

**RF Exposure Considerations for FCC ID: YCP-MB211900**

**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/cm<sup>2</sup>)

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) (1)</i> | <i>R (cm)</i> | <i>Power Density S (mW/cm<sup>2</sup>)</i> | <i>MPE limit (mW/cm<sup>2</sup>)</i> | <i>% of limit</i> | <i>Limit (%)</i> | <i>Verdict</i>                                   |
|-----------------------------------|----------------------------------|---------------|--|--------------------------------------|-------------------|------------------|--|
| 2402-2480                         | 8.9                              | 20            | 0.00177                                    | 1                                    | 0.177             | 100%             | <i>Below MPE limit for uncontrolled exposure</i> |
| <i>Simultaneous transmissions</i> |                                  |               |  | <b>SUM =</b>                         | <i>N/A (2)</i>    | <b>100%</b>      |  |

(1): Power value is taken from EIRP (Conducted power + antenna gain)

(2): No simultaneous RF transmission

***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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