

MPE ESTIMATION
FCC ID: 2ATO3AL-01WIFI

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

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	12.78	12±1(13)	19.95	1	1.2589	0.004999
11g	12.34	12±1(13)	19.95	1	1.2589	0.004999
11n/HT20	11.67	11±1(12)	15.85	1	1.2589	0.003975

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

Note: The estimation distance is 20cm.

Note: PK Output power= conducted power.

Conducted power see the test report UNIA19061413FR-01, antenna gain=1dBi.

Mode	CH	PK Output power(dBm)	Output power(mW)	Antenna Gain(dBi)	Antenna Gain (linear)	MPE (mW/cm ²)
11b	1	12.57	18.07	1	1.2589	0.004528
	6	12.49	17.74	1	1.2589	0.004445
	11	12.78	18.97	1	1.2589	0.004752
11g	1	12.07	16.10	1	1.2589	0.004036
	6	12.15	16.40	1	1.2589	0.004111
	11	12.34	17.14	1	1.2589	0.004294
11n/HT20	1	11.67	14.69	1	1.2589	0.003680
	6	11.64	14.59	1	1.2589	0.003655
	11	11.53	14.22	1	1.2589	0.003564
$Pd = \frac{P_{out} * G}{4\pi r^2}$						
Note:						
Note: The estimation distance is 20cm.						
Note: PK Output power= conducted power. Conducted power see the test report UNIA19061413FR-01, antenna gain=1dBi.						

Conclusion: No SAR evaluation required since transmitter power is below FCC threshold
 -----The End-----