

RF EXPOSURE EVALUATION

Equipment under test: TPMS Wireless Repeater unit
FCC ID: 2A8SB31110
Test report reference: RRA-EMIESS22M181MAS-01A v0

MPE calculation

These equations are generally accurate in the far field of an antenna but will over predict power density in the near field, where they could be used for making a "worst case" prediction.

S = PG/4πR²

Where: S = power density (in appropriate units, e.g. mW/cm²)
P = power input to the antenna (in appropriate units e.g. mW)
G = power gain of the antenna in the direction of interest relative to the isotropic radiator
R = distance to the centre of radiation of the antenna (appropriate units e.g. cm)

Or

S = EIRP/4πR²

Where EIRP = equivalent isotropically radiated power

Calculation:

(Calculated for max. EIRP)

EIRP: **-24.8 (0.00325 mW)**

Calculated at distance of 20 cm:

Power density = 0.000013mW/cm²

Limit:

0.608mW/cm² is the reference level for G exposure according to Rule part 1.1310(e)

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