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### 8.3.1 Applicable Standard

According to FCC Part 15.407(a)(1) for UNII Band I

According to FCC Part 15.407(a)(2) for UNII Band II-A and UNII Band II-C

According to FCC Part 15.407(a)(3) for UNII Band III

According to 789033 D02 Section II(F)

### 8.3.2 Conformance Limit

#### ■ For the band 5.15-5.25 GHz

(a) (1) (i) For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

(a) (1) (ii) For an indoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

(a) (1) (iii) For fixed point-to-point access points operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. Fixed point-to-point U-NII devices may employ antennas with directional gain up to 23 dBi without any corresponding reduction in the maximum conducted output power or maximum power spectral density. For fixed point-to-point transmitters that employ a directional antenna gain greater than 23 dBi, a 1 dB reduction in maximum conducted output power and maximum power spectral density is required for each 1 dB of antenna gain in excess of 23 dBi. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

(a) (1) (iv) For mobile and portable client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### ■ For the 5.25-5.35 GHz and 5.47-5.725 GHz

(b) (2) the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

#### ■ For the band 5.725-5.85 GHz

(a) (3) For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 8.3.3 Test Configuration

Test according to clause 6.1 radio frequency test setup 1.

#### 8.3.4 Test Procedure

Methods refer to FCC KDB 789033.

For devices operating in the bands 5.15-5.25 GHz, 5.25-5.35 GHz, and 5.47-5.725 GHz, the above procedures make use of 1 MHz RBW to satisfy directly the 1 MHz reference bandwidth specified in § 15.407(a)(5). For devices operating in the band 5.725-5.85 GHz, the rules specify a measurement bandwidth of 500 kHz. Many spectrum analyzers do not have 500 kHz RBW, thus a narrower RBW may need to be used. The rules permit the use of a RBWs less than 1 MHz, or 500 kHz, “provided that the measured power is integrated over the full reference bandwidth” to show the total power over the specified measurement bandwidth (i.e., 1 MHz, or 500 kHz). If measurements are performed using a reduced resolution bandwidth (< 1 MHz, or < 500 kHz) and integrated over 1 MHz, or 500 KHz bandwidth, the following adjustments to the procedures apply:

- a) Set RBW  $\geq 1/T$ , where T is defined in section II.B.I.a).
- b) Set VBW  $\geq 3$  RBW.
- c) If measurement bandwidth of Maximum PSD is specified in 500 kHz, add  $10\log(500\text{kHz}/\text{RBW})$  to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
- d) If measurement bandwidth of Maximum PSD is specified in 1 MHz, add  $10\log(1\text{MHz}/\text{RBW})$  to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
- e) Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

Note: As a practical matter, it is recommended to use reduced RBW of 100 KHz for the sections.

5.c) and 5.d) above, since RBW=100 KHZ is available on nearly all spectrum analyzers.

### 8.3.5 Test Results

Temperature : 25°C      ATM Pressure:: 1011 mbar  
 Humidity : 60 %      Test Engineer: GJ

#### Power Density

**For 802.11a, Output Power Limit as below.**

| Frequency [MHz]   | Limit[dBm/MHz] |
|-------------------|----------------|
| 5150~5250MHz Band | 17             |
| 5250~5350MHz Band | 11             |
| 5470~5725MHz Band | 11             |
| 5725~5850MHz Band | 30             |

**For others, Output Power Limit as below.**

| Frequency [MHz]   | Limit[dBm/MHz] |
|-------------------|----------------|
| 5150~5250MHz Band | 13.38          |
| 5250~5350MHz Band | 7.38           |
| 5470~5725MHz Band | 7.38           |
| 5725~5850MHz Band | 26.38          |

