

RF Exposure Information

$$\text{Power Density} = P_d \text{ (mW/cm}^2\text{)} = \text{EIRP} / 4 \pi d^2$$

$$\text{EIRP} = P \cdot G$$

P = Peak output power (mW)

G = Antenna numeric gain (numeric)

d = Separation distance (cm)

Because the EUT belongs to General Population/ Uncontrolled Exposure, the limit of power density is 1.0 mW/cm².

802.11b

Channel NO.	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated RF Exposure at d=20cm (mW/cm ²)	Limit (mW/cm ²)
Channel 01	2.98	1.98	17.45	55.59	0.0219	1.00
Channel 06	2.98	1.98	17.26	53.21	0.0210	1.00
Channel 11	2.98	1.98	17.4	54.95	0.0217	1.00

802.11g

Channel NO.	Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Calculated RF Exposure at d=20cm (mW/cm ²)	Limit (mW/cm ²)
Channel 01	2.98	1.98	17.37	54.571	0.0215	1.00
Channel 06	2.98	1.98	17.41	55.08	0.0217	1.00
Channel 11	2.98	1.98	17.27	53.33	0.0210	1.00

The worst case of MPE is 802.11b and 802.11g modes.