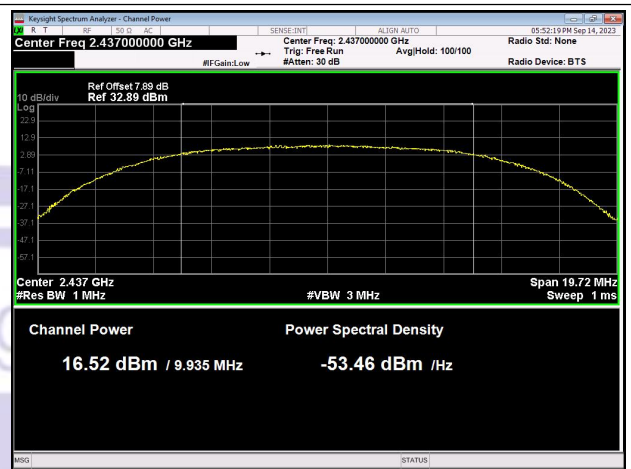
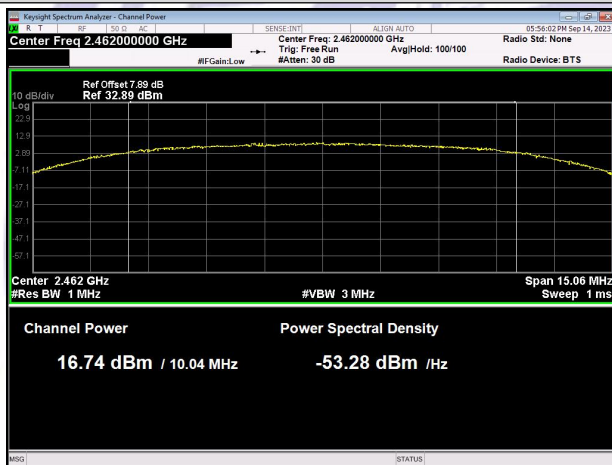


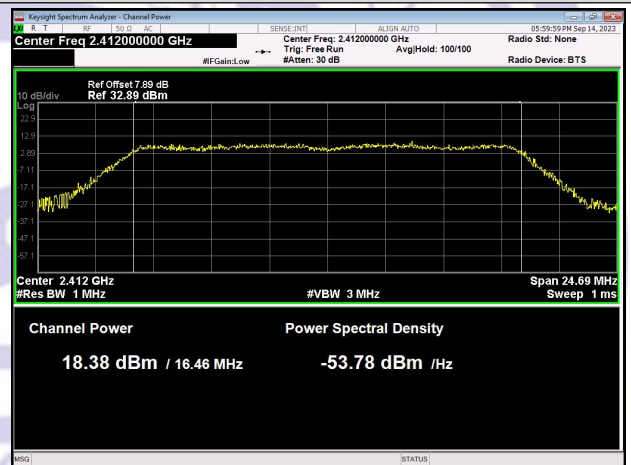
Conducted peak output power  
IEEE 802.11b\_Channel 1\_Antenna 0



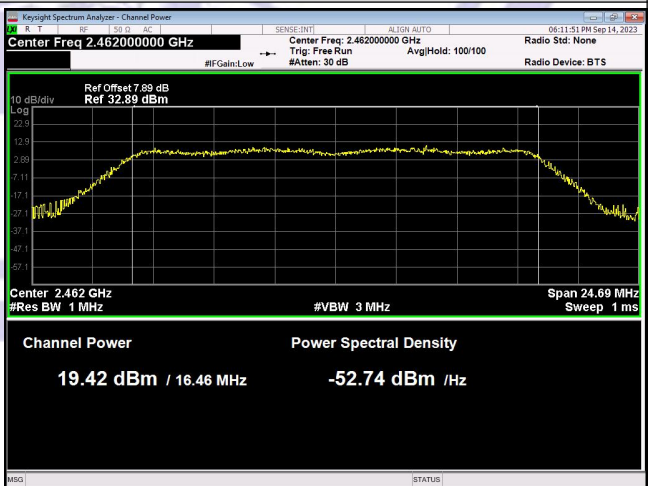
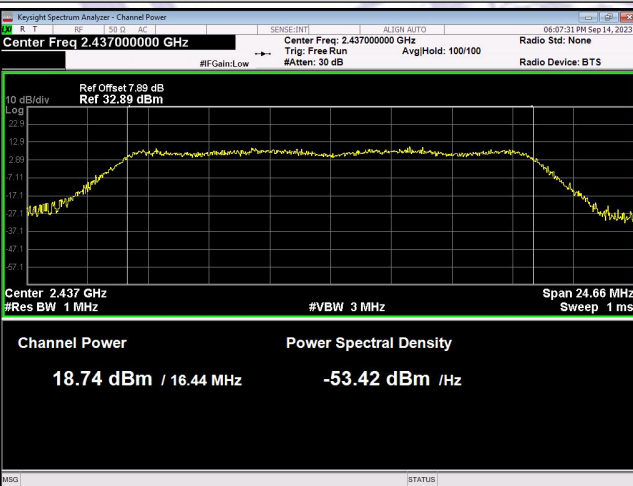
Conducted peak output power  
IEEE 802.11b\_Channel 6\_Antenna 0



