## Prediction of MPE limit at a given distance

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

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

| | |
|---|---|
| Equipment | Laser Printer CM-600d |
| Manufacturer | Konicaminolta Sensing Inc. |

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 antenna input terminal: | 2.85 | (dBm) |
| Maximum peak output power at antenna input terminal: | 1.93E+00 | (mW) |
| Antenna gain(typical): | 2.14 | (dBi) |
| Maximum antenna gain: | 1.636816521 | (numeric) |
| Prediction distance: | 20 | (cm) |
| Prediction frequency: | 2440 | (MHz) |
| MPE limit for uncontrolled exposure at prediction frequency: | 1.00245043 | (mW/cm^2) |
| Power density at prediction frequency: | 6.277E-04 | (mW/cm^2) |
| Maximum allowable antenna gain: | 34.17332762 | (dBi) |
| Margin of Compliance: | 32.03332762 | |