# EXHIBIT 6

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**EXHIBIT 6J -** 1559-1610 MHz Emissions (GNSS)

**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 =764.0125 MHz:**

| | |
|---|---|
| Output RF power | 2 Watts |
| DC Voltage | 13.6 Volts |
| DC Current | 2.9 A |

**Frequency =769.0875 MHz:**

| | |
|---|---|
| Output RF power | 2 Watts |
| DC Voltage | 13.6 Volts |
| DC Current | 2.7 A |
| Output RF power | 18 Watts |
| DC Voltage | 13.6 Volts |
| DC Current | 6.23 A |
| Output RF power | 36 Watts |
| DC Voltage | 13.6 Volts |
| DC Current | 8.52 A |

**Frequency =814.9875 MHz:**

| | |
|---|---|
| Output RF power | 2 Watts |
| DC Voltage | 13.6 Volts |
| DC Current | 2.2 A |
| Output RF power | 21 Watts |
| DC Voltage | 13.6 Volts |
| DC Current | 5.46 A |
| Output RF power | 42 Watts |
| DC Voltage | 13.6 Volts |
| DC Current | 8.05 A |

**Frequency =868.9875 MHz:**

| | |
|---|---|
| Output RF power | 2 Watts |
| DC Voltage | 13.6 Volts |
| DC Current | 2.1 A |
| Output RF power | 21 Watts |
| DC Voltage | 13.6 Volts |
| DC Current | 5.51 A |
| Output RF power | 42 Watts |
| DC Voltage | 13.6 Volts |
| DC Current | 8.21 A |

