<u>Prediction of MPE limit at a given distance</u> Equation from page 18 of OET Bulletin 65, Edition 97-01

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

S = power density

P = output power

G = antenna gain

R = distance

		22H		24E	
	Output Power_	24.74	(dBm)	24.37	(dBm)
	Output Power	298	(mW)	274	(mW)
	Antenna Gain	5.12	(dBi)	6.12	(dBi)
Antenna Gain		3.25	(numeric)	4.09	(numeric)
	Distance	20	(cm)	20	(cm)
	Duty Cycle:	100	(%)	100	(%)
	Frequency	825	(MHz)	1900	(MHz)
MPE Limit (General Public	0.550	(mW/cm^2)	1.000	(mW/cm^2)
	Power Density	0.193	(mW/cm^2)	0.223	(mW/cm^2)
	Margin	4.56	(dB)	6.52	(dB)
2.1091	EIRP	29.86	(dBm)	30.49	(dBm)
	ERP	27.72	(dBm)	28.35	(dBm)
	ERP	0.59	(W)	0.68	(W)
	ERP Limit	1.5	(W)	3	(W)
	Margin	4.04	(dB)	6.42	(dB)
00.040	EDD Limit	-	(14/)		
22.913	ERP Limit	7	(W)		
0.4.000	ERP	0.59	(W)		(1.5.1)
24.232	EIRP Limit			2	(W)
	EIRP			1.12	(W)
	Margin	10.73	(dB)	2.520	(dB)