

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	16.95	4	2.51
7	2442	17.57	4	2.51
11	2462	17.84	4	2.51

Channel	Frequency(MHz)	Peak output power to antenna (mW)	Power density at 20cm(mW/ cm ²)
1	2412	49.55	0.0248
7	2442	57.15	0.0286
11	2462	60.81	0.0303

2.2 IEEE 802.11g Mode

Channel	Frequency(MHz)	Peak output power(dBm)	antenna gain(dBi)	antenna gain (Linear)
1	2412	22.18	4	2.51
7	2442	24.61	4	2.51
11	2462	22.07	4	2.51

Channel	Frequency(MHz)	Peak output power to antenna (mW)	Power density at 20cm(mW/ cm ²)
1	2412	165.20	0.0825
7	2442	289.07	0.1444
11	2462	161.06	0.0805

2.3 IEEE 802.11g Turbo Mode

Channel	Frequency(MHz)	Peak output power(dBm)	antenna gain(dBi)	antenna gain (Linear)
6	2437	24.73	4	2.51

Channel	Frequency(MHz)	Peak output power to antenna (mW)	Power density at 20cm(mW/ cm ²)
6	2437	297.17	0.1485