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- 6H-1 – 154.9875 MHz vs. Temperature
- 6H-2 – 154.9875 MHz vs. Supply Voltage

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- 6J-1 – 154.9875 MHz, 12.5 kHz Channel Spacing – Transmitter On
- 6J-2 – 154.9875 MHz, 12.5 kHz Channel Spacing – Transmitter Off
- 6J-3 – 154.9875 MHz, 25 kHz Channel Spacing –Tx On (Not for Part 90 Review)
- 6J-4 – 154.9875 MHz, 25 kHz Channel Spacing –Tx Off (Not for Part 90 Review)

Important Note: The data in this test report meets or exceeds the technical requirements of FCC Rule Parts 22, 74, 80, and 90.

EXHIBIT 6A**RF Conducted Power Output Data** -- Pursuant 47 CFR 2.1046(a), 2.1033(c) (6), 2.1033(c) (7) and 2.1033(c) (8)

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

Frequency = 136.0125 MHz:

Output RF power	60.0 Watts
DC Voltage	13.6 Volts
DC Current	9.89 Amps

Frequency = 136.0125 MHz:

Output RF power	0.93 Watts
DC Voltage	13.6 Volts
DC Current	2.06 Amps

Frequency = 154.9875 MHz:

Output RF power	59.8 Watts
DC Voltage	13.6 Volts
DC Current	8.63 Amps

Frequency = 154.9875 MHz:

Output RF power	0.95 Watts
DC Voltage	13.6 Volts
DC Current	1.93 Amps

Frequency = 173.9875 MHz:

Output RF power	60.0 Watts
DC Voltage	13.6 Volts
DC Current	9.02 Amps

Frequency = 173.9875 MHz:

Output RF power	0.94 Watts
DC Voltage	13.6 Volts
DC Current	1.98 Amps

EXHIBIT 6B**Transmit Audio Response -- Pursuant 47 CFR 2.1047 and 2.1033(c) (13)**

Audio Frequency Response
(Freq: 154.9875MHz, ChSp: 12.5 kHz)

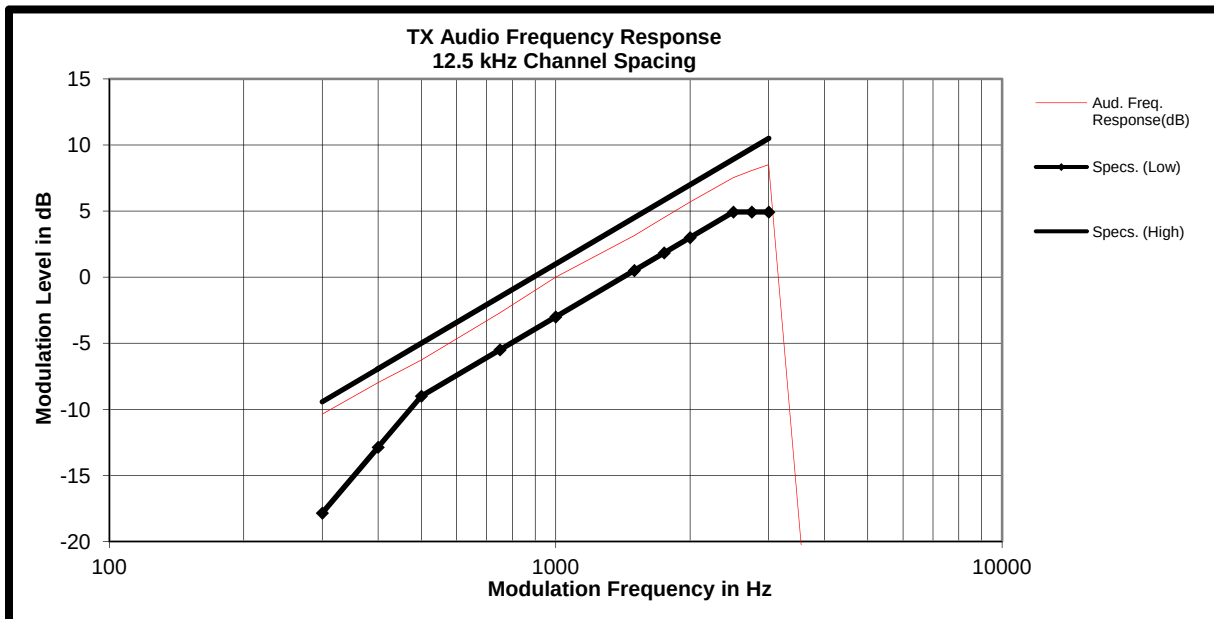


Figure 6B-1: 12.5 kHz Channel Spacing, 154.9875 MHz

Audio Frequency Response
(Freq: 154.9875MHz, ChSp: 25 kHz)

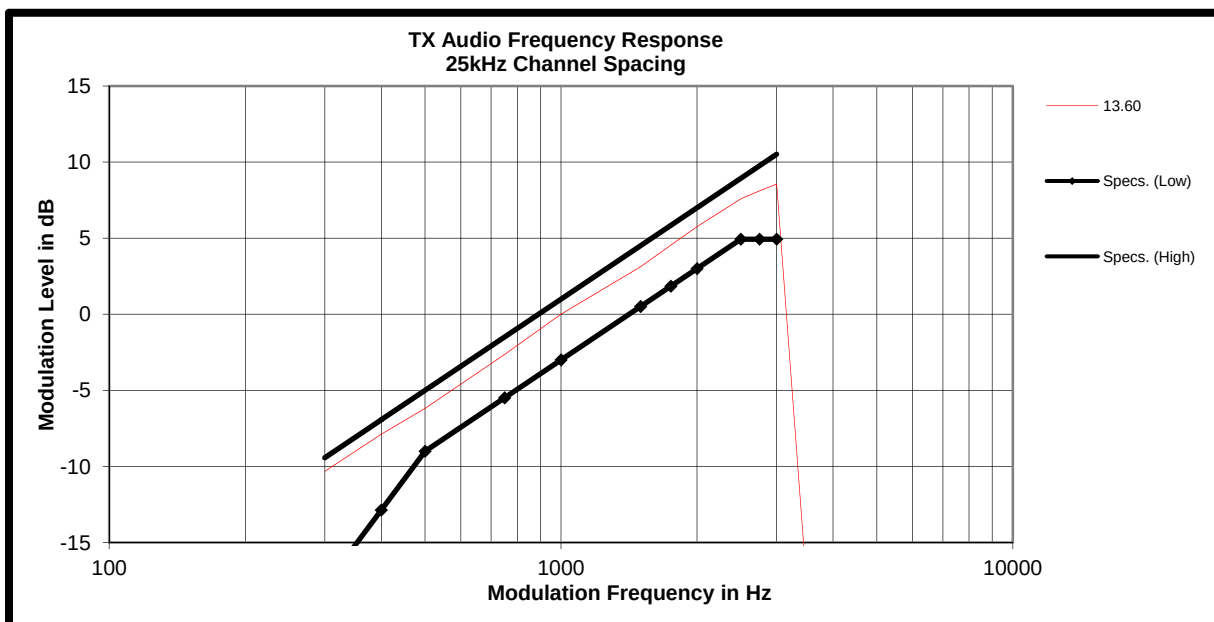
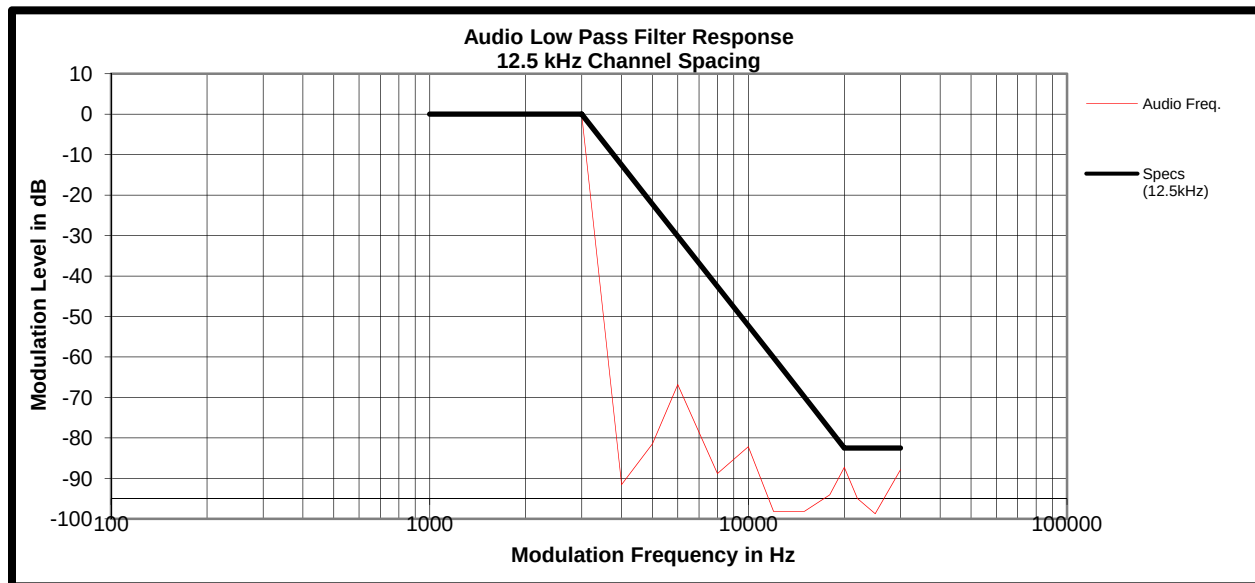


Figure 6B-2: 25 kHz Channel Spacing, 154.9875 MHz (Not for FCC Review)

EXHIBIT 6C**Audio Low Pass Filter Response -- Pursuant 47 CFR 2.1047 and 2.1033(c) (13)****Transmit Audio Low Pass Filter Response**

(Freq: 154.9875, ChSp: 12.5 kHz)

**Figure 6C-1: 12.5 kHz Channel Spacing, 154.9875 MHz****Transmit Audio Low Pass Filter Response**

(Freq: 154.9875, ChSp: 25 kHz)

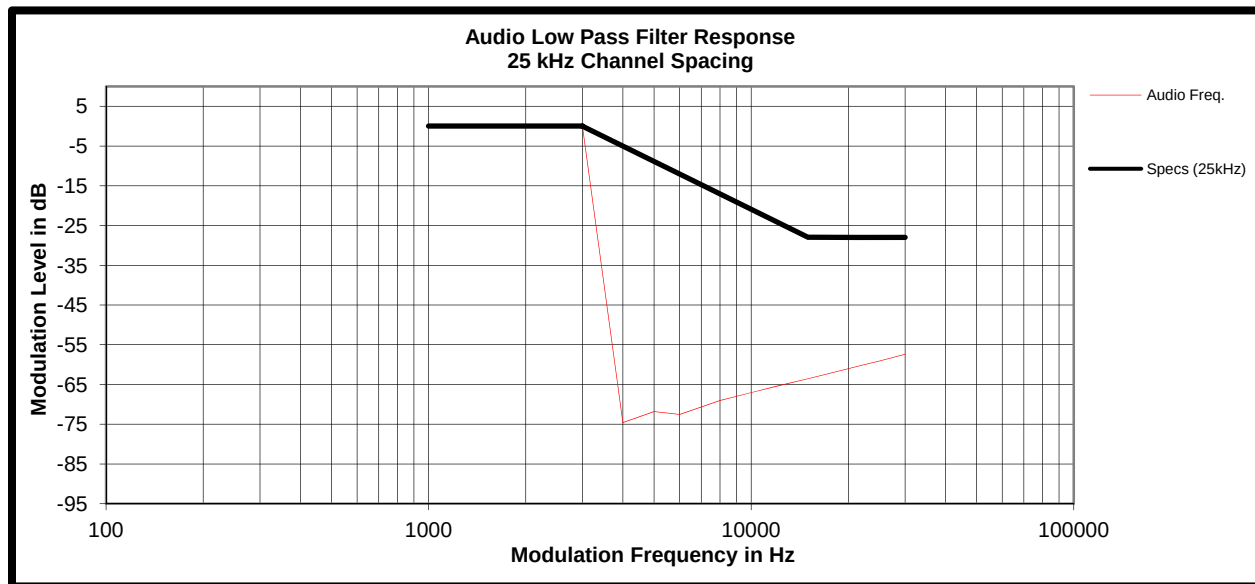
**Figure 6C-2: 25 kHz Channel Spacing, 154.9875MHz (Not for FCC Review)**

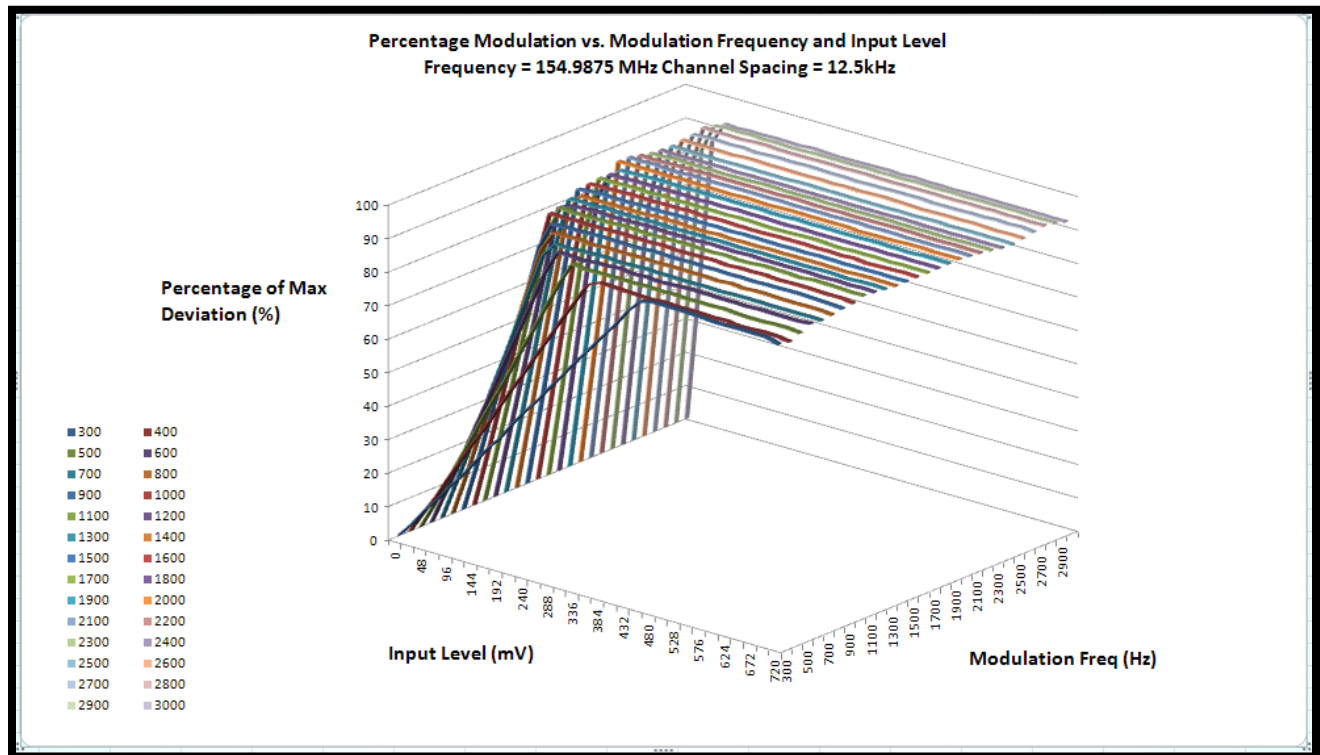
EXHIBIT 6D**Modulation Limiting** -- Pursuant 47 CFR 2.1047 and 2.1033(c) (13)

