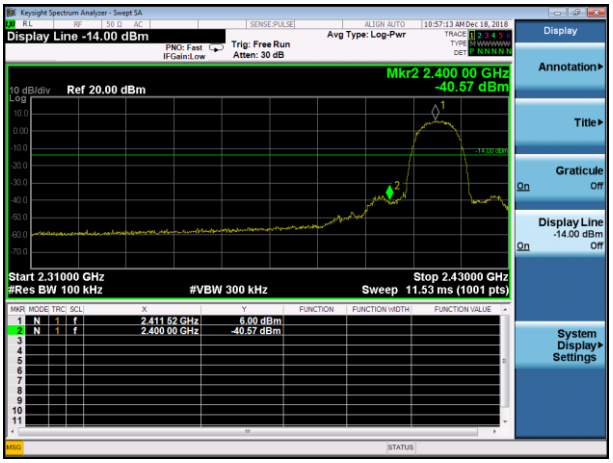
7.7.6 Test Results

EUT:	PMA	Model No.:	PMA1.0
Temperature:	20 ℃	Relative Humidity:	48%
Test Mode:	802.11b/g/n20/n40	Test By:	Loren Luo

Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

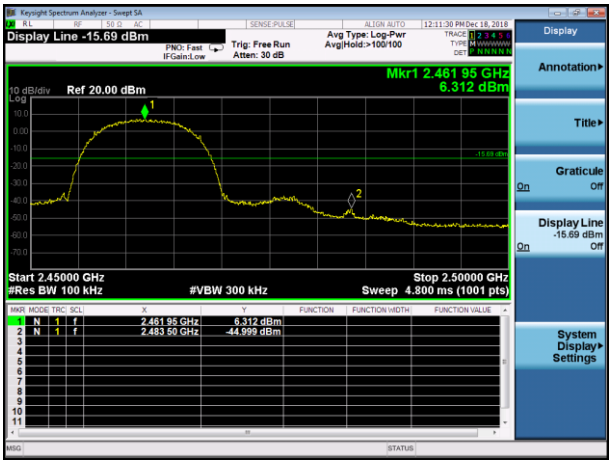
Test plot For

802.11b: Band Edge-Low Channel



802.11g: Band Edge-Low Channel

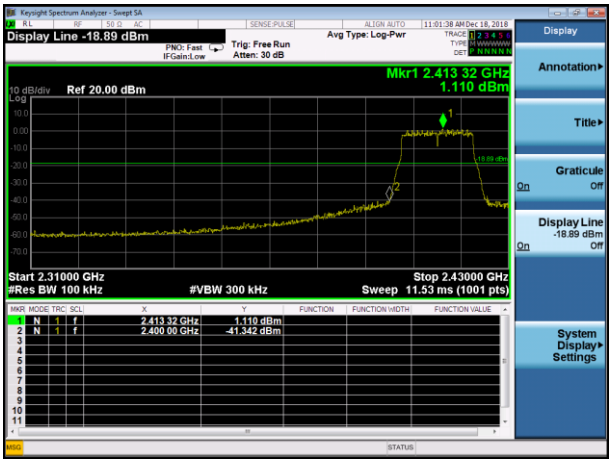
802.11b: Band Edge-High Channel



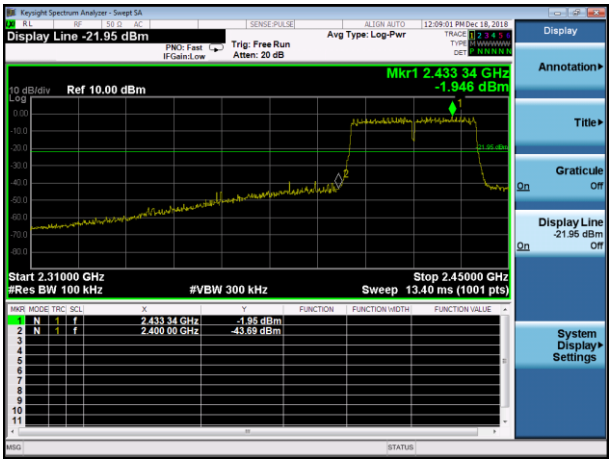
802.11g: Band Edge-High Channel

Test plot For

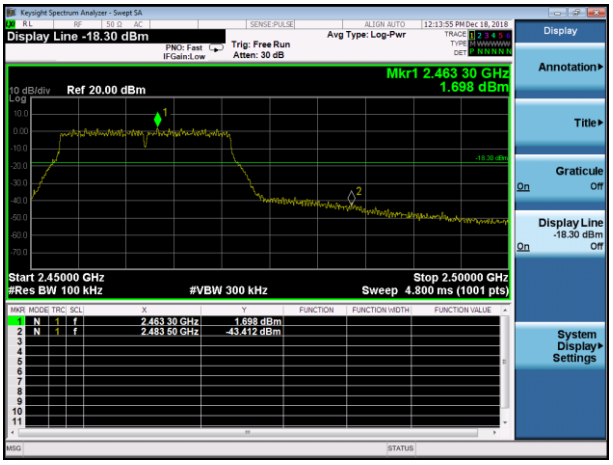
802.11n20: Band Edge-Low Channel



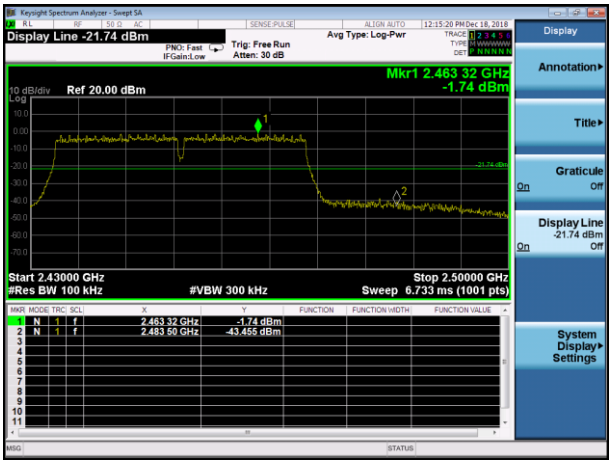
802.11n40: Band Edge-Low Channel



802.11n20: Band Edge-High Channel



802.11n40: Band Edge-High Channel



7.8 SPURIOUS RF CONDUCTED EMISSIONS

