

Prediction of MPE limit at a given distance

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

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

Contains FCC ID QIPTC65I

S = power density

P = output power

G = antenna gain

R = distance

		22H		24E	
	Output Power	32.40	(dBm)	29.29	(dBm)
	Output Power	1738	(mW)	850	(mW)
	Antenna Gain	0	(dBi)	0	(dBi)
	Antenna Gain	1.00	(numeric)	1.00	(numeric)
	Distance	20	(cm)	20	(cm)
	Duty Cycle:	100	(%)	100	(%)
	Frequency	848.8	(MHz)	1900	(MHz)
MPE Limit General Public		0.566	(mW/cm^2)	1.000	(mW/cm^2)
	Power Density	0.346	(mW/cm^2)	0.169	(mW/cm^2)
	Margin	2.14	(dB)	7.72	(dB)
2.1091	EIRP	32.40	(dBm)	29.29	(dBm)
	ERP	30.26	(dBm)	27.15	(dBm)
	ERP	1.06	(W)	0.52	(W)
	ERP Limit	1.5	(W)	3	(W)
	Margin	1.50	(dB)	7.62	(dB)
22.913	ERP Limit	7	(W)		
	ERP	1.06	(W)		
24.232	EIRP Limit			2	(W)
	EIRP			0.85	(W)
	Margin	8.19	(dB)	3.716	(dB)