

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU110725\
 Data File : VU063682.D
 Acq On : 07 Nov 2025 12:57
 Operator : MD/SY
 Sample : Q3530-09
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 8 Sample Multiplier: 1

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

Quant Time: Nov 08 02:33:04 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

Manual Integrations APPROVED

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

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

Internal Standards						
1) Fluorobenzene	6.081	96	57176	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.611	95	23119	0.894	ug/l	0.00
Spiked Amount 1.000			Recovery	=	89.000%	
68) 1,2-Dichlorobenzene-d4	12.171	152	20020	0.863	ug/l	0.00
Spiked Amount 1.000			Recovery	=	86.000%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.374	85	3828	0.178	ug/l	93
3) Chloromethane	1.509	50	4193	0.207	ug/l	99
4) Vinyl Chloride	1.589	62	3880	0.189	ug/l	95
5) Bromomethane	1.840	94	3483	0.280	ug/l	97
6) Chloroethane	1.917	64	2515	0.199	ug/l	92
7) Trichlorofluoromethane	2.123	101	6155	0.206	ug/l	92
8) 1,1,2-Trichloro-1,2,2-...	2.557	101	3386	0.213	ug/l	97
9) 1,1-Dichloroethene	2.557	96	3531	0.229	ug/l	85
10) Iodomethane	2.695	142	2449	0.107	ug/l	97
11) Allyl Chloride	2.898	41	4641	0.193	ug/l	95
12) Acrylonitrile	3.284	53	1840m	0.483	ug/l	
13) Acetone	2.605	43	7512	1.115	ug/l	97
14) Carbon Disulfide	2.766	76	7610	0.175	ug/l #	91
15) Methylene Chloride	3.017	84	6113	0.309	ug/l	90
16) trans-1,2-Dichloroethene	3.322	96	4282	0.252	ug/l #	78
17) 1,1-Dichloroethane	3.827	63	7474	0.222	ug/l #	91
18) 2-Butanone	4.695	43	7387	1.034	ug/l	89
19) Cyclohexane	5.345	56	5161	0.201	ug/l	92
20) Methylcyclohexane	6.727	83	6198	0.193	ug/l	96
21) 2,2-Dichloropropane	4.631	77	5896	0.195	ug/l	92
22) cis-1,2-Dichloroethene	4.631	96	4777	0.247	ug/l	77
23) Diethyl Ether	2.361	59	2348	0.186	ug/l #	86
24) tert-Butyl Alcohol	3.165	59	5609	2.576	ug/l #	81
25) Methyl tert-Butyl Ether	3.345	73	9181	0.203	ug/l #	73
26) Bromochloromethane	4.939	128	1862	0.228	ug/l	87
27) Chloroform	5.058	83	7721	0.224	ug/l	92
28) 1,1,1-Trichloroethane	5.280	97	6158	0.203	ug/l	96
29) 1,1-Dichloropropene	5.489	75	5536	0.217	ug/l #	86
30) Carbon Tetrachloride	5.483	117	4405	0.183	ug/l	89
31) Isopropyl Ether	3.972	45	10561	0.198	ug/l	92
32) Ethyl-t-butyl ether	4.486	59	10159	0.198	ug/l #	66
33) Tert-Amyl methyl ether	5.923	73	8727	0.195	ug/l #	94
34) Propionitrile	4.763	54	2464m	1.765	ug/l	
35) Benzene	5.740	78	13719	0.191	ug/l	95
36) 1,2-Dichloroethane	5.766	62	4933	0.214	ug/l #	93
37) Trichloroethene	6.509	130	4057	0.198	ug/l	93
38) 1,2-Dichloropropane	6.766	63	3708	0.184	ug/l	99
39) Methacrylonitrile	4.968	41	2734m	0.393	ug/l	
40) Methyl acrylate	4.833	55	1962	0.194	ug/l #	83
41) Tetrahydrofuran	5.036	42	3196m	1.022	ug/l	
42) 1-Chlorobutane	5.422	56	6699	0.196	ug/l	98
43) Dibromomethane	6.891	93	2140	0.206	ug/l	93
44) Bromodichloromethane	7.084	83	4332	0.170	ug/l	90

