



MPE ESTIMATION

**Test report
On Behalf of
Shenzhen Core Image Co.,LTD
For
WIFI LED Bulb
Model No.: SB53**

FCC ID: 2APQK-SB53

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Report Number: HK1905211171-2E

**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**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	13.14	12.5±1(13.5)	22.39	1	1.2589	0.00561
11g	12.42	12±1(13)	19.95	1	1.2589	0.00500
11n/HT20	11.37	11±1(12)	15.85	1	1.2589	0.00397

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

Note:

Note: The estimation distance is 20cm

Note:

PK Output power= conducted power.

Conducted power see the test report HK1905211171-1E, antenna gain=1dBi

when the minimum test separation distance is >20 cm, a distance of 20 cm is applied to determine SAR test exclusion. The test exclusion threshold is 0.00561mW/cm² which is < 1.0mW/cm², SAR testing is not required.

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