

EXHIBIT 6

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

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6H-1 – 1.5 ppm Frequency Stability vs. Temperature
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6I-1-1: 1.5 ppm, 1 Watt, 12.5 kHz Key-Up Attack Time
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6I-1-6: 1.5 ppm, 4.8 Watts, 12.5 kHz De-Key Decay Time
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6I-1-8: 1.5 ppm, 4.8 Watts, 25 kHz De-Key Decay Time
6I-1-9: 0.5 ppm, 1 Watt, 12.5 kHz Key-Up Attack Time
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6I-1-12: 0.5 ppm, 1 Watt, 25 kHz De-Key Decay Time
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6I-1-15: 0.5 ppm, 4.8 Watts, 25 kHz Key-Up Attack Time
6I-1-16: 0.5 ppm, 4.8 Watts, 25 kHz De-Key Decay Time

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 403.0125 MHz:

Output RF power	4.80 Watts
DC Voltage	7.27 Volts
DC Current	1.47 Amps
DC Input Power	10.69 Watts

At minimum output power setting, Frequency 403.0125 MHz:

Output RF power	1.11 Watts
DC Voltage	7.48 Volts
DC Current	0.49 Amps
DC Input Power	3.67 Watts

At maximum output power setting, Frequency 436.0125 MHz:

Output RF power	4.80 Watts
DC Voltage	7.32 Volts
DC Current	1.49 Amps
DC Input Power	10.91 Watts

At minimum output power setting, Frequency 436.0125 MHz:

Output RF power	1.10 Watts
DC Voltage	7.48 Volts
DC Current	0.54 Amps
DC Input Power	4.04 Watts

At maximum output power setting, Frequency 469.9875 MHz:

Output RF power	4.80 Watts
DC Voltage	7.27 Volts
DC Current	1.45 Amps
DC Input Power	10.54 Watts

At minimum output power setting, Frequency 469.9875 MHz:

Output RF power	1.10 Watts
DC Voltage	7.48 Volts
DC Current	0.45 Amps
DC Input Power	4.02 Watts

EXHIBIT 6B

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

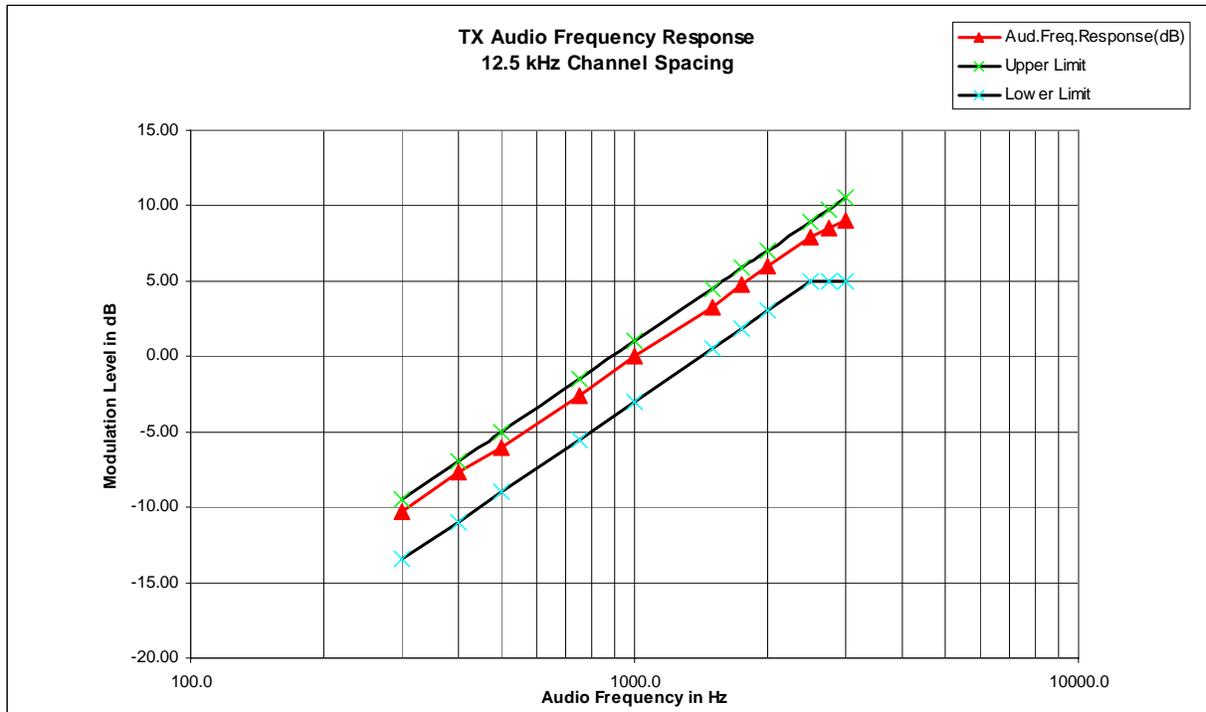


Figure 6B-1: 12.5 kHz Channel Spacing, 436.0125 MHz, Transmit Audio Frequency Response

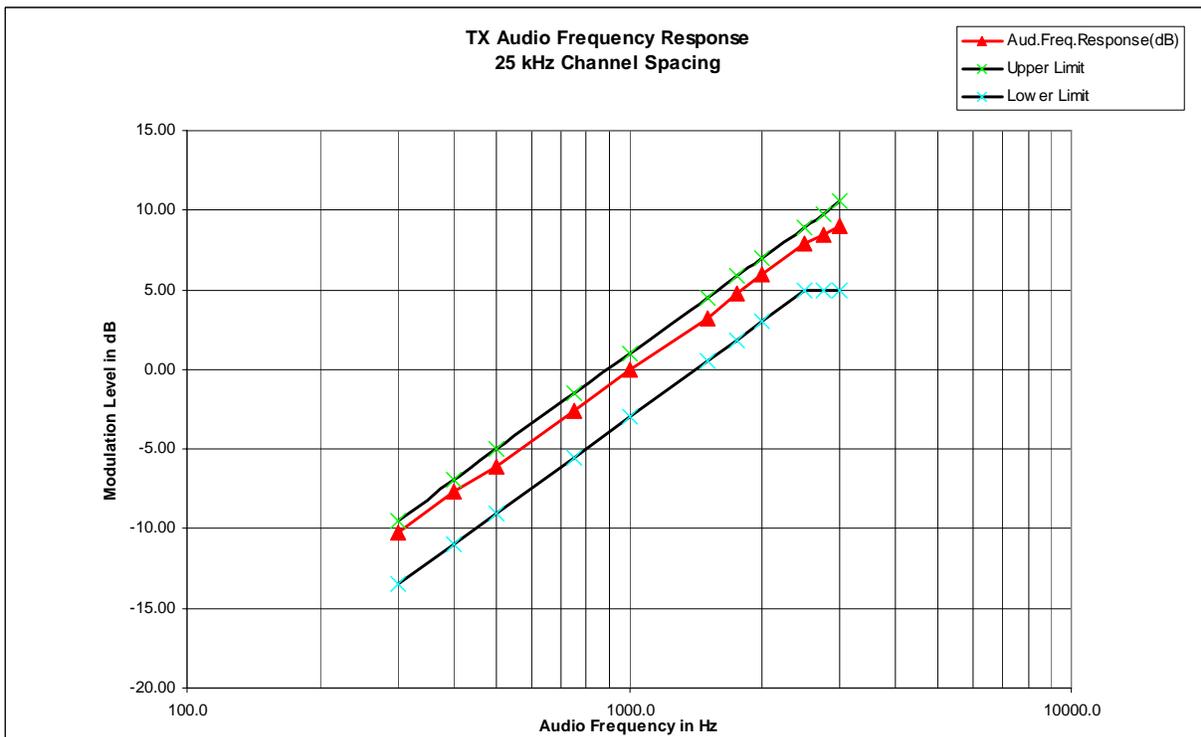


Figure 6B-2: 25 kHz Channel Spacing, 436.0125 MHz, Transmit Audio Frequency Response

EXHIBIT 6C

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

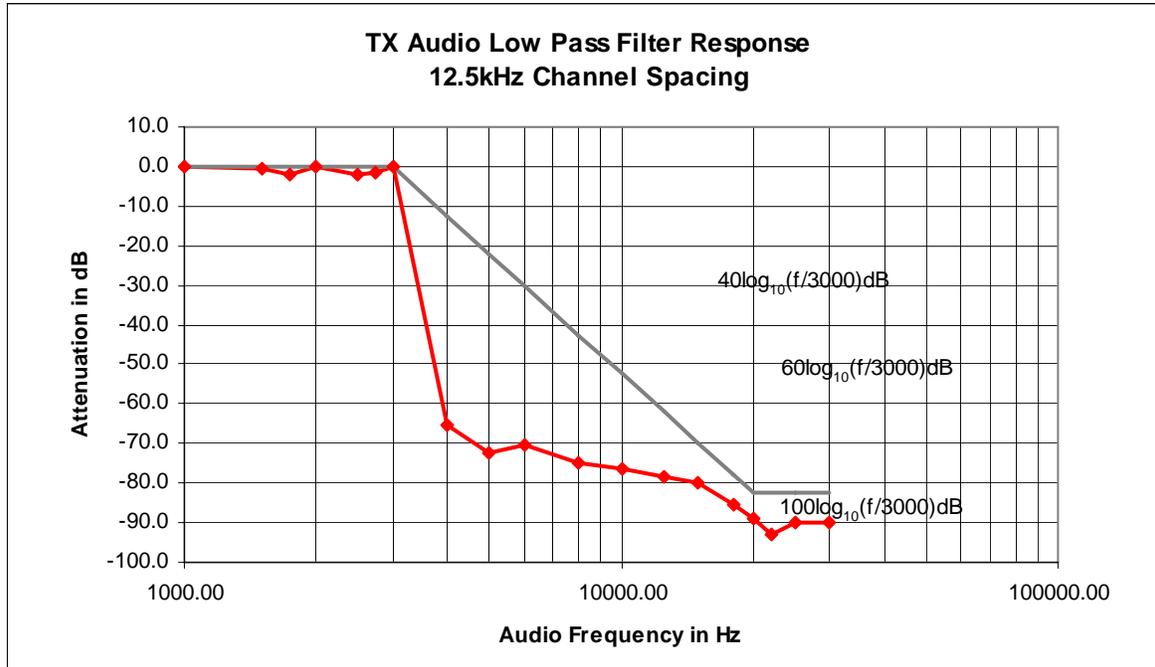


Figure 6C-1: 12.5 kHz Channel Spacing, 436.0125 MHz, Transmit Audio Low Pass Filter Response

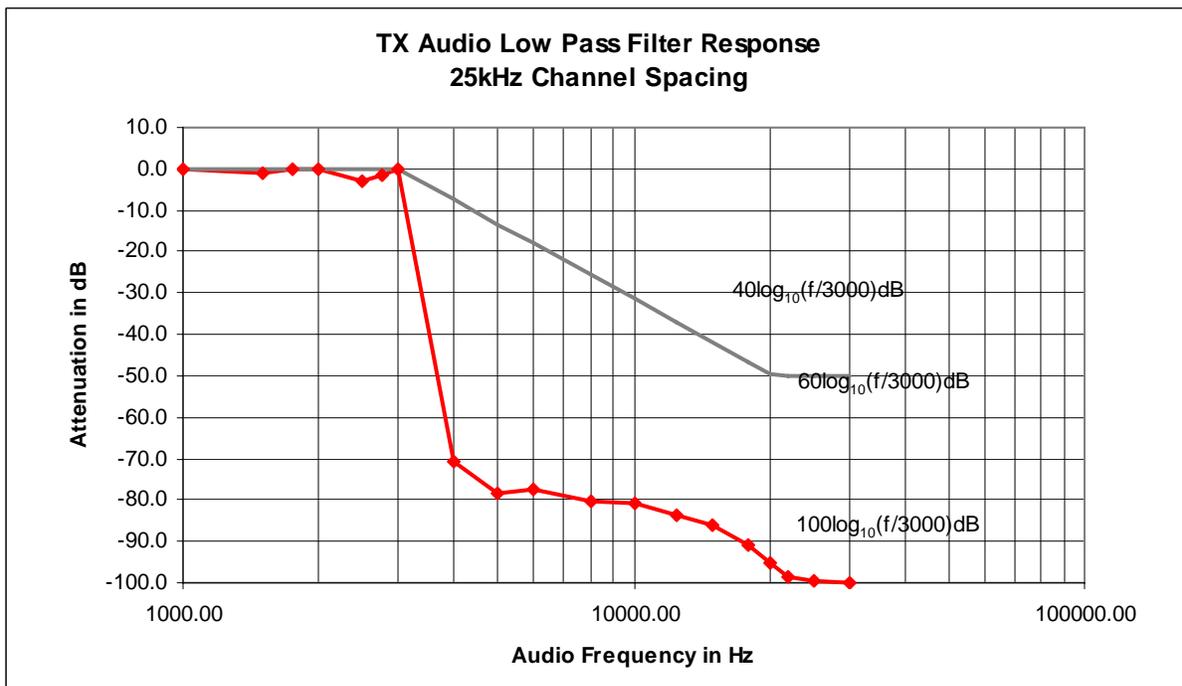


Figure 6C-2: 25 kHz Channel Spacing, 436.0125 MHz, Transmit Audio Low Pass Filter Response

EXHIBIT 6D

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

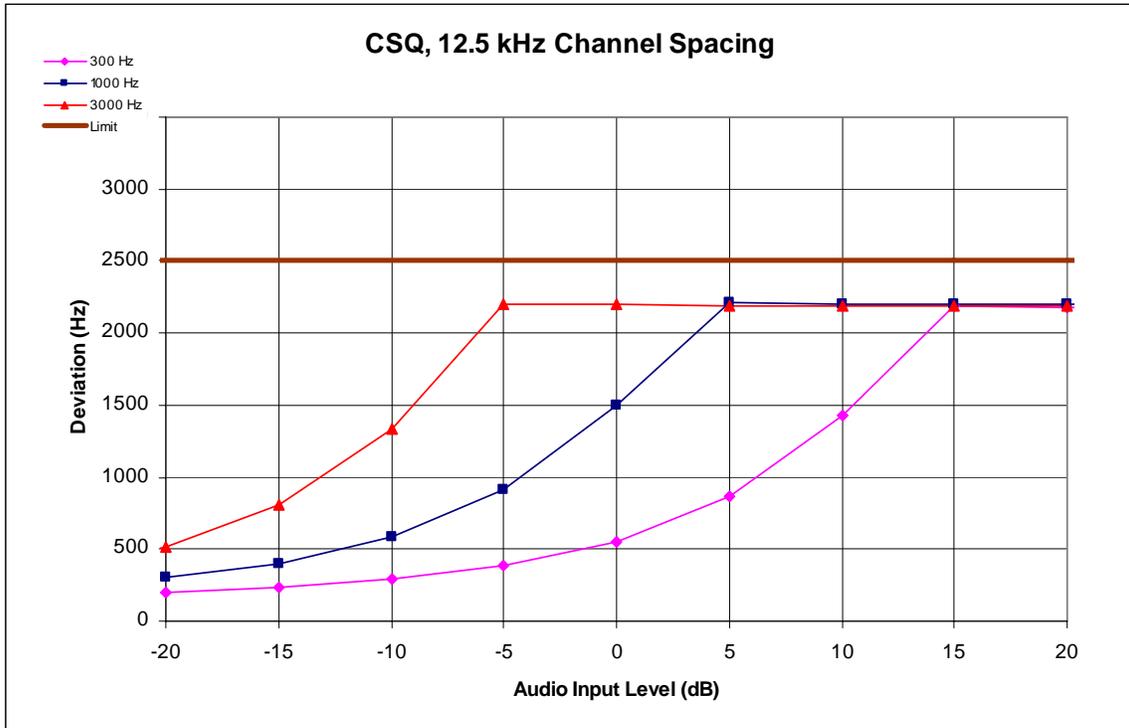


Figure 6D-1: 12.5 kHz Channel Spacing, 436.0125 MHz, Carrier Squelch (CSQ) Mode

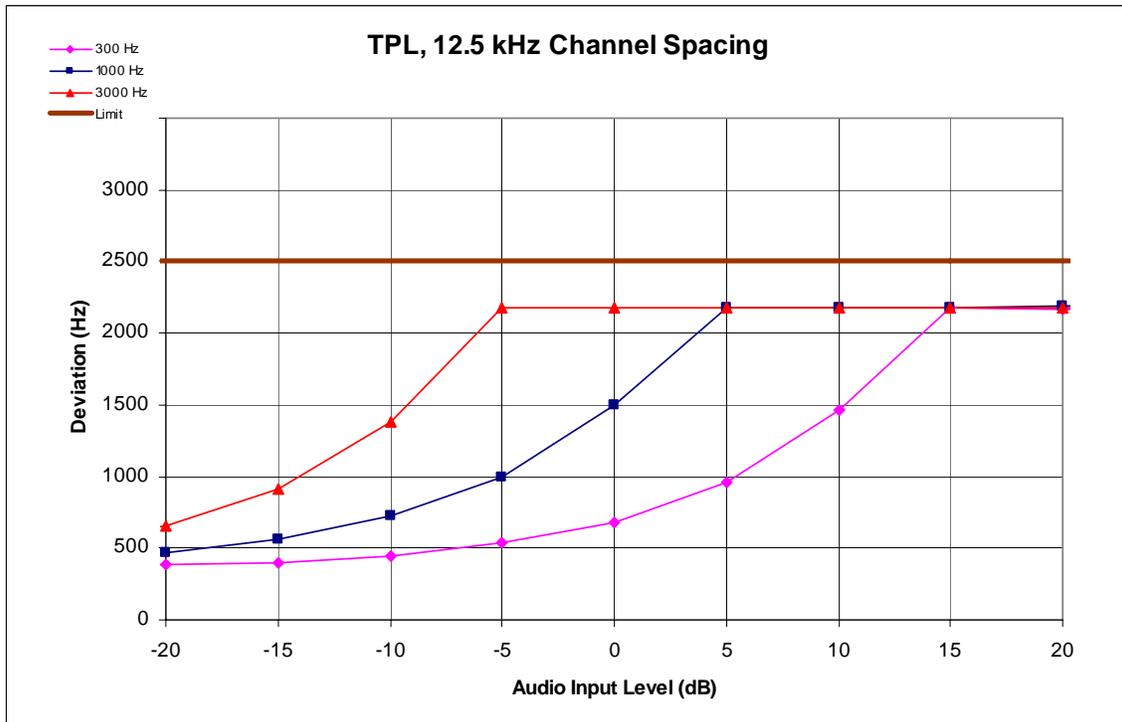


Figure 6D-2: 12.5 kHz Channel Spacing, 436.0125 MHz, Tone Private Line (TPL) Mode

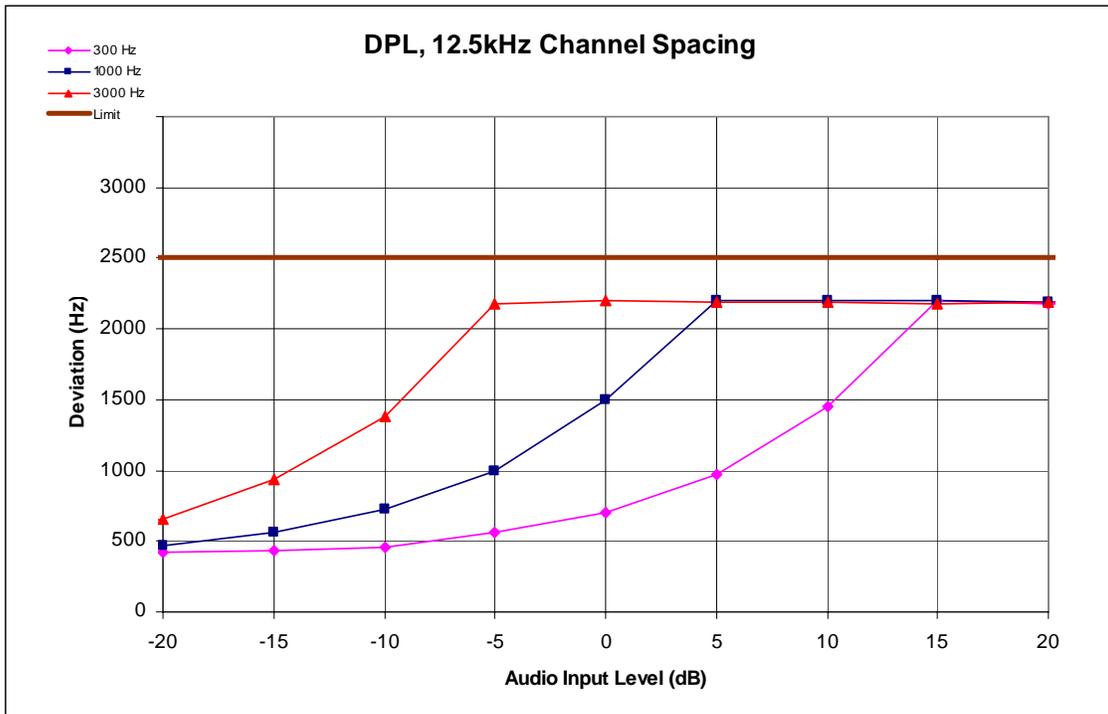


Figure 6D-3: 12.5 kHz Channel Spacing, 436.0125 MHz, Digital Private Line (DPL) Mode

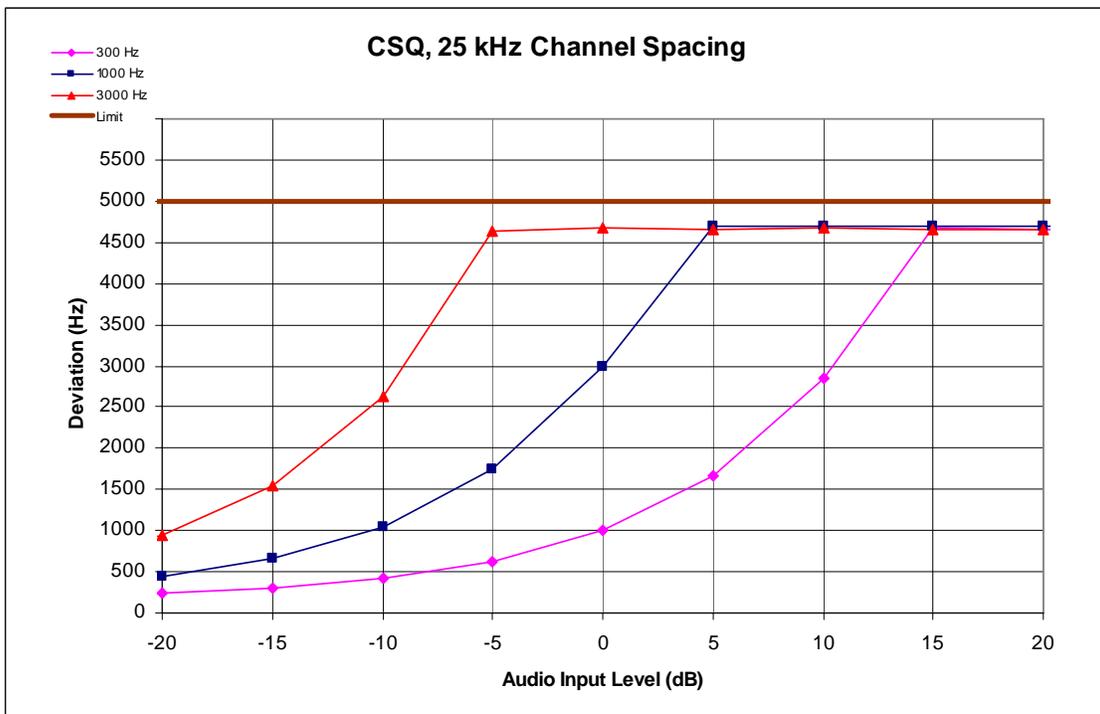


Figure 6D-4: 25 kHz Channel Spacing, 436.0125 MHz, Carrier Squelch (CSQ) Mode

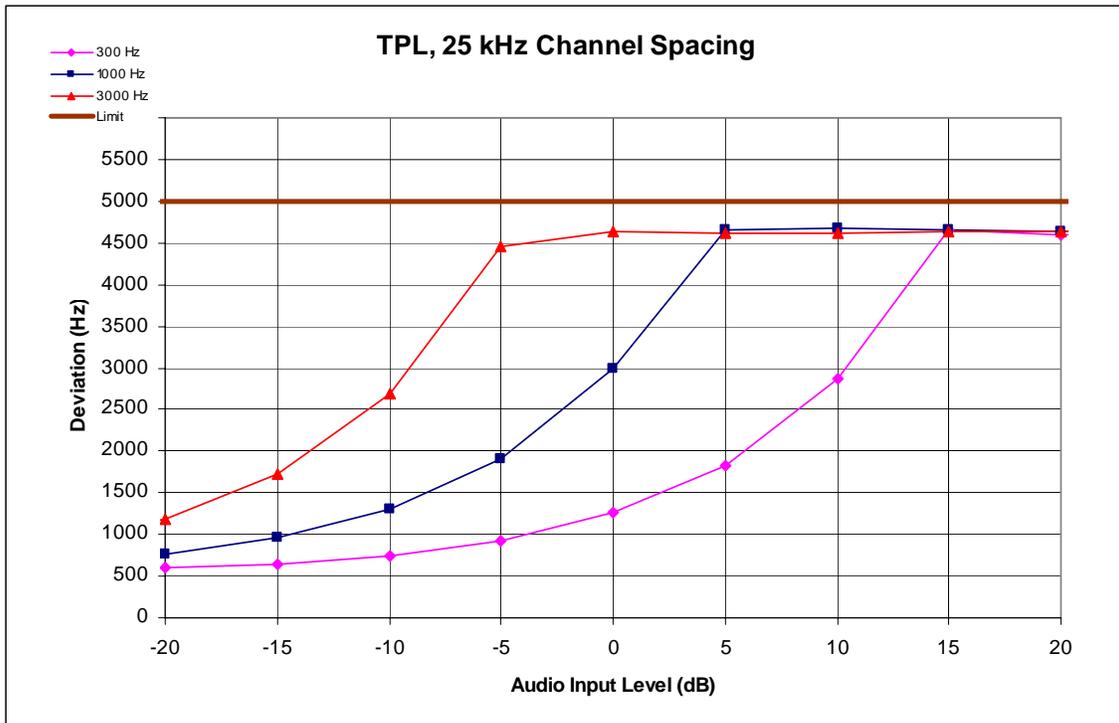


Figure 6D-5: 25 kHz Channel Spacing, 436.0125 MHz, Tone Private Line (TPL) Mode

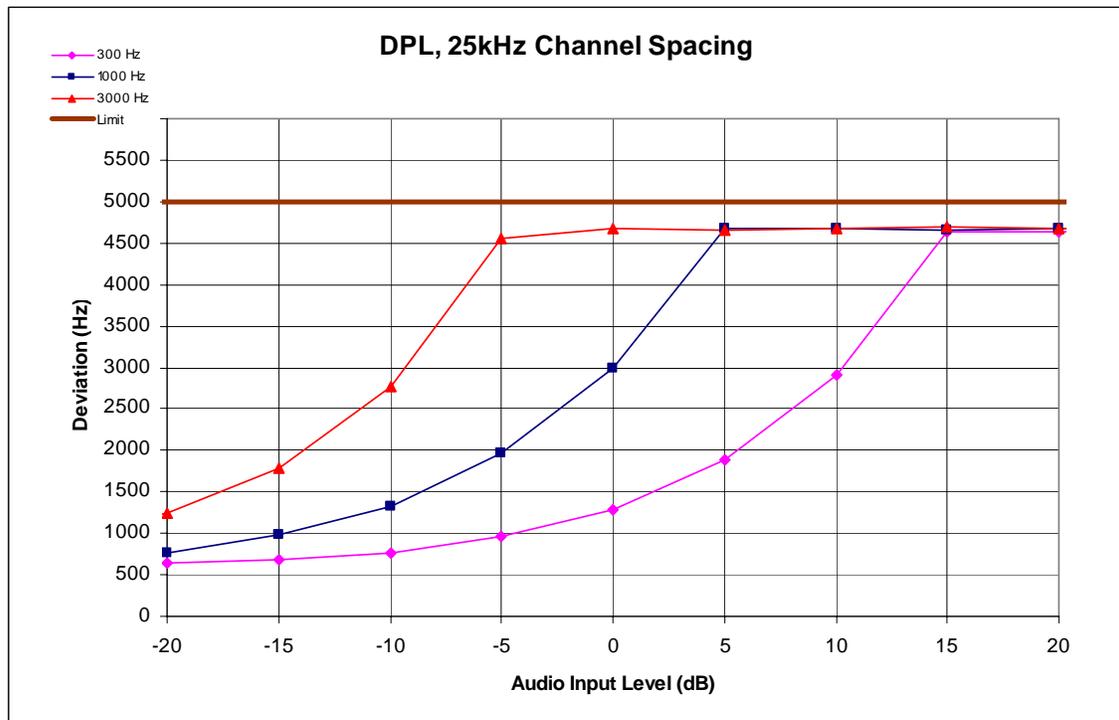


Figure 6D-6: 25 kHz Channel Spacing, 436.0125 MHz, Digital Private Line (DPL) Mode

