



# MPE ESTIMATION

FCC ID: 2AVGR-DHP511

1, Per FCC Part 2.1091 Radiofrequency radiation exposure evaluation: mobile devices, the 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      | Frequency (MHz) | 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> ) |
|-----------|-----------------|--------------------------|--------------------|-----------------------|-------------------|-----------------------|---------------------------|
| EDR       | 2402            | -5.32                    | -5±1(-4)           | 0.40                  | -7.13             | 0.1936                | 0.000015                  |
| 2.4G WIFI | 2412            | 14.87                    | 14±1(15)           | 31.62                 | -7.91             | 0.1618                | 0.001018                  |
| 5.2G WIFI | 5210            | 12.54                    | 12±1(13)           | 19.95                 | -0.02             | 0.9954                | 0.003950                  |
| 5.8G WIFI | 5745            | 11.24                    | 11±1(12)           | 15.85                 | -1.6              | 0.6918                | 0.002181                  |

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report **HK2310074547-1E/2E/3E/4E** , antenna gain=-7.13dBi(EDR), -7.91dBi(2.4G WIFI), -0.02dBi(5.2G WIFI), -1.6dBi(5.8G WIFI)

The device could not transmit simultaneously in 2.4G and 5G.

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 0.003950 mW/cm<sup>2</sup> which is < 1.0mW/cm<sup>2</sup>, RF Exposure testing is not required.

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