

**MPE CALCULATION**  
**FCC ID: I28-ZBRZQ3BT / IC: 3798B- ZBRZQ3BT**

**RF Exposure Requirements:** 47 CFR §1.1307(b)  
**RF Radiation Exposure Limits:** 47 CFR §1.1310  
**RF Radiation Exposure Guidelines:** FCC OST/OET Bulletin Number 65  
**Limits for General Population/Uncontrolled Exposure in the band of:** 1500 - 100,000 MHz  
**Power Density Limit:** 1 mW / cm<sup>2</sup>

**Equation:**  $S = PG / 4\pi R^2$  or  $R = \sqrt{PG / 4\pi S}$   
Where, S = Power Density  
P = Power Input to Antenna  
G = Antenna Gain  
R = distance to the center of radiated antenna

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| Type   | CH Freq (MHz) | Conducted Power (dBm) | Antenna Gain (dBi) | Tune-Up Tolerance | Tolerance Max Power (dBm) | Measurement Distance (cm) | Calculated MPE (mW/cm <sup>2</sup> ) | MPE Limit (mW/cm <sup>2</sup> ) | Pass/Fail |
|--------|---------------|-----------------------|--------------------|-------------------|---------------------------|---------------------------|--------------------------------------|---------------------------------|-----------|
| BLE    | 2402          | 4.62                  | 1.69               | ±1dB              | 7.31                      | 20                        | 0.00107                              | 1                               | Pass      |
| BT-EDR | 2402          | 7.16                  | 1.69               | ±1dB              | 10.85                     | 20                        | 0.00192                              | 1                               | Pass      |

The Above Result had shown that the Device complied with MPE requirement.

*Deon*

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Date: 03/27/2019