

RF EXPOSURE EVALUATION

Equipment under test: LoRa SPY 915 T1
 FCC ID: W4512267
 Test report reference: RCE-100-18-100848-1-A

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:

(Calculated for max. EIRP)

EIRP: +13.38 (21.78 mW)

Calculated at distance of 20 cm:

Power density = 0.0043 mW/cm²

Limit:

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

Ed.	Date	Modified page(s)	Written by		Technical Verification and Quality Approval	
			Name	Visa	Name	Visa
0	28/01/19	Creation	F. LHEUREUX Test Operator FL		B. Pellouin Radio Technical Manager 	

