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

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6J- 1 – 450.050 MHz, 12.5 kHz Channel Spacing – Transmitter On (Analog Mode)
6J- 2 – 450.050 MHz, 12.5 kHz Channel Spacing – Transmitter Off (Analog Mode)
6J- 3 – 450.050 MHz, 25 kHz Channel Spacing – Transmitter On (Analog Mode) (Part 74)
6J- 4 – 450.050 MHz, 25 kHz Channel Spacing – Transmitter Off (Analog Mode) (Part 74)

**** Please note that the above data were taken following the procedures and limits outlined in TIA 603-D and RSS 119 during the month of May 2013. See Table 2 in Ex07_test_procedures**

Radio model tested: M22SSS9PW1AN

Important Note: The data in this test report meets or exceeds the technical requirements of FCC Rule Parts 22, 74 and 90.

EXHIBIT 6A**RF Conducted Power Output Data**

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

Frequency 450.05 MHz:

Output RF power	54.00 Watts
DC Voltage	13.60 Volts
DC Current	8.65 Amps

Frequency 450.05 MHz:

Output RF power	0.99 Watts
DC Voltage	13.60 Volts
DC Current	2.07 Amps

Frequency 459.125 MHz (Part 22.561):

Output RF power	53.90 Watts
DC Voltage	13.60 Volts
DC Current	8.28 Amps

Frequency 459.125 MHz (Part 22.561):

Output RF power	0.99 Watts
DC Voltage	13.60 Volts
DC Current	2.02 Amps

Frequency 491.0125 MHz (Part 22.651):

Output RF power	48.00 Watts
DC Voltage	13.60 Volts
DC Current	8.24 Amps

Frequency 491.0125 MHz (Part 22.651):

Output RF power	0.99 Watts
DC Voltage	13.60 Volts
DC Current	1.99 Amps

Frequency 511.9875 MHz:

Output RF power	48.00 Watts
DC Voltage	13.60 Volts
DC Current	8.86 Amps

Frequency 511.9875 MHz:

Output RF power	0.98 Watts
DC Voltage	13.60 Volts
DC Current	2.13 Amps

Frequency 519.9875 MHz:

Output RF power	30.00 Watts
DC Voltage	13.60 Volts
DC Current	6.74 Amps

Frequency 519.9875 MHz:

Output RF power	0.99 Watts
DC Voltage	13.60 Volts
DC Current	2.12 Amps

EXHIBIT 6B

Transmit Audio Response

Audio Frequency Response
(Freq: 450.050 MHz, ChSp: 12.5 kHz)

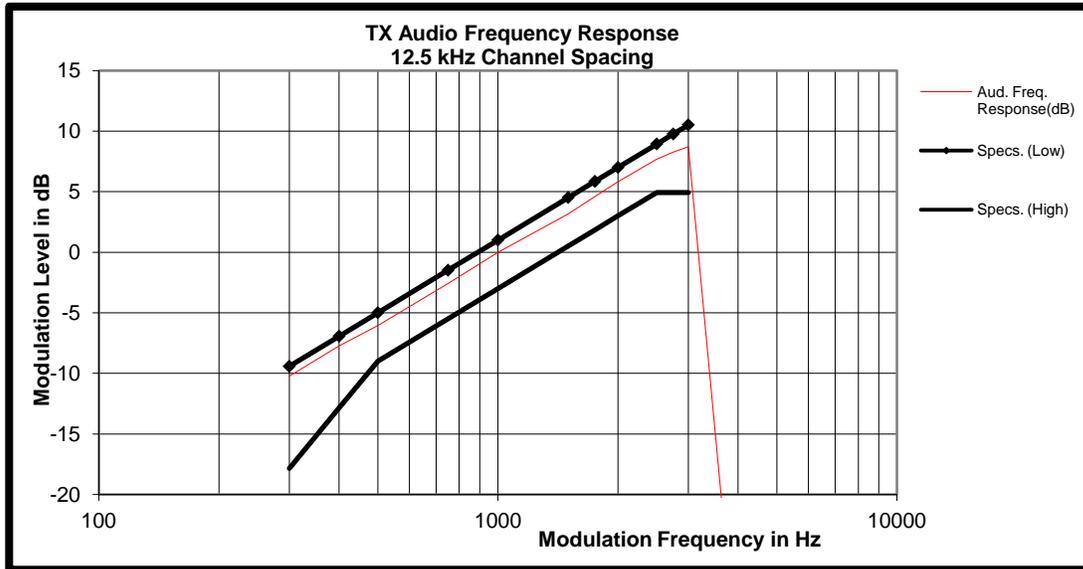


Figure 6B-1: 12.5 kHz Channel Spacing, 450.050 MHz

Audio Frequency Response
(Freq: 450.0250 MHz, ChSp: 25 kHz)

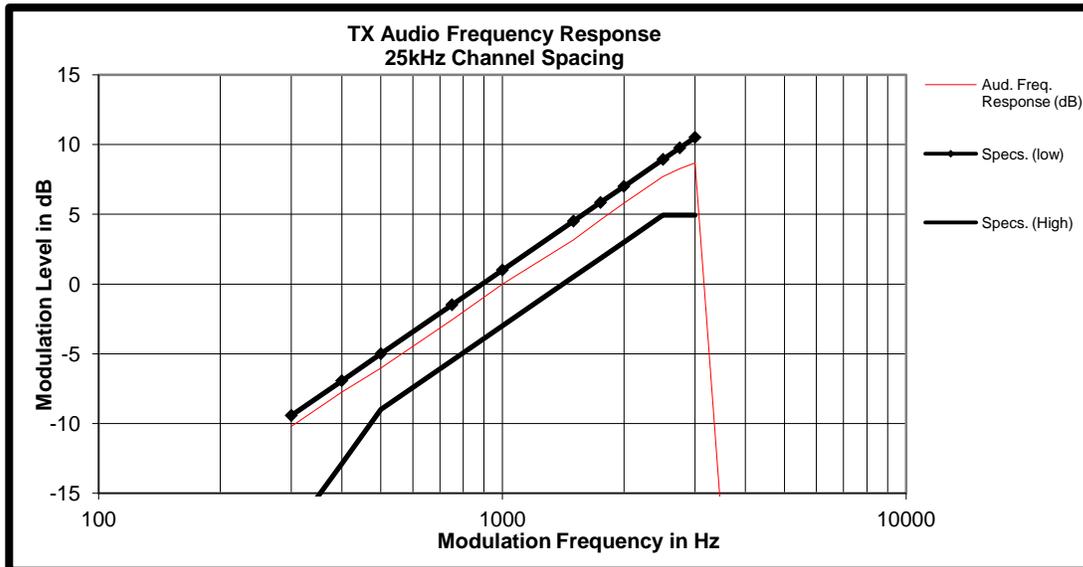


Figure 6B-2: 25 kHz Channel Spacing, 450.050 MHz (Part 74)

EXHIBIT 6C

Audio Low Pass Filter Response

Transmit Audio Low Pass Filter Response
(Freq: 450.050 MHz, ChSp: 12.5 kHz)

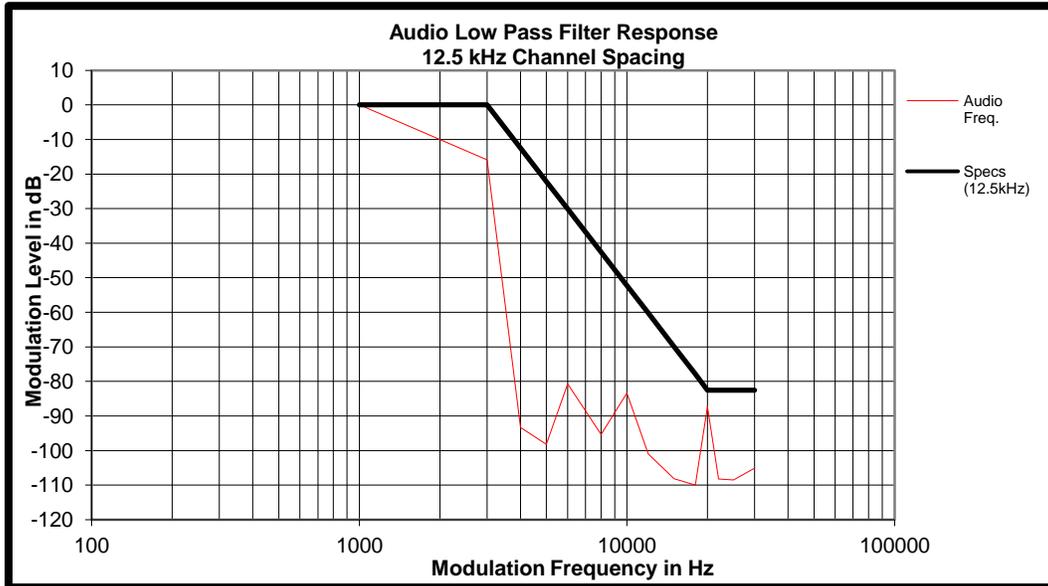


Figure 6C-1: 12.5 kHz Channel Spacing, 450.050 MHz

Transmit Audio Low Pass Filter Response
(Freq: 450.050 MHz, ChSp: 25 kHz)

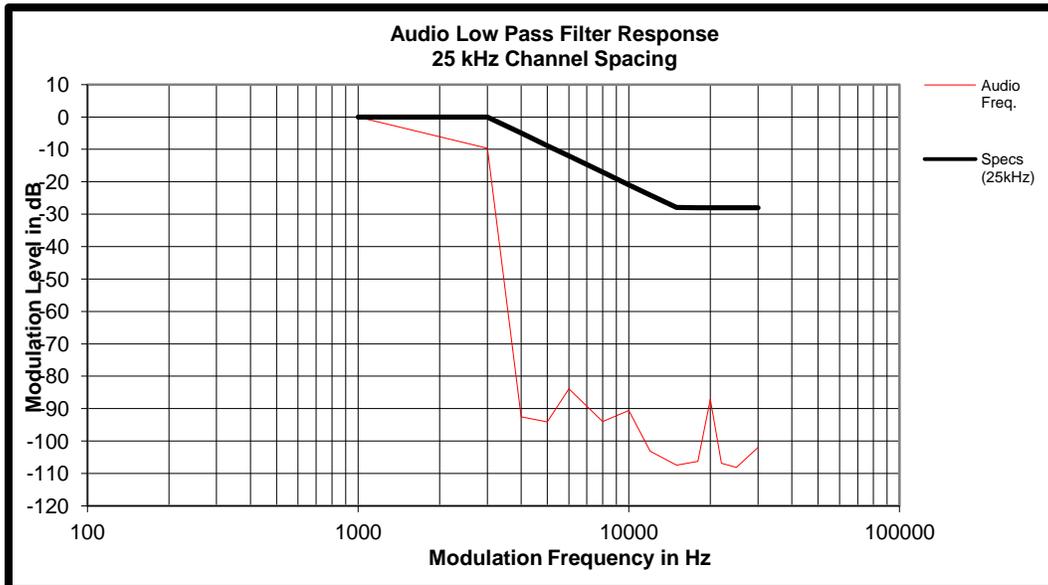


Figure 6C-2: 25 kHz Channel Spacing, 450.050 MHz (Part 74)

EXHIBIT 6D

Modulation Limiting

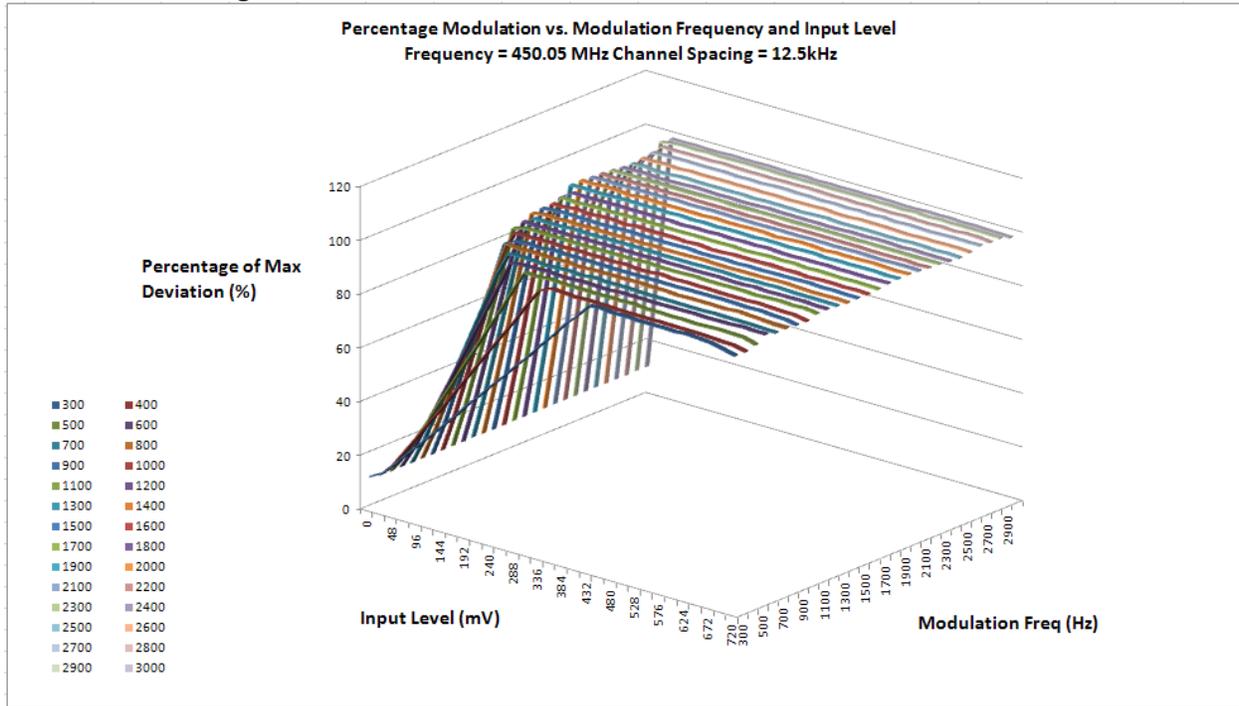


Figure 6D-1: The Percentage of Max. Deviation on the “Z” axis is referenced to 2.5 kHz for 12.5 kHz bandwidth

