Nemko

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

	800MHz	850MHz	1900MHz	
Maximum peak output power at antenna input terminal:	34.00	34.00	37.00	(dBm)
Maximum peak output power at antenna input terminal:	2511.886	2511.8864	5011.8723	(mW)
Antenna gain(typical):	0	0	0	(dBi)
Maximum antenna gain:	1	1	1	(numeric)
Prediction distance:	35	35	35	(cm)
Prediction frequency:	850	850	850	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.533333	0.5333333	0.53333	(mW/cm^2)
Power density at prediction frequency:	0.163175	0.16318	0.32558	(mW/cm^2)

Multiple transmitter Calculation: (Sum of all fractional Contributions)

0.30595	+	0.30595	+	0.61046	=	**0.91641**	<1.0