6.6. FREQUENCY STABILITY @ FCC 2.1055 & 90.213

6.6.1. Limits @ FCC 90.213

Please refer to FCC CFR 47, Part 90, Subpart I, Para. 90.213 for specification details.

FREQUENCY RANGE (MHz)	FIXED & BASE STATIONS (ppm)	MOBILE STATIONS (ppm) ≤ 2 W
896-901	0.1	1.5

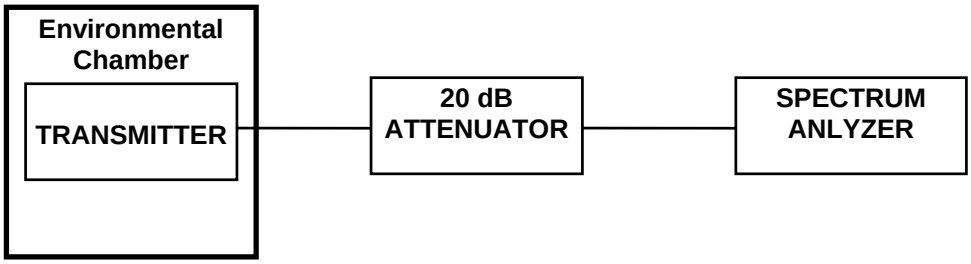
6.6.2. Method of Measurements

Refer to Exhibit 8, § 8.3 of this report for measurement details

6.6.3. Test Equipment List

Test Instruments	Manufacturer	Model No.	Serial No.	Frequency Range
EMI Receiver/ EMI Receiver	Hewlett Packard	HP 8593EM	3412A00103	9 kHz – 26.5 GHz
Attenuator(s)	Bird	..	…	DC – 22 GHz
Temperature & Humidity Chamber	Tenney	T5	9723B	-40° to +60 ° C range

6.6.4. Test Arrangement



6.6.5. Test Data

Product Name: **Model No.:**	**Boomer-III Mobitex Wireless OEM Modem Module** **BM3-900M**
Center Frequency:	896 MHz
Full Power Level:	33 dBm
Frequency Tolerance Limit:	±1.5 ppm or ±1344 Hz at 896 MHz
Max. Frequency Tolerance Measured:	-0.73 ppm or -662 Hz
Input Voltage Rating:	3.8 VDC

CENTER FREQUENCY & RF POWER OUTPUT VARIATION			
Ambient Temperature (^{o}C)	**Supply Voltage (Nominal)** **3.8 Volts** **Hz**	**Supply Voltage (85% of Nominal)** **3.2 Volts** **Hz**	**Supply Voltage (115% of Nominal)** **4.4 Volts** **Hz**
-30	515	N/A	N/A
-25	233	N/A	N/A
-20	-304	N/A	N/A
-15	-614	N/A	N/A
-10	-662	N/A	N/A
-5	-586	N/A	N/A
0	-456	N/A	N/A
+5	-273	N/A	N/A
+10	-166	N/A	N/A
+15	-79	N/A	N/A
+20	-6	+14	+22
+25	-7	N/A	N/A
+30	-56	N/A	N/A
+35	-75	N/A	N/A
+45	-64	N/A	N/A
+50	-3	N/A	N/A
+55	55	N/A	N/A
+60	185	N/A	N/A

- *All test results contained in this engineering test report are traceable to National Institute of Standards and Technology (NIST)*