

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU091123\
 Data File : VU055228.D
 Acq On : 11 Sep 2023 10:26
 Operator : MD/SY
 Sample : VSTDICC005
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/12/2023
 Supervised By : Mahesh Dadoda 09/12/2023

Quant Time: Sep 11 10:52:41 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U091123DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Mon Sep 11 10:29:32 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Fluorobenzene	6.113	96	60018	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.631	95	23665	1.092	ug/l	0.00
Spiked Amount 1.000			Recovery	=	109.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	23374	1.075	ug/l	0.00
Spiked Amount 1.000			Recovery	=	107.000%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.383	85	100385	4.627	ug/l	98
3) Chloromethane	1.515	50	104814	4.742	ug/l	100
4) Vinyl Chloride	1.602	62	109571	4.691	ug/l	98
5) Bromomethane	1.853	94	82796	4.186	ug/l	97
6) Chloroethane	1.930	64	71622	4.797	ug/l	97
7) Trichlorofluoromethane	2.136	101	156997	4.489	ug/l	99
8) 1,1,2-Trichloro-1,2,2-...	2.576	101	79760	4.601	ug/l	97
9) 1,1-Dichloroethene	2.576	96	70801	4.465	ug/l	97
10) Iodomethane	2.718	142	104238	6.482	ug/l	97
11) Allyl Chloride	2.920	41	89403	4.995	ug/l	# 81
12) Acrylonitrile	3.316	53	26848	8.717	ug/l	# 94
13) Acetone	2.624	43	107571	17.806	ug/l	96
14) Carbon Disulfide	2.792	76	230112	4.734	ug/l	99
15) Methylene Chloride	3.042	84	82557	2.206	ug/l	98
16) trans-1,2-Dichloroethene	3.351	96	81997	5.005	ug/l	97
17) 1,1-Dichloroethane	3.866	63	163223	5.459	ug/l	99
18) 2-Butanone	4.702	43	132136	21.491	ug/l	98
19) Cyclohexane	5.383	56	121464	4.933	ug/l	86
20) Methylcyclohexane	6.759	83	149962	4.876	ug/l	95
21) 2,2-Dichloropropane	4.660	77	134339	5.248	ug/l	99
22) cis-1,2-Dichloroethene	4.663	96	100443	5.641	ug/l	98
23) Diethyl Ether	2.374	59	60595	4.815	ug/l	94
24) tert-Butyl Alcohol	3.181	59	46900m	40.996	ug/l	
25) Methyl tert-Butyl Ether	3.361	73	165270	4.702	ug/l	99
26) Bromochloromethane	4.972	128	40132	5.595	ug/l	100
27) Chloroform	5.084	83	174382	5.618	ug/l	96
28) 1,1,1-Trichloroethane	5.312	97	151220	5.651	ug/l	99
29) 1,1-Dichloropropene	5.525	75	126056	5.444	ug/l	99
30) Carbon Tetrachloride	5.521	117	131718	6.185	ug/l	96
31) Isopropyl Ether	3.988	45	221193	5.377	ug/l	98
32) Ethyl-t-butyl ether	4.496	59	210316	4.977	ug/l	98
33) Tert-Amyl methyl ether	5.936	73	187981	5.003	ug/l	97
34) Propionitrile	4.779	54	27336	26.374	ug/l	# 17
35) Benzene	5.772	78	372931	5.505	ug/l	100
36) 1,2-Dichloroethane	5.792	62	108040	5.552	ug/l	99
37) Trichloroethene	6.541	130	103663	6.085	ug/l	98
38) 1,2-Dichloropropane	6.788	63	96966	5.587	ug/l	97
39) Methacrylonitrile	4.975	41	21614	5.109	ug/l	96
