

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX031119\
 Data File : VX007962.D
 Acq On : 11 Mar 2019 11:05
 Operator : JC/SP
 Sample : K1560-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT1-2019

Manual Integrations
 APPROVED

MMDadoda
 3/12/2019 1:09:54 PM

Quant Time: Mar 12 08:36:21 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	54264	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	289754	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	256396	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	105431	29.56	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.53%
60) 4-Bromofluorobenzene	11.13	95	122322	29.89	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.63%
63) Toluene-d8	8.71	98	350950	29.91	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.70%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	7912	2.456 ug/l	94
3) Chloromethane	1.33	50	9880	2.758 ug/l	94
4) Vinyl Chloride	1.41	62	10101	2.847 ug/l	97
5) Bromomethane	1.64	94	6006	3.395 ug/l	98
6) Chloroethane	1.73	64	6246	3.014 ug/l	91
7) Trichlorofluoromethane	1.93	101	13396	3.032 ug/l	91
8) Diethyl Ether	2.19	74	5527	2.429 ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.39	101	8529	2.567 ug/l	99
10) 1,1-Dichloroethene	2.38	96	7741	2.458 ug/l	95
11) Methyl Iodide	2.51	142	10974	2.226 ug/l	94
12) Methyl Acetate	2.78	43	14193	2.850 ug/l	96
13) Acrolein	2.29	56	9587	16.409 ug/l	96
14) Acrylonitrile	3.15	53	26209	12.398 ug/l	98
15) Acetone	2.45	58	9518	12.471 ug/l	95
16) Carbon Disulfide	2.57	76	22790	2.307 ug/l	99
17) Allyl chloride	2.73	41	15129	2.344 ug/l	89
18) Methylene Chloride	2.86	84	9195	2.563 ug/l	96
19) trans-1,2-Dichloroethene	3.17	96	8337	2.502 ug/l	89
20) Diisopropyl ether	3.87	45	28768	2.436 ug/l	96
21) 1,1-Dichloroethane	3.70	63	16015	2.493 ug/l	97
22) cis-1,2-Dichloroethene	4.59	96	9696	2.523 ug/l	90
23) tert-Butyl Alcohol	3.06	59	11299	13.249 ug/l	# 100
24) Methyl tert-Butyl Ether	3.20	73	27068	2.500 ug/l	95
25) Chloroform	5.21	83	15198	2.507 ug/l	99
26) Cyclohexane	5.57	56	13651	2.300 ug/l	# 96
29) 1,1-Dichloropropene	5.80	75	11047	2.405 ug/l	88
30) 2-Butanone	4.70	43	37690	12.163 ug/l	97
31) 2,2-Dichloropropane	4.59	77	10908	2.571 ug/l	98
32) 1,1,1-Trichloroethane	5.49	97	12324	2.481 ug/l	# 74
33) Carbon Tetrachloride	5.77	117	10658	2.419 ug/l	91
34) Benzene	6.14	78	34313	2.437 ug/l	99
35) Methacrylonitrile	5.05	41	7453	2.468 ug/l	90
36) 1,2-Dichloroethane	6.20	62	12036	2.628 ug/l	99
37) Trichloroethene	7.21	130	9837	2.579 ug/l	91
38) Methylcyclohexane	7.46	83	13762	2.356 ug/l	94
39) 1,2-Dichloropropane	7.51	63	9286	2.529 ug/l	95
40) Dibromomethane	7.66	93	5704	2.449 ug/l	88

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

41) Bromodichloromethane	7.90	83	10589	2.405	ug/l	99
42) Vinyl Acetate	3.82	43	117292	11.694	ug/l	96
43) Ethyl Acetate	4.85	43	13539	2.508	ug/l #	79
44) Isopropyl Acetate	6.45	43	19057	2.314	ug/l	98
45) 1,4-Dioxane	7.75	88	4019	46.645	ug/l #	84
46) Methyl methacrylate	7.77	41	9774	2.257	ug/l	89
47) n-amyl Acetate	10.90	43	15054	2.122	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	10331	2.167	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	11792	2.184	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	8858	2.495	ug/l	91
51) Ethyl methacrylate	9.18	69	12079	2.244	ug/l	94
52) 1,3-Dichloropropane	9.37	76	14539	2.479	ug/l	99
53) Dibromochloromethane	9.58	129	8515	2.332	ug/l	98
54) 1,2-Dibromoethane	9.67	107	9076	2.445	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	29256	11.683	ug/l	98
56) Bromoform	10.86	173	6629	2.276	ug/l #	98
58) 4-Methyl-2-Pentanone	8.65	43	60540	11.468	ug/l	98
59) 2-Hexanone	9.49	43	48241	11.577	ug/l	99
61) Tetrachloroethene	9.34	164	10328	2.761	ug/l	94
62) Toluene	8.78	91	37762	2.522	ug/l	99
64) Chlorobenzene	10.13	112	24114	2.527	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	8095	2.369	ug/l	95
66) Ethyl Benzene	10.25	91	37693	2.344	ug/l	99
67) m/p-Xylenes	10.36	106	29146	4.727	ug/l	96
68) o-Xylene	10.70	106	14017	2.341	ug/l	96
69) Styrene	10.71	104	22374	2.268	ug/l	98
70) Isopropylbenzene	11.02	105	38103	2.381	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.27	83	13165	2.491	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	12248m	2.459	ug/l	
73) Bromobenzene	11.26	156	10562	2.483	ug/l	96
74) n-propylbenzene	11.36	91	41880	2.321	ug/l	99
75) 2-Chlorotoluene	11.42	91	26233	2.425	ug/l	95
76) 1,3,5-Trimethylbenzene	11.51	105	31127	2.347	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	3046	1.979	ug/l	89
78) 4-Chlorotoluene	11.51	91	28953	2.367	ug/l	97
79) tert-butylbenzene	12.06	119	31906	2.242	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	31300	2.326	ug/l	96
81) sec-Butylbenzene	11.94	105	37304	2.341	ug/l	99
82) p-Isopropyltoluene	12.06	119	31906	2.242	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	18356	2.424	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	18196	2.401	ug/l	99
85) n-Butylbenzene	12.39	91	25813	2.121	ug/l	98
86) Hexachloroethane	12.60	117	5163	2.227	ug/l	77
87) 1,2-Dichlorobenzene	12.39	146	18425	2.462	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	2502	2.318	ug/l	92
89) 1,2,4-Trichlorobenzene	13.65	180	12035	2.237	ug/l	98
90) Hexachlorobutadiene	13.78	225	7213	2.431	ug/l	98
91) Naphthalene	13.83	128	31699	2.056	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	12118	2.267	ug/l	97

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