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Quant Time: Nov 08 02:33:04 2025
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.788	43	12323	0.982	ug/l	93
46) t-1,4-Dichloro-2-butene	10.807	75	1841m	0.423	ug/l	
47) Methyl methacrylate	6.955	69	3178	0.332	ug/l	93
48) Ethyl methacrylate	8.325	69	3598m	0.185	ug/l	
49) Toluene	7.946	92	8827	0.182	ug/l	98
50) t-1,3-Dichloropropene	8.193	75	3452	0.156	ug/l #	87
51) cis-1,3-Dichloropropene	7.586	75	4523	0.163	ug/l	93
52) 1,1,2-Trichloroethane	8.377	97	2474	0.175	ug/l #	89
53) 1,3-Dichloropropane	8.557	76	4833	0.191	ug/l	97
54) 2-Hexanone	8.682	43	9689	0.914	ug/l	93
55) Dibromochloromethane	8.785	129	2363	0.142	ug/l	97
56) 1,2-Dibromoethane	8.901	107	2416	0.179	ug/l	100
58) Tetrachloroethene	8.525	164	3753	0.187	ug/l	89
59) Chlorobenzene	9.425	112	10990	0.209	ug/l	98
60) 1,1,1,2-Tetrachloroethane	9.512	131	2908	0.158	ug/l	95
61) Pentachloroethane	11.399	117	2144	0.168	ug/l	93
62) Hexachloroethane	12.450	117	1685	0.120	ug/l	93
63) Ethyl Benzene	9.547	91	17283	0.181	ug/l	98
64) m/p-Xylenes	9.672	106	13272	0.373	ug/l	92
65) o-Xylene	10.078	106	6763	0.194	ug/l	99
66) Styrene	10.097	104	10242	0.181	ug/l	97
67) Bromoform	10.270	173	1137	0.126	ug/l #	94
69) Isopropylbenzene	10.460	105	16732	0.194	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.762	83	3346	0.188	ug/l #	93
71) 1,2,3-Trichloropropane	10.801	75	2714m	0.176	ug/l	
72) Bromobenzene	10.762	156	4197	0.202	ug/l	82
73) n-propylbenzene	10.885	120	4790	0.196	ug/l	94
74) 2-Chlorotoluene	10.962	126	4118	0.194	ug/l	95
75) 1,3,5-Trimethylbenzene	11.065	105	14218	0.179	ug/l	98
76) 4-Chlorotoluene	11.077	126	4193	0.197	ug/l	98
77) tert-Butylbenzene	11.396	119	14949	0.192	ug/l	99
78) 1,2,4-Trimethylbenzene	11.447	105	14675	0.192	ug/l	99
79) sec-Butylbenzene	11.621	105	19647	0.192	ug/l	99
80) Nitrobenzene	13.206	77	643	1.029	ug/l #	46
81) p-Isopropyltoluene	11.769	119	15464	0.184	ug/l	100
82) 1,3-Dichlorobenzene	11.727	146	8737	0.217	ug/l	98
83) 1,4-Dichlorobenzene	11.817	146	9547	0.238	ug/l	97
84) n-Butylbenzene	12.187	91	16684	0.222	ug/l	98
85) 1,2-Dichlorobenzene	12.190	146	7880	0.207	ug/l	96
86) 1,2-Dibromo-3-Chloropr...	12.971	75	387	0.131	ug/l #	81
87) 1,2,4-Trichlorobenzene	13.820	180	6299	0.268	ug/l	93
88) Hexachlorobutadiene	13.997	225	2928	0.209	ug/l	93
89) Naphthalene	14.068	128	17235	0.381	ug/l	98
90) 1,2,3-Trichlorobenzene	14.309	180	6318	0.294	ug/l	96

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