| Test Mode | Antenna | Frequency[MHz] | Result [dBm/MHz] | Verdict |
|-----------|---------|----------------|------------------|---------|
| 11A       | Ant1    | 5180           | 3.64             | PASS    |
|           | Ant2    | 5180           | 3.68             | PASS    |
|           | Ant3    | 5180           | 4.00             | PASS    |
|           | Ant1    | 5200           | 3.35             | PASS    |
|           | Ant2    | 5200           | 3.52             | PASS    |
|           | Ant3    | 5200           | 3.83             | PASS    |
|           | Ant1    | 5240           | 3.76             | PASS    |
|           | Ant2    | 5240           | 3.76             | PASS    |
|           | Ant3    | 5240           | 4.30             | PASS    |
|           | Ant1    | 5260           | 4.10             | PASS    |
|           | Ant2    | 5260           | 3.95             | PASS    |
|           | Ant3    | 5260           | 3.88             | PASS    |
|           | Ant1    | 5280           | 3.96             | PASS    |
|           | Ant2    | 5280           | 4.00             | PASS    |
|           | Ant3    | 5280           | 3.67             | PASS    |
|           | Ant1    | 5320           | 3.97             | PASS    |
|           | Ant2    | 5320           | 4.08             | PASS    |
|           | Ant3    | 5320           | 3.69             | PASS    |
|           | Ant1    | 5500           | 4.02             | PASS    |
|           | Ant2    | 5500           | 4.23             | PASS    |
|           | Ant3    | 5500           | 3.96             | PASS    |
|           | Ant1    | 5580           | 4.37             | PASS    |
|           | Ant2    | 5580           | 4.11             | PASS    |
|           | Ant3    | 5580           | 4.72             | PASS    |
|           | Ant1    | 5700           | 3.69             | PASS    |
|           | Ant2    | 5700           | 4.65             | PASS    |
|           | Ant3    | 5700           | 3.78             | PASS    |
|           | Ant1    | 5745           | 0.49             | PASS    |
|           | Ant2    | 5745           | 2.02             | PASS    |
|           | Ant3    | 5745           | 0.67             | PASS    |
|           | Ant1    | 5785           | 0.64             | PASS    |

|           |       |      |       |      |
|-----------|-------|------|-------|------|
|           | Ant2  | 5785 | 2.12  | PASS |
|           | Ant3  | 5785 | 0.37  | PASS |
|           | Ant1  | 5825 | 0.55  | PASS |
|           | Ant2  | 5825 | 1.65  | PASS |
|           | Ant3  | 5825 | 0.14  | PASS |
| 11N20MIMO | Ant1  | 5180 | -0.44 | PASS |
|           | Ant2  | 5180 | -0.78 | PASS |
|           | Ant3  | 5180 | -0.22 | PASS |
|           | total | 5180 | 4.30  | PASS |
|           | Ant1  | 5200 | -0.67 | PASS |
|           | Ant2  | 5200 | -1.10 | PASS |
|           | Ant3  | 5200 | -0.27 | PASS |
|           | total | 5200 | 4.10  | PASS |
|           | Ant1  | 5240 | -0.49 | PASS |
|           | Ant2  | 5240 | -0.95 | PASS |
|           | Ant3  | 5240 | -0.25 | PASS |
|           | total | 5240 | 4.22  | PASS |
|           | Ant1  | 5260 | -0.18 | PASS |
|           | Ant2  | 5260 | -0.92 | PASS |
|           | Ant3  | 5260 | -0.73 | PASS |
|           | total | 5260 | 4.17  | PASS |
|           | Ant1  | 5280 | 0.00  | PASS |
|           | Ant2  | 5280 | -1.13 | PASS |
|           | Ant3  | 5280 | -0.98 | PASS |
|           | total | 5280 | 4.10  | PASS |
|           | Ant1  | 5320 | -0.51 | PASS |
|           | Ant2  | 5320 | -0.85 | PASS |
|           | Ant3  | 5320 | -0.96 | PASS |
|           | total | 5320 | 4.00  | PASS |
|           | Ant1  | 5500 | -0.32 | PASS |
|           | Ant2  | 5500 | -0.99 | PASS |
|           | Ant3  | 5500 | -0.69 | PASS |
|           | total | 5500 | 4.11  | PASS |
|           | Ant1  | 5580 | -0.24 | PASS |
|           | Ant2  | 5580 | -1.14 | PASS |
|           | Ant3  | 5580 | 0.41  | PASS |
|           | total | 5580 | 4.49  | PASS |
|           | Ant1  | 5700 | -0.99 | PASS |
|           | Ant2  | 5700 | -0.33 | PASS |
|           | Ant3  | 5700 | -1.07 | PASS |
|           | total | 5700 | 3.99  | PASS |
|           | Ant1  | 5745 | -4.07 | PASS |
|           | Ant2  | 5745 | -3.22 | PASS |
|           | Ant3  | 5745 | -4.55 | PASS |
|           | total | 5745 | 0.86  | PASS |
|           | Ant1  | 5785 | -3.99 | PASS |
|           | Ant2  | 5785 | -3.37 | PASS |
|           | Ant3  | 5785 | -4.59 | PASS |
|           | total | 5785 | 0.82  | PASS |
|           | Ant1  | 5825 | -4.04 | PASS |
|           | Ant2  | 5825 | -3.57 | PASS |
|           | Ant3  | 5825 | -4.85 | PASS |
|           | total | 5825 | 0.65  | PASS |
| 11N40MIMO | Ant1  | 5190 | -3.15 | PASS |
|           | Ant2  | 5190 | -3.86 | PASS |
|           | Ant3  | 5190 | -2.84 | PASS |
|           | total | 5190 | 1.51  | PASS |
|           | Ant1  | 5230 | -3.07 | PASS |
|           | Ant2  | 5230 | -3.69 | PASS |
|           | Ant3  | 5230 | -2.85 | PASS |
|           | total | 5230 | 1.58  | PASS |
|           | Ant1  | 5270 | -2.95 | PASS |
|           | Ant2  | 5270 | -3.69 | PASS |
|           | Ant3  | 5270 | -3.33 | PASS |
|           | total | 5270 | 1.46  | PASS |
|           | Ant1  | 5310 | -3.07 | PASS |
|           | Ant2  | 5310 | -3.55 | PASS |
|           | Ant3  | 5310 | -3.37 | PASS |

