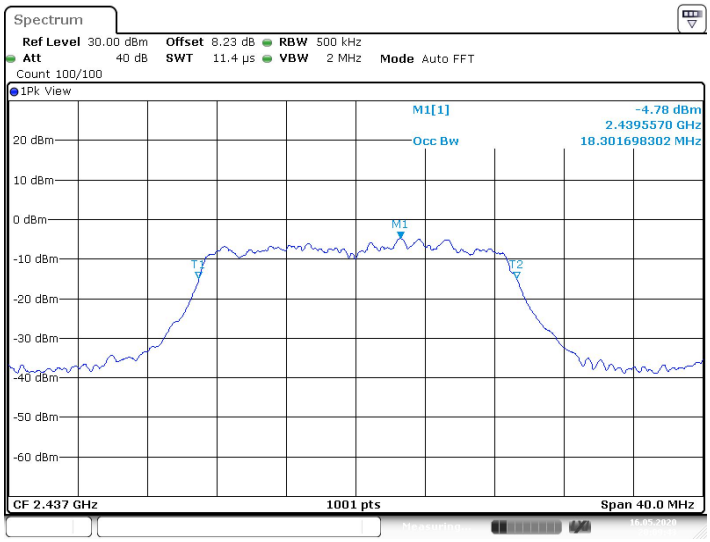
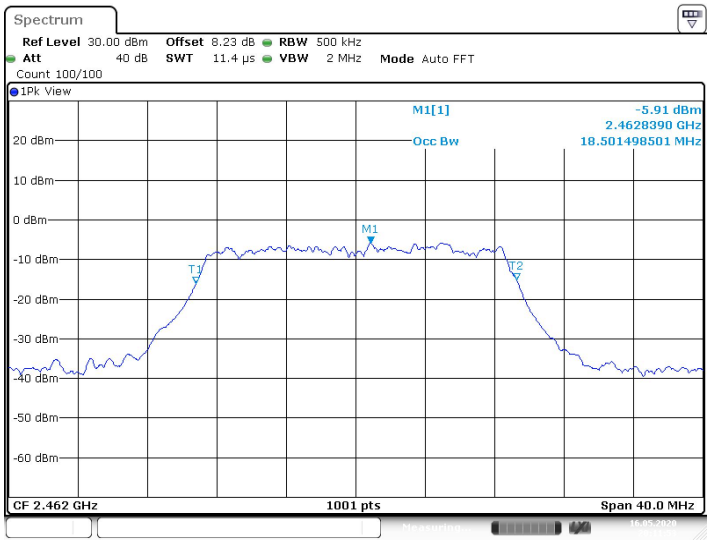
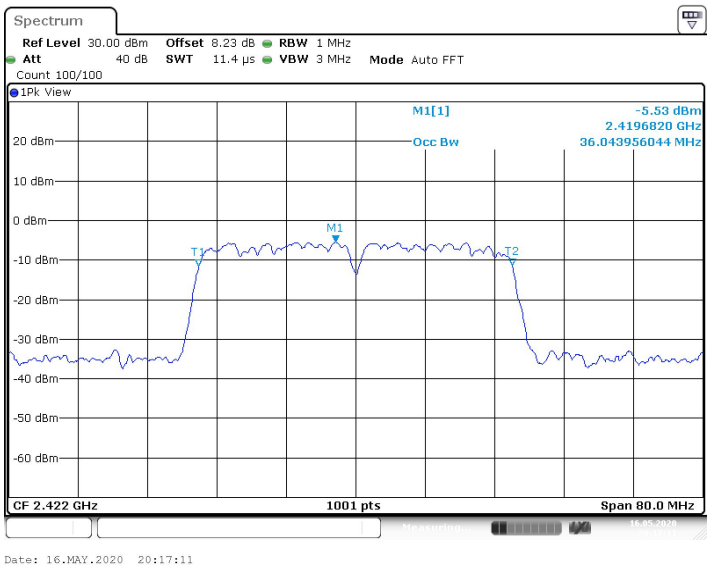
2437 MHz



