

## 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 Estimation Result

### 5MHz

EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE		
M/N: CPE210		
Test date: 2014-04-01	Pressure: 101.3 ± 1.0 kpa	Humidity: 52.3 ± 3.0%
Tested by: Leo-Li	Test site: RF site	Temperature: 21.9 ± 0.6

Cable loss: 1 dB		Attenuator loss: 20 dB				Antenna Gain: 9dBi	
Test Mode	CH	Frequency ( MHz )	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	2412	27.36	544.50	9	7.94	0.8609
	CH6	2437	27.43	553.35	9	7.94	0.8749
	CH11	2462	26.91	490.91	9	7.94	0.7762
11g	CH1	2412	27.22	527.23	9	7.94	0.8336
	CH6	2437	27.20	524.81	9	7.94	0.8298
	CH11	2462	27.40	549.54	9	7.94	0.8689
11n HT20	CH1	2412	27.60	575.44	9	7.94	0.9098
	CH6	2437	27.46	557.19	9	7.94	0.8809
	CH11	2462	27.29	535.80	9	7.94	0.8471

**10MHz**

EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE		
M/N: CPE210		
Test date: 2014-04-01	Pressure: 101.3 ± 1.0 kpa	Humidity: 52.6 ± 3.0%
Tested by: Leo-Li	Test site: RF site	Temperature: 22.4 ± 0.6

Cable loss: 1 dB		Attenuator loss: 20 dB				Antenna Gain: 9dBi	
Test Mode	CH	Frequency ( MHz )	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	2412	27.31	538.27	9	7.94	0.8510
	CH6	2437	27.68	586.14	9	7.94	0.9267
	CH11	2462	27.55	568.85	9	7.94	0.8994
11g	CH1	2412	27.24	529.66	9	7.94	0.8374
	CH6	2437	27.39	548.28	9	7.94	0.8669
	CH11	2462	27.30	537.03	9	7.94	0.8491
11n HT20	CH1	2412	27.43	553.35	9	7.94	0.8749
	CH6	2437	27.49	561.05	9	7.94	0.8871
	CH11	2462	27.47	558.47	9	7.94	0.8830

**20MHz**

EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE		
M/N: CPE210		
Test date: 2014-3-25	Pressure: 101.3 ± 1.0kpa	Humidity: 52.2 ± 3.0%
Tested by: Leo-Li	Test site: RF site	Temperature: 21.4 ± 0.6

Cable loss: 1 dB		Attenuator loss: 20 dB				Antenna Gain: 9dBi	
Test Mode	CH	Frequency ( MHz )	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	2412	27.75	595.66	9	7.94	0.9418
	CH6	2437	27.50	562.34	9	7.94	0.8891
	CH11	2462	27.33	540.75	9	7.94	0.8550
11g	CH1	2412	27.93	620.87	9	7.94	0.9816
	CH6	2437	27.79	601.17	9	7.94	0.9505
	CH11	2462	27.91	618.02	9	7.94	0.9771
11n HT20	CH1	2412	25.70	371.54	9	7.94	0.5874
	CH6	2437	27.80	602.56	9	7.94	0.9527
	CH11	2462	25.61	363.92	9	7.94	0.5754

**40MHz**

EUT: 2.4GHz 300Mbps 9dBi Outdoor CPE		
M/N: CPE210		
Test date: 2014-3-25	Pressure: 101.3 ± 1.0 kpa	Humidity: 52.2 ± 3.0%
Tested by: Leo-Li	Test site: RF site	Temperature: 21.4 ± 0.6

Cable loss: 1 dB		Attenuator loss: 20 dB				Antenna Gain: 9dBi	
Test Mode	CH	Frequency ( MHz )	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11n HT40	CH1	2422	25.29	338.06	9	7.94	0.5345
	CH4	2437	27.95	623.73	9	7.94	0.9862
	CH7	2452	24.41	276.06	9	7.94	0.4365