

## 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 Wireless N Range Extender		
M/N: TL-WA830RE		
Test date:2011-11-21	Pressure: 100.6 kpa	Humidity: 47%
Tested by: Leo-Li	Test site: RF Site	Temperature : 25°C

Cable loss: 1 dB		Attenuator loss: 20 dB				Antenna Gain: 4 dBi	
Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	2412	17.49	56.10	4	2.51	0.0281
	CH6	2437	17.87	61.24	4	2.51	0.0306
	CH11	2462	16.55	45.19	4	2.51	0.0226
11g	CH1	2412	20.71	117.76	4	2.51	0.0589
	CH6	2437	21.77	150.31	4	2.51	0.0752
	CH11	2462	20.53	112.98	4	2.51	0.0565
11n HT20	CH1	2412	21.23	132.74	4	2.51	0.0664
	CH6	2437	24.45	278.61	4	2.51	0.1393
	CH11	2462	18.41	69.34	4	2.51	0.0347
11n HT40	CH1	2422	20.00	100.00	4	2.51	0.0500
	CH4	2437	26.11	408.32	4	2.51	0.2042
	CH7	2452	17.88	61.38	4	2.51	0.0307

Note: The estimation distance is 20cm