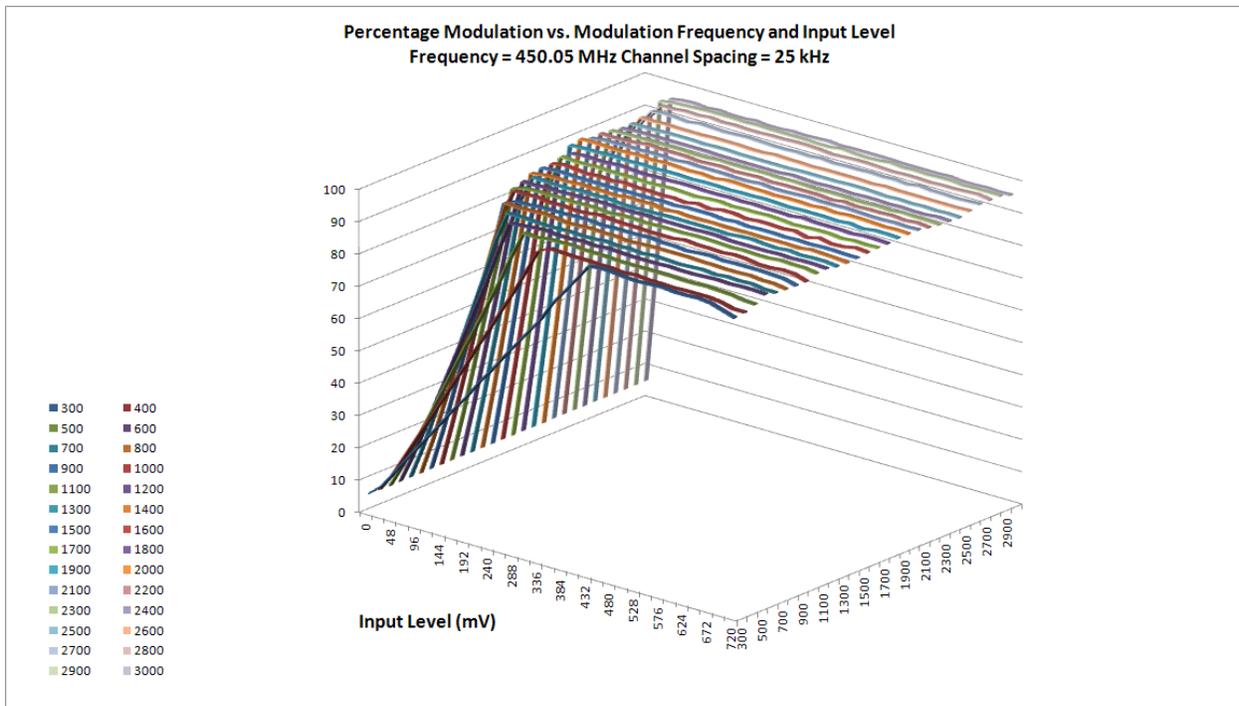


Figure 6D-2: The Percentage of Max. Deviation on the “Z” axis is referenced to 5 kHz for 25 kHz bandwidth (Part 74)

EXHIBIT 6E**Occupied Bandwidth Data**

Carson's Rule for FM modulation is utilized to compute the bandwidth shown in the FCC emission designator. Carson's Rule is: $BW = 2 * (M + D)$ where: $BW = \text{Bandwidth}$

M= Maximum modulating frequency
D = Deviation

EXHIBIT 6E-1

Standard Audio Modulation (12.5 kHz Channelization, Analog Voice):

Emission Designator 11K0F3E

In this case, the maximum modulating frequency is 3.0 kHz with a 2.5 kHz deviation.

$BW = 2(M+D) = 2*(3.0 \text{ kHz} + 2.5 \text{ kHz}) = 11 \text{ kHz} \Rightarrow 11K0$
F3E portion of the designator indicates voice.

Therefore, the entire designator for 12.5 kHz channelization analog voice is 11K0F3E.

EXHIBIT 6E-2

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-3

Digital (12.5 kHz Channelization, APCO Digital Data):

Emission Designator 8K10F1D

The 99% energy rule (title 47CFR 2.989) was used for digital mode and is more accurate than Carson's rule. It basically states that 99% of the modulation energy falls within X kHz, in this case, 8.10 kHz. Measurements were performed in accordance with TIA/EIA TSB102.CAAB Section 2.2.5.2. The emission mask was obtained from 47CFR 90.210(d).

F1D portion of the designator indicates digital data.

Therefore, the entire designator for 12.5 kHz channelization digital data is 8K10F1D.

EXHIBIT 6E-4

Digital (12.5 kHz Channelization, APCO Digital Voice):

Emission Designator 8K10F1E

The 99% energy rule (title 47CFR 2.989) was used for digital mode and is more accurate than Carson's rule. It basically states that 99% of the modulation energy falls within X kHz, in this case, 8.10 kHz. Measurements were performed in accordance with TIA/EIA TSB102.CAAB Section 2.2.5.2. The emission mask was obtained from 47CFR 90.210(d).

F1E portion of the designator indicates digital voice.

Therefore, the entire designator for 12.5 kHz channelization digital voice is 8K10F1E.

EXHIBIT 6E-5

Digital (12.5 kHz Channelization, Phase II (TDMA)):

Emission Designator 8K10F1W

The 99% energy rule (title 47CFR 2.989) was used for digital mode and is more accurate than Carson's rule. It basically states that 99% of the modulation energy falls within X kHz, in this case, 8.10 kHz. Measurements were performed in accordance with TIA/EIA TSB102.CAAB Section 2.2.5.2. The emission mask was obtained from 47CFR 90.210(d).

F1W portion of the designator indicates digital TDMA.

Therefore, the entire designator for 12.5 kHz channelization digital TDMA is 8K10F1W.

EXHIBIT 6E-6

Securenet Mode (20.0 kHz Channelization, Analog Voice with Encryption):

Emission Designator 20K0F1E

In this case, the maximum modulating frequency is 6.0 kHz with a 4.0 kHz deviation.

$$BW = 2(M+D) = 2*(6.0 \text{ kHz} + 4.0 \text{ kHz}) = 20 \text{ kHz} \implies 20K0$$

F1E portion of the designator indicates digital voice.

Therefore, the entire designator for 20.0 kHz channelization securenet mode (analog voice with encryption) is 20K0F1E.

Note: The 90.203(j) efficiency standard for "F1D" emission is met by sending 2 bits at a time, at a rate of 4800 symbols/second. This yields 9600 bits/second, which is achieved using the modulation technique described in the note below. Modulation results from one of the digital 4-level standard symbol patterns applied to the modulation at a rate of 9600 bits/second. The modulation technique is 4-level FM. The information bits are commonly represented by a symbol that corresponds to one of 4 levels of FM deviation according to the following table.

<u>Information Bits</u>	<u>Symbol</u>	<u>C4FM Deviation</u>
01	+3	+1.8 kHz
00	+1	+0.6 kHz
10	-1	-0.6 kHz
11	-3	-1.8 kHz

For example, an 8-bit binary pattern of 0010 1101 would be sent as symbols +1, -1, -3, +3, which would cause a modulation signal (Frequency-Shift-Keyed) of +1.8 kHz, -600 Hz, -1.8 kHz, and +1.8 kHz. This results in 9600 bits/second of information being sent on a 12.5 kHz channel, which is the equivalent of 4800 bits/second per 6.25 kHz.

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Note: The "F1D", "F1E" and "F1W" signal parameters are described as follows: The modulation is 4-level FSK with +/-600 Hz and +/-1.8 kHz shifting (+/-600 Hz and +/-1.8 kHz are the 4 distinct levels of signals). The digital voice test pattern is created by a 2500 Hz sine wave modulated at a level that is 16 dB above that required to produce 50% deviation at the radio output. The digital data test signal is generated by an internally generated pseudo random test pattern based on ITU-T 0.153 (formally CCITT V.52).

EXHIBIT 6E-7

Digital Modulation (20 kHz Channelization, APCO Digital 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.

EXHIBIT 6E
Occupied Bandwidth Data

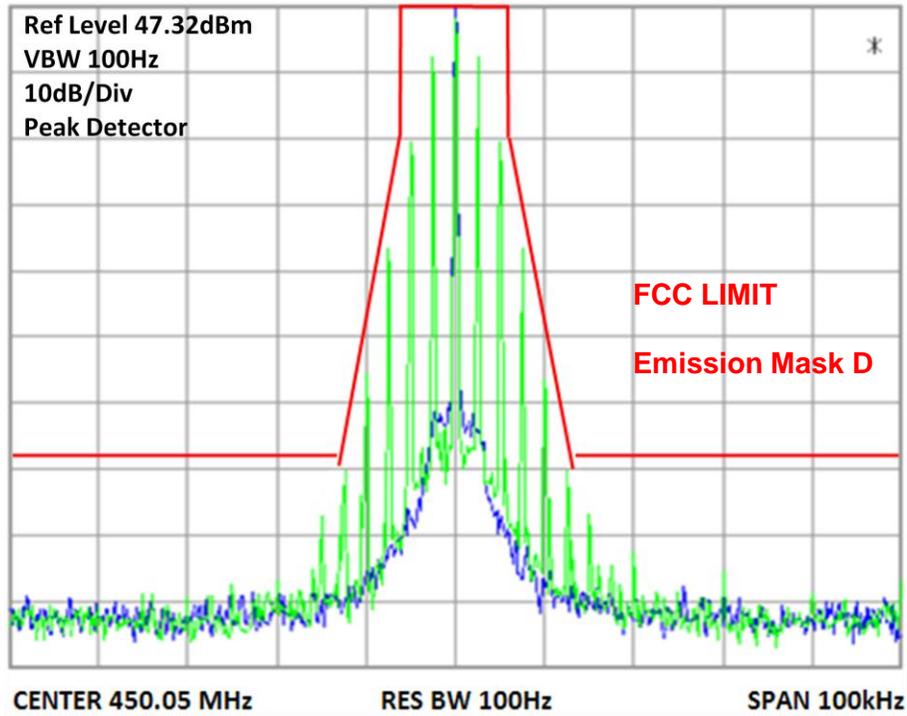


Figure 6E-1: 12.5 kHz Channel Spacing, 450.050 MHz, Analog Voice, Mask D 11K0F3E

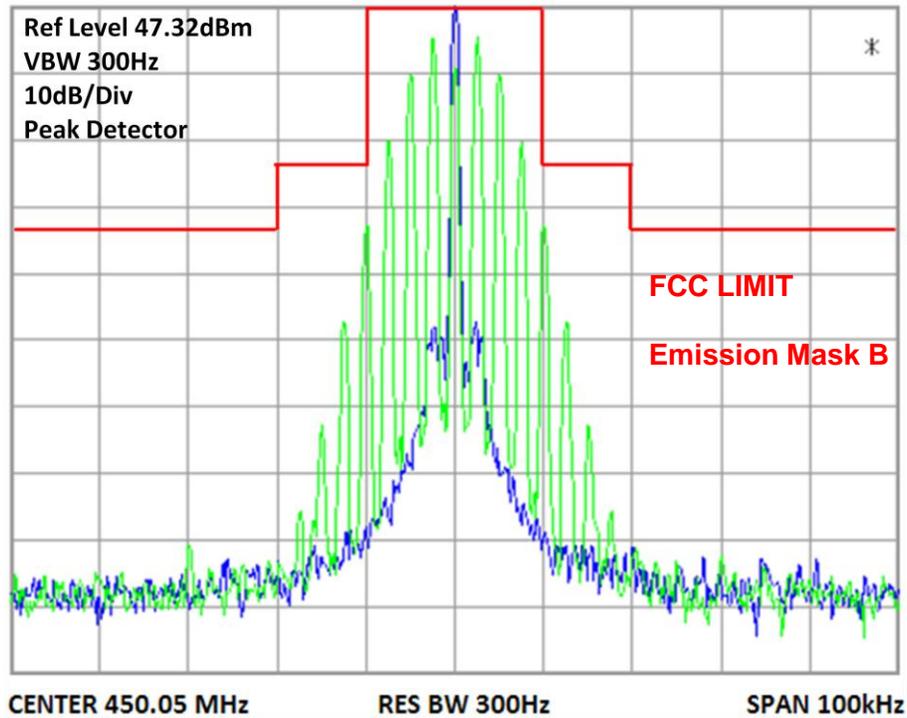


Figure 6E-2: 25.0 kHz Channel Spacing, 450.050 MHz, Analog Voice, Mask B 16K0F3E (Part 74)

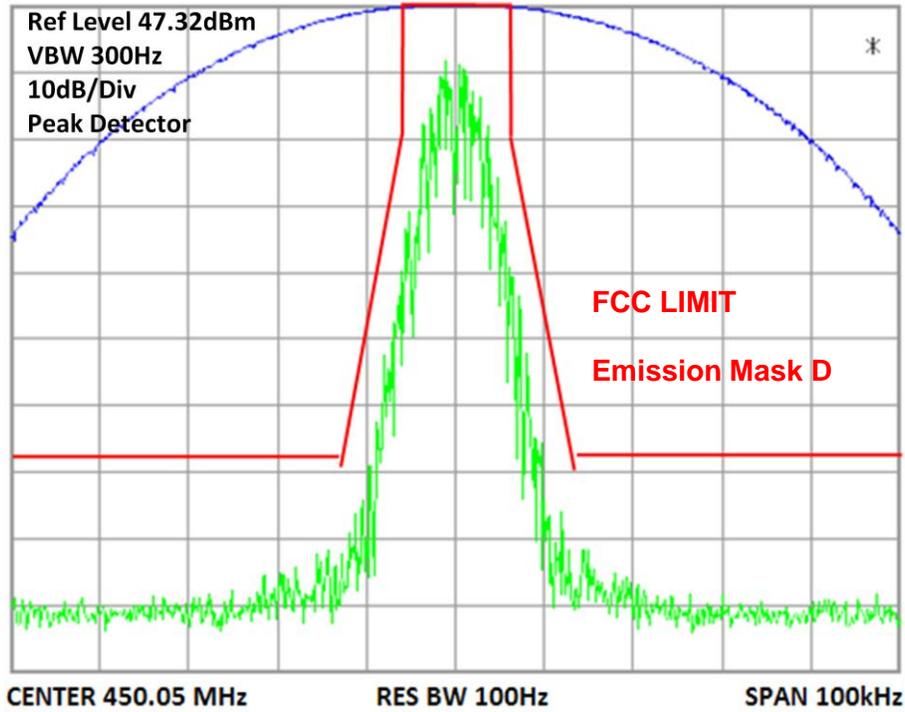


Figure 6E-3: 12.5 kHz Channel Spacing, 450.050 MHz, APCO Digital Data, Mask D 8K10F1D

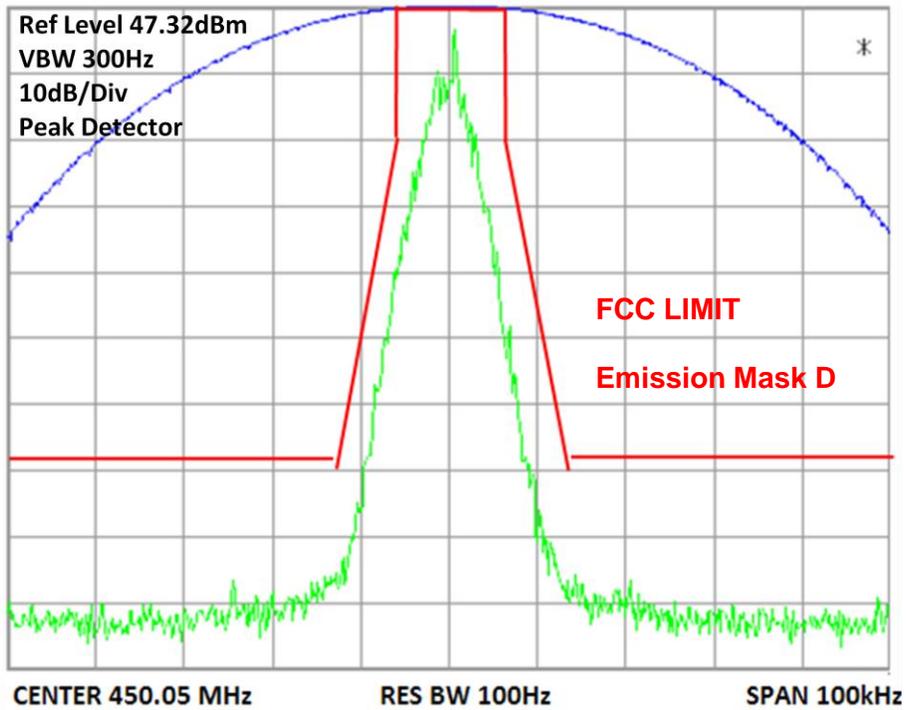


Figure 6E-4: 12.5 kHz Channel Spacing, 450.050 MHz, APCO Digital Voice, Mask D 8K10F1E