EXHIBIT 6E

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

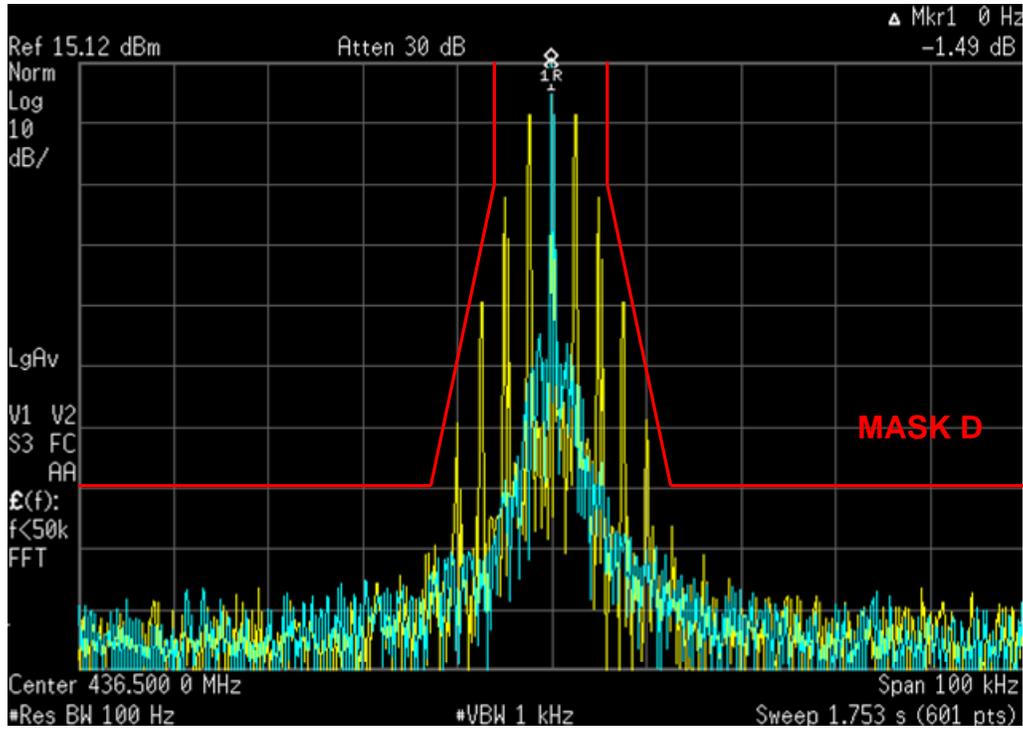


Figure 6E-1: 12.5 kHz Channel Spacing, 2500 Hz Audio Modulation Only, 11K0F3E

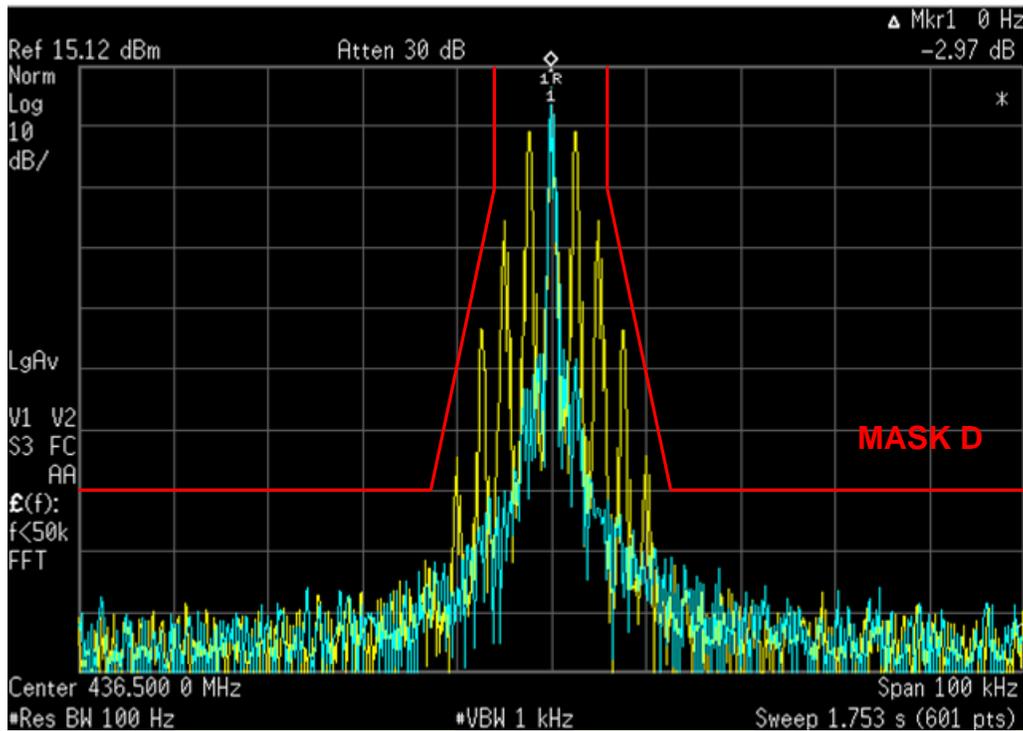


Figure 6E-2: 12.5 kHz Channel Spacing, 2500 Hz Audio and PL Tone Modulation, 11K0F3E

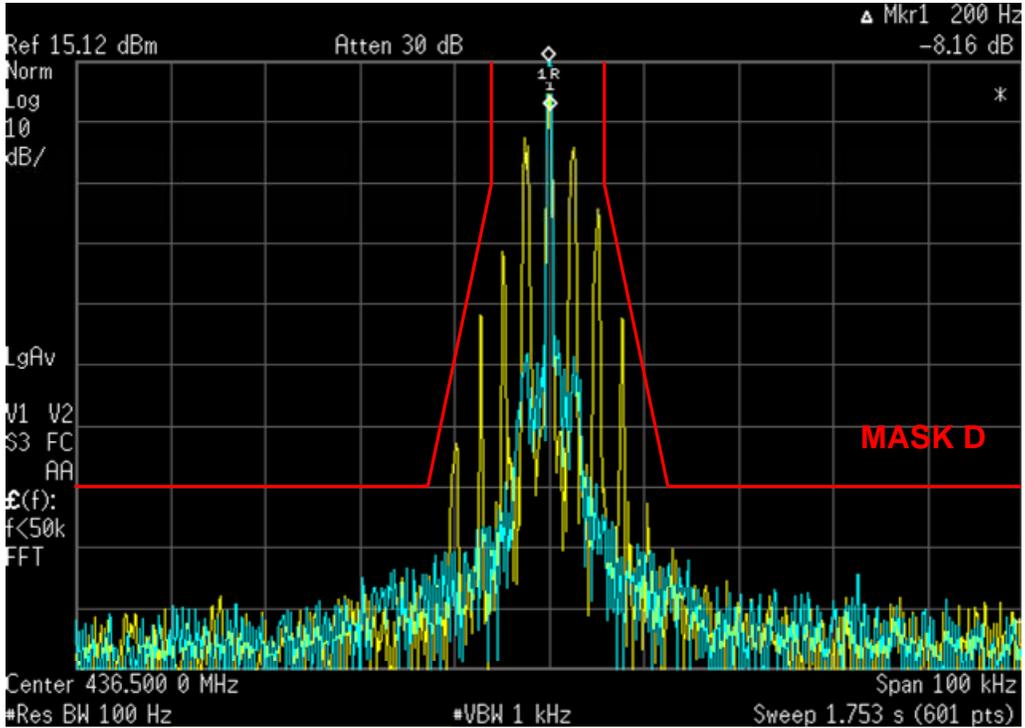


Figure 6E-3: 12.5 kHz Channel Spacing, 2500 Hz Audio and DPL Tone Modulation, 11K0F3E

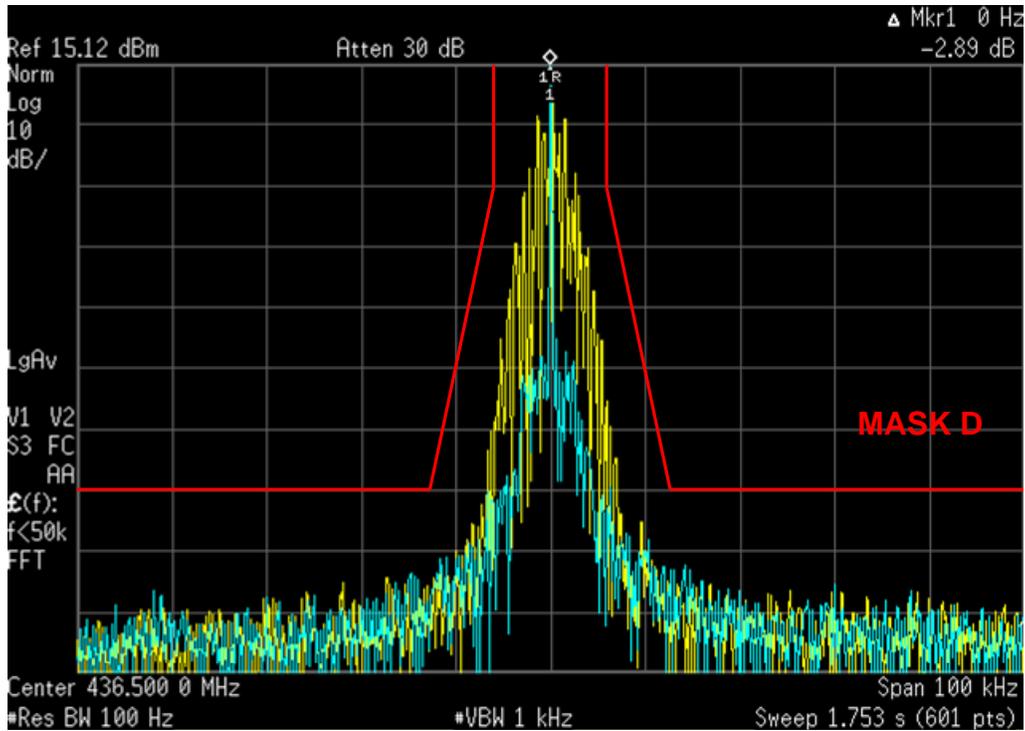


Figure 6E-4: 12.5 kHz Channel Spacing, DTMF Modulation Only, 11K0F3E

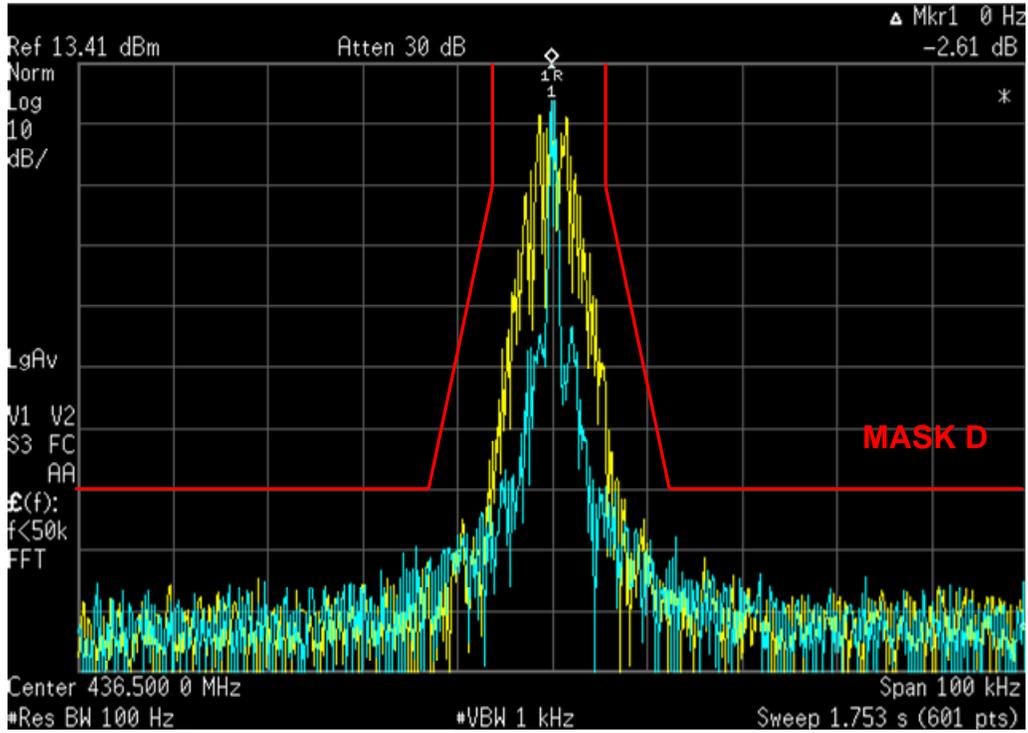


Figure 6E-5: 12.5 kHz Channel Spacing, DTMF and PL Tone Modulation, 11K0F3E

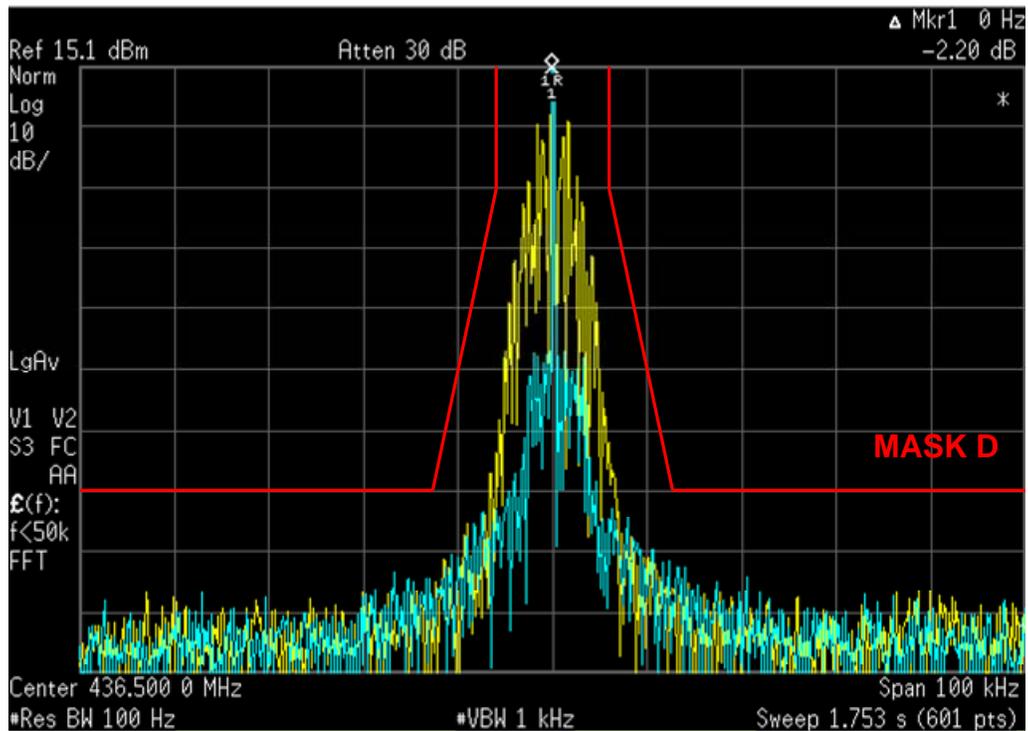


Figure 6E-6: 12.5 kHz Channel Spacing, DTMF and DPL Tone Modulation, 11K0F3E

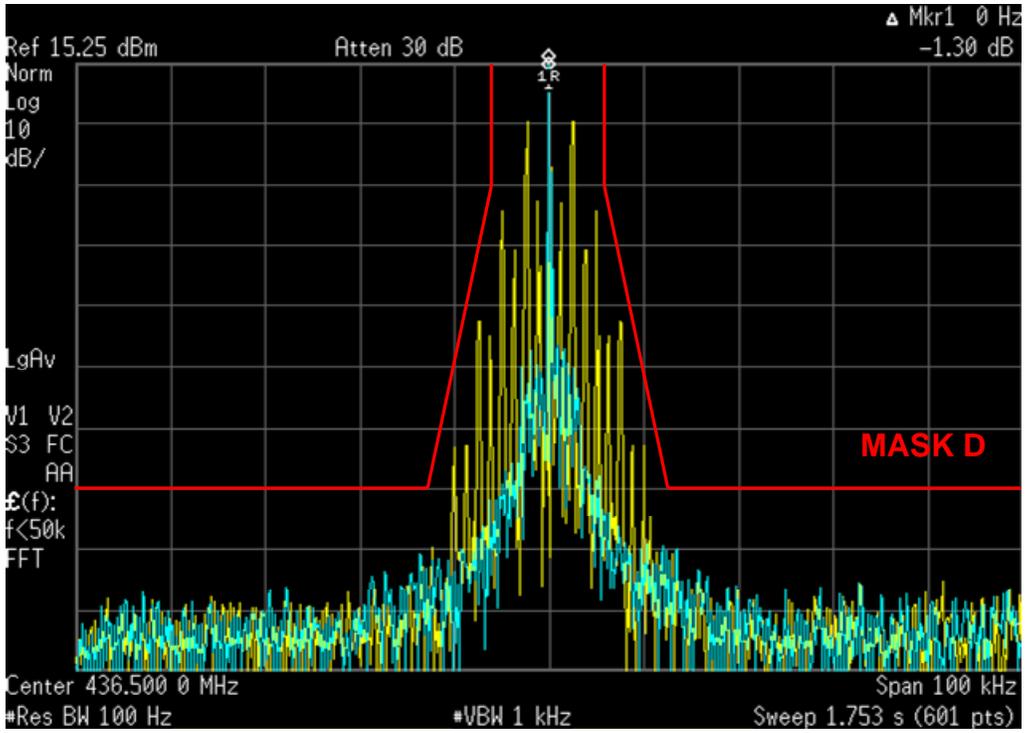


Figure 6E-7: 12.5 kHz Channel Spacing, 2000/3000 Hz FSK Data Modulation Only, 11K0F3E

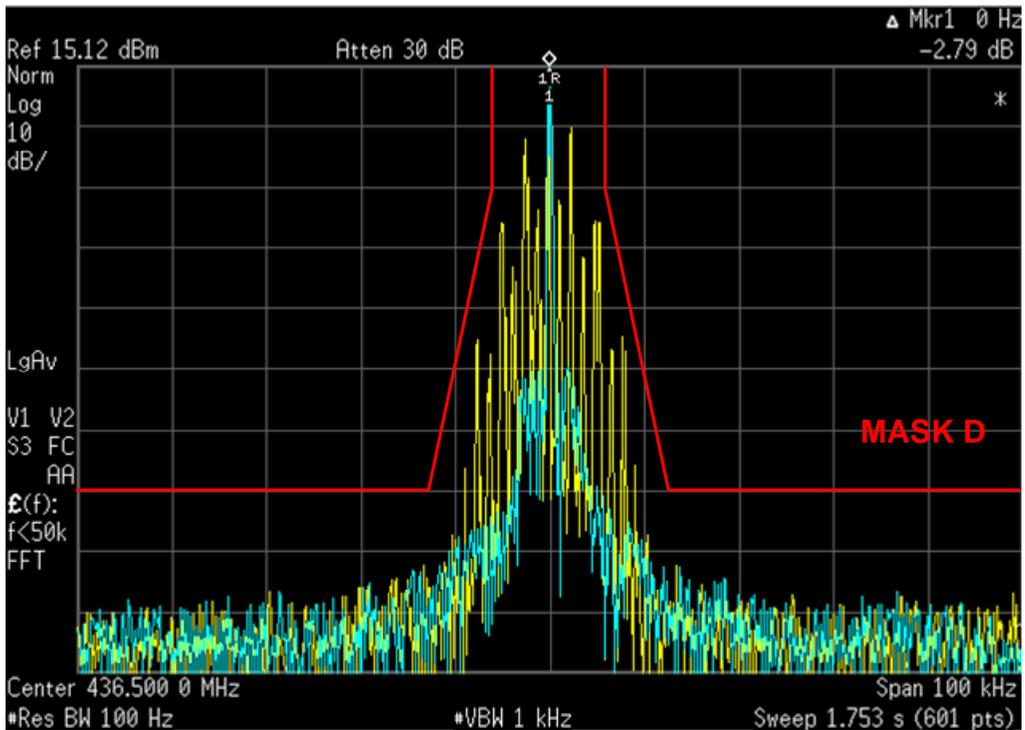


Figure 6E-8: 12.5 kHz Channel Spacing, 2000/3000 Hz FSK Data and PL Tone Modulation, 11K0F3E

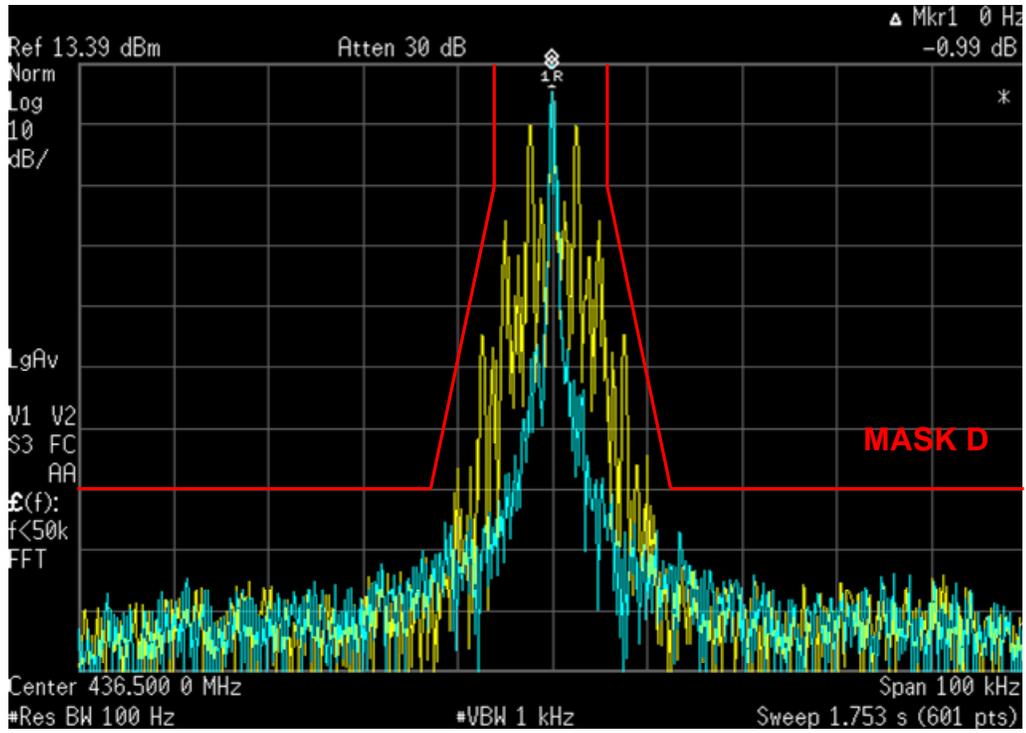


Figure 6E-9: 12.5 kHz Channel Spacing, 2000/3000 Hz FSK Data and DPL Tone Modulation, 11K0F3E

