

MPE ESTIMATION

FCC ID: **2AJNG-AMP200**

1, Limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/ cm ²)	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 ²)
BT	-2.013	-3±1(-2)	0.63	0	1	0.00013
2.4GWIFI	24.26	24±1(25)	316.23	0	1	0.06294
5.2GWIFI	14.05	14±1(15)	31.62	0	1	0.00629
5.8GWIFI	11.17	11±1(12)	15.85	0	1	0.00315

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

Note:

Note: The estimation distance is 20cm

The device could not transmit simultaneously in BT and WIFI.

Note: PK Output power= conducted power.

Conducted power see the test report

HK2010142898-1E/HK2010142898-2E/HK2010142898-3E/HK2010142898-4E.

Gantenna gain=0dBi

simultaneously MPE

BT MPE (max)= 0.00013 (mW/cm²)

2.4G WIFI MPE (max)= 0.06294 (mW/cm²)

5G WIFI MPE (max)= 0.00629 (mW/cm²)

simultaneously MPE=0.06294+0.00629=0.06923(mW/cm²)

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 0.06923mW/cm² which is < 1.0mW/cm², RF Exposure testing is not required.

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