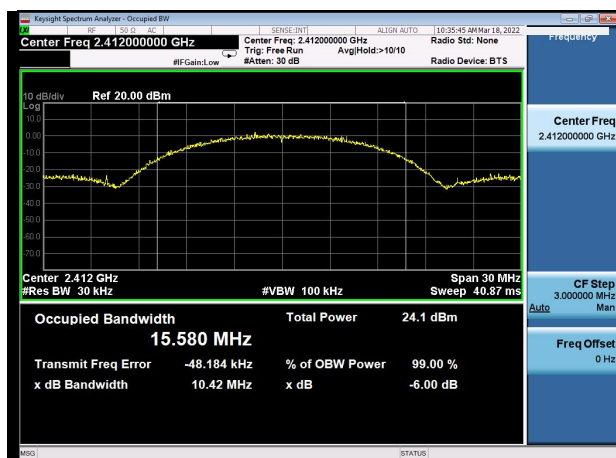


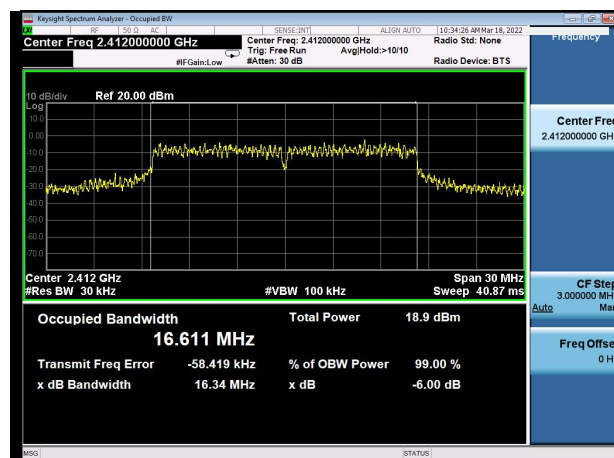


## 99% Bandwidth

802.11b



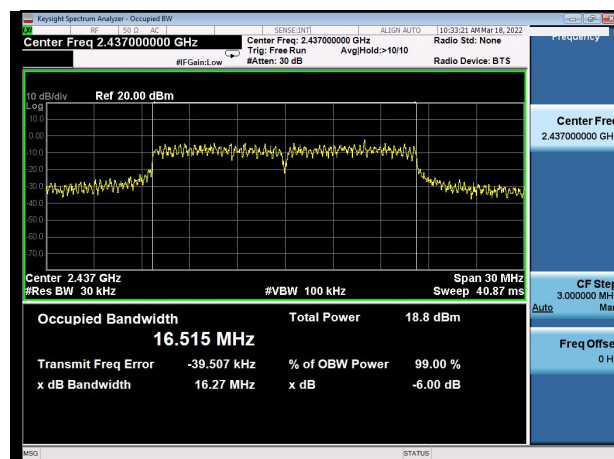
802.11g



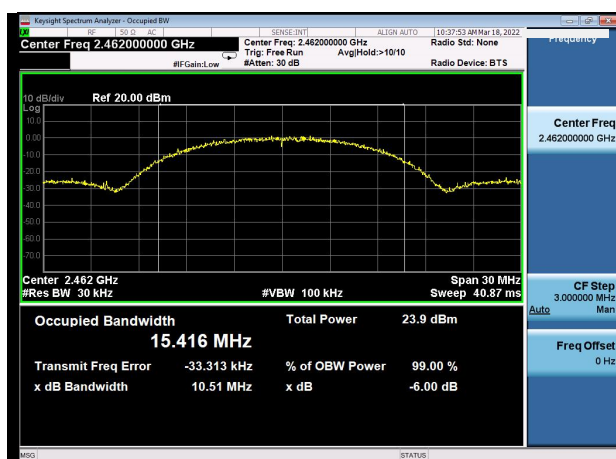
2412MHz



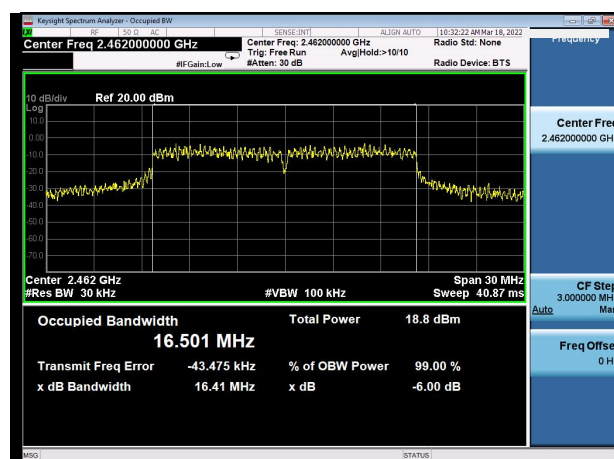
2412MHz



2437MHz



2437MHz



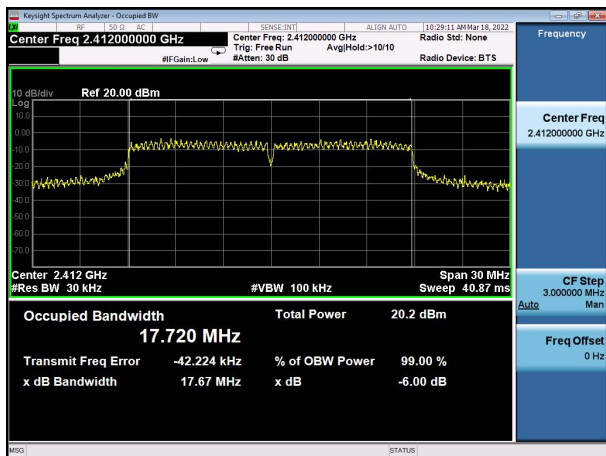
2462MHz

2462MHz

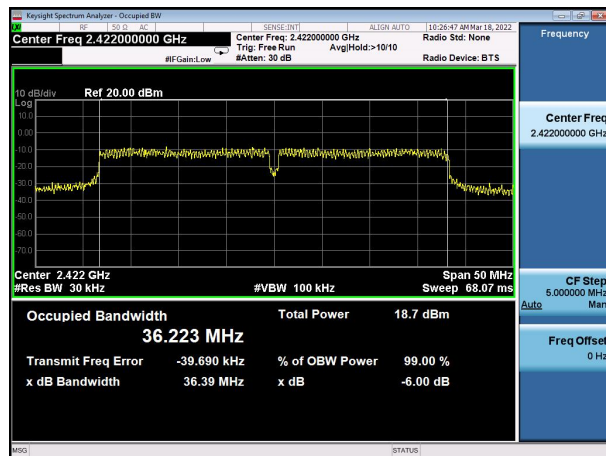


