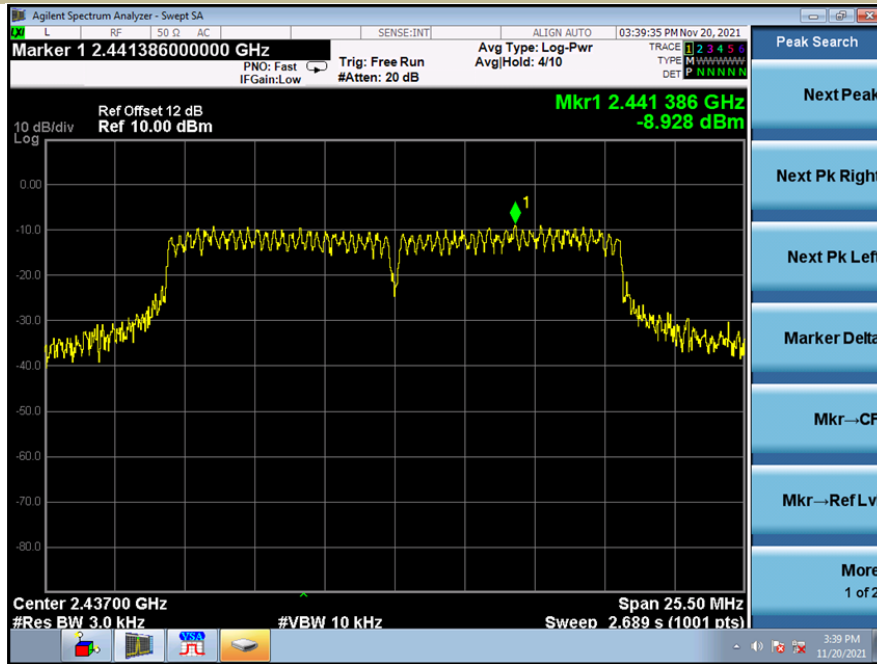
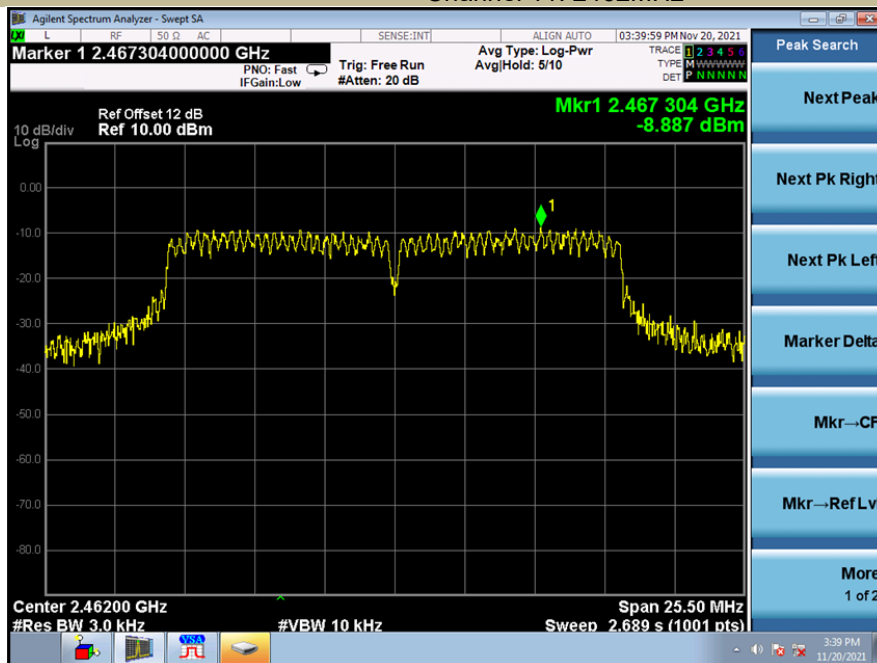


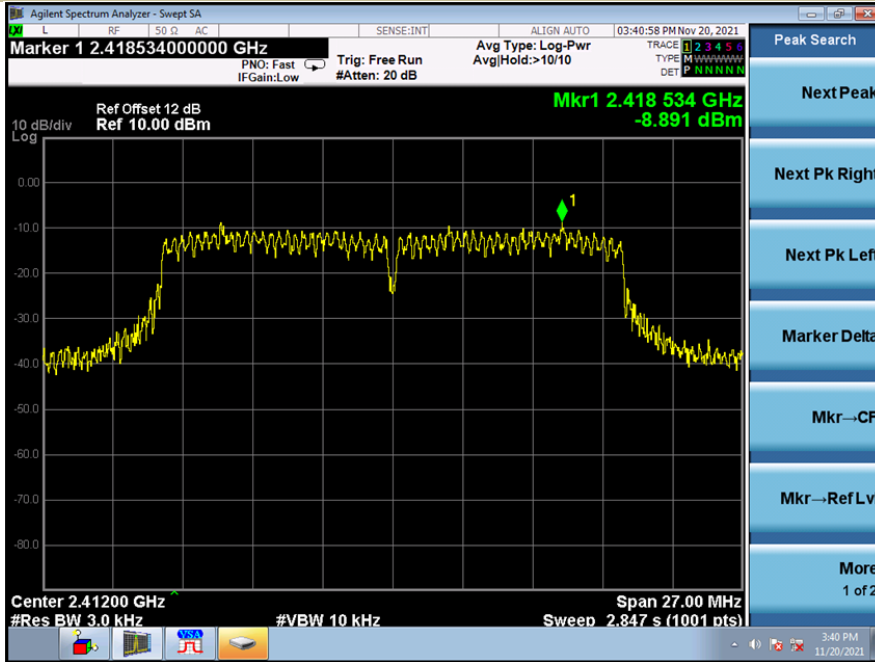
Test Model Power Spectral Density  
802.11g  
Channel 6: 2437MHz



