RF Exposure

Test Requirement:	FCC 47CFR 15.247(i)
Test Date:	2020-12-17
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 =0.977 mW

$$Pd = PG/4pi*R^2 = (0.977 \times 0.875)/12.566* (20)^2$$
$$= (0.855)/12.566 \times 400 = 0.5925 /5026.4$$
$$= 0.00017 mW/cm^2$$

where:

*Pd = power density in mW/cm2

* G = Antenna numeric gain (0.977); Log G = g/10 (g = -0.58dBi).

*Tolerance Range(-0.5, 0.5)dB

* P = Tolerance Power (0.977mW).

* R = Minimum allowable distance.(20 cm)

*The power density $Pd = 0.00017$ 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.