|            |       |      |       |      |
|------------|-------|------|-------|------|
| 11AC20MIMO | total | 5310 | 1.45  | PASS |
|            | Ant1  | 5510 | -3.33 | PASS |
|            | Ant2  | 5510 | -3.51 | PASS |
|            | Ant3  | 5510 | -3.57 | PASS |
|            | total | 5510 | 1.30  | PASS |
|            | Ant1  | 5550 | -3.15 | PASS |
|            | Ant2  | 5550 | -3.80 | PASS |
|            | Ant3  | 5550 | -3.37 | PASS |
|            | total | 5550 | 1.34  | PASS |
|            | Ant1  | 5670 | -3.51 | PASS |
|            | Ant2  | 5670 | -3.12 | PASS |
|            | Ant3  | 5670 | -3.72 | PASS |
|            | total | 5670 | 1.33  | PASS |
|            | Ant1  | 5755 | -6.67 | PASS |
|            | Ant2  | 5755 | -5.97 | PASS |
|            | Ant3  | 5755 | -6.73 | PASS |
|            | total | 5755 | -1.67 | PASS |
|            | Ant1  | 5795 | -6.33 | PASS |
|            | Ant2  | 5795 | -5.91 | PASS |
|            | Ant3  | 5795 | -7.19 | PASS |
|            | total | 5795 | -1.67 | PASS |
|            | Ant1  | 5180 | -0.50 | PASS |
|            | Ant2  | 5180 | -0.82 | PASS |
|            | Ant3  | 5180 | 0.10  | PASS |
|            | total | 5180 | 4.38  | PASS |
|            | Ant1  | 5200 | -0.72 | PASS |
|            | Ant2  | 5200 | -1.06 | PASS |
|            | Ant3  | 5200 | -0.20 | PASS |
|            | total | 5200 | 4.13  | PASS |
|            | Ant1  | 5240 | -0.22 | PASS |
|            | Ant2  | 5240 | -0.81 | PASS |
|            | Ant3  | 5240 | 0.08  | PASS |
|            | total | 5240 | 4.47  | PASS |
|            | Ant1  | 5260 | -0.37 | PASS |
|            | Ant2  | 5260 | -0.68 | PASS |
|            | Ant3  | 5260 | -0.37 | PASS |
|            | total | 5260 | 4.30  | PASS |
|            | Ant1  | 5280 | -0.25 | PASS |
|            | Ant2  | 5280 | -0.87 | PASS |
|            | Ant3  | 5280 | -0.55 | PASS |
|            | total | 5280 | 4.22  | PASS |
|            | Ant1  | 5320 | -0.31 | PASS |
|            | Ant2  | 5320 | -0.87 | PASS |
|            | Ant3  | 5320 | -0.67 | PASS |
|            | total | 5320 | 4.16  | PASS |
|            | Ant1  | 5500 | -0.38 | PASS |
|            | Ant2  | 5500 | -0.86 | PASS |
|            | Ant3  | 5500 | -0.71 | PASS |
|            | total | 5500 | 4.13  | PASS |
|            | Ant1  | 5580 | -0.26 | PASS |
|            | Ant2  | 5580 | -1.08 | PASS |
|            | Ant3  | 5580 | 0.31  | PASS |
|            | total | 5580 | 4.46  | PASS |
|            | Ant1  | 5700 | -0.78 | PASS |
|            | Ant2  | 5700 | -0.09 | PASS |
|            | Ant3  | 5700 | -0.77 | PASS |
|            | total | 5700 | 4.24  | PASS |
|            | Ant1  | 5745 | -3.87 | PASS |
|            | Ant2  | 5745 | -2.92 | PASS |
|            | Ant3  | 5745 | -4.30 | PASS |
|            | total | 5745 | 1.11  | PASS |
|            | Ant1  | 5785 | -3.61 | PASS |
|            | Ant2  | 5785 | -2.69 | PASS |
|            | Ant3  | 5785 | -4.21 | PASS |
|            | total | 5785 | 1.31  | PASS |
|            | Ant1  | 5825 | -3.91 | PASS |
|            | Ant2  | 5825 | -3.12 | PASS |
|            | Ant3  | 5825 | -4.48 | PASS |