7.8.1 Conformance 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.

7.8.2 Measuring Instruments

The Measuring equipment is listed in the section 6.3 of this test report.

7.8.3 Test Setup

Please refer to Section 6.1 of this test report.

7.8.4 Test Procedure

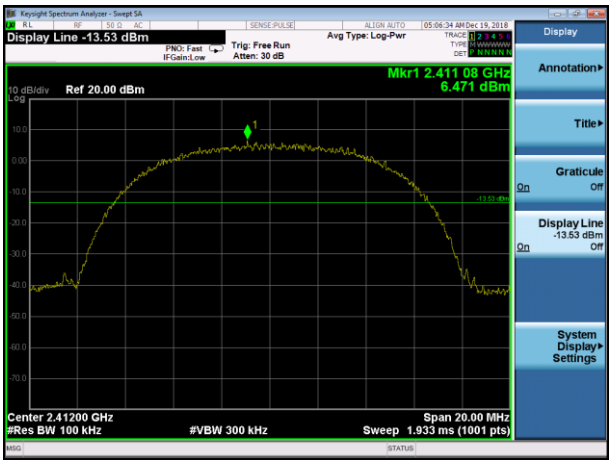
The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2013 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBW= 300KHz to measure the peak field strength , and measure frequency range from 9KHz to 26.5GHz.

7.8.5 Test Results

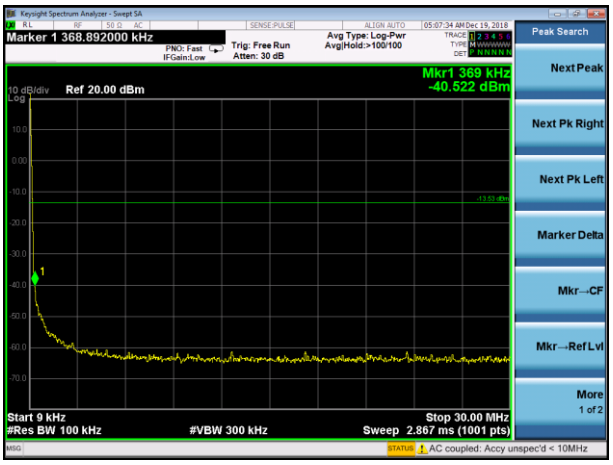
Remark: The measurement frequency range is from 9KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.
Note: A(B) Represent the value of antenna A and B, The worst data is Antenna B, only shown Antenna B Plot.

