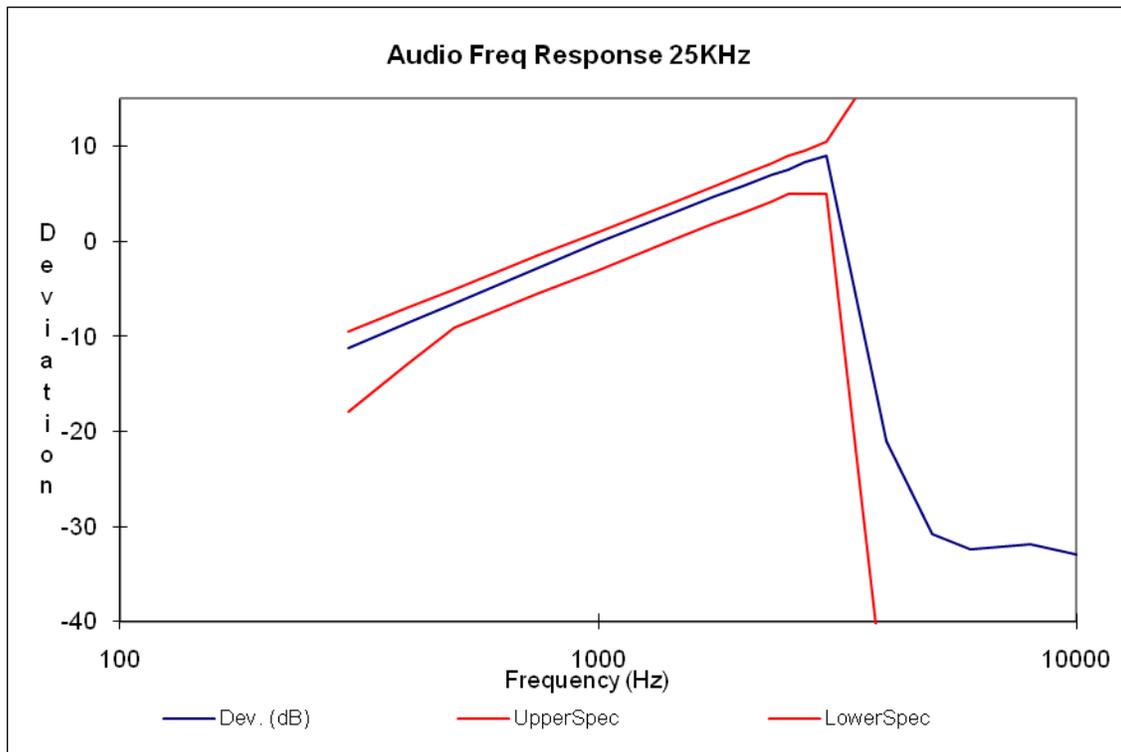


**Submitted Measured Data**

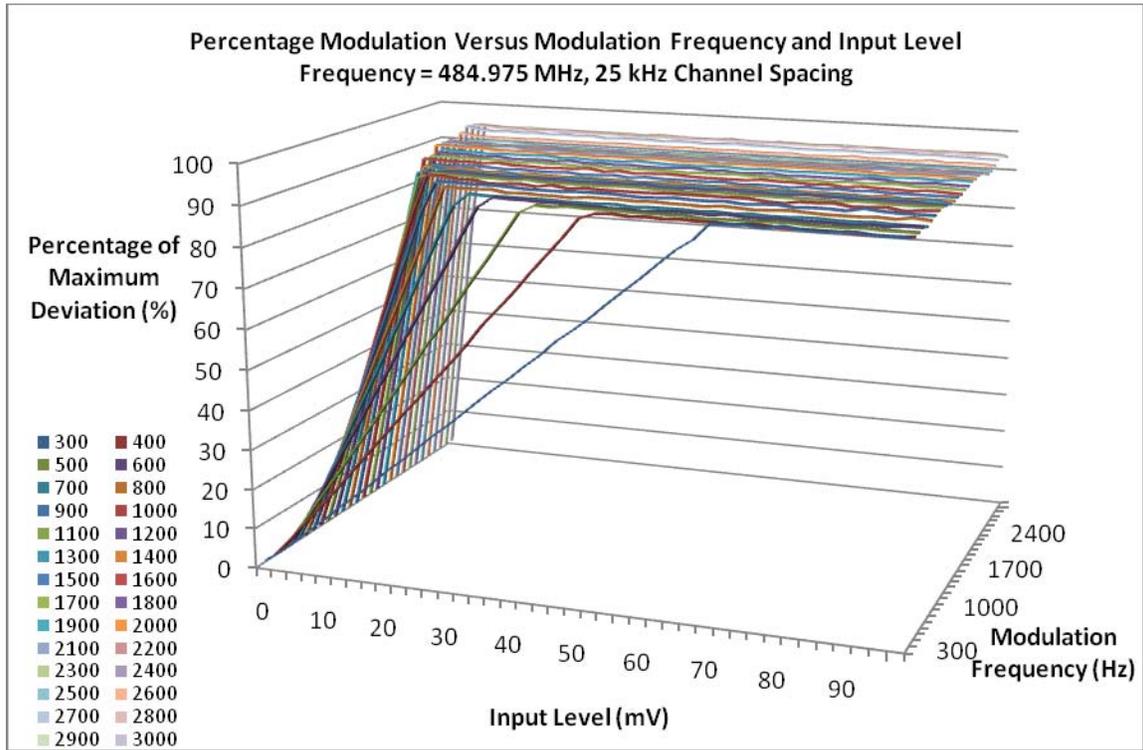
| <u>MEASUREMENT</u>              | <u>EXHIBIT</u> | <u>NUMBER OF PAGES</u> |
|---------------------------------|----------------|------------------------|
| 1. Audio Frequency Response     | 6B-1           | 1                      |
| 2. Modulation Limiting          | 6D-1           | 1                      |
| 3. Occupied Bandwidth           | 6E-1           | 2                      |
| 4. Transient Frequency Behavior | 6J-1           | 1                      |