**EXHIBIT 6B**

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

**Audio Frequency Response**
(Freq: 814.9875MHz, ChSp: 12.5 kHz)

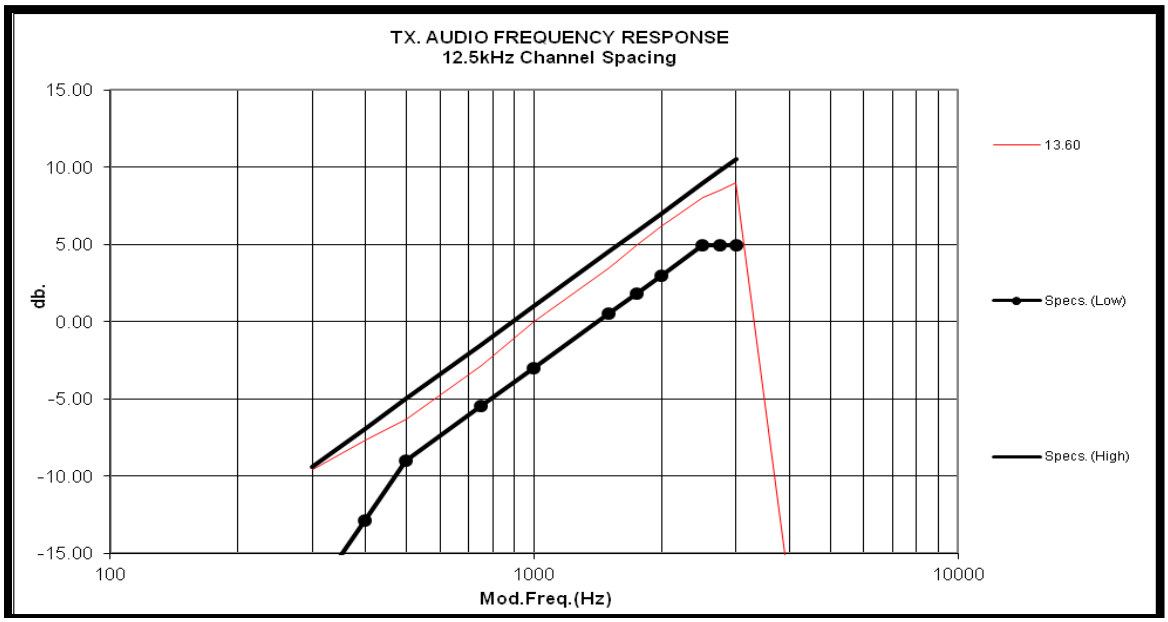



**Figure 6B-1:** 12.5 kHz Channel Spacing, 851.0125MHz

**Audio Frequency Response**
(Freq: 814.9875MHz, ChSp: 25 kHz)

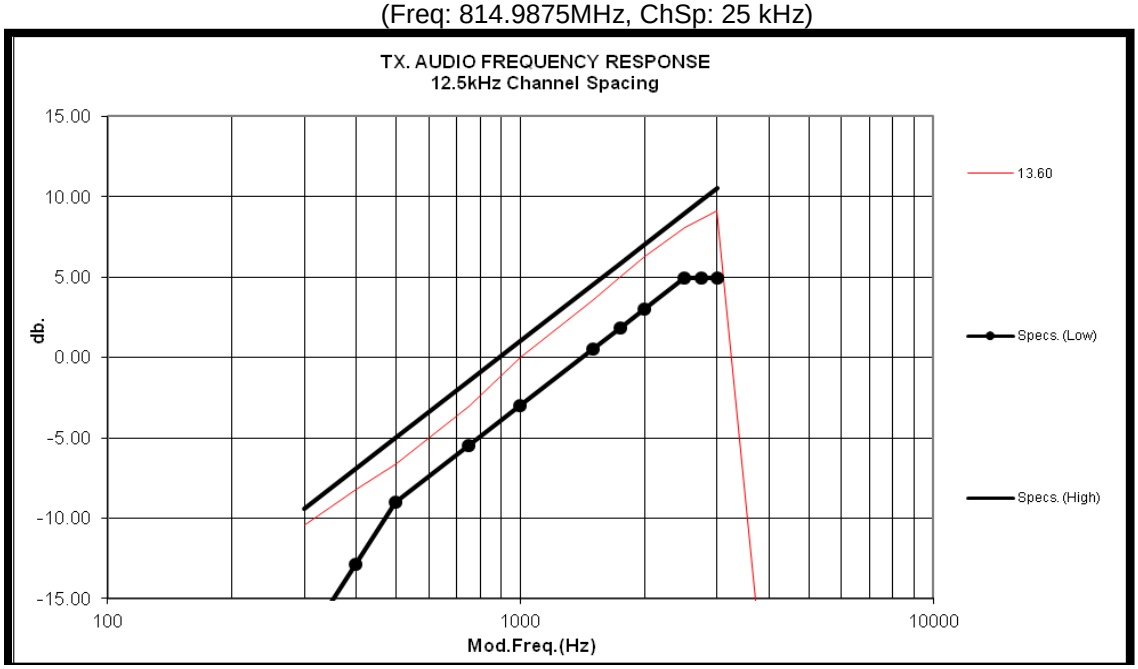



**Figure 6B-2:** 25 kHz Channel Spacing, 851.0125MHz

**EXHIBIT 6C**

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

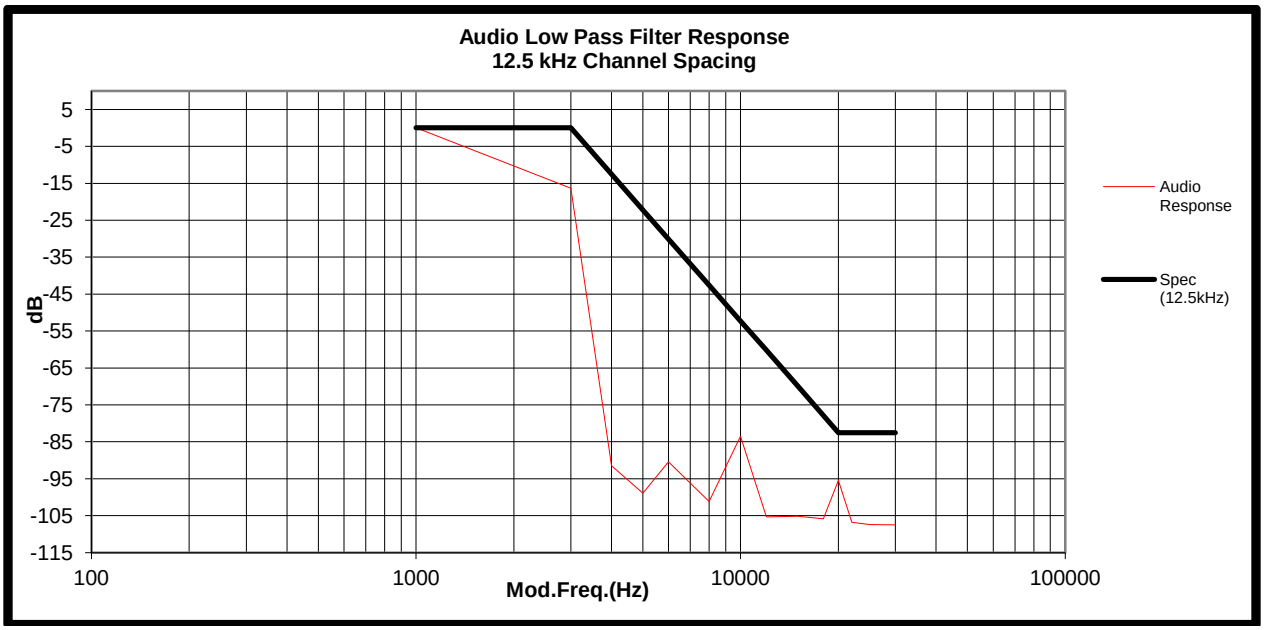



**Figure 6C-1:** 814.9875MHz, Transmit Audio Low Pass Filter Response, 12.5 kHz Channel Spacing

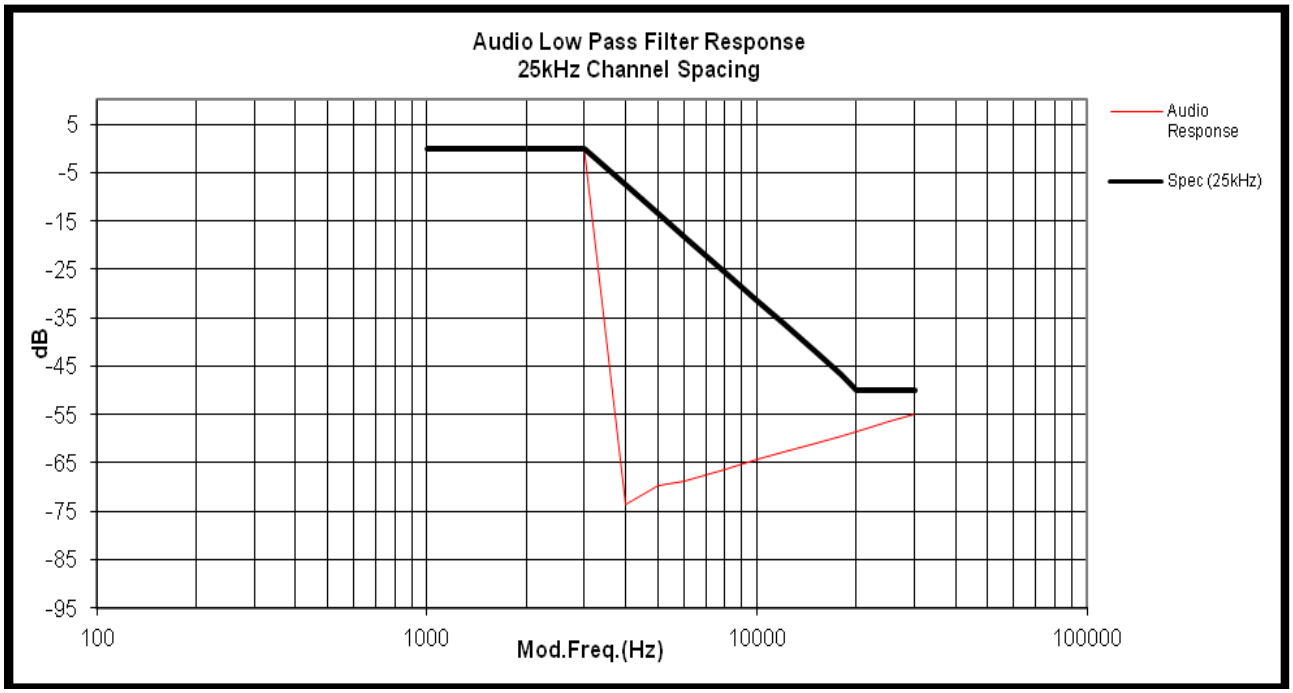



**Figure 6C-2:** 814.9875MHz, Transmit Audio Low Pass Filter Response, 25 kHz Channel Spacing

**EXHIBIT 6D**

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

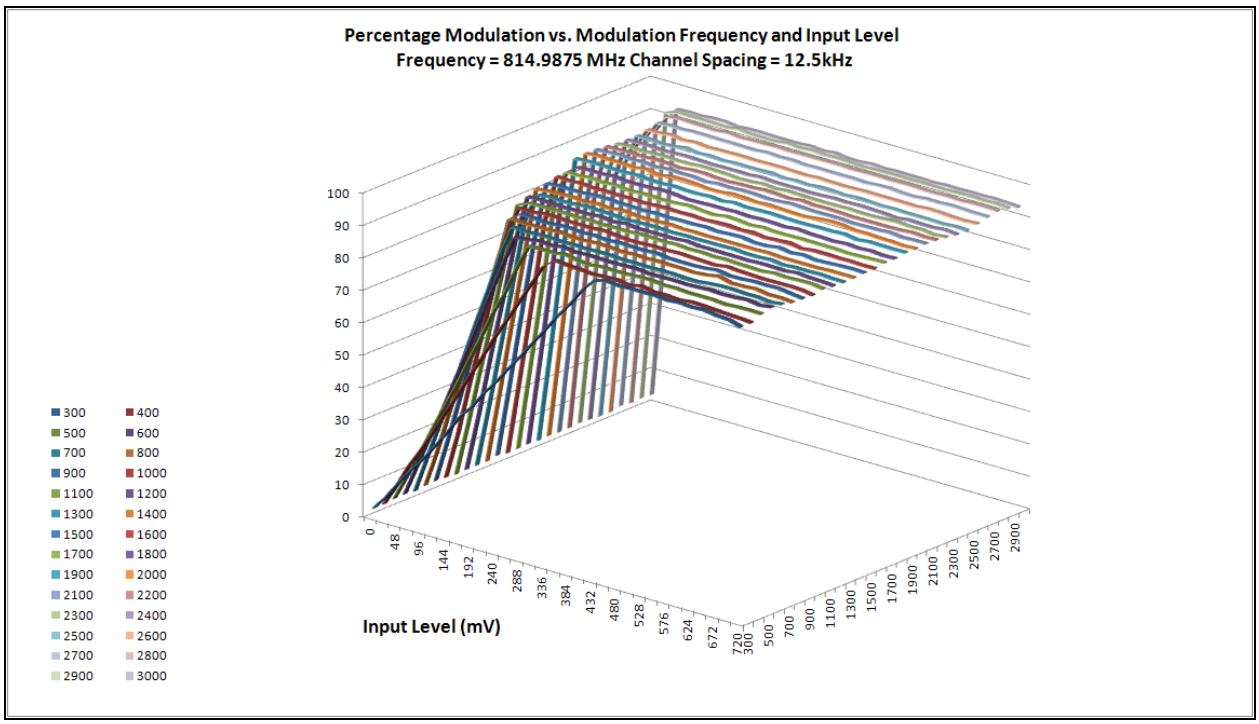



**Figure 6D-1**: The Percentage of Max. Deviation on the “Z” axis is referenced to 2.5 kHz for 12.5 kHz bandwidth

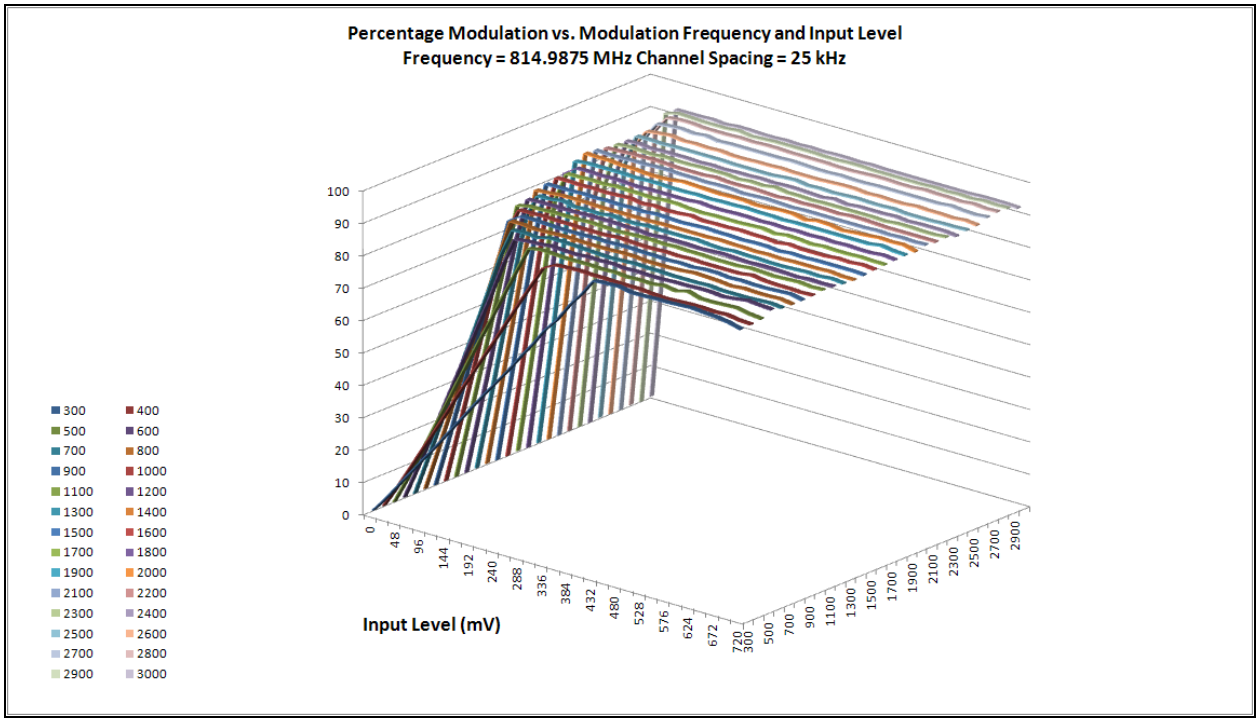



**Figure 6D-2**: The Percentage of Max. Deviation on the “Z” axis is referenced to 5.0 kHz for 25 kHz bandwidth

**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-1 and 6E-2
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 kHz + 2.5 kHz) = 11 kHz =➔ 11K0
F3E portion of the designator indicates voice.

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

EXHIBIT 6E-3 and 6E-4
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 kHz + 5 kHz) = 16 kHz =➔ 16K0
F3E portion of the designator indicates voice.

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

EXHIBIT 6E-5 and 6E-6
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-7 and 6E-8
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-9 and 6E-10
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-11 and 6E-12
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 kHz + 4.0 kHz) = 20 kHz ===> 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.

| Information Bits | Symbol | C4FM Deviation |
|---|---|---|
| 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-13 and 6E-14

Digital Modulation (12.5 kHz Channelization, APCO Digital Voice with encryption):
Emission Designator 8K0F1E

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 analog voice is 8K0F1E.

