RF Exposure

Test Requirement:	FCC 47CFR 15.247(i)
Test Date:	2018-06-15
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
Based on the highest P =0.778 mW

The power tune up tolerance is -2.09±1.0dBm
Max. duty factor is 100%

$$Pd = PG/ 4pi*R^2 = (0.778x\ 0.63)/12.566* (20)^2$$
$$= (0.49014)/12.566x\ 400= 0.19014\ /5026.4$$
$$= 0.0000975mW/cm^2$$

where:
*Pd = power density in mW/cm2
* G = Antenna numeric gain (0.63); Log G = g/10 (g =-2dBi).
* P = Conducted RF power to antenna (0.778mW).
* R = Minimum allowable distance.(20 cm)

*The power density Pd = 0.0000785 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.