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

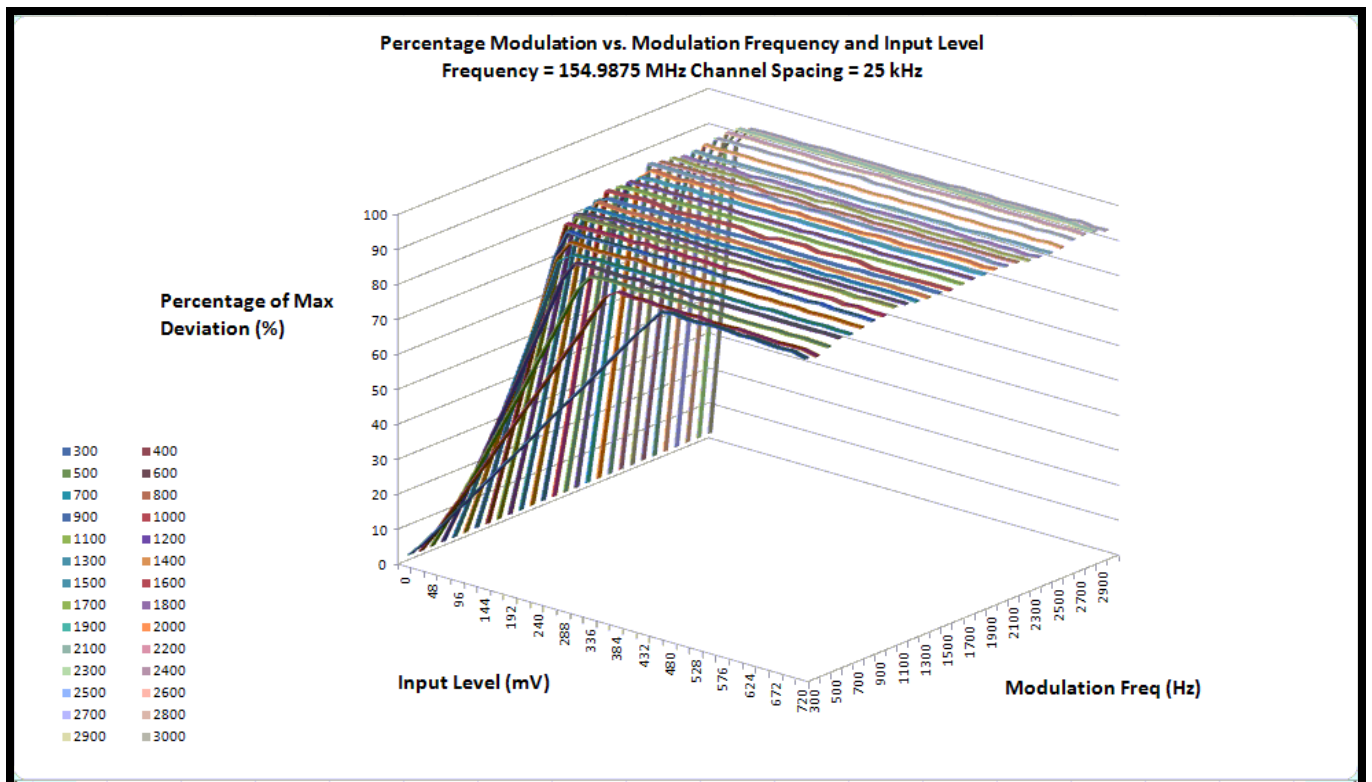


Figure 6D-2: The Percentage of Max. Deviation on the “Z” axis is referenced to 5 kHz for 25 kHz bandwidth (Not for FCC Review)

EXHIBIT 6E**Occupied Bandwidth Data** -- Pursuant 47 CFR 2.1049, 90.210(g) and 90.691

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 = Bandwidth

M= Maximum modulating frequency
D = Deviation

EXHIBIT 6E-1Standard 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-2Standard 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-3Digital (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 Déviation</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.

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):

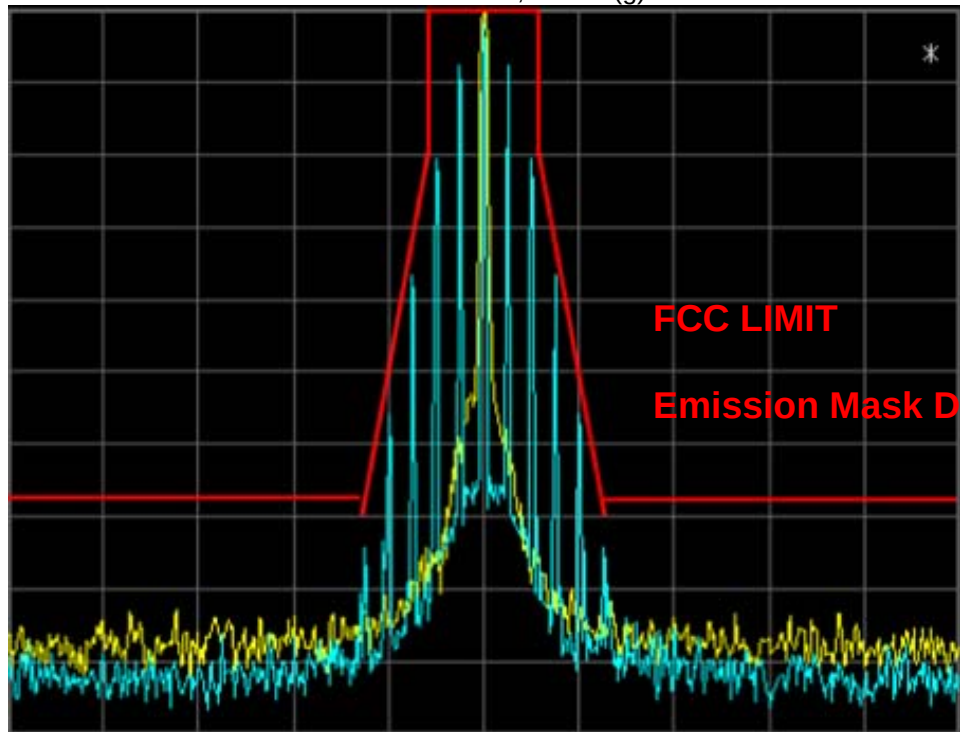
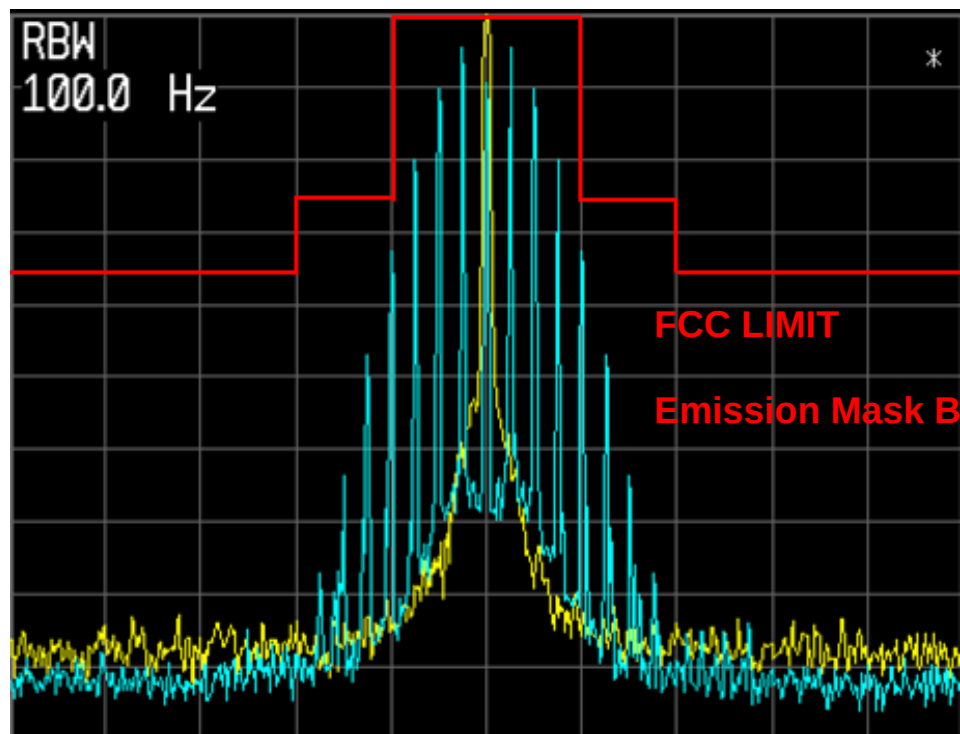
Emission Designator 20K0F1E

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 -- Pursuant 47 CFR 2.1049, 90.210(g) and 90.691****Figure 6E-1:** 12.5 kHz Channel Spacing, 154.9875 MHz, Analog Voice, Mask D 11KOF3E**Figure 6E-2:** 25.0 kHz Channel Spacing, 154.9875 MHz, Analog Voice, Mask B 16K0F3E (Not for FCC Review)

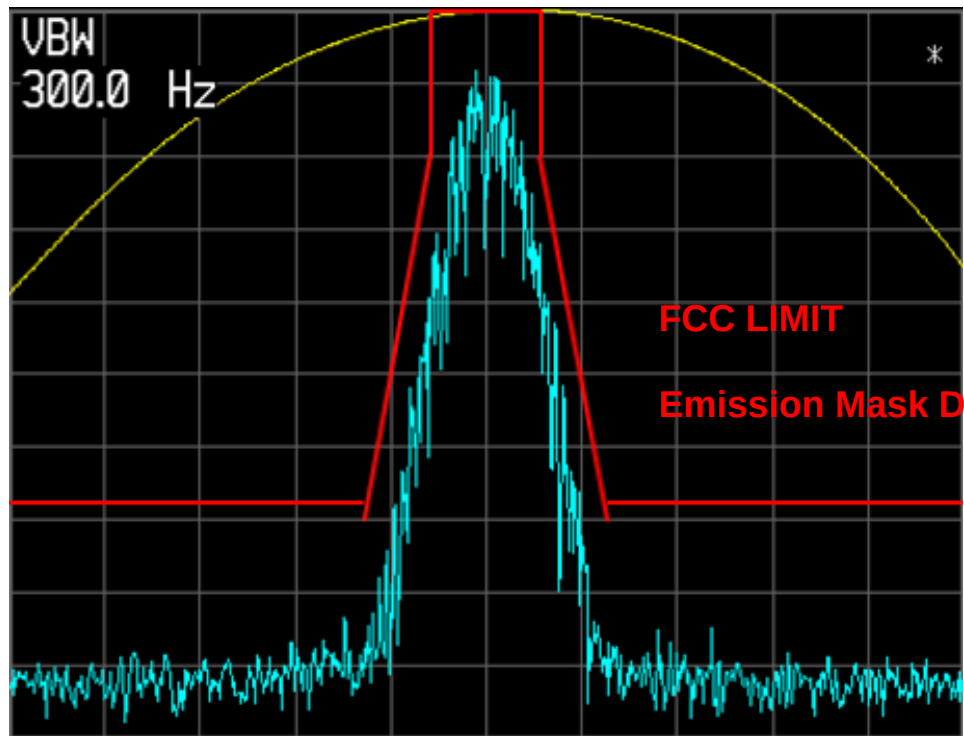


Figure 6E-3: 12.5 kHz Channel Spacing, 154.9875 MHz, APCO Digital Data, Mask D 8K10F1D

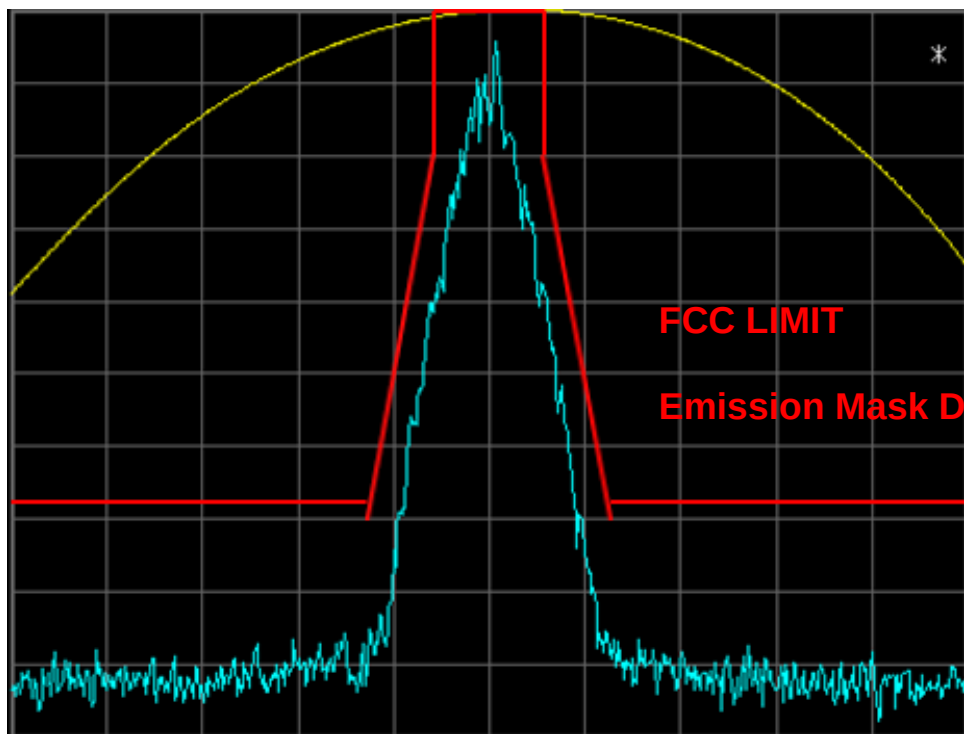


Figure 6E-4: 12.5 kHz Channel Spacing, 154.9875 MHz, APCO Digital Voice, Mask D 8K10F1E

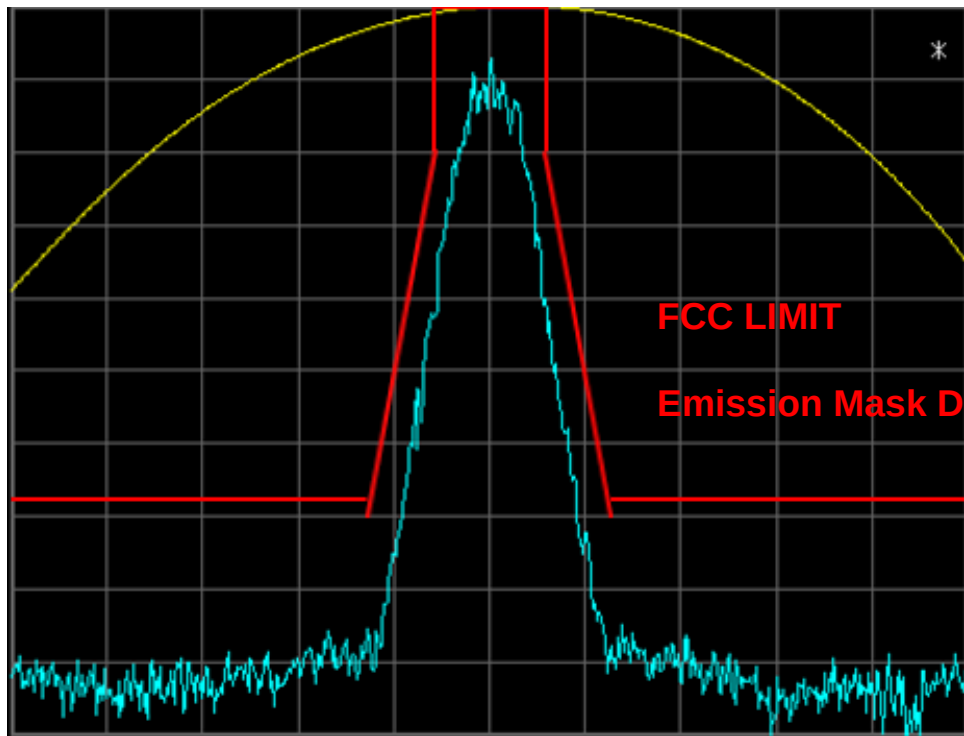


Figure 6E-5: 12.5 kHz Channel Spacing, 154.9875 MHz, Phase II (TDMA), Mask D 8K10F1W

