Global EMC

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

Maximum peak output power at antenna input terminal:		-0.60	(dBm)
Maximum peak output power at antenna input terminal:		0.87096359	(mW)
Antenna gain(typical):		2.4	(dBi)
Maximum antenna gain:		1.737800829	(numeric)
Time Averaging:		100	(%)
Prediction distance:		20	(cm)
Prediction frequency:		2480	(MHz)
MPE limit for uncontrolled exposure at prediction frequency:		1	(mW/cm^2)
Power density at prediction frequency:		0.000301	(mW/cm^2)
Margin of compliance:		-35.2	(dB)
	This equates to	0.003011134	W/m^2 PASS
For information	This equates to	1.065456559	V/m

Note: This device does not exceed the 60 / f (GHz) in mW limit as per FCC KDB 447498 2(a)(i), so it is allowable to be used in portable exposure conditions with no restrictions on host platforms