

# Radio Frequency Exposure

## EUT INFORMATION

<b>EUT</b>	Scan Kiosk
<b>Frequency band(Operating)</b>	2.412 GHz ~ 2.462 GHz
<b>Antenna diversity</b>	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input checked="" type="checkbox"/> Tx/Rx diversity
<b>Max. output power</b>	16.43 dBm (43.95 mW)
<b>Antenna gain (Max)</b>	2.5 dBi

## TEST RESULT

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Average Time (minutes)
Limits For General Population / Uncontrolled Exposure				
300-1500	---	---	F/1500	30
1500-100,000	---	---	1.0	30

F = Frequency in MHz

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot R^2)$$

Where,

$P_d$  = power density in mW/cm<sup>2</sup>

$P_{out}$  = output power to antenna in mW

G = gain of antenna in linear scale

R = distance between observation point and center of the radiator in cm

Frequency Band (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
2412-2462	43.95	2.5	20	0.016	1.0