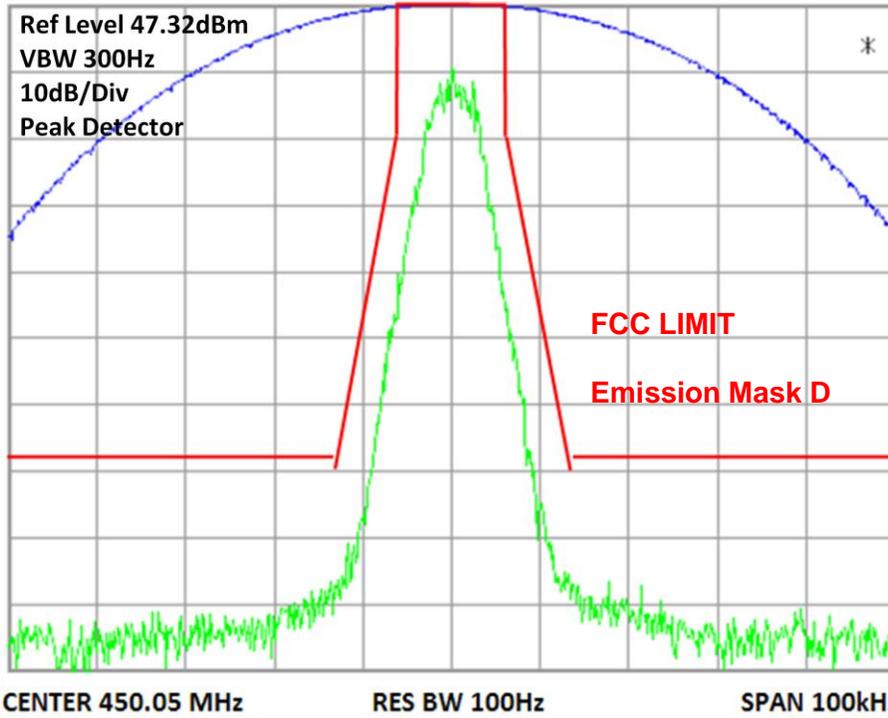


Figure 6E-5: 12.5 kHz Channel Spacing, 450.050 MHz, Phase II (TDMA), Mask D 8K10F1W

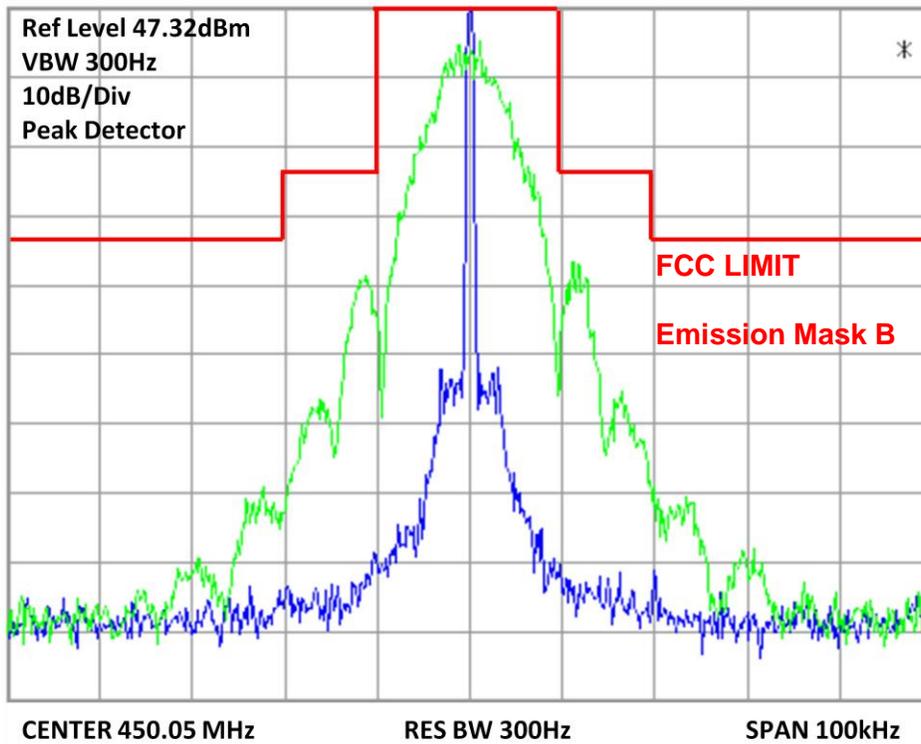


Figure 6E-6: 20 kHz Channel Spacing, 450.050 MHz, Analog Voice Encryption, Mask B 20K0F1E (Part 74)

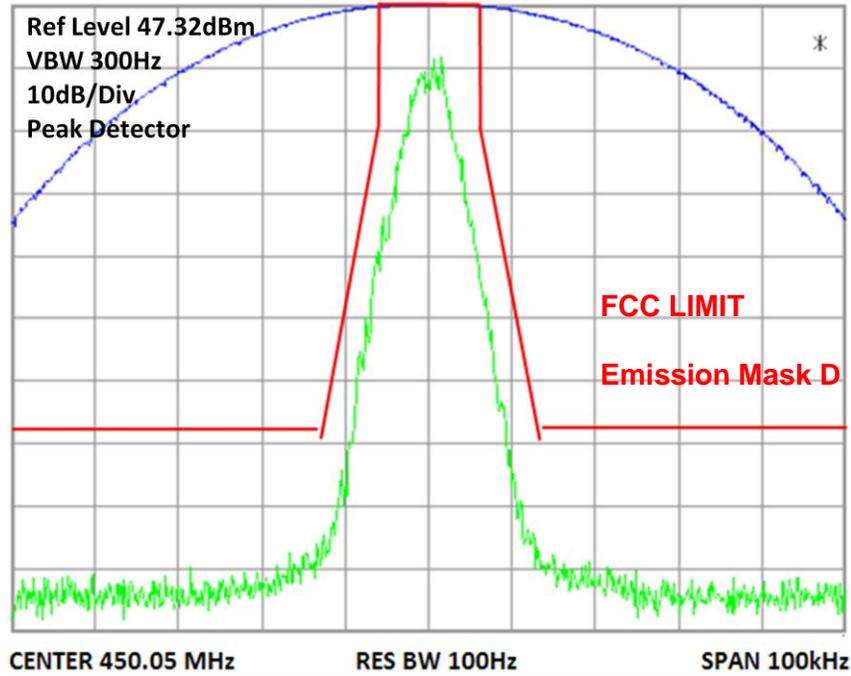
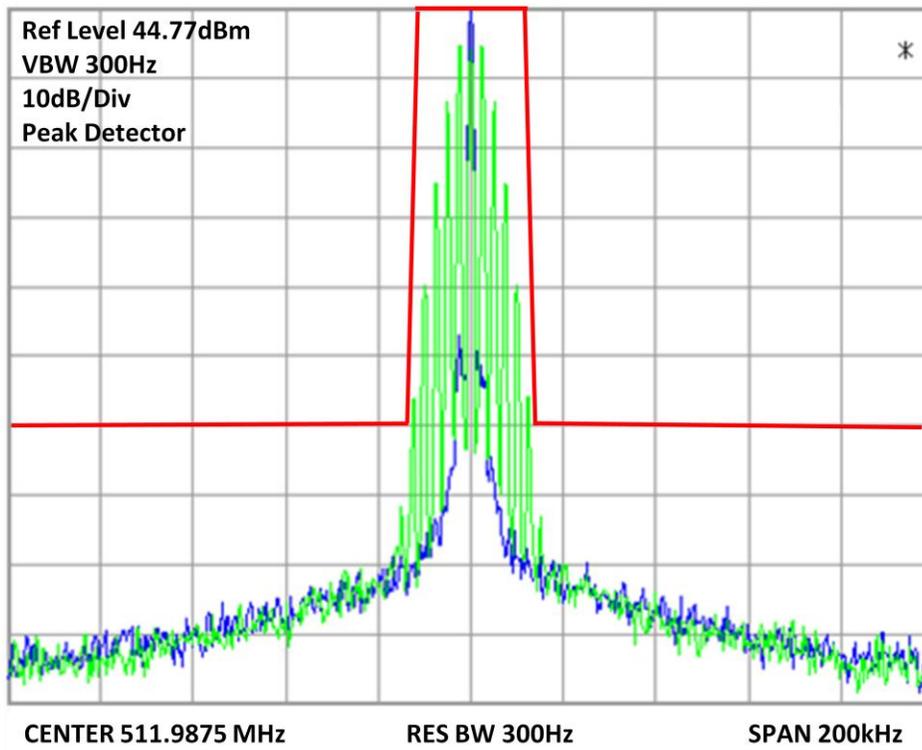


Figure 6E-7: 12.5 kHz Channel Spacing, 450.050 MHz, APCO Digital Voice Encryption, Mask D 8K10F1E



Res BW	Max amplitude
30kHz	-76dBc

Figure 6E-8: 20 kHz Channel Spacing, 511.9875 MHz, Analog Voice 20 kHz (Part 22)

* Note: Compliance to section 22.359 (b), for frequency below and above ± 70 kHz, peak measurements are corrected by 20 dB to account for resolution bandwidth of 30 kHz.

EXHIBIT 6F
Conducted Spurious Emissions

Note: Red lines on graphs correspond to the FCC limit of -20 dBm for 12.5 kHz channel spacing and -13 dBm for 25 kHz channel spacing.

ANALOG MODE

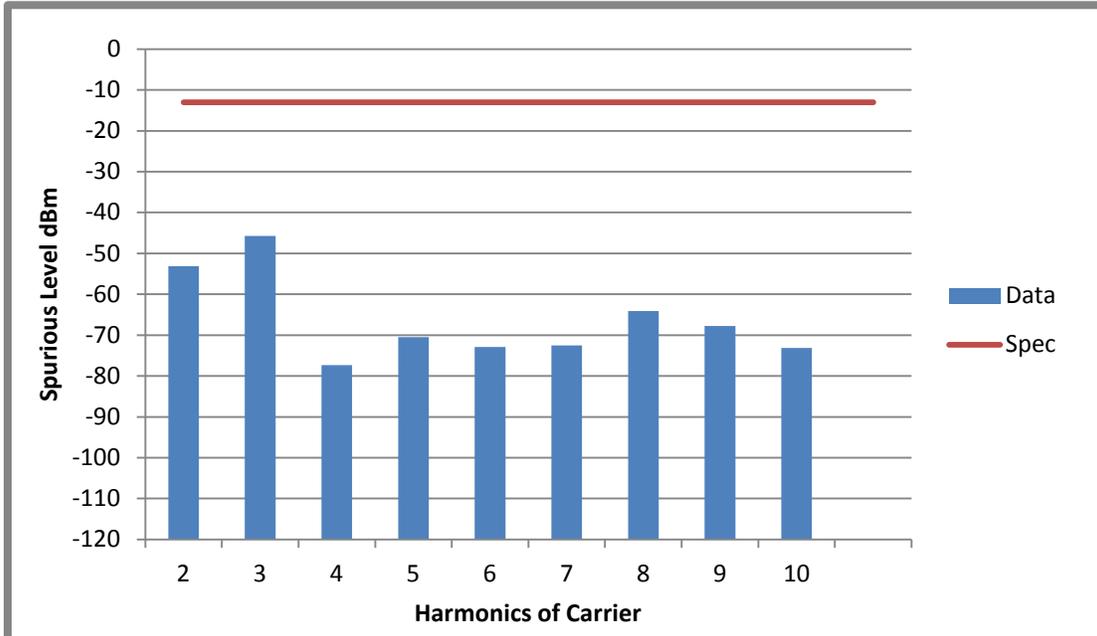


Figure 6F-1: 54W, Harmonic of Carrier 450.05 MHz, 25 kHz Channel Spacing (Part 74)

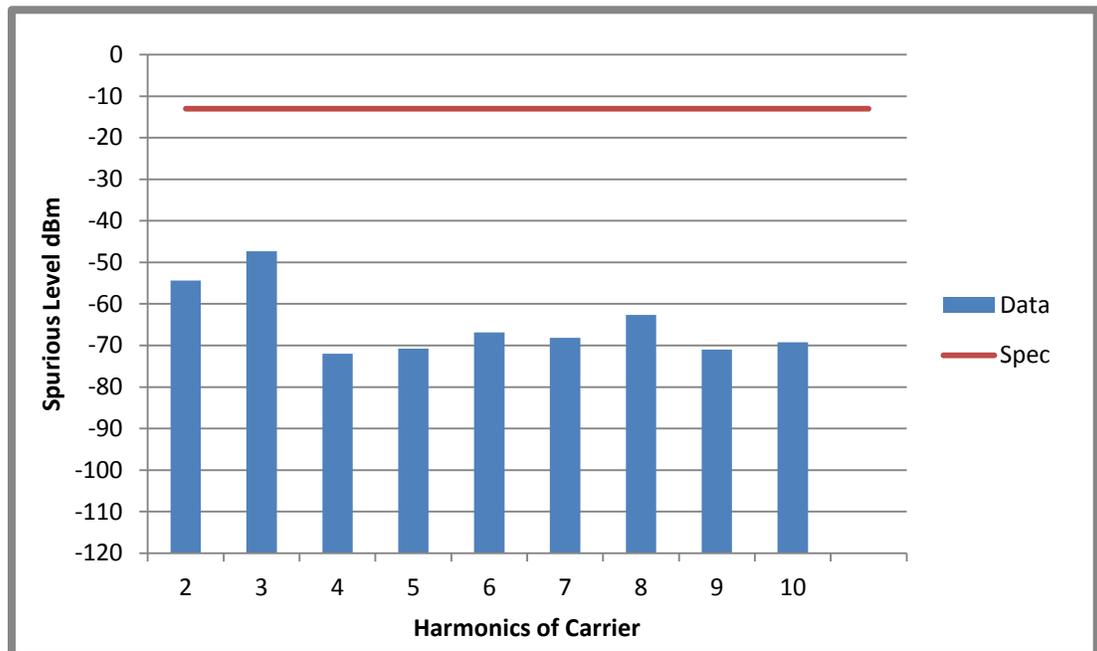


Figure 6F- 2: 54W, Harmonic of Carrier 459.125 MHz, 25 kHz Channel Spacing (Part 22)

