

RF EXPOSURE EVALUATION

Equipment under test: *EDGE DBD*

FCC ID: *2AUQC-EDGEDBD*

Test report reference: *RRA-EMIESS23E175DAV-02A 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.

$$S = PG/4\pi R^2$$

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

$$S = EIRP/4\pi R^2$$

Where EIRP = equivalent isotropically radiated power

Calculation:

Evaluated frequency: 919.187MHz

Transmitter power: +12.4dBm

Antenna gain: 5dBi

Calculated at distance of 20 cm:

Power density = 0.003 mW/cm²

Limit:

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

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