



# MPE ESTIMATION

FCC ID: 2ADFS-MATE2-R-1

## 1, 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

	Frequency (MHz)	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (numerical)	MPE (mW/cm <sup>2</sup> )
5.2G WIFI	5190	11.95	11 ± 1	15.849	1.64	1.46	0.00460
	$Pd = \frac{P_{out} * G}{4\pi r^2} ;$						
	Note:						
	Note: The estimation distance is 20cm						
	Note:						
	PK Output power= conducted power.						
	Conducted power see the test report <b>HK2304181514-E</b> , antenna gain= 1.64dBi						

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 0.00460mW/cm<sup>2</sup> which is < 1.0mW/cm<sup>2</sup>, RF Exposure testing is not required.

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