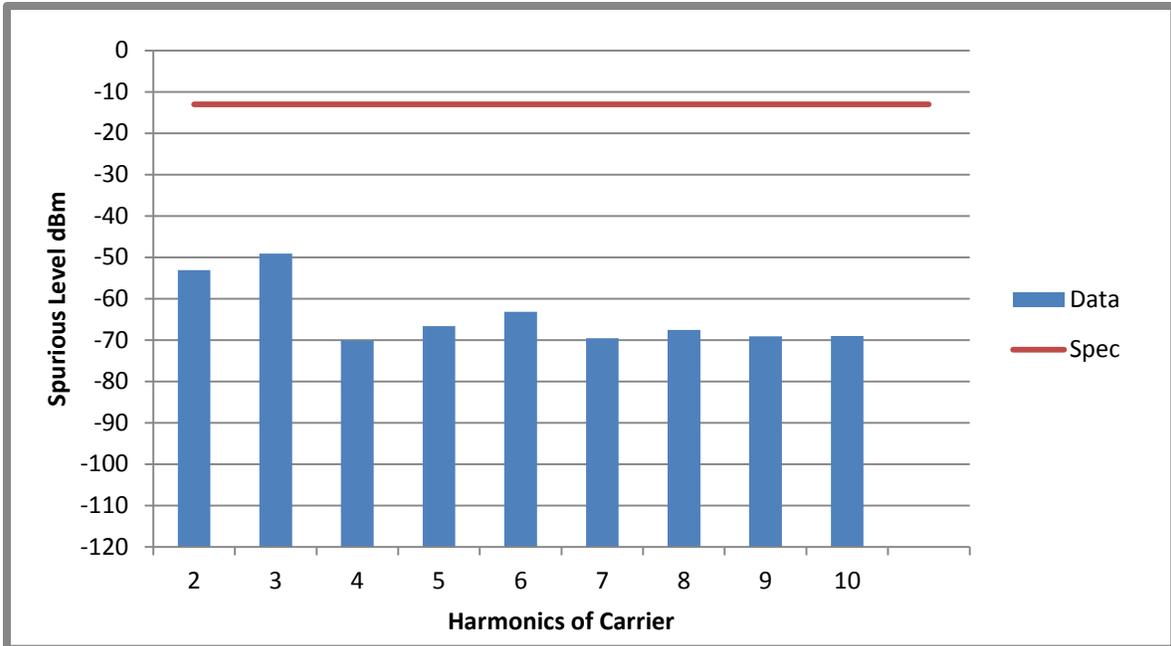


Figure 6F- 3: 48W, Harmonic of Carrier 511.9875 MHz, 25 kHz Channel Spacing (Part 22)

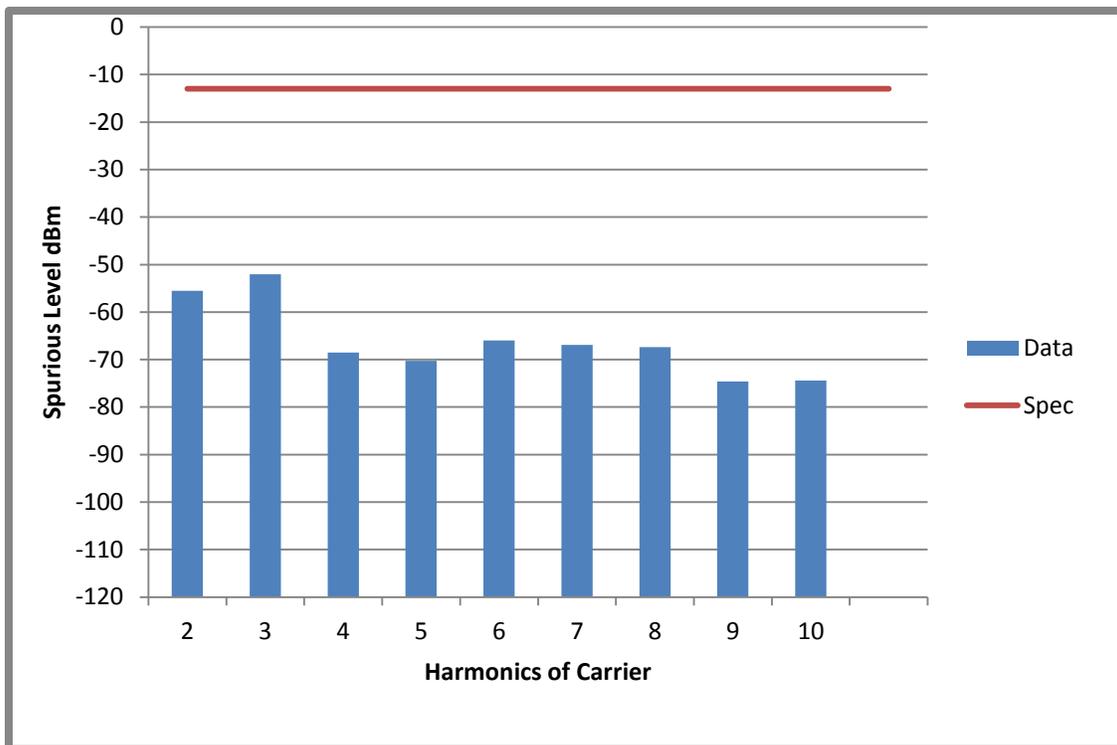


Figure 6F- 4: 30W, Harmonic of Carrier 519.9875 MHz, 25 kHz Channel Spacing (Federal)

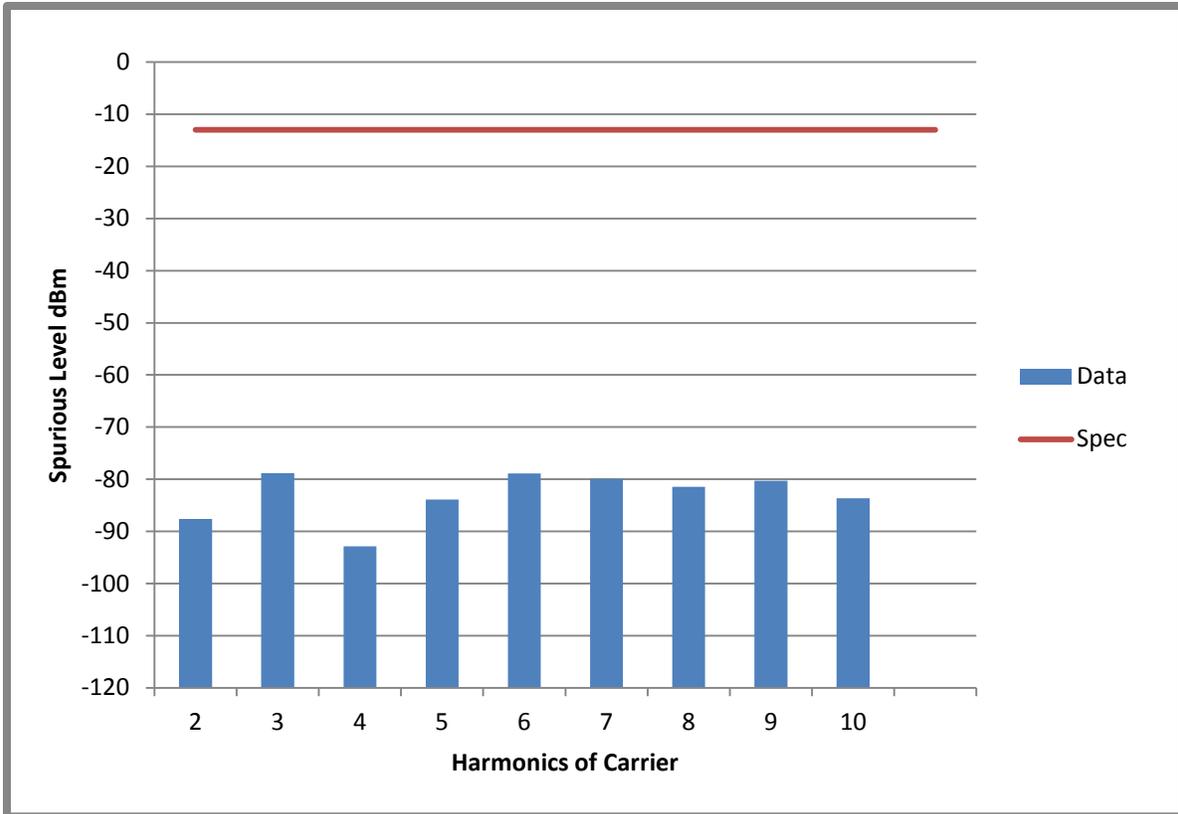


Figure 6F- 5: 48W, Harmonic of Carrier 511.9875 MHz, 20 kHz Channel Spacing (Part 22)

