



MPE ESTIMATION

FCC ID: 2AVWB-AX1800PRO

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

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 ²)
2.4G WiFi Ant. 1	2412	17.79	17±1(18)	63.10	4.2	2.6303	0.03301
2.4G WiFi Ant. 2	2412	18.70	18±1(19)	79.43	4.2	2.6303	0.04156
MIMO	/	/	/	/	/	/	0.07457
5.2G WiFi Ant. 1	5190	9.99	9±1(10)	7.94	4.5	2.8184	0.00445
5.2G WiFi Ant. 2	5190	9.97	10±1(11)	10.00	4.5	2.8184	0.00561
MIMO	/	/	/	/	/	/	0.01006
5.8G WiFi Ant. 1	5775	9.79	9±1(10)	7.94	4.5	2.8184	0.00445
5.8G WiFi Ant. 2	5775	9.59	10±1(11)	10.00	4.5	2.8184	0.00561
MIMO	/	/	/	/	/	/	0.01006

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report **HK2105101409-1E/2E/3E**, antenna gain=4.2dBi(2.4G WIFI),4.5dBi(5.2GWIFI/5.8GWIFI)

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 0.07457 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-----