## 99% Bandwidth

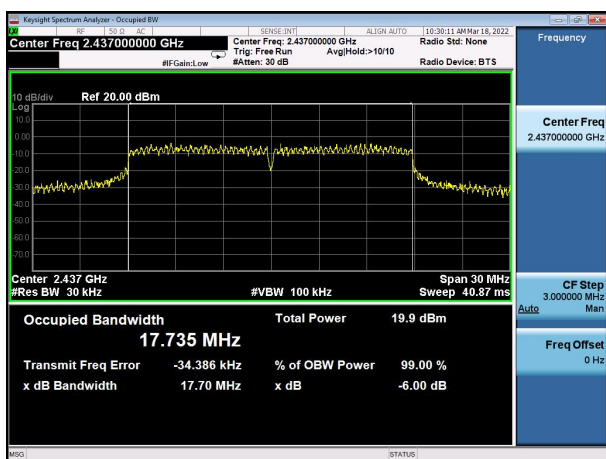
## 802.11n HT20



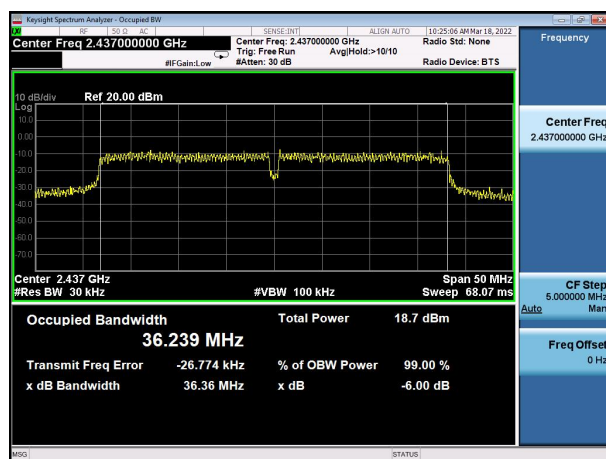
## 802.11n HT40



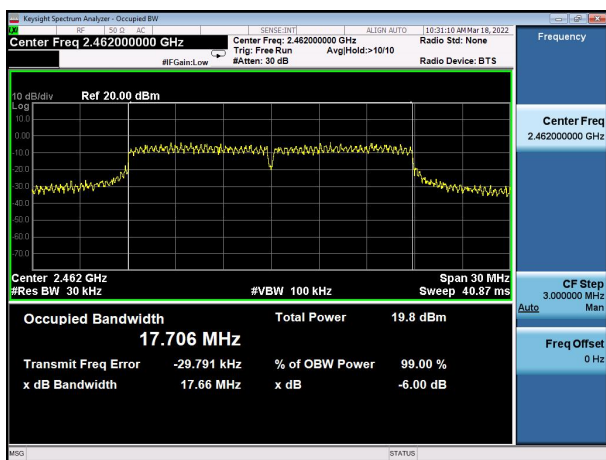
## 2412MHz



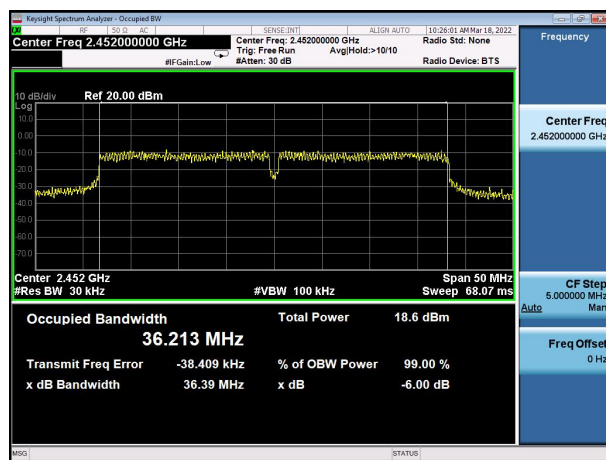
## 2422MHz



## 2437MHz



## 2437MHz



## 2462MHz



## 2452MHz





## 7. OUT OF BAND EMISSIONS TEST

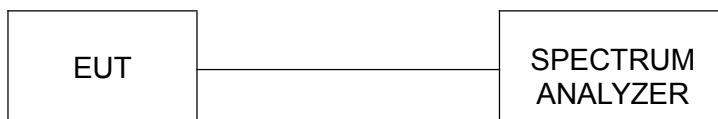
### 7.1 TEST LIMIT

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20dB.

#### 7.1.1 TEST PROCEDURE

1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Set EUT as TX operation and connect directly to the spectrum analyzer.
3. Based on RSS-247 Issue 2 Section 15.247: RBW=100KHz, VBW=300KHz.
4. Set detected by the spectrum analyzer with peak detector.

