

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX101619\
 Data File : VX013086.D
 Acq On : 16 Oct 2019 10:34
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 10/18/2019 4:51:40 PM

Quant Time: Oct 17 02:28:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X101619W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 17 02:18:04 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	33221	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	184529	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	166058	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	74852	32.31	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	107.70%
60) 4-Bromofluorobenzene	11.13	95	84160	30.23	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.77%
63) Toluene-d8	8.71	98	229027	31.09	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.63%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	10469	4.817 ug/l	97
3) Chloromethane	1.32	50	10812	5.556 ug/l	96
4) Vinyl Chloride	1.40	62	10567	5.264 ug/l	98
5) Bromomethane	1.63	94	5176	4.748 ug/l	94
6) Chloroethane	1.71	64	6975	5.710 ug/l	96
7) Trichlorofluoromethane	1.92	101	15988	4.872 ug/l	94
8) Diethyl Ether	2.18	74	5684	5.128 ug/l	93
9) 1,1,2-Trichlorotrifluoroet	2.37	101	10497	5.657 ug/l	98
10) 1,1-Dichloroethene	2.36	96	9755	5.245 ug/l	93
11) Methyl Iodide	2.50	142	8936	3.629 ug/l	98
12) Methyl Acetate	2.76	43	13425	5.164 ug/l	100
13) Acrolein	2.28	56	8126	25.140 ug/l	98
14) Acrylonitrile	3.13	53	27054	26.165 ug/l	98
15) Acetone	2.43	58	8606	27.167 ug/l	96
16) Carbon Disulfide	2.56	76	25636	5.289 ug/l	99
17) Allyl chloride	2.72	41	15871	5.659 ug/l	95
18) Methylene Chloride	2.84	84	11565	5.536 ug/l	92
19) trans-1,2-Dichloroethene	3.16	96	10333	5.233 ug/l	92
20) Diisopropyl ether	3.84	45	31191	5.351 ug/l	94
21) 1,1-Dichloroethane	3.69	63	17749	5.306 ug/l	96
22) cis-1,2-Dichloroethene	4.58	96	12527	5.517 ug/l	93
23) tert-Butyl Alcohol	3.03	59	14986	27.820 ug/l	# 100
24) Methyl tert-Butyl Ether	3.18	73	32192	5.283 ug/l	99
25) Chloroform	5.19	83	19068	5.255 ug/l	97
26) Cyclohexane	5.57	56	16977	5.578 ug/l	# 99
29) 1,1-Dichloropropene	5.79	75	14148	5.391 ug/l	98
30) 2-Butanone	4.66	43	38235	26.177 ug/l	99
31) 2,2-Dichloropropane	4.57	77	15747	6.377 ug/l	100
32) 1,1,1-Trichloroethane	5.48	97	16039	5.061 ug/l	# 78
33) Carbon Tetrachloride	5.78	117	13277	4.807 ug/l	96
34) Benzene	6.13	78	41351	5.230 ug/l	97
35) Methacrylonitrile	5.03	41	7774	5.189 ug/l	81
36) 1,2-Dichloroethane	6.18	62	15581	5.473 ug/l	# 91
37) Trichloroethene	7.20	130	11106	4.891 ug/l	97
38) Methylcyclohexane	7.45	83	16723	5.086 ug/l	97
39) 1,2-Dichloropropane	7.50	63	10531	5.308 ug/l	96
40) Dibromomethane	7.65	93	6907	4.841 ug/l	97

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

41) Bromodichloromethane	7.89	83	13054	4.890	ug/l #	94
42) Vinyl Acetate	3.80	43	126804	26.436	ug/l	100
43) Ethyl Acetate	4.83	43	14979	5.480	ug/l	100
44) Isopropyl Acetate	6.44	43	21752	4.840	ug/l	97
45) 1,4-Dioxane	7.73	88	5176	91.380	ug/l #	88
46) Methyl methacrylate	7.76	41	10918	5.035	ug/l	84
47) n-amyl Acetate	10.89	43	17458	4.429	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	13560	4.790	ug/l	96
49) cis-1,3-Dichloropropene	8.43	75	15517	5.012	ug/l	99
50) 1,1,2-Trichloroethane	9.20	97	10843	5.157	ug/l	96
51) Ethyl methacrylate	9.17	69	14947	4.574	ug/l	96
52) 1,3-Dichloropropane	9.36	76	17654	5.161	ug/l	98
53) Dibromochloromethane	9.57	129	9608	4.241	ug/l	100
54) 1,2-Dibromoethane	9.67	107	11042	4.824	ug/l	97
55) 2-Chloroethyl vinyl ether	8.30	63	31703	22.660	ug/l	99
56) Bromoform	10.85	173	5952	3.560	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	70087	24.601	ug/l	99
59) 2-Hexanone	9.48	43	51908	23.674	ug/l	99
61) Tetrachloroethene	9.33	164	10650	4.862	ug/l	94
62) Toluene	8.78	91	44408	5.014	ug/l	100
64) Chlorobenzene	10.14	112	28167	4.969	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.21	131	9783	4.719	ug/l	98
66) Ethyl Benzene	10.25	91	49348	4.951	ug/l	96
67) m/p-Xylenes	10.36	106	36684	9.663	ug/l	94
68) o-Xylene	10.70	106	18130	4.867	ug/l	100
69) Styrene	10.71	104	29565	4.704	ug/l	100
70) Isopropylbenzene	11.01	105	48844	4.922	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	15658	4.876	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	15460m	5.803	ug/l	
73) Bromobenzene	11.25	156	12161	4.663	ug/l	97
74) n-propylbenzene	11.35	91	51103	4.572	ug/l	98
75) 2-Chlorotoluene	11.42	91	32964	4.948	ug/l	98
76) 1,3,5-Trimethylbenzene	11.50	105	39892	4.758	ug/l	96
77) t-1,4-Dichloro-2-butene	11.07	75	3947	4.304	ug/l	91
78) 4-Chlorotoluene	11.51	91	37103	4.833	ug/l	98
79) tert-butylbenzene	11.76	119	36458	4.496	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	38807	4.590	ug/l	95
81) sec-Butylbenzene	11.94	105	45442	4.754	ug/l	100
82) p-Isopropyltoluene	12.06	119	39795	4.516	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	19958	4.292	ug/l	93
84) 1,4-Dichlorobenzene	12.09	146	20684	4.498	ug/l	98
85) n-Butylbenzene	12.39	91	33092	4.397	ug/l	99
86) Hexachloroethane	12.59	117	6383	4.441	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	21167	4.695	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	12.99	75	3117	4.392	ug/l	96
89) 1,2,4-Trichlorobenzene	13.64	180	12231	3.977	ug/l	99
90) Hexachlorobutadiene	13.78	225	6144	4.181	ug/l	96
91) Naphthalene	13.83	128	37542	3.947	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	12296	4.007	ug/l	98

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

