

MPE ESTIMATION
 FCC ID: 2AUM3-RK3399

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

For 2.4G 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)
11b	12.24	12±1(13)	19.95	1	1.2589	0.00500
11g	11.46	11±1(12)	15.85	1	1.2589	0.00397
11n/HT20	10.39	10±1(11)	12.59	1	1.2589	0.00315

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report HK1908302148-2E, antenna gain=1dBi.

Mode	CH	PK Output power(dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm ²)
11b	CH1	12.24	16.75	1	1.2589	0.00420
	CH6	12.12	16.29	1	1.2589	0.00408
	CH11	12.09	16.18	1	1.2589	0.00405
11g	CH1	11.46	14.00	1	1.2589	0.00351
	CH6	11.15	13.03	1	1.2589	0.00327
	CH11	11.04	12.71	1	1.2589	0.00318
11n/HT20	CH1	10.39	10.94	1	1.2589	0.00274
	CH6	10.27	10.64	1	1.2589	0.00267
	CH11	10.11	10.26	1	1.2589	0.00257

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report HK1908302148-2E, antenna gain=1dBi.

For BT BLE:

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)
2402	2.502	2±1(3)	2	1	1.2589	0.00050
$Pd = \frac{Pout * G}{4\pi r^2};$						
Note:						
Note: The estimation distance is 20cm						
Note: PK Output power= conducted power. Conducted power see the test report HK1908302148-1E, antenna gain=1dBi.						

Mode	PK Output power(dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm ²)
2402	2.502	1.78	1	1.2589	0.00045
2440	2.106	1.62	1	1.2589	0.00041
2480	2.073	1.61	1	1.2589	0.00040
$Pd = \frac{Pout * G}{4\pi r^2};$					
Note:					
Note: The estimation distance is 20cm					
Note: PK Output power= conducted power. Conducted power see the test report HK1908302148-1E, antenna gain=1dBi.					

Note: WiFi and BT functions can be used at the same time, so the maximum MPE value is 0.0055 mW/cm², it meets the requirements.