

MPE ESTIMATION

FCC ID: 2AP2GECH-CAST

1. Limit for General Population/Uncontrolled Exposures

Frequency	Power density(mW/cm2)	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	12.93	12±1(13)	19.95	1	1.2589	0.004999
11g	12.64	12±1(13)	19.95	1	1.2589	0.004999
11n/HT20	12.39	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 UNIA19031812FR-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	12.86	19.32	1	1.2589	0.004841
	6	12.57	18.07	1	1.2589	0.004528
	11	12.93	19.63	1	1.2589	0.004919
11g	1	12.64	18.37	1	1.2589	0.004602
	6	12.62	18.28	1	1.2589	0.004581
	11	12.38	17.30	1	1.2589	0.004334
11n/HT20	1	12.35	17.18	1	1.2589	0.004304
	6	12.37	17.26	1	1.2589	0.004324
	11	12.39	17.34	1	1.2589	0.004344
$Pd = \frac{P_{out} * G}{4\pi r^2}$						
Note:						
Note: The estimation distance is 20cm.						
Note: PK Output power= conducted power. Conducted power see the test report UNIA19031812FR-01, antenna gain=1dBi.						

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