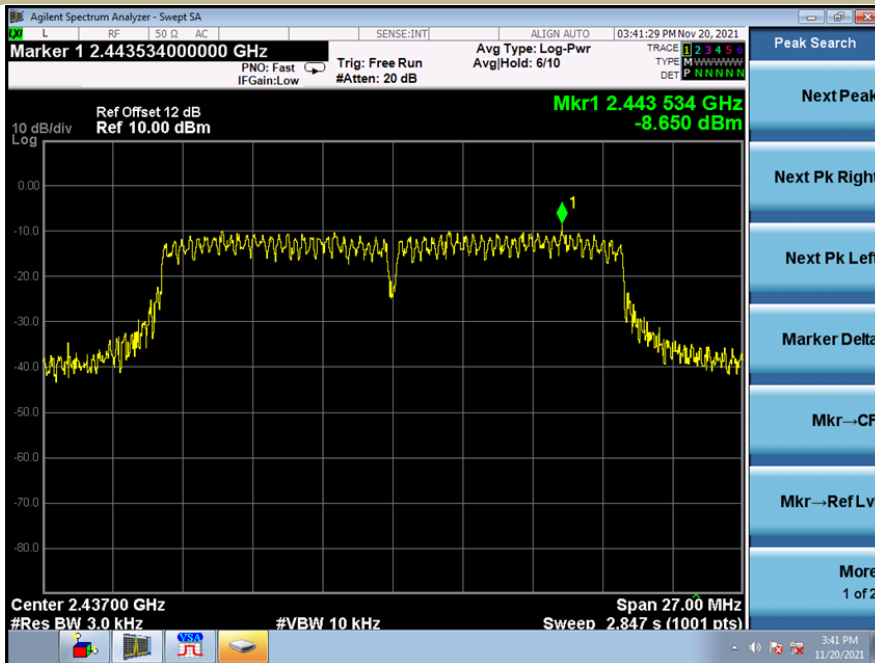
Test Model Power Spectral Density  
802.11g  
Channel 11: 2462MHz



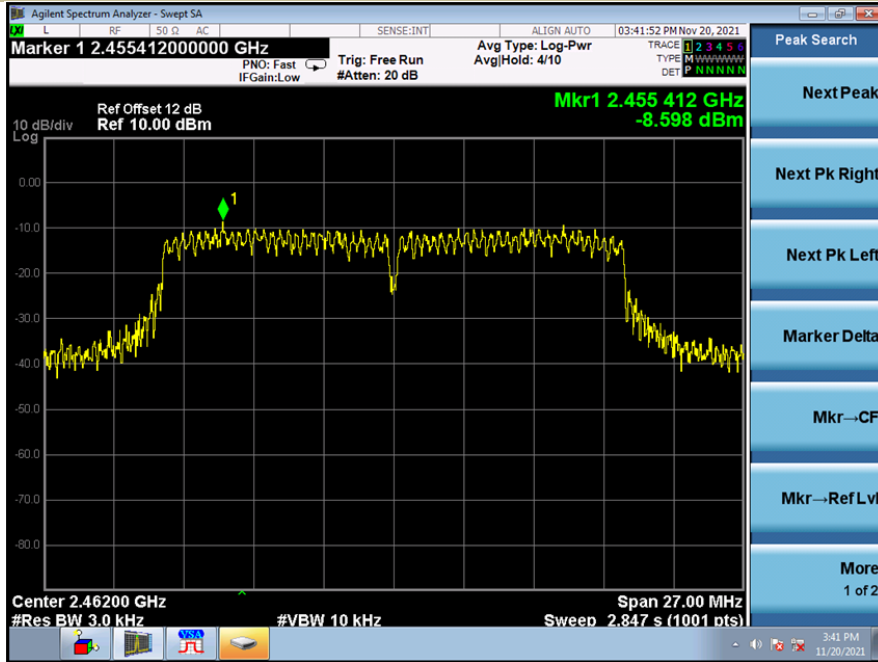
Test Model Power Spectral Density  
802.11n (HT20)  
Channel 1: 2412MHz



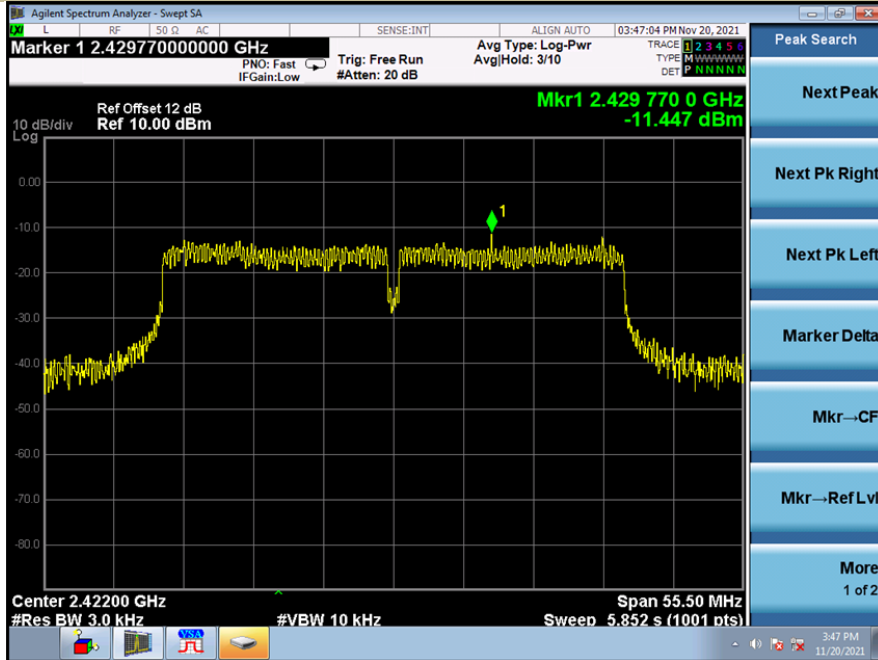
Test Model Power Spectral Density  
802.11n (HT20)  
Channel 6: 2437MHz



