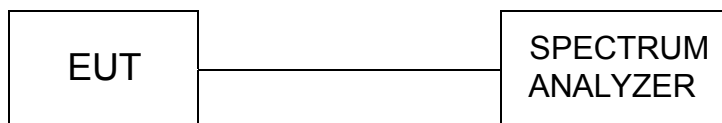


4.6. Power Spectral Density Measurement

TEST CONFIGURATION



TEST PROCEDURE

The EUT was tested according to KDB558074 D01 v03r01 for compliance to FCC 47CFR 15.247 requirements.

Set RBW= 3 kHz, VBW \geq 10KHz, SPAN to 1.5 times greater than the EBW,.

LIMIT

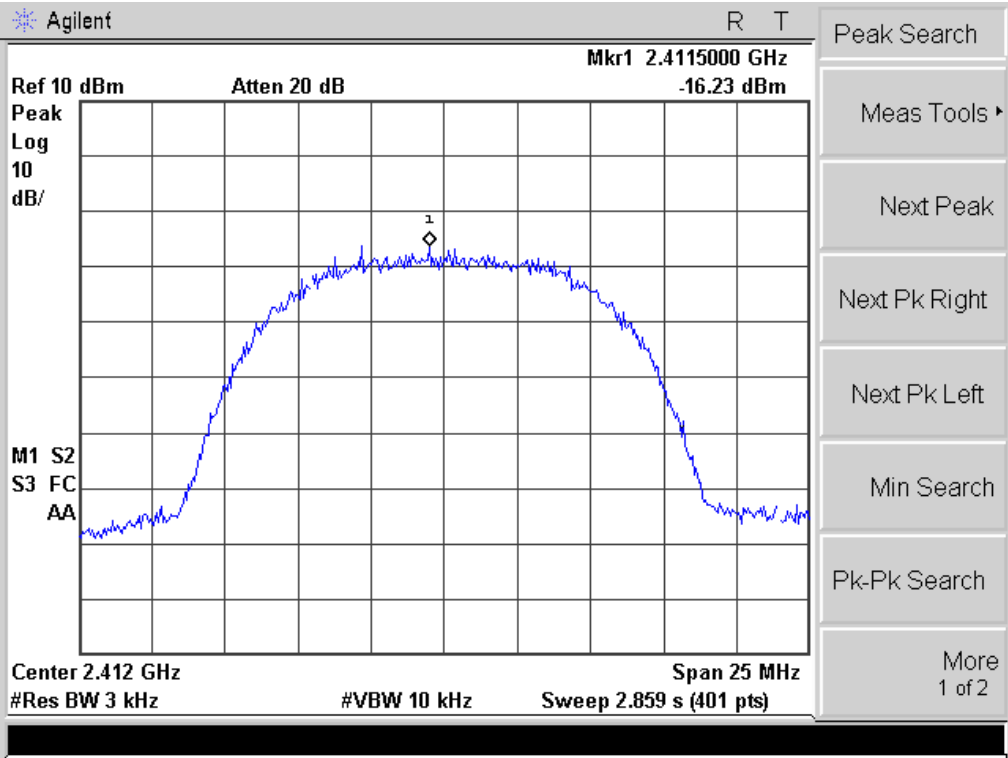
For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

TEST RESULTS

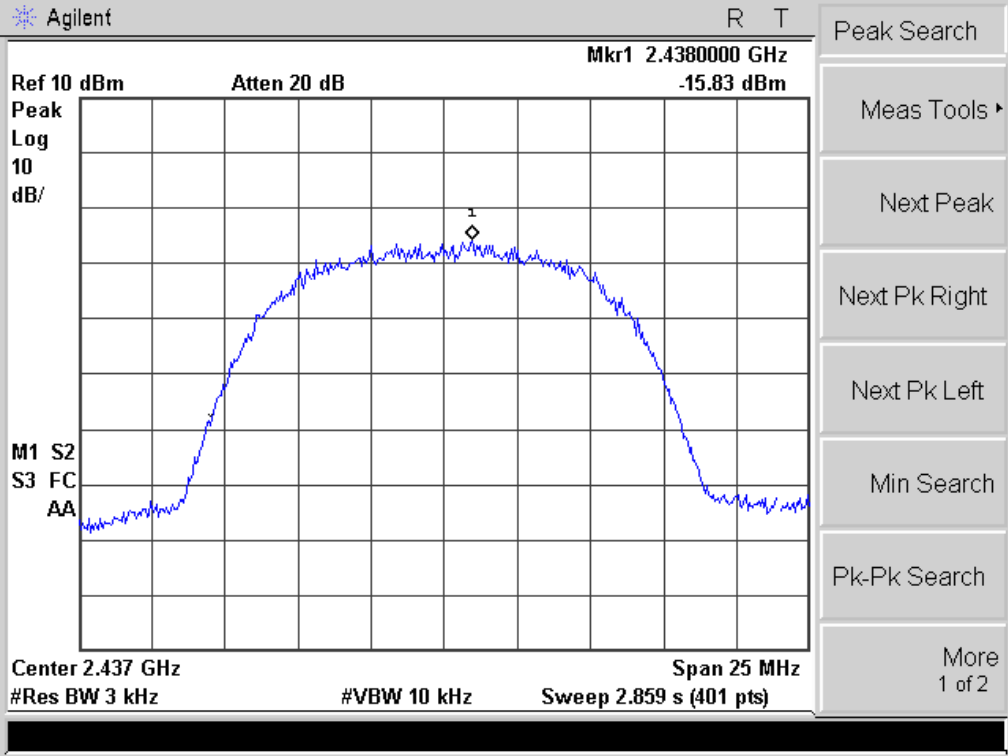
| | | |
|-----------|---|-----------------------------|
| Product | : | 7" Android Tablet PC |
| Test Item | : | Power Spectral Density |
| Test Mode | : | Mode 1: Transmit by 802.11b |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm/3KHz) | Limit (dBm/3KHz) | Result |
|-------------|-----------------|-----------------------------|------------------|--------|
| 01 | 2412 | -16.23 | 8 | Pass |
| 06 | 2437 | -15.83 | 8 | Pass |
| 11 | 2462 | -15.56 | 8 | Pass |

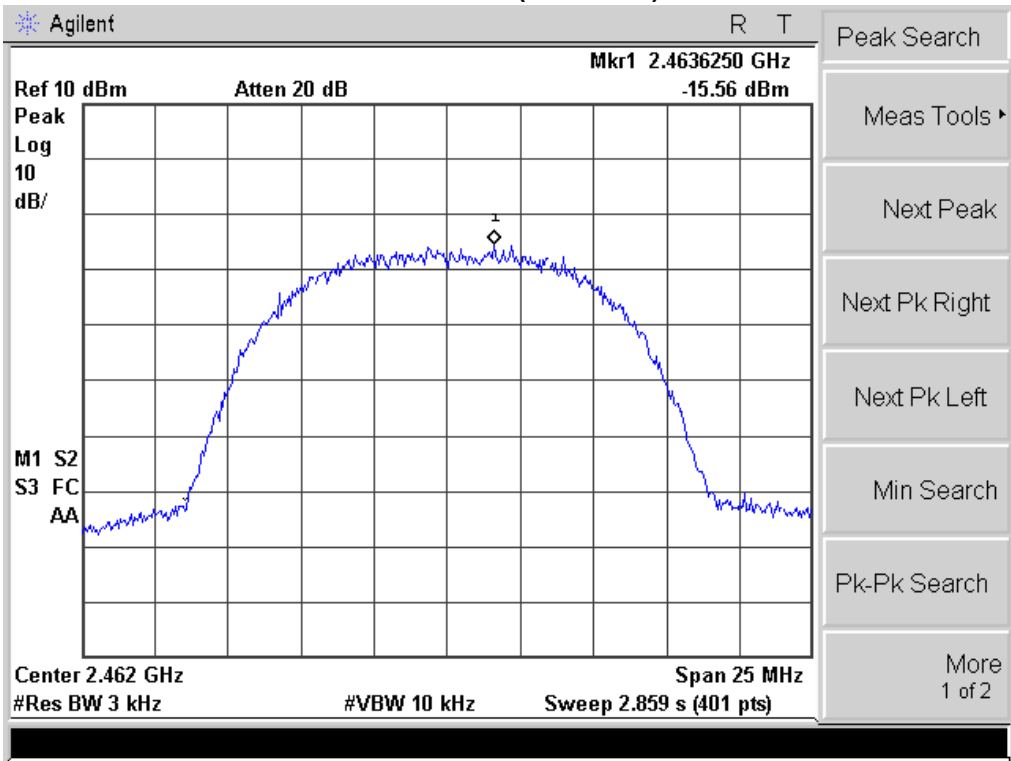
Channel 01 (2412MHz)



Channel 06 (2437MHz)



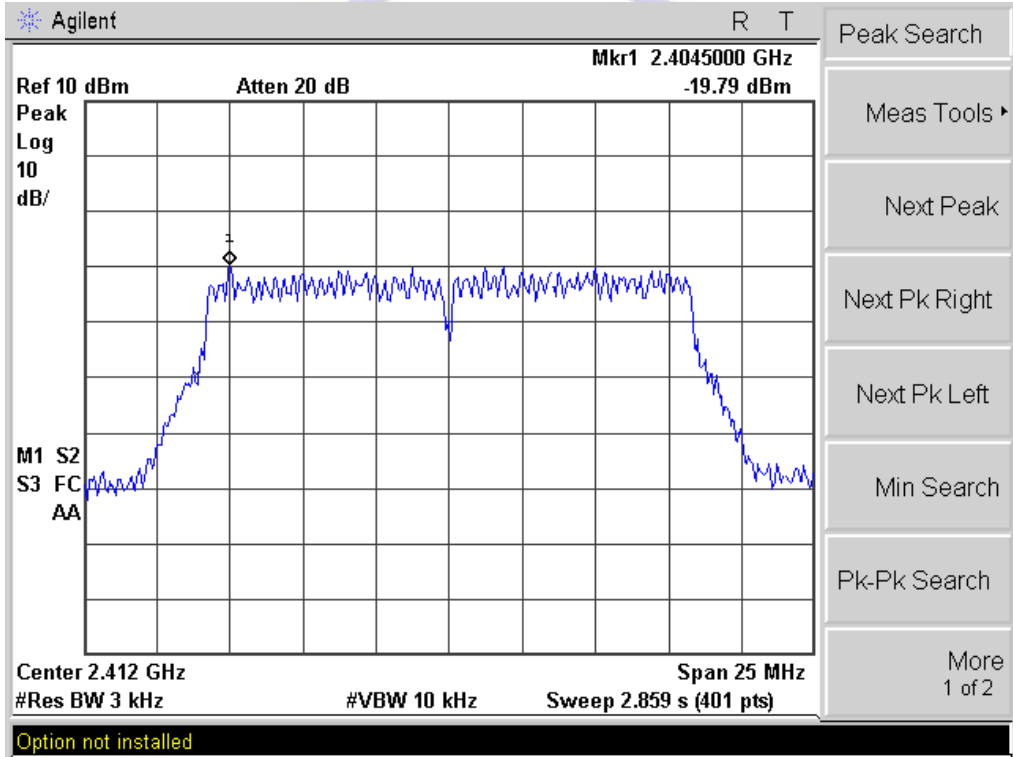
Channel 11 (2462MHz)



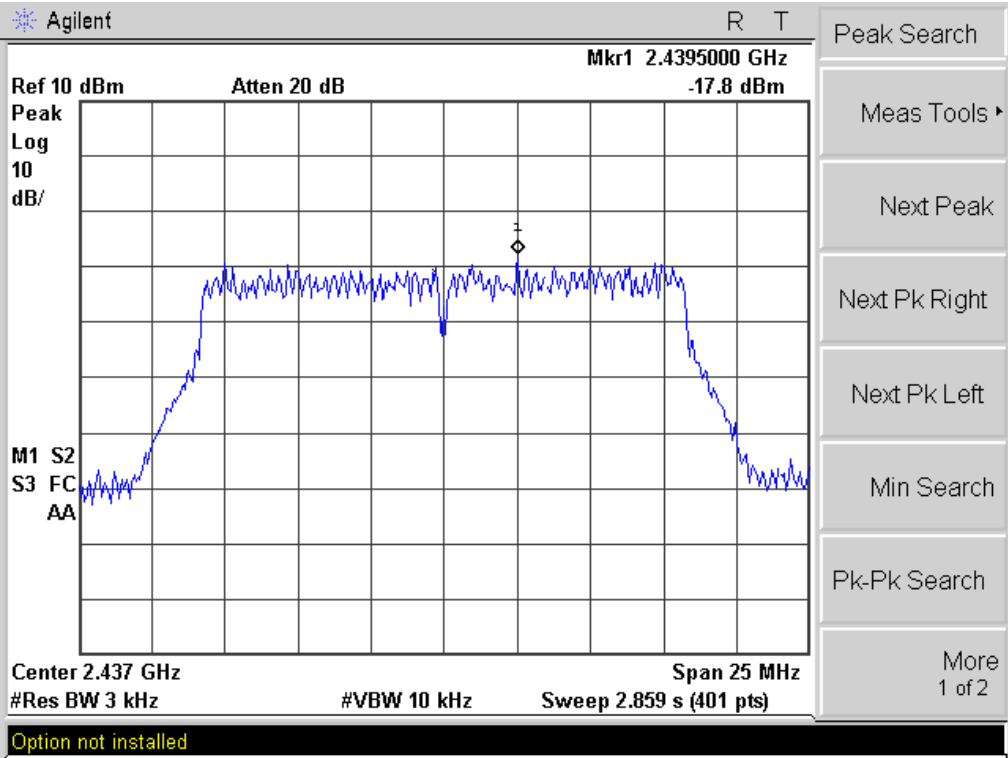
| | | |
|-----------|---|-----------------------------|
| Product | : | 7" Android Tablet PC |
| Test Item | : | Power Spectral Density |
| Test Mode | : | Mode 2: Transmit by 802.11g |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm/3KHz) | Limit (dBm/3KHz) | Result |
|-------------|-----------------|-----------------------------------|---------------------|--------|
| 01 | 2412 | -19.79 | 8 | Pass |
| 06 | 2437 | -17.80 | 8 | Pass |
| 11 | 2462 | -18.17 | 8 | Pass |

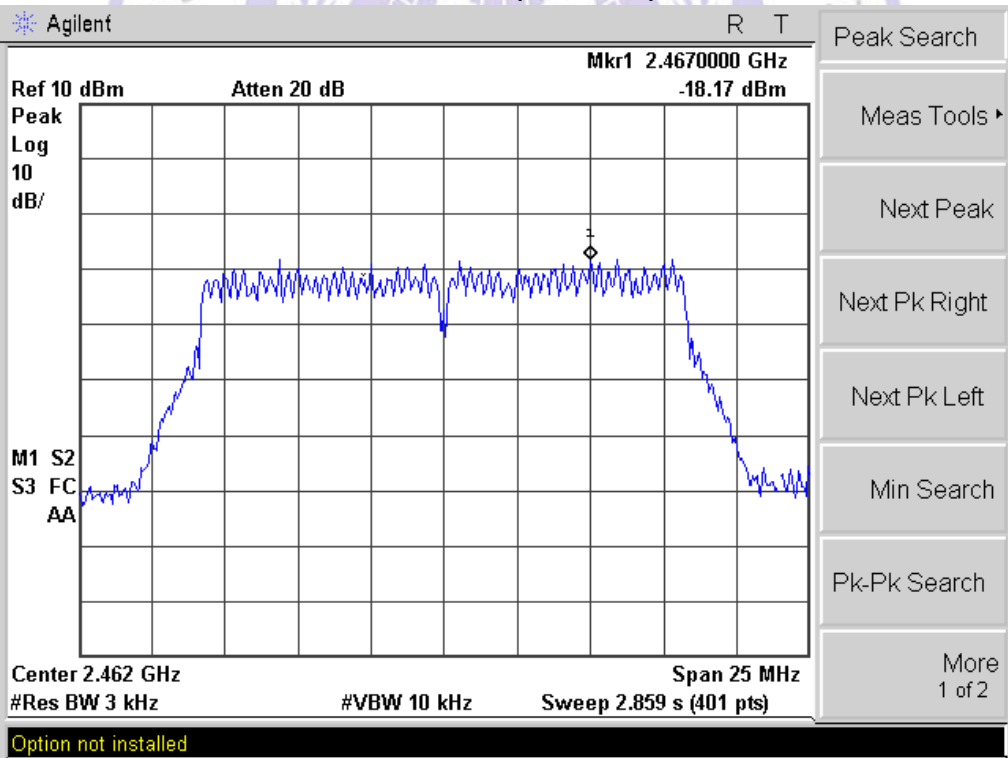
Channel 01 (2412MHz)



Channel 06 (2437MHz)

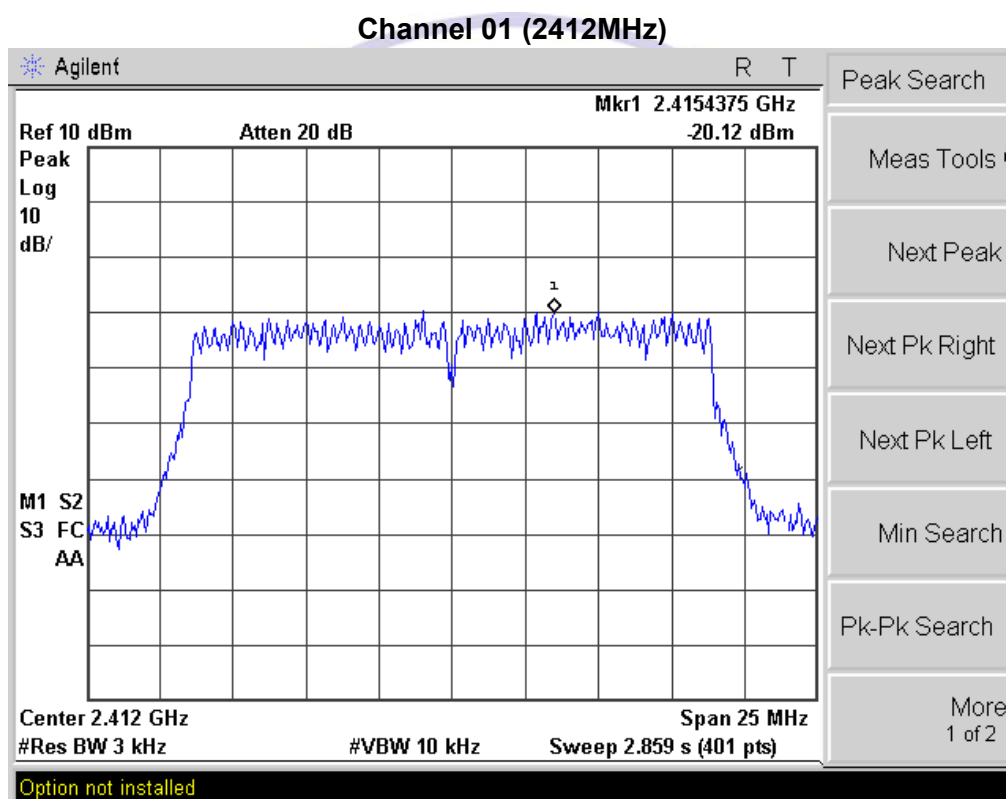


Channel 11 (2462MHz)

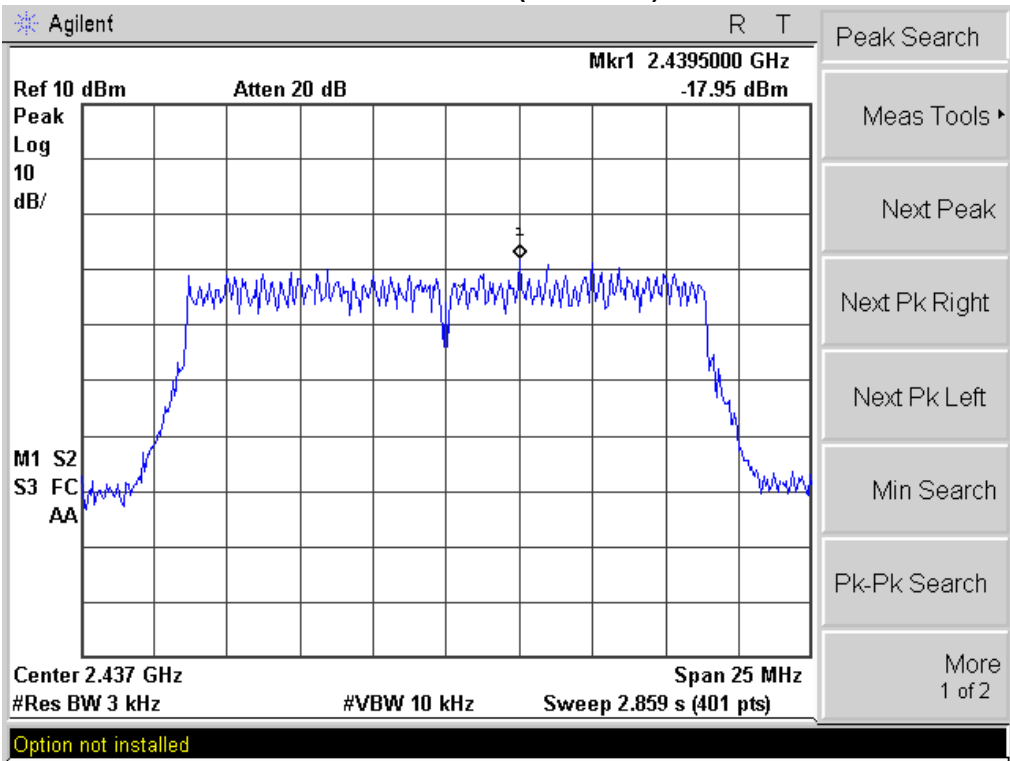


| | | |
|-----------|---|-------------------------------------|
| Product | : | 7" Android Tablet PC |
| Test Item | : | Power Spectral Density |
| Test Mode | : | Mode 3: Transmit by 802.11n (20MHz) |

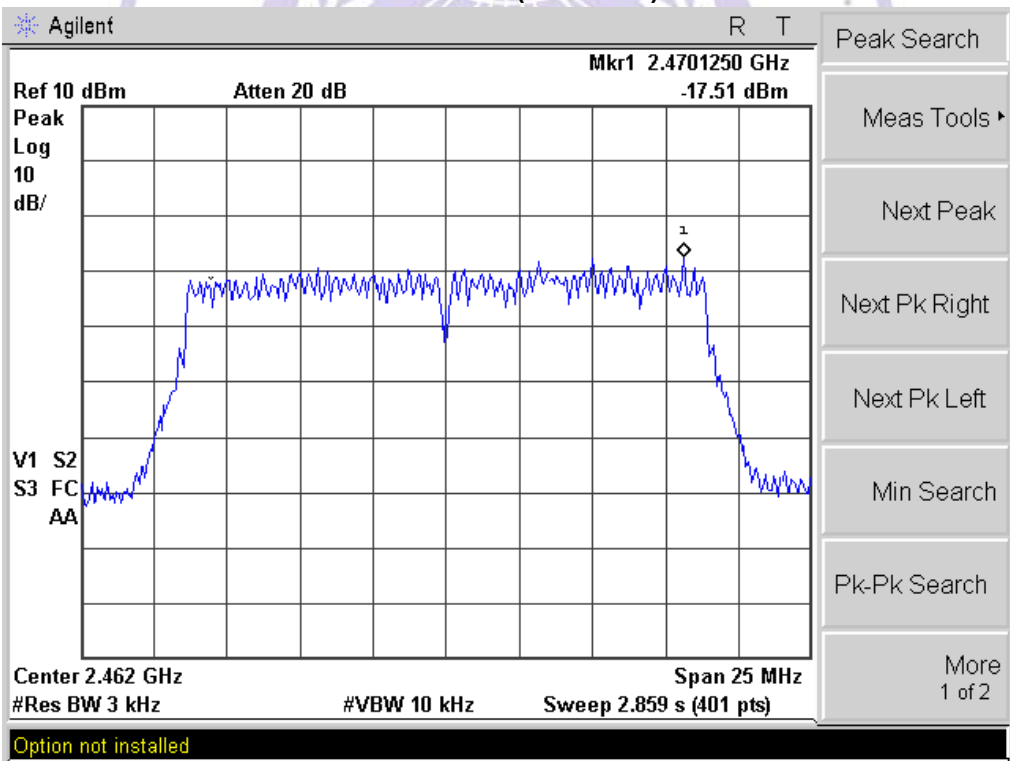
| Channel No. | Frequency (MHz) | Measurement PPSD (dBm/3KHz) | Limit (dBm/3KHz) | Result |
|-------------|--------------------|-----------------------------------|---------------------|--------|
| 01 | 2412 | -20.12 | 8 | Pass |
| 06 | 2437 | -17.95 | 8 | Pass |
| 11 | 2462 | -17.51 | 8 | Pass |



