

MPE ESTIMATION

FCC ID: 2AQSI-AKZ-M4

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	12.81	12 ± 1(13)	19.95	1	1.2589	0.00500
11g	11.67	11 ± 1(12)	15.85	1	1.2589	0.00397
11n/HT20	11.39	11 ± 1(12)	15.85	1	1.2589	0.00397
11n/HT40	10.89	10 ± 1(11)	12.59	1	1.2589	0.00315
$Pd = \frac{P_{out} * G}{4\pi r^2};$						
Note:						
Note: The estimation distance is 20cm						
Note: PK Output power= conducted power. Conducted power see the test report HUAK180801756-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	12.81	19.10	1	1.2589	0.00479

	CH6	12.11	16.26	1	1.2589	0.00407
	CH11	12.72	18.71	1	1.2589	0.00469
11g	CH1	11.67	14.69	1	1.2589	0.00368
	CH6	11.40	13.80	1	1.2589	0.00346
	CH11	11.29	13.46	1	1.2589	0.00337
11n/HT20	CH1	11.39	13.77	1	1.2589	0.00345
	CH6	11.29	13.46	1	1.2589	0.00337
	CH11	11.26	13.37	1	1.2589	0.00335
11n/HT40	CH1	10.80	12.02	1	1.2589	0.00301
	CH4	10.89	12.27	1	1.2589	0.00308
	CH7	10.43	11.04	1	1.2589	0.00277
$Pd = \frac{P_{out} * G}{4\pi r^2} ;$						
Note:						
Note: The estimation distance is 20cm						
Note: PK Output power= conducted power. Conducted power see the test report HUAK180801756-E, antenna gain=1dBi.						

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