

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072823\
 Data File : VU054907.D
 Acq On : 28 Jul 2023 12:00
 Operator : MD/SY
 Sample : VU0728WBS01
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU0728WBS01

Manual Integrations
 APPROVED

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

Quant Time: Jul 28 23:11:21 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U072523DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Jul 26 09:45:35 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Fluorobenzene	6.113	96	26578	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.634	95	8099	1.005	ug/l	0.00
Spiked Amount 1.000			Recovery	=	101.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	9654	1.060	ug/l	0.00
Spiked Amount 1.000			Recovery	=	106.000%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.383	85	9065	1.791	ug/l	95
3) Chloromethane	1.518	50	10680	1.878	ug/l	98
4) Vinyl Chloride	1.599	62	14496	1.909	ug/l	93
5) Bromomethane	1.853	94	11680	1.939	ug/l	98
6) Chloroethane	1.930	64	12019	1.532	ug/l	100
7) Trichlorofluoromethane	2.133	101	29483	1.653	ug/l	94
8) 1,1,2-Trichloro-1,2,2-...	2.576	101	10971	1.898	ug/l	97
9) 1,1-Dichloroethene	2.576	96	8827	1.924	ug/l	98
10) Iodomethane	2.718	142	11658	1.627	ug/l	98
11) Allyl Chloride	2.920	41	10018	1.827	ug/l	93
12) Acrylonitrile	3.332	53	4553	3.954	ug/l	# 86
13) Acetone	2.644	43	16144	13.413	ug/l	88
14) Carbon Disulfide	2.788	76	14127	1.777	ug/l	99
15) Methylene Chloride	3.039	84	14650	2.463	ug/l	97
16) trans-1,2-Dichloroethene	3.351	96	9757	1.953	ug/l	98
17) 1,1-Dichloroethane	3.866	63	22016	1.971	ug/l	96
18) 2-Butanone	4.718	43	18063	11.896	ug/l	100
19) Cyclohexane	5.386	56	13408m	2.133	ug/l	
20) Methylcyclohexane	6.759	83	17952	2.136	ug/l	93
21) 2,2-Dichloropropane	4.660	77	18376	1.774	ug/l	100
22) cis-1,2-Dichloroethene	4.663	96	12399	1.868	ug/l	95
23) Diethyl Ether	2.374	59	12288	1.815	ug/l	94
24) tert-Butyl Alcohol	3.223	59	11302m	17.946	ug/l	
25) Methyl tert-Butyl Ether	3.364	73	27687	1.950	ug/l	98
26) Bromochloromethane	4.972	128	5551	2.039	ug/l	96
27) Chloroform	5.087	83	24654	2.055	ug/l	94
28) 1,1,1-Trichloroethane	5.309	97	20631	1.991	ug/l	97
29) 1,1-Dichloropropene	5.525	75	14605	1.911	ug/l	96
30) Carbon Tetrachloride	5.521	117	15842	1.831	ug/l	92
31) Isopropyl Ether	3.991	45	31256	1.895	ug/l	98
32) Ethyl-t-butyl ether	4.496	59	32867	1.936	ug/l	# 67
33) Tert-Amyl methyl ether	5.939	73	30054	1.872	ug/l	99
34) Propionitrile	4.808	54	4372m	10.444	ug/l	
35) Benzene	5.772	78	44934	1.877	ug/l	100
36) 1,2-Dichloroethane	5.795	62	13078	1.920	ug/l	100
37) Trichloroethene	6.541	130	12557	1.950	ug/l	91
38) 1,2-Dichloropropane	6.788	63	13772	2.035	ug/l	100