Channel 06 (2437MHz)



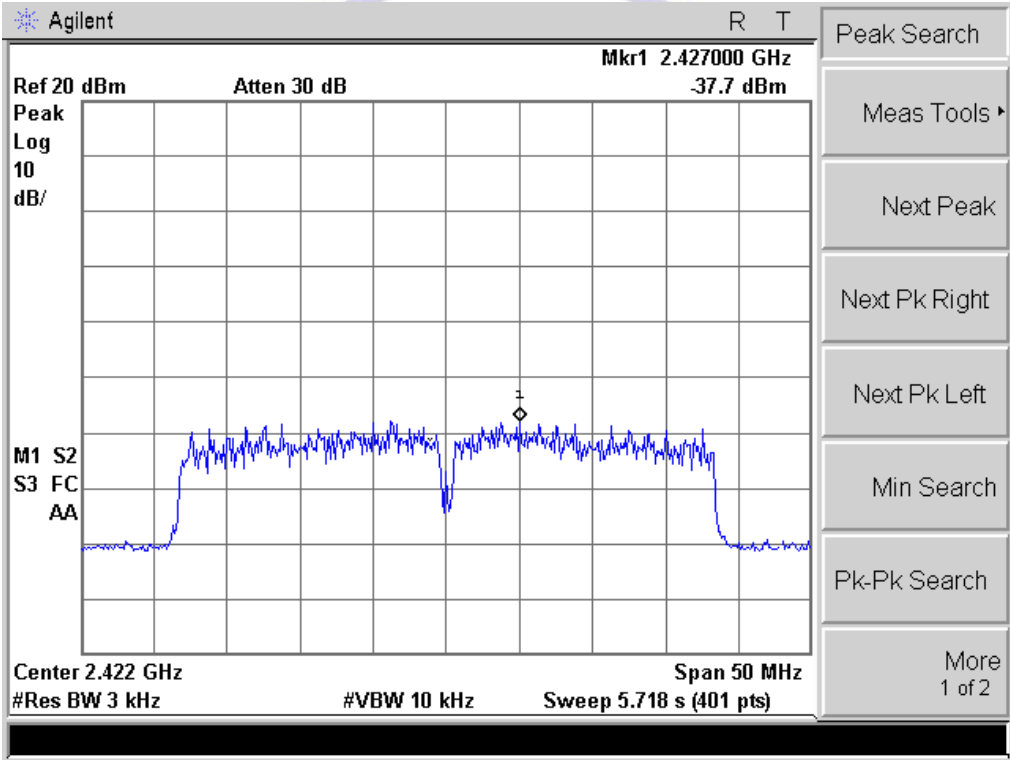
Channel 11 (2462MHz)



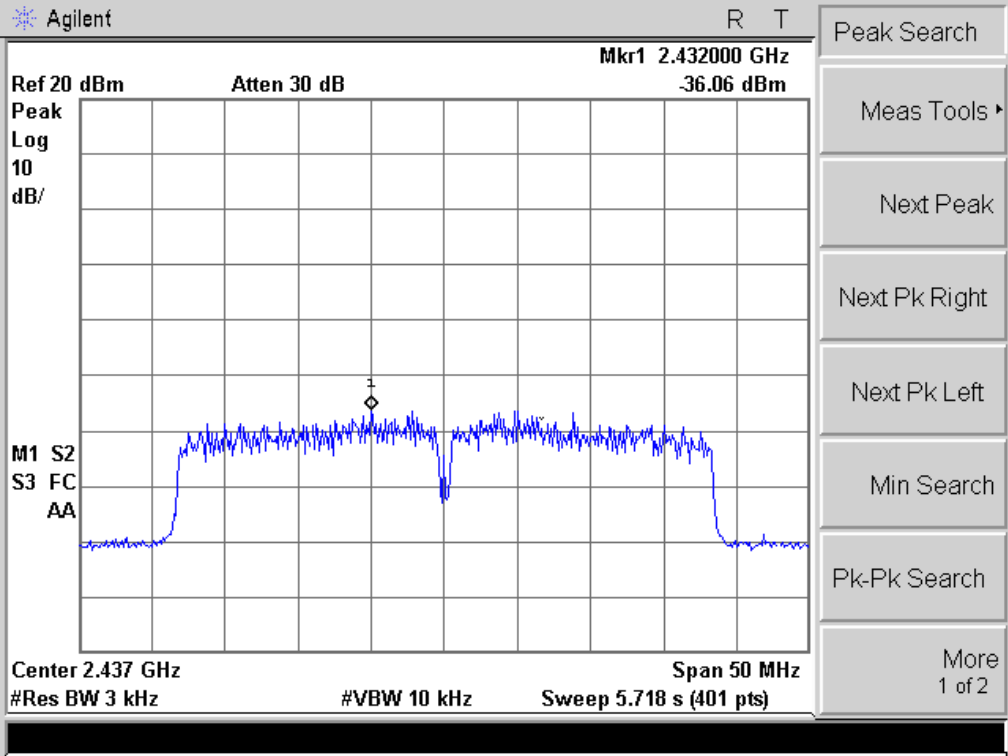
| | | |
|-----------|---|-------------------------------------|
| Product | : | 7" Android Tablet PC |
| Test Item | : | Power Spectral Density |
| Test Mode | : | Mode 4: Transmit by 802.11n (40MHz) |

| Channel No. | Frequency (MHz) | Measurement PPSD (dBm/3KHz) | Limit (dBm/3KHz) | Result |
|-------------|-----------------|-----------------------------------|---------------------|--------|
| 03 | 2422 | -37.70 | 8 | Pass |
| 06 | 2437 | -36.06 | 8 | Pass |
| 09 | 2452 | -37.73 | 8 | Pass |

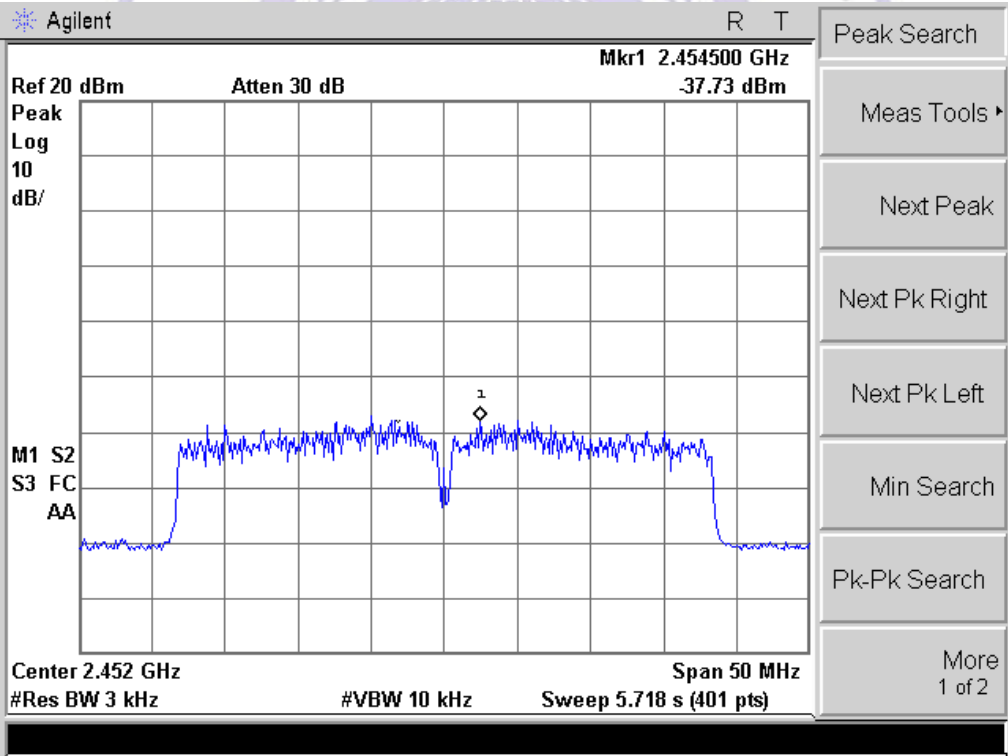
Channel 03 (2422MHz)



Channel 06 (2437MHz)

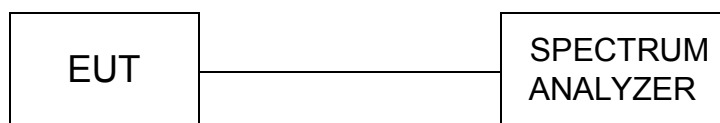


Channel 09 (2452MHz)



4.7. Spurious RF Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

The EUT was tested according to KDB558074 D01 v03r01 for compliance to FCC 47CFR 15.247 requirements.

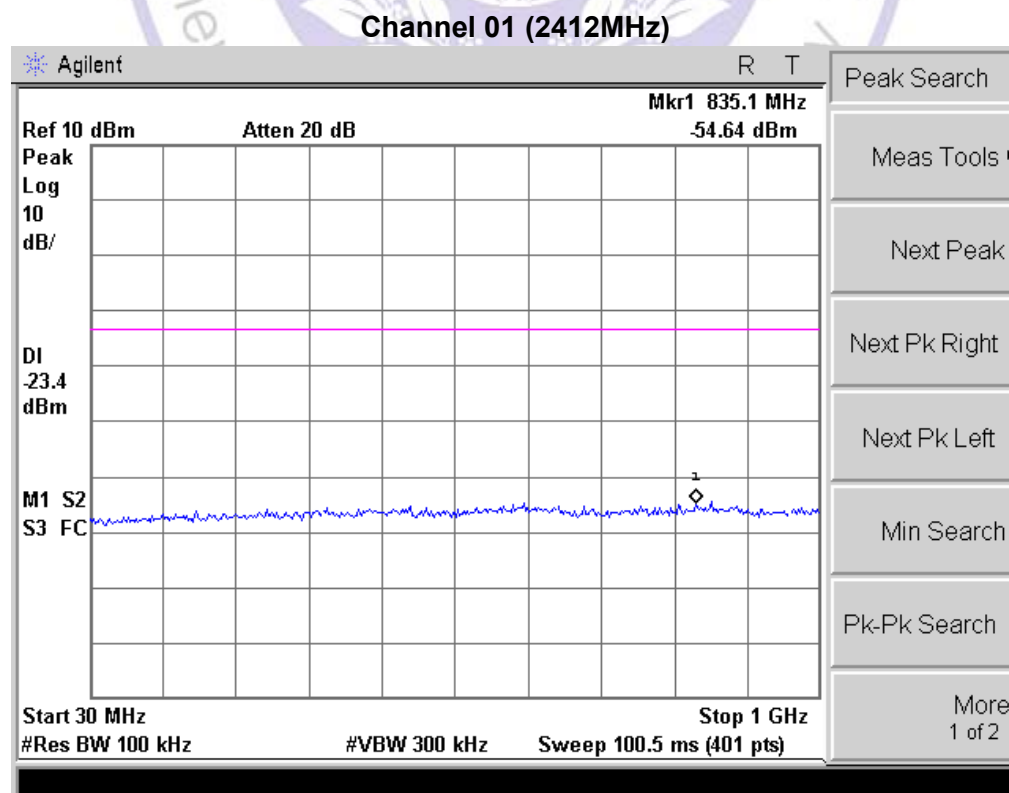
The Spurious RF conducted emissions compliance of RF radiated emission should be measured by following the guidance in ANSI C63.10-2009 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization etc. Set RBW=100kHz and VBM= 300kHz to measure the peak field strength, and measure frequency range from 30MHz to 26.5GHz.

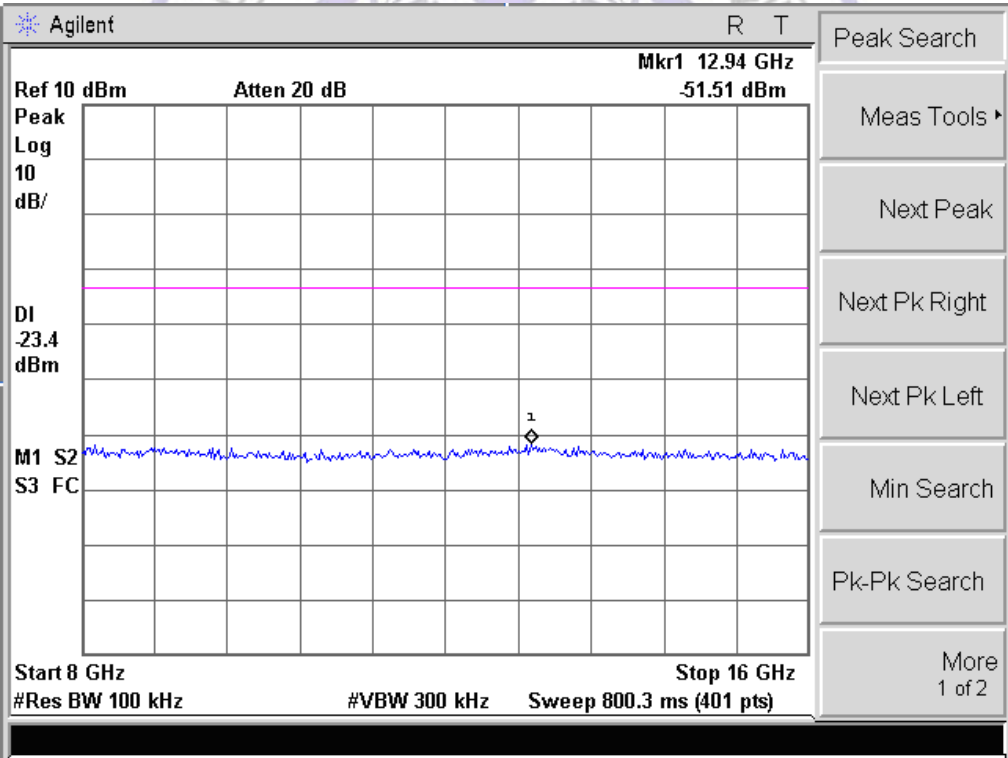
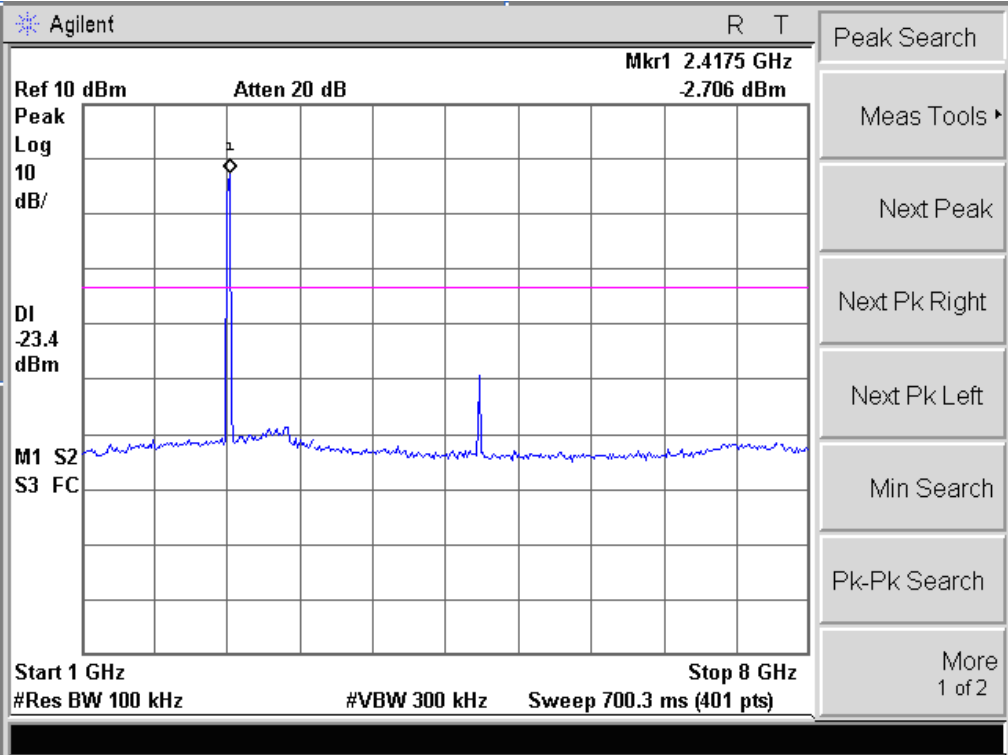
LIMIT

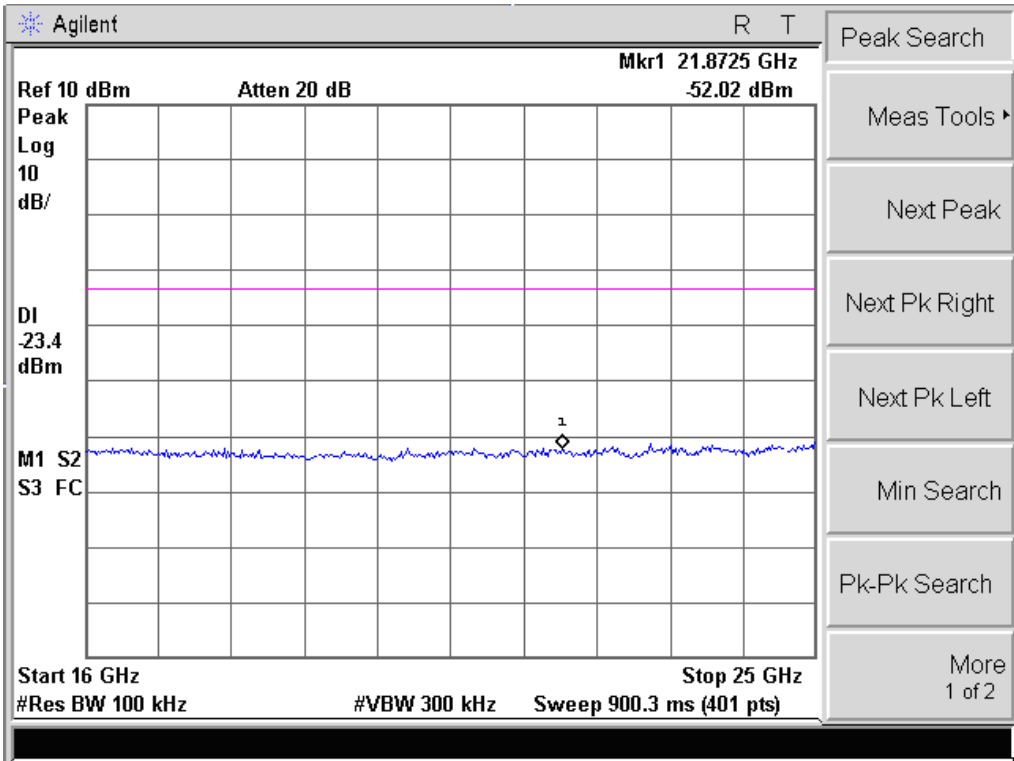
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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.

TEST RESULTS

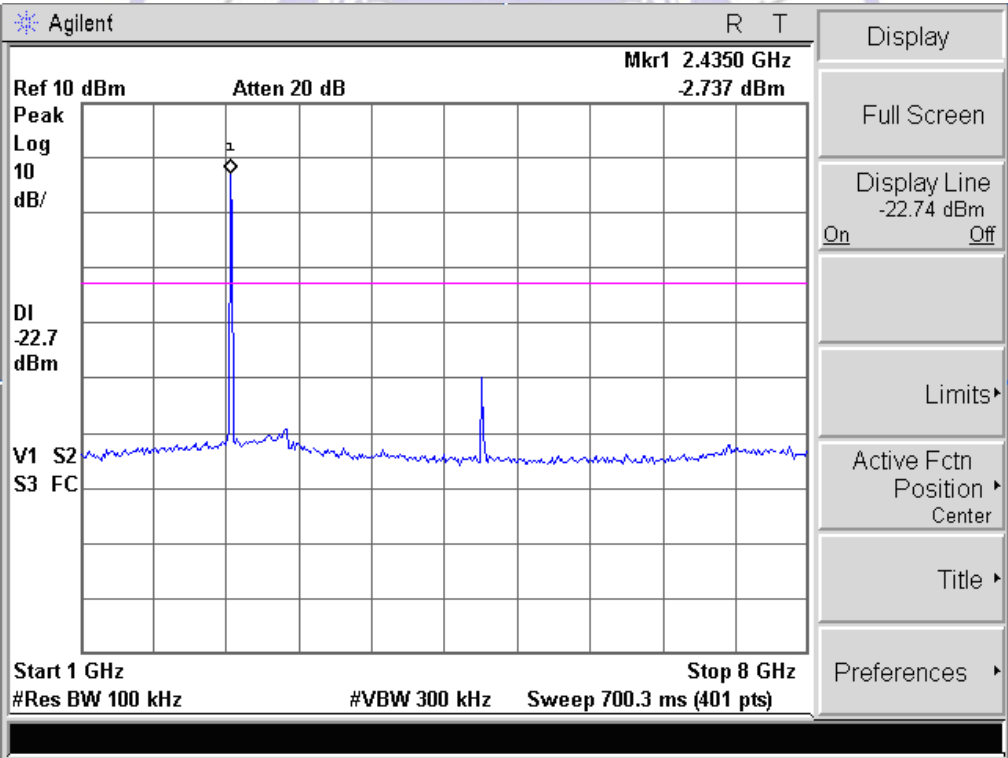
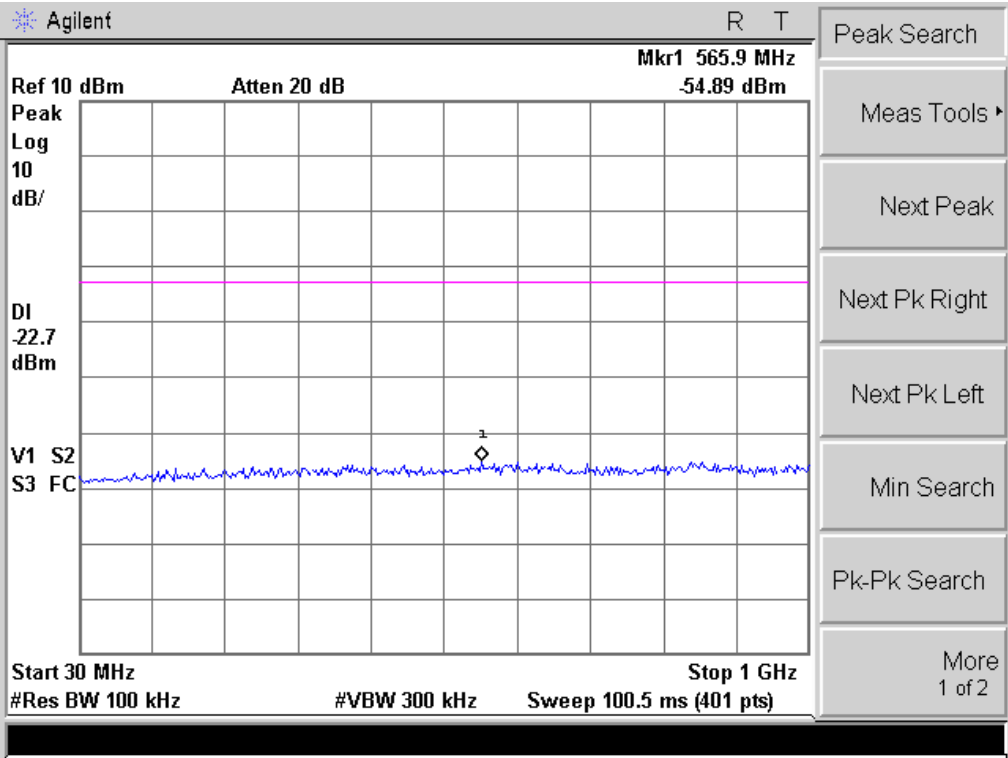
| | | |
|-----------|---|-------------------------------|
| Product | : | 7" Android Tablet PC |
| Test Item | : | RF Antenna Conducted Spurious |
| Test Mode | : | Mode 1: Transmit by 802.11b |