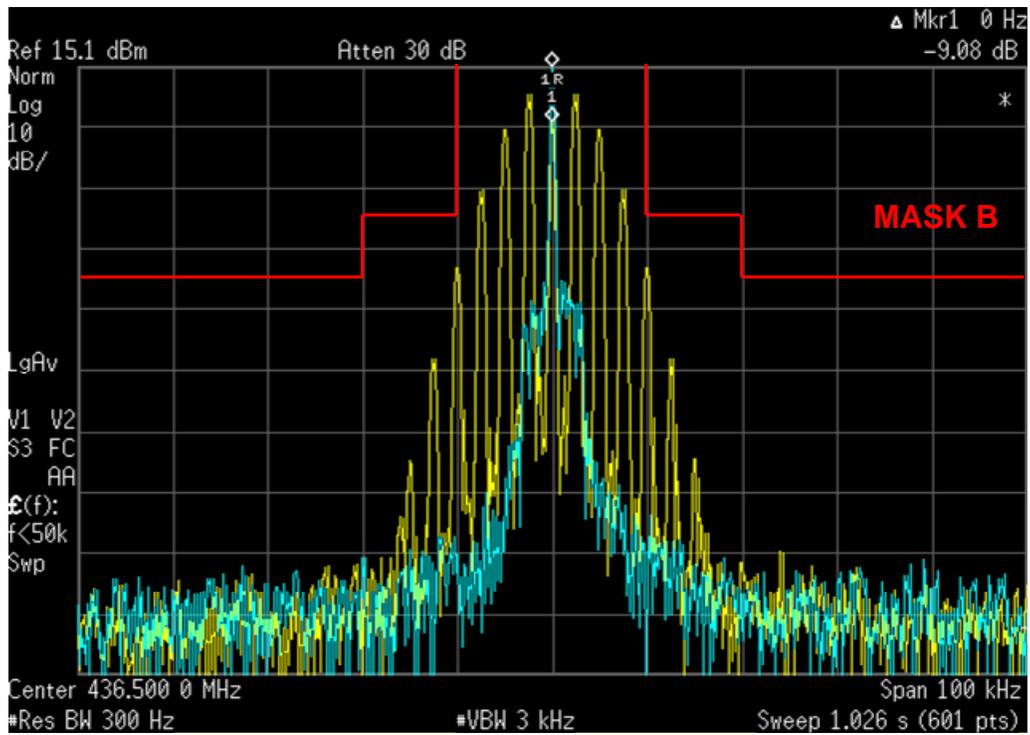


Figure 6E-10: 25 kHz Channel Spacing, 2500 Hz Audio Modulation Only, 16K0F3E

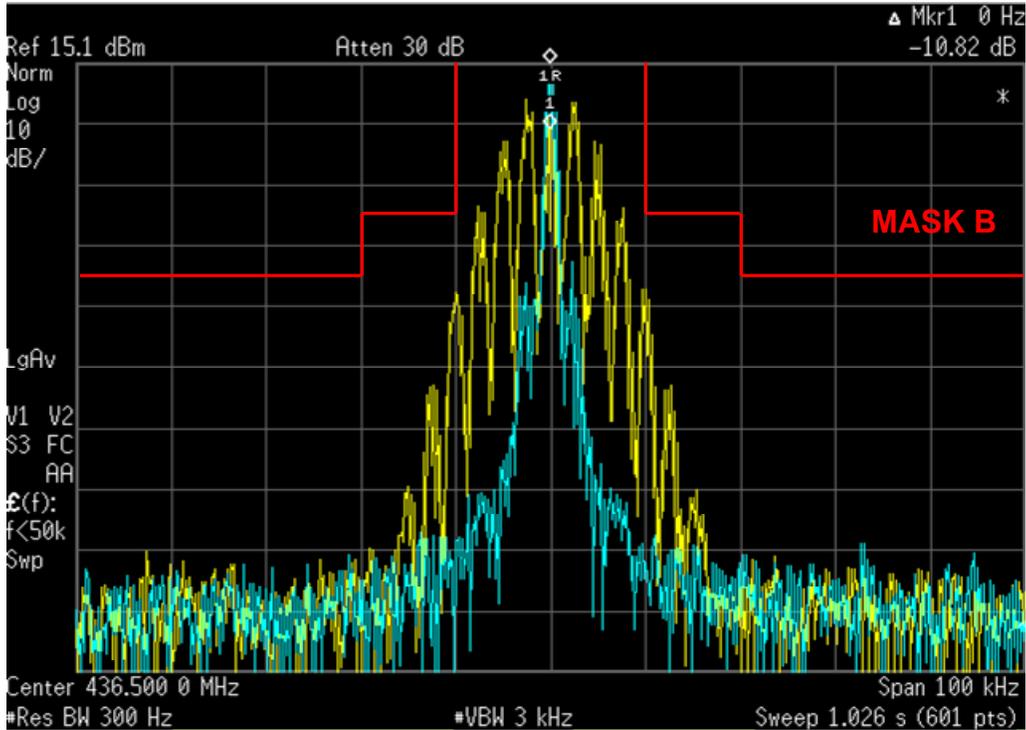


Figure 6E-11: 25 kHz Channel Spacing, 2500 Hz Audio and PL Tone Modulation, 16K0F3E

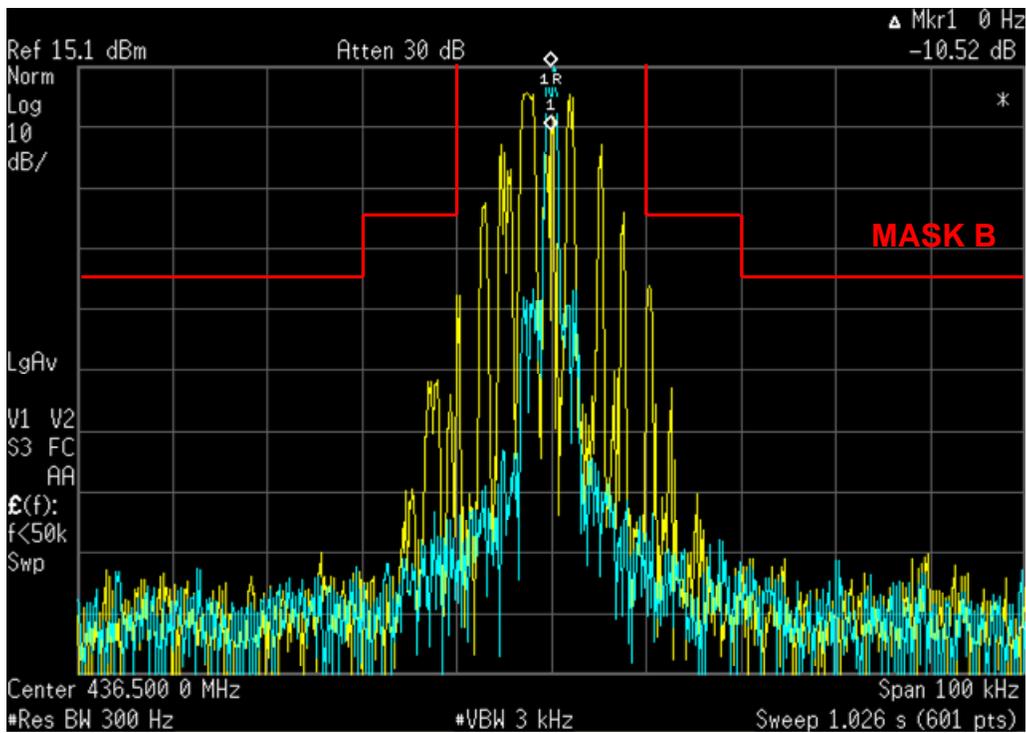


Figure 6E-12: 25 kHz Channel Spacing, 2500 Hz Audio and DPL Tone Modulation, 16K0F3E

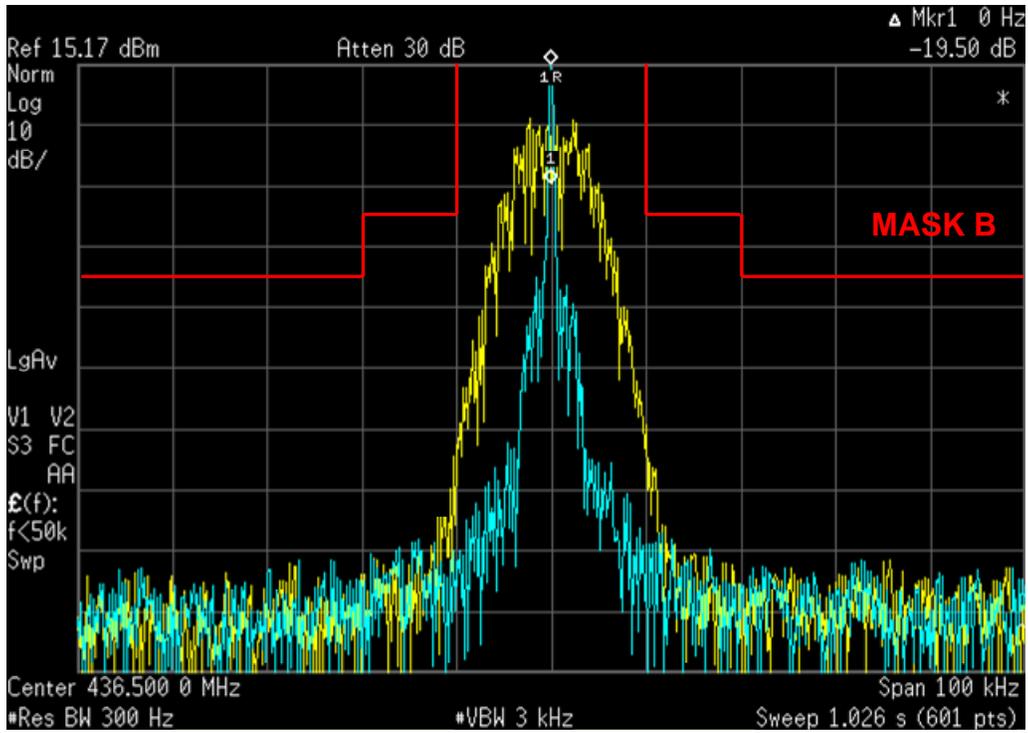


Figure 6E-13: 25 kHz Channel Spacing, DTMF Modulation Only, 16K0F3E

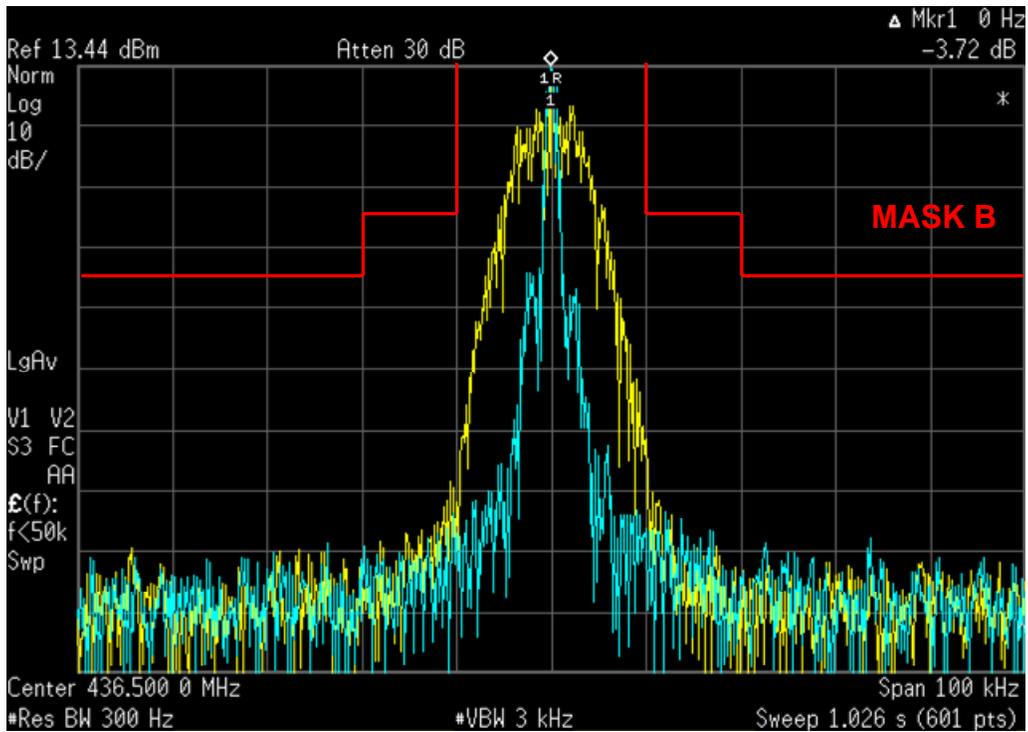


Figure 6E-14: 25 kHz Channel Spacing, DTMF and PL Tone Modulation, 16K0F3E

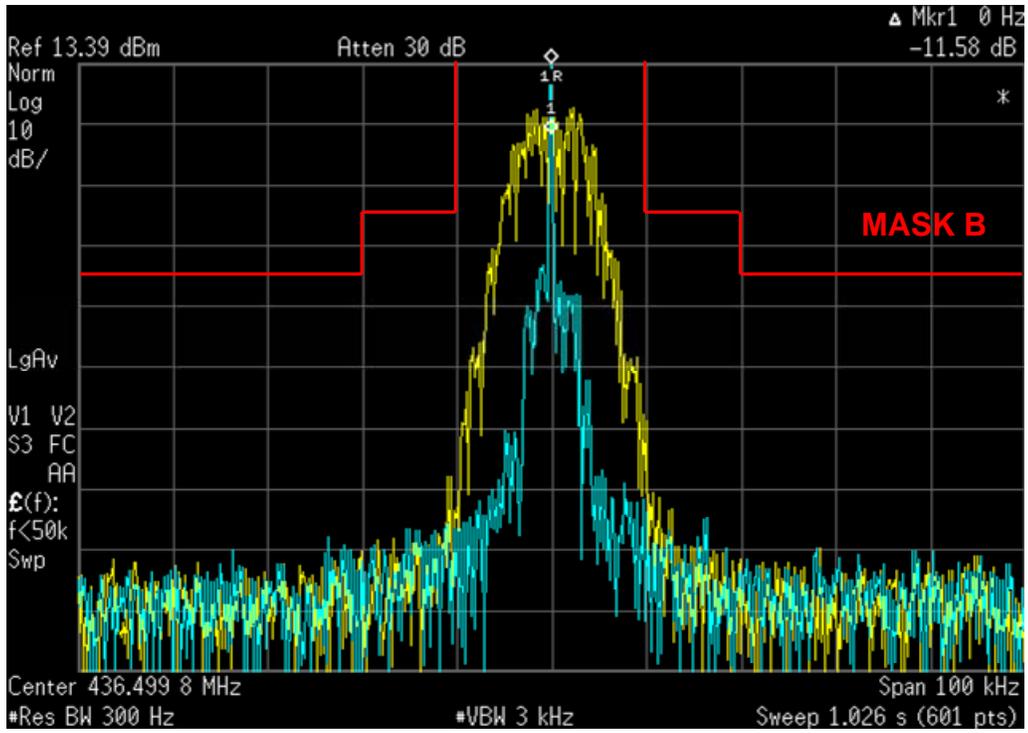


Figure 6E-15: 25 kHz Channel Spacing, DTMF and DPL Tone Modulation, 16K0F3E

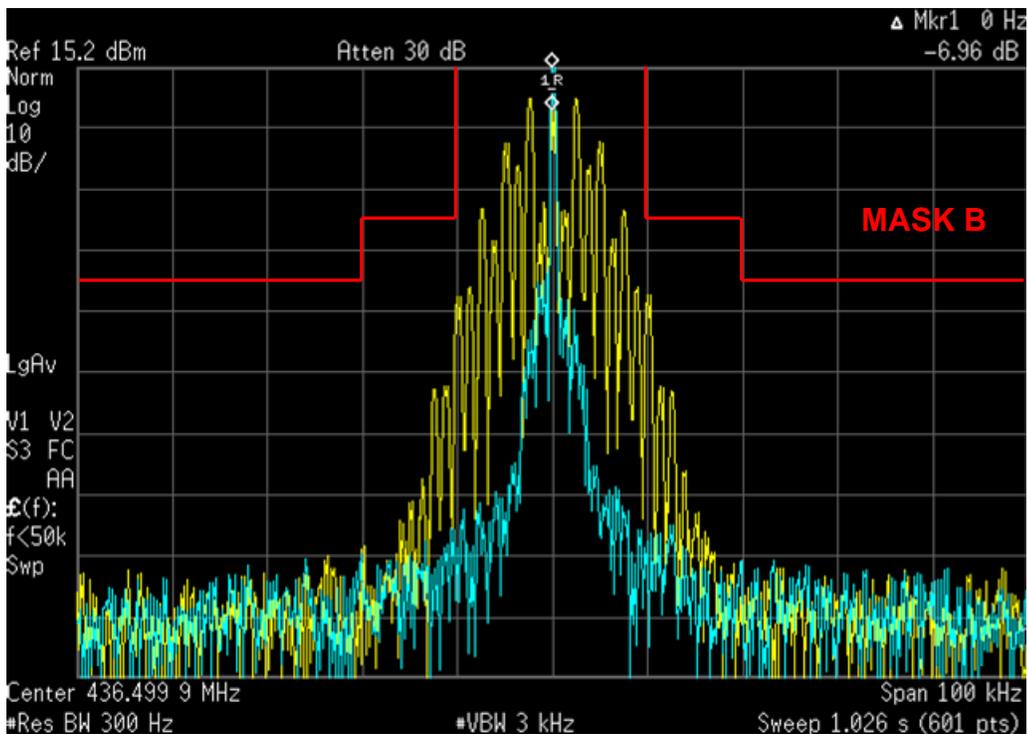


Figure 6E-16: 25 kHz Channel Spacing, 2000/3000 Hz FSK Data Modulation Only, 16K0F3E

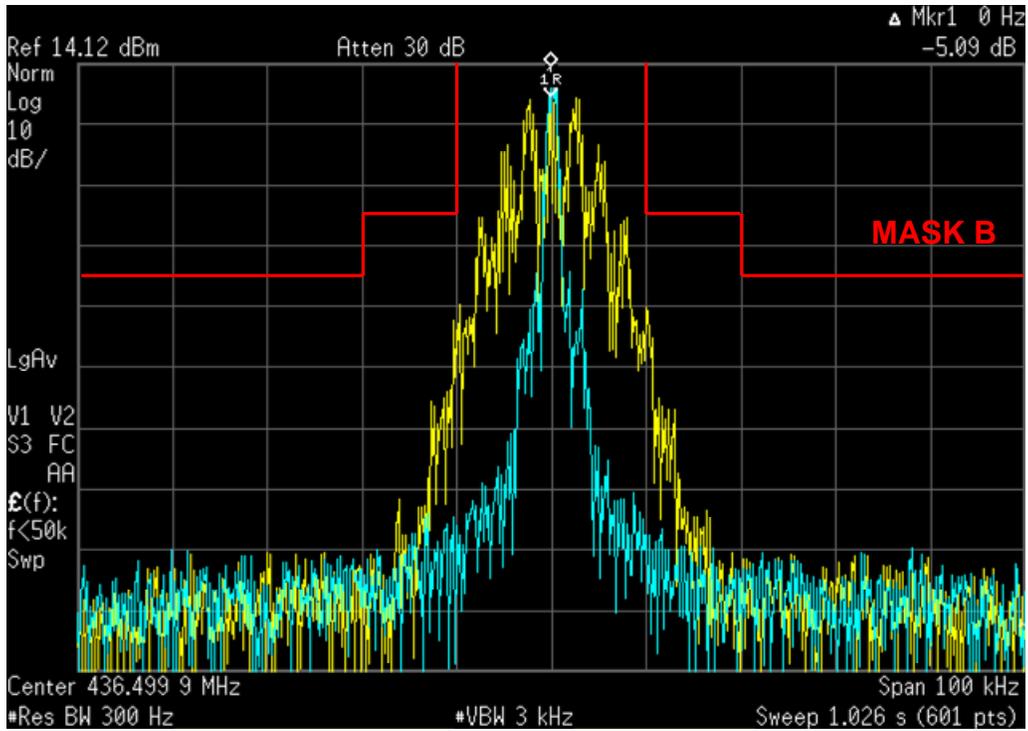


Figure 6E-17: 25 kHz Channel Spacing, 2000/3000 Hz FSK Data and PL Tone Modulation, 16K0F3E

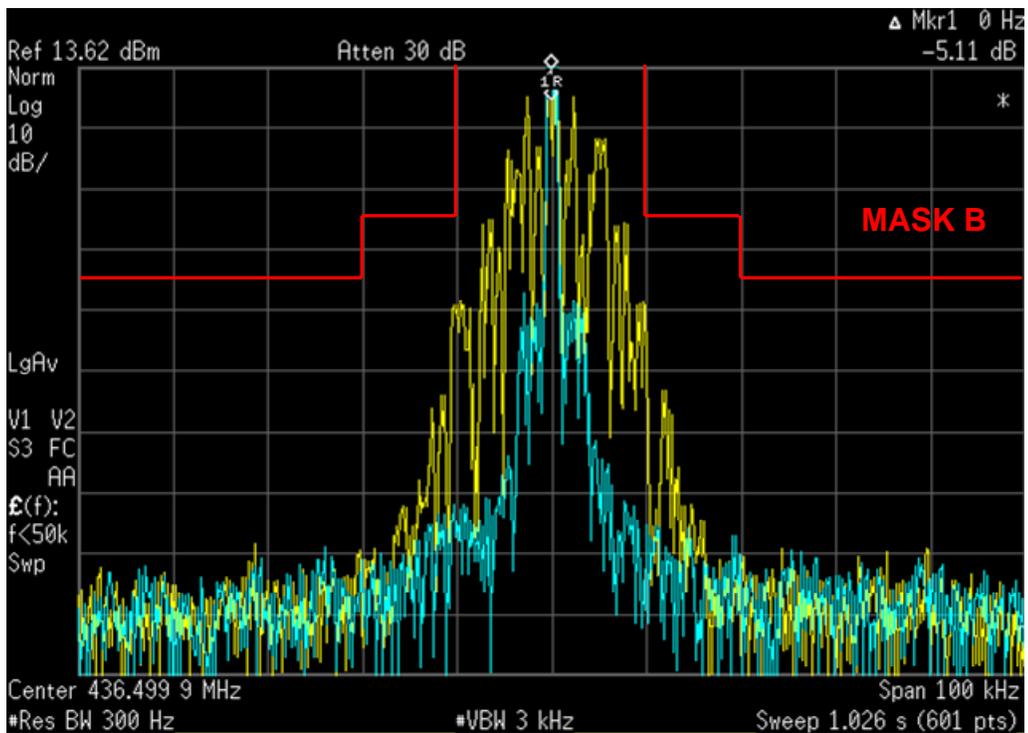


Figure 6E-18: 25 kHz Channel Spacing, 2000/3000 Hz FSK Data and DPL Tone Modulation, 16K0F3E

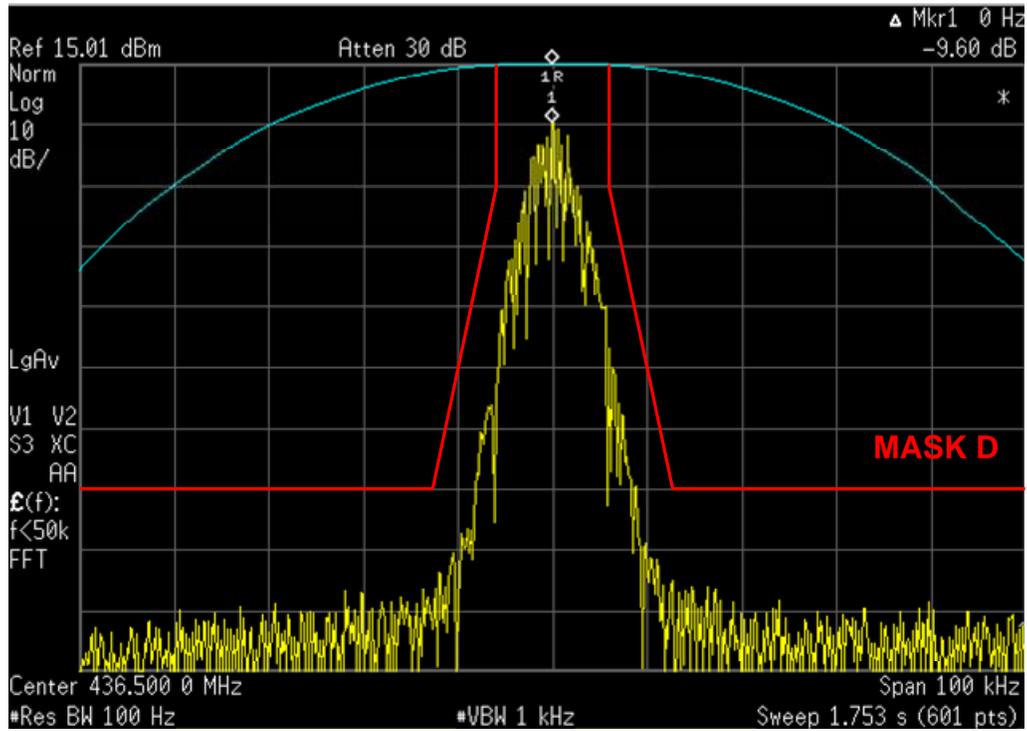


Figure 6E-19: O.153 Test Pattern 4FSK Voice and Data Modulation, 7K60FXE

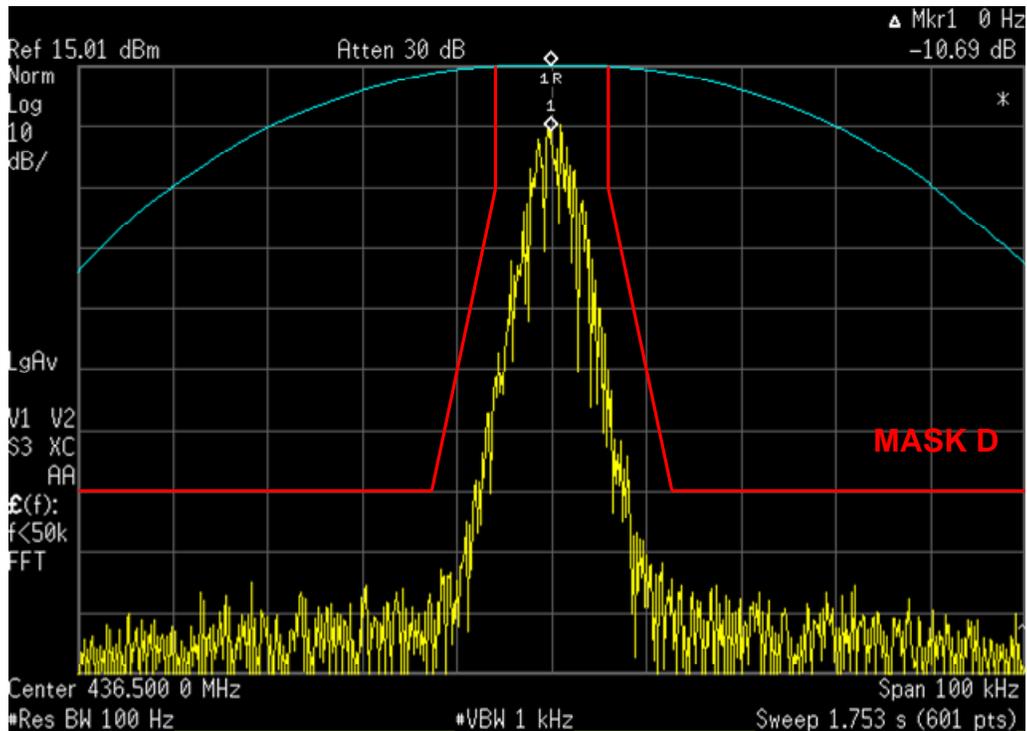


Figure 6E-20: O.153 Test Pattern 4FSK Data Modulation Only, 7K60FXD

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).

