



## MPE ESTIMATION

FCC ID: 2BKRJ-SHB01

### 1. Limit for General Population/Uncontrolled Exposures

FCC Standard: FCC Rules and Regulations Part 15 Subpart C Section 15.247

ANSI C63.10: 2013, FCC part 2.1091

| Frequency     | Power Density(mW/cm2) | Averaging Time(minutes) |
|---------------|-----------------------|-------------------------|
| 300MHz-1.5GHz | F/1500                | 30                      |
| 1.5GHz-100GHz | 1.0                   | 30                      |

Note: F= Frequency in MHz

### 2. Estimation Result

#### 2.4G WIFI:

##### ANT 1:

| Mode     | AV Output Power(dBm) | Tune Up Power(dBm) | Tune Up Power(mW) | Antenna Gain(dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | Power Density (mW/cm <sup>2</sup> ) Limit | Result |
|----------|----------------------|--------------------|-------------------|-------------------|-----------------------|---------------------------|-------------------------------------------|--------|
| 11b      | 16.74                | 17±1(18)           | 63.096            | 4.04              | 2.5351                | 0.031838                  | 1.0                                       | PASS   |
| 11g      | 12.18                | 12±1(13)           | 19.953            | 4.04              | 2.5351                | 0.010068                  | 1.0                                       | PASS   |
| 11n/HT20 | 12.15                | 12±1(13)           | 19.953            | 4.04              | 2.5351                | 0.010068                  | 1.0                                       | PASS   |

$$Pd = \frac{P_{out} * G}{4\pi r^2}$$

Note:

Note: The estimation distance is 20cm.

Note: AV Output power=conducted power.

Conducted power see the test report UNIA24082715ER-61, antenna gain=4.06dBi.

## ANT 2:

| Mode     | AV Output Power(dBm) | Tune Up Power(dBm) | Tune Up Power(mW) | Antenna Gain(dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) | Power Density (mW/cm <sup>2</sup> ) Limit | Result |
|----------|----------------------|--------------------|-------------------|-------------------|-----------------------|---------------------------|-------------------------------------------|--------|
| 11b      | 16.82                | 17±1(18)           | 63.096            | 4.04              | 2.5351                | 0.031838                  | 1.0                                       | PASS   |
| 11g      | 12.49                | 12±1(13)           | 19.953            | 4.04              | 2.5351                | 0.010068                  | 1.0                                       | PASS   |
| 11n/HT20 | 11.46                | 11±1(12)           | 15.849            | 4.04              | 2.5351                | 0.007997                  | 1.0                                       | PASS   |

$$Pd = \frac{P_{out} * G}{4\pi r^2}$$

Note:

Note: The estimation distance is 20cm.

Note: AV Output power=conducted power.

Conducted power see the test report UNIA24082715ER-61, antenna gain=2.63dBi.

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