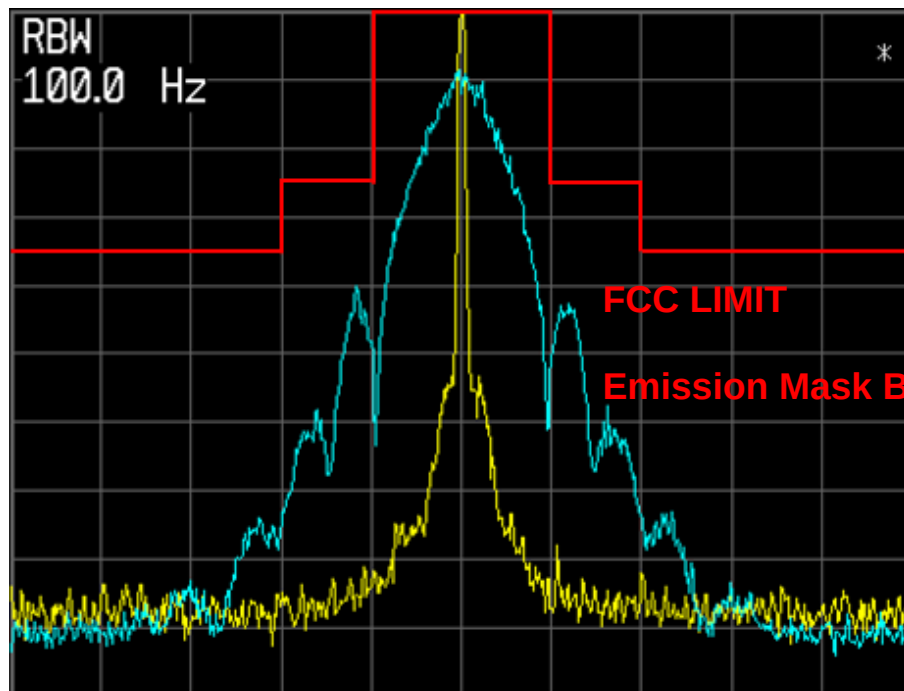


Figure 6E-6: 20 kHz Channel Spacing, 154.9875 MHz, Analog Voice Encryption, Mask B 20K0F1E (Not for FCC Review)

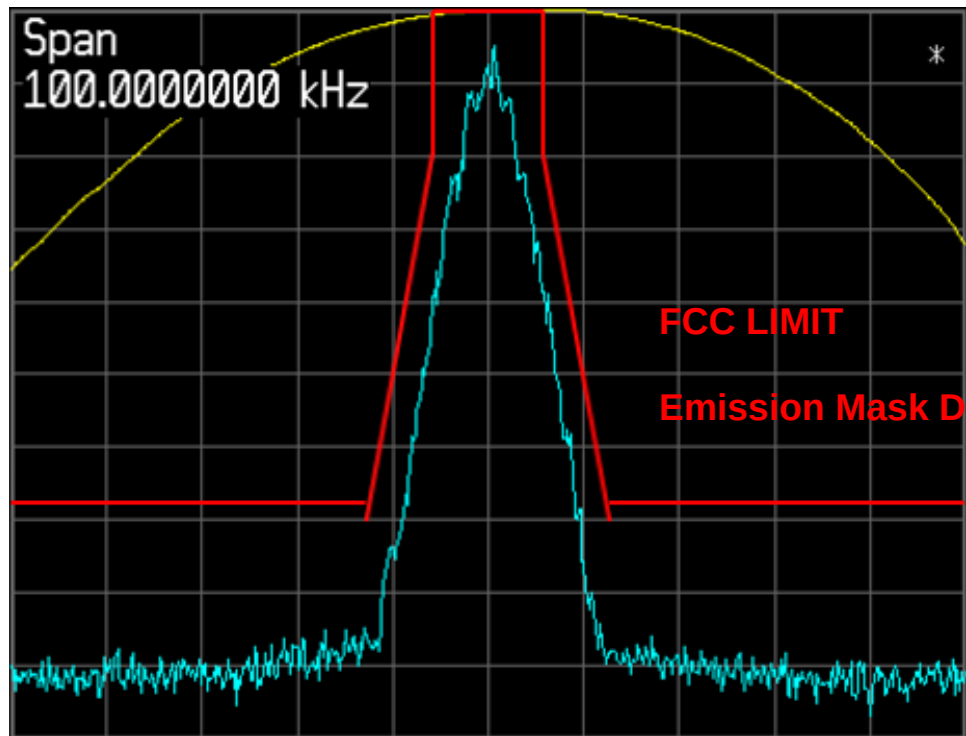


Figure 6E-7: 12.5 kHz Channel Spacing, 154.9875 MHz, APCO Digital Voice Encryption, Mask D
8K10F1E

EXHIBIT 6F**Conducted Spurious Emissions** - Pursuant 47 CFR 2.1047 and 2.1033(c) (13)

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.

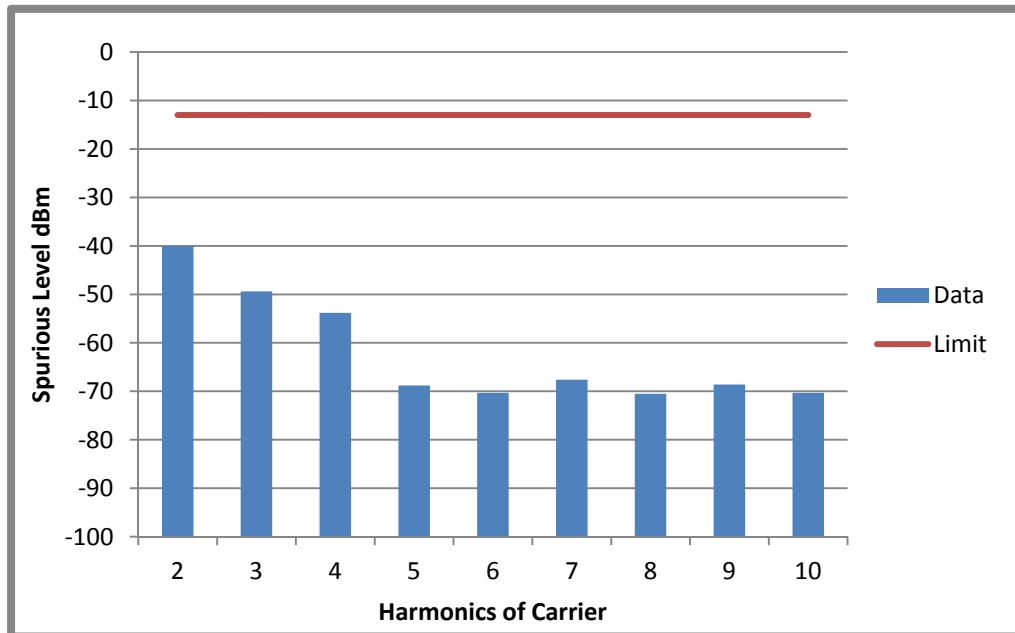
ANALOG MODE

Figure 6F-1: 60 Watt Harmonic of Carrier 136.0125 MHz, 25 kHz Channel Spacing (Not for FCC Review)

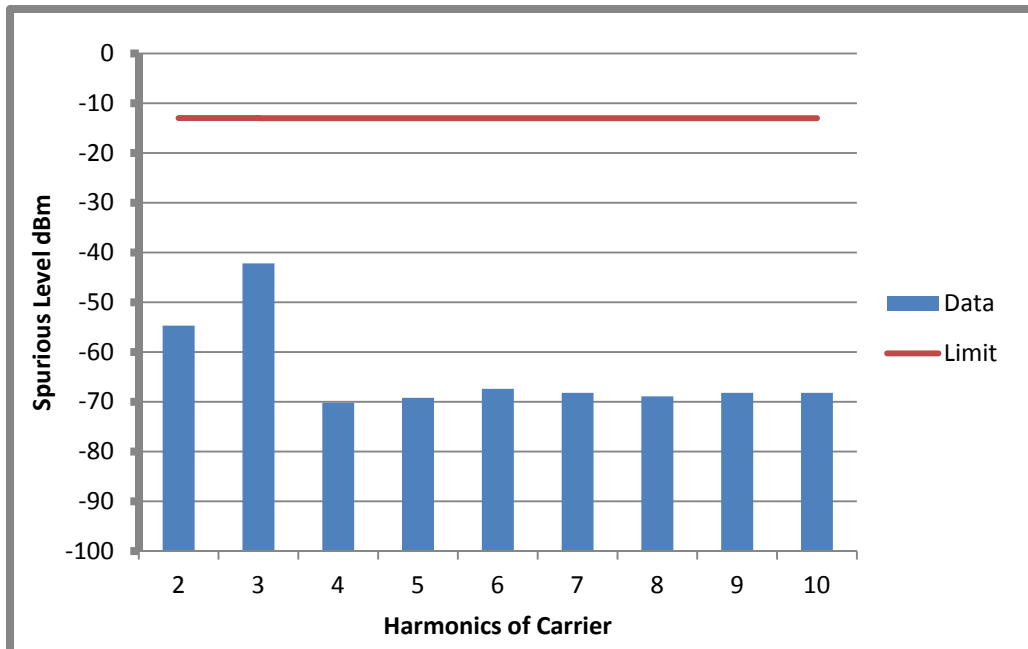


Figure 6F- 2: 60 Watts Harmonic of Carrier 154.9875 MHz, 25 kHz Channel Spacing (Not for FCC Review)

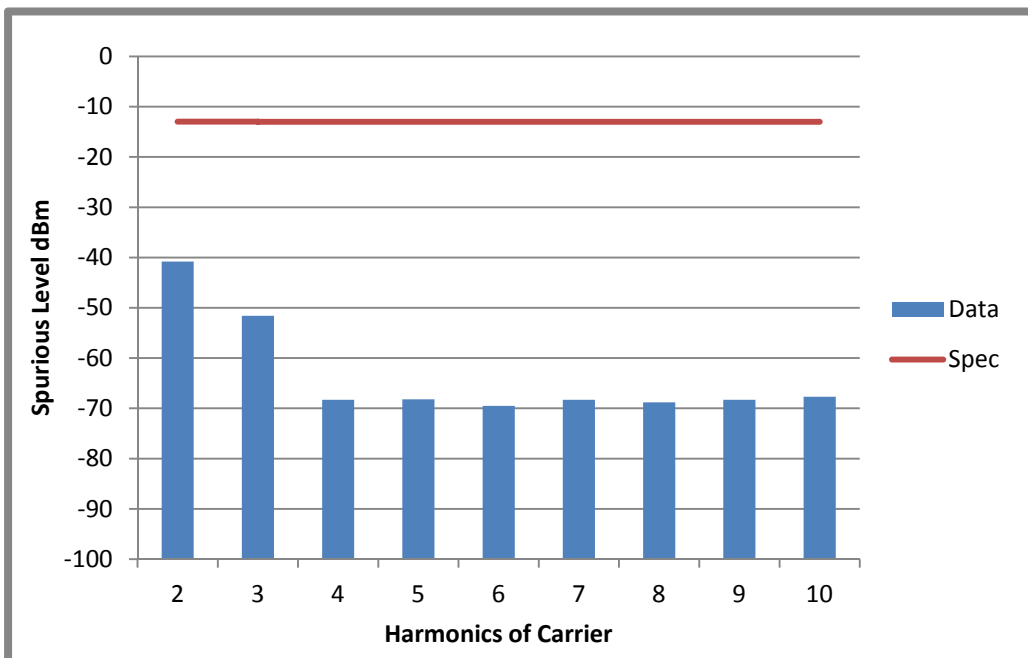


Figure 6F- 3: 60 Watts Harmonic of Carrier 173.9875 MHz, 25 kHz Channel Spacing (Not for FCC Review)

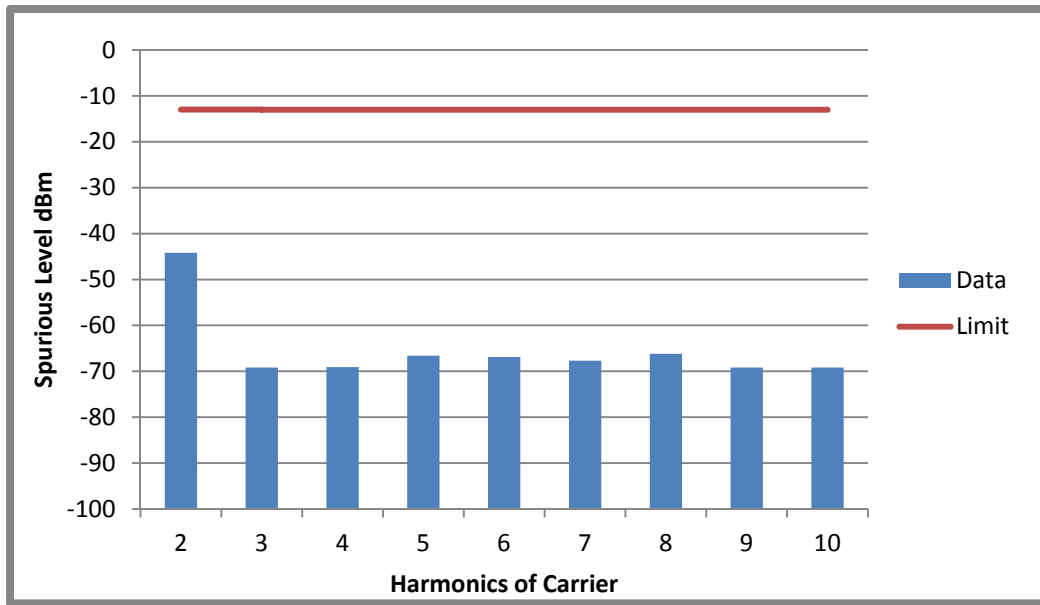


Figure 6F- 4: 1 Watt Harmonic of Carrier 136.0125 MHz, 25 kHz Channel Spacing (Not for FCC Review)

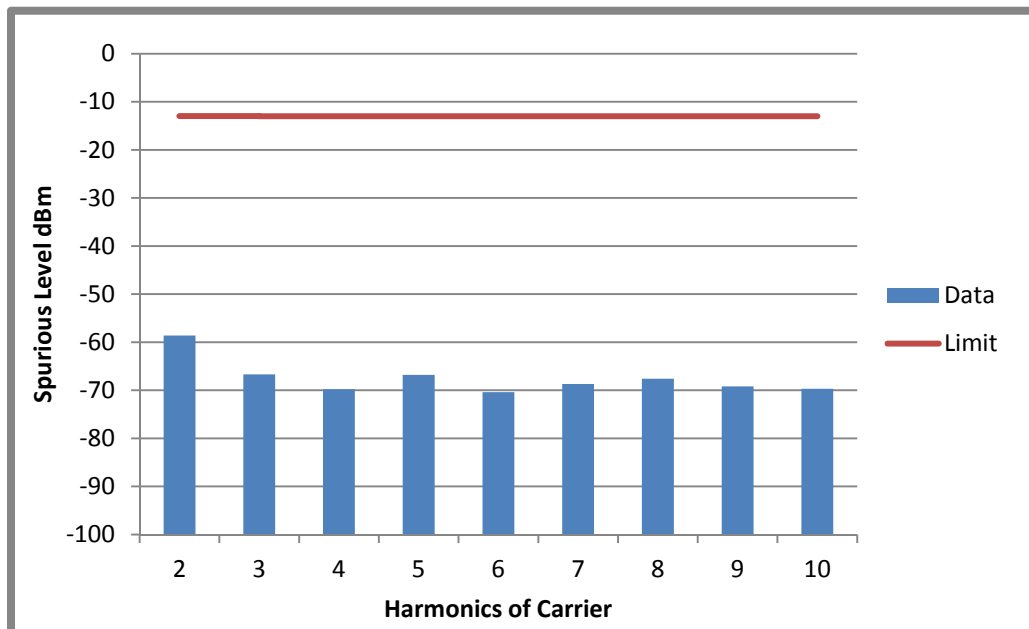


Figure 6F- 5: 1 Watt Harmonic of Carrier 154.9875 MHz, 25 kHz Channel Spacing (Not for FCC Review)

