



# A Test Lab Techno Corp.

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## MPE Report

|                       |                                                                                                                  |
|-----------------------|------------------------------------------------------------------------------------------------------------------|
| Test Report No.       | : 1509FS16                                                                                                       |
| Applicant             | : Ubiquiti Networks, Inc.                                                                                        |
| Manufacturer          | : Ubiquiti Networks, Inc.                                                                                        |
| Product Type          | : Access Point                                                                                                   |
| Trade Name            | : UBIQUITI                                                                                                       |
| Model Number          | : UAP-AC-LITE                                                                                                    |
| Date of Received      | : Apr. 08, 2015                                                                                                  |
| Test Period           | : May. 29, 2015                                                                                                  |
| Date of Issued        | : Sep. 08, 2015                                                                                                  |
| Test Specification    | : IEEE Std. 1528-2013<br>IEEE Std. 1528a-2005<br>47 CFR § 2.1091<br>47 CFR §1.1310<br>ANSI / IEEE Std.C95.1-1992 |
| Location of Test Lab. | : Chang-an Lab.                                                                                                  |

1. The test operations have to be performed with cautious behavior, the test results are as attached.
2. The test results are under chamber environment of A Test Lab Techno Corp. A Test Lab Techno Corp. does not assume responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples.
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Approved By : Bill Hu  
(Bill Hu)

Tested By : Sky Chou  
(Sky Chou)



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## 1. Description of Equipment under Test (EUT)

|                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant                           | Ubiquiti Networks, Inc.<br>2580 Orchard Parkway, San Jose, California, United States, 95131                                                                                                                                                                                                                                                                                                                                                    |
| Manufacturer                        | Ubiquiti Networks, Inc.<br>2580 Orchard Parkway, San Jose, California, United States, 95131                                                                                                                                                                                                                                                                                                                                                    |
| Product Type                        | Access Point                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Trade Name                          | UBIQUITI                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Model Number                        | UAP-AC-LITE                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| FCC ID                              | SWX-UAPACL                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Class II Permissive Change          | Add U-NII Band II function by software control.<br>The change reference Class II Permissive Change Letter in detail.                                                                                                                                                                                                                                                                                                                           |
| Frequency Range                     | IEEE 802.11a Band II-A : 5260 ~ 5320 MHz<br>IEEE 802.11a Band II-C : 5500 ~ 5700 MHz<br>IEEE 802.11n 5GHz 20MHz Band II-A : 5260 ~ 5320 MHz<br>IEEE 802.11n 5GHz 20MHz Band II-C : 5500 ~ 5700 MHz<br>IEEE 802.11n 5GHz 40MHz Band II-A : 5270 ~ 5310 MHz<br>IEEE 802.11n 5GHz 40MHz Band II-C : 5510 ~ 5670 MHz<br>IEEE 802.11ac 80MHz Band II-A : 5290 MHz<br>IEEE 802.11ac 80MHz Band II-C : 5530 ~ 5610 MHz                                |
| Transmit Power<br>(conducted power) | IEEE 802.11a Band II-A : 0.15 W / 21.69 dBm<br>IEEE 802.11a Band II-C : 0.19 W / 22.88 dBm<br>IEEE 802.11n 5GHz 20MHz Band II-A : 0.15 W / 21.84 dBm<br>IEEE 802.11n 5GHz 20MHz Band II-C : 0.19 W / 22.74 dBm<br>IEEE 802.11n 5GHz 40MHz Band II-A : 0.10 W / 19.88 dBm<br>IEEE 802.11n 5GHz 40MHz Band II-C : 0.13 W / 21.16 dBm<br>IEEE 802.11ac 80MHz Band II-A : 0.09 W / 19.39 dBm<br>IEEE 802.11ac 80MHz Band II-C : 0.12 W / 20.71 dBm |
| Antenna Type                        | Dual band antenna                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Max. Antenna Gain                   | 3 dBi                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Antenna Delivery                    | 2TX + 2RX                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Temperature Range                   | -10 ~ 70 °C                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| RF Evaluation                       | 1.04 W/m <sup>2</sup>                                                                                                                                                                                                                                                                                                                                                                                                                          |

The above equipment was tested by A Test Lab Techno Corp. For compliance with the requirements set forth in 47 CFR § 2.1091 & 47 CFR § 1.1310. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties



## 2. Human Exposure Assessment

Due to the design and installation of this product, it is not possible to conduct SAR evaluation. This is because client either manufactures or supplies the antenna(s) that will be used in the installation of this product. Therefore, this product will be evaluated as a mobile device per 47 CFR §1.1310 titled "Radiofrequency radiation exposure limits", generally referred to as MPE limits.