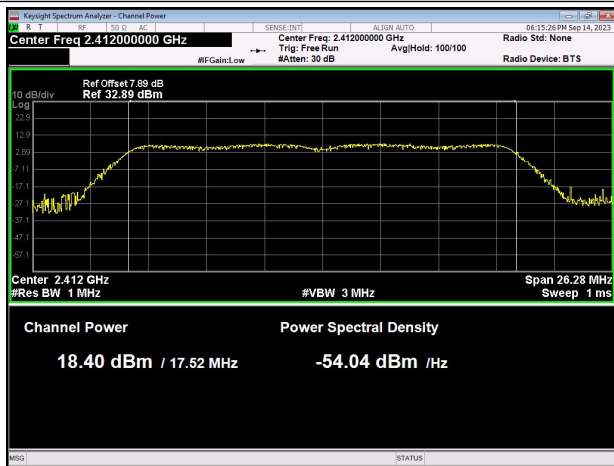
Conducted peak output power  
IEEE 802.11b\_Channel 11\_Antenna 0



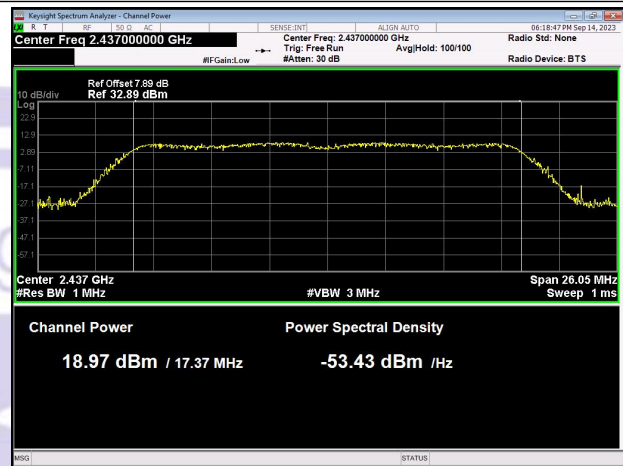
Conducted peak output power  
IEEE 802.11g\_Channel 1\_Antenna 0



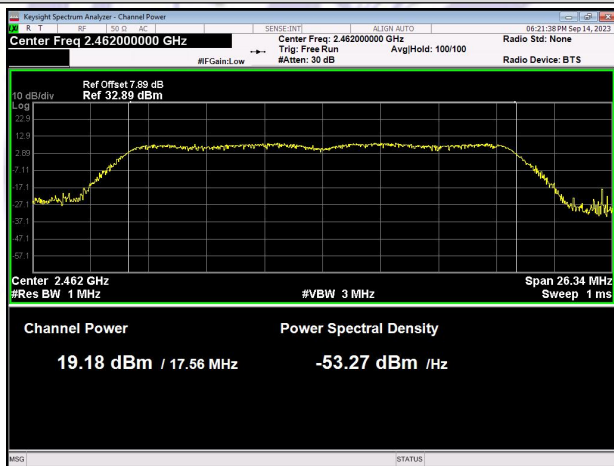
Conducted peak output power  
IEEE 802.11g\_Channel 6\_Antenna 0



