

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

Applicant :Kenwood Corporation

Equipment :UHF DIGITAL REPEATER

Model No. :TKR-5800 FCCID :K4437144110

## **MPE Calculations**

According to the OET Bulletin 65 (Edition 97-01)

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

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

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)

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

Calculated minimum separation distance from antenna: 36.13 (cm)