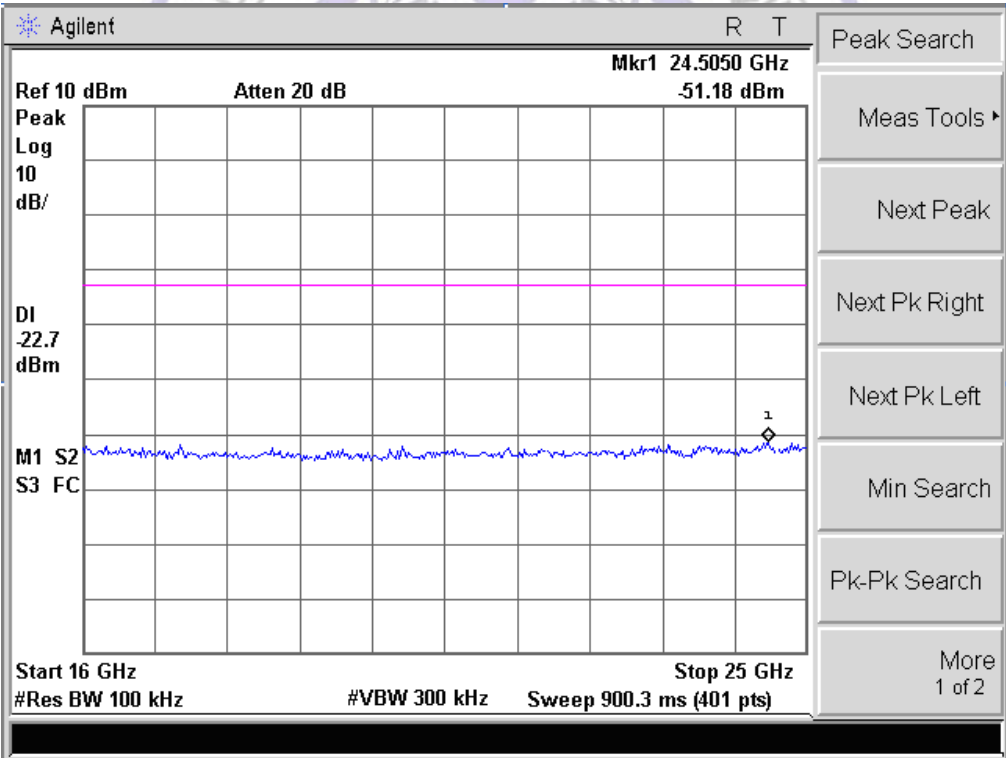
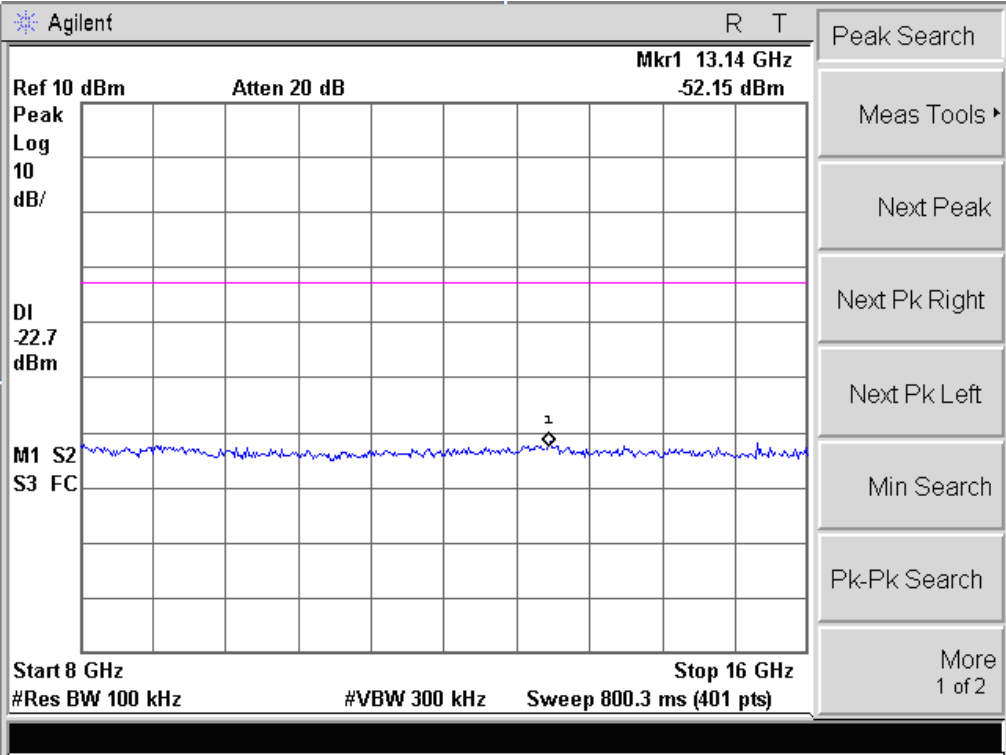




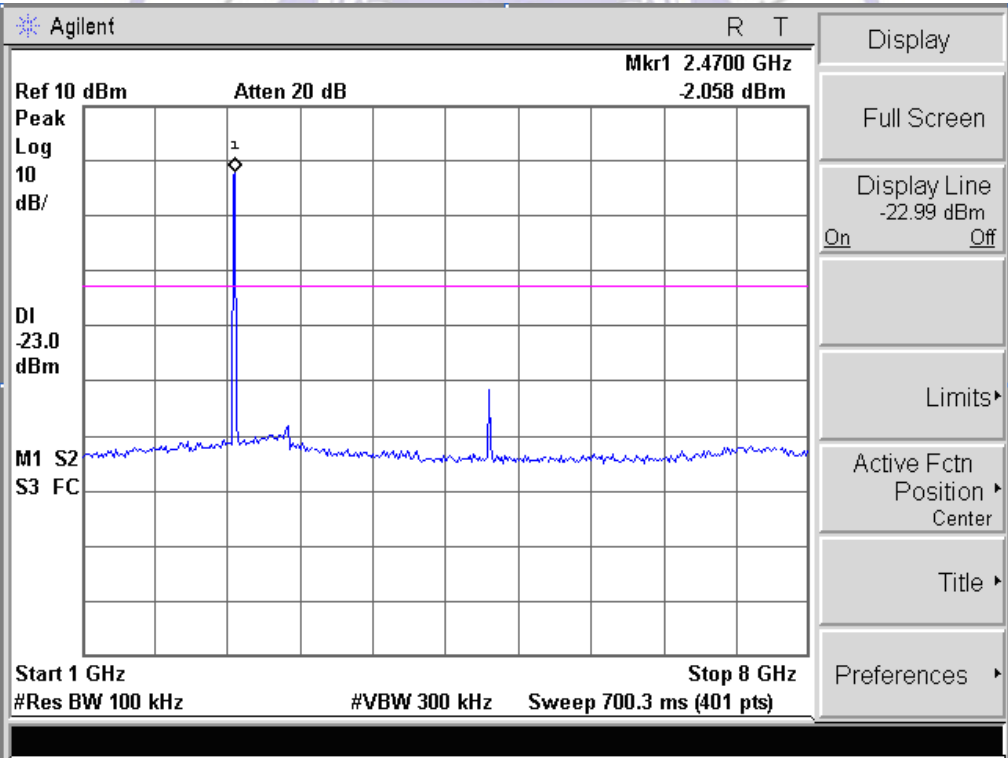
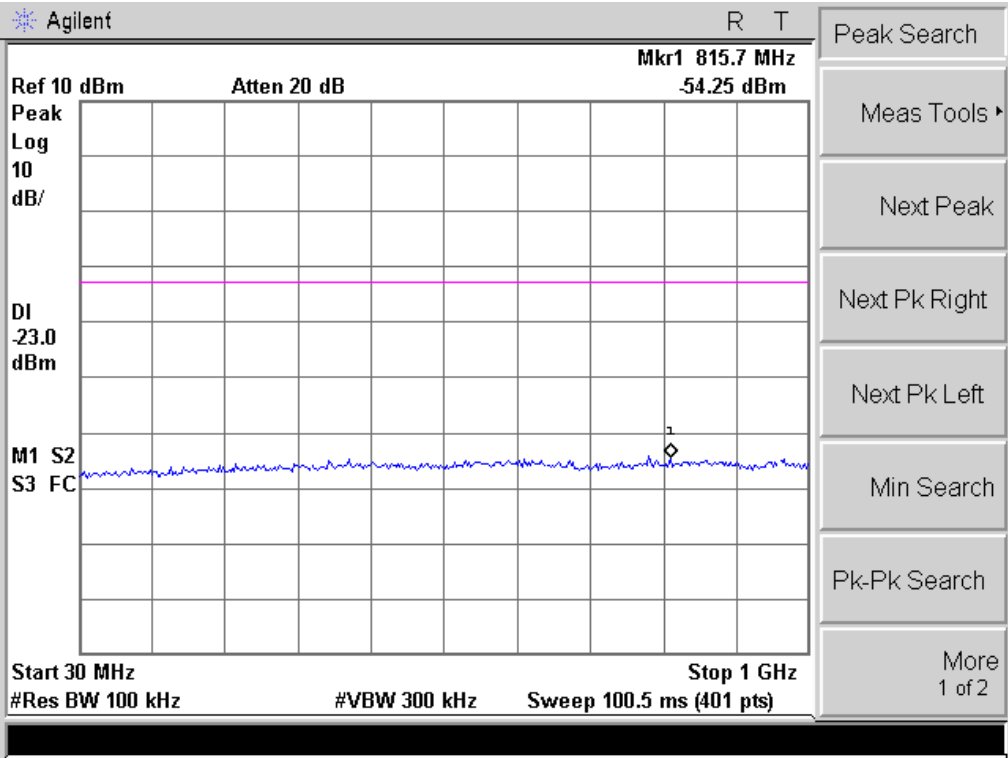


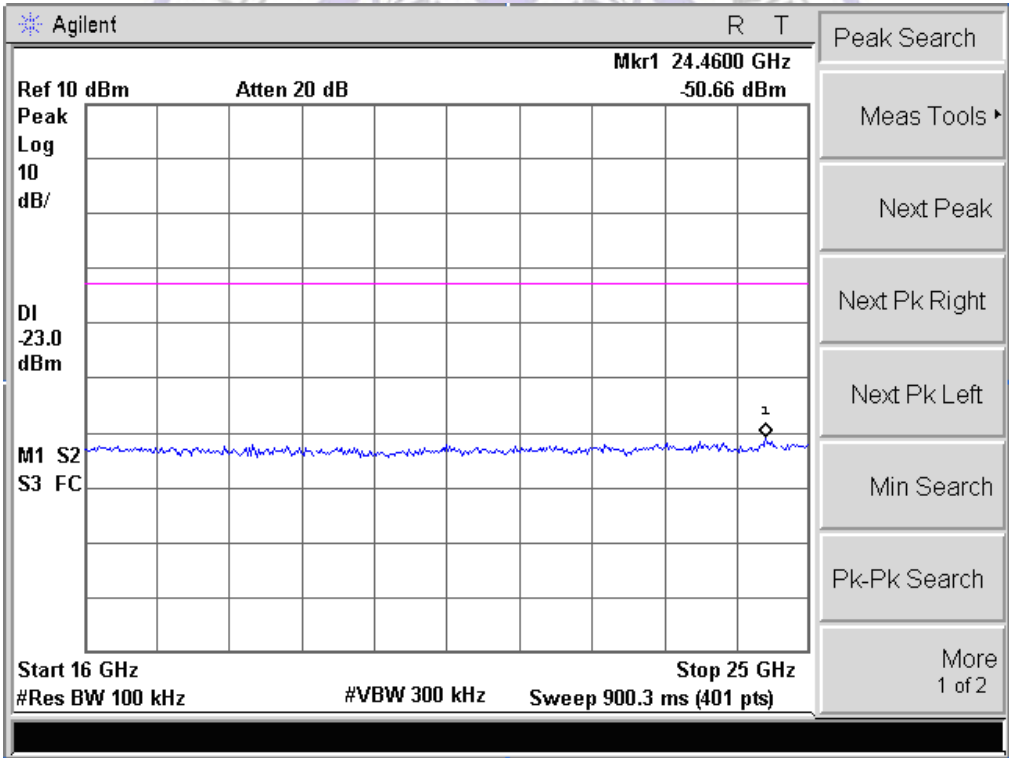
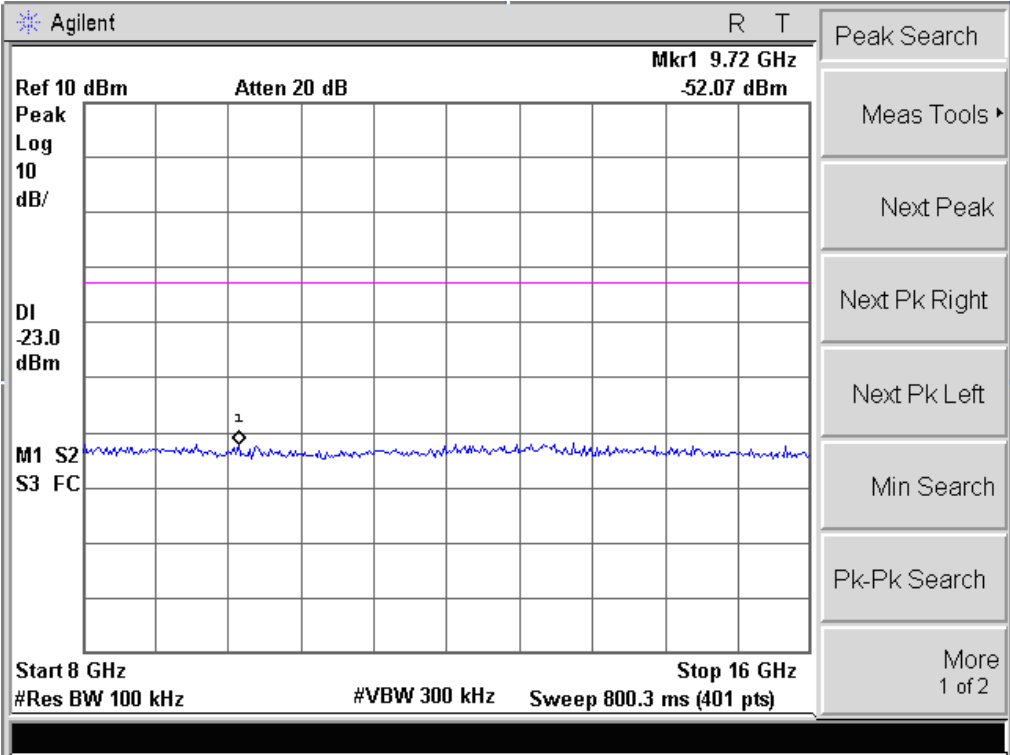
Channel 06 (2437MHz)





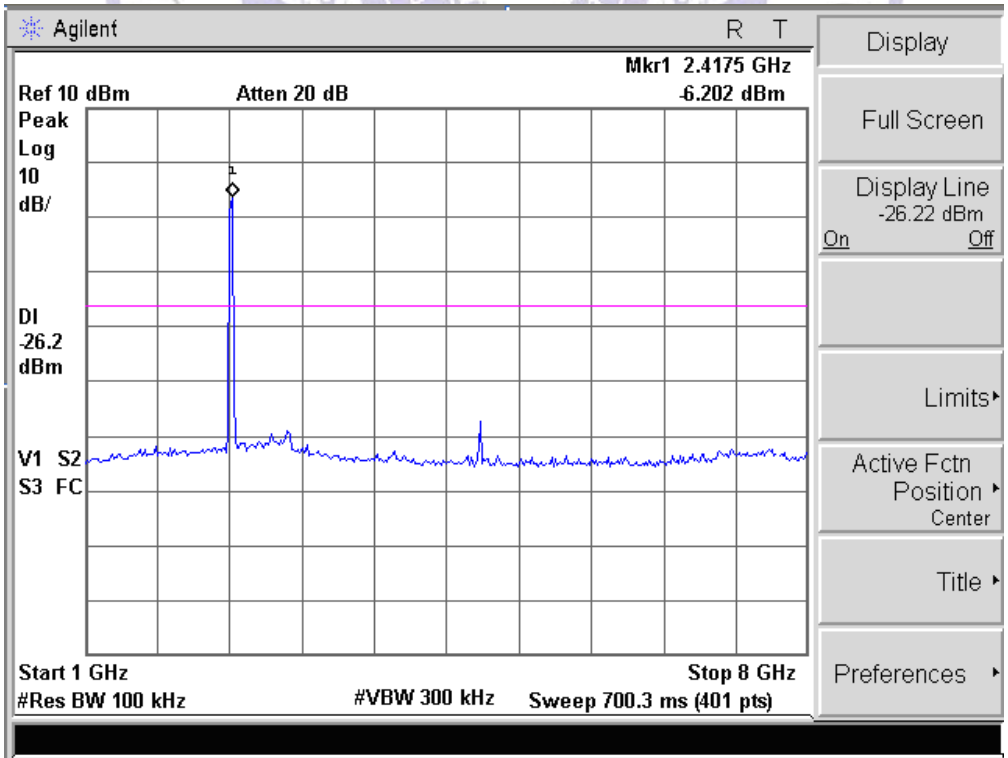
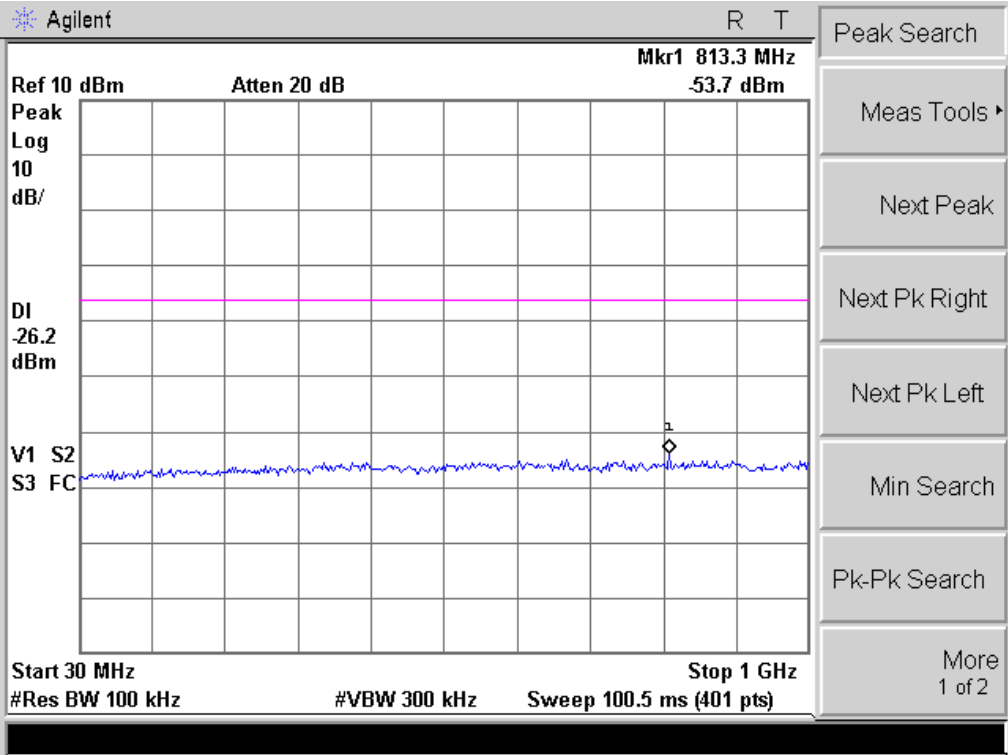
Channel 11 (2462MHz)

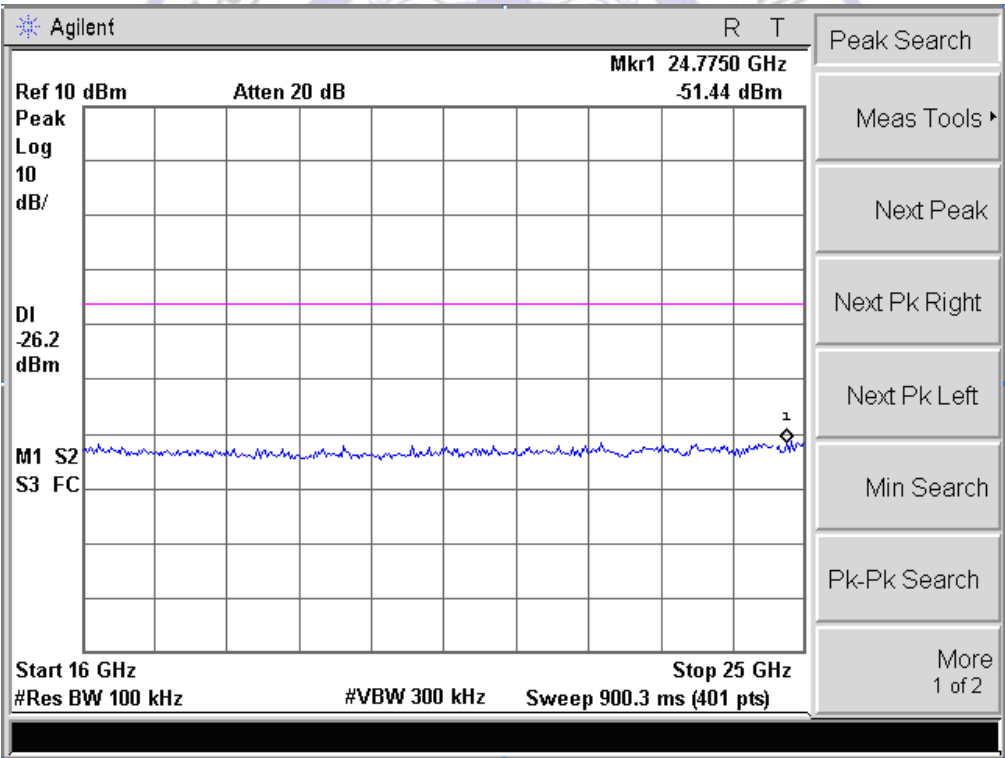
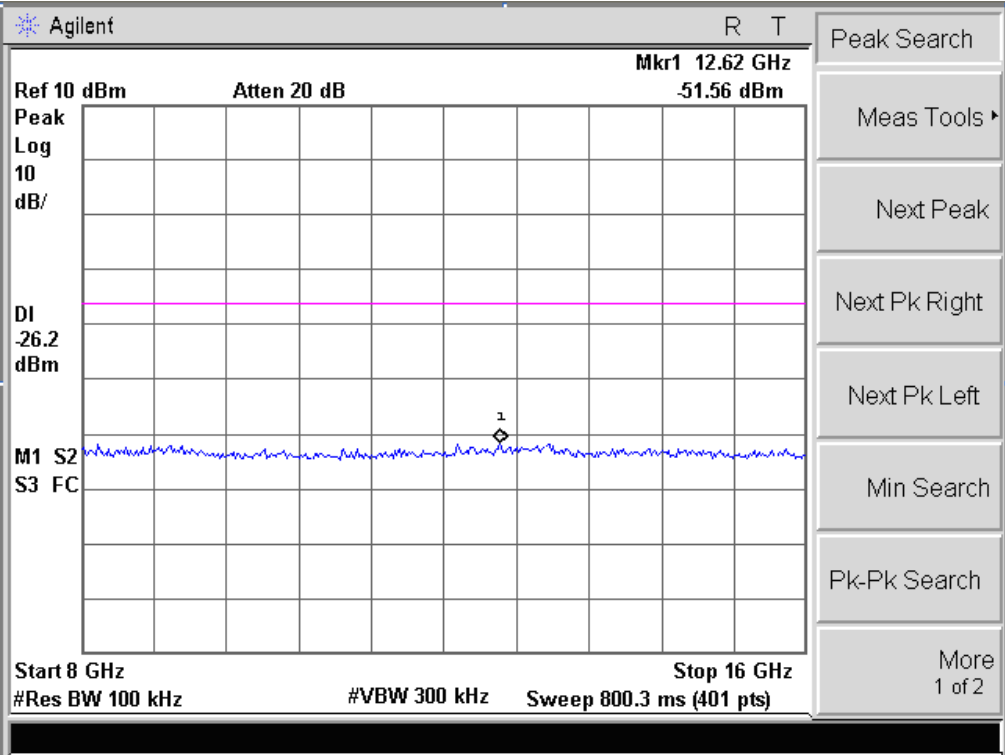