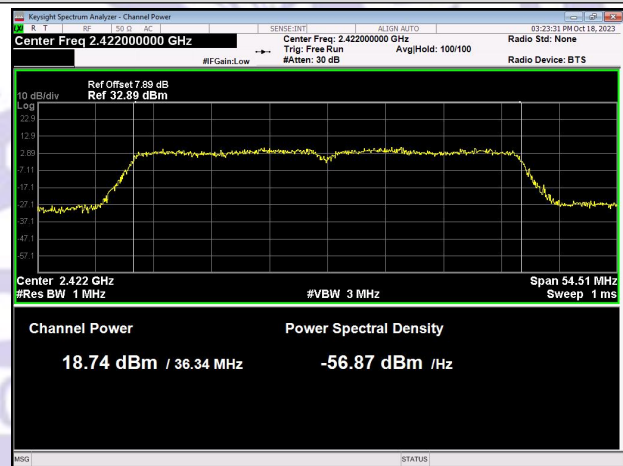
Conducted peak output power  
IEEE 802.11g\_Channel 11\_Antenna 0



Conducted peak output power  
IEEE 802.11n\_20\_Channel 1\_Antenna 0



Conducted peak output power  
IEEE 802.11n\_20\_Channel 6\_Antenna 0

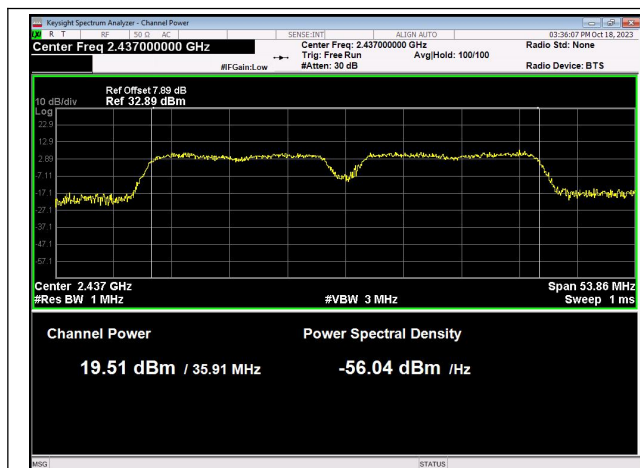


Conducted peak output power  
IEEE 802.11n\_20\_Channel 11\_Antenna 0

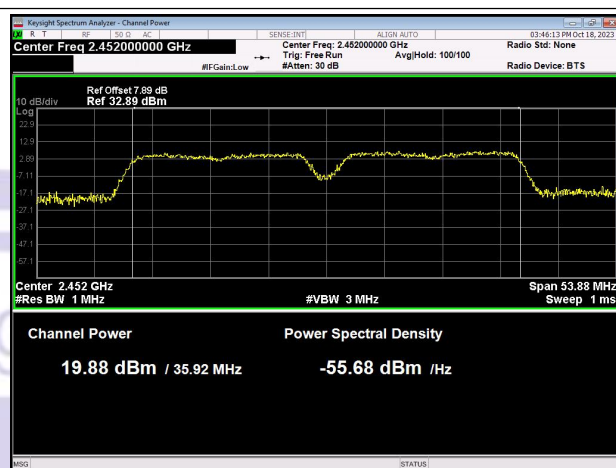


Conducted peak output power  
IEEE 802.11n\_40\_Channel 3\_Antenna 0





Conducted peak output power  
IEEE 802.11n\_40\_Channel 6\_Antenna 0



Conducted peak output power  
IEEE 802.11n\_40\_Channel 9\_Antenna 0



## 10 Power Spectral density

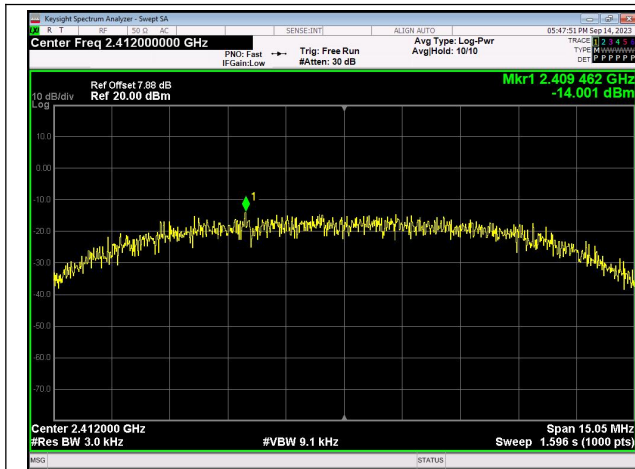
Test Requirement	: FCC CFR47 Part 15 Section 15.247, RSS-247 §5.2
Test Method	: ANSI C63.10:2013
Test Limit	: Regulation 15.247(f) The power spectral density conducted from the intentional radiator to the antenna due to the digital modulation operation of the hybrid system, with the frequency hopping operation turned off, shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

