MPE calculation

Maximum Power output: 91.2mW (19.6dBm)

Max Antenna gain,: 2.0 dBi

One-half power: 16.6 dBm

Maximum EIRP from transmit antenna is 16.6 + 1.4 = 18.0 dBm EIRP

To determine the overall exposure at 20 cm from the EUT.

The field strength contribution from each antenna is calculated using the equation

E, $V/m = (30*EIRP,watts)^{0.5}$ /separation distance

Maximum EIRP from transmit antenna is 18.0 dBm EIRP = 0.0456 watt EIRP

S, $mW/cm^2 = E/3770$, E in V/m

Total exposure at 20cm: 0.0015 mW.cm²

The duty cycle is 100% the final exposure at 20cm: 0.0015 mW.cm^2

FCC Limit: 1.0 mW/cm²