

Prediction of MPE limit at a given distance

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

S = power density

P = power input to the antenna

G = antenna gain

R = distance

| | | |
|-------------------------|--------------|-----------------------|
| Conducted output power: | 17.1 | (dBm) |
| Tune up tolerance | 0.00 | (dB) |
| Number of carriers | 1 | (N) |
| | 51 | (mW) |
| | 0.051 | (W) |
| Antenna gain: | 1.7 | (dBi) |
| Maximum antenna gain: | 1.48 | (numeric) |
| EIRP | 0.076 | (W) |
| ERP | 0.046 | (W) |
| Distance: | 20 | (cm) |
| Duty Cycle: | 100 | (%) |
| Frequency: | 1920 | (MHz) |
| MPE Limit: | 1.000 | (mW/cm ²) |
| Power density: | 0.015 | (mW/cm ²) |
| | 0.15 | (W/m ²) |
| Margin | 18.2 | (dB) |