## **EUT Info**

Necessary Bandwidth as defined in 47CFR 2.202(b). Provide justification.

The Stratos LV-T transmits using bipolar FSK. The deviation in this modulator is nominally 16 KHz. The 2 KHz data is Manchester encoded to 4 KHz.

Using Carson's Rule,

 $B_T = 2(\beta + 1)R$ 

Where  $B_T$  is the occupied bandwidth, and R is the channel rate.  $\beta = \Delta f/R$  where  $\Delta f$  is the deviation

In this system, R=4000 and  $\beta = 16/4 = 4$ , so that B<sub>T</sub> = 40 kHz

## **FCC Emissions Designators:**

(1) MICS transmitter: 40K0F1D(2) Inductive radio: 10K0K1D

**DC voltages:** Internal battery, 3 volts nominal

**DC** current into final transmitter stage: approx. 1 mA