

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031221\
 Data File : VX021176.D
 Acq On : 12 Mar 2021 11:49
 Operator : JC/MD
 Sample : VSTDIC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC100

Manual Integrations
 APPROVED

MMDadoda
 3/15/2021 3:18:45 PM

Quant Time: Mar 12 12:15:02 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X031221W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 12 11:46:12 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.982	128	14915	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.829	114	79953	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.094	117	76659	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.029	65	38872	35.03	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	116.77%#		
60) 4-Bromofluorobenzene	11.124	95	40992	31.58	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	105.27%		
63) Toluene-d8	8.694	98	103596	29.63	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.77%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.187	85	100278	119.55	ug/l	96
3) Chloromethane	1.311	50	103051	115.11	ug/l	100
4) Vinyl Chloride	1.393	62	102268	100.39	ug/l	99
5) Bromomethane	1.623	94	56396	129.15	ug/l	99
6) Chloroethane	1.705	64	62519	97.27	ug/l	96
7) Trichlorofluoromethane	1.911	101	159250	116.19	ug/l	100
8) Diethyl Ether	2.170	74	54666	93.61	ug/l	79
9) 1,1,2-Trichlorotrifluo...	2.364	101	87417	106.43	ug/l	95
10) 1,1-Dichloroethene	2.352	96	85288	101.87	ug/l	85
11) Methyl Iodide	2.493	142	120907	112.69	ug/l	85
12) Methyl Acetate	2.746	43	145218	140.44	ug/l #	87
13) Acrolein	2.270	56	91043	642.01	ug/l	99
14) Acrylonitrile	3.117	53	274101	569.10	ug/l	98
15) Acetone	2.417	58	68928	499.43	ug/l #	61
16) Carbon Disulfide	2.552	76	248577	104.28	ug/l	100
17) Allyl chloride	2.705	41	180011	127.69	ug/l	87
18) Methylene Chloride	2.834	84	101400	105.11	ug/l #	85
19) trans-1,2-Dichloroethene	3.140	96	95187	102.04	ug/l	85
20) Diisopropyl ether	3.823	45	356913	125.39	ug/l #	91
21) 1,1-Dichloroethane	3.670	63	186408	113.19	ug/l	96
22) cis-1,2-Dichloroethene	4.564	96	109911	102.62	ug/l	89
23) tert-Butyl Alcohol	3.023	59	112774	517.66	ug/l #	100
24) Methyl tert-Butyl Ether	3.164	73	329343	109.65	ug/l #	85
25) Chloroform	5.176	83	194381	114.65	ug/l	96
26) Cyclohexane	5.552	56	168270	113.59	ug/l #	89
29) 1,1-Dichloropropene	5.770	75	144649	117.50	ug/l	96
30) 2-Butanone	4.635	43	400292	637.43	ug/l	92
31) 2,2-Dichloropropane	4.552	77	161231	114.02	ug/l	96
32) 1,1,1-Trichloroethane	5.458	97	174277	123.71	ug/l	96
33) Carbon Tetrachloride	5.752	117	156300	127.50	ug/l	95
34) Benzene	6.111	78	410072	111.49	ug/l #	97
35) Methacrylonitrile	5.005	41	93223	135.99	ug/l	90
36) 1,2-Dichloroethane	6.158	62	173541	132.09	ug/l #	93
37) Trichloroethene	7.188	130	107605	109.31	ug/l	91
38) Methylcyclohexane	7.441	83	164325	108.01	ug/l	92
39) 1,2-Dichloropropane	7.488	63	111623	119.95	ug/l	97
40) Dibromomethane	7.635	93	78067	121.62	ug/l	89
41) Bromodichloromethane	7.876	83	164541	122.65	ug/l	99
42) Vinyl Acetate	3.787	43	1531709	652.08	ug/l #	92

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.793	43	156998	129.57	ug/l	98
44) Isopropyl Acetate	6.411	43	272960	134.04	ug/l #	91
45) 1,4-Dioxane	7.717	88	48326	2127.82	ug/l #	87
46) Methyl methacrylate	7.747	41	145392	141.22	ug/l	83
47) n-amyl Acetate	10.883	43	239900	140.06	ug/l	91
48) t-1,3-Dichloropropene	9.023	75	179256	122.00	ug/l	98
49) cis-1,3-Dichloropropene	8.418	75	187077	117.42	ug/l #	85
50) 1,1,2-Trichloroethane	9.194	97	107361	116.56	ug/l	96
51) Ethyl methacrylate	9.159	69	174548	119.68	ug/l #	74
52) 1,3-Dichloropropane	9.353	76	185065	117.77	ug/l	98
53) Dibromochloromethane	9.565	129	126528	126.80	ug/l	99
54) 1,2-Dibromoethane	9.653	107	114441	118.33	ug/l	99
55) 2-Chloroethyl vinyl ether	8.294	63	452299	640.45	ug/l	97
56) Bromoform	10.841	173	87048	124.78	ug/l	98
58) 4-Methyl-2-Pentanone	8.623	43	822315	636.12	ug/l #	89
59) 2-Hexanone	9.471	43	611950	627.26	ug/l	88
61) Tetrachloroethene	9.318	164	103550	112.45	ug/l	92
62) Toluene	8.765	91	452383	106.14	ug/l	97
64) Chlorobenzene	10.124	112	281334	107.47	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.206	131	108000	111.33	ug/l	99
66) Ethyl Benzene	10.235	91	530394	111.49	ug/l	99
67) m/p-Xylenes	10.341	106	383514	217.84	ug/l	94
68) o-Xylene	10.682	106	183864	109.49	ug/l	92
69) Styrene	10.694	104	313251	107.66	ug/l	93
70) Isopropylbenzene	11.000	105	492594	108.51	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.253	83	152999	107.47	ug/l	100
72) 1,2,3-Trichloropropane	11.283	75	153744m	118.04	ug/l	
73) Bromobenzene	11.241	156	118459	110.95	ug/l	92
74) n-propylbenzene	11.341	91	602678	115.64	ug/l	97
75) 2-Chlorotoluene	11.406	91	349413	111.93	ug/l	98
76) 1,3,5-Trimethylbenzene	11.488	105	426474	113.59	ug/l	98
77) t-1,4-Dichloro-2-butene	11.059	75	55507	105.52	ug/l	91
78) 4-Chlorotoluene	11.494	91	416135	115.82	ug/l	97
79) tert-butylbenzene	11.753	119	390689	108.87	ug/l	92
80) 1,2,4-Trimethylbenzene	11.789	105	428375	112.82	ug/l	98
81) sec-Butylbenzene	11.930	105	480717	111.23	ug/l	99
82) p-Isopropyltoluene	12.047	119	433362	110.77	ug/l	96
83) 1,3-Dichlorobenzene	12.012	146	210721	108.46	ug/l	98
84) 1,4-Dichlorobenzene	12.083	146	209257	109.42	ug/l	97
85) n-Butylbenzene	12.371	91	410341	115.87	ug/l	96
86) Hexachloroethane	12.583	117	81537	110.91	ug/l	89
87) 1,2-Dichlorobenzene	12.377	146	208310	113.31	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.983	75	40388	122.22	ug/l	81
89) 1,2,4-Trichlorobenzene	13.630	180	141658	117.15	ug/l	97
90) Hexachlorobutadiene	13.765	225	56009	114.08	ug/l	99
91) Naphthalene	13.818	128	460154	110.95	ug/l	99
92) 1,2,3-Trichlorobenzene	14.001	180	135288	113.82	ug/l	98

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

