

## **RF Exposure**

Test Requirement: FCC 47CFR 15.247(i)  
Test Date: 2018-12-26  
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

For Bluetooth DSS:

Based on the highest P = 0.393 mW

$$\begin{aligned} P_d &= PG / 4\pi R^2 = (0.393 \times 0.87) / 12.566 \times (20)^2 \\ &= (0.34) / 12.566 \times 400 = 0.34 / 5026.4 \\ &= 0.000068 \text{ mW/cm}^2 \end{aligned}$$

where:

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

\* G = Antenna numeric gain (0.87); Log G = g/10 (g = -0.58dBi ).

\* P = Conducted RF power to antenna (0.393 mW).

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

\*The DSS power density Pd = 0.000068 mW/cm<sup>2</sup> 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.