

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX050418\
 Data File : VX001397.D
 Acq On : 04 May 2018 15:00
 Operator : JC/MD
 Sample : VX0504WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0504WBSD01

Manual Integrations
 APPROVED

MMDadoda
 5/7/2018 7:28:02 PM

Quant Time: May 05 05:57:14 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	30315	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	155425	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	149749	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	62954	28.79	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.97%
60) 4-Bromofluorobenzene	11.14	95	71051	28.32	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.40%
63) Toluene-d8	8.72	98	191647	29.84	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.47%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	34712	17.465	ug/l 97
3) Chloromethane	1.32	50	31927	17.211	ug/l 99
4) Vinyl Chloride	1.40	62	34807	17.889	ug/l 96
5) Bromomethane	1.64	94	26776	18.219	ug/l 98
6) Chloroethane	1.72	64	22736	19.098	ug/l 99
7) Trichlorofluoromethane	1.93	101	64152	19.848	ug/l 100
8) Diethyl Ether	2.19	74	23034	20.526	ug/l 89
9) 1,1,2-Trichlorotrifluoroet	2.39	101	37091	20.236	ug/l 94
10) 1,1-Dichloroethene	2.37	96	31376	18.895	ug/l 94
11) Methyl Iodide	2.51	142	49171	24.346	ug/l 95
12) Methyl Acetate	2.78	43	59044	27.047	ug/l 94
13) Acrolein	2.30	56	12852	49.361	ug/l 99
14) Acrylonitrile	3.15	53	106824	122.942	ug/l 97
15) Acetone	2.45	58	30309	112.108	ug/l 95
16) Carbon Disulfide	2.57	76	66528	15.063	ug/l 98
17) Allyl chloride	2.73	41	55842	18.951	ug/l 96
18) Methylene Chloride	2.86	84	36599	20.222	ug/l 98
19) trans-1,2-Dichloroethene	3.17	96	33319	18.611	ug/l 92
20) Diisopropyl ether	3.88	45	101745	17.545	ug/l 98
21) 1,1-Dichloroethane	3.70	63	64977	20.850	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	36415	18.215	ug/l 97
23) tert-Butyl Alcohol	3.08	59	49143	138.394	ug/l 100
24) Methyl tert-Butyl Ether	3.21	73	120197	21.107	ug/l 95
25) Chloroform	5.22	83	63021	18.574	ug/l 99
26) Cyclohexane	5.57	56	46908	16.555	ug/l # 94
29) 1,1-Dichloropropene	5.81	75	42738	18.560	ug/l 100
30) 2-Butanone	4.72	43	137936	116.895	ug/l 99
31) 2,2-Dichloropropane	4.59	77	41018	16.317	ug/l 95
32) 1,1,1-Trichloroethane	5.50	97	50916	18.275	ug/l 98
33) Carbon Tetrachloride	5.79	117	45476	18.109	ug/l 97
34) Benzene	6.15	78	130063	19.062	ug/l 94
35) Methacrylonitrile	5.07	41	29831	22.782	ug/l 92
36) 1,2-Dichloroethane	6.21	62	52260	19.955	ug/l 99
37) Trichloroethene	7.22	130	40999	19.816	ug/l 94
38) Methylcyclohexane	7.46	83	49793	18.377	ug/l 95
39) 1,2-Dichloropropane	7.52	63	33719	19.487	ug/l 99
40) Dibromomethane	7.67	93	25256	20.747	ug/l 87

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	42814	18.617	ug/l	97
42) Vinyl Acetate	3.83	43	495721	106.799	ug/l	99
43) Ethyl Acetate	4.87	43	51949	22.861	ug/l	97
44) Isopropyl Acetate	6.48	43	79783	20.634	ug/l	99
45) 1,4-Dioxane	7.77	88	18541	527.547	ug/l	97
46) Methyl methacrylate	7.79	41	42197	20.977	ug/l	94
47) n-amyl Acetate	10.91	43	70660	19.043	ug/l	99
48) t-1,3-Dichloropropene	8.44	75	48055	17.750	ug/l	95
49) cis-1,3-Dichloropropene	9.05	75	44301	17.083	ug/l	96
50) 1,1,2-Trichloroethane	9.22	97	37972	21.003	ug/l	98
51) Ethyl methacrylate	9.19	69	51116	19.843	ug/l	95
52) 1,3-Dichloropropane	9.38	76	60755	20.789	ug/l	98
53) Dibromochloromethane	9.59	129	36913	18.499	ug/l	97
54) 1,2-Dibromoethane	9.68	107	39434	20.379	ug/l	99
55) 2-Chloroethyl vinyl ether	8.32	63	132172	104.740	ug/l	100
56) Bromoform	10.87	173	29747	18.214	ug/l #	97
58) 4-Methyl-2-Pentanone	8.66	43	281486	113.255	ug/l	98
59) 2-Hexanone	9.51	43	213167	110.080	ug/l	98
61) Tetrachloroethene	9.34	164	51294	22.352	ug/l	89
62) Toluene	8.79	91	146694	18.227	ug/l	98
64) Chlorobenzene	10.15	112	101433	18.681	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.23	131	37107	18.717	ug/l	97
66) Ethyl Benzene	10.26	91	163399	18.188	ug/l	97
67) m/p-Xylenes	10.37	106	128726	36.075	ug/l	100
68) o-Xylene	10.71	106	62852	18.223	ug/l	99
69) Styrene	10.72	104	102594	17.872	ug/l	99
70) Isopropylbenzene	11.02	105	171770	18.340	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	54101	19.693	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	51865m	21.096	ug/l	
73) Bromobenzene	11.26	156	50209	18.446	ug/l	94
74) n-propylbenzene	11.37	91	195829	18.511	ug/l	99
75) 2-Chlorotoluene	11.43	91	116252	18.207	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	147996	18.545	ug/l	67
77) t-1,4-Dichloro-2-butene	11.08	75	12066	16.495	ug/l	78
78) 4-Chlorotoluene	11.52	91	135049	17.734	ug/l	100
79) tert-butylbenzene	12.07	119	162155	18.989	ug/l	94
80) 1,2,4-Trimethylbenzene	11.81	105	149998	18.468	ug/l	100
81) sec-Butylbenzene	11.95	105	177751	19.182	ug/l	99
82) p-Isopropyltoluene	12.07	119	162155	18.989	ug/l	100
83) 1,3-Dichlorobenzene	12.03	146	90419	18.219	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	90472	17.881	ug/l	98
85) n-Butylbenzene	12.40	91	132654	17.964	ug/l	98
86) Hexachloroethane	12.60	117	21983	16.842	ug/l	67
87) 1,2-Dichlorobenzene	12.40	146	92773	18.799	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.01	75	11674	20.333	ug/l	90
89) 1,2,4-Trichlorobenzene	13.65	180	69672	18.633	ug/l	97
90) Hexachlorobutadiene	13.79	225	38792	22.348	ug/l	98
91) Naphthalene	13.84	128	197587	20.367	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	72488	19.641	ug/l	96

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