Test Plot

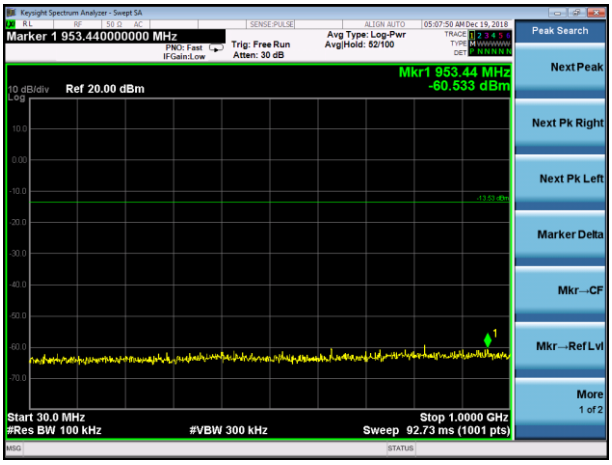
802.11b on channel 01



802.11b on channel 01



802.11b on channel 01

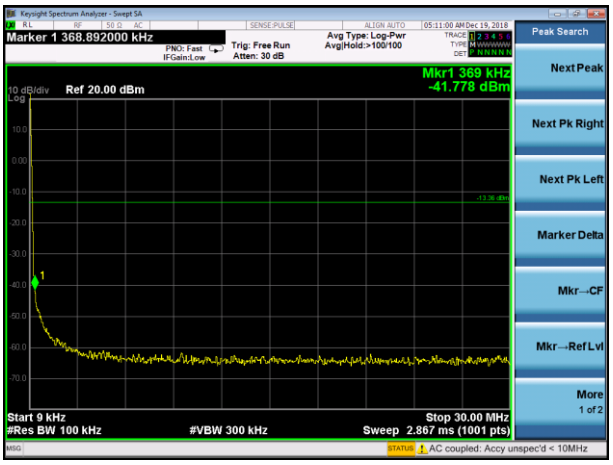


802.11b on channel 01

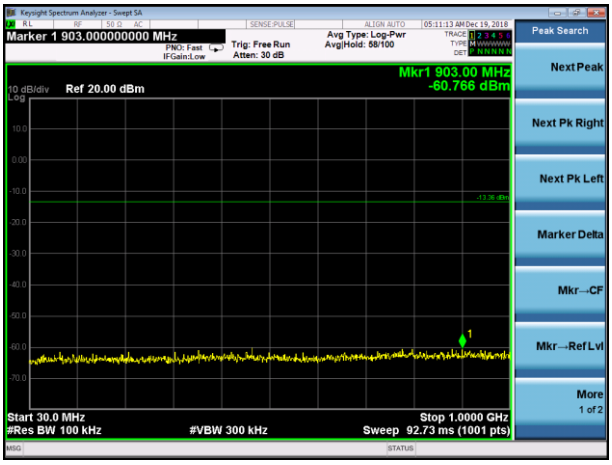
Test Plot

802.11b on channel 06

802.11b on channel 06



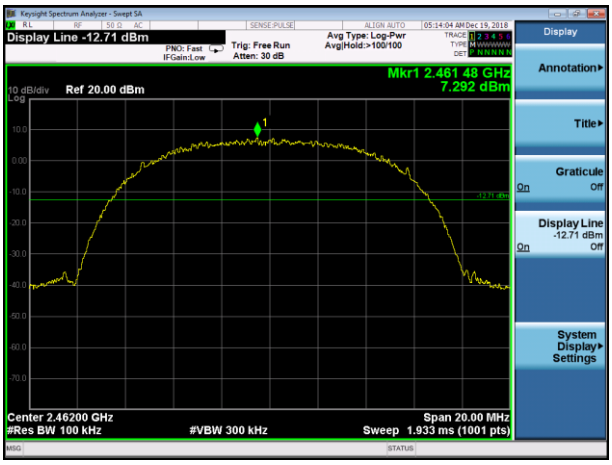
802.11b on channel 06



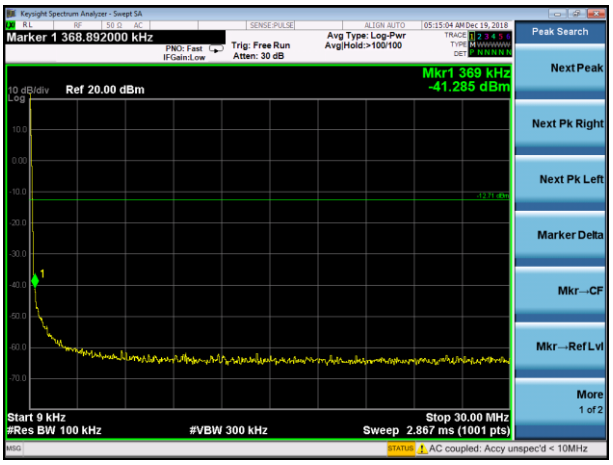
802.11b on channel 06

Test Plot

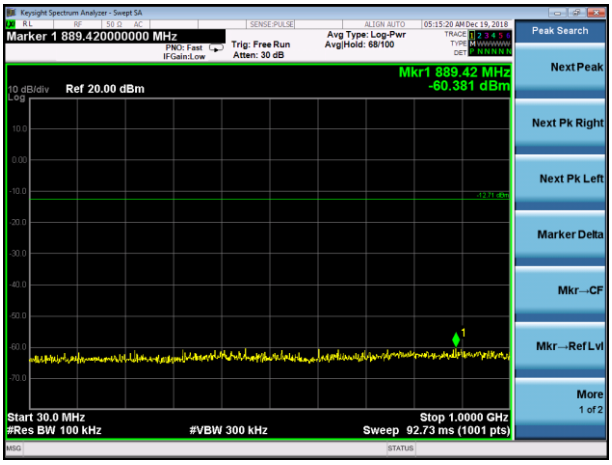
802.11b on channel 11



802.11b on channel 11



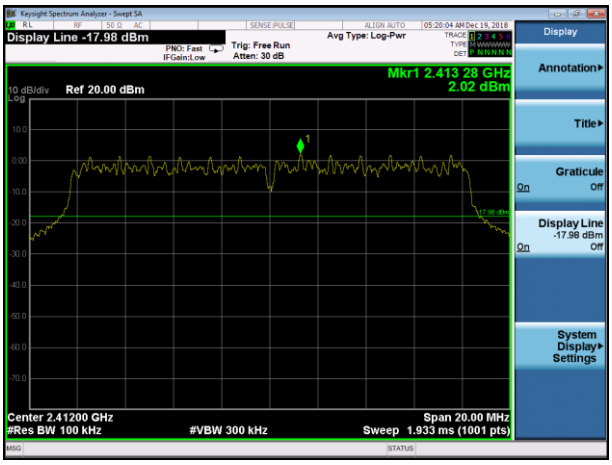
