

US Tech Test Report:  
FCC ID:  
Test Report Number:  
Issue Date:  
Customer:  
Model:

FCC Part 15 Certification/ RSS 247  
2AMOW-AR002HLR  
17-0276  
October 2, 2017  
Sanitag Technologies Corp  
AR-002-HLR

### **Maximum Public Exposure to RF (MPE) CFR 15.247 (i), CFR 1.1310 (e)**

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<sup>2</sup> at a distance, d, of 20 cm from the EUT.

Therefore, for:

Peak Power (dBm) = 21.75 dBm  
Peak Power (Watts) = 0.150 W  
Gain of Transmit Antenna = 2.0 dBi = 1.58, numeric  
d = Distance = 20 cm = 0.2 m

$$\begin{aligned} S &= (PG / 4\pi d^2) = EIRP / 4\pi = 0.150(1.58) / 4\pi \cdot 0.2^2 \\ &= 0.2370 / 0.5030 = 0.4712 \text{ W/m}^2 \\ &= (0.4712 \text{ W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= 0.04712 \text{ mW/cm}^2 \end{aligned}$$

which is << less than 1 mW/cm<sup>2</sup>