

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072723\
 Data File : VU054901.D
 Acq On : 27 Jul 2023 18:07
 Operator : MD/SY
 Sample : 03572-09
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-WATER-03-QT3-2023

Quant Time: Jul 28 06:50:05 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U072523DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Jul 28 06:40:03 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/28/2023
 Supervised By : Mahesh Dadoda 07/31/2023

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

Internal Standards						
1) Fluorobenzene	6.113	96	24744	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.631	95	8110	1.081	ug/l	0.00
Spiked Amount 1.000			Recovery	=	108.000%	
68) 1,2-Dichlorobenzene-d4	12.197	152	8281	0.977	ug/l	0.00
Spiked Amount 1.000			Recovery	=	98.000%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.384	85	1565	0.332	ug/l	83
3) Chloromethane	1.515	50	2211	0.418	ug/l	96
4) Vinyl Chloride	1.599	62	2660	0.376	ug/l	98
5) Bromomethane	1.853	94	2324	0.414	ug/l	98
6) Chloroethane	1.930	64	2141	0.293	ug/l	# 82
7) Trichlorofluoromethane	2.136	101	5590	0.337	ug/l	97
8) 1,1,2-Trichloro-1,2,2-...	2.580	101	1819	0.338	ug/l	96
9) 1,1-Dichloroethene	2.580	96	1751	0.410	ug/l	88
10) Iodomethane	2.718	142	2099	0.315	ug/l	92
11) Allyl Chloride	2.921	41	2261	0.443	ug/l	96
12) Acrylonitrile	3.351	53	590	0.550	ug/l	# 78
13) Acetone	2.647	43	2394m	2.136	ug/l	
14) Carbon Disulfide	2.785	76	2799	0.378	ug/l	# 85
15) Methylene Chloride	3.043	84	4280	0.718	ug/l	98
16) trans-1,2-Dichloroethene	3.351	96	1443	0.310	ug/l	# 82
17) 1,1-Dichloroethane	3.869	63	3891	0.374	ug/l	# 88
18) 2-Butanone	4.747	43	2759m	1.952	ug/l	
19) Cyclohexane	5.383	56	2416m	0.413	ug/l	
20) Methylcyclohexane	6.763	83	2646	0.338	ug/l	92
21) 2,2-Dichloropropane	4.660	77	3088	0.320	ug/l	98
22) cis-1,2-Dichloroethene	4.676	96	2360	0.382	ug/l	89
23) Diethyl Ether	2.374	59	2582	0.410	ug/l	95
24) tert-Butyl Alcohol	3.197	59	2152m	3.670	ug/l	
25) Methyl tert-Butyl Ether	3.367	73	5810	0.440	ug/l	# 80
26) Bromochloromethane	4.985	128	632	0.249	ug/l	# 60
27) Chloroform	5.091	83	4246	0.380	ug/l	97
28) 1,1,1-Trichloroethane	5.319	97	3578	0.371	ug/l	94
29) 1,1-Dichloropropene	5.522	75	2583	0.363	ug/l	# 86
30) Carbon Tetrachloride	5.522	117	2738	0.340	ug/l	96
31) Isopropyl Ether	3.982	45	5973m	0.389	ug/l	
32) Ethyl-t-butyl ether	4.502	59	6336	0.401	ug/l	# 56
33) Tert-Amyl methyl ether	5.936	73	5686	0.380	ug/l	# 84
34) Propionitrile	4.843	54	490m	1.257	ug/l	
35) Benzene	5.772	78	7667	0.344	ug/l	99
36) 1,2-Dichloroethane	5.798	62	2423	0.382	ug/l	# 89
37) Trichloroethene	6.547	130	2504	0.418	ug/l	99
38) 1,2-Dichloropropane	6.792	63	2564	0.407	ug/l	# 83
39) Methacrylonitrile	4.988	41	450m	0.288	ug/l	
40) Methyl acrylate	4.891	55	1051m	0.423	ug/l	
41) Tetrahydrofuran	5.078	42	715m	0.800	ug/l	
42) 1-Chlorobutane	5.457	56	3502	0.376	ug/l	97
43) Dibromomethane	6.917	93	1067m	0.361	ug/l	
44) Bromodichloromethane	7.104	83	3168	0.384	ug/l	# 87

