

RF Exposure Considerations for FCC ID: FCC ID: QVA-PIRCONNECT

The calculation of the MPE is as following:

Prediction of MPE limit at a prediction distance:

$$S = \frac{P.G}{4.\pi.R^2} = \frac{E.I.R.P}{4.\pi.R^2}$$

S: Power density (mW/cm²)

P: Peak output power at antenna terminal (mW)

G: Numerical Antenna gain

R: Distance of radiation to antenna (cm)

MPE calculation

<i>Frequency (MHz)</i>	<i>Maximum E.I.R.P. (mW)</i>	<i>R (cm)</i>	<i>Power Density S (mW/cm²)</i>	<i>MPE limit (mW/cm²)</i>	<i>% of limit</i>	<i>Limit (%)</i>	<i>Verdict</i>
2402 / 2480	2.0	20	0.0004	1.0	0.04	-	<i>Below MPE limit for uncontrolled exposure</i>
10531	18.2	20	0.00362	1.0	0.362	-	
<i>Simultaneous transmissions</i>				SUM =	0.402	100%	

Conclusion: Therefore the device complies with FCC's RF radiation exposure limits for general population for a mobile device.

Certified By

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