

6b.4 Frequency Stability in the MOTotalk ISM Band -- Pursuant 47 CFR 2.1055(a)(1) and §2.1055(d)(2)

The transmitter was set to transmit on a single frequency of 915.525 MHz using a special test mode not accessible by the user. The data shown below shows the maximum frequency excursion due to temperature and voltage extremes.

Frequency Stability (in ppm) at 915.525 MHz, Voltage = 4V_{DC}		
TEMP (°C)	Frequency Error (Hz)	Error (ppm)
-30	69	0.075
-20	220	0.240
-10	260	0.283
0	66	0.072
10	31	0.033
20	101	0.110
30	136	0.148
40	93	0.101
50	147	0.160
60	144	0.157

Table 6b.4.1 Transmitter Frequency Stability vs. Temperature at 915.525 MHz.

Frequency Stability (in ppm) at 915.525 MHz, Temperature = 25°C		
Power Supply Output Voltage (V)	Frequency Error (Hz)	Error (ppm)
3.55	42	0.046
3.6	61	0.067
3.7	120	0.131
3.8	65	0.071
3.9	102	0.111
4.0	45	0.049
4.1	28	0.031
4.2	69	0.075

Table 6b.4.2 Transmitter Frequency Stability vs. Voltage at 915.525 MHz.