

Applicant: LeapFrog Enterprises, Inc.  
FCC ID: QDX0203101

### **Circuit Description**

Q1 is the 13.560 MHz crystal controlled oscillator, The digital information data is accomplished by damping the LC tank, Then amplify by IC1 LM358N, This digital signal input to MCU "HT48R06A" for analyze and control voice engine IC "SPDS105A" to generate voice. The "HT48R06A" generate an approximate 200ms ON/OFF signal and driven by Q2 for power save, After 2 minute without any scanning and push button function device will go to sleep mode, resume the device should push scan switch SW1 or turn off power switch then turn on again.

The food items (content IC HT6720) are not content battery energy. Transistor Q1 is a RF oscillator and the feed back signal is output from Q1 emitter then sent to amplify.

Coil L3 is layout on scanner PCB, SW3 and SW4 for voice trigger. All electronic current are supplied by 3 X 1.5 V "AA" batteries.