



# MPE ESTIMATION

FCC ID: 2A5YK-EZONE-CTDA09

## 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 | 18.58                    | 18±1(19)           | 79.43                 | 1                 | 1.26                     | 0.0199                    |
| EDR      | 10.28                    | 10±1(11)           | 12.59                 | 0                 | 1                        | 0.00251                   |

$$Pd = \frac{Pout * G}{4\pi r^2} ;$$

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2203030880-1E/2E**,

WIFI antenna gain=1dBi

BT antenna gain=0dBi

WiFi and BT Simultaneous evaluation

$$0.0199+0.00251=0.02241<1$$

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 0.02241mW/cm<sup>2</sup> which is < 1.0mW/cm<sup>2</sup>, RF Exposure testing is not required.

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