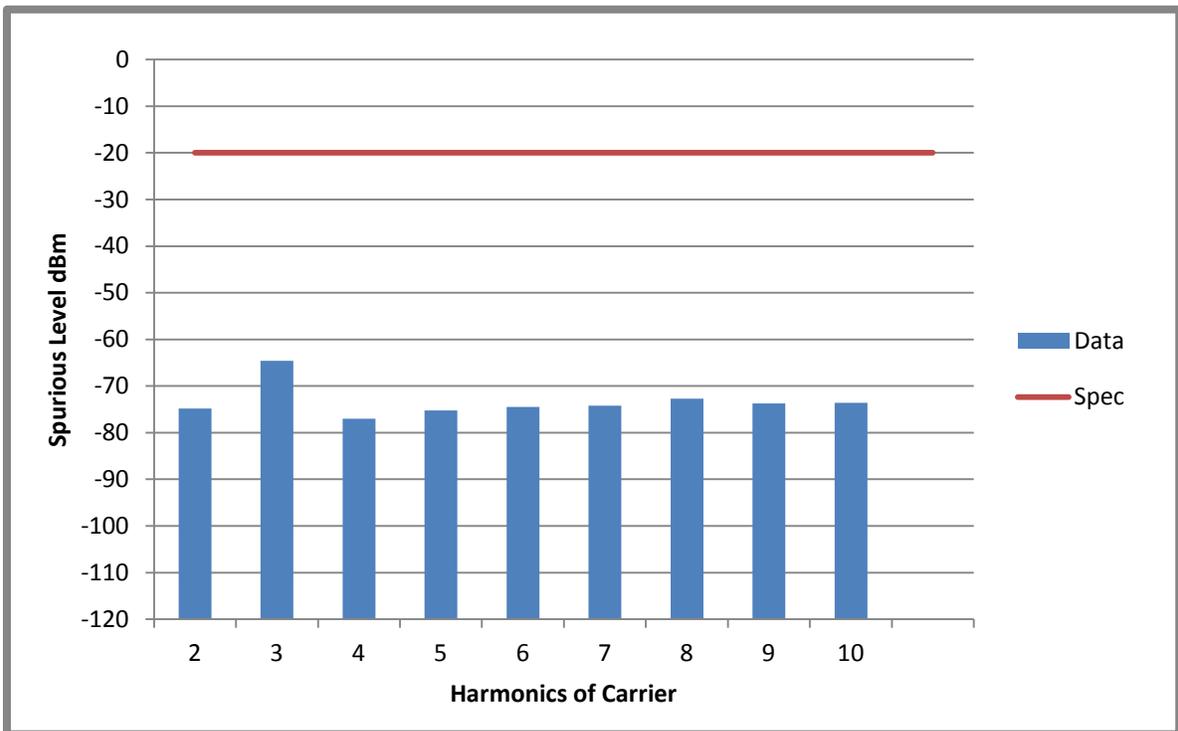


Figure 6F-6: 54W, Harmonic of Carrier 450.05 MHz, 12.5 kHz Channel Spacing

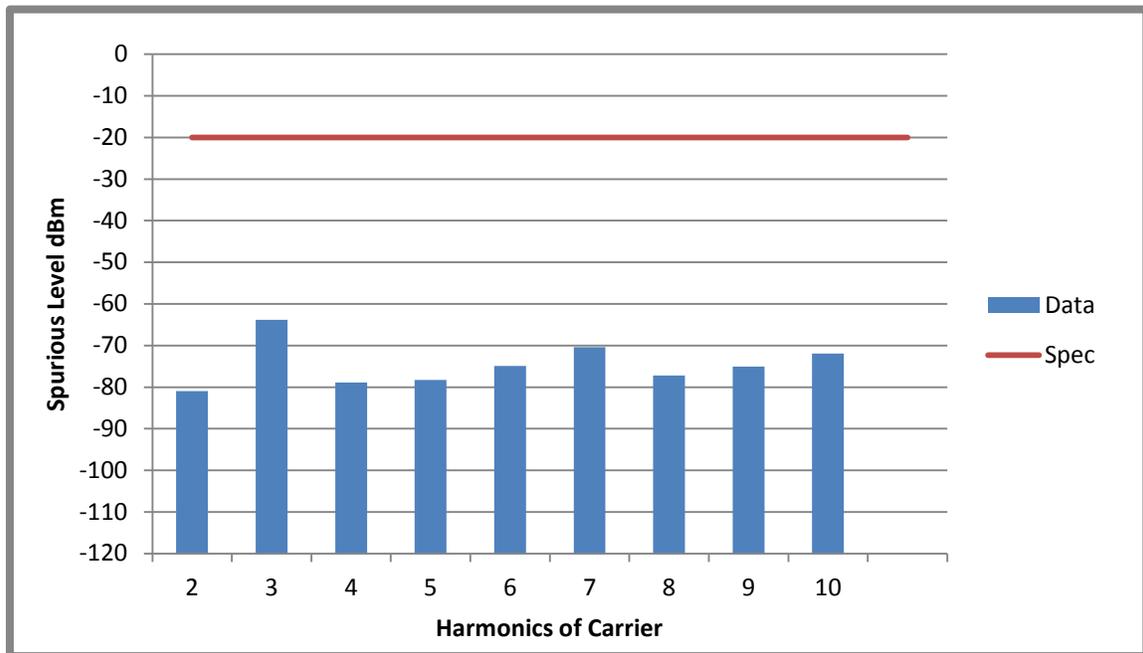


Figure 6F- 7: 54W, Harmonic of Carrier 459.125 MHz, 12.5 kHz Channel Spacing

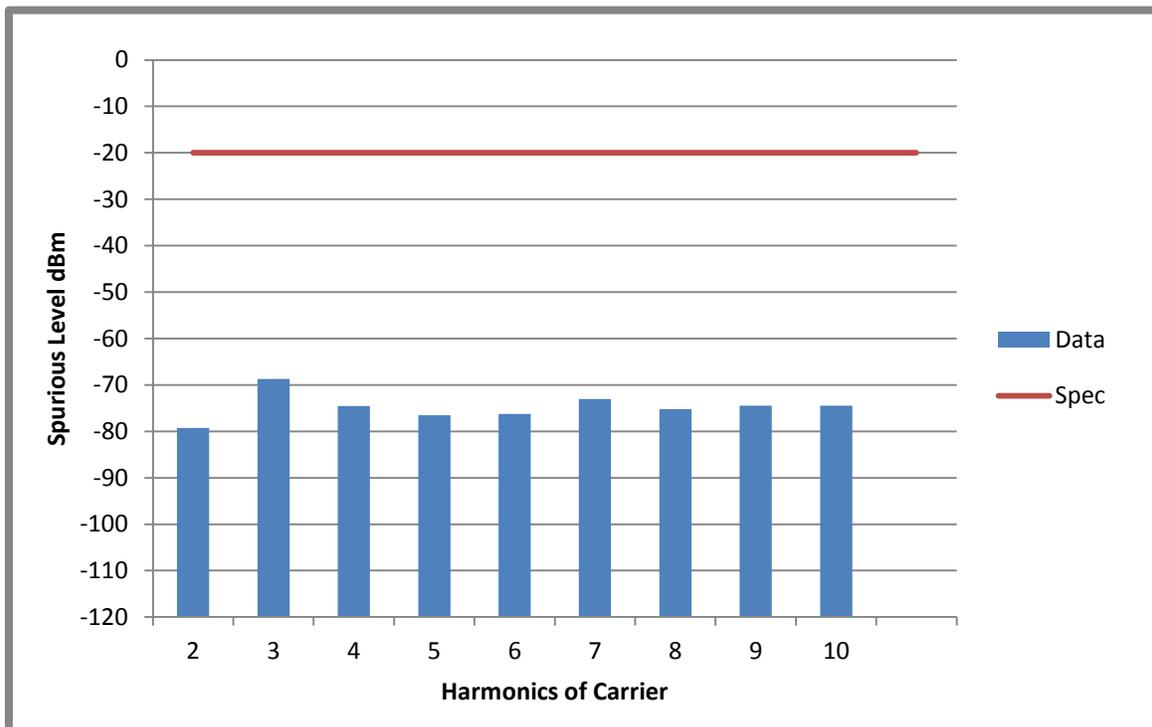


Figure 6F- 8: 48W, Harmonic of Carrier 511.9875 MHz, 12.5 kHz Channel Spacing

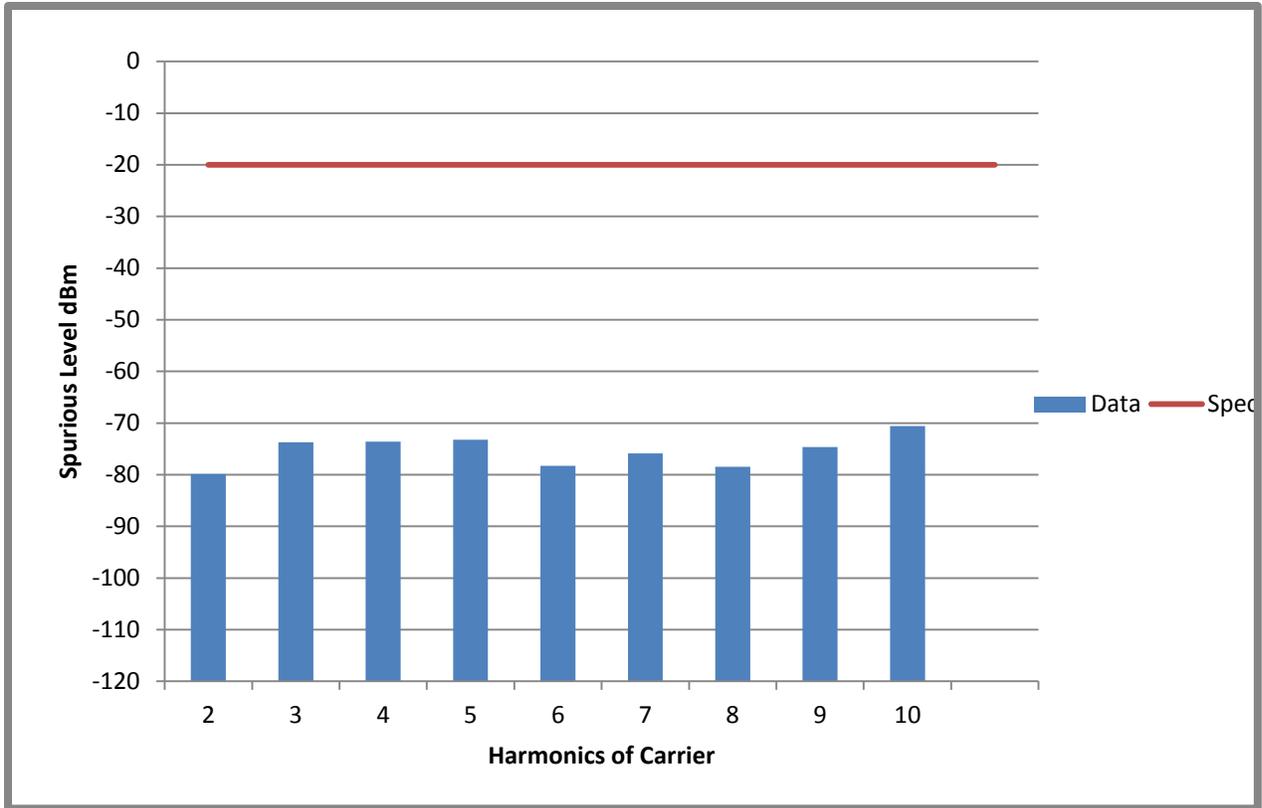


Figure 6F- 9: 30W, Harmonic of Carrier 519.9875 MHz, 12.5 kHz Channel Spacing (Federal)

APCO DIGITAL MODE

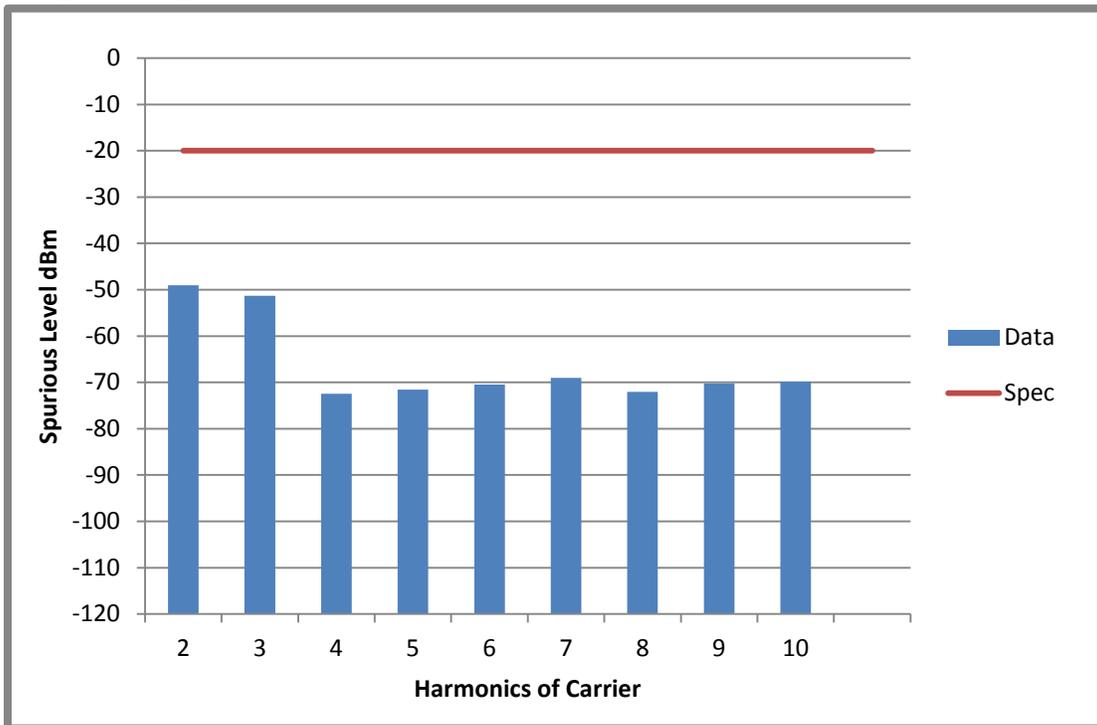


Figure 6F-10: 54W, Harmonic of Carrier 450.05 MHz, 12.5 kHz Channel Spacing

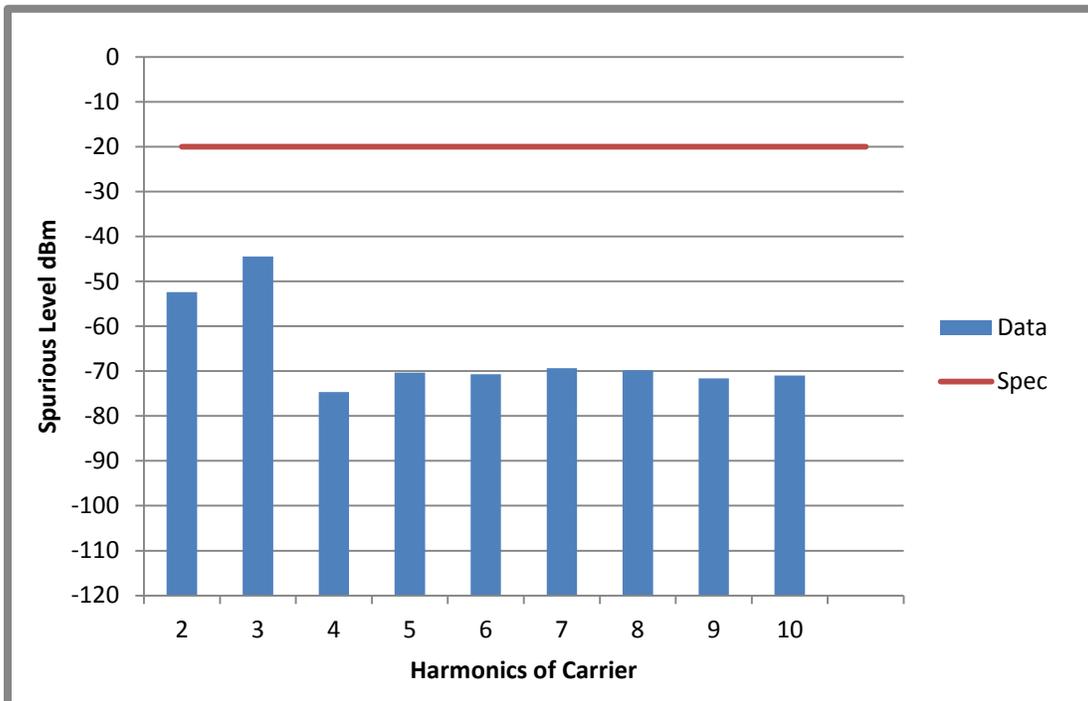


Figure 6F- 11: 54W, Harmonic of Carrier 459.125 MHz, 12.5 kHz Channel Spacing

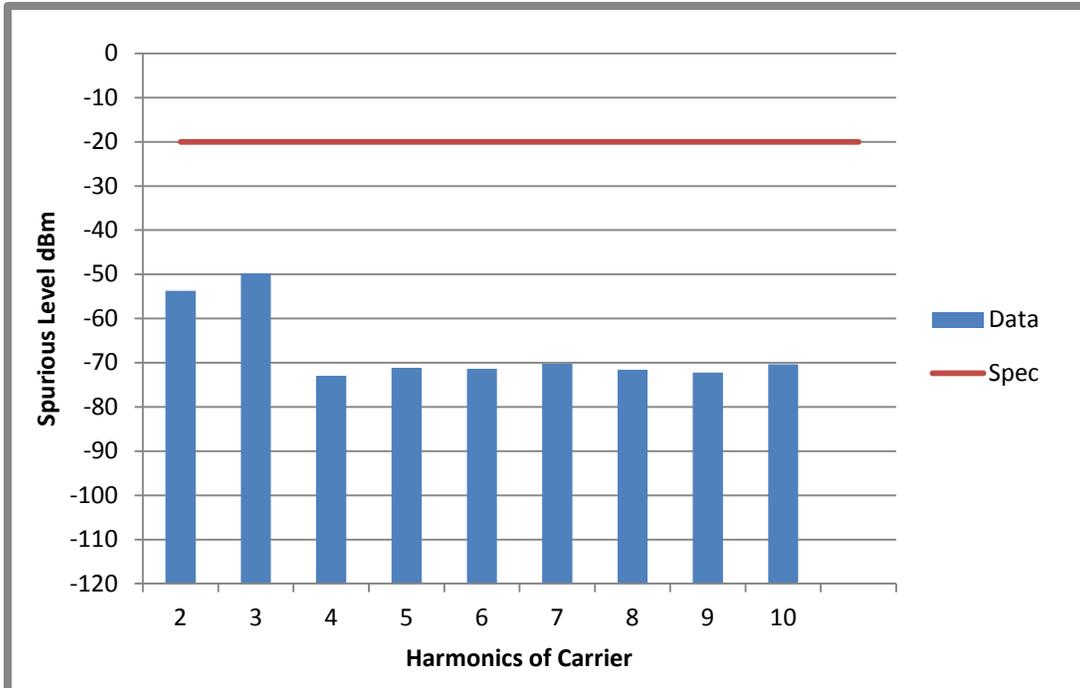


Figure 6F- 12: 48W, Harmonic of Carrier 511.9875 MHz, 12.5 kHz Channel Spacing

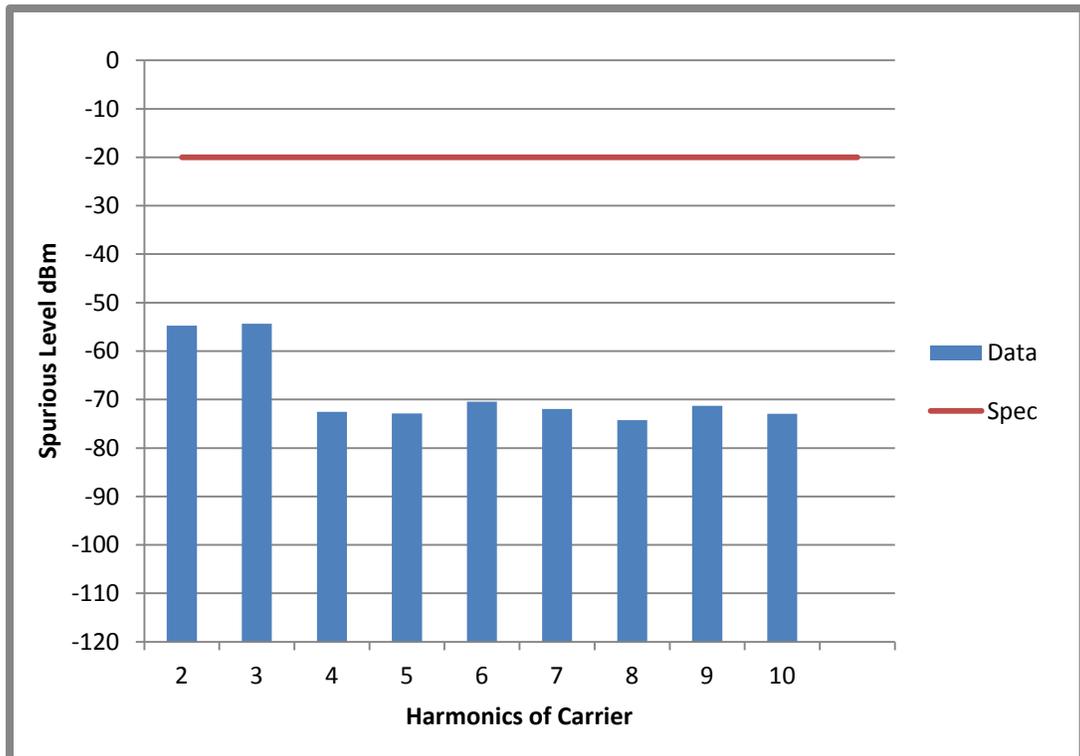


Figure 6F- 13: 30W, Harmonic of Carrier 519.9875 MHz, 12.5 kHz Channel Spacing

Phase II (TDMA)

