APPLICANT: **Ubang Indutry (HK) Limited**
FCC ID: **2ADBS-YB801**

The theory of **Bluetooth Speaker** (Model: **YB-801**):

The Bluetooth modulation provided by CSR8635(U1). And type is frequency modulation. The 26MHZ crystal oscillator drives the base of U1（CSR8635）.

The Bluetooth frequency is 2402-2480MHz, 40 Channels, Ver. 4.0 (BLE).
The Bluetooth transmitter's output power is 0.616mW.

Antenna, Ground and Power Source

The Bluetooth antenna consists of a 2.4GHz Single dipole antenna coil PCB antenna.
The NFC antenna is on the PCB, and use a loop antenna.
There is no external ground connection. The ground is only that of the printed circuit board. Electric current is supplied by a 3.7 Volt primary battery

Operation Descriptions

The bluetooth transmitter is a RADIO operating at 2400-2.483.5MHz band. The transmitter is powered by a 3.7V battery and the transmitting frequency is crystal controlled. The operation is achieved by different combinations of form frequency modulating signal on the 2400MHz carrier frequency.

NFC transmitter is operating at 13.56MHz. NFC Module can identify the other equipment.

Remarks:
The transmitter is a trigger button transmitter. The EUT continues to transmit while button is being pressed. It is button transmitter, Modulation by IC; and type is frequency modulation.