Note: Data was tested to show compliance to RSS102, RSS119, and RSS210.

**Audio Frequency Response** (Freq: 484.975MHz, ChSp: 25 kHz)



**Modulation Limiting**



The Percentage of Max. Deviation on the "Z" axis is referenced to 2.5kHz for 25kHz bandwidth

**Occupied Bandwidth Data**

## BANDWIDTH CALCULATIONS:

Carson's Rule for FM modulation is utilized to compute the bandwidth shown in the FCC emission designator. Carson's Rule is:

$$BW = 2 * (M + D) \quad \text{where: } BW = \text{Bandwidth}$$

M= Maximum modulating frequency

D = Deviation

Shown below are the calculations required for FCC ID: AZ489FT4903.

**EXHIBIT 6E-1**

Standard Audio Modulation (25 kHz Channelization, Analog Voice):

Emission Designator 16K0F3E

In this case, the maximum modulating frequency is 3 kHz with a 5 kHz deviation.

$$BW = 2(M+D) = 2*(3 \text{ kHz} + 5 \text{ kHz}) = 16 \text{ kHz} \Rightarrow 16K0$$

F3E portion of the designator indicates voice.

Therefore, the entire designator for 25 kHz channelization analog voice is 16K0F3E.

**EXHIBIT 6E-2**

Digital Modulation (20 kHz Channelization, Analog Voice with encryption):

Emission Designator 20K0F1E

In this case, the maximum modulating frequency is 6 kHz with a 4 kHz deviation.

$$BW = 2(M+D) = 2*(6 \text{ kHz} + 4 \text{ kHz}) = 20 \text{ kHz} \Rightarrow 20K0$$

F1E portion of the designator indicates digital voice.

Therefore, the entire designator for 20 kHz channelization analog voice is 20K0F1E.