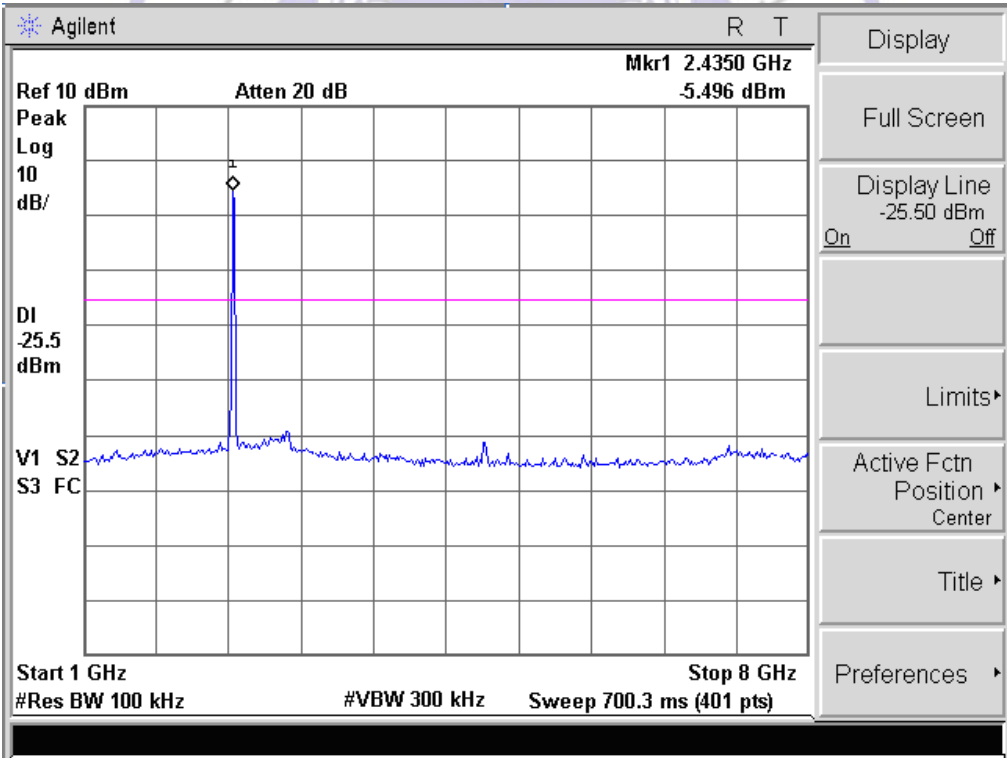
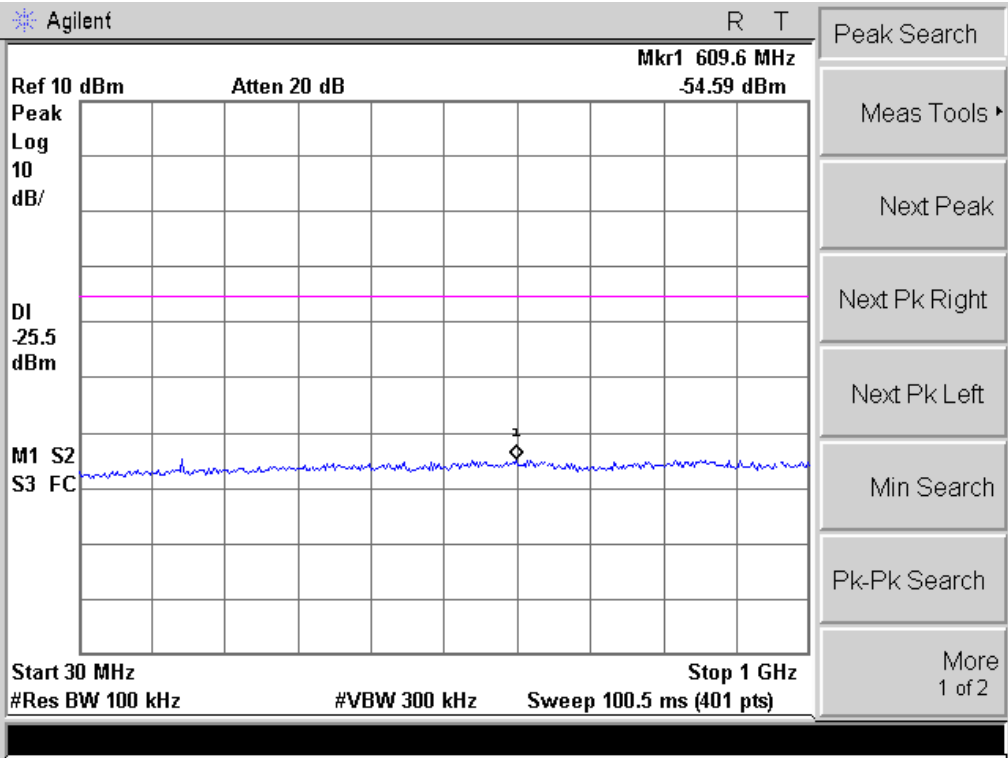
| | | |
|-----------|---|-------------------------------|
| Product | : | 7" Android Tablet PC |
| Test Item | : | RF Antenna Conducted Spurious |
| Test Mode | : | Mode 2: Transmit by 802.11g |

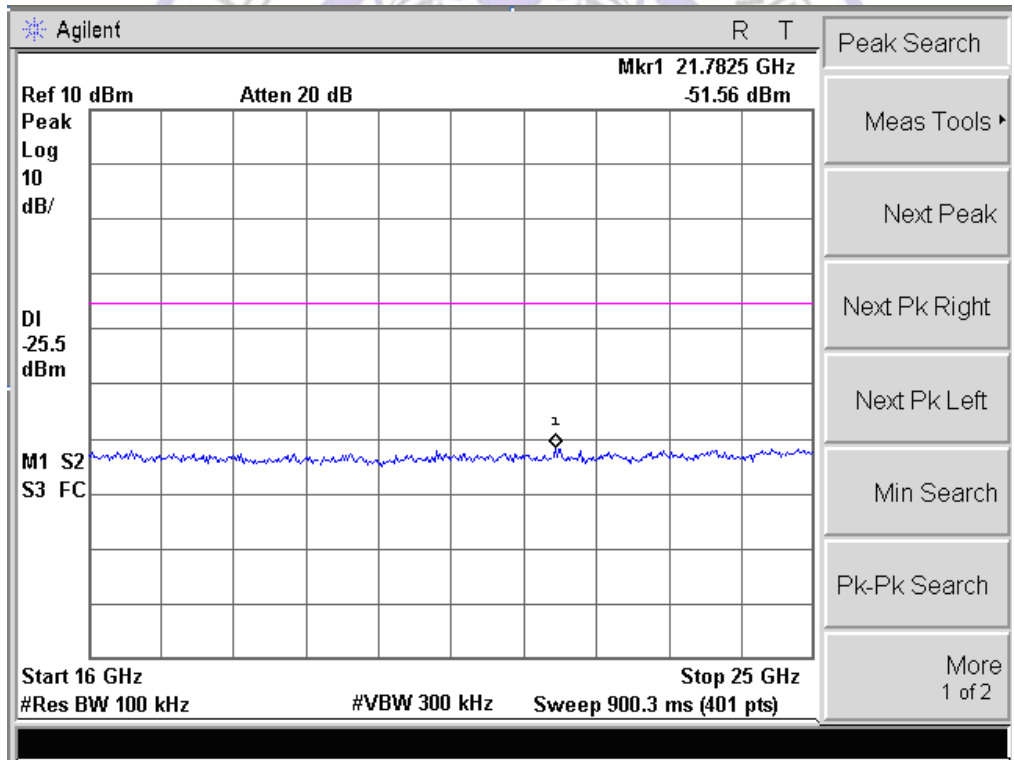
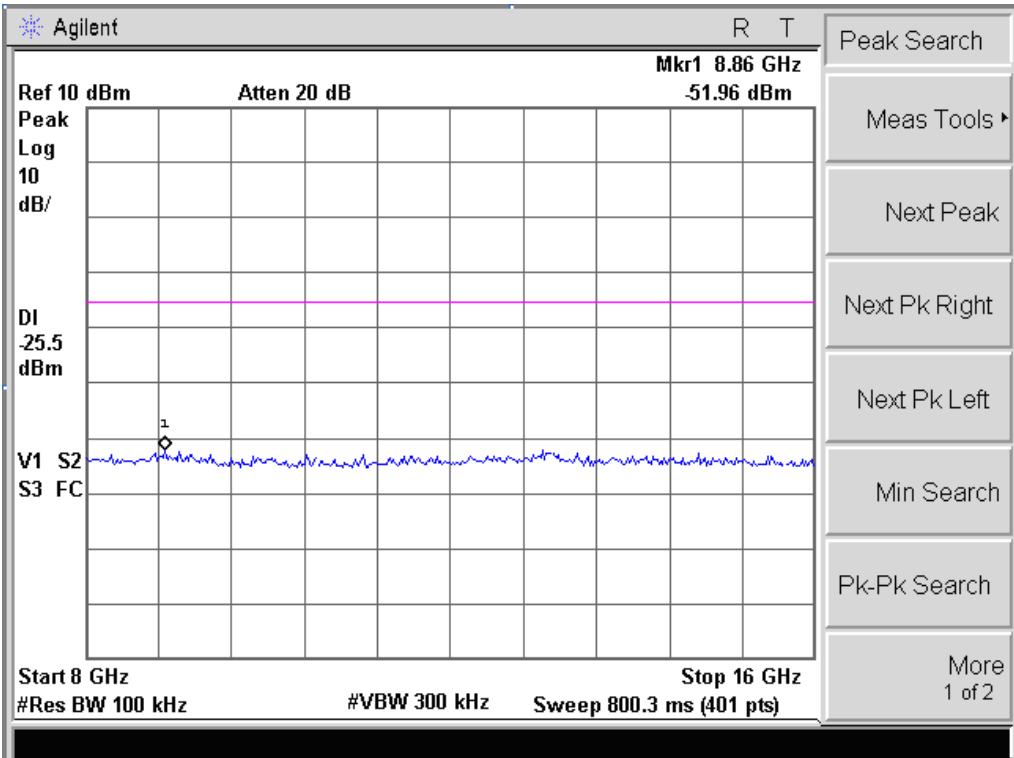
Channel 01 (2412MHz)



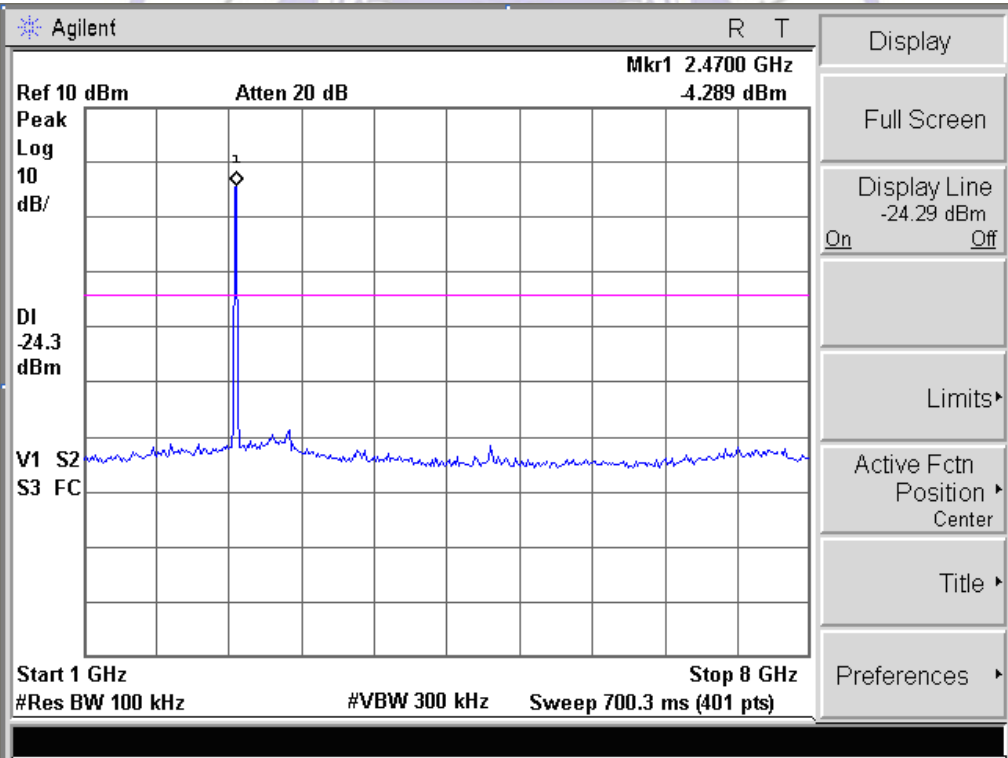
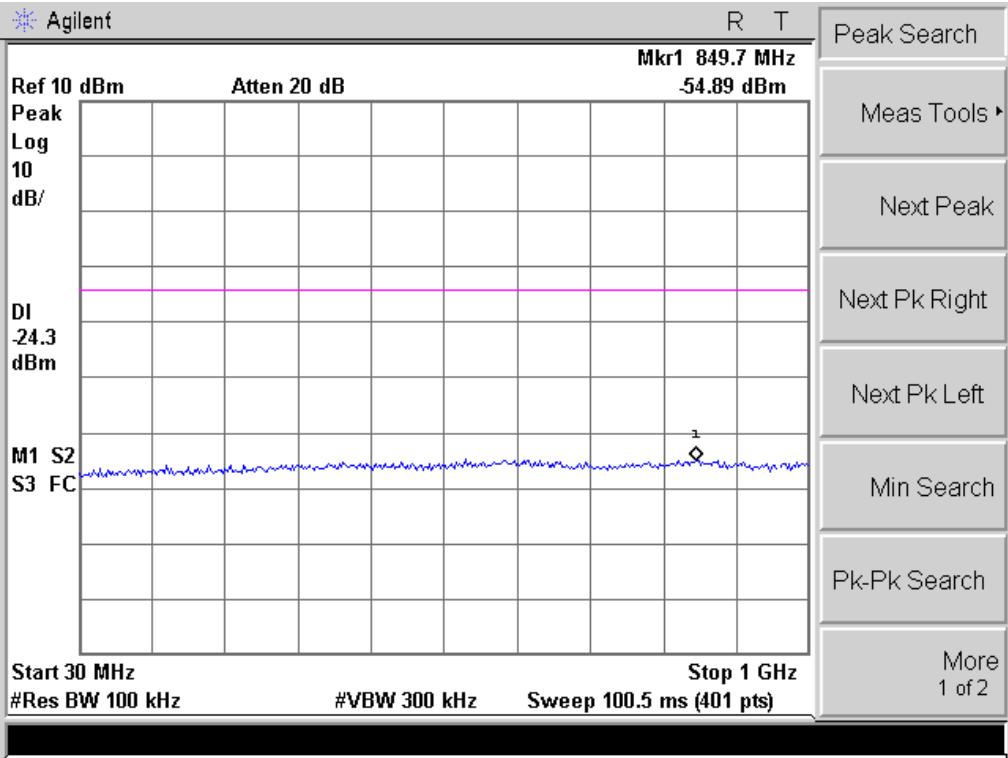


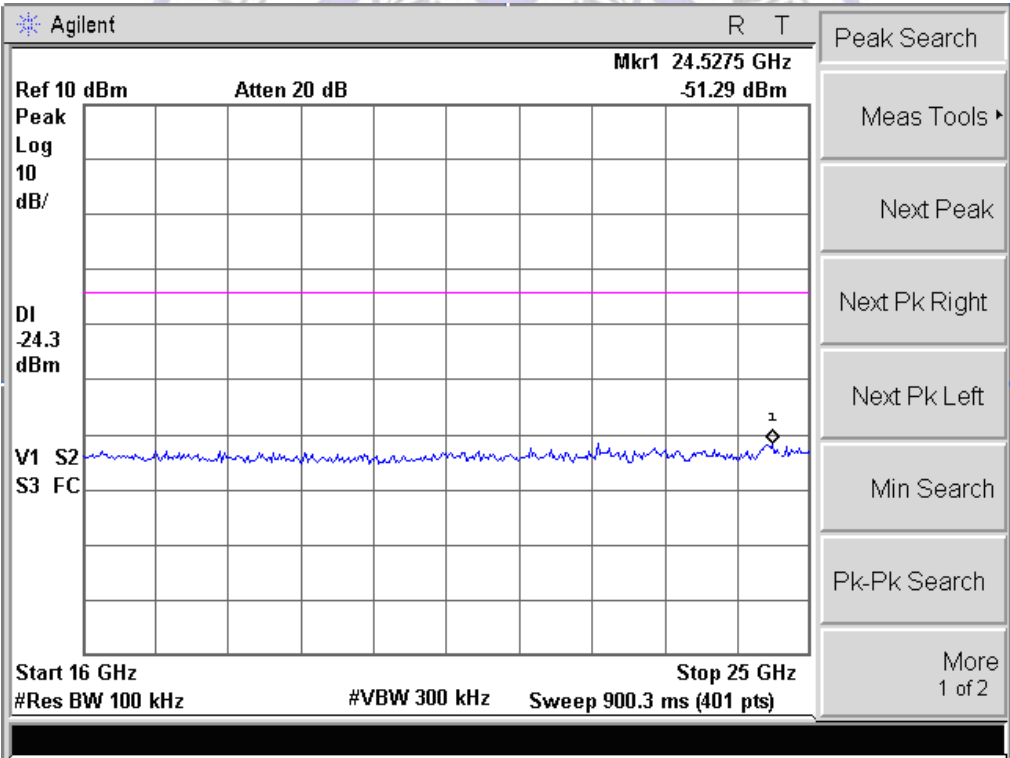
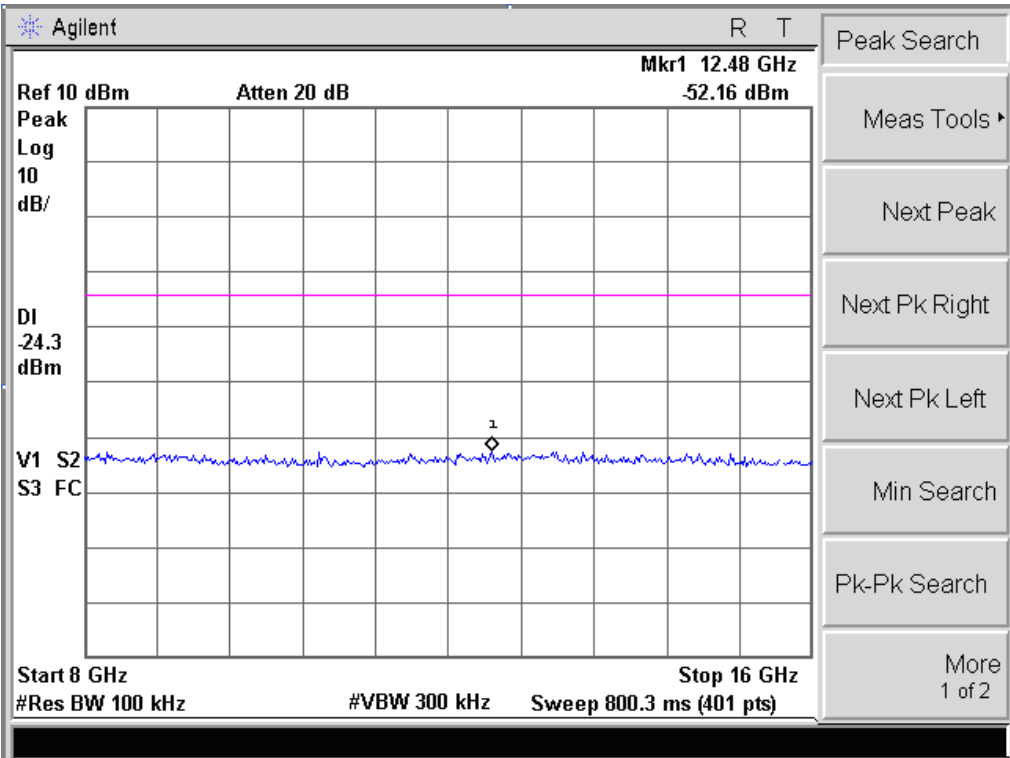
Channel 06 (2437MHz)





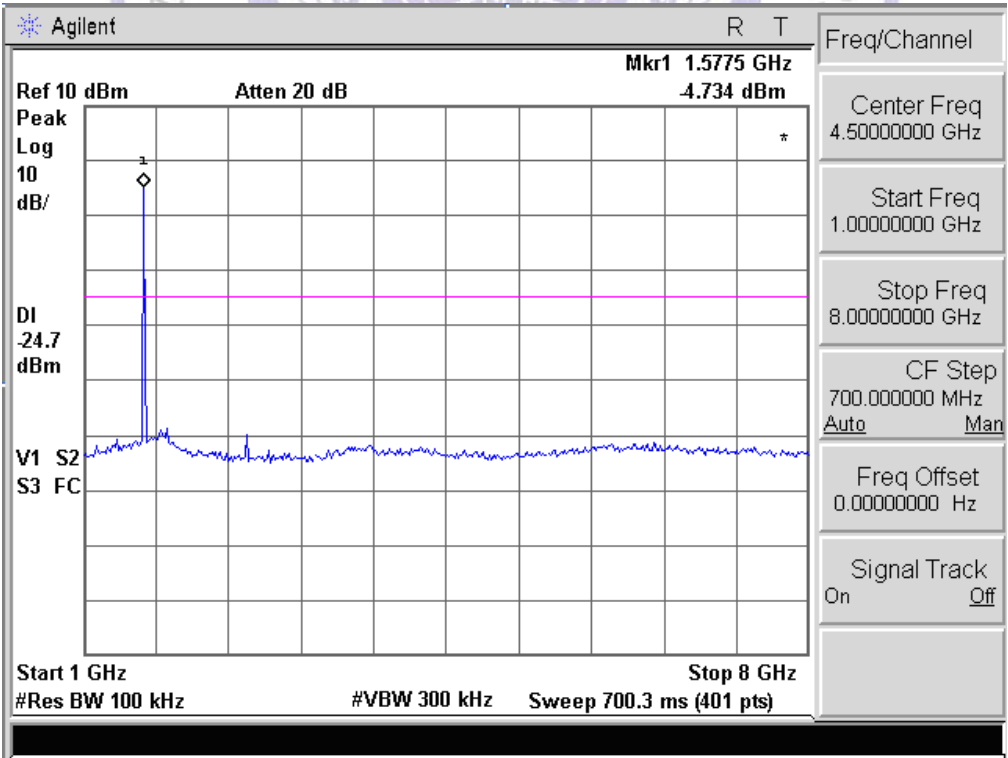
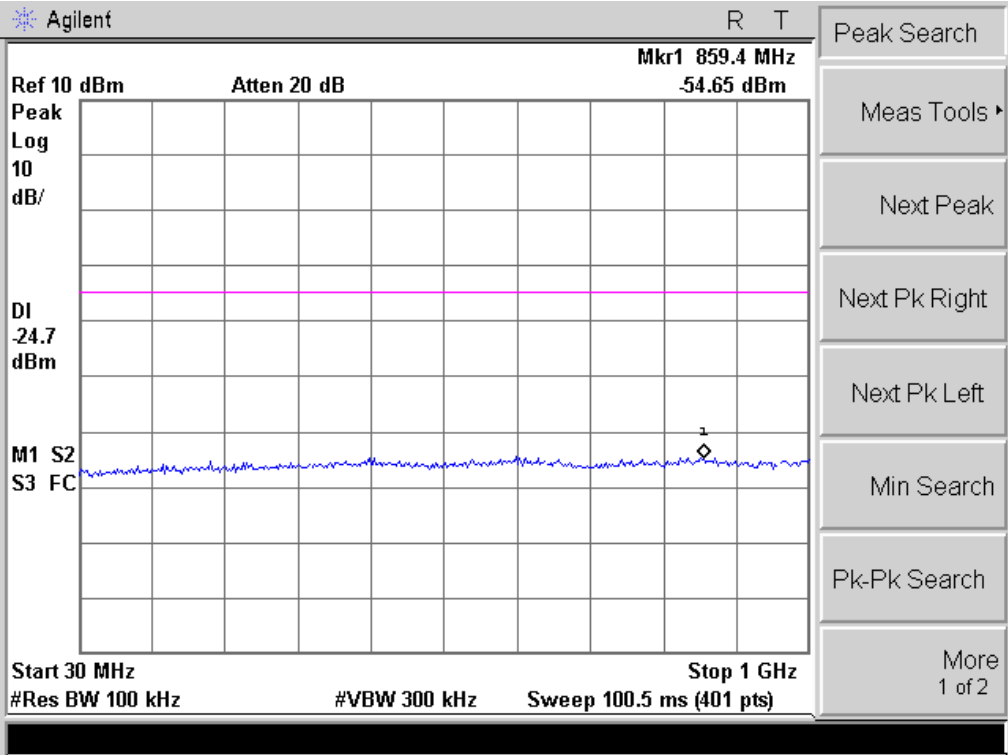
Channel 11 (2462MHz)