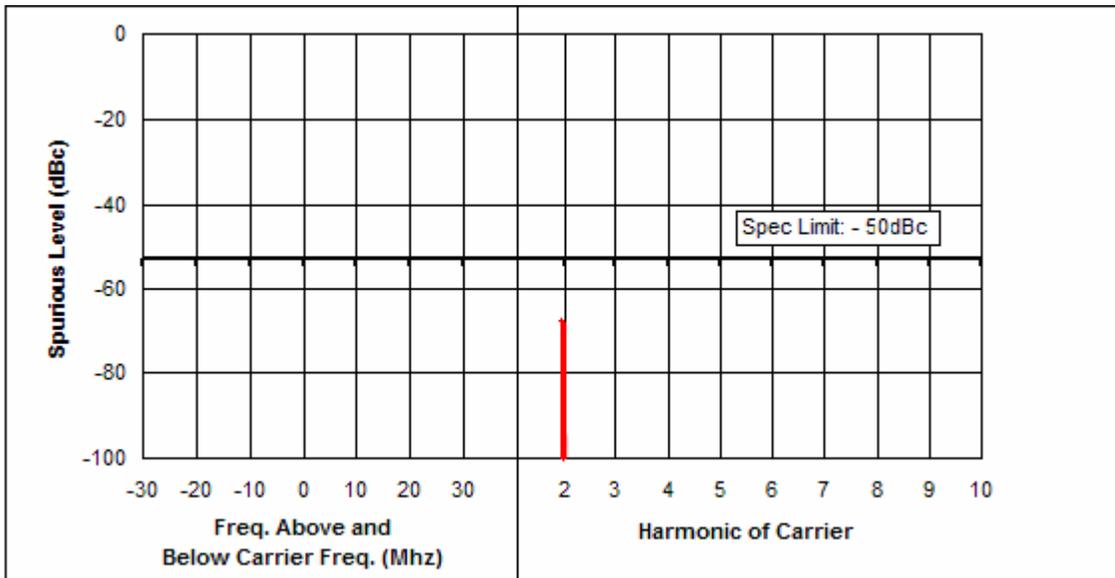


Table 6F-1: 1 Watt Harmonic of Carrier 403 MHz, 12.5 kHz Channel Spacing

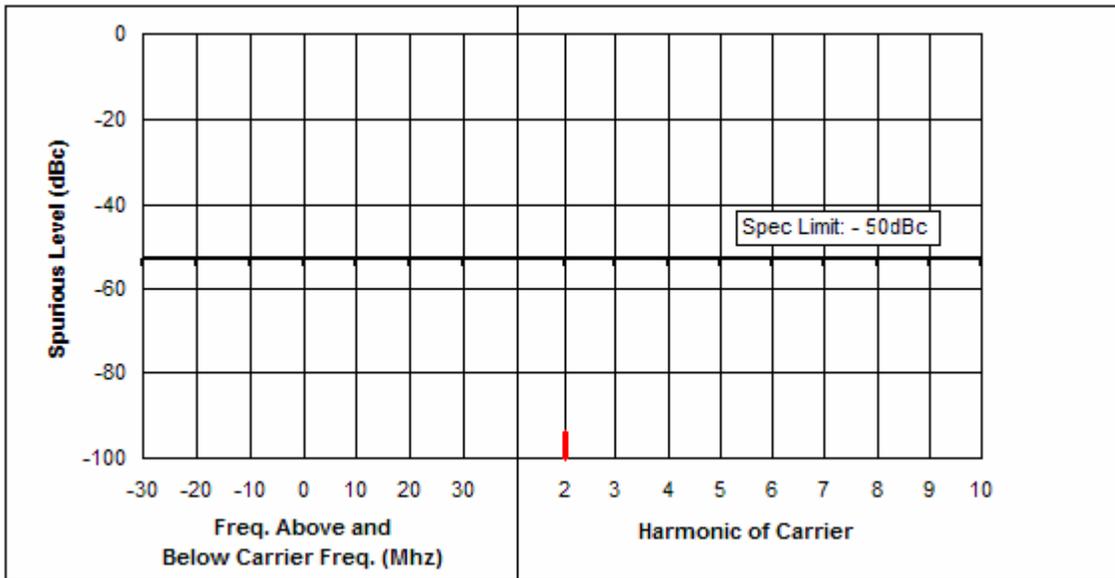


Table 6F-2: 1 Watt Harmonic of Carrier 436.5 MHz, 12.5 kHz Channel Spacing

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

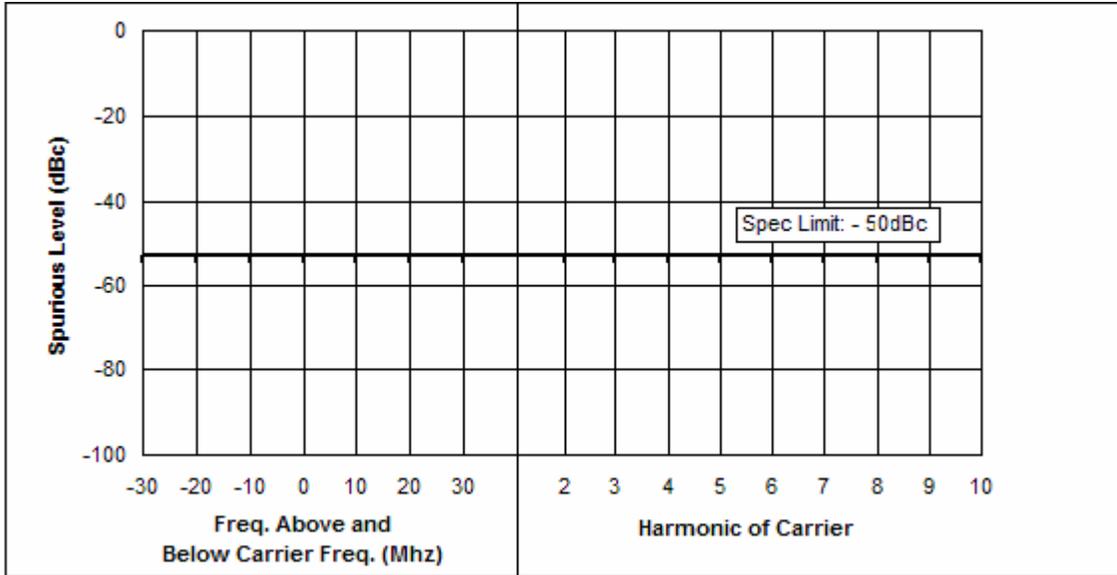


Table 6F-3: 1 Watt Harmonic of Carrier 470 MHz, 12.5 kHz Channel Spacing

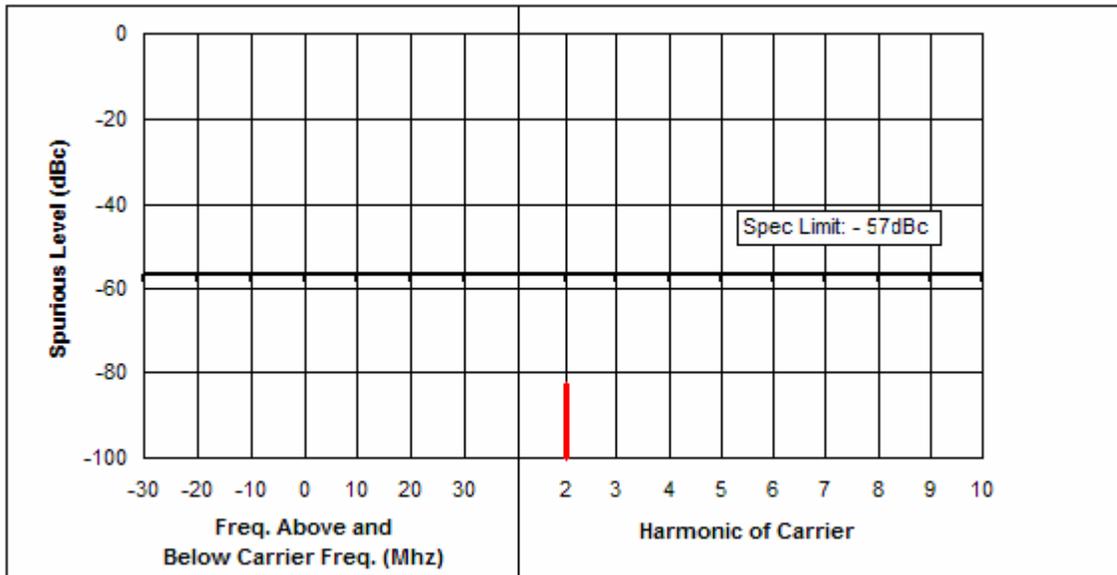


Table 6F-4: 4.8 Watts Harmonic of Carrier 403 MHz, 12.5 kHz Channel Spacing

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

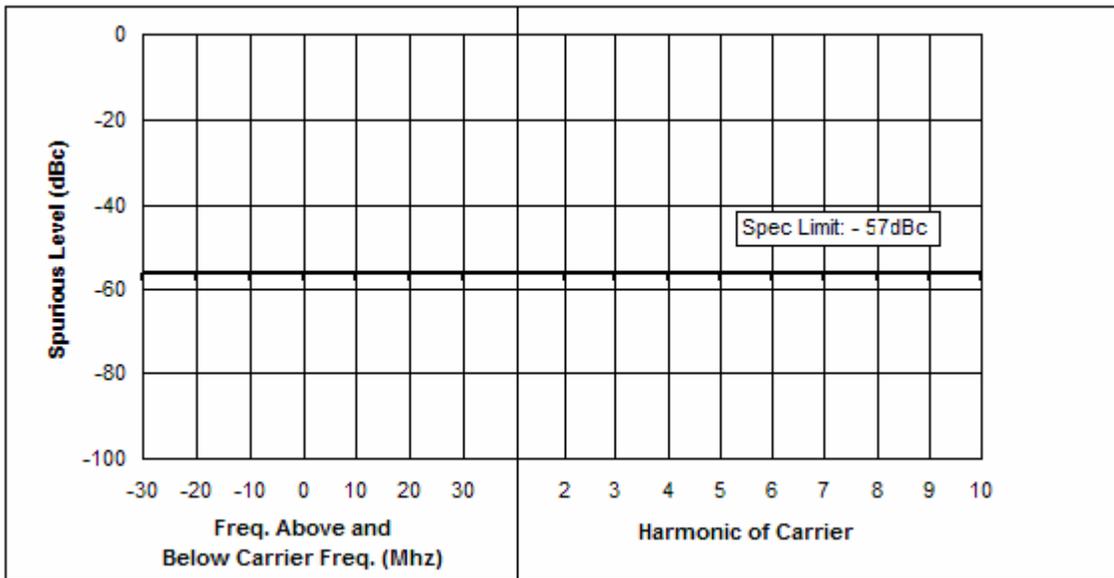


Table 6F-5: 4.8 Watts Harmonic of Carrier 436.5 MHz, 12.5 kHz Channel Spacing

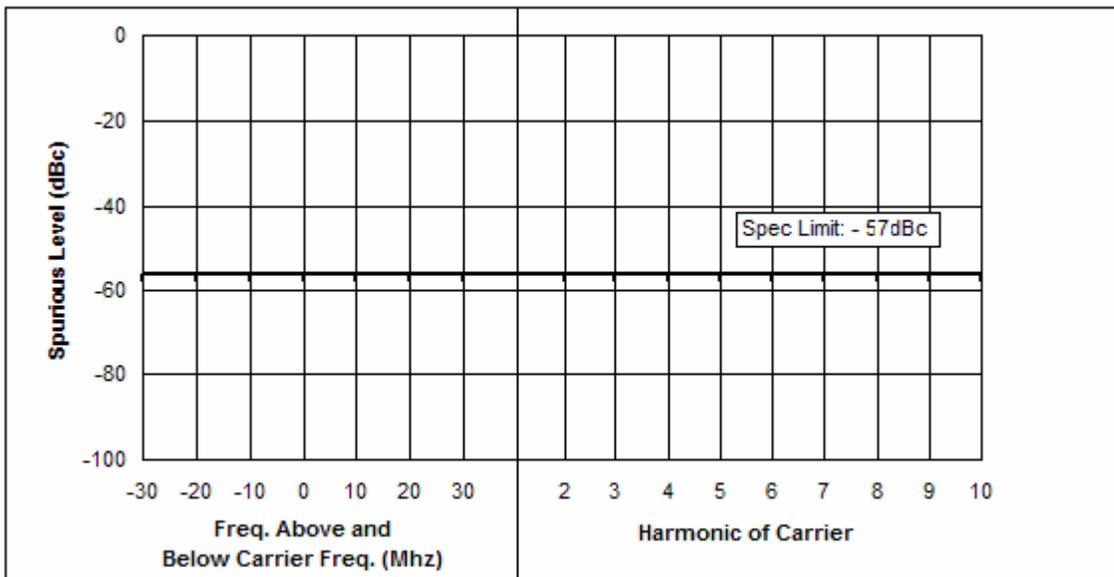


Table 6F-6: 4.8 Watts Harmonic of Carrier 470 MHz, 12.5 kHz Channel Spacing

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

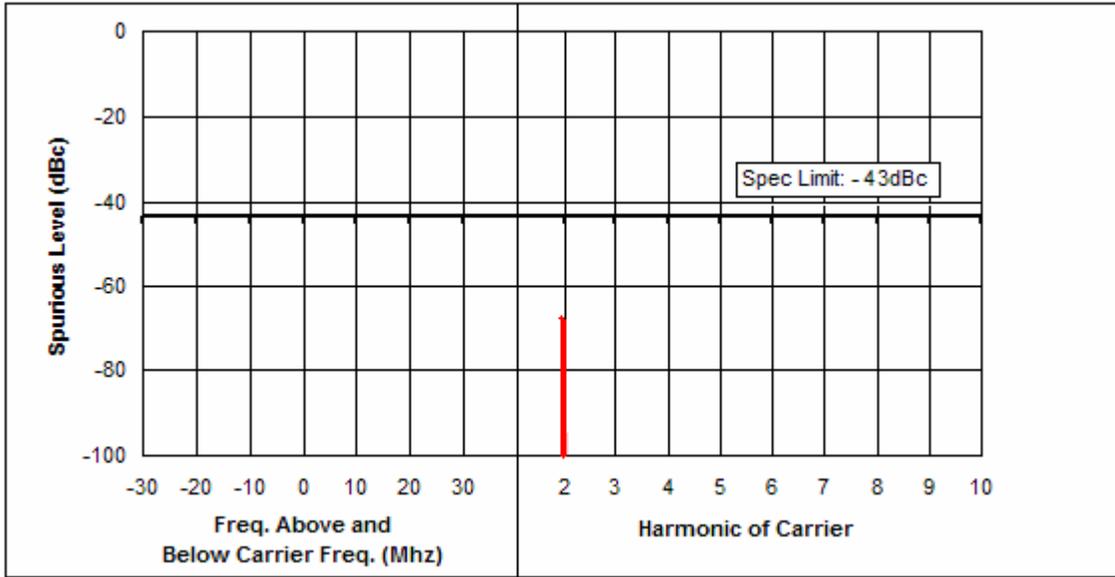


Table 6F-7: 1 Watt Harmonic of Carrier 403 MHz, 25 kHz Channel Spacing

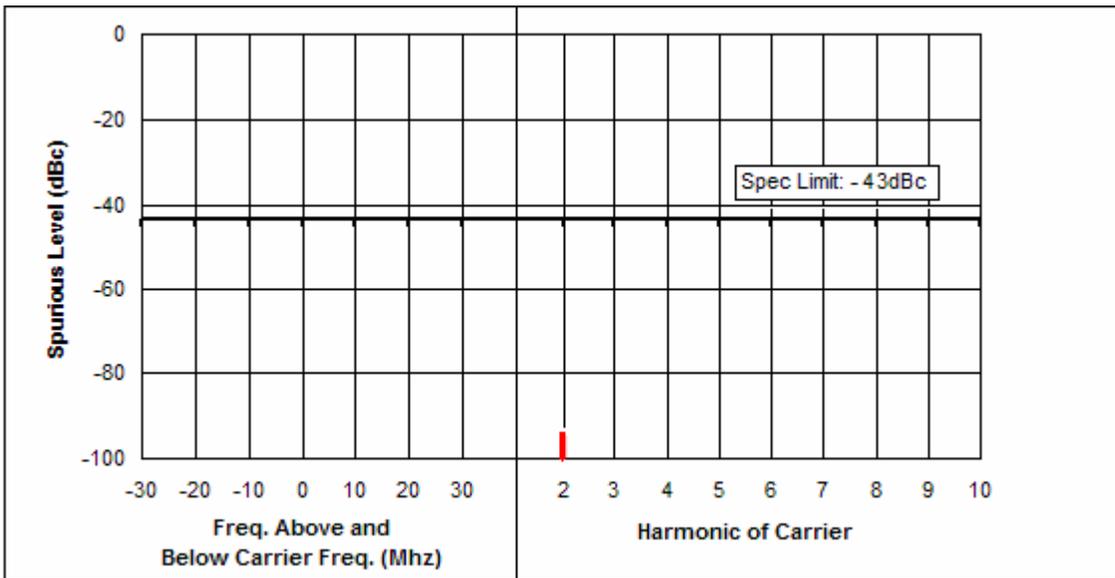


Table 6F-8: 1 Watt Harmonic of Carrier 436.5 MHz, 25 kHz Channel Spacing

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

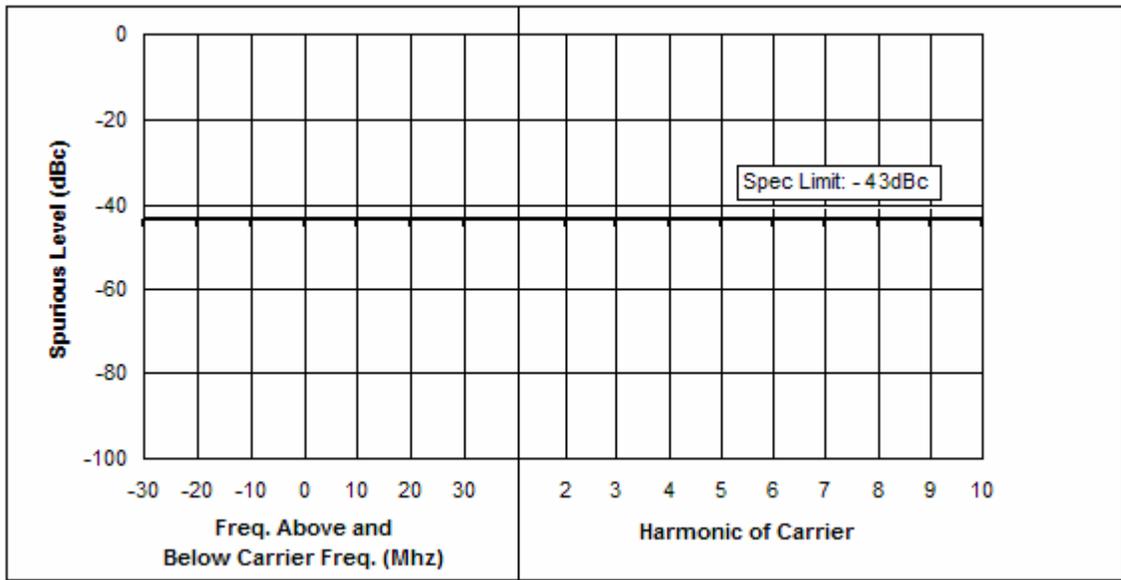


Table 6F-9: 1 Watt Harmonic of Carrier 469.9875 MHz, 25 kHz Channel Spacing

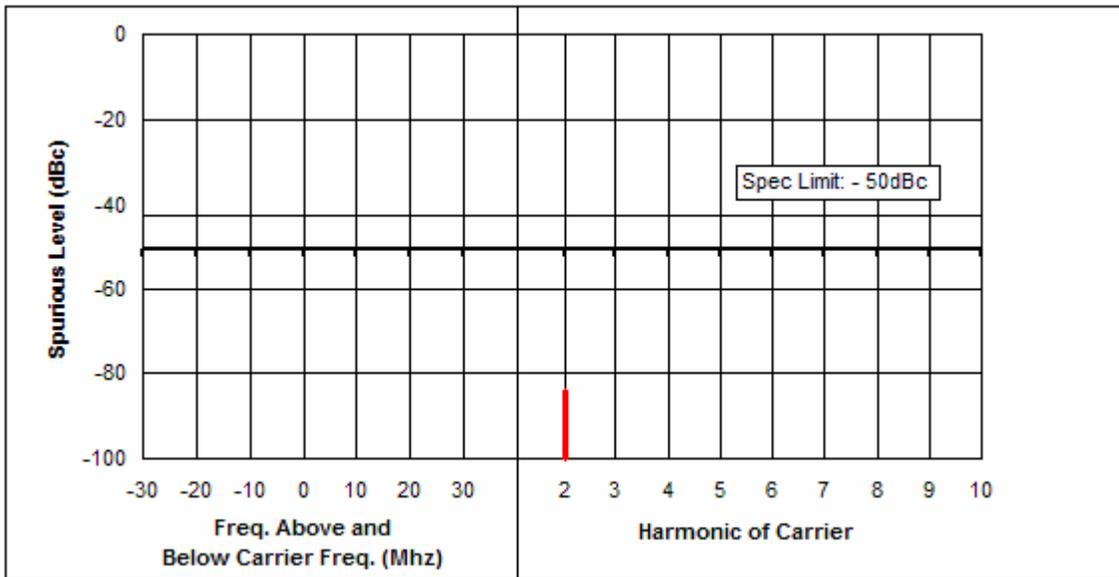


Table 6F-10: 4.8 Watts Harmonic of Carrier 403 MHz, 25 kHz Channel Spacing

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

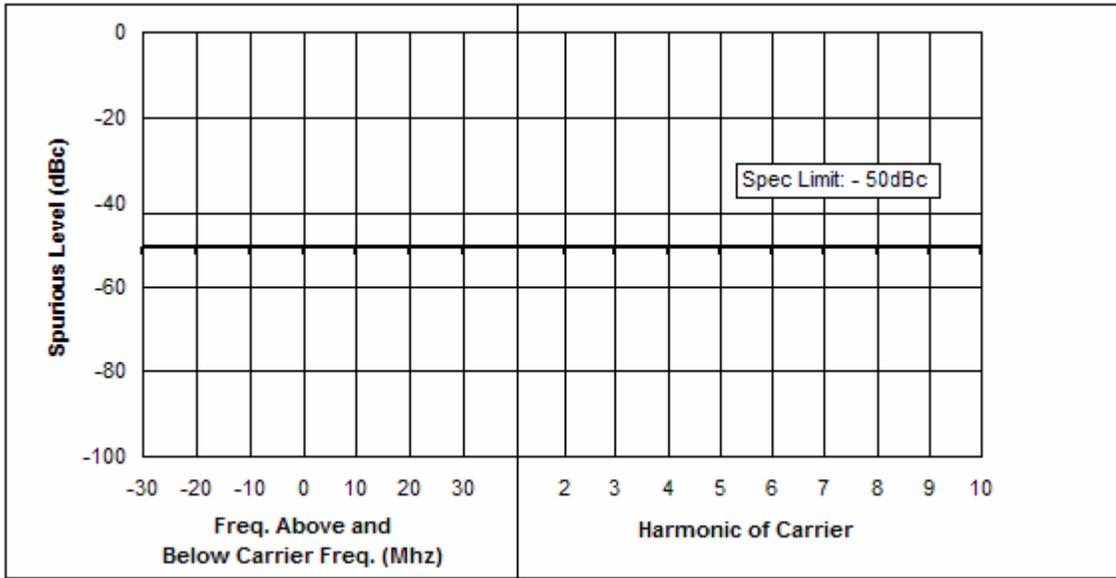


Table 6F-11: 4.8 Watts Harmonic of Carrier 436.5 MHz, 25 kHz Channel Spacing

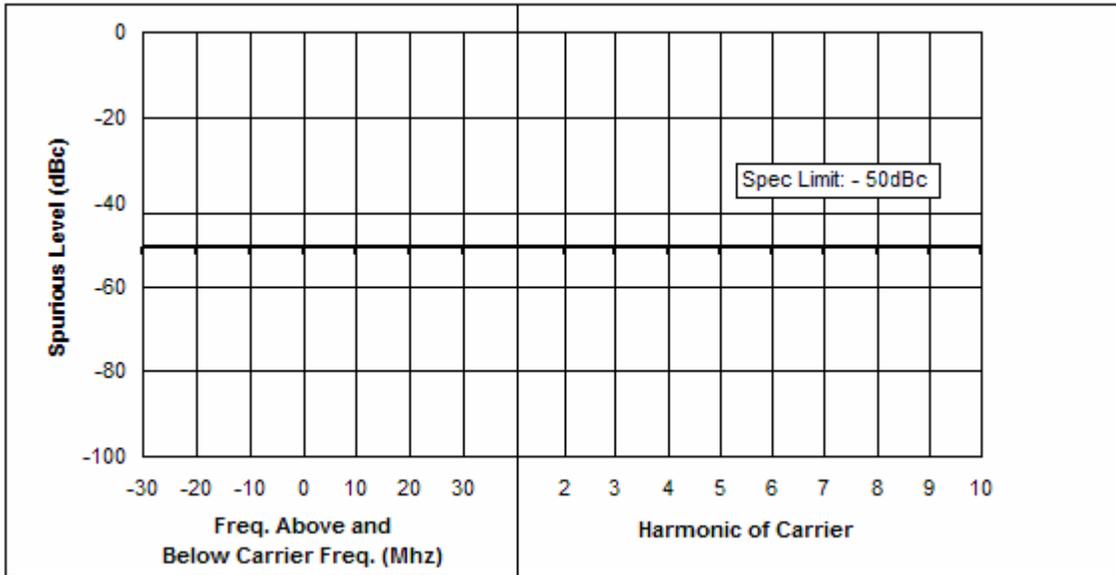
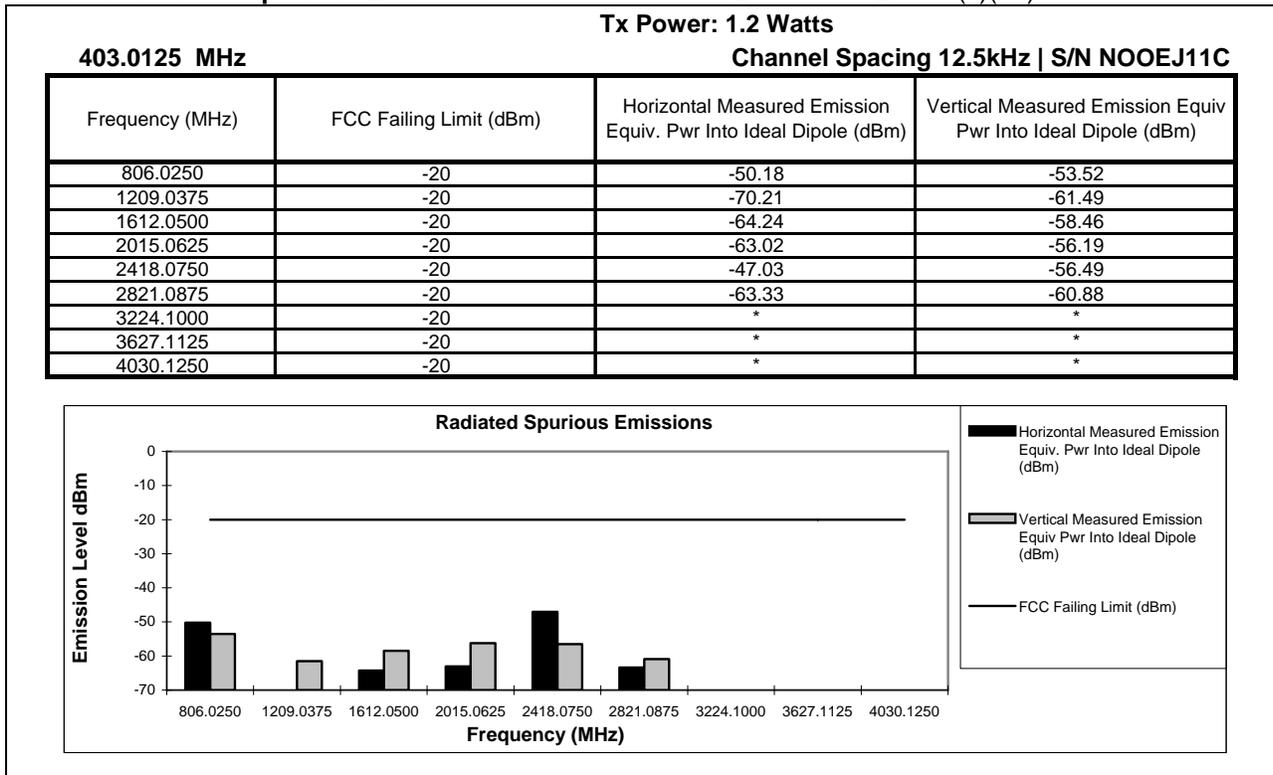


