## § 15.247(i) Maximum Permissible Exposure

RF Exposure Requirements: §1.1307(b)(1) and §1.1307(b)(2): Systems operating under the provisions of

this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's

guidelines.

RF Radiation Exposure Limit: §1.1310: As specified in this section, the Maximum Permissible Exposure

(MPE) Limit shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in Sec. 1.1307(b), except in the case of portable devices which shall be evaluated according to the

provisions of Sec. 2.1093 of this chapter.

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

 $S = PG / 4\pi R^2 \qquad \text{ or } \qquad R = \int\! PG / 4\pi S$ 

where,  $S = Power Density (mW/cm^2)$ 

P = Power Input to antenna (mW)

G = Antenna Gain (dBi numeric)

FCC									
Frequency (MHz)	Con. Pwr. (dBm)	Con. Pwr. (mW)	Ant. Gain (dBi)	Ant. Gain numeric	Pwr. Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )	Margin	Distance (cm)	Result
2480	9.167	8.255	3	1.995	0.00328	1	0.99672	20	Pass
2437	10.31	10.74	2.5	1.778	0.0038	1	0.9962	20	Pass

0.00708