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:

 $S = power \ density \\ P = power \ input \ to \ the \ antenna \\ G = power \ gain \ of \ the \ antenna \ in \ the \ direction \ of \ interest \ relative \ to \ an \ isotropic \ radiator \\ R = distance \ to \ the \ center \ of \ radiation \ of \ the \ antenna$

2AFTLSH1	Maximum peak output power at the antenna terminal:	14.30 (dBm)
	Maximum peak output power at the antenna terminal:	26.91534804 (mW)
	Antenna gain(typical):	-2 (dBi)
	Maximum antenna gain:	0.630957344 (numeric)
	Prediction distance:	20 (cm)
	Prediction frequency:	915 (MHz)
	MPE limit for uncontrolled exposure at prediction frequency:	0.6 (mW/cm^2)
	Power density at prediction frequency:	0.003379 (mW/cm^2)
	Maximum allowable antenna gain:	20.49421106 (dBi)
VEEGETIPAGE		to column
XFF35Z7PA20	Maximum peak output power at the antenna terminal:	19.20 (dBm)
	Maximum peak output power at the antenna terminal:	83.17637711 (mW) 0.5 (dBi)
	Antenna gain(typical): Maximum antenna gain:	1.122018454 (numeric)
	Prediction distance:	20 (cm)
	Prediction distance.	2400 (MHz)
	MPE limit for uncontrolled exposure at prediction frequency:	1 (mW/cm^2)
	INFE IIIIII TOI Uncontrolled exposure at prediction frequency.	I (IIIW/CIIF2)
	Power density at prediction frequency:	0.018567 (mW/cm^2)
	1 Ower density at prediction frequency.	0.010007 (IIIW/CIIF 2)
	Maximum allowable antenna gain:	17.81269855 (dBi)

Z64-WL18SBMOD	Σ of (Power Density / Limit) of WLAN and BLE @ 20cm and Prediction Frequencies of 2412 and 2402MHz respectively	0.014

	(power density)	(MPE limit)	(pwr density / MPE limit)
	mW/cm^2	mW/cm^2	numeric
915 MHz radio 2AFTLSH1	0.003379	0.6000	0.005631
2.4GHz radio XFF35Z7PA20 (used worst case)	0.018567	1.0000	0.018567
2.4GHz radio Z64-WL18SBMOD	0.014000	1.0000	0.014000

SUM (Power Density / Limit): OVERALL LIMIT (numeric): RESULT: 0.038197 1.0 Pass