

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051118\
 Data File : VX001618.D
 Acq On : 10 May 2018 23:02
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

apatel
 5/14/2018 3:57:25 PM

Quant Time: May 11 07:04:39 2018
 Quant Method : W:\HPCHEM1\MSVOA X\METHOD\624X051118W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri May 11 06:59:10 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	54429	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	264183	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	242225	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	120706	30.63	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.10%
60) 4-Bromofluorobenzene	11.15	95	108852	26.98	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	89.93%
63) Toluene-d8	8.72	98	327179	31.18	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.93%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	12263	3.60	ug/l	98
3) Chloromethane	1.32	50	15268	4.67	ug/l	95
4) Vinyl Chloride	1.40	62	15661	4.56	ug/l	100
5) Bromomethane	1.64	94	8904	3.55	ug/l	96
6) Chloroethane	1.72	64	11028	5.14	ug/l	97
7) Trichlorofluoromethane	1.93	101	23130	4.15	ug/l	99
8) Diethyl Ether	2.19	74	10236	5.07	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	12510	3.94	ug/l	99
10) 1,1-Dichloroethene	2.37	96	13275	4.53	ug/l	94
11) Methyl Iodide	2.51	142	15509	4.19	ug/l	99
12) Methyl Acetate	2.78	43	23065	5.71	ug/l	97
13) Acrolein	2.30	56	13436	28.67	ug/l	96
14) Acrylonitrile	3.15	53	45991	28.58	ug/l	99
15) Acetone	2.45	58	12551	25.95	ug/l	99
16) Carbon Disulfide	2.57	76	28800	3.76	ug/l	98
17) Allyl chloride	2.73	41	24729	4.72	ug/l	99
18) Methylene Chloride	2.86	84	16682	5.18	ug/l	93
19) trans-1,2-Dichloroethene	3.17	96	14330	4.55	ug/l	97
20) Diisopropyl ether	3.89	45	44365	4.34	ug/l	98
21) 1,1-Dichloroethane	3.70	63	28277	5.12	ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	16071	4.58	ug/l #	81
23) tert-Butyl Alcohol	3.09	59	20534	30.63	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	48999	4.84	ug/l	98
25) Chloroform	5.22	83	28386	4.74	ug/l	98
26) Cyclohexane	5.58	56	17254	3.54	ug/l #	98
29) 1,1-Dichloropropene	5.81	75	16700	4.32	ug/l	99
30) 2-Butanone	4.72	43	60081	29.01	ug/l	100
31) 2,2-Dichloropropane	4.59	77	15170	3.76	ug/l	100
32) 1,1,1-Trichloroethane	5.50	97	21899	4.65	ug/l	98
33) Carbon Tetrachloride	5.79	117	18924	4.46	ug/l	97
34) Benzene	6.15	78	57098	4.95	ug/l	99
35) Methacrylonitrile	5.07	41	13052	5.70	ug/l	93
36) 1,2-Dichloroethane	6.20	62	24091	5.38	ug/l	98
37) Trichloroethene	7.22	130	16615	4.76	ug/l	98
38) Methylcyclohexane	7.47	83	16374	3.66	ug/l	97
39) 1,2-Dichloropropane	7.52	63	14657	5.01	ug/l	96
40) Dibromomethane	7.67	93	10393	5.03	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.90	83	18210	4.67	ug/l	94
42) Vinyl Acetate	3.83	43	185596	23.69	ug/l	100
43) Ethyl Acetate	4.87	43	22540	5.63	ug/l #	78
44) Isopropyl Acetate	6.48	43	33084	4.99	ug/l	100
45) 1,4-Dioxane	7.77	88	7650	118.66	ug/l	97
46) Methyl methacrylate	7.79	41	17516	5.03	ug/l	96
47) n-amyl Acetate	10.91	43	24457	3.91	ug/l	100
48) t-1,3-Dichloropropene	8.44	75	18221	4.01	ug/l	96
49) cis-1,3-Dichloropropene	9.05	75	15521	3.62	ug/l	99
50) 1,1,2-Trichloroethane	9.23	97	15342	5.00	ug/l	98
51) Ethyl methacrylate	9.19	69	19866	4.55	ug/l	97
52) 1,3-Dichloropropane	9.38	76	25389	5.10	ug/l	97
53) Dibromochloromethane	9.59	129	13995	4.17	ug/l	99
54) 1,2-Dibromoethane	9.68	107	15635	4.74	ug/l	97
55) 2-Chloroethyl vinyl ether	8.32	63	52400	24.07	ug/l	100
56) Bromoform	10.87	173	10204	3.71	ug/l	99
58) 4-Methyl-2-Pentanone	8.66	43	109778	26.46	ug/l	99
59) 2-Hexanone	9.51	43	82089	25.57	ug/l	97
61) Tetrachloroethene	9.34	164	18648	5.04	ug/l	99
62) Toluene	8.79	91	61549	4.76	ug/l	98
64) Chlorobenzene	10.15	112	40487	4.65	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.23	131	14605	4.59	ug/l	98
66) Ethyl Benzene	10.26	91	59218	4.16	ug/l	98
67) m/p-Xylenes	10.37	106	46190	8.11	ug/l	99
68) o-Xylene	10.71	106	23472	4.27	ug/l	97
69) Styrene	10.72	104	35989	3.93	ug/l	100
70) Isopropylbenzene	11.02	105	58305	3.93	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.27	83	21863	4.91	ug/l	98
72) 1,2,3-Trichloropropane	11.30	75	21351m	5.31	ug/l	
73) Bromobenzene	11.26	156	19084	4.40	ug/l	99
74) n-propylbenzene	11.37	91	61382	3.67	ug/l	99
75) 2-Chlorotoluene	11.43	91	41899	4.12	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	48572	3.84	ug/l	99
77) t-1,4-Dichloro-2-butene	11.08	75	3924	3.31	ug/l	74
78) 4-Chlorotoluene	11.52	91	45736	3.81	ug/l	100
79) tert-butylbenzene	12.07	119	46691	3.45	ug/l	99
80) 1,2,4-Trimethylbenzene	11.81	105	48028	3.74	ug/l	98
81) sec-Butylbenzene	11.95	105	53525	3.65	ug/l	100
82) p-Isopropyltoluene	12.07	119	46691	3.45	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	31862	4.05	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	31334	3.93	ug/l	98
85) n-Butylbenzene	12.40	91	34452	2.99	ug/l	99
86) Hexachloroethane	12.60	117	7244	3.48	ug/l	98
87) 1,2-Dichlorobenzene	12.40	146	33790	4.30	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.01	75	4380	4.61	ug/l	96
89) 1,2,4-Trichlorobenzene	13.65	180	20849	3.55	ug/l	99
90) Hexachlorobutadiene	13.79	225	11129	3.95	ug/l	97
91) Naphthalene	13.84	128	59981	3.84	ug/l	100
92) 1,2,3-Trichlorobenzene	14.03	180	23247	3.95	ug/l	99

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

