

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072018\
 Data File : VX003498.D
 Acq On : 20 Jul 2018 09:20
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 7/23/2018 12:34:32 PM

Quant Time: Jul 20 11:45:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071218W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 12 13:28:20 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	66516	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	6.86	114	325768	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	318284	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	136036	29.95	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.83%
60) 4-Bromofluorobenzene	11.14	95	153929	30.10	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.33%
63) Toluene-d8	8.71	98	420889	29.91	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.70%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.20	85	61040	12.09	ug/l	98
3) Chloromethane	1.32	50	75333	15.02	ug/l	98
4) Vinyl Chloride	1.40	62	84128	15.39	ug/l	97
5) Bromomethane	1.65	94	51252	22.61	ug/l	94
6) Chloroethane	1.73	64	53356	16.37	ug/l	100
7) Trichlorofluoromethane	1.93	101	114652	15.74	ug/l	95
8) Diethyl Ether	2.19	74	50930	17.10	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	2.39	101	76623	17.18	ug/l	96
10) 1,1-Dichloroethene	2.37	96	71339	17.24	ug/l #	78
11) Methyl Iodide	2.51	142	71944	19.99	ug/l	93
12) Methyl Acetate	2.78	43	99138	14.76	ug/l #	89
13) Acrolein	2.29	56	34156	65.44	ug/l	99
14) Acrylonitrile	3.15	53	208813	82.60	ug/l	99
15) Acetone	2.44	58	58174	87.78	ug/l	74
16) Carbon Disulfide	2.57	76	192033	16.25	ug/l	100
17) Allyl chloride	2.73	41	132592	16.85	ug/l	93
18) Methylene Chloride	2.86	84	82289	16.95	ug/l #	85
19) trans-1,2-Dichloroethene	3.17	96	76393	17.12	ug/l	99
20) Diisopropyl ether	3.87	45	251040	17.65	ug/l	97
21) 1,1-Dichloroethane	3.70	63	139215	16.69	ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	83563	17.62	ug/l	82
23) tert-Butyl Alcohol	3.05	59	83653	79.70	ug/l #	100
24) Methyl tert-Butyl Ether	3.20	73	240547m	17.41	ug/l	
25) Chloroform	5.21	83	134834	17.95	ug/l	99
26) Cyclohexane	5.58	56	114799	17.63	ug/l #	93
29) 1,1-Dichloropropene	5.80	75	98817	19.24	ug/l	97
30) 2-Butanone	4.70	43	263729	91.89	ug/l	94
31) 2,2-Dichloropropane	4.59	77	108551	19.57	ug/l	98
32) 1,1,1-Trichloroethane	5.49	97	115125	19.80	ug/l #	88
33) Carbon Tetrachloride	5.78	117	96979	19.00	ug/l	96
34) Benzene	6.14	78	298933	19.76	ug/l	95
35) Methacrylonitrile	5.06	41	55749	18.36	ug/l	93
36) 1,2-Dichloroethane	6.20	62	101829	19.36	ug/l #	95
37) Trichloroethene	7.21	130	81735	19.54	ug/l	93
38) Methylcyclohexane	7.46	83	109111	18.79	ug/l	96
39) 1,2-Dichloropropane	7.52	63	72198	18.47	ug/l	95
40) Dibromomethane	7.67	93	47464	18.49	ug/l	96

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

41) Bromodichloromethane	7.90	83	86165	17.97	ug/l	98
42) Vinyl Acetate	3.82	43	1022769	92.76	ug/l	97
43) Ethyl Acetate	4.85	43	99609	18.27	ug/l	97
44) Isopropyl Acetate	6.46	43	148256	17.74	ug/l	95
45) 1,4-Dioxane	7.75	88	30758	344.87	ug/l #	84
46) Methyl methacrylate	7.77	41	72739	16.83	ug/l	86
47) n-amyl Acetate	10.90	43	108592	15.09	ug/l #	88
48) t-1,3-Dichloropropene	8.43	75	107049	18.34	ug/l	96
49) cis-1,3-Dichloropropene	9.04	75	96897	18.33	ug/l	90
50) 1,1,2-Trichloroethane	9.21	97	73583	19.01	ug/l	97
51) Ethyl methacrylate	9.18	69	98824	17.52	ug/l	84
52) 1,3-Dichloropropane	9.37	76	119109	18.73	ug/l	98
53) Dibromochloromethane	9.59	129	70434	18.21	ug/l	100
54) 1,2-Dibromoethane	9.67	107	74667	18.60	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	253204	95.13	ug/l	98
56) Bromoform	10.86	173	54308	18.36	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	467139	82.39	ug/l	93
59) 2-Hexanone	9.49	43	350743	80.77	ug/l	92
61) Tetrachloroethene	9.34	164	97337	19.98	ug/l	99
62) Toluene	8.79	91	311834	17.96	ug/l	99
64) Chlorobenzene	10.14	112	207849	18.08	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	72582	17.80	ug/l	99
66) Ethyl Benzene	10.26	91	340226	17.73	ug/l	99
67) m/p-Xylenes	10.36	106	266339	35.67	ug/l	97
68) o-Xylene	10.70	106	127408	17.73	ug/l	95
69) Styrene	10.71	104	212839	17.82	ug/l	96
70) Isopropylbenzene	11.02	105	342438	17.98	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	99465	16.65	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	89124m	12.75	ug/l	
73) Bromobenzene	11.26	156	95454	18.03	ug/l	93
74) n-propylbenzene	11.36	91	396222	17.86	ug/l	98
75) 2-Chlorotoluene	11.42	91	234677	17.68	ug/l	97
76) 1,3,5-Trimethylbenzene	11.51	105	287643	17.84	ug/l	97
77) t-1,4-Dichloro-2-butene	11.07	75	26573	15.92	ug/l	98
78) 4-Chlorotoluene	11.51	91	270181	17.43	ug/l	97
79) tert-butylbenzene	12.07	119	303328	17.77	ug/l	97
80) 1,2,4-Trimethylbenzene	11.81	105	291262	17.78	ug/l	97
81) sec-Butylbenzene	11.95	105	339045	17.78	ug/l	100
82) p-Isopropyltoluene	12.07	119	303328	17.77	ug/l	97
83) 1,3-Dichlorobenzene	12.03	146	174909	17.83	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	176806	17.86	ug/l	99
85) n-Butylbenzene	12.39	91	258096	17.22	ug/l	99
86) Hexachloroethane	12.60	117	40566	16.14	ug/l	94
87) 1,2-Dichlorobenzene	12.40	146	174022	17.74	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.00	75	18337	14.77	ug/l	89
89) 1,2,4-Trichlorobenzene	13.65	180	121281	17.22	ug/l	100
90) Hexachlorobutadiene	13.79	225	60230	17.46	ug/l	98
91) Naphthalene	13.83	128	329710	16.24	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	122282	17.13	ug/l	99

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

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