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5.7 RADIATED EMISSIONS AND BAND EDGE MEASUREMENT

FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(1)(2)(3)(4)(6)

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.209/205

RSS-247 Issue 2 Section 6.2.1.2/6.2.2.2/6.2.3.2/6.2.4.2

Test Method: KDB 789033 D02 v02r01 Section G.3, G.4, G.5, and G.6

Receiver Setup:

| Frequency | RBW |
|---------------------|-------------|
| 0.009 MHz-0.150 MHz | 200/300 kHz |
| 0.150 MHz -30 MHz | 9/10 kHz |
| 30 MHz-1 GHz | 100/120 kHz |
| Above 1 GHz | 1 MHz |

Limits:

1. Limits of Radiated Emission and Band edge Measurement

Radiated emissions that fall in the restricted bands must comply with the general emissions limits in 15.209(a) as below table. Other emissions shall be at least 20 dB below the highest level of the desired power.

| powci. | | | | |
|---------------------|----------------------------------|-----------------|------------|--------------------------|
| Frequency | Field strength (microvolt/meter) | Limit (dBµV/m) | Remark | Measurement distance (m) |
| 0.009 MHz-0.490 MHz | 2400/F(kHz) | | | 300 |
| 0.490 MHz-1.705 MHz | 24000/F(kHz) | - | | 30 |
| 1.705 MHz-30 MHz | 30 | | | 30 |
| 30 MHz-88 MHz | 100 | 40.0 | Quasi-peak | 3 |
| 88 MHz-216 MHz | 150 | 43.5 | Quasi-peak | 3 |
| 216 MHz-960 MHz | 200 | 46.0 | Quasi-peak | 3 |
| 960MHz-1GHz | 500 | 54.0 | Quasi-peak | 3 |
| Above 1 GHz | 500 | 54.0 | Average | 3 |

Remark:

- a. The lower limit shall apply at the transition frequencies.
- b. Emission level (dBuV/m) = 20 log Emission level (uV/m).
- c. For frequencies above 1000 MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20 dB under any condition of modulation.



2. Limits of Unwanted Emission Out of the Restricted Bands

| Applicable To | Limit | |
|---------------------------------|---|-------------------------------------|
| 789033 D02 General U-NII Test | Field Strength at 3 m | |
| Procedures New Rules v01r04 | PK: 74 (dBμV/m) | AV: 54 (dBμV/m) |
| Applicable To | EIRP Limit | Equivalent Field Strength at 3 m |
| RSS-247 Issue 2 Section 6.2.1.2 | PK: -27 (dBm/MHz) | PK: 74 (dBµV/m) |
| RSS-247 Issue 2 Section 6.2.2.2 | PK: -27 (dBm/MHz) | PK: 74 (dBµV/m) |
| RSS-247 Issue 2 Section 6.2.3.2 | PK: -27 (dBm/MHz) | PK: 68.2 (dBµV/m) |
| RSS-247 Issue 2 Section 6.2.4.2 | 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 dBm/MHz at 5 MHz above or below the band edges; 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges; 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges. | PK: 68.2 (dBμV/m) |

Test Setup: Refer to section 4.5.1 for details.

Test Procedures:

- The EUT was placed on the top of a rotating table 0.8 meters (for below 1 GHz) / 1.5 meters (for above 1 GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- 5. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- 6. The test-receiver system was set to peak and average detected function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

Remark:

- The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 kHz for Quasipeak detection (QP) at frequency below 1 GHz.
- b) The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1 GHz.
- c) The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for RMS Average (Duty cycle < 98 %) for Average detection (AV) at frequency above 1 GHz, then the measurement results was added to a correction factor (10 log(1/duty cycle)).
- d) The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz (Duty cycle ≥ 98 %) or ≥ 1/T(duty cycle is < 98%) for Average detection (AV) at frequency above 1 GHz.
- e) All modes of operation were investigated and the worst-case emissions are reported.

Equipment Used: Refer to section 3 for details.

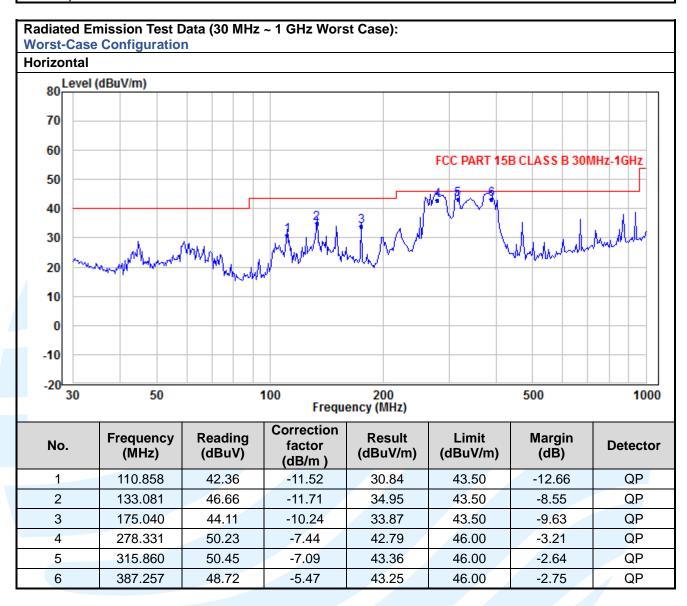
Test Result: Pass

The measurement data as follows:

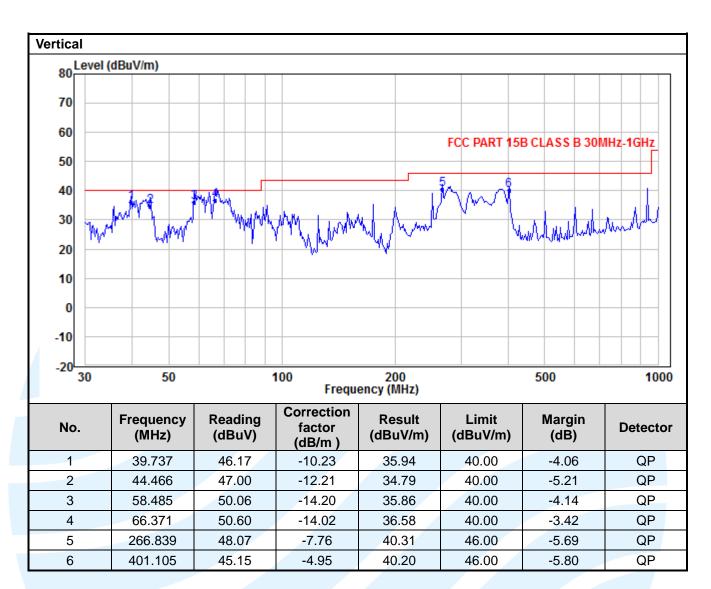


Radiated Emission Test Data (9 KHz ~ 30 MHz):

The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.









Radiated Emission Test Data (Above 1GHz):

IEEE 802.11a_Channel 36

| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis |
|-----|--------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|
| 1 | 10360.00 | 39.88 | 11.11 | 50.99 | 74.00 | -23.01 | Peak | Horizontal |
| 2 | 10360.00 | 28.13 | 11.11 | 39.24 | 54.00 | -14.76 | Average | Horizontal |
| 3 | 15540.00 | 38.63 | 10.76 | 49.39 | 74.00 | -24.61 | Peak | Horizontal |
| 4 | 15540.00 | 26.53 | 10.76 | 37.29 | 54.00 | -16.71 | Average | Horizontal |
| 5 | 10360.00 | 39.02 | 9.39 | 48.41 | 74.00 | -25.59 | Peak | Vertical |
| 6 | 10360.00 | 27.31 | 9.39 | 36.70 | 54.00 | -17.30 | Average | Vertical |
| 7 | 15540.00 | 38.16 | 11.59 | 49.75 | 74.00 | -24.25 | Peak | Vertical |
| 8 | 15540.00 | 26.49 | 11.59 | 38.08 | 54.00 | -15.92 | Average | Vertical |

| IEEE 802. | IEEE 802.11a_Channel 44 | | | | | | | | | | | |
|-----------|-------------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | | | |
| 1 | 10440.00 | 39.96 | 11.31 | 51.27 | 74.00 | -22.73 | Peak | Horizontal | | | | |
| 2 | 10440.00 | 27.84 | 11.31 | 39.15 | 54.00 | -14.85 | Average | Horizontal | | | | |
| 3 | 15660.00 | 45.09 | 11.00 | 56.09 | 74.00 | -17.91 | Peak | Horizontal | | | | |
| 4 | 15660.00 | 26.78 | 11.00 | 37.78 | 54.00 | -16.22 | Average | Horizontal | | | | |
| 5 | 10440.00 | 39.67 | 9.43 | 49.10 | 74.00 | -24.90 | Peak | Vertical | | | | |
| 6 | 10440.00 | 27.42 | 9.43 | 36.85 | 54.00 | -17.15 | Average | Vertical | | | | |
| 7 | 15660.00 | 38.03 | 11.93 | 49.96 | 74.00 | -24.04 | Peak | Vertical | | | | |
| 8 | 15660.00 | 26.17 | 11.93 | 38.10 | 54.00 | -15.90 | Average | Vertical | | | | |

| MIMO IEE | E 802.11a_0 | Channel 48 | | | | | | |
|----------|--------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis |
| 1 | 10480.00 | 39.47 | 11.41 | 50.88 | 74.00 | -23.12 | Peak | Horizontal |
| 2 | 10480.00 | 27.58 | 11.41 | 38.99 | 54.00 | -15.01 | Average | Horizontal |
| 3 | 15720.00 | 46.08 | 11.08 | 57.16 | 74.00 | -16.84 | Peak | Horizontal |
| 4 | 15720.00 | 26.42 | 11.08 | 37.50 | 54.00 | -16.50 | Average | Horizontal |
| 5 | 10480.00 | 39.48 | 9.45 | 48.93 | 74.00 | -25.07 | Peak | Vertical |
| 6 | 10480.00 | 27.36 | 9.45 | 36.81 | 54.00 | -17.19 | Average | Vertical |
| 7 | 15720.00 | 41.34 | 12.05 | 53.39 | 74.00 | -20.61 | Peak | Vertical |
| 8 | 15720.00 | 25.35 | 12.05 | 37.40 | 54.00 | -16.60 | Average | Vertical |



| IEEE 802. | IEEE 802.11a_Channel 52 | | | | | | | | | | | |
|-----------|-------------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | | | |
| 1 | 10520.00 | 39.69 | 11.42 | 51.11 | 74.00 | -22.89 | Peak | Horizontal | | | | |
| 2 | 10520.00 | 27.81 | 11.42 | 39.23 | 54.00 | -14.77 | Average | Horizontal | | | | |
| 3 | 15780.00 | 42.32 | 11.16 | 53.48 | 74.00 | -20.52 | Peak | Horizontal | | | | |
| 4 | 15780.00 | 26.81 | 11.16 | 37.97 | 54.00 | -16.03 | Average | Horizontal | | | | |
| 5 | 10520.00 | 39.26 | 9.43 | 48.69 | 74.00 | -25.31 | Peak | Vertical | | | | |
| 6 | 10520.00 | 27.50 | 9.43 | 36.93 | 54.00 | -17.07 | Average | Vertical | | | | |
| 7 | 15780.00 | 40.50 | 12.19 | 52.69 | 74.00 | -21.31 | Peak | Vertical | | | | |
| 8 | 15780.00 | 25.36 | 12.19 | 37.55 | 54.00 | -16.45 | Average | Vertical | | | | |

| IEEE 802. | IEEE 802.11a_Channel 60 | | | | | | | | | | | |
|-----------|-------------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | | | |
| 1 | 10600.00 | 40.48 | 11.33 | 51.81 | 74.00 | -22.19 | Peak | Horizontal | | | | |
| 2 | 10600.00 | 27.99 | 11.33 | 39.32 | 54.00 | -14.68 | Average | Horizontal | | | | |
| 3 | 15900.00 | 44.19 | 11.33 | 55.52 | 74.00 | -18.48 | Peak | Horizontal | | | | |
| 4 | 15900.00 | 26.45 | 11.49 | 37.94 | 54.00 | -16.06 | Average | Horizontal | | | | |
| 5 | 10600.00 | 39.14 | 9.37 | 48.51 | 74.00 | -25.49 | Peak | Vertical | | | | |
| 6 | 10600.00 | 27.88 | 9.37 | 37.25 | 54.00 | -16.75 | Average | Vertical | | | | |
| 7 | 15900.00 | 41.53 | 12.45 | 53.98 | 74.00 | -20.02 | Peak | Vertical | | | | |
| 8 | 15900.00 | 25.15 | 12.45 | 37.60 | 54.00 | -16.40 | Average | Vertical | | | | |

| IEEE 802. | 11a_Channe | el 64 | | | | | | |
|-----------|--------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis |
| 1 | 10640.00 | 40.36 | 11.29 | 51.65 | 74.00 | -22.35 | Peak | Horizontal |
| 2 | 10640.00 | 28.14 | 11.29 | 39.43 | 54.00 | -14.57 | Average | Horizontal |
| 3 | 15960.00 | 44.22 | 11.49 | 55.71 | 74.00 | -18.29 | Peak | Horizontal |
| 4 | 15960.00 | 26.65 | 11.49 | 38.14 | 54.00 | -15.86 | Average | Horizontal |
| 5 | 10640.00 | 40.36 | 9.34 | 49.70 | 74.00 | -24.30 | Peak | Vertical |
| 6 | 10640.00 | 27.85 | 9.34 | 37.19 | 54.00 | -16.81 | Average | Vertical |
| 7 | 15960.00 | 36.82 | 12.66 | 49.48 | 74.00 | -24.52 | Peak | Vertical |
| 8 | 15960.00 | 24.61 | 12.66 | 37.27 | 54.00 | -16.73 | Average | Vertical |



| IEEE 802. | IEEE 802.11a_Channel 100 | | | | | | | | | | | |
|-----------|--------------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | | | |
| 1 | 11000.00 | 41.16 | 10.30 | 51.46 | 74.00 | -22.54 | Peak | Horizontal | | | | |
| 2 | 11000.00 | 28.46 | 10.30 | 38.76 | 54.00 | -15.24 | Average | Horizontal | | | | |
| 3 | 16500.00 | 39.49 | 13.35 | 52.84 | 74.00 | -21.16 | Peak | Horizontal | | | | |
| 4 | 16500.00 | 26.65 | 13.35 | 40.00 | 54.00 | -14.00 | Average | Horizontal | | | | |
| 5 | 11000.00 | 41.42 | 8.50 | 49.92 | 74.00 | -24.08 | Peak | Vertical | | | | |
| 6 | 11000.00 | 28.67 | 8.50 | 37.17 | 54.00 | -16.83 | Average | Vertical | | | | |
| 7 | 16500.00 | 36.25 | 13.45 | 49.70 | 74.00 | -24.30 | Peak | Vertical | | | | |
| 8 | 16500.00 | 23.61 | 13.45 | 37.06 | 54.00 | -16.94 | Average | Vertical | | | | |

