

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU031822\
 Data File : VU047608.D
 Acq On : 18 Mar 2022 10:02
 Operator : SY/MD
 Sample : VSTDIC0.5
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDIC0.5

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/31/2022
 Supervised By : Mahesh Dadoda 03/31/2022

Quant Time: Mar 18 12:19:23 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\524U031822DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Fri Mar 18 12:19:06 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Fluorobenzene	6.118	96	29917	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.636	95	11344	0.979	ug/l	0.00
Spiked Amount 1.000			Recovery	=	98.000%	
68) 1,2-Dichlorobenzene-d4	12.195	152	12717	1.054	ug/l	0.00
Spiked Amount 1.000			Recovery	=	105.000%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.388	85	5143	0.516	ug/l	99
3) Chloromethane	1.530	50	5178	0.505	ug/l	93
4) Vinyl Chloride	1.607	62	4945	0.489	ug/l	99
5) Bromomethane	1.861	94	2984	0.452	ug/l	92
6) Chloroethane	1.938	64	2947	0.507	ug/l	99
7) Trichlorofluoromethane	2.147	101	6641	0.557	ug/l	94
8) 1,1,2-Trichloro-1,2,2-...	2.591	101	3660	0.533	ug/l	90
9) 1,1-Dichloroethene	2.588	96	3730	0.527	ug/l	87
11) Allyl Chloride	2.928	41	4931	0.447	ug/l	93
12) Acrylonitrile	3.324	53	1578	0.760	ug/l	# 80
13) Acetone	2.642	43	2736	2.266	ug/l	93
14) Carbon Disulfide	2.800	76	11983	0.501	ug/l	99
15) Methylene Chloride	3.051	84	8530	1.074	ug/l	89
16) trans-1,2-Dichloroethene	3.356	96	4188	0.561	ug/l	88
17) 1,1-Dichloroethane	3.874	63	6904	0.505	ug/l	# 95
18) 2-Butanone	4.732	43	3347	1.601	ug/l	77
19) Cyclohexane	5.391	56	4514m	0.356	ug/l	
20) Methylcyclohexane	6.764	83	4864	0.348	ug/l	95
21) 2,2-Dichloropropane	4.674	77	5956	0.487	ug/l	98
22) cis-1,2-Dichloroethene	4.681	96	4309	0.502	ug/l	85
23) Diethyl Ether	2.385	59	2838	0.497	ug/l	96
25) Methyl tert-Butyl Ether	3.372	73	9516	0.480	ug/l	# 91
26) Bromochloromethane	4.986	128	2428	0.629	ug/l	75
27) Chloroform	5.096	83	7456	0.537	ug/l	86
28) 1,1,1-Trichloroethane	5.321	97	6453	0.537	ug/l	93
29) 1,1-Dichloropropene	5.533	75	4679	0.426	ug/l	96
30) Carbon Tetrachloride	5.526	117	5390	0.510	ug/l	94
31) Isopropyl Ether	4.006	45	8508	0.389	ug/l	87
32) Ethyl-t-butyl ether	4.510	59	8531	0.384	ug/l	94
33) Tert-Amyl methyl ether	5.948	73	7820	0.382	ug/l	98
34) Propionitrile	4.809	54	784m	1.354	ug/l	
35) Benzene	5.777	78	14738	0.478	ug/l	99
36) 1,2-Dichloroethane	5.800	62	4622	0.495	ug/l	# 91
37) Trichloroethene	6.549	130	4231	0.496	ug/l	90
38) 1,2-Dichloropropane	6.796	63	3857	0.473	ug/l	98
39) Methacrylonitrile	4.983	41	1013	0.360	ug/l	# 88
