

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX022018\
 Data File : VX000112.D
 Acq On : 20 Feb 2018 16:58
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX022018

Manual Integrations
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 2/22/2018 4:04:43 PM

Quant Time: Feb 21 06:23:40 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X022018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 21 06:17:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	16603	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	103267	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	98985	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.08	65	40519	31.53	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	105.10%
60) 4-Bromofluorobenzene	11.15	95	49297	30.44	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.47%
63) Toluene-d8	8.73	98	128599	30.33	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.10%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	22480	21.82	ug/l	97
3) Chloromethane	1.32	50	22375	21.67	ug/l	96
4) Vinyl Chloride	1.40	62	25852	21.04	ug/l	99
5) Bromomethane	1.65	94	21426	18.92	ug/l	94
6) Chloroethane	1.73	64	16931	21.53	ug/l	99
7) Trichlorofluoromethane	1.93	101	47259	22.20	ug/l	100
8) Diethyl Ether	2.20	74	15934	21.43	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.39	101	26199	22.56	ug/l	98
10) 1,1-Dichloroethene	2.38	96	24439	22.03	ug/l	94
11) Methyl Iodide	2.51	142	23313	21.62	ug/l	95
12) Methyl Acetate	2.79	43	40774	20.57	ug/l	99
13) Acrolein	2.30	56	23402	98.10	ug/l	97
14) Acrylonitrile	3.16	53	85847	99.93	ug/l	97
15) Acetone	2.45	58	26641	95.12	ug/l	85
16) Carbon Disulfide	2.57	76	68665	21.64	ug/l	99
17) Allyl chloride	2.73	41	40836	21.59	ug/l	95
18) Methylene Chloride	2.86	84	26035	21.54	ug/l	96
19) trans-1,2-Dichloroethene	3.17	96	25934	21.49	ug/l	98
20) Diisopropyl ether	3.88	45	61058	20.44	ug/l	97
21) 1,1-Dichloroethane	3.70	63	34951	17.76	ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	23702	21.14	ug/l	99
23) tert-Butyl Alcohol	3.09	59	44817	91.27	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	83668	21.89	ug/l	99
25) Chloroform	5.23	83	41829	21.43	ug/l	96
26) Cyclohexane	5.59	56	34233	22.18	ug/l #	99
29) 1,1-Dichloropropene	5.81	75	32033	21.30	ug/l	98
30) 2-Butanone	4.73	43	107186	92.59	ug/l	100
31) 2,2-Dichloropropane	4.59	77	32038	19.81	ug/l	100
32) 1,1,1-Trichloroethane	5.50	97	38210	21.00	ug/l	98
33) Carbon Tetrachloride	5.79	117	33908	20.99	ug/l	98
34) Benzene	6.15	78	90564	20.93	ug/l	93
35) Methacrylonitrile	5.08	41	19919	18.69	ug/l	87
36) 1,2-Dichloroethane	6.21	62	32207	19.63	ug/l	98
37) Trichloroethene	7.23	130	26054	20.37	ug/l	97
38) Methylcyclohexane	7.47	83	38101	21.13	ug/l	99
39) 1,2-Dichloropropane	7.53	63	22297	20.64	ug/l	99
40) Dibromomethane	7.67	93	17593	21.14	ug/l	92

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.91	83	31899	20.16	ug/l	96
42) Vinyl Acetate	3.84	43	290128	98.33	ug/l	100
43) Ethyl Acetate	4.88	43	38921	19.14	ug/l	98
44) Isopropyl Acetate	6.48	43	59853	20.06	ug/l	100
45) 1,4-Dioxane	7.77	88	13912	370.78	ug/l	99
46) Methyl methacrylate	7.79	41	28773	19.83	ug/l	97
47) n-amyl Acetate	10.91	43	53173	20.42	ug/l	98
48) t-1,3-Dichloropropene	8.45	75	36742	19.95	ug/l	97
49) cis-1,3-Dichloropropene	9.05	75	36866	20.57	ug/l	100
50) 1,1,2-Trichloroethane	9.23	97	25020	20.47	ug/l	96
51) Ethyl methacrylate	9.20	69	38104	20.35	ug/l	98
52) 1,3-Dichloropropane	9.38	76	40979	20.90	ug/l	99
53) Dibromochloromethane	9.59	129	27267	20.05	ug/l	96
54) 1,2-Dibromoethane	9.68	107	27560	20.23	ug/l	98
55) 2-Chloroethyl vinyl ether	8.32	63	89975	110.04	ug/l	99
56) Bromoform	10.87	173	21610	19.62	ug/l	98
58) 4-Methyl-2-Pentanone	8.66	43	211763	97.67	ug/l	99
59) 2-Hexanone	9.51	43	175196	95.43	ug/l	98
61) Tetrachloroethene	9.35	164	24779	20.62	ug/l	95
62) Toluene	8.79	91	107040	20.78	ug/l	99
64) Chlorobenzene	10.15	112	71839	20.64	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.23	131	25477	20.67	ug/l	98
66) Ethyl Benzene	10.26	91	120822	20.55	ug/l	99
67) m/p-Xylenes	10.37	106	96123	41.71	ug/l	98
68) o-Xylene	10.71	106	46145	20.61	ug/l	100
69) Styrene	10.72	104	76390	20.60	ug/l	99
70) Isopropylbenzene	11.03	105	125924	20.81	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.28	83	42676	20.50	ug/l	98
72) 1,2,3-Trichloropropane	11.30	75	36642m	19.62	ug/l	
73) Bromobenzene	11.26	156	31586	19.91	ug/l	97
74) n-propylbenzene	11.37	91	149269	21.05	ug/l	99
75) 2-Chlorotoluene	11.43	91	85943	21.08	ug/l	99
76) 1,3,5-Trimethylbenzene	11.52	105	106025	20.68	ug/l	67
77) t-1,4-Dichloro-2-butene	11.08	75	12642	19.14	ug/l	95
78) 4-Chlorotoluene	11.52	91	102834	21.05	ug/l	99
79) tert-butylbenzene	11.78	119	107651m	21.09	ug/l	
80) 1,2,4-Trimethylbenzene	11.82	105	110235	21.07	ug/l	100
81) sec-Butylbenzene	11.96	105	135471	21.47	ug/l	99
82) p-Isopropyltoluene	12.07	119	121427	21.57	ug/l	100
83) 1,3-Dichlorobenzene	12.04	146	63395	20.99	ug/l	98
84) 1,4-Dichlorobenzene	12.11	146	65432	20.79	ug/l	99
85) n-Butylbenzene	12.40	91	113331	21.47	ug/l	100
86) Hexachloroethane	12.60	117	19308	20.54	ug/l	100
87) 1,2-Dichlorobenzene	12.40	146	62983	21.04	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	11358	19.51	ug/l	95
89) 1,2,4-Trichlorobenzene	13.65	180	46067	20.96	ug/l	99
90) Hexachlorobutadiene	13.79	225	19124	20.19	ug/l	99
91) Naphthalene	13.85	128	158452	20.63	ug/l	99
92) 1,2,3-Trichlorobenzene	14.03	180	44981	20.35	ug/l	99

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

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