

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

U-NII 5180-5240MHz Band

EUT: 65'' LCD PC		
M/N: INF6502		
Test date: 2015-11-18	Pressure: 101.5±1.0 kpa	Humidity: 53.1±3.0%
Tested by: Leo-Li	Test site: RF site	Temperature: 23.9±0.6 °C

Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	CH36	5180	6.84	4.83	3.43	2.20	0.2117
	CH40	5200	7.16	5.20	3.43	2.20	0.2279
	CH48	5240	6.54	4.51	3.43	2.20	0.1976
11n HT20	CH36	5180	6.27	4.24	3.43	2.20	0.1856
	CH40	5200	6.29	4.26	3.43	2.20	0.1865
	CH48	5240	5.88	3.87	3.43	2.20	0.1697
11n HT40	CH38	5190	6.55	4.52	3.43	2.20	0.1980
	CH46	5230	7.21	4.83	3.43	2.20	0.2117

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

U-NII 5745-5825MHz Band

EUT: 65'' LCD PC		
M/N: INF6502		
Test date: 2015-11-18	Pressure: 101.2±1.0 kpa	Humidity: 52.4±3.0%
Tested by: Leo-Li	Test site: RF site	Temperature:23.2±0.6 °C

Test Mode	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11a	5745	8.82	7.62	3.43	2.20	0.3340
	5785	9.03	8.00	3.43	2.20	0.3505
	5825	8.79	7.57	3.43	2.20	0.3317
11n HT20	5745	8.93	7.82	3.43	2.20	0.3425
	5785	9.31	8.53	3.43	2.20	0.3738
	5825	8.74	7.48	3.43	2.20	0.3279
11n HT40	5755	9.61	9.14	3.43	2.20	0.4006
	5795	9.55	9.02	3.43	2.20	0.3951

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