1 RF Exposure (FCC ID: JQ6-SECONNECT)

| | | | <u> </u> | | | | | |
|---|----------------------------------|----------------------------------|---------------------------|---------------------------|--|--|--|--|
| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm²) | Average Time (minutes) | | | | |
| Limits For General Population / Uncontrolled Exposure | | | | | | | | |
| 0.3-1.34 | 614 | 1.63 | (100)* | 30 | | | | |
| 1.34-30 | 824/f | 2.19/f | (180/f²)* | 30 | | | | |
| 30-300 | 27.5 | 0.073 | 0.2 | 30 | | | | |
| 300-1500 | | | f/1500 | 30 | | | | |
| 1500-100,000 | | | 1.0 | 30 | | | | |

1.1 Limits for Maximum Permissible Exposure (MPE)

f = Frequency in MHz; *Plane-wave equivalent power density

1.2 MPE Calculation Formula

 $Pd = (Pout*G) / (4*pi*r^2)$

Where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 3.1416

R = distance between observation point and center of the radiator in cm

1.3 Classification

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as Mobile Device.

1.4 Antenna Gain

Chip Antenna Antenna Gain: BLE:0.5dBi 2.4G: 1.0dBi 5G: 2.6dBi

2 Test Results

| Mode | Max Power (dBm) | Max Power (mW) | Max Antenna Gain (dBi) | Distance (cm) | Power Density (mW/cm²) | Limit (mW/cm²) |
|----------------|--------------------|-------------------|------------------------------|------------------|------------------------------|-------------------|
| BLE | -0.74 | 0.843 | 0.5 | 20 | 0.000188 | 1 |
| 2.4GHz WLAN | 14.37 | 27.35 | 1.0 | 20 | 0.006851 | 1 |
| 5GHz WLAN | 13.75 | 23.71 | 2.6 | 20 | 0.008585 | 1 |

Conclusion:

The above results show that the device complies with the MPE requirement.