

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX043020\
 Data File : VX015998.D
 Acq On : 30 Apr 2020 16:22
 Operator : JC/SP
 Sample : L2182-08 5.0PPB LOO
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT2-2020

Manual Integrations
 APPROVED

MMDadoda
 5/4/2020 3:10:28 PM

Quant Time: May 01 08:44:00 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X043020W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 30 12:42:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.99	128	50410	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	282178	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	254331	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	119664	30.89	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.97%
60) 4-Bromofluorobenzene	11.12	95	125121	29.34	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	97.80%
63) Toluene-d8	8.70	98	333984	30.61	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.03%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	11837	3.409	ug/l 100
3) Chloromethane	1.31	50	15370	4.518	ug/l 96
4) Vinyl Chloride	1.39	62	18012	4.660	ug/l 95
5) Bromomethane	1.62	94	12568	5.305	ug/l 94
6) Chloroethane	1.71	64	12085	4.769	ug/l 99
7) Trichlorofluoromethane	1.92	101	26030	4.702	ug/l 100
8) Diethyl Ether	2.17	74	11034	4.993	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	13948	4.879	ug/l 98
10) 1,1-Dichloroethene	2.36	96	13233	4.588	ug/l 86
11) Methyl Iodide	2.49	142	16462	4.180	ug/l 98
12) Methyl Acetate	2.75	43	22623	4.492	ug/l 98
13) Acrolein	2.27	56	9921	24.573	ug/l 99
14) Acrylonitrile	3.12	53	45906	24.677	ug/l 99
15) Acetone	2.42	58	12863	26.127	ug/l 93
16) Carbon Disulfide	2.55	76	43197	4.923	ug/l 98
17) Allyl chloride	2.71	41	25806	4.823	ug/l 93
18) Methylene Chloride	2.84	84	16103	4.983	ug/l 98
19) trans-1,2-Dichloroethene	3.14	96	15259	4.837	ug/l 94
20) Diisopropyl ether	3.82	45	49118	4.761	ug/l # 84
21) 1,1-Dichloroethane	3.67	63	27995	4.866	ug/l 98
22) cis-1,2-Dichloroethene	4.57	96	17645	4.928	ug/l 95
23) tert-Butyl Alcohol	3.01	59	23206	25.483	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	50455	4.871	ug/l 99
25) Chloroform	5.18	83	28029	4.797	ug/l 94
26) Cyclohexane	5.55	56	24727	4.700	ug/l # 99
29) 1,1-Dichloropropene	5.77	75	21289	4.797	ug/l 99
30) 2-Butanone	4.64	43	66087	24.991	ug/l 100
31) 2,2-Dichloropropane	4.56	77	25339	4.744	ug/l 100
32) 1,1,1-Trichloroethane	5.46	97	25503	4.737	ug/l 98
33) Carbon Tetrachloride	5.76	117	22549	4.704	ug/l 97
34) Benzene	6.12	78	61577	4.750	ug/l 99
35) Methacrylonitrile	5.01	41	13148	4.682	ug/l 96
36) 1,2-Dichloroethane	6.17	62	24500	4.949	ug/l 100
37) Trichloroethene	7.20	130	22871	4.960	ug/l 98
38) Methylcyclohexane	7.45	83	25386	4.681	ug/l 98
39) 1,2-Dichloropropane	7.49	63	15289	4.595	ug/l 96
40) Dibromomethane	7.64	93	10977	4.751	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	21451	4.503	ug/l	95
42) Vinyl Acetate	3.79	43	209410	23.936	ug/l	100
43) Ethyl Acetate	4.80	43	23977	4.596	ug/l	97
44) Isopropyl Acetate	6.42	43	42072	4.970	ug/l	99
45) 1,4-Dioxane	7.72	88	9014	100.811	ug/l	99
46) Methyl methacrylate	7.75	41	18035	4.494	ug/l	90
47) n-amyl Acetate	10.88	43	33729	4.557	ug/l	99
48) t-1,3-Dichloropropene	9.02	75	25150	4.547	ug/l	99
49) cis-1,3-Dichloropropene	8.42	75	26458	4.630	ug/l	98
50) 1,1,2-Trichloroethane	9.20	97	15693	4.820	ug/l	99
51) Ethyl methacrylate	9.16	69	23865	4.439	ug/l	97
52) 1,3-Dichloropropane	9.35	76	26699	4.743	ug/l	97
53) Dibromochloromethane	9.57	129	16209	4.376	ug/l	99
54) 1,2-Dibromoethane	9.65	107	16514	4.615	ug/l	100
55) 2-Chloroethyl vinyl ether	8.29	63	66293	22.664	ug/l	100
56) Bromoform	10.84	173	11870	4.253	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	124347	24.793	ug/l	100
59) 2-Hexanone	9.48	43	95389	24.622	ug/l	99
61) Tetrachloroethene	9.32	164	25019	4.973	ug/l	98
62) Toluene	8.77	91	65861	4.847	ug/l	99
64) Chlorobenzene	10.12	112	41613	4.810	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.21	131	15623	4.757	ug/l	99
66) Ethyl Benzene	10.24	91	73119	4.726	ug/l	96
67) m/p-Xylenes	10.34	106	55590	9.431	ug/l	98
68) o-Xylene	10.68	106	26763	4.709	ug/l	100
69) Styrene	10.70	104	43033	4.424	ug/l	98
70) Isopropylbenzene	11.01	105	71871	4.683	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.26	83	11684	4.096	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	22668m	4.906	ug/l	
73) Bromobenzene	11.24	156	18426	4.765	ug/l	98
74) n-propylbenzene	11.34	91	81878	4.594	ug/l	99
75) 2-Chlorotoluene	11.40	91	49657	4.741	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	59946	4.602	ug/l	99
77) t-1,4-Dichloro-2-butene	11.06	75	8460	4.258	ug/l	96
78) 4-Chlorotoluene	11.49	91	57280	4.620	ug/l	98
79) tert-butylbenzene	11.76	119	51921	4.667	ug/l	97
80) 1,2,4-Trimethylbenzene	11.79	105	59536	4.575	ug/l	100
81) sec-Butylbenzene	11.93	105	69008	4.599	ug/l	99
82) p-Isopropyltoluene	12.05	119	61248	4.405	ug/l	98
83) 1,3-Dichlorobenzene	12.01	146	32267	4.628	ug/l	99
84) 1,4-Dichlorobenzene	12.08	146	32475	4.688	ug/l	99
85) n-Butylbenzene	12.37	91	54399	4.283	ug/l	99
86) Hexachloroethane	12.58	117	10314	4.214	ug/l	98
87) 1,2-Dichlorobenzene	12.38	146	31109	4.614	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	5822	4.877	ug/l	93
89) 1,2,4-Trichlorobenzene	13.63	180	22140	4.458	ug/l	100
90) Hexachlorobutadiene	13.77	225	9856	4.617	ug/l	100
91) Naphthalene	13.82	128	71182	4.502	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	21863	4.582	ug/l	97

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

