Prediction of MPE limit at a given distance

Exposure imit according to FCC CFR 47part 1, §1.1307, §1.1310
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 radi
R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	23.70	(dBm)
Maximum peak output power at antenna input terminal:	234.4228815	(mW)
Antenna gain(typical):	-5.6	(dBi)
Maximum antenna gain:	0.27542287	(numeric)
Time Averaging:	100	(%)
Prediction distance:	20	(cm)
Prediction frequency:	180	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.2	(mW/cm^2)

Power density at prediction frequency:		0.012845	(mW/cm^2)	
Margin of compliance:		-11.9	(dB)	
	This equates to	0.128448828	W/m^2	PASS
For information	This equates to	6.958822314	V/m	

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where: S = power density
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R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	24.90	(dBm)
Maximum peak output power at antenna input terminal:	309.0295433	(mW)
Antenna gain(typical):	-1.3	(dBi)
Maximum antenna gain:	0.741310241	(numeric)
Time Averaging:	100	(%)
Prediction distance:	20	(cm)
Prediction frequency:	566	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.366666667	(mW/cm^2)
Power density at prediction frequency:	0.045575	(mW/cm^2)
Margin of compliance:	-9.1	(dB)
This equates to	0.455753639	W/m^2 PASS
For information This equates to	13.10797932	V/m

Prediction of MPE limit at a given distance

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

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 radi
R = distance to the center of radiation of the antenna

Maximum peak output power at antenna input terminal:	18.10	(dBm)
Maximum peak output power at antenna input terminal:	64.5654229	(mW)
Antenna gain(typical):	4.2	(dBi)
Maximum antenna gain:	2.630267992	(numeric)
Time Averaging:	100	(%)
Prediction distance:	20	(cm)
Prediction frequency:	686	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:	0.433333333	(mW/cm^2)

Power density at prediction frequency:		0.033785	(mW/cm^2)	
Margin of compliance:		-11.1	(dB)	
	This equates to	0.33785484	W/m^2	PASS
For information	This equates to	11.2858883	V/m	