

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX030819\
 Data File : VX007925.D
 Acq On : 08 Mar 2019 12:06
 Operator : JC/SP
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX030819

Manual Integrations
 APPROVED

MMDadoda
 3/11/2019 9:31:08 AM

Quant Time: Mar 08 13:59:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X030819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 08 12:01:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	46672	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	254080	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	223411	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	91526	29.84	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.47%
60) 4-Bromofluorobenzene	11.13	95	106580	29.89	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.63%
63) Toluene-d8	8.71	98	307359	30.06	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.20%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	51750	18.677	ug/l 98
3) Chloromethane	1.33	50	56024	18.183	ug/l 97
4) Vinyl Chloride	1.41	62	54874	17.980	ug/l 100
5) Bromomethane	1.64	94	35918	23.606	ug/l 99
6) Chloroethane	1.73	64	32497	18.232	ug/l 97
7) Trichlorofluoromethane	1.93	101	67551	17.774	ug/l 97
8) Diethyl Ether	2.19	74	37032	18.921	ug/l 88
9) 1,1,2-Trichlorotrifluoroet	2.39	101	54172	18.959	ug/l 98
10) 1,1-Dichloroethene	2.38	96	51949	19.182	ug/l 96
11) Methyl Iodide	2.51	142	69867	16.480	ug/l 93
12) Methyl Acetate	2.78	43	78704	18.375	ug/l 94
13) Acrolein	2.30	56	50469	100.436	ug/l 98
14) Acrylonitrile	3.15	53	176508	97.078	ug/l 100
15) Acetone	2.45	58	58107	88.518	ug/l 97
16) Carbon Disulfide	2.57	76	170689	20.088	ug/l 99
17) Allyl chloride	2.73	41	105586	19.016	ug/l 91
18) Methylene Chloride	2.86	84	58622	19.000	ug/l 94
19) trans-1,2-Dichloroethene	3.17	96	55534	19.380	ug/l 96
20) Diisopropyl ether	3.87	45	195226	19.220	ug/l 91
21) 1,1-Dichloroethane	3.70	63	103681	18.768	ug/l 98
22) cis-1,2-Dichloroethene	4.60	96	63174	19.112	ug/l 92
23) tert-Butyl Alcohol	3.07	59	73472	100.164	ug/l # 100
24) Methyl tert-Butyl Ether	3.20	73	179709	19.300	ug/l 96
25) Chloroform	5.21	83	97834	18.763	ug/l 99
26) Cyclohexane	5.58	56	98152	19.227	ug/l # 90
29) 1,1-Dichloropropene	5.80	75	78213	19.414	ug/l 96
30) 2-Butanone	4.70	43	258134	95.001	ug/l 97
31) 2,2-Dichloropropane	4.58	77	70051	18.826	ug/l 98
32) 1,1,1-Trichloroethane	5.49	97	81517	18.712	ug/l 98
33) Carbon Tetrachloride	5.78	117	71630	18.538	ug/l 99
34) Benzene	6.14	78	234725	19.012	ug/l 98
35) Methacrylonitrile	5.06	41	49414	18.662	ug/l 95
36) 1,2-Dichloroethane	6.20	62	75999	18.921	ug/l 99
37) Trichloroethene	7.21	130	63092	18.862	ug/l 95
38) Methylcyclohexane	7.46	83	96063	18.755	ug/l 95
39) 1,2-Dichloropropane	7.51	63	60863	18.903	ug/l 99
40) Dibromomethane	7.66	93	38931	19.062	ug/l 92

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

41) Bromodichloromethane	7.90	83	71692	18.571	ug/l	99
42) Vinyl Acetate	3.82	43	858342	97.588	ug/l	97
43) Ethyl Acetate	4.85	43	89745	18.962	ug/l #	82
44) Isopropyl Acetate	6.46	43	137559	19.049	ug/l	99
45) 1,4-Dioxane	7.75	88	30155	399.120	ug/l	92
46) Methyl methacrylate	7.77	41	72192	19.008	ug/l	90
47) n-amyl Acetate	10.90	43	119495	19.204	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	76760	18.360	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	87919	18.571	ug/l	98
50) 1,1,2-Trichloroethane	9.21	97	58355	18.745	ug/l	97
51) Ethyl methacrylate	9.18	69	90726	19.217	ug/l	92
52) 1,3-Dichloropropane	9.37	76	97868	19.027	ug/l	99
53) Dibromochloromethane	9.59	129	59247	18.502	ug/l	99
54) 1,2-Dibromoethane	9.67	107	61813	18.993	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	219628	100.022	ug/l	99
56) Bromoform	10.86	173	47119	18.448	ug/l #	98
58) 4-Methyl-2-Pentanone	8.65	43	459522	99.902	ug/l	99
59) 2-Hexanone	9.49	43	360482	99.282	ug/l	100
61) Tetrachloroethene	9.34	164	62288	19.113	ug/l	98
62) Toluene	8.79	91	251813	19.303	ug/l	99
64) Chlorobenzene	10.14	112	160808	19.341	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	56903	19.115	ug/l	99
66) Ethyl Benzene	10.25	91	266859	19.045	ug/l	97
67) m/p-Xylenes	10.36	106	205839	38.310	ug/l	96
68) o-Xylene	10.70	106	100343	19.233	ug/l	98
69) Styrene	10.71	104	166357	19.351	ug/l	99
70) Isopropylbenzene	11.02	105	269002	19.295	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.27	83	90108	19.570	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	85747m	19.757	ug/l	
73) Bromobenzene	11.26	156	72776	19.635	ug/l	97
74) n-propylbenzene	11.36	91	299546	19.048	ug/l	99
75) 2-Chlorotoluene	11.42	91	180424	19.141	ug/l	95
76) 1,3,5-Trimethylbenzene	11.51	105	221502	19.171	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	23889	17.815	ug/l	95
78) 4-Chlorotoluene	11.51	91	201257	18.885	ug/l	97
79) tert-butylbenzene	12.06	119	236256	19.054	ug/l	98
80) 1,2,4-Trimethylbenzene	11.80	105	225106	19.196	ug/l	98
81) sec-Butylbenzene	11.94	105	264562	19.050	ug/l	99
82) p-Isopropyltoluene	12.06	119	236256	19.054	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	126062	19.104	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	124672	18.883	ug/l	98
85) n-Butylbenzene	12.39	91	197896	18.663	ug/l	99
86) Hexachloroethane	12.60	117	36930	18.280	ug/l	82
87) 1,2-Dichlorobenzene	12.39	146	125486	19.242	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	17929	19.063	ug/l	99
89) 1,2,4-Trichlorobenzene	13.65	180	89782	19.156	ug/l	99
90) Hexachlorobutadiene	13.78	225	48318	18.692	ug/l	97
91) Naphthalene	13.83	128	264365	19.677	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	90323	19.388	ug/l	98

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

