

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050319\
 Data File : VX009303.D
 Acq On : 03 May 2019 11:23
 Operator : JC/SP
 Sample : K2241-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 LOD-MDL-WATER-01-QT2-2019

Manual Integrations
 APPROVED

MMDadoda
 5/6/2019 9:28:19 AM

Quant Time: May 04 03:22:48 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X050119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 02 06:46:57 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	29727	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	170641	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	147390	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	74405	30.17	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.57%
60) 4-Bromofluorobenzene	11.13	95	70576	28.18	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.93%
63) Toluene-d8	8.71	98	214059	30.63	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.10%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	1436	0.909 ug/l	100
3) Chloromethane	1.32	50	2256	1.063 ug/l	95
4) Vinyl Chloride	1.40	62	2094	0.989 ug/l #	81
5) Bromomethane	1.64	94	1436	1.070 ug/l	99
6) Chloroethane	1.73	64	1509	1.086 ug/l	93
7) Trichlorofluoromethane	1.93	101	2642	1.010 ug/l	93
8) Diethyl Ether	2.19	74	1353	1.114 ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.39	101	1796	1.109 ug/l	95
10) 1,1-Dichloroethene	2.37	96	1594	0.980 ug/l #	89
11) Methyl Iodide	2.51	142	1144	0.647 ug/l	99
12) Methyl Acetate	2.77	43	3628	1.185 ug/l	95
13) Acrolein	2.29	56	2639	6.283 ug/l	99
14) Acrylonitrile	3.14	53	6653	5.006 ug/l	99
15) Acetone	2.44	58	2357	6.177 ug/l	97
16) Carbon Disulfide	2.57	76	3984	0.906 ug/l	99
17) Allyl chloride	2.73	41	4031	1.033 ug/l	96
18) Methylene Chloride	2.85	84	2229	1.134 ug/l	93
19) trans-1,2-Dichloroethene	3.16	96	1776	1.024 ug/l	91
20) Diisopropyl ether	3.85	45	7909	1.029 ug/l #	82
21) 1,1-Dichloroethane	3.70	63	3710	0.997 ug/l	95
22) cis-1,2-Dichloroethene	4.60	96	2063	0.988 ug/l	89
23) tert-Butyl Alcohol	3.04	59	2971	5.286 ug/l #	98
24) Methyl tert-Butyl Ether	3.19	73	6256	0.983 ug/l #	90
25) Chloroform	5.21	83	3497	1.030 ug/l	93
26) Cyclohexane	5.57	56	2967	0.856 ug/l #	98
29) 1,1-Dichloropropene	5.81	75	2472	0.987 ug/l	88
30) 2-Butanone	4.68	43	10173	5.188 ug/l #	75
31) 2,2-Dichloropropane	4.59	77	2788	1.010 ug/l #	82
32) 1,1,1-Trichloroethane	5.49	97	2835	1.044 ug/l #	47
33) Carbon Tetrachloride	5.79	117	2206	0.971 ug/l	98
34) Benzene	6.14	78	7896	1.023 ug/l	96
35) Methacrylonitrile	5.05	41	2281	1.112 ug/l	81
36) 1,2-Dichloroethane	6.20	62	3178	1.135 ug/l	96
37) Trichloroethene	7.21	130	1812	0.975 ug/l	92
38) Methylcyclohexane	7.46	83	2769	0.895 ug/l	88
39) 1,2-Dichloropropane	7.51	63	2431	1.106 ug/l	91
40) Dibromomethane	7.66	93	1412	1.132 ug/l	95

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

41) Bromodichloromethane	7.90	83	2466	0.968	ug/l	94
42) Vinyl Acetate	3.82	43	29043	4.488	ug/l	98
43) Ethyl Acetate	4.84	43	2927	0.826	ug/l	95
44) Isopropyl Acetate	6.45	43	4830	0.841	ug/l	93
45) 1,4-Dioxane	7.74	88	966	17.141	ug/l #	70
46) Methyl methacrylate	7.77	41	2324	0.811	ug/l	84
47) n-amyl Acetate	10.90	43	4271	0.826	ug/l	100
48) t-1,3-Dichloropropene	9.04	75	2377	0.799	ug/l	99
49) cis-1,3-Dichloropropene	8.43	75	2749	0.842	ug/l	96
50) 1,1,2-Trichloroethane	9.21	97	2101	1.099	ug/l	93
51) Ethyl methacrylate	9.18	69	2938	0.832	ug/l	98
52) 1,3-Dichloropropane	9.37	76	3340	0.985	ug/l	96
53) Dibromochloromethane	9.58	129	1642	0.863	ug/l	96
54) 1,2-Dibromoethane	9.67	107	1935	0.987	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	8382	4.453	ug/l	99
56) Bromoform	10.85	173	1150	0.787	ug/l #	88
58) 4-Methyl-2-Pentanone	8.64	43	17646	4.869	ug/l	98
59) 2-Hexanone	9.49	43	13273	4.669	ug/l	99
61) Tetrachloroethene	9.34	164	1769	1.089	ug/l	96
62) Toluene	8.78	91	8164	1.037	ug/l	100
64) Chlorobenzene	10.13	112	5000	1.055	ug/l	93
65) 1,1,1,2-Tetrachloroethane	10.22	131	1501	0.865	ug/l	78
66) Ethyl Benzene	10.25	91	8412	0.959	ug/l	96
67) m/p-Xylenes	10.36	106	6041	1.886	ug/l	94
68) o-Xylene	10.70	106	2871	0.911	ug/l	96
69) Styrene	10.71	104	4665	0.844	ug/l	97
70) Isopropylbenzene	11.02	105	8028	0.948	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.27	83	3116	1.004	ug/l	96
72) 1,2,3-Trichloropropane	11.29	75	3096m	1.158	ug/l	
73) Bromobenzene	11.26	156	2012	0.961	ug/l	96
74) n-propylbenzene	11.36	91	8601	0.876	ug/l	99
75) 2-Chlorotoluene	11.42	91	5706	0.969	ug/l	99
76) 1,3,5-Trimethylbenzene	11.51	105	6496	0.905	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	847	0.785	ug/l #	83
78) 4-Chlorotoluene	11.51	91	5605	0.838	ug/l	94
79) tert-butylbenzene	11.77	119	6033	0.870	ug/l	92
80) 1,2,4-Trimethylbenzene	11.80	105	6430	0.894	ug/l	98
81) sec-Butylbenzene	11.94	105	7270	0.882	ug/l	98
82) p-Isopropyltoluene	12.06	119	6197	0.827	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	3319	0.888	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	3292	0.884	ug/l	92
85) n-Butylbenzene	12.38	91	5134	0.748	ug/l	96
86) Hexachloroethane	12.59	117	1045	0.819	ug/l	97
87) 1,2-Dichlorobenzene	12.39	146	3508	0.932	ug/l	100
88) 1,2-Dibromo-3-Chloropropan	13.00	75	719	0.997	ug/l	88
89) 1,2,4-Trichlorobenzene	13.65	180	2074m	0.773	ug/l	
90) Hexachlorobutadiene	13.78	225	1241	0.926	ug/l	97
91) Naphthalene	13.83	128	6358	0.724	ug/l #	96
92) 1,2,3-Trichlorobenzene	14.02	180	2420	0.888	ug/l	99

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

