

**EXHIBIT 6 Part 1**

**INDEX OF SUBMITTED MEASURED DATA**

This exhibit contains the measured data for this equipment as follows:

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**EXHIBIT 6B** – Audio Frequency Response (2 Graphs)

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6E-20: O.153 Test Pattern 4FSK Data Modulation Only

**EXHIBIT 6F – Conducted Spurious Emissions (12 Tables)**

- 6F-1: 1 Watts Harmonic of Carrier 450.0125 MHz, 12.5 kHz Channel Spacing
- 6F-2: 1 Watts Harmonic of Carrier 481.0125 MHz, 12.5 kHz Channel Spacing
- 6F-3: 1 Watts Harmonic of Carrier 511.9875 MHz, 12.5 kHz Channel Spacing
- 6F-4: 4.8 Watts Harmonic of Carrier 450.0125 MHz, 12.5 kHz Channel Spacing
- 6F-5: 4.8 Watts Harmonic of Carrier 481.0125 MHz, 12.5 kHz Channel Spacing
- 6F-6: 4.8 Watts Harmonic of Carrier 511.9875 MHz, 12.5 kHz Channel Spacing
- 6F-7: 1 Watts Harmonic of Carrier 450.0125 MHz, 25 kHz Channel Spacing
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- 6F-11: 4.8 Watts Harmonic of Carrier 481.0125 MHz, 25 kHz Channel Spacing
- 6F-12: 4.8 Watts Harmonic of Carrier 511.9875 MHz, 25 kHz Channel Spacing

**EXHIBIT 6A**

**RF Power** - Pursuant 47 CFR. 2.1046(a) and 2.1033(c) 6, 7 & 8

The RF power output was measured with the indicated voltage applied to and current into the final RF amplifying device.

**At maximum output power setting, Frequency 450.0125 MHz:**

Output RF power	4.72 Watts
DC Voltage	7.5 Volts
DC Current	1.83 Amps
DC Input Power	13.725 Watts

**At minimum output power setting, Frequency 450.0125 MHz:**

Output RF power	1.16 Watts
DC Voltage	7.5 Volts
DC Current	0.06 Amps
DC Input Power	7.2 Watts

**At maximum output power setting, Frequency 481.0125 MHz:**

Output RF power	4.74 Watts
DC Voltage	7.5 Volts
DC Current	1.75 Amps
DC Input Power	13.125 Watts

**At minimum output power setting, Frequency 481.0125 MHz:**

Output RF power	1.14 Watts
DC Voltage	7.5 Volts
DC Current	0.8 Amps
DC Input Power	6.0 Watts

**At maximum output power setting, Frequency 511.9875 MHz:**

Output RF power	4.70 Watts
DC Voltage	7.5 Volts
DC Current	1.76 Amps
DC Input Power	13.20 Watts

**At minimum output power setting, Frequency 511.9875 MHz:**

Output RF power	1.15 Watts
DC Voltage	7.5 Volts
DC Current	0.76 Amps
DC Input Power	5.7 Watts

EXHIBIT 6B

Transmit Audio Response - Pursuant 47 CFR 2.1047 and 2.1033(c) (13)

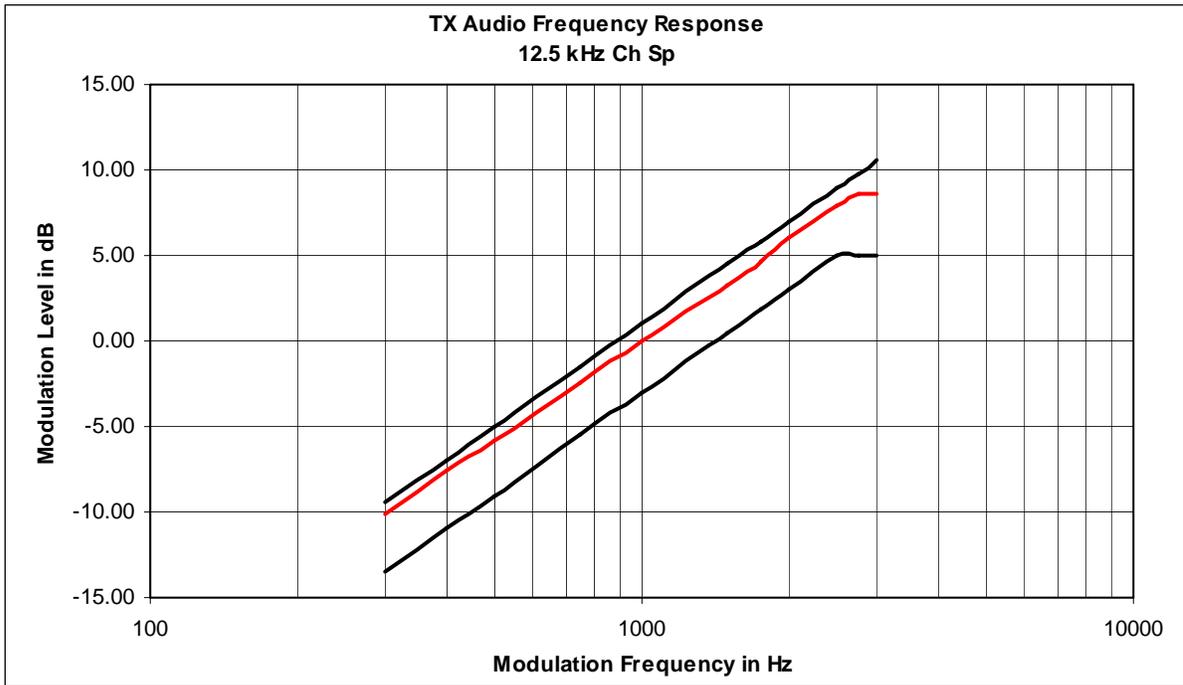


Figure 6B-1: 12.5 kHz Channel Spacing, 481.0125 MHz, Transmit Audio Frequency Response

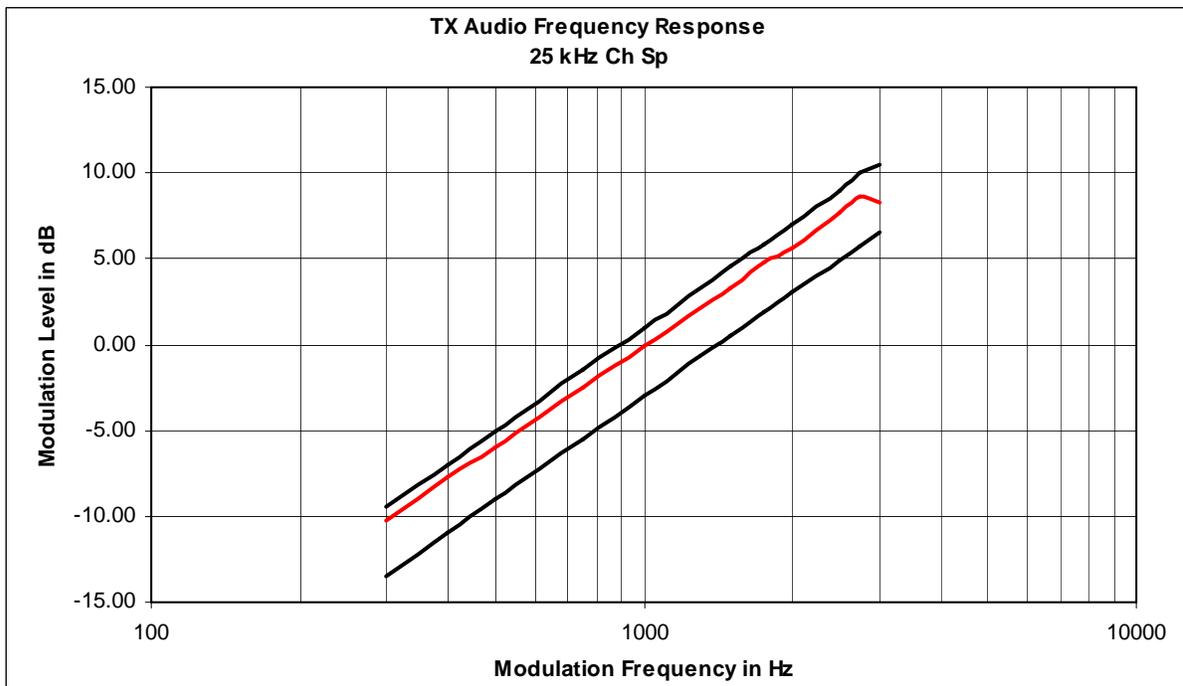


Figure 6B-2: 25 kHz Channel Spacing, 481.0125 MHz, Transmit Audio Frequency Response

EXHIBIT 6C

Transmit Audio Post Limiter Low Pass Filter Response - Pursuant 47 CFR 2.1047 and 2.1033(c)(13)

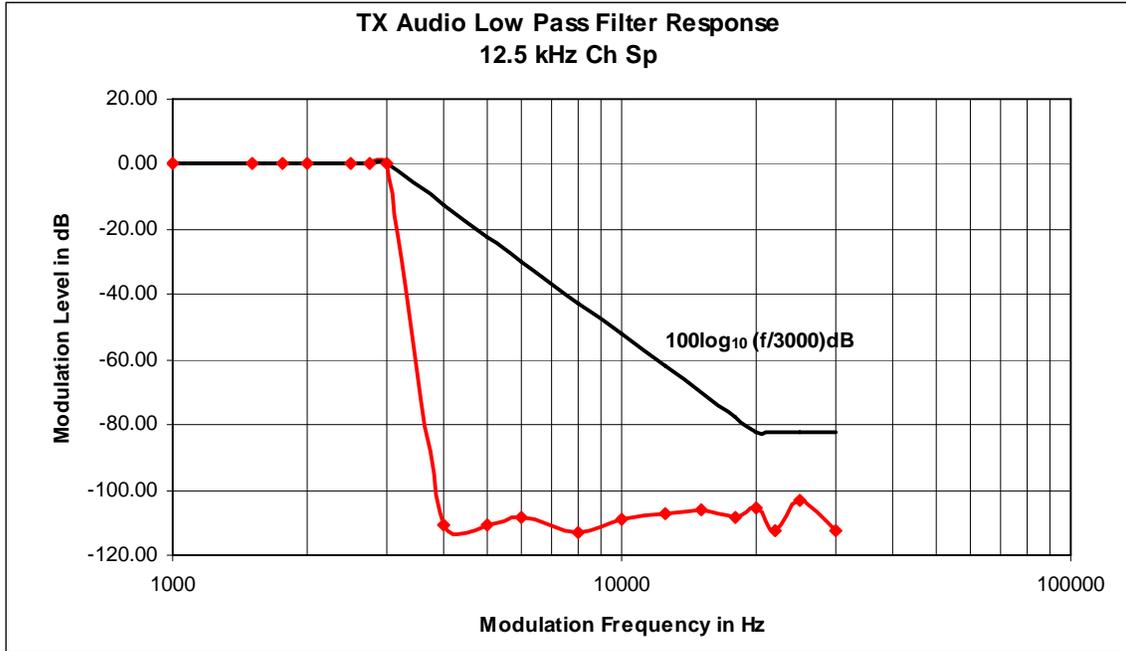


Figure 6C-1: 12.5 kHz Channel Spacing, 481.0125 MHz, Transmit Audio Low Pass Filter Response

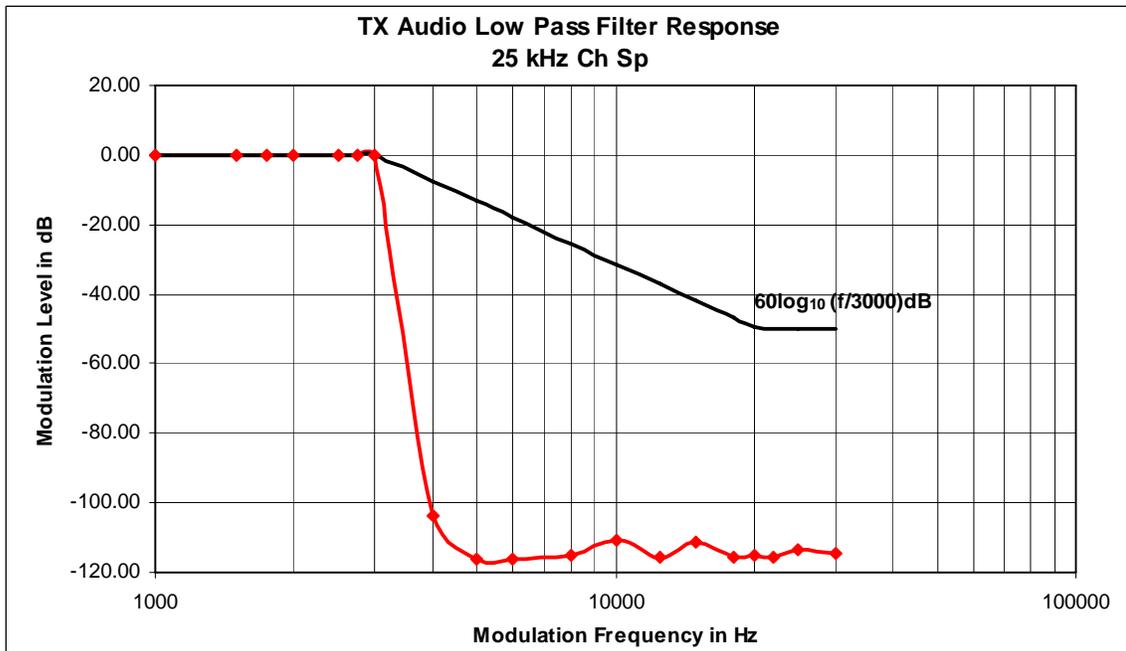


Figure 6C-2: 25 kHz Channel Spacing, 481.0125 MHz, Transmit Audio Low Pass Filter Response

