

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040623\
 Data File : VX034958.D
 Acq On : 06 Apr 2023 16:37
 Operator : JC/MD
 Sample : 02213-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT2-2023

Quant Time: Apr 07 03:20:02 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 28 09:11:00 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 04/07/2023
 Supervised By : Mahesh Dadoda 04/07/2023

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

Internal Standards						
1) Bromochloromethane	4.897	128	30937	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	196429	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	210891	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	87954	29.589	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.633%		
60) 4-Bromofluorobenzene	11.079	95	123685	29.351	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.833%		
63) Toluene-d8	8.647	98	219648	30.648	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	102.167%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	15610	5.320	ug/l	96
3) Chloromethane	1.294	50	18549	4.875	ug/l	96
4) Vinyl Chloride	1.374	62	17409	4.638	ug/l #	86
5) Bromomethane	1.617	94	7720	3.127	ug/l	91
6) Chloroethane	1.685	64	10742	4.397	ug/l #	86
7) Trichlorofluoromethane	1.886	101	26158	4.375	ug/l	95
8) Diethyl Ether	2.130	74	9952	4.623	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.331	101	15760	5.195	ug/l	99
10) 1,1-Dichloroethene	2.319	96	13979	4.552	ug/l	97
11) Methyl Iodide	2.453	142	9702	2.481	ug/l	98
12) Methyl Acetate	2.703	43	33484	4.924	ug/l	97
13) Acrolein	2.239	56	14716	18.661	ug/l	98
14) Acrylonitrile	3.062	53	44076	23.538	ug/l	99
15) Acetone	2.392	58	12734	25.048	ug/l	97
16) Carbon Disulfide	2.514	76	30639	3.901	ug/l	99
17) Allyl chloride	2.660	41	26261	4.419	ug/l	94
18) Methylene Chloride	2.788	84	17868	4.940	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	15557	4.630	ug/l	93
20) Diisopropyl ether	3.757	45	56606	4.650	ug/l	95
21) 1,1-Dichloroethane	3.611	63	30829	4.736	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	18139	4.635	ug/l	99
23) tert-Butyl Alcohol	2.989	59	18210m	21.613	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	53469	4.686	ug/l	97
25) Chloroform	5.086	83	31298	4.727	ug/l	97
26) Cyclohexane	5.470	56	26666	4.675	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	22884	5.065	ug/l	98
30) 2-Butanone	4.562	43	61750	24.508	ug/l	99
31) 2,2-Dichloropropane	4.477	77	20725	4.523	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	25141	4.744	ug/l	98
33) Carbon Tetrachloride	5.678	117	20818	4.759	ug/l	97
34) Benzene	6.037	78	65997	5.027	ug/l	99
35) Methacrylonitrile	4.916	41	13593	4.929	ug/l	98
36) 1,2-Dichloroethane	6.086	62	26756	5.198	ug/l #	94
37) Trichloroethene	7.129	130	16062	4.807	ug/l	94
38) Methylcyclohexane	7.379	83	24405	4.944	ug/l	96
39) 1,2-Dichloropropane	7.427	63	16388	4.802	ug/l	97
40) Dibromomethane	7.586	93	11726	5.002	ug/l	97
41) Bromodichloromethane	7.824	83	20202	4.575	ug/l #	95
42) Vinyl Acetate	3.721	43	186329	22.669	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	21195	4.337	ug/l	# 91
44) Isopropyl Acetate	6.336	43	36367	4.396	ug/l	99
45) 1,4-Dioxane	7.708	88	8265m	100.850	ug/l	
46) Methyl methacrylate	7.696	41	19474	4.832	ug/l	94
47) n-amyl Acetate	10.841	43	27390	3.809	ug/l	96
48) t-1,3-Dichloropropene	8.982	75	17141	3.563	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	21812	4.127	ug/l	94
50) 1,1,2-Trichloroethane	9.153	97	16577	5.076	ug/l	95
51) Ethyl methacrylate	9.116	69	23279	4.392	ug/l	97
52) 1,3-Dichloropropane	9.311	76	28461	4.933	ug/l	95
53) Dibromochloromethane	9.518	129	12931	4.002	ug/l	96
54) 1,2-Dibromoethane	9.610	107	15973	4.572	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	62647	22.458	ug/l	100
56) Bromoform	10.799	173	7887	3.540	ug/l	98
58) 4-Methyl-2-Pentanone	8.573	43	122311	25.296	ug/l	99
59) 2-Hexanone	9.433	43	88826	24.399	ug/l	99
61) Tetrachloroethene	9.275	164	15579	5.482	ug/l	97
62) Toluene	8.720	91	70653	5.124	ug/l	98
64) Chlorobenzene	10.079	112	43140	5.080	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	13706	4.515	ug/l	100
66) Ethyl Benzene	10.195	91	76989	5.013	ug/l	100
67) m/p-Xylenes	10.299	106	58643	10.035	ug/l	98
68) o-Xylene	10.640	106	28762	4.977	ug/l	99
69) Styrene	10.658	104	44483	4.669	ug/l	99
70) Isopropylbenzene	10.963	105	73665	4.925	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	23736	4.828	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	21838m	4.880	ug/l	
73) Bromobenzene	11.201	156	17292	4.814	ug/l	94
74) n-propylbenzene	11.305	91	81497	4.681	ug/l	99
75) 2-Chlorotoluene	11.366	91	54425	5.014	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	61452	4.881	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	3637	2.646	ug/l	76
78) 4-Chlorotoluene	11.457	91	61810	4.967	ug/l	97
79) tert-butylbenzene	11.713	119	55625	4.628	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	60928	4.870	ug/l	95
81) sec-Butylbenzene	11.890	105	68557	4.707	ug/l	100
82) p-Isopropyltoluene	12.006	119	56722	4.615	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	33098	4.879	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	33127	4.863	ug/l	98
85) n-Butylbenzene	12.335	91	45929	4.336	ug/l	98
86) Hexachloroethane	12.536	117	6597	3.277	ug/l	94
87) 1,2-Dichlorobenzene	12.335	146	32012	4.823	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	3926	3.654	ug/l	93
89) 1,2,4-Trichlorobenzene	13.591	180	17843	4.481	ug/l	100
90) Hexachlorobutadiene	13.725	225	7627	4.967	ug/l	98
91) Naphthalene	13.774	128	59740	4.246	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	18482	4.643	ug/l	98

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

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