Table 6F-12: 4.8 Watts Harmonic of Carrier 470 MHz, 25 kHz Channel Spacing

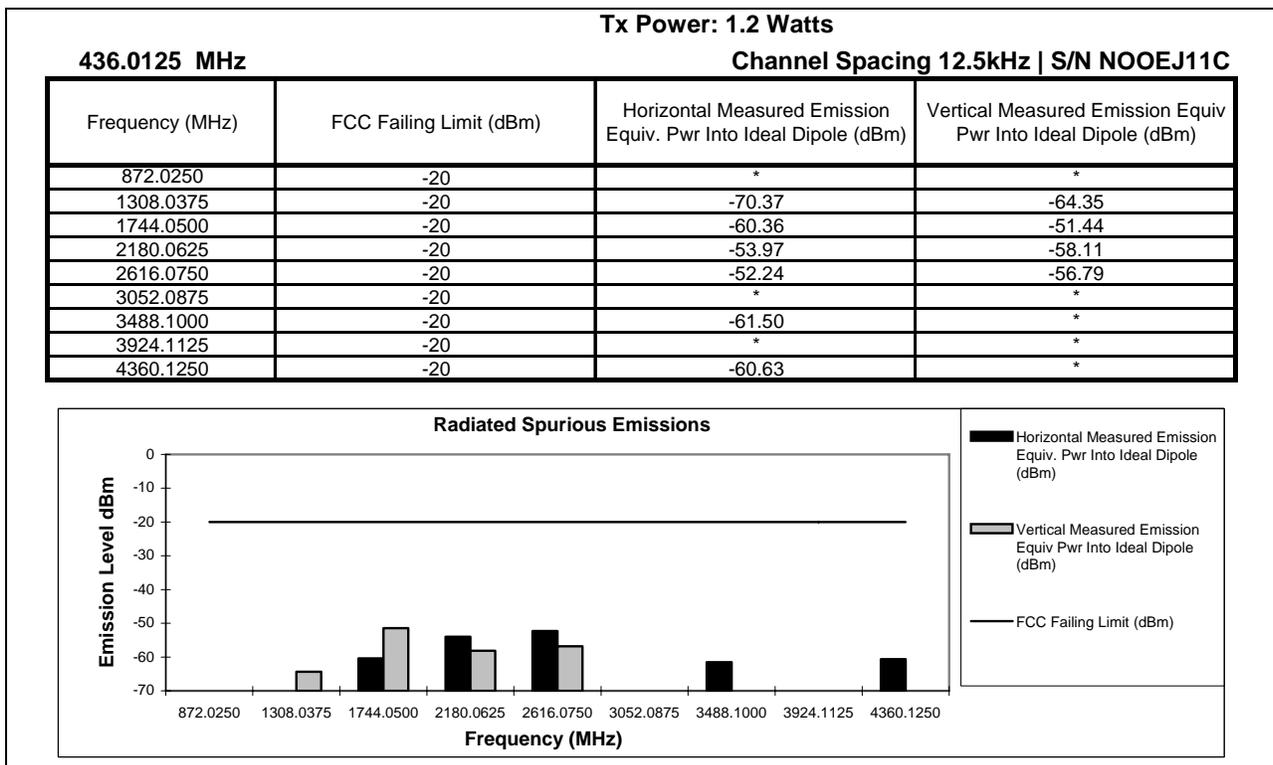
Note: Spurs which are not shown is 50 dB below the specification limits.

EXHIBIT 6G

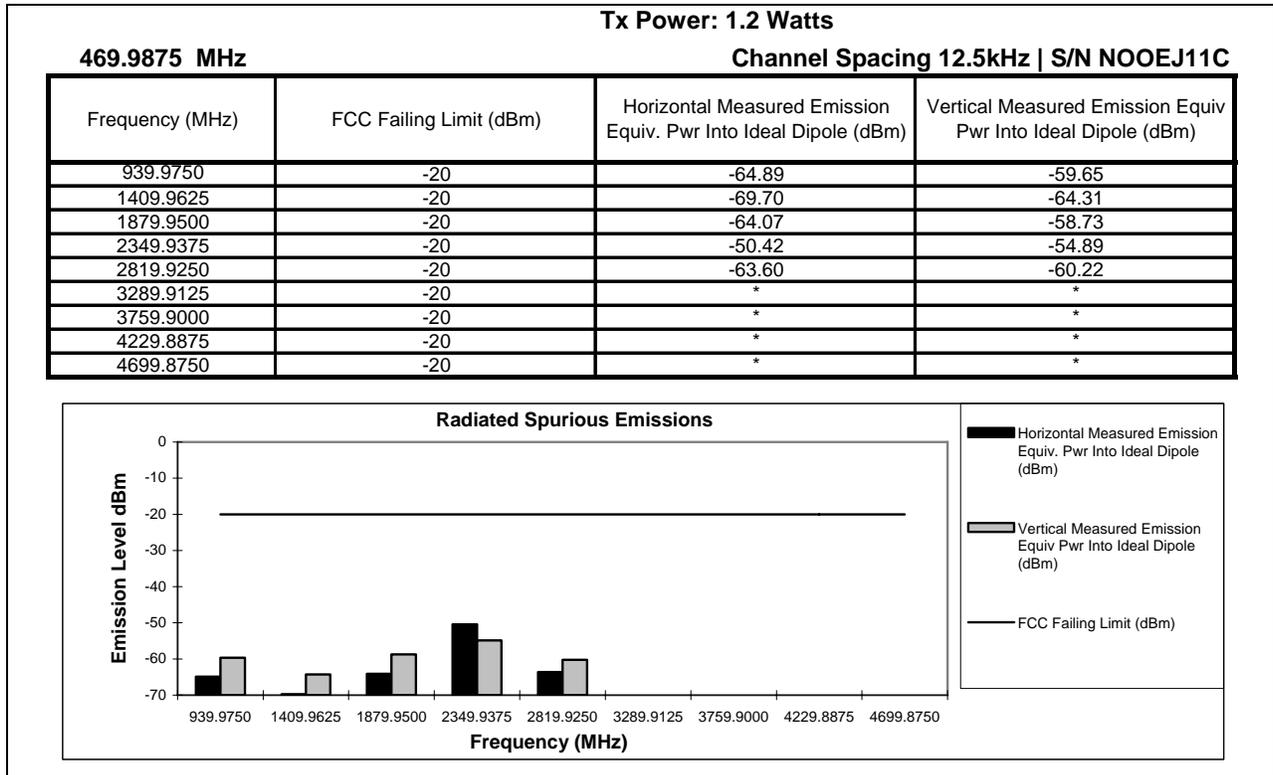
Transmitter Radiated Spurious Emissions - Pursuant 47 CFR 2.1047 and 2.1033(c)(13)



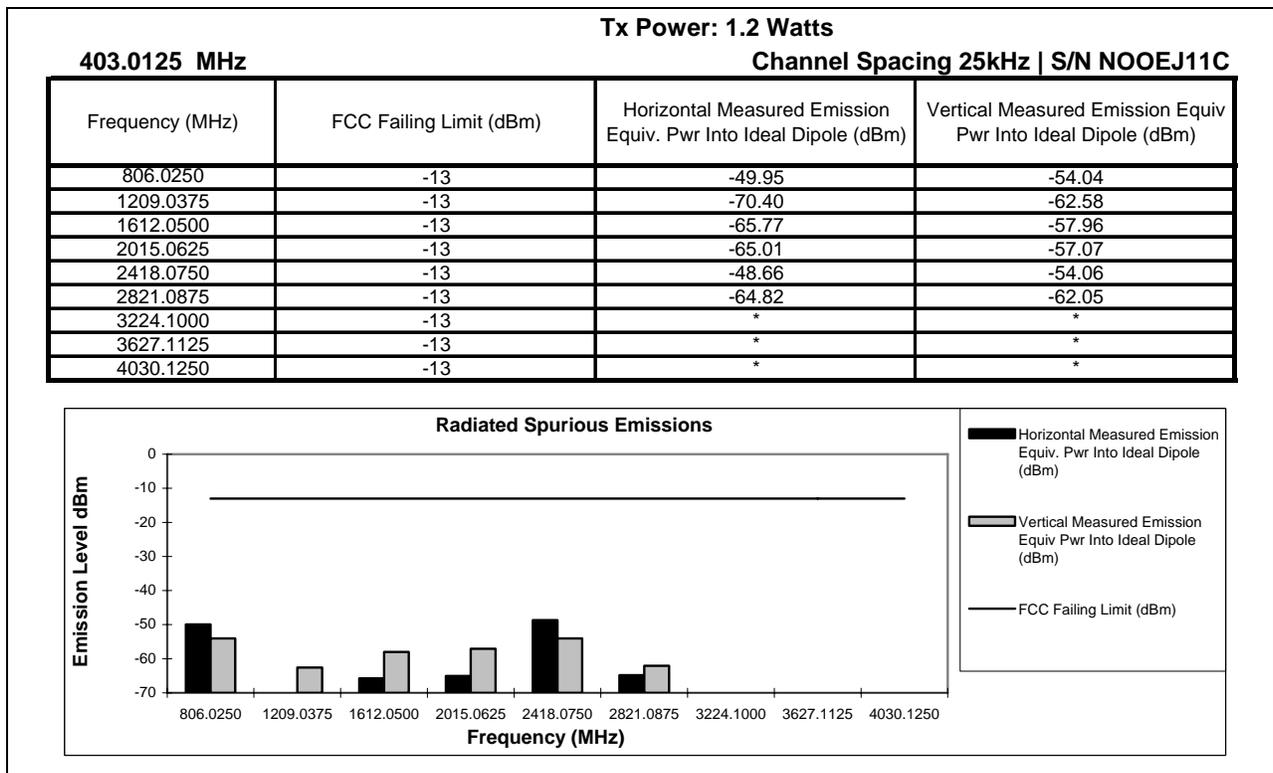
Graph 6G-1: 1 Watt, 403.0125 MHz, 12.5 kHz Channel Spacing



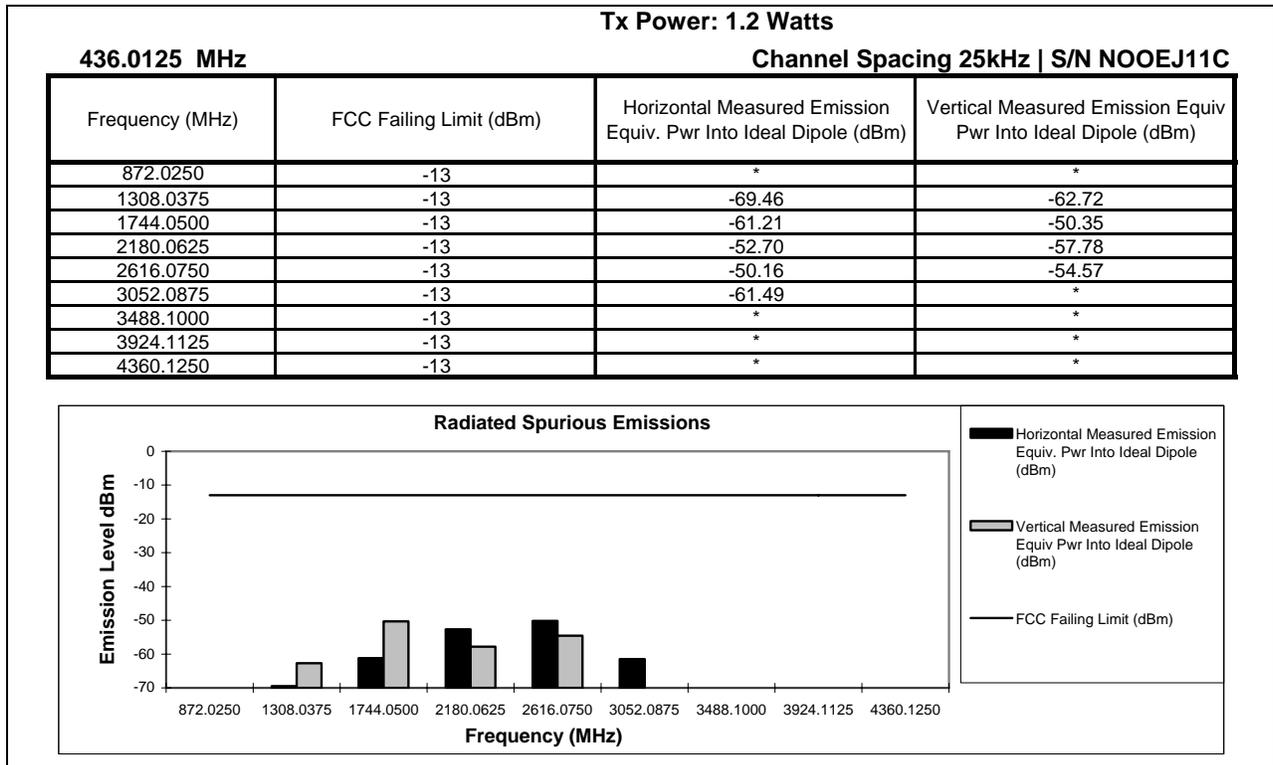
Graph 6G-2: 1 Watt, 436.0125 MHz, 12.5 kHz Channel Spacing



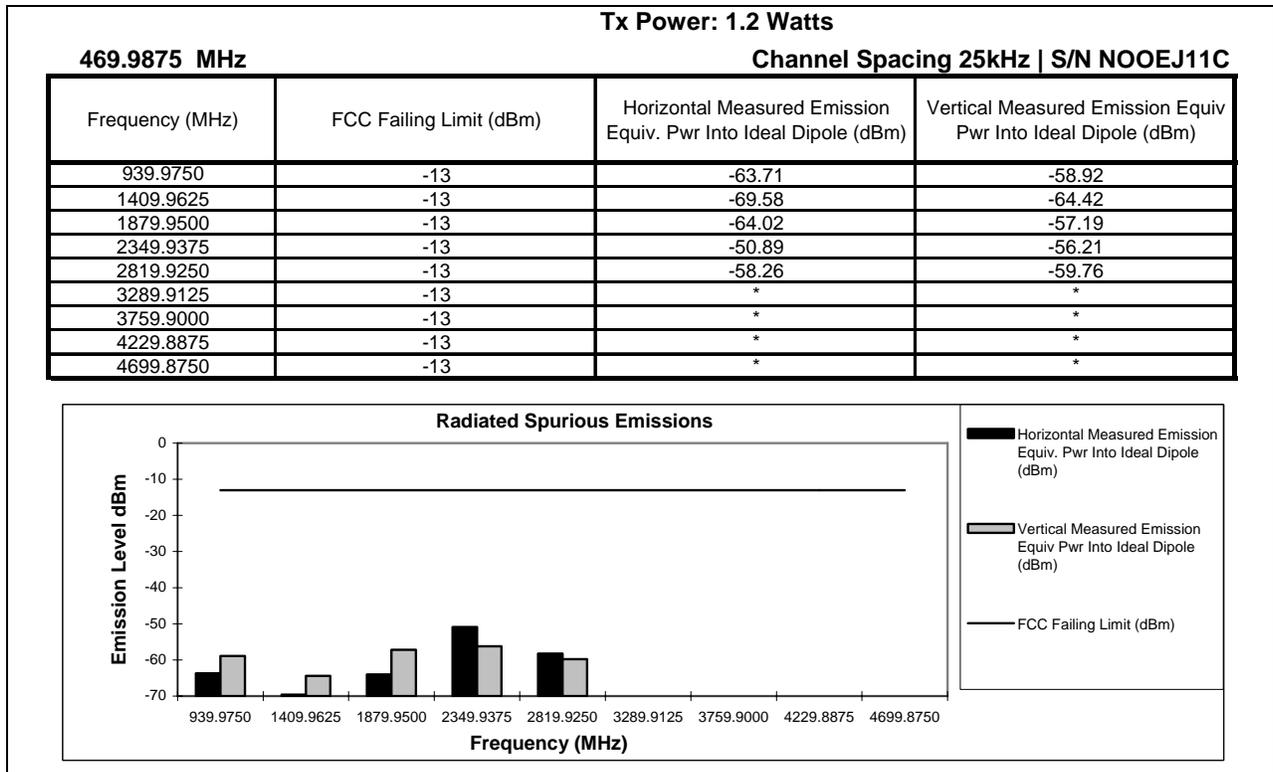
Graph 6G-3: 1 Watt, 469.9875 MHz, 12.5 kHz Channel Spacing



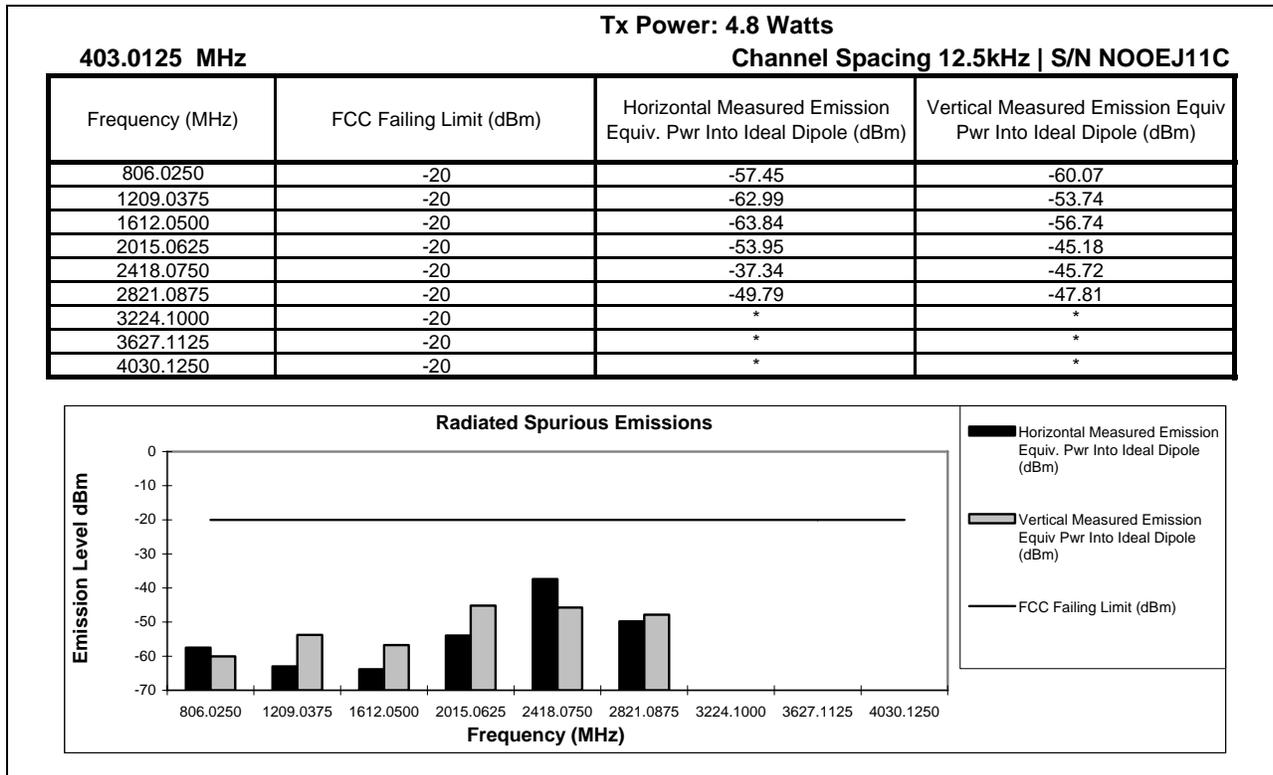
Graph 6G-4: 1 Watt, 403.0125 MHz, 25 kHz Channel Spacing



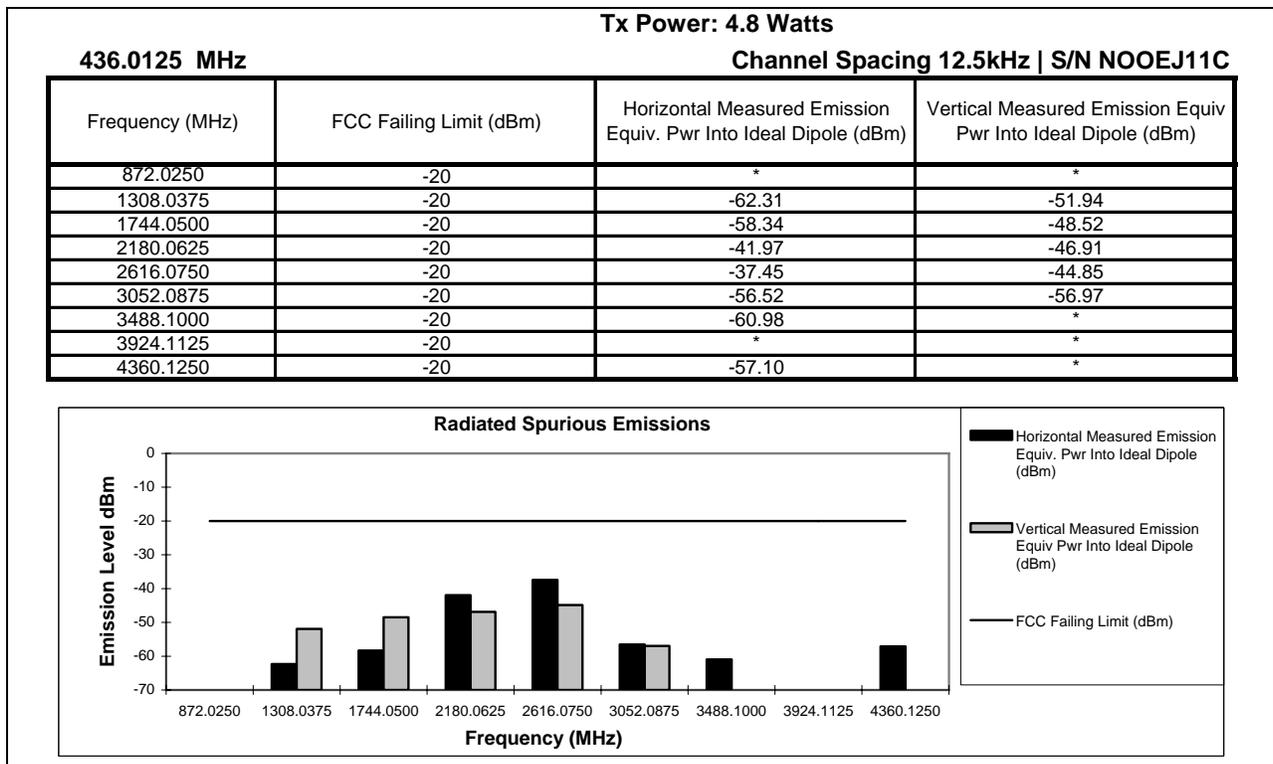
Graph 6G-5: 1 Watts, 436.0125 MHz, 25 kHz Channel Spacing



