PROJECT: 02U1295 ATHEROS AR5BCB-00021

MPE CALCULATION for 1.5 dBi ANTENNA

Formula used in the MPE Calculations:

 $E^{2/3770} = S, mW/cm2$ Pwatts*Ggain = 10^(PdBm-30+GdBi)/10) E, V/m = (Pwatts*Ggain*30)^.5/d, meters d = ((Pwatts*G*30)/3770*S))^0.5 ------ (A)

Since

Substitute these parameters into the A above, we have MPE safe distance d(cm) = 4.11

NOTE: For mobile or fixed location transmitters, minimum separation distance is 20 cm, even if calculations indicate MPE distance is less