Maximum Permissible Exposure (MPE) Evaluation

Applicant	:	JVC KENWOOD Corporation
Equipment	:	VHF DIGITAL TRANSCEIVER
Model No.	:	NX-5600H-F3, VM5630H-F3
FCC ID	:	K44499100

MPE Calculations

FCC Part 1.1310

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

$$R = \sqrt{\frac{PG}{4\pi S}}$$

Where:

S=Power density (in appropriate units, e.g. mW/cm^2)

P=Power input to antenna (in appropriate units, e.g., mW)

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 (appropriate units, e.g., cm)

Tx Frequency=	39 to 50	(MHz)	: FCC	
Maximum peak power=	50.49	(dBm)	(=112W)	
Antenna gain=	2.15	(dBi)		
S=	0.20	(mW/cm^2)	(Uncontrolled Environment)	
P=	56000.00	(mW)	(=Maximum peak power x Dutycycle50%)	
G=	1.64	(numeric)		
R=	191.19	(cm)		

Calculated minimum separation distance from antenna : 191.19 (cm)