

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032621\
 Data File : VX021528.D
 Acq On : 26 Mar 2021 12:15
 Operator : JC/MD
 Sample : VSTDIC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

SAM
 3/30/2021 7:13:06 PM

Quant Time: Mar 26 12:36:58 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032621W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 26 12:25:44 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.982	128	13857	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.829	114	80533	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.094	117	75906	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.029	65	38694	30.25	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.83%			
60) 4-Bromofluorobenzene	11.118	95	40451	29.47	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.23%			
63) Toluene-d8	8.694	98	101059	29.36	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.87%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.181	85	145681	148.51	ug/l	99
3) Chloromethane	1.311	50	123139	124.91	ug/l	97
4) Vinyl Chloride	1.393	62	112933	117.33	ug/l	99
5) Bromomethane	1.623	94	43632	80.55	ug/l	100
6) Chloroethane	1.699	64	66027	111.74	ug/l	97
7) Trichlorofluoromethane	1.905	101	164084	110.03	ug/l	94
8) Diethyl Ether	2.170	74	54948	110.59	ug/l	78
9) 1,1,2-Trichlorotrifluo...	2.358	101	92794	114.80	ug/l	99
10) 1,1-Dichloroethene	2.352	96	87743	112.30	ug/l	88
11) Methyl Iodide	2.487	142	84558	88.64	ug/l	88
12) Methyl Acetate	2.752	43	189800m	139.47	ug/l	
13) Acrolein	2.276	56	80886	489.69	ug/l	98
14) Acrylonitrile	3.117	53	279014	568.12	ug/l	98
15) Acetone	2.423	58	74156m	560.84	ug/l	
16) Carbon Disulfide	2.546	76	252453	111.54	ug/l	100
17) Allyl chloride	2.705	41	175503	107.63	ug/l	88
18) Methylene Chloride	2.835	84	102010	108.89	ug/l #	88
19) trans-1,2-Dichloroethene	3.140	96	95812	111.73	ug/l	87
20) Diisopropyl ether	3.829	45	343088	108.28	ug/l	95
21) 1,1-Dichloroethane	3.670	63	184343	108.87	ug/l	97
22) cis-1,2-Dichloroethene	4.564	96	109963	110.44	ug/l	89
23) tert-Butyl Alcohol	3.029	59	118372	549.26	ug/l #	100
24) Methyl tert-Butyl Ether	3.170	73	325796	111.22	ug/l #	87
25) Chloroform	5.176	83	193765	109.31	ug/l	98
26) Cyclohexane	5.547	56	163833	109.04	ug/l #	90
29) 1,1-Dichloropropene	5.770	75	142823	106.11	ug/l	97
30) 2-Butanone	4.635	43	416314	551.26	ug/l	92
31) 2,2-Dichloropropane	4.547	77	160412	107.08	ug/l	96
32) 1,1,1-Trichloroethane	5.464	97	174167	105.86	ug/l	97
33) Carbon Tetrachloride	5.753	117	154568	107.40	ug/l	98
34) Benzene	6.111	78	403745	104.87	ug/l	97
35) Methacrylonitrile	5.005	41	91022	106.95	ug/l	90
36) 1,2-Dichloroethane	6.164	62	170781	103.11	ug/l #	94
37) Trichloroethene	7.188	130	106298	105.55	ug/l	97
38) Methylcyclohexane	7.441	83	160774	106.37	ug/l	93
39) 1,2-Dichloropropane	7.488	63	106328	102.31	ug/l	99
40) Dibromomethane	7.635	93	78098	105.15	ug/l	92
41) Bromodichloromethane	7.876	83	161231	104.65	ug/l	97
42) Vinyl Acetate	3.788	43	1435875	511.56	ug/l #	92

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.794	43	158041	105.22	ug/l	100
44) Isopropyl Acetate	6.412	43	267387	107.00	ug/l #	91
45) 1,4-Dioxane	7.718	88	52080	2236.28	ug/l #	88
46) Methyl methacrylate	7.747	41	147772	109.85	ug/l	84
47) n-amyl Acetate	10.883	43	234855	108.92	ug/l	92
48) t-1,3-Dichloropropene	9.024	75	171649	108.84	ug/l	99
49) cis-1,3-Dichloropropene	8.418	75	180741	107.28	ug/l #	85
50) 1,1,2-Trichloroethane	9.194	97	105850	107.22	ug/l	97
51) Ethyl methacrylate	9.159	69	159567	103.75	ug/l	77
52) 1,3-Dichloropropane	9.353	76	178886	104.04	ug/l	99
53) Dibromochloromethane	9.565	129	124513	109.49	ug/l	99
54) 1,2-Dibromoethane	9.653	107	115198	109.68	ug/l	98
55) 2-Chloroethyl vinyl ether	8.294	63	444680	541.88	ug/l	97
56) Bromoform	10.841	173	89449	111.19	ug/l	99
58) 4-Methyl-2-Pentanone	8.624	43	839464	543.84	ug/l	90
59) 2-Hexanone	9.477	43	634685	546.43	ug/l	88
61) Tetrachloroethene	9.318	164	94543	95.97	ug/l	99
62) Toluene	8.765	91	447840	106.10	ug/l	98
64) Chlorobenzene	10.124	112	275598	106.28	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.206	131	107902	109.53	ug/l	100
66) Ethyl Benzene	10.236	91	512802	106.40	ug/l	99
67) m/p-Xylenes	10.341	106	375074	215.50	ug/l	94
68) o-Xylene	10.683	106	182000	108.16	ug/l	94
69) Styrene	10.694	104	304025	106.88	ug/l	94
70) Isopropylbenzene	11.000	105	500344	108.82	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.253	83	162648	109.46	ug/l	100
72) 1,2,3-Trichloropropane	11.283	75	156670m	105.45	ug/l	
73) Bromobenzene	11.236	156	117218	107.09	ug/l	92
74) n-propylbenzene	11.342	91	592220	108.51	ug/l	98
75) 2-Chlorotoluene	11.406	91	346958	105.57	ug/l	99
76) 1,3,5-Trimethylbenzene	11.489	105	427390	109.18	ug/l	98
77) t-1,4-Dichloro-2-butene	11.059	75	55714	115.41	ug/l	95
78) 4-Chlorotoluene	11.495	91	413809	108.13	ug/l	97
79) tert-butylbenzene	11.753	119	400973	110.33	ug/l	95
80) 1,2,4-Trimethylbenzene	11.789	105	424070	107.56	ug/l	97
81) sec-Butylbenzene	11.930	105	476297	109.78	ug/l	99
82) p-Isopropyltoluene	12.048	119	435234	109.97	ug/l	96
83) 1,3-Dichlorobenzene	12.012	146	212406	109.09	ug/l	98
84) 1,4-Dichlorobenzene	12.083	146	214718	110.14	ug/l	99
85) n-Butylbenzene	12.371	91	397072	109.23	ug/l	97
86) Hexachloroethane	12.577	117	77401	107.87	ug/l	93
87) 1,2-Dichlorobenzene	12.377	146	208366	108.76	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.983	75	40043	110.32	ug/l	86
89) 1,2,4-Trichlorobenzene	13.630	180	139428	115.99	ug/l	97
90) Hexachlorobutadiene	13.765	225	54334	102.54	ug/l	99
91) Naphthalene	13.818	128	462270	118.00	ug/l	100
92) 1,2,3-Trichlorobenzene	14.001	180	135574	114.78	ug/l	99

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

