

## **Maximum Permissible Exposure (MPE) Evaluation**

Applicant : JVC KENWOOD Corporation Equipment : UHF DIGITAL BASE-REPEATER

Model No. : NXR-5800-K3 FCC ID : K44474601

## **MPE Calculations**

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<sup>2</sup>)

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)

Calculated minimum separation distance from antenna: 120.28 (cm)