

## 9. MPE ESTIMATION

### 9.1.Limit for General Population / Uncontrolled Exposures

Frequency	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
300MHz~1.5GHz	F/1500	30
1.5GHz~100GHz	1.0	30

Frequency (MHz)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
2412	0.6	30
2437	0.61	30
2462	0.62	30

Note: F = Frequency in MHz

### 9.2.Estimation Result

#### IEEE 802.11b Mode

Channel	Frequency(MHz)	Peak output power(dBm)	antenna gain(dBi)	antenna gain (Linear)
1	2412	9.67	2	1.58
6	2437	10.19	2	1.58
11	2462	12.66	2	1.58

Channel	Frequency(MHz)	Peak output power to antenna (mW)	Power density at 20cm(mW/ cm <sup>2</sup> )
1	2412	9.27	0.003
6	2437	10.45	0.003
11	2462	18.45	0.006

#### IEEE 802.11g Mode

Channel	Frequency(MHz)	Peak output power(dBm)	antenna gain(dBi)	antenna gain (Linear)
1	2412	9.84	2	1.58
6	2437	10.26	2	1.58
11	2462	13.6	2	1.58

Channel	Frequency(MHz)	Peak output power to antenna (mW)	Power density at 20cm(mW/ cm <sup>2</sup> )
1	2412	9.64	0.003
6	2437	10.62	0.003
11	2462	22.91	0.007