

MPE ESTIMATION

FCC ID: 2AT5P-XXAA008

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/cm²)
11b	12.82	12±1(13)	19.95	1	1.2589	0.004999
11g	12.41	12±1(13)	19.95	1	1.2589	0.004999
11n/HT20	12.02	12±1(13)	19.95	1	1.2589	0.004999
$Pd = \frac{P_{out} * G}{4\pi r^2}$						
Note:						
Note: The estimation distance is 20cm.						
Note: PK Output power= conducted power.						
Conducted power see the test report UNIA19082111-02FR-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	12.67	18.49	1	1.2589	0.004634
	6	12.82	19.14	1	1.2589	0.004797
	11	12.74	18.79	1	1.2589	0.004709
11g	1	12.24	16.75	1	1.2589	0.004197
	6	12.34	17.13	1	1.2589	0.004295
	11	12.41	17.41	1	1.2589	0.004364
11n/HT20	1	12.02	15.92	1	1.2589	0.003990
	6	11.94	15.63	1	1.2589	0.003917
	11	11.88	15.42	1	1.2589	0.003863
$Pd = \frac{Pout * G}{4\pi r^2}$						
Note:						
Note: The estimation distance is 20cm.						
Note: PK Output power= conducted power. Conducted power see the test report UNIA19082111-02FR-01, antenna gain=1dBi						

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