In 47 CFR § 2.1091, paragraph (b) defines a mobile device as "a transmitting device designed to be used in other than fixed locations and to generally be used in such a way that a separation distance of at least 20 cm is normally maintained between the transmitter's radiating structure(s) and the body of the user or nearby persons." This product is intended to be installed into a vehicle such that the unit is physically secured at one location. In the installation guide supplied with the product,

Client has made the following statement: "IMPORTANT: To meet the FCC's RF Exposure Guidelines, the antenna should be installed so there is at least 20 cm of separation between the body of the user and nearby persons and the antenna". Based on the installation of the transceiver and the antenna, the transmitters radiating structure is more than 20 cm from the user. Thus, this product is a "mobile device" as defined in section § 2.1091 paragraph (b).

Exposure evaluation

$$S = \frac{PG}{4\pi R^2}$$

Where

S: power density

P: power input to the antenna

G: power gain of the antenna in the direction of interest relative to an isotropic radiator.

R: distance to the center of radiation of the antenna.



### 3. RF Output Power

| Freq. Band   | Data Rate | Frequency (MHz) | Average Conducted Power |       |           |       |              |             |
|--------------|-----------|-----------------|-------------------------|-------|-----------|-------|--------------|-------------|
|              |           |                 | Antenna 0               |       | Antenna 1 |       | Antenna 0+1  |             |
|              |           |                 | (dBm)                   | (W)   | (dBm)     | (W)   | (dBm)        | (W)         |
| IEEE 802.11a | 6M        | 5260.0          | 17.59                   | 0.06  | 18.47     | 0.07  | 21.06        | 0.13        |
|              |           | 5280.0          | 17.46                   | 0.06  | 18.90     | 0.08  | 21.25        | 0.13        |
|              |           | 5300.0          | 17.56                   | 0.06  | 18.98     | 0.08  | 21.34        | 0.14        |
|              |           | 5320.0          | 17.95                   | 0.06  | 19.30     | 0.09  | <b>21.69</b> | <b>0.15</b> |
|              |           | 5500.0          | 19.51                   | 0.09  | 19.59     | 0.09  | 22.56        | 0.18        |
|              |           | 5520.0          | 19.42                   | 0.09  | 19.67     | 0.09  | 22.56        | 0.18        |
|              |           | 5540.0          | 19.25                   | 0.08  | 19.74     | 0.09  | 22.51        | 0.18        |
|              |           | 5560.0          | 19.22                   | 0.08  | 19.77     | 0.09  | 22.51        | 0.18        |
|              |           | 5580.0          | 19.55                   | 0.09  | 19.74     | 0.09  | 22.66        | 0.18        |
|              |           | 5600.0          | 19.39                   | 0.09  | 20.30     | 0.11  | <b>22.88</b> | <b>0.19</b> |
|              |           | 5620.0          | 19.34                   | 0.09  | 19.59     | 0.09  | 22.48        | 0.18        |
|              |           | 5640.0          | 19.47                   | 0.09  | 19.14     | 0.08  | 22.32        | 0.17        |
|              |           | 5660.0          | 19.45                   | 0.09  | 19.32     | 0.09  | 22.40        | 0.17        |
|              |           | 5680.0          | 19.68                   | 0.09  | 19.25     | 0.08  | 22.48        | 0.18        |
|              | 5700.0    | 19.66           | 0.09                    | 18.66 | 0.07      | 22.20 | 0.17         |             |
|              | 54M       | 5260.0          | 17.39                   | 0.05  | 18.28     | 0.07  | 20.87        | 0.12        |
|              |           | 5280.0          | 17.11                   | 0.05  | 18.77     | 0.08  | 21.03        | 0.13        |
|              |           | 5300.0          | 17.43                   | 0.06  | 18.74     | 0.07  | 21.14        | 0.13        |
|              |           | 5320.0          | 17.64                   | 0.06  | 19.03     | 0.08  | 21.40        | 0.14        |
|              |           | 5500.0          | 19.11                   | 0.08  | 19.26     | 0.08  | 22.20        | 0.17        |
|              |           | 5520.0          | 19.02                   | 0.08  | 19.55     | 0.09  | 22.30        | 0.17        |
|              |           | 5540.0          | 19.10                   | 0.08  | 19.63     | 0.09  | 22.38        | 0.17        |
|              |           | 5560.0          | 18.83                   | 0.08  | 19.72     | 0.09  | 22.31        | 0.17        |
|              |           | 5580.0          | 19.38                   | 0.09  | 19.71     | 0.09  | 22.56        | 0.18        |
|              |           | 5600.0          | 19.14                   | 0.08  | 20.05     | 0.10  | 22.63        | 0.18        |
|              |           | 5620.0          | 19.23                   | 0.08  | 19.43     | 0.09  | 22.34        | 0.17        |
|              |           | 5640.0          | 19.34                   | 0.09  | 18.75     | 0.07  | 22.07        | 0.16        |
|              |           | 5660.0          | 19.25                   | 0.08  | 18.98     | 0.08  | 22.13        | 0.16        |
| 5680.0       |           | 19.59           | 0.09                    | 19.02 | 0.08      | 22.32 | 0.17         |             |
| 5700.0       | 19.62     | 0.09            | 18.44                   | 0.07  | 22.08     | 0.16  |              |             |