| IEEE 802. | IEEE 802.11a_Channel 116 | | | | | | | | | | | |
|-----------|--------------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | | | |
| 1 | 11160.00 | 39.57 | 9.97 | 49.54 | 74.00 | -24.46 | Peak | Horizontal | | | | |
| 2 | 11160.00 | 27.86 | 9.97 | 37.83 | 54.00 | -16.17 | Average | Horizontal | | | | |
| 3 | 16740.00 | 38.65 | 13.24 | 51.89 | 74.00 | -22.11 | Peak | Horizontal | | | | |
| 4 | 16740.00 | 26.67 | 13.24 | 39.91 | 54.00 | -14.09 | Average | Horizontal | | | | |
| 5 | 11160.00 | 40.21 | 8.27 | 48.48 | 74.00 | -25.52 | Peak | Vertical | | | | |
| 6 | 11160.00 | 27.84 | 8.27 | 36.11 | 54.00 | -17.89 | Average | Vertical | | | | |
| 7 | 16740.00 | 36.63 | 13.01 | 49.64 | 74.00 | -24.36 | Peak | Vertical | | | | |
| 8 | 16740.00 | 24.26 | 13.01 | 37.27 | 54.00 | -16.73 | Average | Vertical | | | | |

| IEEE 802. | 11a_Channe | el 140 | | | | | | |
|-----------|--------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis |
| 1 | 11400.00 | 41.55 | 9.86 | 51.41 | 74.00 | -22.59 | Peak | Horizontal |
| 2 | 11400.00 | 29.10 | 9.86 | 38.96 | 54.00 | -15.04 | Average | Horizontal |
| 3 | 17100.00 | 38.81 | 13.42 | 52.23 | 74.00 | -21.77 | Peak | Horizontal |
| 4 | 17100.00 | 26.54 | 13.42 | 39.96 | 54.00 | -14.04 | Average | Horizontal |
| 5 | 11400.00 | 40.44 | 8.30 | 48.74 | 74.00 | -25.26 | Peak | Vertical |
| 6 | 11400.00 | 29.40 | 8.30 | 37.70 | 54.00 | -16.30 | Average | Vertical |
| 7 | 17100.00 | 33.94 | 12.76 | 46.70 | 74.00 | -27.30 | Peak | Vertical |
| 8 | 17100.00 | 22.99 | 12.76 | 35.75 | 54.00 | -18.25 | Average | Vertical |



| IEEE 802. | IEEE 802.11a_Channel 149 | | | | | | | | | | |
|-----------|--------------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | | |
| 1 | 11490.00 | 41.01 | 9.78 | 50.79 | 74.00 | -23.21 | Peak | Horizontal | | | |
| 2 | 11490.00 | 28.85 | 9.78 | 38.63 | 54.00 | -15.37 | Average | Horizontal | | | |
| 3 | 17235.00 | 38.97 | 13.98 | 52.95 | 74.00 | -21.05 | Peak | Horizontal | | | |
| 4 | 17235.00 | 26.45 | 13.98 | 40.43 | 54.00 | -13.57 | Average | Horizontal | | | |
| 5 | 11490.00 | 41.10 | 8.27 | 49.37 | 74.00 | -24.63 | Peak | Vertical | | | |
| 6 | 11490.00 | 29.00 | 8.27 | 37.27 | 54.00 | -16.73 | Average | Vertical | | | |
| 7 | 17235.00 | 37.74 | 13.24 | 50.98 | 74.00 | -23.02 | Peak | Vertical | | | |
| 8 | 17235.00 | 25.04 | 13.24 | 38.28 | 54.00 | -15.72 | Average | Vertical | | | |

| IEEE 802.11a_Channel 157 | | | | | | | | | | |
|--------------------------|--------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | |
| 1 | 11570.00 | 40.84 | 9.86 | 50.70 | 74.00 | -23.30 | Peak | Horizontal | | |
| 2 | 11570.00 | 28.32 | 9.86 | 38.18 | 54.00 | -15.82 | Average | Horizontal | | |
| 3 | 17355.00 | 39.95 | 14.49 | 54.44 | 74.00 | -19.56 | Peak | Horizontal | | |
| 4 | 17355.00 | 27.73 | 14.49 | 42.22 | 54.00 | -11.78 | Average | Horizontal | | |
| 5 | 11570.00 | 40.85 | 8.47 | 49.32 | 74.00 | -24.68 | Peak | Vertical | | |
| 6 | 11570.00 | 28.68 | 8.47 | 37.15 | 54.00 | -16.85 | Average | Vertical | | |
| 7 | 17355.00 | 37.93 | 13.68 | 51.61 | 74.00 | -22.39 | Peak | Vertical | | |
| 8 | 17355.00 | 26.48 | 13.68 | 40.16 | 54.00 | -13.84 | Average | Vertical | | |

| IEEE 802. | 11a_Channe | el 165 | | | | | | |
|-----------|--------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis |
| 1 | 11650.00 | 40.12 | 9.95 | 50.07 | 74.00 | -23.93 | Peak | Horizontal |
| 2 | 11650.00 | 28.47 | 9.95 | 38.42 | 54.00 | -15.58 | Average | Horizontal |
| 3 | 17475.00 | 39.49 | 14.89 | 54.38 | 74.00 | -19.62 | Peak | Horizontal |
| 4 | 17475.00 | 27.57 | 14.89 | 42.46 | 54.00 | -11.54 | Average | Horizontal |
| 5 | 11650.00 | 40.35 | 8.69 | 49.04 | 74.00 | -24.96 | Peak | Vertical |
| 6 | 11650.00 | 28.54 | 8.69 | 37.23 | 54.00 | -16.77 | Average | Vertical |
| 7 | 17475.00 | 38.54 | 14.00 | 52.54 | 74.00 | -21.46 | Peak | Vertical |
| 8 | 17475.00 | 26.04 | 14.00 | 40.04 | 54.00 | -13.96 | Average | Vertical |



| IEEE 802. | IEEE 802.11n-HT20_Channel 36 | | | | | | | | | | |
|-----------|------------------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | | |
| 1 | 10360.00 | 41.32 | 11.11 | 52.43 | 74.00 | -21.57 | Peak | Horizontal | | | |
| 2 | 10360.00 | 29.50 | 11.11 | 40.61 | 54.00 | -13.39 | Average | Horizontal | | | |
| 3 | 15540.00 | 40.26 | 10.76 | 51.02 | 74.00 | -22.98 | Peak | Horizontal | | | |
| 4 | 15540.00 | 27.75 | 10.76 | 38.51 | 54.00 | -15.49 | Average | Horizontal | | | |
| 5 | 10360.00 | 41.65 | 9.39 | 51.04 | 74.00 | -22.96 | Peak | Vertical | | | |
| 6 | 10360.00 | 29.41 | 9.39 | 38.80 | 54.00 | -15.20 | Average | Vertical | | | |
| 7 | 15540.00 | 40.07 | 11.59 | 51.66 | 74.00 | -22.34 | Peak | Vertical | | | |
| 8 | 15540.00 | 26.70 | 11.59 | 38.29 | 54.00 | -15.71 | Average | Vertical | | | |

| IEEE 802. | IEEE 802.11n-HT20_Channel 44 | | | | | | | | | | |
|-----------|------------------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | | |
| 1 | 10440.00 | 40.67 | 11.31 | 51.98 | 74.00 | -22.02 | Peak | Horizontal | | | |
| 2 | 10440.00 | 29.50 | 11.31 | 40.81 | 54.00 | -13.19 | Average | Horizontal | | | |
| 3 | 15660.00 | 42.66 | 11.00 | 53.66 | 74.00 | -20.34 | Peak | Horizontal | | | |
| 4 | 15660.00 | 27.67 | 11.00 | 38.67 | 54.00 | -15.33 | Average | Horizontal | | | |
| 5 | 10440.00 | 42.24 | 9.43 | 51.67 | 74.00 | -22.33 | Peak | Vertical | | | |
| 6 | 10440.00 | 29.49 | 9.43 | 38.92 | 54.00 | -15.08 | Average | Vertical | | | |
| 7 | 15660.00 | 42.84 | 11.93 | 54.77 | 74.00 | -19.23 | Peak | Vertical | | | |
| 8 | 15660.00 | 26.51 | 11.93 | 38.44 | 54.00 | -15.56 | Average | Vertical | | | |

| IEEE 802. | 11n-HT20_C | hannel 48 | | | | | | |
|-----------|--------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis |
| 1 | 10480.00 | 41.41 | 11.41 | 52.82 | 74.00 | -21.18 | Peak | Horizontal |
| 2 | 10480.00 | 28.98 | 11.41 | 40.39 | 54.00 | -13.61 | Average | Horizontal |
| 3 | 15720.00 | 39.43 | 11.08 | 50.51 | 74.00 | -23.49 | Peak | Horizontal |
| 4 | 15720.00 | 27.15 | 11.08 | 38.23 | 54.00 | -15.77 | Average | Horizontal |
| 5 | 10480.00 | 40.32 | 9.45 | 49.77 | 74.00 | -24.23 | Peak | Vertical |
| 6 | 10480.00 | 28.89 | 9.45 | 38.34 | 54.00 | -15.66 | Average | Vertical |
| 7 | 15720.00 | 38.34 | 12.05 | 50.39 | 74.00 | -23.61 | Peak | Vertical |
| 8 | 15720.00 | 25.88 | 12.05 | 37.93 | 54.00 | -16.07 | Average | Vertical |



| IEEE 802. | IEEE 802.11n-HT20_Channel 52 | | | | | | | | | | |
|-----------|------------------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | | |
| 1 | 10520.00 | 41.63 | 11.42 | 53.05 | 74.00 | -20.95 | Peak | Horizontal | | | |
| 2 | 10520.00 | 28.92 | 11.42 | 40.34 | 54.00 | -13.66 | Average | Horizontal | | | |
| 3 | 15780.00 | 43.84 | 11.16 | 55.00 | 74.00 | -19.00 | Peak | Horizontal | | | |
| 4 | 15780.00 | 27.26 | 11.16 | 38.42 | 54.00 | -15.58 | Average | Horizontal | | | |
| 5 | 10520.00 | 41.07 | 9.43 | 50.50 | 74.00 | -23.50 | Peak | Vertical | | | |
| 6 | 10520.00 | 28.75 | 9.43 | 38.18 | 54.00 | -15.82 | Average | Vertical | | | |
| 7 | 15780.00 | 39.84 | 12.19 | 52.03 | 74.00 | -21.97 | Peak | Vertical | | | |
| 8 | 15780.00 | 26.18 | 12.19 | 38.37 | 54.00 | -15.63 | Average | Vertical | | | |

| IEEE 802. | IEEE 802.11n-HT20_Channel 60 | | | | | | | | | | |
|-----------|------------------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | | |
| 1 | 10600.00 | 41.74 | 11.33 | 53.07 | 74.00 | -20.93 | Peak | Horizontal | | | |
| 2 | 10600.00 | 28.91 | 11.33 | 40.24 | 54.00 | -13.76 | Average | Horizontal | | | |
| 3 | 15900.00 | 44.04 | 11.33 | 55.37 | 74.00 | -18.63 | Peak | Horizontal | | | |
| 4 | 15900.00 | 27.08 | 11.33 | 38.41 | 54.00 | -15.59 | Average | Horizontal | | | |
| 5 | 10600.00 | 40.51 | 9.37 | 49.88 | 74.00 | -24.12 | Peak | Vertical | | | |
| 6 | 10600.00 | 29.13 | 9.37 | 38.50 | 54.00 | -15.50 | Average | Vertical | | | |
| 7 | 15900.00 | 38.03 | 12.45 | 50.48 | 74.00 | -23.52 | Peak | Vertical | | | |
| 8 | 15900.00 | 25.70 | 12.45 | 38.15 | 54.00 | -15.85 | Average | Vertical | | | |

| IEEE 802. | 11n-HT20_C | channel 64 | | | | | | |
|-----------|--------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis |
| 1 | 10640.00 | 41.65 | 11.29 | 52.94 | 74.00 | -21.06 | Peak | Horizontal |
| 2 | 10640.00 | 29.05 | 11.29 | 40.34 | 54.00 | -13.66 | Average | Horizontal |
| 3 | 15960.00 | 42.43 | 11.49 | 53.92 | 74.00 | -20.08 | Peak | Horizontal |
| 4 | 15960.00 | 27.05 | 11.49 | 38.54 | 54.00 | -15.46 | Average | Horizontal |
| 5 | 10640.00 | 40.86 | 9.34 | 50.20 | 74.00 | -23.80 | Peak | Vertical |
| 6 | 10640.00 | 29.00 | 9.34 | 38.34 | 54.00 | -15.66 | Average | Vertical |
| 7 | 15960.00 | 38.44 | 12.66 | 51.10 | 74.00 | -22.90 | Peak | Vertical |
| 8 | 15960.00 | 26.01 | 12.66 | 38.67 | 54.00 | -15.33 | Average | Vertical |



| IEEE 802. | IEEE 802.11n-HT20_Channel 100 | | | | | | | | | | |
|-----------|-------------------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | | |
| 1 | 11000.00 | 41.64 | 10.30 | 51.94 | 74.00 | -22.06 | Peak | Horizontal | | | |
| 2 | 11000.00 | 29.49 | 10.30 | 39.79 | 54.00 | -14.21 | Average | Horizontal | | | |
| 3 | 16500.00 | 39.26 | 13.35 | 52.61 | 74.00 | -21.39 | Peak | Horizontal | | | |
| 4 | 16500.00 | 27.10 | 13.35 | 40.45 | 54.00 | -13.55 | Average | Horizontal | | | |
| 5 | 11000.00 | 42.33 | 8.50 | 50.83 | 74.00 | -23.17 | Peak | Vertical | | | |
| 6 | 11000.00 | 29.63 | 8.50 | 38.13 | 54.00 | -15.87 | Average | Vertical | | | |
| 7 | 16500.00 | 37.72 | 13.45 | 51.17 | 74.00 | -22.83 | Peak | Vertical | | | |
| 8 | 16500.00 | 24.77 | 13.45 | 38.22 | 54.00 | -15.78 | Average | Vertical | | | |

| IEEE 802.11n-HT20_Channel 116 | | | | | | | | | | |
|-------------------------------|--------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | |
| 1 | 11160.00 | 41.39 | 9.97 | 51.36 | 74.00 | -22.64 | Peak | Horizontal | | |
| 2 | 11160.00 | 28.75 | 9.97 | 38.72 | 54.00 | -15.28 | Average | Horizontal | | |
| 3 | 16740.00 | 38.93 | 13.24 | 52.17 | 74.00 | -21.83 | Peak | Horizontal | | |
| 4 | 16740.00 | 27.00 | 13.24 | 40.24 | 54.00 | -13.76 | Average | Horizontal | | |
| 5 | 11160.00 | 41.31 | 8.27 | 49.58 | 74.00 | -24.42 | Peak | Vertical | | |
| 6 | 11160.00 | 28.57 | 8.27 | 36.84 | 54.00 | -17.16 | Average | Vertical | | |
| 7 | 16740.00 | 38.04 | 13.01 | 51.05 | 74.00 | -22.95 | Peak | Vertical | | |
| 8 | 16740.00 | 25.35 | 13.01 | 38.36 | 54.00 | -15.64 | Average | Vertical | | |