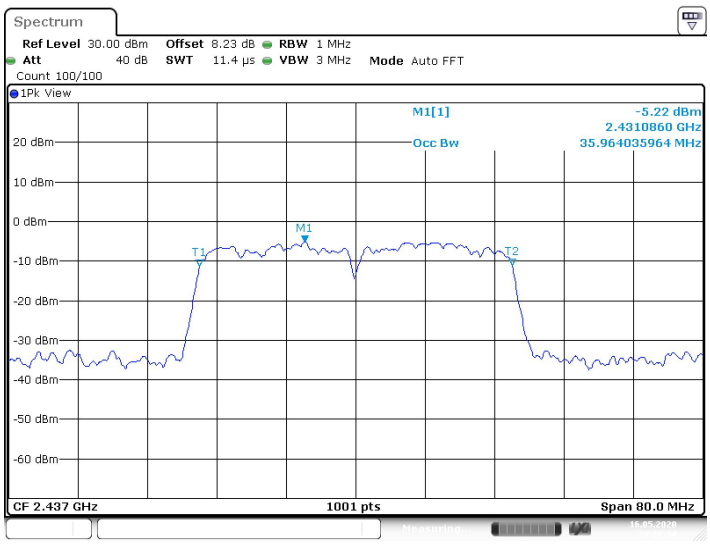
2462 MHz



Test Mode:	802.11n(HT40) Mode	
Channel frequency (MHz)	**99% Bandwidth (MHz)**	**Limit (MHz)**
2422	36.044	>=0.5
2437	35.964	
2452	36.044	
2422 MHz		

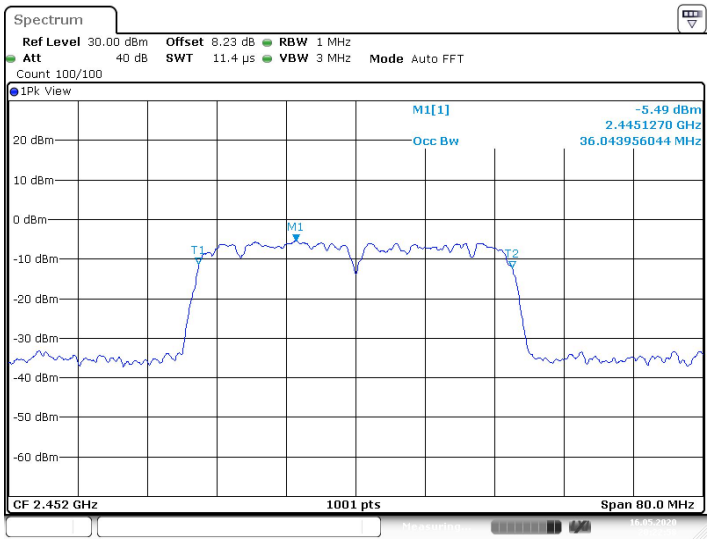


2437 MHz



Date: 16.MAY.2020 20:20:54

2452 MHz



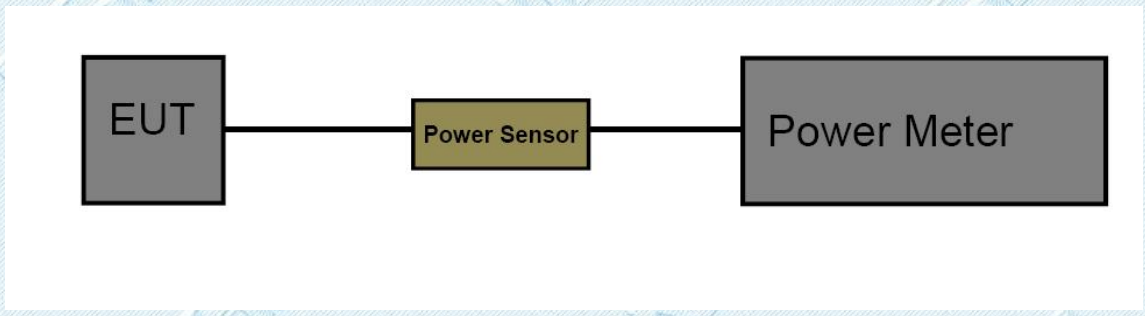
Date: 16.MAY.2020 20:22:57

3.4. Peak Output Power

Limit

Test Item	Limit	Frequency Range(MHz)
Peak Output Power	1 Watt or 30 dBm	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The measurement is according to section 9.1.2 of KDB 558074 D01 15.247 DTS Meas Guidance v05.
3. Spectrum Setting:
   Set analyser center frequency to DTS channel center frequency.
   Set the RBW to: 1MHz
   Set the VBW to: 3MHz
   Detector: peak
   Sweep time: auto
   Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.
4. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

