

**APPLICANT:** Zhongshan Victon Electronic Technology Co., Ltd.

**FCC ID:** WZVVT8012

### **Transmitter Operation Description**

Operation Frequency: 433.92MHz

Modulation Type: FSK

The transmitter consists of 3V Battery, MCU, RF Generator and RF Modulate IC, Crystal, Matched network and Antenna.

- A. 13.56MHz Crystal X1 is the accessory for RF Generator and RF Modulate IC U2 . Through the 32 times-amplify of the frequency in the inner of the IC, it engender the carried frequency (f: 433.92MHz) of the RF signal and the FSK Modulated Bias.
- B. In the RF Circuit application, the antenna consists of PCB Micro-line (Width: 2mm, Length:50mm) and Capacitance C8, C9. Between the antenna and the RF Modulate IC, the necessary the matched circuit consists of Inductance L2 and Capacitance C0, C9. There is no external ground connection. The ground is only that of the printed circuit board.
- C. This device power-supplied by 3V battery and in terms of periodic transmitting, gets the data of tire pressure and temperature from the MCU , generate the RF signal through RF Generator and RF Modulate IC, then radiate the RF signal to the sky via antenna through matched network, and complete the data-transmitting process wirelessly.