802.11b on channel 11



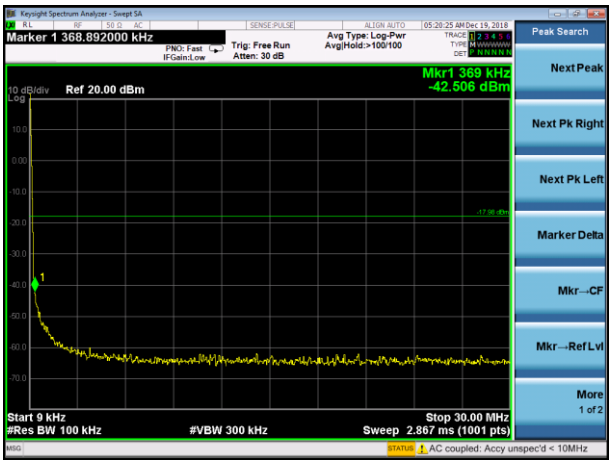
802.11b on channel 11

Test Plot

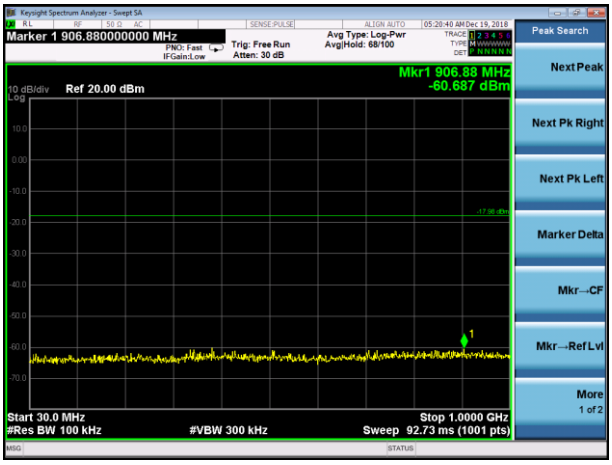
802.11g on channel 01



802.11g on channel 01



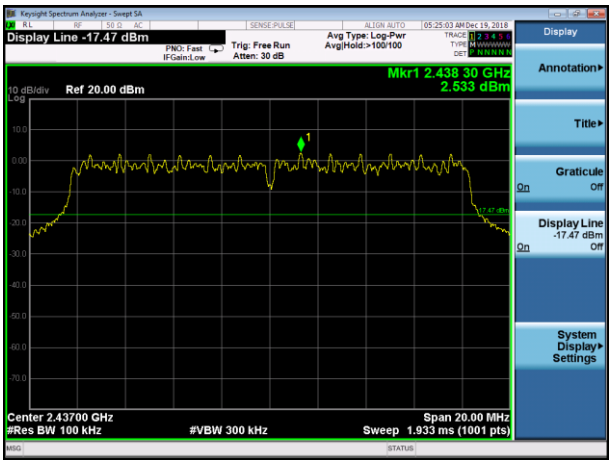
802.11g on channel 01



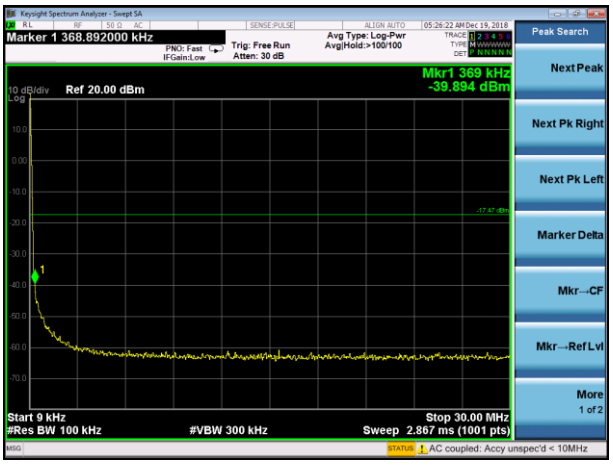
802.11g on channel 01

Test Plot

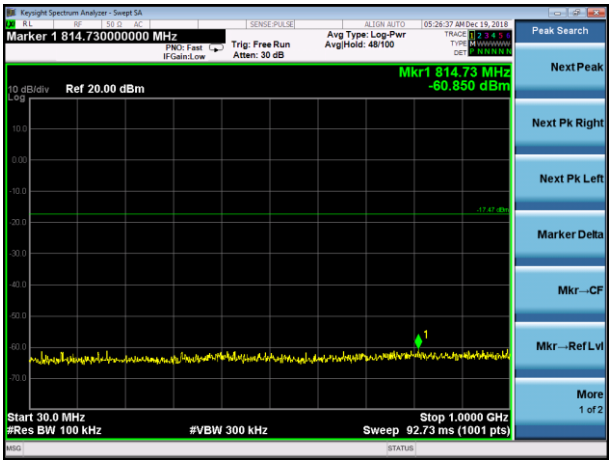
802.11g on channel 06



802.11g on channel 06



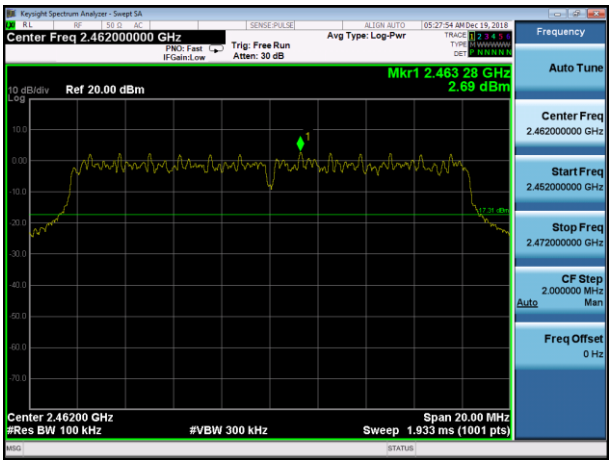
802.11g on channel 06



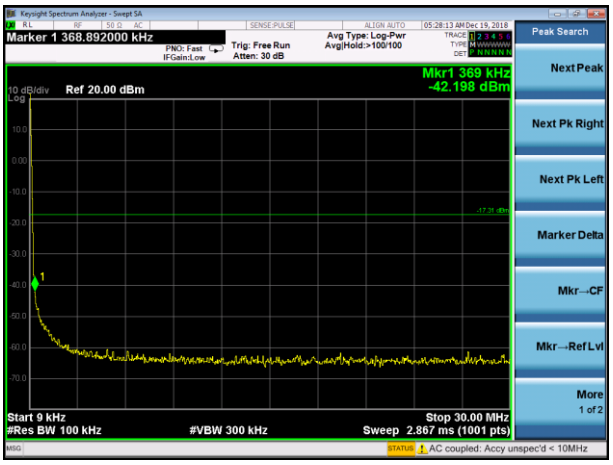
