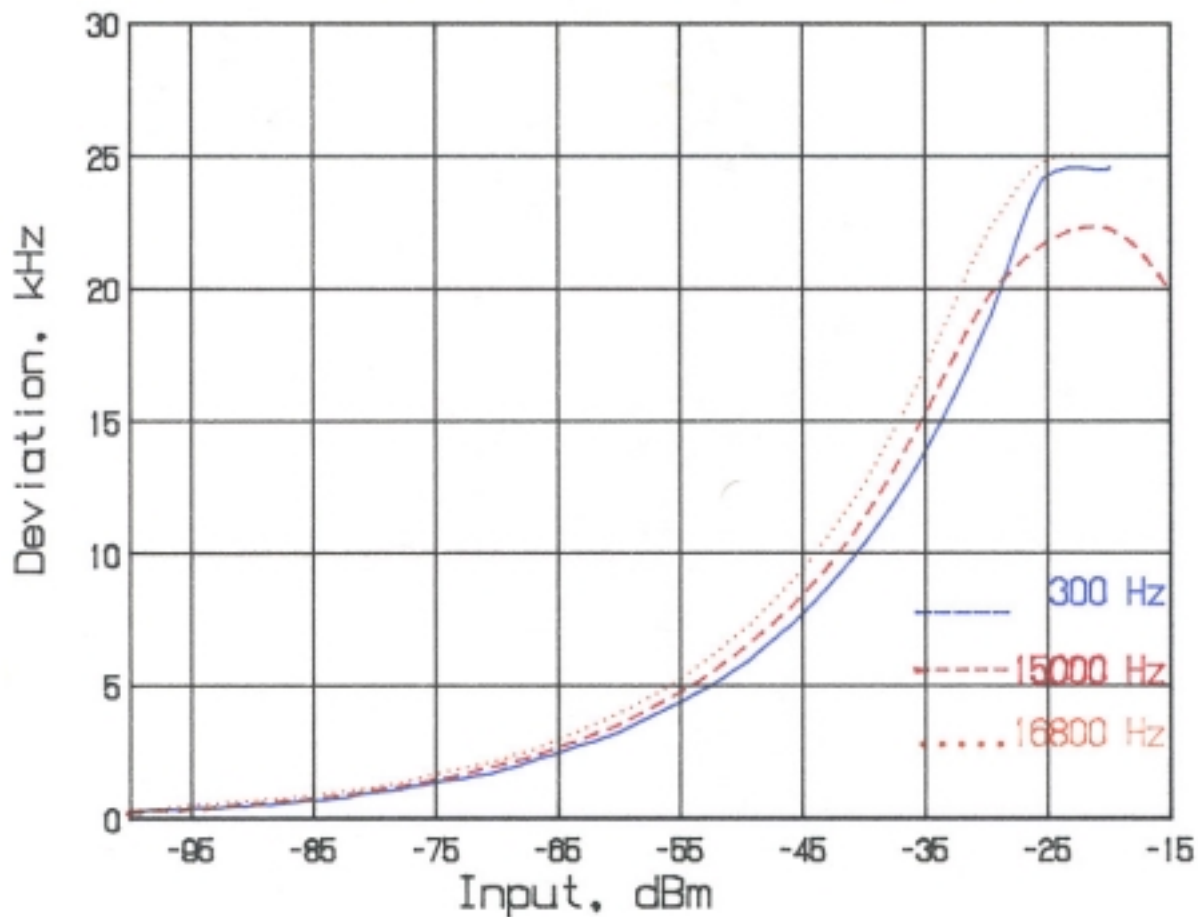


FCC Inquiry Dated 11/7/00
FCC ID: JFZT214
731 Confirmation Number: TC990089

1. Measurement data for modulation limiting as required by Section 2.1047(b): Plot follows.
2. Measurement data showing the frequency stability for temperatures down to -30 degrees C as required by Section 2.1055(a)(1): Data follows.
3. Please accept data based on XX uV/m pending revisions of our test procedures and equipment. Note all spurious were >30 dB below carrier.
4. Please accept data based on XX uV/m pending revisions of our test procedures and equipment.

AUDIO LIMITER CHARACTERISTICS



AUDIO LIMITER CHARACTERISTICS
FCC ID: JFZT214

FIGURE 3

5a

G. FREQUENCY STABILITY (Paragraph 2.995(2) and 90.213 of the Rules)

Measurement of frequency stability versus temperature was made at temperatures from -0°C to $+50^{\circ}\text{C}$. At each temperature,

the unit was exposed to test chamber ambient a minimum of 60 minutes after indicated chamber temperature ambient had stabilized to within $\pm 2^\circ$ of the desired test temperature. Following the 1 hour soak at each temperature, the unit was turned on, keyed and frequency measured within 2 minutes. Test temperature was sequenced in the order shown in Table 2, starting with -0°C .

A Thermotron S1.2 temperature chamber was used. Temperature was monitored with a Keithley 871 digital temperature probe. The transmitter output stage was terminated in a 50 ohm dummy load. Primary supply was 3 Vdc. Frequency was measured with a HP5385A digital frequency counter connected to the transmitter through a power attenuator.

TABLE 2

FREQUENCY STABILITY AS A FUNCTION OF TEMPERATURE
728.125 MHz; 3 Vdc; 10 mW

<u>Temperature, $^\circ\text{C}$</u>	<u>Output Frequency, MHz</u>
-29.2*	728.113729
-20.0*	728.117498
- 9.3*	728.121435
0.1*	728.125919
9.9	728.126289
20.3	728.125849
30.0	728.124780
40.0	728.123654
50.1	728.123439
Maximum frequency error:	728.123439
	<u>728.125000</u>
	- 0.001561 MHz

FCC Rule 74.861(e)(4) specifies .005% or a maximum of 0.036406 MHz, corresponding to:

High Limit	728.161406 MHz
Low Limit	728.088594 MHz

*User manual will warn against possible trauma from touching microphone with lips. (Mittens or gloves provided.)