

9. MPE ESTIMATION

9.1.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

Frequency (MHz)	Power density (mW/cm ²)	Averaging time (minutes)
2412	1.0	30
2442	1.0	30
2462	1.0	30

Note: F = Frequency in MHz

9.2.Estimation Result

2.1 IEEE 802.11b Mode

Channel	Frequency(MHz)	Peak output power(dBm)	antenna gain(dBi)	antenna gain (Linear)
1	2412	22.39	3	2
7	2442	21.7	3	2
11	2462	21.29	3	2

Channel	Frequency(MHz)	Peak output power to antenna (mW)	Power density at 20cm(mW/ cm ²)
1	2412	173.38	0.069
7	2442	147.91	0.059
11	2462	134.59	0.054

2.2 IEEE 802.11g Mode

Channel	Frequency(MHz)	Peak output power(dBm)	antenna gain(dBi)	antenna gain (Linear)
1	2412	23.6	3	2
7	2442	23.58	3	2
11	2462	23.45	3	2

Channel	Frequency(MHz)	Peak output power to antenna (mW)	Power density at 20cm(mW/ cm²)
1	2412	229.09	0.091
7	2442	228.03	0.091
11	2462	221.31	0.088

2.3 IEEE 802.11g Turbo Mode

Channel	Frequency(MHz)	Peak output power(dBm)	antenna gain(dBi)	antenna gain (Linear)
6	2437	23.43	3	2

Channel	Frequency(MHz)	Peak output power to antenna (mW)	Power density at 20cm(mW/ cm²)
6	2437	220.3	0.088