

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

2.4GHz

EUT:AC1750 Wireless Dual Band PCI Express Adapter		
M/N: Archer T8E		
Test date: 2014-10-21	Pressure: 101.2±1.0 kpa	Humidity: 49.7±3.0%
Tested by: Kobe_Huang	Test site: RF site	Temperature:22.6±0.6 °C

Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	PSD (mW /cm ²)
11b	CH1	2412	27.07	509.33	2	1.58	0.1607
	CH6	2437	26.59	456.04	2	1.58	0.1439
	CH11	2462	26.59	456.04	2	1.58	0.1439
11g	CH1	2412	22.29	169.43	2	1.58	0.0535
	CH6	2437	22.34	171.40	2	1.58	0.0541
	CH11	2462	21.81	151.71	2	1.58	0.0479
11n HT20	CH1	2412	21.38	137.40	2	1.58	0.0433
	CH6	2437	22.11	162.55	2	1.58	0.0513
	CH11	2462	21.83	152.41	2	1.58	0.0481
11n HT40	CH3	2422	19.31	85.31	2	1.58	0.0269
	CH6	2437	22.38	172.98	2	1.58	0.0546
	CH9	2452	19.55	90.16	2	1.58	0.0284

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