March 31, 2000

Frank Coperich
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Correspondence Reference Number : 12978

From : Leon Kogan, JMR Electronics Inc.

Applicant : Listen Technologies Corporation
FCC ID: OMD700-216
731 Confirmation Number : EA96005

Dear Mr. Coperich:

Below you will find the information that was requested in your letter on March 23, 2000. All items concur with the numbered questions in your past e-mail.

**ITEM 2:**

**: Please list actual ERP on FCC Form 731 and provide a justification for this value**

For determination of the ERP the field strength produced by LT700 unit with its supplied antenna, was re-measured for 1K Standard channel and 2K extra band channel. Then by substitution method the ERP was determined. For substitution method "Tunable Dipole Antenna, model # FCC3" with RG-58U cable, L=7.8 m and "HP 8648A Signal Generator" were used.

A. The following are the results of the actual field strength readings

| | **The field strength Peak value** |
|---|---|
| Standard channel 1K | 82.34 dBuV |
| Extra band channel 2K | 83.19 dBuV |

B The following are the results of the actual HP8648A Signal generator readings to produce the same field strength readings as in the table above.

| | **HP8648A readings** | **The field strength, Peak value** |
|---|---|---|
| Standard channel 1K | 80.96 dBuV / -26.04 dBm | 82.34 dBuV |
| Extra band channel 2K | 80.81 dBuV / -26.19 dBm | 83.19 dBuV |

C. The equation for ERP determination is

**ERP = P + G – L** where

P is a power into dipole (reading of the HP8648A);
G is the relative gain of the half-wave dipole antenna which is equal 2.68 dB ;
L is the losses of the RG-58U cable which is equal 1.3 dB.

The following are the results of the ERP :

| | **ERP value** |
|---|---|
| Standard channel 1K | 0.00342 W / -24.66 dBm |
| Extra band channel 2K | 0.00330 W / -24.81 dBm |

**ITEM 3:**

**: Please provide modulation limiting data, which would be plots of the transmitter deviation as a function of input level – done at several frequencies over the audio modulating range.**

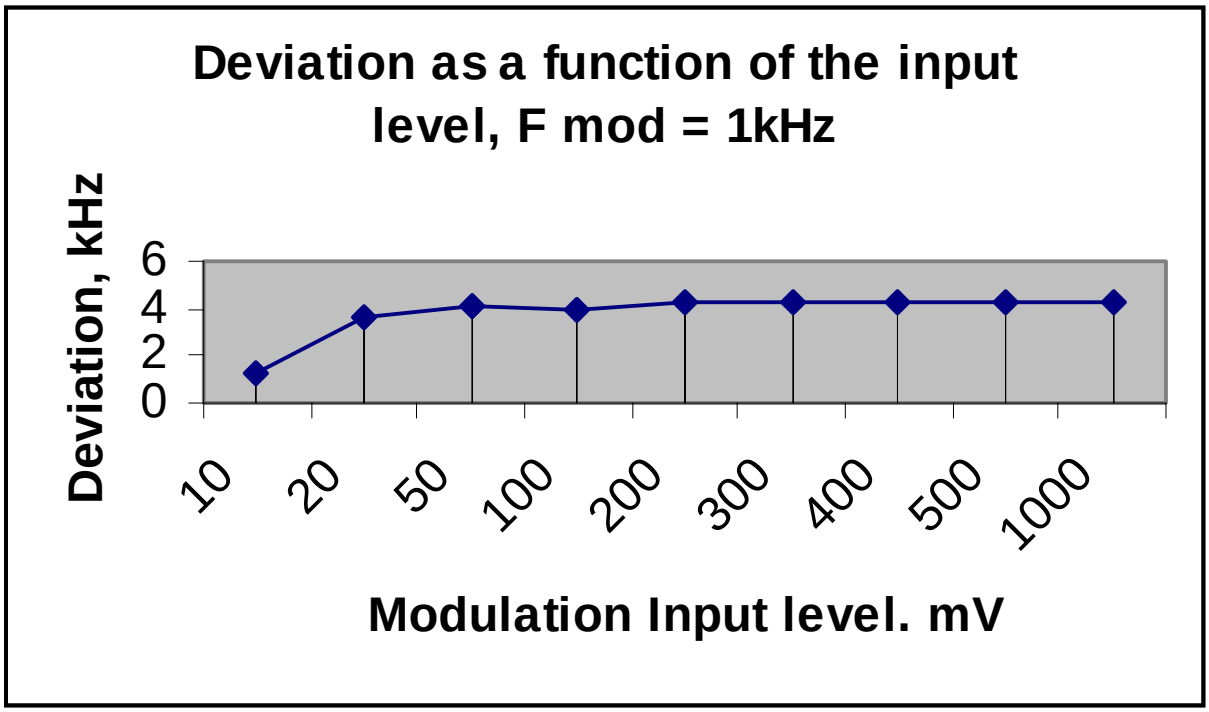
The following are a series of data/plots showing the system deviation as the input level of the modulation frequency changes.