| IEEE 802. | IEEE 802.11n-HT20_Channel 140 | | | | | | | | | | |
|-----------|-------------------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | | |
| 1 | 11400.00 | 41.89 | 9.86 | 51.75 | 74.00 | -22.25 | Peak | Horizontal | | | |
| 2 | 11400.00 | 29.69 | 9.86 | 39.55 | 54.00 | -14.45 | Average | Horizontal | | | |
| 3 | 17100.00 | 39.12 | 13.42 | 52.54 | 74.00 | -21.46 | Peak | Horizontal | | | |
| 4 | 17100.00 | 26.87 | 13.42 | 40.29 | 54.00 | -13.71 | Average | Horizontal | | | |
| 5 | 11400.00 | 41.96 | 8.30 | 50.26 | 74.00 | -23.74 | Peak | Vertical | | | |
| 6 | 11400.00 | 29.83 | 8.30 | 38.13 | 54.00 | -15.87 | Average | Vertical | | | |
| 7 | 17100.00 | 39.13 | 12.76 | 51.89 | 74.00 | -22.11 | Peak | Vertical | | | |
| 8 | 17100.00 | 26.88 | 12.76 | 39.64 | 54.00 | -14.36 | Average | Vertical | | | |



| IEEE 802. | IEEE 802.11n-HT20_Channel 149 | | | | | | | | | | |
|-----------|-------------------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | | |
| 1 | 11490.00 | 40.41 | 9.78 | 50.19 | 74.00 | -23.81 | Peak | Horizontal | | | |
| 2 | 11490.00 | 28.14 | 9.78 | 37.92 | 54.00 | -16.08 | Average | Horizontal | | | |
| 3 | 17235.00 | 38.92 | 13.98 | 52.90 | 74.00 | -21.10 | Peak | Horizontal | | | |
| 4 | 17235.00 | 26.16 | 13.98 | 40.14 | 54.00 | -13.86 | Average | Horizontal | | | |
| 5 | 11490.00 | 40.10 | 8.27 | 48.37 | 74.00 | -25.63 | Peak | Vertical | | | |
| 6 | 11490.00 | 28.02 | 8.27 | 36.29 | 54.00 | -17.71 | Average | Vertical | | | |
| 7 | 17235.00 | 36.44 | 13.24 | 49.68 | 74.00 | -24.32 | Peak | Vertical | | | |
| 8 | 17235.00 | 23.99 | 13.24 | 37.23 | 54.00 | -16.77 | Average | Vertical | | | |

| IEEE 802. | IEEE 802.11n-HT20_Channel 157 | | | | | | | | | | |
|-----------|-------------------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | | |
| 1 | 11570.00 | 39.34 | 9.86 | 49.20 | 74.00 | -24.80 | Peak | Horizontal | | | |
| 2 | 11570.00 | 27.68 | 9.86 | 37.54 | 54.00 | -16.46 | Average | Horizontal | | | |
| 3 | 17355.00 | 39.68 | 14.49 | 54.17 | 74.00 | -19.83 | Peak | Horizontal | | | |
| 4 | 17355.00 | 27.23 | 14.49 | 41.72 | 54.00 | -12.28 | Average | Horizontal | | | |
| 5 | 11570.00 | 40.19 | 8.47 | 48.66 | 74.00 | -25.34 | Peak | Vertical | | | |
| 6 | 11570.00 | 27.95 | 8.47 | 36.42 | 54.00 | -17.58 | Average | Vertical | | | |
| 7 | 17355.00 | 37.91 | 13.68 | 51.59 | 74.00 | -22.41 | Peak | Vertical | | | |
| 8 | 17355.00 | 26.20 | 13.68 | 39.88 | 54.00 | -14.12 | Average | Vertical | | | |

| IEEE 802. | IEEE 802.11n-HT20_Channel 165 | | | | | | | | | | |
|-----------|-------------------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | | |
| 1 | 11650.00 | 41.52 | 9.95 | 51.47 | 74.00 | -22.53 | Peak | Horizontal | | | |
| 2 | 11650.00 | 28.08 | 9.95 | 38.03 | 54.00 | -15.97 | Average | Horizontal | | | |
| 3 | 17475.00 | 39.53 | 14.89 | 54.42 | 74.00 | -19.58 | Peak | Horizontal | | | |
| 4 | 17475.00 | 27.20 | 14.89 | 42.09 | 54.00 | -11.91 | Average | Horizontal | | | |
| 5 | 11650.00 | 40.21 | 8.69 | 48.90 | 74.00 | -25.10 | Peak | Vertical | | | |
| 6 | 11650.00 | 27.75 | 8.69 | 36.44 | 54.00 | -17.56 | Average | Vertical | | | |
| 7 | 17475.00 | 37.17 | 14.00 | 51.17 | 74.00 | -22.83 | Peak | Vertical | | | |
| 8 | 17475.00 | 25.05 | 14.00 | 39.05 | 54.00 | -14.95 | Average | Vertical | | | |



| IEEE 802. | IEEE 802.11n-HT40_Channel 38 | | | | | | | | | | |
|-----------|------------------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | | |
| 1 | 10380.00 | 38.63 | 11.17 | 49.80 | 74.00 | -24.20 | Peak | Horizontal | | | |
| 2 | 10380.00 | 28.57 | 11.17 | 39.74 | 54.00 | -14.26 | Average | Horizontal | | | |
| 3 | 15570.00 | 38.30 | 10.84 | 49.14 | 74.00 | -24.86 | Peak | Horizontal | | | |
| 4 | 15570.00 | 27.05 | 10.84 | 37.89 | 54.00 | -16.11 | Average | Horizontal | | | |
| 5 | 10380.00 | 39.98 | 9.41 | 49.39 | 74.00 | -24.61 | Peak | Vertical | | | |
| 6 | 10380.00 | 28.56 | 9.41 | 37.97 | 54.00 | -16.03 | Average | Vertical | | | |
| 7 | 15570.00 | 38.55 | 11.69 | 50.24 | 74.00 | -23.76 | Peak | Vertical | | | |
| 8 | 15570.00 | 26.53 | 11.69 | 38.22 | 54.00 | -15.78 | Average | Vertical | | | |

| IEEE 802. | IEEE 802.11n-HT40_Channel 46 | | | | | | | | | | |
|-----------|------------------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | | |
| 1 | 10460.00 | 40.67 | 11.35 | 52.02 | 74.00 | -21.98 | Peak | Horizontal | | | |
| 2 | 10460.00 | 28.69 | 11.35 | 40.04 | 54.00 | -13.96 | Average | Horizontal | | | |
| 3 | 15690.00 | 39.72 | 11.03 | 50.75 | 74.00 | -23.25 | Peak | Horizontal | | | |
| 4 | 15690.00 | 27.14 | 11.03 | 38.17 | 54.00 | -15.83 | Average | Horizontal | | | |
| 5 | 10460.00 | 41.13 | 9.43 | 50.56 | 74.00 | -23.44 | Peak | Vertical | | | |
| 6 | 10460.00 | 28.52 | 9.43 | 37.95 | 54.00 | -16.05 | Average | Vertical | | | |
| 7 | 15690.00 | 38.32 | 11.98 | 50.30 | 74.00 | -23.70 | Peak | Vertical | | | |
| 8 | 15690.00 | 26.40 | 11.98 | 38.38 | 54.00 | -15.62 | Average | Vertical | | | |

| IEEE 802. | 11n-HT40_C | hannel 54 | | | | | | |
|-----------|--------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis |
| 1 | 10540.00 | 40.51 | 11.41 | 51.92 | 74.00 | -22.08 | Peak | Horizontal |
| 2 | 10540.00 | 28.09 | 11.41 | 39.50 | 54.00 | -14.50 | Average | Horizontal |
| 3 | 15810.00 | 38.37 | 11.21 | 49.58 | 74.00 | -24.42 | Peak | Horizontal |
| 4 | 15810.00 | 26.49 | 11.21 | 37.70 | 54.00 | -16.30 | Average | Horizontal |
| 5 | 10540.00 | 40.35 | 9.42 | 49.77 | 74.00 | -24.23 | Peak | Vertical |
| 6 | 10540.00 | 27.99 | 9.42 | 37.41 | 54.00 | -16.59 | Average | Vertical |
| 7 | 15810.00 | 37.12 | 12.26 | 49.38 | 74.00 | -24.62 | Peak | Vertical |
| 8 | 15810.00 | 25.33 | 12.26 | 37.59 | 54.00 | -16.41 | Average | Vertical |



| IEEE 802. | IEEE 802.11n-HT40_Channel 62 | | | | | | | | | | |
|-----------|------------------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | | |
| 1 | 10620.00 | 40.14 | 11.30 | 51.44 | 74.00 | -22.56 | Peak | Horizontal | | | |
| 2 | 10620.00 | 28.30 | 11.30 | 39.60 | 54.00 | -14.40 | Average | Horizontal | | | |
| 3 | 15930.00 | 39.22 | 11.41 | 50.63 | 74.00 | -23.37 | Peak | Horizontal | | | |
| 4 | 15930.00 | 26.73 | 11.41 | 38.14 | 54.00 | -15.86 | Average | Horizontal | | | |
| 5 | 10620.00 | 40.27 | 9.35 | 49.62 | 74.00 | -24.38 | Peak | Vertical | | | |
| 6 | 10620.00 | 28.24 | 9.35 | 37.59 | 54.00 | -16.41 | Average | Vertical | | | |
| 7 | 15930.00 | 38.49 | 12.56 | 51.05 | 74.00 | -22.95 | Peak | Vertical | | | |
| 8 | 15930.00 | 25.52 | 12.56 | 38.08 | 54.00 | -15.92 | Average | Vertical | | | |

| IEEE 802. | IEEE 802.11n-HT40_Channel 102 | | | | | | | | | | |
|-----------|-------------------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | | |
| 1 | 11020.00 | 41.15 | 10.24 | 51.39 | 74.00 | -22.61 | Peak | Horizontal | | | |
| 2 | 11020.00 | 28.84 | 10.24 | 39.08 | 54.00 | -14.92 | Average | Horizontal | | | |
| 3 | 16530.00 | 39.33 | 13.34 | 52.67 | 74.00 | -21.33 | Peak | Horizontal | | | |
| 4 | 16530.00 | 26.72 | 13.34 | 40.06 | 54.00 | -13.94 | Average | Horizontal | | | |
| 5 | 11020.00 | 40.55 | 8.45 | 49.00 | 74.00 | -25.00 | Peak | Vertical | | | |
| 6 | 11020.00 | 29.04 | 8.45 | 37.49 | 54.00 | -16.51 | Average | Vertical | | | |
| 7 | 16530.00 | 36.52 | 13.40 | 49.92 | 74.00 | -24.08 | Peak | Vertical | | | |
| 8 | 16530.00 | 24.74 | 13.40 | 38.14 | 54.00 | -15.86 | Average | Vertical | | | |

| IEEE 802. | 11n-HT40_C | Channel 110 | | | | | | |
|-----------|--------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis |
| 1 | 11100.00 | 40.59 | 10.00 | 50.59 | 74.00 | -23.41 | Peak | Horizontal |
| 2 | 11100.00 | 28.17 | 10.00 | 38.17 | 54.00 | -15.83 | Average | Horizontal |
| 3 | 16650.00 | 38.61 | 13.29 | 51.90 | 74.00 | -22.10 | Peak | Horizontal |
| 4 | 16650.00 | 26.69 | 13.29 | 39.98 | 54.00 | -14.02 | Average | Horizontal |
| 5 | 11100.00 | 40.30 | 8.26 | 48.56 | 74.00 | -25.44 | Peak | Vertical |
| 6 | 11100.00 | 28.02 | 8.26 | 36.28 | 54.00 | -17.72 | Average | Vertical |
| 7 | 16650.00 | 36.77 | 13.18 | 49.95 | 74.00 | -24.05 | Peak | Vertical |
| 8 | 16650.00 | 24.77 | 13.18 | 37.95 | 54.00 | -16.05 | Average | Vertical |



IEEE 802.11n-HT40 Channel 134 Frequency Reading Correction Result Limit Margin **Antenna** No. **Detector** (dBuV/m) (dBuV/m) (dBuV/m) (MHz) factor (dB) (dB) **Polaxis** 41.04 1 11340.00 9.89 50.93 74.00 -23.07 Peak Horizontal 2 11340.00 28.53 9.89 38.42 54.00 -15.58 Horizontal Average 3 17010.00 38.88 13.18 52.06 74.00 -21.94 Peak Horizontal 17010.00 54.00 -14.00 4 26.82 13.18 40.00 Average Horizontal 5 41.72 74.00 -23.99 11340.00 8.29 50.01 Peak Vertical 6 11340.00 28.89 8.29 37.18 54.00 -16.82 Average Vertical 7 17010.00 36.72 12.57 49.29 74.00 -24.71 Peak Vertical 8 17010.00 12.57 54.00 -17.17 Vertical 24.26 36.83 Average

| IEEE 802. | IEEE 802.11n-HT40_Channel 151 | | | | | | | | | | |
|-----------|-------------------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | | |
| 1 | 11510.00 | 41.29 | 9.79 | 51.08 | 74.00 | -22.92 | Peak | Horizontal | | | |
| 2 | 11510.00 | 29.00 | 9.79 | 38.79 | 54.00 | -15.21 | Average | Horizontal | | | |
| 3 | 17265.00 | 38.22 | 14.11 | 52.33 | 74.00 | -21.67 | Peak | Horizontal | | | |
| 4 | 17265.00 | 26.60 | 14.11 | 40.71 | 54.00 | -13.29 | Average | Horizontal | | | |
| 5 | 11510.00 | 41.53 | 8.30 | 49.83 | 74.00 | -24.17 | Peak | Vertical | | | |
| 6 | 11510.00 | 29.08 | 8.30 | 37.38 | 54.00 | -16.62 | Average | Vertical | | | |
| 7 | 17265.00 | 36.17 | 13.35 | 49.52 | 74.00 | -24.48 | Peak | Vertical | | | |
| 8 | 17265.00 | 23.59 | 13.35 | 36.94 | 54.00 | -17.06 | Average | Vertical | | | |

| IEEE 802. | IEEE 802.11n-HT40_Channel 159 | | | | | | | | | | | |
|-----------|-------------------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | | | |
| 1 | 11590.00 | 40.91 | 9.87 | 50.78 | 74.00 | -23.22 | Peak | Horizontal | | | | |
| 2 | 11590.00 | 28.47 | 9.87 | 38.34 | 54.00 | -15.66 | Average | Horizontal | | | | |
| 3 | 17385.00 | 39.26 | 14.62 | 53.88 | 74.00 | -20.12 | Peak | Horizontal | | | | |
| 4 | 17385.00 | 27.35 | 14.62 | 41.97 | 54.00 | -12.03 | Average | Horizontal | | | | |
| 5 | 11590.00 | 40.59 | 8.52 | 49.11 | 74.00 | -24.89 | Peak | Vertical | | | | |
| 6 | 11590.00 | 28.57 | 8.52 | 37.09 | 54.00 | -16.91 | Average | Vertical | | | | |
| 7 | 17385.00 | 38.67 | 13.79 | 52.46 | 74.00 | -21.54 | Peak | Vertical | | | | |
| 8 | 17385.00 | 26.37 | 13.79 | 40.16 | 54.00 | -13.84 | Average | Vertical | | | | |



