



# MPE ESTIMATION

FCC ID: 2AQNR-SWD-009WF

## 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                      |

Note: F= Frequency in MHz

## 2, Estimation Result

| Mode                                                                          | Max PK Output power(dBm) | Tune Up Power(dBm) | Max Tune Up power(mW) | Antenna Gain(dBi) | Antenna Gain (numerical) | MPE (mW/cm <sup>2</sup> ) |
|-------------------------------------------------------------------------------|--------------------------|--------------------|-----------------------|-------------------|--------------------------|---------------------------|
| 2.4GWIFI                                                                      | 16.09                    | 15.5±1(16.5)       | 44.67                 | 1                 | 1.26                     | 0.01119                   |
| $Pd = \frac{Pout * G}{4\pi r^2};$                                             |                          |                    |                       |                   |                          |                           |
| Note:                                                                         |                          |                    |                       |                   |                          |                           |
| Note: The estimation distance is 20cm                                         |                          |                    |                       |                   |                          |                           |
| Note:                                                                         |                          |                    |                       |                   |                          |                           |
| PK Output power= conducted power.                                             |                          |                    |                       |                   |                          |                           |
| Conducted power see the test report <b>HK2203090984-E</b> , antenna gain=1dBi |                          |                    |                       |                   |                          |                           |

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 0.01119mW/cm<sup>2</sup> which is < 1.0mW/cm<sup>2</sup>, RF Exposure testing is not required.

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