RF Exposure Evaluation

A calculation based on the FCC's Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields (Edition 97-01) appears below.

The highest antenna gain is used for this calculation.

Maximum EIRP = 9.55dBm + 5dBi = 14.55dBm = 28.5mW

The limit for General Population/Uncontrolled Exposure is

 $S [mW/cm^2] = 1.0$

The distance from the antenna at which this radiation level will be reached is

R=SQRT(EIRP/ 4π S)

R=SQRT($28.5 / (4\pi \times 1.0)$) = 1.5cm

RESULTS

The minimum distance from the antenna at which the power density is below the limit for General Population/Uncontrolled Exposure is 1.5cm.