-Dichloroethane	3.833	63	11334	0.352	ug/l	94
18) 2-Butanone	4.701	43	10126	1.484	ug/l	95
19) Cyclohexane	5.341	56	7917	0.322	ug/l	98
20) Methylcyclohexane	6.727	83	9730	0.318	ug/l	98
21) 2,2-Dichloropropane	4.628	77	9502	0.329	ug/l	# 80
22) cis-1,2-Dichloroethene	4.628	96	6304	0.341	ug/l	98
23) Diethyl Ether	2.361	59	3915	0.325	ug/l	96
24) tert-Butyl Alcohol	3.168	59	8675	4.172	ug/l	# 84
25) Methyl tert-Butyl Ether	3.345	73	14121	0.327	ug/l	97
26) Bromochloromethane	4.939	128	2923	0.375	ug/l	81
27) Chloroform	5.055	83	11470	0.349	ug/l	93
28) 1,1,1-Trichloroethane	5.280	97	9248	0.319	ug/l	97
29) 1,1-Dichloropropene	5.489	75	8697	0.357	ug/l	98
30) Carbon Tetrachloride	5.483	117	6663	0.290	ug/l	95
31) Isopropyl Ether	3.975	45	17060	0.335	ug/l	98
32) Ethyl-t-butyl ether	4.483	59	15779	0.321	ug/l	100
33) Tert-Amyl methyl ether	5.923	73	14690	0.344	ug/l	# 92
34) Propionitrile	4.763	54	2630	1.972	ug/l	# 84
35) Benzene	5.740	78	22471	0.327	ug/l	99
36) 1,2-Dichloroethane	5.766	62	7787	0.353	ug/l	# 86
37) Trichloroethene	6.512	130	6473	0.331	ug/l	99
38) 1,2-Dichloropropane	6.766	63	5553	0.289	ug/l	93
39) Methacrylonitrile	4.946	41	3337m	0.503	ug/l	
40) Methyl acrylate	4.830	55	3286	0.341	ug/l	# 86
41) Tetrahydrofuran	5.042	42	2597	0.870	ug/l	97
42) 1-Chlorobutane	5.422	56	10840	0.332	ug/l	94
43) Dibromomethane	6.898	93	3108	0.313	ug/l	97
44) Bromodichloromethane	7.081	83	6387	0.263	ug/l	96

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Quant Time: Nov 08 02:33:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U103125DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Mon Nov 03 00:51:51 2025
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Manual Integrations
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Reviewed By : John Carlone 11/12/2025
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.785	43	17744	1.480	ug/l	98
46) t-1,4-Dichloro-2-butene	10.807	75	2170m	0.522	ug/l	
47) Methyl methacrylate	6.955	69	5603	0.613	ug/l	88
48) Ethyl methacrylate	8.325	69	5221	0.281	ug/l	91
49) Toluene	7.946	92	13823	0.299	ug/l	93
50) t-1,3-Dichloropropene	8.193	75	5254	0.249	ug/l	93
51) cis-1,3-Dichloropropene	7.589	75	7035	0.266	ug/l	96
52) 1,1,2-Trichloroethane	8.380	97	4239	0.314	ug/l	90
53) 1,3-Dichloropropane	8.553	76	7707	0.319	ug/l	98
54) 2-Hexanone	8.685	43	13137	1.298	ug/l	98
55) Dibromochloromethane	8.785	129	4172	0.262	ug/l	88
56) 1,2-Dibromoethane	8.901	107	4050	0.315	ug/l	94
58) Tetrachloroethene	8.531	164	6030	0.315	ug/l	98
59) Chlorobenzene	9.425	112	16177	0.322	ug/l	98
60) 1,1,1,2-Tetrachloroethane	9.512	131	4751	0.270	ug/l	100
61) Pentachloroethane	11.402	117	3056	0.251	ug/l	94
62) Hexachloroethane	12.450	117	2672	0.200	ug/l	96
63) Ethyl Benzene	9.547	91	27565	0.303	ug/l	97
64) m/p-Xylenes	9.672	106	20950	0.617	ug/l	92
65) o-Xylene	10.081	106	9935	0.299	ug/l	98
66) Styrene	10.094	104	14842	0.275	ug/l	98
67) Bromoform	10.270	173	1775	0.207	ug/l #	98
69) Isopropylbenzene	10.460	105	24576	0.299	ug/l	98
70) 1,1,2,2-Tetrachloroethane	10.759	83	5045	0.297	ug/l	99
71) 1,2,3-Trichloropropane	10.798	75	4334m	0.293	ug/l	
72) Bromobenzene	10.766	156	6584	0.331	ug/l	85
73) n-propylbenzene	10.884	120	7171	0.307	ug/l	99
74) 2-Chlorotoluene	10.965	126	6125	0.303	ug/l	96
75) 1,3,5-Trimethylbenzene	11.065	105	21816	0.287	ug/l	100
76) 4-Chlorotoluene	11.077	126	6755	0.332	ug/l	84
77) tert-Butylbenzene	11.393	119	22430	0.301	ug/l	99
78) 1,2,4-Trimethylbenzene	11.447	105	21905	0.300	ug/l	98
79) sec-Butylbenzene	11.618	105	29934	0.306	ug/l	100
80) Nitrobenzene	13.196	77	571m	0.957	ug/l	
81) p-Isopropyltoluene	11.769	119	23005	0.287	ug/l	99
82) 1,3-Dichlorobenzene	11.727	146	12368	0.321	ug/l	96
83) 1,4-Dichlorobenzene	11.817	146	12939	0.338	ug/l	96
84) n-Butylbenzene	12.187	91	21658	0.301	ug/l	95
85) 1,2-Dichlorobenzene	12.190	146	11894	0.327	ug/l	96
86) 1,2-Dibromo-3-Chloropr...	12.974	75	465	0.165	ug/l	91
87) 1,2,4-Trichlorobenzene	13.820	180	8228	0.367	ug/l	98
88) Hexachlorobutadiene	13.994	225	4498	0.337	ug/l	96
89) Naphthalene	14.068	128	17092	0.396	ug/l	99
90) 1,2,3-Trichlorobenzene	14.306	180	7950	0.388	ug/l	98

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

Manual Integrations

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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
QLast Update : Mon Nov 03 00:51:51 2025
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