



COMPANY NAME: TOPAZ3, L.L.C..
EUT: SM-3450 MOBILE RADIO
CLIENT REFERENCE NUMBER: QRTL00-316
WORK ORDER NUMBER: 2000301
FCC ID: 07KSM3450U2

7 FCC Rules and Regulations Part 2 §2.1047 (a): Modulation characteristics - AUDIO FREQUENCY RESPONSE

7.1 Test Procedure

ANSI/TIA/EIA-603-1992, section 2.2.6

The audio frequency response is the degree of closeness to which the frequency deviation of the transmitter follows a prescribed characteristic.

The input audio level at 1000 Hz is set to produce 20% of the rated system deviation. This point is shown as the 0 dB reference level, noted DEVref.

The audio signal generator was varied from 100Hz to 5kHz with the input level held constant.

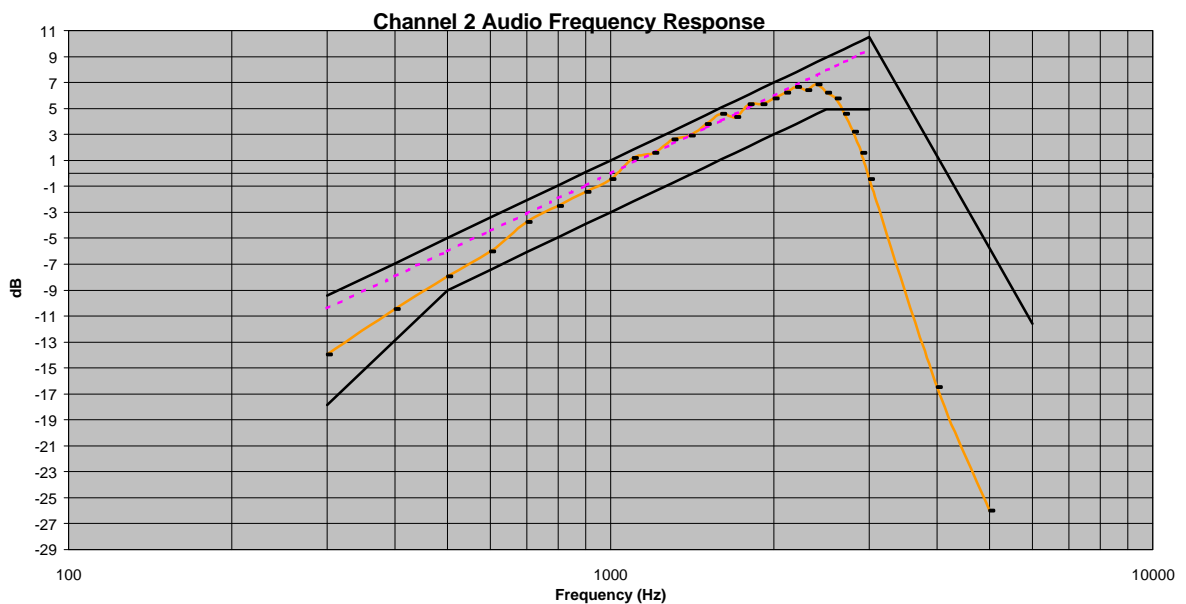
The deviation in kHz was recorded using a modulation analyzer as DEVfreq.

The response in dB relative to 1 kHz was calculated as follows:

$$\text{Audio Frequency Response} = 20 \text{ LOG (DEVfreq/DEVref)}$$

7.2 Test Data

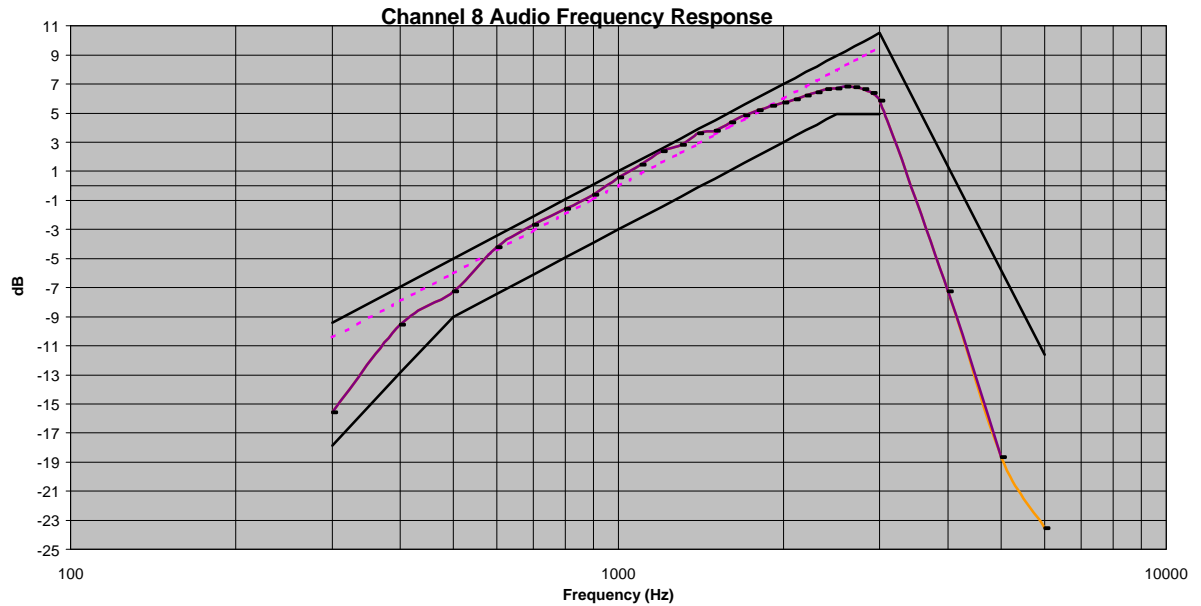
7.2.1 CHANNEL 2-12.5 kHz CHANNEL BANDWIDTH AUDIO FREQUENCY RESPONSE





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7.2.2 CHANNEL 8-25 KHz CHANNEL BANDWIDTH AUDIO FREQUENCY RESPONSE



7.3 Test Equipment

Audio generator	HP3336B/s/n 2127A00559
Modulation analyzer	HP8901A s/n 2545A04102