

Maximum Permissible Exposure (MPE) Evaluation

Applicant : JVC KENWOOD Corporation
Equipment : 800MHz DIGITAL TRANSCEIVER
Model No. : NX-3920G-K
FCC ID : K44502600

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=	806 to 824 , 851 to 869 (MHz)	: FCC
Maximum peak power=	41.90 (dBm)	(=15.5W)
Antenna gain=	2.15 (dBi)	
S=	0.54 (mW/cm ²)	(Uncontrolled Environment)
P=	7750.00 (mW)	(=Maximum peak power x Dutycycle50%)
G=	1.64 (numeric)	
R=	43.39 (cm)	

P = Value calculated according to CFR Part 90.205(s)

Calculated minimum separation distance from antenna : 43.39 (cm)