

10. MPE ESTIMATION

10.1.Limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/cm2)	Averaging time(minutes)
300MHz----1.5GHz	F/1500	30
1.5GHz---100GHz	1.0	30

Frequency	Power density (mW/cm2)	Averaging time(minutes)
2412	1	30
2437	1	30
2462	1	30

Note: F= Frequency in MHz

10.2.Estimation Result

EUT: Wireless Speaker						
M/N: LF-S50G						
Test date: 2017-06-21			Pressure: 102.1±1.0 kpa		Humidity: 51.1±3.0%	
Tested by: Alice-Yang			Test site: RF site		Temperature:22.8±0.6 °C	
Test Mode	Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	2412	15.34	34.20	2.1	1.62	0.0110
	2437	15.96	39.45	2.1	1.62	0.0127
	2462	16.31	42.76	2.1	1.62	0.0138
11g	2412	11.43	13.90	2.1	1.62	0.0045
	2437	11.76	15.00	2.1	1.62	0.0048
	2462	11.89	15.45	2.1	1.62	0.0050
11n HT20	2412	11.23	13.27	2.1	1.62	0.0043
	2437	11.61	14.49	2.1	1.62	0.0047
	2462	11.76	15.00	2.1	1.62	0.0048

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