Test Mode

Please refer to the clause 2.3

Test Result

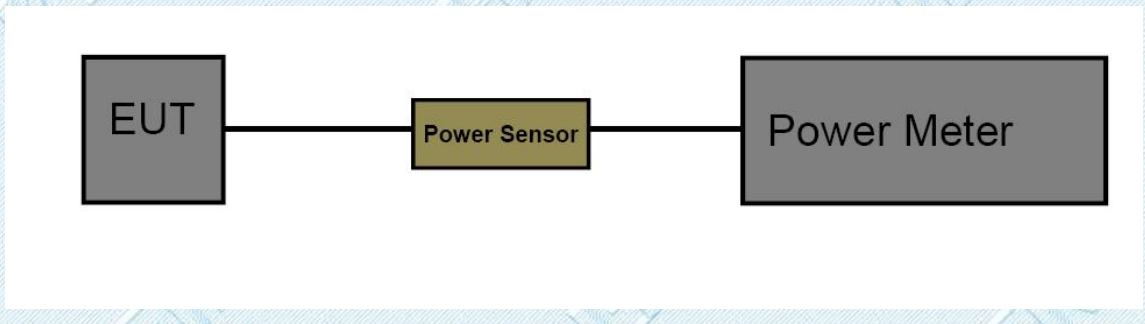
Mode	Channel frequency (MHz)	Test Result (dBm)	Limit (dBm)
802.11b	2412	13.73	30
	2437	13.69	
	2462	13.49	
802.11g	2412	11.35	
	2437	11.34	
	2462	11.23	
802.11n (HT20)	2412	9.27	
	2437	9.27	
	2462	9.19	
802.11n （HT40）	2422	9.58	
	2437	9.42	
	2452	9.39	
Result： PASS			

3.5. Power Spectral Density

Limit

FCC Part 15 Subpart C(15.247)		
Test Item	**Limit**	**Frequency Range(MHz)**
Power Spectral Density	8dBm(in any 3 kHz)	2400~2483.5

Test Configuration



Test Procedure

1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above.
2. The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to section 10.2 of KDB 558074 D01 15.247 DTS Meas Guidance v05.
3. Spectrum Setting:
   Set analyser center frequency to DTS channel center frequency.
   Set the span to 1.5 times the DTS bandwidth.
   Set the RBW to: 10 kHz
   Set the VBW to: 30 kHz
   Detector: peak
   Sweep time: auto
   Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

