

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX043018\
 Data File : VX001260.D
 Acq On : 30 Apr 2018 17:30
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX043018

Manual Integrations
 APPROVED

MMDadoda
 5/2/2018 11:08:06 AM

Quant Time: May 01 09:20:33 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X043018W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 01 09:17:40 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	39343	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	223528	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	209127	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	86342	30.43	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.43%
60) 4-Bromofluorobenzene	11.14	95	103283	29.48	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.27%
63) Toluene-d8	8.72	98	270419	30.15	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.50%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	53683	20.81	ug/l	97
3) Chloromethane	1.32	50	49293	20.47	ug/l	97
4) Vinyl Chloride	1.40	62	50368	19.95	ug/l	100
5) Bromomethane	1.65	94	35174	18.44	ug/l	98
6) Chloroethane	1.73	64	30569	19.78	ug/l	99
7) Trichlorofluoromethane	1.93	101	81222	19.36	ug/l	100
8) Diethyl Ether	2.19	74	28027	19.24	ug/l	90
9) 1,1,2-Trichlorotrifluoroet	2.39	101	47730	20.06	ug/l	93
10) 1,1-Dichloroethene	2.38	96	41300	19.16	ug/l	96
11) Methyl Iodide	2.51	142	49421	18.85	ug/l	95
12) Methyl Acetate	2.78	43	54942	19.39	ug/l	99
13) Acrolein	2.29	56	33548	99.28	ug/l	98
14) Acrylonitrile	3.15	53	107234	95.09	ug/l	99
15) Acetone	2.45	58	33053	94.20	ug/l	95
16) Carbon Disulfide	2.57	76	108820	18.99	ug/l	99
17) Allyl chloride	2.73	41	72148	18.87	ug/l	98
18) Methylene Chloride	2.86	84	44691	19.03	ug/l	98
19) trans-1,2-Dichloroethene	3.17	96	44182	19.02	ug/l	89
20) Diisopropyl ether	3.87	45	140568	18.68	ug/l #	97
21) 1,1-Dichloroethane	3.70	63	80015	19.78	ug/l	97
22) cis-1,2-Dichloroethene	4.60	96	49701	19.16	ug/l	99
23) tert-Butyl Alcohol	3.06	59	44358	96.25	ug/l #	100
24) Methyl tert-Butyl Ether	3.20	73	139465	18.87	ug/l	95
25) Chloroform	5.22	83	82511	18.74	ug/l	97
26) Cyclohexane	5.58	56	71850	19.54	ug/l #	95
29) 1,1-Dichloropropene	5.80	75	61106	18.45	ug/l	98
30) 2-Butanone	4.70	43	158360	93.32	ug/l	96
31) 2,2-Dichloropropane	4.59	77	65427	18.10	ug/l	100
32) 1,1,1-Trichloroethane	5.50	97	72489	18.09	ug/l	99
33) Carbon Tetrachloride	5.79	117	64181	17.77	ug/l	98
34) Benzene	6.15	78	180081	18.35	ug/l	94
35) Methacrylonitrile	5.06	41	34317	18.22	ug/l	94
36) 1,2-Dichloroethane	6.20	62	69143	18.36	ug/l	100
37) Trichloroethene	7.22	130	55903	18.79	ug/l	96
38) Methylcyclohexane	7.46	83	77171	19.80	ug/l	96
39) 1,2-Dichloropropane	7.52	63	46257	18.59	ug/l	97
40) Dibromomethane	7.67	93	32141	18.36	ug/l	87

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	57352	17.34	ug/l	95
42) Vinyl Acetate	3.82	43	610576	91.47	ug/l	97
43) Ethyl Acetate	4.86	43	60949	18.65	ug/l	98
44) Isopropyl Acetate	6.47	43	100115	18.00	ug/l	97
45) 1,4-Dioxane	7.76	88	19568	387.14	ug/l	97
46) Methyl methacrylate	7.78	41	51504	17.80	ug/l	91
47) n-amyl Acetate	10.90	43	91624	17.17	ug/l	98
48) t-1,3-Dichloropropene	8.44	75	69580	17.87	ug/l	97
49) cis-1,3-Dichloropropene	9.04	75	62839	16.85	ug/l #	90
50) 1,1,2-Trichloroethane	9.22	97	46563	17.91	ug/l	99
51) Ethyl methacrylate	9.18	69	66196	17.87	ug/l	92
52) 1,3-Dichloropropane	9.38	76	77880	18.53	ug/l	99
53) Dibromochloromethane	9.59	129	49109	17.11	ug/l	97
54) 1,2-Dibromoethane	9.68	107	49966	17.95	ug/l	98
55) 2-Chloroethyl vinyl ether	8.32	63	158553	87.36	ug/l	99
56) Bromoform	10.86	173	38759	16.50	ug/l #	96
58) 4-Methyl-2-Pentanone	8.65	43	316912	91.30	ug/l	99
59) 2-Hexanone	9.50	43	246451	91.13	ug/l	97
61) Tetrachloroethene	9.34	164	63897	19.94	ug/l	92
62) Toluene	8.79	91	206983	18.42	ug/l	99
64) Chlorobenzene	10.14	112	139424	18.39	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	49277	17.80	ug/l	97
66) Ethyl Benzene	10.26	91	231805	18.48	ug/l	99
67) m/p-Xylenes	10.36	106	184938	37.11	ug/l	99
68) o-Xylene	10.70	106	88248	18.32	ug/l	100
69) Styrene	10.71	104	145324	18.13	ug/l	99
70) Isopropylbenzene	11.02	105	242027	18.50	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	68685	17.90	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	64410m	18.76	ug/l	
73) Bromobenzene	11.26	156	68897	18.13	ug/l	94
74) n-propylbenzene	11.37	91	278853	18.88	ug/l	100
75) 2-Chlorotoluene	11.43	91	164151	18.41	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	206935	18.57	ug/l	69
77) t-1,4-Dichloro-2-butene	11.08	75	15903	15.57	ug/l	81
78) 4-Chlorotoluene	11.51	91	193508	18.20	ug/l	100
79) tert-butylbenzene	12.07	119	229102	19.21	ug/l	95
80) 1,2,4-Trimethylbenzene	11.81	105	212079	18.70	ug/l	100
81) sec-Butylbenzene	11.95	105	247270	19.11	ug/l	98
82) p-Isopropyltoluene	12.07	119	229102	19.21	ug/l	100
83) 1,3-Dichlorobenzene	12.03	146	126377	18.23	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	127849	18.09	ug/l	98
85) n-Butylbenzene	12.39	91	197070	19.11	ug/l	98
86) Hexachloroethane	12.60	117	32457	17.81	ug/l	72
87) 1,2-Dichlorobenzene	12.40	146	123767	17.96	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	13644	17.02	ug/l	94
89) 1,2,4-Trichlorobenzene	13.65	180	99365	19.03	ug/l	98
90) Hexachlorobutadiene	13.79	225	51755	21.35	ug/l	98
91) Naphthalene	13.84	128	253911	18.74	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	98468	19.11	ug/l	97

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