### 10.1 Test Procedure

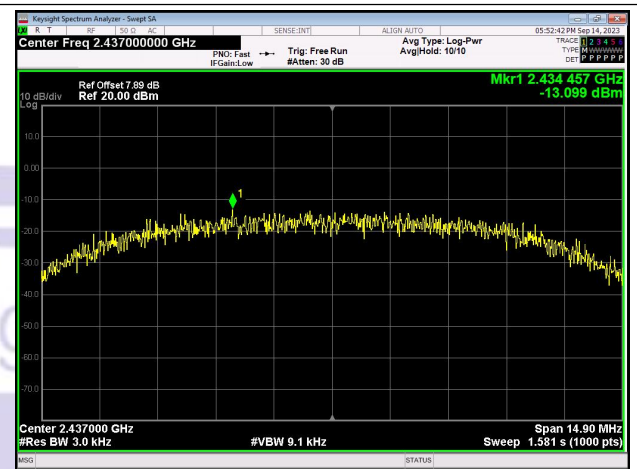
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 3kHz. VBW = 9.1kHz, Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

### 10.2 Test Result

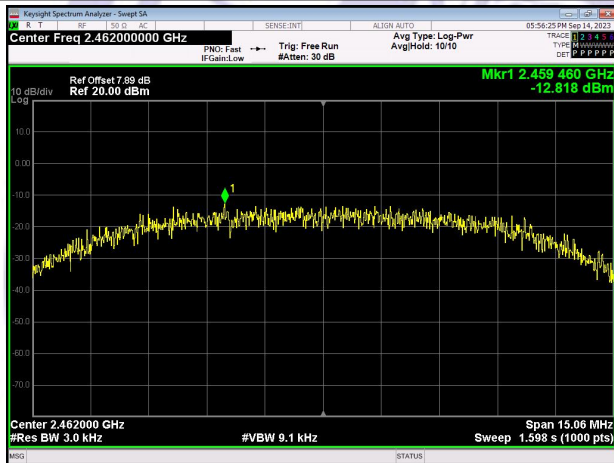
	Power Spectral density (dBm/3kHz)				Limit
	802.11b	802.11g	802.11n20	802.11n40	
Low Channel	-14.001	-13.414	-14.404	-16.801	8dBm/3kHz
Middle Channel	-13.099	-13.855	-13.691	-15.537	8dBm/3kHz
High Channel	-12.818	-12.525	-13.307	-15.426	8dBm/3kHz



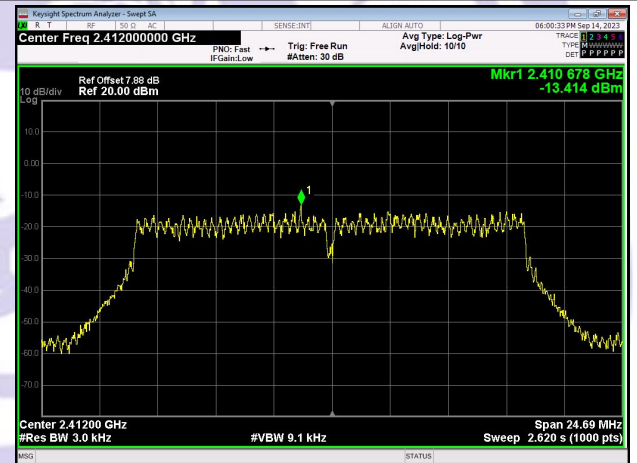
IEEE 802.11b\_Channel 1\_20MHz\_Antenna 0