39) Methacrylonitrile	4.981	41	3214m	1.915	ug/l	
40) Methyl acrylate	4.866	55	4948m	1.854	ug/l	
41) Tetrahydrofuran	5.078	42	3565m	3.715	ug/l	
42) 1-Chlorobutane	5.457	56	18684	1.867	ug/l	97
43) Dibromomethane	6.914	93	6068	1.909	ug/l	97
44) Bromodichloromethane	7.103	83	16860	1.904	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.792	43	35649	9.612	ug/l	97
46) t-1,4-Dichloro-2-butene	10.830	75	6506m	4.360	ug/l	
47) Methyl methacrylate	6.962	69	11477	3.950	ug/l	95
48) Ethyl methacrylate	8.335	69	11075	1.884	ug/l	97
49) Toluene	7.968	92	30076	1.972	ug/l	93
50) t-1,3-Dichloropropene	8.209	75	14040	1.786	ug/l	98
51) cis-1,3-Dichloropropene	7.605	75	18022	1.865	ug/l	97
52) 1,1,2-Trichloroethane	8.399	97	9659	1.917	ug/l	98
53) 1,3-Dichloropropane	8.573	76	16219	1.990	ug/l	92
54) 2-Hexanone	8.685	43	27559	10.457	ug/l	97
55) Dibromochloromethane	8.808	129	10185	1.764	ug/l	88
56) 1,2-Dibromoethane	8.920	107	8693	2.036	ug/l	98
58) Tetrachloroethene	8.550	164	11614	2.067	ug/l	96
59) Chlorobenzene	9.444	112	34384	1.858	ug/l	98
60) 1,1,1,2-Tetrachloroethane	9.531	131	12276	1.879	ug/l	93
61) Pentachloroethane	11.425	117	9149	1.792	ug/l	99
62) Hexachloroethane	12.473	117	9365	1.784	ug/l	100
63) Ethyl Benzene	9.570	91	60867	1.960	ug/l	97
64) m/p-Xylenes	9.692	106	45260	3.896	ug/l	96
65) o-Xylene	10.097	106	22062	1.849	ug/l	95
66) Styrene	10.113	104	35415	1.856	ug/l	97
67) Bromoform	10.290	173	5837	1.950	ug/l #	95
69) Isopropylbenzene	10.483	105	61605	1.923	ug/l	98
70) 1,1,2,2-Tetrachloroethane	10.779	83	11966	1.919	ug/l	98
71) 1,2,3-Trichloropropane	10.820	75	9411m	2.118	ug/l	
72) Bromobenzene	10.782	156	14670	2.057	ug/l	97
73) n-propylbenzene	10.904	120	16323	1.904	ug/l	96
74) 2-Chlorotoluene	10.984	126	15024	2.024	ug/l	95
75) 1,3,5-Trimethylbenzene	11.087	105	50231	1.936	ug/l	99
76) 4-Chlorotoluene	11.097	126	15045	1.951	ug/l	98
77) tert-Butylbenzene	11.418	119	49918	1.850	ug/l	98
78) 1,2,4-Trimethylbenzene	11.467	105	50141	1.888	ug/l	100
79) sec-Butylbenzene	11.643	105	66083	1.884	ug/l	99
80) Nitrobenzene	13.213	77	1264	7.713	ug/l #	69
81) p-Isopropyltoluene	11.791	119	52021	1.879	ug/l	99
82) 1,3-Dichlorobenzene	11.746	146	30120	1.984	ug/l	97
83) 1,4-Dichlorobenzene	11.836	146	29855	1.972	ug/l	98
84) n-Butylbenzene	12.206	91	42864	1.724	ug/l	99
85) 1,2-Dichlorobenzene	12.213	146	28500	1.958	ug/l	97
86) 1,2-Dibromo-3-Chloropr...	12.991	75	1608	1.939	ug/l #	66
87) 1,2,4-Trichlorobenzene	13.839	180	16742	1.803	ug/l	97
88) Hexachlorobutadiene	14.016	225	9138	1.846	ug/l	97
89) Naphthalene	14.087	128	24799	1.725	ug/l	97
90) 1,2,3-Trichlorobenzene	14.328	180	14003	1.700	ug/l	96

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