| IEEE 802. | IEEE 802.11ac-VHT80_Channel 42 | | | | | | | | | | |
|-----------|--------------------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|--|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | | | |
| 1 | 10460.00 | 40.87 | 11.35 | 52.22 | 74.00 | -21.78 | Peak | Horizontal | | | |
| 2 | 10460.00 | 29.21 | 11.35 | 40.56 | 54.00 | -13.44 | Average | Horizontal | | | |
| 3 | 15690.00 | 39.49 | 11.03 | 50.52 | 74.00 | -23.48 | Peak | Horizontal | | | |
| 4 | 15690.00 | 27.33 | 11.03 | 38.36 | 54.00 | -15.64 | Average | Horizontal | | | |
| 5 | 10460.00 | 40.84 | 9.43 | 50.27 | 74.00 | -23.73 | Peak | Vertical | | | |
| 6 | 10460.00 | 28.99 | 9.43 | 38.42 | 54.00 | -15.58 | Average | Vertical | | | |
| 7 | 15690.00 | 39.55 | 11.98 | 51.53 | 74.00 | -22.47 | Peak | Vertical | | | |
| 8 | 15690.00 | 26.53 | 11.98 | 38.51 | 54.00 | -15.49 | Average | Vertical | | | |

| IEEE 802.11ac-VHT80_Channel 58 | | | | | | | | |
|--------------------------------|--------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis |
| 1 | 10580.00 | 40.59 | 11.36 | 51.95 | 74.00 | -22.05 | Peak | Horizontal |
| 2 | 10580.00 | 28.37 | 11.36 | 39.73 | 54.00 | -14.27 | Average | Horizontal |
| 3 | 15870.00 | 38.87 | 11.29 | 50.16 | 74.00 | -23.84 | Peak | Horizontal |
| 4 | 15870.00 | 26.75 | 11.29 | 38.04 | 54.00 | -15.96 | Average | Horizontal |
| 5 | 10580.00 | 41.62 | 9.39 | 51.01 | 74.00 | -22.99 | Peak | Vertical |
| 6 | 10580.00 | 28.53 | 9.39 | 37.92 | 54.00 | -16.08 | Average | Vertical |
| 7 | 15870.00 | 37.85 | 12.38 | 50.23 | 74.00 | -23.77 | Peak | Vertical |
| 8 | 15870.00 | 25.37 | 12.38 | 37.75 | 54.00 | -16.25 | Average | Vertical |

| IEEE 802.11ac-VHT80_Channel 106 | | | | | | | | | |
|---------------------------------|--------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | |
| 1 | 11060.00 | 41.21 | 10.12 | 51.33 | 74.00 | -22.67 | Peak | Horizontal | |
| 2 | 11060.00 | 28.98 | 10.12 | 39.10 | 54.00 | -14.90 | Average | Horizontal | |
| 3 | 16590.00 | 39.26 | 13.31 | 52.57 | 74.00 | -21.43 | Peak | Horizontal | |
| 4 | 16590.00 | 26.16 | 13.31 | 39.47 | 54.00 | -14.53 | Average | Horizontal | |
| 5 | 11060.00 | 41.18 | 8.36 | 49.54 | 74.00 | -24.46 | Peak | Vertical | |
| 6 | 11060.00 | 28.93 | 8.36 | 37.29 | 54.00 | -16.71 | Average | Vertical | |
| 7 | 16590.00 | 35.97 | 13.29 | 49.26 | 74.00 | -24.74 | Peak | Vertical | |
| 8 | 16590.00 | 23.69 | 13.29 | 36.98 | 54.00 | -17.02 | Average | Vertical | |



| IEEE 802.11ac-VHT80_Channel 155 | | | | | | | | | |
|---------------------------------|--------------------|---------------------|------------------------|--------------------|-------------------|----------------|----------|--------------------|--|
| No. | Frequency (MHz) | Reading (dBuV/m) | Correction factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Antenna Polaxis | |
| 1 | 11550.00 | 42.63 | 9.83 | 52.46 | 74.00 | -21.54 | Peak | Horizontal | |
| 2 | 11550.00 | 29.11 | 9.83 | 38.94 | 54.00 | -15.06 | Average | Horizontal | |
| 3 | 17325.00 | 38.89 | 14.36 | 53.25 | 74.00 | -20.75 | Peak | Horizontal | |
| 4 | 17325.00 | 26.35 | 14.36 | 40.71 | 54.00 | -13.29 | Average | Horizontal | |
| 5 | 11550.00 | 40.96 | 8.41 | 49.37 | 74.00 | -24.63 | Peak | Vertical | |
| 6 | 11550.00 | 29.22 | 8.41 | 37.63 | 54.00 | -16.37 | Average | Vertical | |
| 7 | 17325.00 | 38.86 | 13.57 | 52.43 | 74.00 | -21.57 | Peak | Vertical | |
| 8 | 17325.00 | 26.36 | 13.57 | 39.93 | 54.00 | -14.07 | Average | Vertical | |

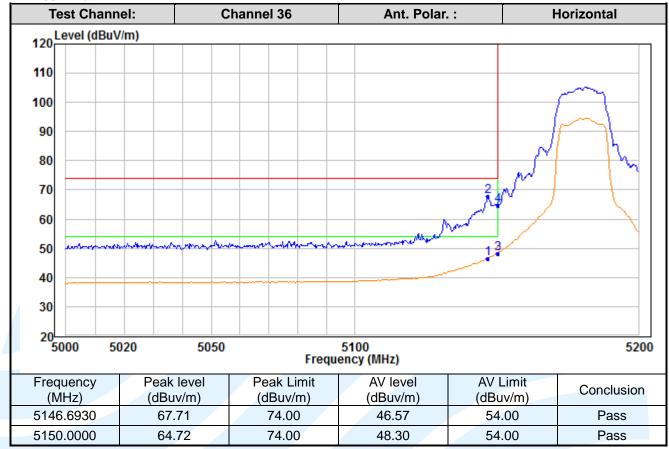
Remark:

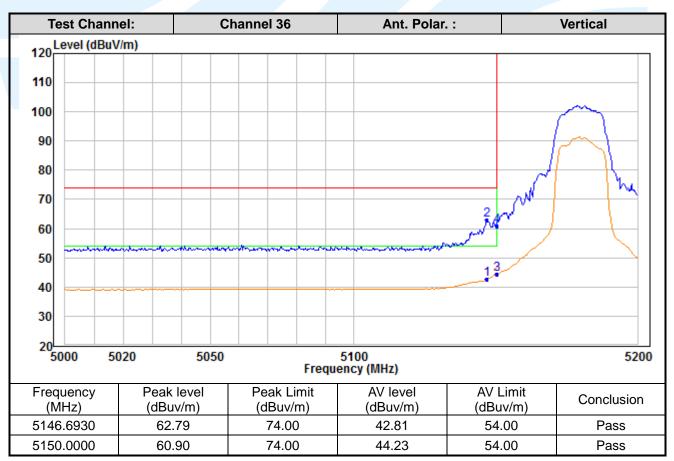
- 1. Correct Factor = Antenna Factor + Cable Loss Amplifier Gain, the value was added to Original Receiver Reading by the software automatically.
- 2. Result = Reading + Correct Factor.
- 3. Margin = Result Limit



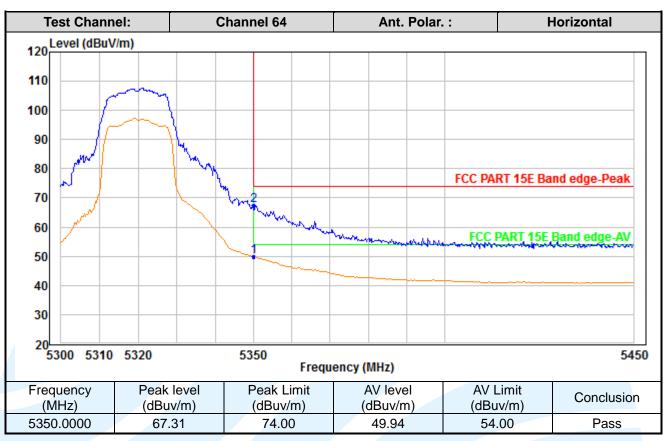
Band Edge Measurements (Radiated)