| Freq. Band                 | Data Rate | Frequency (MHz) | Average Conducted Power |       |           |       |              |             |
|----------------------------|-----------|-----------------|-------------------------|-------|-----------|-------|--------------|-------------|
|                            |           |                 | Antenna 0               |       | Antenna 1 |       | Antenna 0+1  |             |
|                            |           |                 | (dBm)                   | (W)   | (dBm)     | (W)   | (dBm)        | (W)         |
| IEEE 802.11n 5GHz<br>20MHz | 13M       | 5260.0          | 17.76                   | 0.06  | 18.51     | 0.07  | 21.16        | 0.13        |
|                            |           | 5280.0          | 17.88                   | 0.06  | 18.85     | 0.08  | 21.40        | 0.14        |
|                            |           | 5300.0          | 18.00                   | 0.06  | 18.95     | 0.08  | 21.51        | 0.14        |
|                            |           | 5320.0          | 18.31                   | 0.07  | 19.30     | 0.09  | <b>21.84</b> | <b>0.15</b> |
|                            |           | 5500.0          | 19.54                   | 0.09  | 19.67     | 0.09  | 22.62        | 0.18        |
|                            |           | 5520.0          | 19.52                   | 0.09  | 19.89     | 0.10  | 22.72        | 0.19        |
|                            |           | 5540.0          | 19.41                   | 0.09  | 20.02     | 0.10  | <b>22.74</b> | <b>0.19</b> |
|                            |           | 5560.0          | 19.33                   | 0.09  | 20.06     | 0.10  | 22.72        | 0.19        |
|                            |           | 5580.0          | 19.43                   | 0.09  | 19.90     | 0.10  | 22.68        | 0.19        |
|                            |           | 5600.0          | 19.39                   | 0.09  | 19.80     | 0.10  | 22.61        | 0.18        |
|                            |           | 5620.0          | 19.33                   | 0.09  | 19.62     | 0.09  | 22.49        | 0.18        |
|                            |           | 5640.0          | 19.53                   | 0.09  | 19.28     | 0.08  | 22.42        | 0.17        |
|                            |           | 5660.0          | 19.43                   | 0.09  | 19.05     | 0.08  | 22.25        | 0.17        |
|                            |           | 5680.0          | 19.63                   | 0.09  | 19.38     | 0.09  | 22.52        | 0.18        |
|                            | 5700.0    | 19.62           | 0.09                    | 18.71 | 0.07      | 22.20 | 0.17         |             |
|                            | 130M      | 5260.0          | 17.71                   | 0.06  | 18.34     | 0.07  | 21.05        | 0.13        |
|                            |           | 5280.0          | 17.66                   | 0.06  | 18.62     | 0.07  | 21.18        | 0.13        |
|                            |           | 5300.0          | 17.92                   | 0.06  | 18.71     | 0.07  | 21.34        | 0.14        |
|                            |           | 5320.0          | 18.18                   | 0.07  | 18.85     | 0.08  | 21.54        | 0.14        |
|                            |           | 5500.0          | 18.96                   | 0.08  | 19.44     | 0.09  | 22.22        | 0.17        |
|                            |           | 5520.0          | 19.22                   | 0.08  | 19.71     | 0.09  | 22.48        | 0.18        |
|                            |           | 5540.0          | 19.04                   | 0.08  | 19.85     | 0.10  | 22.47        | 0.18        |
|                            |           | 5560.0          | 18.95                   | 0.08  | 20.03     | 0.10  | 22.53        | 0.18        |
|                            |           | 5580.0          | 19.26                   | 0.08  | 19.68     | 0.09  | 22.49        | 0.18        |
|                            |           | 5600.0          | 19.08                   | 0.08  | 19.71     | 0.09  | 22.42        | 0.17        |
|                            |           | 5620.0          | 18.99                   | 0.08  | 19.43     | 0.09  | 22.23        | 0.17        |
|                            |           | 5640.0          | 19.48                   | 0.09  | 19.12     | 0.08  | 22.31        | 0.17        |
|                            |           | 5660.0          | 19.22                   | 0.08  | 18.92     | 0.08  | 22.08        | 0.16        |
| 5680.0                     |           | 19.47           | 0.09                    | 19.29 | 0.08      | 22.39 | 0.17         |             |
| 5700.0                     | 19.51     | 0.09            | 18.66                   | 0.07  | 22.12     | 0.16  |              |             |



