Prediction of MPE limit at a given distance

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

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

Downlink Indoor Condition, 20 cm distance

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

Maximum peak output power at antenna input terminal:	30.91	(dBm)
Maximum peak output power at antenna input terminal:	1233.104833	(mW)
Antenna gain(typical):	2	(dBi)
Maximum antenna gain:	1.584893192	(numeric)
Prediction distance:	20	(cm)
Prediction frequency:	1930	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)
Power density at prediction frequency:	0.388803	(mW/cm^2)
Maximum allowable antenna gain:	6.102698554	(dBi)
Margin of Compliance:	4.102698554	

Prediction of MPE limit at a given distance

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

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

Downlink Outdoor Condition, 1 meter distance

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

Maximum peak output power at antenna input terminal:	30.91	(dBm)
Maximum peak output power at antenna input terminal:	1233.104833	(mW)
Antenna gain(typical):	10.1	(dBi)
Maximum antenna gain:	10.23292992	(numeric)
Prediction distance:	100	(cm)
Prediction frequency:	1930	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)
Power density at prediction frequency:	0.100413	(mW/cm^2)
Maximum allowable antenna gain:	20.08209864	(dBi)
Margin of Compliance:	9.98209864	

Prediction of MPE limit at a given distance

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

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

Uplink with 1 meter distance

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

Maximum peak output power at antenna input terminal:	30.26	(dBm)
Maximum peak output power at antenna input terminal:	1061.695557	(mW)
Antenna gain(typical):	10.1	(dBi)
Maximum antenna gain:	10.23292992	(numeric)
Prediction distance:	100	(cm)
Prediction frequency:	1915	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	1	(mW/cm^2)
Power density at prediction frequency:	0.086455	(mW/cm^2)
Maximum allowable antenna gain:	20.73209864	(dBi)
Margin of Compliance:	10.63209864	