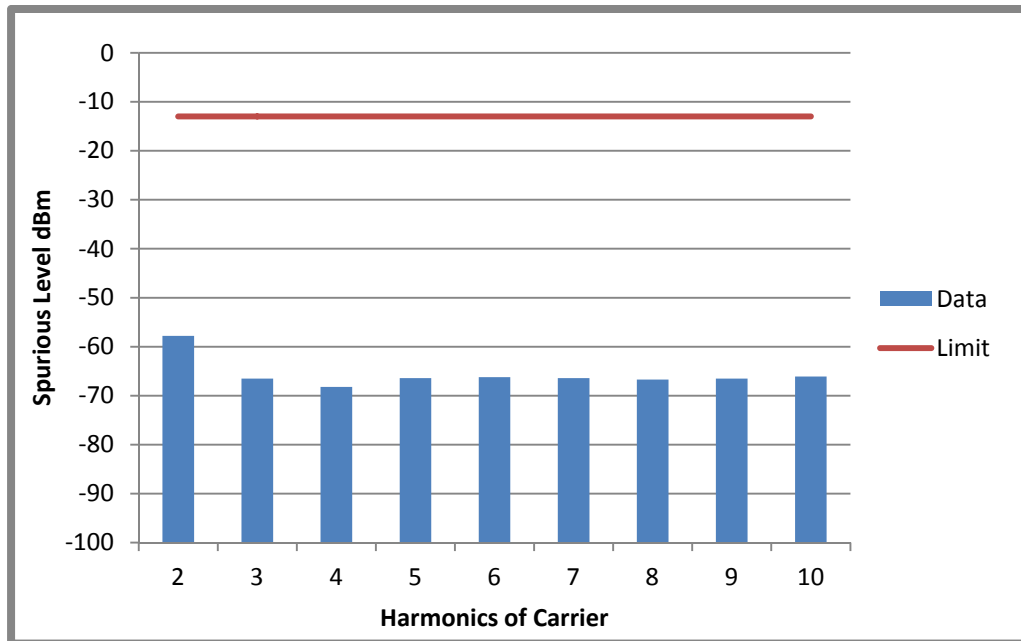


Figure 6F- 6: 1 Watt Harmonic of Carrier 173.9875 MHz, 25 kHz Channel Spacing (Not for FCC Review)

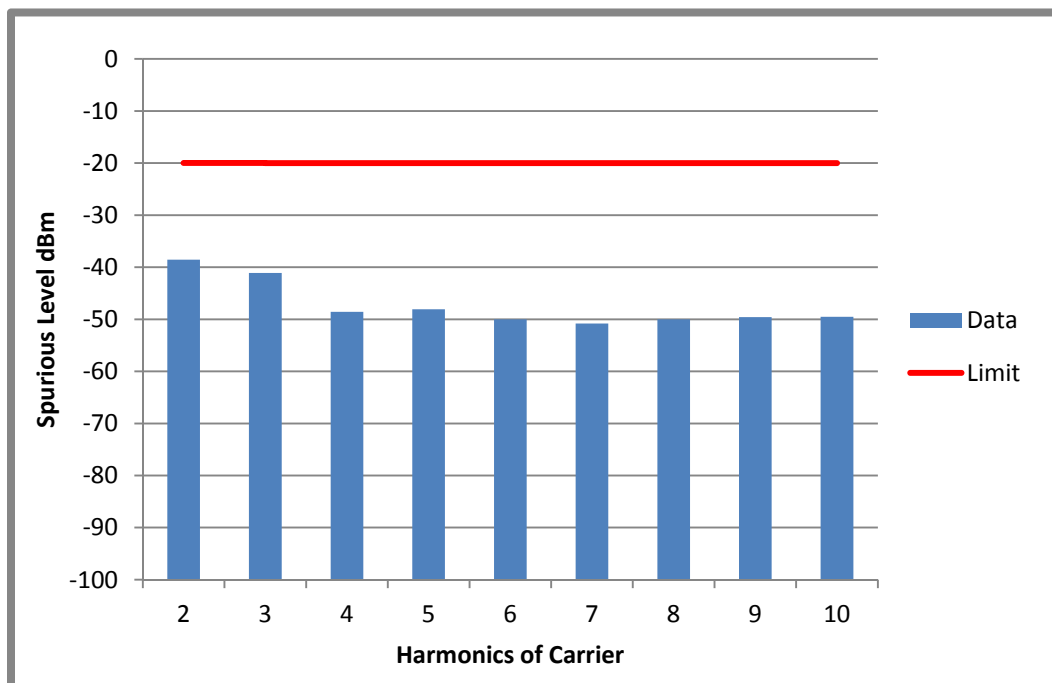
APCO DIGITAL MODE

Figure 6F- 7: 60 Watt Harmonic of Carrier 136.0125 MHz, 12.5 kHz Channel Spacing (Not for FCC Review)

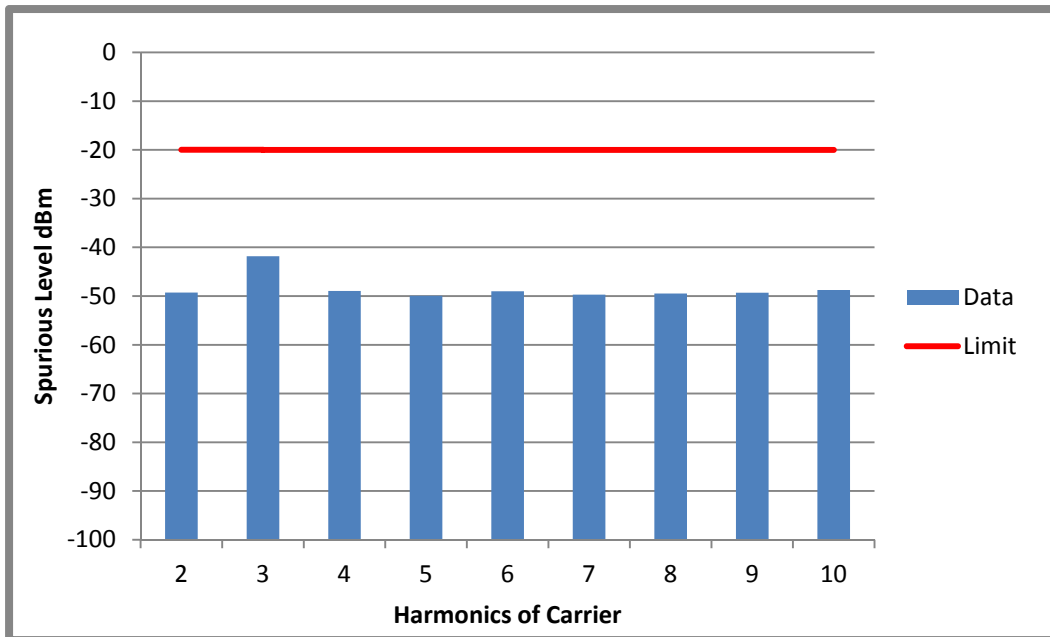


Figure 6F- 8: 60 Watt Harmonic of Carrier 154.9875 MHz, 12.5 kHz Channel Spacing

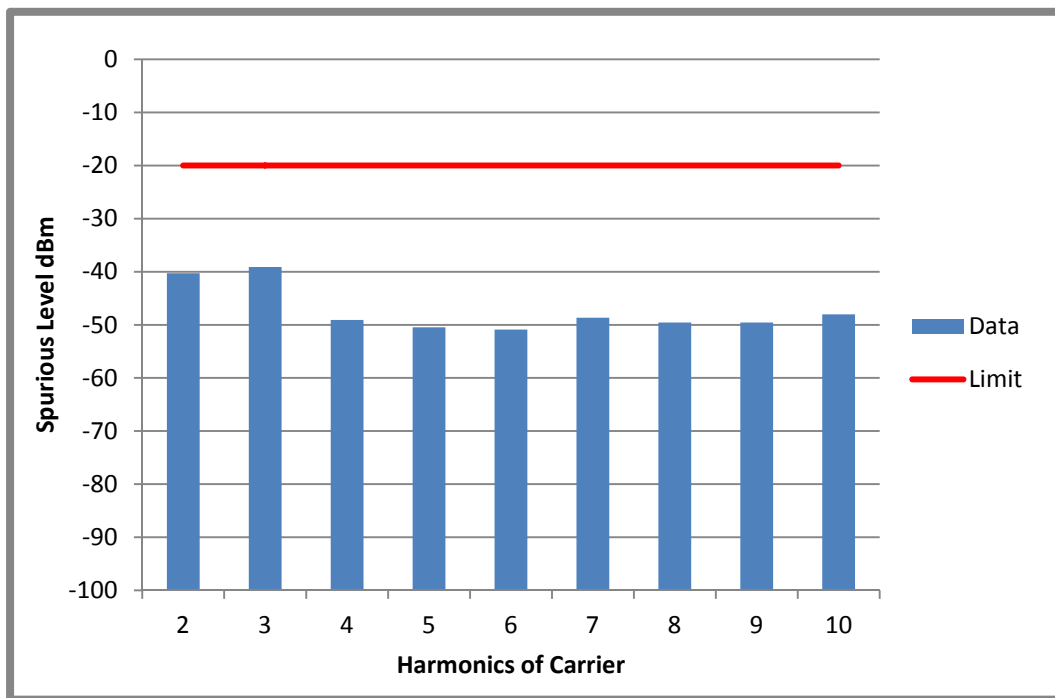


Figure 6F-9: 60 Watt Harmonic of Carrier 173.9875 MHz, 12.5 kHz Channel Spacing

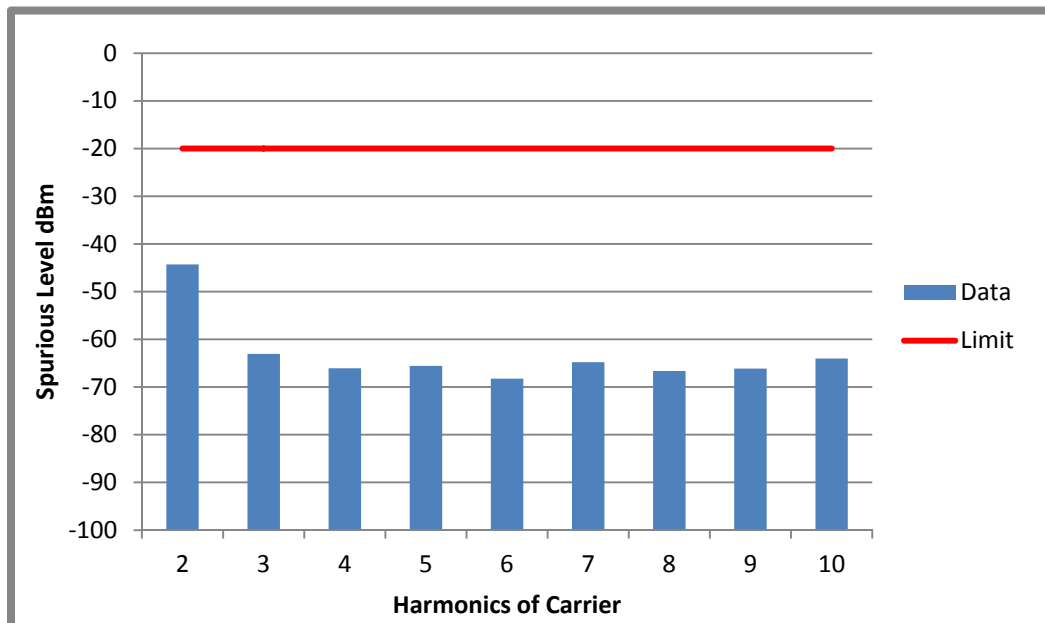


Figure 6F-10: 1 Watt Harmonic of Carrier 136.0125 MHz, 12.5 kHz Channel Spacing (Not for FCC Review)