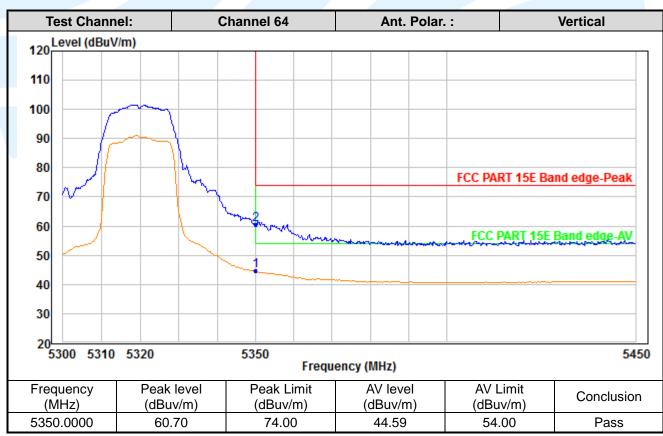
IEEE 802.11a



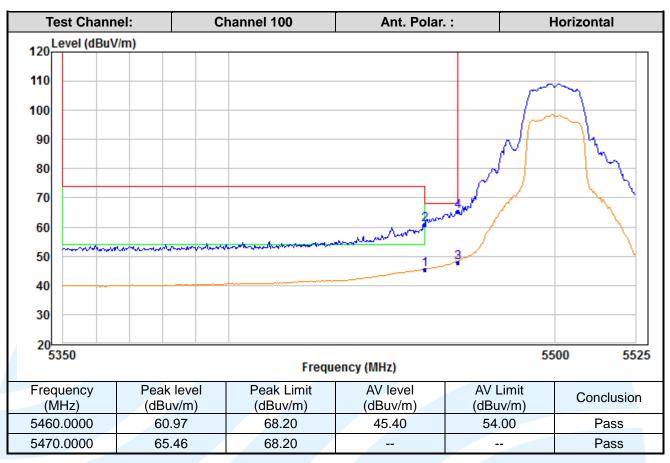


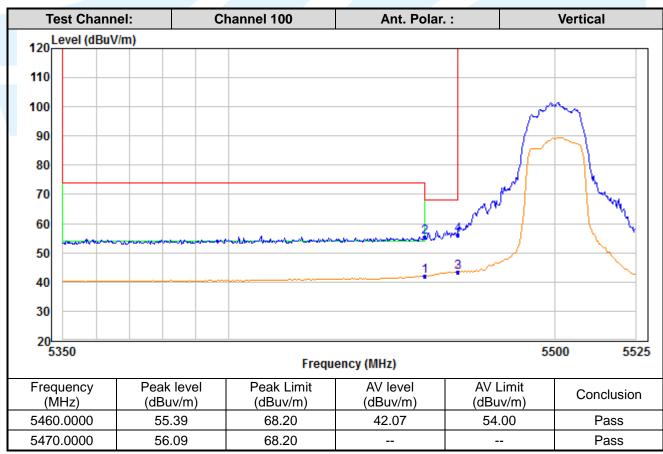




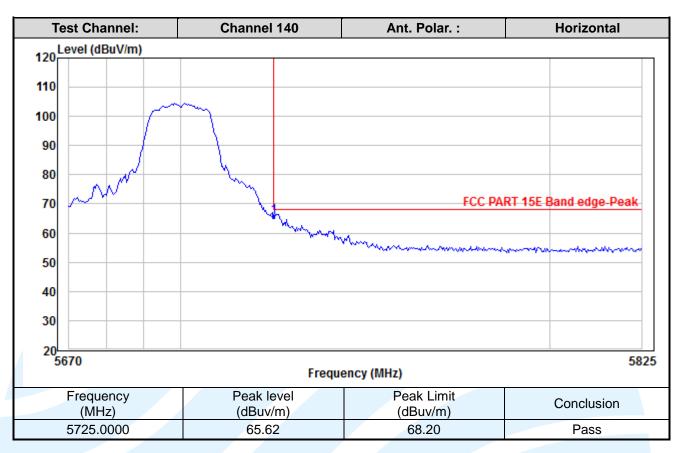


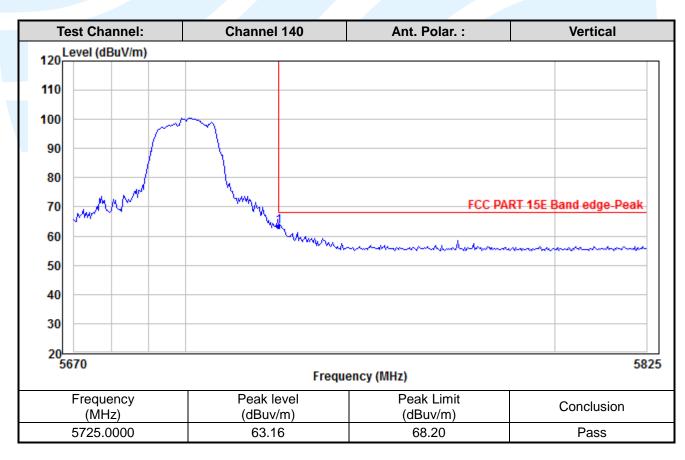




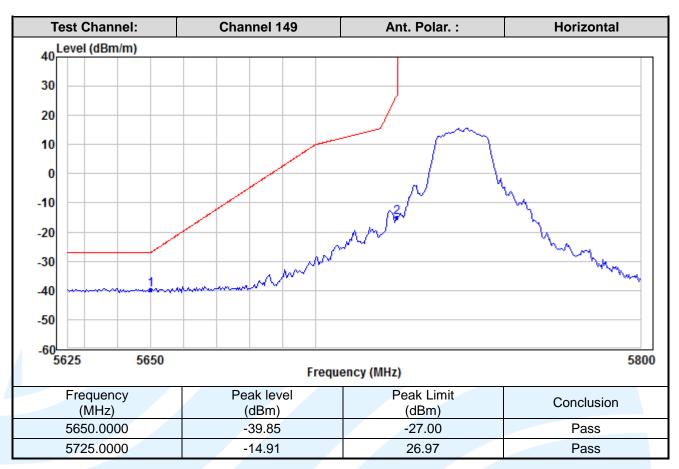


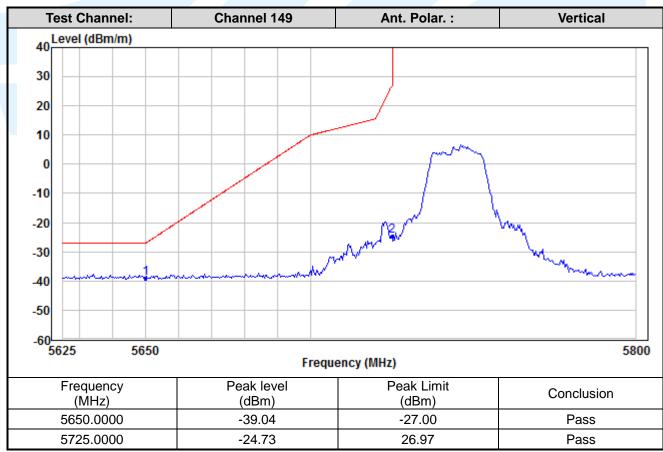




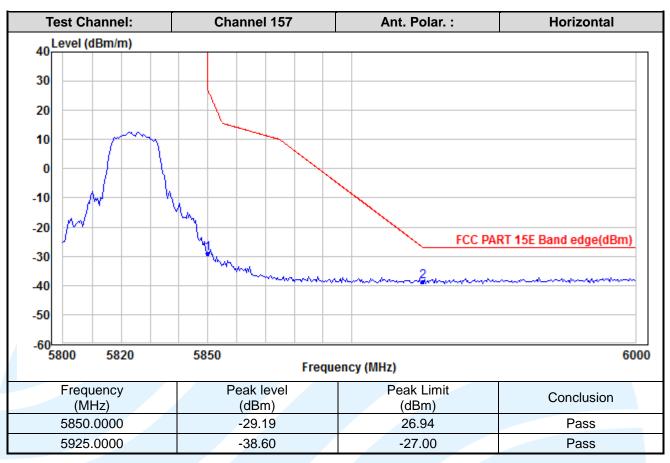


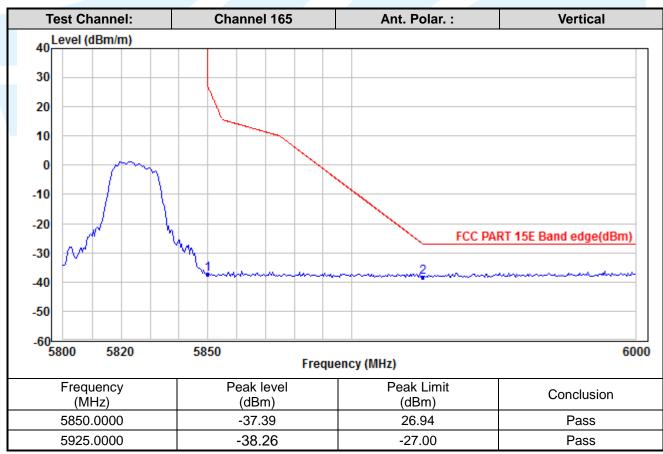






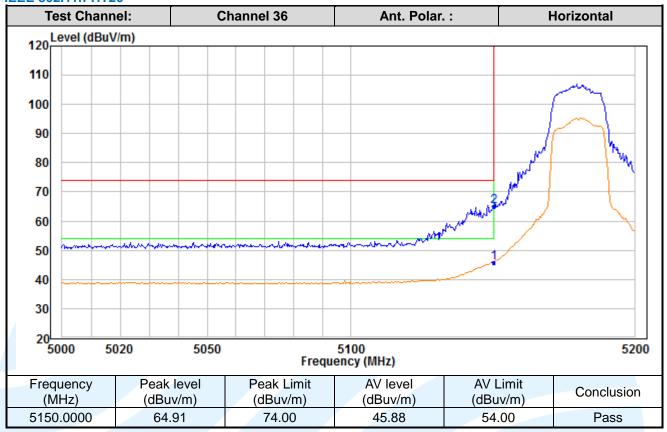


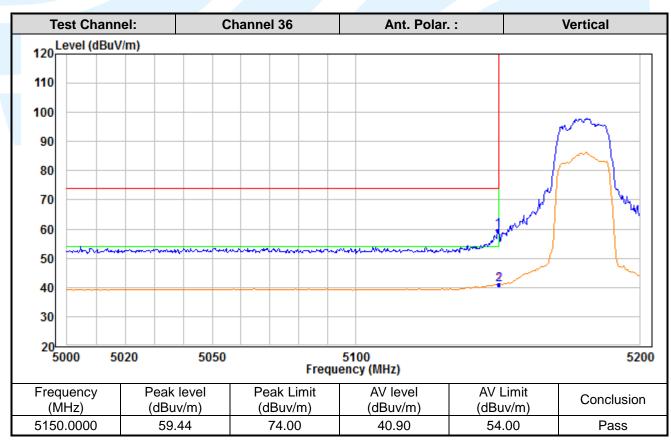




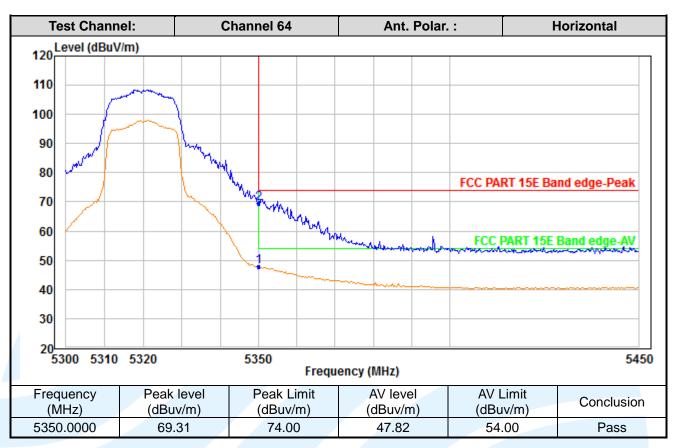


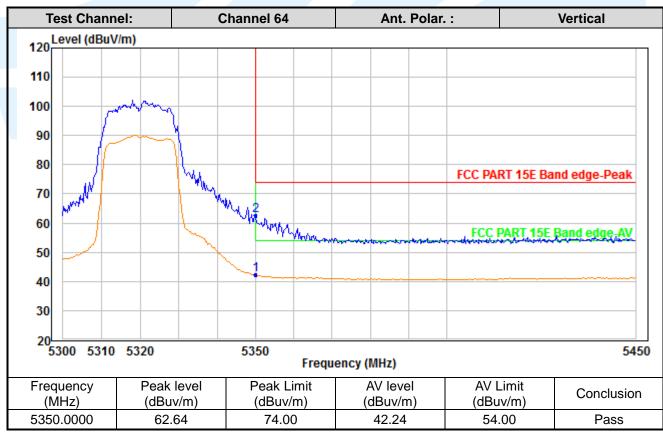
IEEE 802.11n-HT20



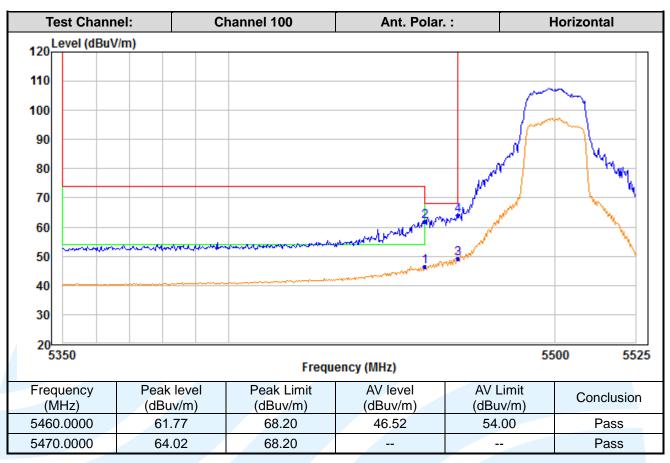


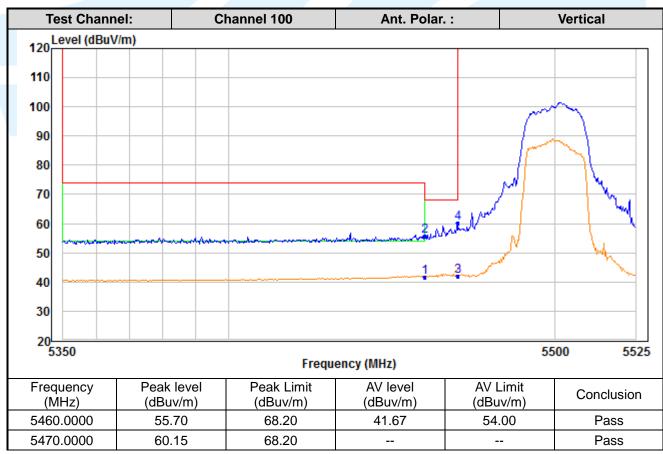




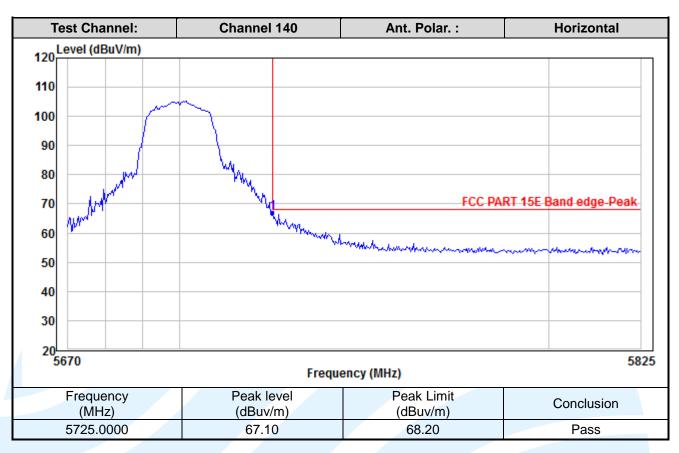


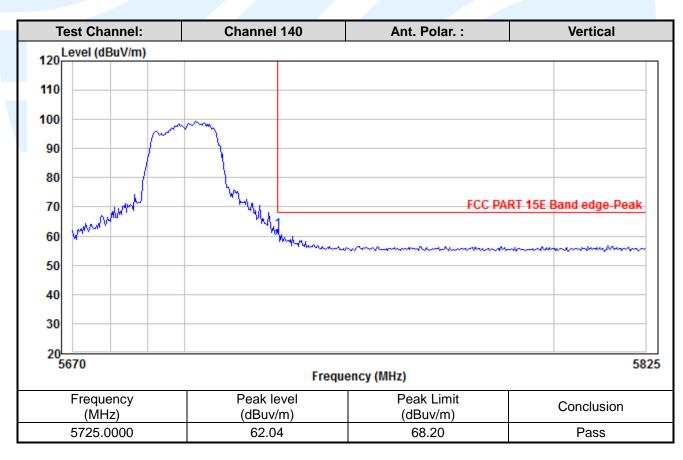




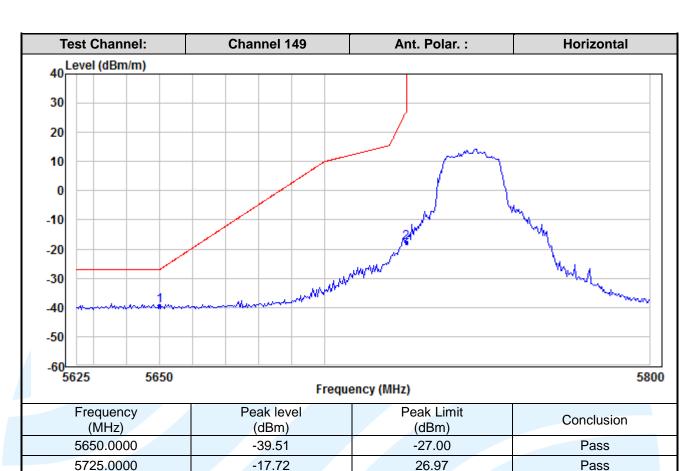


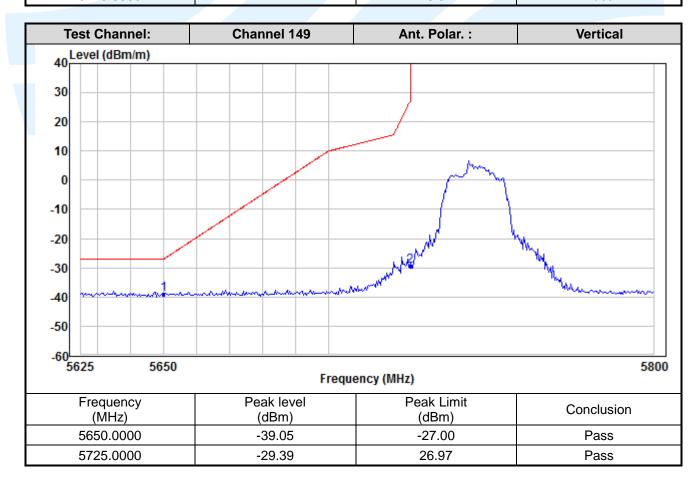




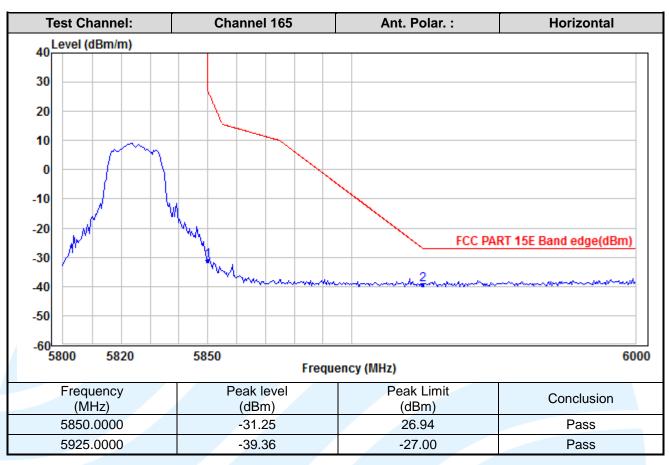


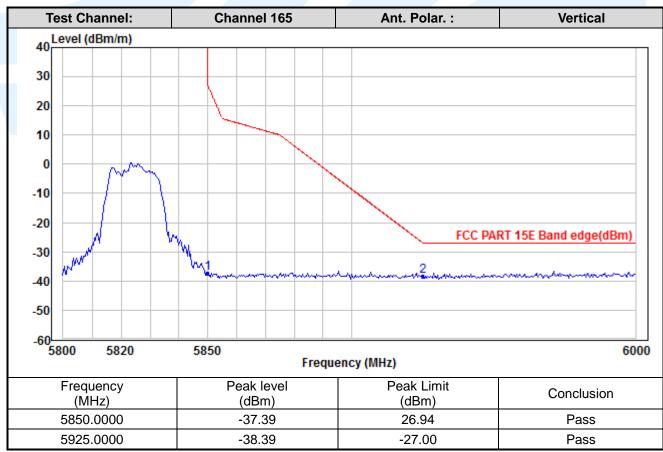






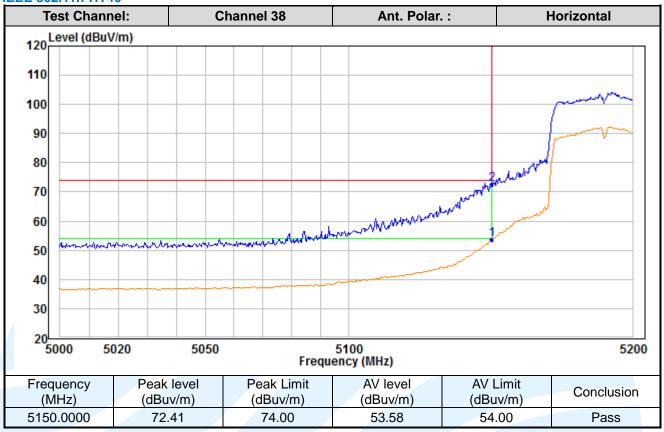


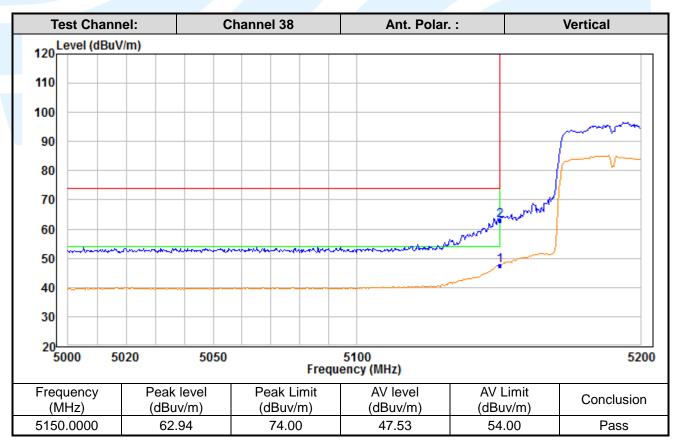




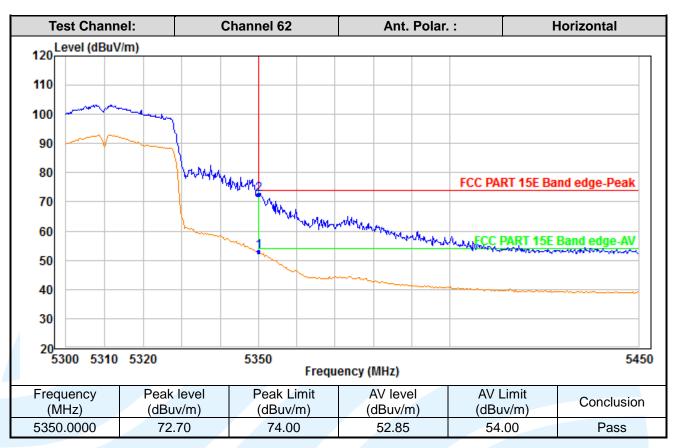


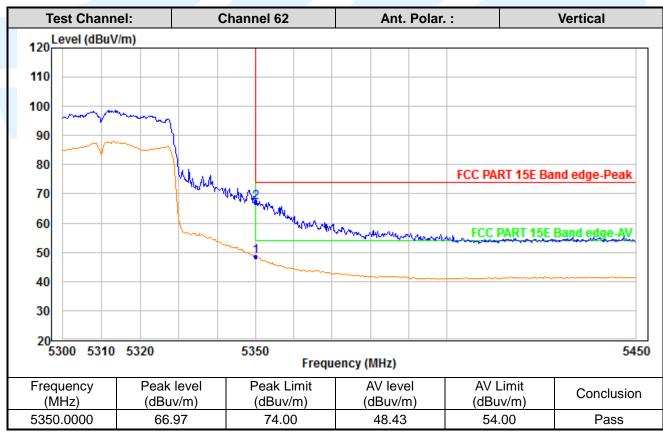
IEEE 802.11n-HT40



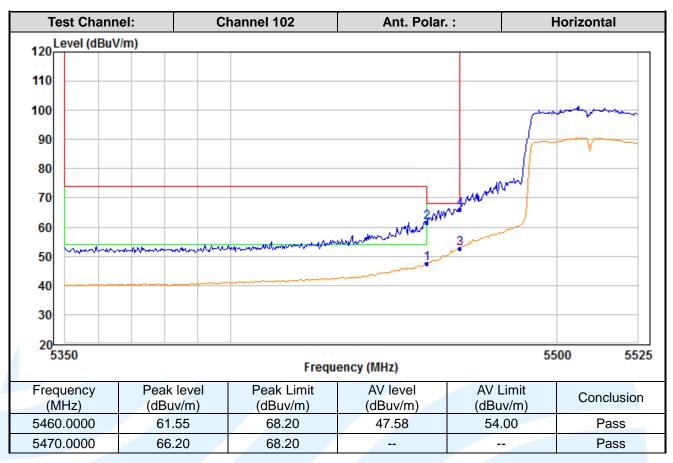


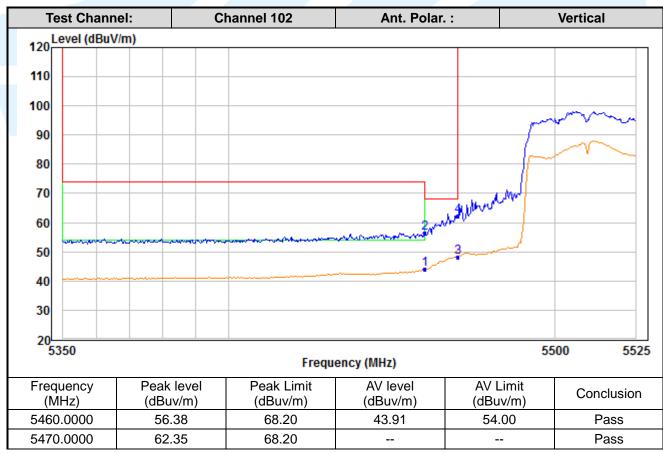




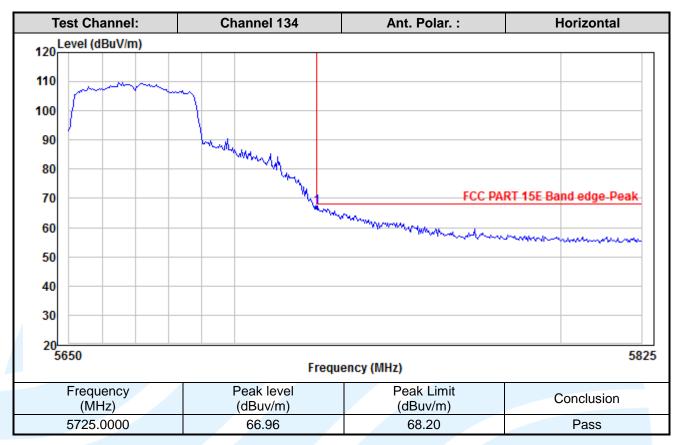


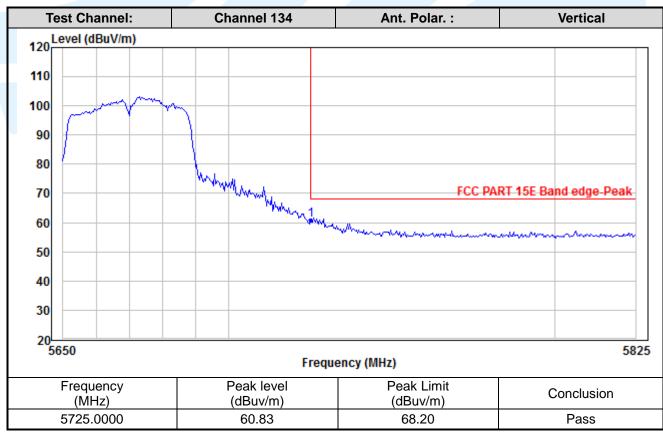




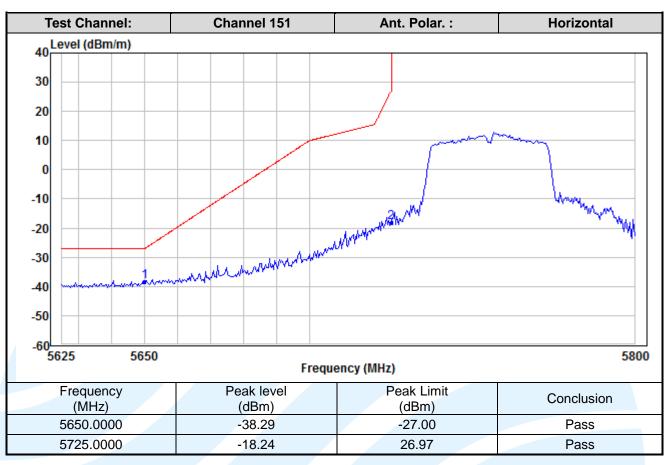


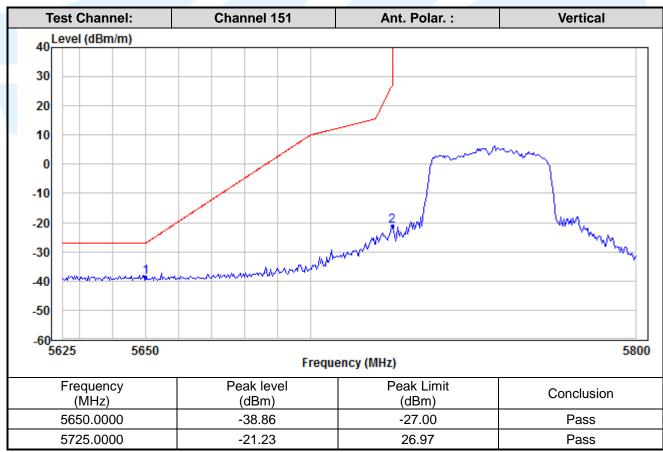




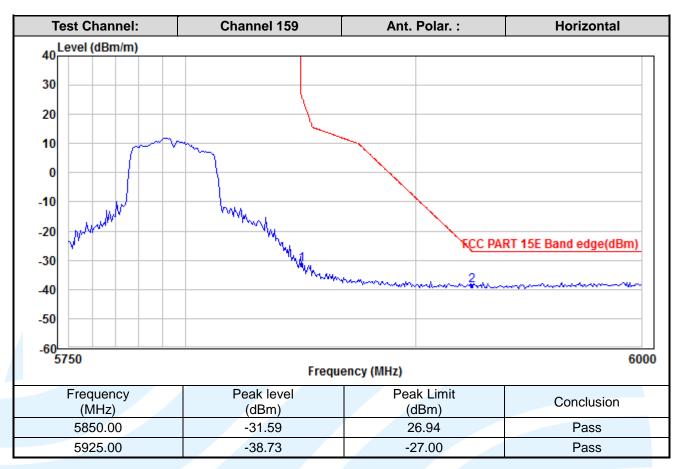


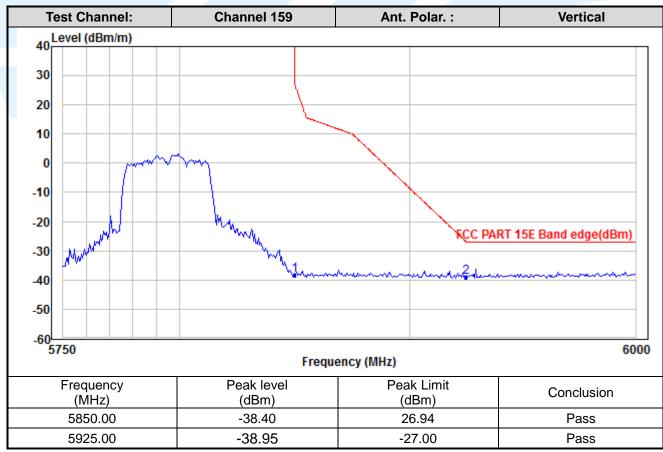






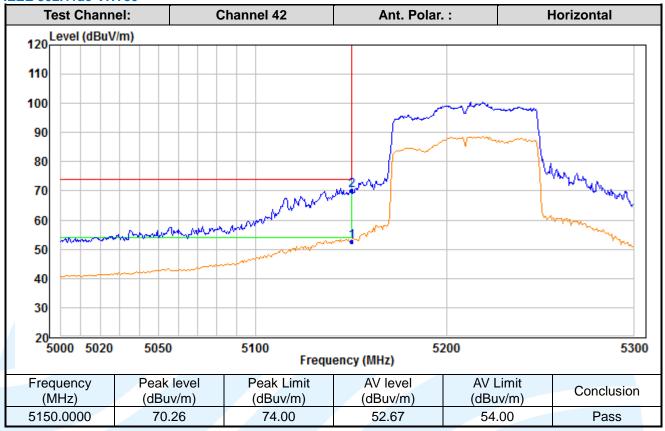


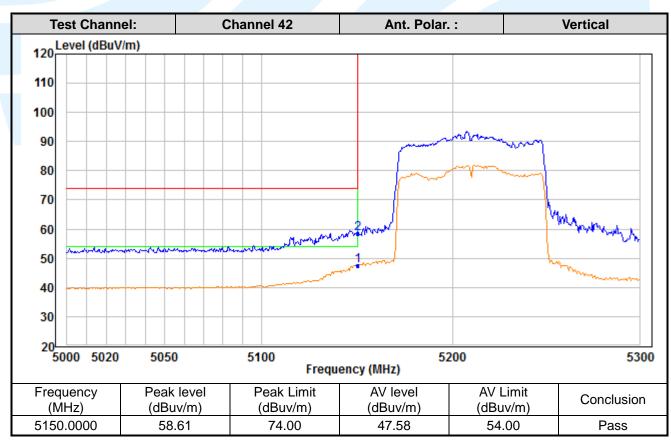




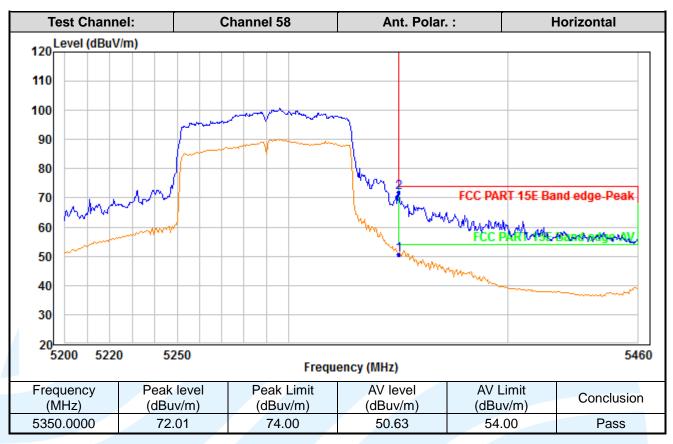


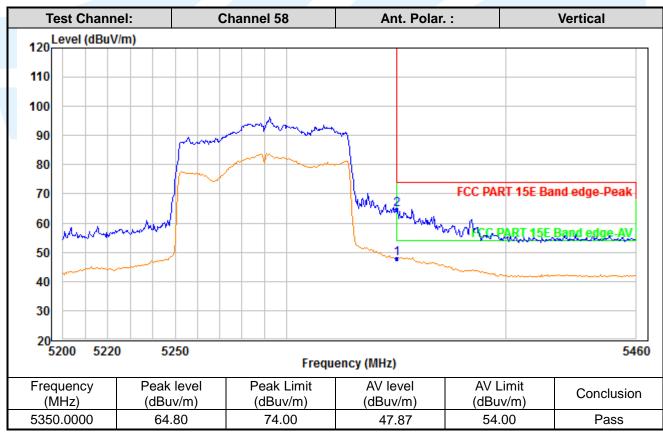
IEEE 802.11ac-VHT80



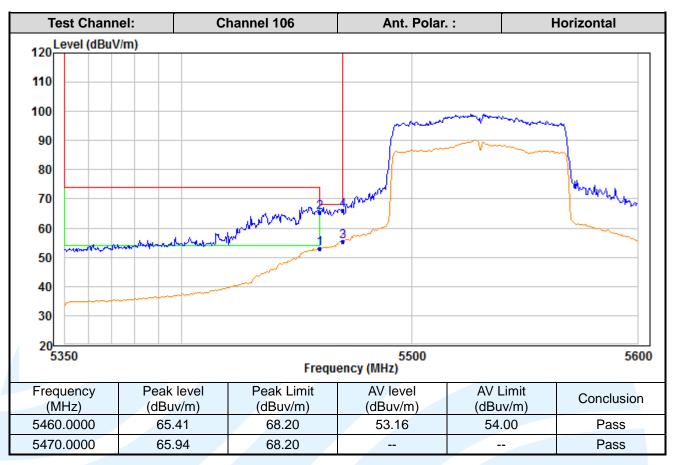


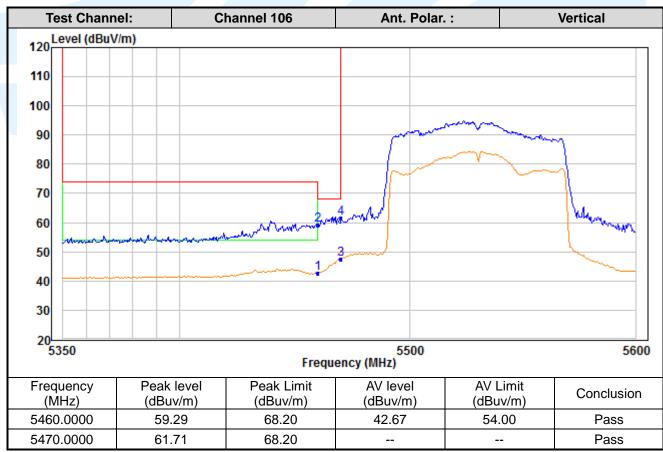




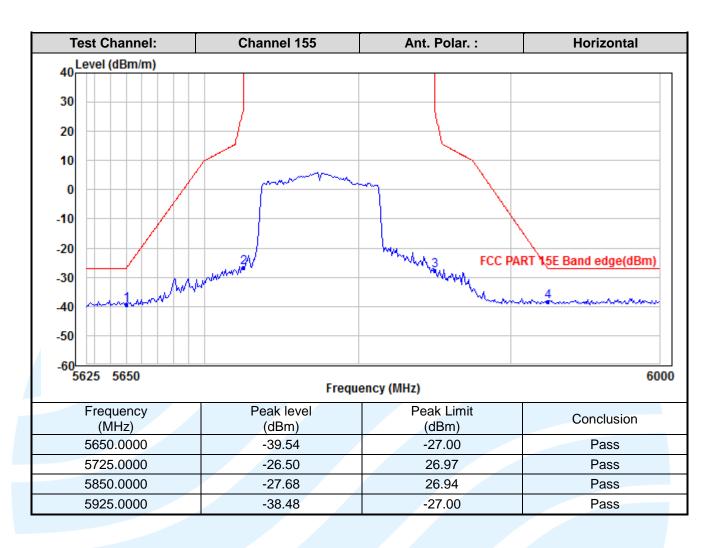




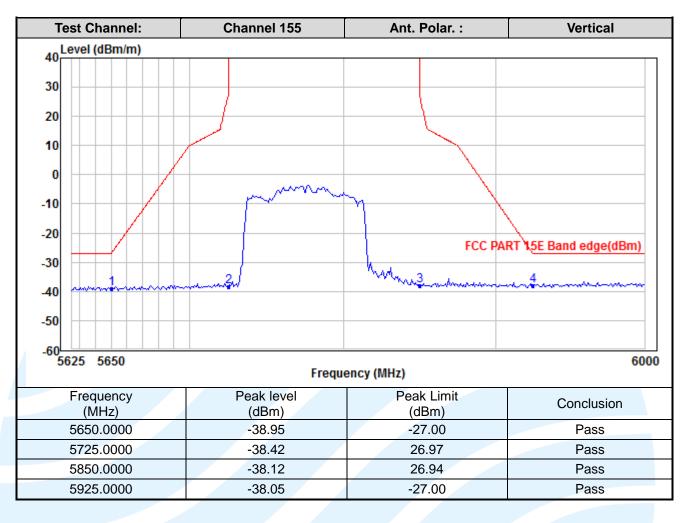














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5.8 DYNAMIC FREQUENCY SELECTION

Test Requirement: FCC 47 CFR Part 15 Subpart E Section 15.407 (h) RSS-247 Issue 2 Section 6.3

Test Method: KDB 905462 D03 Client Without DFS New Rules v01r02

EUT Operating Mode:

| DFS Operational mode | Operating Frequency Range | | |
|---|---------------------------|----------------------|--|
| Dr3 Operational mode | 5250 MHz to 5350 MHz | 5470 MHz to 5725 MHz | |
| Slave without radar Interference detection function | ✓ | ✓ | |

Applicability:

The following table from KDB905462 and the lists of the applicable requirements for the DFS testing.

Applicability of DFS Requirements Prior to Use of a Channel:

| | | Operational Mode | |
|---------------------------------|----------|-----------------------------------|--------------------------------|
| Requirement | Master | Client Without Radar Detection | Client With Radar Detection |
| Non-Occupancy Period | ✓ | Not required | Yes |
| DFS Detection Threshold | ✓ | Not required | Yes |
| Channel Availability Check Time | √ | Not required | Not required |
| U-NII Detection Bandwidth | ✓ | Not required | Yes |

Applicability of DFS requirements during normal operation:

| | Operation | Operational Mode | | | | |
|--|--|--|--|--|--|--|
| Requirement | Master Device or Client with Radar Detection | Client Without Radar Detection | | | | |
| DFS Detection Threshold | Yes | Not required | | | | |
| Channel Closing Transmission Time | Yes | Yes | | | | |
| Channel Move Time | Yes | Yes | | | | |
| U-NII Detection Bandwidth | Yes | Not required | | | | |
| Additional requirements for devices with multiple bandwidth modes | Master Device or Client with Radar Detection | Client Without Radar Detection | | | | |
| | | | | | | |
| U-NII Detection Bandwidth and Statistical Performance Check | All BW modes must be tested | Not required | | | | |
| U-NII Detection Bandwidth and Statistical Performance | All BW modes must be tested Test using widest BW mode available | Not required Test using the widest BW mode available for the link | | | | |
