



**FCCID: 2AFCS-PAL20**

### 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

Prediction Frequency MHz	Conducted Output Power dBm	Max Antenna Gain dBi	Distance cm	Power Density mW/cm <sup>2</sup>	Limit mW/cm <sup>2</sup>
2405	10.9	3	20	0.0049	1.00
2440	10.3	3	20	0.0043	1.00
2475	10.4	3	20	0.0044	1.00

Conclusion: Therefore our device complies with FCC's RF radiation exposure limits for general population without SAR evaluation with at least 20cm separation from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.