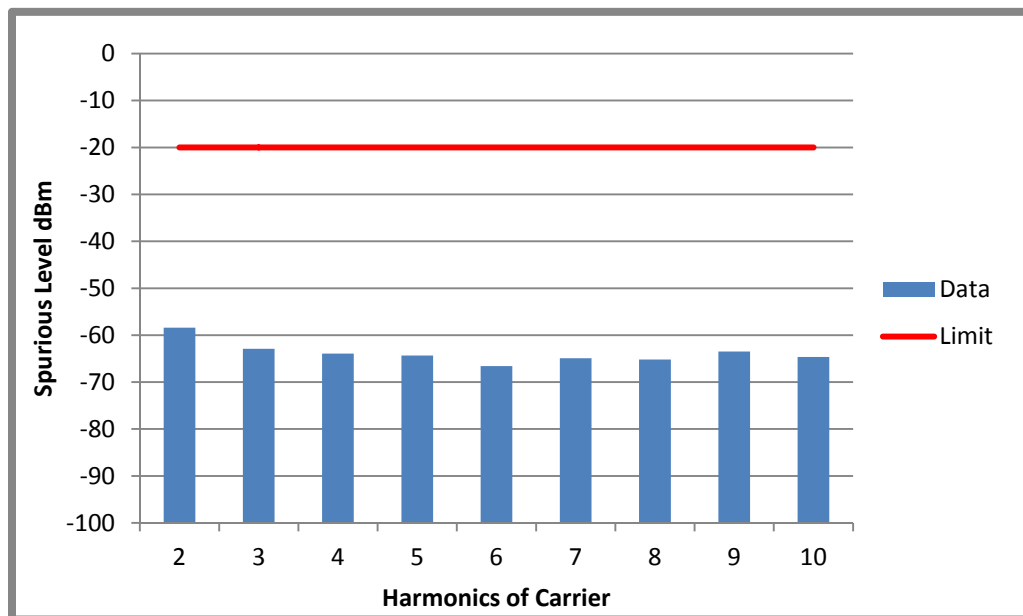


Figure 6F-11: 1 Watt Harmonic of Carrier 154.9875 MHz, 12.5 kHz Channel Spacing

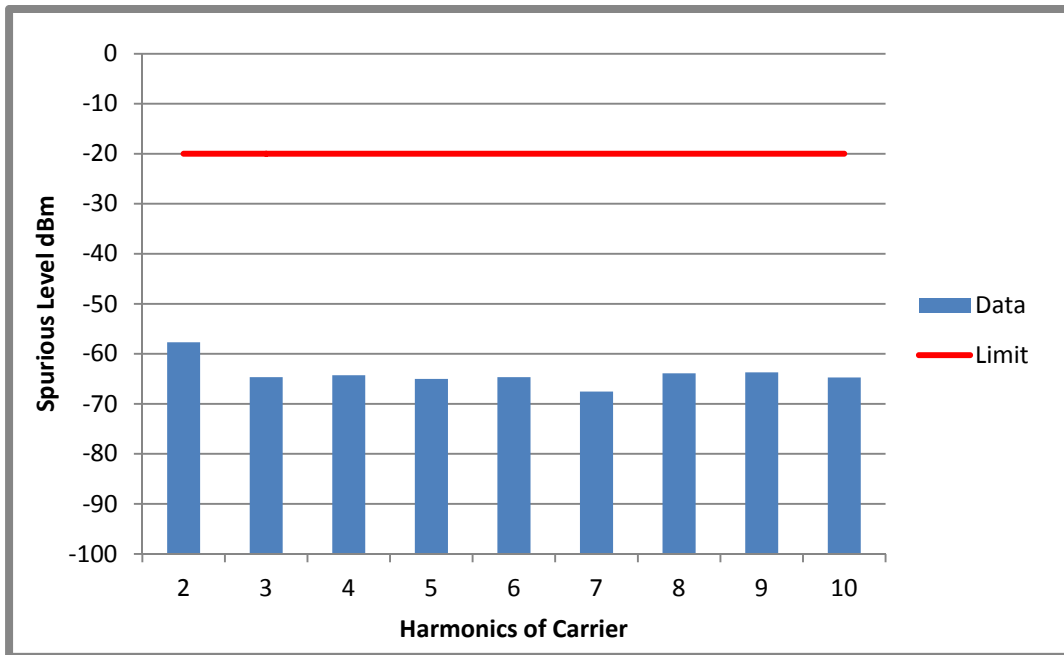


Figure 6F-12: 1 Watt Harmonic of Carrier 173.9875 MHz, 12.5 kHz Channel Spacing

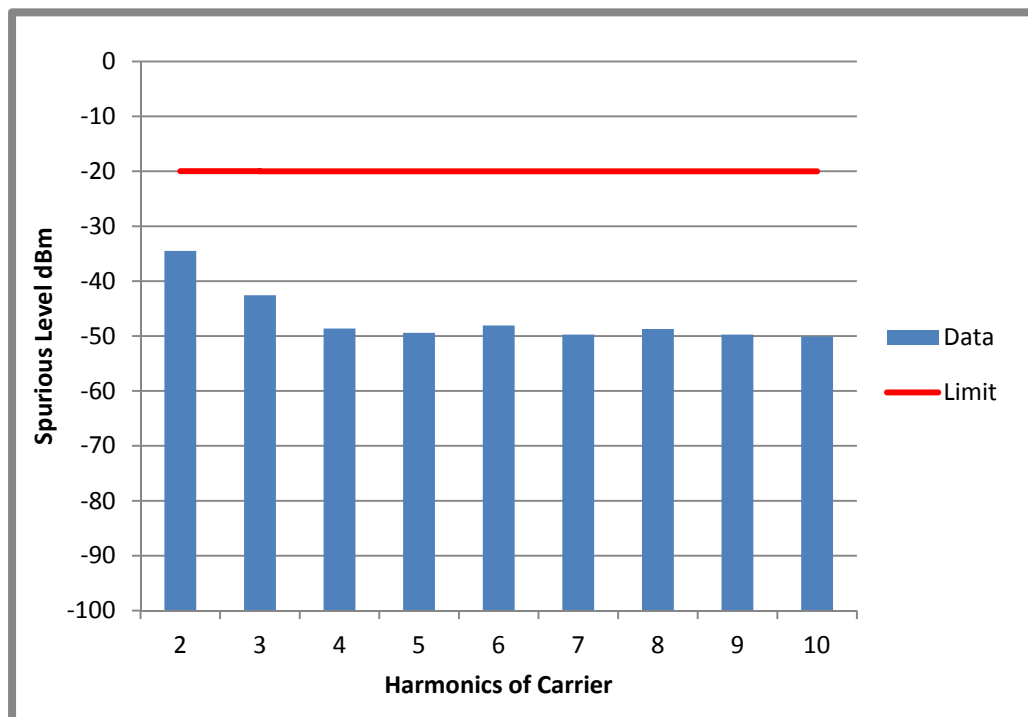
PHASE II (TDMA) MODE

Figure 6F-13: 60 Watt Harmonic of Carrier 136.0125 MHz, 12.5 kHz Channel Spacing (Not for FCC Review)

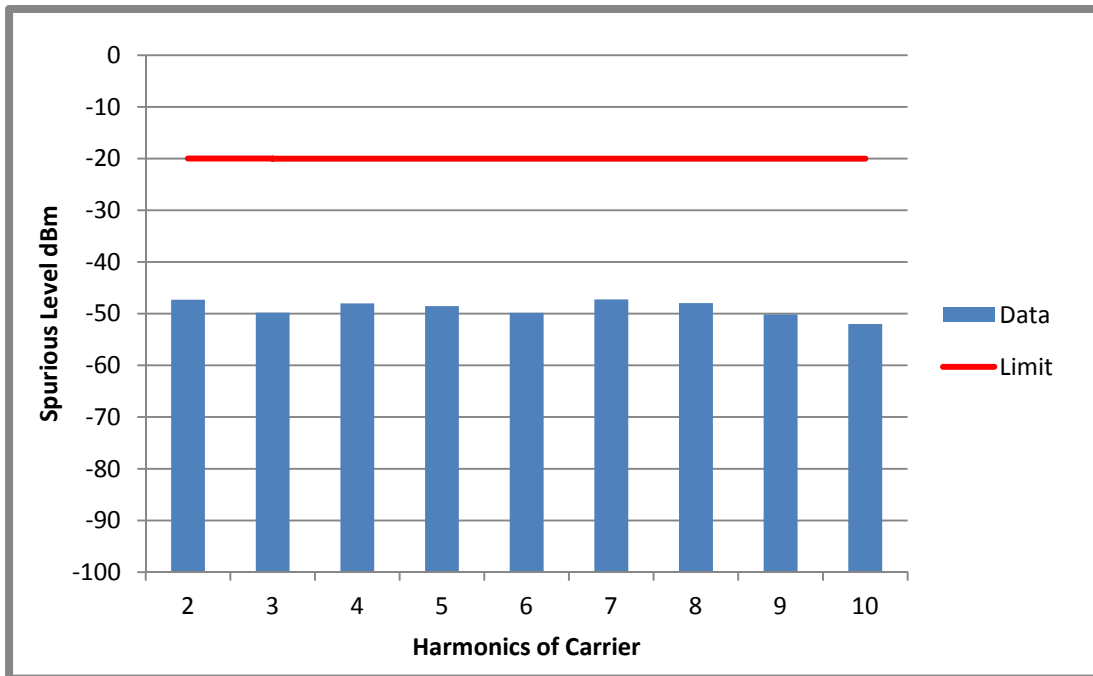


Figure 6F-14: 60 Watt Harmonic of Carrier 154.9875 MHz, 12.5 kHz Channel Spacing

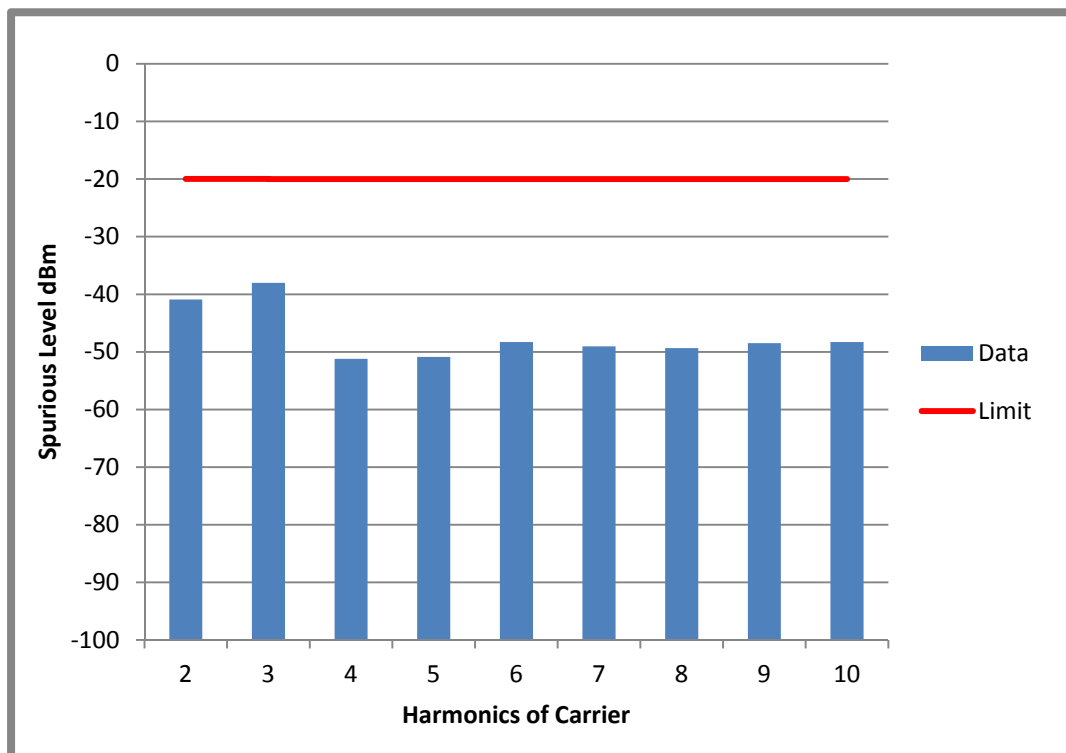


Figure 6F-15: 60 Watt Harmonic of Carrier 173.9875 MHz, 12.5 kHz Channel Spacing

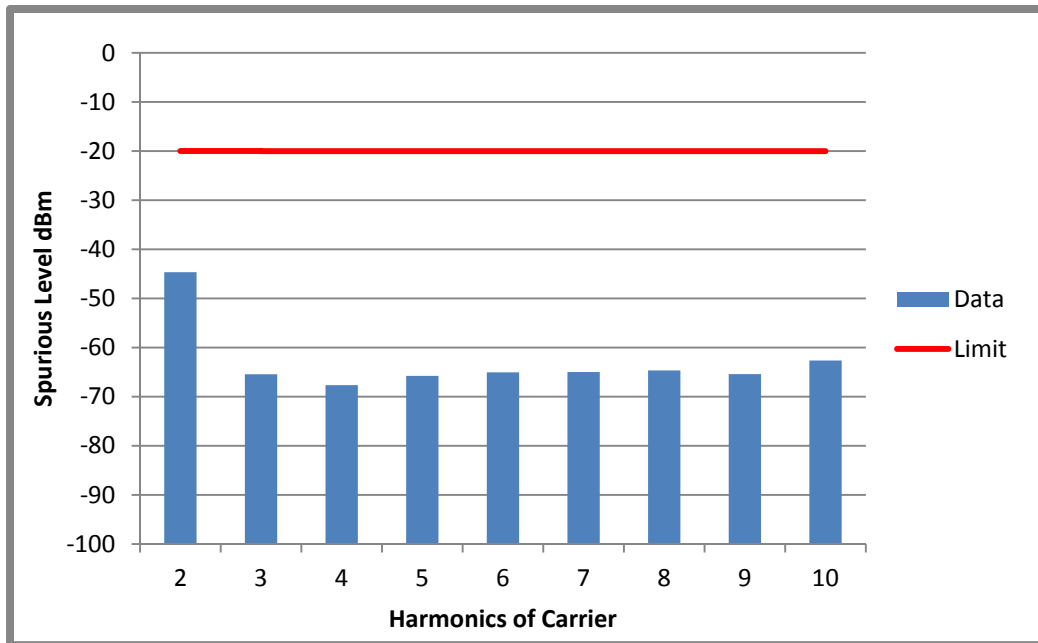


Figure 6F-16: 1 Watt Harmonic of Carrier 136.0125 MHz, 12.5 kHz Channel Spacing (Not for FCC Review)

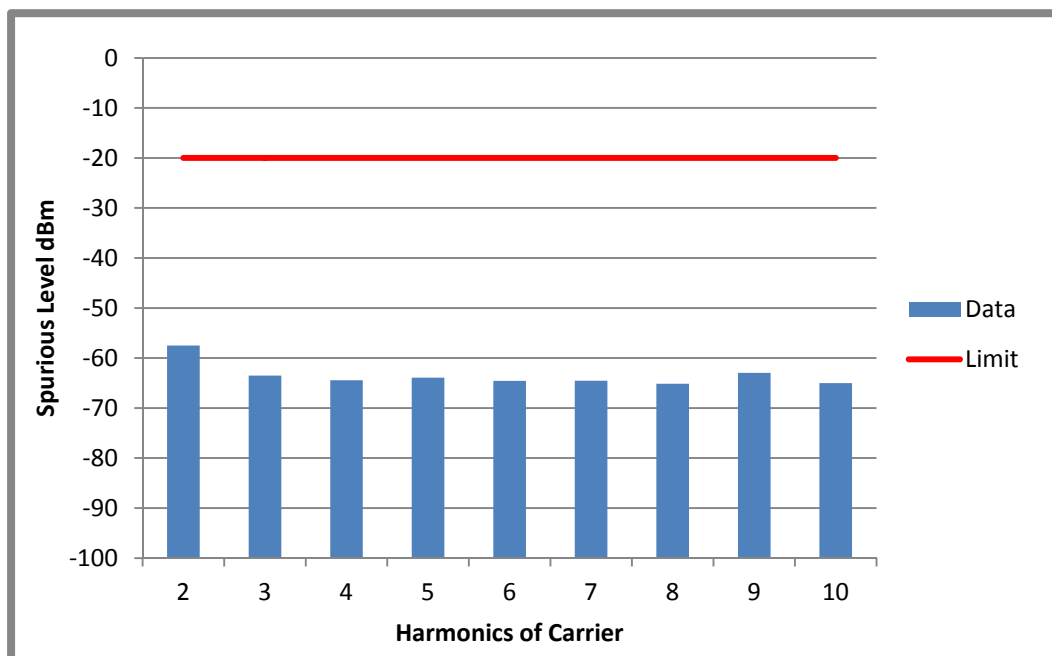


Figure 6F-17: 1 Watt Harmonic of Carrier 154.9875 MHz, 12.5 kHz Channel Spacing

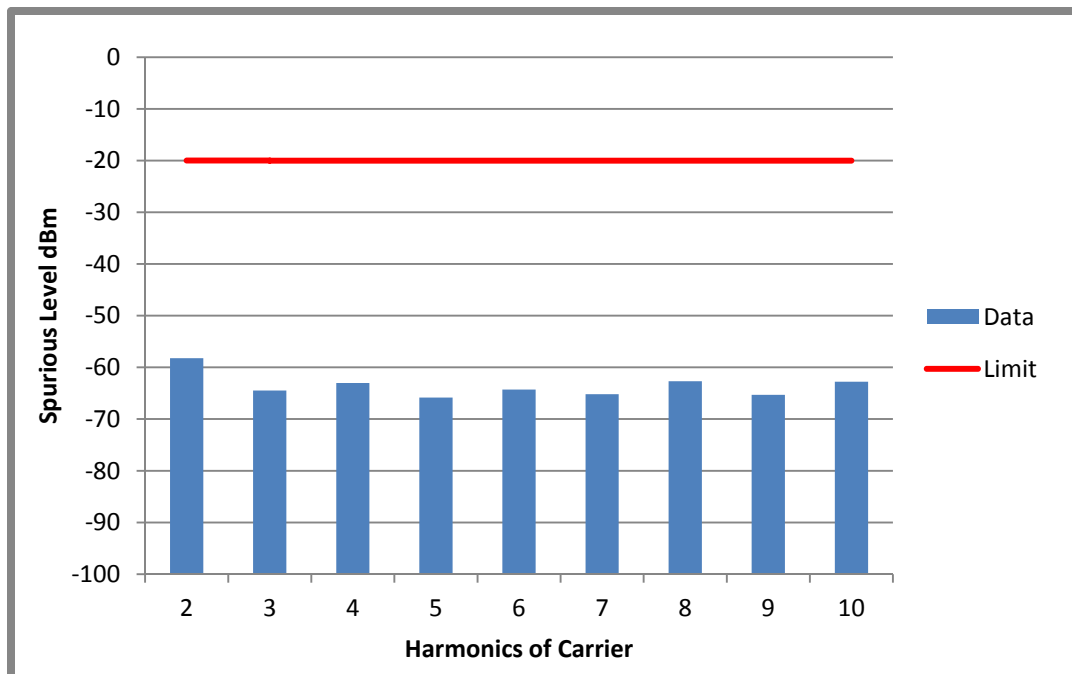


Figure 6F-18: 1 Watt Harmonic of Carrier 173.9875 MHz, 12.5 kHz Channel Spacing

EXHIBIT 6G**Radiated Spurious Emissions** - Pursuant 47 CFR 2.1051 and 2.1033(c)(13)**ANALOG MODE**

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Antenna Polarity (H/V)	Antenna Height (cm)	Angle (degrees)	Correction Factor (dB)	Spurious ERP (dBm)	Limit (dBm)	Margin (dB)
Noise Floor								

Note: All spurious emissions were attenuated below the limits and the noise floor of the measurement equipment.

