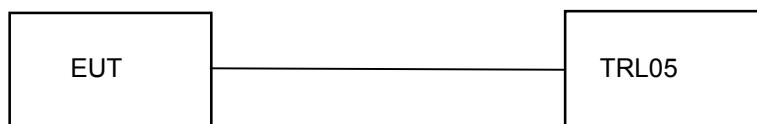


## RADIO FREQUENCY RADIATION EXPOSURE

### MPE calculation:

#### Test setup 1:



#### Formula:

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

S = Power Density (mW/cm<sup>2</sup>)

EIRP = Radiated power (mW)

R = distance for body (cm)

#### Calculation:

$$\begin{aligned} S &= 4350 / 4 \pi 35 \text{ mW/cm}^2 \\ S &= 0.282 \text{ mW/cm}^2 \end{aligned}$$

#### Notes:

1. The unit will be mounted at least 35cm away from the body.
2. The carrier power EIRP of 4350.0 mW was the worst case peak level measured.
3. Antenna gain of 0dBi stated by manufacturer.

#### Limit

The limit of Power density for the General Population/ Uncontrolled Exposure is f/1500 mW/cm<sup>2</sup>.

Where f = 446MHz – 464 MHz

$$\begin{aligned} \text{Limit} &= 446 / 1500 \text{ mW/cm}^2 \\ \text{Limit} &= 0.297 \text{ mW/cm}^2 \end{aligned}$$

#### Result

The EUT meets the 0.297 mW/cm<sup>2</sup> limit.