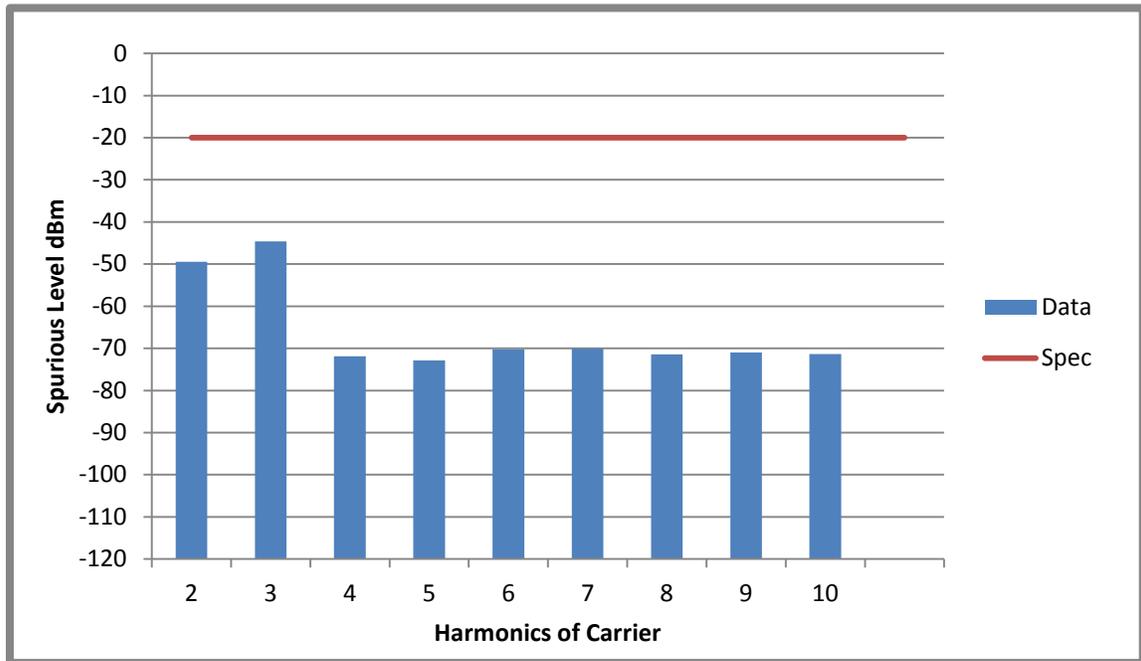


Figure 6F-14: 54W, Harmonic of Carrier 450.05 MHz, 12.5 kHz Channel Spacing

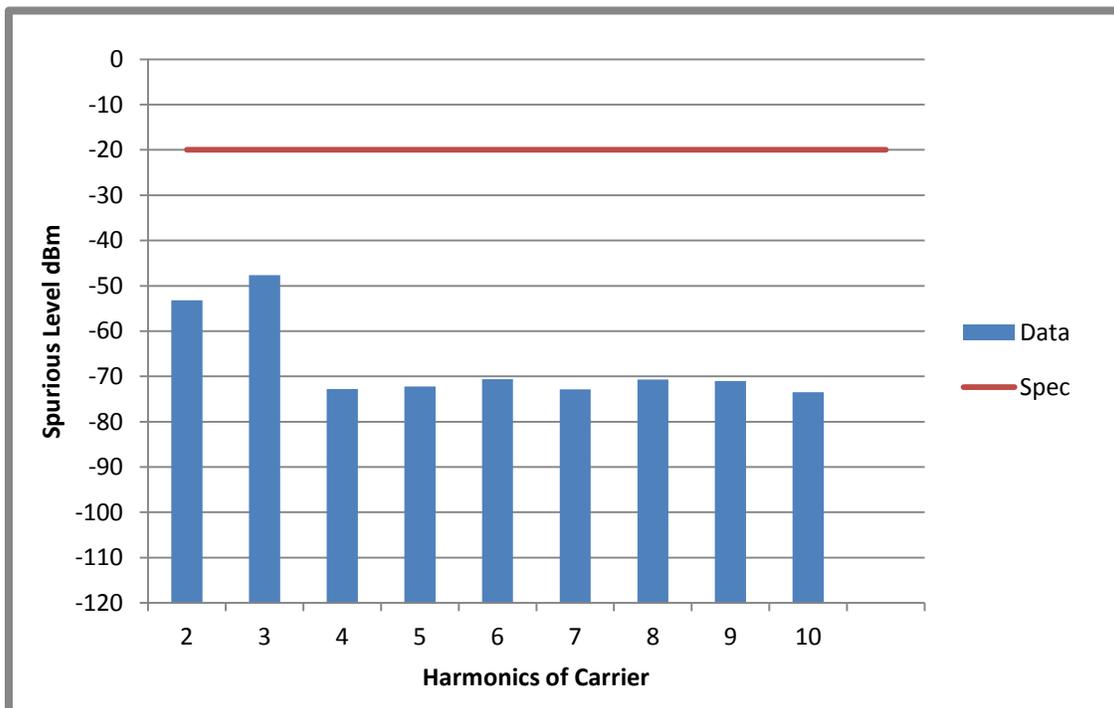


Figure 6F- 15: 54W, Harmonic of Carrier 459.125 MHz, 12.5 kHz Channel Spacing

EXHIBIT 6G

Radiated Spurious Emissions

ANALOG MODE

450.05 MHz

Channel Spacing 25kHz | S/N 471TPF0791

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
900.1000	-13	*	*
1350.1500	-13	*	*
1800.2000	-13	*	*
2250.2500	-13	*	*
2700.3000	-13	*	*
3150.3500	-13	*	*
3600.4000	-13	*	*
4050.4500	-13	*	*
4500.5000	-13	*	*

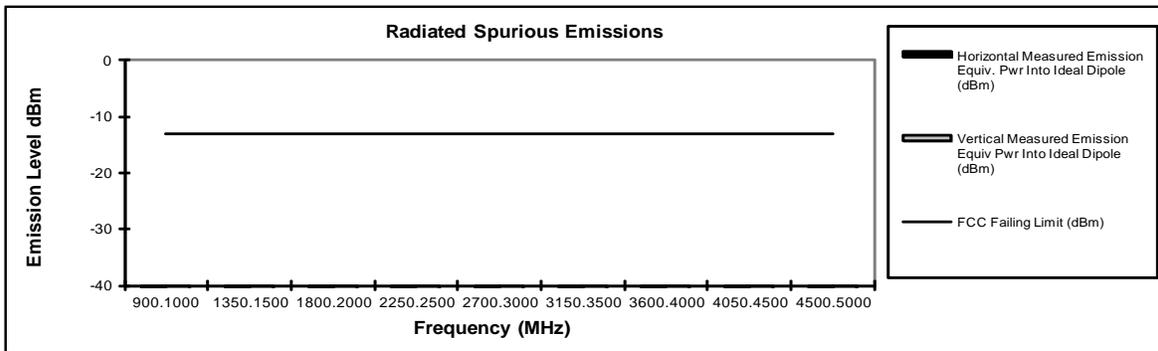


Figure 6G-1: 54W, 450.05 MHz, 25 kHz Channel Spacing (Part 74)

459.125 MHz

Channel Spacing 25kHz | S/N 471TPF0791

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
918.2500	-13	*	*
1377.3750	-13	*	*
1836.5000	-13	*	*
2295.6250	-13	*	*
2754.7500	-13	*	*
3213.8750	-13	*	*
3673.0000	-13	*	*
4132.1250	-13	*	*
4591.2500	-13	*	*

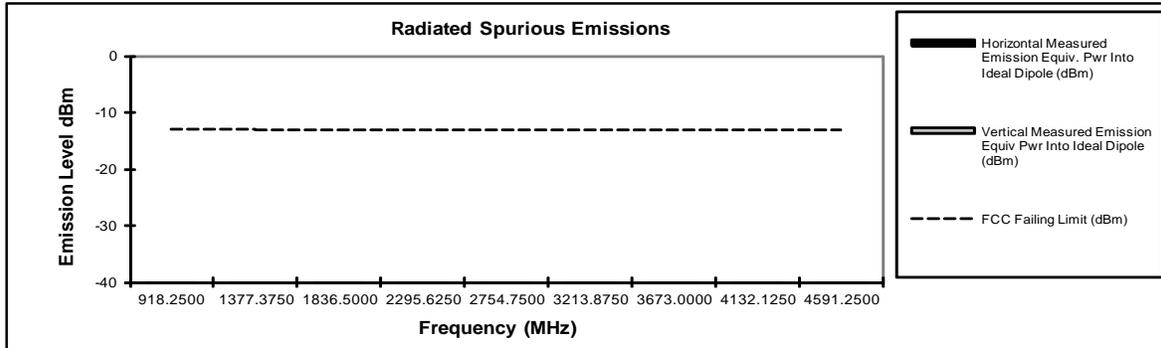


Figure 6G-2: 54W, 459.125 MHz, 25 kHz Channel Spacing (Part 22)

511.9875 MHz

Channel Spacing 25kHz | S/N 471TPF0791

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1023.9750	-13	*	*
1535.9625	-13	*	*
2047.9500	-13	*	*
2559.9375	-13	*	*
3071.9250	-13	*	*
3583.9125	-13	*	*
4095.9000	-13	*	*
4607.8875	-13	*	*
5119.8750	-13	*	*

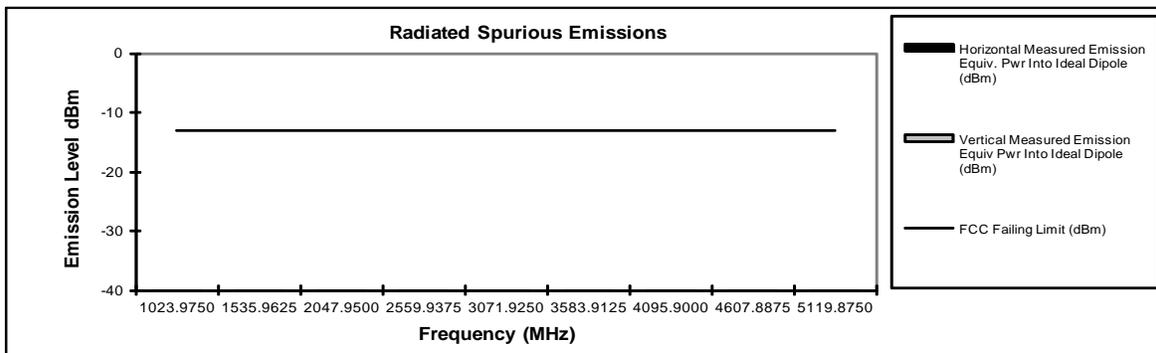


Figure 6G-3: 48W, 511.9875 MHz, 25 kHz Channel Spacing (Part 22)

519.9875 MHz **Channel Spacing 25kHz | S/N 471TPF0791**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1039.9750	-13	*	*
1559.9625	-13	*	*
2079.9500	-13	*	*
2599.9375	-13	*	*
3119.9250	-13	*	*
3639.9125	-13	*	*
4159.9000	-13	*	*
4679.8875	-13	*	*
5199.8750	-13	*	*

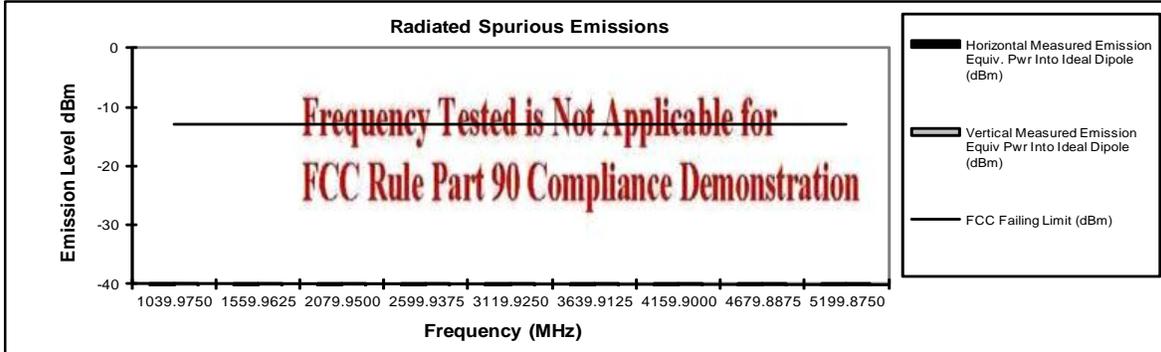


Figure 6G-4: 30W, 519.9875 MHz, 25 kHz Channel Spacing (Federal)

511.9875 MHz **Channel Spacing 20kHz | S/N 471TPF0791**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1023.9750	-13	*	*
1535.9625	-13	*	*
2047.9500	-13	*	*
2559.9375	-13	*	*
3071.9250	-13	*	*
3583.9125	-13	*	*
4095.9000	-13	*	*
4607.8875	-13	*	*
5119.8750	-13	*	*

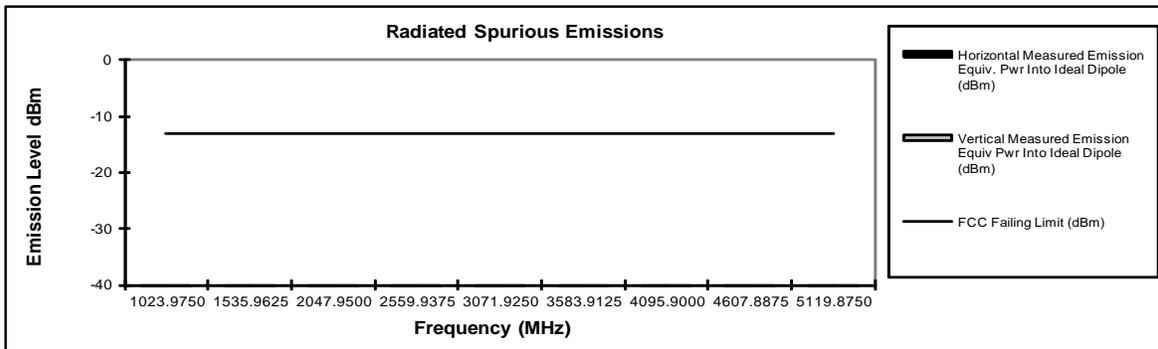


Figure 6G-5: 48W, 511.9875 MHz, 20 kHz Channel Spacing (Part 22)

