

MPE ESTIMATION  
 FCC ID: 2AR7K-FWT-200

**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**

**For 5.8G WIFI ANT1:**

Mode	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm <sup>2</sup> )
11a	15.77	15±1(16)	39.81	1	1.2589	0.00998
$Pd = \frac{P_{out} * G}{4\pi r^2} :$						
Note:						
Note: The estimation distance is 20cm						
Note: PK Output power= conducted power. Conducted power see the test report HK1812061880-E, antenna gain=1dBi.						

Mode	CH	PK Output power(dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm <sup>2</sup> )
11a	CH149	15.77	37.76	1	1.2589	0.00946
	CH157	15.08	32.21	1	1.2589	0.00807
	CH165	15.55	35.89	1	1.2589	0.00899
$Pd = \frac{P_{out} * G}{4\pi r^2} :$						
Note:						
Note: The estimation distance is 20cm						
Note: PK Output power= conducted power. Conducted power see the test report HK1812061880-E, antenna gain=1dBi.						

**For 5.8G WIFI ANT2:**

Mode	Max PK Output power(dBm)	Tune Up Power(dBm)	Max Tune Up power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm <sup>2</sup> )
11a	15.46	15±1(17)	39.81	1	1.2589	0.00998
$Pd = \frac{P_{out} * G}{4\pi r^2};$						
Note:						
Note: The estimation distance is 20cm						
Note: PK Output power= conducted power. Conducted power see the test report HK1812061880-E, antenna gain=1dBi.						

Mode	CH	PK Output power(dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm <sup>2</sup> )
11a	CH149	15.46	35.16	1	1.2589	0.00881
	CH157	15.64	36.64	1	1.2589	0.00918
	CH165	15.32	34.04	1	1.2589	0.00853
$Pd = \frac{P_{out} * G}{4\pi r^2};$						
Note:						
Note: The estimation distance is 20cm						
Note: PK Output power= conducted power. Conducted power see the test report HK1812061880-E, antenna gain=1dBi.						

**Conclusion**

Maximum MPE meets FCC radiation exposure limits, so SAR testing is not required.

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