

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX033021\
 Data File : VX021644.D
 Acq On : 30 Mar 2021 20:46
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 3/31/2021 6:59:47 PM

Quant Time: Mar 31 04:41:24 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032621W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Mar 27 04:47:38 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.982	128	14442	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.829	114	76741	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.094	117	69879	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.029	65	38942	28.87	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	96.23%		
60) 4-Bromofluorobenzene	11.118	95	36684	29.85	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.50%		
63) Toluene-d8	8.694	98	97854	31.17	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	103.90%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.187	85	24402	18.16	ug/l	94
3) Chloromethane	1.311	50	22500	18.34	ug/l	99
4) Vinyl Chloride	1.393	62	19641	18.01	ug/l	99
5) Bromomethane	1.623	94	9704	22.13	ug/l	97
6) Chloroethane	1.711	64	11288	17.34	ug/l	99
7) Trichlorofluoromethane	1.917	101	29348	17.92	ug/l	98
8) Diethyl Ether	2.170	74	9620	17.86	ug/l	77
9) 1,1,2-Trichlorotrifluo...	2.364	101	15745	17.34	ug/l	97
10) 1,1-Dichloroethene	2.358	96	14997	17.44	ug/l	92
11) Methyl Iodide	2.487	142	13783	19.23	ug/l	97
12) Methyl Acetate	2.746	43	33682	19.15	ug/l #	83
13) Acrolein	2.276	56	15016	90.58	ug/l	99
14) Acrylonitrile	3.117	53	46788	85.36	ug/l	98
15) Acetone	2.423	58	12918	88.96	ug/l	74
16) Carbon Disulfide	2.552	76	41151	17.11	ug/l	97
17) Allyl chloride	2.705	41	28702	17.20	ug/l	89
18) Methylene Chloride	2.834	84	17210	16.92	ug/l #	83
19) trans-1,2-Dichloroethene	3.140	96	16305	17.55	ug/l	86
20) Diisopropyl ether	3.823	45	57430	17.23	ug/l #	94
21) 1,1-Dichloroethane	3.670	63	31251	17.24	ug/l	99
22) cis-1,2-Dichloroethene	4.564	96	18660	17.36	ug/l	92
23) tert-Butyl Alcohol	3.011	59	18561m	79.79	ug/l	
24) Methyl tert-Butyl Ether	3.170	73	53655	17.04	ug/l #	87
25) Chloroform	5.176	83	34035	17.67	ug/l	94
26) Cyclohexane	5.547	56	26800	17.12	ug/l #	89
29) 1,1-Dichloropropene	5.770	75	23378	18.05	ug/l	96
30) 2-Butanone	4.635	43	67579	89.31	ug/l	92
31) 2,2-Dichloropropane	4.546	77	22871	15.84	ug/l	99
32) 1,1,1-Trichloroethane	5.464	97	29959	18.72	ug/l	95
33) Carbon Tetrachloride	5.752	117	26519	18.70	ug/l	97
34) Benzene	6.111	78	68356	18.50	ug/l #	97
35) Methacrylonitrile	4.999	41	14957	17.97	ug/l	91
36) 1,2-Dichloroethane	6.164	62	29995	18.97	ug/l #	93
37) Trichloroethene	7.188	130	18189	18.97	ug/l	98
38) Methylcyclohexane	7.435	83	24985	17.42	ug/l	91
39) 1,2-Dichloropropane	7.488	63	18196	18.46	ug/l	100
40) Dibromomethane	7.635	93	13372	18.57	ug/l	92
41) Bromodichloromethane	7.876	83	27273	18.42	ug/l	99
42) Vinyl Acetate	3.788	43	227652	87.60	ug/l #	92

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43) Ethyl Acetate	4.794	43	26341	18.28	ug/l	100
44) Isopropyl Acetate	6.411	43	43103	17.87	ug/l #	91
45) 1,4-Dioxane	7.712	88	8370	348.77	ug/l #	86
46) Methyl methacrylate	7.747	41	23326	17.63	ug/l	86
47) n-amyl Acetate	10.883	43	35807	17.17	ug/l	96
48) t-1,3-Dichloropropene	9.023	75	25555	17.12	ug/l	98
49) cis-1,3-Dichloropropene	8.412	75	27966	17.49	ug/l #	86
50) 1,1,2-Trichloroethane	9.194	97	17812	18.43	ug/l	97
51) Ethyl methacrylate	9.159	69	24669	17.46	ug/l	79
52) 1,3-Dichloropropane	9.353	76	30451	18.42	ug/l	98
53) Dibromochloromethane	9.565	129	19940	18.09	ug/l	99
54) 1,2-Dibromoethane	9.653	107	18637	17.95	ug/l	99
55) 2-Chloroethyl vinyl ether	8.288	63	69368	88.26	ug/l	97
56) Bromoform	10.841	173	13737	17.64	ug/l	99
58) 4-Methyl-2-Pentanone	8.618	43	136704	92.68	ug/l #	89
59) 2-Hexanone	9.471	43	102490	92.51	ug/l	87
61) Tetrachloroethene	9.318	164	16955	19.99	ug/l	97
62) Toluene	8.765	91	73514	18.68	ug/l	97
64) Chlorobenzene	10.118	112	44587	18.58	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.200	131	17794	18.75	ug/l	99
66) Ethyl Benzene	10.235	91	82221	18.68	ug/l	98
67) m/p-Xylenes	10.341	106	60356	37.29	ug/l	94
68) o-Xylene	10.683	106	27974	17.89	ug/l	88
69) Styrene	10.694	104	46465	17.78	ug/l	92
70) Isopropylbenzene	11.000	105	78439	18.40	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.247	83	26439	18.11	ug/l	98
72) 1,2,3-Trichloropropane	11.277	75	25917m	18.57	ug/l	
73) Bromobenzene	11.236	156	18724	18.21	ug/l	92
74) n-propylbenzene	11.341	91	91297	18.25	ug/l	98
75) 2-Chlorotoluene	11.406	91	55908	18.36	ug/l	98
76) 1,3,5-Trimethylbenzene	11.489	105	67029	18.45	ug/l	97
77) t-1,4-Dichloro-2-butene	11.059	75	7089	15.90	ug/l	88
78) 4-Chlorotoluene	11.494	91	64670	18.21	ug/l	98
79) tert-butylbenzene	11.753	119	62635	18.12	ug/l	95
80) 1,2,4-Trimethylbenzene	11.789	105	66788	18.38	ug/l	96
81) sec-Butylbenzene	11.930	105	72120	17.97	ug/l	98
82) p-Isopropyltoluene	12.047	119	64776	17.68	ug/l	96
83) 1,3-Dichlorobenzene	12.006	146	33702	18.29	ug/l	99
84) 1,4-Dichlorobenzene	12.077	146	33198	18.00	ug/l	98
85) n-Butylbenzene	12.371	91	56256	17.23	ug/l	95
86) Hexachloroethane	12.577	117	11414	17.69	ug/l	87
87) 1,2-Dichlorobenzene	12.377	146	32564	17.94	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.983	75	5943	17.40	ug/l	87
89) 1,2,4-Trichlorobenzene	13.624	180	19497	17.08	ug/l	97
90) Hexachlorobutadiene	13.759	225	9049	18.75	ug/l	97
91) Naphthalene	13.818	128	65216	17.16	ug/l	99
92) 1,2,3-Trichlorobenzene	14.001	180	21292	18.66	ug/l	95

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