450.05 MHz **Channel Spacing 12.5kHz | S/N 471TPF0791**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
900.1000	-20	*	*
1350.1500	-20	*	*
1800.2000	-20	*	*
2250.2500	-20	*	*
2700.3000	-20	*	*
3150.3500	-20	*	*
3600.4000	-20	*	*
4050.4500	-20	*	*
4500.5000	-20	*	*

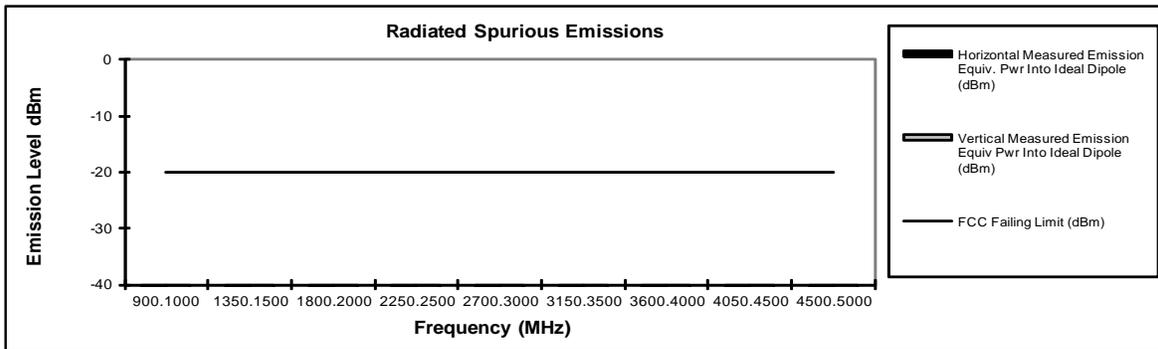


Figure 6G-6: 54W, 450.05 MHz, 12.5 kHz Channel Spacing

459.125 MHz **Channel Spacing 12.5kHz | S/N 471TPF0791**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
918.2500	-20	*	*
1377.3750	-20	*	*
1836.5000	-20	*	*
2295.6250	-20	*	*
2754.7500	-20	*	*
3213.8750	-20	*	*
3673.0000	-20	*	*
4132.1250	-20	*	*
4591.2500	-20	*	*

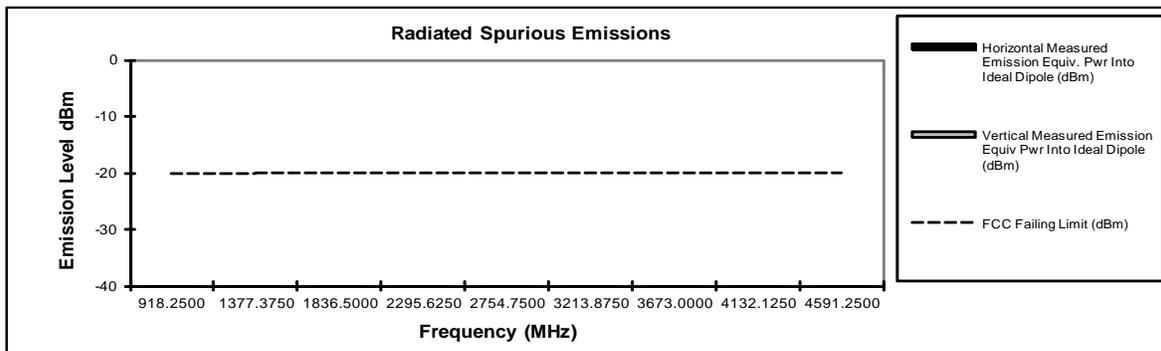


Figure 6G-7: 54W, 459.125 MHz, 12.5 kHz Channel Spacing

511.9875 MHz **Channel Spacing 12.5kHz | S/N 471TPF0791**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1023.9750	-20	*	*
1535.9625	-20	*	*
2047.9500	-20	*	*
2559.9375	-20	*	*
3071.9250	-20	*	*
3583.9125	-20	*	*
4095.9000	-20	*	*
4607.8875	-20	*	*
5119.8750	-20	*	*

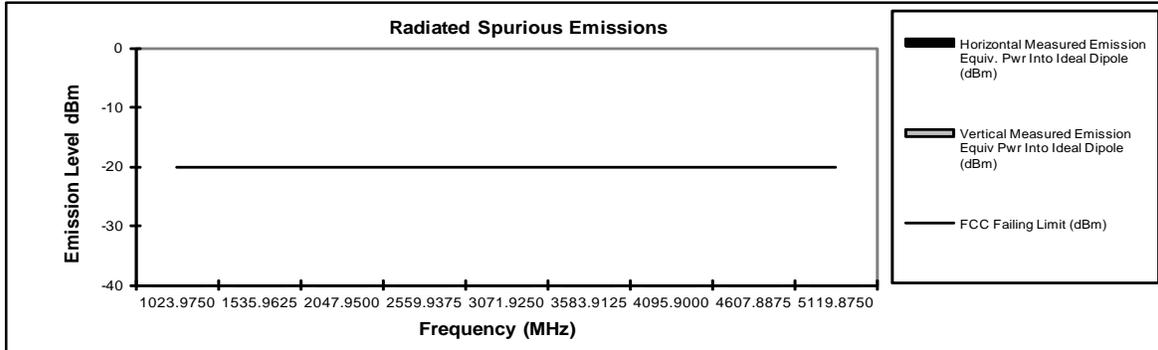


Figure 6G-8: 48W, 511.9875 MHz, 12.5 kHz Channel Spacing

519.9875 MHz **Channel Spacing 12.5kHz | S/N 471TPF0791**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1039.9750	-20	*	*
1559.9625	-20	*	*
2079.9500	-20	*	*
2599.9375	-20	*	*
3119.9250	-20	*	*
3639.9125	-20	*	*
4159.9000	-20	*	*
4679.8875	-20	*	*
5199.8750	-20	*	*

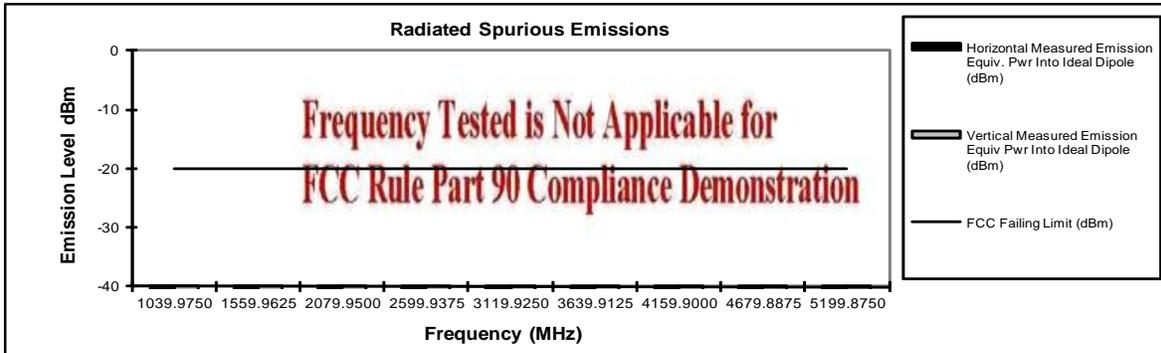


Figure 6G-9: 30W, 519.9875 MHz, 12.5 kHz Channel Spacing (Federal)

APCO DIGITAL MODE

450.05 MHz		Channel Spacing 12.5kHz S/N 471TPF0791	
Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
900.1000	-20	*	*
1350.1500	-20	*	*
1800.2000	-20	*	*
2250.2500	-20	*	*
2700.3000	-20	*	*
3150.3500	-20	*	*
3600.4000	-20	*	*
4050.4500	-20	*	*
4500.5000	-20	*	*

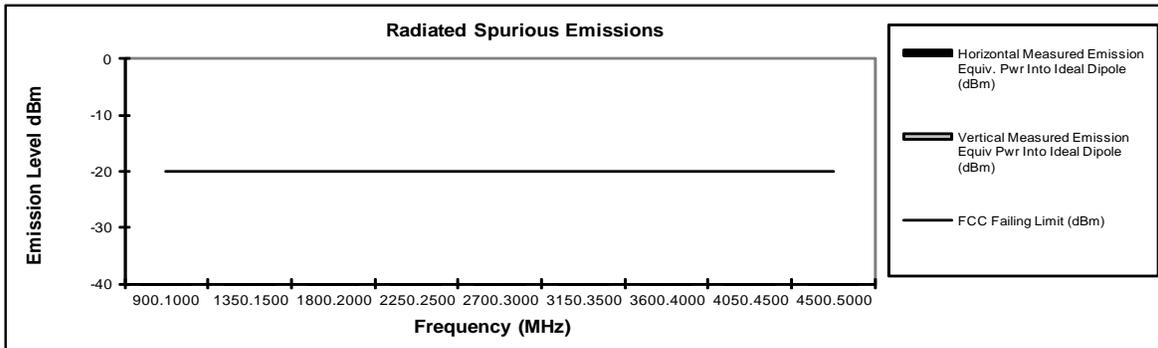


Figure 6G-10: 54W, 450.05 MHz, 12.5 kHz Channel Spacing

459.125 MHz

Channel Spacing 12.5kHz | S/N 471TPF0791

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
918.2500	-20	*	*
1377.3750	-20	*	*
1836.5000	-20	*	*
2295.6250	-20	*	*
2754.7500	-20	*	*
3213.8750	-20	*	*
3673.0000	-20	*	*
4132.1250	-20	*	*
4591.2500	-20	*	*

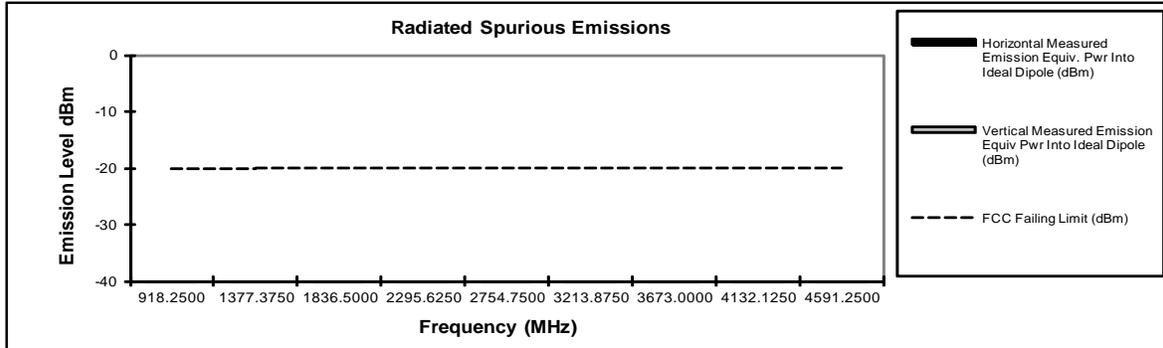


Figure 6G-11: 54W, 459.125 MHz, 12.5 kHz Channel Spacing

511.9875 MHz

Channel Spacing 12.5kHz | S/N 471TPF0791

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1023.9750	-20	*	*
1535.9625	-20	*	*
2047.9500	-20	*	*
2559.9375	-20	*	*
3071.9250	-20	*	*
3583.9125	-20	*	*
4095.9000	-20	*	*
4607.8875	-20	*	*
5119.8750	-20	*	*

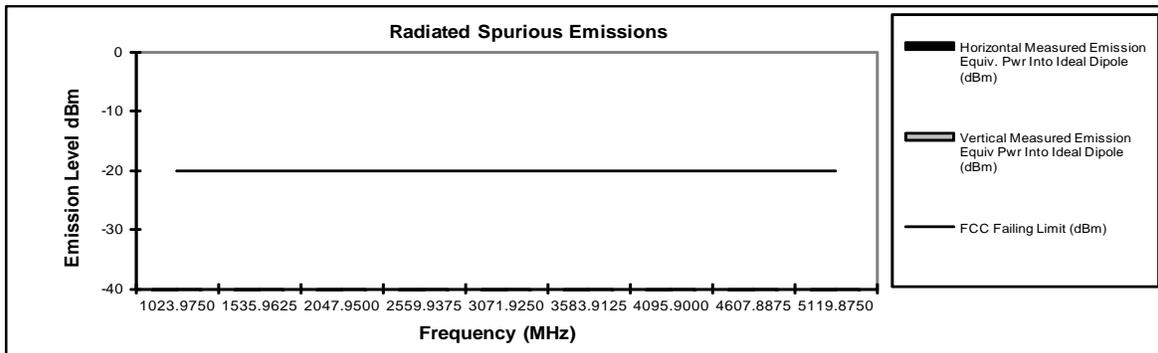


Figure 6G-12: 48W, 511.9875 MHz, 12.5 kHz Channel Spacing

519.9875 MHz

Channel Spacing 12.5kHz | S/N 471TPF0791

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1039.9750	-20	*	*
1559.9625	-20	*	*
2079.9500	-20	*	*
2599.9375	-20	*	*
3119.9250	-20	*	*
3639.9125	-20	*	*
4159.9000	-20	*	*
4679.8875	-20	*	*
5199.8750	-20	*	*

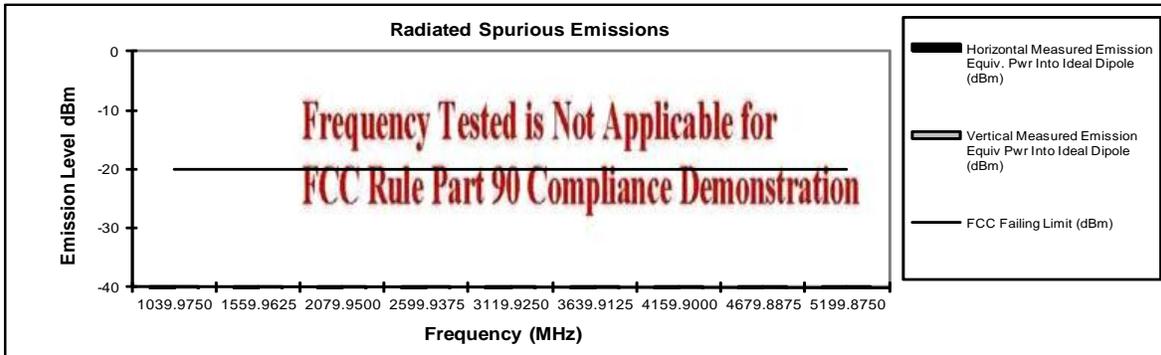


Figure 6G-13: 30W, 519.9875 MHz, 12.5 kHz Channel Spacing (Federal)

