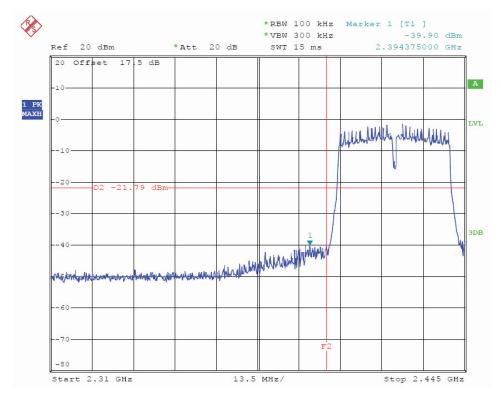
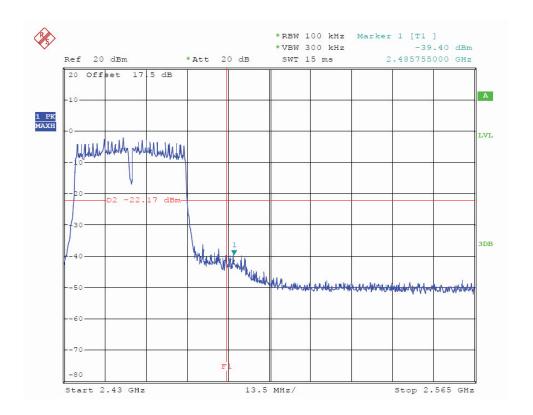
802.11n(HT40) 2422MHz



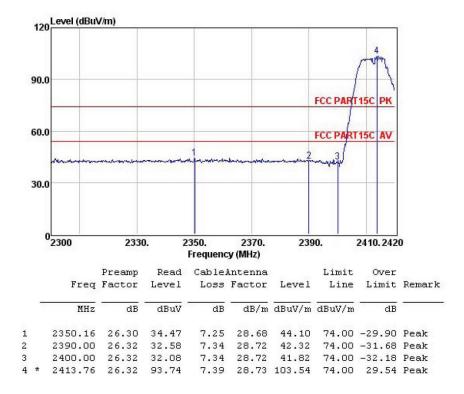
802.11n(HT40) 2452MHz



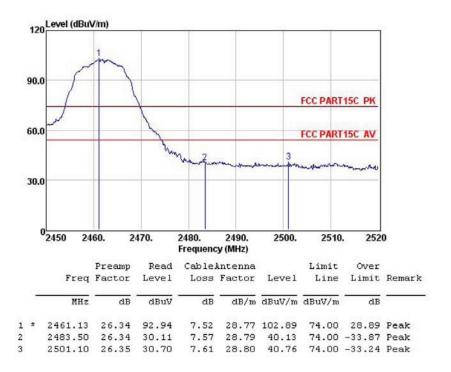
For radiated test as follows:

Note: we pretest horizontal and vertical polarizations, the worst was vertical polarizations and recorded in test report.

