

10.MPE ESTIMATION

10.1.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

10.2. Estimation Result

EUT:300Mbps Wireless N Router		
M/N:RT-N300		
Test date: 2014-04-14	Pressure: 101.2±1.0 kpa	Humidity: 49.6±3.0%
Tested by: kobe_huang	Test site: RF site	Temperature:22.7±0.6 °C

Test Mode	CH	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	20.92	123.59	6.53	4.50	0.1106
	CH6	20.73	118.30	6.53	4.50	0.1059
	CH11	20.03	100.69	6.53	4.50	0.0901
11g	CH1	22.80	190.55	6.53	4.50	0.1706
	CH6	23.56	226.99	6.53	4.50	0.2032
	CH11	21.63	145.55	6.53	4.50	0.1303
11n HT20	CH1	22.26	168.27	6.53	4.50	0.1506
	CH6	23.45	221.31	6.53	4.50	0.1981
	CH11	21.88	154.17	6.53	4.50	0.1380
11n HT40	CH3	17.64	58.08	6.53	4.50	0.0520
	CH6	20.17	103.99	6.53	4.50	0.0931
	CH9	17.37	54.58	6.53	4.50	0.0489

$$MPE = \frac{PG}{4\pi R^2} \quad (R=20cm)$$