MPE ESTIMATION

FCC ID: **2AL7VARGUSECO**

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/cm²)
11b	15.34	14.5±1(15.5)	35.48	5	3.1623	0.02233
11g	14.75	14±1(15)	31.62	5	3.1623	0.01990
11n/HT20	13.49	13±1(14)	25.12	5	3.1623	0.01581
11n/HT40	12.86	12±1(13)	19.95	5	3.1623	0.01256

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report HK1901160220-E, antenna gain=5dBi.

Mode	CH	PK Output power(dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm²)
11b	CH1	15.21	33.19	5	3.1623	0.02089
	CH6	15.34	34.20	5	3.1623	0.02153
	CH11	15.25	33.50	5	3.1623	0.02108
11g	CH1	14.71	29.58	5	3.1623	0.01862
	CH6	14.75	29.85	5	3.1623	0.01879
	CH11	14.49	28.12	5	3.1623	0.01770
11n/HT20	CH1	13.49	22.34	5	3.1623	0.01406
	CH6	13.26	21.18	5	3.1623	0.01333
	CH11	13.20	20.89	5	3.1623	0.01315
11n/HT40	CH3	12.86	19.32	5	3.1623	0.01216
	CH6	12.64	18.37	5	3.1623	0.01156
	CH9	12.66	18.45	5	3.1623	0.01161

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

Note:

Note: The estimation distance is 20cm

Note: PK Output power= conducted power.

Conducted power see the test report HK1901160220-E, antenna gain=5dBi.

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