| Freq. Band                 | Data Rate | Frequency (MHz) | Average Conducted Power |      |           |      |              |             |
|----------------------------|-----------|-----------------|-------------------------|------|-----------|------|--------------|-------------|
|                            |           |                 | Antenna 0               |      | Antenna 1 |      | Antenna 0+1  |             |
|                            |           |                 | (dBm)                   | (W)  | (dBm)     | (W)  | (dBm)        | (W)         |
| IEEE 802.11n 5GHz<br>40MHz | 27M       | 5270.0          | 16.18                   | 0.04 | 17.01     | 0.05 | 19.63        | 0.09        |
|                            |           | 5310.0          | 16.20                   | 0.04 | 17.45     | 0.06 | <b>19.88</b> | <b>0.10</b> |
|                            |           | 5510.0          | 18.11                   | 0.06 | 18.17     | 0.07 | 21.15        | 0.13        |
|                            |           | 5550.0          | 17.91                   | 0.06 | 18.38     | 0.07 | <b>21.16</b> | <b>0.13</b> |
|                            |           | 5590.0          | 17.78                   | 0.06 | 18.17     | 0.07 | 20.99        | 0.13        |
|                            |           | 5630.0          | 17.81                   | 0.06 | 17.87     | 0.06 | 20.85        | 0.12        |
|                            |           | 5670.0          | 17.95                   | 0.06 | 17.46     | 0.06 | 20.72        | 0.12        |
|                            | 270M      | 5270.0          | 16.11                   | 0.04 | 16.63     | 0.05 | 19.39        | 0.09        |
|                            |           | 5310.0          | 15.85                   | 0.04 | 17.32     | 0.05 | 19.66        | 0.09        |
|                            |           | 5510.0          | 17.99                   | 0.06 | 17.97     | 0.06 | 20.99        | 0.13        |
|                            |           | 5550.0          | 17.77                   | 0.06 | 18.03     | 0.06 | 20.91        | 0.12        |
|                            |           | 5590.0          | 17.66                   | 0.06 | 17.88     | 0.06 | 20.78        | 0.12        |
|                            |           | 5630.0          | 17.75                   | 0.06 | 17.61     | 0.06 | 20.69        | 0.12        |
|                            |           | 5670.0          | 17.92                   | 0.06 | 17.37     | 0.05 | 20.66        | 0.12        |

| Freq. Band             | Data Rate | Frequency (MHz) | Average Conducted Power |      |           |      |              |             |
|------------------------|-----------|-----------------|-------------------------|------|-----------|------|--------------|-------------|
|                        |           |                 | Antenna 0               |      | Antenna 1 |      | Antenna 0+1  |             |
|                        |           |                 | (dBm)                   | (W)  | (dBm)     | (W)  | (dBm)        | (W)         |
| IEEE 802.11ac<br>80MHz | 58.6M     | 5290.0          | 15.83                   | 0.04 | 16.87     | 0.05 | <b>19.39</b> | <b>0.09</b> |
|                        |           | 5530.0          | 17.53                   | 0.06 | 17.86     | 0.06 | <b>20.71</b> | <b>0.12</b> |
|                        |           | 5610.0          | 17.42                   | 0.06 | 17.60     | 0.06 | 20.52        | 0.11        |
|                        | 780M      | 5290.0          | 15.75                   | 0.04 | 16.67     | 0.05 | 19.24        | 0.08        |
|                        |           | 5530.0          | 16.83                   | 0.05 | 17.51     | 0.06 | 20.19        | 0.10        |
|                        |           | 5610.0          | 16.69                   | 0.05 | 17.58     | 0.06 | 20.17        | 0.10        |



