

**RF Exposure Considerations for FCC ID: YCP-MB213000**

**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

| Frequency (MHz)            | Maximum EIRP including tune-up tolerance (mW) (1) | R (cm) | Power Density S (mW/cm <sup>2</sup> ) | MPE limit (mW/cm <sup>2</sup> ) | % of limit | Limit (%) | Verdict                                   |
|----------------------------|---------------------------------------------------|--------|---------------------------------------|---------------------------------|------------|-----------|-------------------------------------------|
| 2402-2480                  | 15.7                                              | 20     | 0.00312                               | 1                               | 0.31       | 100%      | Below MPE limit for uncontrolled exposure |
| Simultaneous transmissions |                                                   |        |                                       | SUM =                           | N/A (2)    | 100%      |                                           |

(1): Power value is taken from EIRP (Max 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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FCC Registration Number: 0020356952 (FRN)

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