VX-4101/4201-D0-10 RF Exposure Calculations

1) Calculation/10 W

A:	Frequency Band	150 MHz
B:	RF Exposure Limit	0.2 mW/cm^2 = 2 W/m^2
C:	RF Power Output	10 W
D:	Antenna Gain	0 dBd (numeric gain of 1.64)
E:	Duty Cycle	50 % = 0.5

Safe Distance	= SQRT (C x D x E/4π x B)
(@ Above condition)	= SQRT (10 x 1 x 0.5/4π x 2) = 0.57 m

2) Safe Distance (@ VX-4204-D0-50 (50W), Test Report [MFA p0340005, d0350004])

F:	Safe Distance	= 0.6 m

3) RF Exposure (@ F, 0.6 m)

G:	RF Exposure	= C x D x E/4π x F^2
		= 10 x 1.64 x 0.5/4π x 0.6^2 = 1.11 W/m^2
		= 0.18 mW/cm^2

Therefore, G < B