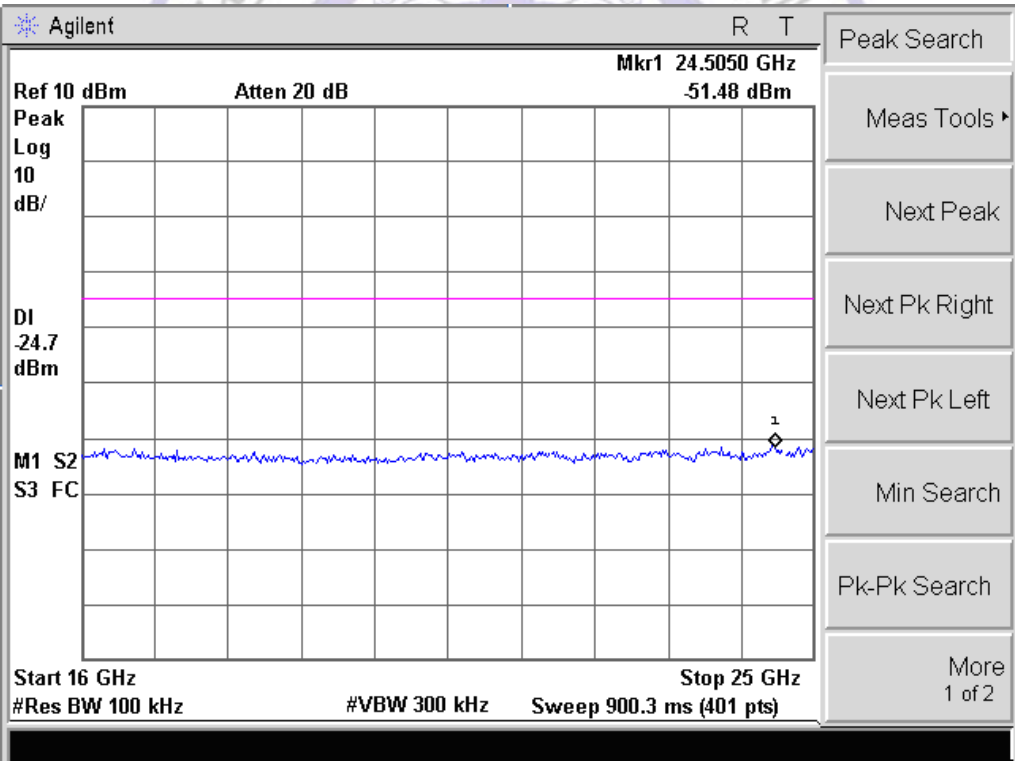
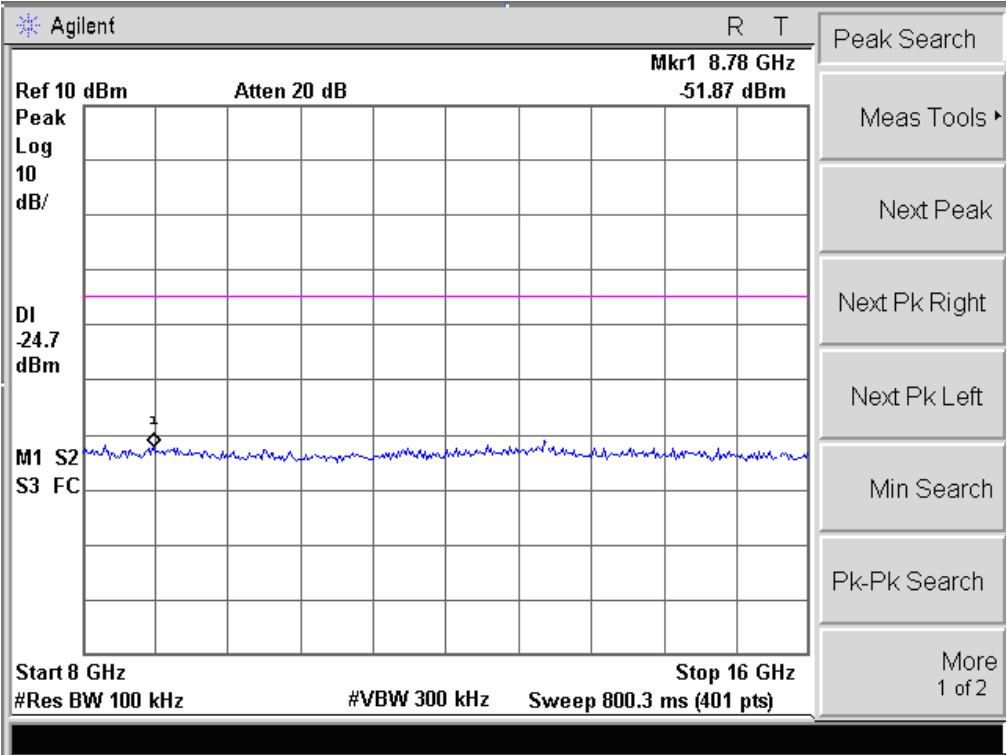




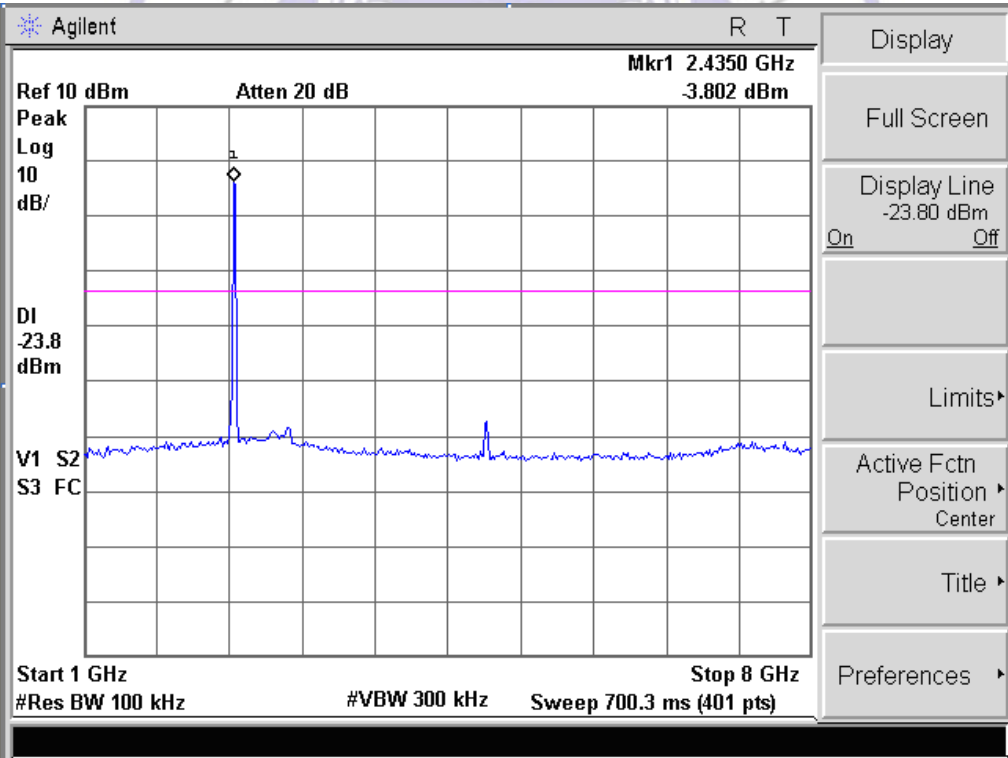
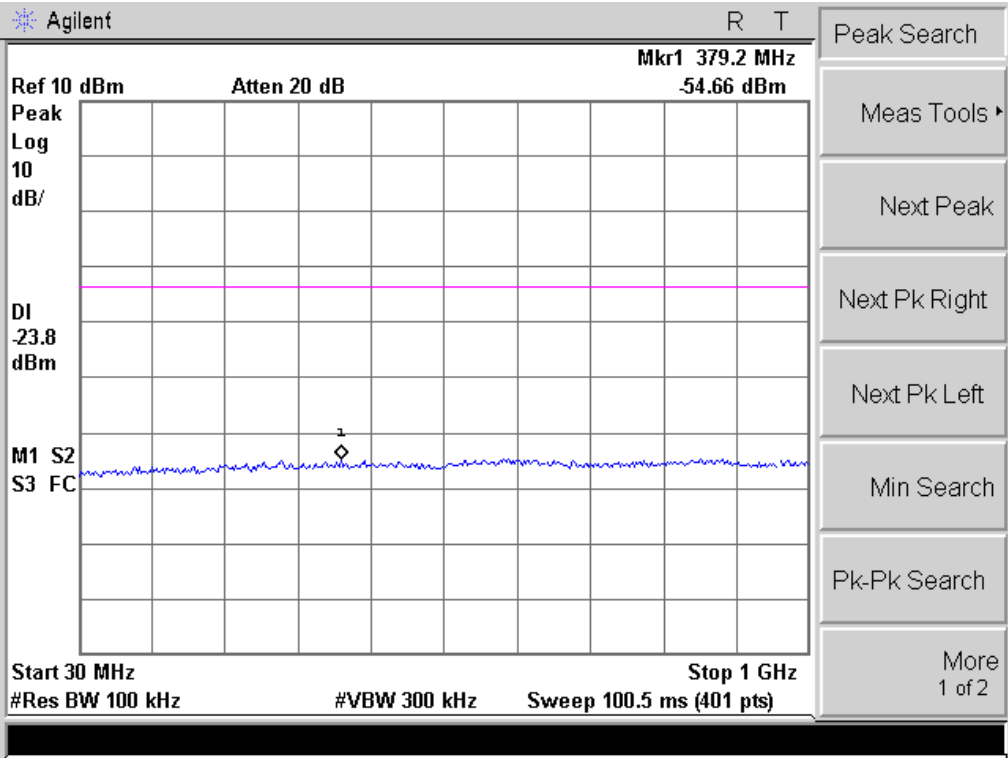
| | | |
|-----------|---|-------------------------------------|
| Product | : | 7" Android Tablet PC |
| Test Item | : | RF Antenna Conducted Spurious |
| Test Mode | : | Mode 3: Transmit by 802.11n (20MHz) |

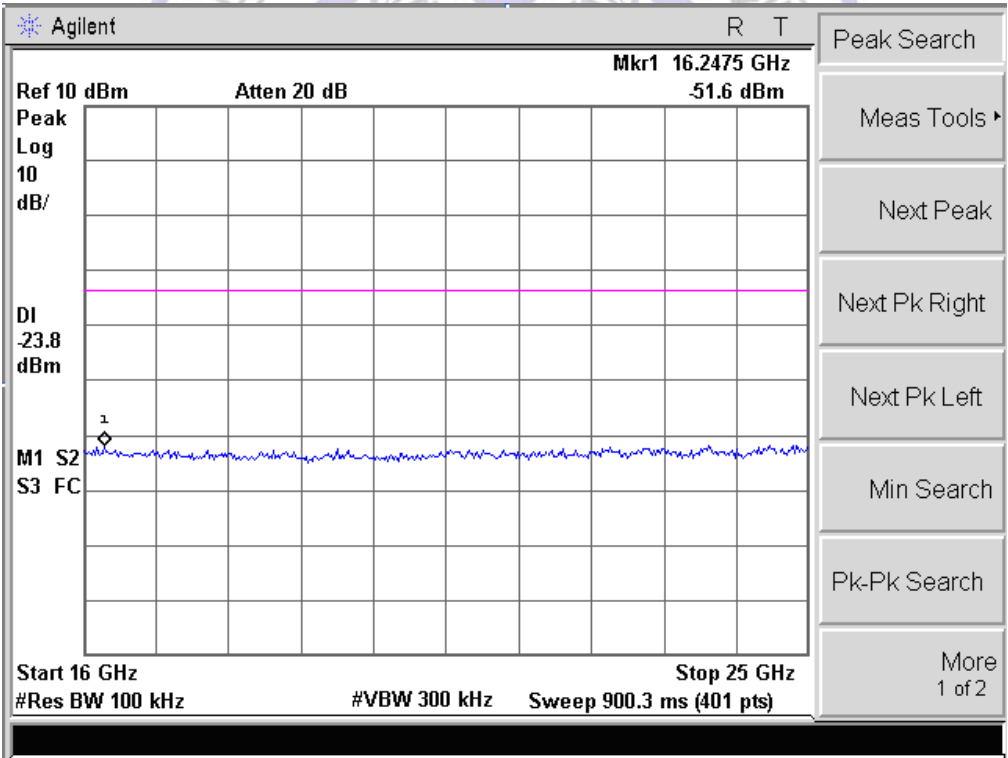
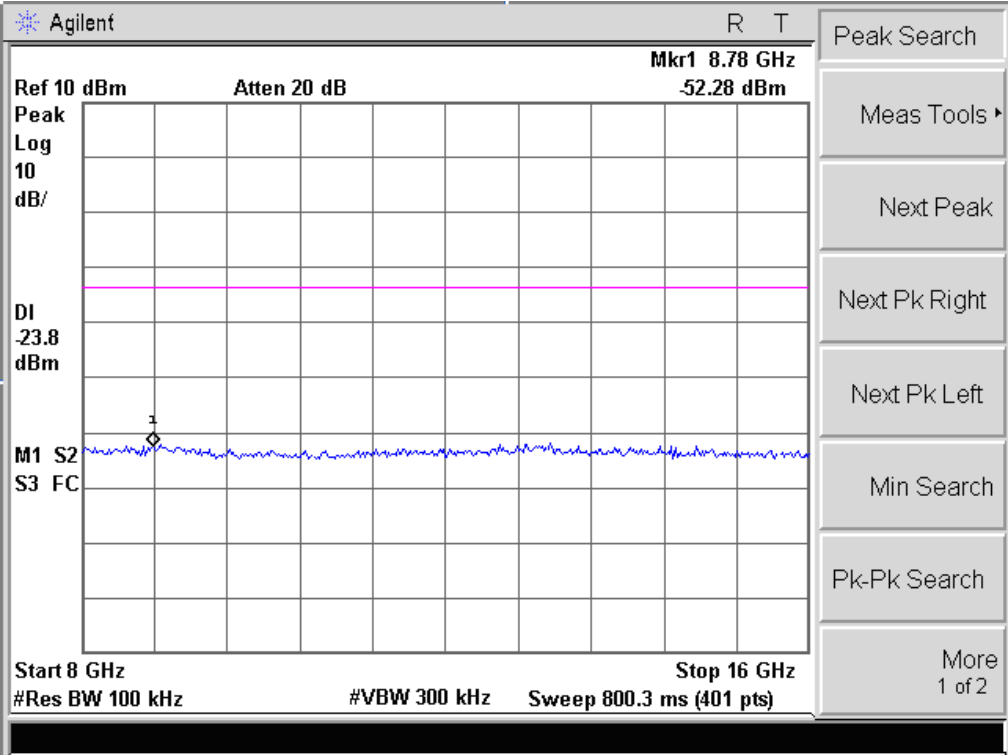
Channel 01 (2412MHz)



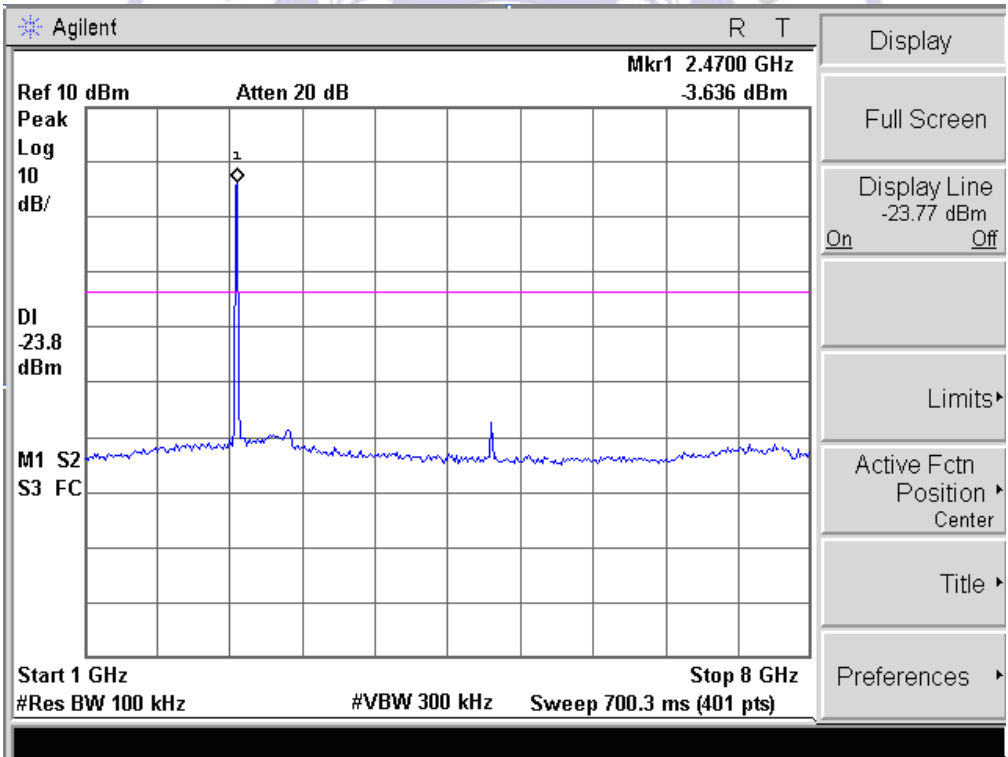
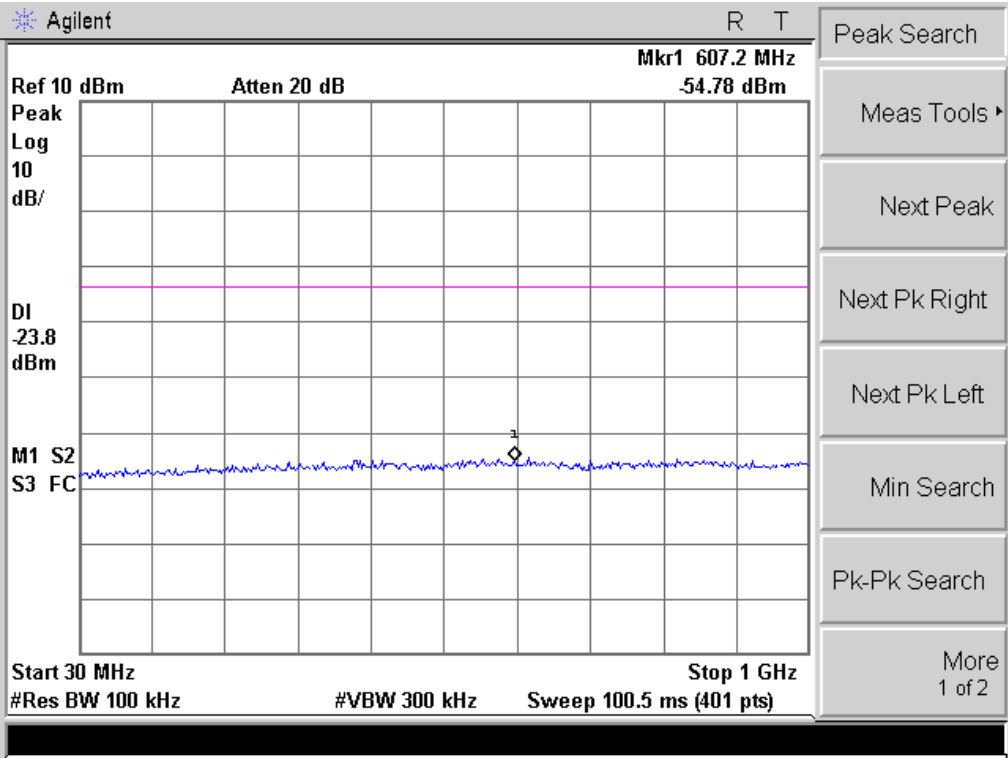


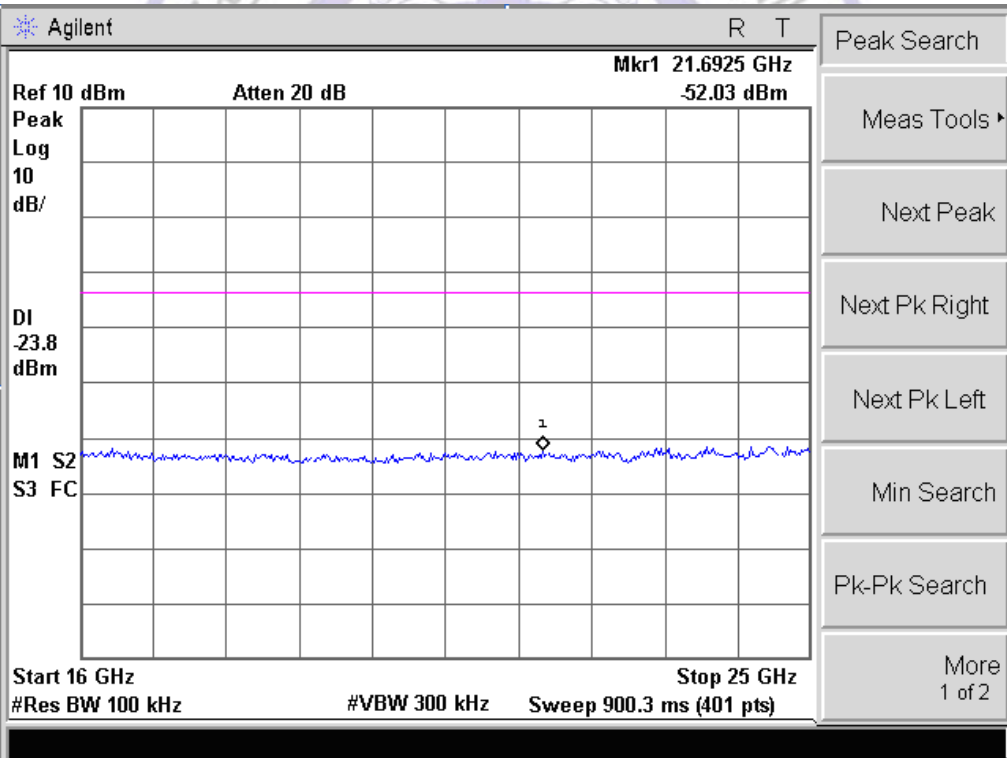
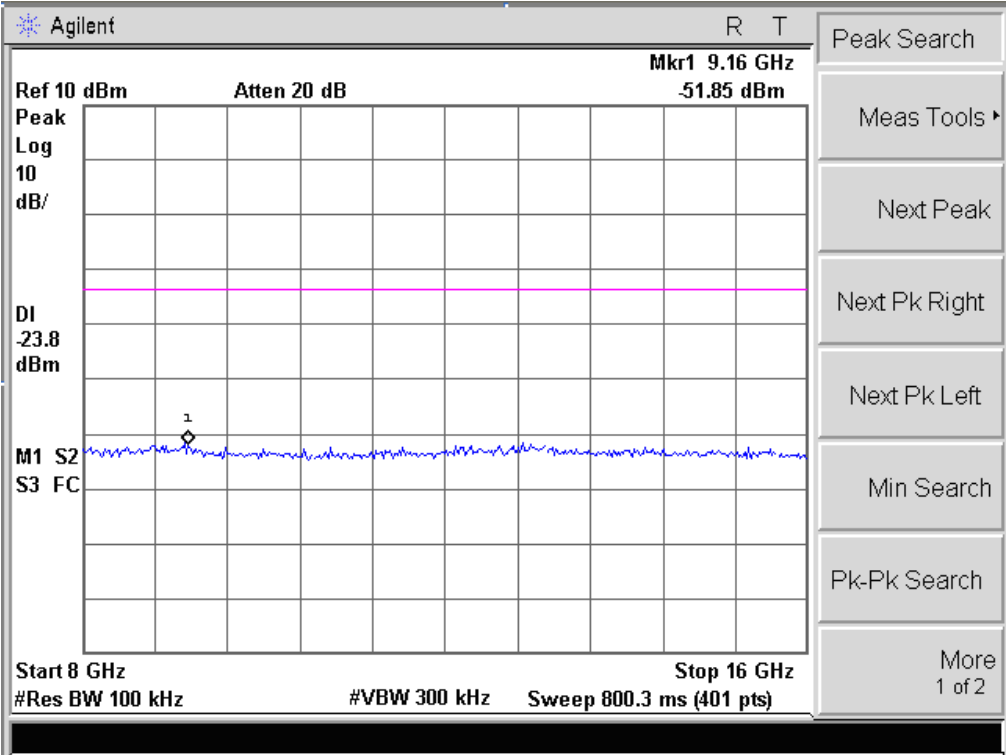
Channel 06 (2437MHz)