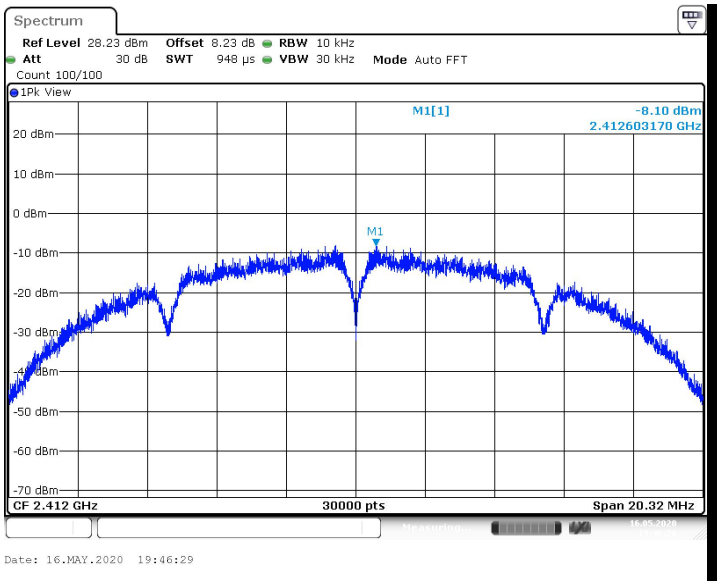
Please refer to the clause 2.3

Test Result

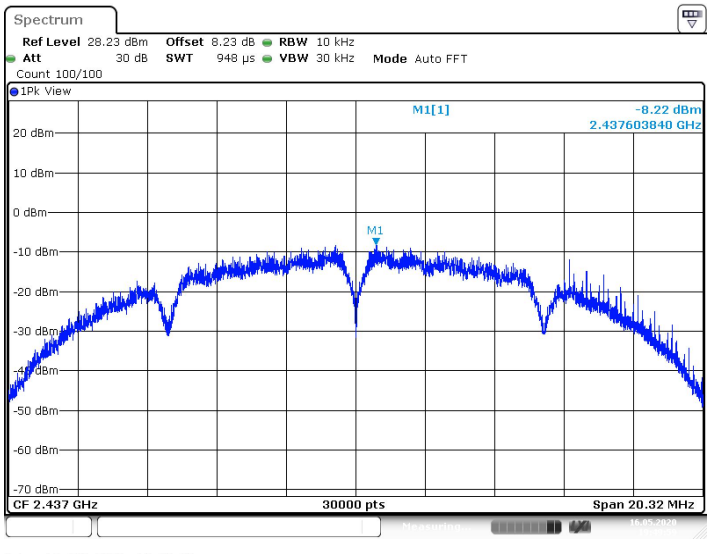
Note:

Power Density(dBm/3kHz)=Power Density(dBm/10kHz)-10*Log(10/3)

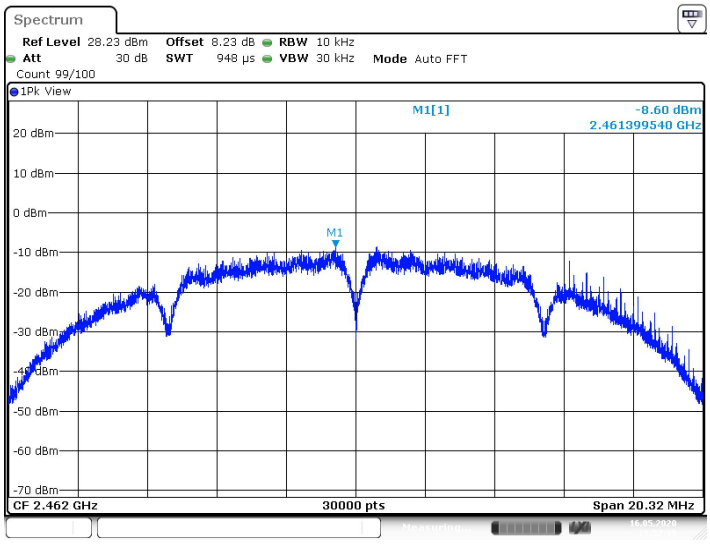
Test Mode:	802.11b Mode		
Channel Frequency (MHz)	**Power Density (dBm/10kHz)**	**Power Density (dBm/3kHz)**	**Limit (dBm)**
2412	-8.10	-13.33	8dBm/3kHz
2437	-8.22	-13.45	
2462	-8.60	-13.83	
2412 MHz			