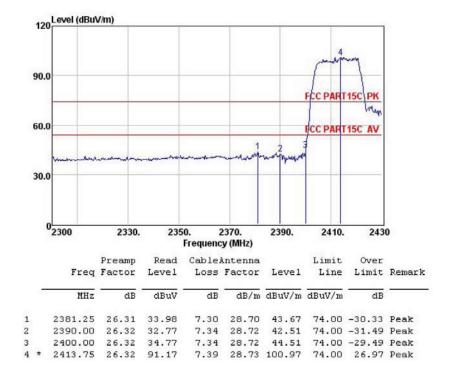
802.11b 2412MHz



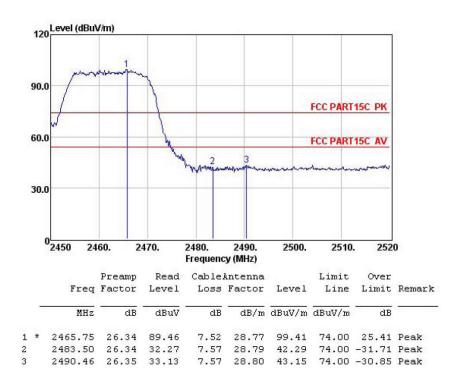
802.11b 2462MHz



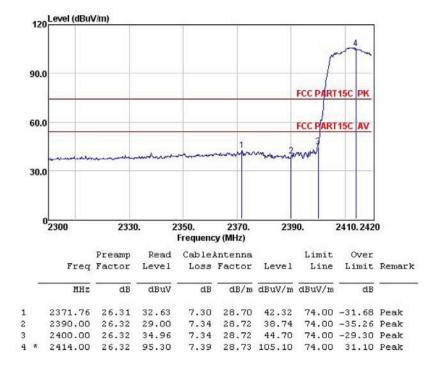
802.11g 2412MHz



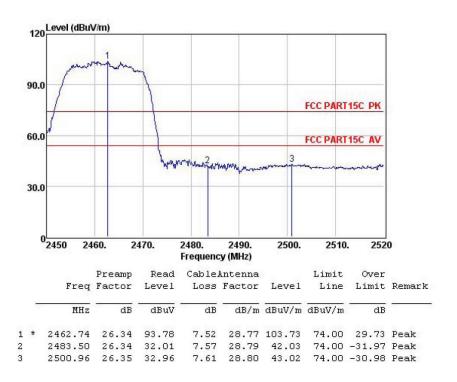
802.11g 2462MHz



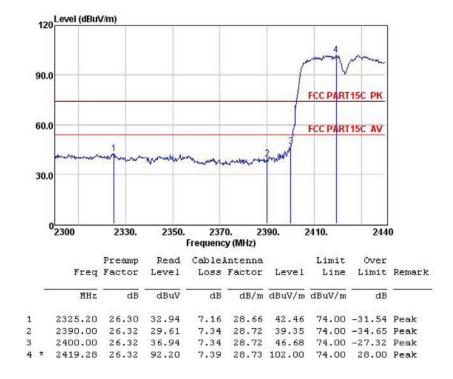
802.11n(HT20) 2412MHz



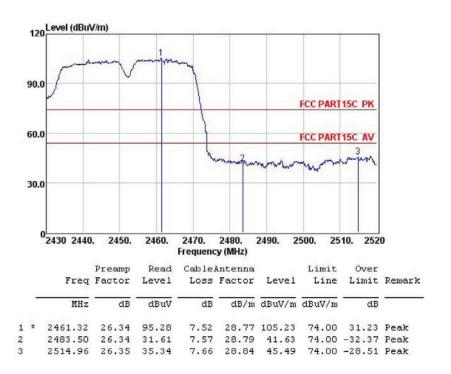
802.11n(HT20) 2462MHz



802.11n(HT40) 2422MHz



802.11n(HT40) 2452MHz



7.6DB OCCUPY BANDWIDTH

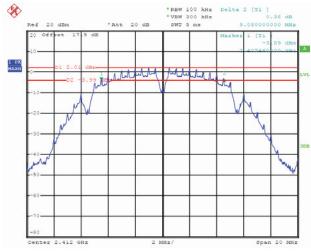
7.1. Limits

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz Test data:

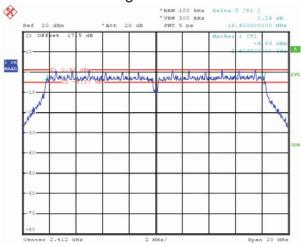
| | Channel Frequency (MHz) | 6dB Bandwidth (MHz) | Limit (MHz) | Result |
|---------------|----------------------------|------------------------|----------------|--------|
| 802.11b | 2412 | 9.08 | >0.5 | Pass |
| | 2437 | 9.04 | >0.5 | Pass |
| | 2462 | 9.06 | >0.5 | Pass |
| 802.11g | 2412 | 16.40 | >0.5 | Pass |
| | 2437 | 16.44 | >0.5 | Pass |
| | 2462 | 16.42 | >0.5 | Pass |
| | 2412 | 17.64 | >0.5 | Pass |
| 802.11n(HT20) | 2437 | 17.64 | >0.5 | Pass |
| | 2462 | 17.64 | >0.5 | Pass |
| 802.11n(HT40) | 2422 | 35.44 | >0.5 | Pass |
| | 2437 | 35.44 | >0.5 | Pass |
| | 2452 | 35.56 | >0.5 | Pass |

Test plot as follows:

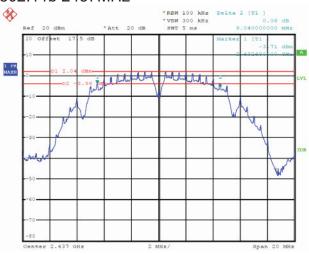
802.11b 2412MHz



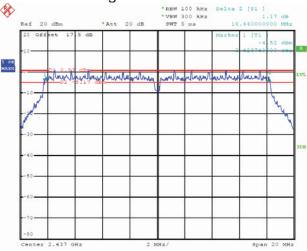
802.11g 2412MHz



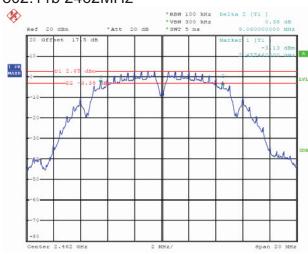
802.11b 2437MHz



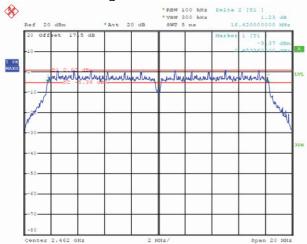
802.11g 2437MHz



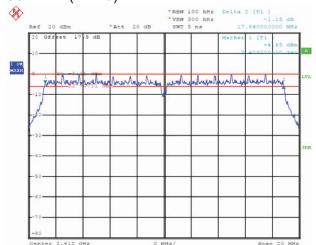
802.11b 2462MHz



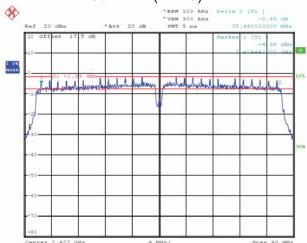
802.11g 2462MHz



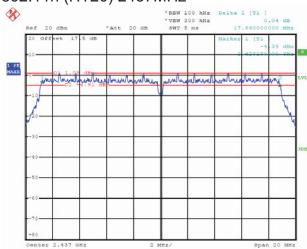
802.11n (HT20) 2412MHz



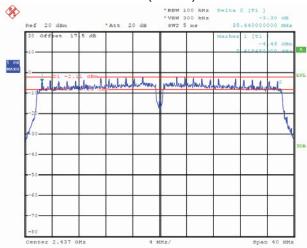
802.11n (HT40) 2422MHz



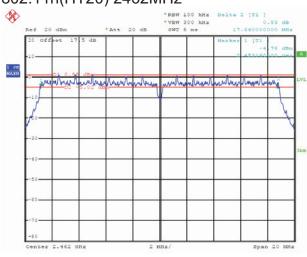
802.11n (HT20) 2437MHz



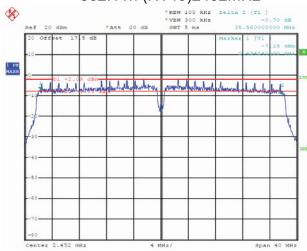
802.11n (HT40) 2437MHz



802.11n(HT20) 2462MHz



802.11n (HT40)2452MHz



8. OUTPUT POWER TEST

8.1. Limits

For systems using digital modulation in the 2400~2483.5MHz, The out put Power shall not exceed 1W (30dBm)

8.2. Test setup

- 1. The Transmitter output (antenna port) was connected to the power meter.
- 2. Turn on the EUT and power meter and then record the power value.
- 3. Repeat above procedures on all channels needed to be tested.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

8.3. Test result

| | Channel Frequency (MHz) | Output Power(dBm) | Limit (dBm) | Result |
|---------------|----------------------------|----------------------|----------------|--------|
| | 2412 | 17.24 | 30 | Pass |
| 802.11b | 2437 | 17.37 | 30 | Pass |
| | 2462 | 17.32 | 30 | Pass |
| 802.11g | 2412 | 14.18 | 30 | Pass |
| | 2437 | 14.06 | 30 | Pass |
| | 2462 | 14.11 | 30 | Pass |
| 802.11n(HT20) | 2412 | 12.13 | 30 | Pass |
| | 2437 | 12.08 | 30 | Pass |
| | 2462 | 12.12 | 30 | Pass |
| | 2422 | 12.05 | 30 | Pass |
| 802.11n(HT40) | 2437 | 11.97 | 30 | Pass |
| | 2452 | 12.01 | 30 | Pass |

9. POWER SPECTRAL DENSITY TEST

9.1. Limits

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

9.2. Test setup

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW =3kHz.
- 4. Set the VBW ≥3 times RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.

9.3. Test result

| | Channel Frequency (MHz) | Power density (dBm/3kHz) | Limit (dBm/3kHz) | Result |
|-------------------|----------------------------|--------------------------|---------------------|--------|
| 802.11b | 2412 | -11.66 | 8 | Pass |
| | 2437 | -5.66 | 8 | Pass |
| | 2462 | -11.65 | 8 | Pass |
| 802.11g | 2412 | -13.58 | 8 | Pass |
| | 2437 | -13.01 | 8 | Pass |
| | 2462 | -13.03 | 8 | Pass |
| 802.11n (HT20) | 2412 | -13.32 | 8 | Pass |
| | 2437 | -13.43 | 8 | Pass |
| | 2462 | -12.18 | 8 | Pass |
| 802.11n (HT40) | 2422 | -15.96 | 8 | Pass |
| | 2437 | -17.21 | 8 | Pass |
| | 2452 | -16.57 | 8 | Pass |