**Occupied Bandwidth** (Analog Voice: 16K0F3E)  
Frequency = 485.025 MHz Channel Spacing = 25 kHz

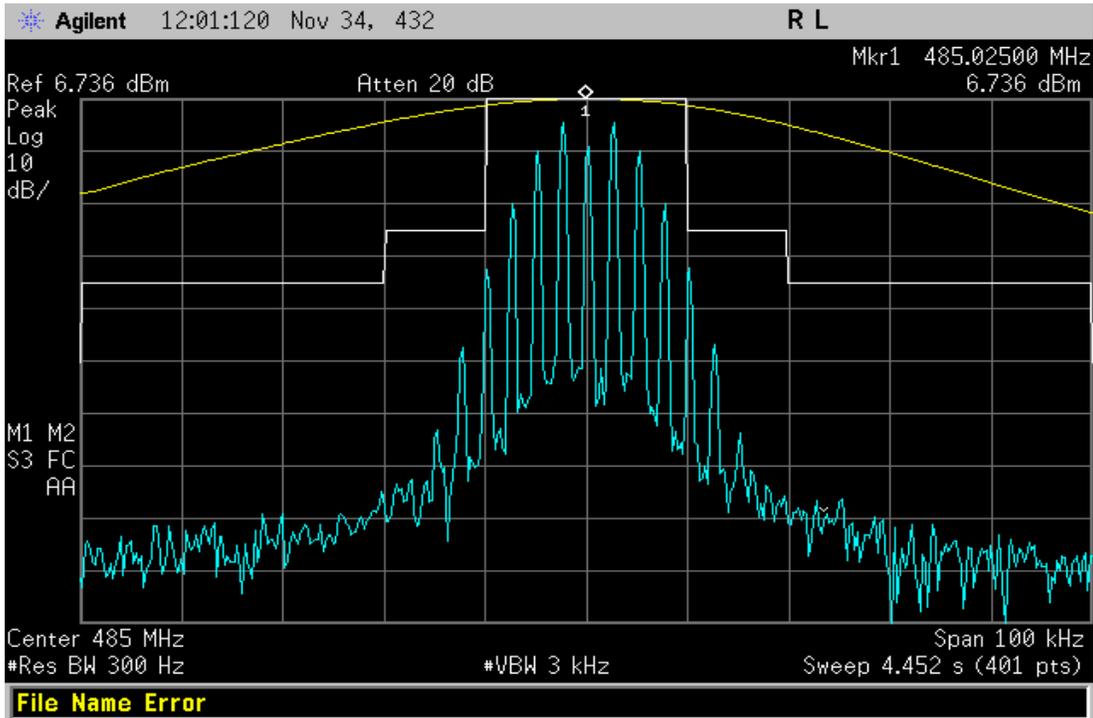


Exhibit 6E-1A

**Occupied Bandwidth** (Analog Voice Encryption: 20K0F1E)  
Frequency = 485.025 MHz Channel Spacing = 20 kHz

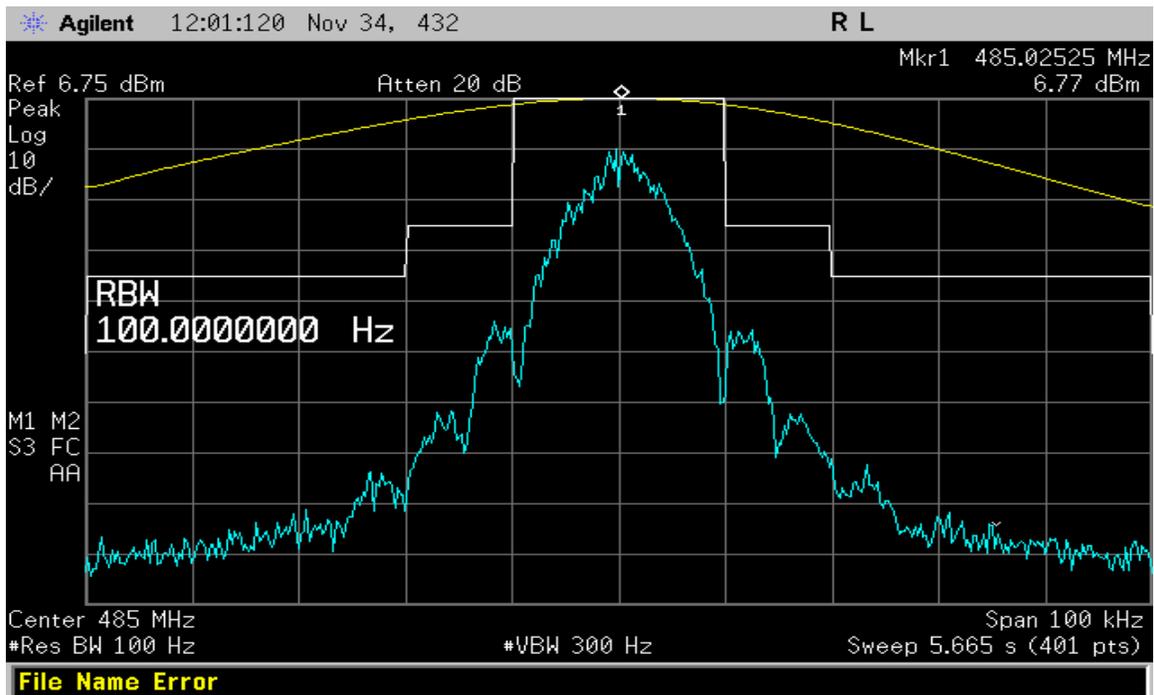