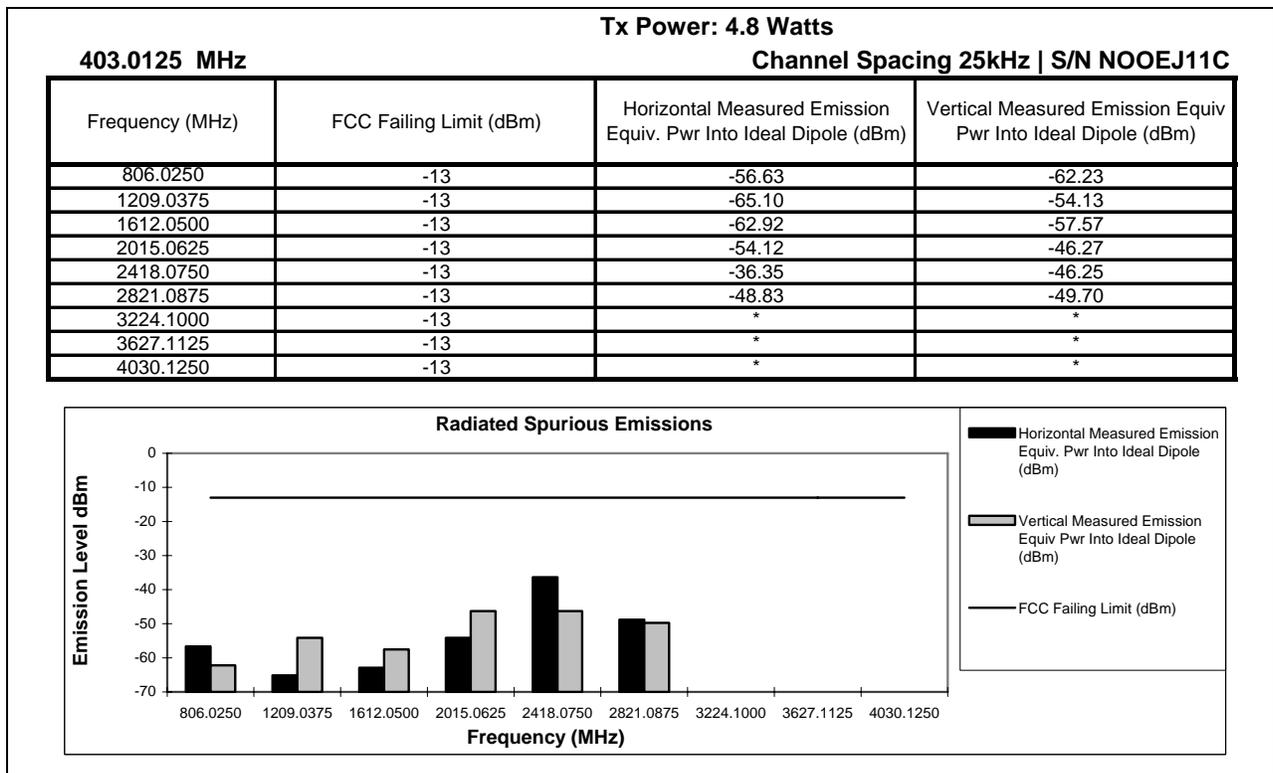
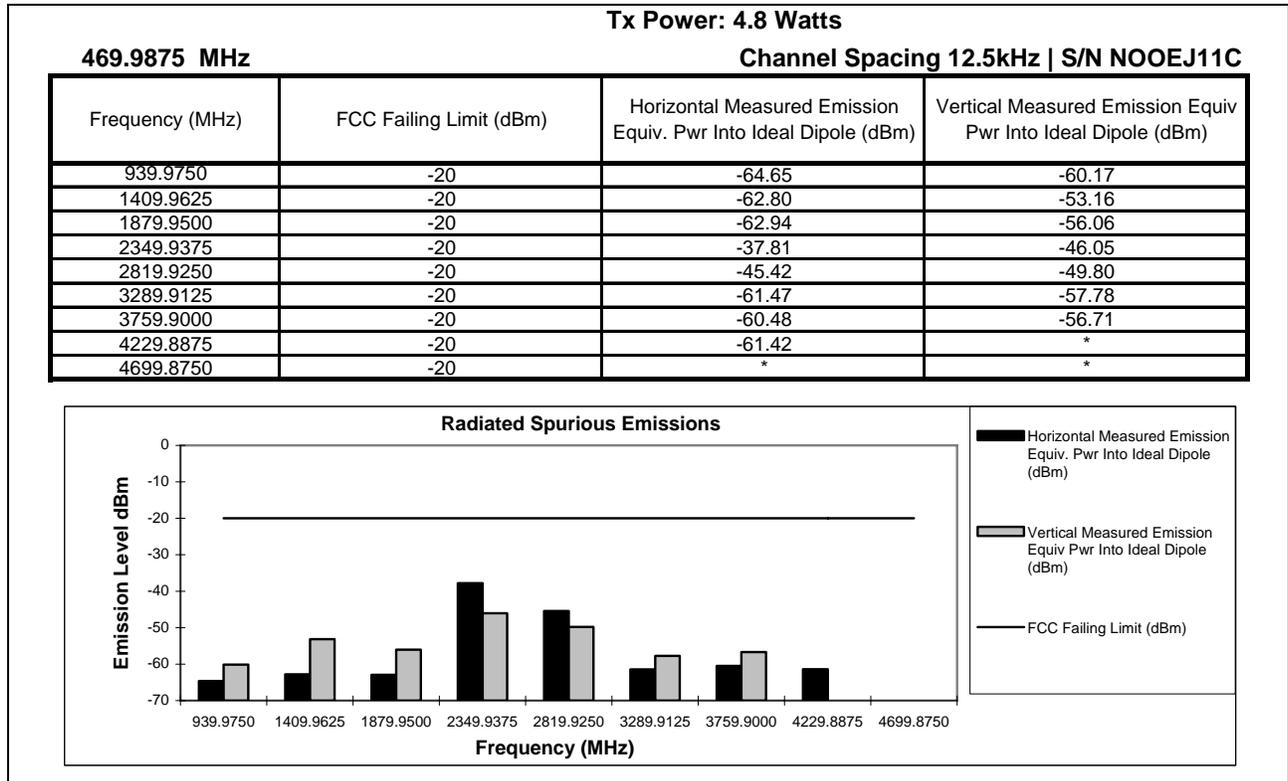
Graph 6G-6: 1 Watt, 469.9875 MHz, 25 kHz Channel Spacing

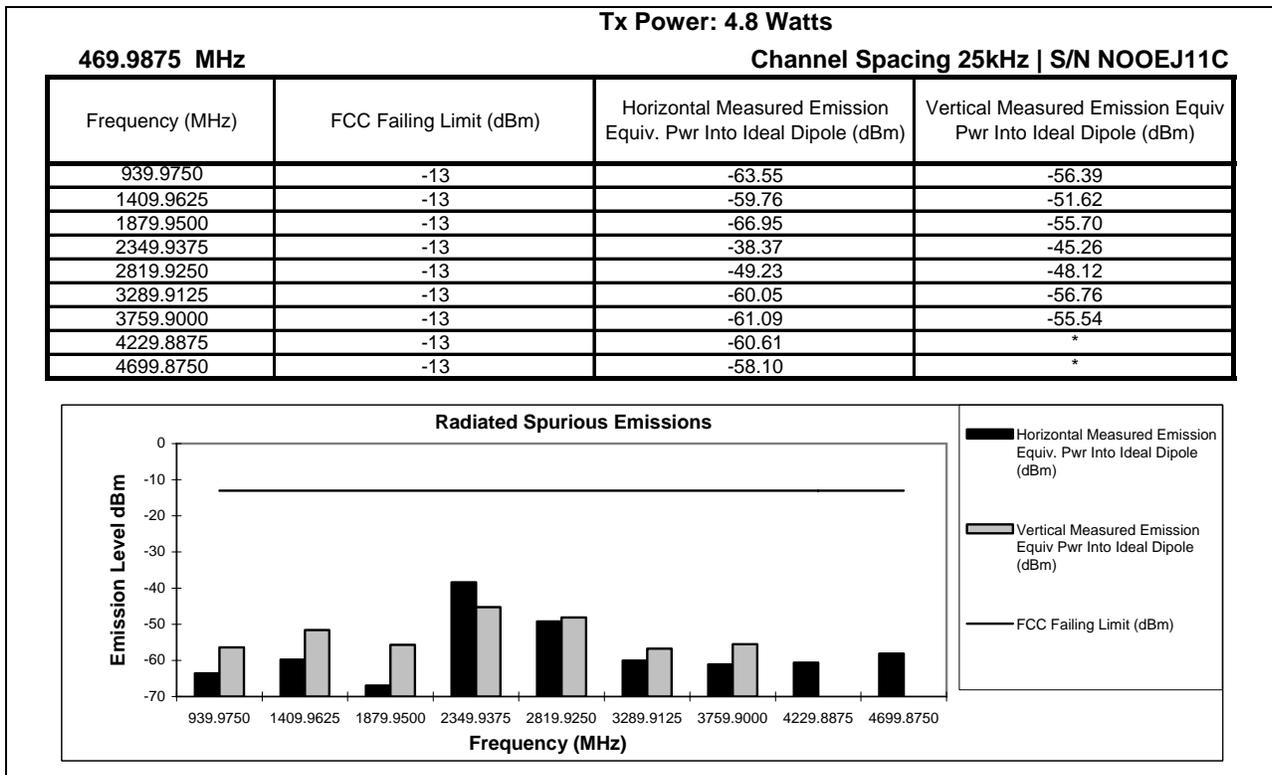
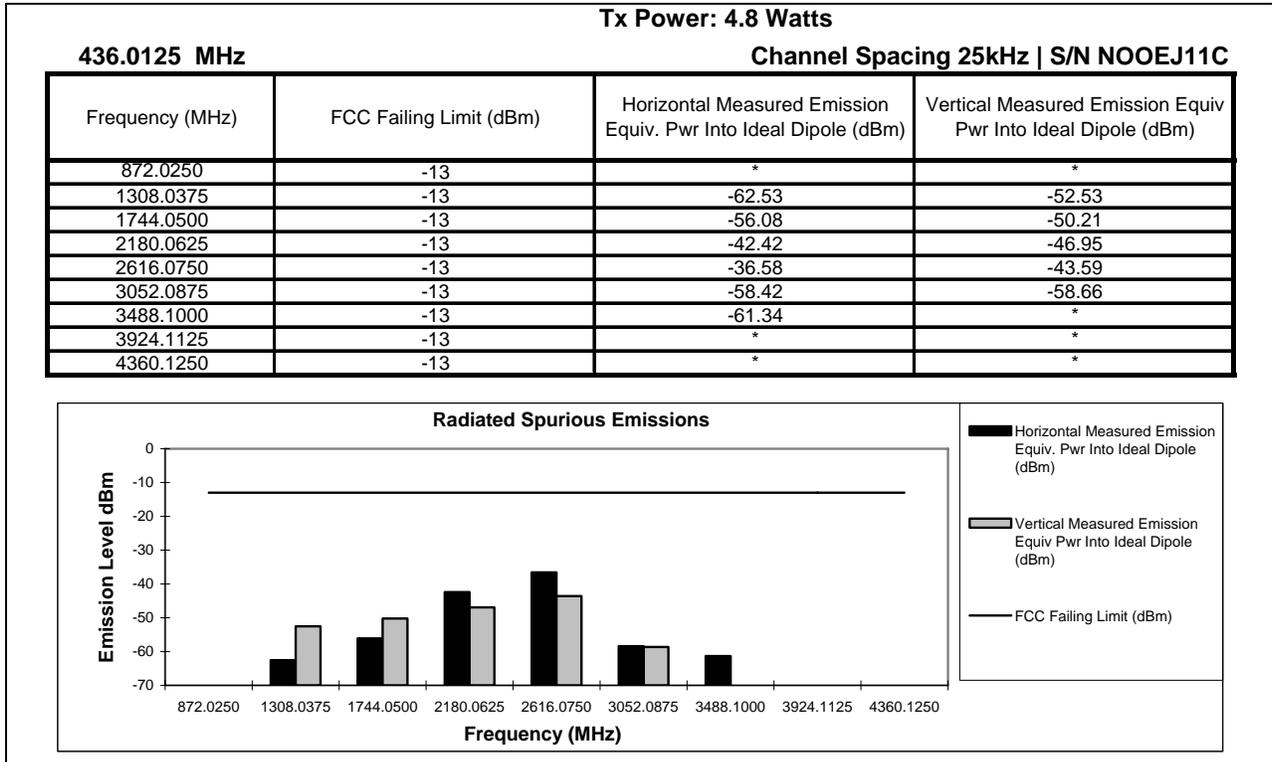


Graph 6G-7: 4.8 Watts, 403.0125 MHz, 12.5 kHz Channel Spacing



Graph 6G-8: 4.8 Watts, 436.0125 MHz, 12.5 kHz Channel Spacing





* Indicates the spurious emission could not be detected due to noise limitations or ambients.

The data presented here was taken using the substitution method as found in the TIA/EIA-603 document.

EXHIBIT 6H

Frequency Stability - Pursuant 47 CFR 2.1047 and 2.1033(c)(13)

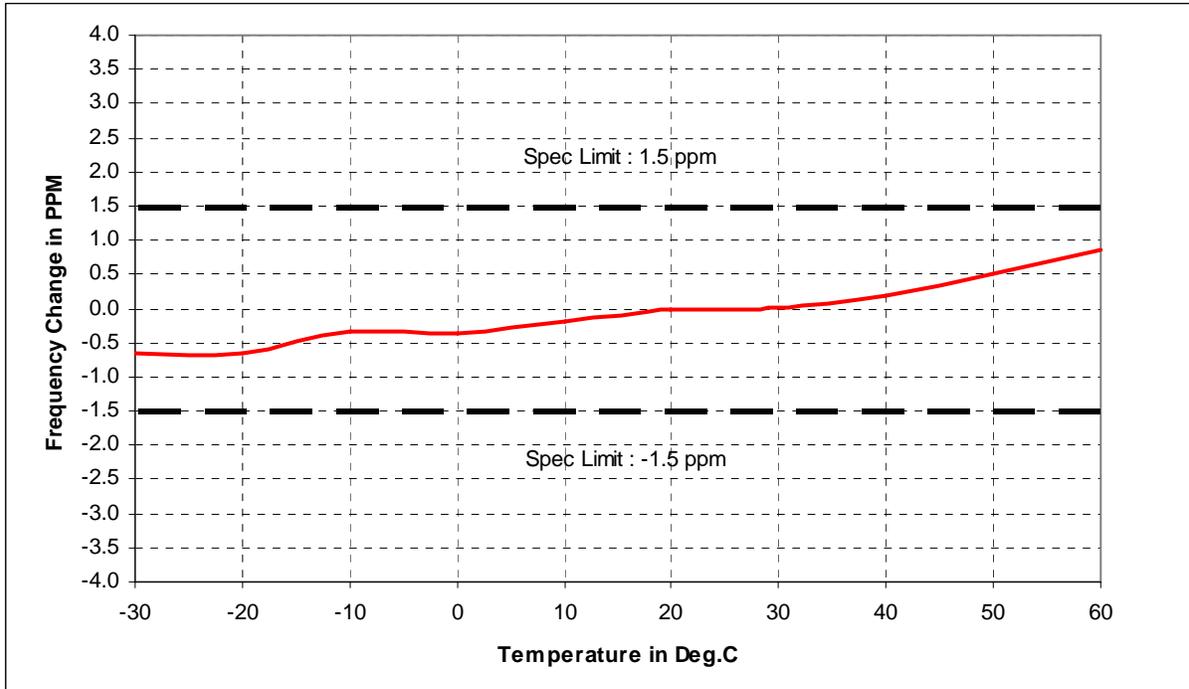
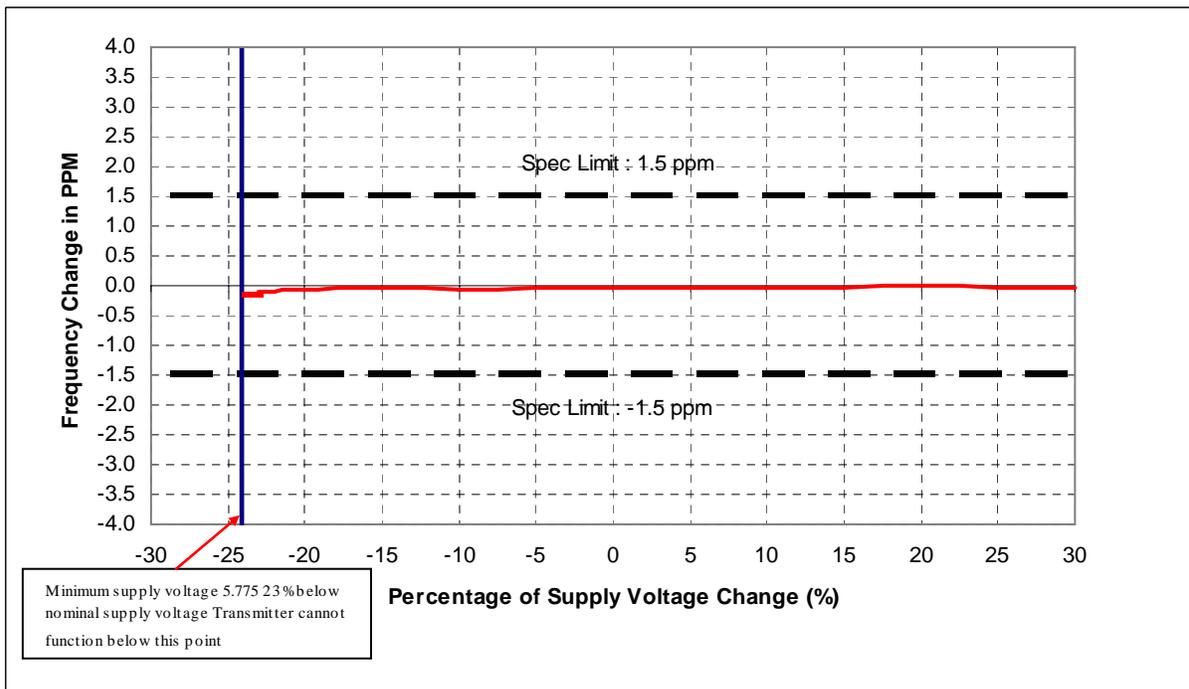


Figure 6H-1: 1.5 ppm Frequency Stability vs. Temperature



Minimum supply voltage 5.775 23% below nominal supply voltage Transmitter cannot function below this point

Figure 6H-2: 1.5 ppm Frequency Stability vs. Supply Voltage

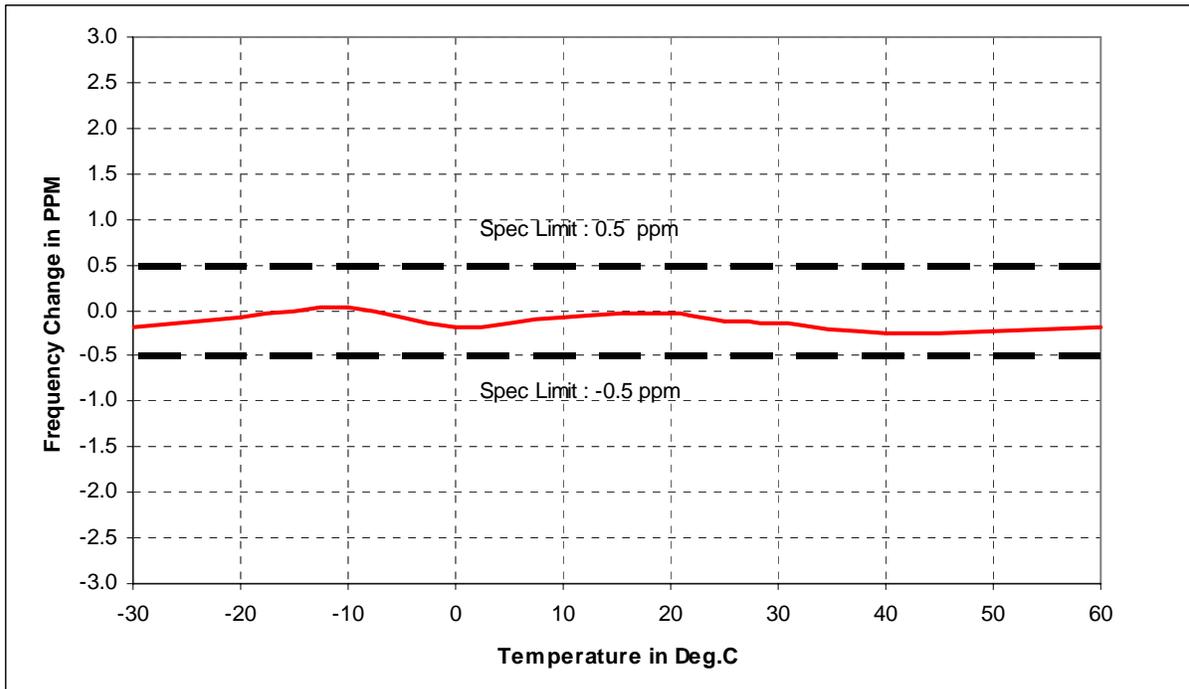


Figure 6H-3: 0.5 ppm Frequency Stability vs. Temperature

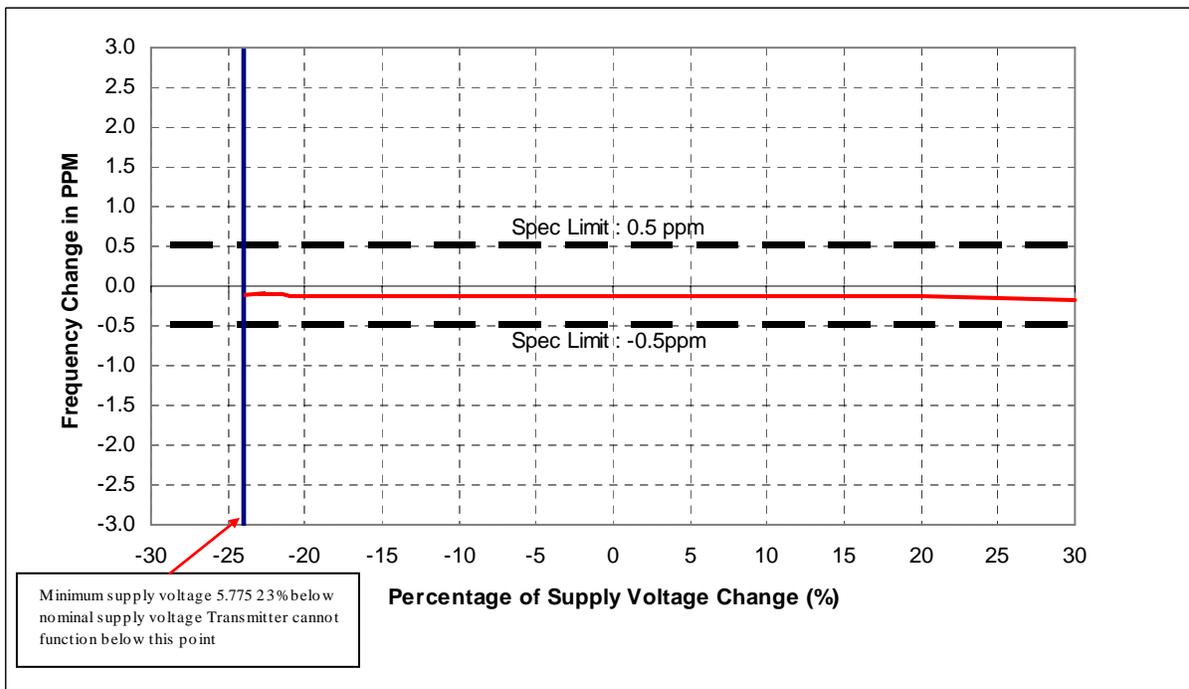


Figure 6H-4: 0.5 ppm Frequency Stability vs. Supply Voltage

EXHIBIT 6I

Transient Frequency Behavior - FCC Rules Part 90.214 and 90.215

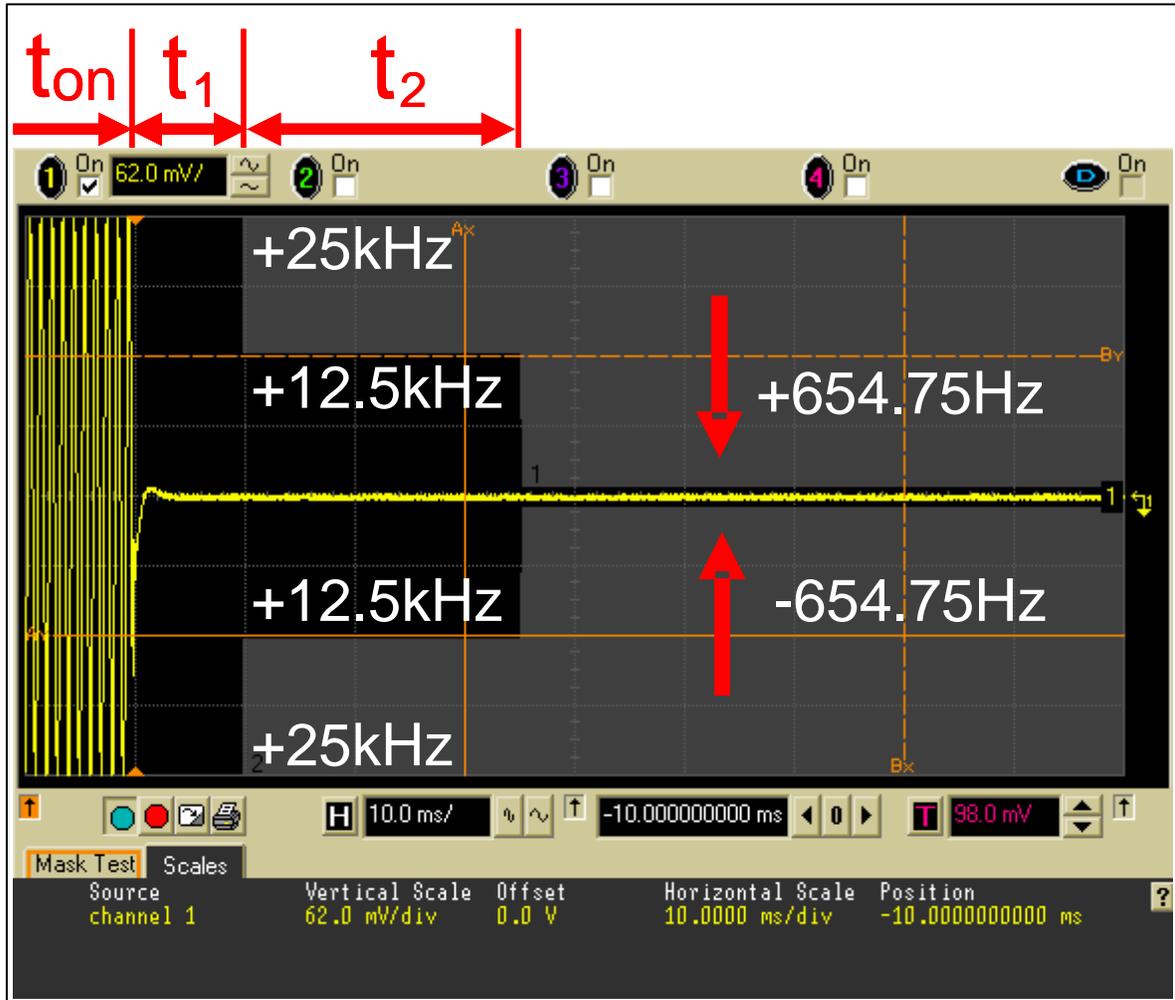


Figure 6I-1: 1.5 ppm, 12.5 kHz Key-Up Attack Time; Freq: 436.5 MHz, 1 Watt.

