APPLICANT: OTC Wireless FCC ID: MKZ0207W0DU09

## MPE CALCULATION FOR 9 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

S (mW/cm2) = 1.00 from 1.1310 Table 1 P (dBm) = 15.80 EUT output power G (dBi) = 9.00 EUT antenna gain

Substitute these parameters into the A above, we have MPE safe distance d(cm) = 4.90

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