

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 A3c Indoor Dual-band 3X3 802.11ac WiFi AP		
M/N: WA3311NAC-C		
Test date: 2016-01-28	Pressure: 101.4±1.0 kpa	Humidity: 52.5±3.0%
Tested by: Leo-Li	Test site: RF site	Temperature:23.7±0.6

Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	2412	23.21	209.41	4	2.51	0.1047
	CH6	2437	22.82	191.43	4	2.51	0.0957
	CH11	2462	22.57	180.72	4	2.51	0.0904
11g	CH1	2412	24.77	299.92	4	2.51	0.1500
	CH6	2437	24.38	274.16	4	2.51	0.1371
	CH11	2462	24.84	304.79	4	2.51	0.1524
11n HT20	CH1	2412	24.78	300.61	4	2.51	0.1503
	CH6	2437	24.21	263.63	4	2.51	0.1318
	CH11	2462	24.53	283.79	4	2.51	0.1419
11n HT40	CH3	2422	25.29	338.06	4	2.51	0.1690
	CH6	2437	25.01	316.96	4	2.51	0.1585
	CH9	2452	24.39	274.79	4	2.51	0.1374

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