#### 4. Test Result

| Freq. Band                     | Data Rate | Frequency (MHz) | Limit (mw/cm <sup>2</sup> ) | Distance (cm) [R] | Max Tune-up power (dBm) [P] | ANT Gain (dBi) | Numeric Gain [G] (dBi) | Duty Cycle | [P] x [G] With Duty Cycle (mW) [TP] | Power Density [S] (mw/cm <sup>2</sup> ) |
|--------------------------------|-----------|-----------------|-----------------------------|-------------------|-----------------------------|----------------|------------------------|------------|-------------------------------------|-----------------------------------------|
| IEEE 802.11a (MIMO)            | 6M        | 5260.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5280.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5300.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5320.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5500.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5520.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5540.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5560.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5580.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5600.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5620.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5640.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5660.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5680.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
| 5700.0                         | 1.000     | 20              | 23                          | 3                 | 2                           | 1              | 399.05                 | 0.079      |                                     |                                         |
| IEEE 802.11n 5GHz 20MHz (MIMO) | 13M       | 5260.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5280.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5300.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5320.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5500.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5520.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5540.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5560.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5580.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5600.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5620.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5640.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5660.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
|                                |           | 5680.0          | 1.000                       | 20                | 23                          | 3              | 2                      | 1          | 399.05                              | 0.079                                   |
| 5700.0                         | 1.000     | 20              | 23                          | 3                 | 2                           | 1              | 399.05                 | 0.079      |                                     |                                         |

Note: The Numeric Gain calculated by  $10^{(\text{ant. Gain(dBi)} / 10)}$ .





| Freq. Band                           | Data Rate | Frequency (MHz) | Limit (mw/cm <sup>2</sup> ) | Distance (cm) [R] | Max Tune-up power (dBm) [P] | ANT Gain (dBi) | Numeric Gain [G] (dBi) | Duty Cycle | [P] x [G] With Duty Cycle (mW) [TP] | Power Density [S] (mw/cm <sup>2</sup> ) |
|--------------------------------------|-----------|-----------------|-----------------------------|-------------------|-----------------------------|----------------|------------------------|------------|-------------------------------------|-----------------------------------------|
| IEEE 802.11n<br>5GHz 40MHz<br>(MIMO) | 27M       | 5270.0          | 1.000                       | 20                | 21.5                        | 3              | 2                      | 1          | 282.51                              | 0.056                                   |
|                                      |           | 5310.0          | 1.000                       | 20                | 21.5                        | 3              | 2                      | 1          | 282.51                              | 0.056                                   |
|                                      |           | 5510.0          | 1.000                       | 20                | 21.5                        | 3              | 2                      | 1          | 282.51                              | 0.056                                   |
|                                      |           | 5550.0          | 1.000                       | 20                | 21.5                        | 3              | 2                      | 1          | 282.51                              | 0.056                                   |
|                                      |           | 5590.0          | 1.000                       | 20                | 21.5                        | 3              | 2                      | 1          | 282.51                              | 0.056                                   |
|                                      |           | 5630.0          | 1.000                       | 20                | 21.5                        | 3              | 2                      | 1          | 282.51                              | 0.056                                   |
|                                      |           | 5670.0          | 1.000                       | 20                | 21.5                        | 3              | 2                      | 1          | 282.51                              | 0.056                                   |
| IEEE 802.11ac<br>80MHz<br>(MIMO)     | 58.6M     | 5290.0          | 1.000                       | 20                | 21                          | 3              | 2                      | 1          | 251.79                              | 0.050                                   |
|                                      |           | 5530.0          | 1.000                       | 20                | 21                          | 3              | 2                      | 1          | 251.79                              | 0.050                                   |
|                                      |           | 5610.0          | 1.000                       | 20                | 21                          | 3              | 2                      | 1          | 251.79                              | 0.050                                   |

Note: The Numeric Gain calculated by  $10^{(\text{ant. Gain(dBi)} / 10)}$ .

**Simultaneous Transmitting:**

Simultaneous MPE = 2.4GHz MPE (Original) + 5GHz MPE (U-NII Band II) = 0.023+0.079 = 0.104  
mw/cm<sup>2</sup>