

Exhibit H: RF Exposure

FCC ID: OXZSTDPREVIEW



EXCELLENCE IN ELECTRONICS

Standard PreView RF Exposure Information
FCC ID: OXZSTDPREVIEW

1/8/03

Table 1 in 47 CFR 1.1310 defines the maximum permissible exposure (MPE) for the general population as $1\text{mW}/\text{cm}^2$. The exposure level at a 20 cm distance from the EUT's transmitting antenna is calculated using the general equation:

$$S = (PG)/4\pi R^2$$

Where: S = power density (mW/cm^2)

P = power input to the antenna (mW) = -30dBm or 0.001mW

G = linear power gain relative to an isotropic radiator = 1dBi

R = distance to the center of the radiation of the antenna (20 cm = limit for MPE estimates)

Solving for S, the maximum power densities 20 cm from the transmitting antennas are as follows:

$$S = (.001\text{mw}) * (1) / [4\pi * (20\text{cm})^2] = 0.2 \times 10^{-6} \text{ mW}/\text{cm}^2$$

As can be seen this is easily smaller than the maximum permissible exposure (MPE) for the general population of $1 \text{ mW}/\text{cm}^2$.