US Tech      11-0091
Client      Sypes Canyon
Issue Date      05-05-2011
Model:      SCC-001
**FCC ID:**      **ZBR001**
**IC:**      **9540A-001**

## Maximum Public Exposure to RF (MPE)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 1.0 mW/cm$^2$ at a distance, d, of 20 cm from the EUT.

## Antenna Gain = 5dBi

Peak Power (Watts) = 21.5 dBm (0.141 Watts) (from UST report 11-0013)
Gain of Transmit Antenna = 5.0 dB$_i$ = 3.16, numeric (from UST report 11-0013)
d = Distance = 20 cm = 0.2 m

$$S = (PG/ 4\pi d^2) = EIRP/4A = 0.141(3.16)/4*\pi*0.2*0.2$$
$$=0.4456/0.502 = 0.8876 \text{ W/m}^2$$
$$= (\text{W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2)$$
$$= 0.08876 \text{ mW/cm}^2$$

Which is << less than 1 mW/cm$^2$