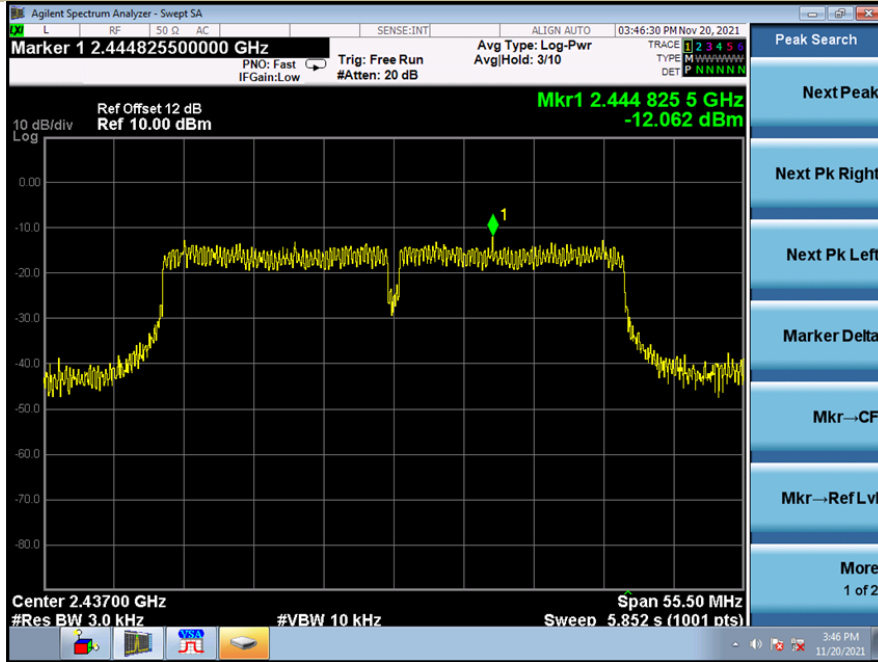
Test Model Power Spectral Density  
802.11n (HT20)  
Channel 11: 2462MHz



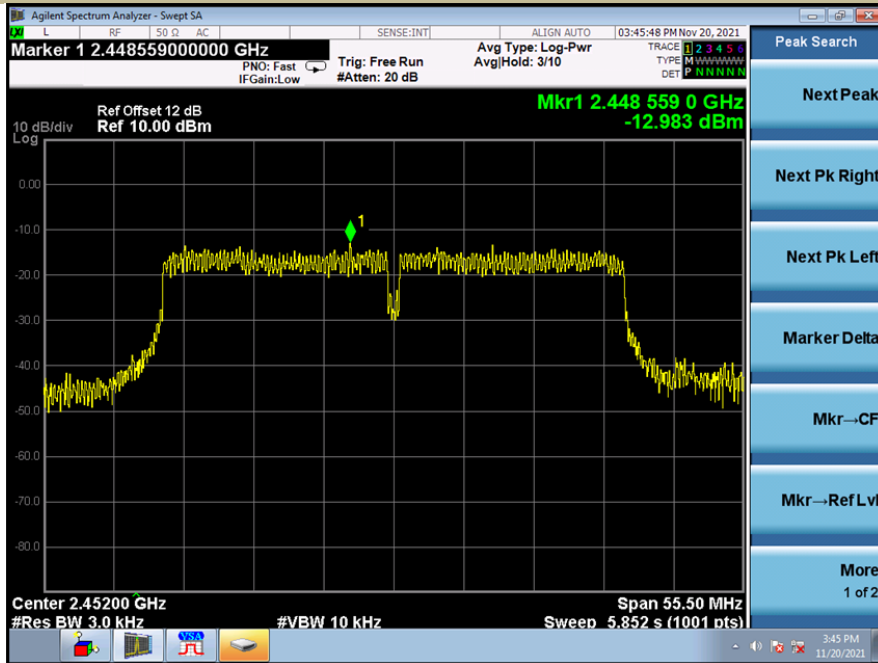
Test Model Power Spectral Density  
802.11n (HT40)  
Channel 3: 2422MHz



Test Model Power Spectral Density  
802.11n (HT40)  
Channel 6: 2437MHz



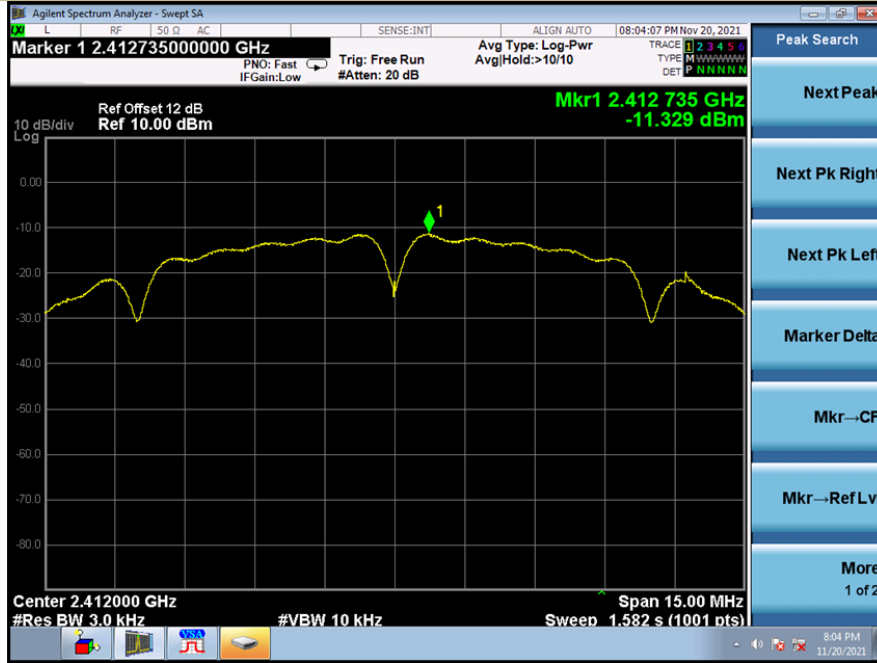
Test Model Power Spectral Density  
802.11n (HT40)  
Channel 9: 2452MHz