|             |       |              |       |      |
|-------------|-------|--------------|-------|------|
|             | total | 5825         | 0.97  | PASS |
| 11AC40MIMO  | Ant1  | 5190         | -3.03 | PASS |
|             | Ant2  | 5190         | -3.54 | PASS |
|             | Ant3  | 5190         | -2.72 | PASS |
|             | total | 5190         | 1.69  | PASS |
|             | Ant1  | 5230         | -2.80 | PASS |
|             | Ant2  | 5230         | -3.27 | PASS |
|             | Ant3  | 5230         | -2.86 | PASS |
|             | total | 5230         | 1.80  | PASS |
|             | Ant1  | 5270         | -3.09 | PASS |
|             | Ant2  | 5270         | -3.24 | PASS |
|             | Ant3  | 5270         | -2.97 | PASS |
|             | total | 5270         | 1.67  | PASS |
|             | Ant1  | 5310         | -2.84 | PASS |
|             | Ant2  | 5310         | -3.12 | PASS |
|             | Ant3  | 5310         | -3.22 | PASS |
|             | total | 5310         | 1.71  | PASS |
|             | Ant1  | 5510         | -2.95 | PASS |
|             | Ant2  | 5510         | -3.56 | PASS |
|             | Ant3  | 5510         | -2.96 | PASS |
|             | total | 5510         | 1.62  | PASS |
|             | Ant1  | 5550         | -2.68 | PASS |
|             | Ant2  | 5550         | -3.38 | PASS |
|             | Ant3  | 5550         | -2.86 | PASS |
|             | total | 5550         | 1.81  | PASS |
|             | Ant1  | 5670         | -2.94 | PASS |
|             | Ant2  | 5670         | -2.76 | PASS |
|             | Ant3  | 5670         | -2.91 | PASS |
|             | total | 5670         | 1.90  | PASS |
|             | Ant1  | 5755         | -6.07 | PASS |
|             | Ant2  | 5755         | -5.51 | PASS |
|             | Ant3  | 5755         | -6.73 | PASS |
|             | total | 5755         | -1.30 | PASS |
| 11AC80MIMO  | Ant1  | 5795         | -6.17 | PASS |
|             | Ant2  | 5795         | -5.59 | PASS |
|             | Ant3  | 5795         | -6.62 | PASS |
|             | total | 5795         | -1.33 | PASS |
|             | Ant1  | 5210         | -5.45 | PASS |
|             | Ant2  | 5210         | -5.59 | PASS |
|             | Ant3  | 5210         | -5.04 | PASS |
|             | total | 5210         | -0.58 | PASS |
|             | Ant1  | 5290         | -5.45 | PASS |
|             | Ant2  | 5290         | -5.99 | PASS |
|             | Ant3  | 5290         | -5.52 | PASS |
|             | total | 5290         | -0.88 | PASS |
|             | Ant1  | 5530         | -5.26 | PASS |
|             | Ant2  | 5530         | -5.72 | PASS |
|             | Ant3  | 5530         | -5.35 | PASS |
|             | total | 5530         | -0.67 | PASS |
|             | Ant1  | 5610         | -5.56 | PASS |
|             | Ant2  | 5610         | -5.79 | PASS |
|             | Ant3  | 5610         | -4.54 | PASS |
|             | total | 5610         | -0.49 | PASS |
|             | Ant1  | 5775         | -7.93 | PASS |
|             | Ant2  | 5775         | -7.36 | PASS |
|             | Ant3  | 5775         | -8.39 | PASS |
|             | total | 5775         | -3.10 | PASS |
| 11AC160MIMO | Ant1  | 5250_UNII-1  | -8.26 | PASS |
|             | Ant2  | 5250_UNII-1  | -9.10 | PASS |
|             | Ant3  | 5250_UNII-1  | -7.99 | PASS |
|             | total | 5250_UNII-1  | -3.65 | PASS |
|             | Ant1  | 5250_UNII-2A | -8.50 | PASS |
|             | Ant2  | 5250_UNII-2A | -8.63 | PASS |
|             | Ant3  | 5250_UNII-2A | -7.80 | PASS |
|             | total | 5250_UNII-2A | -3.52 | PASS |
|             | Ant1  | 5570         | -7.66 | PASS |
|             | Ant2  | 5570         | -8.67 | PASS |
|             | Ant3  | 5570         | -7.89 | PASS |