40) Methyl acrylate	4.867	55	1708m	0.360	ug/l	
41) Tetrahydrofuran	5.073	42	950	0.664	ug/l	92
42) 1-Chlorobutane	5.462	56	6322	0.428	ug/l	98
43) Dibromomethane	6.925	93	2427	0.552	ug/l	91
44) Bromodichloromethane	7.112	83	5440	0.523	ug/l	# 92
45) 4-Methyl-2-Pentanone	7.803	43	9937	1.671	ug/l	99
46) t-1,4-Dichloro-2-butene	10.838	75	1941m	0.750	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) Methyl methacrylate	6.970	69	3049	0.661	ug/l	91
48) Ethyl methacrylate	8.340	69	3034	0.325	ug/l	84
49) Toluene	7.970	92	8134	0.409	ug/l	88
50) t-1,3-Dichloropropene	8.218	75	4830	0.429	ug/l #	69
51) cis-1,3-Dichloropropene	7.613	75	5016	0.397	ug/l	96
52) 1,1,2-Trichloroethane	8.404	97	3172	0.506	ug/l	97
53) 1,3-Dichloropropane	8.581	76	5053	0.451	ug/l	99
54) 2-Hexanone	8.694	43	8010	1.808	ug/l	89
55) Dibromochloromethane	8.812	129	3910	0.513	ug/l	97
56) 1,2-Dibromoethane	8.931	107	3192	0.503	ug/l	98
58) Tetrachloroethene	8.555	164	3978	0.505	ug/l	88
59) Chlorobenzene	9.452	112	10129	0.457	ug/l	98
60) 1,1,1,2-Tetrachloroethane	9.539	131	4216	0.553	ug/l	98
61) Pentachloroethane	11.430	117	3440	0.595	ug/l	83
62) Hexachloroethane	12.478	117	3354	0.537	ug/l #	73
63) Ethyl Benzene	9.571	91	14388	0.369	ug/l	99
64) m/p-Xylenes	9.697	106	10965	0.738	ug/l	93
65) o-Xylene	10.102	106	5118	0.356	ug/l	98
66) Styrene	10.118	104	8487	0.348	ug/l	95
67) Bromoform	10.295	173	2561	0.530	ug/l #	94
69) Isopropylbenzene	10.484	105	13673	0.353	ug/l	95
70) 1,1,2,2-Tetrachloroethane	10.787	83	4341	0.512	ug/l	97
71) 1,2,3-Trichloropropane	10.828	75	3287m	0.459	ug/l	
72) Bromobenzene	10.787	156	4627	0.490	ug/l	78
73) n-propylbenzene	10.909	120	4019	0.377	ug/l	85
74) 2-Chlorotoluene	10.989	126	3722	0.410	ug/l	86
75) 1,3,5-Trimethylbenzene	11.089	105	10852	0.342	ug/l	99
76) 4-Chlorotoluene	11.102	126	3827	0.401	ug/l	79
77) tert-Butylbenzene	11.423	119	12090	0.380	ug/l	90
78) 1,2,4-Trimethylbenzene	11.472	105	11127	0.344	ug/l	97
79) sec-Butylbenzene	11.645	105	15254	0.361	ug/l	98
80) Nitrobenzene	13.221	77	715	1.746	ug/l #	77
81) p-Isopropyltoluene	11.796	119	12127	0.339	ug/l	97
82) 1,3-Dichlorobenzene	11.748	146	8935	0.486	ug/l	94
83) 1,4-Dichlorobenzene	11.841	146	9065	0.489	ug/l	96
84) n-Butylbenzene	12.211	91	11306	0.329	ug/l	97
85) 1,2-Dichlorobenzene	12.214	146	8800	0.497	ug/l	96
86) 1,2-Dibromo-3-Chloropr...	13.002	75	655	0.421	ug/l #	81
87) 1,2,4-Trichlorobenzene	13.844	180	5608	0.403	ug/l	93
88) Hexachlorobutadiene	14.021	225	3874	0.545	ug/l	96
90) 1,2,3-Trichlorobenzene	14.333	180	5373	0.431	ug/l	96

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

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