Ant.1

Test Model

Power Spectral Density  
802.11b  
Channel 1: 2412MHz



Test Model

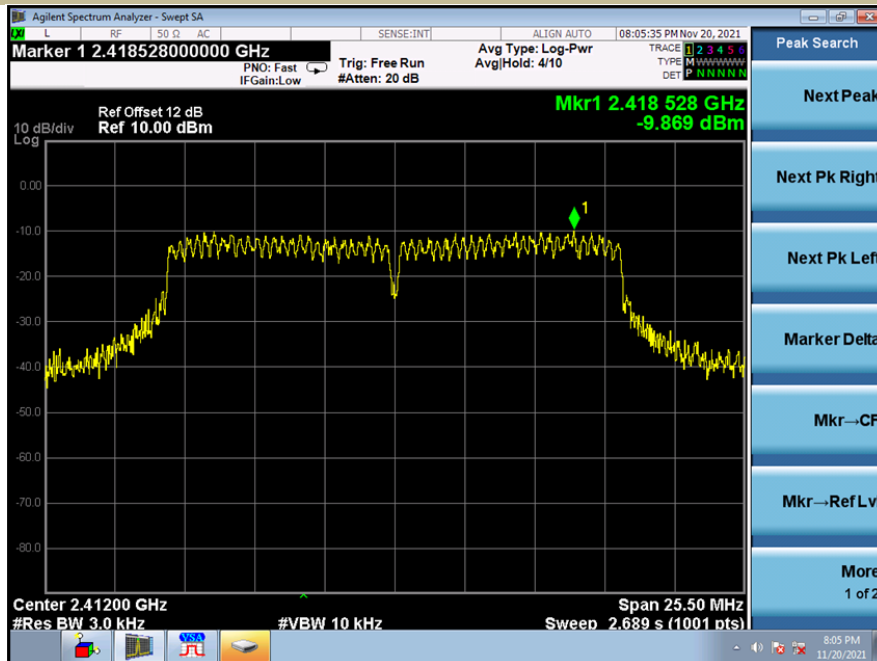
Power Spectral Density  
802.11b  
Channel 6: 2437MHz



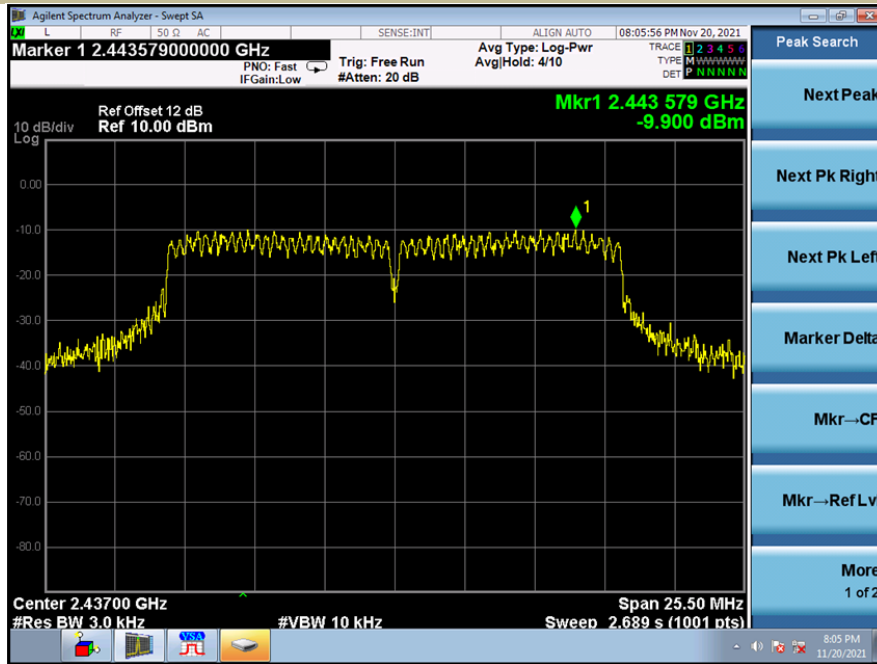
Test Model Power Spectral Density  
802.11b  
Channel 11: 2462MHz



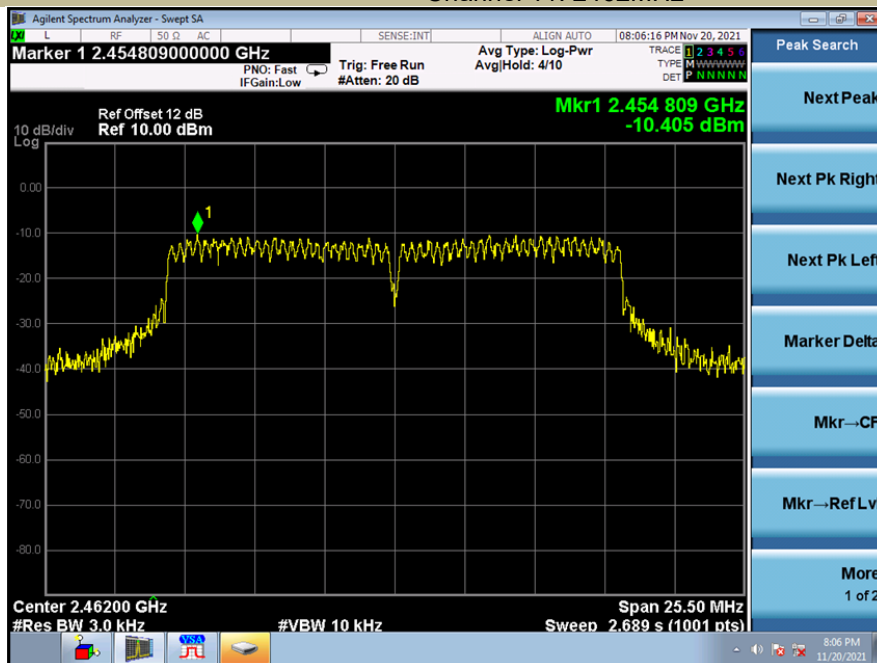
Test Model Power Spectral Density  
802.11g  
Channel 1: 2412MHz



