

## 10.MPE ESTIMATION

### 10.1.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

## 10.2. Estimation Result

EUT: Altai A8n (ac) Super WiFi Base Station		
M/N: WA8011NAC-X		
Test date: 2016-02-25	Pressure: 101.4±1.0 kpa	Humidity: 50.3±3.0%
Tested by: Donjon_Huang	Test site: RF site	Temperature: 20.2±0.6

Test Mode	CH	Frequency ( MHz )	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	2412	21.27	133.97	14	25.12	0.6698
	CH6	2437	21.08	128.23	14	25.12	0.6411
	CH11	2462	21.08	128.23	14	25.12	0.6411
11g	CH1	2412	21.28	134.28	14	25.12	0.6714
	CH6	2437	21.28	134.28	14	25.12	0.6714
	CH11	2462	21.32	135.52	14	25.12	0.6776
11n HT20	CH1	2412	21.42	138.68	14	25.12	0.6933
	CH6	2437	21.34	136.14	14	25.12	0.6807
	CH11	2462	21.48	140.60	14	25.12	0.7030
11n HT40	CH3	2422	21.21	132.13	14	25.12	0.6606
	CH6	2437	21.33	135.83	14	25.12	0.6791
	CH9	2452	21.42	138.68	14	25.12	0.6933

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