|            |       |      |       |      |
|------------|-------|------|-------|------|
|            | total | 5570 | -3.28 | PASS |
| 11AX20MIMO | Ant1  | 5180 | -0.50 | PASS |
|            | Ant2  | 5180 | -0.72 | PASS |
|            | Ant3  | 5180 | 0.24  | PASS |
|            | total | 5180 | 4.46  | PASS |
|            | Ant1  | 5200 | -0.57 | PASS |
|            | Ant2  | 5200 | -1.06 | PASS |
|            | Ant3  | 5200 | -0.17 | PASS |
|            | total | 5200 | 4.19  | PASS |
|            | Ant1  | 5240 | -0.12 | PASS |
|            | Ant2  | 5240 | -0.81 | PASS |
|            | Ant3  | 5240 | 0.10  | PASS |
|            | total | 5240 | 4.51  | PASS |
|            | Ant1  | 5260 | 0.09  | PASS |
|            | Ant2  | 5260 | -0.64 | PASS |
|            | Ant3  | 5260 | -0.53 | PASS |
|            | total | 5260 | 4.42  | PASS |
|            | Ant1  | 5280 | -0.25 | PASS |
|            | Ant2  | 5280 | -0.89 | PASS |
|            | Ant3  | 5280 | -0.59 | PASS |
|            | total | 5280 | 4.20  | PASS |
|            | Ant1  | 5320 | -0.36 | PASS |
|            | Ant2  | 5320 | -0.80 | PASS |
|            | Ant3  | 5320 | -0.81 | PASS |
|            | total | 5320 | 4.12  | PASS |
|            | Ant1  | 5500 | -0.22 | PASS |
|            | Ant2  | 5500 | -0.94 | PASS |
|            | Ant3  | 5500 | -0.80 | PASS |
|            | total | 5500 | 4.13  | PASS |
| 11AX40MIMO | Ant1  | 5580 | -0.32 | PASS |
|            | Ant2  | 5580 | -1.06 | PASS |
|            | Ant3  | 5580 | 0.25  | PASS |
|            | total | 5580 | 4.43  | PASS |
|            | Ant1  | 5700 | -0.74 | PASS |
|            | Ant2  | 5700 | -0.41 | PASS |
|            | Ant3  | 5700 | -0.69 | PASS |
|            | total | 5700 | 4.16  | PASS |
|            | Ant1  | 5745 | -3.78 | PASS |
|            | Ant2  | 5745 | -3.42 | PASS |
|            | Ant3  | 5745 | -4.29 | PASS |
|            | total | 5745 | 0.96  | PASS |
|            | Ant1  | 5785 | -3.56 | PASS |
|            | Ant2  | 5785 | -3.13 | PASS |
|            | Ant3  | 5785 | -4.22 | PASS |
|            | total | 5785 | 1.16  | PASS |
|            | Ant1  | 5825 | -3.60 | PASS |
|            | Ant2  | 5825 | -3.51 | PASS |
|            | Ant3  | 5825 | -4.85 | PASS |
|            | total | 5825 | 0.83  | PASS |
|            | Ant1  | 5190 | -3.09 | PASS |
|            | Ant2  | 5190 | -3.58 | PASS |
|            | Ant3  | 5190 | -2.53 | PASS |
|            | total | 5190 | 1.73  | PASS |
|            | Ant1  | 5230 | -2.72 | PASS |
|            | Ant2  | 5230 | -3.44 | PASS |
|            | Ant3  | 5230 | -2.78 | PASS |
|            | total | 5230 | 1.80  | PASS |
|            | Ant1  | 5270 | -2.96 | PASS |
|            | Ant2  | 5270 | -3.45 | PASS |
|            | Ant3  | 5270 | -2.98 | PASS |
|            | total | 5270 | 1.65  | PASS |
|            | Ant1  | 5310 | -3.14 | PASS |
|            | Ant2  | 5310 | -3.32 | PASS |
|            | Ant3  | 5310 | -3.02 | PASS |
|            | total | 5310 | 1.61  | PASS |
|            | Ant1  | 5510 | -3.04 | PASS |
|            | Ant2  | 5510 | -3.36 | PASS |
|            | Ant3  | 5510 | -3.49 | PASS |