Test Model Power Spectral Density  
802.11g  
Channel 6: 2437MHz

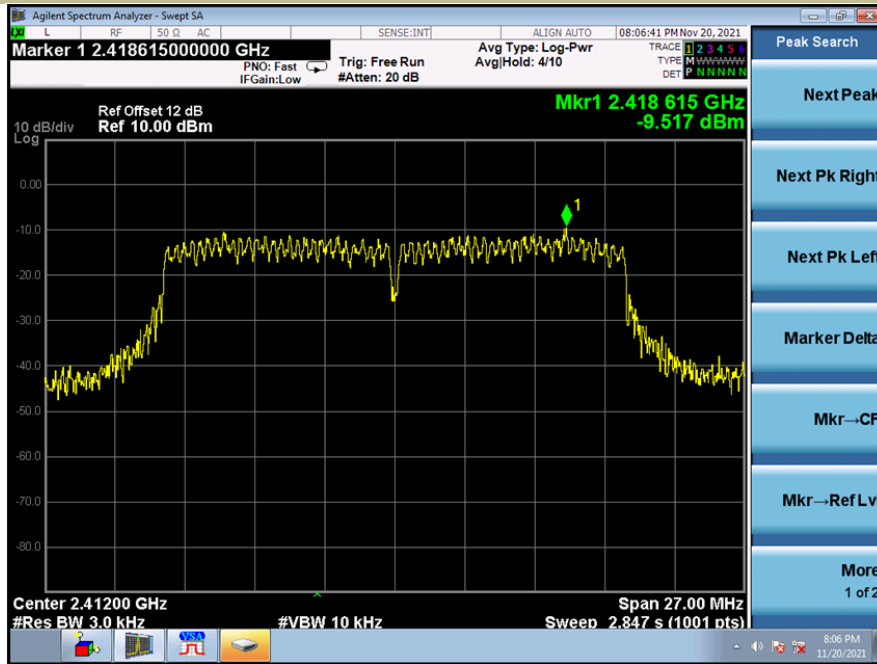


Test Model Power Spectral Density  
802.11g  
Channel 11: 2462MHz

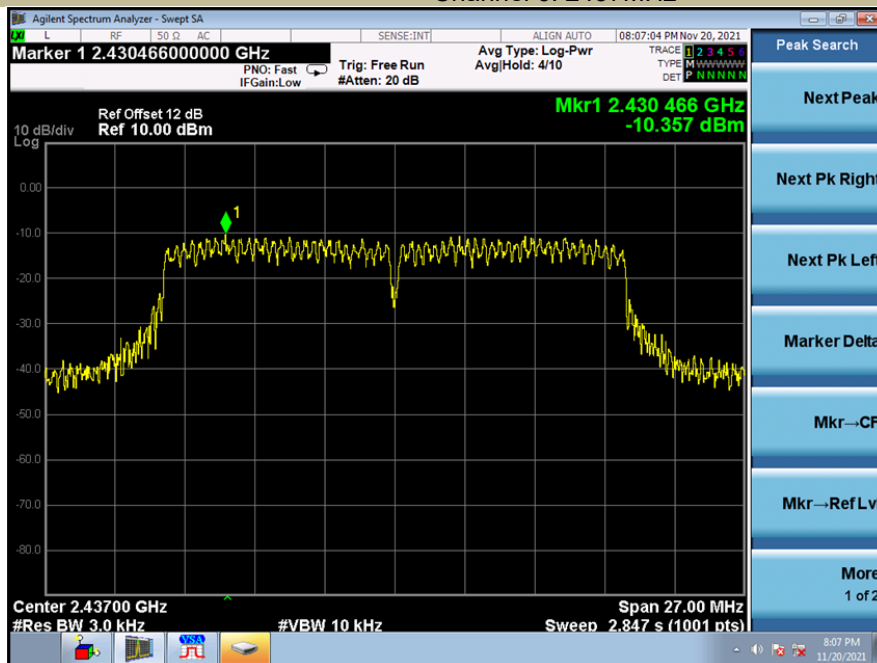




Test Model Power Spectral Density  
802.11n (HT20)  
Channel 1: 2412MHz

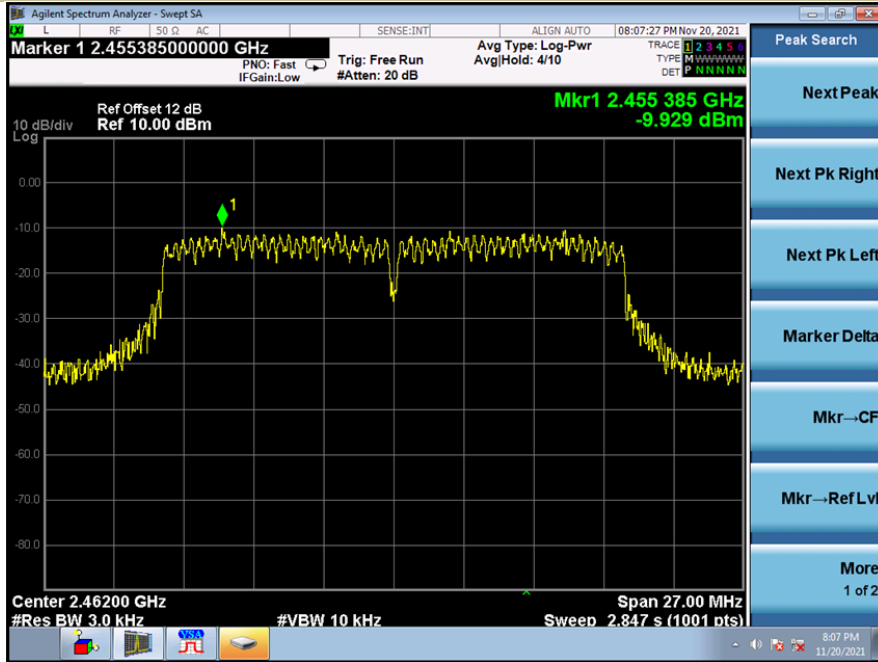


Test Model Power Spectral Density  
802.11n (HT20)  
Channel 6: 2437MHz

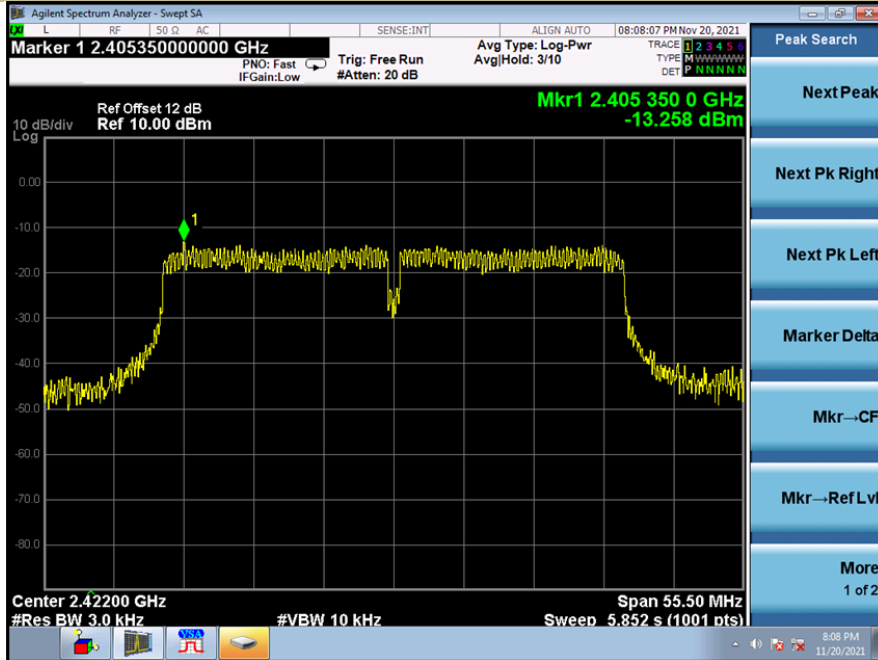




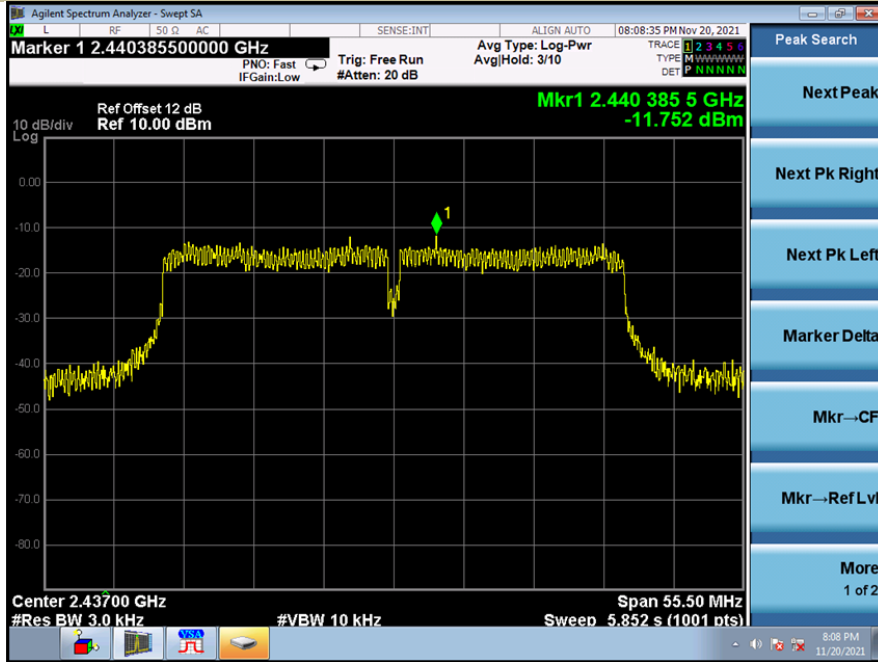
Test Model Power Spectral Density  
802.11n (HT20)  
Channel 11: 2462MHz



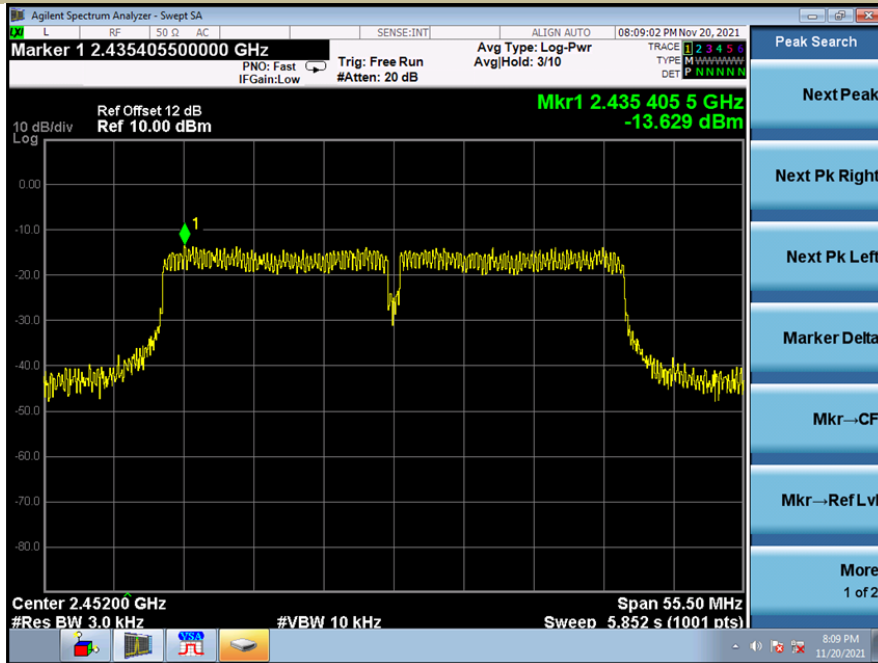
Test Model Power Spectral Density  
802.11n (HT40)  
Channel 3: 2422MHz



Test Model Power Spectral Density  
802.11n (HT40)  
Channel 6: 2437MHz



Test Model Power Spectral Density  
802.11n (HT40)  
Channel 9: 2452MHz



## 8.4 UNWANTED EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS

### 8.4.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 Meas Guidance v05r02

### 8.4.2 Conformance Limit

According to FCC Part 15.247(d):

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 20 dB.

### 8.4.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

### 8.4.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

#### ■ Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DTS channel center frequency.

Set the span to  $\geq 1.5$  times the DTS bandwidth.

Set the RBW = 100 kHz.

Set the VBW  $\geq 3 \times$  RBW.

Set Detector = peak.

Set Sweep time = auto couple.

Set Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum PSD level.

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

#### ■ Emission level measurement

Set the center frequency and span to encompass frequency range to be measured.

Set the RBW = 100 kHz.

Set the VBW = 300 kHz.

Set Detector = peak

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements. Report the three highest emissions relative to the limit.