**MODULATION CHARACTERISTICS** were tested on the Standard band channel 1K for modulation frequencies 1kHz, 3kHz, 5kHz and Extra band channel 2K for modulation frequencies 1kHz, 3kHz, 5kHz, 7kHz and 9kHz..

**1.0 Channel 1K, Fc = 216.512496 MHz, RBW = 3 kHz**

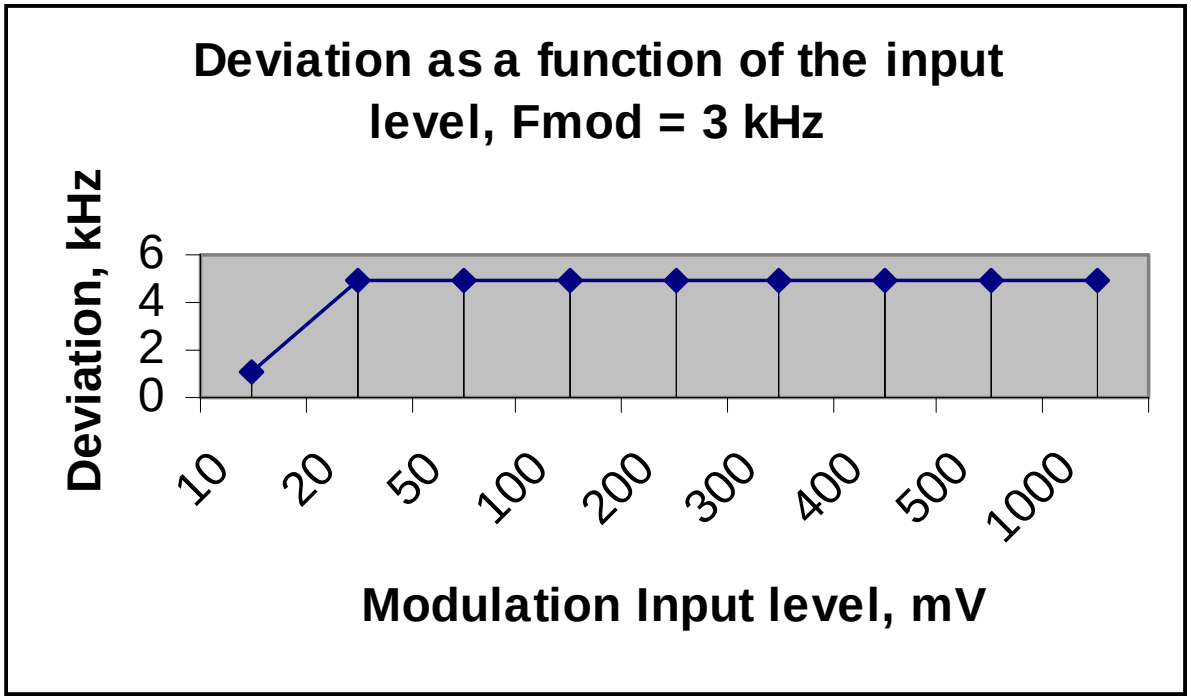
**1.1 F mod = 1 kHz**

| The modulation Amplitude<br><br>mV | Tx frequency $F_{99}$ at 99% level of Fc peak MHz | Deviation Fc – $F_{99}$<br><br>kHz | The modulation Frequency F mod kHz |
|---|---|---|---|
| 10 | 216.511184 | 1.312 | 1 |
| 20 | 216.508840 | 3.656 | 1 |
| 50 | 216.508464 | 4.032 | 1 |
| 100 | 216.508496 | 4.000 | 1 |
| 200 | 216.508248 | 4.248 | 1 |
