

**RF Exposure**

HMD19110001

Test Requirement: FCC 47CFR 15.247(i)  
Test Date: 2019-11-01  
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.

This evaluation used FCC 47CFR 2.1091 to perform.

**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

The power tune up tolerance is  $\pm 1.0\text{dBm}$

Based on the highest  $P = -1.083 + 1 = -0.083\text{dBm}$   
 $= 0.981\text{ mW}$

$$\begin{aligned} P_d &= PG / 4\pi R^2 = (0.981 \times 1.995) / 12.566 \times (20)^2 \\ &= (1.957) / 12.566 \times 400 = 1.957 / 5026.4 \\ &= 0.000389\text{mW/cm}^2 \end{aligned}$$

where:

\* $P_d$  = power density in  $\text{mW/cm}^2$

\*  $G$  = Antenna numeric gain (1.995);  $\text{Log } G = g/10$  (  $g = 3\text{dBi}$  ).

\*  $P$  = Conducted RF power to antenna (0.779 mW).

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

\*The power density  $P_d = 0.000389\text{ mW/cm}^2$  is less than  $1\text{ mW/cm}^2$  (listed MPE limit)

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

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