

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	0.6	30
2437	0.61	30
2462	0.62	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	19.84	2	1.58
6	2437	20.10	2	1.58
11	2462	19.94	2	1.58

Channel	Frequency(MHz)	Peak output power to antenna (mW)	Power density at 20cm(mW/ cm ²)
1	2412	96.38	0.03
6	2437	102.33	0.032
11	2462	98.63	0.031

2.2 IEEE 802.11g Mode

Channel	Frequency(MHz)	Peak output power(dBm)	antenna gain(dBi)	antenna gain (Linear)
1	2412	20.98	2	1.58
6	2437	22.09	2	1.58
11	2462	21.17	2	1.58

Channel	Frequency(MHz)	Peak output power to antenna (mW)	Power density at 20cm(mW/ cm ²)
1	2412	125.31	0.039
6	2437	161.81	0.051
11	2462	130.92	0.041

2.3 IEEE 802.11n HT20 Mode

Channel	Frequency(MHz)	Peak output power(dBm)	antenna gain(dBi)	antenna gain (Linear)
1	2412	21.05	2	1.58
6	2437	22.52	2	1.58
11	2462	21.02	2	1.58

Channel	Frequency(MHz)	Peak output power to antenna (mW)	Power density at 20cm(mW/ cm ²)
1	2412	127.35	0.04
6	2437	178.65	0.056
11	2462	126.47	0.04

2.4 IEEE 802.11n HT40 Mode

Channel	Frequency(MHz)	Peak output power(dBm)	antenna gain(dBi)	antenna gain (Linear)
1	2422	23.59	2	1.58
4	2437	23.48	2	1.58
7	2452	23.37	2	1.58

Channel	Frequency(MHz)	Peak output power to antenna (mW)	Power density at 20cm(mW/ cm ²)
1	2422	228.56	0.072
4	2437	222.84	0.07
7	2452	217.27	0.068