

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX022219\
 Data File : VX007660.D
 Acq On : 22 Feb 2019 15:22
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 2/25/2019 9:47:37 AM

Quant Time: Feb 23 01:16:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X021319W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Feb 13 07:51:18 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	67717	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	355629	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	325054	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	134518	30.71	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.37%
60) 4-Bromofluorobenzene	11.13	95	153811	30.83	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.77%
63) Toluene-d8	8.71	98	442046	30.09	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.30%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	72893	21.257	ug/l 99
3) Chloromethane	1.33	50	77379	20.532	ug/l 93
4) Vinyl Chloride	1.41	62	83977	19.810	ug/l 99
5) Bromomethane	1.65	94	61512	16.249	ug/l 96
6) Chloroethane	1.73	64	53340	18.511	ug/l 100
7) Trichlorofluoromethane	1.93	101	128608	19.354	ug/l 98
8) Diethyl Ether	2.19	74	51196	19.287	ug/l 95
9) 1,1,2-Trichlorotrifluoroet	2.38	101	76947	20.524	ug/l 98
10) 1,1-Dichloroethene	2.38	96	72653	19.529	ug/l 96
11) Methyl Iodide	2.51	142	107488	20.103	ug/l 97
12) Methyl Acetate	2.78	43	90808	17.700	ug/l 99
13) Acrolein	2.30	56	62687	70.045	ug/l 99
14) Acrylonitrile	3.15	53	217509	92.011	ug/l 98
15) Acetone	2.45	58	59653	92.983	ug/l 98
16) Carbon Disulfide	2.57	76	187297	18.985	ug/l 98
17) Allyl chloride	2.73	41	117045	18.363	ug/l 99
18) Methylene Chloride	2.86	84	78933	18.867	ug/l 96
19) trans-1,2-Dichloroethene	3.17	96	77467	19.469	ug/l 98
20) Diisopropyl ether	3.87	45	241522	20.050	ug/l 98
21) 1,1-Dichloroethane	3.70	63	134835	19.966	ug/l 100
22) cis-1,2-Dichloroethene	4.60	96	88443	19.973	ug/l 99
23) tert-Butyl Alcohol	3.07	59	85207	85.757	ug/l 100
24) Methyl tert-Butyl Ether	3.21	73	241377	18.696	ug/l 97
25) Chloroform	5.21	83	145054	20.337	ug/l 93
26) Cyclohexane	5.58	56	112099	19.795	ug/l # 98
29) 1,1-Dichloropropene	5.80	75	99707	20.100	ug/l 99
30) 2-Butanone	4.70	43	288329	98.216	ug/l 98
31) 2,2-Dichloropropane	4.59	77	92755	23.014	ug/l 97
32) 1,1,1-Trichloroethane	5.50	97	121468	20.486	ug/l 99
33) Carbon Tetrachloride	5.79	117	104386	19.916	ug/l 95
34) Benzene	6.15	78	312538	19.985	ug/l 98
35) Methacrylonitrile	5.06	41	61710	20.217	ug/l 98
36) 1,2-Dichloroethane	6.20	62	106623	20.035	ug/l 99
37) Trichloroethene	7.21	130	90066	20.032	ug/l 100
38) Methylcyclohexane	7.46	83	117049	20.383	ug/l 98
39) 1,2-Dichloropropane	7.52	63	77014	19.799	ug/l 96
40) Dibromomethane	7.66	93	56894	20.252	ug/l 97

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

41) Bromodichloromethane	7.90	83	99924	20.043	ug/l #	95
42) Vinyl Acetate	3.82	43	1038478	101.062	ug/l	100
43) Ethyl Acetate	4.85	43	110677	19.687	ug/l #	81
44) Isopropyl Acetate	6.46	43	169730	19.554	ug/l	100
45) 1,4-Dioxane	7.75	88	36029	351.706	ug/l	99
46) Methyl methacrylate	7.77	41	85497	19.451	ug/l	97
47) n-amyl Acetate	10.90	43	154840	20.239	ug/l	97
48) t-1,3-Dichloropropene	9.04	75	102791	19.973	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	115891	20.221	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	86417	21.097	ug/l	93
51) Ethyl methacrylate	9.18	69	115354	19.425	ug/l	97
52) 1,3-Dichloropropane	9.37	76	137825	20.860	ug/l	98
53) Dibromochloromethane	9.58	129	84222	19.769	ug/l	96
54) 1,2-Dibromoethane	9.67	107	92403	20.601	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	307480	101.843	ug/l	99
56) Bromoform	10.85	173	61567	19.158	ug/l	99
58) 4-Methyl-2-Pentanone	8.65	43	576068	98.527	ug/l	100
59) 2-Hexanone	9.49	43	437956	98.617	ug/l	99
61) Tetrachloroethene	9.33	164	93676	20.301	ug/l	94
62) Toluene	8.79	91	354313	20.014	ug/l	99
64) Chlorobenzene	10.14	112	229042	19.909	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	84075	20.177	ug/l	99
66) Ethyl Benzene	10.25	91	371958	19.800	ug/l	98
67) m/p-Xylenes	10.36	106	297130	40.326	ug/l	98
68) o-Xylene	10.70	106	143798	20.010	ug/l	97
69) Styrene	10.71	104	232229	20.025	ug/l	98
70) Isopropylbenzene	11.02	105	378202	19.948	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	127398	20.328	ug/l	99
72) 1,2,3-Trichloropropane	11.30	75	118625m	20.701	ug/l	
73) Bromobenzene	11.26	156	103865	20.066	ug/l	99
74) n-propylbenzene	11.36	91	424952	20.187	ug/l	100
75) 2-Chlorotoluene	11.42	91	255748	20.319	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	305052	19.711	ug/l	100
77) t-1,4-Dichloro-2-butene	11.07	75	31931	19.305	ug/l	98
78) 4-Chlorotoluene	11.51	91	283681	19.745	ug/l	99
79) tert-butylbenzene	12.06	119	327566	19.933	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	320001	20.369	ug/l	99
81) sec-Butylbenzene	11.94	105	371000	20.074	ug/l	99
82) p-Isopropyltoluene	12.06	119	327566	19.933	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	183902	20.210	ug/l	99
84) 1,4-Dichlorobenzene	12.10	146	181496	19.987	ug/l	98
85) n-Butylbenzene	12.39	91	273535	20.059	ug/l	99
86) Hexachloroethane	12.60	117	53663	19.669	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	183816	20.126	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	24859	19.007	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	119291	19.887	ug/l	99
90) Hexachlorobutadiene	13.78	225	58052	20.713	ug/l	100
91) Naphthalene	13.83	128	369519	19.315	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	120780	19.807	ug/l	99

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