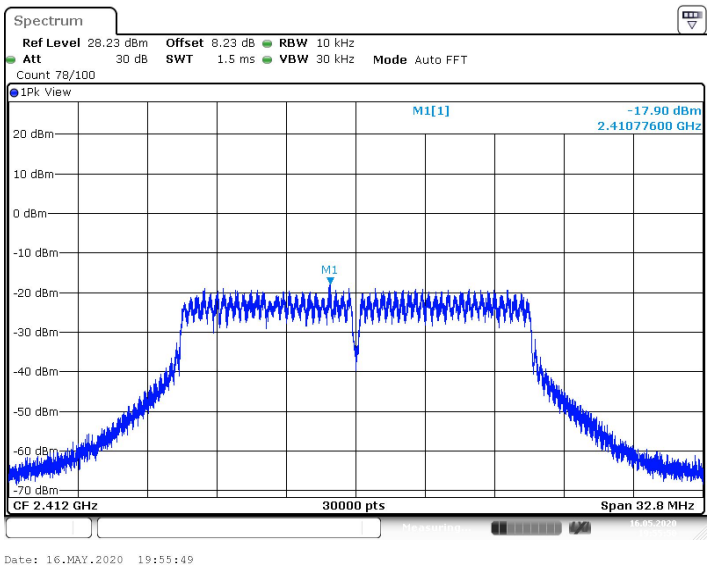
2437 MHz



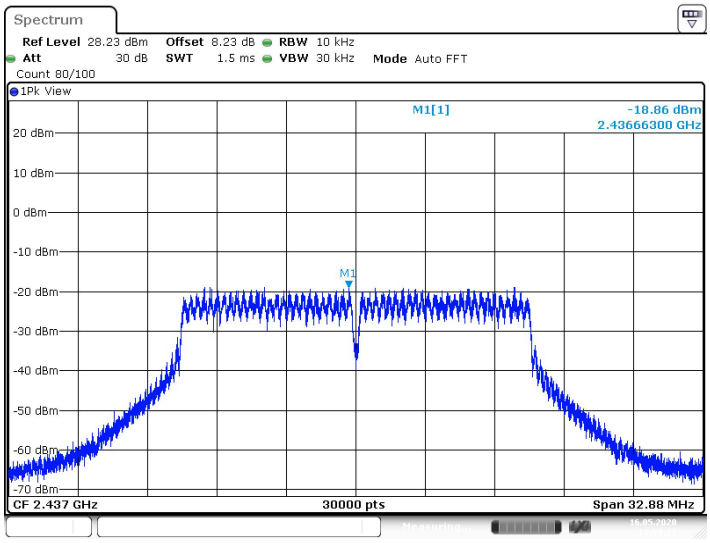
2462 MHz



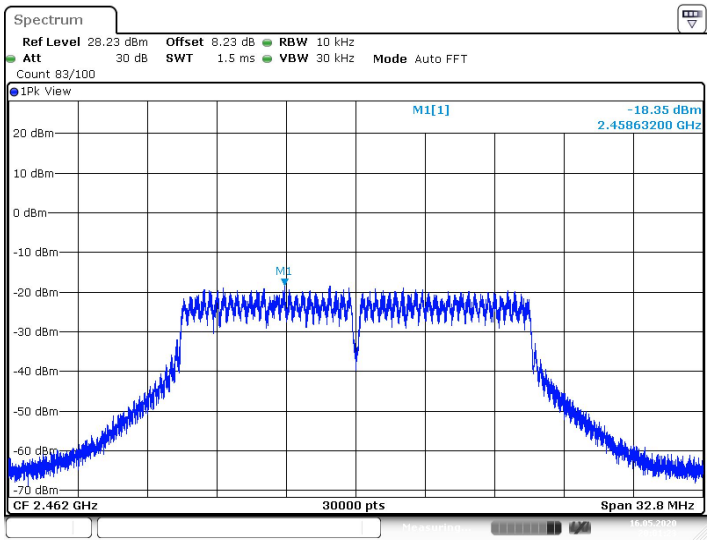
Test Mode:	802.11g Mode		
Channel Frequency (MHz)	**Power Density (dBm/10 kHz)**	**Power Density (dBm/3 kHz)**	**Limit (dBm)**
2412	-17.90	-23.13	8dBm/3kHz
2437	-18.86	-24.09	
2462	-18.35	-23.58	
2412 MHz			