EXHIBIT 6D

Modulation Limiting - Pursuant 47 CFR 2.1047 and 2.1033(c)(13)

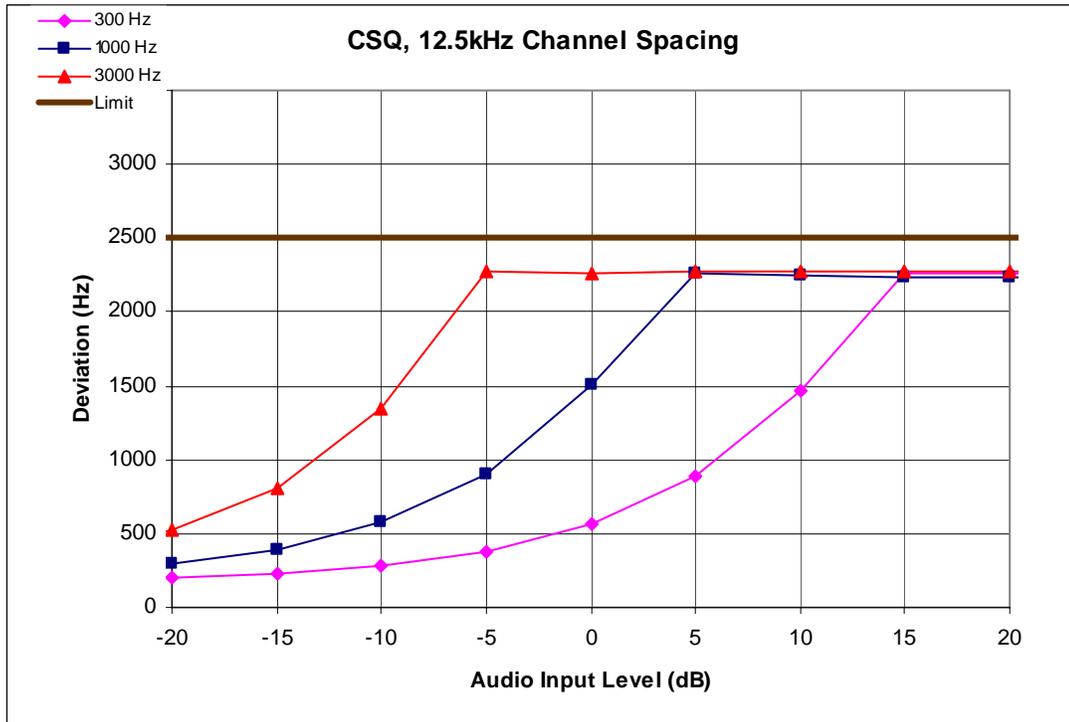


Figure 6D-1: 12.5 kHz Channel Spacing, 481.0125 MHz, Carrier Squelch (CSQ) Mode

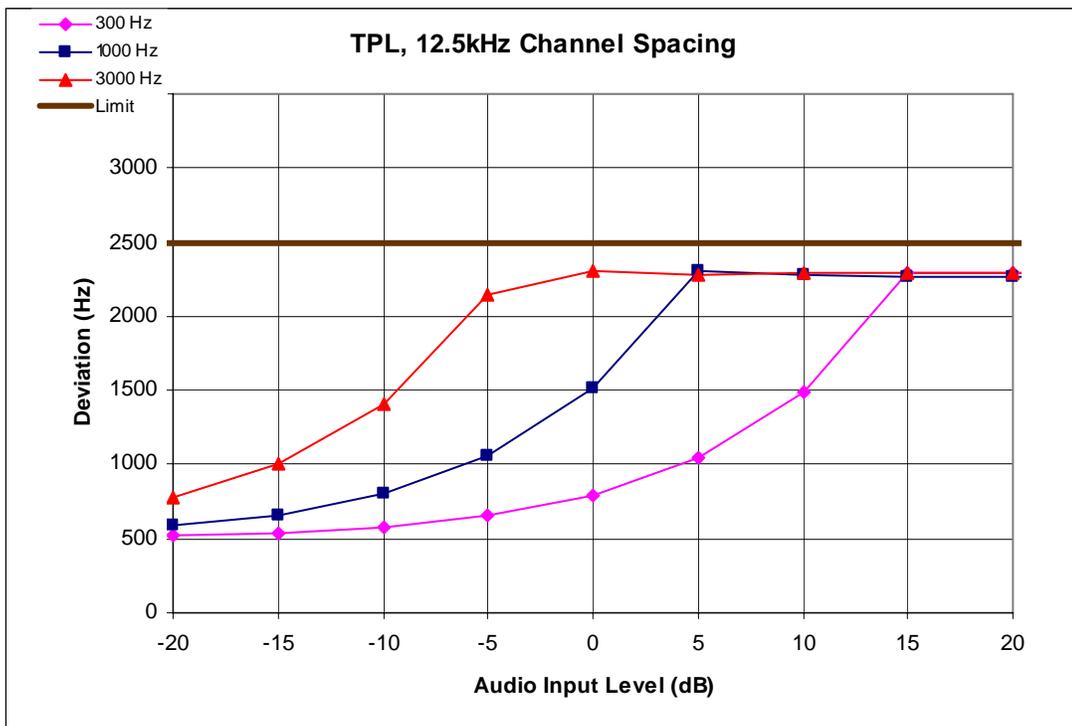


Figure 6D-2: 12.5 kHz Channel Spacing, 481.0125 MHz, Tone Private Line (TPL) Mode

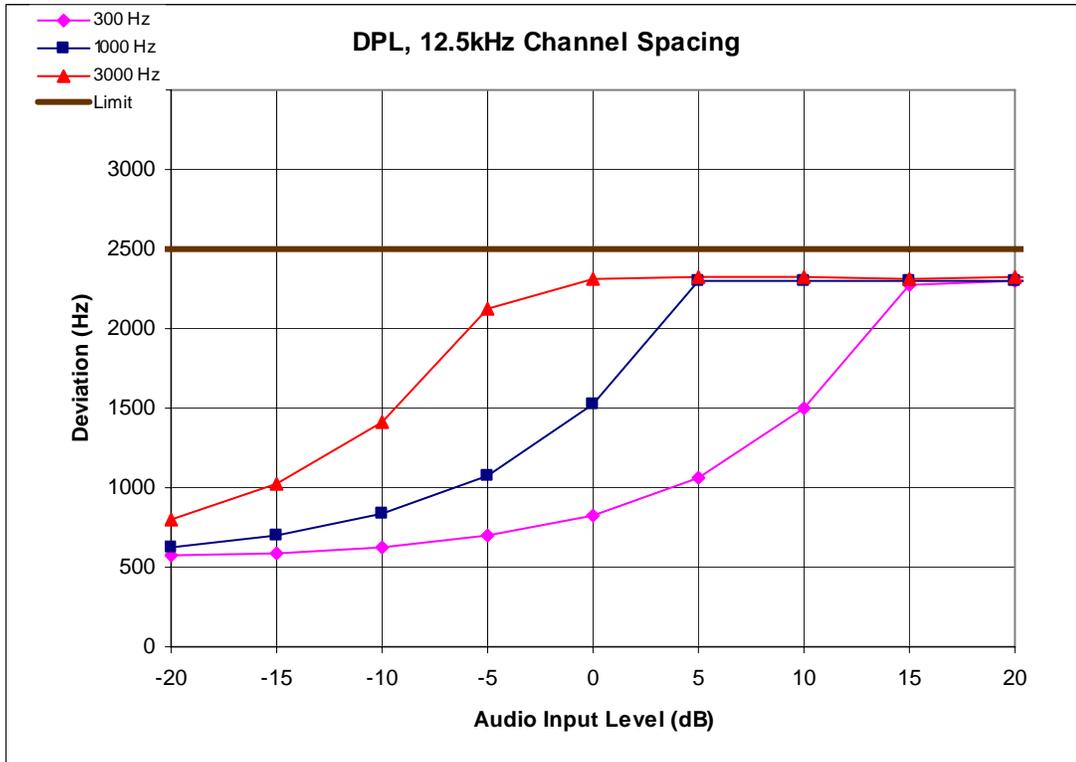


Figure 6D-3: 12.5 kHz Channel Spacing, 481.0125 MHz, Digital Private Line (DPL) Mode

