

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040623\
 Data File : VX034957.D
 Acq On : 06 Apr 2023 16:10
 Operator : JC/MD
 Sample : 02213-07
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2023

Quant Time: Apr 07 03:19:13 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	4.904	128	31792	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	182068	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	194885	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	86434	28.295	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	94.333%		
60) 4-Bromofluorobenzene	11.079	95	115809	29.739	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.133%		
63) Toluene-d8	8.647	98	198780	30.014	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.033%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	6598	2.188	ug/l	89
3) Chloromethane	1.295	50	9661	2.471	ug/l	91
4) Vinyl Chloride	1.374	62	6985	1.811	ug/l	92
5) Bromomethane	1.612	94	3888	1.532	ug/l	88
6) Chloroethane	1.691	64	5612	2.235	ug/l	100
7) Trichlorofluoromethane	1.886	101	11265	1.833	ug/l	88
8) Diethyl Ether	2.130	74	4902	2.216	ug/l	89
9) 1,1,2-Trichlorotrifluo...	2.331	101	6646	2.132	ug/l	97
10) 1,1-Dichloroethene	2.325	96	6056	1.919	ug/l	92
11) Methyl Iodide	2.447	142	4779	1.189	ug/l	96
12) Methyl Acetate	2.709	43	16100	2.304	ug/l	96
13) Acrolein	2.233	56	7657	9.449	ug/l	99
14) Acrylonitrile	3.069	53	21799	11.328	ug/l	98
15) Acetone	2.386	58	6910	13.227	ug/l	83
16) Carbon Disulfide	2.514	76	13789	1.708	ug/l	96
17) Allyl chloride	2.660	41	12274	2.010	ug/l	91
18) Methylene Chloride	2.788	84	8735	2.350	ug/l	98
19) trans-1,2-Dichloroethene	3.093	96	7105	2.058	ug/l	99
20) Diisopropyl ether	3.757	45	27804	2.222	ug/l #	83
21) 1,1-Dichloroethane	3.605	63	14443	2.159	ug/l #	91
22) cis-1,2-Dichloroethene	4.495	96	8617	2.143	ug/l	98
23) tert-Butyl Alcohol	3.002	59	8947m	10.334	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	26236	2.237	ug/l	94
25) Chloroform	5.093	83	14908	2.191	ug/l	88
26) Cyclohexane	5.464	56	11228	1.915	ug/l #	93
29) 1,1-Dichloropropene	5.696	75	9981	2.383	ug/l	99
30) 2-Butanone	4.574	43	32575	13.949	ug/l	99
31) 2,2-Dichloropropane	4.471	77	9024	2.125	ug/l #	66
32) 1,1,1-Trichloroethane	5.385	97	10723	2.183	ug/l #	91
33) Carbon Tetrachloride	5.666	117	9250	2.281	ug/l	89
34) Benzene	6.038	78	30232	2.484	ug/l	94
35) Methacrylonitrile	4.922	41	4717	1.845	ug/l	94
36) 1,2-Dichloroethane	6.086	62	14237	2.984	ug/l #	88
37) Trichloroethene	7.129	130	7520	2.428	ug/l	91
38) Methylcyclohexane	7.379	83	10317	2.255	ug/l	94
39) 1,2-Dichloropropane	7.428	63	8429	2.665	ug/l	92
40) Dibromomethane	7.580	93	5863	2.698	ug/l	97
41) Bromodichloromethane	7.824	83	9416	2.301	ug/l #	92
42) Vinyl Acetate	3.721	43	89173	11.704	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	10925	2.412	ug/l #	90
44) Isopropyl Acetate	6.342	43	18265	2.382	ug/l	96
45) 1,4-Dioxane	7.714	88	4421m	58.201	ug/l	
46) Methyl methacrylate	7.696	41	8446	2.261	ug/l	97
47) n-amyl Acetate	10.848	43	12609	1.892	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	8131	1.823	ug/l	93
49) cis-1,3-Dichloropropene	8.366	75	9580	1.955	ug/l	95
50) 1,1,2-Trichloroethane	9.153	97	7993	2.640	ug/l	98
51) Ethyl methacrylate	9.122	69	10393	2.115	ug/l	98
52) 1,3-Dichloropropane	9.311	76	13702	2.562	ug/l	96
53) Dibromochloromethane	9.519	129	6242	2.084	ug/l	97
54) 1,2-Dibromoethane	9.610	107	7890	2.437	ug/l	97
55) 2-Chloroethyl vinyl ether	8.244	63	29055	11.237	ug/l	98
56) Bromoform	10.799	173	3655	1.770	ug/l #	96
58) 4-Methyl-2-Pentanone	8.574	43	59797	13.383	ug/l	99
59) 2-Hexanone	9.433	43	42840	12.734	ug/l	99
61) Tetrachloroethene	9.269	164	6941	2.643	ug/l	92
62) Toluene	8.720	91	31793	2.495	ug/l	98
64) Chlorobenzene	10.080	112	20736	2.642	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	6440	2.296	ug/l	97
66) Ethyl Benzene	10.195	91	35092	2.472	ug/l	98
67) m/p-Xylenes	10.299	106	25665	4.752	ug/l	93
68) o-Xylene	10.646	106	13404	2.510	ug/l	99
69) Styrene	10.659	104	20106	2.284	ug/l	96
70) Isopropylbenzene	10.964	105	32134	2.325	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	12054	2.653	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	10787m	2.608	ug/l	
73) Bromobenzene	11.201	156	8351	2.516	ug/l	95
74) n-propylbenzene	11.305	91	35734	2.221	ug/l	99
75) 2-Chlorotoluene	11.366	91	25448	2.537	ug/l	95
76) 1,3,5-Trimethylbenzene	11.451	105	26863	2.309	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	1613	1.270	ug/l #	35
78) 4-Chlorotoluene	11.457	91	27119	2.358	ug/l	99
79) tert-butylbenzene	11.713	119	25087	2.259	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	25549	2.210	ug/l	99
81) sec-Butylbenzene	11.890	105	28796	2.140	ug/l	99
82) p-Isopropyltoluene	12.012	119	24331	2.142	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	14549	2.321	ug/l	97
84) 1,4-Dichlorobenzene	12.043	146	15263	2.425	ug/l	97
85) n-Butylbenzene	12.335	91	19196	1.961	ug/l	97
86) Hexachloroethane	12.536	117	2847	1.531	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	15567	2.538	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	1978	1.992	ug/l	83
89) 1,2,4-Trichlorobenzene	13.591	180	8675	2.358	ug/l	95
90) Hexachlorobutadiene	13.725	225	3563	2.511	ug/l	95
91) Naphthalene	13.774	128	29130	2.241	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	8518	2.316	ug/l	95

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

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