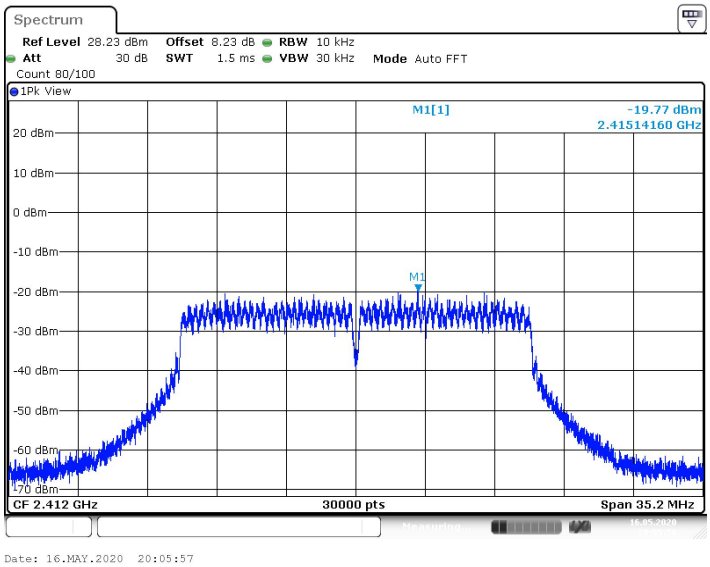
2437 MHz



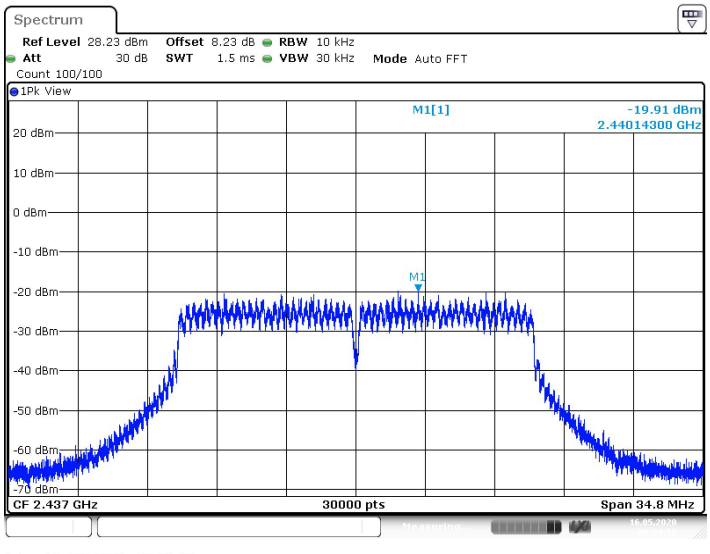
2462 MHz



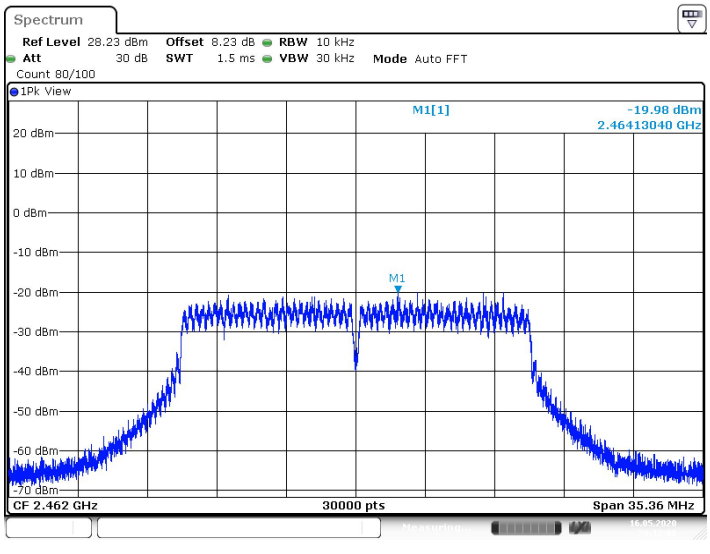
Test Mode:	802.11n(HT20) Mode		
Channel Frequency (MHz)	**Power Density (dBm/10kHz)**	**Power Density (dBm/3 kHz)**	**Limit (dBm)**
2412	-19.77	-25.00	8dBm/3kHz
2437	-19.91	-25.14	
2462	-19.98	-25.21	
2412 MHz			



