

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX032621\
 Data File : VX021535.D
 Acq On : 26 Mar 2021 16:14
 Operator : JC/MD
 Sample : M1458-07 2.5PPB LOD
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2021

Manual Integrations
 APPROVED

SAM

3/30/2021 7:14:59 PM

Quant Time: Mar 27 04:52:45 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032621W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Mar 27 04:47:38 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Bromochloromethane	4.982	128	13742	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.829	114	76717	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.094	117	68432	30.00	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	6.029	65	38368	29.90	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	99.67%	
60) 4-Bromofluorobenzene	11.118	95	34685	28.82	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	96.07%	
63) Toluene-d8	8.694	98	94488	30.74	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	102.47%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.187	85	2164	1.69	ug/l	91
3) Chloromethane	1.311	50	3030	2.60	ug/l	94
4) Vinyl Chloride	1.393	62	2214	2.13	ug/l	99
5) Bromomethane	1.623	94	1201	2.88	ug/l	90
6) Chloroethane	1.705	64	1370	2.21	ug/l #	86
7) Trichlorofluoromethane	1.911	101	3411	2.19	ug/l	92
8) Diethyl Ether	2.164	74	1117	2.18	ug/l	43
9) 1,1,2-Trichlorotrifluo...	2.364	101	1836	2.13	ug/l	96
10) 1,1-Dichloroethene	2.346	96	1760	2.15	ug/l	93
11) Methyl Iodide	2.487	142	1400	2.05	ug/l	94
12) Methyl Acetate	2.752	43	2953	1.76	ug/l #	85
13) Acrolein	2.276	56	2022	12.82	ug/l	96
14) Acrylonitrile	3.117	53	5853m	11.22	ug/l	
15) Acetone	2.423	58	1684	12.19	ug/l	94
16) Carbon Disulfide	2.546	76	4966	2.17	ug/l	97
17) Allyl chloride	2.705	41	3679	2.32	ug/l	84
18) Methylene Chloride	2.834	84	2533	2.62	ug/l #	90
19) trans-1,2-Dichloroethene	3.135	96	2002	2.26	ug/l #	90
20) Diisopropyl ether	3.823	45	7079	2.23	ug/l #	92
21) 1,1-Dichloroethane	3.664	63	3977	2.31	ug/l #	90
22) cis-1,2-Dichloroethene	4.564	96	2340	2.29	ug/l #	81
23) tert-Butyl Alcohol	3.017	59	2615	11.81	ug/l #	17
24) Methyl tert-Butyl Ether	3.170	73	6823	2.28	ug/l #	84
25) Chloroform	5.170	83	4048	2.21	ug/l	93
26) Cyclohexane	5.541	56	3259	2.19	ug/l #	44
29) 1,1-Dichloropropene	5.758	75	2899	2.24	ug/l #	56
30) 2-Butanone	4.641	43	8794	11.63	ug/l	92
31) 2,2-Dichloropropane	4.547	77	3194	2.21	ug/l #	80
32) 1,1,1-Trichloroethane	5.464	97	3634	2.27	ug/l #	75
33) Carbon Tetrachloride	5.735	117	3163m	2.23	ug/l	
34) Benzene	6.111	78	8157	2.21	ug/l	93
35) Methacrylonitrile	5.000	41	2094m	2.52	ug/l	
36) 1,2-Dichloroethane	6.158	62	3849	2.43	ug/l #	88
37) Trichloroethene	7.182	130	2252	2.35	ug/l	89
38) Methylcyclohexane	7.441	83	3055	2.13	ug/l	90
39) 1,2-Dichloropropane	7.494	63	2413	2.45	ug/l	90
40) Dibromomethane	7.629	93	1737	2.41	ug/l	85
41) Bromodichloromethane	7.876	83	3271	2.21	ug/l	99
42) Vinyl Acetate	3.782	43	29325	11.29	ug/l #	92

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.799	43	3394	2.36	ug/l #	71
44) Isopropyl Acetate	6.406	43	5433	2.25	ug/l #	75
45) 1,4-Dioxane	7.718	88	1006	41.93	ug/l #	81
46) Methyl methacrylate	7.741	41	2717	2.05	ug/l	88
47) n-amyl Acetate	10.877	43	4140	1.99	ug/l	96
48) t-1,3-Dichloropropene	9.024	75	3069	2.06	ug/l	99
49) cis-1,3-Dichloropropene	8.412	75	3288	2.06	ug/l #	84
50) 1,1,2-Trichloroethane	9.194	97	2210	2.29	ug/l	98
51) Ethyl methacrylate	9.159	69	2987	2.11	ug/l #	70
52) 1,3-Dichloropropane	9.353	76	3794	2.30	ug/l	98
53) Dibromochloromethane	9.565	129	2299	2.09	ug/l	97
54) 1,2-Dibromoethane	9.653	107	2331	2.25	ug/l	96
55) 2-Chloroethyl vinyl ether	8.288	63	9387	11.95	ug/l	96
56) Bromoform	10.841	173	1628	2.09	ug/l	99
58) 4-Methyl-2-Pentanone	8.618	43	16622	11.51	ug/l #	88
59) 2-Hexanone	9.471	43	12130	11.18	ug/l #	86
61) Tetrachloroethene	9.318	164	1967	2.37	ug/l	96
62) Toluene	8.765	91	8866	2.30	ug/l	97
64) Chlorobenzene	10.118	112	5675	2.41	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.200	131	2089	2.25	ug/l	97
66) Ethyl Benzene	10.235	91	9180	2.13	ug/l	93
67) m/p-Xylenes	10.341	106	6632	4.18	ug/l	91
68) o-Xylene	10.683	106	3330	2.17	ug/l	95
69) Styrene	10.694	104	5492	2.15	ug/l	95
70) Isopropylbenzene	11.000	105	8788	2.10	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.247	83	3374	2.36	ug/l	98
72) 1,2,3-Trichloropropane	11.277	75	3317m	2.43	ug/l	
73) Bromobenzene	11.236	156	2198	2.18	ug/l	91
74) n-propylbenzene	11.342	91	10326	2.11	ug/l	96
75) 2-Chlorotoluene	11.400	91	6531	2.19	ug/l	98
76) 1,3,5-Trimethylbenzene	11.489	105	7447	2.09	ug/l	100
77) t-1,4-Dichloro-2-butene	11.053	75	796	1.82	ug/l	60
78) 4-Chlorotoluene	11.494	91	7453	2.14	ug/l	96
79) tert-butylbenzene	11.753	119	7312	2.16	ug/l	94
80) 1,2,4-Trimethylbenzene	11.789	105	7423	2.09	ug/l	96
81) sec-Butylbenzene	11.930	105	7944	2.02	ug/l	99
82) p-Isopropyltoluene	12.047	119	7014	1.95	ug/l	94
83) 1,3-Dichlorobenzene	12.006	146	4002	2.22	ug/l	97
84) 1,4-Dichlorobenzene	12.083	146	3861	2.14	ug/l	95
85) n-Butylbenzene	12.371	91	6018	1.88	ug/l	96
86) Hexachloroethane	12.577	117	1489	2.36	ug/l	85
87) 1,2-Dichlorobenzene	12.371	146	3819	2.15	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	12.983	75	729	2.18	ug/l	87
89) 1,2,4-Trichlorobenzene	13.630	180	2341	2.09	ug/l	99
90) Hexachlorobutadiene	13.765	225	1264	2.67	ug/l	89
91) Naphthalene	13.818	128	7158	1.92	ug/l	99
92) 1,2,3-Trichlorobenzene	14.001	180	2333	2.09	ug/l	99

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

