

## **RF Exposure**

FCC ID: 2A27RS100  
Test Requirement: FCC 47CFR 15.247(i)  
Test Date: 2021-09-29  
Mode of Operation: **Tx** mode

### **Test Method:**

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines.

### **Test Results:**

The EUT complied with the requirement(s) of this section.

EUT meets the requirements of these sections as proven through MPE calculation

The MPE calculation for EUT @ 20cm

Based on the highest P =0.415 mW

$$\begin{aligned} P_d &= P_G / 4\pi R^2 = (0.415 \times 2.18) / 12.566 \times (20)^2 \\ &= (0.9047) / 12.566 \times 400 = 0.9047 / 5026.4 \\ &= 0.00018 \text{ mW/cm}^2 \end{aligned}$$

where:

\* $P_d$  = power density in mW/cm<sup>2</sup>

\* G = Antenna numeric gain (2.18); Log G = g/10 ( g = 3.38dBi ).

\* P = Conducted RF power to antenna (0.415 mW).

\* R = Minimum allowable distance.(20 cm)

\*The power density  $P_d = 0.00018 \text{ mW/cm}^2$  is less than 1 mW/cm<sup>2</sup> (listed MPE limit)

\*The SAR evaluation is not needed ( this is a desk top device, R> 20 cm )

\* The EUT( antenna ) must be 0.2 meters away from the General Population.