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

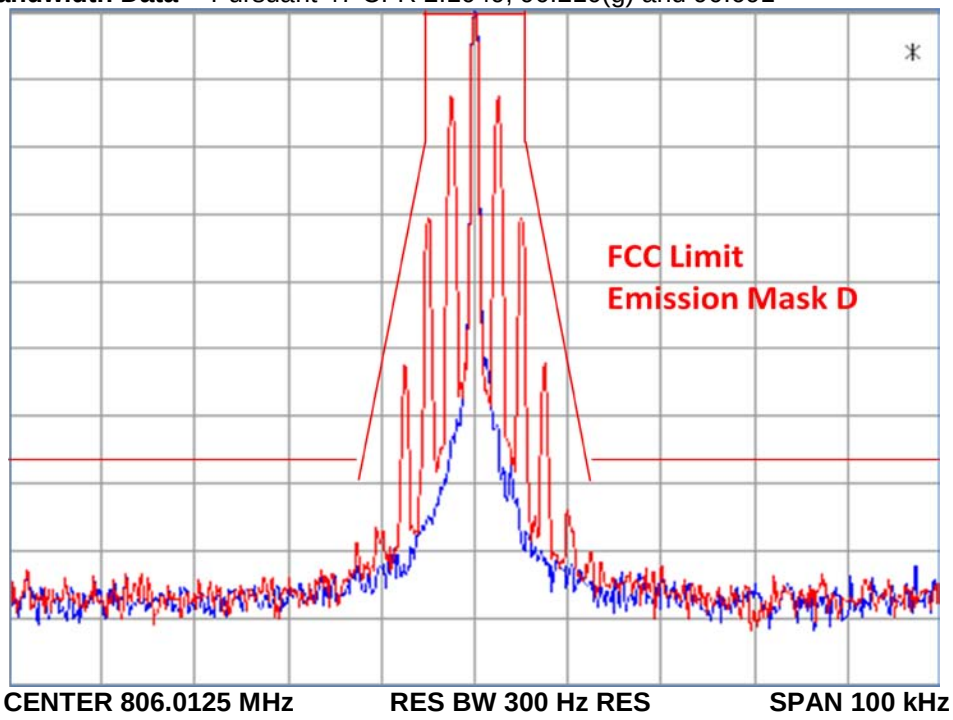



**Figure 6E-1**: 12.5 kHz Channel Spacing, 806.0125 MHz, Analog Voice, Mask D 11K0F3E

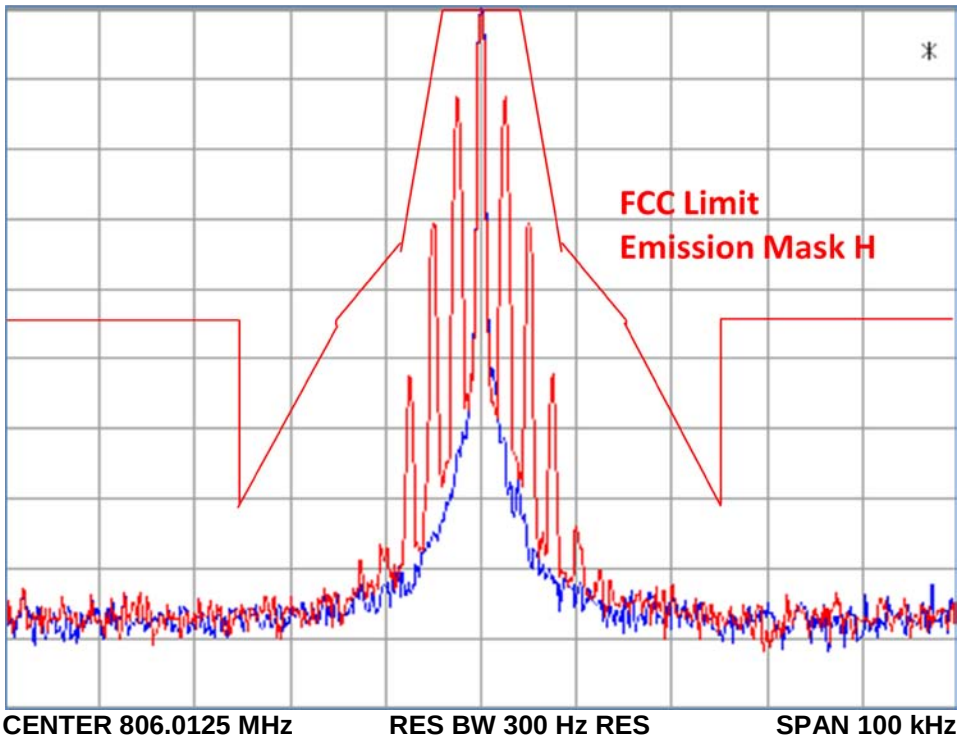



**Figure 6E-2**: 12.5 kHz Channel Spacing, 806.0125 MHz, Analog Voice, Mask H 11K0F3E

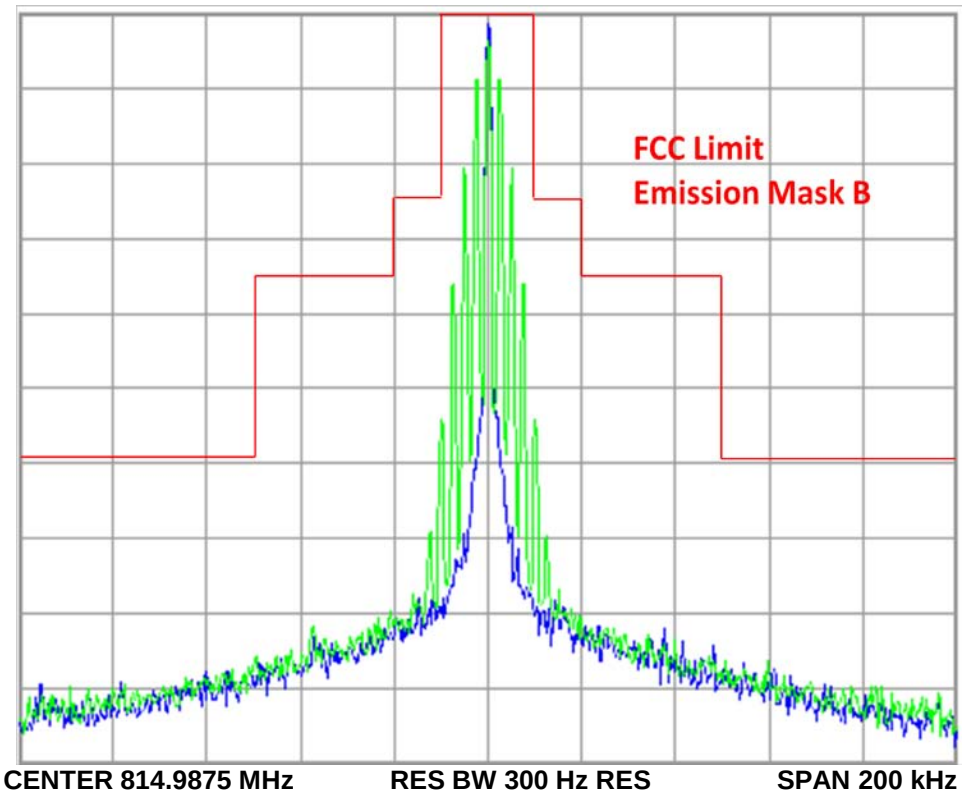



**Figure 6E-3:** 25.0 kHz Channel Spacing, 814.9875 MHz, Analog Voice, Mask B 16K0F3E

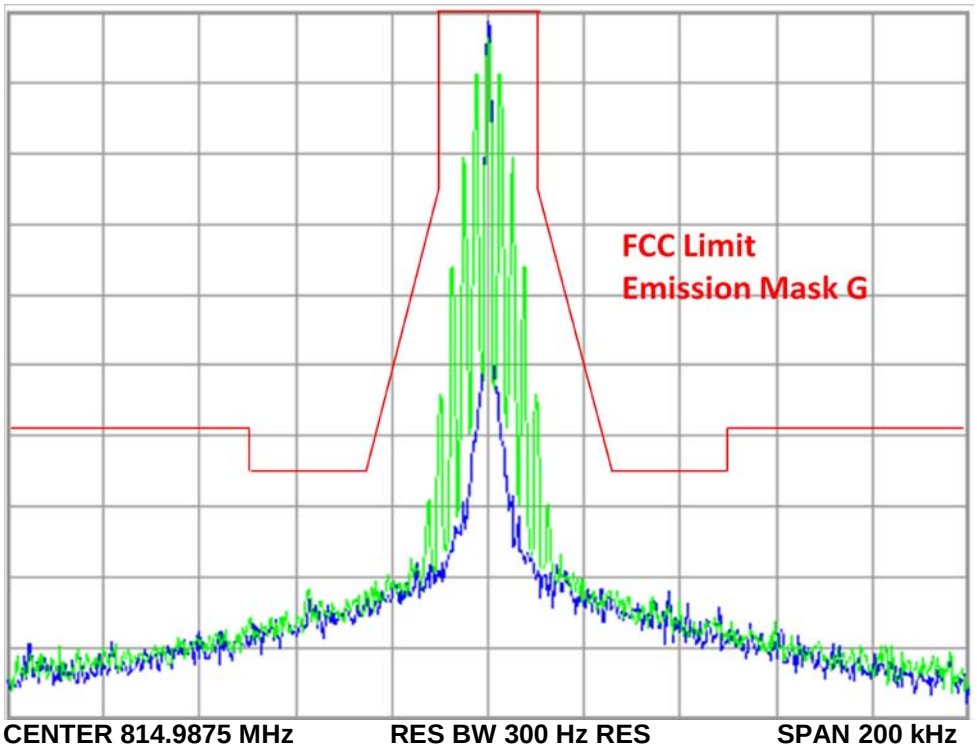



**Figure 6E-4:** 25.0 kHz Channel Spacing, 814.9875 MHz, Analog Voice, Mask G 16K0F3E

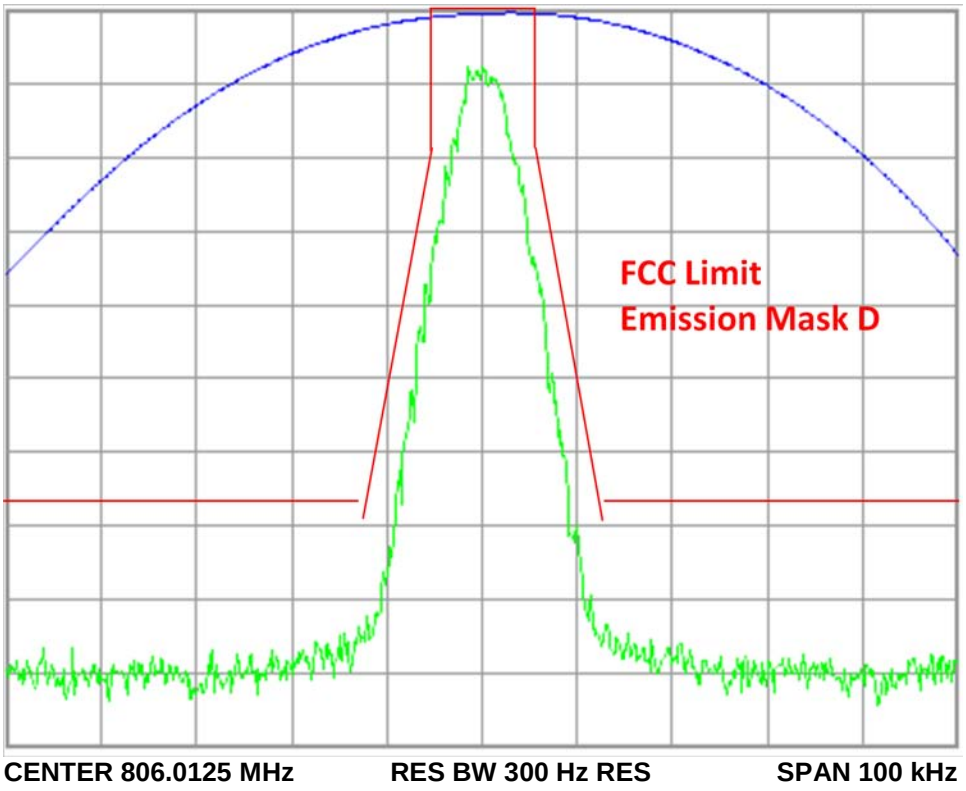



**Figure 6E-5**: 12.5 kHz Channel Spacing, 806.0125 MHz, APCO Digital Data, Mask D 8K10F1D

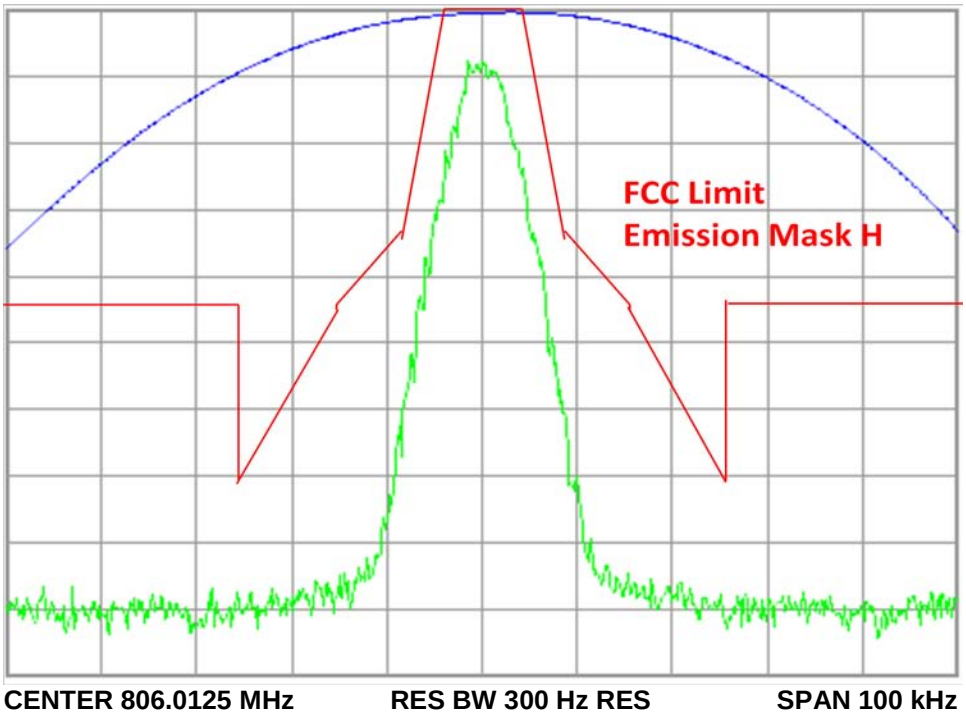



**Figure 6E-6**: 12.5 kHz Channel Spacing, 806.0125 MHz, APCO Digital Data, Mask H 8K10F1D

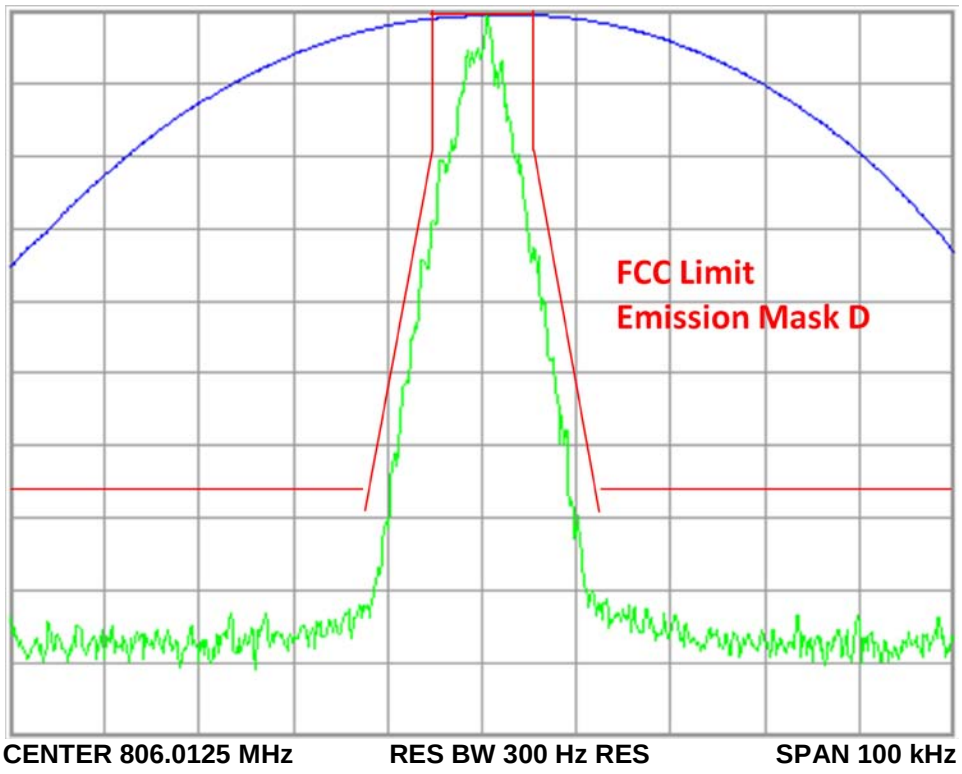



**Figure 6E-7**: 12.5 kHz Channel Spacing, 806.0125 MHz, APCO Digital Voice, Mask D 8K10F1E

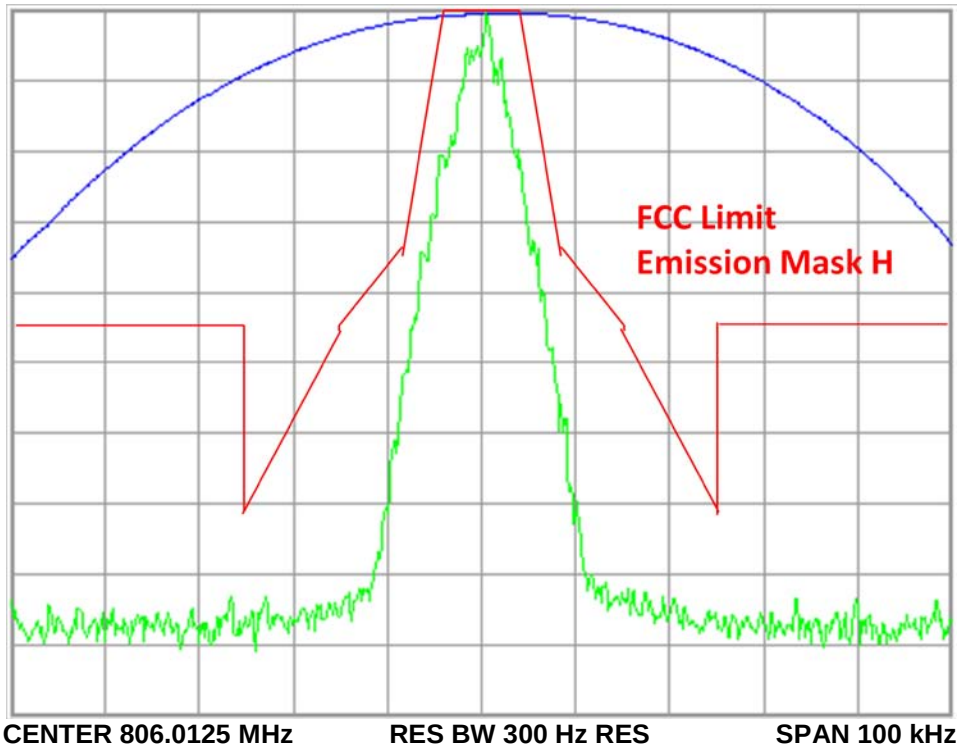



**Figure 6E-8**: 12.5 kHz Channel Spacing, 806.0125 MHz, APCO Digital Voice, Mask H 8K10F1E

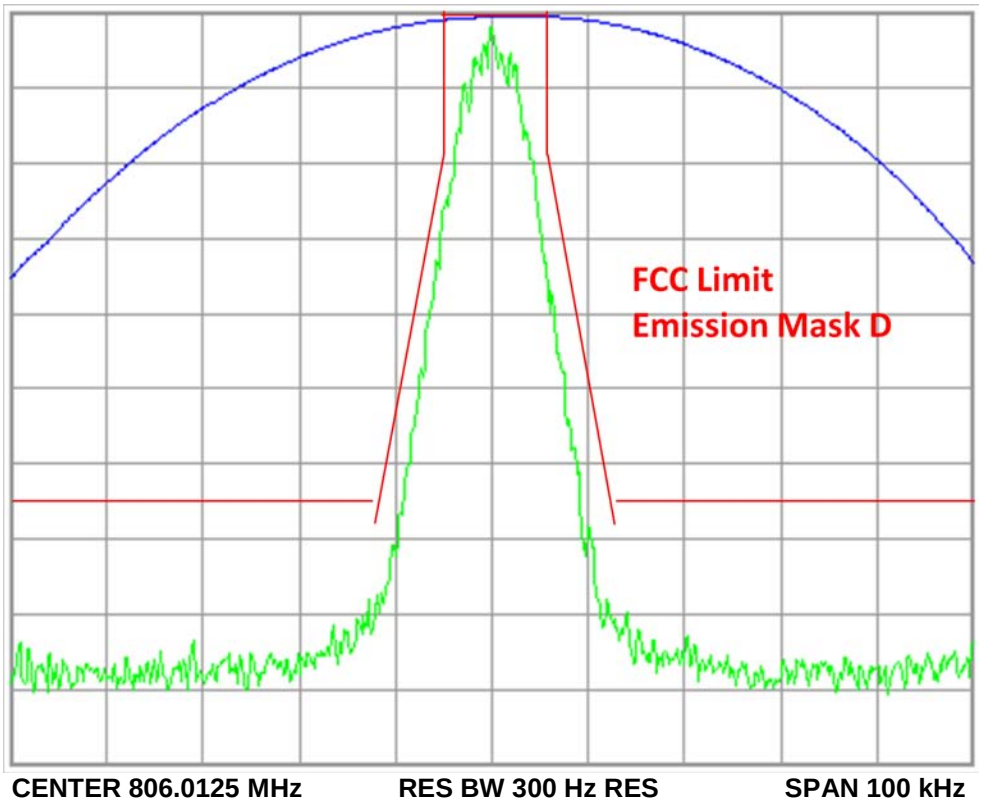