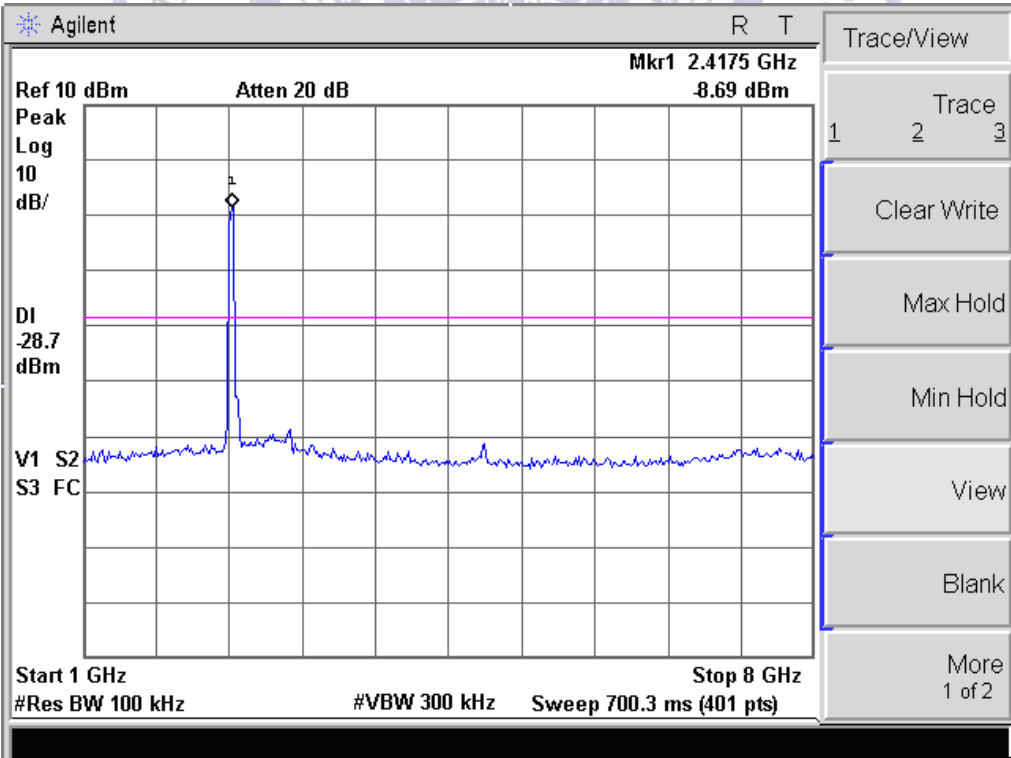
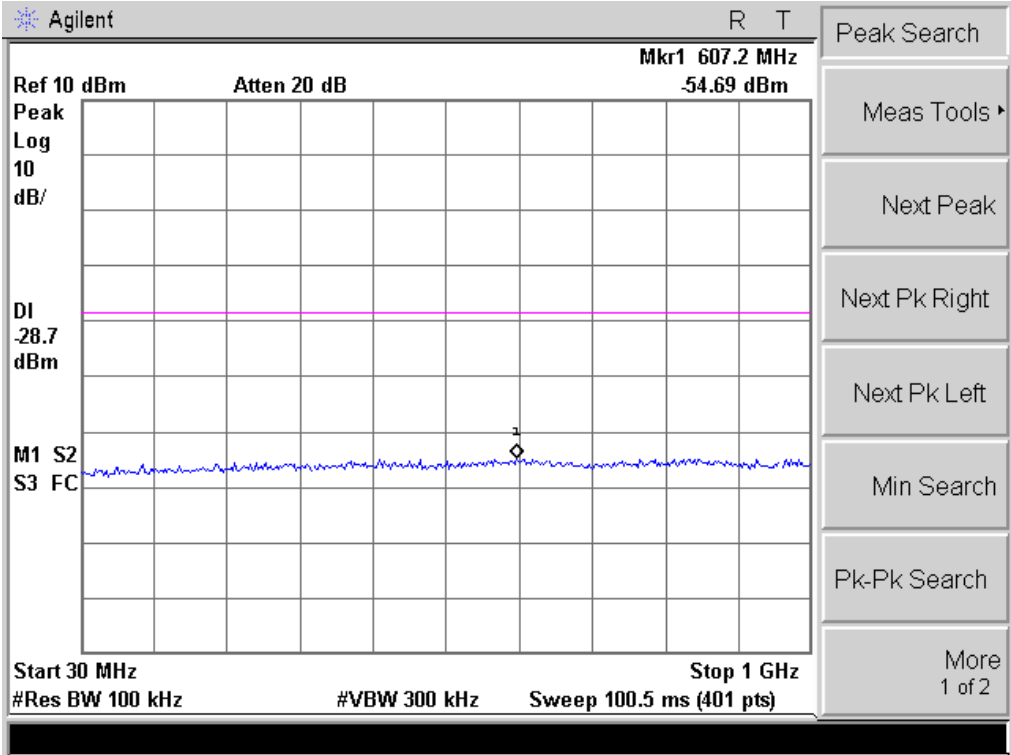
Channel 11 (2462MHz)

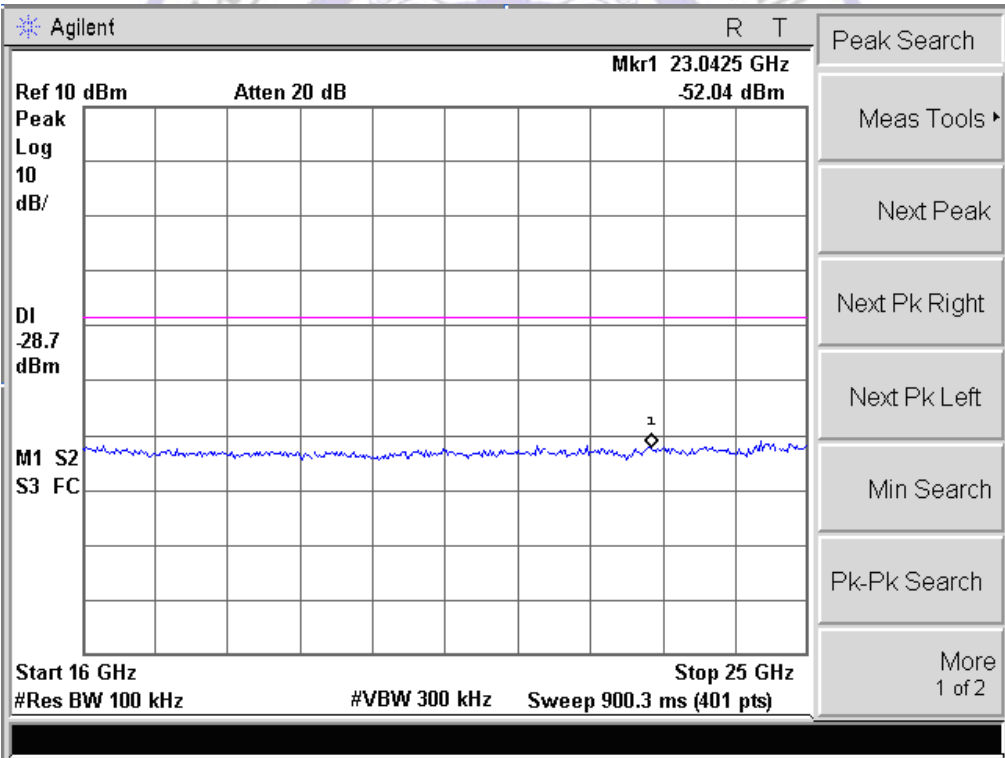
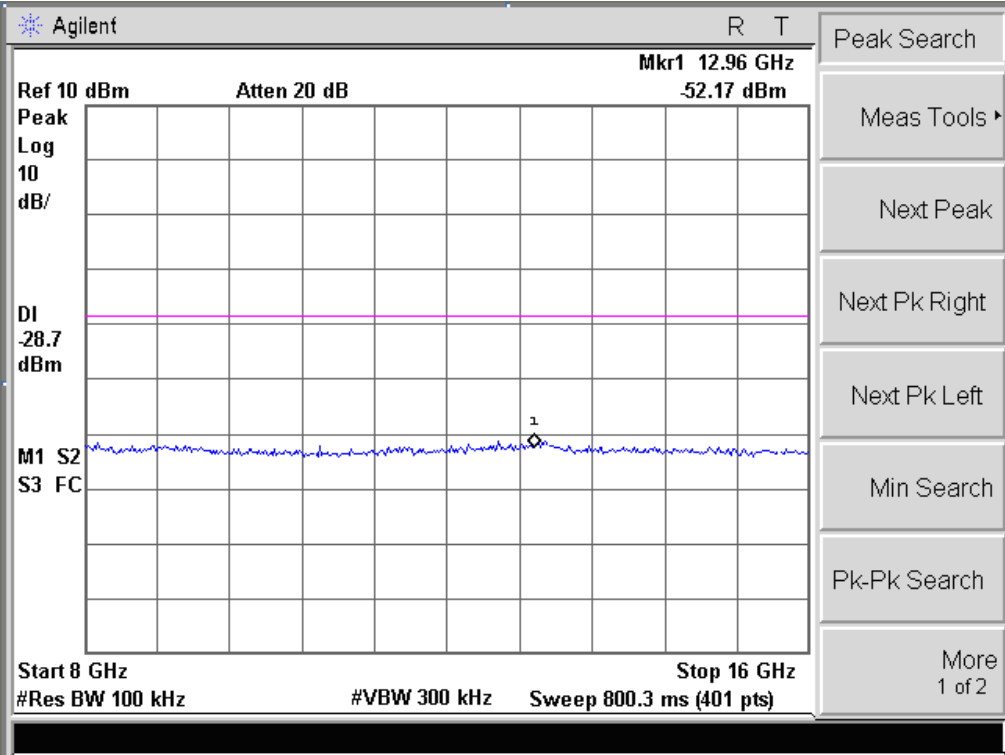




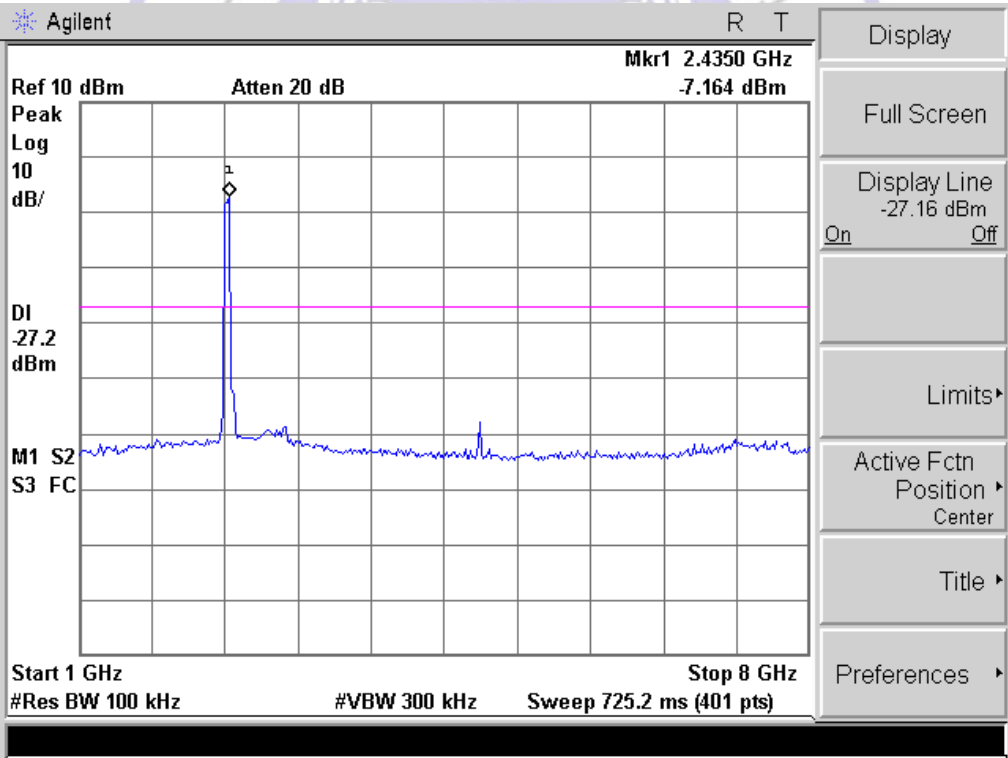
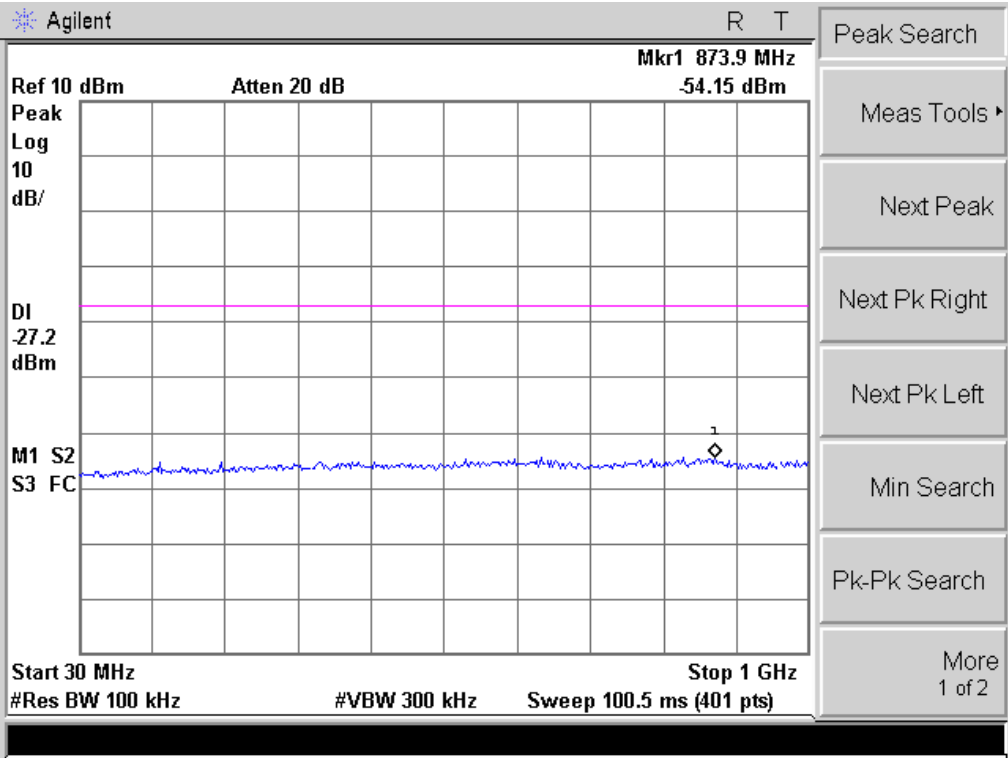
| | | |
|-----------|---|-------------------------------------|
| Product | : | 7" Android Tablet PC |
| Test Item | : | RF Antenna Conducted Spurious |
| Test Mode | : | Mode 4: Transmit by 802.11n (40MHz) |

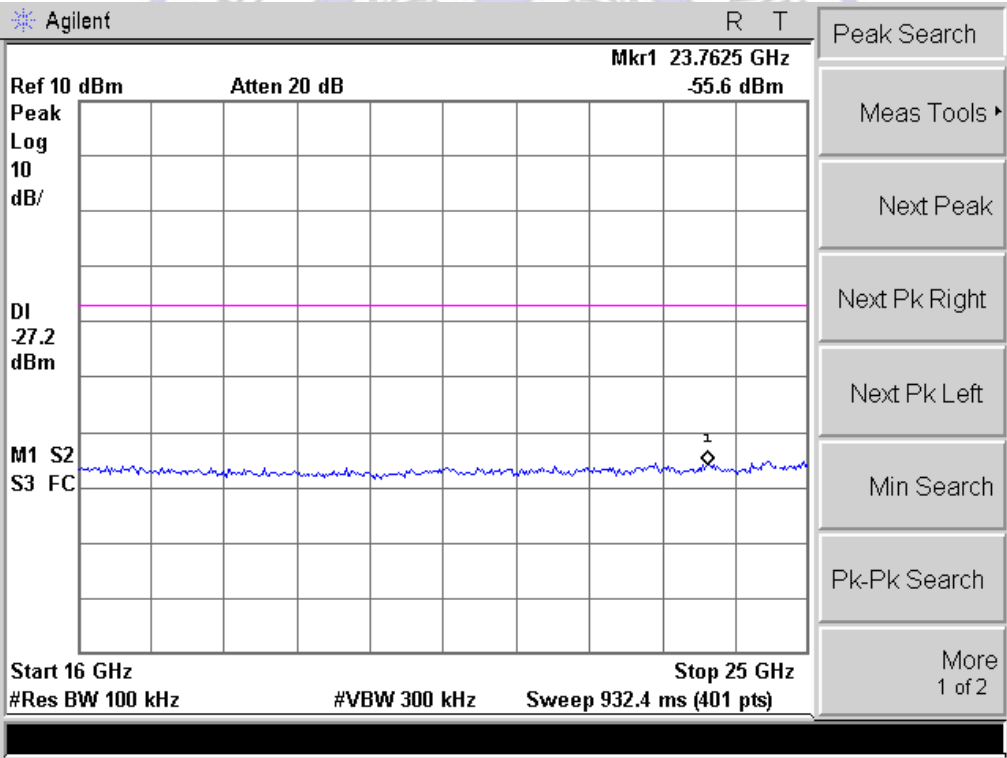
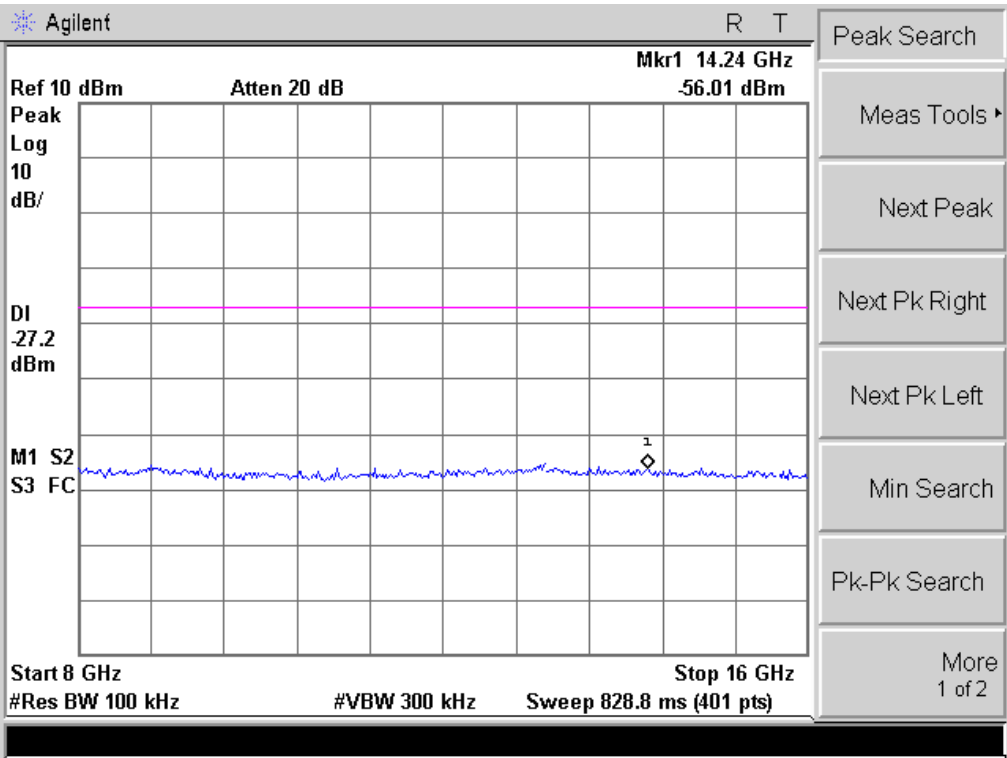
Channel 03 (2422MHz)