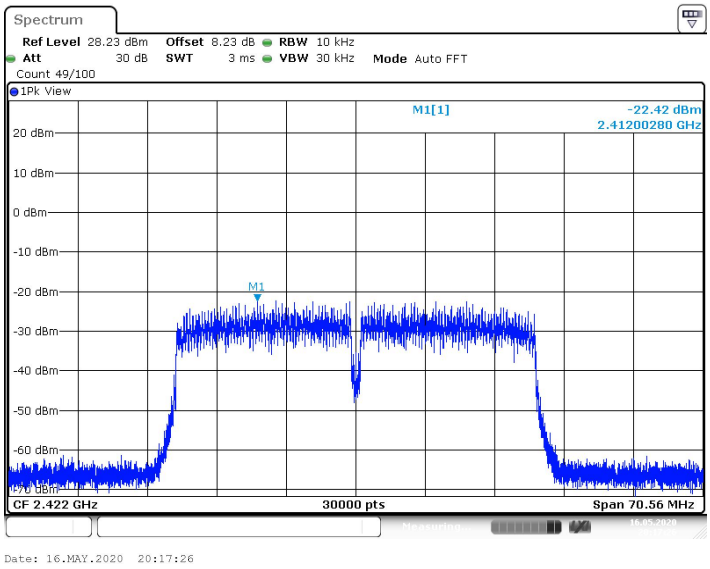
2437 MHz



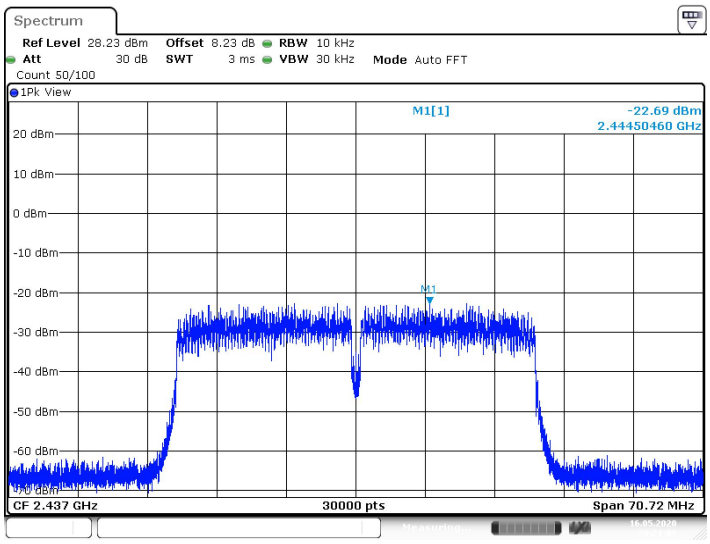
2462 MHz



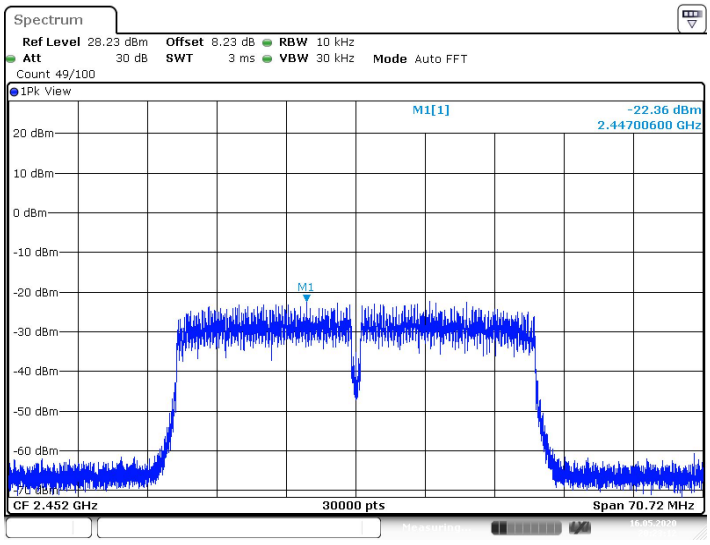
Test Mode:	802.11n(HT40) Mode		
Channel Frequency (MHz)	**Power Density (dBm/10 kHz)**	**Power Density (dBm/3 kHz)**	**Limit (dBm)**
2422	-22.42	-27.65	8dBm/3kHz
2437	-22.69	-27.92	
2452	-22.36	-27.59	
2422 MHz			



