

9. MPE ESTIMATION

9.1.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

Note: F= Frequency in MHz

9.2. Estimation Result

EUT: N600 Wireless Dual Band Gigabit Access Point						
M/N: EAP220						
Test date: 2015-03-15		Pressure: 101.2±1.0 kpa			Humidity: 50.5±3.0%	
Tested by: Black_Yan		Test site: RF site			Temperature:23.4±0.6 °C	
U-NII 5180-5240MHz Band						
Test Mode	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	5180	18.48	70.47	4	2.51	0.0352
	5200	19.19	82.99	4	2.51	0.0415
	5240	19.72	93.76	4	2.51	0.0469
11n HT20	5180	18.80	75.86	4	2.51	0.0379
	5200	19.40	87.10	4	2.51	0.0435
	5240	19.63	91.83	4	2.51	0.0459
11n HT40	5190	19.73	93.97	4	2.51	0.0470
	5230	20.43	110.41	4	2.51	0.0552
U-NII 5745-5825MHz Band						
Test Mode	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	5745	20.26	106.17	4	2.51	0.0531
	5785	20.45	110.92	4	2.51	0.0555
	5825	20.62	115.35	4	2.51	0.0577
11n HT20	5745	18.85	76.74	4	2.51	0.0384
	5785	19.14	82.04	4	2.51	0.0410
	5825	19.76	94.62	4	2.51	0.0473
11n HT40	5755	19.83	96.16	4	2.51	0.0481
	5795	20.04	100.93	4	2.51	0.0505

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