FCC ID: LLB2019006

This calculation is based on the highest EIRP possible from the EUT considering maximum power and antenna gain. The highest output power of the EUT is 0.794 W and the max gain of the antenna is 3 dBi.

There is a firmware control duty cycle. The firmware is set to limit duty cycle at 40% duty cycle or less in any given 6-minute period. In most cases, the duty cycle is much less than 40%. For all calculations, 40% will be used as a worst-case in any given 6-minute period, as this is a worst case.

1.0 RF EXPOSURE PER FCC 1.1310

| | Max Power | Max Ant | Duty | EIRP | (S) GP Limit | Declared Minimum seperation | EUT power Density | |
|-----|--------------|----------|---------|-------|-----------------|-----------------------------|----------------------|--------|
| MHz | dBm | Gain dBi | Cycle % | Watts | mW/cm^2 | Distance (cm) | mW/cm2 | Result |
| 450 | 29.00 | 3 | 40 | 0.634 | 0.300 | 20.0 | 0.126 | Pass |
| 460 | 28.85 | 3 | 40 | 0.612 | 0.307 | 20.0 | 0.122 | Pass |
| 470 | 28.90 | 3 | 40 | 0.620 | 0.313 | 20.0 | 0.123 | Pass |

Notes on the above table:

- a. S is the power density General Population Limit from FCC 1.1310 Table 1
- b. EIRP Power is the Peak Effective Radiated Power.
 - EIRP = (Average Conducted Power + Antenna gain) * Duty Cycle.

POWER DENSITY

Power density is given by:

S = EIRP / (4 * Pi * D^2)

Where

S = Power density in mW/cm² EIRP = Equivalent Isotropic Radiated Power in mW D = Separation distance in cm

Since the calculated power density is less than the limit, this product fully meets the OET 65 requirements for the general population.