#### 7.1.2 TEST SETUP



#### 7.1.3 TEST RESULT

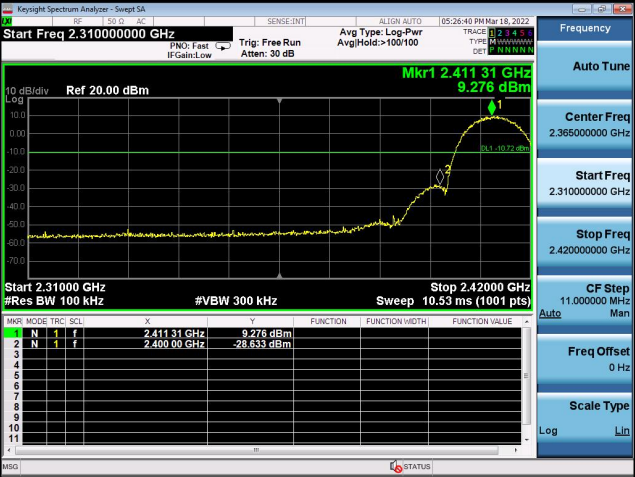

PASS



## 802.11b

Frequency (MHz)	Delta Peak to Band emission (dBc)	Limit (dBc)	Verdict
2400.00	37.909	20	PASS
2483.50	59.006	20	PASS

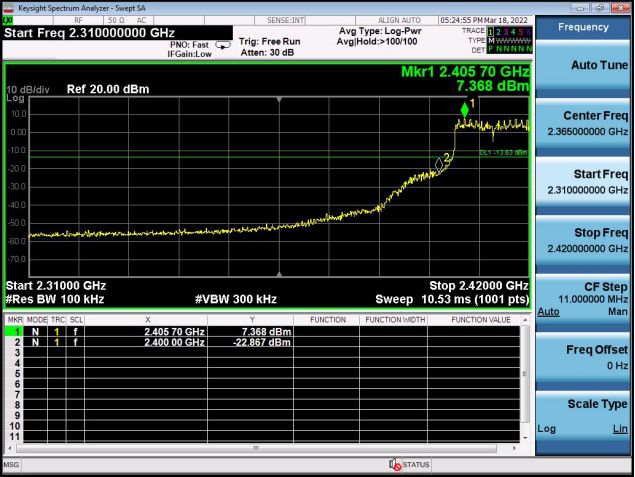

  

	
2412	2462

## 802.11g

Frequency (MHz)	Delta Peak to Band emission (dBc)	Limit (dBc)	Verdict
2400.00	30.235	20	PASS
2483.05	39.418	20	PASS

	
2412	2462



## 802.11n HT20

Frequency (MHz)	Delta Peak to Band emission (dBc)	Limit (dBc)	Verdict
2400.00	30.019	20	PASS
2483.50	40.602	20	PASS

	2412
	2462

## 802.11n HT40

Frequency (MHz)	Delta Peak to Band emission (dBc)	Limit (dBc)	Verdict
2400.00	27.412	20	PASS
2483.50	31.838	20	PASS

	2422
	2452



## 8. SPURIOUS RF CONDUCTED EMISSION

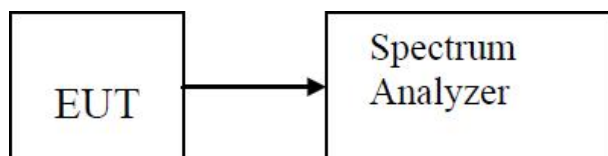
### 8.1 TEST LIMIT

1. Below -20dB of the highest emission level in operating band.
2. Fall in the restricted bands listed in section 15.205. The maximum permitted average field strength is listed in section 15.209.
3. For below 30MHz, For 9KHz-150kHz, 150K-10MHz, We use the RBW 1KHz, 10KHz, So the limit need to be calculated by  $10\lg(BW1/BW2)$ . for example For 9KHz-150kHz, RBW 1KHz, The Limit = the highest emission level -  $20 - 10\lg(100/1) =$  the highest emission level - 40.