| U-NII Detection Bandwidth and Statistical Performance Check Channel Move Time and Channel Closing Transmission | Test using widest BW mode | Test using the widest BW | | | | |

Note: Frequencies selected for statistical performance check (Section 7.8.4) should include several frequencies within the radar detection bandwidth and frequencies near the edge of the radar detection bandwidth. For 802.11 devices it is suggested to select frequencies in each of the bonded 20 MHz channels and the channel center frequency.

DFS Detection Thresholds for Master Devices and Client Devices with Radar Detection:

| Maximum Transmit Power | Value (See Notes 1, 2, and 3) | |
|---|-------------------------------|--|
| EIRP ≥ 200 milliwatt | -64 dBm | |
| EIRP < 200 milliwatt and | -62 dBm | |
| power spectral density < 10 dBm/MHz | | |
| EIRP < 200 milliwatt that do not meet the power | -64dBm | |
| spectral density requirement | 1 2 3 2 | |



Note 1: This is the level at the input of the receiver assuming a 0 dBi receive antenna.

Note 2: Throughout these test procedures an additional 1 dB has been added to the amplitude of the test transmission waveforms to account for variations in measurement equipment. This will ensure that the test signal is at or above the detection threshold level to trigger a DFS response.

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Note3: EIRP is based on the highest antenna gain. For MIMO devices refer to KDB Publication 662911 D01.

DFS Radar Signal Parameter Values:

| Parameter | Value |
|-----------------------------------|---|
| Non-occupancy period | Minimum 30 minutes |
| Channel Availability Check Time | 60 seconds |
| Channel Move Time | 10 seconds (See Note 1.) |
| | 200 milliseconds + an aggregate of 60 |
| Channel Closing Transmission Time | milliseconds over remaining 10 second period. |
| | (See Notes 1 and 2.) |
| U-NII Detection Bandwidth | Minimum 100% of the U-NII 99% transmission |
| | power bandwidth. (See Note 3.) |

Note 1: Channel Move Time and the Channel Closing Transmission Time should be performed with Radar Type 0. The measurement timing begins at the end of the Radar Type 0 burst.

Note 2: The Channel Closing Transmission Time is comprised of 200 milliseconds starting at the beginning of the Channel Move Time plus any additional intermittent control signals required to facilitate a Channel move (an aggregate of 60 milliseconds) during the remainder of the 10 second period. The aggregate duration of control signals will not count quiet periods in between transmissions.

Note 3: During the U-NII Detection Bandwidth detection test, radar type 0 should be used. For each frequency step the minimum percentage of detection is 90 percent. Measurements are performed with no data traffic.

DFS Radar Signal Parameter:

Radar Type 0 was used in the evaluation of the Client device for the purpose of measuring the Channel Move Time and the Channel Closing Transmission Time

Table 1-Short Pulse Radar Test Waveforms

| Radar Type | Pulse Width (µsec) | PRI (µsec) | Number of Pulses Minimum Percentage of Successful Detection | | Minimum Trials |
|-----------------------------|--------------------------|------------------|---|-------------|-------------------|
| 0 | 1 | 1428 | 18 | See Note 1. | See Note 1. |
| 1 | 1 | Test A Test B | Roundup $ \begin{pmatrix} \left(\frac{1}{360}\right) \\ \left(\frac{19 \cdot 10^6}{\text{PRI}_{\mu sec}}\right) \end{pmatrix} $ | 60% | 30 |
| 2 | 1-5 | 150-230 | 23-29 | 60% | 30 |
| 3 | 6-10 | 200-500 | 16-18 | 60% | 30 |
| 4 | 11-20 | 200-500 | 12-16 | 60% | 30 |
| Aggregate (Radar Types 1-4) | | | | 80% | 120 |

Note 1: Short Pulse Radar Type 0 should be used for the detection bandwidth test, channel move time, and channel closing time tests.

Test A: 15 unique PRI values randomly selected from the list of 23 PRI values in Table 5a

Test B: 15 unique PRI values randomly selected within the range of 518-3066 μ sec, with a minimum increment of 1 μ sec, excluding PRI values selected in Test A

