MPE CALCULATION for Axesstel Inc. FCC ID:PH7ACWT1900

Formular 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

S (mW/cm^2) =1.00	from 1.1310 Table 1	
P (dBm) =26.9	EUT output power	
G (dBi) =2.0	EUT antenna gain	

Substitute these parameters into the A above, we have

MPE safe distance d (cm) =   7.8

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