

MPE ESTIMATION

FCC ID: **2ALU5G230TX**

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 /5GWIFI:

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)
2.4G WIFI Ant 1	15.20	15±1(16)	39.81	2.45	1.76	0.01393
2.4G WIFI Ant 2	16.38	16±1(17)	50.12	2.45	1.76	0.01754
MIMO	/	/	/	/	/	0.03147
5.2G WIFI Ant 1	13.22	13±1(14)	25.12	2.85	1.93	0.00964
5.2G WIFI Ant 2	14.31	14±1(15)	31.62	2.85	1.93	0.01213
MIMO	/	/	/	/	/	0.02177
5.8G WIFI Ant 1	13.27	13±1(14)	25.12	2.85	1.93	0.00964
5.8G WIFI Ant 2	12.54	12±1(13)	19.95	2.85	1.93	0.00766
MIMO	/	/	/	/	/	0.01729
$Pd = \frac{P_{out} * G}{4\pi r^2};$						
Note:						
Note: The estimation distance is 20cm						
Note: PK Output power= conducted power. Conducted power see the test report HK2203291300-1E/2E/3E , 2.4G antenna gain=2.45dBi. 5G antenna gain=2.85dBi.						

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 0.03147 mW/cm² which is < 1.0mW/cm², RF Exposure testing is not required.

Note: the device could not transmit simultaneously in 2.4G and 5G.

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