

US Tech
Test Report:
Date:
Model(s):
Customer:

FCC ID: WRH-ITVM01
10-0180
July 22, 2011
PAT
Scientific Games International

Maximum Public Exposure to RF (MPE)

The maximum exposure level to the public from the RF power of the EUT shall not exceed a power density, **S**, of 0.60 mW/cm² at a distance, d, of 20 cm from the EUT.

EUT Antenna= 5 dBi

Peak Power (Watts) = 0.0033m (from Table 5 of Test Report)
Gain of Transmit Antenna = 5 dB_i = 3.162, numeric (from Table 4 of Test Report)
d = Distance = 20 cm = 0.20 m

$$\begin{aligned} \mathbf{S} &= (PG / 4\pi d^2) = \text{EIRP}/4A = 0.0033m (3.162)/4\pi \cdot 0.20 \cdot 0.20 \\ &= 0.0104m/0.502 = 0.0000207 \text{ W/m}^2 \\ &= (\text{W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= 0.00000207 \text{ mW/cm}^2 \end{aligned}$$

which is << less than 0.60 mW/cm²