

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

EUT:Altai A3-Ei Dual-band 3X3 802.11ac WiFi AP		
M/N: WA3311NAC-E		
Test date: 2015-12-12	Pressure: 101.4±1.0 kpa	Humidity: 52.3±3.0%
Tested by:Leo-Li	Test site: RF site	Temperature:23.2±0.6

Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	2412	19.83	96.16	12	15.85	0.3034
	CH6	2437	19.78	95.06	12	15.85	0.2999
	CH11	2462	19.71	93.54	12	15.85	0.2951
11g	CH1	2412	19.74	94.19	12	15.85	0.2971
	CH6	2437	19.70	93.33	12	15.85	0.2944
	CH11	2462	19.69	93.11	12	15.85	0.2937
11n HT20	CH1	2412	19.72	93.76	12	15.85	0.2958
	CH6	2437	19.71	93.54	12	15.85	0.2951
	CH11	2462	19.69	93.11	12	15.85	0.2937
11n HT40	CH3	2422	19.76	94.62	12	15.85	0.2985
	CH6	2437	19.60	91.20	12	15.85	0.2877
	CH9	2452	19.51	89.33	12	15.85	0.2818

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