

US Tech
Test Report:
Date:
Model(s):
FCC ID:
IC:
Customer:

FCC Part 15.249/ RSS 210
14-0010
February 12, 2014
ESTIMOTE REV.D3.3
2ABP2-EST0114
11753A-EST0114
Estimate

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 1 mW/cm^2 at a distance, d , of 2.5 cm from the EUT.

Therefore, for:

Highest Gain Antenna (Trace Monopole) = 0.0 dBi

Peak Power (Watts) = 0.0025 (Manufacture's claimed highest output power)
Gain of Transmit Antenna = $0.0 \text{ dBi} = 1.0$, numeric (from Table 3 of Test Report)
 d = Distance = 2.5 cm = 0.025 m

$$\begin{aligned} S &= (PG / 4\pi d^2) = \text{EIRP} / 4A = 0.0025(1.0) / 4\pi * 0.025^2 \\ &= 0.0025 / 0.0079 = 0.3165 \text{ W/m}^2 \\ &= (\text{W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= 0.03165 \text{ mW/cm}^2 \end{aligned}$$

which is \ll less than 1.0 mW/cm^2