

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

FCC Part 15 Certification/ RSS 247
2AMOW-AC001LAN
17-0278
October 2, 2017
Sanitag Technologies Corp
AC-001-LAN

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/cm² at a distance, d, of 20 cm from the EUT.

Therefore, for:

Peak Power (dBm) = 20.32 dBm
Peak Power (Watts) = 0.108 W
Gain of Transmit Antenna = 2.0 dBi = 1.58, numeric
d = Distance = 20 cm = 0.2 m

$$\begin{aligned} \mathbf{S} &= (PG/4\pi d^2) = \text{EIRP}/4A = 0.108(1.58)/4*\pi*0.2*0.2 \\ &= 0.1706/0.5030 = 0.3392 \text{ w/m}^2 \\ &= (0.3392 \text{ W/m}^2) (1\text{m}^2/\text{W}) (0.1 \text{ mW/cm}^2) \\ &= 0.03392 \text{ mW/cm}^2 \end{aligned}$$

which is << less than 1 mW/cm²