802.11g on channel 06

Test Plot

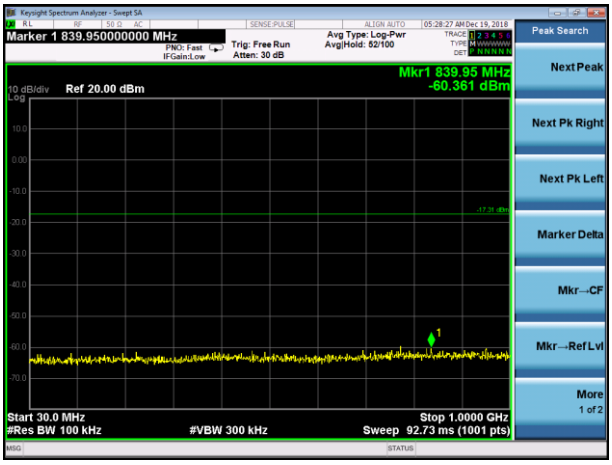
802.11g on channel 11



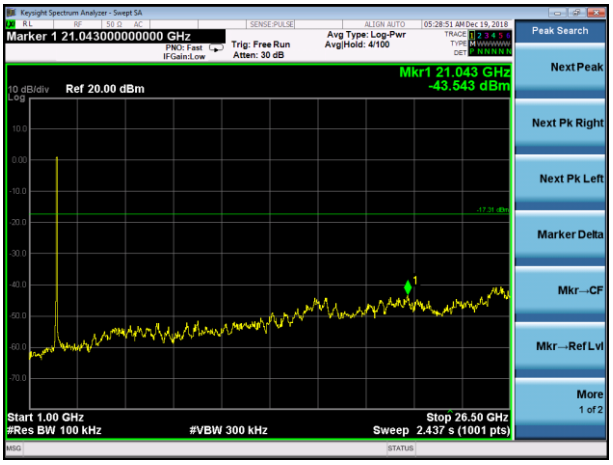
802.11g on channel 11



802.11g on channel 11

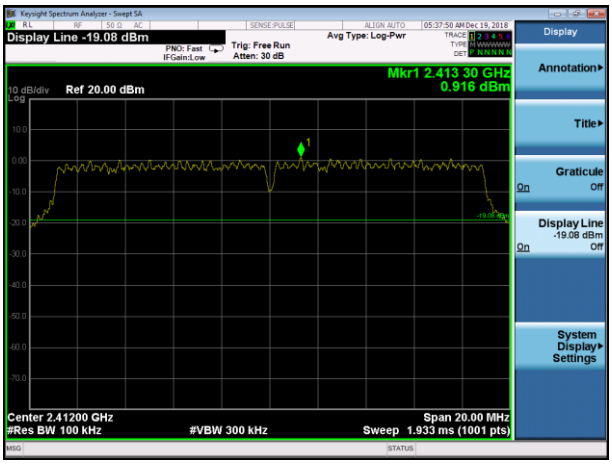


802.11g on channel 11

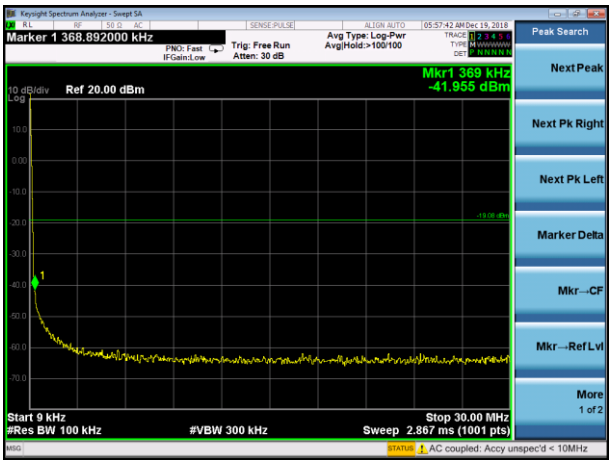


Test Plot

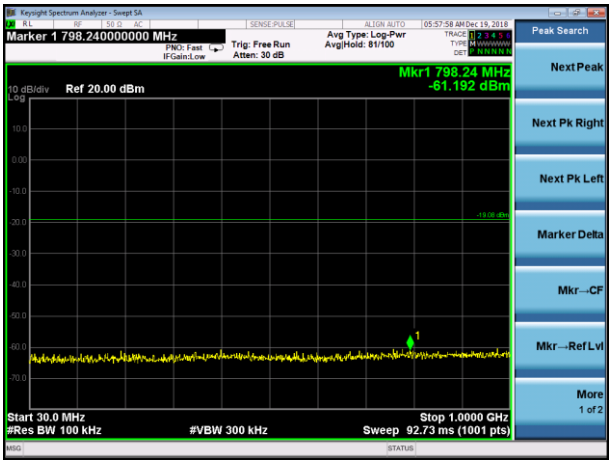
802.11n20 on channel 01



802.11n20 on channel 01



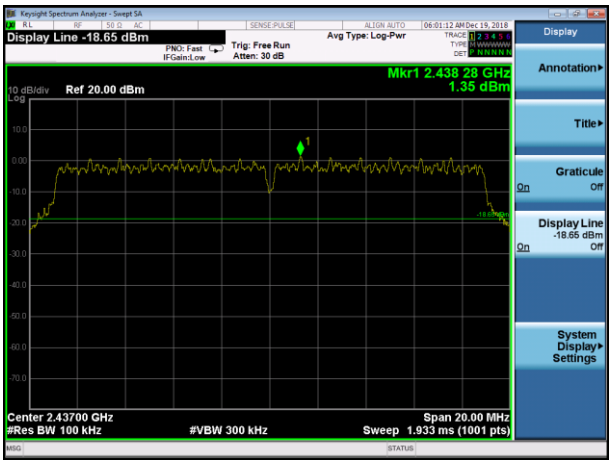
802.11 n20 on channel 01



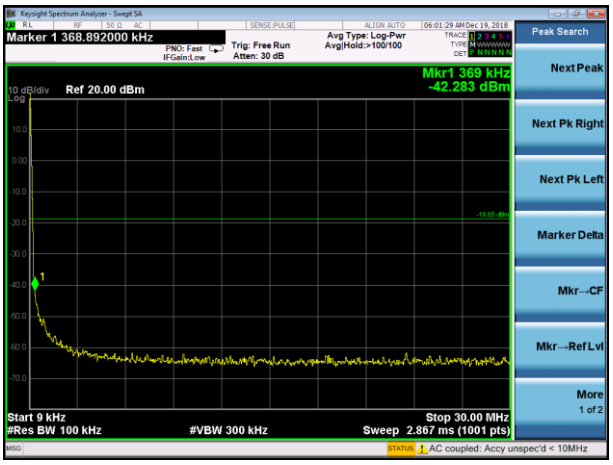
802.11 n20 on channel 01