40) Methyl acrylate	4.849	55	35828	4.671	ug/l	98
41) Tetrahydrofuran	5.055	42	22081	9.997	ug/l	92
42) 1-Chlorobutane	5.454	56	166681	5.412	ug/l	97
43) Dibromomethane	6.917	93	46572	5.632	ug/l	98
44) Bromodichloromethane	7.103	83	120348	5.820	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.788	43	222372	25.926	ug/l	98
46) t-1,4-Dichloro-2-butene	10.827	75	41861m	8.902	ug/l	
47) Methyl methacrylate	6.959	69	76194	10.022	ug/l	96
48) Ethyl methacrylate	8.332	69	70921	4.810	ug/l	97
49) Toluene	7.968	92	229839	5.536	ug/l	99
50) t-1,3-Dichloropropene	8.209	75	99293	5.184	ug/l	98
51) cis-1,3-Dichloropropene	7.605	75	125346	5.284	ug/l	97
52) 1,1,2-Trichloroethane	8.396	97	63634	5.307	ug/l	98
53) 1,3-Dichloropropane	8.573	76	111797	5.405	ug/l	100
54) 2-Hexanone	8.682	43	199947	22.219	ug/l	99
55) Dibromochloromethane	8.807	129	75073	6.151	ug/l	100
56) 1,2-Dibromoethane	8.923	107	59948	5.427	ug/l	100
58) Tetrachloroethene	8.550	164	116625	7.321	ug/l	96
59) Chlorobenzene	9.444	112	253471	5.545	ug/l	100
60) 1,1,1,2-Tetrachloroethane	9.531	131	81693	5.880	ug/l	99
61) Pentachloroethane	11.422	117	39394	4.036	ug/l #	81
62) Hexachloroethane	12.473	117	63209	5.630	ug/l	94
63) Ethyl Benzene	9.570	91	436530	5.446	ug/l	100
64) m/p-Xylenes	9.692	106	345714	11.280	ug/l	98
65) o-Xylene	10.097	106	164532	5.485	ug/l	98
66) Styrene	10.113	104	264213	5.730	ug/l	99
67) Bromoform	10.290	173	37606	6.547	ug/l	97
69) Isopropylbenzene	10.483	105	431376	5.493	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.778	83	64718	4.484	ug/l	98
71) 1,2,3-Trichloropropane	10.820	75	59277m	5.439	ug/l	
72) Bromobenzene	10.782	156	96815	5.884	ug/l	98
73) n-propylbenzene	10.904	120	117589	5.667	ug/l	97
74) 2-Chlorotoluene	10.984	126	103207	5.754	ug/l	100
75) 1,3,5-Trimethylbenzene	11.087	105	378960	5.746	ug/l	100
76) 4-Chlorotoluene	11.097	126	108136	5.806	ug/l	100
77) tert-Butylbenzene	11.418	119	322842	5.281	ug/l	96
78) 1,2,4-Trimethylbenzene	11.467	105	386610	5.756	ug/l	100
79) sec-Butylbenzene	11.640	105	485240	5.511	ug/l	99
80) Nitrobenzene	13.212	77	6976	19.237	ug/l #	96
81) p-Isopropyltoluene	11.791	119	398578	5.763	ug/l	100
82) 1,3-Dichlorobenzene	11.743	146	208291	5.940	ug/l	99
83) 1,4-Dichlorobenzene	11.833	146	208438	5.874	ug/l	99
84) n-Butylbenzene	12.206	91	348655	5.102	ug/l	98
85) 1,2-Dichlorobenzene	12.209	146	191015	5.749	ug/l	99
86) 1,2-Dibromo-3-Chloropr...	12.994	75	11418	5.209	ug/l	92
87) 1,2,4-Trichlorobenzene	13.839	180	107907	5.568	ug/l	98
88) Hexachlorobutadiene	14.020	225	66874	7.215	ug/l	97
89) Naphthalene	14.087	128	152896	3.921	ug/l	99
90) 1,2,3-Trichlorobenzene	14.328	180	94196	5.641	ug/l	99

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

