

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032219\
 Data File : VX008343.D
 Acq On : 22 Mar 2019 17:03
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 3/23/2019 9:33:23 AM

Quant Time: Mar 23 02:11:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 22 15:33:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	31934	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	166421	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	145216	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	65922	30.21	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.70%
60) 4-Bromofluorobenzene	11.13	95	73315	31.02	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	103.40%
63) Toluene-d8	8.71	98	201375	30.78	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	29450	17.188 ug/l	95
3) Chloromethane	1.33	50	31196	17.807 ug/l	96
4) Vinyl Chloride	1.41	62	35613	18.036 ug/l	100
5) Bromomethane	1.64	94	32588	9.104 ug/l	100
6) Chloroethane	1.73	64	23222	16.548 ug/l	93
7) Trichlorofluoromethane	1.93	101	54255	17.261 ug/l	99
8) Diethyl Ether	2.19	74	21602	17.720 ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.39	101	28631	16.470 ug/l	97
10) 1,1-Dichloroethene	2.38	96	30875	17.994 ug/l	99
11) Methyl Iodide	2.51	142	38688	14.915 ug/l	99
12) Methyl Acetate	2.78	43	33928	18.120 ug/l	94
13) Acrolein	2.29	56	27786	94.730 ug/l	99
14) Acrylonitrile	3.14	53	86113	92.675 ug/l	98
15) Acetone	2.45	58	25636	70.357 ug/l	95
16) Carbon Disulfide	2.57	76	86338	18.147 ug/l	100
17) Allyl chloride	2.73	41	43649	17.239 ug/l	91
18) Methylene Chloride	2.86	84	33808	18.303 ug/l	94
19) trans-1,2-Dichloroethene	3.17	96	32424	17.801 ug/l	95
20) Diisopropyl ether	3.86	45	97940	18.499 ug/l	95
21) 1,1-Dichloroethane	3.70	63	59038	18.882 ug/l	97
22) cis-1,2-Dichloroethene	4.60	96	38566	18.358 ug/l	96
23) tert-Butyl Alcohol	3.04	59	35633	94.462 ug/l	# 100
24) Methyl tert-Butyl Ether	3.20	73	102588	18.610 ug/l	98
25) Chloroform	5.21	83	61254	18.468 ug/l	97
26) Cyclohexane	5.59	56	49418	17.871 ug/l	# 100
29) 1,1-Dichloropropene	5.81	75	43824	18.541 ug/l	98
30) 2-Butanone	4.68	43	119487	87.765 ug/l	97
31) 2,2-Dichloropropane	4.59	77	40249	18.086 ug/l	99
32) 1,1,1-Trichloroethane	5.50	97	52625	18.922 ug/l	98
33) Carbon Tetrachloride	5.79	117	45988	18.005 ug/l	98
34) Benzene	6.15	78	136373	19.369 ug/l	98
35) Methacrylonitrile	5.05	41	22657	17.866 ug/l	95
36) 1,2-Dichloroethane	6.20	62	50750	19.556 ug/l	99
37) Trichloroethene	7.21	130	37624	18.175 ug/l	93
38) Methylcyclohexane	7.46	83	50598	17.080 ug/l	99
39) 1,2-Dichloropropane	7.51	63	34185	19.081 ug/l	99
40) Dibromomethane	7.66	93	25670	19.536 ug/l	94

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

41) Bromodichloromethane	7.90	83	47127	18.901	ug/l	97
42) Vinyl Acetate	3.82	43	434548	94.963	ug/l	99
43) Ethyl Acetate	4.84	43	47034	19.572	ug/l #	80
44) Isopropyl Acetate	6.45	43	71004	18.774	ug/l	97
45) 1,4-Dioxane	7.74	88	18446	387.777	ug/l	97
46) Methyl methacrylate	7.77	41	34928	18.822	ug/l	90
47) n-amyl Acetate	10.90	43	59593	18.379	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	43872	17.574	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	49915	17.919	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	36868	19.531	ug/l	96
51) Ethyl methacrylate	9.18	69	53734	19.498	ug/l	98
52) 1,3-Dichloropropane	9.37	76	58863	19.443	ug/l	99
53) Dibromochloromethane	9.58	129	38407	18.049	ug/l	100
54) 1,2-Dibromoethane	9.67	107	39889	19.260	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	140868	101.598	ug/l	99
56) Bromoform	10.85	173	27722	16.502	ug/l	100
58) 4-Methyl-2-Pentanone	8.64	43	235736	96.415	ug/l	96
59) 2-Hexanone	9.49	43	178399	92.239	ug/l	97
61) Tetrachloroethene	9.34	164	33324	17.048	ug/l	95
62) Toluene	8.79	91	147256	19.104	ug/l	99
64) Chlorobenzene	10.14	112	93692	18.854	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	34605	18.233	ug/l	98
66) Ethyl Benzene	10.25	91	155787	18.688	ug/l	100
67) m/p-Xylenes	10.36	106	120556	36.387	ug/l	98
68) o-Xylene	10.69	106	58444	18.363	ug/l	99
69) Styrene	10.71	104	99029	18.430	ug/l	97
70) Isopropylbenzene	11.02	105	154124	18.405	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	55389	19.398	ug/l	99
72) 1,2,3-Trichloropropane	11.29	75	51826m	22.531	ug/l	
73) Bromobenzene	11.26	156	40615	17.530	ug/l	92
74) n-propylbenzene	11.36	91	166887	17.880	ug/l	99
75) 2-Chlorotoluene	11.42	91	104047	18.666	ug/l	96
76) 1,3,5-Trimethylbenzene	11.51	105	130439	18.234	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	13745	16.868	ug/l	94
78) 4-Chlorotoluene	11.51	91	118059	17.996	ug/l	95
79) tert-butylbenzene	12.06	119	131373	17.458	ug/l	97
80) 1,2,4-Trimethylbenzene	11.80	105	130652	18.380	ug/l	96
81) sec-Butylbenzene	11.94	105	143729	17.615	ug/l	99
82) p-Isopropyltoluene	12.06	119	131373	17.458	ug/l	97
83) 1,3-Dichlorobenzene	12.02	146	69141	17.194	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	68901	17.205	ug/l	97
85) n-Butylbenzene	12.39	91	107153	16.554	ug/l	98
86) Hexachloroethane	12.60	117	22714	17.514	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	69901	17.626	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	11891	18.191	ug/l	88
89) 1,2,4-Trichlorobenzene	13.65	180	44177	15.739	ug/l	99
90) Hexachlorobutadiene	13.78	225	21303	15.077	ug/l	99
91) Naphthalene	13.83	128	153889	18.255	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	46730	16.468	ug/l	97

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

