

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020819\
 Data File : VX007455.D
 Acq On : 08 Feb 2019 21:02
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 2/11/2019 9:44:24 AM

Quant Time: Feb 09 00:01:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X012519W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jan 28 10:35:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.03	128	80878	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	431740	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	388297	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	156404	29.46	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.20%
60) 4-Bromofluorobenzene	11.13	95	179299	29.92	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.73%
63) Toluene-d8	8.71	98	515483	29.45	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.17%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	63192	17.406 ug/l	97
3) Chloromethane	1.33	50	72552	17.876 ug/l	100
4) Vinyl Chloride	1.41	62	86036	18.680 ug/l	100
5) Bromomethane	1.64	94	84308	17.562 ug/l	99
6) Chloroethane	1.73	64	59555	19.187 ug/l	96
7) Trichlorofluoromethane	1.93	101	146855	18.886 ug/l	99
8) Diethyl Ether	2.19	74	56861	19.345 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.39	101	85627	18.644 ug/l	99
10) 1,1-Dichloroethene	2.38	96	79168	18.966 ug/l	97
11) Methyl Iodide	2.51	142	98096	14.485 ug/l	96
12) Methyl Acetate	2.78	43	143705	20.215 ug/l	99
13) Acrolein	2.30	56	38190	74.204 ug/l	96
14) Acrylonitrile	3.15	53	260543	97.892 ug/l	99
15) Acetone	2.45	58	71450	94.447 ug/l	96
16) Carbon Disulfide	2.57	76	182881	18.169 ug/l	97
17) Allyl chloride	2.73	41	134168	18.486 ug/l	98
18) Methylene Chloride	2.86	84	92655	19.259 ug/l	97
19) trans-1,2-Dichloroethene	3.17	96	84748	18.749 ug/l	97
20) Diisopropyl ether	3.87	45	265279	19.633 ug/l	97
21) 1,1-Dichloroethane	3.70	63	146679	19.007 ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	96882	19.490 ug/l	96
23) tert-Butyl Alcohol	3.07	59	111941	100.082 ug/l	100
24) Methyl tert-Butyl Ether	3.20	73	286735	19.611 ug/l	99
25) Chloroform	5.22	83	158586	19.882 ug/l	97
26) Cyclohexane	5.57	56	121001	18.617 ug/l	# 99
29) 1,1-Dichloropropene	5.80	75	111326	19.780 ug/l	98
30) 2-Butanone	4.70	43	336016	99.917 ug/l	98
31) 2,2-Dichloropropane	4.59	77	93201	16.391 ug/l	99
32) 1,1,1-Trichloroethane	5.49	97	131439	19.761 ug/l	99
33) Carbon Tetrachloride	5.78	117	113188	19.358 ug/l	94
34) Benzene	6.14	78	341514	19.672 ug/l	97
35) Methacrylonitrile	5.06	41	69848	20.348 ug/l	95
36) 1,2-Dichloroethane	6.20	62	115762	19.324 ug/l	99
37) Trichloroethene	7.21	130	102101	19.947 ug/l	96
38) Methylcyclohexane	7.46	83	132632	18.595 ug/l	97
39) 1,2-Dichloropropane	7.52	63	88322	20.287 ug/l	97
40) Dibromomethane	7.66	93	61923	19.745 ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	106935	19.429	ug/l	96
42) Vinyl Acetate	3.82	43	1080241	94.740	ug/l	100
43) Ethyl Acetate	4.85	43	122704	19.554	ug/l	99
44) Isopropyl Acetate	6.46	43	192337	19.625	ug/l	100
45) 1,4-Dioxane	7.75	88	45152	380.185	ug/l	99
46) Methyl methacrylate	7.77	41	98463	19.649	ug/l	98
47) n-amyl Acetate	10.90	43	170233	19.754	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	109853	18.300	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	124620	18.687	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	94400	20.056	ug/l	92
51) Ethyl methacrylate	9.18	69	134758	20.036	ug/l	95
52) 1,3-Dichloropropane	9.37	76	153467	20.362	ug/l	97
53) Dibromochloromethane	9.59	129	92579	19.460	ug/l	98
54) 1,2-Dibromoethane	9.67	107	102508	20.230	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	355726	96.145	ug/l	99
56) Bromoform	10.85	173	68312	18.911	ug/l	98
58) 4-Methyl-2-Pentanone	8.65	43	662402	102.018	ug/l	99
59) 2-Hexanone	9.49	43	504672	100.441	ug/l	99
61) Tetrachloroethene	9.34	164	107259	19.817	ug/l	96
62) Toluene	8.78	91	389656	19.936	ug/l	99
64) Chlorobenzene	10.14	112	258892	20.079	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	92974	20.358	ug/l	97
66) Ethyl Benzene	10.25	91	417852	19.732	ug/l	99
67) m/p-Xylenes	10.36	106	329134	39.357	ug/l	98
68) o-Xylene	10.69	106	160941	19.646	ug/l	99
69) Styrene	10.71	104	258766	19.579	ug/l	99
70) Isopropylbenzene	11.02	105	433158	19.972	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.27	83	141065	20.315	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	133801m	20.495	ug/l	
73) Bromobenzene	11.26	156	117638	19.597	ug/l	98
74) n-propylbenzene	11.36	91	476548	19.524	ug/l	99
75) 2-Chlorotoluene	11.42	91	289537	20.003	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	347717	19.210	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	33588	17.708	ug/l	97
78) 4-Chlorotoluene	11.51	91	323410	19.190	ug/l	99
79) tert-butylbenzene	12.06	119	379154	19.360	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	365103	19.920	ug/l	99
81) sec-Butylbenzene	11.94	105	423545	19.405	ug/l	99
82) p-Isopropyltoluene	12.06	119	379154	19.360	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	208390	19.529	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	209446	19.619	ug/l	99
85) n-Butylbenzene	12.38	91	304957	18.144	ug/l	99
86) Hexachloroethane	12.60	117	56209	18.563	ug/l	96
87) 1,2-Dichlorobenzene	12.39	146	211760	19.930	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	26491	18.717	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	138108	18.934	ug/l	99
90) Hexachlorobutadiene	13.78	225	66834	19.211	ug/l	98
91) Naphthalene	13.83	128	435898	19.742	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	141885	19.617	ug/l	99

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