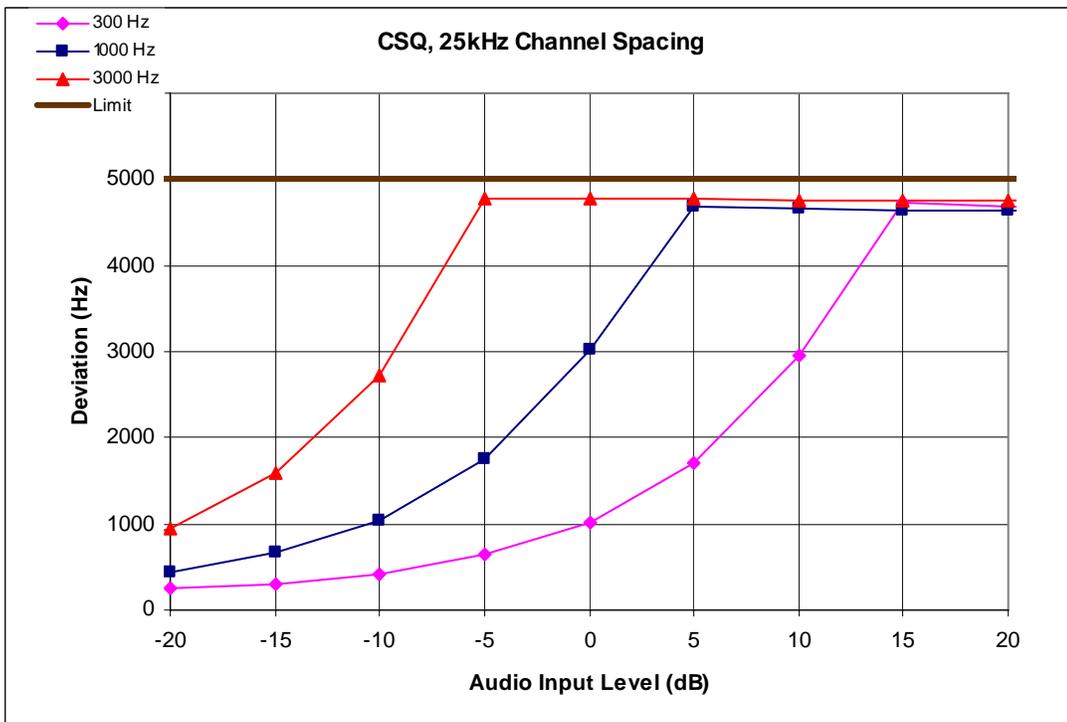


Figure 6D-4: 25 kHz Channel Spacing, 481.0125 MHz, Carrier Squelch (CSQ) Mode

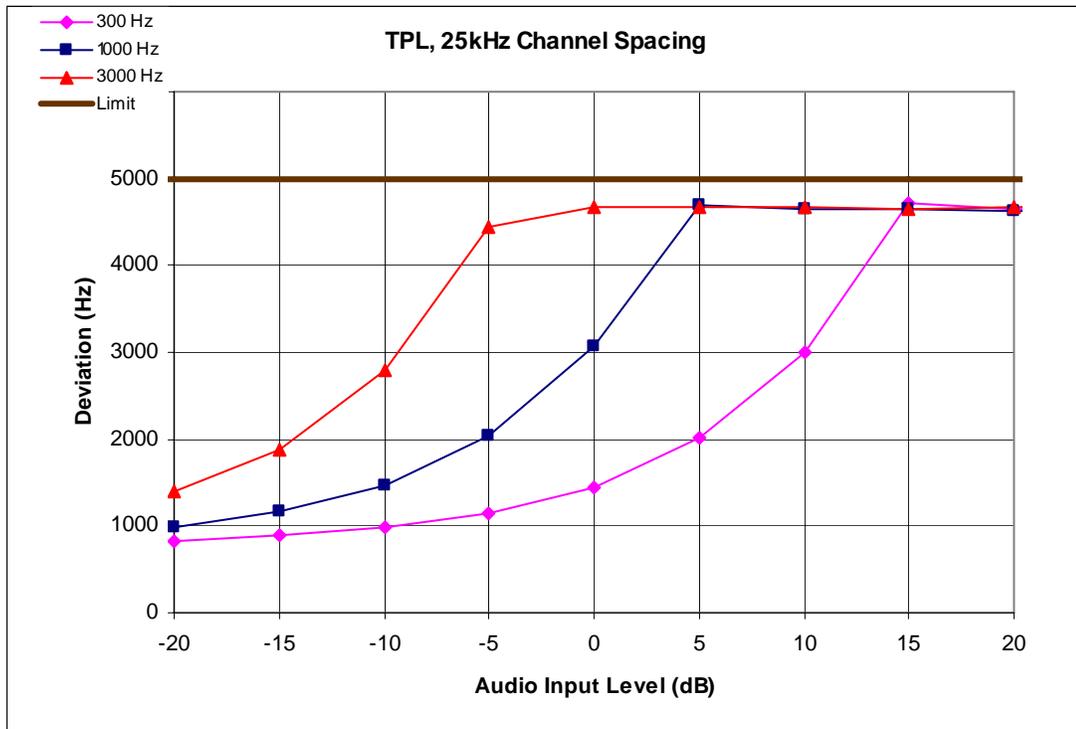


Figure 6D-5: 25 kHz Channel Spacing, 481.0125 MHz, Tone Private Line (TPL) Mode

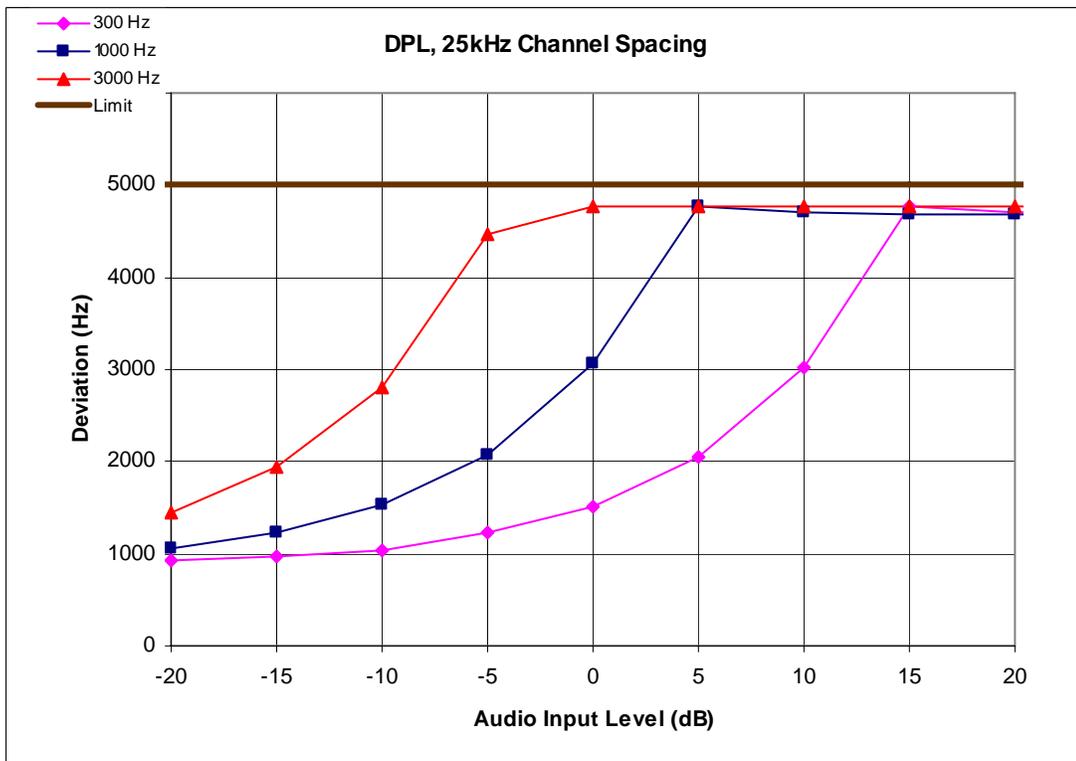


Figure 6D-6: 25 kHz Channel Spacing, 481.0125 MHz, Digital Private Line (DPL) Mode

EXHIBIT 6E

Occupied Bandwidth Data -- Pursuant 47 CFR 2.1049, 90.210(g) and 90.691

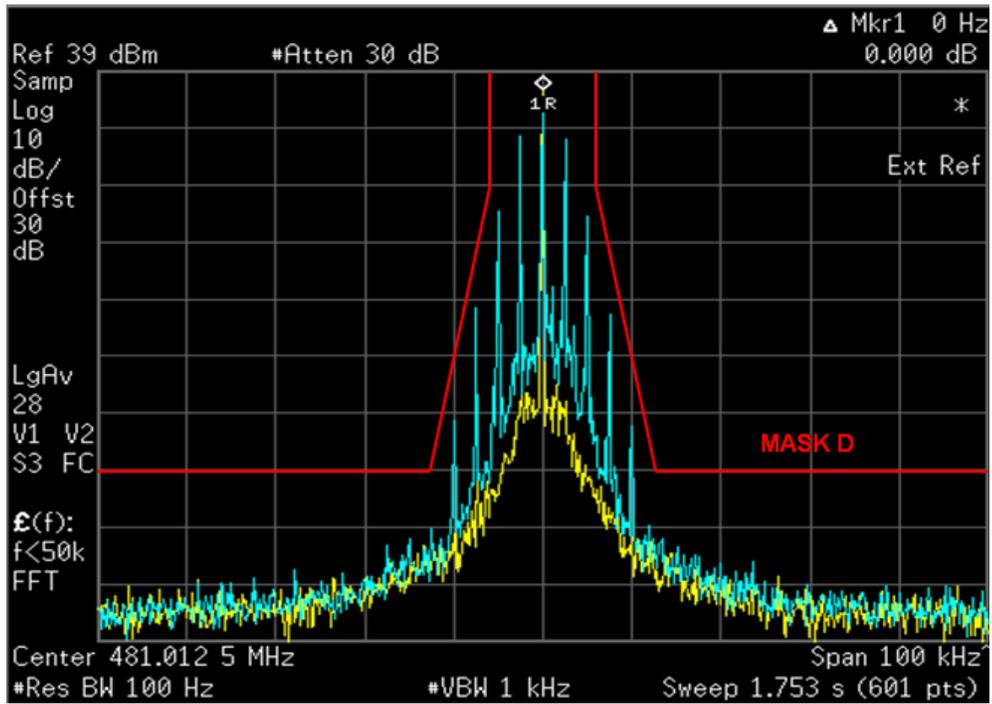


Figure 6E-1: 12.5 kHz Channel Spacing, 2500 Hz Audio Modulation Only, 11K0F3E

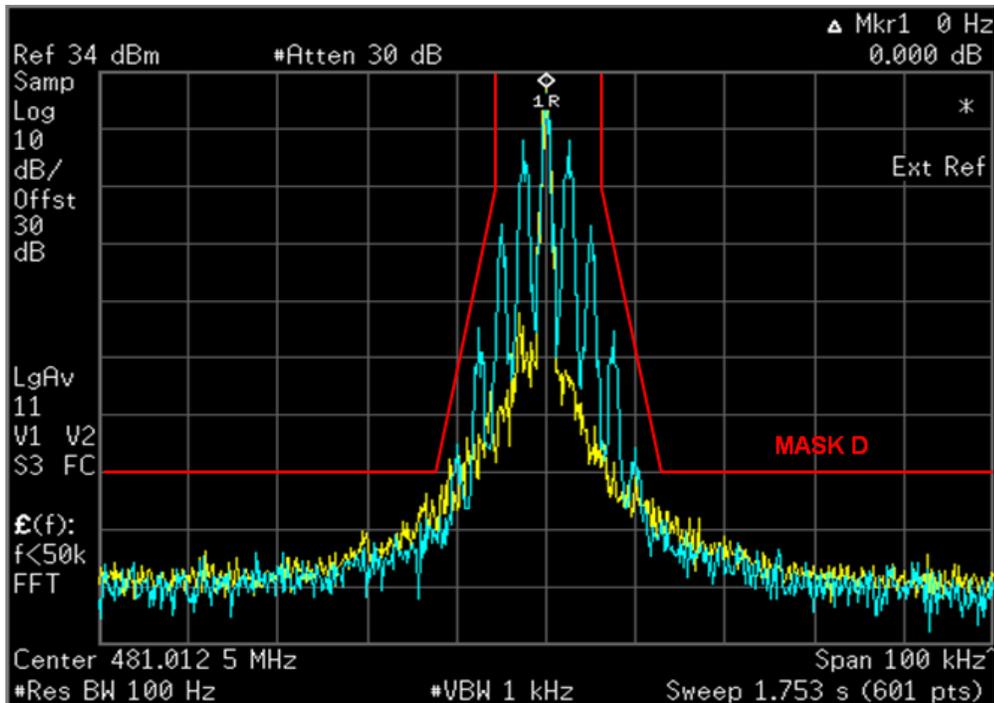


Figure 6E-2: 12.5 kHz Channel Spacing, 2500 Hz Audio and PL Tone Modulation, 11K0F3E

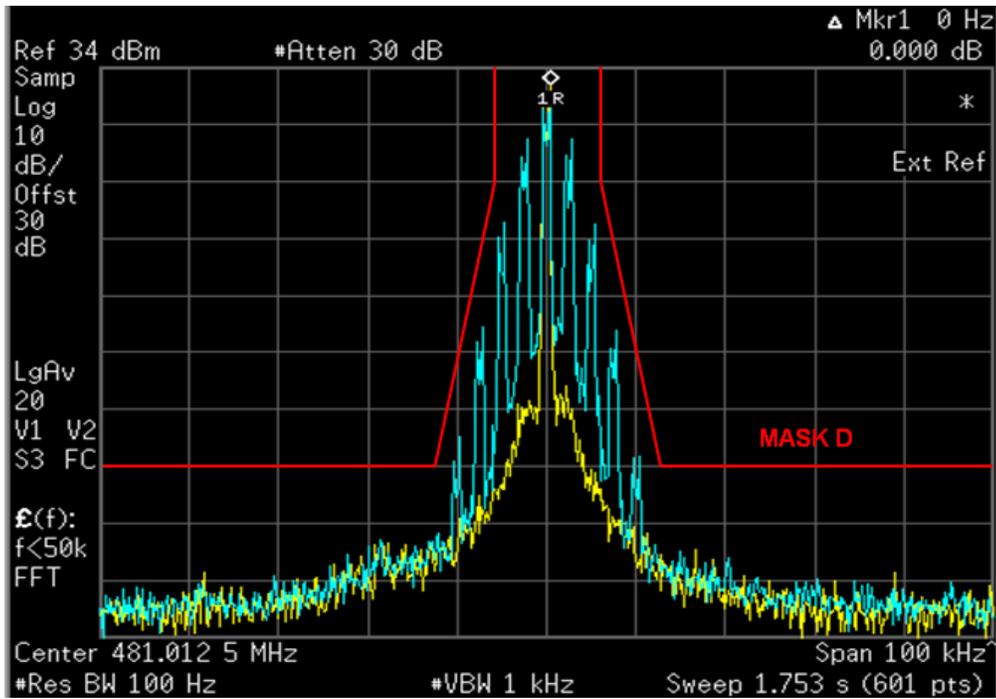


Figure 6E-3: 12.5 kHz Channel Spacing, 2500 Hz Audio and DPL Tone Modulation, 11K0F3E