**Figure 6E-9**: 12.5 kHz Channel Spacing, 806.0125 MHz, Phase II (TDMA), Mask D 8K10F1W

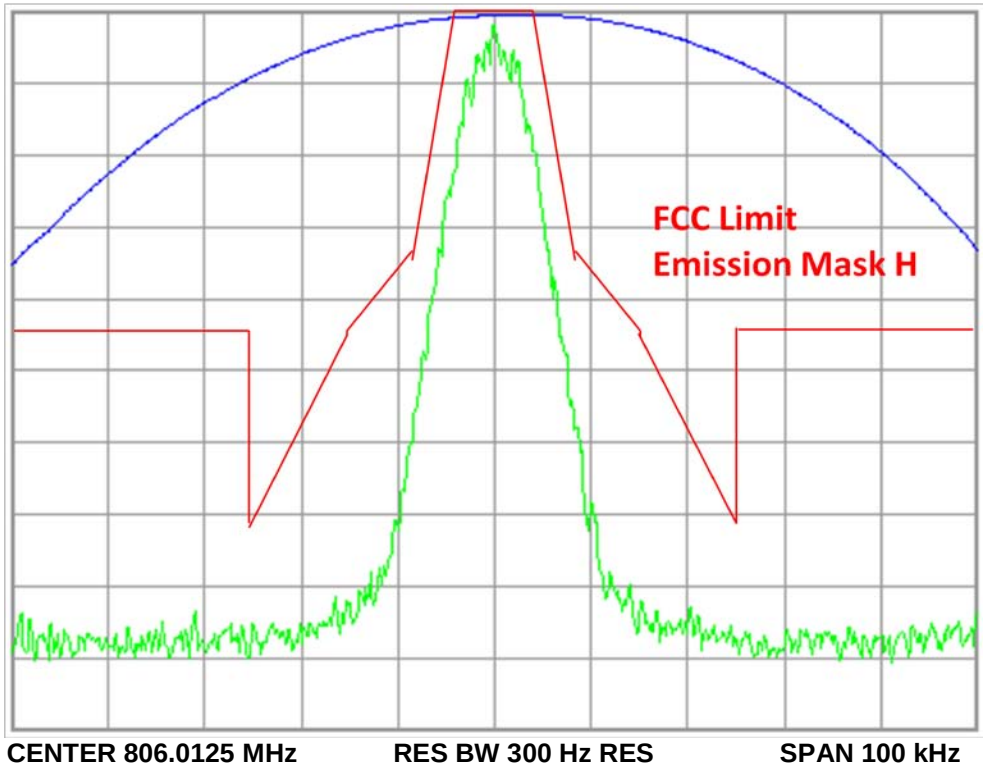



**Figure 6E-10**: 12.5 kHz Channel Spacing, 806.0125 MHz, Phase II (TDMA), Mask H 8K10F1W

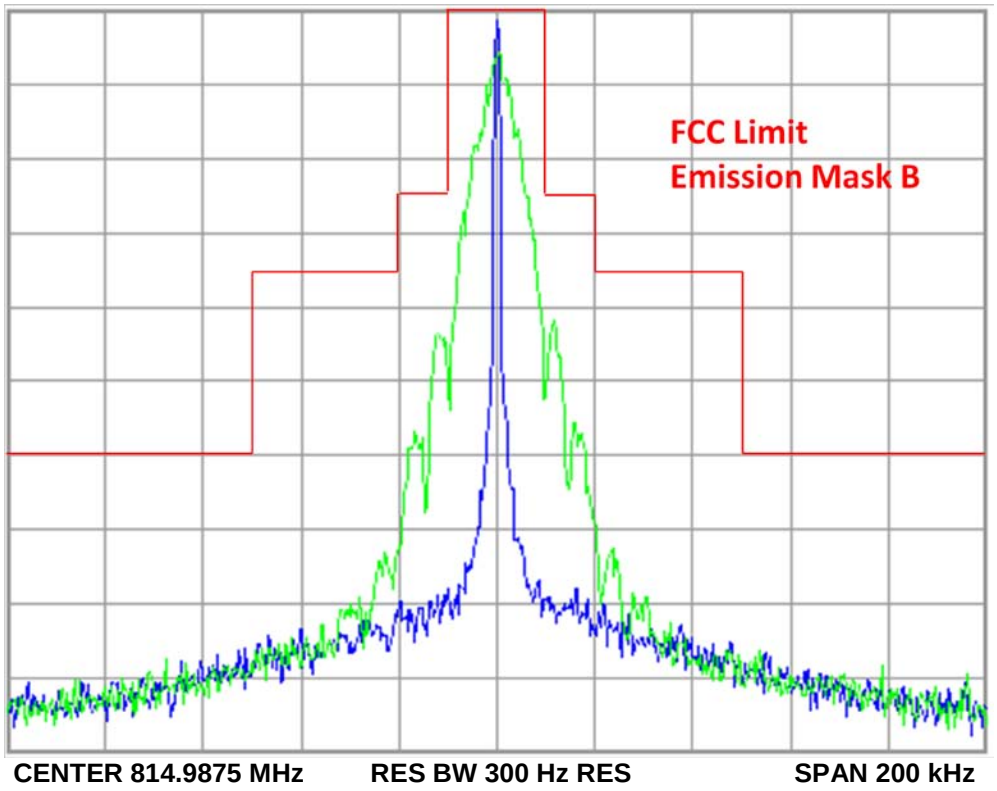



**Figure 6E-11**: 20 kHz Channel Spacing, 814.9875 MHz, Analog Voice Encryption, Mask B 20K0F1E

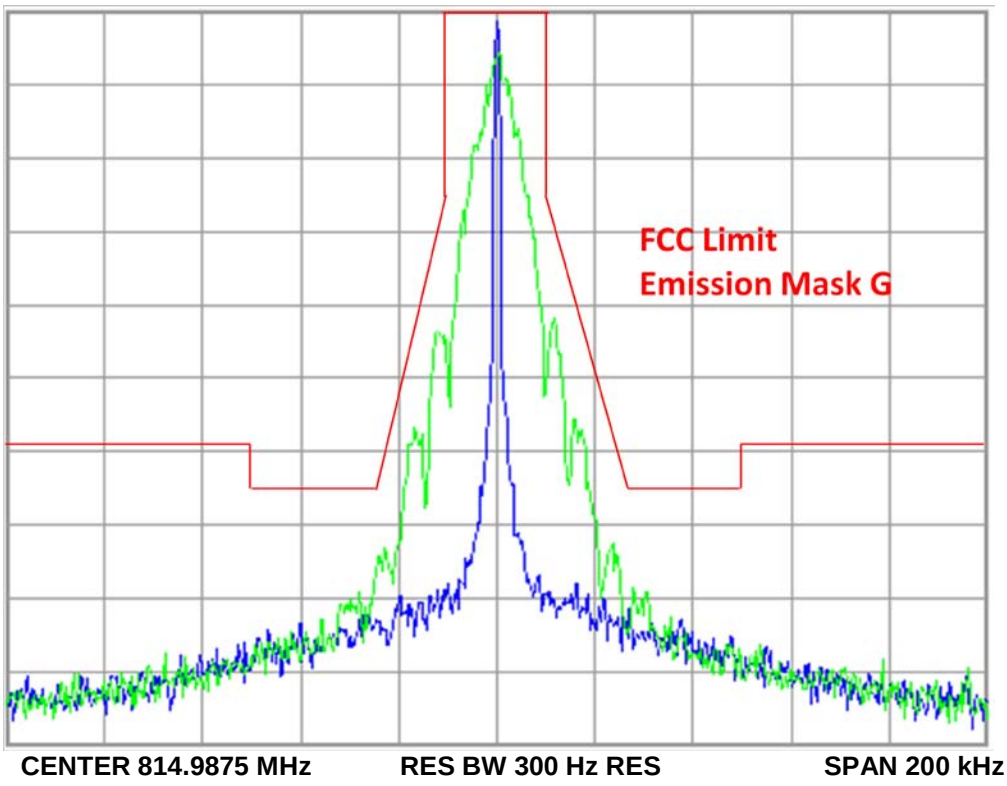



**Figure 6E-12**: 20 kHz Channel Spacing, 814.9875 MHz, Analog Voice Encryption, Mask G 20K0F1E

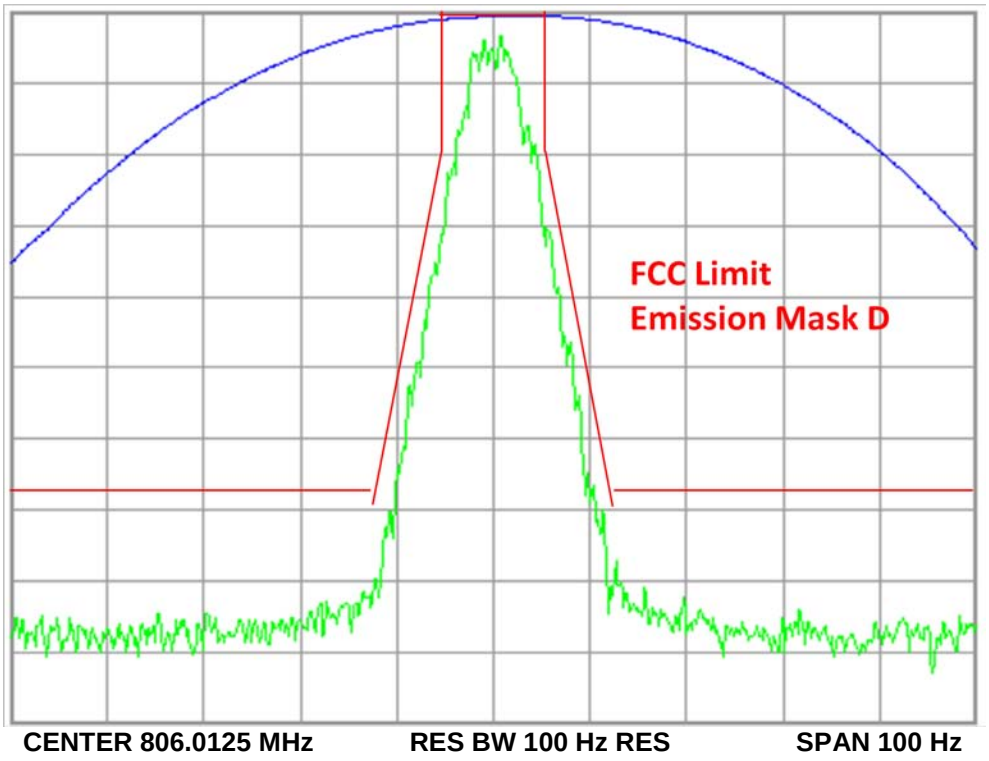



**Figure 6E-13**: 12.5 kHz Channel Spacing, 806.0125 MHz, APCO Digital Voice Encryption, Mask D
8K10F1E

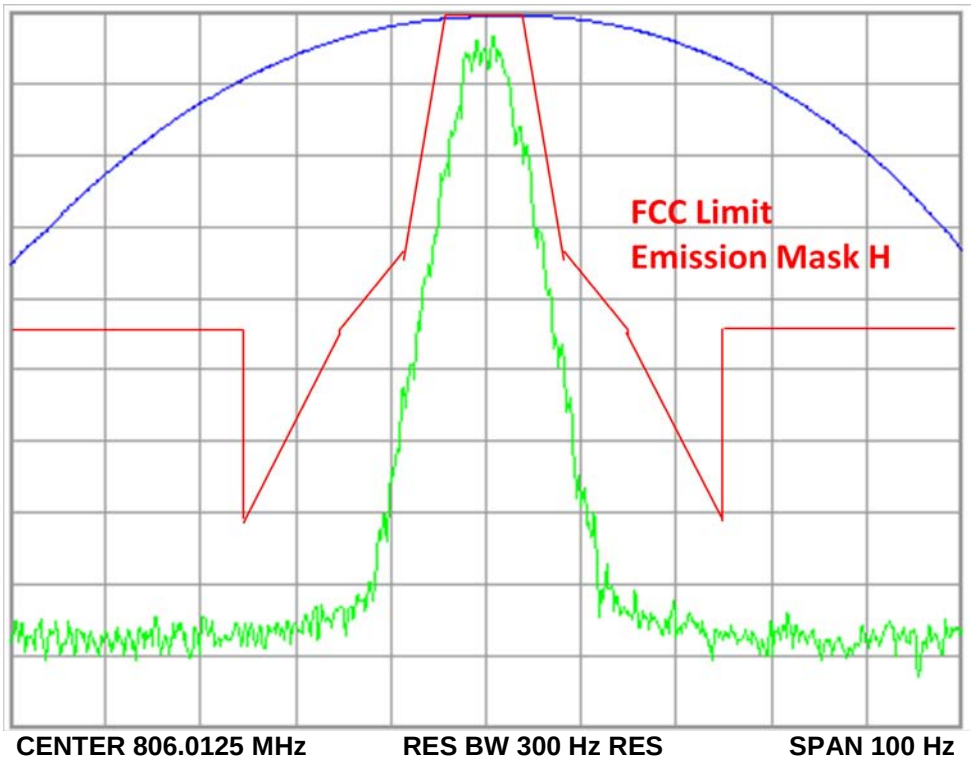



**Figure 6E-14**: 12.5 kHz Channel Spacing, 806.0125 MHz, APCO Digital Voice Encryption, Mask H
8K10F1E

**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**

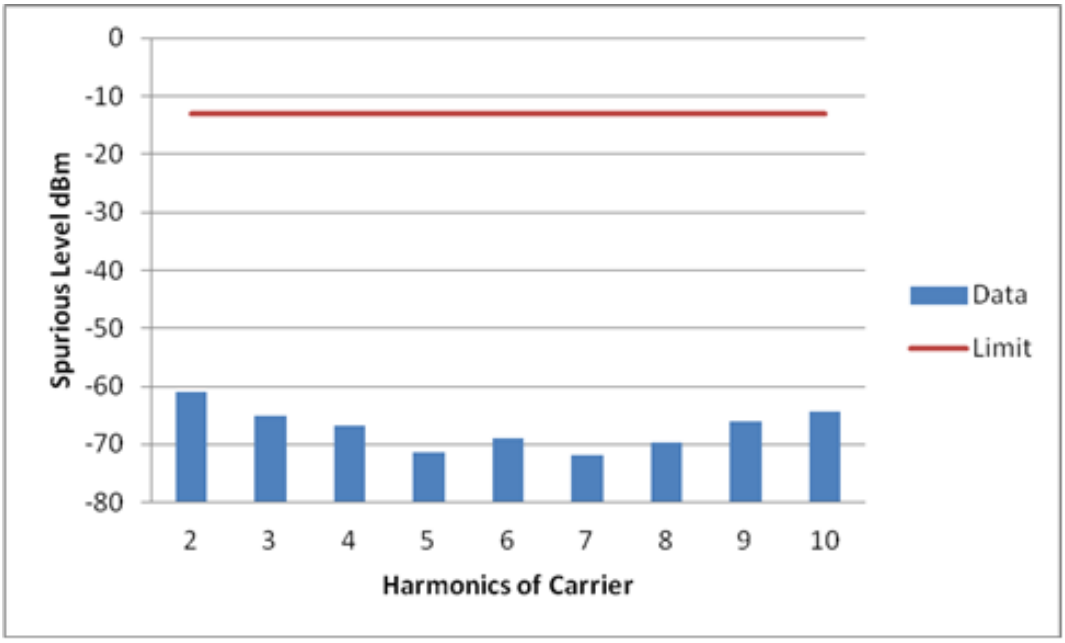



Figure 6F-1: 2 Watt Harmonic of Carrier 764.0125 MHz, 25 kHz Channel Spacing

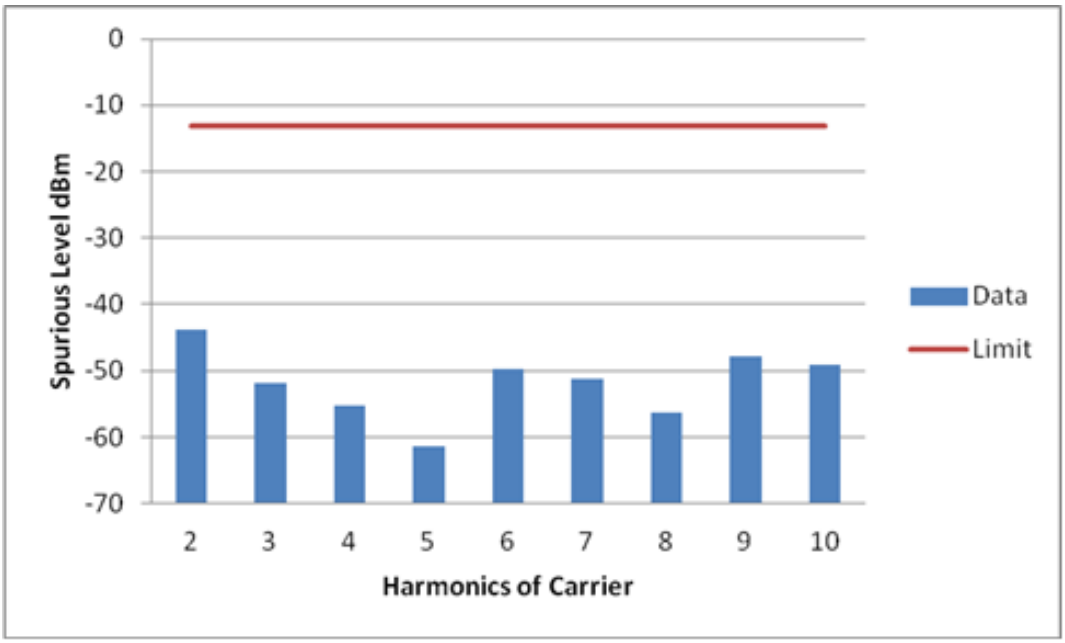



Figure 6F- 2: 36 Watts Harmonic of Carrier 769.0875 MHz, 25 kHz Channel Spacing

