

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032620\
 Data File : VX015362.D
 Acq On : 26 Mar 2020 17:16
 Operator : JC/SP
 Sample : L1161-09 2.5PPB MDL
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 MDL-WATER-03-QT1-2020DL

Manual Integrations
 APPROVED

apatel
 3/27/2020 5:59:56 PM

Quant Time: Mar 27 08:26:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X032520W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 26 02:31:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	4.98	128	196803	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.84	114	1109343	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.10	117	983739	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.04	65	467592	30.41	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.37%
60) 4-Bromofluorobenzene	11.12	95	509708	30.28	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	100.93%
63) Toluene-d8	8.70	98	1301355	31.14	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	28414	3.023 ug/l	96
3) Chloromethane	1.31	50	33551	2.893 ug/l	94
4) Vinyl Chloride	1.39	62	30059	2.694 ug/l	95
5) Bromomethane	1.63	94	25286	4.257 ug/l	99
6) Chloroethane	1.72	64	19725	2.833 ug/l	95
7) Trichlorofluoromethane	1.92	101	43543	2.731 ug/l	99
8) Diethyl Ether	2.17	74	16562	2.699 ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.37	101	29315	2.779 ug/l	96
10) 1,1-Dichloroethene	2.36	96	29375	2.741 ug/l	96
11) Methyl Iodide	2.50	142	14810	1.040 ug/l	98
12) Methyl Acetate	2.75	43	43350	2.765 ug/l	96
13) Acrolein	2.27	56	23556	11.548 ug/l	97
14) Acrylonitrile	3.12	53	93931	13.992 ug/l	98
15) Acetone	2.42	58	24682	14.459 ug/l	100
16) Carbon Disulfide	2.55	76	88861	2.837 ug/l	97
17) Allyl chloride	2.71	41	63801	2.637 ug/l	99
18) Methylene Chloride	2.84	84	35091	2.917 ug/l	99
19) trans-1,2-Dichloroethene	3.14	96	31841	2.747 ug/l	97
20) Diisopropyl ether	3.83	45	115645	2.665 ug/l	89
21) 1,1-Dichloroethane	3.68	63	60147	2.715 ug/l	99
22) cis-1,2-Dichloroethene	4.58	96	35716	2.674 ug/l	98
23) tert-Butyl Alcohol	3.01	59	50888	15.411 ug/l #	100
24) Methyl tert-Butyl Ether	3.17	73	108678	2.732 ug/l	95
25) Chloroform	5.18	83	58325	2.664 ug/l	98
26) Cyclohexane	5.56	56	55594	2.627 ug/l #	97
29) 1,1-Dichloropropene	5.78	75	44760	2.686 ug/l	98
30) 2-Butanone	4.64	43	136214	13.633 ug/l	97
31) 2,2-Dichloropropane	4.56	77	55283	2.756 ug/l	96
32) 1,1,1-Trichloroethane	5.47	97	59113m	2.907 ug/l	
33) Carbon Tetrachloride	5.76	117	48632	2.624 ug/l	99
34) Benzene	6.12	78	129775	2.702 ug/l	94
35) Methacrylonitrile	5.01	41	29683	2.620 ug/l	92
36) 1,2-Dichloroethane	6.17	62	52559	2.832 ug/l	97
37) Trichloroethene	7.19	130	37186	2.749 ug/l	95
38) Methylcyclohexane	7.44	83	53367	2.612 ug/l	96
39) 1,2-Dichloropropane	7.49	63	35578m	2.757 ug/l	
40) Dibromomethane	7.64	93	21318	2.482 ug/l	99

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

41) Bromodichloromethane	7.88	83	49611	2.658	ug/l	94
42) Vinyl Acetate	3.79	43	527844	13.943	ug/l	100
43) Ethyl Acetate	4.81	43	72920m	3.355	ug/l	
44) Isopropyl Acetate	6.42	43	94193	2.693	ug/l	97
45) 1,4-Dioxane	7.72	88	17677	54.862	ug/l #	89
46) Methyl methacrylate	7.75	41	47338	2.712	ug/l	88
47) n-amyl Acetate	10.89	43	80770	2.678	ug/l	99
48) t-1,3-Dichloropropene	9.03	75	56789	2.636	ug/l	99
49) cis-1,3-Dichloropropene	8.42	75	57970	2.607	ug/l	97
50) 1,1,2-Trichloroethane	9.20	97	32370	2.626	ug/l	94
51) Ethyl methacrylate	9.16	69	53426	2.521	ug/l	95
52) 1,3-Dichloropropane	9.35	76	57342	2.694	ug/l	99
53) Dibromochloromethane	9.57	129	37744	2.484	ug/l	98
54) 1,2-Dibromoethane	9.66	107	34454	2.605	ug/l	97
55) 2-Chloroethyl vinyl ether	8.29	63	128818	12.868	ug/l	99
56) Bromoform	10.84	173	29655	2.374	ug/l	97
58) 4-Methyl-2-Pentanone	8.62	43	269757	14.328	ug/l	99
59) 2-Hexanone	9.48	43	196367	13.710	ug/l	99
61) Tetrachloroethene	9.32	164	35337	2.795	ug/l	93
62) Toluene	8.77	91	136446	2.738	ug/l	100
64) Chlorobenzene	10.12	112	90131	2.813	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.21	131	34311	2.621	ug/l	99
66) Ethyl Benzene	10.24	91	158569	2.786	ug/l	99
67) m/p-Xylenes	10.34	106	115599	5.366	ug/l	97
68) o-Xylene	10.68	106	56505	2.683	ug/l	98
69) Styrene	10.70	104	99234	2.705	ug/l	99
70) Isopropylbenzene	11.00	105	155004	2.777	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.25	83	50214	2.775	ug/l	96
72) 1,2,3-Trichloropropane	11.28	75	46686m	2.757	ug/l	
73) Bromobenzene	11.24	156	39199	2.616	ug/l	99
74) n-propylbenzene	11.35	91	171789	2.683	ug/l	100
75) 2-Chlorotoluene	11.41	91	104245	2.677	ug/l	98
76) 1,3,5-Trimethylbenzene	11.49	105	132932	2.773	ug/l	98
77) t-1,4-Dichloro-2-butene	11.06	75	18400	2.522	ug/l	98
78) 4-Chlorotoluene	11.49	91	120860	2.683	ug/l	98
79) tert-butylbenzene	11.76	119	124414	2.597	ug/l	97
80) 1,2,4-Trimethylbenzene	11.79	105	128091	2.637	ug/l	97
81) sec-Butylbenzene	11.93	105	145965	2.656	ug/l	100
82) p-Isopropyltoluene	12.05	119	138308	2.670	ug/l	99
83) 1,3-Dichlorobenzene	12.01	146	71330	2.647	ug/l	100
84) 1,4-Dichlorobenzene	12.09	146	71319	2.652	ug/l	98
85) n-Butylbenzene	12.37	91	122656	2.656	ug/l	98
86) Hexachloroethane	12.58	117	24577	2.455	ug/l	94
87) 1,2-Dichlorobenzene	12.38	146	69968	2.661	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	12.98	75	13885	2.913	ug/l	94
89) 1,2,4-Trichlorobenzene	13.63	180	55495	2.620	ug/l	95
90) Hexachlorobutadiene	13.77	225	24867	2.229	ug/l	94
91) Naphthalene	13.82	128	163242	2.662	ug/l	100
92) 1,2,3-Trichlorobenzene	14.00	180	50335	2.393	ug/l	99

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