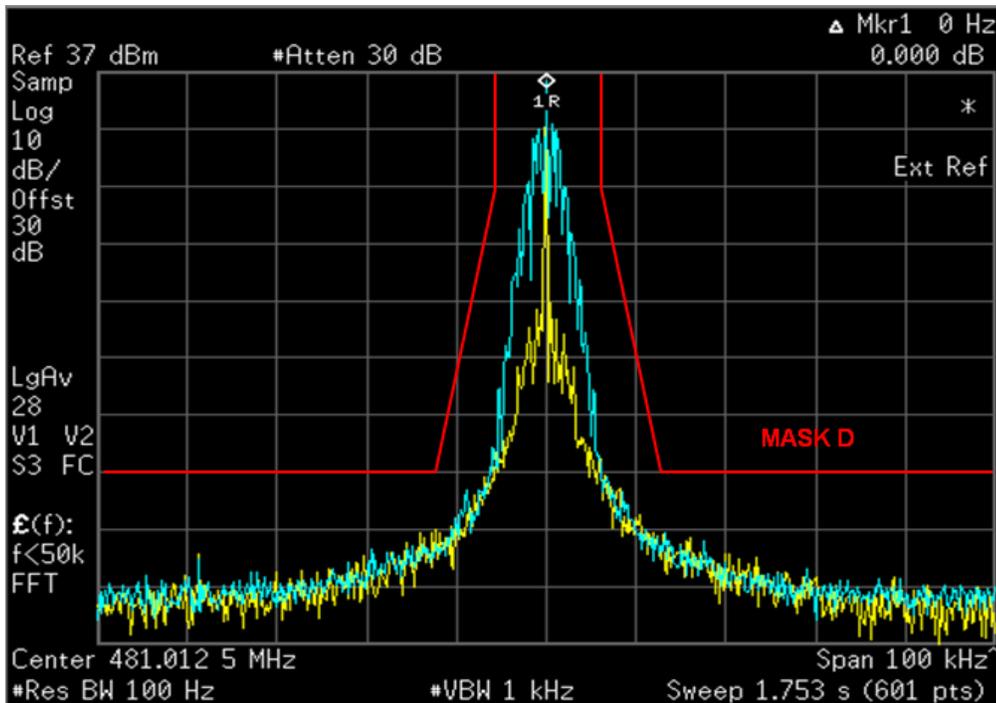


Figure 6E-4: 12.5 kHz Channel Spacing, DTMF Modulation Only, 11K0F3E



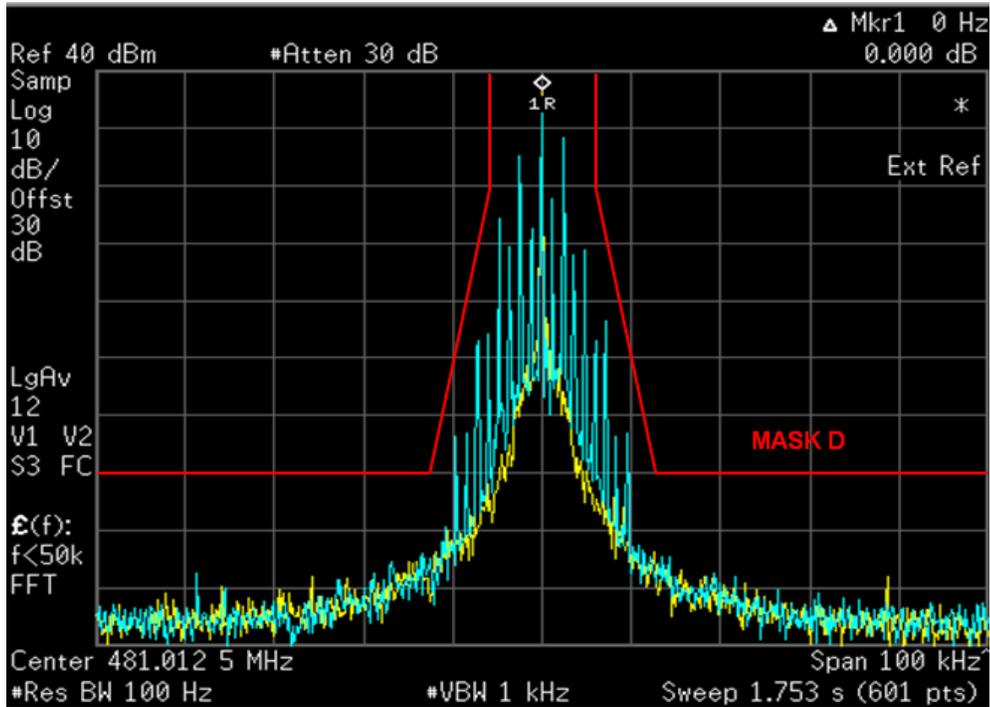


Figure 6E-7: 12.5 kHz Channel Spacing, 2000/3000 Hz FSK Data Modulation Only, 11K0F3E

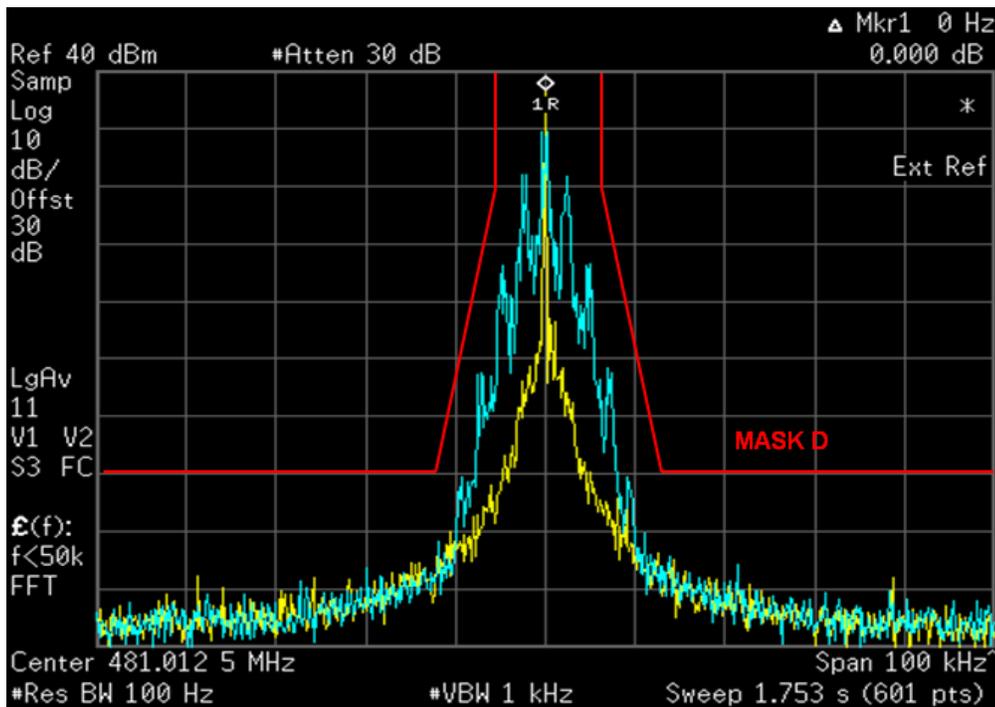


Figure 6E-8: 12.5 kHz Channel Spacing, 2000/3000 Hz FSK Data and PL Tone Modulation, 11K0F3E

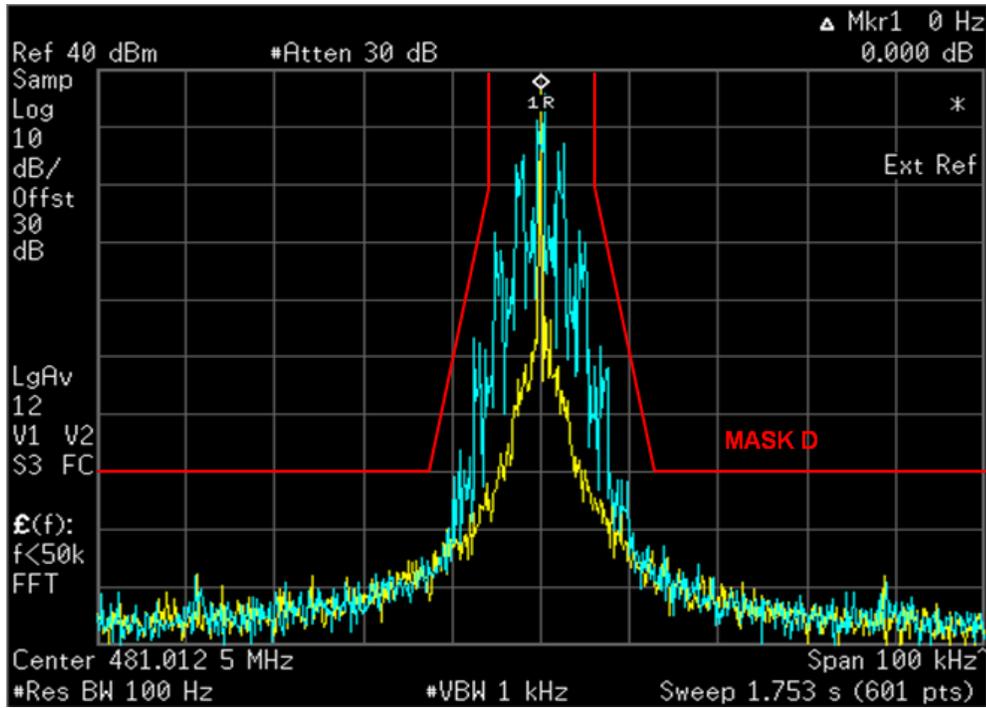


Figure 6E-9: 12.5 kHz Channel Spacing, 2000/3000 Hz FSK Data and DPL Tone Modulation, 11K0F3E

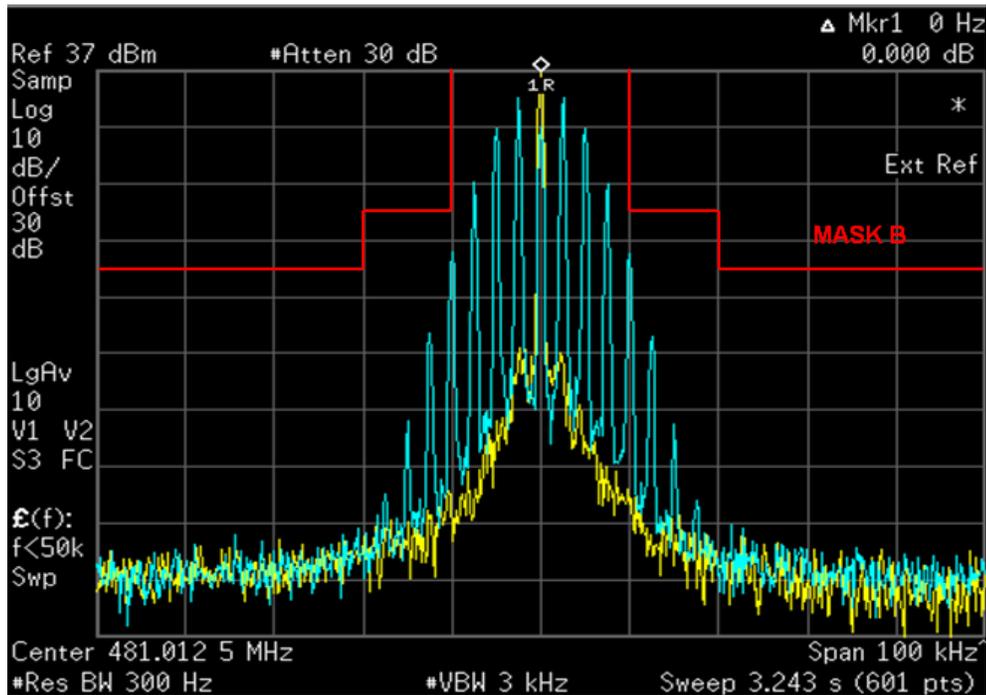


Figure 6E-10: 25 kHz Channel Spacing, 2500 Hz Audio Modulation Only, 16K0F3E

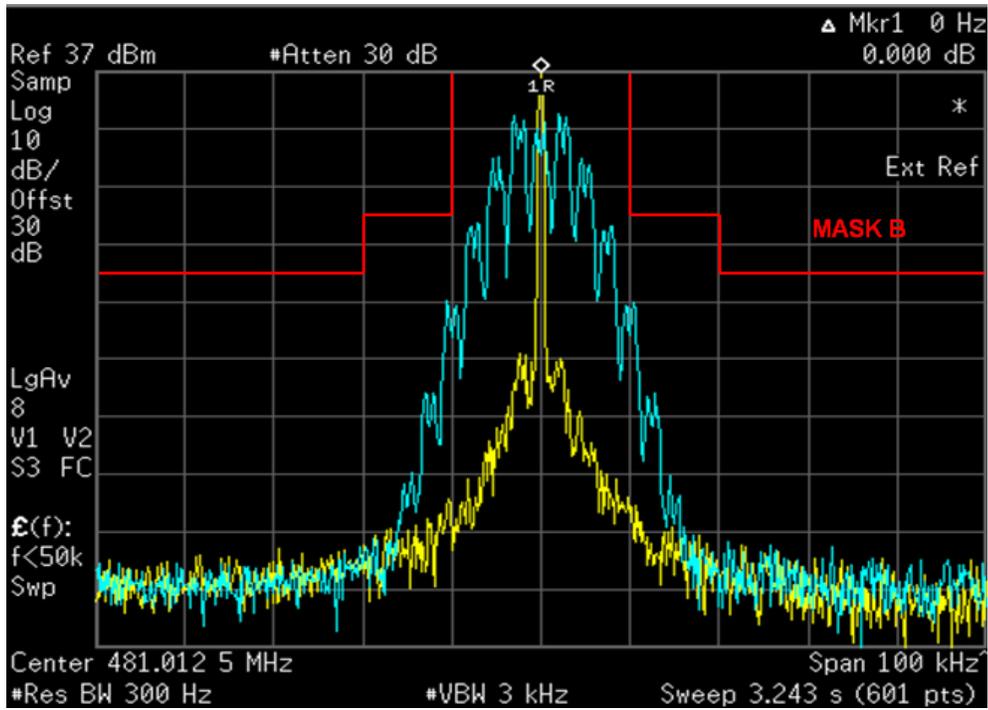


Figure 6E-11: 25 kHz Channel Spacing, 2500 Hz Audio and PL Tone Modulation, 16K0F3E

