

MPE ESTIMATION
 FCC ID: **2APQK-SB50**

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

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	12.91	12 ± 1(13)	19.95	1	1.2589	0.00500
11g	12.87	12 ± 1(13)	19.95	1	1.2589	0.00500
11n/HT20	11.91	11 ± 1(12)	15.85	1	1.2589	0.00397
11n/HT40	10.95	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 HK1811151676-E, antenna gain=1dBi.

Mode	CH	PK Output power(dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm ²)
11b	CH1	12.91	19.54	1	1.2589	0.00490
	CH6	12.35	17.18	1	1.2589	0.00430
	CH11	12.16	16.44	1	1.2589	0.00412
11g	CH1	12.87	19.36	1	1.2589	0.00485
	CH6	12.51	17.82	1	1.2589	0.00447
	CH11	11.74	14.93	1	1.2589	0.00374
11n/HT20	CH1	11.91	15.52	1	1.2589	0.00389
	CH6	11.76	15.00	1	1.2589	0.00376
	CH11	11.28	13.43	1	1.2589	0.00336
11n/HT40	CH1	10.84	12.13	1	1.2589	0.00304
	CH4	10.95	12.45	1	1.2589	0.00312
	CH7	10.57	11.40	1	1.2589	0.00286

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report HK1811151676-E, antenna gain=1dBi.

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