

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082221\
 Data File : VX023891.D
 Acq On : 20 Aug 2021 20:42
 Operator : JC/MD
 Sample : VX0822WBS02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0822WBS02

Manual Integrations
 APPROVED

MMDadoda
 8/23/2021 11:32:28 AM

Quant Time: Aug 21 01:10:49 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X080321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Aug 03 12:05:42 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.910	128	31565	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	170670	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	159732	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	75844	31.070	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 103.567%	
60) 4-Bromofluorobenzene	11.085	95	79641	30.440	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 101.467%	
63) Toluene-d8	8.653	98	216817	30.160	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 100.533%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	38867	20.847	ug/l	98
3) Chloromethane	1.295	50	41375	19.670	ug/l	93
4) Vinyl Chloride	1.374	62	41416	19.686	ug/l	99
5) Bromomethane	1.605	94	28926	23.431	ug/l	98
6) Chloroethane	1.685	64	26741	20.301	ug/l	96
7) Trichlorofluoromethane	1.886	101	69014	20.312	ug/l	94
8) Diethyl Ether	2.142	74	24298	20.056	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.331	101	39351	20.732	ug/l	99
10) 1,1-Dichloroethene	2.319	96	37008	20.237	ug/l	93
11) Methyl Iodide	2.453	142	51263	19.951	ug/l	98
12) Methyl Acetate	2.715	43	58995	21.630	ug/l	98
13) Acrolein	2.240	56	24570	81.824	ug/l	98
14) Acrylonitrile	3.075	53	124530	103.210	ug/l	97
15) Acetone	2.392	58	34488	94.317	ug/l	98
16) Carbon Disulfide	2.514	76	82422	18.270	ug/l	99
17) Allyl chloride	2.672	41	66720	19.744	ug/l	94
18) Methylene Chloride	2.794	84	46252	21.505	ug/l	99
19) trans-1,2-Dichloroethene	3.099	96	39538	20.201	ug/l	96
20) Diisopropyl ether	3.770	45	137790	20.420	ug/l	93
21) 1,1-Dichloroethane	3.617	63	76119	20.710	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	47118	20.686	ug/l	97
23) tert-Butyl Alcohol	2.977	59	55949	102.189	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	132976	20.729	ug/l	98
25) Chloroform	5.105	83	80073	21.238	ug/l	99
26) Cyclohexane	5.477	56	66017	19.783	ug/l #	98
29) 1,1-Dichloropropene	5.702	75	56967	21.431	ug/l	98
30) 2-Butanone	4.568	43	184542	103.572	ug/l	99
31) 2,2-Dichloropropane	4.483	77	56235	18.714	ug/l	95
32) 1,1,1-Trichloroethane	5.397	97	69965	21.757	ug/l	99
33) Carbon Tetrachloride	5.684	117	58820	21.030	ug/l	95
34) Benzene	6.050	78	168112	20.977	ug/l	97
35) Methacrylonitrile	4.934	41	38759	21.635	ug/l	94
36) 1,2-Dichloroethane	6.099	62	69601	22.728	ug/l	98
37) Trichloroethene	7.135	130	45215	20.766	ug/l	99
38) Methylcyclohexane	7.391	83	67466	19.953	ug/l	97
39) 1,2-Dichloropropane	7.440	63	43458	20.723	ug/l	100
40) Dibromomethane	7.586	93	31700	21.309	ug/l	96
41) Bromodichloromethane	7.830	83	56519	20.934	ug/l	98
42) Vinyl Acetate	3.733	43	609129	104.954	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.733	43	71152	21.527	ug/l	100
44) Isopropyl Acetate	6.355	43	111111	21.116	ug/l	98
45) 1,4-Dioxane	7.665	88	22704	415.813	ug/l	92
46) Methyl methacrylate	7.702	41	53880	21.232	ug/l	95
47) n-amyl Acetate	10.848	43	94850	21.187	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	62197	19.731	ug/l	97
49) cis-1,3-Dichloropropene	8.373	75	65866	19.703	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	45961	21.392	ug/l	97
51) Ethyl methacrylate	9.122	69	69381	20.481	ug/l	97
52) 1,3-Dichloropropane	9.311	76	76102	21.577	ug/l	100
53) Dibromochloromethane	9.525	129	43501	20.146	ug/l	100
54) 1,2-Dibromoethane	9.616	107	47723	20.990	ug/l	100
55) 2-Chloroethyl vinyl ether	8.245	63	164415	97.182	ug/l	100
56) Bromoform	10.805	173	30677	19.799	ug/l	99
58) 4-Methyl-2-Pentanone	8.580	43	371690	107.937	ug/l	99
59) 2-Hexanone	9.433	43	294062	109.968	ug/l	98
61) Tetrachloroethene	9.281	164	45891	21.383	ug/l	94
62) Toluene	8.720	91	190325	21.121	ug/l	99
64) Chlorobenzene	10.086	112	117990	20.695	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	43636	20.672	ug/l	98
66) Ethyl Benzene	10.195	91	211258	21.185	ug/l	99
67) m/p-Xylenes	10.305	106	161092	41.770	ug/l	99
68) o-Xylene	10.647	106	79306	20.858	ug/l	99
69) Styrene	10.659	104	131310	20.956	ug/l	99
70) Isopropylbenzene	10.964	105	209251	20.932	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.214	83	72983	22.821	ug/l	100
72) 1,2,3-Trichloropropane	11.244	75	66431m	22.100	ug/l	
73) Bromobenzene	11.201	156	53011	21.781	ug/l	97
74) n-propylbenzene	11.305	91	239380	20.679	ug/l	99
75) 2-Chlorotoluene	11.366	91	145995	21.128	ug/l	100
76) 1,3,5-Trimethylbenzene	11.457	105	176530	21.293	ug/l	98
77) t-1,4-Dichloro-2-butene	11.025	75	19741	18.397	ug/l	99
78) 4-Chlorotoluene	11.457	91	163554	20.947	ug/l	99
79) tert-butylbenzene	11.720	119	170662	21.191	ug/l	99
80) 1,2,4-Trimethylbenzene	11.756	105	177025	21.547	ug/l	99
81) sec-Butylbenzene	11.896	105	215539	20.895	ug/l	100
82) p-Isopropyltoluene	12.012	119	178320	21.039	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	94759	21.495	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	92776	21.292	ug/l	99
85) n-Butylbenzene	12.335	91	156448	20.865	ug/l	98
86) Hexachloroethane	12.543	117	27467	19.940	ug/l	97
87) 1,2-Dichlorobenzene	12.341	146	91216	21.443	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	14444	20.564	ug/l	95
89) 1,2,4-Trichlorobenzene	13.591	180	52351	19.894	ug/l	98
90) Hexachlorobutadiene	13.731	225	24012	20.343	ug/l	99
91) Naphthalene	13.780	128	181717	20.106	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	53963	20.411	ug/l	99

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

