

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040919\
 Data File : VX008760.D
 Acq On : 09 Apr 2019 09:48
 Operator : JC/SP
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 4/10/2019 4:20:51 PM

Quant Time: Apr 09 14:08:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032719W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Mar 27 12:01:15 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	35153	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	204675	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	178817	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	87899	29.89	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.63%
60) 4-Bromofluorobenzene	11.13	95	91614	29.41	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.03%
63) Toluene-d8	8.71	98	258099	30.41	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.37%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	42787	17.800	ug/l 98
3) Chloromethane	1.32	50	54509	17.308	ug/l 93
4) Vinyl Chloride	1.41	62	54200	17.073	ug/l 99
5) Bromomethane	1.64	94	27754	16.873	ug/l 94
6) Chloroethane	1.72	64	33012	15.888	ug/l 97
7) Trichlorofluoromethane	1.93	101	64718	18.367	ug/l 98
8) Diethyl Ether	2.19	74	29731	17.892	ug/l 79
9) 1,1,2-Trichlorotrifluoroet	2.39	101	40295	18.364	ug/l 95
10) 1,1-Dichloroethene	2.37	96	39943	17.943	ug/l 85
11) Methyl Iodide	2.51	142	34497	14.965	ug/l 95
12) Methyl Acetate	3.19	43	34560	19.155	ug/l 98
13) Acrolein	2.29	56	59633	115.210	ug/l 97
14) Acrylonitrile	3.14	53	166344	99.722	ug/l 99
15) Acetone	2.44	58	52772	102.591	ug/l 96
16) Carbon Disulfide	2.57	76	119879	17.311	ug/l 100
17) Allyl chloride	2.73	41	97497	19.487	ug/l 90
18) Methylene Chloride	2.85	84	49878	18.744	ug/l # 85
19) trans-1,2-Dichloroethene	3.17	96	44508	18.714	ug/l 90
20) Diisopropyl ether	3.85	45	194656	19.990	ug/l # 91
21) 1,1-Dichloroethane	3.69	63	94531	19.340	ug/l 96
22) cis-1,2-Dichloroethene	4.59	96	52676	19.167	ug/l # 80
23) tert-Butyl Alcohol	3.05	59	63899	94.865	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	159249	19.465	ug/l 99
25) Chloroform	5.21	83	85832	19.386	ug/l 95
26) Cyclohexane	5.57	56	91691	19.309	ug/l # 84
29) 1,1-Dichloropropene	5.79	75	65582	19.046	ug/l 93
30) 2-Butanone	4.67	43	266558	105.273	ug/l 93
31) 2,2-Dichloropropane	4.58	77	69276	20.144	ug/l # 77
32) 1,1,1-Trichloroethane	5.49	97	69419	19.414	ug/l 96
33) Carbon Tetrachloride	5.78	117	58051	19.404	ug/l 92
34) Benzene	6.14	78	203855	19.367	ug/l # 96
35) Methacrylonitrile	5.04	41	51314	19.928	ug/l 90
36) 1,2-Dichloroethane	6.19	62	72372	19.285	ug/l 97
37) Trichloroethene	7.21	130	48011	19.834	ug/l 86
38) Methylcyclohexane	7.46	83	84892	19.565	ug/l 88
39) 1,2-Dichloropropane	7.51	63	57306	19.195	ug/l 99
40) Dibromomethane	7.66	93	32222	18.632	ug/l 90

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

41) Bromodichloromethane	7.90	83	64661	19.015	ug/l	99
42) Vinyl Acetate	3.81	43	853324	99.414	ug/l #	93
43) Ethyl Acetate	4.83	43	93170	20.444	ug/l #	81
44) Isopropyl Acetate	6.44	43	145132	19.695	ug/l	97
45) 1,4-Dioxane	7.74	88	26066	355.322	ug/l #	79
46) Methyl methacrylate	7.77	41	73089	19.529	ug/l	89
47) n-amyl Acetate	10.90	43	123150	18.397	ug/l	94
48) t-1,3-Dichloropropene	9.04	75	72227	18.805	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	81817	19.045	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	49364	19.224	ug/l	96
51) Ethyl methacrylate	9.18	69	88737	18.570	ug/l	91
52) 1,3-Dichloropropane	9.37	76	87706	19.198	ug/l	99
53) Dibromochloromethane	9.58	129	47480	18.789	ug/l	99
54) 1,2-Dibromoethane	9.67	107	50317	19.008	ug/l	98
55) 2-Chloroethyl vinyl ether	8.30	63	243940	101.187	ug/l	94
56) Bromoform	10.85	173	34350	18.652	ug/l #	98
58) 4-Methyl-2-Pentanone	8.64	43	480409	101.836	ug/l #	94
59) 2-Hexanone	9.49	43	380089	101.982	ug/l	96
61) Tetrachloroethene	9.34	164	42963	21.965	ug/l	98
62) Toluene	8.78	91	211209	19.509	ug/l	100
64) Chlorobenzene	10.13	112	123328	19.441	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	44387	19.845	ug/l	97
66) Ethyl Benzene	10.25	91	228716	19.033	ug/l	95
67) m/p-Xylenes	10.35	106	164957	37.635	ug/l	91
68) o-Xylene	10.69	106	80425	18.751	ug/l	93
69) Styrene	10.71	104	138997	18.624	ug/l	97
70) Isopropylbenzene	11.02	105	216934	19.174	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.27	83	79977	18.922	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	71185m	19.924	ug/l	
73) Bromobenzene	11.26	156	50818	18.878	ug/l	79
74) n-propylbenzene	11.36	91	253493	18.807	ug/l	95
75) 2-Chlorotoluene	11.42	91	150379	18.753	ug/l	90
76) 1,3,5-Trimethylbenzene	11.51	105	183548	18.975	ug/l	97
77) t-1,4-Dichloro-2-butene	11.07	75	25803	18.828	ug/l	93
78) 4-Chlorotoluene	11.51	91	169466	18.362	ug/l	91
79) tert-butylbenzene	12.06	119	190948	19.316	ug/l	96
80) 1,2,4-Trimethylbenzene	11.80	105	183803	19.057	ug/l	96
81) sec-Butylbenzene	11.94	105	209837	18.986	ug/l	96
82) p-Isopropyltoluene	12.06	119	190948	19.316	ug/l	96
83) 1,3-Dichlorobenzene	12.02	146	90682	18.976	ug/l	96
84) 1,4-Dichlorobenzene	12.10	146	89671	18.777	ug/l	96
85) n-Butylbenzene	12.38	91	175521	18.687	ug/l	97
86) Hexachloroethane	12.60	117	31153	18.862	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	89656	18.619	ug/l	97
88) 1,2-Dibromo-3-Chloropropan	13.00	75	16771	17.902	ug/l #	77
89) 1,2,4-Trichlorobenzene	13.65	180	61849	18.621	ug/l	97
90) Hexachlorobutadiene	13.78	225	32343	20.212	ug/l	99
91) Naphthalene	13.83	128	204805	17.997	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	62575	18.702	ug/l	99

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