| 300 | 216.508248 | 4.248 | 1 |
| 400 | 216.508248 | 4.248 | 1 |
| 500 | 216.508248 | 4.248 | 1 |
| 1000 | 216.508248 | 4.248 | 1 |



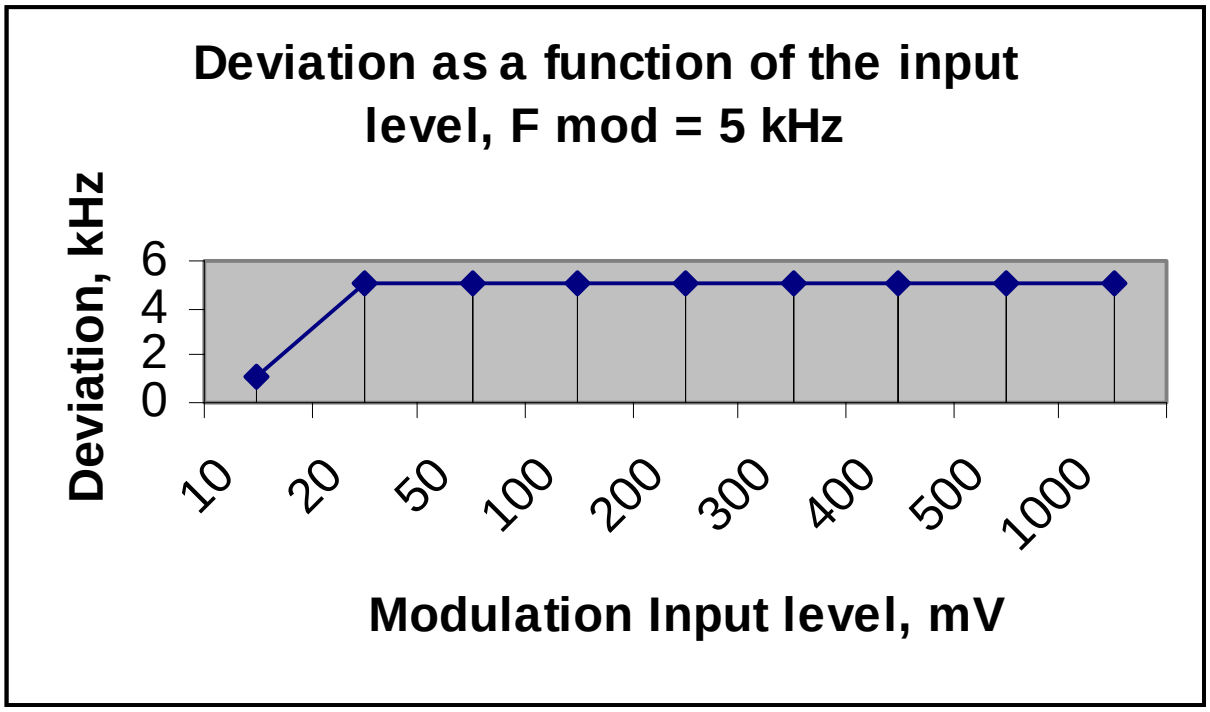
**1.2 F mod = 3 kHz**

| The modulation Amplitude<br><br>mV | Tx frequency $F_{99}$ at 99% level of Fc peak<br>MHz | Deviation<br>$Fc - F_{99}$<br><br>kHz | The modulation Frequency<br><br>kHz |
|---|---|---|---|
| 10 | 216.511496 | 1.000 | 3 |
| 20 | 216.506560 | 5.936 | 3 |
| 50 | 216.506560 | 5.936 | 3 |
| 100 | 216.506560 | 5.936 | 3 |
| 200 | 216.506560 | 5.936 | 3 |
| 300 | 216.506560 | 5.936 | 3 |
| 400 | 216.506560 | 5.936 | 3 |
| 500 | 216.506560 | 5.936 | 3 |
| 1000 | 216.506560 | 5.936 | 3 |