Test Plot

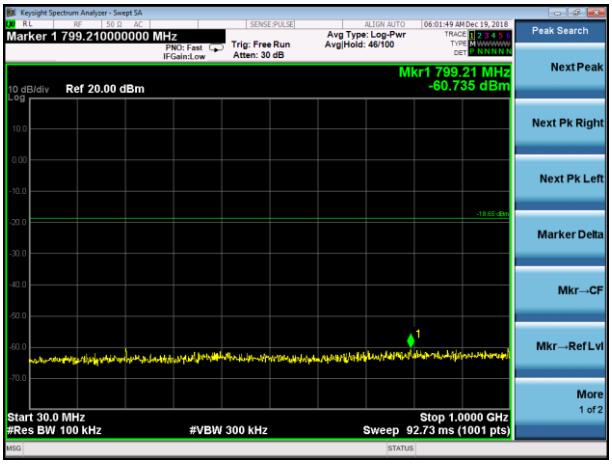
802.11 n20 on channel 06



802.11 n20 on channel 06



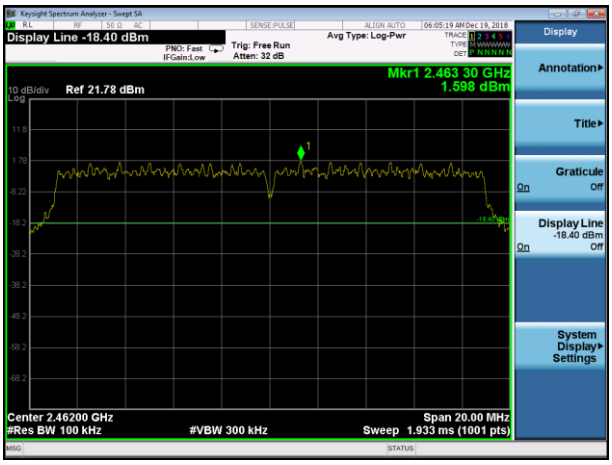
802.11 n20 on channel 06



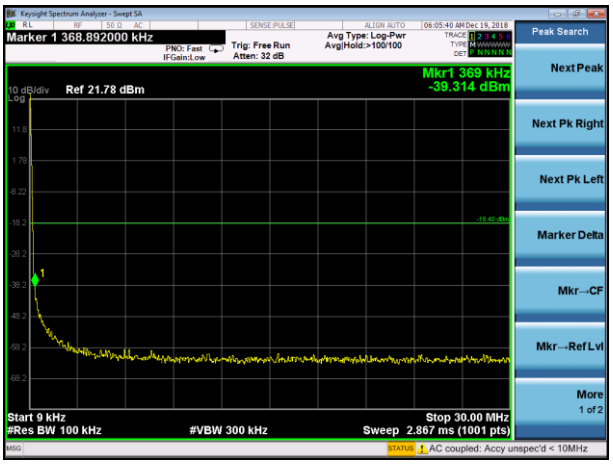
802.11 n20 on channel 06

Test Plot

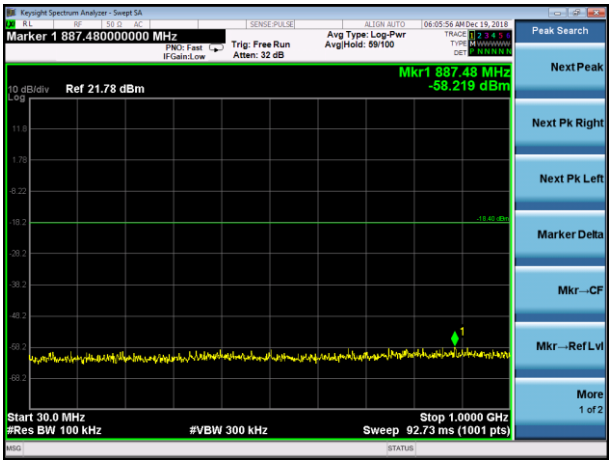
802.11 n20 on channel 11



802.11 n20 on channel 11



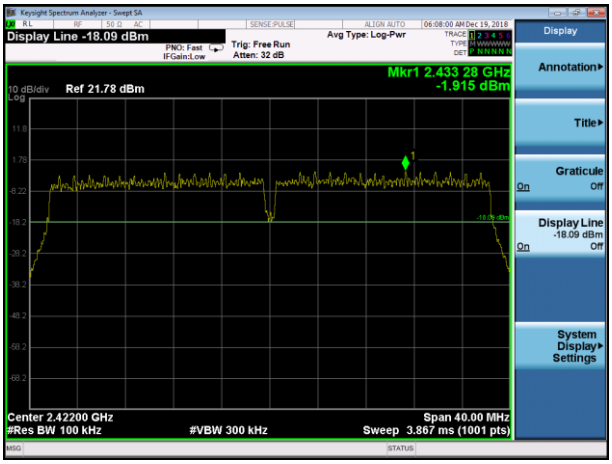
802.11 n20 on channel 11



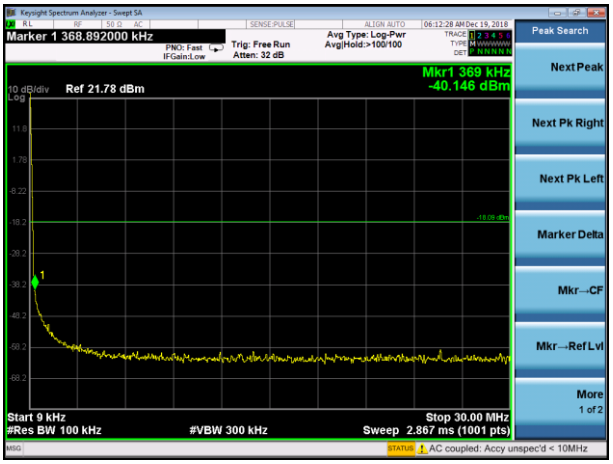
802.11 n20 on channel 11

Test Plot

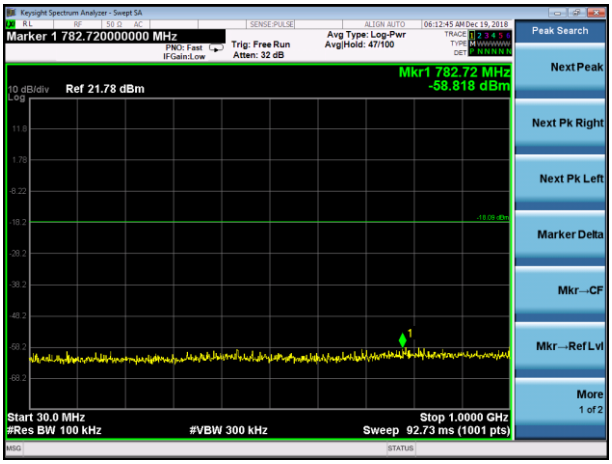
