



Maximum Permissible Exposure (MPE) Evaluation

Applicant : JVC KENWOOD Corporation
Equipment : VHF DIGITAL TRANSCEIVER with Bluetooth
FCC Model No. : NX-5700-K, NX-5700-F
IC Model No. : NX-5700-K
FCC ID : K44471100
IC CN and UPN : 282F-471100

MPE Calculations

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

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

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= 2402 to 2480 [MHz]

Maximum peak power= 0.99 [dBm]
Antenna gain= 1.69 [dBi] : From Test Report No.: 14100003JMA-001

P= 1.26 [mW]
G= 1.48 [numeric]
R= 20.00 [cm]

Calculated Power density : 0.0004 [mW/cm²]