Note:

$t_1 = 10 \text{ ms}$

$t_2 = 25 \text{ ms}$

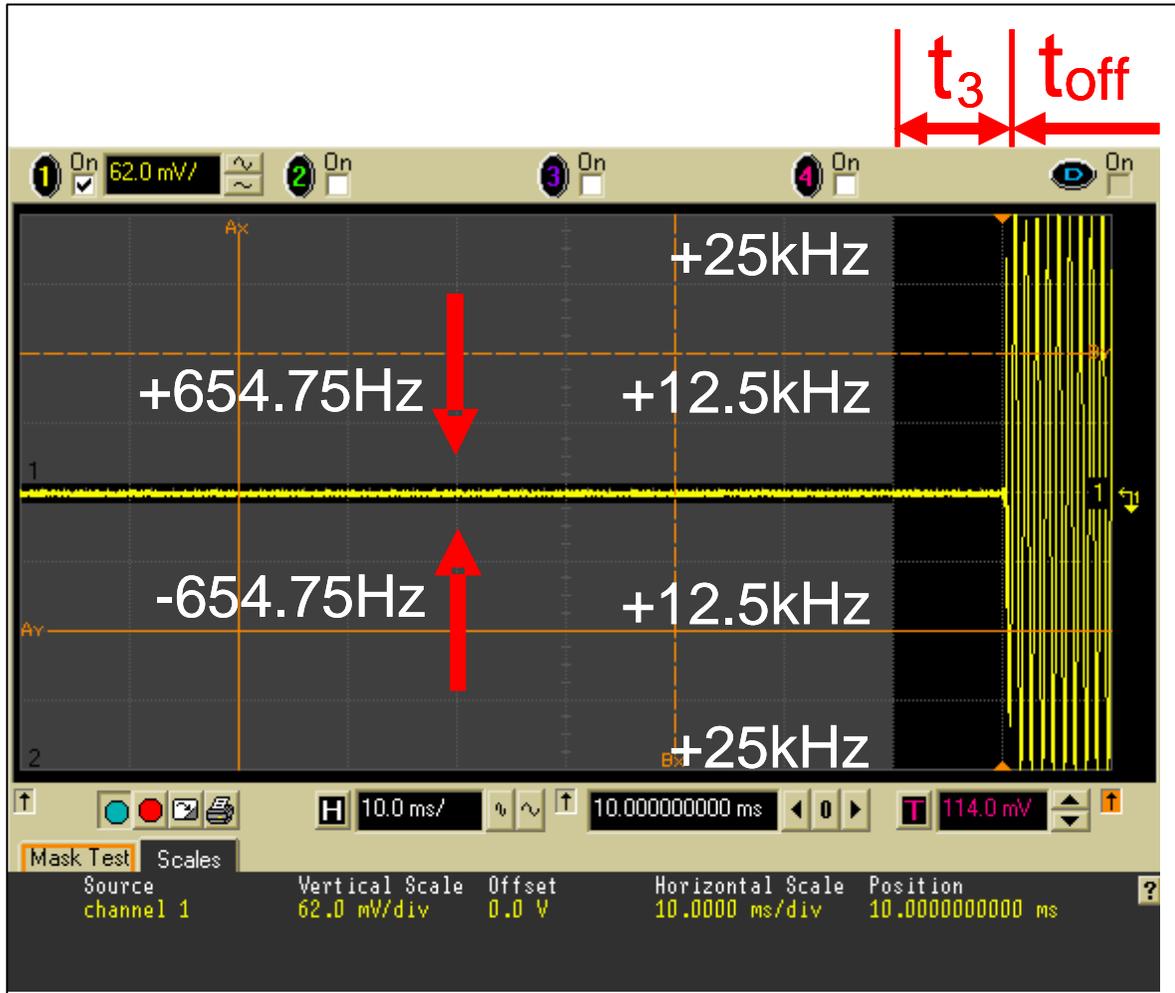


Figure 6I-2: 1.5 ppm, 12.5 kHz De-Key Decay Time; Freq: 436.5 MHz, 1 Watt.

Note:

$t_3 = 10 \text{ ms}$

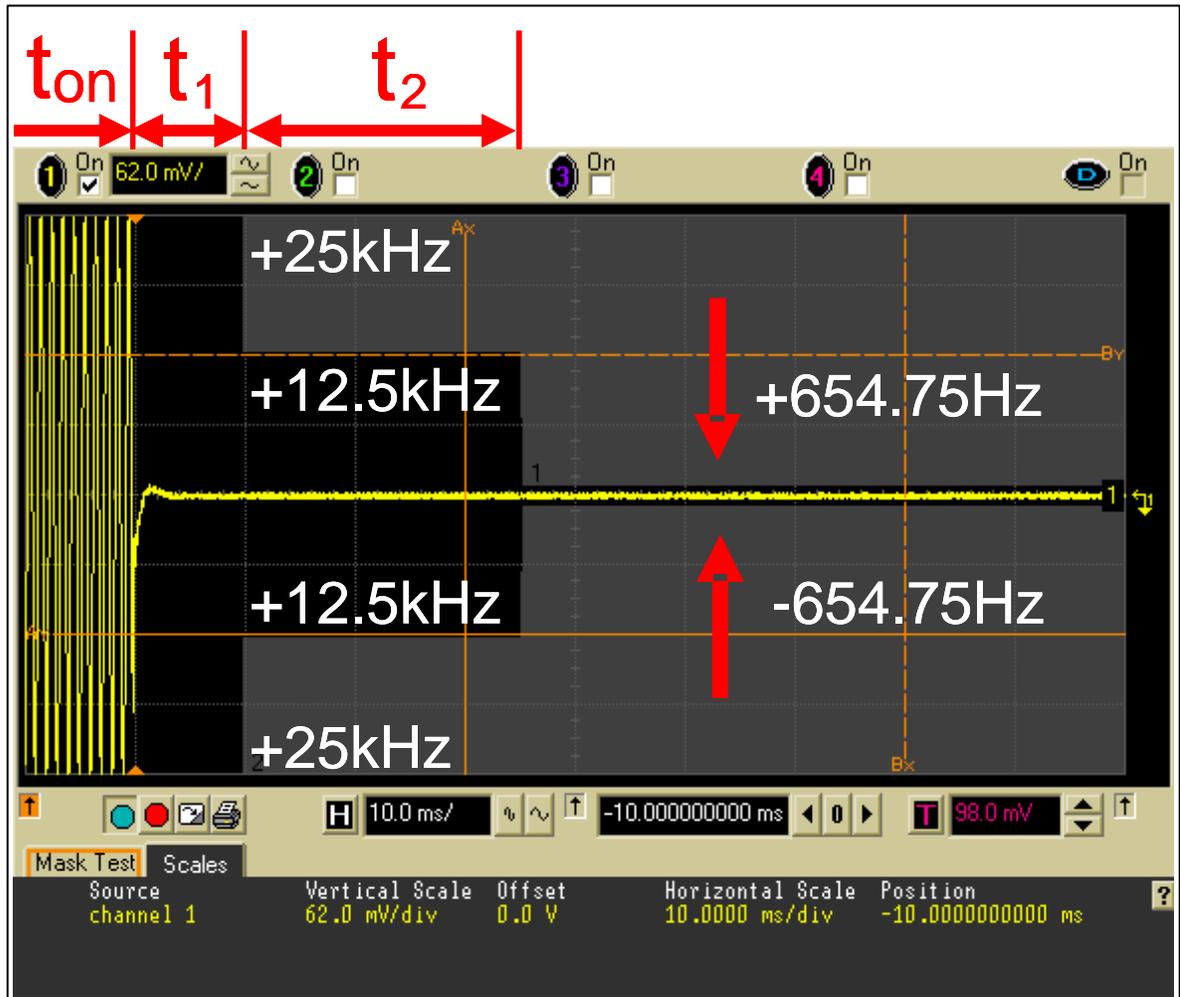


Figure 6I-3: 1.5 ppm, 25.0 kHz Key-Up Attack Time; Freq: 436.5 MHz, 1 Watt.

Note:

$t_1 = 10 \text{ ms}$

$t_2 = 25 \text{ ms}$

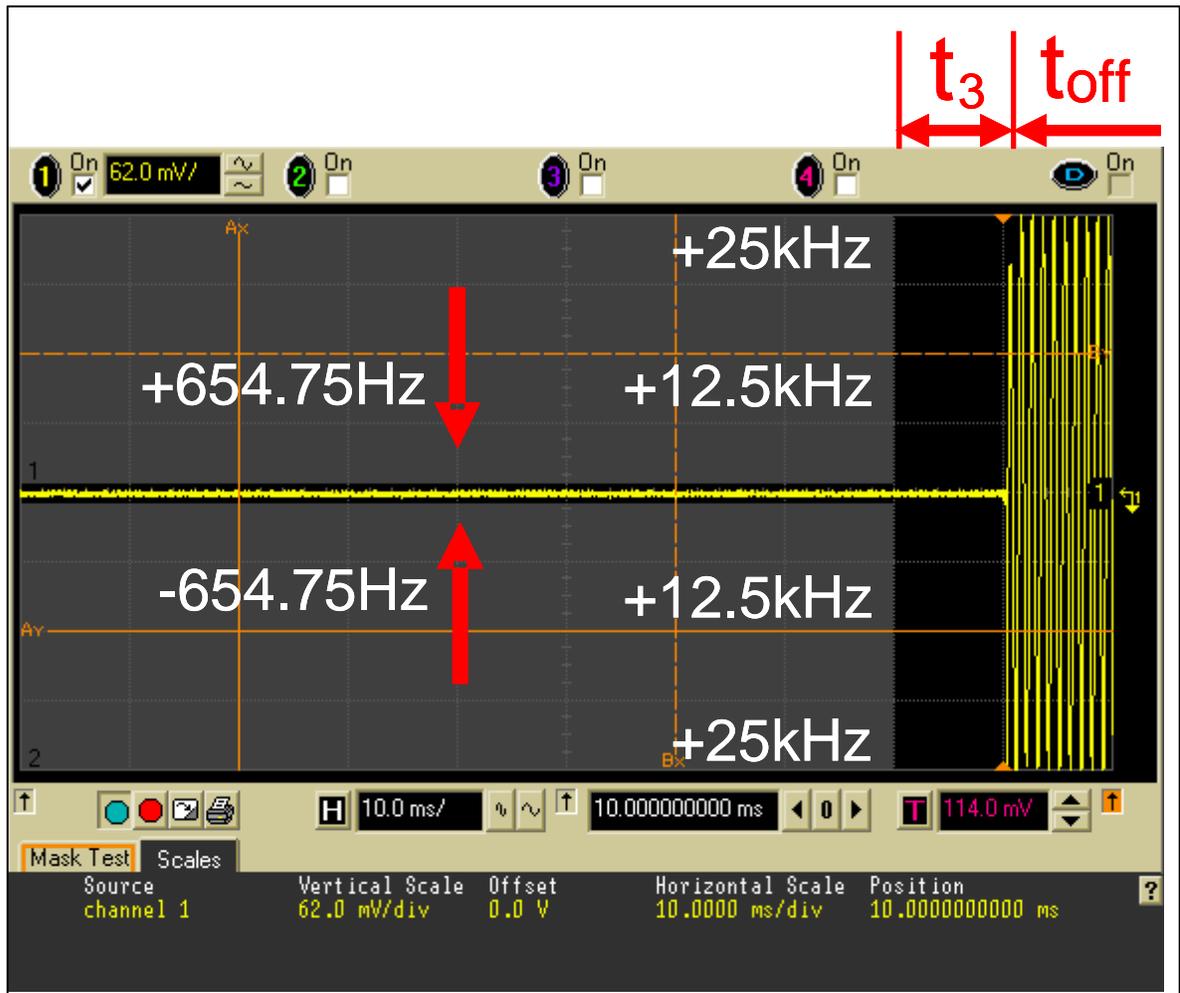


Figure 6I-4: 1.5 ppm, 25.0 kHz De-Key Decay Time; Freq: 436.5 MHz, 1 Watt.

Note:

$t_3 = 10 \text{ ms}$

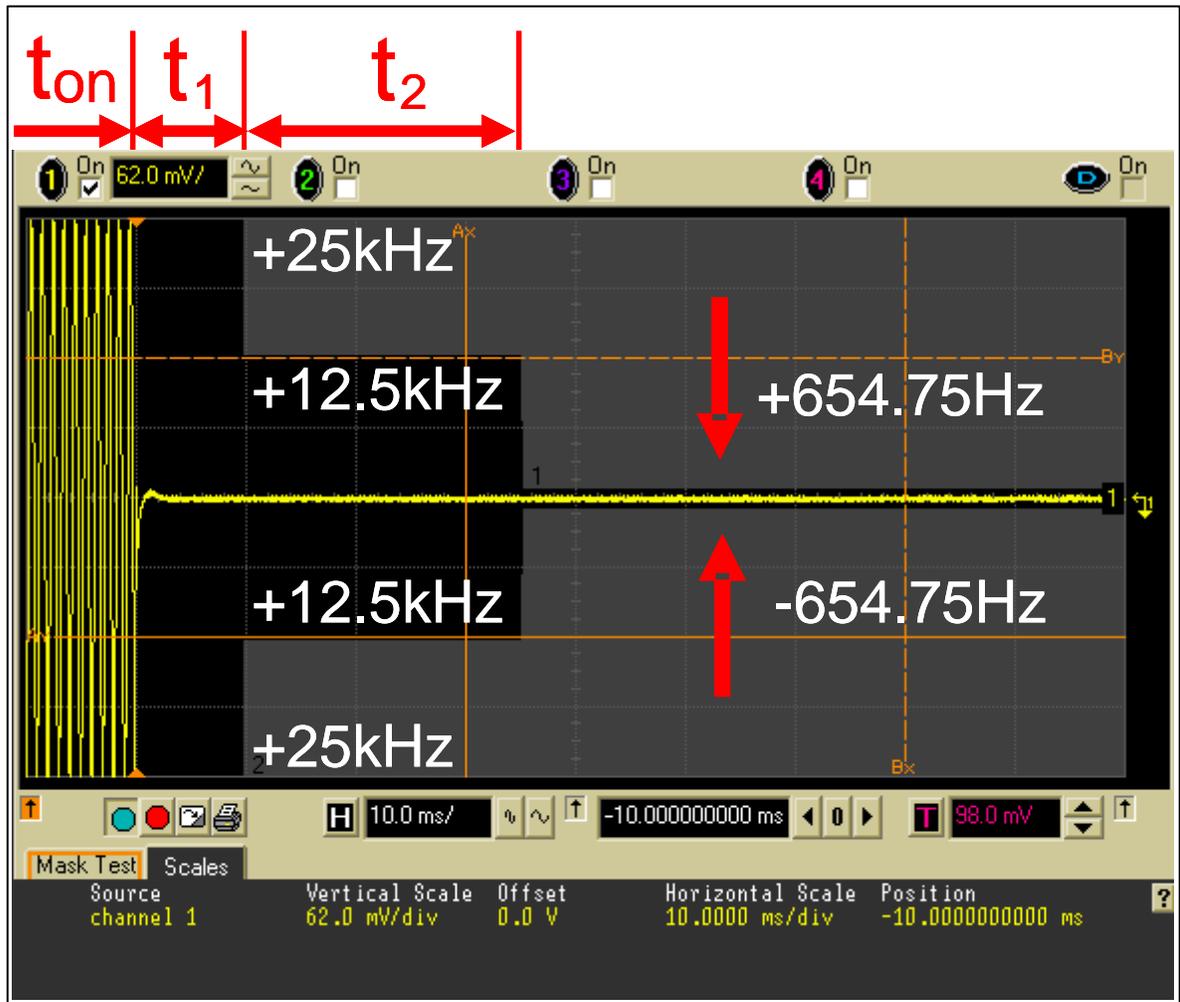


Figure 6I-5: 1.5 ppm, 12.5 kHz Key-Up Attack Time; Freq: 436.5 MHz, 4.8 Watts.

Note:

- $t_1 = 10 \text{ ms}$
- $t_2 = 25 \text{ ms}$

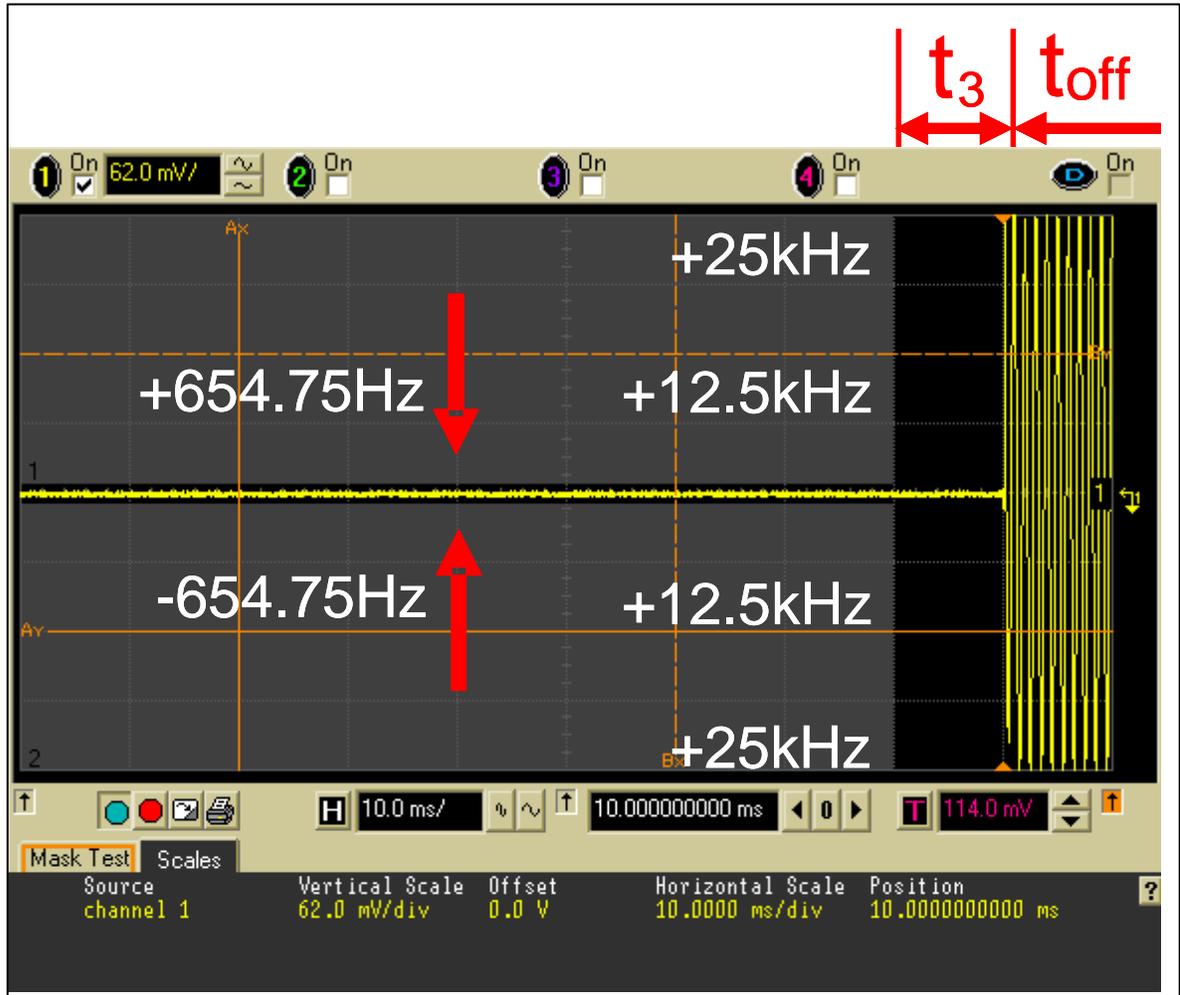


Figure 6I-6: 1.5 ppm, 12.5 kHz De-Key Decay Time; Freq: 436.5 MHz, 4.8 Watts.

Note:

$t_3 = 10 \text{ ms}$

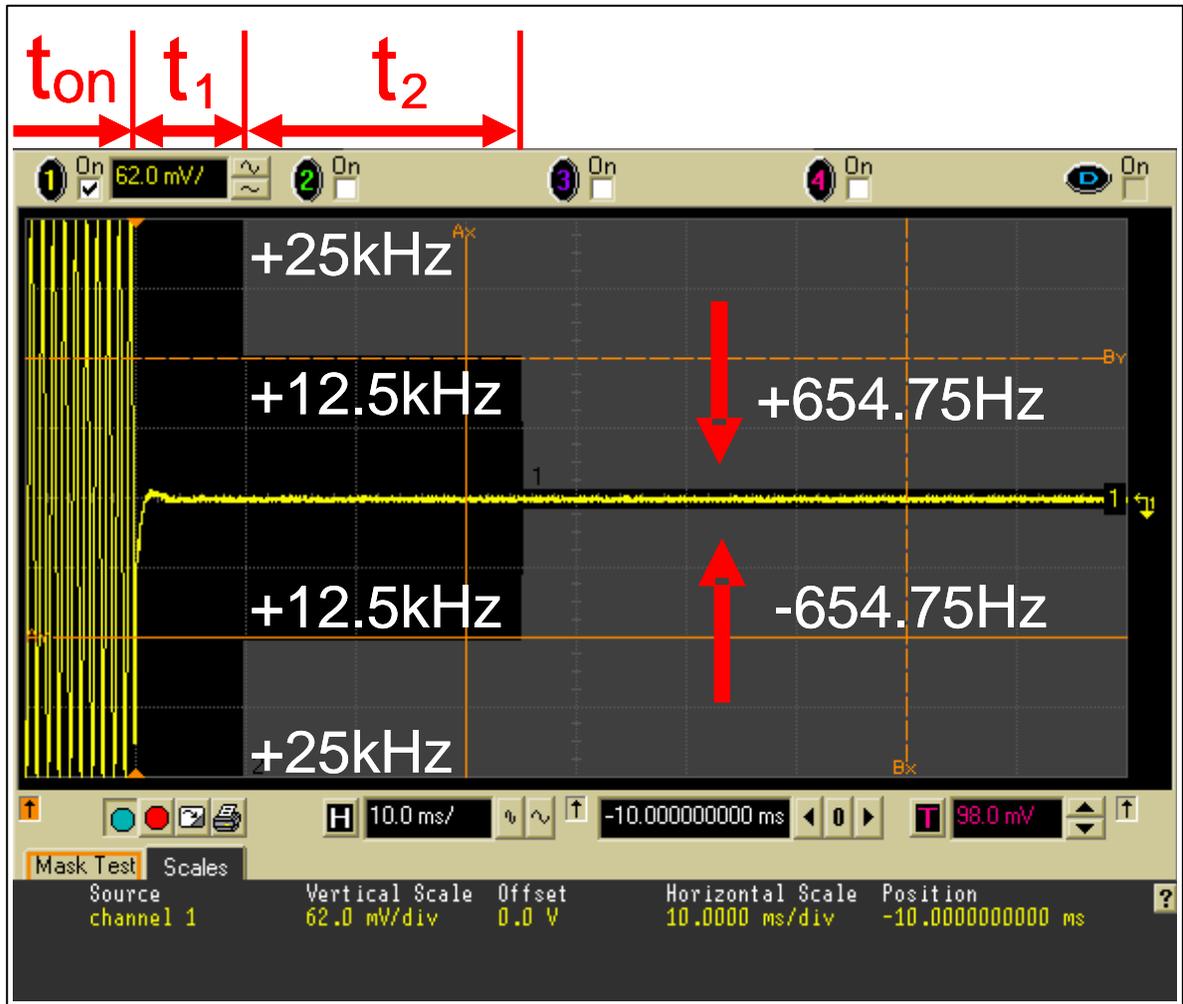


Figure 6I-7: 1.5 ppm, 25.0 kHz Key-Up Attack Time; Freq: 436.5 MHz, 4.8 Watts

Note:

- $t_1 = 10 \text{ ms}$
- $t_2 = 25 \text{ ms}$

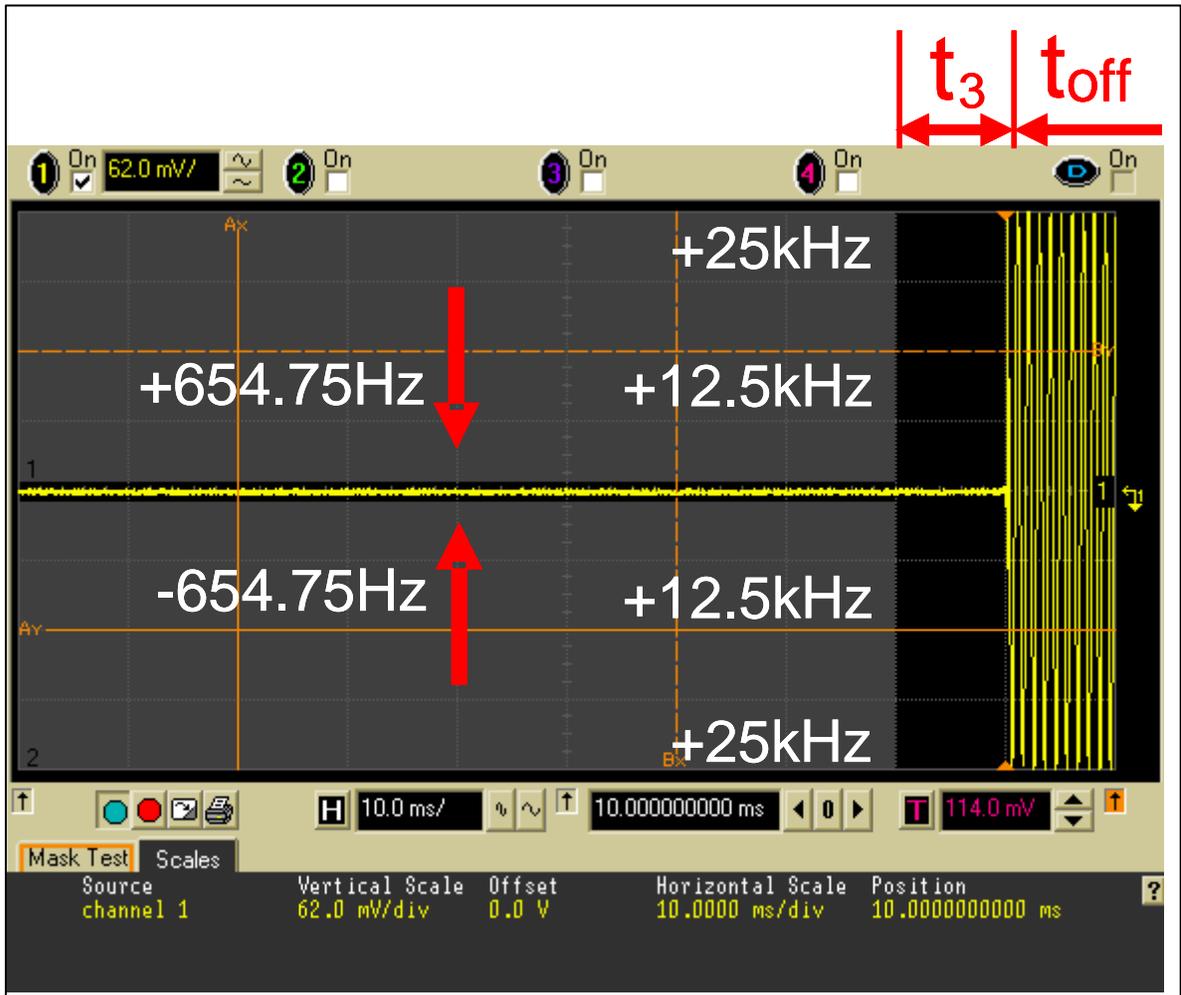


Figure 6I-8: 1.5 ppm, 25.0 kHz De-Key Decay Time; Freq: 436.5 MHz, 4.8 Watts.

