

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to isotropic

R = distance to the center of radiation of the antenna

	BT	WLAN	RFID
output power	<u>3.46</u> (dBm)	<u>19.03</u> (dBm)	<u>4.97</u> (dBm) EIRP
output power	<u>2.22</u> (mW)	<u>80.0</u> (mW)	<u>3.14</u> (mW)
antenna gain	<u>0.5</u> (dBi)	<u>0</u> (dBi)	<u>0</u> (dBi)
antenna gain	<u>1.12</u> (numeric)	<u>1.00</u> (numeric)	<u>1.00</u> (numeric)
distance	<u>20</u> (cm)	<u>20</u> (cm)	<u>20</u> (cm)
duty cycle	<u>100</u> (%)	<u>100</u> (%)	<u>100</u> (%)
frequency	<u>2480</u> (MHz)	<u>2400</u> (MHz)	<u>13.56</u> (MHz)
MPE limit	<u>1.00</u> (mW/cm ²)	<u>1.00</u> (mW/cm ²)	<u>0.979</u> (mW/cm ²)
power density	<u>0.000495</u> (mW/cm ²)	<u>0.0159</u> (mW/cm ²)	<u>0.000625</u> (mW/cm ²)
margin	<u>33.1</u> (dB)	<u>18.0</u> (dB)	<u>32.0</u> (dB)

$$\text{Fractional MPE} = \text{PD1/L1} + \text{PD2/L2} + \text{PD3/L3} = 0.000495 + 0.0159 + 0.000625 / 0.979 = 0.0170 \ll 1$$

All transmitting antennas are greater than 5 cm from the hand and greater than 20 cm from the persons body.
All output powers are less than KDB 447498 4) c) iii) (1) threshold of $1000[f(\text{GHz})]^{-0.5}$ for hand-held and hand-operated devices.