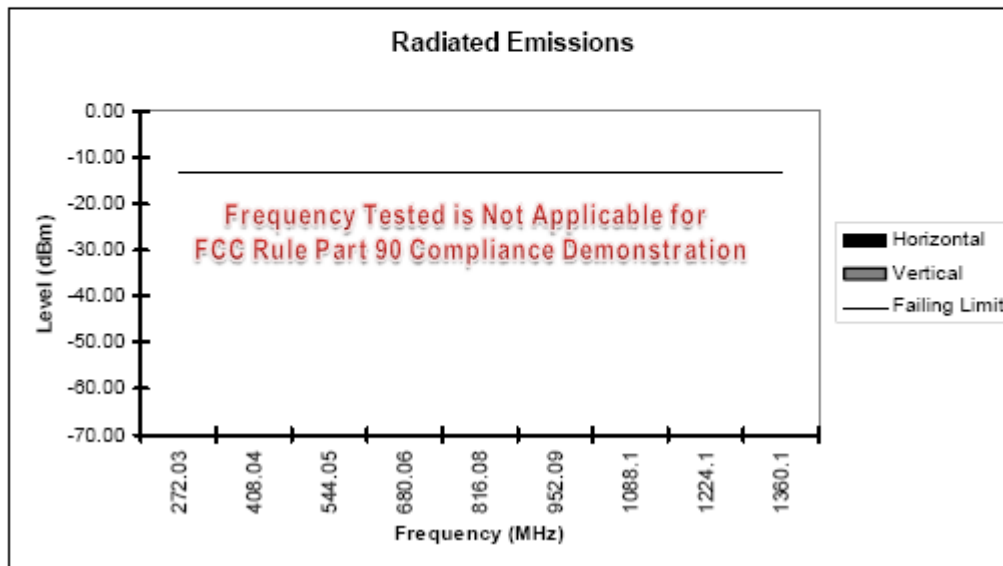


Figure 6G-1: 60W, 136.0125 MHz, 25 kHz Channel Spacing (Not for FCC Review)

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Antenna Polarity (H/V)	Antenna Height (cm)	Angle (degrees)	Correction Factor (dB)	Spurious ERP (dBm)	Limit (dBm)	Margin (dB)
464.9625	-67.35	H	100	197	-2.58	-69.93	-13.00	56.93
1239.9	-55.15	V	100	171	-13.61	-68.76	-13.00	55.76

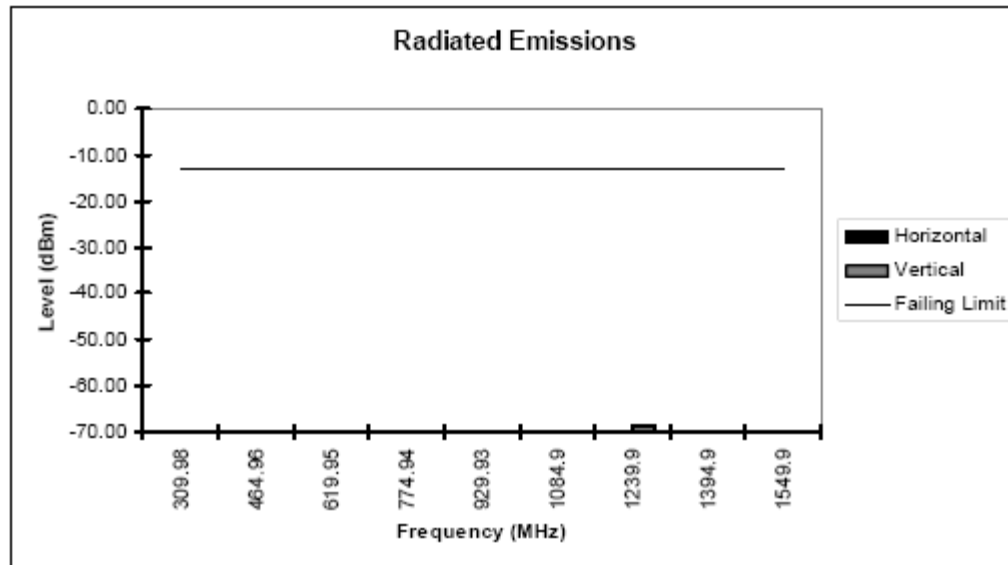


Figure 6G-2: 60W, 154.9875 MHz, 25 kHz Channel Spacing (Not for FCC Review)

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Antenna Polarity (H/V)	Antenna Height (cm)	Angle (degrees)	Correction Factor (dB)	Spurious ERP (dBm)	Limit (dBm)	Margin (dB)
346.775	-56.55	H	129	188	-4.33	-60.88	-13.00	47.88
346.775	-62.35	V	100	92	-2.13	-64.48	-13.00	51.48

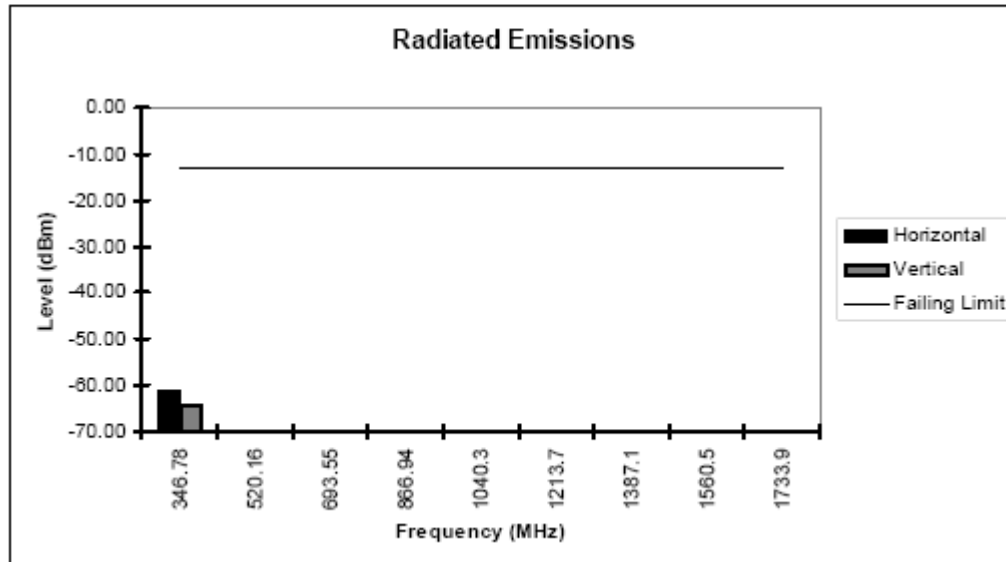


Figure 6G-3: 60W, 173.9875 MHz, 25 kHz Channel Spacing (Not for FCC Review)

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Antenna Polarity (H/V)	Antenna Height (cm)	Angle (degrees)	Correction Factor (dB)	Spurious ERP (dBm)	Limit (dBm)	Margin (dB)
Noise Floor								

Note: All spurious emissions were attenuated below the limits and the noise floor of the measurement equipment.

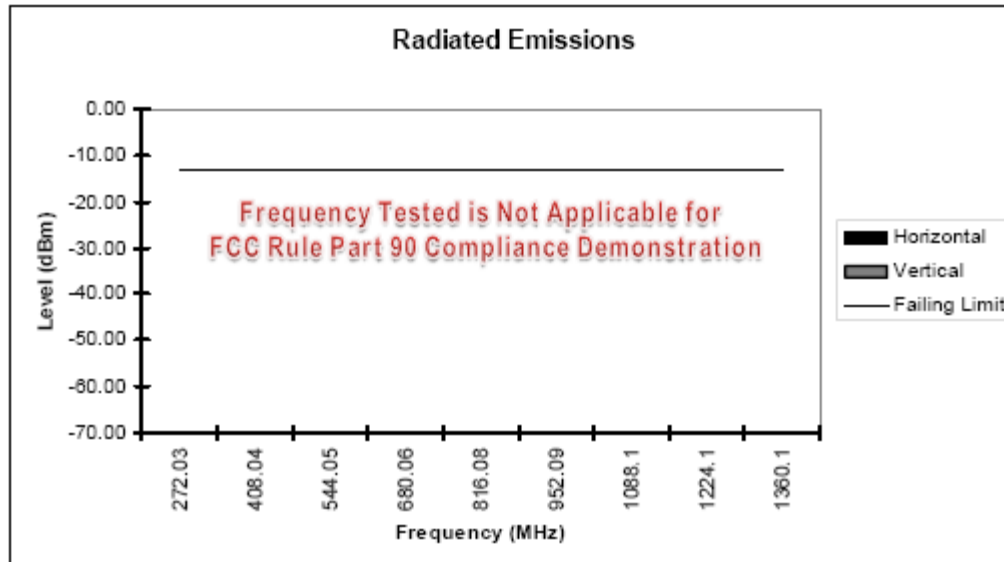


Figure 6G-4: 1W, 136.0125 MHz, 25 kHz Channel Spacing (Not for FCC Review)

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Antenna Polarity (H/V)	Antenna Height (cm)	Angle (degrees)	Correction Factor (dB)	Spurious ERP (dBm)	Limit (dBm)	Margin (dB)
Noise Floor								

Note: All spurious emissions were attenuated below the limits and the noise floor of the measurement equipment.

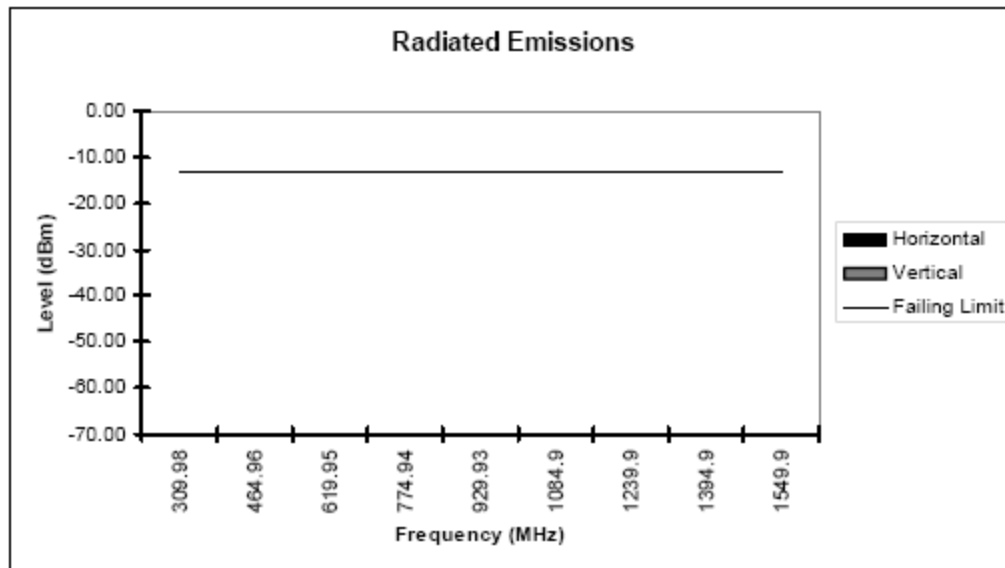


Figure 6G-5: 1W, 154.9875 MHz, 25 kHz Channel Spacing (Not for FCC Review)

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Antenna Polarity (H/V)	Antenna Height (cm)	Angle (degrees)	Correction Factor (dB)	Spurious ERP (dBm)	Limit (dBm)	Margin (dB)
Noise Floor								

Note: All spurious emissions were attenuated below the limits and the noise floor of the measurement equipment.

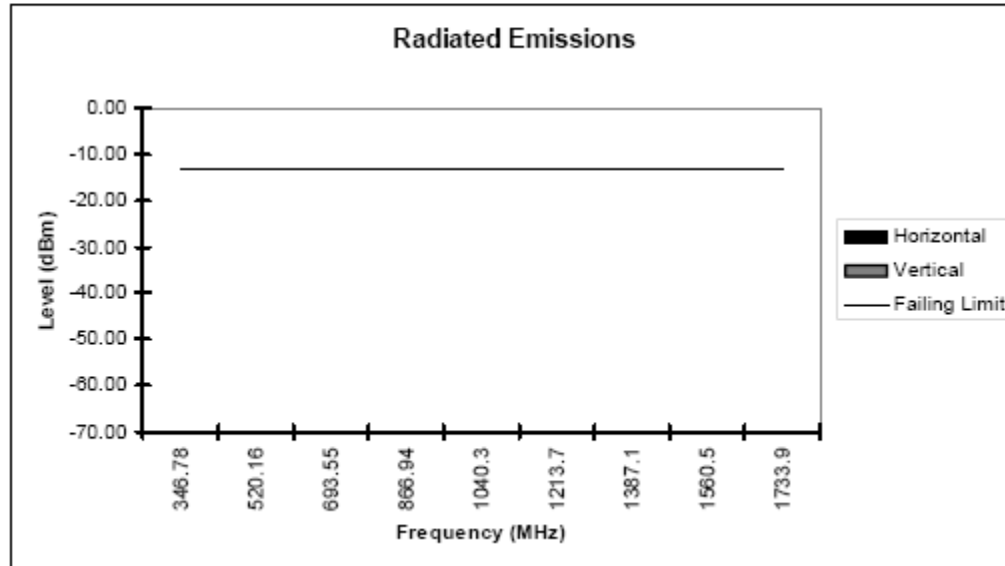
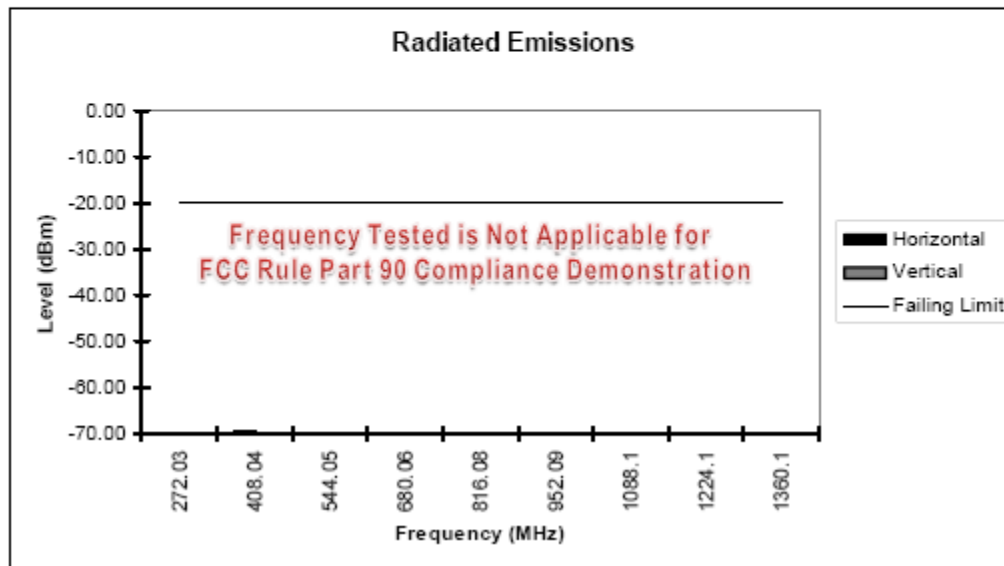


Figure 6G-6: 1W, 173.9875 MHz, 25 kHz Channel Spacing (Not for FCC Review)

APCO DIGITAL MODE

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Antenna Polarity (H/V)	Antenna Height (cm)	Angle (degrees)	Correction Factor (dB)	Spurious ERP (dBm)	Limit (dBm)	Margin (dB)
408.0375	-67.35	H	100	130	-1.96	-69.31	-20.00	49.31
1224.1125	-55.85	V	100	172	-14.71	-70.56	-20.00	50.56

**Figure 6G-7:** 60W, 136.0125 MHz, 12.5 kHz Channel Spacing (Not for FCC Review)

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Antenna Polarity (H/V)	Antenna Height (cm)	Angle (degrees)	Correction Factor (dB)	Spurious ERP (dBm)	Limit (dBm)	Margin (dB)
Noise Floor								

Note: All spurious emissions were attenuated below the limits and the noise floor of the measurement equipment.