|             |       |              |       |      |
|-------------|-------|--------------|-------|------|
|             | total | 5510         | 1.48  | PASS |
|             | Ant1  | 5550         | -2.60 | PASS |
|             | Ant2  | 5550         | -3.62 | PASS |
|             | Ant3  | 5550         | -2.75 | PASS |
|             | total | 5550         | 1.80  | PASS |
|             | Ant1  | 5670         | -3.17 | PASS |
|             | Ant2  | 5670         | -2.71 | PASS |
|             | Ant3  | 5670         | -3.33 | PASS |
|             | total | 5670         | 1.71  | PASS |
|             | Ant1  | 5755         | -6.35 | PASS |
|             | Ant2  | 5755         | -5.82 | PASS |
|             | Ant3  | 5755         | -6.91 | PASS |
|             | total | 5755         | -1.57 | PASS |
|             | Ant1  | 5795         | -6.40 | PASS |
|             | Ant2  | 5795         | -5.36 | PASS |
|             | Ant3  | 5795         | -6.77 | PASS |
|             | total | 5795         | -1.36 | PASS |
| 11AX80MIMO  | Ant1  | 5210         | -5.64 | PASS |
|             | Ant2  | 5210         | -6.04 | PASS |
|             | Ant3  | 5210         | -5.11 | PASS |
|             | total | 5210         | -0.81 | PASS |
|             | Ant1  | 5290         | -5.41 | PASS |
|             | Ant2  | 5290         | -5.98 | PASS |
|             | Ant3  | 5290         | -5.94 | PASS |
|             | total | 5290         | -1.00 | PASS |
|             | Ant1  | 5530         | -5.57 | PASS |
|             | Ant2  | 5530         | -6.22 | PASS |
|             | Ant3  | 5530         | -5.73 | PASS |
|             | total | 5530         | -1.06 | PASS |
|             | Ant1  | 5610         | -5.49 | PASS |
|             | Ant2  | 5610         | -5.96 | PASS |
|             | Ant3  | 5610         | -4.93 | PASS |
|             | total | 5610         | -0.67 | PASS |
|             | Ant1  | 5775         | -8.94 | PASS |
|             | Ant2  | 5775         | -8.08 | PASS |
|             | Ant3  | 5775         | -9.31 | PASS |
|             | total | 5775         | -3.97 | PASS |
| 11AX160MIMO | Ant1  | 5250_UNII-1  | -8.50 | PASS |
|             | Ant2  | 5250_UNII-1  | -8.82 | PASS |
|             | Ant3  | 5250_UNII-1  | -8.73 | PASS |
|             | total | 5250_UNII-1  | -3.91 | PASS |
|             | Ant1  | 5250_UNII-2A | -8.53 | PASS |
|             | Ant2  | 5250_UNII-2A | -8.83 | PASS |
|             | Ant3  | 5250_UNII-2A | -8.23 | PASS |
|             | total | 5250_UNII-2A | -3.75 | PASS |
|             | Ant1  | 5570         | -8.39 | PASS |
|             | Ant2  | 5570         | -8.96 | PASS |
|             | Ant3  | 5570         | -8.80 | PASS |
|             | total | 5570         | -3.94 | PASS |
| 11BE20MIMO  | Ant1  | 5180         | -0.51 | PASS |
|             | Ant2  | 5180         | -1.03 | PASS |
|             | Ant3  | 5180         | -0.51 | PASS |
|             | total | 5180         | 4.09  | PASS |
|             | Ant1  | 5200         | -0.89 | PASS |
|             | Ant2  | 5200         | -1.34 | PASS |
|             | Ant3  | 5200         | -0.64 | PASS |
|             | total | 5200         | 3.82  | PASS |
|             | Ant1  | 5240         | -0.58 | PASS |
|             | Ant2  | 5240         | -1.35 | PASS |
|             | Ant3  | 5240         | -0.64 | PASS |
|             | total | 5240         | 3.93  | PASS |
|             | Ant1  | 5260         | -0.22 | PASS |
|             | Ant2  | 5260         | -1.13 | PASS |
|             | Ant3  | 5260         | -0.81 | PASS |
|             | total | 5260         | 4.07  | PASS |
|             | Ant1  | 5280         | -0.71 | PASS |
|             | Ant2  | 5280         | -1.42 | PASS |
|             | Ant3  | 5280         | -1.22 | PASS |