### 8.4.5 Test Results

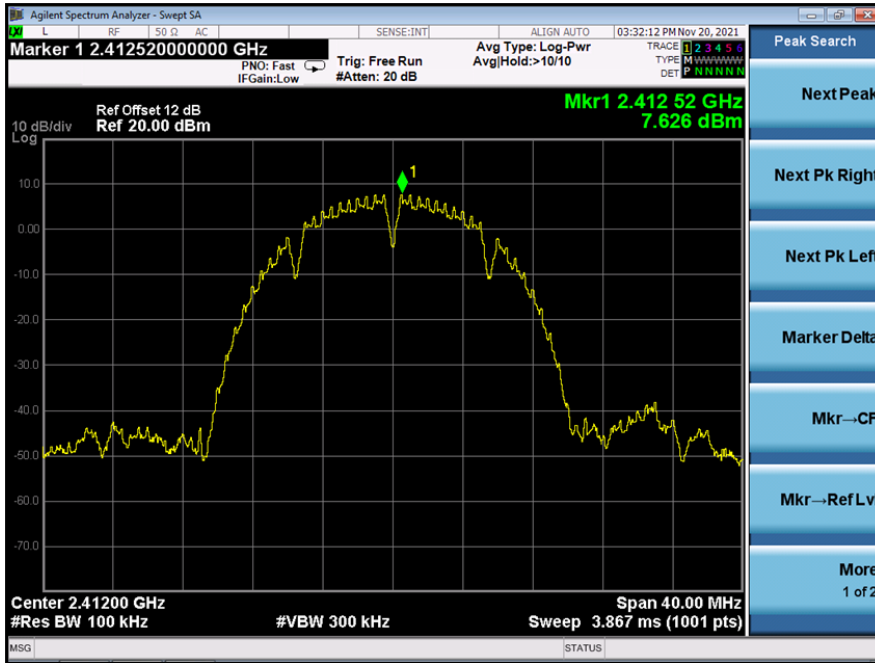
1T1R- Antenna 0

All modes 2.4G 802.11b/g/n have been tested, and the worst result 802.11g recorded was report as below:

PSD(Power Spectral Density ) RBW=100kHz

Test Model    802.11b    802.11g    802.11n(HT20)    802.11n(HT40)

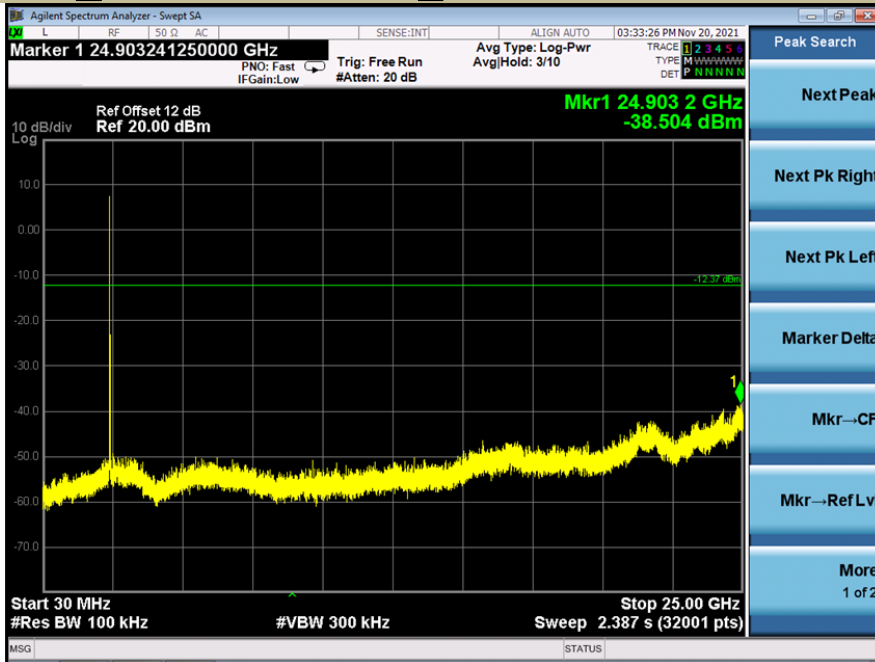
Channel 1: 2412MHz    Channel 3: 2422MHz



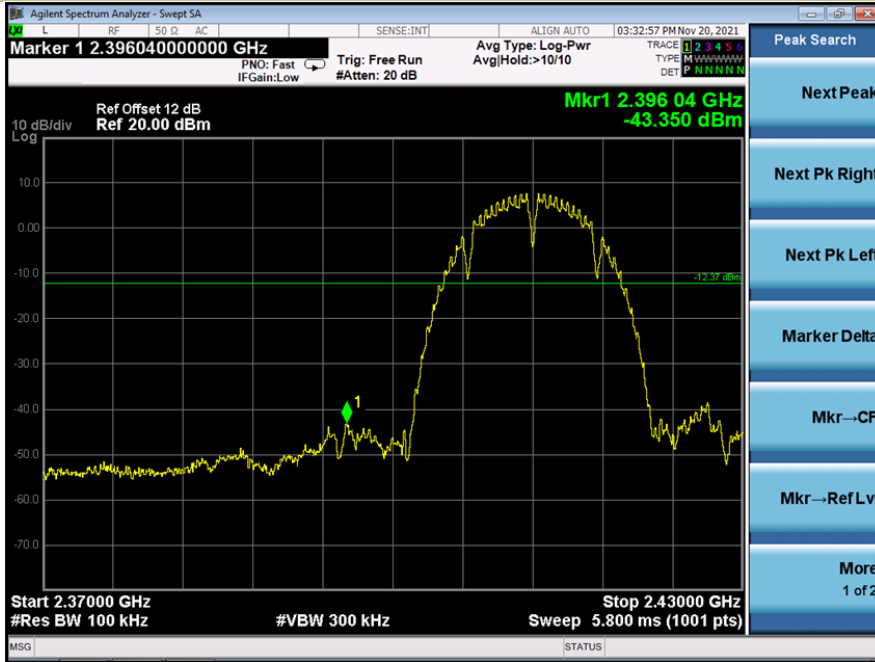
Unwanted Emissions in non-restricted frequency bands

Test Model    802.11b    802.11g    802.11n(HT20)    802.11n(HT40)

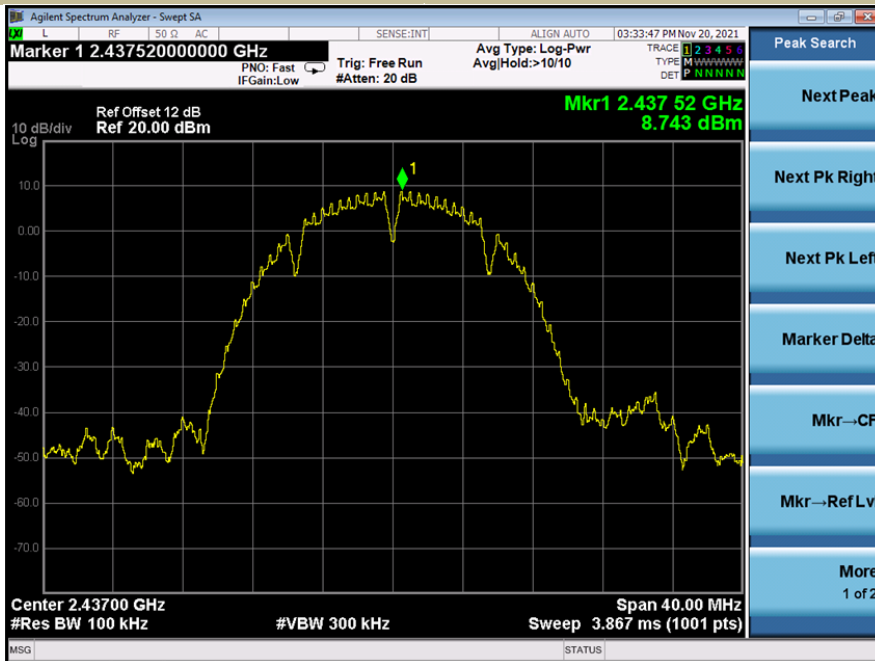
Channel 1: 2412MHz    Channel 3: 2422MHz



