Applicant: SHENZHEN HYT SCIENCE&TECHNOLOGY CO., LTD.

Equipment: PORTABLE REPEATER

Model No.: TR-50V

FCC ID: R74TR-50V

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^2)
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= 440 MHz to 470 MHz

Maximum Peak Power= 36.99 dBm (5 W)

Antenna Gain= 2 dBi

S= 1 mW/cm2

P= 3000 mW

G= 1.58

R= 19.42 cm

Calculated Minimum Separation distance from Antenna: 19.42 cm