|            |       |      |       |      |
|------------|-------|------|-------|------|
|            | total | 5280 | 3.66  | PASS |
|            | Ant1  | 5320 | -0.52 | PASS |
|            | Ant2  | 5320 | -1.45 | PASS |
|            | Ant3  | 5320 | -1.20 | PASS |
|            | total | 5320 | 3.73  | PASS |
|            | Ant1  | 5500 | -0.64 | PASS |
|            | Ant2  | 5500 | -1.68 | PASS |
|            | Ant3  | 5500 | -1.41 | PASS |
|            | total | 5500 | 3.55  | PASS |
|            | Ant1  | 5580 | -0.13 | PASS |
|            | Ant2  | 5580 | -1.35 | PASS |
|            | Ant3  | 5580 | -0.26 | PASS |
|            | total | 5580 | 4.22  | PASS |
|            | Ant1  | 5700 | -0.79 | PASS |
|            | Ant2  | 5700 | -0.84 | PASS |
|            | Ant3  | 5700 | -1.25 | PASS |
|            | total | 5700 | 3.82  | PASS |
|            | Ant1  | 5745 | -3.89 | PASS |
|            | Ant2  | 5745 | -3.67 | PASS |
|            | Ant3  | 5745 | -4.87 | PASS |
|            | total | 5745 | 0.66  | PASS |
|            | Ant1  | 5785 | -3.54 | PASS |
|            | Ant2  | 5785 | -3.39 | PASS |
|            | Ant3  | 5785 | -4.89 | PASS |
|            | total | 5785 | 0.88  | PASS |
|            | Ant1  | 5825 | -3.94 | PASS |
|            | Ant2  | 5825 | -3.60 | PASS |
|            | Ant3  | 5825 | -5.01 | PASS |
|            | total | 5825 | 0.63  | PASS |
| 11BE40MIMO | Ant1  | 5190 | -3.14 | PASS |
|            | Ant2  | 5190 | -4.12 | PASS |
|            | Ant3  | 5190 | -3.34 | PASS |
|            | total | 5190 | 1.26  | PASS |
|            | Ant1  | 5230 | -3.22 | PASS |
|            | Ant2  | 5230 | -3.83 | PASS |
|            | Ant3  | 5230 | -3.09 | PASS |
|            | total | 5230 | 1.40  | PASS |
|            | Ant1  | 5270 | -2.76 | PASS |
|            | Ant2  | 5270 | -3.93 | PASS |
|            | Ant3  | 5270 | -3.72 | PASS |
|            | total | 5270 | 1.33  | PASS |
|            | Ant1  | 5310 | -3.36 | PASS |
|            | Ant2  | 5310 | -4.02 | PASS |
|            | Ant3  | 5310 | -3.87 | PASS |
|            | total | 5310 | 1.03  | PASS |
|            | Ant1  | 5510 | -3.32 | PASS |
|            | Ant2  | 5510 | -3.97 | PASS |
|            | Ant3  | 5510 | -4.05 | PASS |
|            | total | 5510 | 1.00  | PASS |
|            | Ant1  | 5550 | -3.03 | PASS |
|            | Ant2  | 5550 | -4.11 | PASS |
|            | Ant3  | 5550 | -3.50 | PASS |
|            | total | 5550 | 1.25  | PASS |
|            | Ant1  | 5670 | -3.37 | PASS |
|            | Ant2  | 5670 | -3.28 | PASS |
|            | Ant3  | 5670 | -3.92 | PASS |
|            | total | 5670 | 1.26  | PASS |
|            | Ant1  | 5755 | -6.76 | PASS |
|            | Ant2  | 5755 | -5.86 | PASS |
|            | Ant3  | 5755 | -7.57 | PASS |
|            | total | 5755 | -1.90 | PASS |
|            | Ant1  | 5795 | -6.35 | PASS |
|            | Ant2  | 5795 | -6.05 | PASS |
|            | Ant3  | 5795 | -7.52 | PASS |
|            | total | 5795 | -1.82 | PASS |
| 11BE80MIMO | Ant1  | 5210 | -6.04 | PASS |
|            | Ant2  | 5210 | -6.84 | PASS |
|            | Ant3  | 5210 | -5.99 | PASS |