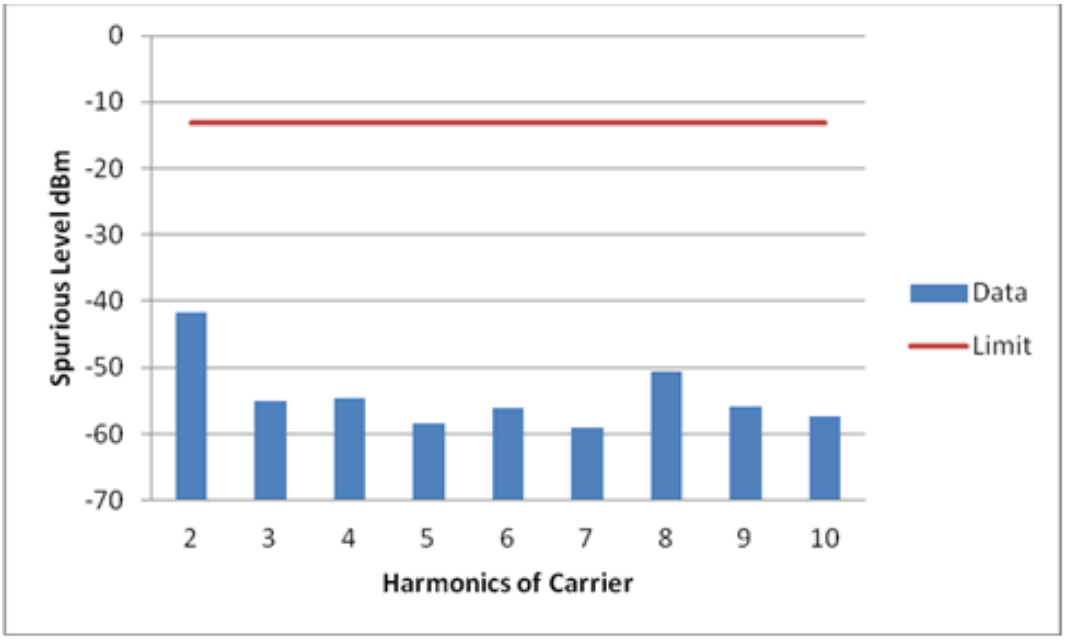



Figure 6F- 3: 36 Watts Harmonic of Carrier 804.9125 MHz, 25 kHz Channel Spacing

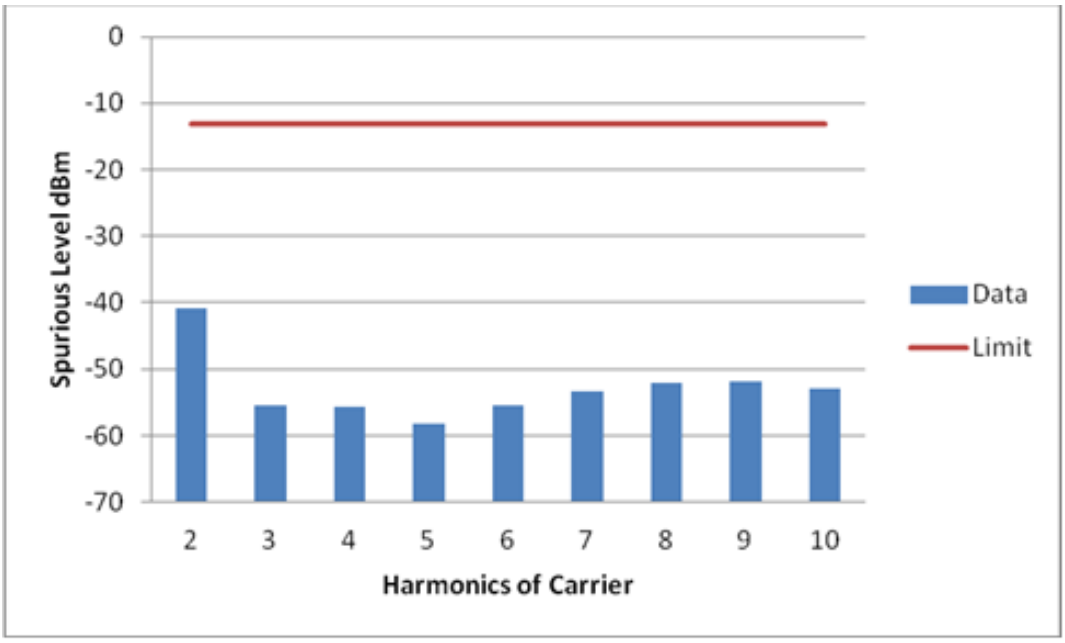



Figure 6F- 4: 42 Watt Harmonic of Carrier 814.9875 MHz, 25 kHz Channel Spacing

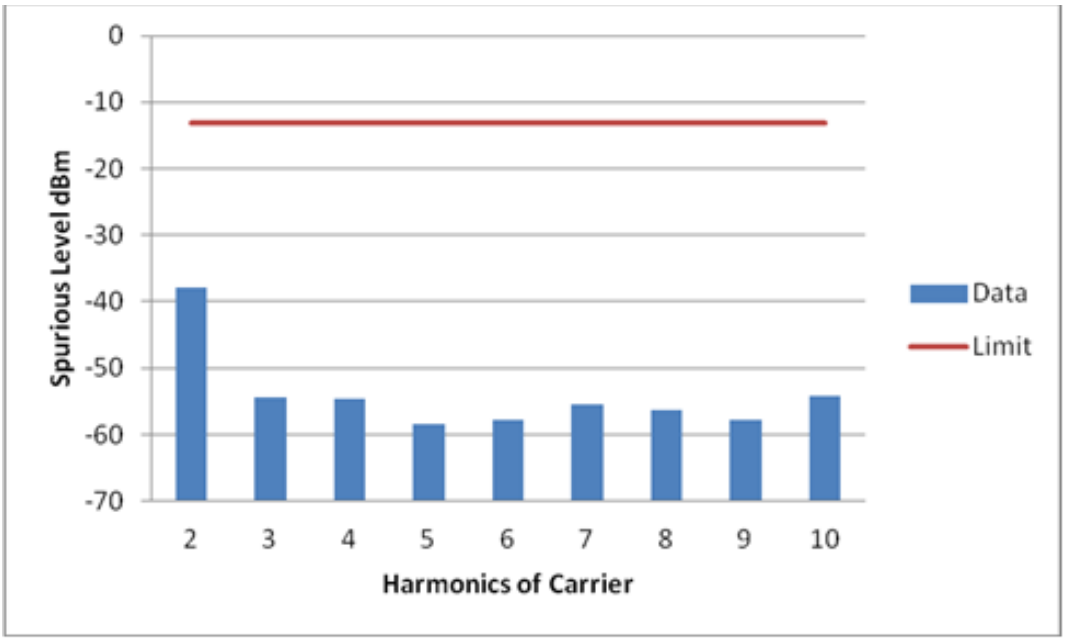



Figure 6F- 5: 42 Watt Harmonic of Carrier 868.9875 MHz, 25 kHz Channel Spacing

**APCO DIGITAL MODE**

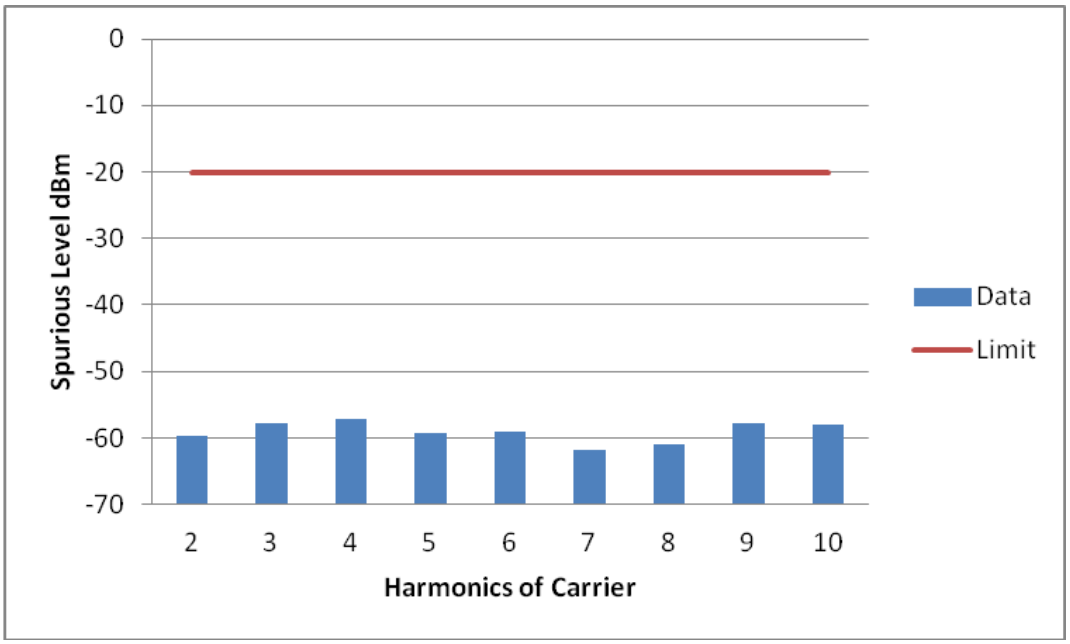



Figure 6F- 6: 2 Watt Harmonic of Carrier 764.0125 MHz, 12.5 kHz Channel Spacing

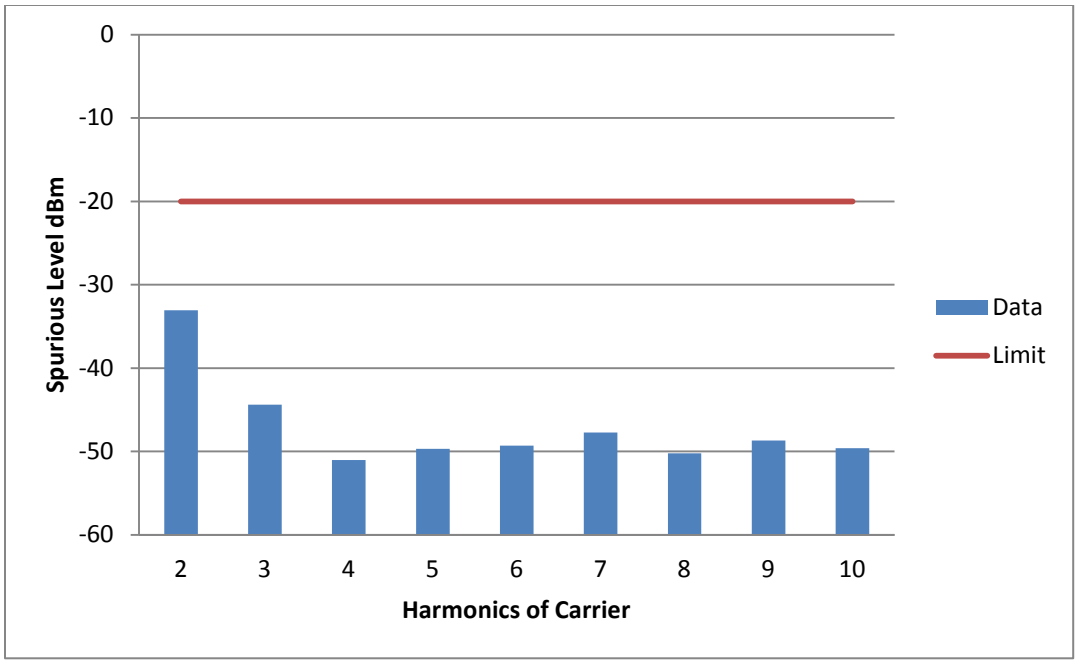



Figure 6F- 7: 36 Watt Harmonic of Carrier 769.0875 MHz, 12.5 kHz Channel Spacing

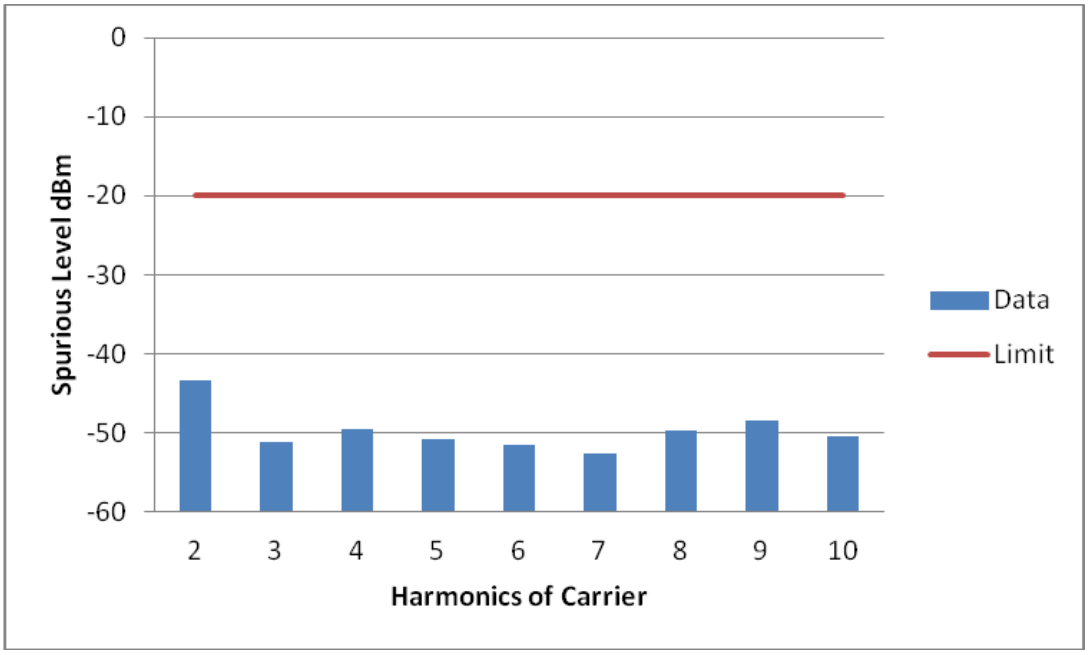



Figure 6F-8: 36 Watt Harmonic of Carrier 804.9125 MHz, 12.5 kHz Channel Spacing

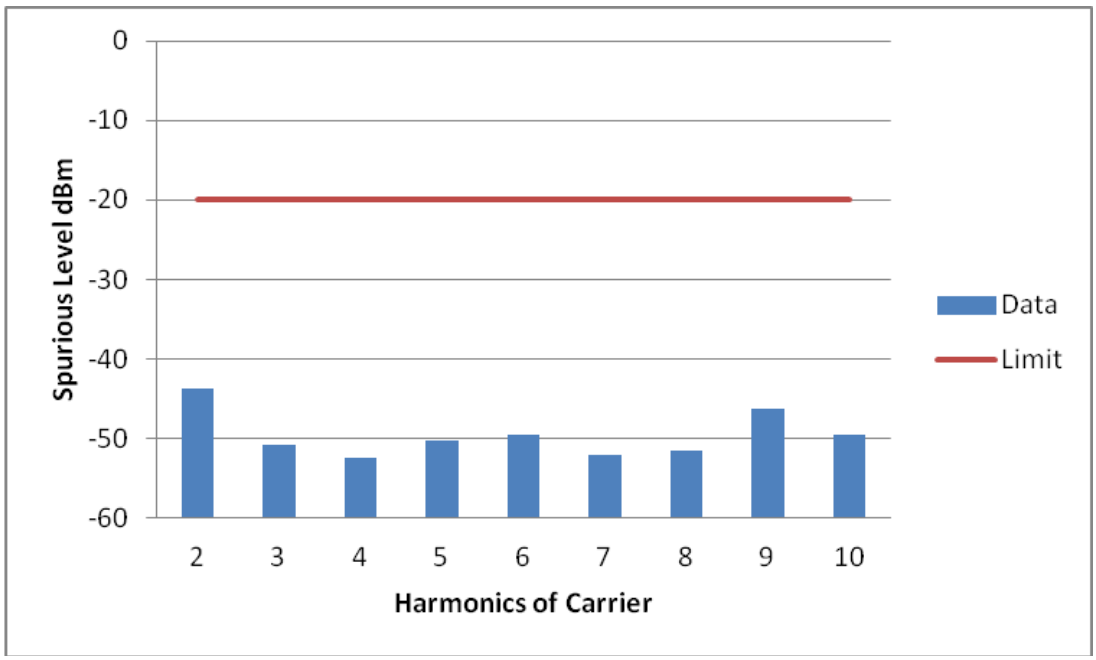



Figure 6F-9: 42 Watt Harmonic of Carrier 814.9875 MHz, 12.5 kHz Channel Spacing

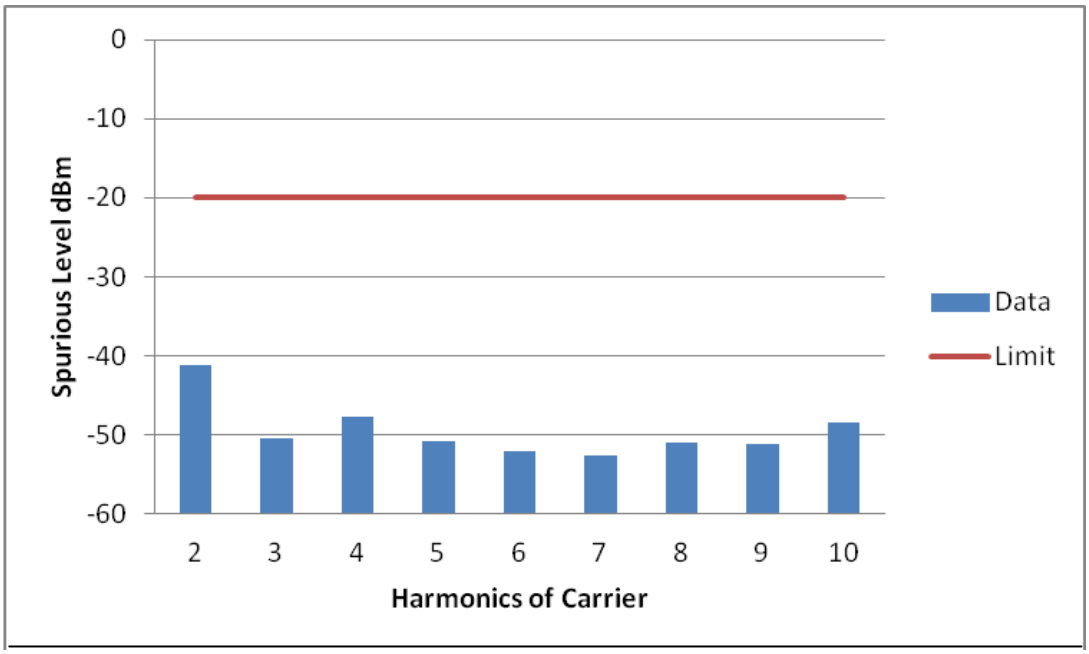



Figure 6F-10: 42 Watt Harmonic of Carrier 868.9875 MHz, 12.5 kHz Channel Spacing

**PHASE II (TDMA) MODE**

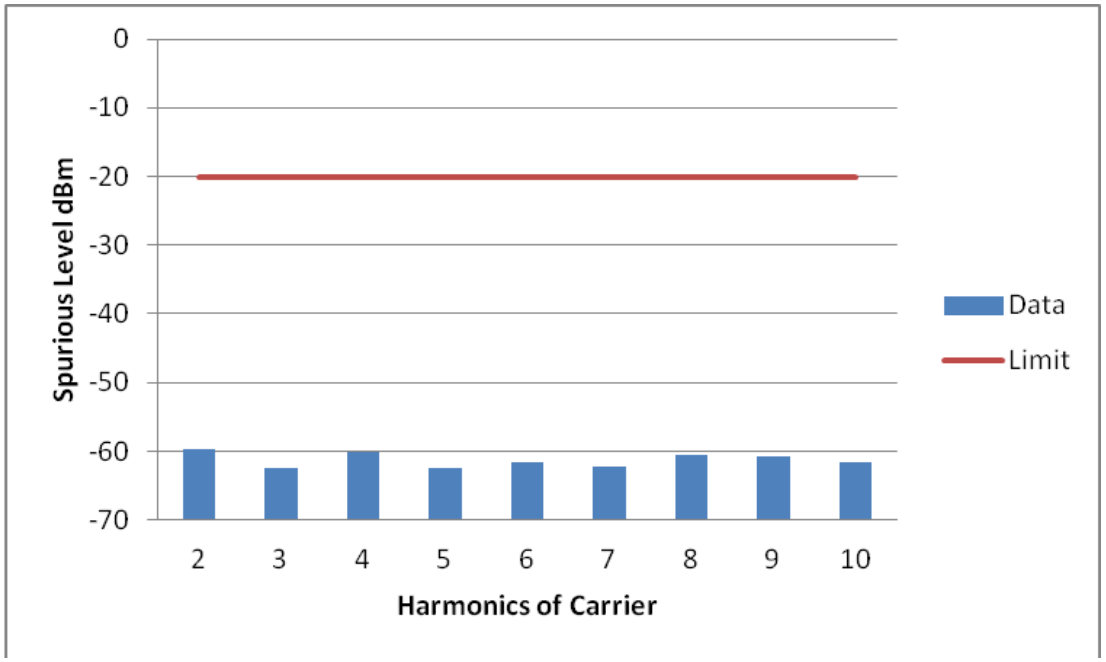



