RF Exposure

HMD21040002

Test Requirement:	FCC 47CFR 15.247(i)
Test Date:	2021-04-20
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 Tolerance Power =0.36 mW
Pd = PG/ 4pi*R^2 = (0.36 x 0.50)/12.566* $(20)^2$
= (0.180)/12.566x 400
= 0.000036mW/cm^2
where:
*Pd = power density in mW/cm^2
* G = Antenna numeric gain (0.50); Log G = g/10 (g = -3dBi).
*Tolerance Range(-0.5, 0.5)dB
* P = Tolerance Power (0.36 mW).
* R = Minimum allowable distance.(20 cm)
*The power density Pd = 0.000101 mW/cm^2 is less than 1 mW/cm^2 (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.