

$$S = GP/(4\pi R^2)$$

S = power density

P = power output

G = antenna gain

R = distance to antenna

PD = power density

	WIFI		BT		RFID	
P	13.59 (dBm)		2.06 (dBm)		29.43 (dBm)	
P	23 (mW)		1.61 (mW)		877 (mW)	
G	4.4 (dBi)		1.3 (dBi)		2.7 (dBi)	
G numeric	2.75 (numeric)		1.35 (numeric)		1.86 (numeric)	
R	20 (cm)		20 (cm)		20 (cm)	
Duty Cycle	100 (%)		100 (%)		100 (%)	
Frequency	2412 (MHz)		2402 (MHz)		902 (MHz)	
MPE limit	1.0 (mW/cm ²)		1.0 (mW/cm ²)		0.601 (mW/cm ²)	
PD	0.0125 (mW/cm ²)		0.000431 (mW/cm ²)		0.325 (mW/cm ²)	
Margin	19.0 (dB)		33.7 (dB)		2.7 (dB)	
Combined	0.01252	+	0.000431	+	0.54	= 0.55