Figure 6F-11: 2 Watt Harmonic of Carrier 764.0125 MHz, 12.5 kHz Channel Spacing

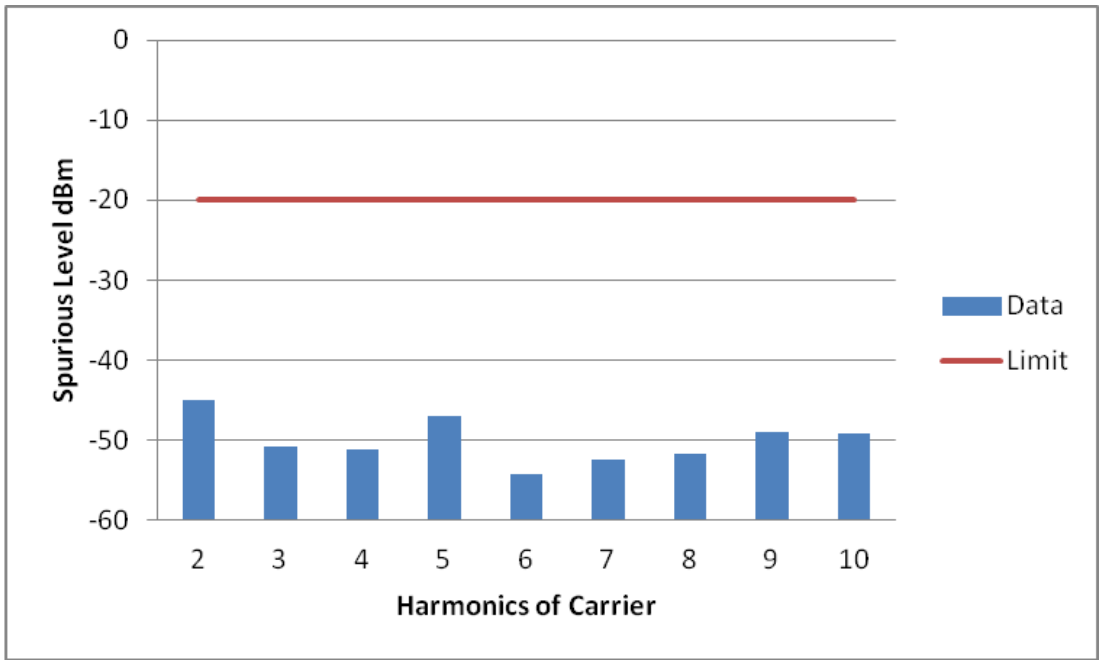



Figure 6F-12: 36 Watt Harmonic of Carrier 769.0875 MHz, 12.5 kHz Channel Spacing

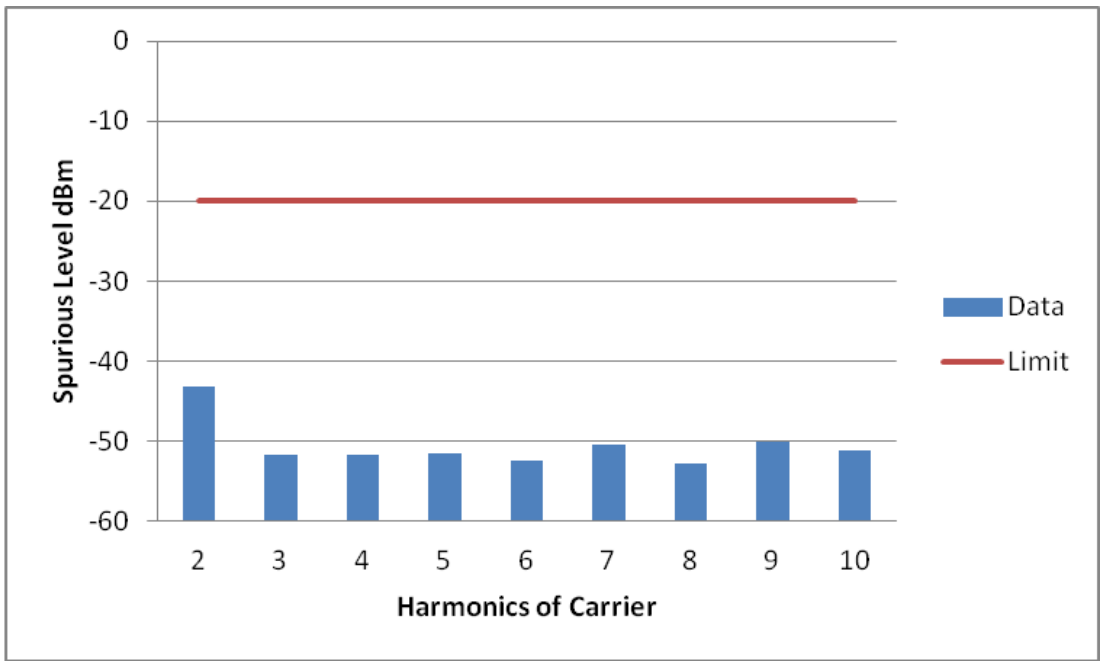



Figure 6F-13: 36 Watt Harmonic of Carrier 804.9125 MHz, 12.5 kHz Channel Spacing

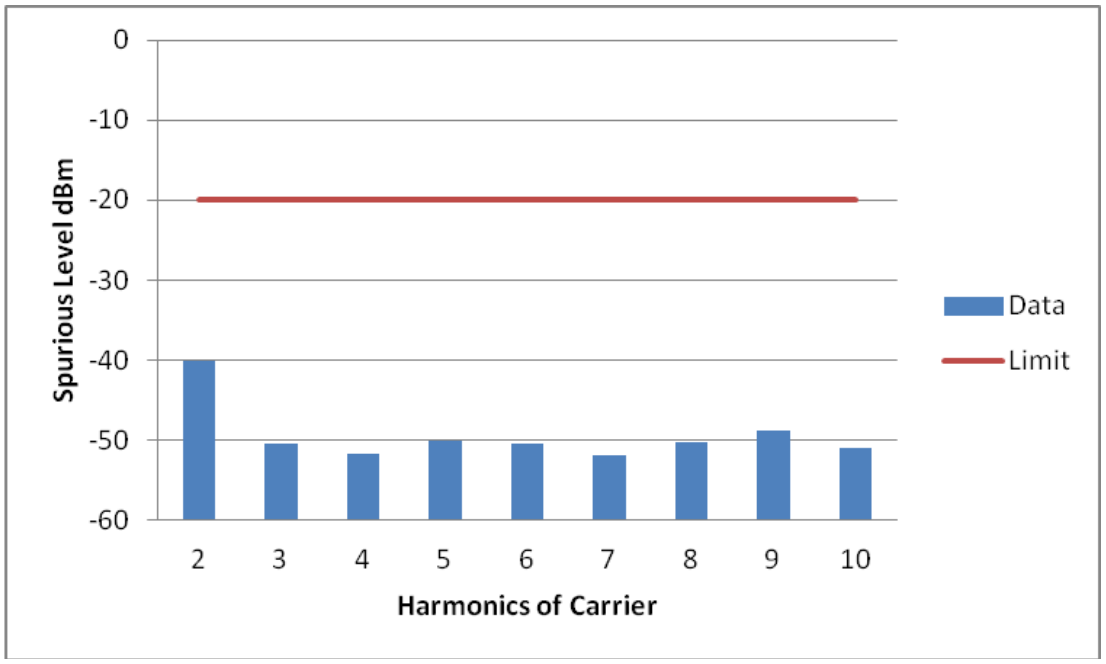



Figure 6F-14: 42 Watt Harmonic of Carrier 814.9875 MHz, 12.5 kHz Channel Spacing

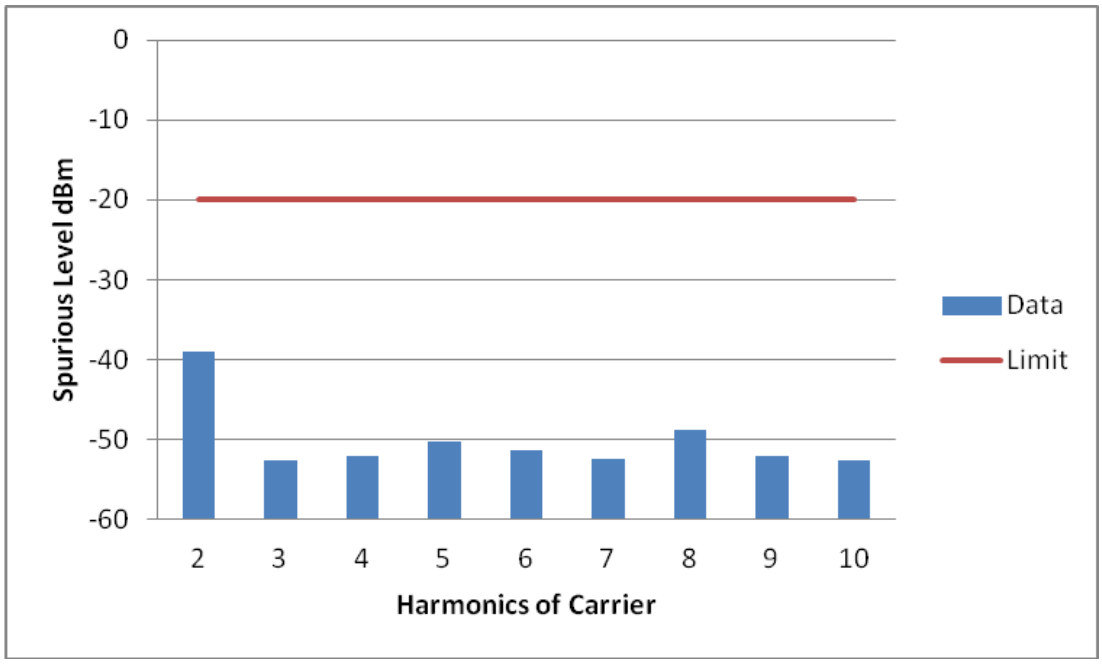



Figure 6F-15: 42 Watt Harmonic of Carrier 868.9875 MHz, 12.5 kHz Channel Spacing

**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.

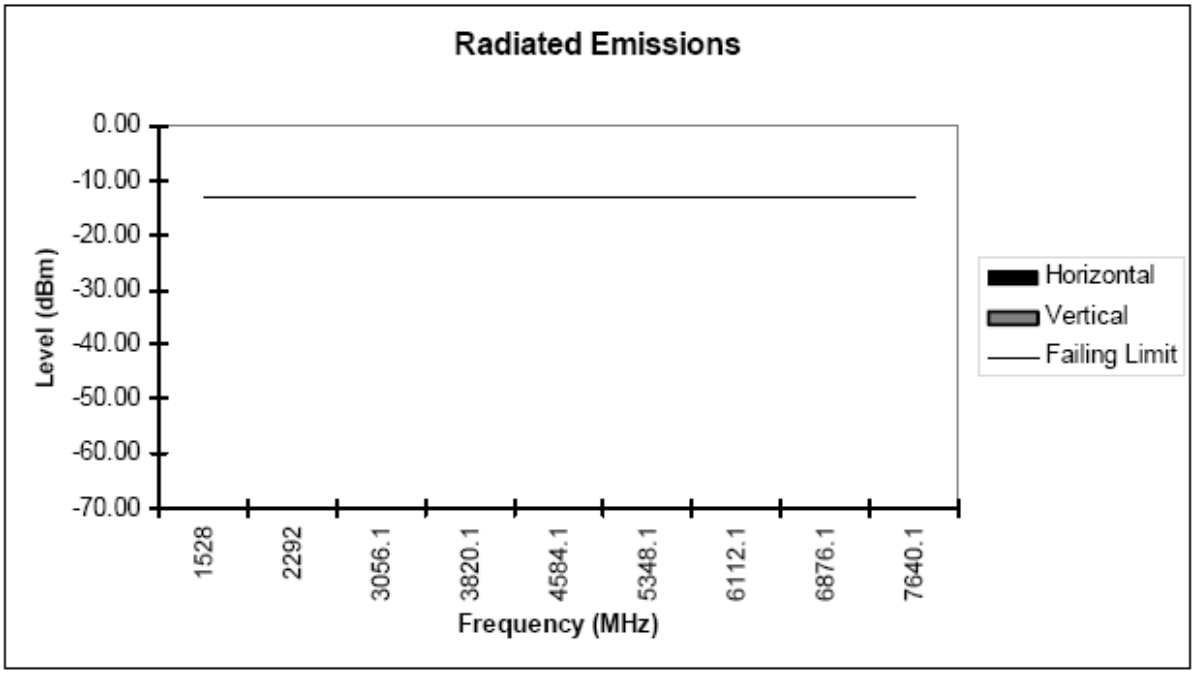



**Figure 6G-1**: 2W, 764.0125 MHz, 25 kHz Channel Spacing

| 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) |
|---|---|---|---|---|---|---|---|---|
| 1538.175 | -46.35 | H | 115 | 168 | -4.42 | -50.77 | -13.00 | 37.77 |
| 2307.2625 | -46.10 | H | 119 | 175 | -0.21 | -46.31 | -13.00 | 33.31 |
| | | | | | | | | |
| 1538.175 | -50.95 | V | 216 | 92 | -6.62 | -57.57 | -13.00 | 44.57 |

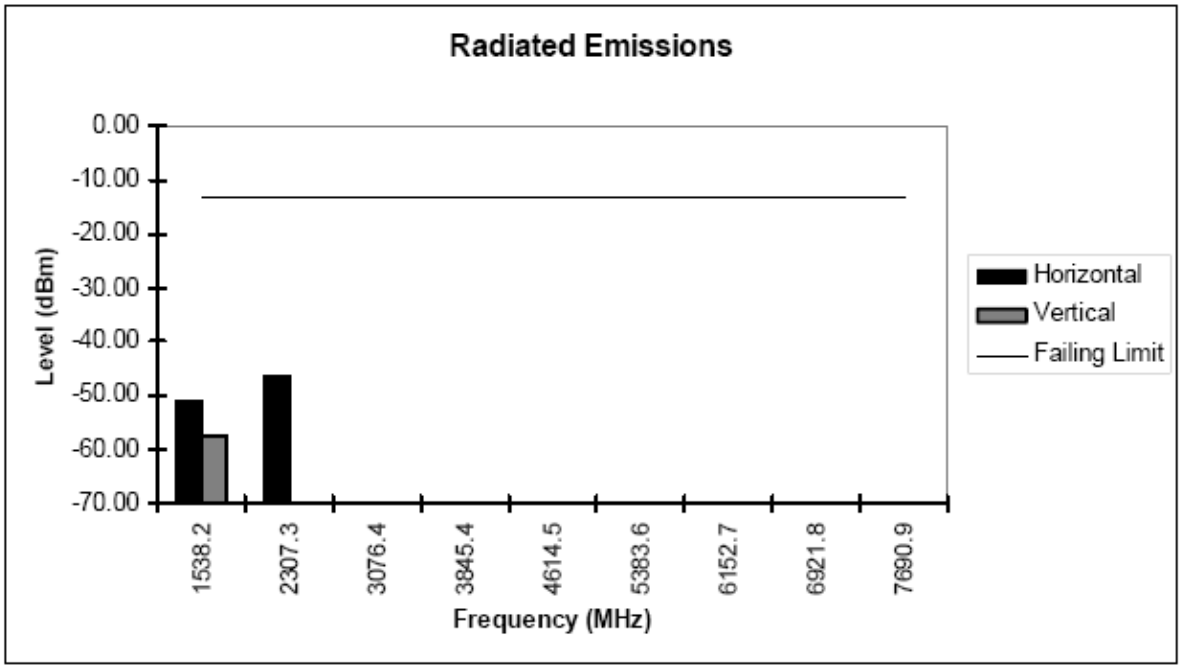