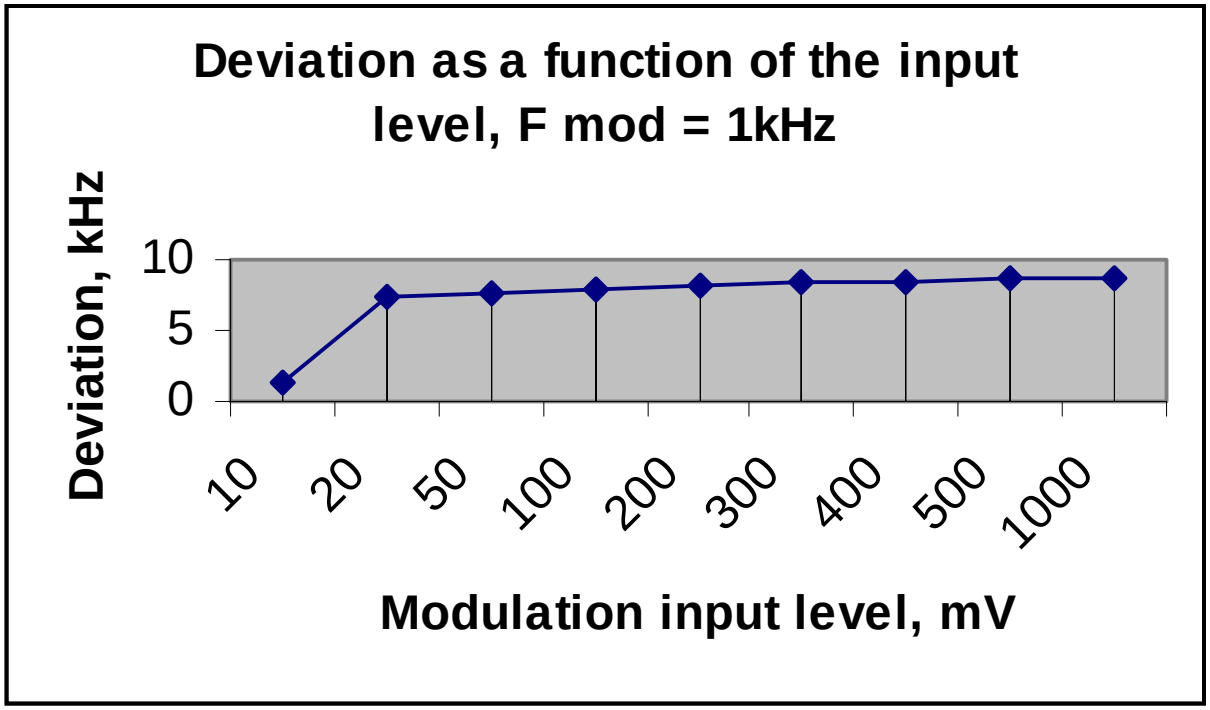
**1.3 F mod = 5 kHz**

| The modulation Amplitude<br><br>MV | Tx frequency $F_{99}$ at 99% level of Fc peak<br>MHz | Deviation<br>Fc – $F_{99}$<br><br>kHz | The modulation Frequency<br><br>kHz |
|---|---|---|---|
| 10 | 216.511432 | 1.064 | 5 |
| 20 | 216.507504 | 4.992 | 5 |
| 50 | 216.507504 | 4.992 | 5 |
| 100 | 216.507504 | 4.992 | 5 |
| 200 | 216.507504 | 4.992 | 5 |
| 300 | 216.507504 | 4.992 | 5 |
| 400 | 216.507504 | 4.992 | 5 |
| 500 | 216.507504 | 4.992 | 5 |
| 1000 | 216.507504 | 4.992 | 5 |



