

## MPE Estimation

FCC ID: **2BDKI-RN-D40**

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

| Frequency        | Power density (mW/ cm <sup>2</sup> ) | Averaging time(minutes) |
|------------------|--------------------------------------|-------------------------|
| 300MHz----1.5GHz | F/1500                               | 30                      |
| 1.5GHz---100GHz  | 1.0                                  | 30                      |

## 2, Estimation Result

For 2.4G WIFI:

| Mode   | Max PK Output power(dBm) | Tune Up Power(dBm) | Max Tune Up power(mW) | Antenna Gain(dBi) | Antenna Gain (linear) | MPE (mW/cm <sup>2</sup> ) |
|--|--------------------------|--------------------|-----------------------|-------------------|-----------------------|---------------------------|
| 2.4G WIFI  | 13.86                    | 13±1(14)           | 25.12                 | -1.59             | 0.69                  | 0.00347                   |
| $Pd = \frac{Pout * G}{4\pi r^2} :$   |                          |                    |                       |                   |                       |                           |
| Note:  |                          |                    |                       |                   |                       |                           |
| Note: The estimation distance is 20cm  |                          |                    |                       |                   |                       |                           |
| Note: PK Output power= conducted power.  |                          |                    |                       |                   |                       |                           |
| Conducted power see the test report <b>HK2310074516-E</b> , antenna gain=-1.59dBi. |                          |                    |                       |                   |                       |                           |

when the minimum test separation distance is >20 cm, a distance of 20 cm is applied to determine RF Exposure test exclusion. The test exclusion threshold is 0.00347 which is < 1.0, RF Exposure testing is not required.

-----The End-----