

MPE ESTIMATION

FCC ID: 2ADFS-OMNI-R-2

1, According to §1.1310, 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 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)
5.2G WIFI ANT.1	8.03	8±1(9)	7.94	3.55	2.26	0.00358
5.2G WIFI ANT.2	8.28	8±1(9)	7.94	3.55	2.26	0.00358
MIMO	/	/	/	/	/	0.00716
5.8G WIFI ANT.1	7.88	7±1(8)	6.31	3.55	2.26	0.00284
5.8G WIFI ANT.2	8.36	8±1(9)	7.94	3.55	2.26	0.00358
MIMO	/	/	/	/	/	0.00642

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power in mW.

G=power gain of the antenna in the direction of interest relative to an isotropic radiator

R=distance to the center of radiation of the antenna in cm

Conducted power see the test report HK2503201362-1E/2E

5.2G antenna gain=3.55dBi.

5.8G antenna gain=3.55dBi.

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 0.00716 which is < 1.0, RF Exposure testing is not required.

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