**Figure 6G-2**: 36W, 769.0875 MHz, 25 kHz Channel Spacing

| 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) |
|---|---|---|---|---|---|---|---|---|
| 1609.825 | -52.35 | H | 105 | 156 | -8.23 | -60.58 | -13.00 | 47.58 |
| 2414.7375 | -56.45 | H | 100 | 232 | -10.64 | -67.09 | -13.00 | 54.09 |
| 3219.65 | -59.75 | H | 100 | 348 | -4.73 | -64.48 | -13.00 | 51.48 |
| | | | | | | | | |
| 1609.825 | -52.25 | V | 153 | 191 | 0.02 | -52.23 | -13.00 | 39.23 |
| 3219.65 | -59.85 | V | 186 | 165 | -4.33 | -64.18 | -13.00 | 51.18 |

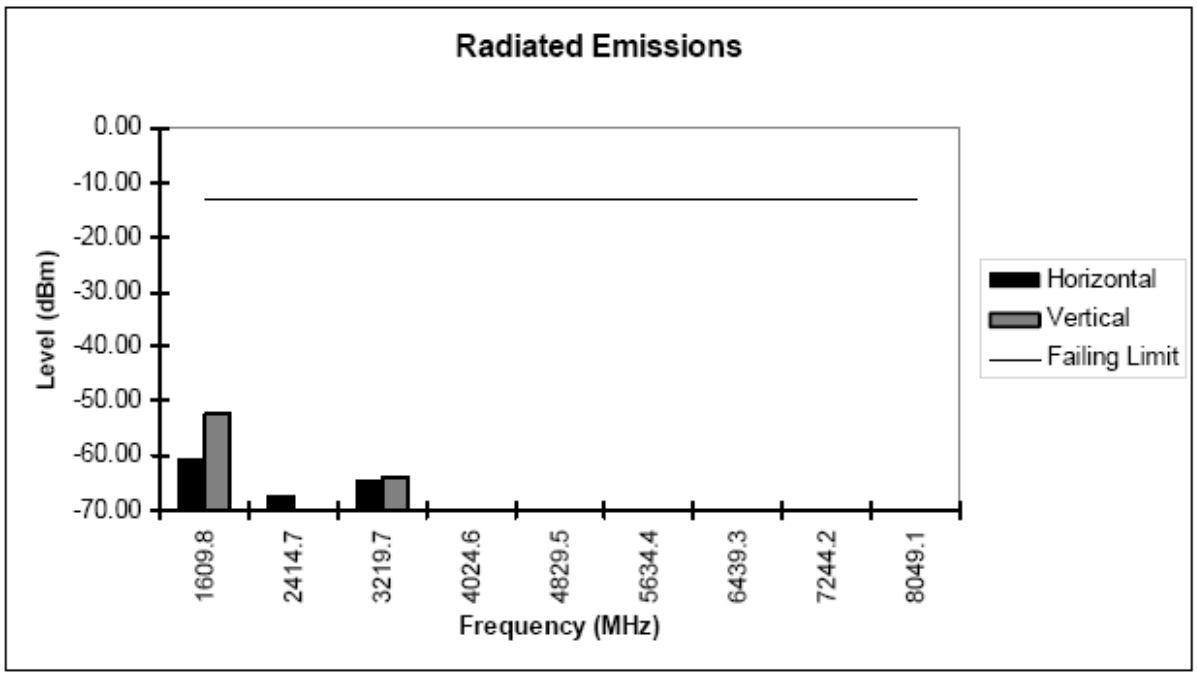



**Figure 6G-3**: 36W, 804.9125 MHz, 25 kHz Channel Spacing

| 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) |
|---|---|---|---|---|---|---|---|---|
| 1629.975 | -51.55 | H | 105 | 156 | -7.13 | -58.68 | -13.00 | 45.68 |
| 2444.9625 | -56.40 | H | 100 | 230 | 0.11 | -56.29 | -13.00 | 43.29 |
| 3259.95 | -58.35 | H | 100 | 348 | -2.83 | -61.18 | -13.00 | 48.18 |
| | | | | | | | | |
| 1629.975 | -52.40 | V | 100 | 100 | -8.43 | -60.83 | -13.00 | 47.83 |
| 2444.9625 | -57.05 | V | 103 | 167 | -7.69 | -64.74 | -13.00 | 51.74 |
| 3259.95 | -56.65 | V | 161 | 63 | 3.02 | -53.63 | -13.00 | 40.63 |