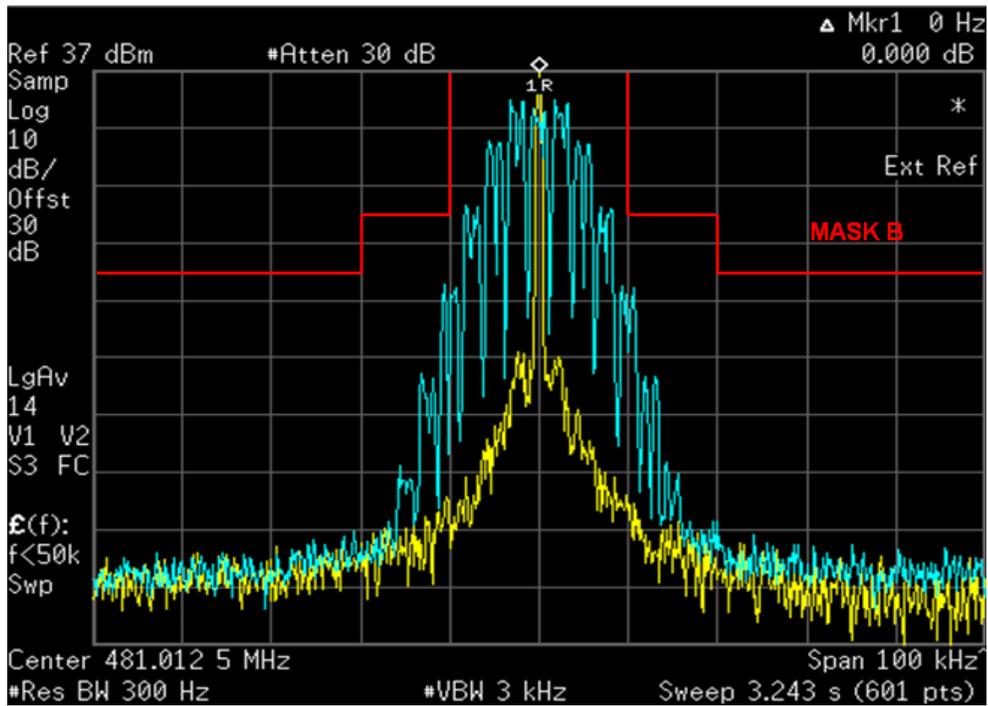


Figure 6E-12: 25 kHz Channel Spacing, 2500 Hz Audio and DPL Tone Modulation, 16K0F3E

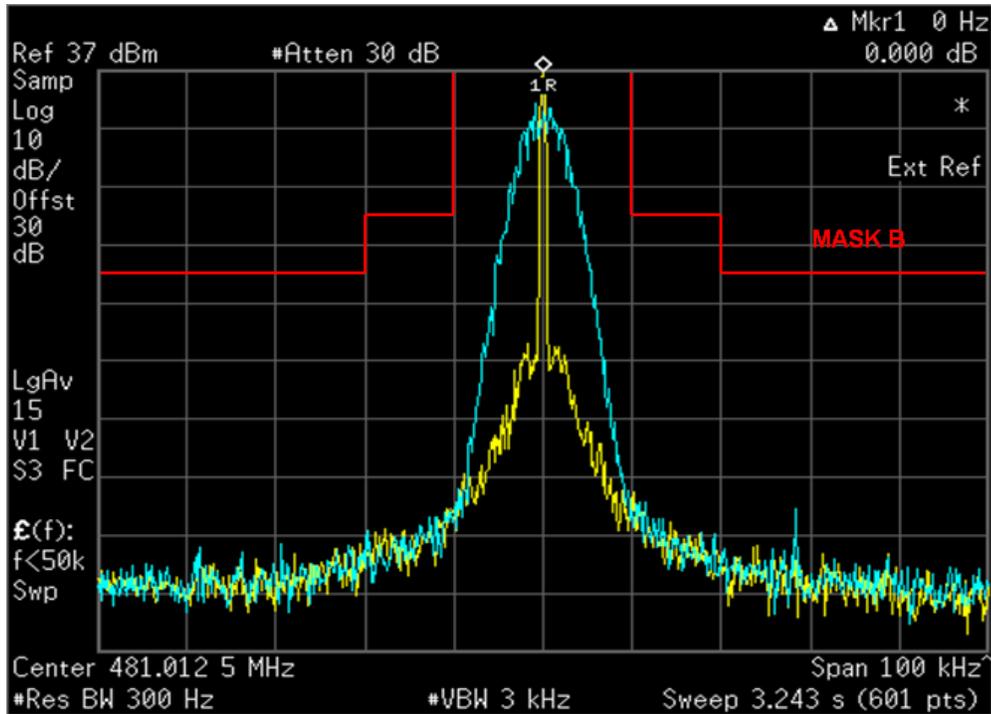


Figure 6E-13: 25 kHz Channel Spacing, DTMF Modulation Only, 16K0F3E

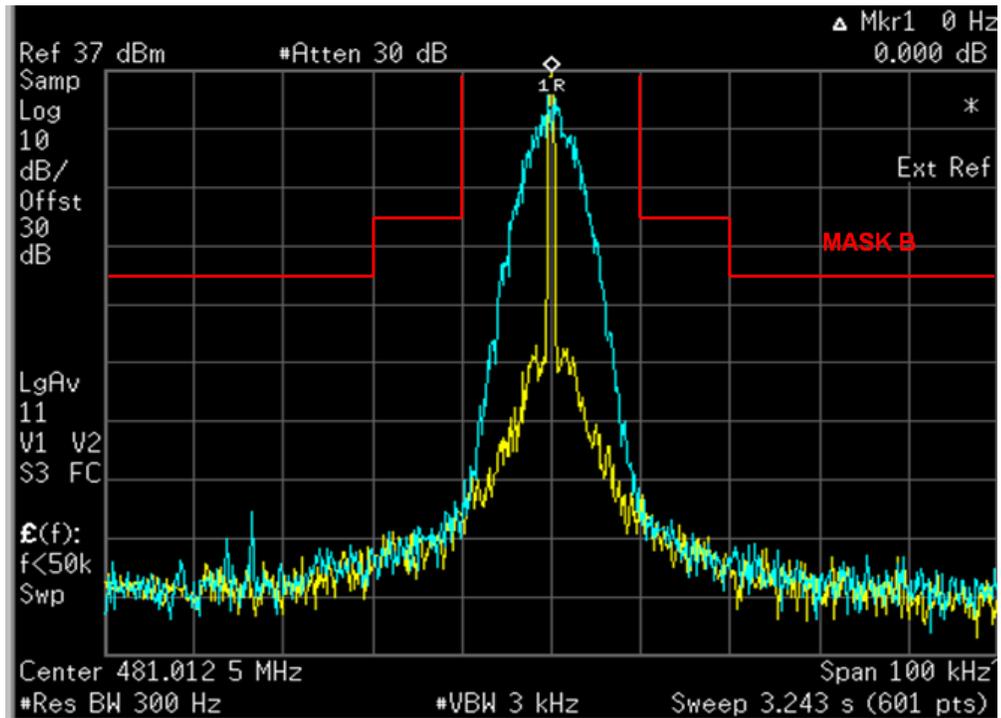


Figure 6E-14: 25 kHz Channel Spacing, DTMF and PL Tone Modulation, 16K0F3E

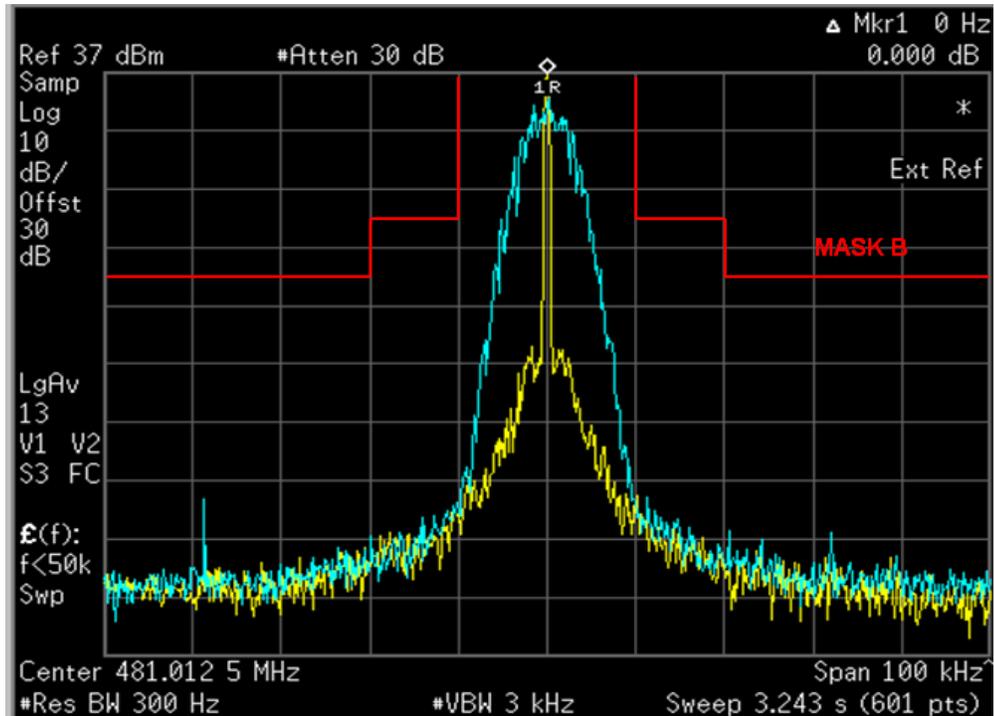


Figure 6E-15: 25 kHz Channel Spacing, DTMF and DPL Tone Modulation, 16K0F3E

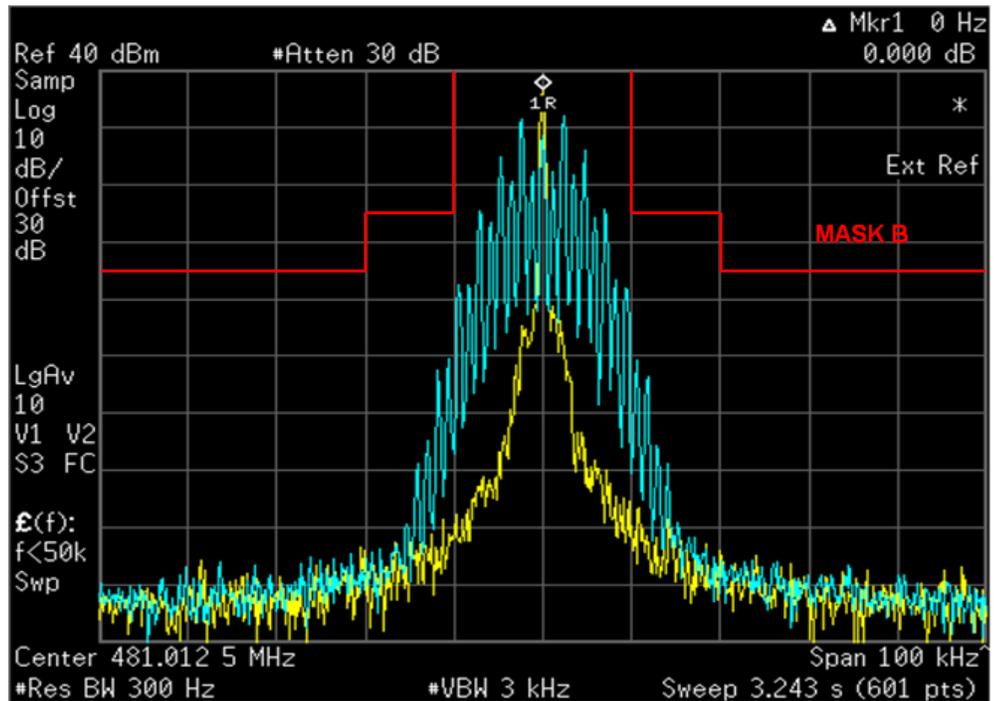


Figure 6E-16: 25 kHz Channel Spacing, 2000/3000 Hz FSK Data Modulation Only, 16K0F3E