PHASE II (TDMA) MODE

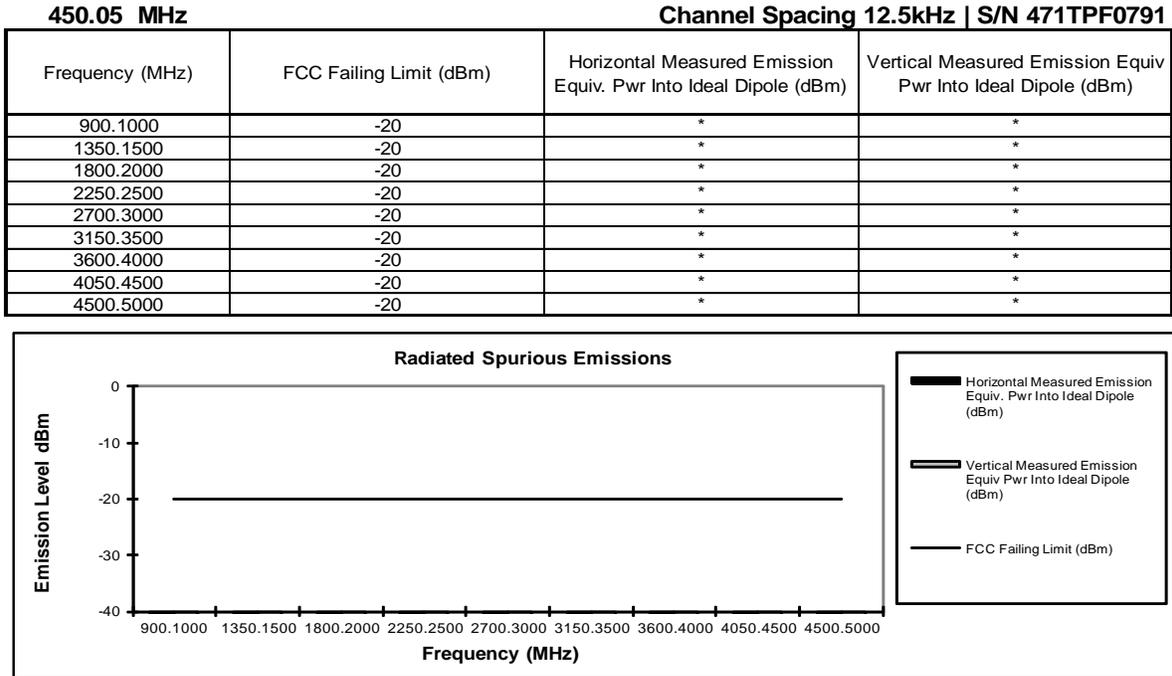


Figure 6G-14: 54W, 450.05 MHz, 12.5 kHz Channel Spacing

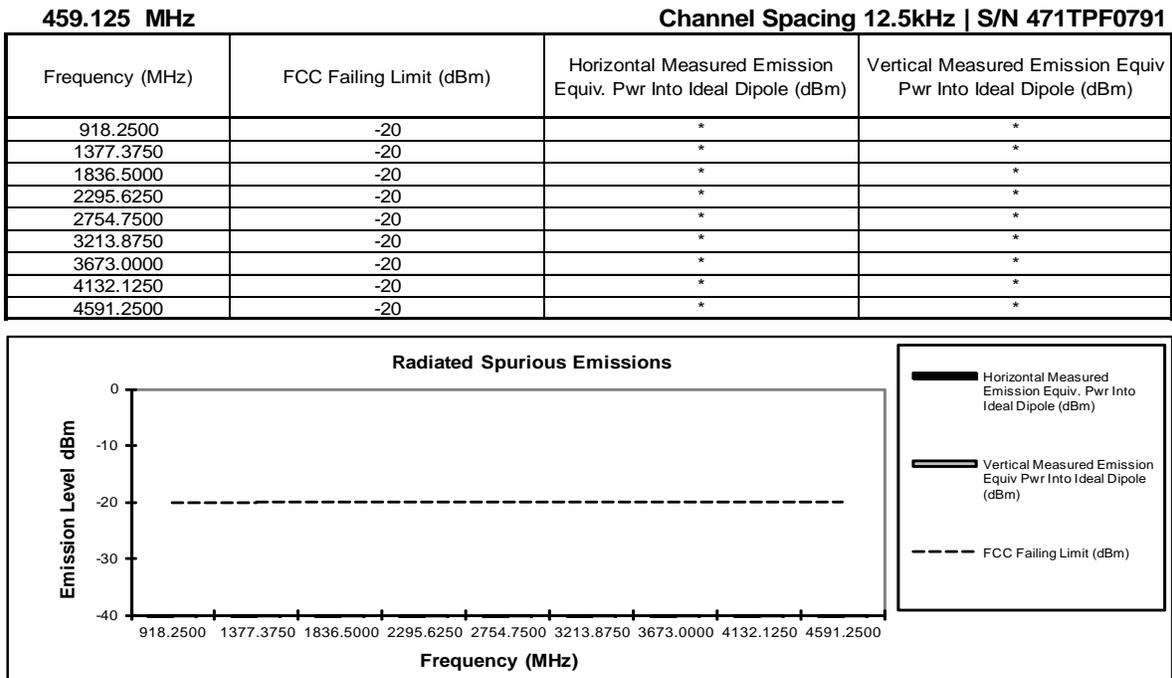


Figure 6G-15: 54W, 459.125 MHz, 12.5 kHz Channel Spacing

EXHIBIT 6H
Frequency Stability

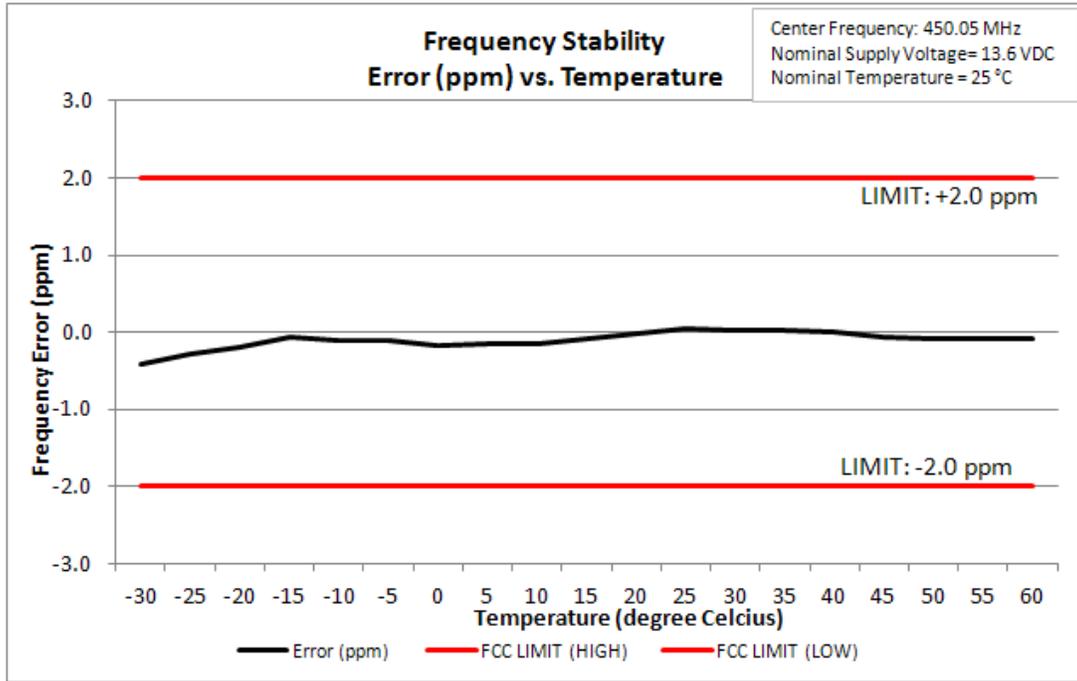


Figure 6H-1: Frequency Stability vs. Temperature, 450.050 MHz

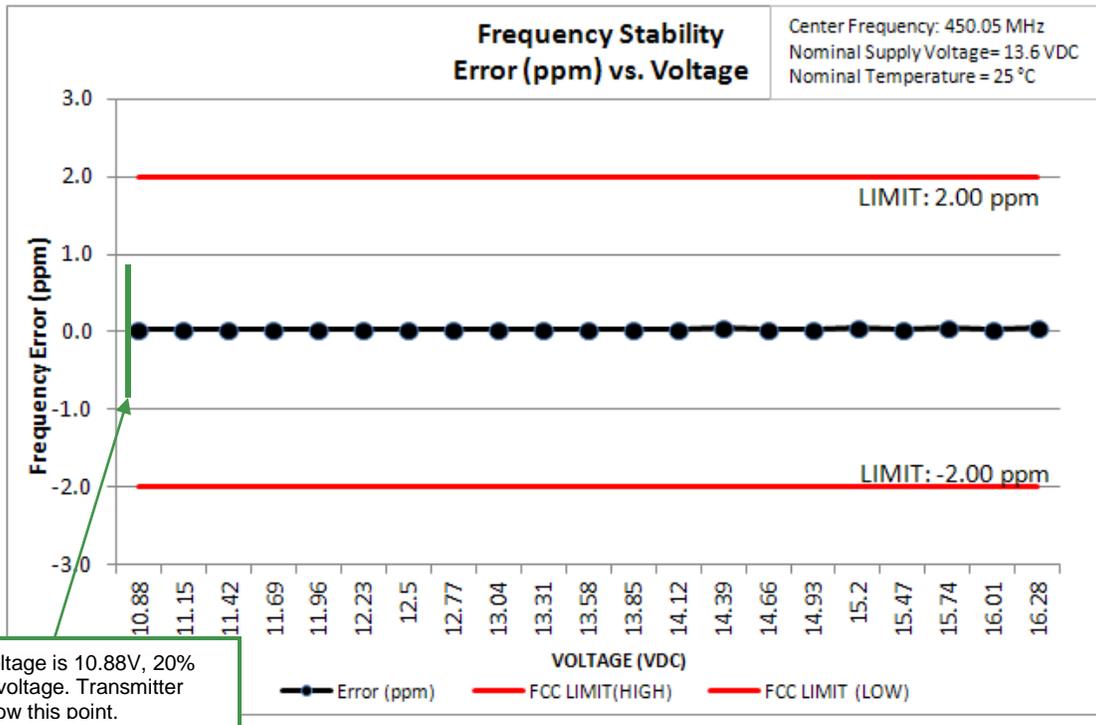


Figure 6H-2: Frequency Stability vs. Supply Voltage Change, 450.050 MHz

EXHIBIT 6I Transient Frequency Behavior

Analog Mode

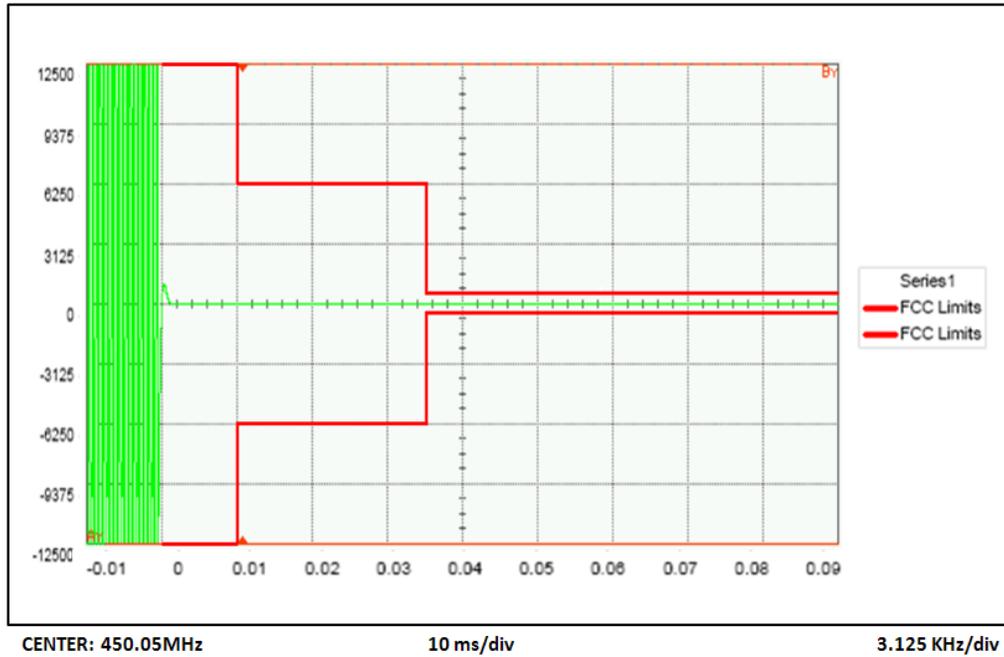


Figure 6I-1: Transient Frequency Behavior. 450.050 MHz, 12.5 kHz Channel Spacing, Key-up Transient

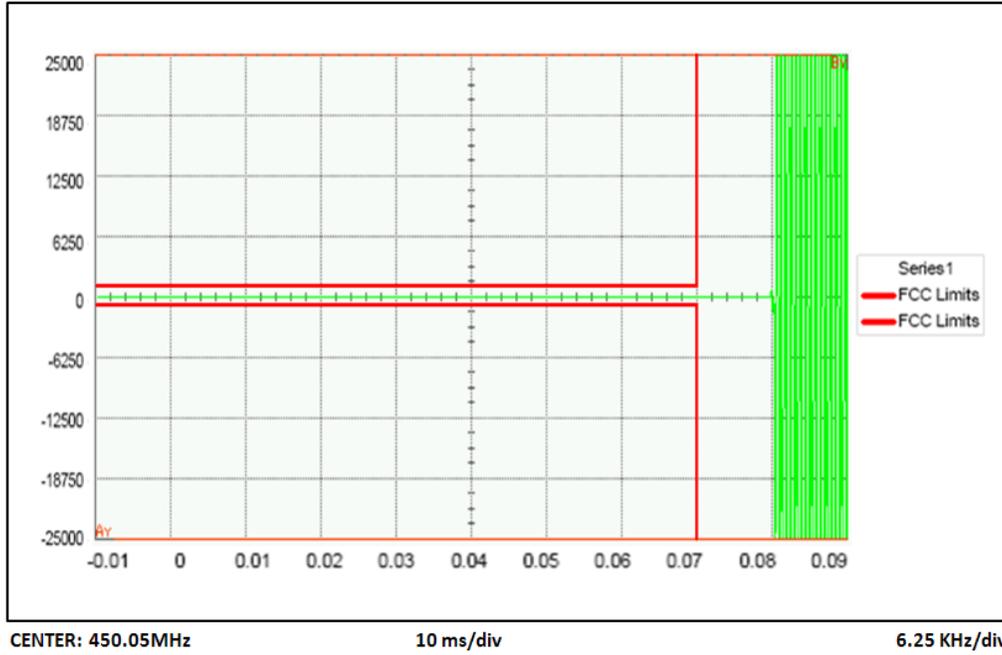


Figure 6I-4: Transient Frequency Behavior. 450.050 MHz, 25 kHz Channel Spacing, De-Key Transient (Part 74)