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.795	43	7237	2.096	ug/l	92
46) t-1,4-Dichloro-2-butene	10.827	75	1226m	0.882	ug/l	
47) Methyl methacrylate	6.962	69	1853	0.685	ug/l #	85
48) Ethyl methacrylate	8.332	69	2141	0.391	ug/l	91
49) Toluene	7.969	92	5552	0.391	ug/l	99
50) t-1,3-Dichloropropene	8.216	75	2507	0.342	ug/l #	88
51) cis-1,3-Dichloropropene	7.612	75	3138	0.349	ug/l	93
52) 1,1,2-Trichloroethane	8.399	97	1726	0.368	ug/l #	84
53) 1,3-Dichloropropane	8.576	76	3152	0.415	ug/l	93
54) 2-Hexanone	8.692	43	4914	2.003	ug/l	100
55) Dibromochloromethane	8.811	129	1830	0.340	ug/l	94
56) 1,2-Dibromoethane	8.927	107	1586	0.399	ug/l	94
58) Tetrachloroethene	8.550	164	1967	0.376	ug/l #	81
59) Chlorobenzene	9.451	112	6416	0.372	ug/l	90
60) 1,1,1,2-Tetrachloroethane	9.534	131	2147	0.353	ug/l	92
61) Pentachloroethane	11.431	117	1403	0.295	ug/l	100
62) Hexachloroethane	12.473	117	1279	0.262	ug/l	97
63) Ethyl Benzene	9.567	91	11128	0.385	ug/l	95
64) m/p-Xylenes	9.695	106	7356	0.680	ug/l	88
65) o-Xylene	10.097	106	3677	0.331	ug/l	83
66) Styrene	10.116	104	6182	0.348	ug/l	97
67) Bromoform	10.296	173	1117m	0.401	ug/l	
69) Isopropylbenzene	10.480	105	11302	0.379	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.782	83	2149	0.370	ug/l #	98
71) 1,2,3-Trichloropropane	10.821	75	2000m	0.484	ug/l	
72) Bromobenzene	10.785	156	2665	0.401	ug/l	94
73) n-propylbenzene	10.907	120	2744	0.344	ug/l	96
74) 2-Chlorotoluene	10.985	126	2607	0.377	ug/l	96
75) 1,3,5-Trimethylbenzene	11.087	105	9037	0.374	ug/l	93
76) 4-Chlorotoluene	11.100	126	2931	0.408	ug/l	88
77) tert-Butylbenzene	11.419	119	8695	0.346	ug/l	96
78) 1,2,4-Trimethylbenzene	11.470	105	7477	0.302	ug/l	85
79) sec-Butylbenzene	11.644	105	11504	0.352	ug/l	95
81) p-Isopropyltoluene	11.792	119	7688	0.298	ug/l	97
82) 1,3-Dichlorobenzene	11.747	146	5344	0.378	ug/l	92
83) 1,4-Dichlorobenzene	11.840	146	5619	0.399	ug/l	99
84) n-Butylbenzene	12.210	91	7557	0.326	ug/l #	95
85) 1,2-Dichlorobenzene	12.213	146	5528	0.408	ug/l	98
87) 1,2,4-Trichlorobenzene	13.843	180	3220	0.373	ug/l	98
88) Hexachlorobutadiene	14.017	225	1652	0.358	ug/l	93
89) Naphthalene	14.087	128	5033	0.376	ug/l #	91
90) 1,2,3-Trichlorobenzene	14.332	180	3268	0.426	ug/l	97

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