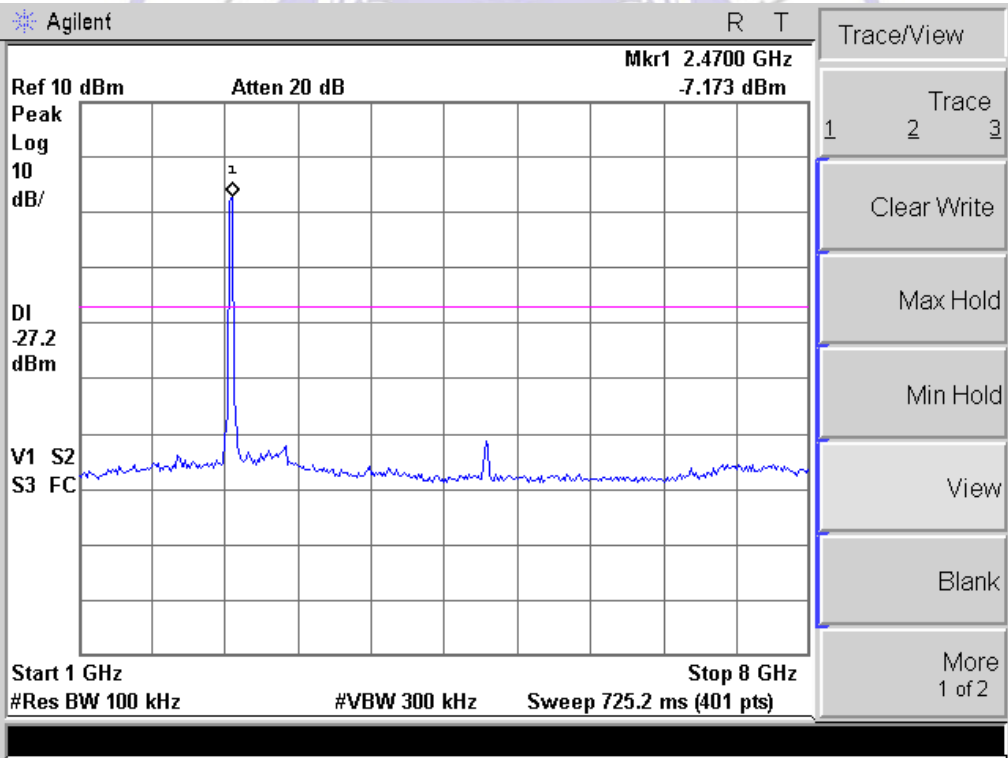
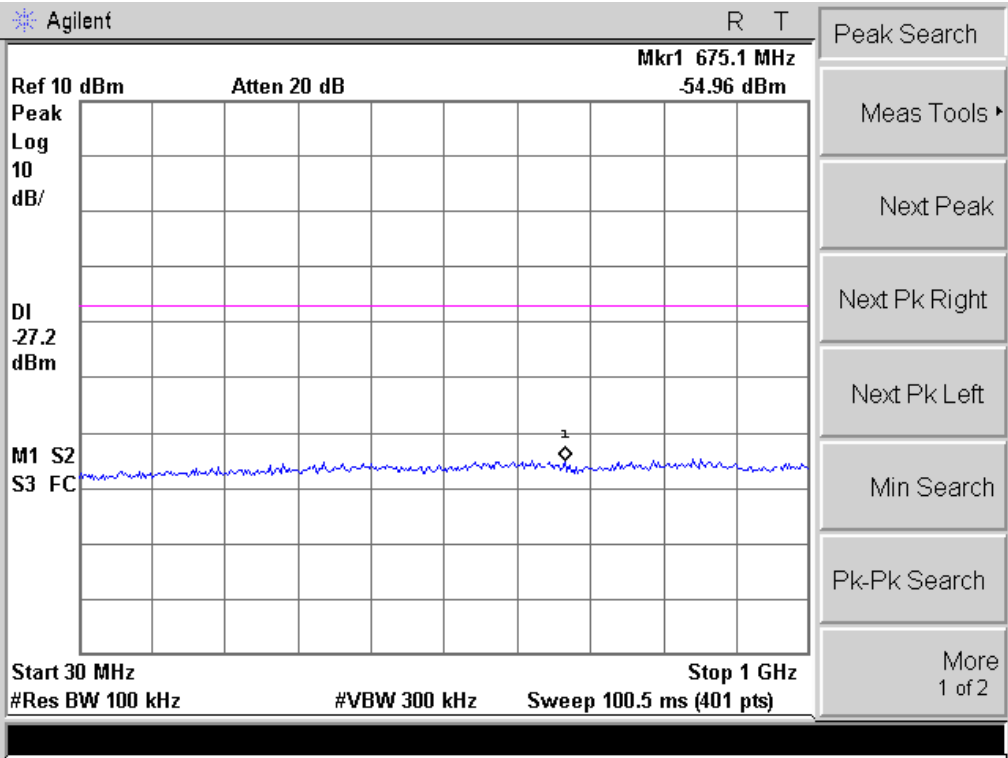


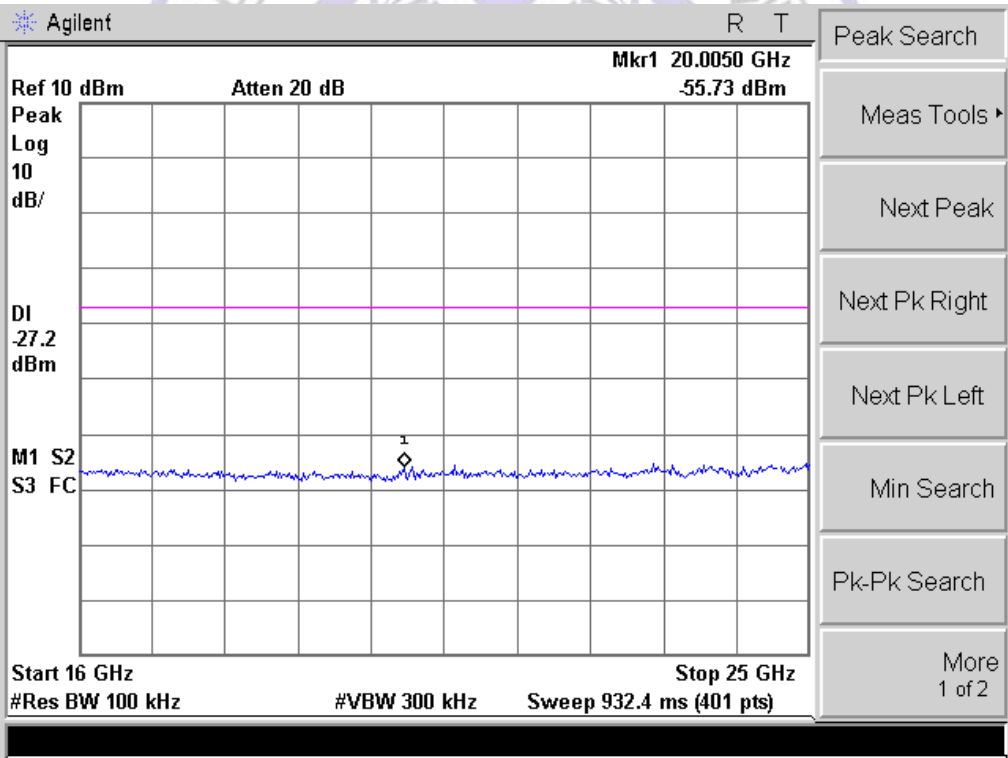
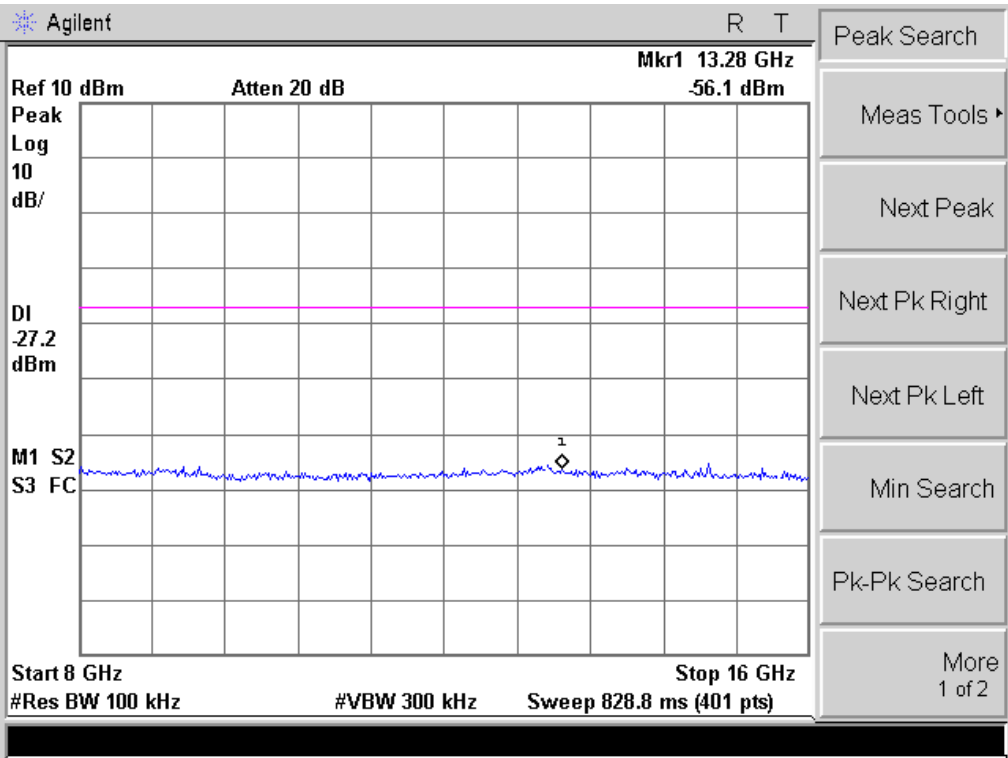
Channel 06 (2437MHz)





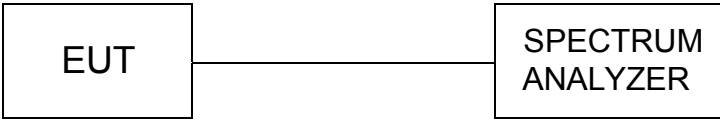
Channel 09 (2452MHz)





4.8. Operation Frequency Range of 20dB Bandwidth

TEST CONFIGURATION



TEST PROCEDURE

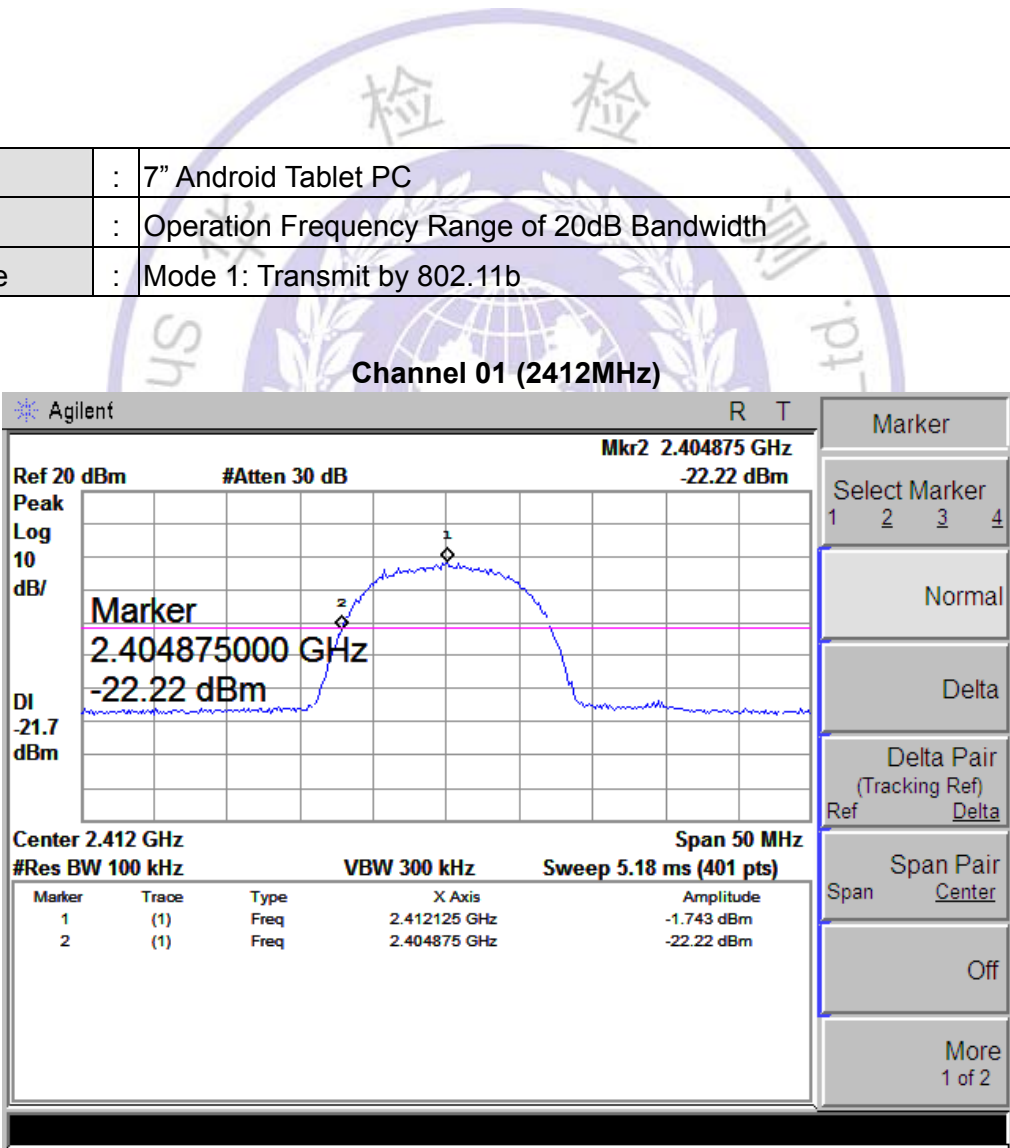
The EUT was tested according to KDB558074 D01 v03r01 for compliance to FCC 47CFR 15.247 requirements. Set RBW = 100 kHz, Span greater than RBW.

LIMIT

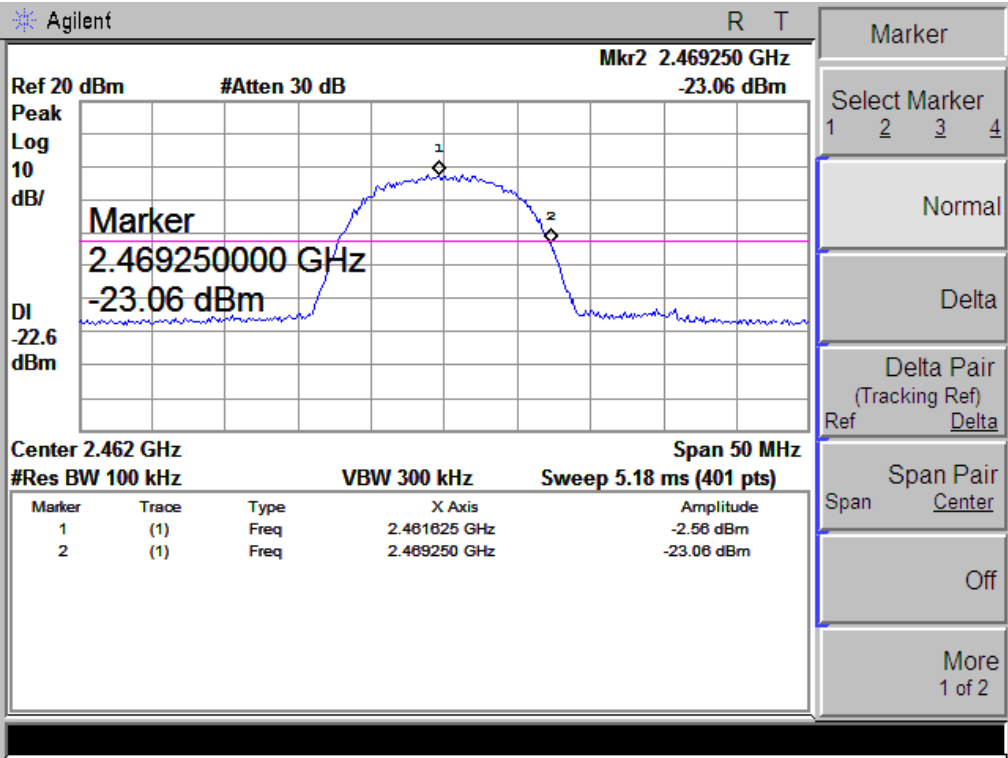
20 dB bandwidth of the emission is contained within the operation frequency band.

TEST RESULT

| | | |
|-----------|---|---|
| Product | : | 7" Android Tablet PC |
| Test Item | : | Operation Frequency Range of 20dB Bandwidth |
| Test Mode | : | Mode 1: Transmit by 802.11b |

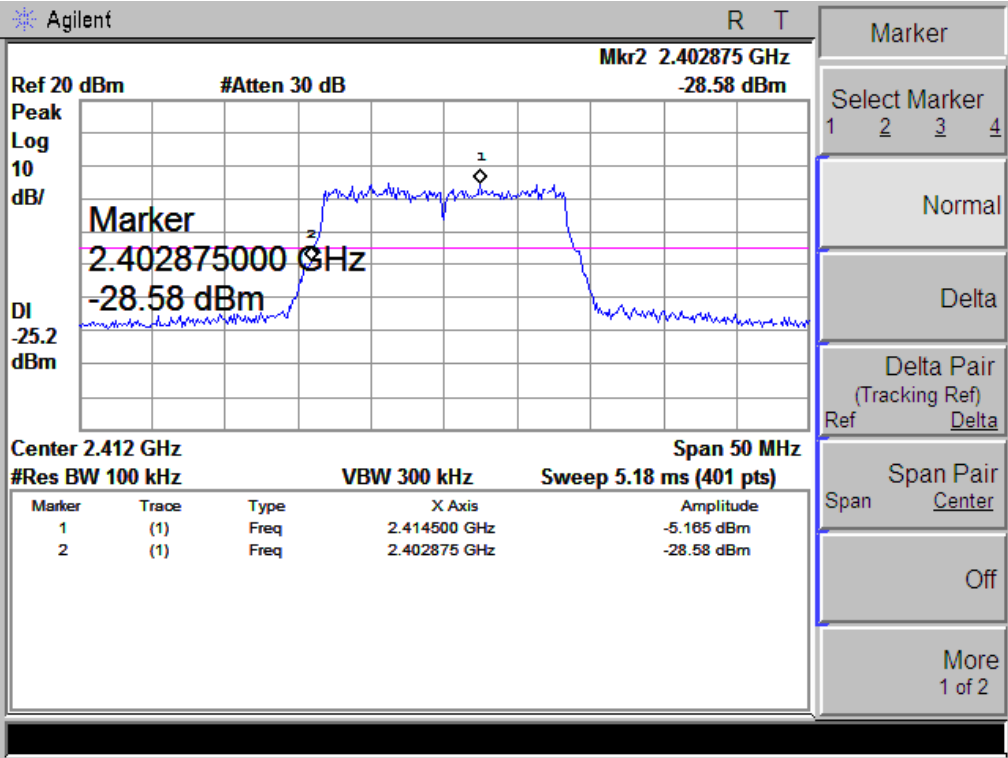


Channel 11 (2462MHz)

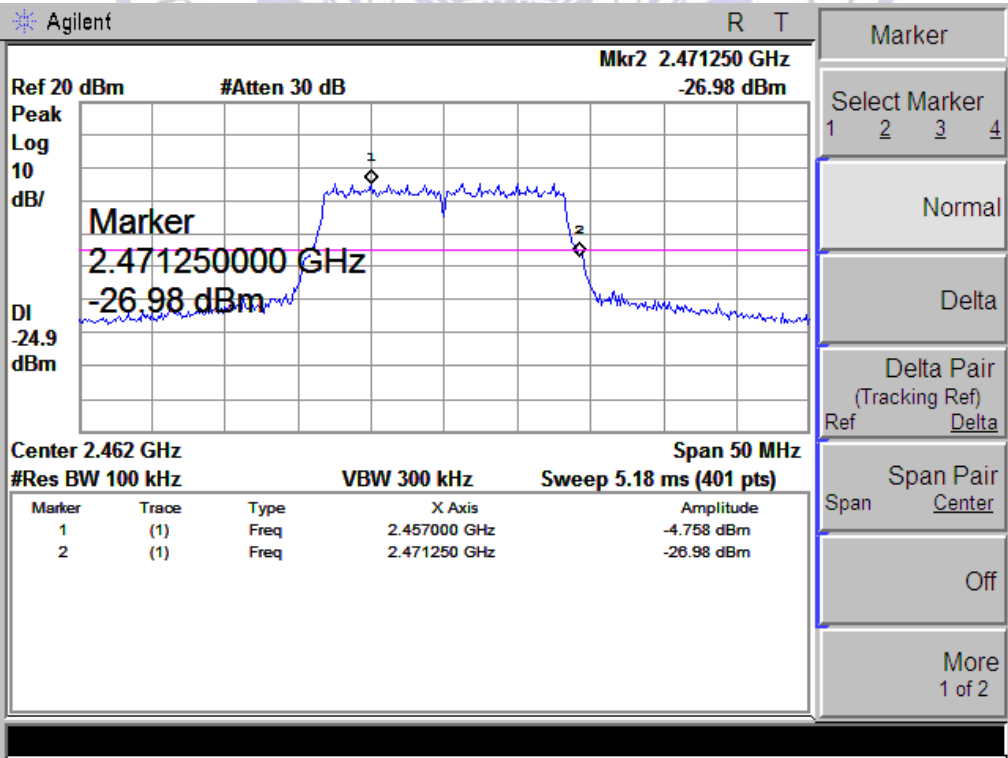


| | | |
|-----------|---|---|
| Product | : | 7" Android Tablet PC |
| Test Item | : | Operation Frequency Range of 20dB Bandwidth |
| Test Mode | : | Mode 2: Transmit by 802.11g |

Channel 01 (2412MHz)

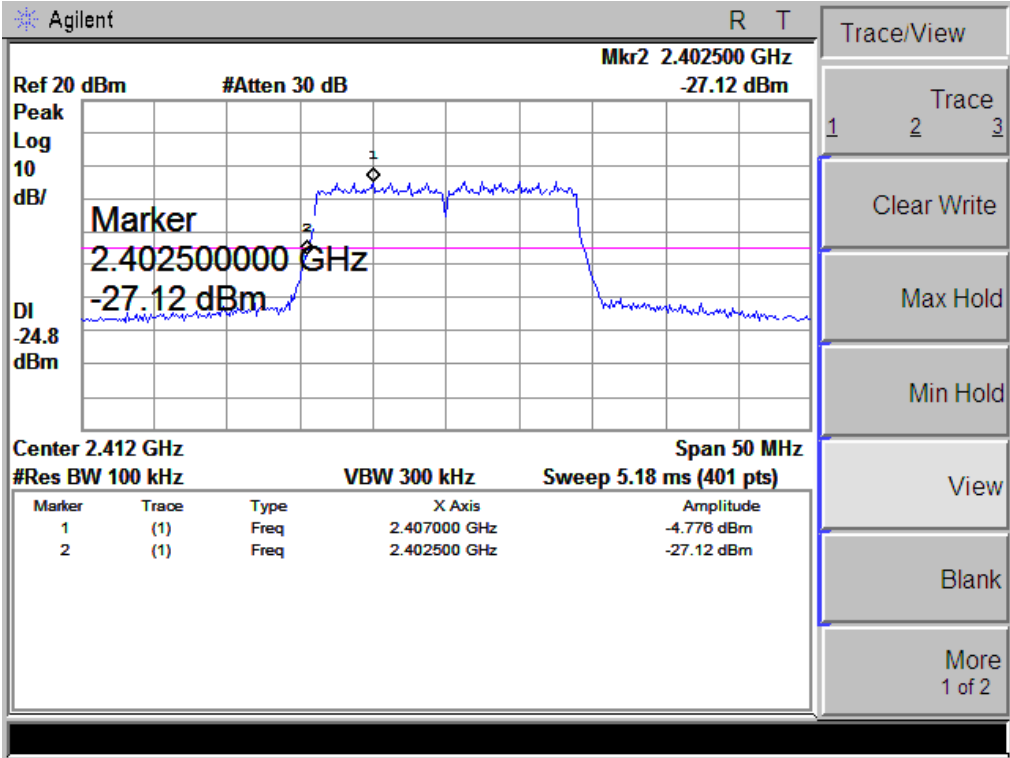


Channel 11 (2462MHz)

