

Appendix G Continued

MPE Calculation

47 CFR §§1.1310

Prediction of MPE limit at a given distance

$$S = \frac{EIRP}{4\pi R^2} \text{ re - arranged } R = \sqrt{\frac{EIRP}{S4\pi}}$$

where:

S = power density

R = distance to the centre of radiation of the antenna

EIRP = EUT Maximum power

Result

Prediction Frequency (MHz)	Maximum EIRP (W)	Power density limit (S) (mW/cm ²)	Distance (R) cm Required to be less than 1 mW/cm ²
2425	0.0023	1	0.02
2450	0.0022	1	0.02
2475	0.0021	1	0.02