802.11n40 on channel 03



802.11n40 on channel 03



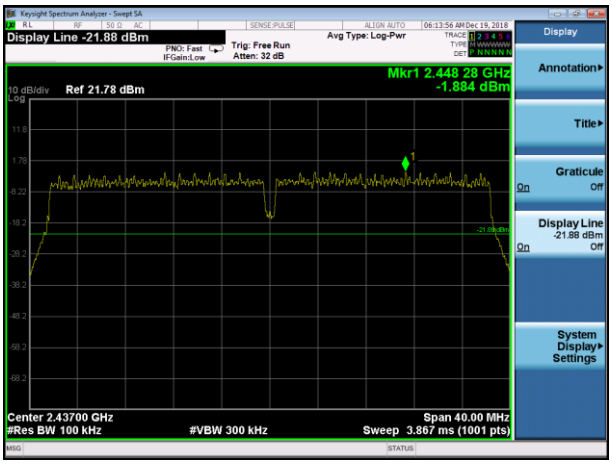
802.11 n40 on channel 03



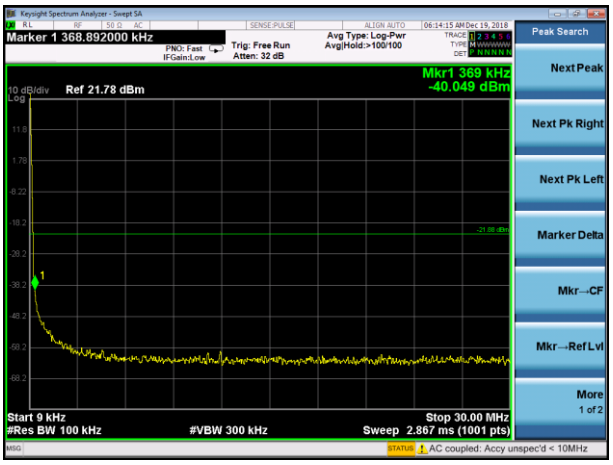
802.11 n40 on channel 03

Test Plot

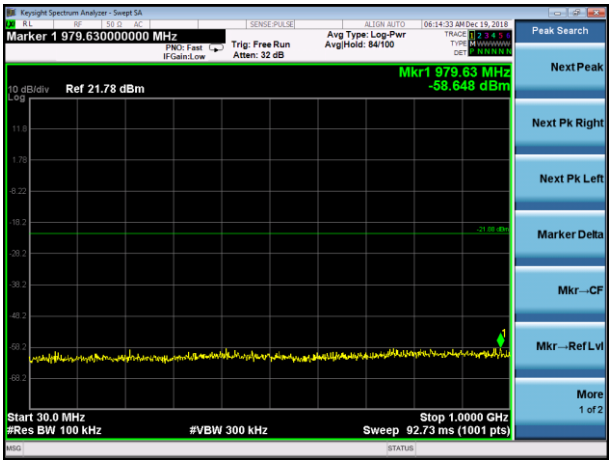
802.11 n40 on channel 06



802.11 n40 on channel 06



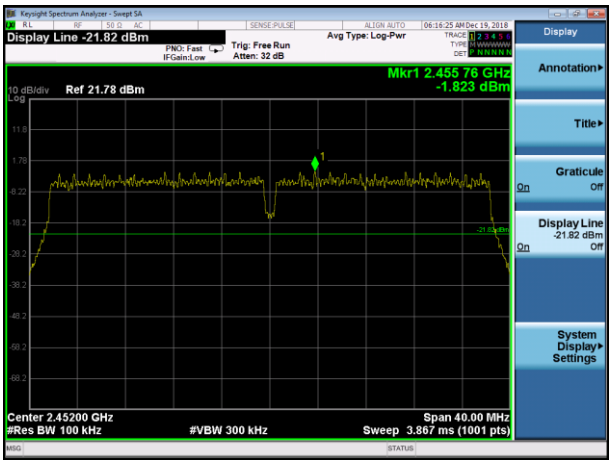
802.11 n40 on channel 06



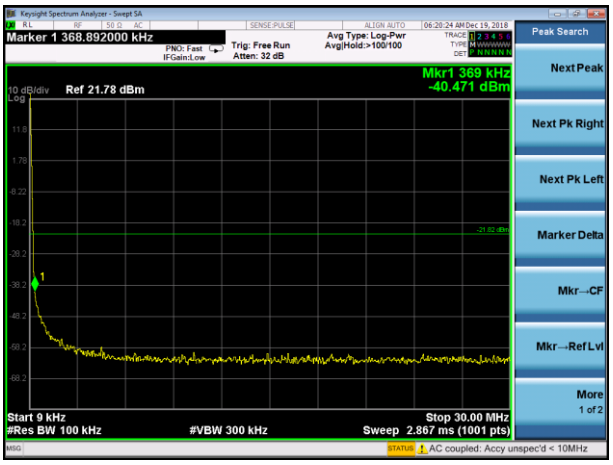
802.11 n40 on channel 06

Test Plot

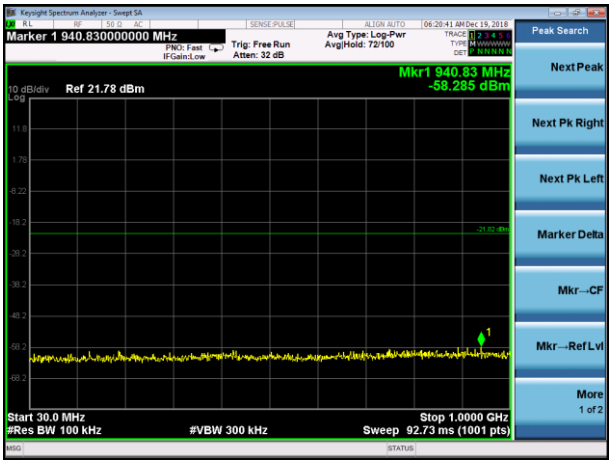
802.11 n40 on channel 9



802.11 n40 on channel 9