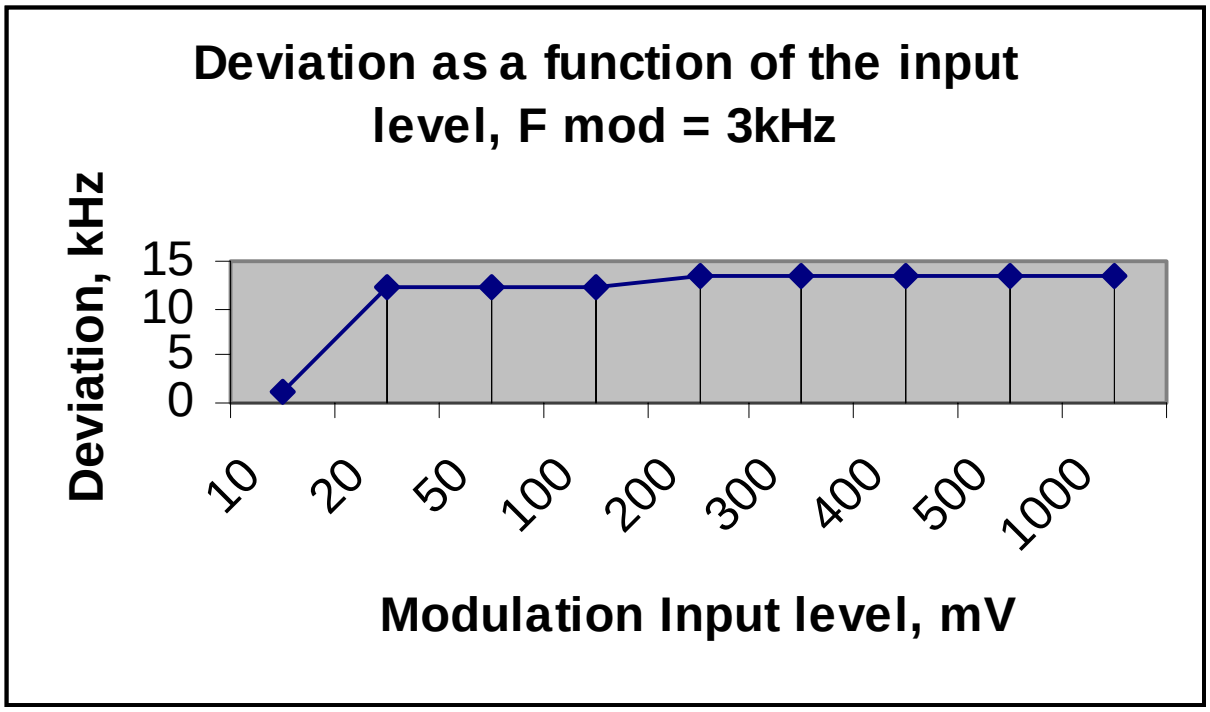
**2.0 Channel 2K, Fc = 216.524496 MHz, RBW = 3 kHz**
**2.1 F mod = 1 kHz**

| The modulation Amplitude<br><br>mV | Tx frequency $F_{99}$ at 99% level of Fc peak MHz | Deviation Fc – $F_{99}$<br><br>kHz | The modulation Frequency<br><br>kHz |
|---|---|---|---|
| 10 | 216.523272 | 1.224 | 1 |
| 20 | 216.517176 | 7.320 | 1 |
| 50 | 216.516744 | 7.752 | 1 |
| 100 | 216.516680 | 7.816 | 1 |
| 200 | 216.516432 | 8.064 | 1 |
| 300 | 216.516184 | 8.312 | 1 |
| 400 | 216.516184 | 8.312 | 1 |
| 500 | 216.515937 | 8.559 | 1 |
| 1000 | 216.515936 | 8.560 | 1 |



