

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051818\
 Data File : VX001810.D
 Acq On : 18 May 2018 06:01
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX051818

Manual Integrations
 APPROVED

MMDadoda
 5/21/2018 2:40:35 PM

Quant Time: May 18 10:05:53 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X051818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 18 10:06:03 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	58621	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	247380	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	182161	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	114087	30.11	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.37%
60) 4-Bromofluorobenzene	11.14	95	82698	30.54	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	101.80%
63) Toluene-d8	8.72	98	285574	31.02	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.40%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	30865	19.09	ug/l	100
3) Chloromethane	1.32	50	65260	21.17	ug/l	100
4) Vinyl Chloride	1.40	62	55175	20.61	ug/l	99
5) Bromomethane	1.64	94	44992	25.62	ug/l	100
6) Chloroethane	1.73	64	40526	20.38	ug/l	95
7) Trichlorofluoromethane	1.93	101	58034	19.43	ug/l	100
8) Diethyl Ether	2.19	74	44543	21.22	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.39	101	32951	19.51	ug/l	97
10) 1,1-Dichloroethene	2.37	96	41084	19.87	ug/l	98
11) Methyl Iodide	2.51	142	64110	19.61	ug/l	98
12) Methyl Acetate	2.78	43	108144	21.52	ug/l	99
13) Acrolein	2.30	56	65487	109.17	ug/l	100
14) Acrylonitrile	3.15	53	202600	105.88	ug/l	99
15) Acetone	2.45	58	55013	105.30	ug/l	98
16) Carbon Disulfide	2.57	76	102611	19.84	ug/l	98
17) Allyl chloride	2.73	41	93214	20.16	ug/l	98
18) Methylene Chloride	2.86	84	66020	20.75	ug/l	96
19) trans-1,2-Dichloroethene	3.17	96	50926	19.97	ug/l	100
20) Diisopropyl ether	3.88	45	211431	21.01	ug/l	99
21) 1,1-Dichloroethane	3.70	63	104976	20.37	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	68633	20.74	ug/l	99
23) tert-Butyl Alcohol	3.08	59	87161	109.56	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	211519	21.49	ug/l	100
25) Chloroform	5.22	83	111739	20.35	ug/l	98
26) Cyclohexane	5.58	56	54203	19.32	ug/l #	99
29) 1,1-Dichloropropene	5.81	75	55942	19.93	ug/l	98
30) 2-Butanone	4.71	43	285726	112.90	ug/l	100
31) 2,2-Dichloropropane	4.59	77	34333	19.35	ug/l	98
32) 1,1,1-Trichloroethane	5.49	97	75474	20.29	ug/l	98
33) Carbon Tetrachloride	5.79	117	57846	19.48	ug/l	99
34) Benzene	6.15	78	234058	20.88	ug/l	95
35) Methacrylonitrile	5.07	41	60270	22.38	ug/l	96
36) 1,2-Dichloroethane	6.21	62	94583	21.59	ug/l	100
37) Trichloroethene	7.22	130	60469	19.74	ug/l	95
38) Methylcyclohexane	7.46	83	52144	20.15	ug/l	98
39) 1,2-Dichloropropane	7.53	63	62424	20.90	ug/l	95
40) Dibromomethane	7.67	93	45984	21.47	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	79323	21.03	ug/l	96
42) Vinyl Acetate	3.83	43	731956	106.73	ug/l	99
43) Ethyl Acetate	4.87	43	108523	22.51	ug/l	99
44) Isopropyl Acetate	6.48	43	157982	22.59	ug/l	99
45) 1,4-Dioxane	7.76	88	37973	444.01	ug/l	99
46) Methyl methacrylate	7.79	41	83356	22.65	ug/l	100
47) n-amyl Acetate	10.90	43	104908	21.67	ug/l	99
48) t-1,3-Dichloropropene	8.45	75	84749	21.36	ug/l	99
49) cis-1,3-Dichloropropene	9.05	75	74084	21.34	ug/l	96
50) 1,1,2-Trichloroethane	9.22	97	61605	20.95	ug/l	97
51) Ethyl methacrylate	9.19	69	87418	21.87	ug/l	100
52) 1,3-Dichloropropane	9.38	76	99236	21.28	ug/l	98
53) Dibromochloromethane	9.59	129	60500	21.16	ug/l	99
54) 1,2-Dibromoethane	9.68	107	63677	21.36	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	260419	111.54	ug/l	99
56) Bromoform	10.87	173	48718	20.85	ug/l	99
58) 4-Methyl-2-Pentanone	8.66	43	545599	119.81	ug/l	99
59) 2-Hexanone	9.51	43	356848	119.46	ug/l	99
61) Tetrachloroethene	9.34	164	54617	20.36	ug/l	98
62) Toluene	8.79	91	220446	20.96	ug/l	100
64) Chlorobenzene	10.15	112	129044	20.95	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.23	131	54429	21.90	ug/l	98
66) Ethyl Benzene	10.26	91	181087	20.71	ug/l	98
67) m/p-Xylenes	10.37	106	144614	41.37	ug/l	99
68) o-Xylene	10.71	106	75789	21.07	ug/l	98
69) Styrene	10.72	104	128873	21.49	ug/l	100
70) Isopropylbenzene	11.02	105	174643	20.69	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	87475	22.80	ug/l	100
72) 1,2,3-Trichloropropane	11.30	75	95572	26.18	ug/l	93
73) Bromobenzene	11.26	156	62847	21.00	ug/l	99
74) n-propylbenzene	11.37	91	182912	20.82	ug/l	99
75) 2-Chlorotoluene	11.43	91	125694	20.77	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	145945	20.79	ug/l	100
77) t-1,4-Dichloro-2-butene	11.08	75	17113	21.97	ug/l	97
78) 4-Chlorotoluene	11.52	91	138968	20.82	ug/l	100
79) tert-butylbenzene	12.07	119	144164	20.81	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	153937	21.23	ug/l	99
81) sec-Butylbenzene	11.95	105	159035	20.92	ug/l	100
82) p-Isopropyltoluene	12.07	119	144164	20.81	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	96499	20.69	ug/l	100
84) 1,4-Dichlorobenzene	12.10	146	97396	21.03	ug/l	99
85) n-Butylbenzene	12.40	91	104120	20.70	ug/l	99
86) Hexachloroethane	12.60	117	23335	20.21	ug/l	99
87) 1,2-Dichlorobenzene	12.40	146	107552	21.25	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	18313	22.52	ug/l	96
89) 1,2,4-Trichlorobenzene	13.65	180	68317	21.42	ug/l	99
90) Hexachlorobutadiene	13.79	225	32218	20.62	ug/l	99
91) Naphthalene	13.84	128	254305	22.89	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	77701	21.66	ug/l	98

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

