FCC ID: SZ9TMWIFI440Z

Prediction of MPE limit at a given distance

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = \frac{PG}{4\pi R^2}$$

where: S = power density
P = power input to the antenna
G = power gain of the antenna in the direction of interest relative to an isotropic radiator
R = distance to the center of radiation of the antenna

Maximum peak output power at the antenna terminal:	20.54 (dBm)
Maximum peak output power at the antenna terminal:	113.2400363 (mW)
Antenna gain(typical):	-2.53 (dBi)
Maximum antenna gain:	0.558470195 (numeric)
Prediction distance:	20 (cm)
Prediction frequency:	2450 (MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1 (mW/cm^2)
Power density at prediction frequency:	0.012581 (mW/cm^2)

Therefore device complies with FCC RF radiation exposure limits
for general population in mobile exposure category (distance > 20cm)