#### 8.1.1 TEST PROCEDURE

The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013, For 9KHz-150kHz, Set RBW=1kHz and VBW= 3KHz; For 150KHz-10MHz, Set RBW=10kHz and VBW= 30KHz; For 10MHz-25GHz, Set RBW=100kHz and VBW= 300KHz in order to measure the peak field strength, and measure frequency range from 9KHz to 25GHz.

#### 8.1.2 TEST SETUP



#### 8.1.3 TEST RESULT

PASS

Remark: The measurement frequency range is from 9KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and band edge measurement data and record the worst test data for 802.11b mode in report.





Test Mode:

802.11b

Test channel :

01



Channel 01



30MHz ~3GHz



3GHz~25GHz



Test Mode:

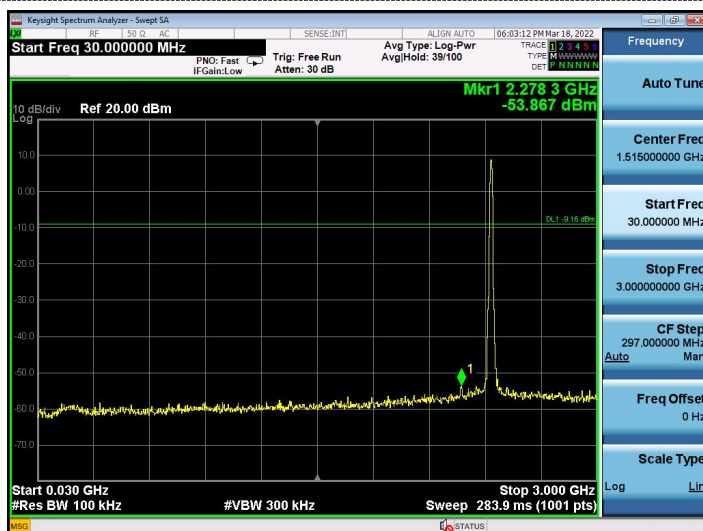
802.11b

Test channel :

06



Channel 06



30MHz ~3GHz



3GHz~25GHz





Test Mode:

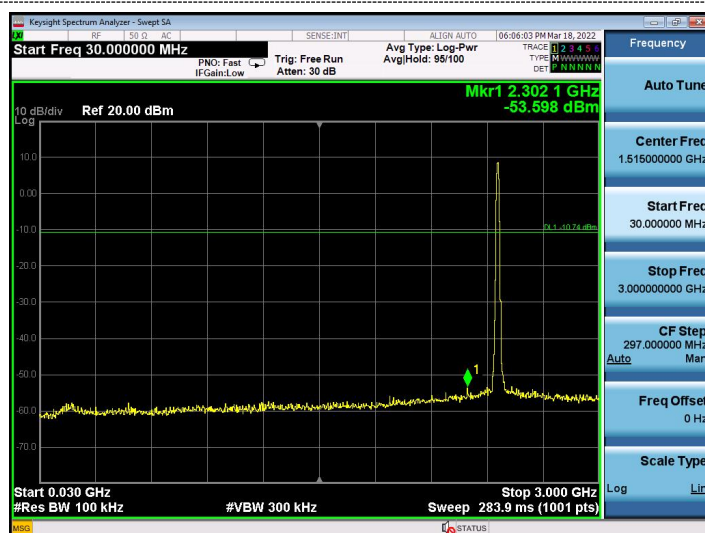
802.11b

Test channel :

11



Channel 11



30MHz ~3GHz



3GHz~25GHz

## 9. ANTENNA REQUIREMENT

### 9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, according to 15.203&RSS-Gen§8.3: 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.

#### 9.1.1 EUT ANTENNA

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





#### 10. TEST SEUUP PHOTO

Reference to the appendix I for details.

#### 11. EUT PHOTO

Reference to the appendix II for details.

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