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.

Maximum EIRP = 18.4 dBm = 69.2 mW

The limit for General Population/Uncontrolled Exposure is

S [mW/cm^2] = f/1500 = 902[MHz]/1500 = 0.6013

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

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

$R = SQRT(914.1 / (4\pi \times 0.6013))$ = 3.03cm

RESULTS

The minimum distance from the antenna at which the power density is below the limit for General Population/Uncontrolled Exposure is 3.03cm.