

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080218\
 Data File : VX003828.D
 Acq On : 02 Aug 2018 16:31
 Operator : JC/MD
 Sample : VX0802WBSD01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0802WBSD01

Manual Integrations
 APPROVED

MMDadoda
 8/3/2018 9:48:28 AM

Quant Time: Aug 03 04:06:00 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X072718W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 27 16:17:43 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	22289	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.87	114	118542	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	109232	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	46883	28.65	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	95.50%
60) 4-Bromofluorobenzene	11.29	95	52459	29.83	ug/l	0.15
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.43%
63) Toluene-d8	8.72	98	151830	30.85	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.83%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	31983	27.17	ug/l	100
3) Chloromethane	1.32	50	37939	23.94	ug/l	98
4) Vinyl Chloride	1.40	62	32546	19.53	ug/l	100
5) Bromomethane	1.64	94	18302	18.37	ug/l	98
6) Chloroethane	1.72	64	19282	17.68	ug/l	99
7) Trichlorofluoromethane	1.93	101	42874	19.13	ug/l	100
8) Diethyl Ether	2.19	74	17221	17.92	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.39	101	25053	18.43	ug/l	98
10) 1,1-Dichloroethene	2.37	96	23963	18.75	ug/l	88
11) Methyl Iodide	2.51	142	28044	15.83	ug/l	94
12) Methyl Acetate	2.78	43	46153	19.52	ug/l	98
13) Acrolein	2.29	56	24745	134.18	ug/l	99
14) Acrylonitrile	3.15	53	80921	86.86	ug/l	100
15) Acetone	2.45	58	22230	87.93	ug/l	79
16) Carbon Disulfide	2.57	76	66232	18.66	ug/l	100
17) Allyl chloride	2.73	41	46921	17.74	ug/l	91
18) Methylene Chloride	2.85	84	27900	18.43	ug/l	99
19) trans-1,2-Dichloroethene	3.17	96	25463	18.43	ug/l	95
20) Diisopropyl ether	3.88	45	85939	17.70	ug/l	98
21) 1,1-Dichloroethane	3.70	63	49194	17.89	ug/l	100
22) cis-1,2-Dichloroethene	4.60	96	27821	19.95	ug/l #	75
23) tert-Butyl Alcohol	3.07	59	35401	90.46	ug/l #	100
24) Methyl tert-Butyl Ether	3.21	73	81050	17.68	ug/l	92
25) Chloroform	5.22	83	47416	19.91	ug/l	99
26) Cyclohexane	5.57	56	40305	19.51	ug/l #	97
29) 1,1-Dichloropropene	5.80	75	34486	19.70	ug/l	98
30) 2-Butanone	4.71	43	107970	96.58	ug/l	95
31) 2,2-Dichloropropane	4.59	77	32912	19.41	ug/l	99
32) 1,1,1-Trichloroethane	5.50	97	40243	20.09	ug/l	98
33) Carbon Tetrachloride	5.78	117	34783	19.99	ug/l	98
34) Benzene	6.15	78	107230	19.94	ug/l	99
35) Methacrylonitrile	5.07	41	22209	19.12	ug/l	91
36) 1,2-Dichloroethane	6.20	62	37888	19.60	ug/l	95
37) Trichloroethene	7.21	130	28411	20.27	ug/l	86
38) Methylcyclohexane	7.46	83	38405	19.31	ug/l	99
39) 1,2-Dichloropropane	7.52	63	28239	19.87	ug/l	98
40) Dibromomethane	7.67	93	18281	19.88	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	33940	19.31	ug/l	98
42) Vinyl Acetate	3.83	43	351155	81.75	ug/l	99
43) Ethyl Acetate	4.87	43	39869	19.09	ug/l	96
44) Isopropyl Acetate	6.47	43	60831	18.99	ug/l	95
45) 1,4-Dioxane	7.76	88	13802	388.04	ug/l #	86
46) Methyl methacrylate	7.78	41	31640	19.15	ug/l	91
47) n-amyl Acetate	10.97	43	52813	17.47	ug/l #	89
48) t-1,3-Dichloropropene	8.44	75	40691	19.08	ug/l	99
49) cis-1,3-Dichloropropene	9.05	75	36425	18.21	ug/l	91
50) 1,1,2-Trichloroethane	9.22	97	27730	18.99	ug/l	99
51) Ethyl methacrylate	9.18	69	38699	17.60	ug/l	87
52) 1,3-Dichloropropane	9.38	76	46036	18.95	ug/l	99
53) Dibromochloromethane	9.59	129	27040	18.85	ug/l	98
54) 1,2-Dibromoethane	9.68	107	28898	18.93	ug/l	100
55) 2-Chloroethyl vinyl ether	8.32	63	102383	90.29	ug/l	99
56) Bromoform	10.91	173	20530	18.45	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	208988	101.33	ug/l	94
59) 2-Hexanone	9.50	43	162452	98.92	ug/l	94
61) Tetrachloroethene	9.34	164	26957	21.21	ug/l	96
62) Toluene	8.79	91	117931	20.80	ug/l	98
64) Chlorobenzene	10.14	112	74571	20.35	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.23	131	26586	20.51	ug/l	99
66) Ethyl Benzene	10.26	91	124284	19.92	ug/l	100
67) m/p-Xylenes	10.36	106	97721	40.67	ug/l	98
68) o-Xylene	10.73	106	46763	20.34	ug/l	96
69) Styrene	10.74	104	78009	20.04	ug/l	97
70) Isopropylbenzene	11.12	105	126499	19.99	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.48	83	43531	19.27	ug/l	100
72) 1,2,3-Trichloropropane	11.52	75	38073m	20.26	ug/l	
73) Bromobenzene	11.46	156	33840	19.84	ug/l	97
74) n-propylbenzene	11.62	91	145497	19.52	ug/l	99
75) 2-Chlorotoluene	11.71	91	87172m	19.84	ug/l	
76) 1,3,5-Trimethylbenzene	11.86	105	106790	19.88	ug/l	99
77) t-1,4-Dichloro-2-butene	11.20	75	11597	18.11	ug/l	93
78) 4-Chlorotoluene	11.87	91	99761m	19.40	ug/l	
79) tert-butylbenzene	12.19	119	106311m	19.24	ug/l	
80) 1,2,4-Trimethylbenzene	12.23	105	111079m	20.21	ug/l	
81) sec-Butylbenzene	12.35	105	126315m	20.20	ug/l	
82) p-Isopropyltoluene	12.44	119	111085	20.10	ug/l	99
83) 1,3-Dichlorobenzene	12.41	146	62782	20.15	ug/l	100
84) 1,4-Dichlorobenzene	12.48	146	63979m	20.40	ug/l	
85) n-Butylbenzene	12.71	91	94305m	19.23	ug/l	
86) Hexachloroethane	12.90	117	16544m	18.58	ug/l	
87) 1,2-Dichlorobenzene	12.73	146	63625m	20.35	ug/l	
88) 1,2-Dibromo-3-Chloropropan	13.24	75	9345	19.59	ug/l	97
89) 1,2,4-Trichlorobenzene	13.82	180	44659	20.34	ug/l	99
90) Hexachlorobutadiene	13.94	225	21412m	21.51	ug/l	
91) Naphthalene	13.99	128	134196	20.00	ug/l	100
92) 1,2,3-Trichlorobenzene	14.16	180	46091	20.61	ug/l	100

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

