

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071919\
 Data File : VX010989.D
 Acq On : 19 Jul 2019 03:48
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 7/19/2019 9:56:17 AM

Quant Time: Jul 19 04:14:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 03:27:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	38187	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	207848	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	189041	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	74972	28.96	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.53%
60) 4-Bromofluorobenzene	11.13	95	89891	28.89	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.30%
63) Toluene-d8	8.71	98	254579	30.64	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.13%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	51314	20.325	ug/l 96
3) Chloromethane	1.33	50	43822	19.739	ug/l 99
4) Vinyl Chloride	1.41	62	47853	20.670	ug/l 97
5) Bromomethane	1.64	94	20126	15.792	ug/l 95
6) Chloroethane	1.73	64	31550	23.035	ug/l 91
7) Trichlorofluoromethane	1.93	101	77303	20.105	ug/l 94
8) Diethyl Ether	2.19	74	25117	19.892	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	42088	19.805	ug/l 98
10) 1,1-Dichloroethene	2.37	96	41612	19.484	ug/l 98
11) Methyl Iodide	2.51	142	29974	10.451	ug/l 95
12) Methyl Acetate	2.78	43	91993	30.669	ug/l 99
13) Acrolein	2.29	56	22707	63.137	ug/l 96
14) Acrylonitrile	3.14	53	119628	101.901	ug/l 100
15) Acetone	2.44	58	33688	103.051	ug/l 98
16) Carbon Disulfide	2.57	76	109792	20.007	ug/l 99
17) Allyl chloride	2.73	41	59946	19.389	ug/l 99
18) Methylene Chloride	2.85	84	47936	20.158	ug/l 95
19) trans-1,2-Dichloroethene	3.17	96	44524	19.735	ug/l 99
20) Diisopropyl ether	3.85	45	127812	19.582	ug/l 93
21) 1,1-Dichloroethane	3.70	63	74573	19.854	ug/l 99
22) cis-1,2-Dichloroethene	4.60	96	51225	19.742	ug/l 98
23) tert-Butyl Alcohol	3.04	59	61002	99.523	ug/l 100
24) Methyl tert-Butyl Ether	3.20	73	135110	19.707	ug/l 100
25) Chloroform	5.21	83	79637	19.358	ug/l 100
26) Cyclohexane	5.58	56	67193	19.549	ug/l # 96
29) 1,1-Dichloropropene	5.80	75	58134	19.889	ug/l 100
30) 2-Butanone	4.67	43	160360	101.636	ug/l 100
31) 2,2-Dichloropropane	4.59	77	41977	16.452	ug/l 98
32) 1,1,1-Trichloroethane	5.49	97	67809	19.237	ug/l 99
33) Carbon Tetrachloride	5.78	117	59076	19.276	ug/l 95
34) Benzene	6.14	78	179810	20.507	ug/l 99
35) Methacrylonitrile	5.04	41	33048	20.120	ug/l 98
36) 1,2-Dichloroethane	6.20	62	62363	19.892	ug/l # 88
37) Trichloroethene	7.21	130	52851	20.589	ug/l 96
38) Methylcyclohexane	7.46	83	71845	19.476	ug/l 100
39) 1,2-Dichloropropane	7.51	63	45678	20.842	ug/l 95
40) Dibromomethane	7.66	93	32530	20.181	ug/l 99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	56892	19.391	ug/l	100
42) Vinyl Acetate	3.81	43	419061	80.615	ug/l	99
43) Ethyl Acetate	4.84	43	55276	18.251	ug/l	98
44) Isopropyl Acetate	6.45	43	87044	17.645	ug/l	98
45) 1,4-Dioxane	7.74	88	26095	406.419	ug/l	97
46) Methyl methacrylate	7.77	41	47181	19.705	ug/l	99
47) n-amyl Acetate	10.90	43	70050	15.833	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	55438	17.929	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	64298	19.055	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	47896	20.303	ug/l	99
51) Ethyl methacrylate	9.18	69	71556	19.613	ug/l	97
52) 1,3-Dichloropropane	9.37	76	76254	20.115	ug/l	98
53) Dibromochloromethane	9.58	129	47755	18.744	ug/l	97
54) 1,2-Dibromoethane	9.67	107	51609	20.131	ug/l	96
55) 2-Chloroethyl vinyl ether	8.31	63	148079	95.842	ug/l	99
56) Bromoform	10.85	173	33421	17.613	ug/l	100
58) 4-Methyl-2-Pentanone	8.64	43	321593	100.732	ug/l	100
59) 2-Hexanone	9.49	43	249000	101.924	ug/l	99
61) Tetrachloroethene	9.34	164	51766	20.740	ug/l	95
62) Toluene	8.78	91	203446	20.258	ug/l	99
64) Chlorobenzene	10.14	112	130128	20.224	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	44838	19.174	ug/l	97
66) Ethyl Benzene	10.25	91	225053	19.907	ug/l	97
67) m/p-Xylenes	10.36	106	172026	39.771	ug/l	99
68) o-Xylene	10.69	106	83822	19.778	ug/l	99
69) Styrene	10.71	104	141457	19.856	ug/l	99
70) Isopropylbenzene	11.02	105	224352	19.879	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	74385	20.441	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	59406m	19.558	ug/l	
73) Bromobenzene	11.26	156	60687	19.930	ug/l	98
74) n-propylbenzene	11.36	91	249032	19.606	ug/l	100
75) 2-Chlorotoluene	11.42	91	149863	19.810	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	187107	19.587	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	12594	12.566	ug/l	97
78) 4-Chlorotoluene	11.51	91	170742	19.652	ug/l	99
79) tert-butylbenzene	11.77	119	182470	19.693	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	188575	19.603	ug/l	100
81) sec-Butylbenzene	11.94	105	215645	19.744	ug/l	99
82) p-Isopropyltoluene	12.06	119	199360	19.670	ug/l	100
83) 1,3-Dichlorobenzene	12.02	146	105424	19.612	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	104706	19.597	ug/l	99
85) n-Butylbenzene	12.38	91	164933	19.110	ug/l	99
86) Hexachloroethane	12.60	117	25956	16.238	ug/l	99
87) 1,2-Dichlorobenzene	12.39	146	104961	19.943	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	13.00	75	14307	17.858	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	70675	19.469	ug/l	97
90) Hexachlorobutadiene	13.78	225	33182	18.905	ug/l	98
91) Naphthalene	13.83	128	220187	19.879	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	71761	19.723	ug/l	100

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