|             |       |              |        |      |
|-------------|-------|--------------|--------|------|
|             | total | 5210         | -1.50  | PASS |
|             | Ant1  | 5290         | -5.74  | PASS |
|             | Ant2  | 5290         | -6.39  | PASS |
|             | Ant3  | 5290         | -6.76  | PASS |
|             | total | 5290         | -1.50  | PASS |
|             | Ant1  | 5530         | -5.26  | PASS |
|             | Ant2  | 5530         | -6.85  | PASS |
|             | Ant3  | 5530         | -6.14  | PASS |
|             | total | 5530         | -1.26  | PASS |
|             | Ant1  | 5610         | -5.64  | PASS |
|             | Ant2  | 5610         | -6.87  | PASS |
|             | Ant3  | 5610         | -5.47  | PASS |
|             | total | 5610         | -1.18  | PASS |
|             | Ant1  | 5775         | -9.10  | PASS |
|             | Ant2  | 5775         | -8.74  | PASS |
|             | Ant3  | 5775         | -10.30 | PASS |
|             | total | 5775         | -4.56  | PASS |
| 11BE160MIMO | Ant1  | 5250_UNII-1  | -8.70  | PASS |
|             | Ant2  | 5250_UNII-1  | -9.49  | PASS |
|             | Ant3  | 5250_UNII-1  | -9.08  | PASS |
|             | total | 5250_UNII-1  | -4.31  | PASS |
|             | Ant1  | 5250_UNII-2A | -8.78  | PASS |
|             | Ant2  | 5250_UNII-2A | -9.43  | PASS |
|             | Ant3  | 5250_UNII-2A | -9.07  | PASS |
|             | total | 5250_UNII-2A | -4.31  | PASS |
|             | Ant1  | 5570         | -8.79  | PASS |
|             | Ant2  | 5570         | -9.87  | PASS |
|             | Ant3  | 5570         | -9.22  | PASS |
|             | total | 5570         | -4.50  | PASS |

## Power Density Test Graphs









































































































