



Total Quality. Assured.

Maximum Permissible Exposure (MPE) Evaluation

Applicant : JVCKENWOOD Corporation
 Equipment : UHF DIGITAL TRANSCEIVER
 Model No. : NX-5800H-F2
 FCC ID : K44499301

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/cm²)

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=	406.1 to 470	(MHz)	: FCC
Maximum peak power=	50.00	(dBm)	(=100W)
Antenna gain=	2.15	(dBi)	
S=	0.27	(mW/cm ²)	(Uncontrolled Environment)
P=	50000.00	(mW)	(=Maximum peak power x Dutycycle50%)
G=	1.64	(numeric)	
R=	155.28	(cm)	

Calculated minimum separation distance from antenna : 155.28 (cm)