

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX043020\
 Data File : VX015996.D
 Acq On : 30 Apr 2020 15:37
 Operator : JC/SP
 Sample : L2182-07 2.5PPB LOD
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 5/4/2020 3:10:24 PM

Quant Time: May 01 08:39:18 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	4.98	128	49978	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	277127	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	251041	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	116536	30.34	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.13%
60) 4-Bromofluorobenzene	11.12	95	122273	29.04	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.80%
63) Toluene-d8	8.70	98	332103	30.84	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.18	85	6238	1.812	ug/l 99
3) Chloromethane	1.31	50	7578	2.247	ug/l 93
4) Vinyl Chloride	1.39	62	9312	2.430	ug/l 99
5) Bromomethane	1.63	94	6836	2.910	ug/l 96
6) Chloroethane	1.72	64	6245	2.486	ug/l 99
7) Trichlorofluoromethane	1.92	101	12495	2.276	ug/l 99
8) Diethyl Ether	2.17	74	5559	2.537	ug/l 99
9) 1,1,2-Trichlorotrifluoroet	2.37	101	7049	2.487	ug/l 99
10) 1,1-Dichloroethene	2.36	96	6957	2.433	ug/l 91
11) Methyl Iodide	2.49	142	8723	2.234	ug/l 95
12) Methyl Acetate	2.75	43	11422	2.288	ug/l 98
13) Acrolein	2.27	56	4926	12.306	ug/l 96
14) Acrylonitrile	3.12	53	22374	12.131	ug/l 99
15) Acetone	2.42	58	6474	13.264	ug/l 92
16) Carbon Disulfide	2.55	76	24033	2.762	ug/l 97
17) Allyl chloride	2.71	41	12327	2.324	ug/l 87
18) Methylene Chloride	2.84	84	8569	2.675	ug/l 95
19) trans-1,2-Dichloroethene	3.14	96	7660	2.449	ug/l 93
20) Diisopropyl ether	3.82	45	24521	2.397	ug/l 93
21) 1,1-Dichloroethane	3.67	63	14029	2.460	ug/l 97
22) cis-1,2-Dichloroethene	4.57	96	9389	2.645	ug/l 90
23) tert-Butyl Alcohol	3.01	59	11853	13.129	ug/l # 100
24) Methyl tert-Butyl Ether	3.17	73	24168	2.353	ug/l 98
25) Chloroform	5.17	83	13970	2.412	ug/l 94
26) Cyclohexane	5.55	56	12480	2.393	ug/l # 98
29) 1,1-Dichloropropene	5.78	75	11040	2.533	ug/l 84
30) 2-Butanone	4.64	43	31495	12.127	ug/l # 95
31) 2,2-Dichloropropane	4.55	77	12451	2.374	ug/l 99
32) 1,1,1-Trichloroethane	5.46	97	12758	2.413	ug/l 98
33) Carbon Tetrachloride	5.76	117	10979	2.332	ug/l 96
34) Benzene	6.12	78	31023	2.437	ug/l 98
35) Methacrylonitrile	5.01	41	6551	2.375	ug/l 94
36) 1,2-Dichloroethane	6.17	62	12222	2.514	ug/l # 89
37) Trichloroethene	7.19	130	11616	2.565	ug/l 95
38) Methylcyclohexane	7.45	83	12711	2.386	ug/l 98
39) 1,2-Dichloropropane	7.49	63	7851	2.402	ug/l 96
40) Dibromomethane	7.64	93	5890	2.596	ug/l 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	7.88	83	10717	2.291	ug/l	100
42) Vinyl Acetate	3.79	43	99858	11.622	ug/l	100
43) Ethyl Acetate	4.80	43	12508	2.442	ug/l	96
44) Isopropyl Acetate	6.41	43	20245	2.435	ug/l	98
45) 1,4-Dioxane	7.72	88	4428	50.424	ug/l	94
46) Methyl methacrylate	7.75	41	8768	2.225	ug/l	96
47) n-amyl Acetate	10.88	43	16049	2.208	ug/l	97
48) t-1,3-Dichloropropene	9.02	75	12811	2.358	ug/l	97
49) cis-1,3-Dichloropropene	8.42	75	13464	2.399	ug/l	95
50) 1,1,2-Trichloroethane	9.20	97	7599	2.376	ug/l	94
51) Ethyl methacrylate	9.16	69	11251	2.131	ug/l	92
52) 1,3-Dichloropropane	9.35	76	13208	2.389	ug/l	96
53) Dibromochloromethane	9.57	129	7938	2.182	ug/l	99
54) 1,2-Dibromoethane	9.65	107	8354	2.377	ug/l	97
55) 2-Chloroethyl vinyl ether	8.29	63	30297	10.546	ug/l	99
56) Bromoform	10.84	173	5433	1.982	ug/l	99
58) 4-Methyl-2-Pentanone	8.62	43	61041	12.330	ug/l	100
59) 2-Hexanone	9.48	43	45760	11.967	ug/l	99
61) Tetrachloroethene	9.32	164	12731	2.564	ug/l	95
62) Toluene	8.77	91	32227	2.403	ug/l	97
64) Chlorobenzene	10.12	112	20662	2.420	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.21	131	7384	2.278	ug/l	94
66) Ethyl Benzene	10.24	91	35849	2.347	ug/l	100
67) m/p-Xylenes	10.34	106	27226	4.680	ug/l	99
68) o-Xylene	10.68	106	13311	2.373	ug/l	99
69) Styrene	10.70	104	20742	2.160	ug/l	95
70) Isopropylbenzene	11.00	105	35028	2.313	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.25	83	5838	2.073	ug/l	99
72) 1,2,3-Trichloropropane	11.28	75	11214m	2.459	ug/l	
73) Bromobenzene	11.24	156	9023	2.364	ug/l	96
74) n-propylbenzene	11.35	91	40678	2.312	ug/l	99
75) 2-Chlorotoluene	11.41	91	24777	2.397	ug/l	99
76) 1,3,5-Trimethylbenzene	11.49	105	28281	2.200	ug/l	97
77) t-1,4-Dichloro-2-butene	11.06	75	4393	2.240	ug/l	96
78) 4-Chlorotoluene	11.49	91	29116	2.379	ug/l	100
79) tert-butylbenzene	11.76	119	25432	2.316	ug/l	99
80) 1,2,4-Trimethylbenzene	11.79	105	29186	2.272	ug/l	99
81) sec-Butylbenzene	11.93	105	32785	2.214	ug/l	99
82) p-Isopropyltoluene	12.05	119	30406	2.215	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	16413	2.385	ug/l	99
84) 1,4-Dichlorobenzene	12.09	146	16801	2.457	ug/l	97
85) n-Butylbenzene	12.37	91	27487	2.192	ug/l	100
86) Hexachloroethane	12.58	117	5144	2.129	ug/l	97
87) 1,2-Dichlorobenzene	12.38	146	15965	2.399	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	2733	2.319	ug/l	91
89) 1,2,4-Trichlorobenzene	13.63	180	11341	2.313	ug/l	98
90) Hexachlorobutadiene	13.77	225	5238	2.486	ug/l	96
91) Naphthalene	13.82	128	35916	2.301	ug/l	99
92) 1,2,3-Trichlorobenzene	14.00	180	11677	2.479	ug/l	95

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