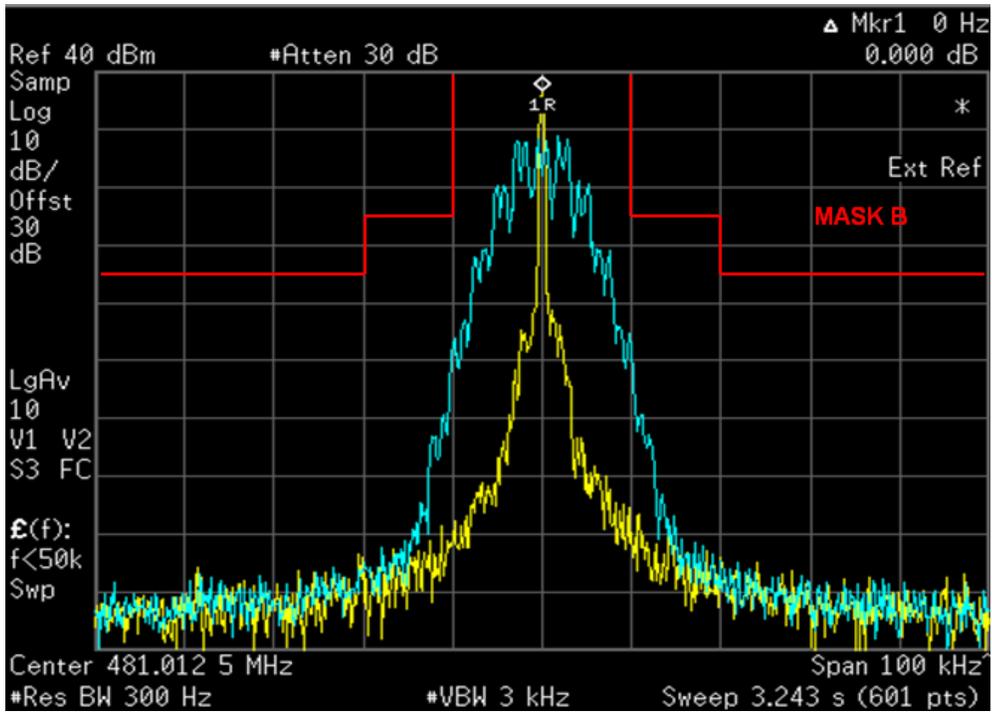


Figure 6E-17: 25 kHz Channel Spacing, 2000/3000 Hz FSK Data and PL Tone Modulation, 16K0F3E

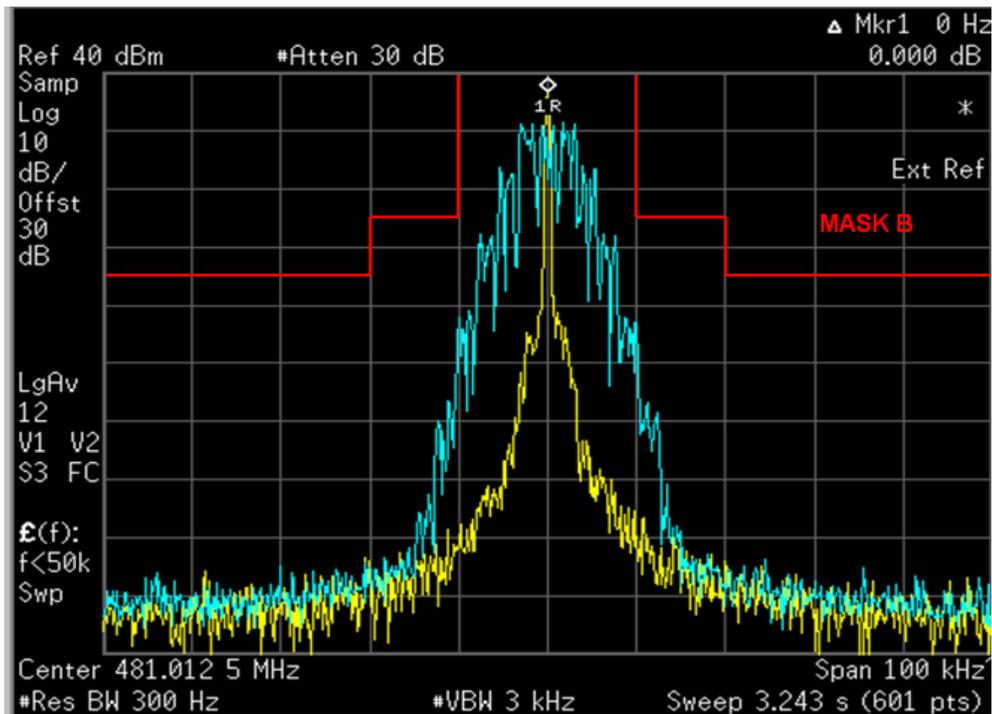


Figure 6E-18: 25 kHz Channel Spacing, 2000/3000 Hz FSK Data and DPL Tone Modulation, 16K0F3E

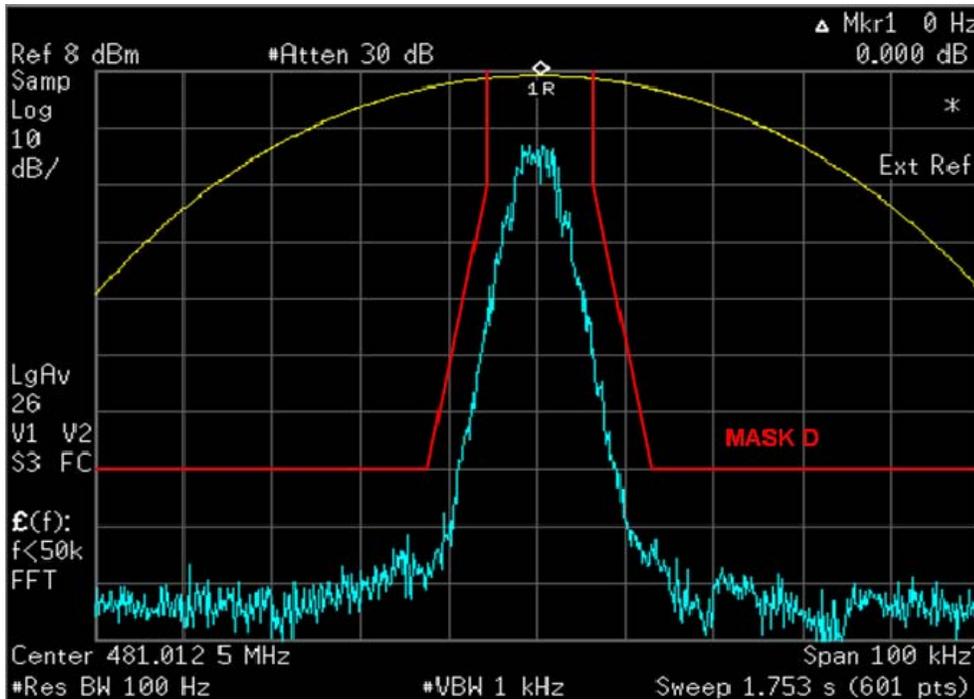


Figure 6E-19: O.153 Test Pattern 4FSK Voice and Data Modulation, 7K60FXE

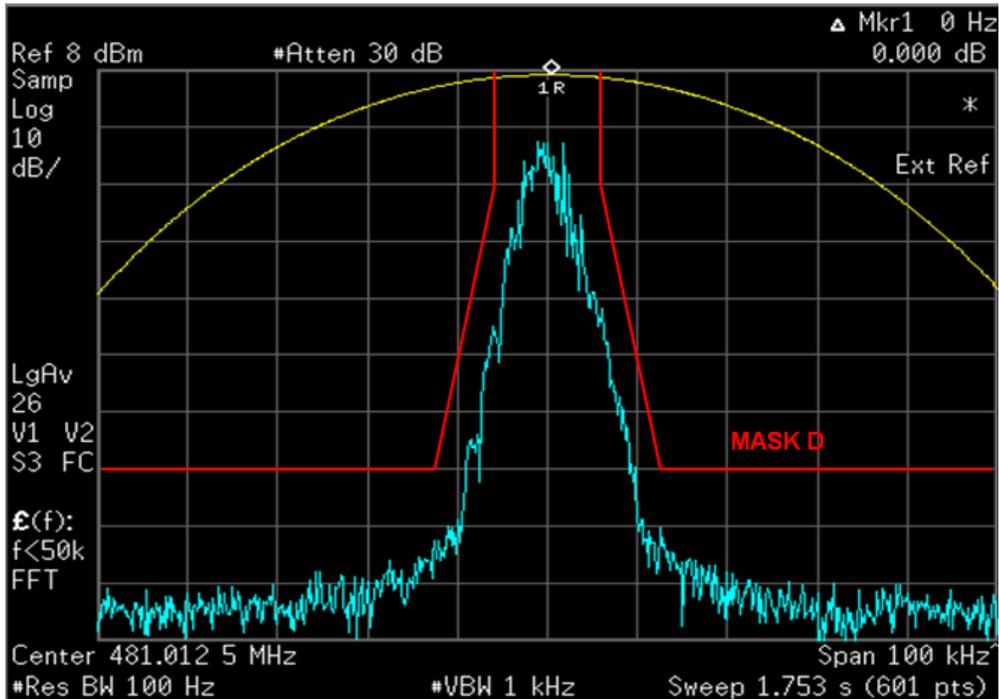


Figure 6E-20: O.153 Test Pattern 4FSK Data Modulation Only, 7K60FXD

EXHIBIT 6F

Transmitter Conducted Spurious Emissions - Pursuant 47 CFR 2.1047 and 2.1033(c) (13)

Note: Display lines on graphs correspond to the FCC limit of -13dBm (25 kHz) & -20 dBm (12.5 kHz).

