

MPE ESTIMATION

FCC ID: 2AS7I-323

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	13.62	13 ± 1(14)	25.12	1	1.2589	0.00629
11g	12.86	12 ± 1(13)	19.95	1	1.2589	0.00500
11n/HT20	11.77	11 ± 1(12)	15.85	1	1.2589	0.00397
11n/HT40	11.14	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 HK1905091050-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	13.62	23.01	1	1.2589	0.00577
	CH6	13.01	20.00	1	1.2589	0.00501
	CH11	13.34	21.58	1	1.2589	0.00541
11g	CH1	12.59	18.16	1	1.2589	0.00455
	CH6	12.21	16.63	1	1.2589	0.00417
	CH11	12.86	19.32	1	1.2589	0.00484
11n/HT20	CH1	11.77	15.03	1	1.2589	0.00377
	CH6	11.26	13.37	1	1.2589	0.00335
	CH11	11.02	12.65	1	1.2589	0.00317
11n/HT40	CH1	11.14	13.00	1	1.2589	0.00326
	CH4	10.71	11.78	1	1.2589	0.00295
	CH7	10.63	11.56	1	1.2589	0.00290

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report HK1905091050-E, antenna gain=1dBi.

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