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: Atom Engine Burner		
M/N: FR-WR5014TF-C		
Test date: 2016-05-25	Pressure: 101.4±1.0 kpa	Humidity: 50.3±3.0%
Tested by: Donjon_Huang	Test site: RF site	Temperature:20.2±0.6 ℃

Test Mode	CH	Frequency（MHz）	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	2412	15.93	39.17	2	1.58	0.0124
	CH6	2437	16.68	46.56	2	1.58	0.0147
	CH11	2462	17.08	51.05	2	1.58	0.0161
11g	CH1	2412	17.12	51.52	2	1.58	0.0163
	CH6	2437	17.28	53.46	2	1.58	0.0169
	CH11	2462	17.32	53.95	2	1.58	0.0170
11n HT20	CH1	2412	15.77	37.76	2	1.58	0.0119
	CH6	2437	16.17	41.40	2	1.58	0.0131
	CH11	2462	16.42	43.85	2	1.58	0.0138
11n HT40	CH3	2422	16.20	41.69	2	1.58	0.0132
	CH6	2437	16.56	45.29	2	1.58	0.0143
	CH9	2452	16.69	46.67	2	1.58	0.0147

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