

Requirements of FCC 15.407 (g)
and RSS-210 Section 6.2.2(q1)(iv)(e)

The EUT contains a module approved under the FCC-ID: NKRCM9.

The reason for the certification is because the EUT is using different power levels and higher gain antennas than what was used for certification under FCC-ID: NKRCM9.

The Frequency Stability was performed as a modular unit under the test report number 04LR018FC. Please see pages 65 and 66 of test report number: 04LR018FC for the test procedure, setup, and data.

4.8 Frequency Stability [Section 15.407(g)]

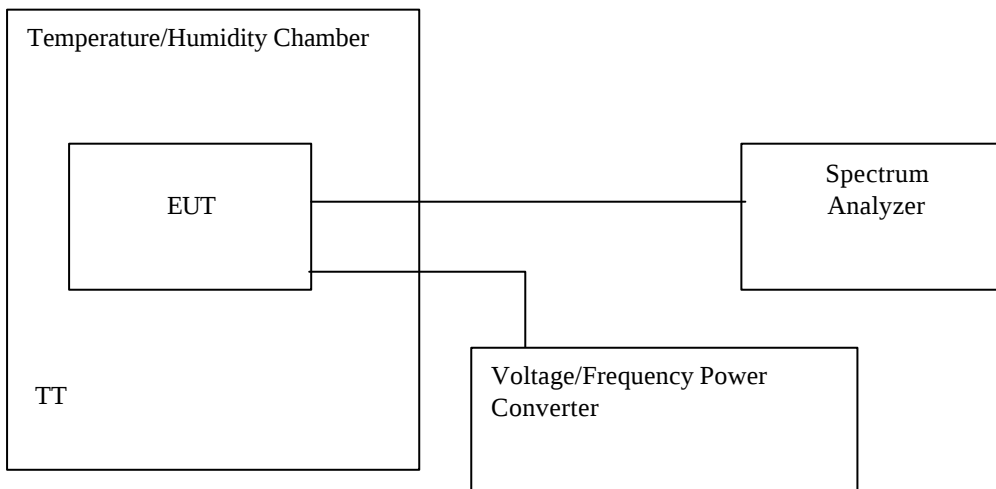
4.8.1 Limits of Frequency Stability Measurement

The frequency tolerance of the carrier sing shall be maintained within +/- 0.02% of the operating frequency over the operation temperature range of EUT (0⁰C~35⁰C), and variation in the primary supply voltage from 85% to 115% of the rated supply voltage (115V AC) at 20⁰C.

4.8.2 Test Procedure

1. The EUT was placed in the Temperature/Humidity Chamber and powered by a Voltage/Frequency Power converter.
2. Connect the RF output of EUT to Spectrum. Turn on the EUT.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. Allow sufficient time (approximately 30 min) for the chamber temperature to stabilize. Turn the EUT on and measure the operating frequency after 2, 5, 10 minutes.
5. Set the Voltage/Frequency Power Converter to 85% and 115% of supply voltage, then repeat step 2, 3, 4 respectively.
6. Repeat step 2 , 3, 4, 5 with the temperature of chamber set to the lowest temperature.
7. Repeat step 2 , 3, 4, 5 with the temperature of chamber set to 20⁰C.

4.8.3 Test Setup



4.8.4 Test Data

Test Engr: Mailes
Hsieh

Operating Frequency:		5180 (Mhz)		Limit: +/- 0.02%			
Temp.	Power Supply	2 minutes		5 minutes		10 minutes	
(⁰ C)	(V AC)	(MHz)	(%)	(MHz)	(%)	(MHz)	
35	132	5179.9836	-0.000317	5179.9670	-0.000637	5179.9810	-0.000367
	115	5179.9974	-0.000050	5179.9862	-0.000266	5179.9730	-0.000521
	97	5180.0062	0.000120	5179.9842	-0.000305	5179.9870	-0.000251
0	132	5180.0134	0.000259	5180.0004	0.000008	5180.0116	0.000224
	115	5180.0018	0.000035	5180.0032	0.000062	5180.0086	0.000166
	97	5180.0144	0.000278	5180.0104	0.000201	5180.0116	0.000224
20	132	5179.9424	-0.001112	5179.9778	-0.000429	5179.9710	-0.000560
	115	5179.9876	-0.000239	5179.9748	-0.000486	5179.9712	-0.000556
	97	5179.9678	-0.000622	5179.9692	-0.000595	5179.9680	-0.000618