A minimum of 30 unique waveforms are required for each of the Short Pulse Radar Types 2 through 4. If more than 30 waveforms are used for Short Pulse Radar Types 2 through 4, then each additional waveform must also be unique and not repeated from the previous waveforms.

If more than 30 waveforms are used for Short Pulse Radar Type 1, then each additional waveform is generated with Test B and must also be unique and not repeated from the previous waveforms in Tests A or B.



The aggregate is the average of the percentage of successful detections of short pulse radar types

Table 2-Long Pulse Radar Test Waveform

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| Radar Type | | Chirp Width (MHz) | PRI (µsec) | Number of Pulses per Burst | Number of Bursts | Minimum Percentage of Successful Detection | Minimum Trials |
|---------------|--------|-------------------------|------------|----------------------------------|---------------------|--|-------------------|
| 5 | 50-100 | 5-20 | 1000-2000 | 1-3 | 8-20 | 80% | 30 |

Table 3-Frequency Hopping Radar Test Waveform

| Radar Type | Pulse Width (µsec) | PRI (µsec) | Pulses per Hop | Hopping Rate (kHz) | Hopping Sequence Length (msec) | Minimum Percentage of Successful Detection | Minimum Trials |
|---------------|--------------------------|---------------|-------------------|-----------------------|---|--|-------------------|
| 6 | 1 | 333 | 9 | 0.333 | 300 | 70% | 30 |

In-Service Monitoring: Channel Move Time, Channel Closing Transmission Time and Non-Occupancy Period

Limit of In-Service Monitoring:

Reference to DFS Radar Signal Parameter Values.

Test Procedures:

- a) One frequency will be chosen from the Operating Channels of the EUT within the 5250-5350 MHz or 5470-5725 MHz bands. For 802.11 devices, the test frequency must contain control signals. This can be verified by disabling channel loading and monitoring the spectrum analyzer. If no control signals are detected, another frequency must be selected within the emission bandwidth where control signals are detected.
- b) In case the EUT is a Master Device, a U-NII device operating as a Client Device will be used and it is assumed that the Client will associate with the EUT (Master). For radiated tests, the emissions of the Radar Waveform generator will be directed towards the Master Device. If the Master Device has antenna gain, the main beam of the antenna will be directed toward the radar emitter. Vertical polarization is used for testing.
- c) The TCP protocol unicast data stream was generated by the iperf software command line with at least 17% activity ratio over any 100ms period.
- d) Timing plots are reported with calculations demonstrating a minimum channel loading of approximately 17% or greater. For example, channel loading can be estimated by setting the spectrum analyzer for zero span and approximate the Time On/ (Time On + Off Time).
- e) At time T0 the Radar Waveform generator sends a Burst of pulses for one of the Short Pulse Radar Types 1-4 at DFS Detection Threshold levels on the Operating Channel. An additional 1 dB is added to the radar test signal to ensure it is at or above the DFS Detection Threshold, accounting for equipment variations/errors.
- f) Observe the transmissions of the EUT at the end of the radar Burst on the Operating Channel for duration greater than 10 seconds. Measure and record the transmissions from the EUT during the observation time (Channel Move Time). Measure and record the Channel Move Time and Channel Closing Transmission Time if radar detection occurs.
- g) When operating as a Master Device, monitor the EUT for more than 30 minutes following instant T2 to verify that the EUT does not resume any transmissions on this Channel. Perform this test once and record the measurement result.

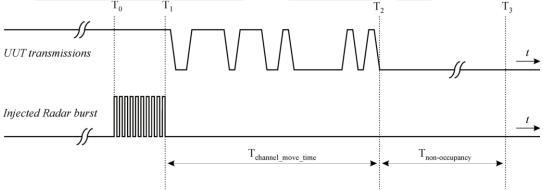
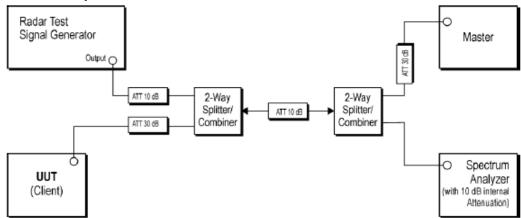


Figure 17: Channel Closing Transmission Time, Channel Move Time and Non-Occupancy Period



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Conducted test setup



Setup for Client with injection at the Master

Equipment Used: Refer to section 3 for details.