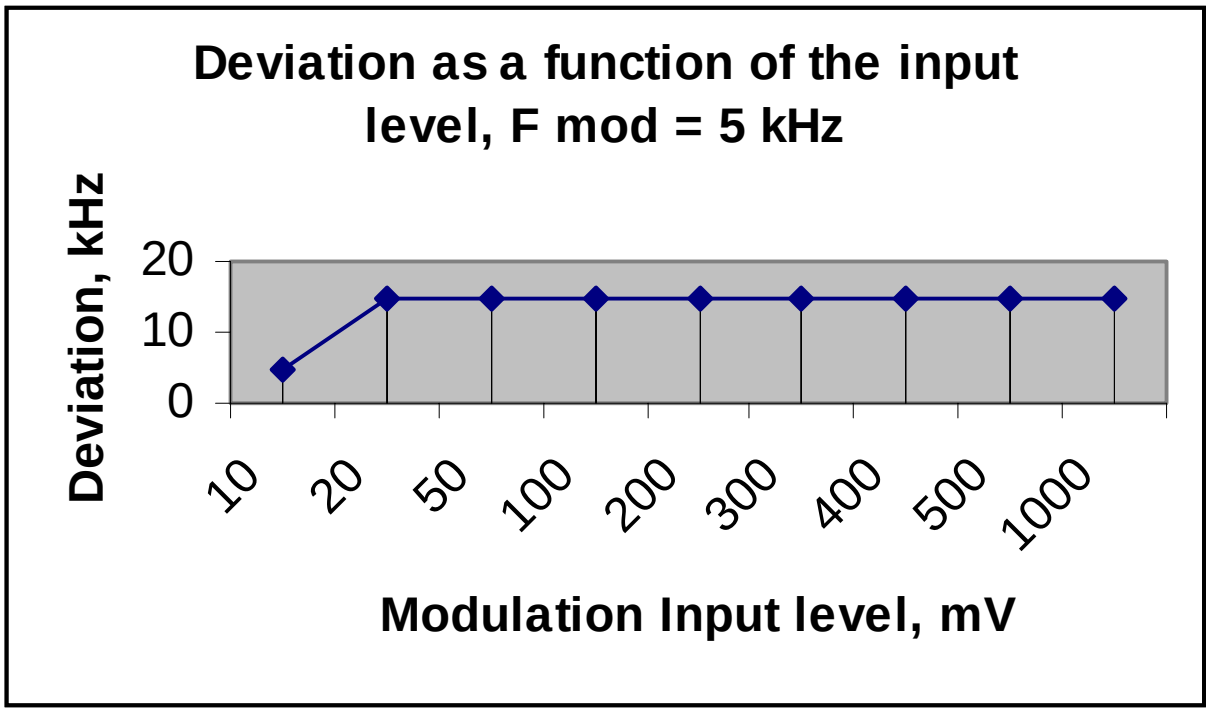
**2.2 F mod = 3 kHz**

| The modulation Amplitude<br><br>mV | Tx frequency $F_{99}$ at 99% level of Fc peak MHz | Deviation Fc – $F_{99}$<br><br>kHz | The modulation Frequency<br><br>kHz |
|---|---|---|---|
| 10 | 216.523184 | 1.312 | 3 |
| 20 | 216.512432 | 12.064 | 3 |
| 50 | 216.512312 | 12.184 | 3 |
| 100 | 216.512432 | 12.064 | 3 |
| 200 | 216.511120 | 13.376 | 3 |
| 300 | 216.511184 | 13.312 | 3 |
| 400 | 216.510992 | 13.504 | 3 |
| 500 | 216.511056 | 13.440 | 3 |
| 1000 | 216.511056 | 13.440 | 3 |



