

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU072723\
 Data File : VU054903.D
 Acq On : 27 Jul 2023 18:56
 Operator : MD/SY
 Sample : VSTDCCC010
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTDCCC010EC

Manual Integrations
 APPROVED

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

Quant Time: Jul 28 05:49:35 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	26552	1.000	ug/l	# 0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.630	95	8156	1.013	ug/l	0.00
Spiked Amount	1.000		Recovery	=	101.000%	
68) 1,2-Dichlorobenzene-d4	12.190	152	9706	1.067	ug/l	0.00
Spiked Amount	1.000		Recovery	=	107.000%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.383	85	47037	9.303	ug/l	94
3) Chloromethane	1.518	50	53700	9.454	ug/l	96
4) Vinyl Chloride	1.602	62	72940	9.616	ug/l	99
5) Bromomethane	1.856	94	53398	8.873	ug/l	98
6) Chloroethane	1.930	64	71616	9.135	ug/l	98
7) Trichlorofluoromethane	2.132	101	150547	8.448	ug/l	97
8) 1,1,2-Trichloro-1,2,2-...	2.576	101	53375	9.242	ug/l	98
9) 1,1-Dichloroethene	2.576	96	44128	9.626	ug/l	100
10) Iodomethane	2.718	142	71959	10.055	ug/l	99
11) Allyl Chloride	2.920	41	49555	9.045	ug/l	98
12) Acrylonitrile	3.322	53	25282	21.976	ug/l	99
13) Acetone	2.640	43	47837m	39.783	ug/l	
14) Carbon Disulfide	2.785	76	68849	8.669	ug/l	99
15) Methylene Chloride	3.039	84	65061	11.127	ug/l	98
16) trans-1,2-Dichloroethene	3.348	96	49455	9.910	ug/l	93
17) 1,1-Dichloroethane	3.862	63	109463	9.807	ug/l	96
18) 2-Butanone	4.711	43	79619	52.489	ug/l	95
19) Cyclohexane	5.383	56	64988m	10.348	ug/l	
20) Methylcyclohexane	6.759	83	79293	9.442	ug/l	98
21) 2,2-Dichloropropane	4.660	77	84641	8.181	ug/l	98
22) cis-1,2-Dichloroethene	4.660	96	65262	9.840	ug/l	97
23) Diethyl Ether	2.373	59	68009	10.056	ug/l	99
24) tert-Butyl Alcohol	3.219	59	63118m	100.318	ug/l	
25) Methyl tert-Butyl Ether	3.361	73	153660	10.832	ug/l	96
26) Bromochloromethane	4.968	128	28662	10.538	ug/l	97
27) Chloroform	5.084	83	123858	10.333	ug/l	100
28) 1,1,1-Trichloroethane	5.312	97	99529	9.614	ug/l	97
29) 1,1-Dichloropropene	5.521	75	72459	9.488	ug/l	97
30) Carbon Tetrachloride	5.521	117	83792	9.696	ug/l	97
31) Isopropyl Ether	3.988	45	164349	9.976	ug/l	100
32) Ethyl-t-butyl ether	4.496	59	172023	10.141	ug/l	98
33) Tert-Amyl methyl ether	5.936	73	168075	10.480	ug/l	100
34) Propionitrile	4.788	54	26728	63.913	ug/l #	94
35) Benzene	5.769	78	235636	9.853	ug/l	99
36) 1,2-Dichloroethane	5.791	62	70643	10.384	ug/l	99
37) Trichloroethene	6.541	130	65342	10.159	ug/l	99
38) 1,2-Dichloropropane	6.788	63	68711	10.164	ug/l	95
39) Methacrylonitrile	4.971	41	17907	10.681	ug/l	98
40) Methyl acrylate	4.846	55	30148	11.309	ug/l	95
