

## RF Exposure

FCC ID: LLB2020006

These calculations are based on the highest EIRP possible from the EUT considering maximum power output and antenna gain or the highest EIRP possible from the EUT, measured in the radiated mode. 100 % duty cycle for the calculations even though the duty cycle is lower in actual use.

### 1.0 RF EXPOSURE PER FCC 1.1310

| Band      | Freq. (MHz) | Max Power (dBm) | Max Power (mW) | Max Ant Gain (dBi) | Max Ant Gain above isotropic (numeric) | Duty Cycle % | Max EIRP (mW) | Power Density at 20 cm (mW/cm <sup>2</sup> ) | (S) GP Limit (mW/cm <sup>2</sup> ) | MPE Ratio |
|-----------|-------------|-----------------|----------------|--------------------|--|--------------|---------------|--|------------------------------------|-----------|
| Bluetooth | 2402        | 1.0             | 1.26           | 0                  | 1.00                                   | 100.0        | 1.26          | 0.0003                                       | 1.000                              | 0.0003    |
| Total     |             |                 |                |                    |  |              |               |  |                                    | 0.0003    |

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/cm<sup>2</sup>

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.