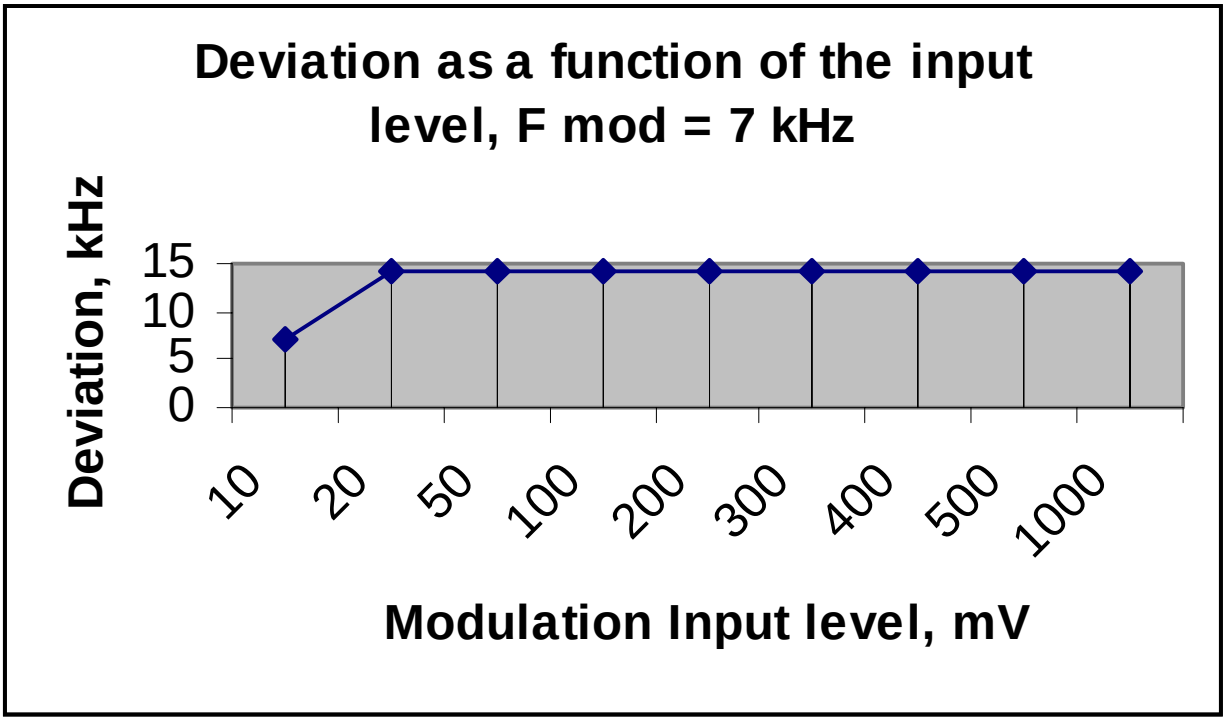
**2.3 F mod = 5 kHz**

| The modulation Amplitude<br><br>mV | Tx frequency $F_{99}$ at 99% level of Fc peak MHz | Deviation Fc – $F_{99}$<br><br>kHz | The modulation Frequency<br><br>kHz |
|---|---|---|---|
| 10 | 216.519720 | 4.776 | 5 |
| 20 | 216.509592 | 14.904 | 5 |
| 50 | 216.509688 | 14.808 | 5 |
| 100 | 216.509592 | 14.904 | 5 |
| 200 | 216.509688 | 14.808 | 5 |
| 300 | 216.509688 | 14.808 | 5 |
| 400 | 216.509688 | 14.808 | 5 |
| 500 | 216.509688 | 14.808 | 5 |
| 1000 | 216.509688 | 14.808 | 5 |



