

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)
896-901	0.1	$\leq 2 \text{ W}$ 1.5

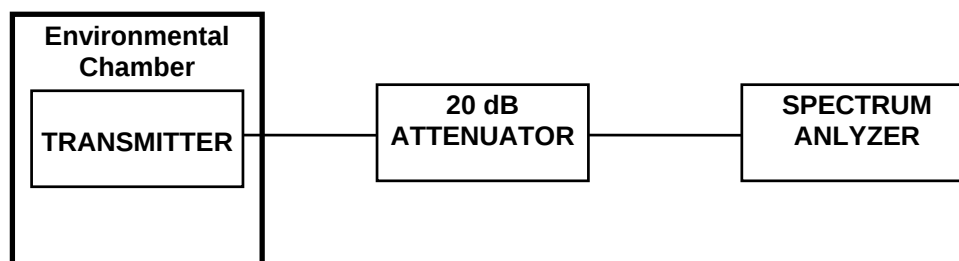
6.6.2. Method of Measurements

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:	Boomer-III Mobitex Wireless OEM Modem Module
Model No.:	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 (°C)	Supply Voltage (Nominal)	Supply Voltage (85% of Nominal)	Supply Voltage (115% of Nominal)
	3.8 Volts	3.2 Volts	4.4 Volts
	Hz	Hz	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

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