41) Tetrahydrofuran	5.061	42	19813	20.668	ug/l	96
42) 1-Chlorobutane	5.454	56	94133	9.414	ug/l	98
43) Dibromomethane	6.917	93	34141	10.752	ug/l	97
44) Bromodichloromethane	7.103	83	93423	10.560	ug/l #	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.788	43	219629	59.277	ug/l	100
46) t-1,4-Dichloro-2-butene	10.833	75	30493m	20.454	ug/l	
47) Methyl methacrylate	6.959	69	68466	23.584	ug/l	99
48) Ethyl methacrylate	8.331	69	69387	11.817	ug/l	97
49) Toluene	7.965	92	154660	10.152	ug/l	98
50) t-1,3-Dichloropropene	8.209	75	83017	10.569	ug/l	100
51) cis-1,3-Dichloropropene	7.605	75	96693	10.015	ug/l	97
52) 1,1,2-Trichloroethane	8.396	97	53809	10.689	ug/l	94
53) 1,3-Dichloropropane	8.573	76	89080	10.939	ug/l	96
54) 2-Hexanone	8.682	43	149409	56.750	ug/l	99
55) Dibromochloromethane	8.807	129	62981	10.919	ug/l	99
56) 1,2-Dibromoethane	8.920	107	48655	11.405	ug/l	98
58) Tetrachloroethene	8.550	164	58442	10.409	ug/l	98
59) Chlorobenzene	9.444	112	186222	10.073	ug/l	99
60) 1,1,1,2-Tetrachloroethane	9.531	131	68090	10.432	ug/l	96
61) Pentachloroethane	11.425	117	50907	9.984	ug/l	98
62) Hexachloroethane	12.473	117	55301	10.546	ug/l	97
63) Ethyl Benzene	9.566	91	319336	10.294	ug/l	99
64) m/p-Xylenes	9.692	106	241961	20.847	ug/l	100
65) o-Xylene	10.097	106	120488	10.107	ug/l	99
66) Styrene	10.113	104	204662	10.737	ug/l	99
67) Bromoform	10.290	173	36286	12.132	ug/l	100
69) Isopropylbenzene	10.483	105	328294	10.258	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.778	83	70358	11.292	ug/l	99
71) 1,2,3-Trichloropropane	10.820	75	46257m	10.422	ug/l	
72) Bromobenzene	10.778	156	76333	10.712	ug/l	99
73) n-propylbenzene	10.904	120	88137	10.290	ug/l	97
74) 2-Chlorotoluene	10.984	126	78128	10.537	ug/l	99
75) 1,3,5-Trimethylbenzene	11.084	105	273597	10.556	ug/l	100
76) 4-Chlorotoluene	11.093	126	81933	10.636	ug/l	98
77) tert-Butylbenzene	11.418	119	277844	10.308	ug/l	99
78) 1,2,4-Trimethylbenzene	11.463	105	283572	10.687	ug/l	100
79) sec-Butylbenzene	11.640	105	368469	10.516	ug/l	100
80) Nitrobenzene	13.206	77	9462	57.798	ug/l	99
81) p-Isopropyltoluene	11.791	119	300269	10.858	ug/l	100
82) 1,3-Dichlorobenzene	11.743	146	158958	10.478	ug/l	99
83) 1,4-Dichlorobenzene	11.833	146	159606	10.554	ug/l	99
84) n-Butylbenzene	12.206	91	262855	10.582	ug/l	99
85) 1,2-Dichlorobenzene	12.209	146	154125	10.599	ug/l	99
86) 1,2-Dibromo-3-Chloropr...	12.994	75	10044	12.125	ug/l	96
87) 1,2,4-Trichlorobenzene	13.836	180	96214	10.374	ug/l	97
88) Hexachlorobutadiene	14.016	225	52574	10.628	ug/l	99
89) Naphthalene	14.084	128	151439	10.544	ug/l	100
90) 1,2,3-Trichlorobenzene	14.325	180	85272	10.362	ug/l	99

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