802.11 n40 on channel 9



802.11 n40 on channel 9

7.9 ANTENNA APPLICATION

7.9.1 Antenna Requirement

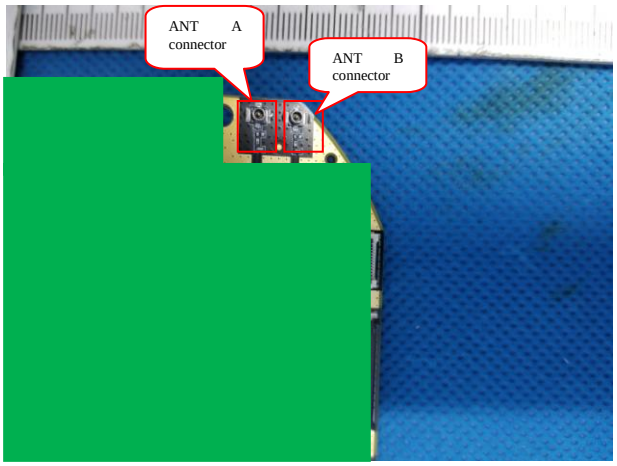
15.203 requirement: For intentional device, according to 15.203: an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.9.2 Result

The EUT has two of antenna. The wireless module is 1x1 Wi-Fi support 802.11b / g / n / ac; The 802.11 n support MIMO.

Tx Antenna

Antenna	Antenna Type	Antenna Gain(dBi)
		2.4G
A(main)	FPCB	4.34
B(aux)	FPCB	4.34



It comply with the standard requirement.

END OF REPORT