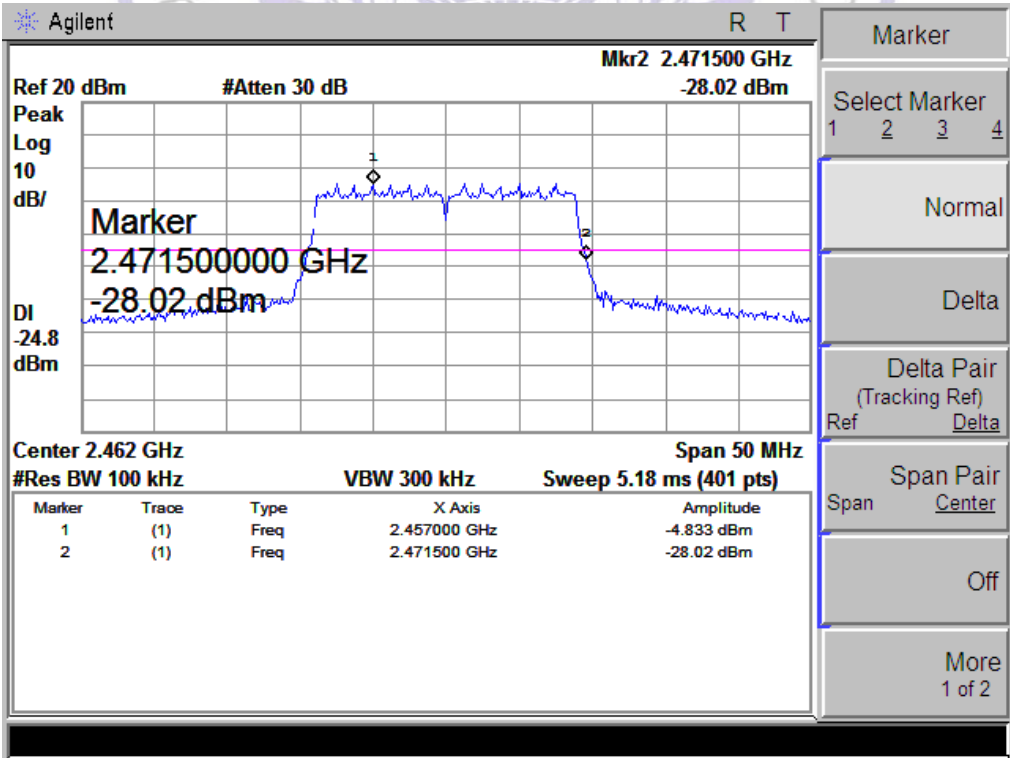


| | | |
|-----------|---|---|
| Product | : | 7" Android Tablet PC |
| Test Item | : | Operation Frequency Range of 20dB Bandwidth |
| Test Mode | : | Mode 3: Transmit by 802.11n (20MHz) |

Channel 01 (2412MHz)

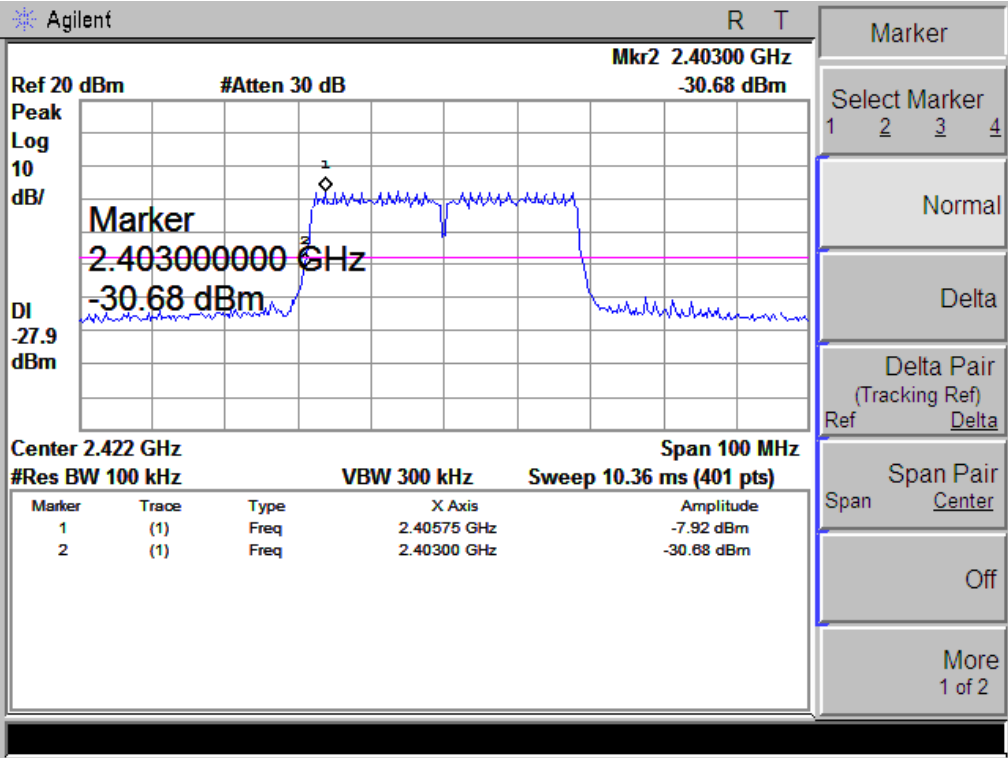


Channel 11 (2462MHz)

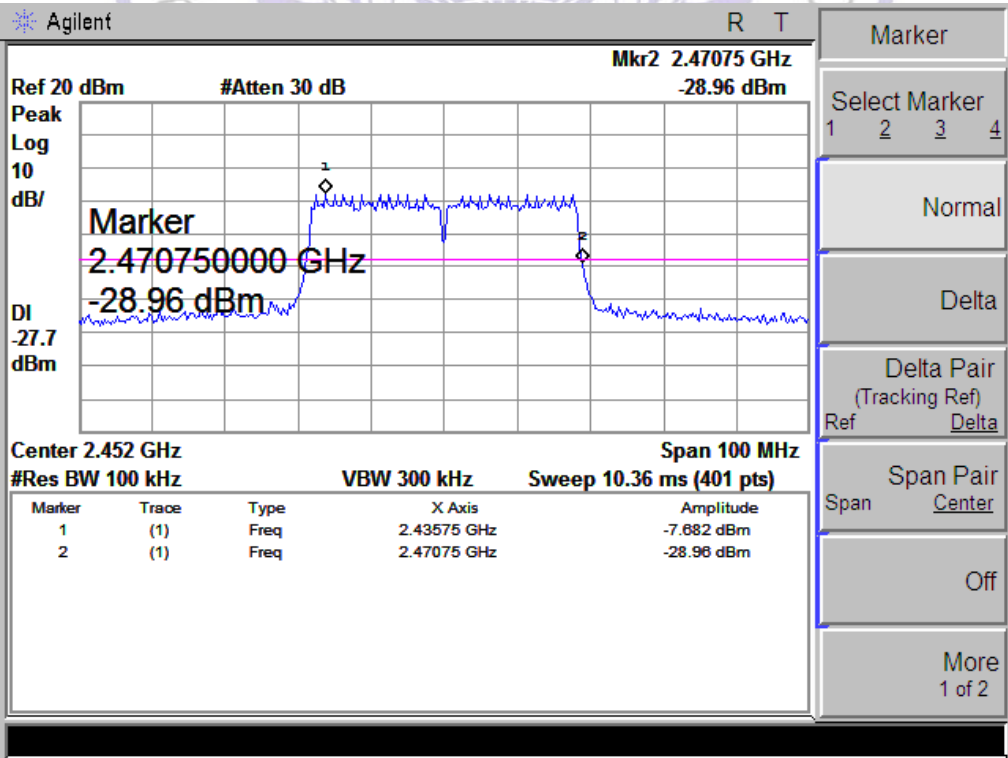


| | | |
|-----------|---|---|
| Product | : | 7" Android Tablet PC |
| Test Item | : | Operation Frequency Range of 20dB Bandwidth |
| Test Mode | : | Mode 4: Transmit by 802.11n (40MHz) |

Channel 03 (2422MHz)



Channel 09 (2452MHz)



4.9. Antenna Requirement

STANDARD APPLICABLE

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.

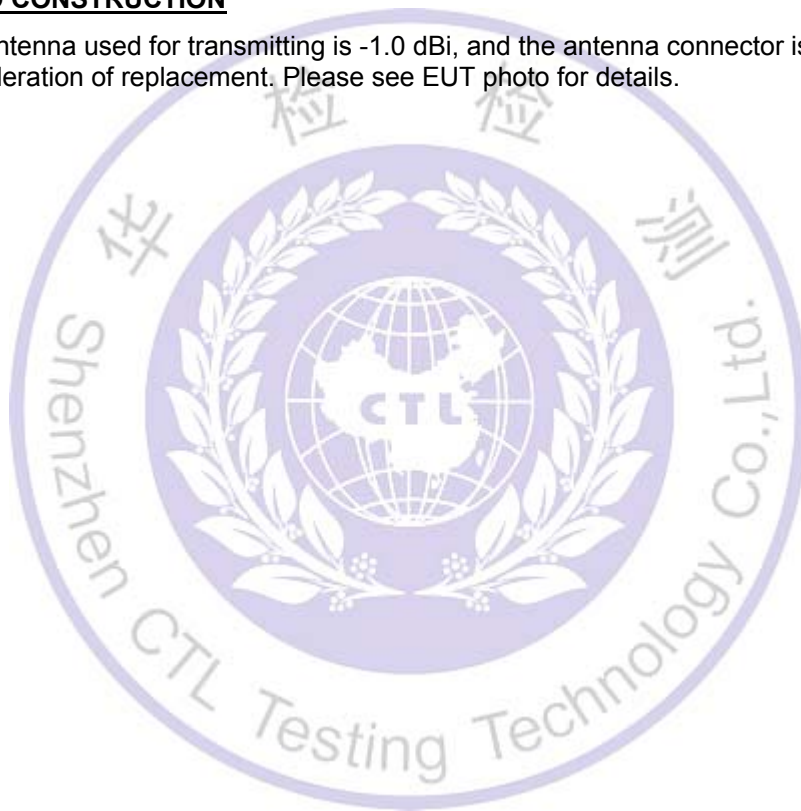
And according to FCC 47 CFR Section 15.247 (c), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

ANTENNA CONNECTED CONSTRUCTION

The directional gains of antenna used for transmitting is -1.0 dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Please see EUT photo for details.



4.10. RF Exposure

STANDARD APPLICABLE

According to § 1.1307 (b)(1), system operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a portable device. Per KDB 447498 D01 v05, the device used distance is 5mm from body.

LIMIT

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm ²) | Average Time (Minutes) |
|---|-------------------------------|-------------------------------|-------------------------------------|------------------------|
| (A) Limits for Occupational/ Control Exposures | | | | |
| 300-1500 | -- | -- | F/300 | 6 |
| 1500-100,000 | -- | -- | 5 | 6 |
| (B) Limits for General Population/ Uncontrolled Exposures | | | | |
| 300-1500 | -- | -- | F/1500 | 6 |
| 1500-100,000 | -- | -- | 1 | 30 |

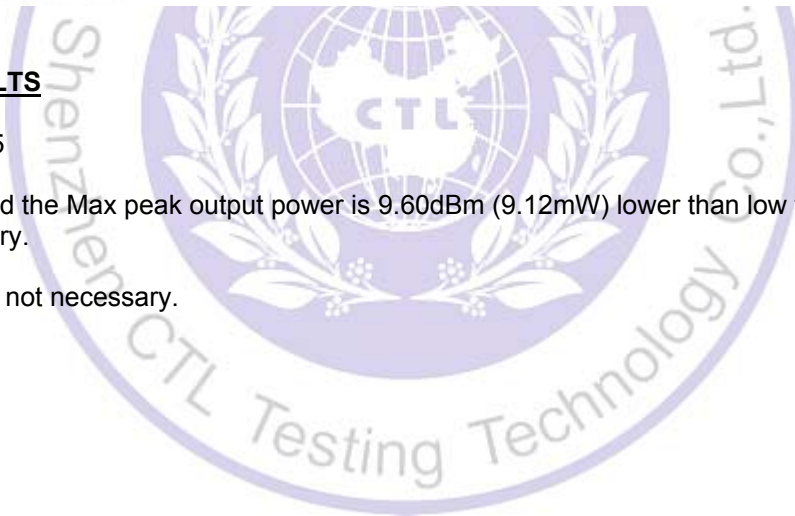
F= Frequency in MHz

MEASUREMENT RESULTS

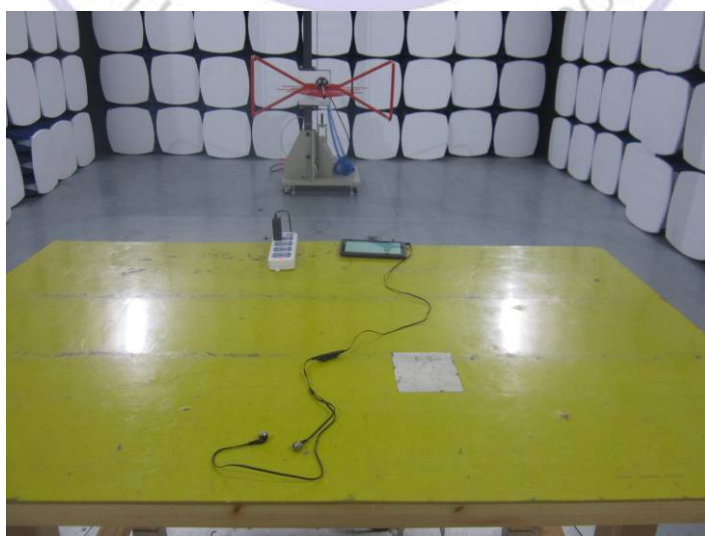
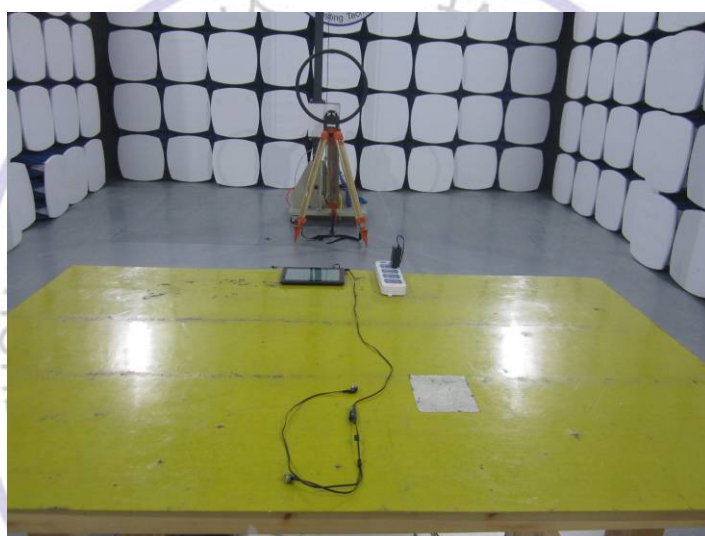
Per KDB 447498 D01 V05

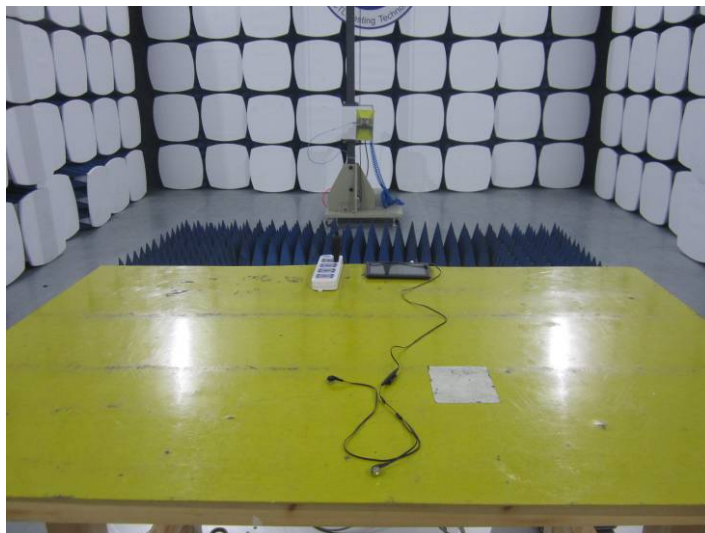
This is a Wi-Fi function and the Max peak output power is 9.60dBm (9.12mW) lower than low threshold 10 mW in general population category.

The SAR measurement is not necessary.



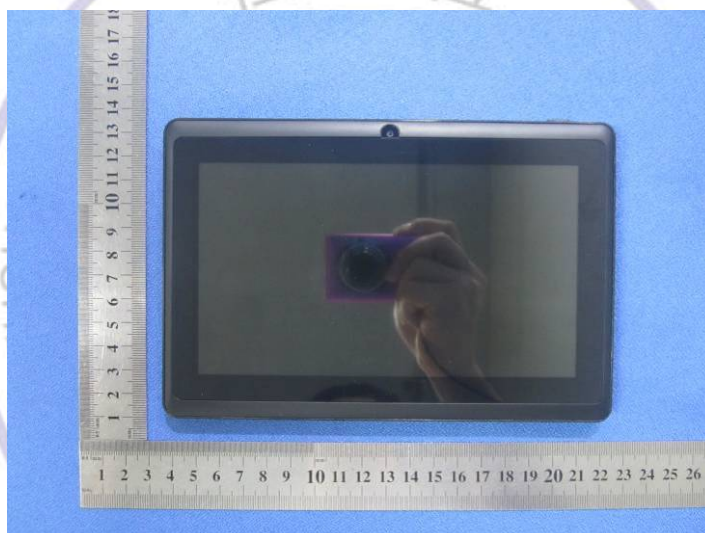
5. Test Setup Photos of the EUT





6. External and Internal Photos of the EUT

External Photos of EUT

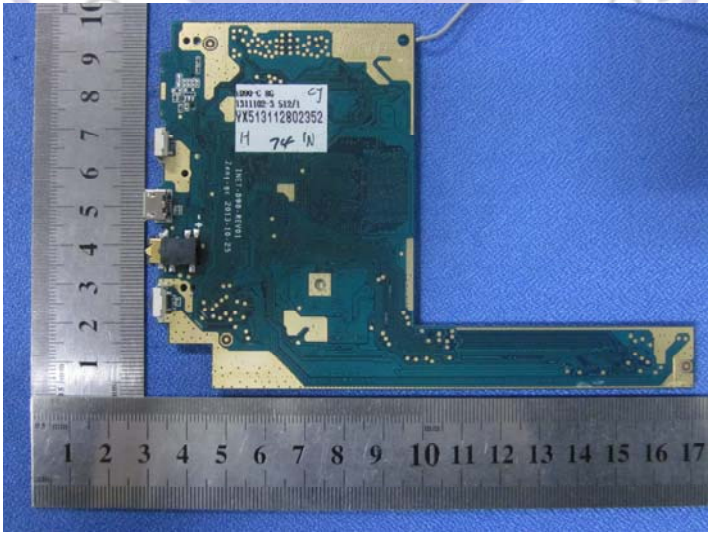
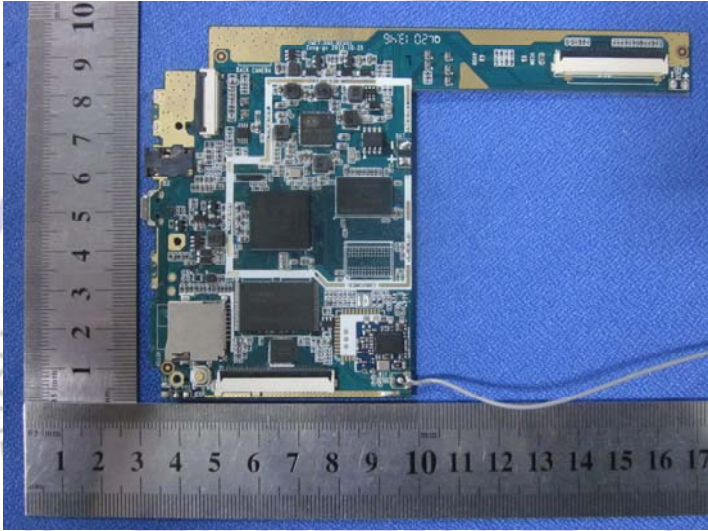


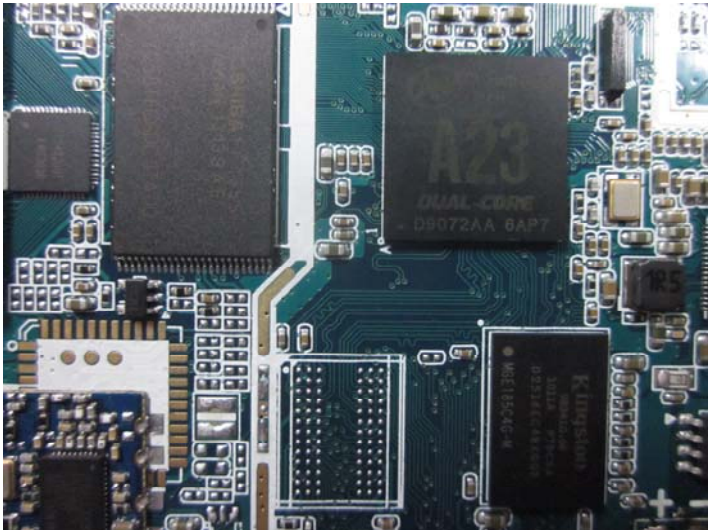


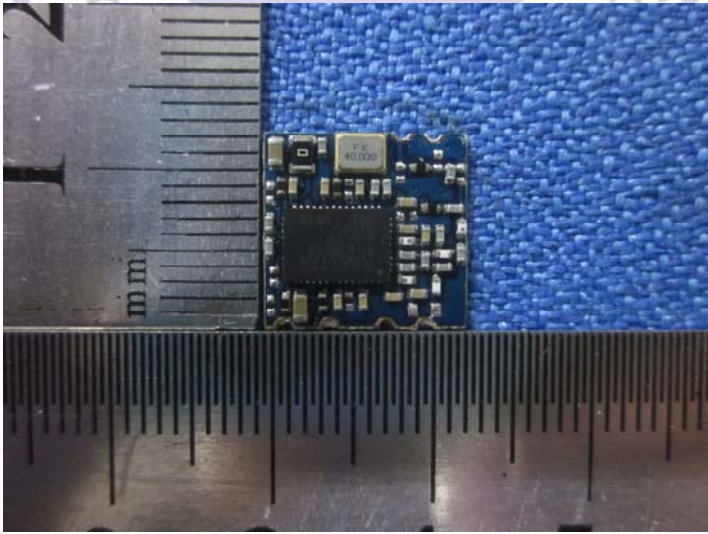
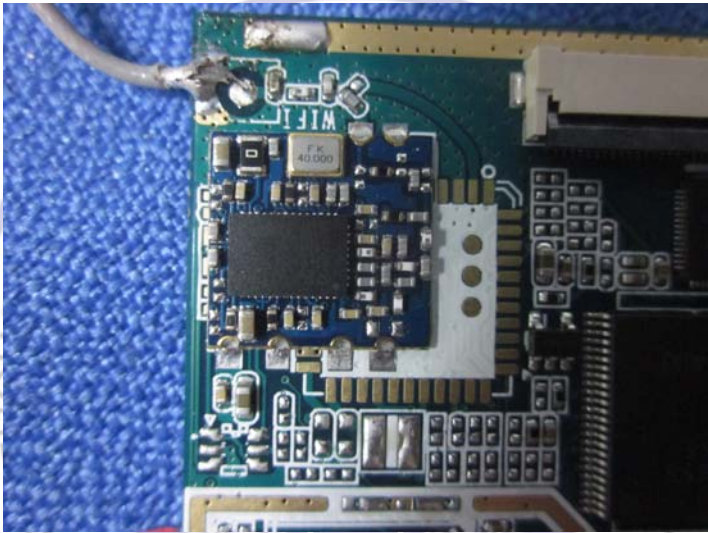


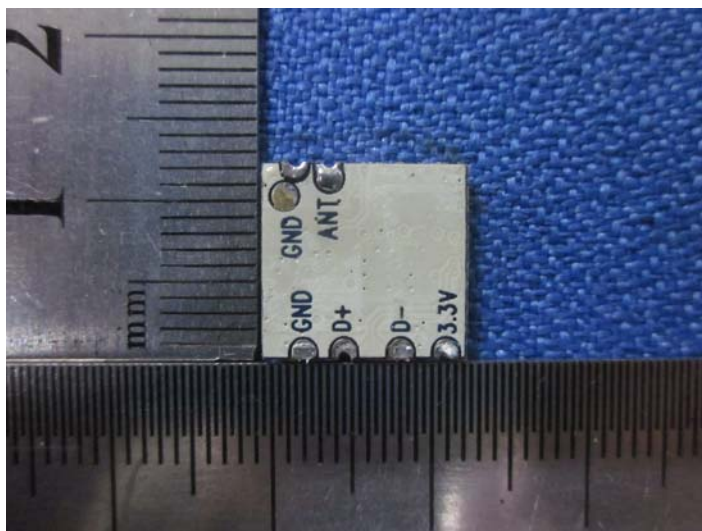
Internal Photos of EUT











.....End of Report.....