Test Result: Result of Channel Move Time, Channel Closing Transmission Time and Non-

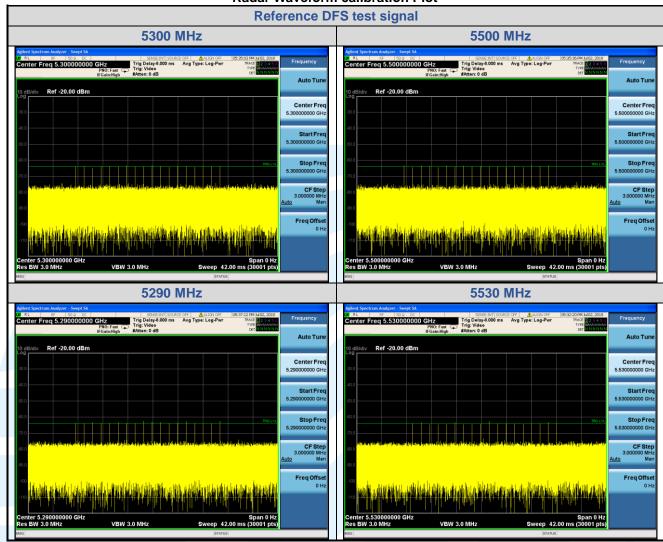
Occupancy Period for Client Beacon Tes

The measurement data as follows:

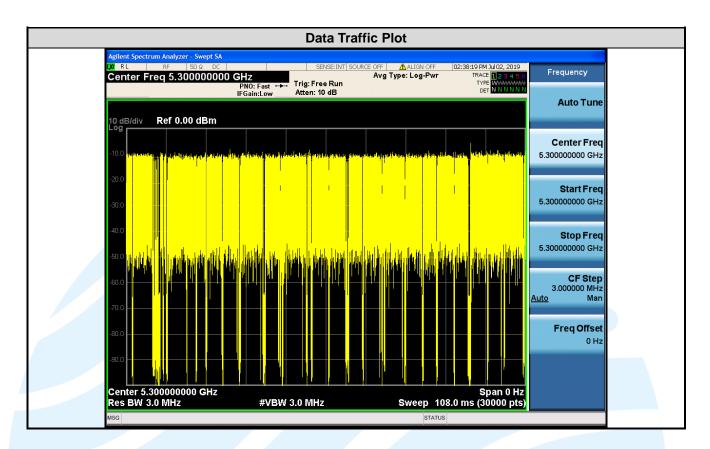
| | BW / Channel | Test Item | Test Result | Limit | Pass/Fail |
|----|------------------|--------------------------------------|-----------------|------------|-----------|
| | | Channel Move Time | 0.3864 s | < 10s | Pass |
| 20 | 0 MHz / 5300 MHz | Channel Closing Transmission Time | 3.2 ms | < 200+60ms | Pass |
| | | Non-Occupancy Period | No transmission | 30 minutes | Pass |
| | | Channel Move Time | 0.6412 s | < 10s | Pass |
| 20 | 0 MHz / 5500 MHz | Channel Closing Transmission Time | 3.2 ms | < 200+60ms | Pass |
| | | Non-Occupancy Period | No transmission | 30 minutes | Pass |
| | | Channel Move Time | 0.6082 s | < 10s | Pass |
| 80 | 0 MHz / 5290 MHz | Channel Closing Transmission Time | 3.6 ms | < 200+60ms | Pass |
| | | Non-Occupancy Period | No transmission | 30 minutes | Pass |
| | | Channel Move Time | 0.5456 s | < 10s | Pass |
| 80 | 0 MHz / 5530 MHz | Channel Closing Transmission Time | 4.0 ms | < 200+60ms | Pass |
| | | Non-Occupancy Period | No transmission | 30 minutes | Pass |



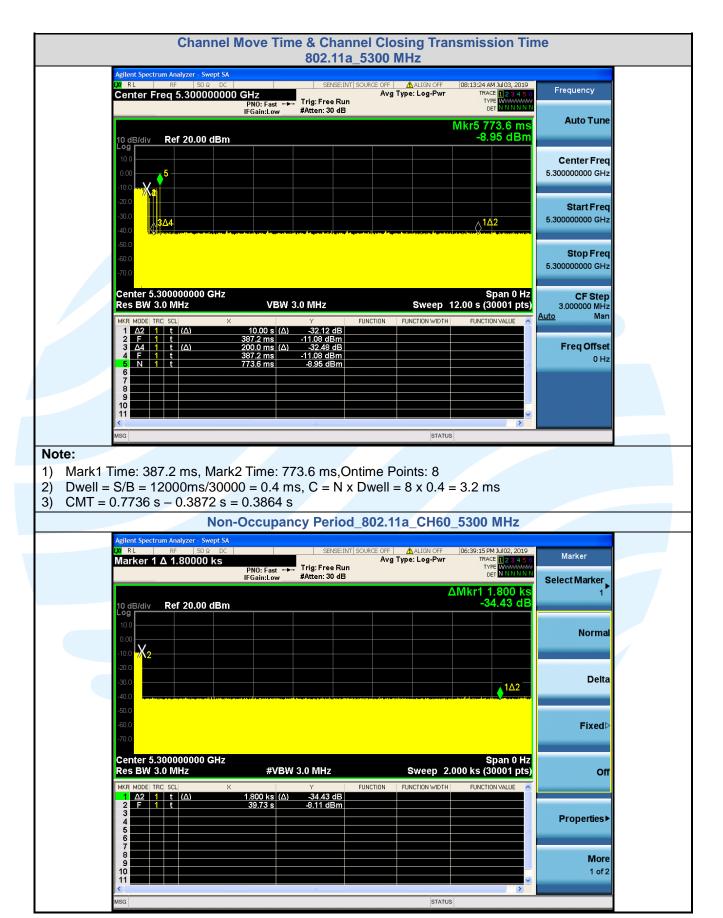
Radar Waveform calibration Plot



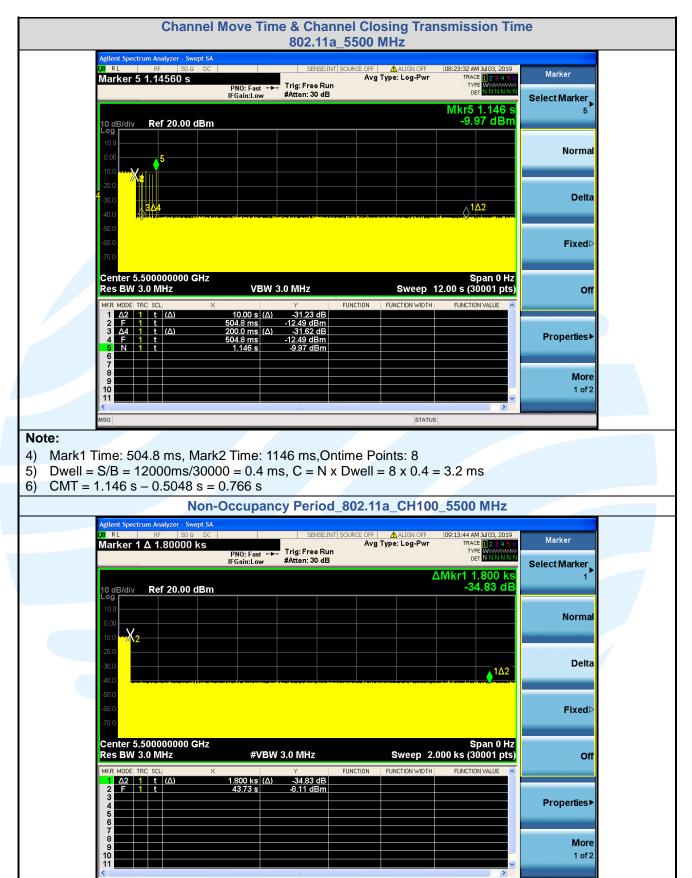




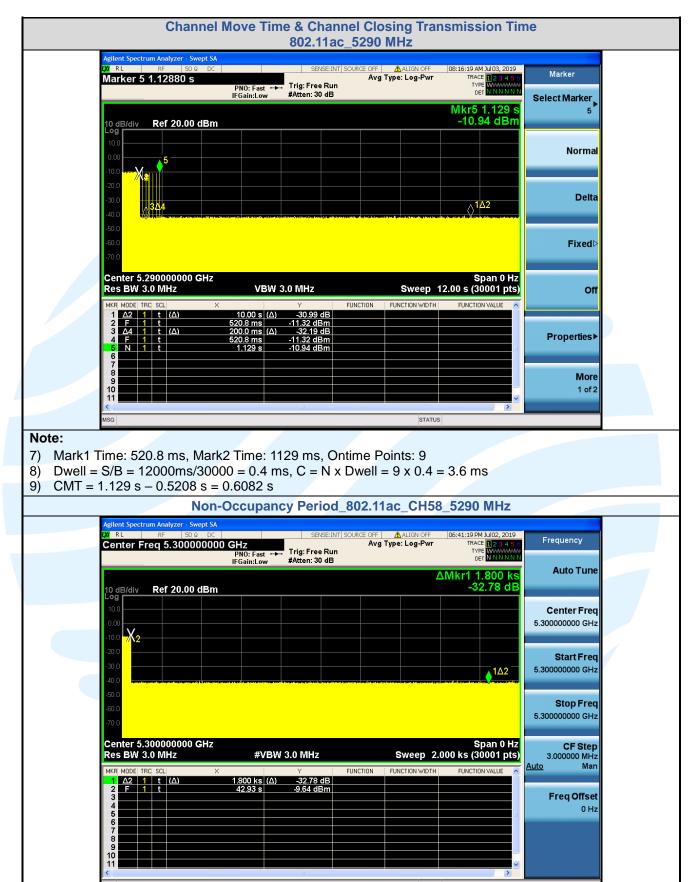




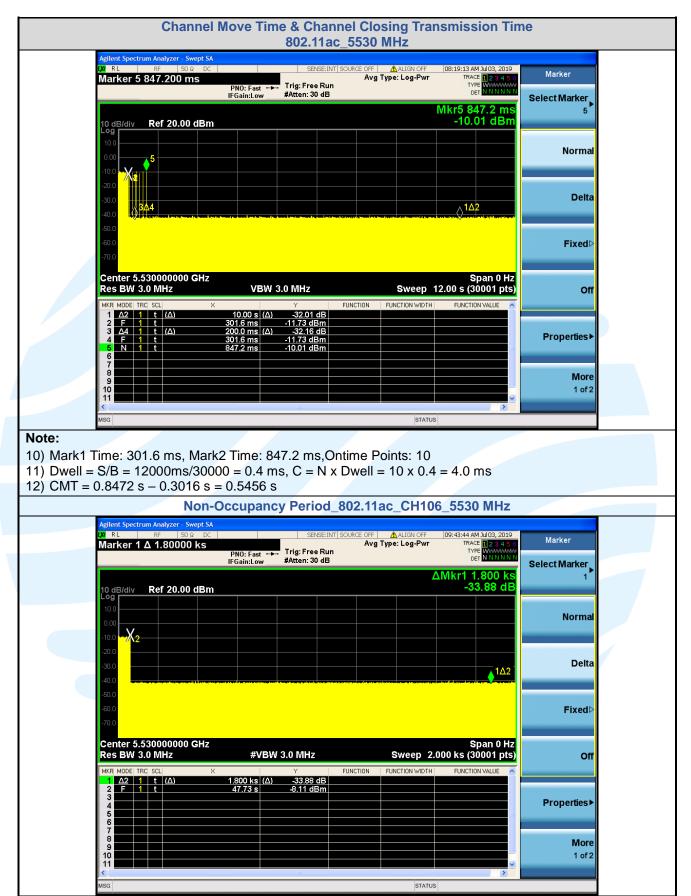














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5.9 AC POWER LINE CONDUCTED EMISSION

FCC 47 CFR Part 15 Subpart E Section 15.407 (b)(6)

Test Requirement: FCC 47 CFR Part 15 Subpart C Section 15.207

RSS-Gen Issue 5, Section 8.8

Test Method: ANSI C63.10-2013, Section 6.2.

Limits:

| Frequency range | Limits (dB(μV) | | |
|-----------------|----------------|----------|--|
| (MHz) | Quasi-peak | Average | |
| 0,15 to 0,50 | 66 to 56 | 56 to 46 | |
| 0,50 to 5 | 56 | 46 | |
| 5 to 30 | 60 | 50 | |

Remark:

1. The lower limit shall apply at the transition frequencies.

2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 to 0.50 MHz.

Test Setup: Refer to section 4.5.2 for details.

Test Procedures:

Test frequency range:150KHz-30MHz

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane,
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Equipment Used: Refer to section 3 for details.

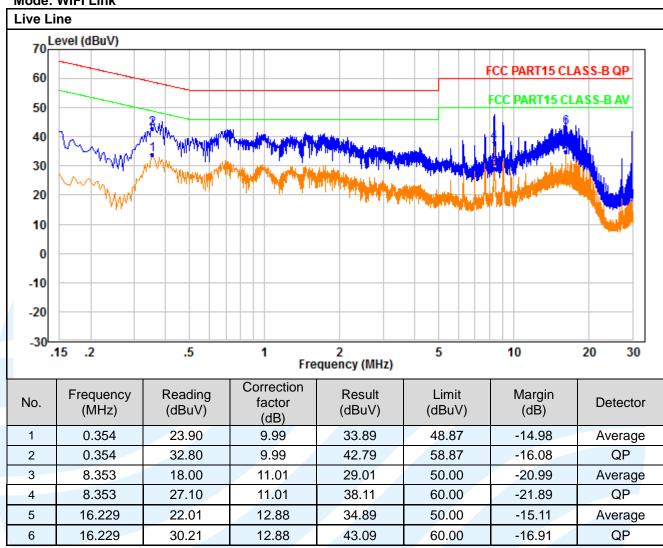
Test Result: Pass



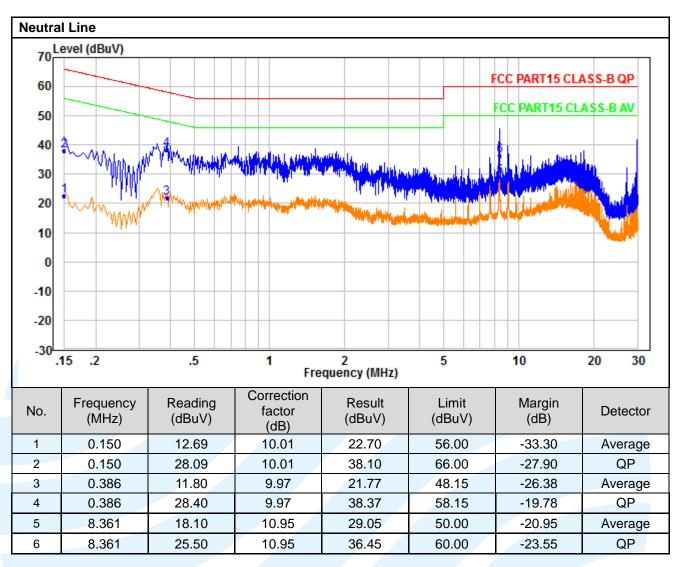
The measurement data as follows:

Quasi Peak and Average:

Mode: WIFI Link







Remark:

- 1. Correct Factor = LISN Factor + Cable Loss + Pulse Limiter Factor, the value was added to Original Receiver Reading by the software automatically.
- 2. Result = Reading + Correct Factor.
- 3. Margin = Result Limit
- 4. An initial pre-scan was performed on the Phase and neutral lines with peak detector. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.
- 5. All possible modes of operation were investigated, and testing at two nominal voltages of 240V/50Hz and 120V/60Hz, only the worst case emissions reported.



APPENDIX 1 PHOTOS OF TEST SETUP

See test photos attached in Appendix 1 for the actual connections between Product and support equipment.

