



8. FREQUENCY STABILITY

8.1 APPLIED PROCEDURES / LIMIT

Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

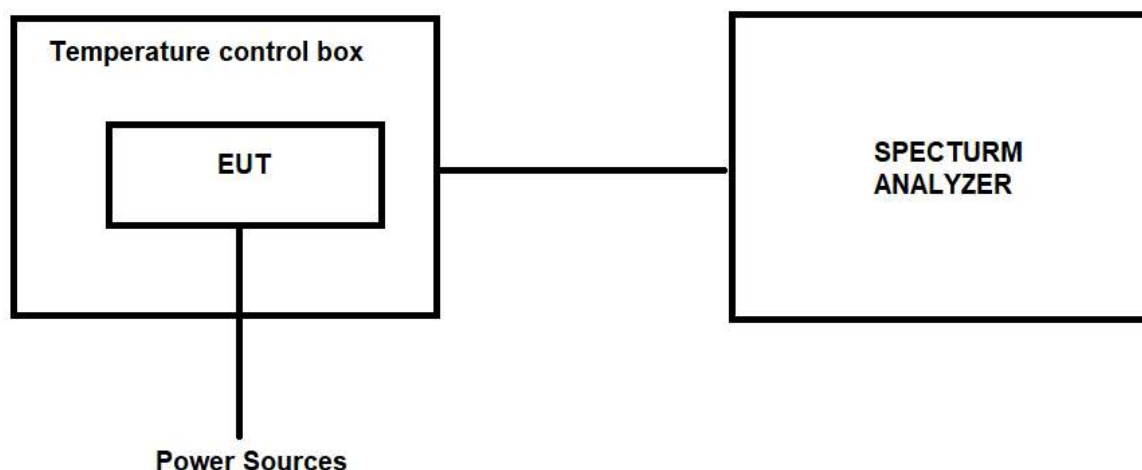
8.1.1 TEST PROCEDURE

1. The EUT was placed inside temperature chamber and powered and powered by nominal DC voltage.
2. Set EUT as normal operation.
3. Turn the EUT on and couple its output to spectrum.
4. Turn the EUT off and set the chamber to the highest temperature specified.
5. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT and measure the operating frequency.
6. Repeat step with the temperature chamber set to the lowest temperature.

8.1.2 DEVIATION FROM STANDARD

No deviation.

8.1.3 TEST SETUP



8.1.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



8.1.5 TEST RESULTS

Test Voltage	Test Temp	Measured Frequency	Spectrum Frequency (MHz)			Δ Frequency (PPM)		
		(MHz)	802.11a	802.11n HT20	802.11ac HT20	802.11a	802.11n HT20	802.11ac HT20
100V	-20℃	5180	5180.0335	5180.0354	5180.0356	6.4672	6.8340	6.8726
		5220	5220.0365	5220.0315	5220.0375	6.9923	6.0345	7.1839
		5240	5240.0240	5240.0262	5240.0259	4.5802	5.0000	4.9427
		5745	5745.0377	5745.0339	5745.0323	6.5622	5.9008	5.6223
		5785	5785.0400	5785.0347	5785.0342	6.9144	5.9983	5.9118
		5825	5825.0354	5825.0377	5825.0362	6.0773	6.4721	6.2146
140V	-20℃	5180	5180.0243	5180.0236	5180.0240	4.6911	4.5560	4.6332
		5220	5220.0334	5220.0354	5220.0357	6.3985	6.7816	6.8391
		5240	5240.0274	5240.0264	5240.0243	5.2290	5.0382	4.6374
		5745	5745.0229	5745.0224	5745.0235	3.9861	3.8990	4.0905
		5785	5785.0397	5785.0313	5785.0353	6.8626	5.4105	6.1020
		5825	5825.0464	5825.0459	5825.0481	7.9657	7.8798	8.2575
120V	25℃	5180	5180.0563	5180.0533	5180.0589	10.8687	10.2896	11.3707
		5220	5220.0270	5220.0288	5220.0270	5.1724	5.5172	5.1724
		5240	5240.0372	5240.0350	5240.0354	7.0992	6.6794	6.7557
		5745	5745.0355	5745.0332	5745.0364	6.1793	5.7789	6.3359
		5785	5785.0501	5785.0427	5785.0479	8.6603	7.3812	8.2800
		5825	5825.0234	5825.0291	5825.0248	4.0172	4.9957	4.2575
100V	50℃	5180	5180.0329	5180.0373	5180.0364	6.3514	7.2008	7.0270
		5220	5220.0286	5220.0248	5220.0245	5.4789	4.7510	4.6935
		5240	5240.0338	5240.0362	5240.0385	6.4504	6.9084	7.3473
		5745	5745.0687	5745.0654	5745.0675	11.9582	11.3838	11.7493
		5785	5785.0438	5785.0435	5785.0455	7.5713	7.5194	7.8652
		5825	5825.0698	5825.0635	5825.0667	11.9828	10.9013	11.4506
140V	50℃	5180	5180.0324	5180.0330	5180.0375	6.2548	6.3707	7.2394
		5220	5220.0222	5220.0272	5220.0284	4.2529	5.2107	5.4406
		5240	5240.0337	5240.0363	5240.0365	6.4313	6.9275	6.9656
		5745	5745.0448	5745.0447	5745.0449	7.7981	7.7807	7.8155
		5785	5785.0261	5785.0261	5785.0250	4.5117	4.5117	4.3215
		5825	5825.0752	5825.0746	5825.0777	12.9099	12.8069	13.3391



