

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031220\
 Data File : VX015237.D
 Acq On : 12 Mar 2020 16:29
 Operator : JC/SP
 Sample : L1161-08 5PPB L00
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT1-2020

Manual Integrations
 APPROVED

MMDadoda
 3/16/2020 11:43:47 AM

Quant Time: Mar 13 04:12:11 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X031220W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 12 14:12:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.00	128	45250	30.00	ug/l	-0.01
28) 1,4-Difluorobenzene	6.85	114	244127	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	224503	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	91165	29.87	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	99.57%
60) 4-Bromofluorobenzene	11.13	95	103531	28.97	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.57%
63) Toluene-d8	8.71	98	296358	30.82	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.73%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	11743	5.160 ug/l	97
3) Chloromethane	1.32	50	17028	5.183 ug/l	100
4) Vinyl Chloride	1.40	62	17946	5.368 ug/l	94
5) Bromomethane	1.64	94	12469	5.724 ug/l	93
6) Chloroethane	1.72	64	11063	5.268 ug/l	98
7) Trichlorofluoromethane	1.92	101	22115	5.188 ug/l	94
8) Diethyl Ether	2.18	74	9989	5.287 ug/l	95
9) 1,1,2-Trichlorotrifluoroet	2.37	101	14228	5.443 ug/l	98
10) 1,1-Dichloroethene	2.37	96	13404	5.086 ug/l	94
11) Methyl Iodide	2.50	142	9461	3.490 ug/l	98
12) Methyl Acetate	2.76	43	17985m	5.532 ug/l	
13) Acrolein	2.28	56	14526	28.294 ug/l	96
14) Acrylonitrile	3.13	53	38638	25.612 ug/l	99
15) Acetone	2.44	58	10489	23.696 ug/l	94
16) Carbon Disulfide	2.56	76	38570	5.226 ug/l	100
17) Allyl chloride	2.72	41	23901	4.888 ug/l	96
18) Methylene Chloride	2.85	84	15673	5.262 ug/l	98
19) trans-1,2-Dichloroethene	3.15	96	14973	5.267 ug/l	96
20) Diisopropyl ether	3.84	45	51104	5.262 ug/l #	81
21) 1,1-Dichloroethane	3.69	63	27040	5.254 ug/l	99
22) cis-1,2-Dichloroethene	4.59	96	17208	5.355 ug/l	95
23) tert-Butyl Alcohol	3.03	59	18937	32.107 ug/l #	98
24) Methyl tert-Butyl Ether	3.18	73	42577	5.000 ug/l	99
25) Chloroform	5.20	83	24142	4.932 ug/l	97
26) Cyclohexane	5.57	56	22259	4.654 ug/l #	99
29) 1,1-Dichloropropene	5.79	75	18363	4.902 ug/l	99
30) 2-Butanone	4.66	43	52012	25.926 ug/l	99
31) 2,2-Dichloropropane	4.58	77	19978	5.191 ug/l	93
32) 1,1,1-Trichloroethane	5.48	97	20120	4.935 ug/l #	87
33) Carbon Tetrachloride	5.78	117	17571m	5.036 ug/l	
34) Benzene	6.14	78	57231	5.042 ug/l	97
35) Methacrylonitrile	5.03	41	9943	4.584 ug/l	90
36) 1,2-Dichloroethane	6.18	62	20903m	5.520 ug/l	
37) Trichloroethene	7.21	130	15503	4.938 ug/l	87
38) Methylcyclohexane	7.46	83	21963	4.825 ug/l	98
39) 1,2-Dichloropropane	7.51	63	15293	5.215 ug/l	99
40) Dibromomethane	7.65	93	10141	5.441 ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.89	83	17921	4.861	ug/l	93
42) Vinyl Acetate	3.80	43	202280	25.568	ug/l	99
43) Ethyl Acetate	4.83	43	20421m	5.365	ug/l	
44) Isopropyl Acetate	6.43	43	31767	4.934	ug/l	99
45) 1,4-Dioxane	7.75	88	6835	108.089	ug/l	99
46) Methyl methacrylate	7.76	41	14187	4.469	ug/l	96
47) n-amyl Acetate	10.89	43	24020	4.158	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	19315	4.819	ug/l	100
49) cis-1,3-Dichloropropene	8.43	75	20848	4.580	ug/l	99
50) 1,1,2-Trichloroethane	9.21	97	13645	4.951	ug/l	97
51) Ethyl methacrylate	9.17	69	19585	4.554	ug/l	99
52) 1,3-Dichloropropane	9.37	76	23784	5.099	ug/l	95
53) Dibromochloromethane	9.57	129	13549	4.616	ug/l	95
54) 1,2-Dibromoethane	9.67	107	14551	5.118	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	52035	24.160	ug/l	99
56) Bromoform	10.85	173	9889	4.297	ug/l	97
58) 4-Methyl-2-Pentanone	8.64	43	95298	24.934	ug/l	99
59) 2-Hexanone	9.48	43	68582	23.741	ug/l	99
61) Tetrachloroethene	9.33	164	16605	5.313	ug/l	95
62) Toluene	8.78	91	60649	5.105	ug/l	99
64) Chlorobenzene	10.14	112	38360	5.053	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	13601	4.864	ug/l	95
66) Ethyl Benzene	10.25	91	63565	4.803	ug/l	96
67) m/p-Xylenes	10.35	106	48372	9.522	ug/l	100
68) o-Xylene	10.70	106	22996	4.721	ug/l	97
69) Styrene	10.71	104	38904	4.590	ug/l	98
70) Isopropylbenzene	11.01	105	62341	4.809	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.26	83	20262	4.815	ug/l	94
72) 1,2,3-Trichloropropane	11.29	75	22157	6.432	ug/l	84
73) Bromobenzene	11.25	156	17679	5.000	ug/l	97
74) n-propylbenzene	11.35	91	70228	4.585	ug/l	99
75) 2-Chlorotoluene	11.42	91	42391	4.741	ug/l	97
76) 1,3,5-Trimethylbenzene	11.50	105	50669	4.579	ug/l	97
77) t-1,4-Dichloro-2-butene	11.07	75	5324	3.691	ug/l	94
78) 4-Chlorotoluene	11.51	91	47733	4.637	ug/l	100
79) tert-butylbenzene	11.76	119	48890	4.712	ug/l	100
80) 1,2,4-Trimethylbenzene	11.80	105	50657	4.630	ug/l	100
81) sec-Butylbenzene	11.94	105	58871	4.572	ug/l	99
82) p-Isopropyltoluene	12.06	119	53195	4.492	ug/l	98
83) 1,3-Dichlorobenzene	12.02	146	29849	4.778	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	30184	4.831	ug/l	97
85) n-Butylbenzene	12.39	91	45755	4.409	ug/l	99
86) Hexachloroethane	12.59	117	9527	4.596	ug/l	95
87) 1,2-Dichlorobenzene	12.39	146	29876	4.905	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	4210	4.859	ug/l	97
89) 1,2,4-Trichlorobenzene	13.64	180	20176	4.481	ug/l	98
90) Hexachlorobutadiene	13.78	225	11529	4.977	ug/l	97
91) Naphthalene	13.83	128	53406	4.282	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	20219	4.462	ug/l	97

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

