

### Limits for Occupational/Controlled Exposure

Frequency (f) (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm <sup>2</sup> )	Averaging Time ( E  <sup>2</sup> ,  H  <sup>2</sup> or S) (minutes)
470	--	--	1.5667	6

### MPE Calculation

MPE(m)	Antenna Gain in dBi							
Conducted Power (Watt)	0	1	2	3	4	5	10	15
1.26	0.08	0.09	0.1	0.11	0.13	0.14	0.25	0.45
1	0.07	0.08	0.09	0.1	0.11	0.13	0.23	0.4
5	0.16	0.18	0.2	0.23	0.25	0.28	0.5	0.9
100	0.71	0.8	0.9	1.01	1.13	1.27	2.25	4.01

Distance from antenna in meters

$$E(V/m) = \frac{\sqrt{30 \times P \times G}}{d}$$

$$\text{Power density: } P_d(mW/cm^2) = \frac{E^2}{3770}$$

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