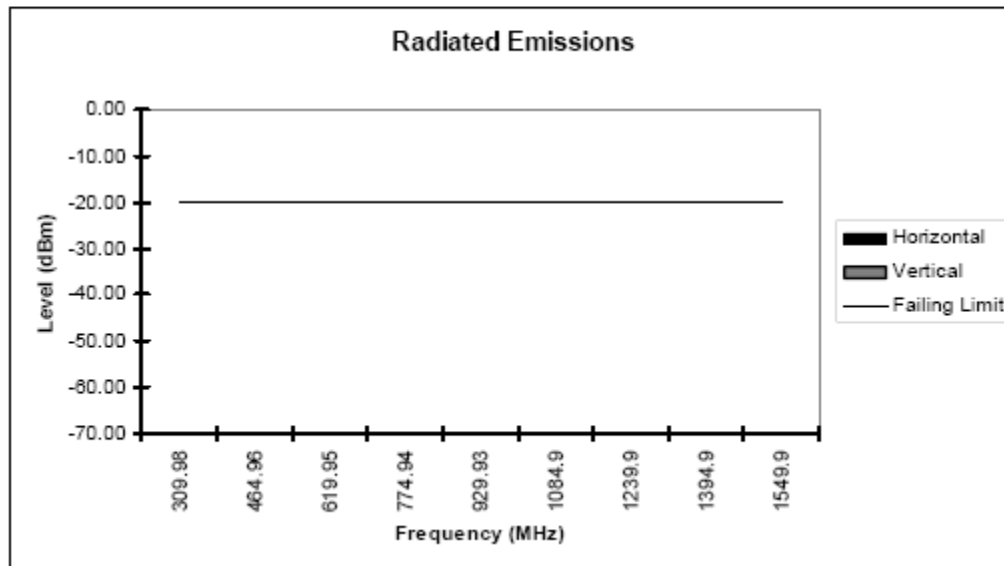


Figure 6G-8: 60W, 154.9875 MHz, 12.5 kHz Channel Spacing

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Antenna Polarity (H/V)	Antenna Height (cm)	Angle (degrees)	Correction Factor (dB)	Spurious ERP (dBm)	Limit (dBm)	Margin (dB)
346.775	-57.15	H	129	137	-4.08	-61.23	-20.00	41.23
346.775	-61.75	V	111	96	-1.63	-63.38	-20.00	43.38

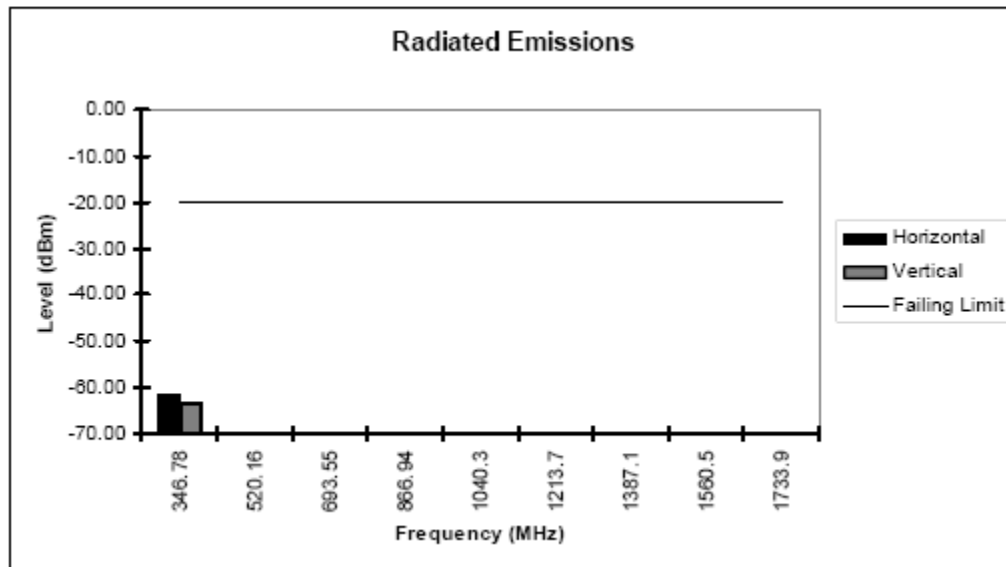


Figure 6G-9: 60W, 173.9875 MHz, 12.5 kHz Channel Spacing

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Antenna Polarity (H/V)	Antenna Height (cm)	Angle (degrees)	Correction Factor (dB)	Spurious ERP (dBm)	Limit (dBm)	Margin (dB)
Noise Floor								

Note: All spurious emissions were attenuated below the limits and the noise floor of the measurement equipment.

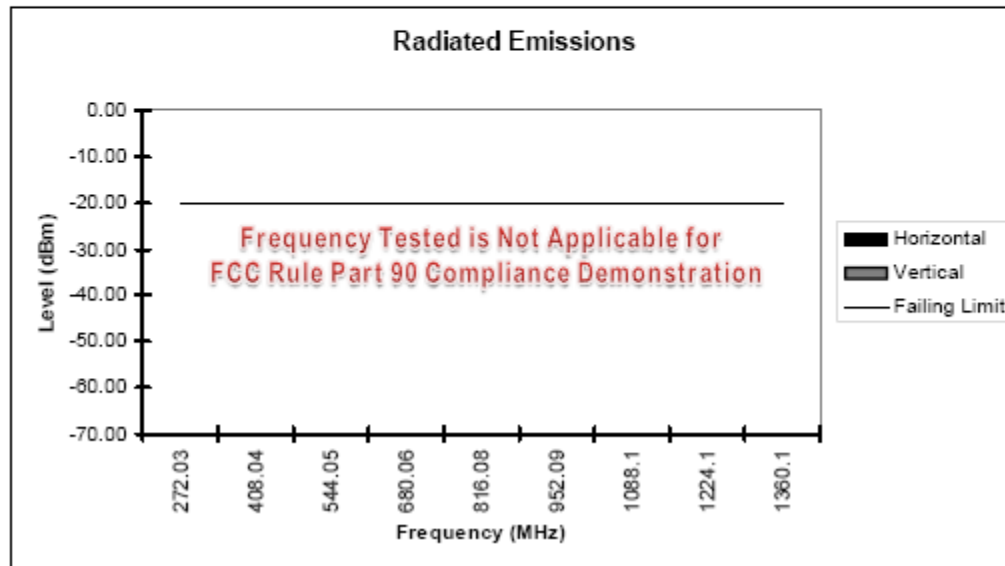


Figure 6G-10: 1W, 136.0125 MHz, 12.5 kHz Channel Spacing (Not for FCC Review)

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Antenna Polarity (H/V)	Antenna Height (cm)	Angle (degrees)	Correction Factor (dB)	Spurious ERP (dBm)	Limit (dBm)	Margin (dB)
Noise Floor								
Note: All spurious emissions were attenuated below the limits and the noise floor of the measurement equipment.								

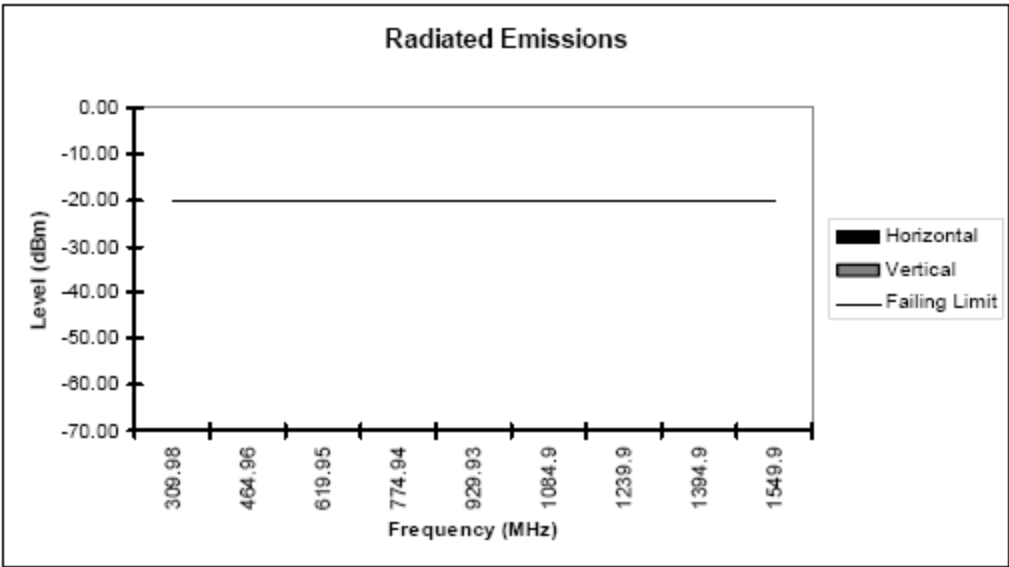


Figure 6G-11: 1W, 154.9875 MHz, 12.5 kHz Channel Spacing

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Antenna Polarity (H/V)	Antenna Height (cm)	Angle (degrees)	Correction Factor (dB)	Spurious ERP (dBm)	Limit (dBm)	Margin (dB)
Noise Floor								

Note: All spurious emissions were attenuated below the limits and the noise floor of the measurement equipment.

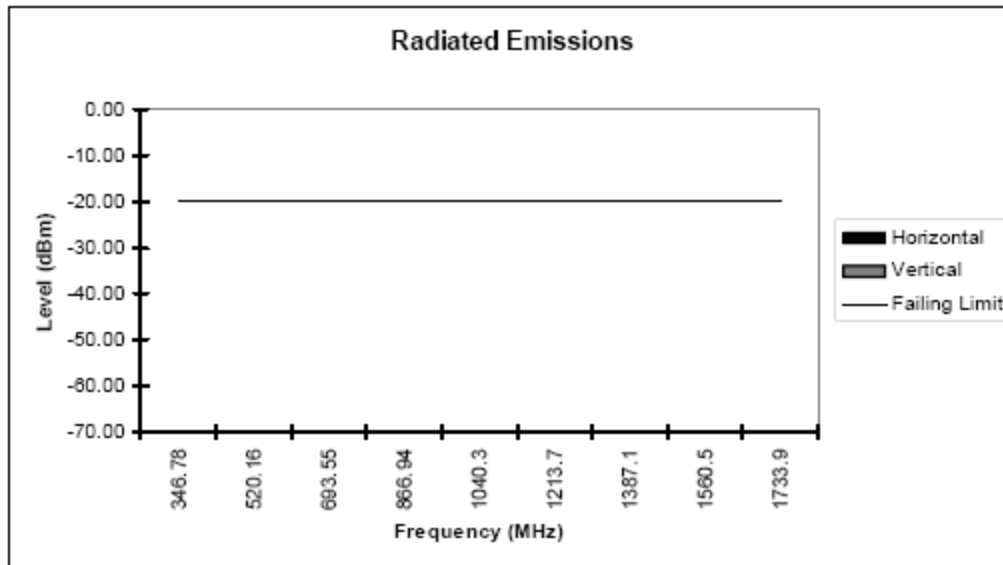


Figure 6G-12: 1W, 173.9875 MHz, 12.5 kHz Channel Spacing

PHASE II (TDMA) MODE

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Antenna Polarity (H/V)	Antenna Height (cm)	Angle (degrees)	Correction Factor (dB)	Spurious ERP (dBm)	Limit (dBm)	Margin (dB)
Noise Floor								

Note: All spurious emissions were attenuated below the limits and the noise floor of the measurement equipment.

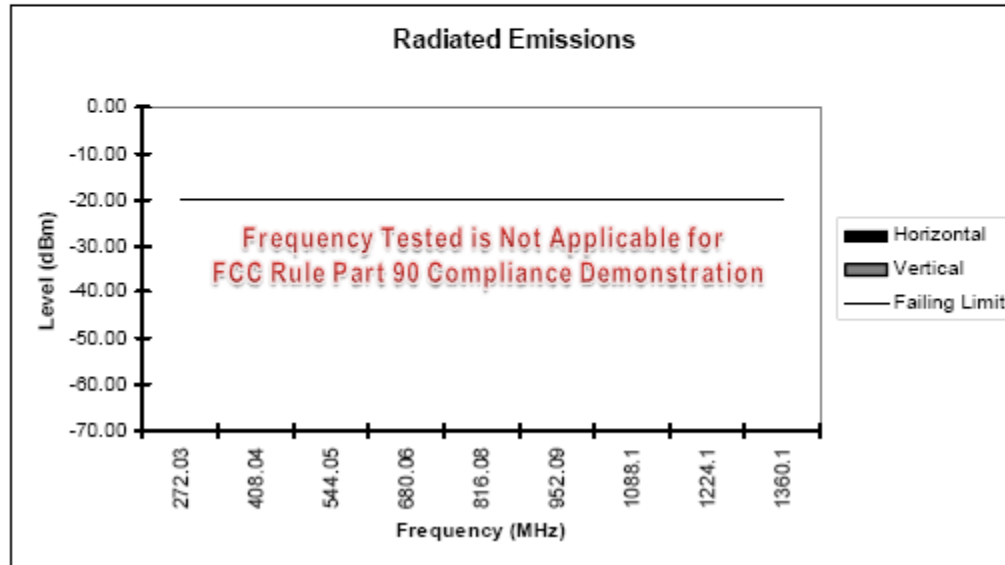


Figure 6G-13: 60W, 136.0125 MHz, 12.5 kHz Channel Spacing (Not for FCC Review)

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Antenna Polarity (H/V)	Antenna Height (cm)	Angle (degrees)	Correction Factor (dB)	Spurious ERP (dBm)	Limit (dBm)	Margin (dB)
Noise Floor								
Note: All spurious emissions were attenuated below the limits and the noise floor of the measurement equipment.								

