

power density  $S = \frac{GP}{4\pi R^2}$

S = power density

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

	<b>900 MHz EUT</b>		<b>2.4 GHz WiFi</b>	
output power	<u>27.91</u>	(dBm)	<u>28.50</u>	(dBm)
output power	<u>618</u>	(mW)	<u>708</u>	(mW)
antenna gain	<u>7.15</u>	(dBi)	<u>5.5</u>	(dBi)
antenna gain	<u>5.188</u>	(numeric)	<u>3.548</u>	(numeric)
distance	<u>20</u>	(cm)	<u>20</u>	(cm)
duty cycle	<u>31.72</u>	(%)	<u>100</u>	(%)
frequency	<u>902</u>	(MHz)	<u>2400</u>	(MHz)
MPE limit	<u>0.601</u>	(mW/cm <sup>2</sup> )	<u>1.000</u>	(mW/cm <sup>2</sup> )
power density	<u>0.2023</u>	(mW/cm <sup>2</sup> )	<u>0.500</u>	(mW/cm <sup>2</sup> )
margin	<u>4.7305</u>	(dB)	<u>3.0127</u>	(dB)

combined = 0.336 + 0.500 = 0.836 < 1