

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051321\
 Data File : VX021934.D
 Acq On : 12 May 2021 18:11
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 5/13/2021 4:07:12 PM

Quant Time: May 13 05:59:23 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051321W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 13 05:56:15 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.909	128	18963	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	109901	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	96149	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	44635	30.56	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	101.87%	
60) 4-Bromofluorobenzene	11.085	95	48612	30.47	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	101.57%	
63) Toluene-d8	8.652	98	131717	29.98	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.93%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	21089	18.84	ug/l	100
3) Chloromethane	1.294	50	23955	17.81	ug/l	100
4) Vinyl Chloride	1.373	62	25635	18.36	ug/l	100
5) Bromomethane	1.611	94	15752	20.04	ug/l	100
6) Chloroethane	1.690	64	16504	18.36	ug/l	100
7) Trichlorofluoromethane	1.892	101	35777	18.34	ug/l	100
8) Diethyl Ether	2.135	74	15259	18.23	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.330	101	20326	18.16	ug/l	100
10) 1,1-Dichloroethene	2.324	96	20360	18.06	ug/l	100
11) Methyl Iodide	2.458	142	20778	18.54	ug/l	100
12) Methyl Acetate	2.708	43	29156	18.71	ug/l	100
13) Acrolein	2.239	56	22188	91.80	ug/l	100
14) Acrylonitrile	3.068	53	59789	94.02	ug/l	100
15) Acetone	2.385	58	18008	94.86	ug/l	100
16) Carbon Disulfide	2.513	76	56145	18.21	ug/l	100
17) Allyl chloride	2.672	41	35839	18.04	ug/l	100
18) Methylene Chloride	2.794	84	23412	17.47	ug/l	100
19) trans-1,2-Dichloroethene	3.099	96	22391	18.28	ug/l	100
20) Diisopropyl ether	3.769	45	66983	17.89	ug/l	100
21) 1,1-Dichloroethane	3.617	63	40967	18.27	ug/l	100
22) cis-1,2-Dichloroethene	4.501	96	25885	17.98	ug/l	100
23) tert-Butyl Alcohol	2.971	59	29214	94.50	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	67679	18.44	ug/l	100
25) Chloroform	5.104	83	40405	17.77	ug/l	100
26) Cyclohexane	5.476	56	33362	18.03	ug/l	100
29) 1,1-Dichloropropene	5.702	75	31550	18.34	ug/l	100
30) 2-Butanone	4.562	43	90986	93.45	ug/l	100
31) 2,2-Dichloropropane	4.489	77	36872	18.24	ug/l	100
32) 1,1,1-Trichloroethane	5.391	97	36287	17.88	ug/l	100
33) Carbon Tetrachloride	5.690	117	31833	18.48	ug/l	100
34) Benzene	6.043	78	93987	17.91	ug/l	100
35) Methacrylonitrile	4.928	41	19327	18.54	ug/l	100
36) 1,2-Dichloroethane	6.092	62	31874	17.79	ug/l	100
37) Trichloroethene	7.134	130	23978	18.18	ug/l	100
38) Methylcyclohexane	7.384	83	35345	18.10	ug/l	100
39) 1,2-Dichloropropane	7.439	63	23702	18.09	ug/l	100
40) Dibromomethane	7.586	93	16615	18.22	ug/l	100
41) Bromodichloromethane	7.829	83	32649	17.94	ug/l	100
42) Vinyl Acetate	3.727	43	330824	90.98	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.720	43	36735	21.52	ug/l	100
44) Isopropyl Acetate	6.348	43	59477	18.23	ug/l	100
45) 1,4-Dioxane	7.677	88	11121	381.71	ug/l #	100
46) Methyl methacrylate	7.695	41	27284	18.03	ug/l	100
47) n-amyl Acetate	10.847	43	49255	18.15	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	36868	18.04	ug/l	100
49) cis-1,3-Dichloropropene	8.372	75	40553	18.49	ug/l	100
50) 1,1,2-Trichloroethane	9.158	97	23547	18.14	ug/l	100
51) Ethyl methacrylate	9.122	69	38377	18.34	ug/l	100
52) 1,3-Dichloropropane	9.311	76	41386	18.29	ug/l	100
53) Dibromochloromethane	9.524	129	23327	17.89	ug/l	100
54) 1,2-Dibromoethane	9.610	107	24405	18.31	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	100824	91.27	ug/l	100
56) Bromoform	10.805	173	14856	17.96	ug/l	100
58) 4-Methyl-2-Pentanone	8.579	43	178836	92.24	ug/l	100
59) 2-Hexanone	9.433	43	132823	92.50	ug/l	100
61) Tetrachloroethene	9.280	164	19933	18.28	ug/l	100
62) Toluene	8.720	91	99501	18.07	ug/l	100
64) Chlorobenzene	10.085	112	59508	18.08	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.164	131	21906	18.23	ug/l	100
66) Ethyl Benzene	10.195	91	109671	18.11	ug/l	100
67) m/p-Xylenes	10.305	106	81793	40.83	ug/l	100
68) o-Xylene	10.646	106	41496	18.56	ug/l	100
69) Styrene	10.658	104	66942	17.89	ug/l	100
70) Isopropylbenzene	10.963	105	107559	18.32	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.219	83	36020	18.61	ug/l	100
72) 1,2,3-Trichloropropane	11.243	75	30840m	13.58	ug/l	
73) Bromobenzene	11.201	156	23144	18.61	ug/l	100
74) n-propylbenzene	11.311	91	123331	18.02	ug/l	100
75) 2-Chlorotoluene	11.365	91	73867	18.22	ug/l	100
76) 1,3,5-Trimethylbenzene	11.457	105	89526	18.26	ug/l	100
77) t-1,4-Dichloro-2-butene	11.024	75	12897	18.54	ug/l	100
78) 4-Chlorotoluene	11.457	91	84235	18.05	ug/l	100
79) tert-butylbenzene	11.719	119	85221	18.18	ug/l	100
80) 1,2,4-Trimethylbenzene	11.756	105	88734	18.11	ug/l	100
81) sec-Butylbenzene	11.896	105	107338	18.21	ug/l	100
82) p-Isopropyltoluene	12.012	119	90469	18.31	ug/l	100
83) 1,3-Dichlorobenzene	11.975	146	43152	18.30	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	44141	18.66	ug/l	100
85) n-Butylbenzene	12.335	91	80156	17.70	ug/l	100
86) Hexachloroethane	12.542	117	14470	17.62	ug/l	100
87) 1,2-Dichlorobenzene	12.341	146	42197	18.47	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.944	75	7786	18.06	ug/l	100
89) 1,2,4-Trichlorobenzene	13.591	180	24524	17.53	ug/l	100
90) Hexachlorobutadiene	13.725	225	9857	18.21	ug/l	100
91) Naphthalene	13.780	128	100371	18.29	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	25450	18.32	ug/l	100

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