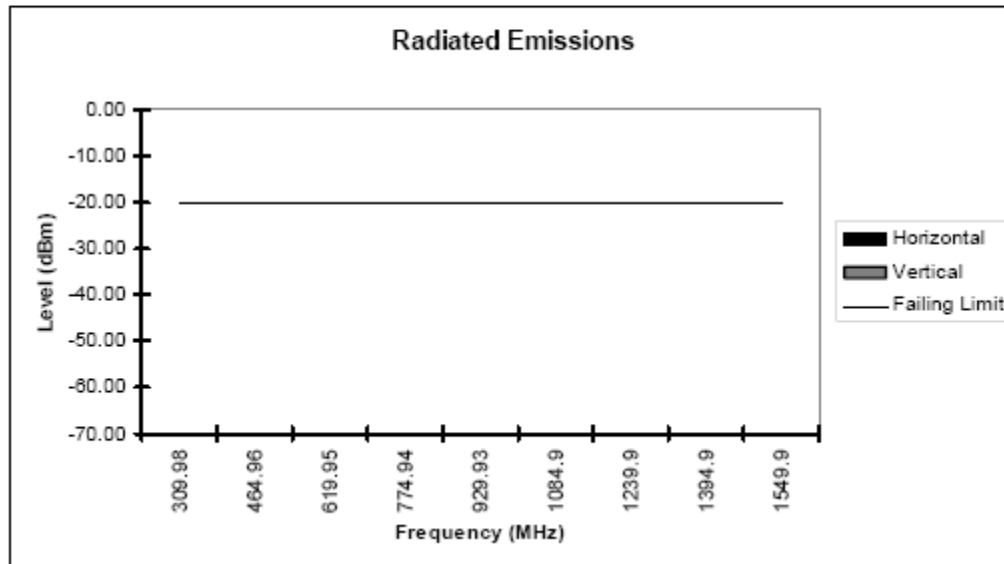


Figure 6G-14: 60W, 154.9875 MHz, 12.5 kHz Channel Spacing

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Antenna Polarity (H/V)	Antenna Height (cm)	Angle (degrees)	Correction Factor (dB)	Spurious ERP (dBm)	Limit (dBm)	Margin (dB)
346.775	-59.30	H	124	137	-4.43	-63.73	-20.00	43.73
346.775	-62.90	V	100	105	-1.93	-64.83	-20.00	44.83

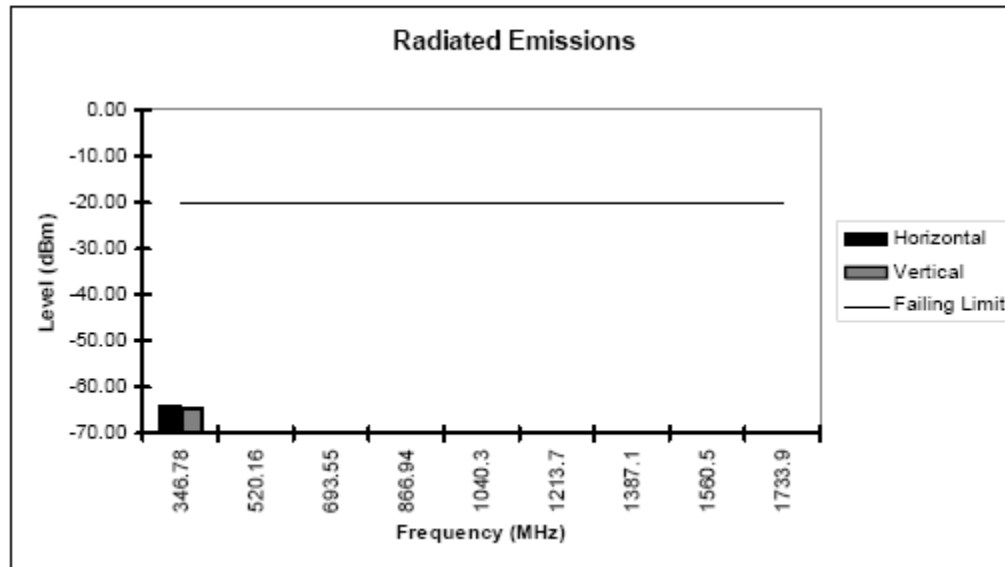


Figure 6G-15: 60W, 173.9875 MHz, 12.5 kHz Channel Spacing

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Antenna Polarity (H/V)	Antenna Height (cm)	Angle (degrees)	Correction Factor (dB)	Spurious ERP (dBm)	Limit (dBm)	Margin (dB)
Noise Floor								

Note: All spurious emissions were attenuated below the limits and the noise floor of the measurement equipment.

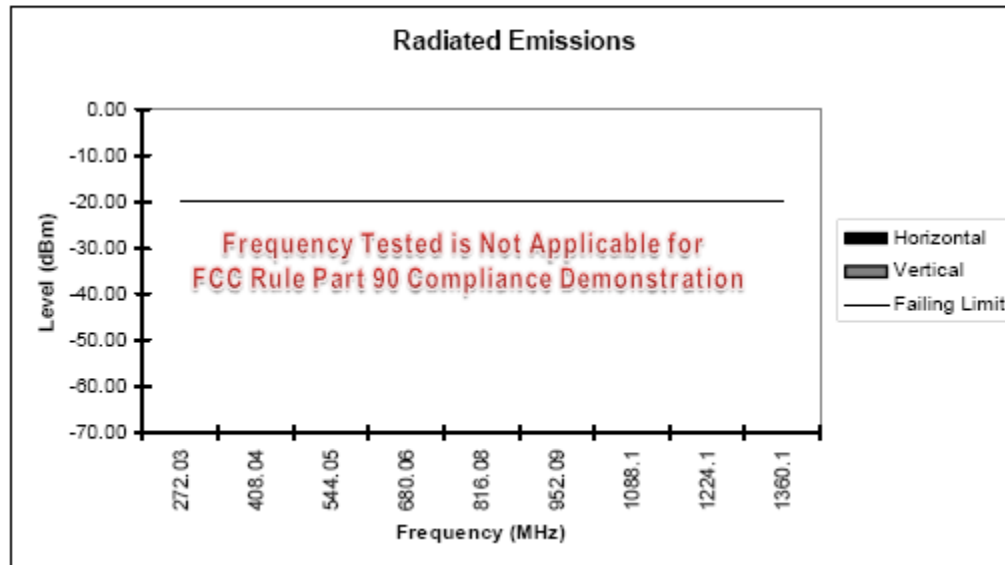


Figure 6G-16: 1W, 136.0125 MHz, 12.5 kHz Channel Spacing (Not for FCC Review)

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Antenna Polarity (H/V)	Antenna Height (cm)	Angle (degrees)	Correction Factor (dB)	Spurious ERP (dBm)	Limit (dBm)	Margin (dB)
Noise Floor								

Note: All spurious emissions were attenuated below the limits and the noise floor of the measurement equipment.

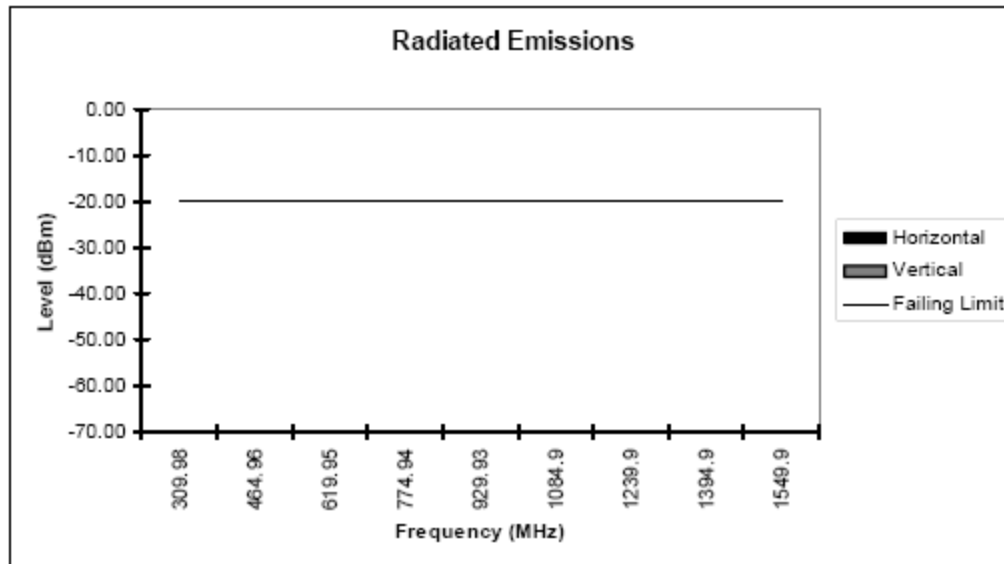


Figure 6G-17: 1W, 154.9875 MHz, 12.5 kHz Channel Spacing

Frequency (MHz)	Spectrum Analyzer Level (dBm)	Antenna Polarity (H/V)	Antenna Height (cm)	Angle (degrees)	Correction Factor (dB)	Spurious ERP (dBm)	Limit (dBm)	Margin (dB)
Noise Floor								

Note: All spurious emissions were attenuated below the limits and the noise floor of the measurement equipment.

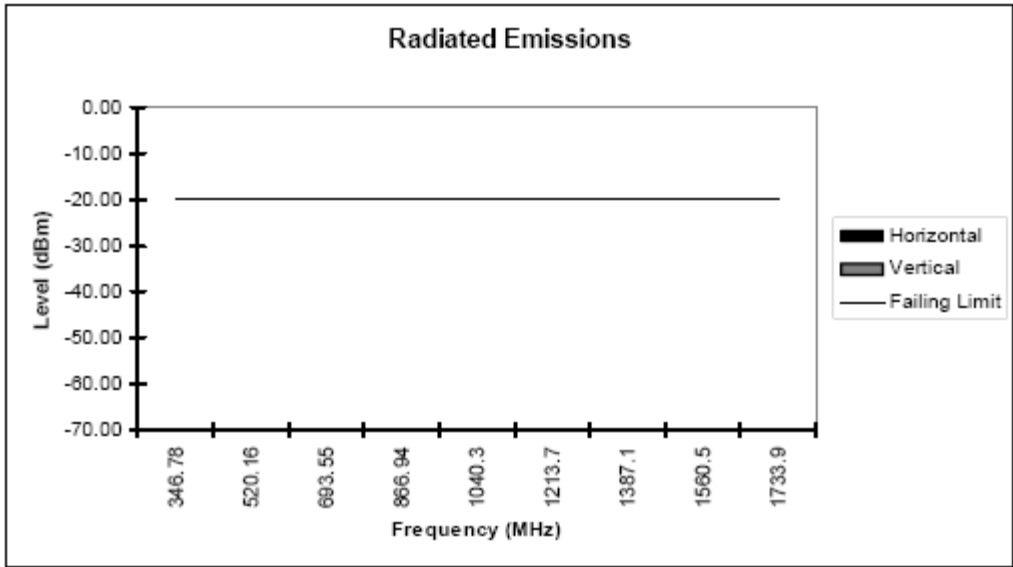


Figure 6G-18: 1W, 173.9875 MHz, 12.5 kHz Channel Spacing

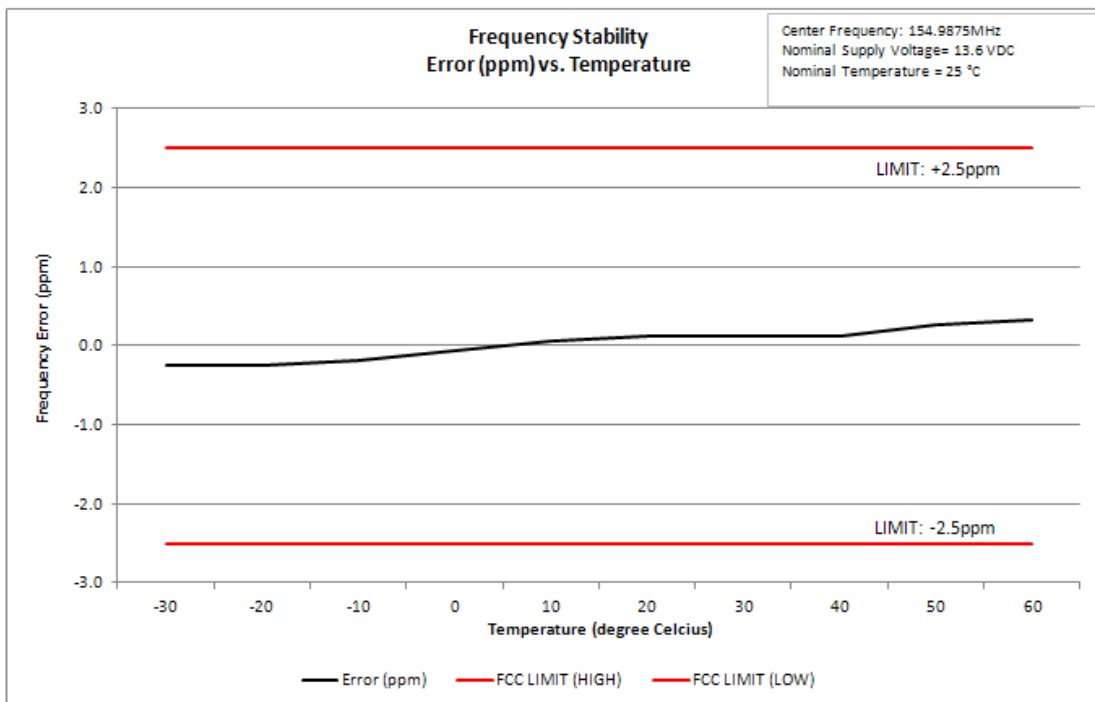
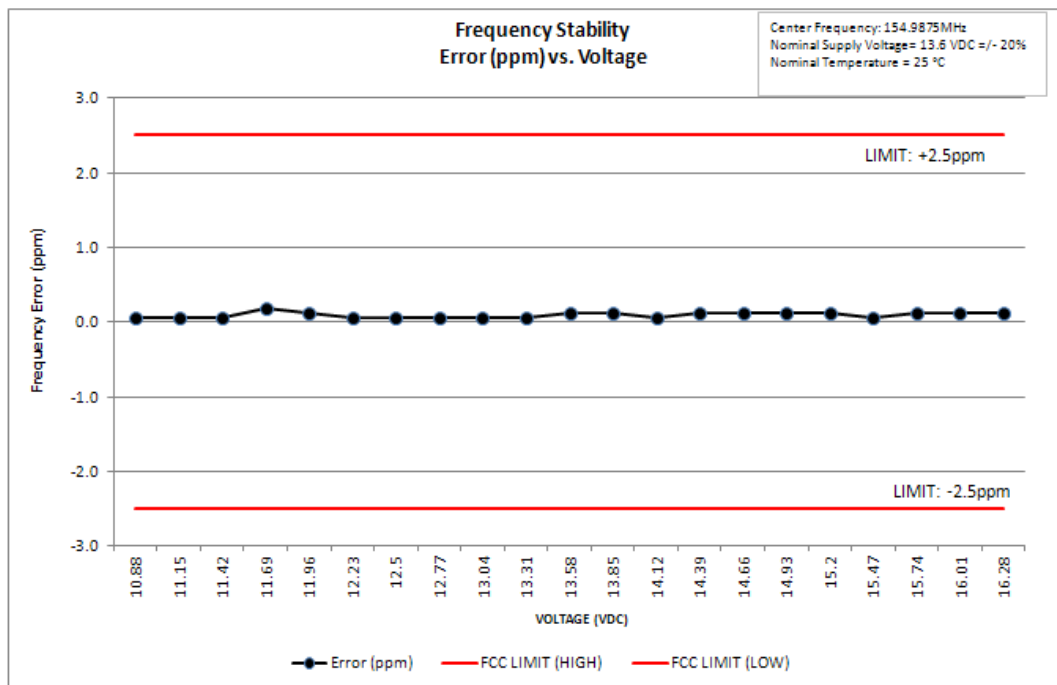
EXHIBIT 6H**Frequency Stability** - Pursuant 47 CFR 90.213, 90.539, 2.1055 and 2.1033(c)(13)**Figure 6H-1:** Frequency Stability vs. Temperature, 154.9875MHz, -30°C to 60°C**Figure 6H-2:** Frequency Stability vs. Supply Voltage Change, 154.9875MHz

EXHIBIT 6I

Transient Frequency Behavior - Pursuant 47 CFR 90.214

Analog Mode

Figure 6I-1: Transient Frequency Behavior. 154.9875 MHz, 12.5 kHz Channel Spacing, Key-up Transient

Figure 6I-2: Transient Frequency Behavior. 154.9875 MHz, 12.5 kHz Channel Spacing, De-Key Transient

Figure 6I-3: Transient Frequency Behavior. 154.9875 MHz, 25 kHz Channel Spacing, Key-up Transient
(Not for FCC Review)

Figure 6I-4: Transient Frequency Behavior. 154.9875 MHz, 25 kHz Channel Spacing, De-Key Transient
(Not for FCC Review)