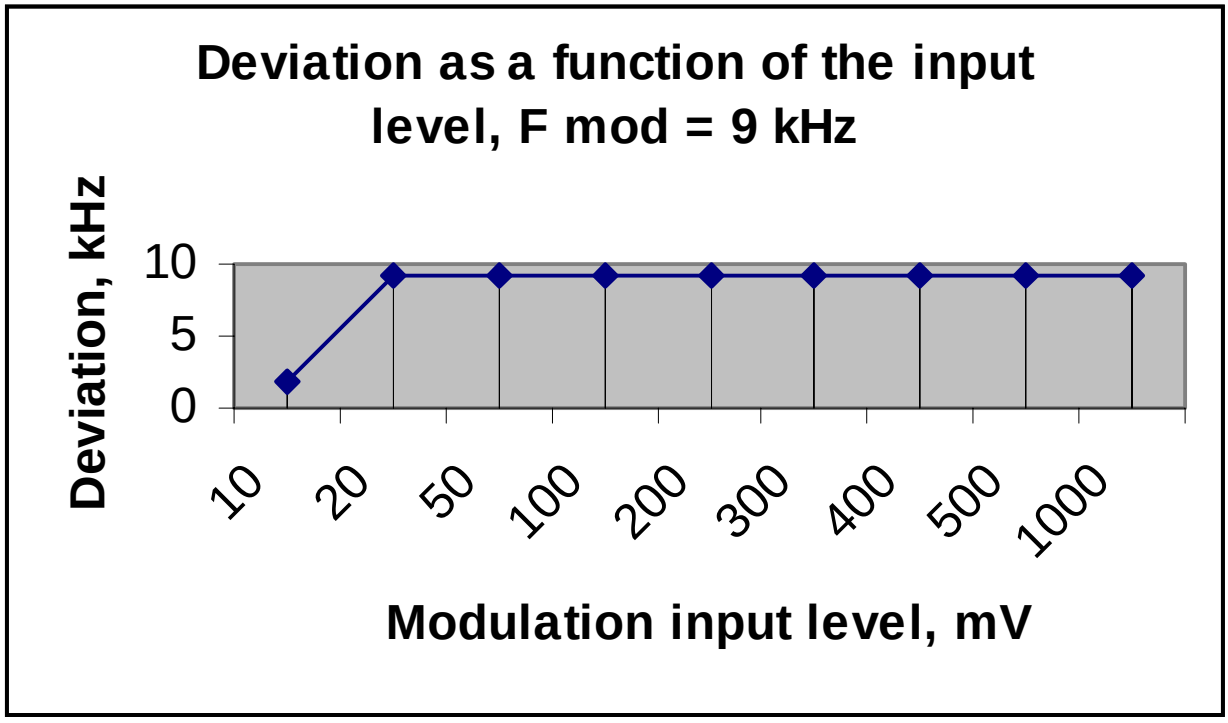
**2.4 F mod = 7 kHz**

| The modulation Amplitude<br><br>MV | Tx frequency $F_{99}$ at 99% level of Fc peak<br>MHz | Deviation<br>Fc – $F_{99}$<br><br>KHz | The modulation Frequency<br><br>kHz |
|---|---|---|---|
| 10 | 216.517560 | 6.936 | 7 |
| 20 | 216.510432 | 14.064 | 7 |
| 50 | 216.510432 | 14.064 | 7 |
| 100 | 216.510432 | 14.064 | 7 |
| 200 | 216.510432 | 14.064 | 7 |
| 300 | 216.510432 | 14.064 | 7 |
| 400 | 216.510432 | 14.064 | 7 |
| 500 | 216.510432 | 14.064 | 7 |
| 1000 | 216.510432 | 14.064 | 7 |



**2.5 F mod = 9 kHz**

| The modulation Amplitude<br><br>mV | Tx frequency $F_{99}$ at 99% level of Fc peak MHz | Deviation Fc – $F_{99}$<br><br>kHz | The modulation Frequency<br><br>kHz |
|---|---|---|---|
| 10 | 216.522616 | 1.880 | 9 |
| 20 | 216.515400 | 9.096 | 9 |
| 50 | 216.515400 | 9.096 | 9 |
| 100 | 216.515400 | 9.096 | 9 |
| 200 | 216.515400 | 9.096 | 9 |
| 300 | 216.515400 | 9.096 | 9 |
| 400 | 216.515400 | 9.096 | 9 |
| 500 | 216.515400 | 9.096 | 9 |
| 1000 | 216.515400 | 9.096 | 9 |



I hope these answers are sufficient. If there are any further questions, please feel free to email me or call me back .

Sincerely,

Leon Kogan

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