2437 MHz



2452 MHz

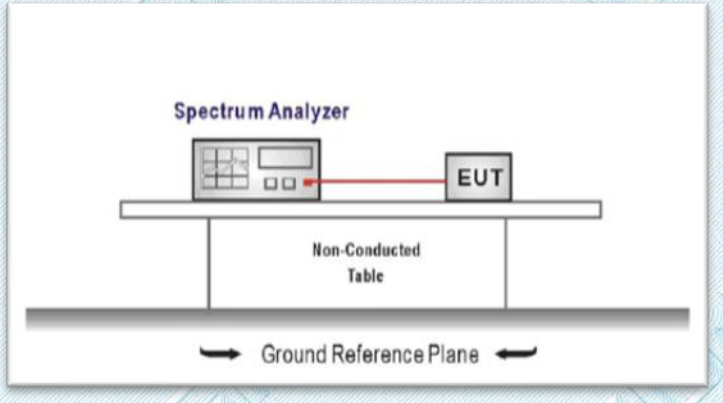


3.6. Band edge and Spurious Emission (conducted)

Limit

FCC CFR Title 47 Part 15 Subpart C Section15.247 (d):
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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.

Test Configuration



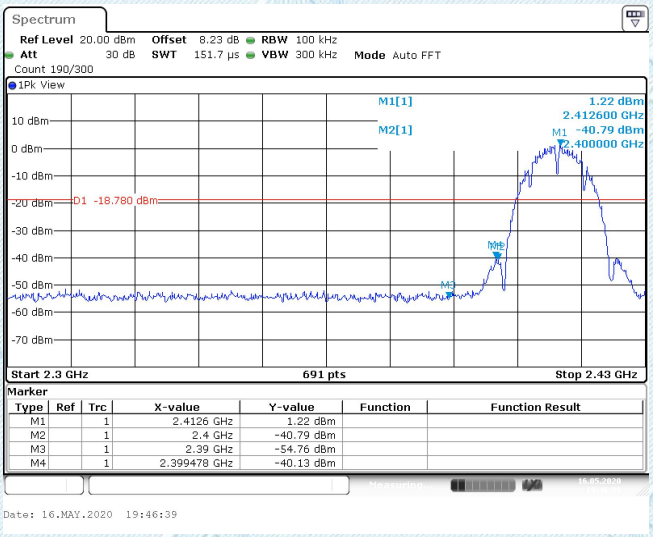
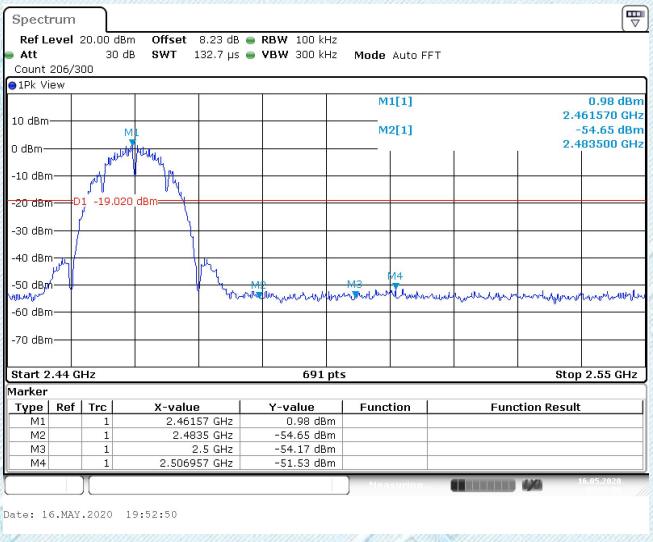
Test Procedure

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Establish a reference level by using the following procedure
   Center frequency=DTS channel center frequency
   The span = 1.5 times the DTS bandwidth.
   RBW = 100 kHz, VBW ≥ 3 x RBW
   Detector = peak, Sweep time = auto couple, Trace mode = max hold
   Allow trace to fully stabilize
   Use the peak marker function to determine the maximum PSD level

   Note: the channel found to contain the maximum PSD level can be used to establish the reference level.
3. Emission level measurement
   Set the center frequency and span to encompass frequency range to be measured
   RBW = 100 kHz, VBW ≥ 3 x RBW
   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.
4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
5. 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 specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emissions relative to the limit.

Test Mode

Please refer to the clause 2.3.

Test Results

802.11b	
CH01-Bandedge	CH11-Bandedge