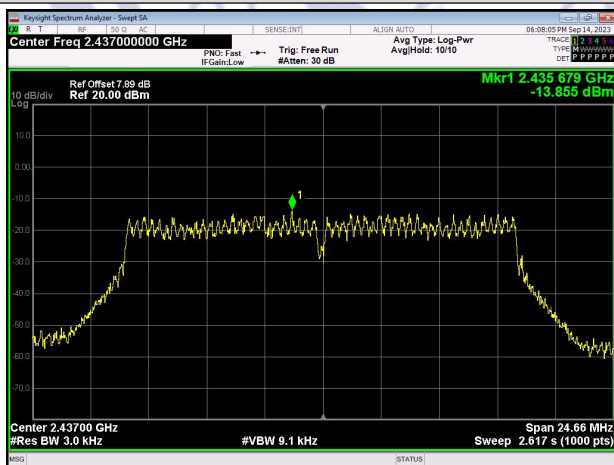
IEEE 802.11b\_Channel 6\_20MHz\_Antenna 0



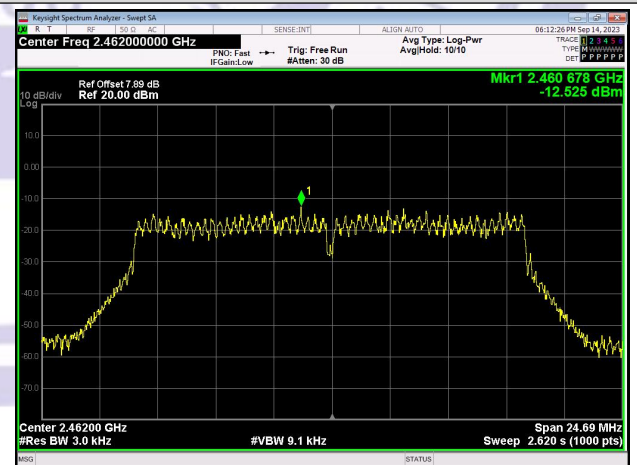
IEEE 802.11b\_Channel 11\_20MHz\_Antenna 0



