Prediction of MPE Limit
47 CFR § 2.1091

$$S_{20} = \frac{P_A G_N}{4\pi R_{20}^2} \qquad S_C = \frac{P_A G_N}{4\pi R_C^2} \qquad R_C = \sqrt{\frac{P_A G_N}{4\pi S_L}}$$

$$S_L = \frac{f}{1500} \text{ (mW/cm}^2\text{)}$$

S_{20} = Power Density of the Device at 20cm
S_L = Power Density Limit
S_C = Power Density of the Device at the Compliance Distance R_C
R_{20} = 20cm
R_c = Minimum Distance to the Radiating Element to Meet Compliance
P_T = Power Input to Antenna
P_A = Adjust Power
G_N = Numeric Gain of the Antenna
f = Transmit Frequency

Transmit Duty Cycle = 100%

Use Group = General Popuation

Transmit Duty Cycle:	100.00	(%)
Tx Frequency (f):	787.00	(MHz)
RF Power at Antenna Input Port (P_T):	400.00	(mW)
Antenna Gain:	16.15	(dBi)
Numeric Antenna Gain (G_N):	41.21	(numeric)
Cable or Other Loss:	0.00	(dB)
Duty Cycle/Loss Adjusted Power (P_A):	400.00	(mW)

S_L =	0.525	(mW/cm^2)
S_{20} at 20cm =	3.279	(mW/cm^2)
R_C =	50.0	(cm)
S_C =	0.52	(mW/cm^2)

RESULT	50cm