

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032219\
 Data File : VX008333.D
 Acq On : 22 Mar 2019 12:13
 Operator : JC/SP
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

MMDadoda
 3/23/2019 9:33:46 AM

Quant Time: Mar 22 15:34:26 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032219W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 22 13:03:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	32369	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	173019	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.12	117	151445	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	65440	29.59	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.63%
60) 4-Bromofluorobenzene	11.13	95	74341	30.16	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.53%
63) Toluene-d8	8.71	98	206158	30.21	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.70%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	171825	98.934 ug/l	98
3) Chloromethane	1.33	50	171196	96.407 ug/l	96
4) Vinyl Chloride	1.41	62	195591	97.726 ug/l	97
5) Bromomethane	1.64	94	406622	112.074 ug/l	99
6) Chloroethane	1.71	64	124908	87.814 ug/l	97
7) Trichlorofluoromethane	1.93	101	311086	97.640 ug/l	97
8) Diethyl Ether	2.19	74	121363	98.218 ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.39	101	169286	96.074 ug/l	99
10) 1,1-Dichloroethene	2.37	96	171787	98.770 ug/l	98
11) Methyl Iodide	2.51	142	267777	101.849 ug/l	94
12) Methyl Acetate	2.78	43	185917	97.961 ug/l	97
13) Acrolein	2.29	56	151063	508.092 ug/l	97
14) Acrylonitrile	3.15	53	464915	493.616 ug/l	98
15) Acetone	2.45	58	171617	464.664 ug/l	99
16) Carbon Disulfide	2.57	76	467378	96.916 ug/l	98
17) Allyl chloride	2.73	41	255837	99.684 ug/l	99
18) Methylene Chloride	2.86	84	178397	95.283 ug/l	92
19) trans-1,2-Dichloroethene	3.17	96	179256	97.091 ug/l	98
20) Diisopropyl ether	3.86	45	528666	98.515 ug/l	94
21) 1,1-Dichloroethane	3.70	63	309101	97.529 ug/l	99
22) cis-1,2-Dichloroethene	4.60	96	208807	98.058 ug/l	97
23) tert-Butyl Alcohol	3.06	59	189915	496.691 ug/l	100
24) Methyl tert-Butyl Ether	3.20	73	551021	98.613 ug/l	98
25) Chloroform	5.21	83	327000	97.264 ug/l	97
26) Cyclohexane	5.58	56	280114	99.938 ug/l #	100
29) 1,1-Dichloropropene	5.81	75	245772	100.013 ug/l	98
30) 2-Butanone	4.68	43	691960	488.872 ug/l	97
31) 2,2-Dichloropropane	4.59	77	235298	101.700 ug/l	96
32) 1,1,1-Trichloroethane	5.50	97	288894	99.914 ug/l	99
33) Carbon Tetrachloride	5.79	117	268603	101.151 ug/l	97
34) Benzene	6.15	78	725860	99.161 ug/l	99
35) Methacrylonitrile	5.05	41	131649	99.852 ug/l	97
36) 1,2-Dichloroethane	6.20	62	261314	96.853 ug/l	99
37) Trichloroethene	7.21	130	211653	98.342 ug/l	94
38) Methylcyclohexane	7.46	83	308033	100.016 ug/l	100
39) 1,2-Dichloropropane	7.51	63	183849	98.706 ug/l	99
40) Dibromomethane	7.66	93	136920	100.228 ug/l	97

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

41) Bromodichloromethane	7.90	83	261703	100.959	ug/l	100
42) Vinyl Acetate	3.82	43	2409880	506.554	ug/l	99
43) Ethyl Acetate	4.84	43	249213	99.691	ug/l #	81
44) Isopropyl Acetate	6.45	43	402405	102.343	ug/l	98
45) 1,4-Dioxane	7.74	88	94436	1909.552	ug/l	97
46) Methyl methacrylate	7.77	41	196814	102.013	ug/l	99
47) n-amyl Acetate	10.90	43	348260	103.309	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	276936	106.706	ug/l	98
49) cis-1,3-Dichloropropene	8.43	75	305543	105.504	ug/l	100
50) 1,1,2-Trichloroethane	9.21	97	192700	98.190	ug/l	94
51) Ethyl methacrylate	9.18	69	295771	103.231	ug/l	97
52) 1,3-Dichloropropane	9.37	76	308151	97.906	ug/l	100
53) Dibromochloromethane	9.59	129	227142	102.674	ug/l	99
54) 1,2-Dibromoethane	9.67	107	214044	99.407	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	723974	502.240	ug/l	99
56) Bromoform	10.85	173	180362	103.268	ug/l	98
58) 4-Methyl-2-Pentanone	8.64	43	1265148	496.159	ug/l	97
59) 2-Hexanone	9.49	43	990521	491.073	ug/l	98
61) Tetrachloroethene	9.34	164	197123	96.694	ug/l	99
62) Toluene	8.79	91	800602	99.593	ug/l	99
64) Chlorobenzene	10.14	112	507121	97.853	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	198084	100.077	ug/l	99
66) Ethyl Benzene	10.25	91	876959	100.873	ug/l	100
67) m/p-Xylenes	10.36	106	689151	199.449	ug/l	99
68) o-Xylene	10.70	106	328606	99.000	ug/l	100
69) Styrene	10.71	104	575319	102.665	ug/l	97
70) Isopropylbenzene	11.02	105	866210	99.187	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	290246	97.465	ug/l	98
72) 1,2,3-Trichloropropane	11.30	75	233051m	93.759	ug/l	
73) Bromobenzene	11.26	156	238280	98.615	ug/l	97
74) n-propylbenzene	11.36	91	977335	100.401	ug/l	99
75) 2-Chlorotoluene	11.42	91	571275	98.270	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	747717	100.223	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	94841	111.602	ug/l	89
78) 4-Chlorotoluene	11.51	91	685149	100.142	ug/l	97
79) tert-butylbenzene	12.07	119	791804	100.897	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	741441	100.013	ug/l	99
81) sec-Butylbenzene	11.94	105	838933	98.587	ug/l	99
82) p-Isopropyltoluene	12.07	119	791804	100.897	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	419973	100.141	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	412812	98.845	ug/l	97
85) n-Butylbenzene	12.39	91	699850	103.675	ug/l	99
86) Hexachloroethane	12.60	117	139045	102.804	ug/l	90
87) 1,2-Dichlorobenzene	12.39	146	408572	98.786	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	68853	101.001	ug/l	96
89) 1,2,4-Trichlorobenzene	13.65	180	304674	104.084	ug/l	100
90) Hexachlorobutadiene	13.78	225	147235	99.917	ug/l	98
91) Naphthalene	13.83	128	916181	104.211	ug/l	99
92) 1,2,3-Trichlorobenzene	14.02	180	304110	102.766	ug/l	98

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

