

6a.5 Land Mobile Frequency Stability -- Pursuant 47 CFR 2.1055a (1) & 2.1055(d)2

Frequency stability measurements were made as described in paragraph 7.4. Because of the transmitter's dependence on the stability of the base station oscillator, it is not possible to provide stability data for this transmitter as is commonly supplied for certification per 47 CFR 2.1055 for a radio with a locally stabilized oscillator. The following data was collected in a setup comprising of a base station simulator and it represents the absolute frequency error of the transceiver under test versus the base station frequency reference.

Frequency Stability in ppm at 813.45 MHz			
Temp, °C	3.55V	4.0V	4.2V
-30	0.03	0.01	0.01
-20	0.03	0.03	0.03
-10	0.01	0.02	0.01
0	0.02	0.02	0.02
10	0.02	0.01	0.01
20	0.04	0.03	0.03
30	0.03	0.03	0.02
40	0.02	0.02	0.02
50	0.02	0.02	0.02

Table 6a-5.1. Transmitter Frequency Stability VS Temperature at 800 MHz

Frequency Stability in ppm at 898.49375MHz			
Temp, °C	3.55V	4.0V	4.2V
-30	0.06	0.03	0.06
-20	0.04	0.04	0.05
-10	0.02	0.03	0.02
0	0.02	0.03	0.03
10	0.01	0.02	0.03
20	0.03	0.03	0.03
30	0.02	0.02	0.02
40	0.03	0.03	0.02
50	0.03	0.03	0.02

Table 6a-5.2. Transmitter Frequency Stability VS Temperature at 900 MHz

At 813.45 MHz	
Voltage, V	Tx Freq Stability, ppm
4.2	0.05
4.1	0.04
4	0.02
3.9	0.03
3.8	0.03
3.7	0.03
3.6	0.03
3.55	0.03

Table 6a-5.3. Transmitter Frequency Stability VS Voltage at 800 MHz

At 898.49375 MHz	
Voltage, V	Tx Freq Stability, ppm
4.2	0.03
4.1	0.02
4	0.02
3.9	0.02
3.8	0.02
3.7	0.02
3.6	0.01
3.55	0.02

Table 6a-5.4. Transmitter Frequency Stability VS Voltage at 900 MHz