Test Voltage	Test Temp	Measured Frequency (MHz)	Spectrum Frequency (MHz)		Δ Frequency (PPM)	
			802.11n HT40	802.11ac HT40	802.11n HT40	802.11ac HT40
100V	-20℃	5190	5190.0335	5190.0354	6.4547	6.8208
		5230	5230.0365	5230.0316	6.9790	6.0421
		5755	5755.0240	5755.0262	4.1703	4.5526
		5795	5795.0377	5795.0339	6.5056	5.8499
140V		5190	5190.0400	5190.0347	7.7071	6.6859
		5230	5230.0355	5230.0377	6.7878	7.2084
		5755	5755.0243	5755.0236	4.2224	4.1008
		5795	5795.0334	5795.0354	5.7636	6.1087
120V	25℃	5190	5190.0275	5190.0264	5.2987	5.0867
		5230	5230.0229	5230.0225	4.3786	4.3021
		5755	5755.0397	5755.0314	6.8983	5.4561
		5795	5795.0464	5795.0459	8.0069	7.9206
100V	50℃	5190	5190.0563	5190.0533	10.8478	10.2697
		5230	5230.0270	5230.0288	5.1625	5.5067
		5755	5755.0372	5755.0350	6.4639	6.0817
		5795	5795.0356	5795.0332	6.1432	5.7291
140V		5190	5190.0501	5190.0427	9.6532	8.2274
		5230	5230.0234	5230.0291	4.4742	5.5641
		5755	5755.0329	5755.0373	5.7168	6.4813
		5795	5795.0286	5795.0248	4.9353	4.2796



Test Voltage	Test Temp.	Measured Frequency (MHz)	Spectrum Frequency (MHz)	Δ Frequency (PPM)
			802.11ac HT80	802.11ac HT80
100V	-20°C	5210	5210.0294	5.6430
		5775	5775.0320	5.5411
140V	-20°C	5210	5210.0211	4.0499
		5775	5775.0331	5.7316
120V	25°C	5210	5210.0351	6.7370
		5775	5775.0311	5.3853
100V	50°C	5210	5210.0213	4.0883
		5775	5775.0293	5.0736
140V	50°C	5210	5210.0241	4.6257
		5775	5775.0201	3.4805



9. TRANSMISSION IN THE ABSENCE OF DATA

9.1 STANDARD REQUIREMENT

According to §15.407(c)

The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

9.2 TEST RESULT

No non-compliance noted:
Refer to the theory of operation.

10. ANTENNA REQUIREMENT

10.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

10.2 EUT ANTENNA

The EUT antenna is FPC Antenna, It comply with the standard requirement.

11. TEST SEUUP PHOTO

Reference to the appendix I for details.

12. EUT PHOTO

Reference to the appendix II for details.

***** END OF REPORT *****