

11. MPE ESTIMATION

11.1. 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	30
2437	1	30
2462	1	30

Note: F= Frequency in MHz

11.2. Estimation Result

EUT: 300Mbps Multi-Function Wireless N Router		
M/N: TL-WR842ND		
Test date: 2011-11-13	Pressure: 100.6 kpa	Humidity: 49.8%
Tested by: Leo-Li	Test site: RF Site	Temperature : 25.2℃

Cable loss: 1 dB		Attenuator loss: 20 dB				Antenna Gain: 5 dBi	
Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	2412	20.58	114.29	5	3.16	0.0719
	CH6	2437	20.79	119.95	5	3.16	0.0755
	CH11	2462	20.46	111.17	5	3.16	0.0700
11g	CH1	2412	20.77	119.40	5	3.16	0.0752
	CH6	2437	22.68	185.35	5	3.16	0.1167
	CH11	2462	20.91	123.31	5	3.16	0.0776
11n HT20	CH1	2412	23.61	229.61	5	3.16	0.1445
	CH6	2437	25.89	388.15	5	3.16	0.2443
	CH11	2462	23.77	238.23	5	3.16	0.1500
11n HT40	CH1	2412	21.94	156.31	5	3.16	0.0984
	CH4	2437	26.90	489.78	5	3.16	0.3083
	CH7	2462	22.07	161.06	5	3.16	0.1014

Note: The estimation distance is 20cm