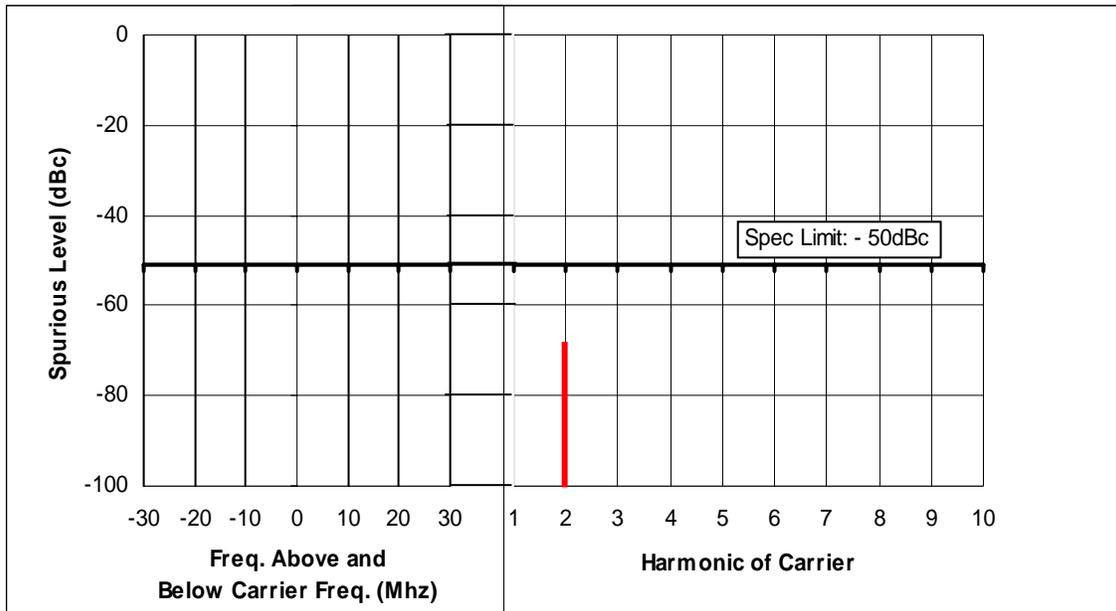


Table 6F-1: 1 Watt Harmonic of Carrier 450.0125 MHz, 12.5 kHz Channel Spacing

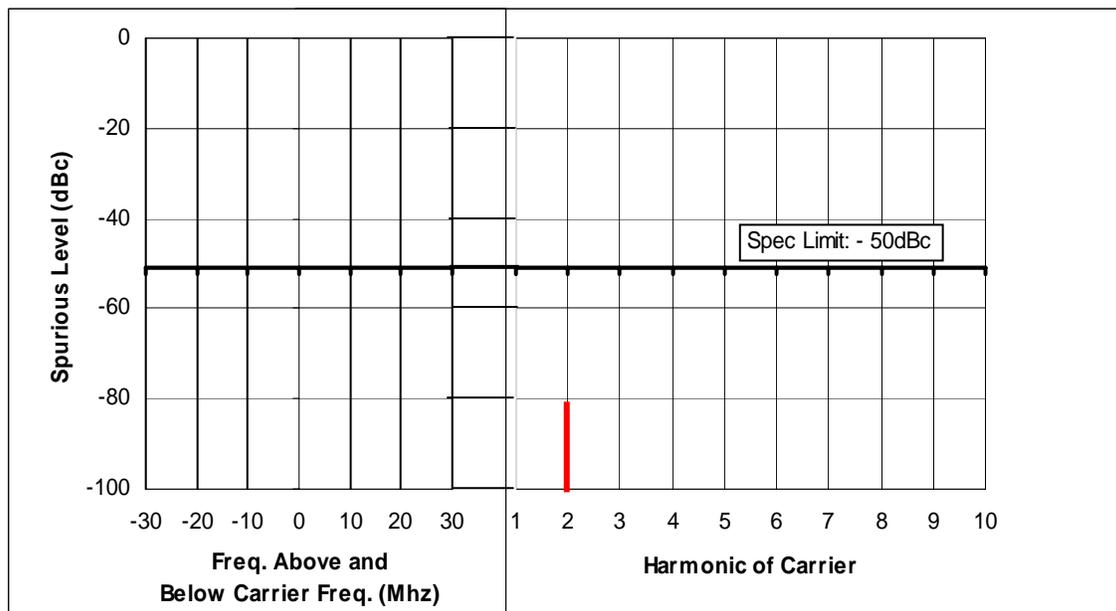
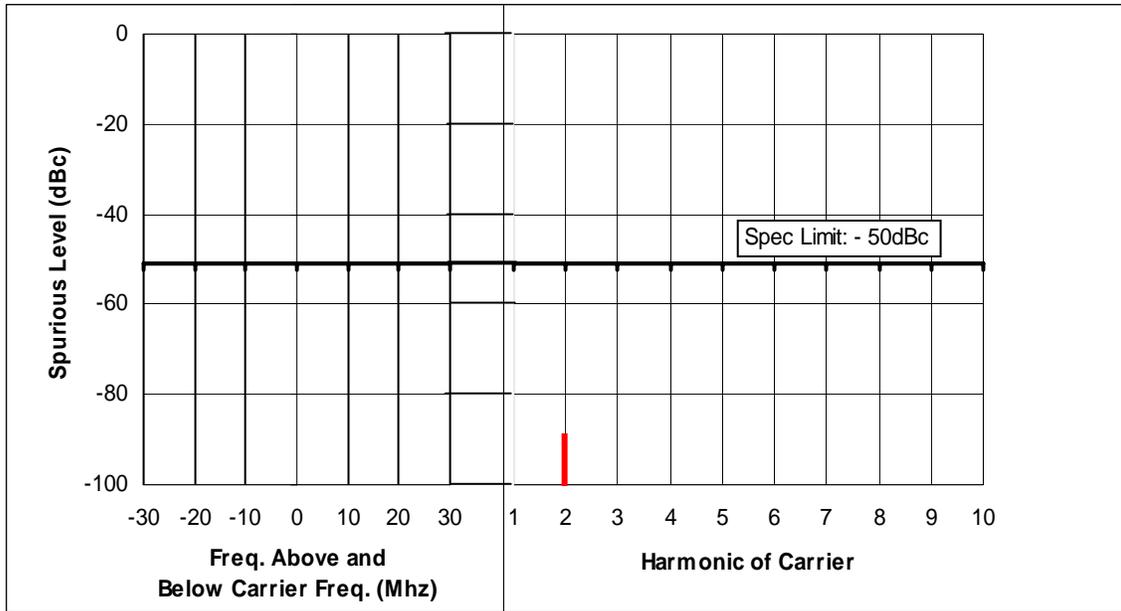
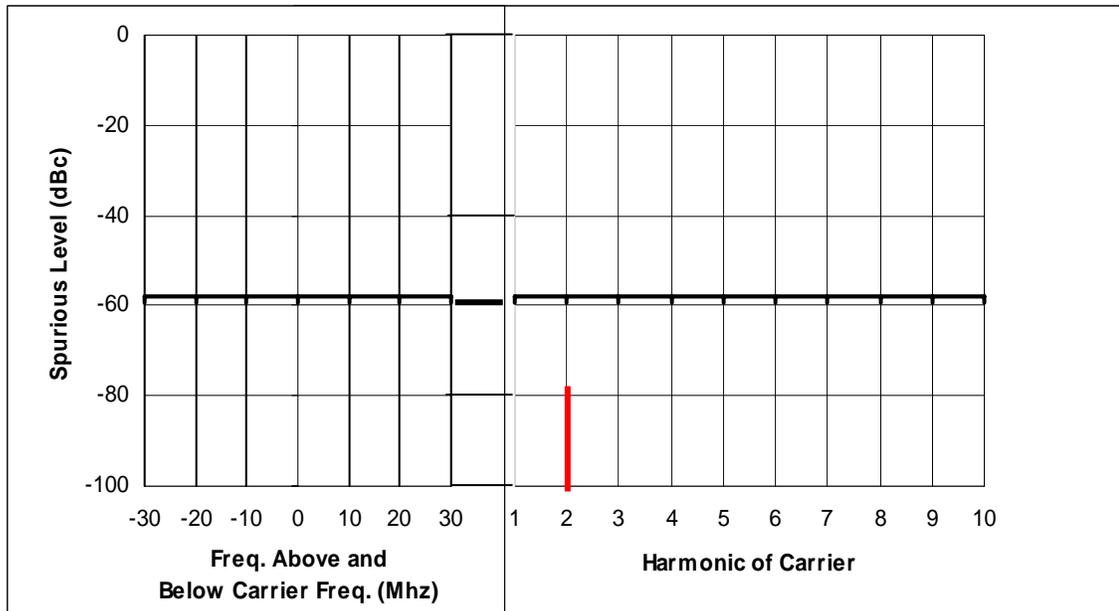


Table 6F-2: 1 Watt Harmonic of Carrier 481.0125 MHz, 12.5 kHz Channel Spacing

Note: Spurs which are not shown is 50 dB below the specification limits.



**Table 6F-3:** 1 Watt Harmonic of Carrier 511.9875 MHz, 12.5 kHz Channel Spacing



**Table 6F-4:** 4.8 Watts Harmonic of Carrier 450.0125 MHz, 12.5 kHz Channel Spacing

Note: Spurs which are not shown is 43 dB below the specification limits.

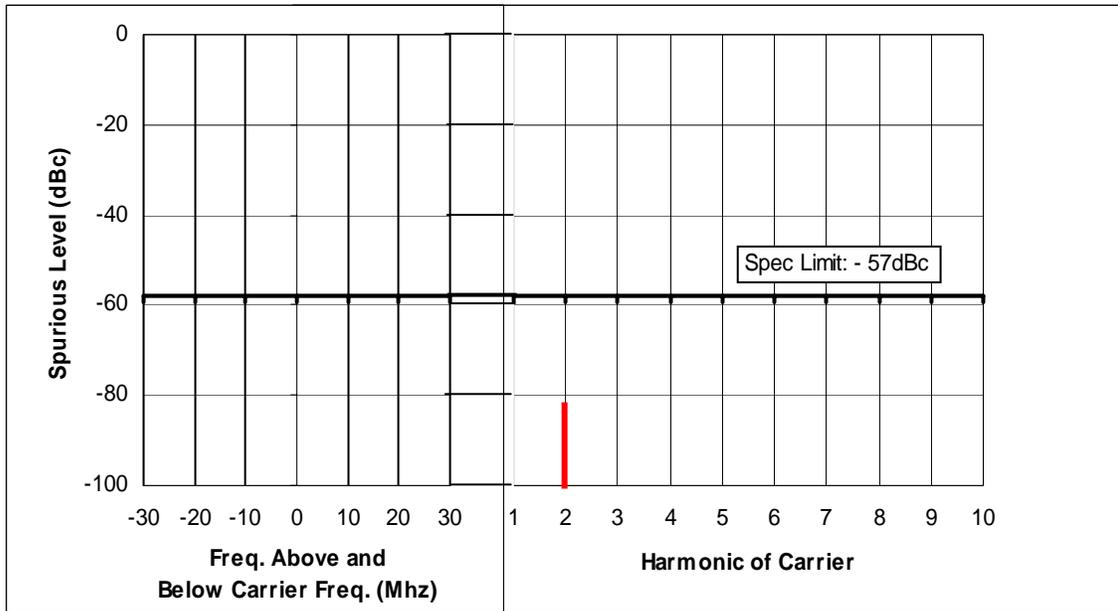


Table 6F-5: 4.8 Watts Harmonic of Carrier 481.0125 MHz, 12.5 kHz Channel Spacing

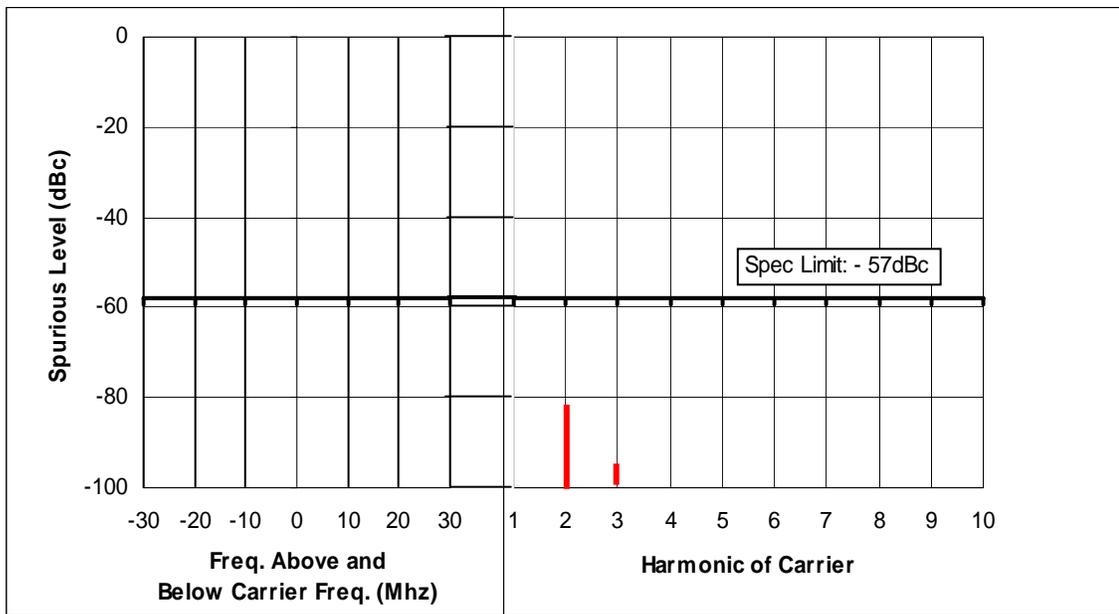
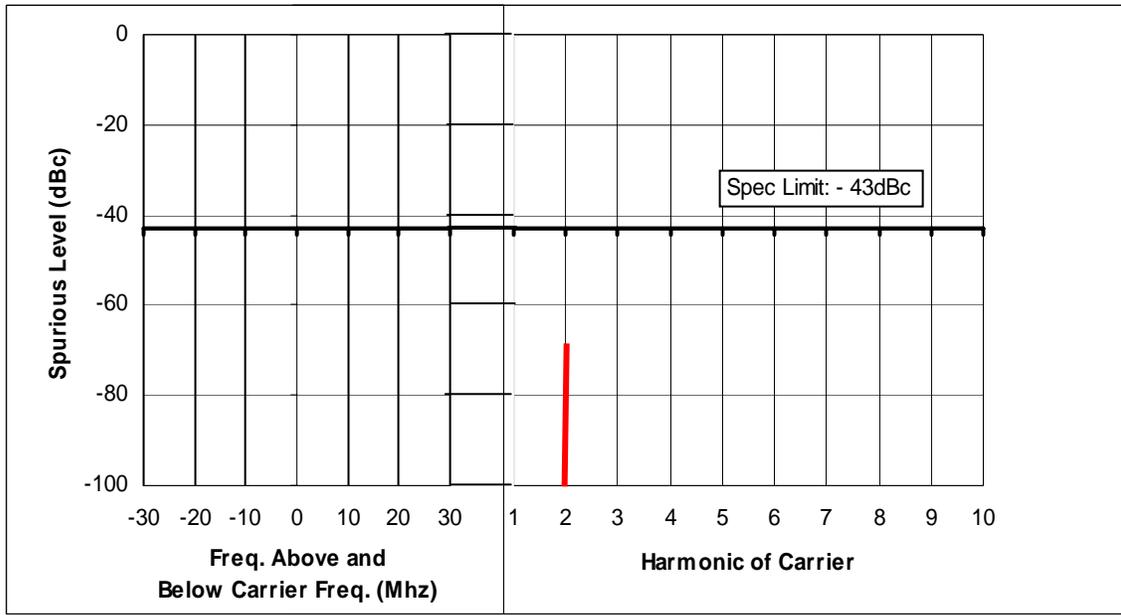
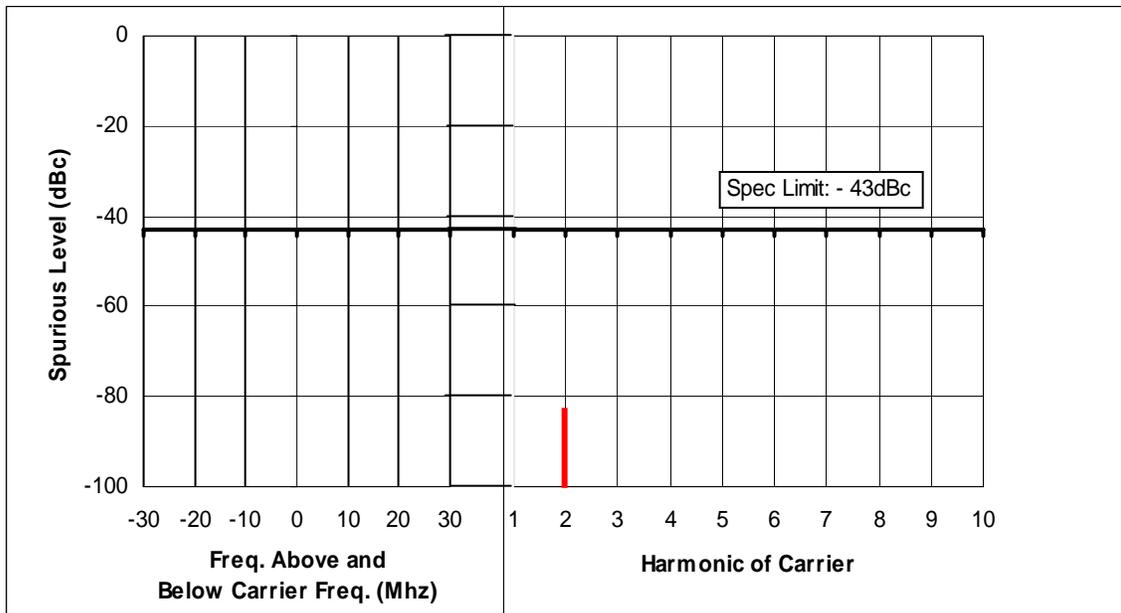