Exhibit 6E-1B

Transient Frequency Behavior

Transmit at 485.025MHz – 25 kHz Channel Spacing – Transmitter On

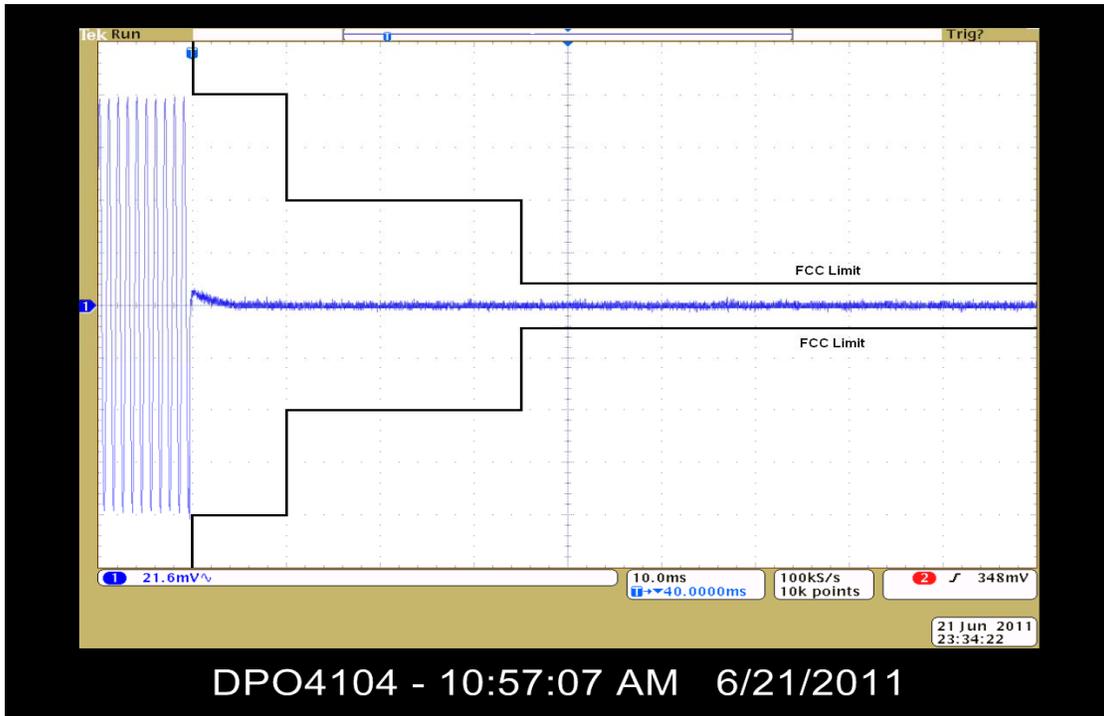


Exhibit 6J-1A

Transmit at 485.025 MHz – 25 kHz Channel Spacing – Transmitter Off

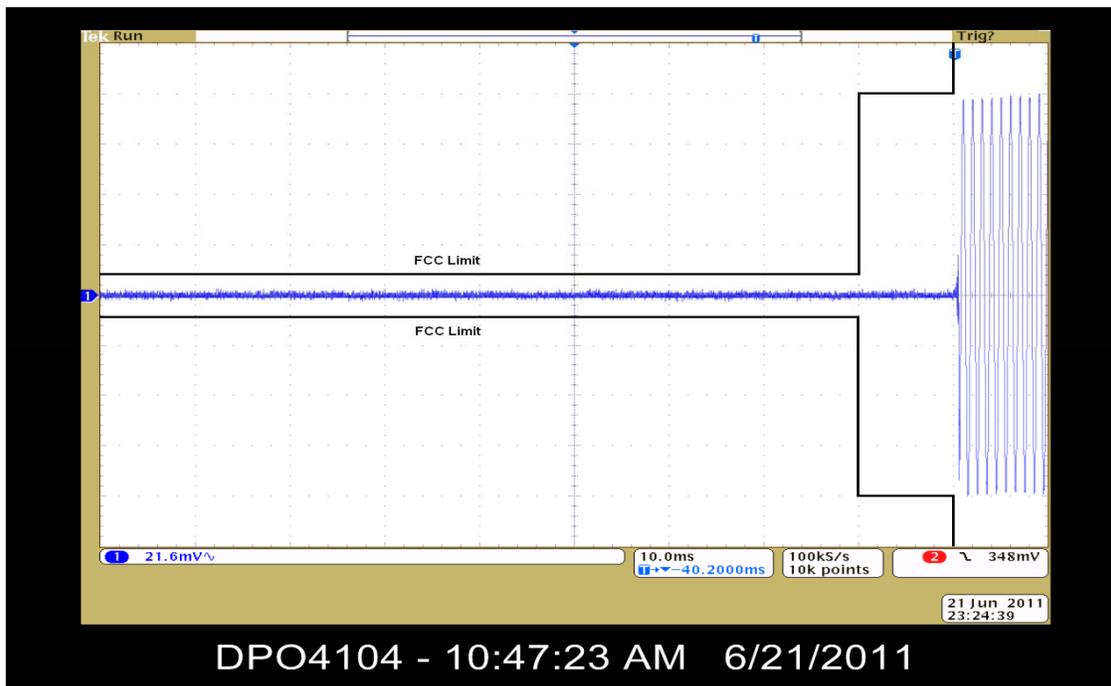


Exhibit 6J-1B