



## **STC Test Report**

Date : 2006-11-03

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### **3.3 Operation Description**

#### **Circuit Description**

The 88.1-107.9MHz crystal oscillator driver the base of IC the final / buffer amplifier. The modulation provide by audio input. The output of IC has the matching network consisting C20, C23, C24, R39, R40, R44 and L2 that limit the harmonic content and effect the proper coupling of the antenna to the output stage.

#### **Antenna, ground and power source**

The antenna is single wire as an internal antenna. There is no external ground connection. The ground is only that of the printed circuit board. Electronic current is supplied by I-Pod nano for primary battery.

#### **Operation Description**

The transmitter is a FM transmitter operating at 88-108MHz band. The transmitter is power by I-Pod nano and the transmitting frequency is crystal with IC controlled. The operation is achieved by different combinations of form frequency modulating signal on the 88.1-107.9MHz carrier frequency.

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