IEEE 802.11g\_Channel 1\_20MHz\_Antenna 0

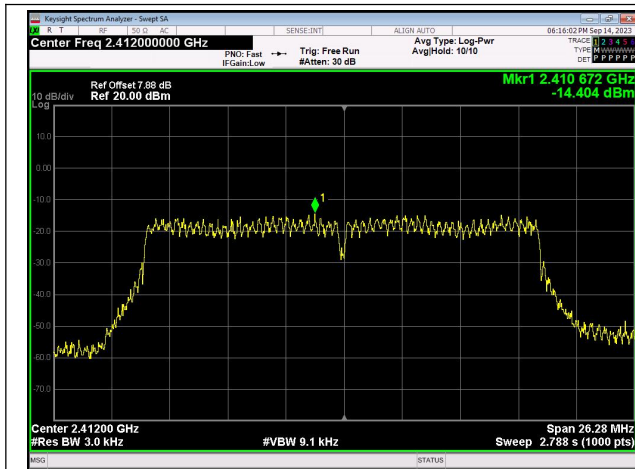


IEEE 802.11g\_Channel 6\_20MHz\_Antenna 0

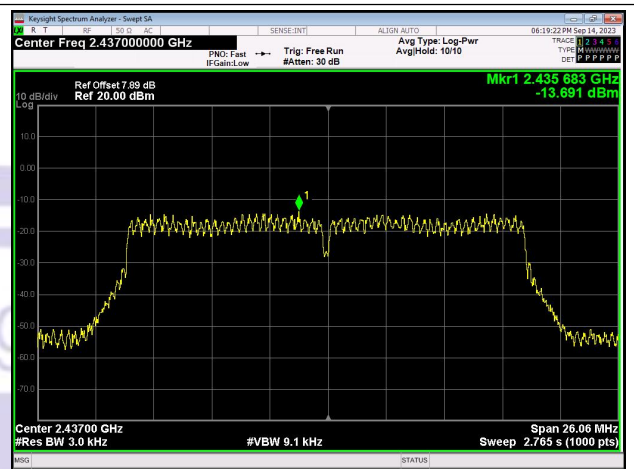


IEEE 802.11g\_Channel 11\_20MHz\_Antenna 0

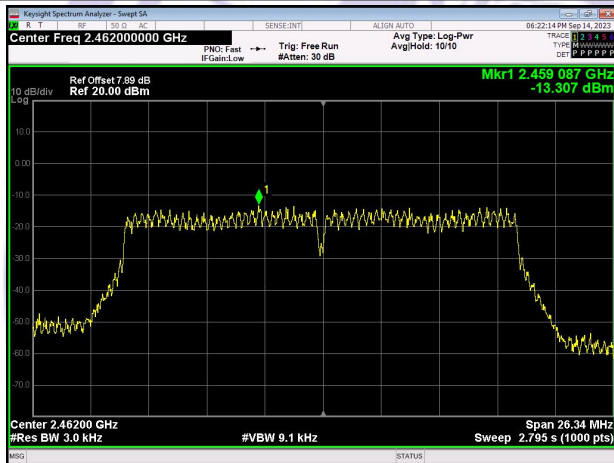




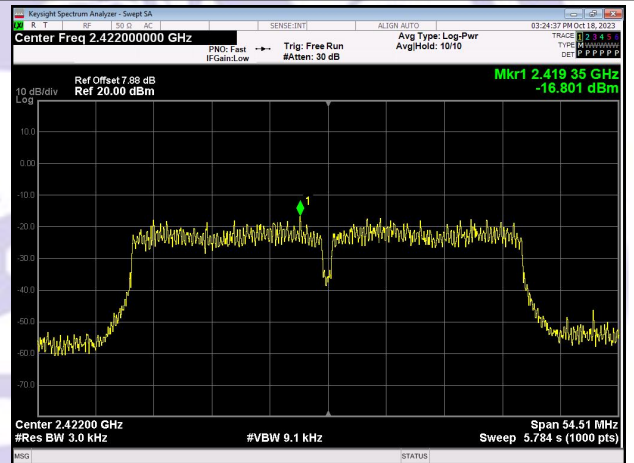
IEEE 802.11n\_Channel 1\_20MHz\_Antenna 0



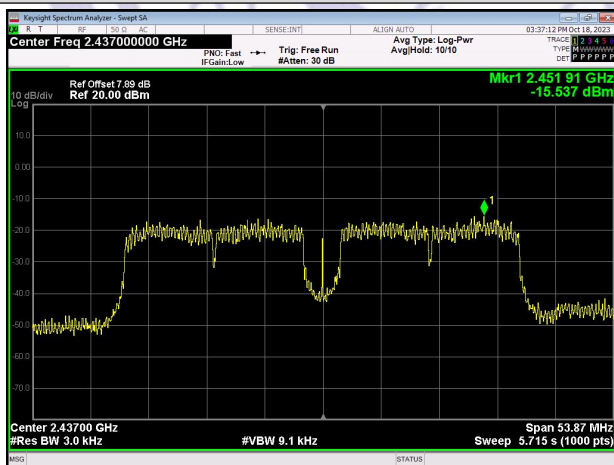
IEEE 802.11n\_Channel 6\_20MHz\_Antenna 0



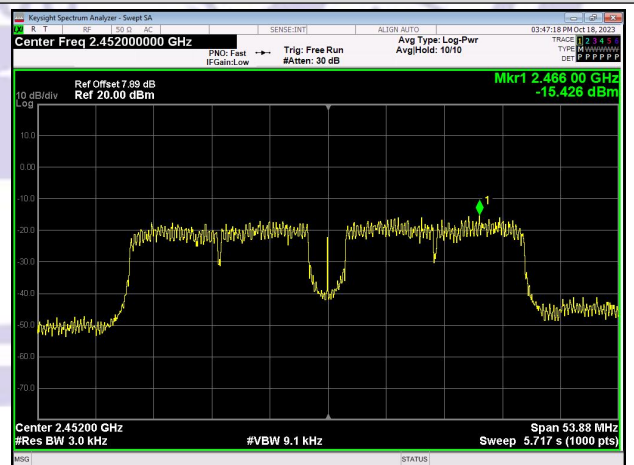
IEEE 802.11n\_Channel 11\_20MHz\_Antenna 0



IEEE 802.11n\_Channel 3\_40MHz\_Antenna 0



IEEE 802.11n\_Channel 6\_40MHz\_Antenna 0



IEEE 802.11n\_Channel 9\_40MHz\_Antenna 0

## 11 Antenna Application

### 11.1 Antenna Requirement

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

According to RSS-GEN section 6.8

The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

### 11.2 Result

The EUT'S antenna, permanent attached antenna, is PCB antenna. The antenna's gain is 3.5 dBi and meets the requirement.

## 12 Test Setup and EUT Photos

Reference to the attachment for details.

\*\*\*\*\*THE END REPORT\*\*\*\*\*

