

## 11.MPE ESTIMATION

### 11.1.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	1	30
2437	1	30
2462	1	30

Note: F= Frequency in MHz

### 11.2. Estimation Result

EUT: 300Mbps High Gain Wireless USB Adapter		
M/N: TL-WN822N		
Test date: 2012-13-31	Pressure: 101.2±1.0 kpa	Humidity: 51.6±3.0%
Tested by: Leo-Li	Test site: RF Site	Temperature : 20.8±0.6 °C

Cable loss: 1 dB		Attenuator loss: 20 dB					
Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	2412	20.26	106.17	2.5	1.78	0.0376
	CH6	2437	18.10	64.57	2.5	1.78	0.0229
	CH11	2462	18.37	68.71	2.5	1.78	0.0243
11g	CH1	2412	21.29	134.59	2.5	1.78	0.0476
	CH6	2437	22.60	181.97	2.5	1.78	0.0644
	CH11	2462	21.52	141.91	2.5	1.78	0.0502
11n HT20	CH1	2412	23.35	216.27	2.5	1.78	0.0766
	CH6	2437	25.42	348.34	2.5	1.78	0.1233
	CH11	2462	24.27	267.30	2.5	1.78	0.0946
11n HT40	CH1	2422	22.52	178.65	2.5	1.78	0.0632
	CH4	2437	23.18	207.97	2.5	1.78	0.0736
	CH7	2452	22.84	192.31	2.5	1.78	0.0681