

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX043020\
 Data File : VX015997.D
 Acq On : 30 Apr 2020 16:00
 Operator : JC/SP
 Sample : L2182-07 2.5PPB MDL
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT2-2020DL

Manual Integrations
 APPROVED

MMDadoda
 5/4/2020 3:10:26 PM

Quant Time: May 01 08:42:01 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	48993	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	279198	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	250316	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.03	65	118159	31.38	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	104.60%
60) 4-Bromofluorobenzene	11.12	95	121784	29.01	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.70%
63) Toluene-d8	8.70	98	328418	30.58	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.93%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	5843	1.731 ug/l	97
3) Chloromethane	1.31	50	7447	2.252 ug/l	100
4) Vinyl Chloride	1.39	62	9034	2.405 ug/l	96
5) Bromomethane	1.63	94	6990	3.036 ug/l	93
6) Chloroethane	1.72	64	6189	2.513 ug/l	99
7) Trichlorofluoromethane	1.92	101	12890	2.396 ug/l	94
8) Diethyl Ether	2.17	74	5390	2.510 ug/l	96
9) 1,1,2-Trichlorotrifluoroet	2.37	101	7031	2.530 ug/l	97
10) 1,1-Dichloroethene	2.36	96	6781	2.419 ug/l	94
11) Methyl Iodide	2.49	142	8671	2.266 ug/l	95
12) Methyl Acetate	2.75	43	10794	2.205 ug/l	91
13) Acrolein	2.28	56	5251	13.382 ug/l	96
14) Acrylonitrile	3.12	53	22085	12.215 ug/l	98
15) Acetone	2.42	58	6713	14.030 ug/l	88
16) Carbon Disulfide	2.55	76	23290	2.731 ug/l	95
17) Allyl chloride	2.71	41	12866	2.474 ug/l	94
18) Methylene Chloride	2.84	84	8338	2.655 ug/l	94
19) trans-1,2-Dichloroethene	3.14	96	8067	2.631 ug/l	97
20) Diisopropyl ether	3.82	45	24352	2.429 ug/l	89
21) 1,1-Dichloroethane	3.67	63	13996	2.503 ug/l	98
22) cis-1,2-Dichloroethene	4.57	96	8908	2.560 ug/l	95
23) tert-Butyl Alcohol	3.01	59	11335	12.807 ug/l #	100
24) Methyl tert-Butyl Ether	3.17	73	24814	2.465 ug/l	99
25) Chloroform	5.18	83	13990	2.464 ug/l	94
26) Cyclohexane	5.56	56	12856	2.514 ug/l #	98
29) 1,1-Dichloropropene	5.78	75	10711	2.439 ug/l	87
30) 2-Butanone	4.64	43	31620	12.085 ug/l	98
31) 2,2-Dichloropropane	4.56	77	13080	2.475 ug/l	99
32) 1,1,1-Trichloroethane	5.46	97	13042	2.448 ug/l	99
33) Carbon Tetrachloride	5.76	117	11742	2.476 ug/l	89
34) Benzene	6.12	78	30761	2.398 ug/l	99
35) Methacrylonitrile	5.01	41	6277	2.259 ug/l	98
36) 1,2-Dichloroethane	6.17	62	12247	2.500 ug/l	100
37) Trichloroethene	7.20	130	11399	2.498 ug/l	97
38) Methylcyclohexane	7.45	83	12634	2.354 ug/l	96
39) 1,2-Dichloropropane	7.49	63	7994	2.428 ug/l	91
40) Dibromomethane	7.64	93	5502	2.407 ug/l	94

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

41) Bromodichloromethane	7.88	83	10986	2.331	ug/l	93
42) Vinyl Acetate	3.79	43	101369	11.710	ug/l	100
43) Ethyl Acetate	4.80	43	12054	2.335	ug/l #	90
44) Isopropyl Acetate	6.42	43	19818	2.366	ug/l	99
45) 1,4-Dioxane	7.72	88	4317	48.796	ug/l	98
46) Methyl methacrylate	7.75	41	8895	2.240	ug/l	96
47) n-amyl Acetate	10.88	43	16101	2.198	ug/l	97
48) t-1,3-Dichloropropene	9.02	75	12683	2.317	ug/l	98
49) cis-1,3-Dichloropropene	8.42	75	13025	2.303	ug/l	97
50) 1,1,2-Trichloroethane	9.20	97	7716	2.395	ug/l	94
51) Ethyl methacrylate	9.16	69	11490	2.160	ug/l	96
52) 1,3-Dichloropropane	9.35	76	13429	2.411	ug/l	97
53) Dibromochloromethane	9.57	129	7784	2.124	ug/l	98
54) 1,2-Dibromoethane	9.65	107	8310	2.347	ug/l	95
55) 2-Chloroethyl vinyl ether	8.29	63	32925	11.376	ug/l	100
56) Bromoform	10.84	173	5392	1.952	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	60504	12.257	ug/l	100
59) 2-Hexanone	9.48	43	46205	12.118	ug/l	98
61) Tetrachloroethene	9.32	164	12420	2.508	ug/l	97
62) Toluene	8.77	91	32603	2.438	ug/l	98
64) Chlorobenzene	10.12	112	20986	2.465	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	7696	2.381	ug/l	99
66) Ethyl Benzene	10.24	91	36085	2.370	ug/l	99
67) m/p-Xylenes	10.34	106	27016	4.657	ug/l	99
68) o-Xylene	10.68	106	13634	2.437	ug/l	94
69) Styrene	10.70	104	20933	2.186	ug/l	98
70) Isopropylbenzene	11.01	105	34800	2.304	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.26	83	5583	1.988	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	11126m	2.447	ug/l	
73) Bromobenzene	11.24	156	8769	2.304	ug/l	96
74) n-propylbenzene	11.34	91	41054	2.340	ug/l	98
75) 2-Chlorotoluene	11.40	91	24628	2.389	ug/l	100
76) 1,3,5-Trimethylbenzene	11.49	105	28399	2.215	ug/l	99
77) t-1,4-Dichloro-2-butene	11.06	75	4309	2.204	ug/l	97
78) 4-Chlorotoluene	11.49	91	27888	2.285	ug/l	98
79) tert-butylbenzene	11.76	119	24694	2.255	ug/l	98
80) 1,2,4-Trimethylbenzene	11.79	105	28850	2.252	ug/l	100
81) sec-Butylbenzene	11.93	105	33089	2.241	ug/l	99
82) p-Isopropyltoluene	12.05	119	30656	2.240	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	16161	2.355	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	16608	2.436	ug/l	98
85) n-Butylbenzene	12.37	91	27421	2.194	ug/l	97
86) Hexachloroethane	12.58	117	5004	2.077	ug/l	93
87) 1,2-Dichlorobenzene	12.38	146	15654	2.359	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.99	75	2925	2.490	ug/l	90
89) 1,2,4-Trichlorobenzene	13.63	180	11373	2.327	ug/l	98
90) Hexachlorobutadiene	13.77	225	5252	2.500	ug/l	96
91) Naphthalene	13.82	128	35151	2.259	ug/l	99
92) 1,2,3-Trichlorobenzene	14.01	180	10731	2.285	ug/l	99

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

