

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022521\
 Data File : VX020905.D
 Acq On : 25 Feb 2021 10:20
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Manual Integrations
 APPROVED

MMDadoda
 2/26/2021 2:30:30 PM

Quant Time: Feb 25 11:04:49 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022521W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Feb 25 10:23:53 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.982	128	36675	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.829	114	201345	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.094	117	171303	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.029	65	76682	29.99	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	99.97%	
60) 4-Bromofluorobenzene	11.118	95	86695	30.08	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	100.27%	
63) Toluene-d8	8.694	98	238825	31.74	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	105.80%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.187	85	97951	50.46	ug/l	95
3) Chloromethane	1.311	50	106980	51.42	ug/l	98
4) Vinyl Chloride	1.393	62	125420	52.08	ug/l	100
5) Bromomethane	1.623	94	44771	47.35	ug/l	100
6) Chloroethane	1.705	64	80128	52.71	ug/l	96
7) Trichlorofluoromethane	1.911	101	165032	49.46	ug/l	96
8) Diethyl Ether	2.170	74	72766	52.02	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.364	101	100947	51.96	ug/l	97
10) 1,1-Dichloroethene	2.352	96	103755	52.25	ug/l	94
11) Methyl Iodide	2.487	142	136930	52.59	ug/l	94
12) Methyl Acetate	2.746	43	119469	47.68	ug/l	96
13) Acrolein	2.276	56	88313	248.48	ug/l	98
14) Acrylonitrile	3.117	53	295778	241.39	ug/l	100
15) Acetone	2.423	58	87127	234.21	ug/l	97
16) Carbon Disulfide	2.546	76	293771	53.54	ug/l	99
17) Allyl chloride	2.705	41	166137	51.17	ug/l	99
18) Methylene Chloride	2.835	84	116291	48.17	ug/l	96
19) trans-1,2-Dichloroethene	3.140	96	116397	50.84	ug/l	99
20) Diisopropyl ether	3.829	45	335063	50.10	ug/l	92
21) 1,1-Dichloroethane	3.664	63	199359	49.91	ug/l	100
22) cis-1,2-Dichloroethene	4.564	96	132351	50.22	ug/l	97
23) tert-Butyl Alcohol	3.017	59	135225	231.89	ug/l #	100
24) Methyl tert-Butyl Ether	3.170	73	372255	51.98	ug/l	99
25) Chloroform	5.176	83	204849	49.71	ug/l	100
26) Cyclohexane	5.547	56	178097	51.15	ug/l #	99
29) 1,1-Dichloropropene	5.764	75	155878	50.87	ug/l	99
30) 2-Butanone	4.635	43	394660	244.44	ug/l	99
31) 2,2-Dichloropropane	4.547	77	178861	51.50	ug/l	99
32) 1,1,1-Trichloroethane	5.464	97	173836	49.13	ug/l	99
33) Carbon Tetrachloride	5.753	117	150743	49.72	ug/l	99
34) Benzene	6.111	78	471100	50.40	ug/l	99
35) Methacrylonitrile	5.005	41	85041	51.05	ug/l	99
36) 1,2-Dichloroethane	6.159	62	157990	49.47	ug/l	98
37) Trichloroethene	7.182	130	125840	50.91	ug/l	97
38) Methylcyclohexane	7.441	83	197035	53.20	ug/l	98
39) 1,2-Dichloropropane	7.488	63	116424	49.59	ug/l	98
40) Dibromomethane	7.635	93	79381	49.39	ug/l	96
41) Bromodichloromethane	7.876	83	168610	52.36	ug/l	99
42) Vinyl Acetate	3.782	43	1463192	258.16	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.794	43	148994	48.87	ug/l	99
44) Isopropyl Acetate	6.412	43	253195	50.84	ug/l	100
45) 1,4-Dioxane	7.712	88	59378	981.70	ug/l	99
46) Methyl methacrylate	7.741	41	127389	51.55	ug/l	99
47) n-amyl Acetate	10.877	43	207715	48.40	ug/l	97
48) t-1,3-Dichloropropene	9.024	75	187723	52.13	ug/l	99
49) cis-1,3-Dichloropropene	8.412	75	204219	52.04	ug/l	98
50) 1,1,2-Trichloroethane	9.194	97	117776	49.06	ug/l	98
51) Ethyl methacrylate	9.159	69	187718	50.65	ug/l	99
52) 1,3-Dichloropropane	9.353	76	199679	49.68	ug/l	99
53) Dibromochloromethane	9.565	129	126375	49.72	ug/l	100
54) 1,2-Dibromoethane	9.653	107	124491	49.37	ug/l	99
55) 2-Chloroethyl vinyl ether	8.288	63	476425	251.81	ug/l	99
56) Bromoform	10.842	173	87321	46.92	ug/l	98
58) 4-Methyl-2-Pentanone	8.618	43	734494	257.86	ug/l	99
59) 2-Hexanone	9.471	43	550411	247.30	ug/l	99
61) Tetrachloroethene	9.318	164	106894	53.58	ug/l	97
62) Toluene	8.765	91	498454	53.50	ug/l	100
64) Chlorobenzene	10.118	112	312720	53.54	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.200	131	112670	52.00	ug/l	97
66) Ethyl Benzene	10.236	91	559619	53.51	ug/l	99
67) m/p-Xylenes	10.341	106	413773	105.37	ug/l	97
68) o-Xylene	10.683	106	198630	51.79	ug/l	99
69) Styrene	10.694	104	342762	52.56	ug/l	99
70) Isopropylbenzene	11.000	105	530368	51.95	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.253	83	168239	48.43	ug/l	99
72) 1,2,3-Trichloropropane	11.277	75	141457m	44.31	ug/l	
73) Bromobenzene	11.236	156	124071	48.30	ug/l	96
74) n-propylbenzene	11.342	91	608489	51.47	ug/l	100
75) 2-Chlorotoluene	11.406	91	357889	49.94	ug/l	99
76) 1,3,5-Trimethylbenzene	11.489	105	444657	51.59	ug/l	97
77) t-1,4-Dichloro-2-butene	11.059	75	62591	52.30	ug/l	89
78) 4-Chlorotoluene	11.495	91	408466	49.46	ug/l	98
79) tert-butylbenzene	11.753	119	421089	49.41	ug/l	99
80) 1,2,4-Trimethylbenzene	11.789	105	447780	51.41	ug/l	99
81) sec-Butylbenzene	11.930	105	510162	52.05	ug/l	99
82) p-Isopropyltoluene	12.048	119	455171	50.66	ug/l	99
83) 1,3-Dichlorobenzene	12.006	146	227394	48.77	ug/l	98
84) 1,4-Dichlorobenzene	12.083	146	221915	47.63	ug/l	99
85) n-Butylbenzene	12.371	91	415429	52.37	ug/l	100
86) Hexachloroethane	12.577	117	87885	54.87	ug/l	87
87) 1,2-Dichlorobenzene	12.377	146	217651	48.06	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.983	75	37711	49.30	ug/l	95
89) 1,2,4-Trichlorobenzene	13.624	180	141381	47.14	ug/l	98
90) Hexachlorobutadiene	13.765	225	56029	43.15	ug/l	99
91) Naphthalene	13.818	128	512483	51.40	ug/l	100
92) 1,2,3-Trichlorobenzene	14.001	180	137703	46.77	ug/l	96

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

