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 = 15.15dBm + 3dBi = 18.15dBm = 65.3mW

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

$R = SQRT(EIRP/4\pi S)$

$R = SQRT(65.3 / (4\pi \times 1.0)) = 2.3cm$

RESULTS

The minimum distance from the antenna at which the power density is below the limit for General Population/Uncontrolled Exposure is 2.3cm.