Note:

$t_3 = 10 \text{ ms}$

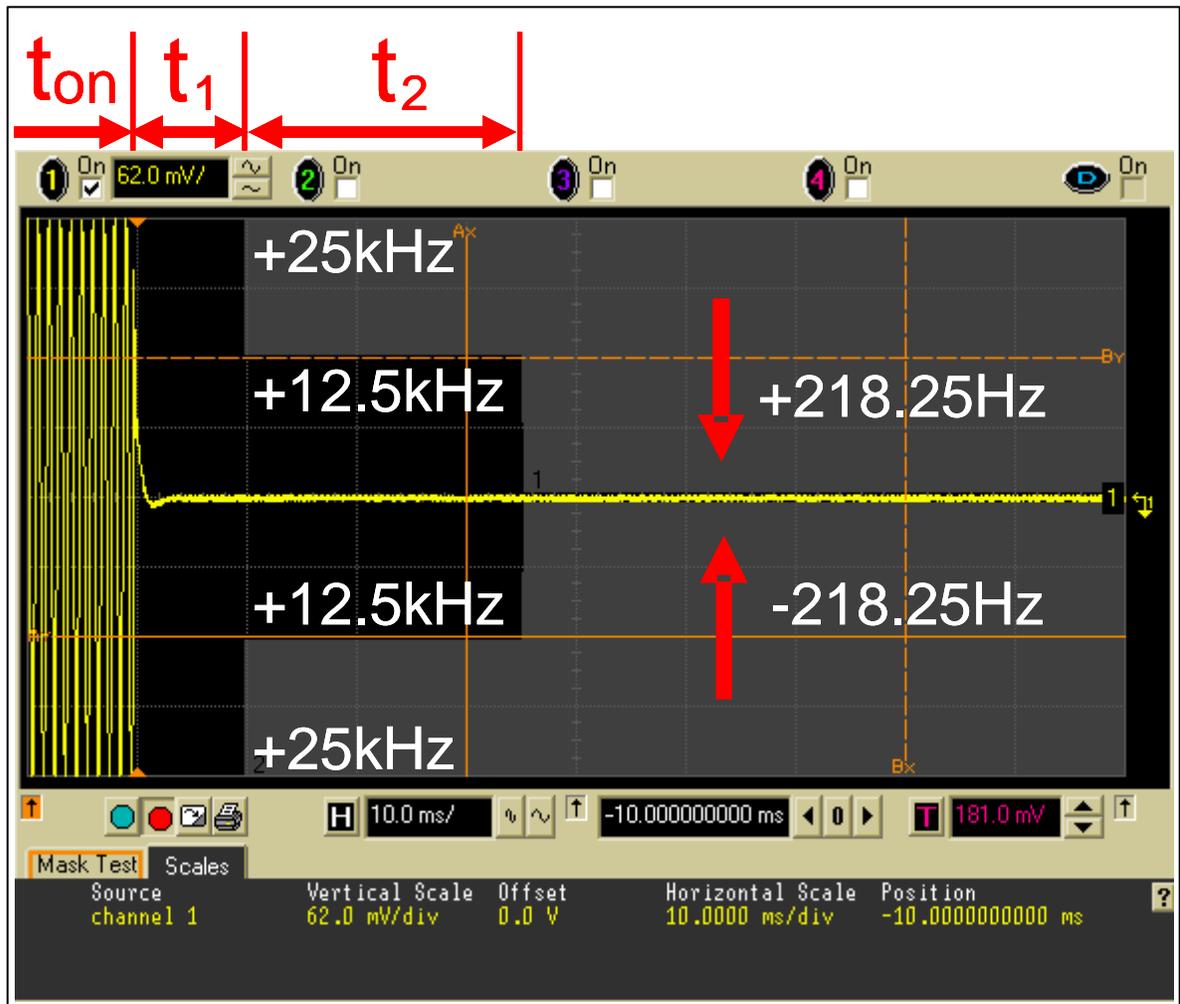


Figure 6I-9: 0.5 ppm, 12.5 kHz Key-Up Attack Time; Freq: 436.5 MHz, 1 Watt.

Note:

$t_1 = 10$ ms

$t_2 = 25$ ms

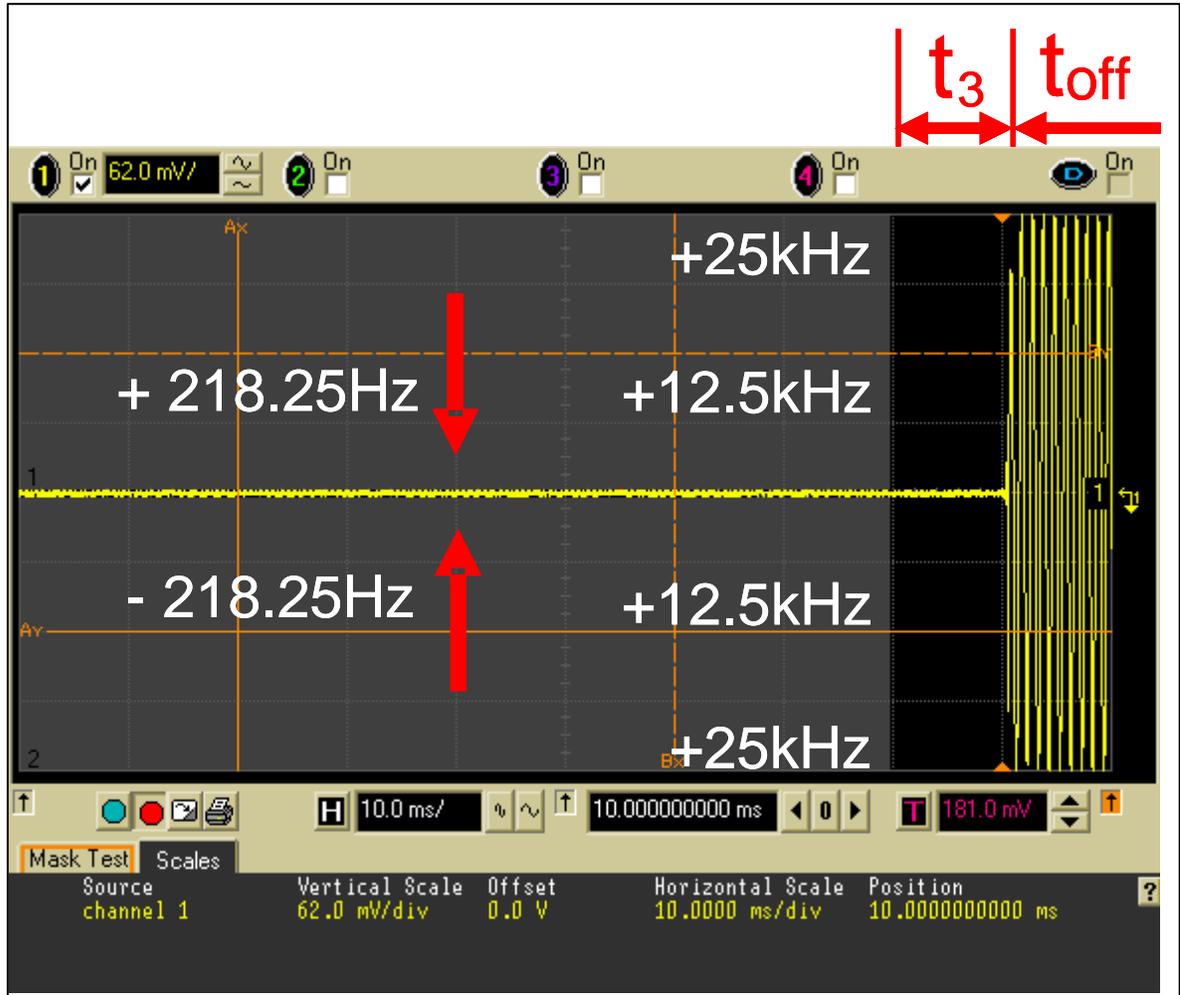


Figure 6I-10: 0.5 ppm, 12.5 kHz De-Key Decay Time; Freq: 436.5 MHz, 1 Watt.

Note:

$t_3 = 10 \text{ ms}$

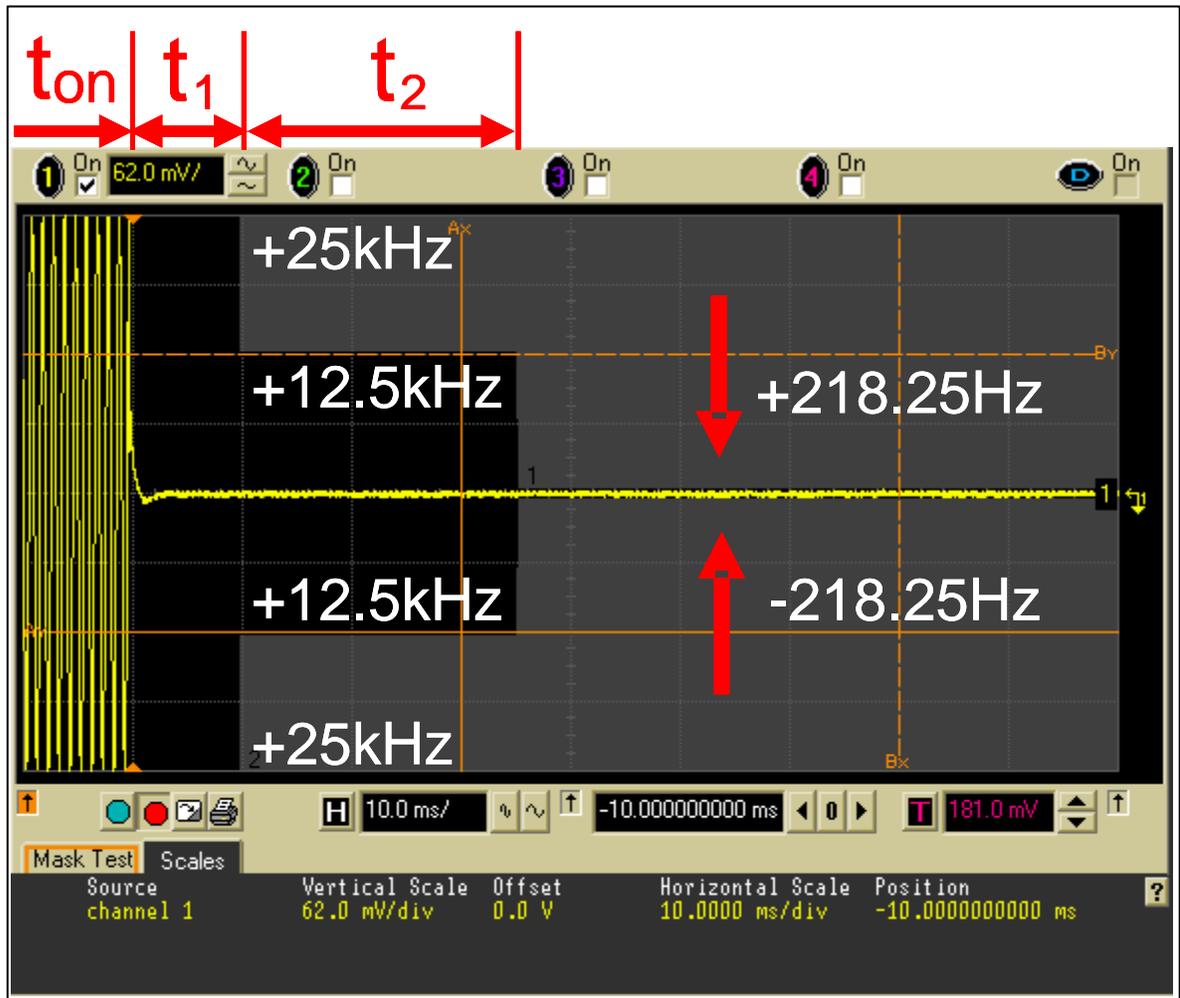


Figure 6I-11: 0.5 ppm, 25.0 kHz Key-Up Attack Time; Freq: 436.5 MHz, 1 Watt.

Note:

- $t_1 = 10 \text{ ms}$
- $t_2 = 25 \text{ ms}$

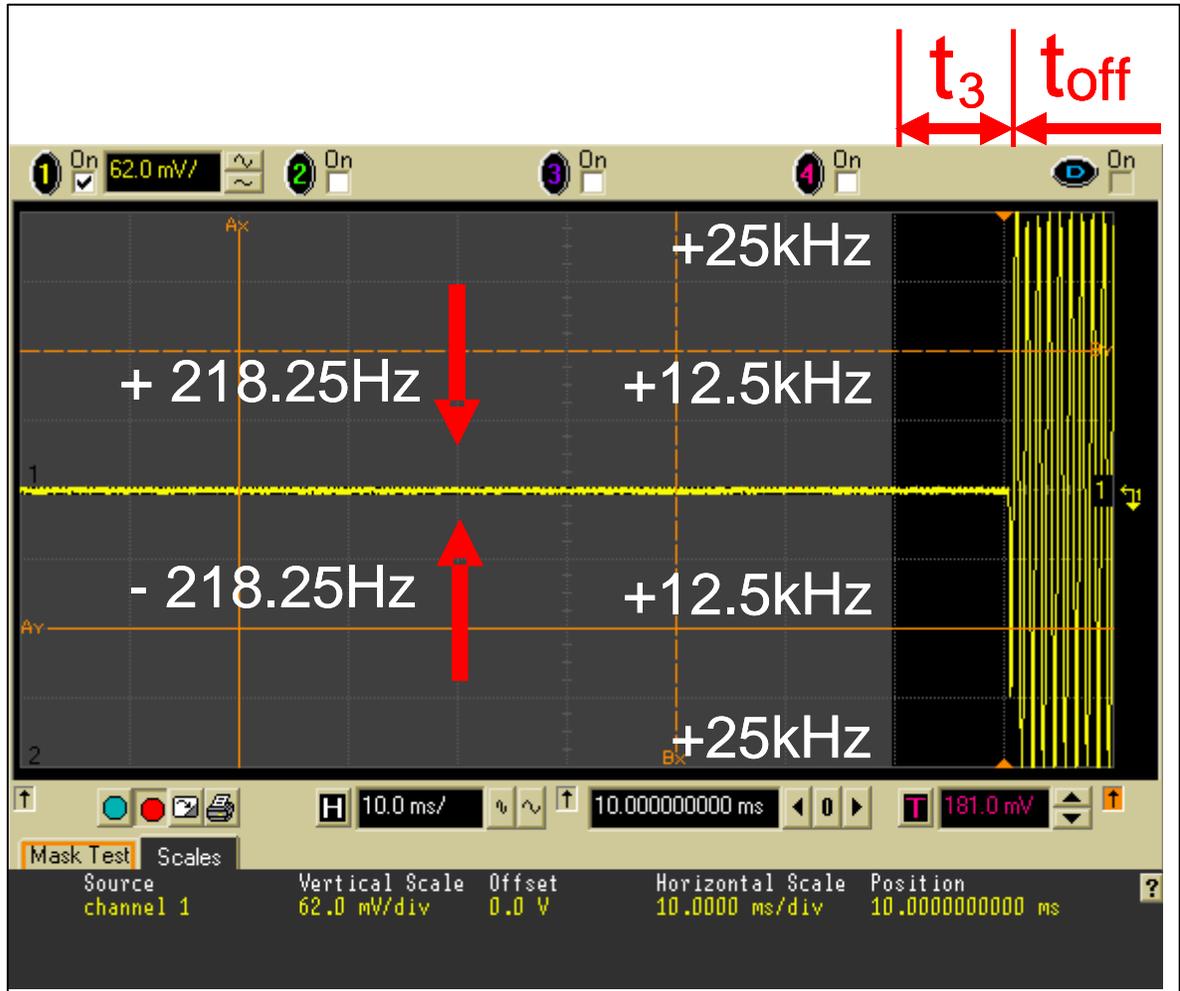


Figure 6I-12: 0.5 ppm, 25.0 kHz De-Key Decay Time; Freq: 436.5 MHz, 1 Watt.

Note:

$t_3 = 10 \text{ ms}$

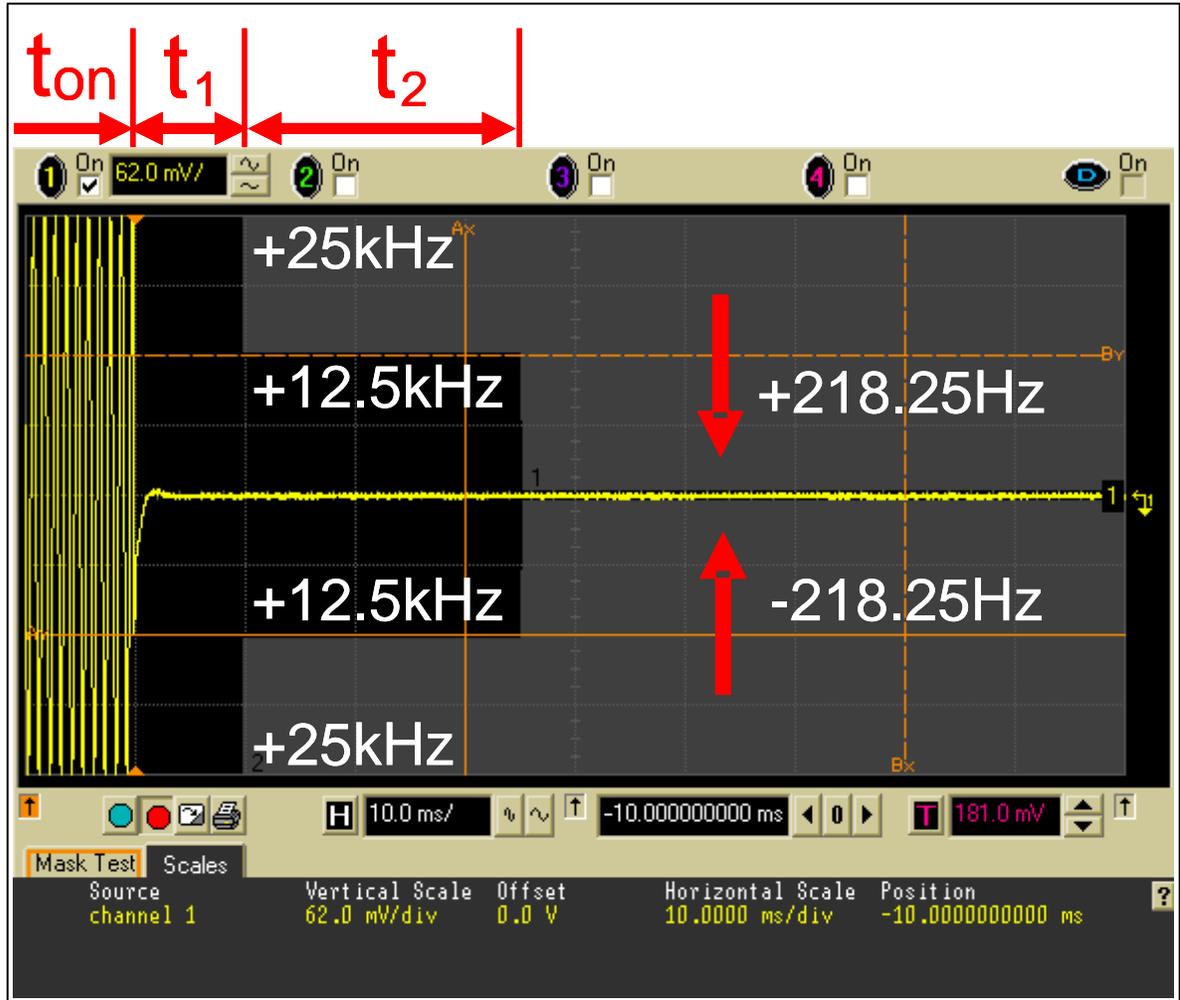


Figure 6I-13: 0.5 ppm, 12.5 kHz Key-Up Attack Time; Freq: 436.5 MHz, 4.8 Watts.

Note:

$t_1 = 10$ ms

$t_2 = 25$ ms

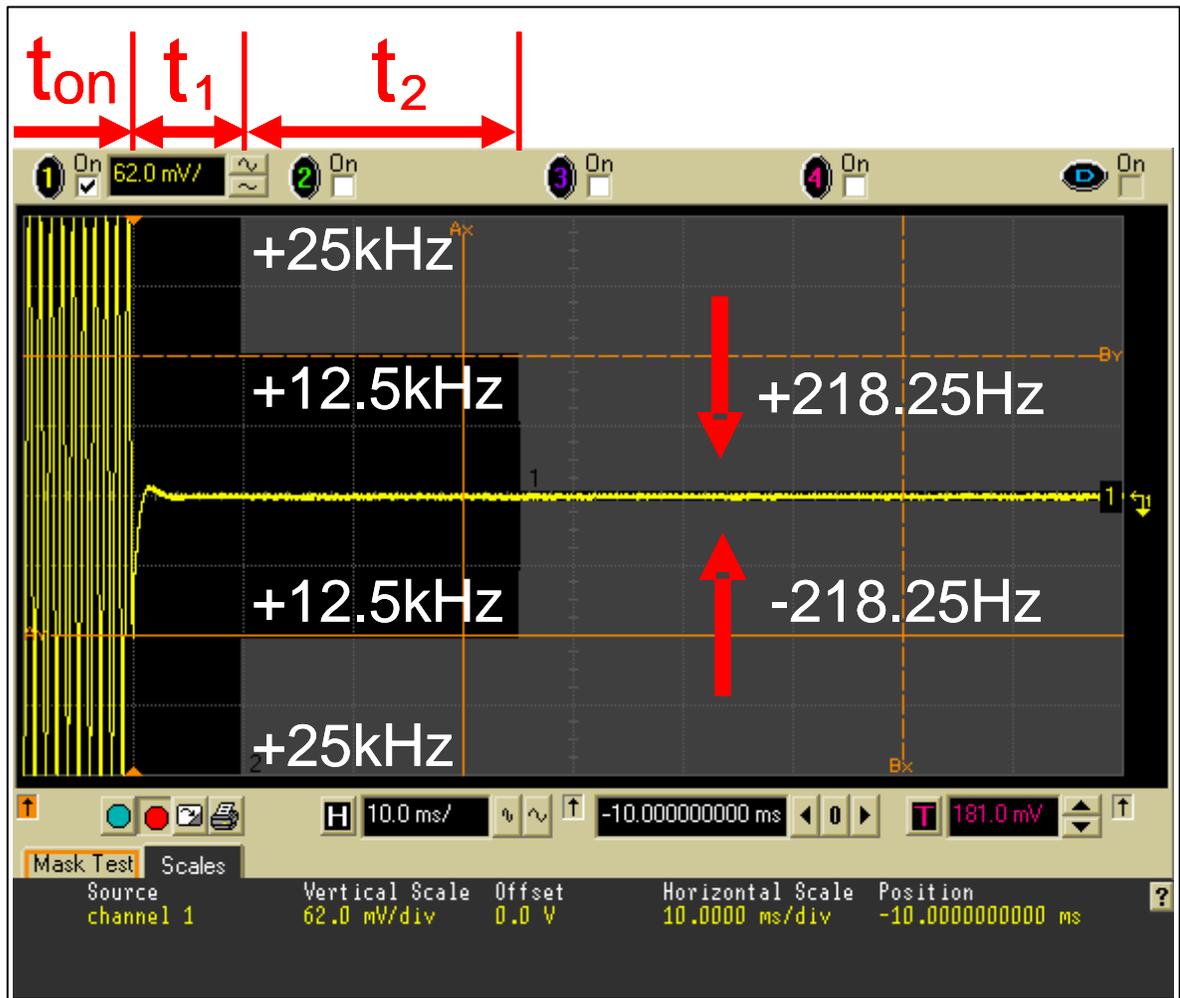


Figure 6I-15: 0.5 ppm, 25.0 kHz Key-Up Attack Time; Freq: 436.5 MHz, 4.8 Watts

Note:

- $t_1 = 10 \text{ ms}$
- $t_2 = 25 \text{ ms}$

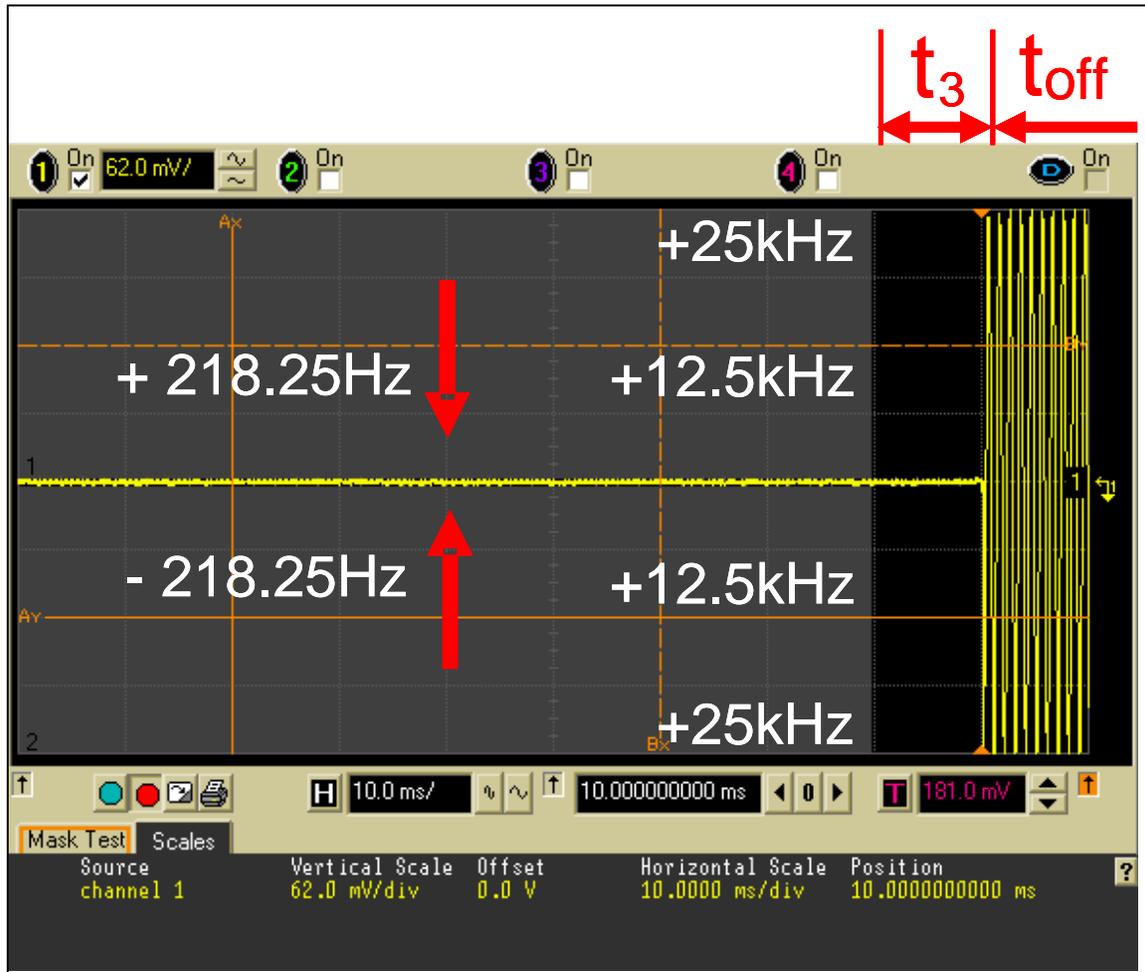


Figure 6I-16: 0.5 ppm, 25.0 kHz De-Key Decay Time; Freq: 436.5 MHz, 4.8 Watts.

Note:

$t_3 = 10 \text{ ms}$