Table 6F-6: 4.8 Watts Harmonic of Carrier 511.9875 MHz, 12.5 kHz Channel Spacing

Note: Spurs which are not shown is 43 dB below the specification limits.



**Table 6F-7:** 1 Watt Harmonic of Carrier 450.0125 MHz, 25 kHz Channel Spacing



**Table 6F-8:** 1 Watt Harmonic of Carrier 481.0125 MHz, 25 kHz Channel Spacing

Note: Spurs which are not shown is 57 dB below the specification limits.

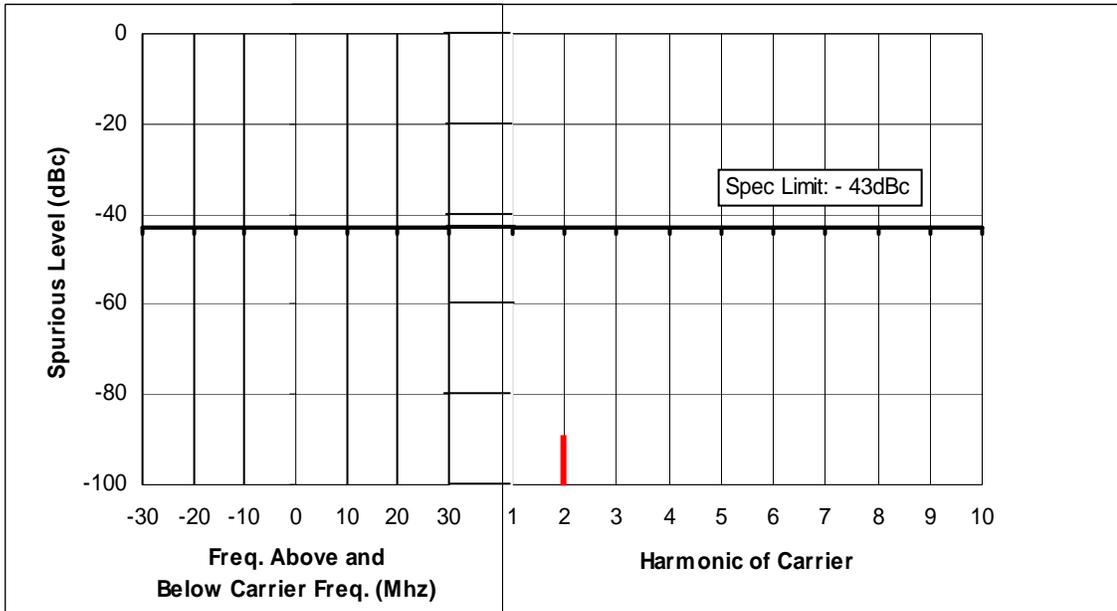


Table 6F-9: 1 Watt Harmonic of Carrier 511.9875 MHz, 25 kHz Channel Spacing

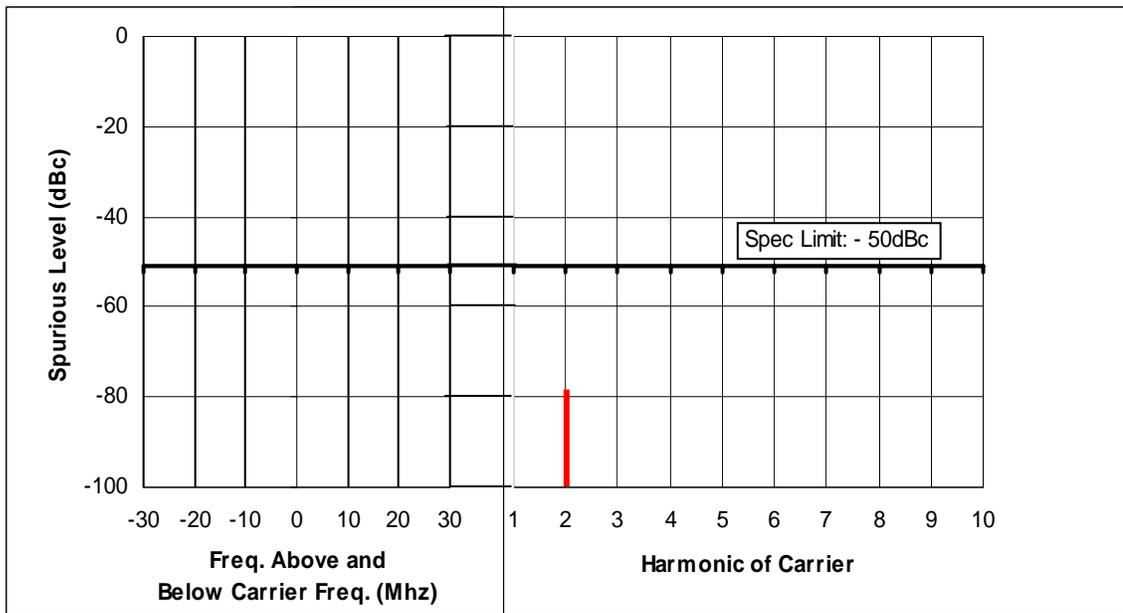
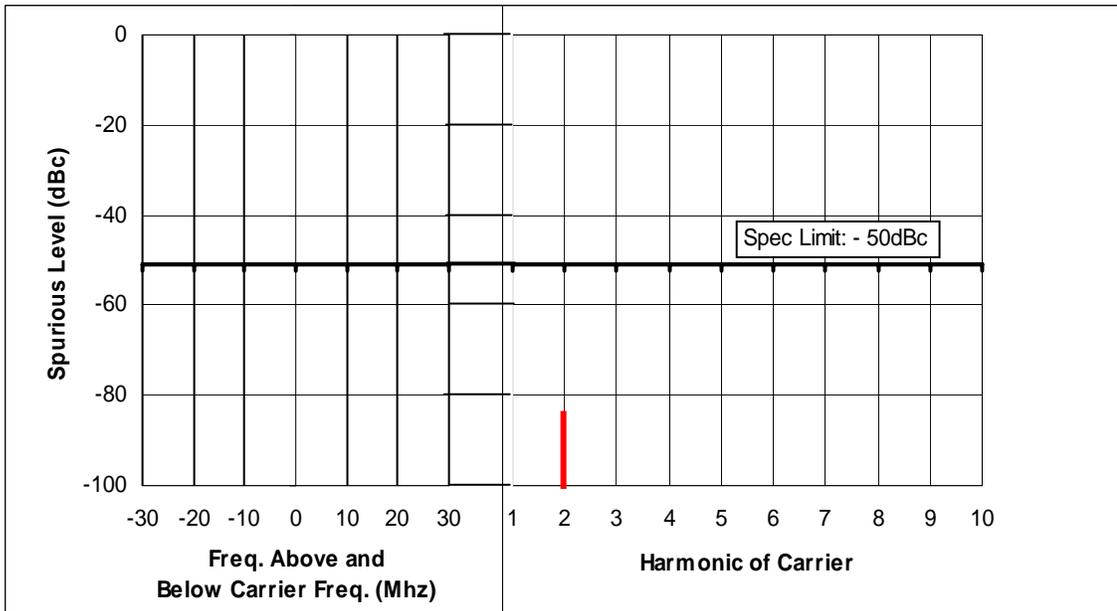
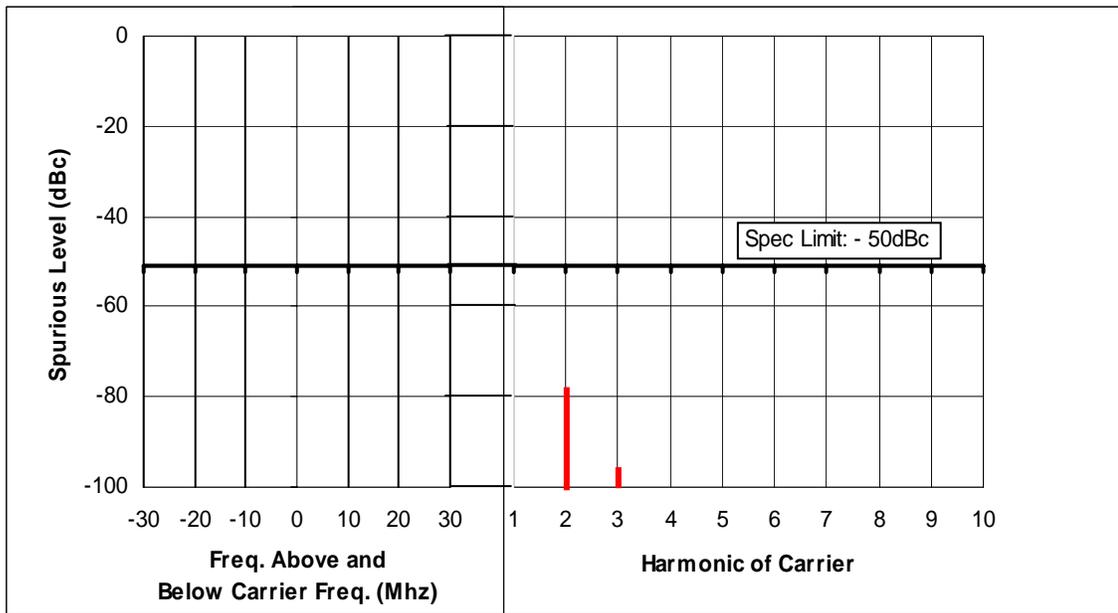


Table 6F-10: 4.8 Watts Harmonic of Carrier 450.0125 MHz, 25 kHz Channel Spacing

Note: Spurs which are not shown is 50 dB below the specification limits.



**Table 6F-11:** 4.8 Watts Harmonic of Carrier 481.0125 MHz, 25 kHz Channel Spacing



**Table 6F-12:** 4.8 Watts Harmonic of Carrier 511.9875 MHz, 25 kHz Channel Spacing

Note: Spurs which are not shown is 50 dB below the specification limits.