

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX043018\
 Data File : VX001256.D
 Acq On : 30 Apr 2018 11:02
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

MMDadoda
 5/2/2018 11:08:02 AM

Quant Time: Apr 30 13:11:31 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X043018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Apr 30 12:56:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	37658	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	210752	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	196919	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	82601	28.34	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	94.47%
60) 4-Bromofluorobenzene	11.14	95	96797	30.05	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.17%
63) Toluene-d8	8.72	98	252888	29.98	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.93%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	54078	23.14	ug/l	97
3) Chloromethane	1.33	50	49708	21.22	ug/l	99
4) Vinyl Chloride	1.41	62	51887	18.62	ug/l	97
5) Bromomethane	1.65	94	37442	14.58	ug/l	96
6) Chloroethane	1.73	64	30807	17.27	ug/l	99
7) Trichlorofluoromethane	1.94	101	84122	17.42	ug/l	100
8) Diethyl Ether	2.20	74	28485	16.89	ug/l	87
9) 1,1,2-Trichlorotrifluoroet	2.39	101	46481	17.64	ug/l	94
10) 1,1-Dichloroethene	2.39	96	41694	16.57	ug/l	91
11) Methyl Iodide	2.52	142	46116	18.86	ug/l	93
12) Methyl Acetate	2.78	43	55862	12.42	ug/l	95
13) Acrolein	2.30	56	33281	61.51	ug/l	99
14) Acrylonitrile	3.15	53	110729	56.83	ug/l	98
15) Acetone	2.45	58	34942	55.01	ug/l	93
16) Carbon Disulfide	2.58	76	109239	15.18	ug/l	98
17) Allyl chloride	2.74	41	75161	17.52	ug/l	98
18) Methylene Chloride	2.87	84	46532	16.97	ug/l	98
19) trans-1,2-Dichloroethene	3.17	96	45332	16.56	ug/l	91
20) Diisopropyl ether	3.88	45	144517	21.33	ug/l	98
21) 1,1-Dichloroethane	3.71	63	82526	18.48	ug/l	99
22) cis-1,2-Dichloroethene	4.61	96	51136	20.10	ug/l	99
23) tert-Butyl Alcohol	3.06	59	44704	40.14	ug/l	# 100
24) Methyl tert-Butyl Ether	3.21	73	144796	16.70	ug/l	95
25) Chloroform	5.23	83	85848	19.39	ug/l	99
26) Cyclohexane	5.59	56	71577	20.45	ug/l	# 94
29) 1,1-Dichloropropene	5.81	75	61714	20.11	ug/l	99
30) 2-Butanone	4.71	43	162808	68.91	ug/l	97
31) 2,2-Dichloropropane	4.59	77	68586	20.78	ug/l	99
32) 1,1,1-Trichloroethane	5.51	97	75977	20.46	ug/l	98
33) Carbon Tetrachloride	5.79	117	65976	20.01	ug/l	96
34) Benzene	6.15	78	188153	21.30	ug/l	95
35) Methacrylonitrile	5.07	41	35361	16.26	ug/l	93
36) 1,2-Dichloroethane	6.21	62	71563	21.37	ug/l	100
37) Trichloroethene	7.22	130	56496	21.64	ug/l	93
38) Methylcyclohexane	7.47	83	72575	19.73	ug/l	96
39) 1,2-Dichloropropane	7.52	63	46882	21.26	ug/l	96
40) Dibromomethane	7.67	93	33292	19.60	ug/l	87

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	61480	19.04	ug/l	100
42) Vinyl Acetate	3.83	43	635808	105.59	ug/l	97
43) Ethyl Acetate	4.87	43	60416	14.56	ug/l	97
44) Isopropyl Acetate	6.47	43	101755	16.71	ug/l	99
45) 1,4-Dioxane	7.76	88	17771	232.08	ug/l	96
46) Methyl methacrylate	7.78	41	53304	18.00	ug/l	90
47) n-amyl Acetate	10.90	43	94961	17.86	ug/l	100
48) t-1,3-Dichloropropene	8.44	75	70920	18.87	ug/l	96
49) cis-1,3-Dichloropropene	9.05	75	67420	18.43	ug/l	96
50) 1,1,2-Trichloroethane	9.22	97	49840	19.98	ug/l	99
51) Ethyl methacrylate	9.19	69	67732	17.72	ug/l	94
52) 1,3-Dichloropropane	9.38	76	80050	20.01	ug/l	100
53) Dibromochloromethane	9.59	129	51599	18.59	ug/l	99
54) 1,2-Dibromoethane	9.68	107	51709	18.60	ug/l	96
55) 2-Chloroethyl vinyl ether	8.32	63	172456	103.35	ug/l	100
56) Bromoform	10.86	173	40032	17.81	ug/l #	96
58) 4-Methyl-2-Pentanone	8.65	43	330577	76.64	ug/l	98
59) 2-Hexanone	9.50	43	253905	69.52	ug/l	97
61) Tetrachloroethene	9.34	164	64374	26.92	ug/l	89
62) Toluene	8.79	91	212583	20.75	ug/l	99
64) Chlorobenzene	10.14	112	142697	20.61	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	52761	21.51	ug/l	96
66) Ethyl Benzene	10.26	91	235915	20.17	ug/l	98
67) m/p-Xylenes	10.37	106	184525	40.25	ug/l	99
68) o-Xylene	10.70	106	90390	20.30	ug/l	99
69) Styrene	10.71	104	148902	20.19	ug/l	99
70) Isopropylbenzene	11.02	105	244831	20.34	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	70514	17.02	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	66952m	18.02	ug/l	
73) Bromobenzene	11.26	156	70084	22.21	ug/l	95
74) n-propylbenzene	11.37	91	273451	19.38	ug/l	99
75) 2-Chlorotoluene	11.43	91	164319	20.26	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	205511	20.15	ug/l	67
77) t-1,4-Dichloro-2-butene	11.08	75	16278	12.39	ug/l	82
78) 4-Chlorotoluene	11.52	91	196040	20.17	ug/l	99
79) tert-butylbenzene	12.07	119	219567	21.62	ug/l	95
80) 1,2,4-Trimethylbenzene	11.81	105	213255	20.49	ug/l	98
81) sec-Butylbenzene	11.95	105	239624	19.09	ug/l	99
82) p-Isopropyltoluene	12.07	119	219567	19.61	ug/l	100
83) 1,3-Dichlorobenzene	12.03	146	127175	21.17	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	130539	20.85	ug/l	98
85) n-Butylbenzene	12.39	91	182751	17.40	ug/l	98
86) Hexachloroethane	12.60	117	31910	17.06	ug/l	72
87) 1,2-Dichlorobenzene	12.40	146	127029	21.33	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	14441	12.47	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	95453	21.83	ug/l	98
90) Hexachlorobutadiene	13.79	225	42685	22.66	ug/l	98
91) Naphthalene	13.84	128	251106	16.43	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	94092	21.40	ug/l	96

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

