

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072419\
 Data File : VX011057.D
 Acq On : 24 Jul 2019 13:19
 Operator : JC/SP
 Sample : K3591-09 2.5PPB
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Manual Integrations
 APPROVED

MMDadoda
 7/25/2019 3:54:45 PM

Quant Time: Jul 25 03:51:00 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X071919W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 03:27:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	35579	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	200200	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	175295	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.06	65	71320	29.57	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.57%
60) 4-Bromofluorobenzene	11.13	95	82509	28.60	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	95.33%
63) Toluene-d8	8.71	98	232659	30.20	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.67%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.20	85	4600	1.956 ug/l	99
3) Chloromethane	1.32	50	4948	2.392 ug/l	97
4) Vinyl Chloride	1.41	62	4638	2.150 ug/l	88
5) Bromomethane	1.64	94	4079	3.435 ug/l	99
6) Chloroethane	1.73	64	3845m	3.013 ug/l	
7) Trichlorofluoromethane	1.93	101	9063	2.530 ug/l	97
8) Diethyl Ether	2.18	74	3214	2.732 ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.38	101	5357	2.706 ug/l	96
10) 1,1-Dichloroethene	2.37	96	5022	2.524 ug/l	93
11) Methyl Iodide	2.51	142	4927	1.844 ug/l	93
12) Methyl Acetate	2.78	43	5659	2.025 ug/l	92
13) Acrolein	2.29	56	4756	14.193 ug/l	95
14) Acrylonitrile	3.14	53	13810	12.626 ug/l	98
15) Acetone	2.44	58	4737	15.553 ug/l	97
16) Carbon Disulfide	2.57	76	11156	2.182 ug/l	97
17) Allyl chloride	2.73	41	6753	2.344 ug/l	97
18) Methylene Chloride	2.85	84	5941	2.681 ug/l	96
19) trans-1,2-Dichloroethene	3.16	96	5001	2.379 ug/l	98
20) Diisopropyl ether	3.85	45	15543	2.556 ug/l	99
21) 1,1-Dichloroethane	3.70	63	8789	2.511 ug/l	98
22) cis-1,2-Dichloroethene	4.60	96	5723	2.367 ug/l	86
23) tert-Butyl Alcohol	3.04	59	8387	14.686 ug/l	# 99
24) Methyl tert-Butyl Ether	3.19	73	15848	2.481 ug/l	93
25) Chloroform	5.21	83	10244	2.673 ug/l	94
26) Cyclohexane	5.58	56	7933	2.477 ug/l	# 91
29) 1,1-Dichloropropene	5.80	75	6895	2.449 ug/l	99
30) 2-Butanone	4.67	43	18743	12.333 ug/l	# 98
31) 2,2-Dichloropropane	4.59	77	7202	2.931 ug/l	97
32) 1,1,1-Trichloroethane	5.49	97	7432	2.189 ug/l	# 85
33) Carbon Tetrachloride	5.78	117	6587	2.231 ug/l	93
34) Benzene	6.14	78	21033	2.490 ug/l	96
35) Methacrylonitrile	5.03	41	3425	2.165 ug/l	82
36) 1,2-Dichloroethane	6.20	62	7507	2.486 ug/l	98
37) Trichloroethene	7.21	130	6205	2.510 ug/l	89
38) Methylcyclohexane	7.46	83	8450	2.378 ug/l	97
39) 1,2-Dichloropropane	7.51	63	5454	2.584 ug/l	98
40) Dibromomethane	7.65	93	4031	2.596 ug/l	90

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	6166	2.182	ug/l	98
42) Vinyl Acetate	3.81	43	57843	11.552	ug/l	99
43) Ethyl Acetate	4.83	43	7776m	2.666	ug/l	
44) Isopropyl Acetate	6.45	43	10672	2.246	ug/l	95
45) 1,4-Dioxane	7.74	88	3113	50.336	ug/l	96
46) Methyl methacrylate	7.77	41	4799	2.081	ug/l	93
47) n-amyl Acetate	10.90	43	8070	1.894	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	5918	1.987	ug/l	92
49) cis-1,3-Dichloropropene	8.43	75	6807	2.094	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	5808	2.556	ug/l	96
51) Ethyl methacrylate	9.17	69	7452	2.121	ug/l	95
52) 1,3-Dichloropropane	9.37	76	8946	2.450	ug/l	98
53) Dibromochloromethane	9.58	129	4671	1.903	ug/l	100
54) 1,2-Dibromoethane	9.67	107	5461	2.211	ug/l	100
55) 2-Chloroethyl vinyl ether	8.31	63	19439	13.062	ug/l	99
56) Bromoform	10.86	173	3541	1.937	ug/l	99
58) 4-Methyl-2-Pentanone	8.64	43	35539	12.005	ug/l	97
59) 2-Hexanone	9.49	43	26305	11.612	ug/l	99
61) Tetrachloroethene	9.34	164	6134	2.650	ug/l	96
62) Toluene	8.78	91	22582	2.425	ug/l	99
64) Chlorobenzene	10.13	112	14720	2.467	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.22	131	4681	2.159	ug/l	94
66) Ethyl Benzene	10.25	91	24989	2.384	ug/l	99
67) m/p-Xylenes	10.36	106	19012	4.740	ug/l	97
68) o-Xylene	10.69	106	9700	2.468	ug/l	96
69) Styrene	10.71	104	14831	2.245	ug/l	99
70) Isopropylbenzene	11.02	105	24670	2.357	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	7995	2.369	ug/l	96
72) 1,2,3-Trichloropropane	11.29	75	7425m	2.636	ug/l	
73) Bromobenzene	11.25	156	6721	2.380	ug/l	96
74) n-propylbenzene	11.36	91	27199	2.309	ug/l	99
75) 2-Chlorotoluene	11.42	91	17217	2.454	ug/l	100
76) 1,3,5-Trimethylbenzene	11.51	105	20320	2.294	ug/l	99
77) t-1,4-Dichloro-2-butene	11.07	75	1763	1.897	ug/l	87
78) 4-Chlorotoluene	11.51	91	18615	2.311	ug/l	98
79) tert-butylbenzene	11.77	119	20234	2.355	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	20882	2.341	ug/l	96
81) sec-Butylbenzene	11.94	105	23423	2.313	ug/l	99
82) p-Isopropyltoluene	12.06	119	21332	2.270	ug/l	97
83) 1,3-Dichlorobenzene	12.02	146	11995	2.406	ug/l	97
84) 1,4-Dichlorobenzene	12.09	146	11985	2.419	ug/l	97
85) n-Butylbenzene	12.38	91	18079	2.259	ug/l	99
86) Hexachloroethane	12.59	117	2886	1.947	ug/l	98
87) 1,2-Dichlorobenzene	12.39	146	11789	2.416	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	13.00	75	1576	2.121	ug/l	83
89) 1,2,4-Trichlorobenzene	13.65	180	7673	2.279	ug/l	96
90) Hexachlorobutadiene	13.78	225	3934	2.417	ug/l	97
91) Naphthalene	13.83	128	20744	2.020	ug/l	98
92) 1,2,3-Trichlorobenzene	14.02	180	7750	2.297	ug/l	96

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

