

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 915.525MHz, Voltage = 4V		
TEMP	Frequency Error (Hz)	PPM
-30	47.12	0.051
-20	39.74	0.043
-10	19.09	0.021
0	84.31	0.092
10	36.24	0.040
20	18.78	0.021
30	31.25	0.034
40	32.65	0.036
50	13.14	0.014
60	10.20	0.011

Table 6b-4.1 Transmitter Frequency stability vs Temperature at 915.525 MHz

Frequency Stability in PPM at 915.525MHz, Temperature = 25°C		
Power Supply Output Voltage	Frequency Error in Hz	PPM
3.55	21.58	0.024
3.6	18.79	0.021
3.7	23.66	0.026
3.8	24.31	0.027
3.9	23.91	0.026
4.0	18.50	0.020
4.1	14.13	0.015
4.2	27.17	0.030

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