Test Model  802.11b  802.11g  802.11n(HT20)  802.11n(HT40)  
 Band edge  
 Channel 1: 2412MHz  Channel 3: 2422MHz



Test Model  802.11b  802.11g  802.11n(HT20)  802.11n(HT40)  
 PSD(Power Spectral Density ) RBW=100kHz  
 Channel 6: 2437MHz



Unwanted Emissions In Non-Restricted Frequency Bands

Test Model    802.11b    802.11g    802.11n(HT20)    802.11n(HT40)

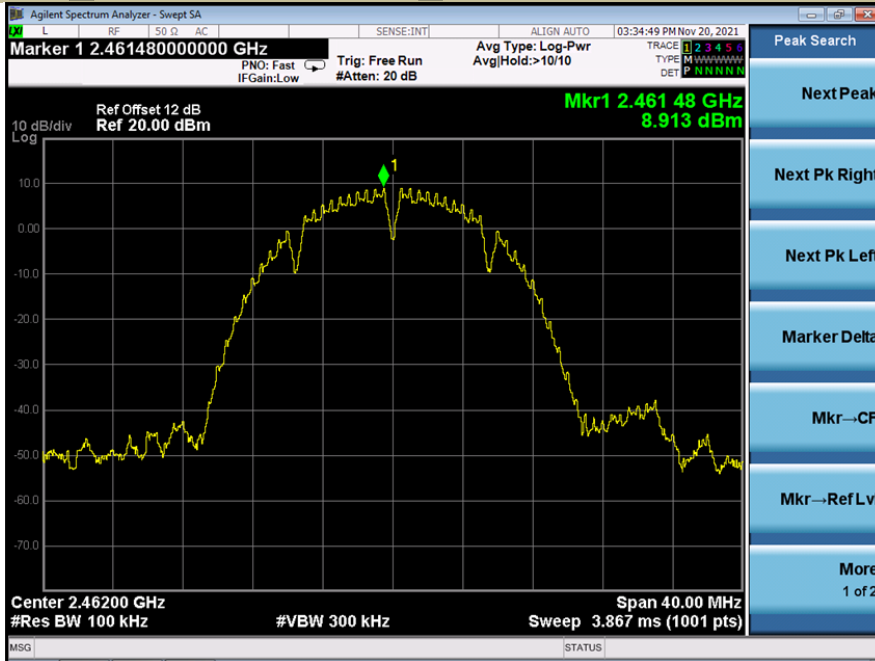
Channel 6: 2437MHz



PSD(Power Spectral Density ) RBW=100kHz

Test Model    802.11b    802.11g    802.11n(HT20)    802.11n(HT40)

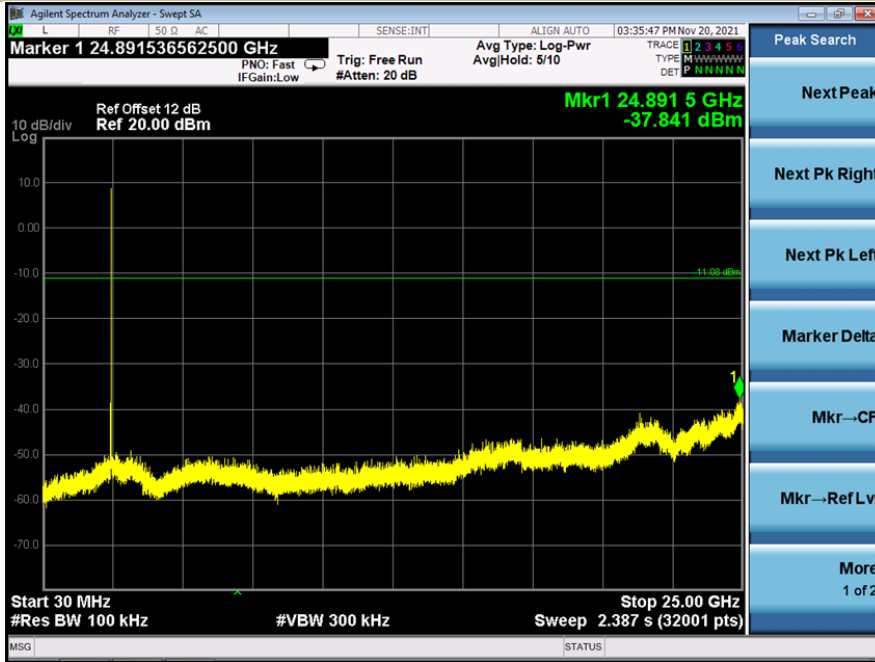
Channel 11: 2462MHz    Channel 9: 2452MHz



Unwanted Emissions In Non-Restricted Frequency Bands

Test Model     802.11b     802.11g     802.11n(HT20)     802.11n(HT40)

Channel 11: 2462MHz     Channel 9: 2452MHz



Band edge

Test Model     802.11b     802.11g     802.11n(HT20)     802.11n(HT40)

Channel 11: 2462MHz     Channel 9: 2452MHz





Antenna 1

All modes 2.4G 802.11b/g/n have been tested, and the worst result 802.11b recorded was report as below:

PSD(Power Spectral Density ) RBW=100kHz

Test Model       802.11b       802.11g       802.11n(HT20)       802.11n(HT40)

Channel 1: 2412MHz       Channel 3: 2422MHz



Unwanted Emissions in non-restricted frequency bands

Test Model       802.11b       802.11g       802.11n(HT20)       802.11n(HT40)

Channel 1: 2412MHz       Channel 3: 2422MHz

