

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022219\
 Data File : VX007651.D
 Acq On : 22 Feb 2019 11:23
 Operator : JC/SP
 Sample : VX0222WBS01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0222WBS01

Manual Integrations
 APPROVED

MMDadoda
 2/25/2019 9:47:22 AM

Quant Time: Feb 22 13:08:50 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	69656	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	363039	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	337932	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	136982	30.40	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.33%
60) 4-Bromofluorobenzene	11.13	95	159026	30.66	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	102.20%
63) Toluene-d8	8.71	98	451719	29.57	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	98.57%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	72778	20.632 ug/l	98
3) Chloromethane	1.33	50	80611	20.794 ug/l	100
4) Vinyl Chloride	1.41	62	85631	19.638 ug/l	99
5) Bromomethane	1.64	94	81021	20.807 ug/l	96
6) Chloroethane	1.73	64	54426	18.362 ug/l	96
7) Trichlorofluoromethane	1.93	101	132459	19.379 ug/l	100
8) Diethyl Ether	2.19	74	50682	18.562 ug/l	94
9) 1,1,2-Trichlorotrifluoroet	2.39	101	79020	20.490 ug/l	99
10) 1,1-Dichloroethene	2.38	96	74470	19.460 ug/l	93
11) Methyl Iodide	2.51	142	106984	19.452 ug/l	94
12) Methyl Acetate	2.78	43	91952	17.424 ug/l	96
13) Acrolein	2.30	56	59487	64.619 ug/l	97
14) Acrylonitrile	3.15	53	221087	90.921 ug/l	100
15) Acetone	2.45	58	65439	99.162 ug/l	98
16) Carbon Disulfide	2.57	76	188627	18.587 ug/l	100
17) Allyl chloride	2.73	41	119311	18.197 ug/l	95
18) Methylene Chloride	2.86	84	80865	18.791 ug/l	95
19) trans-1,2-Dichloroethene	3.17	96	76566	18.706 ug/l	96
20) Diisopropyl ether	3.87	45	242903	19.603 ug/l	98
21) 1,1-Dichloroethane	3.70	63	138416	19.926 ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	88959	19.530 ug/l	97
23) tert-Butyl Alcohol	3.07	59	97521	95.418 ug/l	# 99
24) Methyl tert-Butyl Ether	3.20	73	237266	17.866 ug/l	98
25) Chloroform	5.21	83	145514	19.834 ug/l	97
26) Cyclohexane	5.57	56	115427	19.816 ug/l	# 99
29) 1,1-Dichloropropene	5.80	75	101655	20.074 ug/l	99
30) 2-Butanone	4.70	43	309714	103.347 ug/l	98
31) 2,2-Dichloropropane	4.59	77	96251	23.394 ug/l	98
32) 1,1,1-Trichloroethane	5.49	97	123630	20.425 ug/l	99
33) Carbon Tetrachloride	5.78	117	107975	20.180 ug/l	97
34) Benzene	6.15	78	319658	20.023 ug/l	96
35) Methacrylonitrile	5.06	41	62693	20.120 ug/l	96
36) 1,2-Dichloroethane	6.20	62	110434	20.327 ug/l	99
37) Trichloroethene	7.21	130	93147	20.294 ug/l	98
38) Methylcyclohexane	7.46	83	123819	21.122 ug/l	100
39) 1,2-Dichloropropane	7.52	63	81569	20.542 ug/l	99
40) Dibromomethane	7.66	93	57880	20.183 ug/l	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.90	83	101383	19.921	ug/l	99
42) Vinyl Acetate	3.82	43	1057291	100.793	ug/l	100
43) Ethyl Acetate	4.85	43	116800	20.352	ug/l	96
44) Isopropyl Acetate	6.46	43	173307	19.559	ug/l	100
45) 1,4-Dioxane	7.75	88	42616	407.516	ug/l	99
46) Methyl methacrylate	7.77	41	89339	19.911	ug/l	99
47) n-amyl Acetate	10.90	43	155387	19.896	ug/l	98
48) t-1,3-Dichloropropene	9.04	75	105697	20.118	ug/l	99
49) cis-1,3-Dichloropropene	8.44	75	117790	20.133	ug/l	95
50) 1,1,2-Trichloroethane	9.21	97	87178	20.849	ug/l	94
51) Ethyl methacrylate	9.18	69	119724	19.749	ug/l	98
52) 1,3-Dichloropropane	9.37	76	138106	20.476	ug/l	100
53) Dibromochloromethane	9.58	129	88118	20.261	ug/l	100
54) 1,2-Dibromoethane	9.67	107	94612	20.663	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	320063	103.847	ug/l	100
56) Bromoform	10.85	173	63413	19.330	ug/l	98
58) 4-Methyl-2-Pentanone	8.65	43	598247	98.421	ug/l	100
59) 2-Hexanone	9.49	43	461669	99.994	ug/l	100
61) Tetrachloroethene	9.34	164	95873	19.985	ug/l	96
62) Toluene	8.79	91	357467	19.423	ug/l	100
64) Chlorobenzene	10.14	112	236072	19.738	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	85539	19.746	ug/l	99
66) Ethyl Benzene	10.25	91	381274	19.522	ug/l	99
67) m/p-Xylenes	10.36	106	304268	39.721	ug/l	98
68) o-Xylene	10.70	106	145105	19.422	ug/l	100
69) Styrene	10.71	104	234363	19.439	ug/l	99
70) Isopropylbenzene	11.02	105	390113	19.793	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	127930	19.635	ug/l	100
72) 1,2,3-Trichloropropane	11.29	75	123883m	20.795	ug/l	
73) Bromobenzene	11.26	156	106757	19.839	ug/l	99
74) n-propylbenzene	11.36	91	434352	19.847	ug/l	99
75) 2-Chlorotoluene	11.42	91	260390	19.899	ug/l	98
76) 1,3,5-Trimethylbenzene	11.51	105	320142	19.898	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	33308	19.370	ug/l	99
78) 4-Chlorotoluene	11.51	91	293822	19.672	ug/l	100
79) tert-butylbenzene	12.06	119	337168	19.735	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	326771	20.007	ug/l	98
81) sec-Butylbenzene	11.94	105	384601	20.017	ug/l	100
82) p-Isopropyltoluene	12.06	119	337168	19.735	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	187085	19.776	ug/l	97
84) 1,4-Dichlorobenzene	12.10	146	186219	19.726	ug/l	98
85) n-Butylbenzene	12.38	91	275808	19.455	ug/l	99
86) Hexachloroethane	12.60	117	53138	18.734	ug/l	92
87) 1,2-Dichlorobenzene	12.39	146	189026	19.908	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.00	75	26246	19.303	ug/l	98
89) 1,2,4-Trichlorobenzene	13.65	180	120245	19.282	ug/l	98
90) Hexachlorobutadiene	13.78	225	58241	19.989	ug/l	96
91) Naphthalene	13.83	128	375491	18.880	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	122732	19.360	ug/l	99

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

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