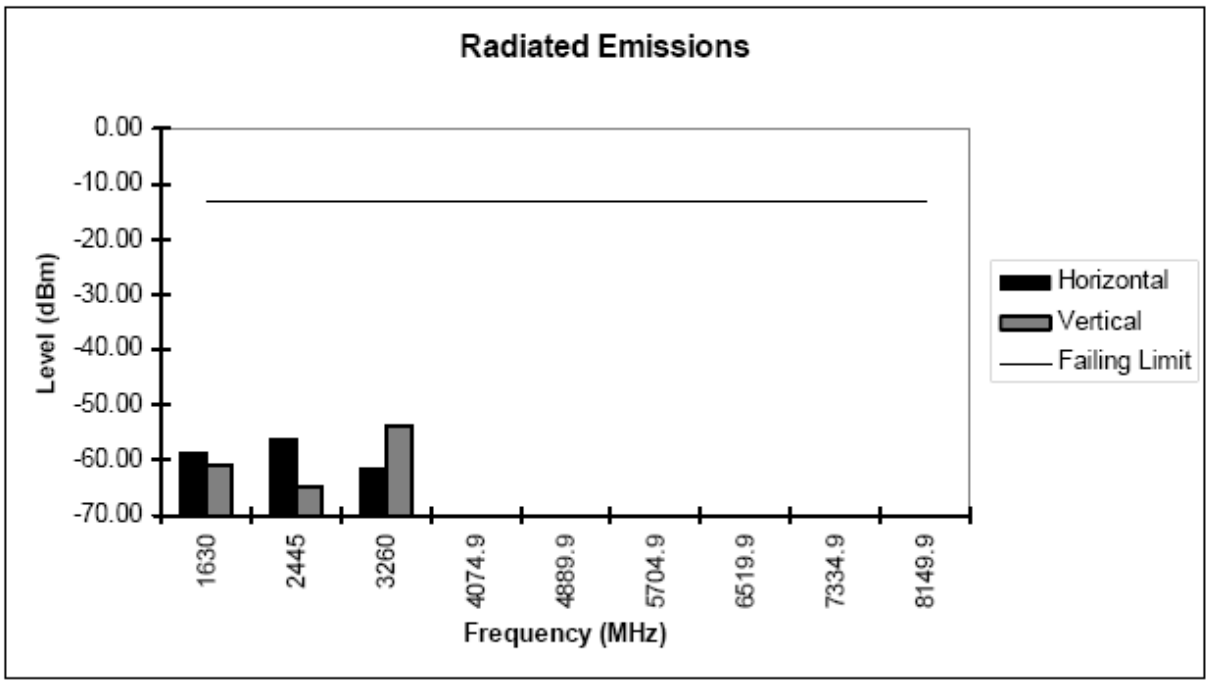



**Figure 6G-4**: 42W, 814.9125 MHz, 25 kHz Channel Spacing

| 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) |
|---|---|---|---|---|---|---|---|---|
| 1737.975 | -53.20 | H | 100 | 151 | -7.17 | -60.37 | -13.00 | 47.37 |
| 2606.9625 | -53.95 | H | 110 | 212 | -4.36 | -58.31 | -13.00 | 45.31 |
| 3475.95 | -57.60 | H | 118 | 213 | -3.19 | -60.79 | -13.00 | 47.79 |
| | | | | | | | | |
| 1737.975 | -52.55 | V | 100 | 171 | -7.77 | -60.32 | -13.00 | 47.32 |
| 2606.9625 | -51.95 | V | 100 | 246 | -0.21 | -52.16 | -13.00 | 39.16 |
| 3475.95 | -57.85 | V | 166 | 71 | -2.79 | -60.64 | -13.00 | 47.64 |

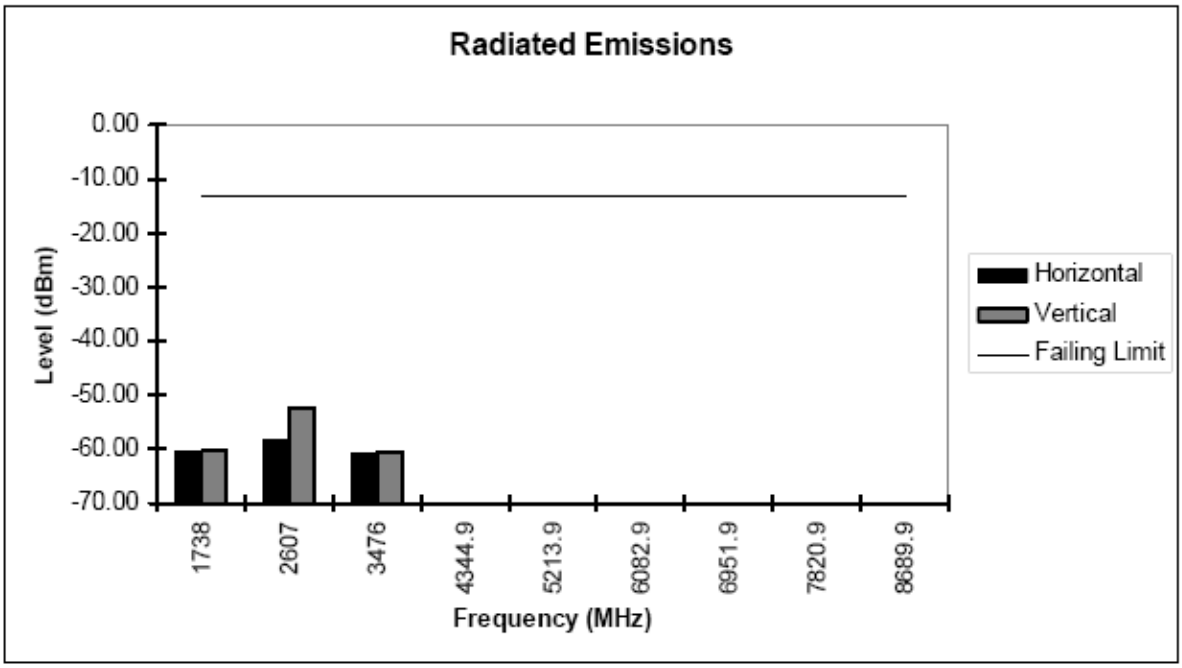



**Figure 6G-5**: 42W, 868.9875 MHz, 25 kHz Channel Spacing

**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) |
|---|---|---|---|---|---|---|---|---|
| Noise Floor | | | | | | | | |

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

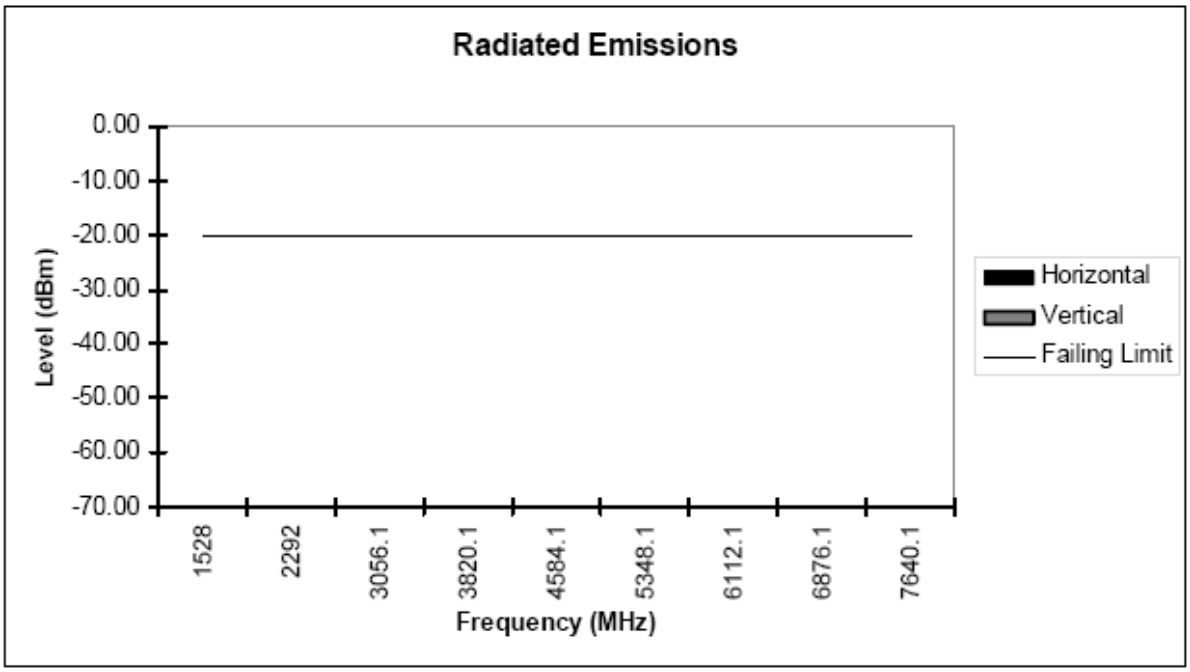



**Figure 6G-6**: 2W, 764.0125 MHz, 12.5 kHz Channel Spacing

| 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) |
|---|---|---|---|---|---|---|---|---|
| 1538.175 | -49.25 | H | 110 | 165 | -6.17 | -55.42 | -20.00 | 35.42 |
| | | | | | | | | |
| 1538.175 | -51.10 | V | 100 | 92 | -8.32 | -59.42 | -20.00 | 39.42 |

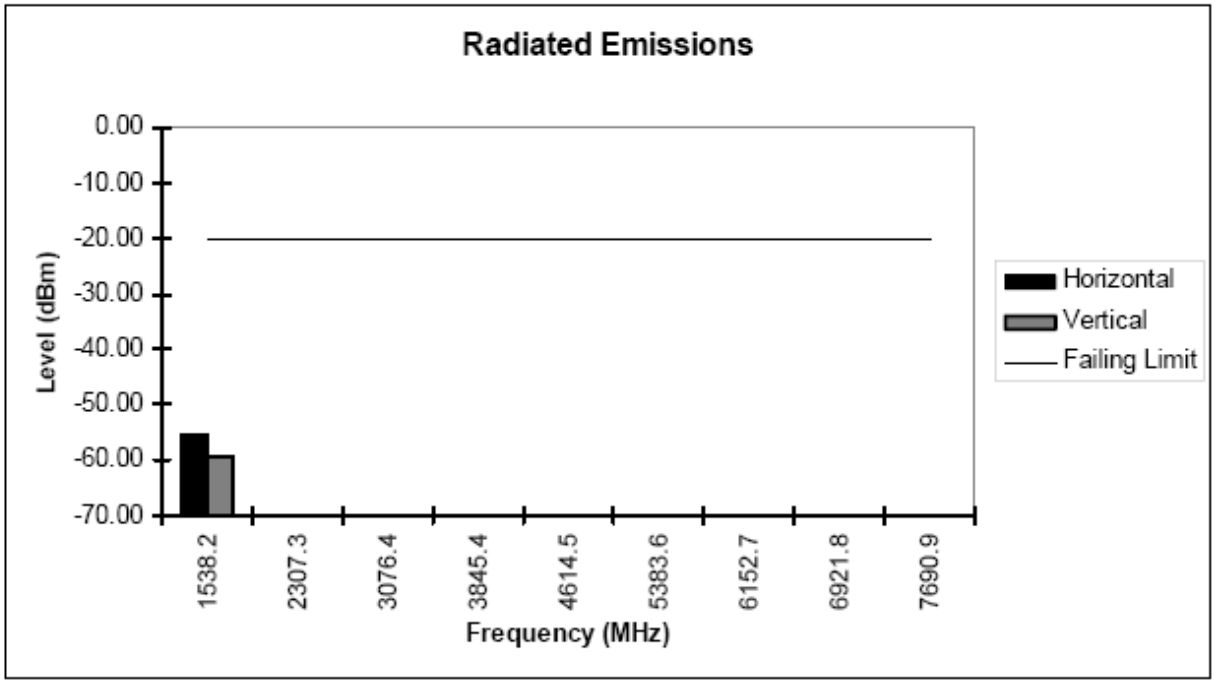



**Figure 6G-7**: 36W, 769.0875 MHz, 12.5 kHz Channel Spacing

| 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) |
|---|---|---|---|---|---|---|---|---|
| 1609.825 | -48.30 | H | 115 | 171 | -4.98 | -53.28 | -20.00 | 33.28 |
| 2414.7375 | -52.25 | H | 112 | 166 | -3.04 | -55.29 | -20.00 | 35.29 |
| 3219.65 | -57.50 | H | 185 | 152 | -10.28 | -67.78 | -20.00 | 47.78 |
| | | | | | | | | |
| 1609.825 | -48.35 | V | 100 | 101 | -4.88 | -53.23 | -20.00 | 33.23 |
| 2414.7375 | -52.60 | V | 100 | 105 | -1.59 | -54.19 | -20.00 | 34.19 |
| 3219.65 | -56.45 | V | 181 | 72 | -2.58 | -59.03 | -20.00 | 39.03 |

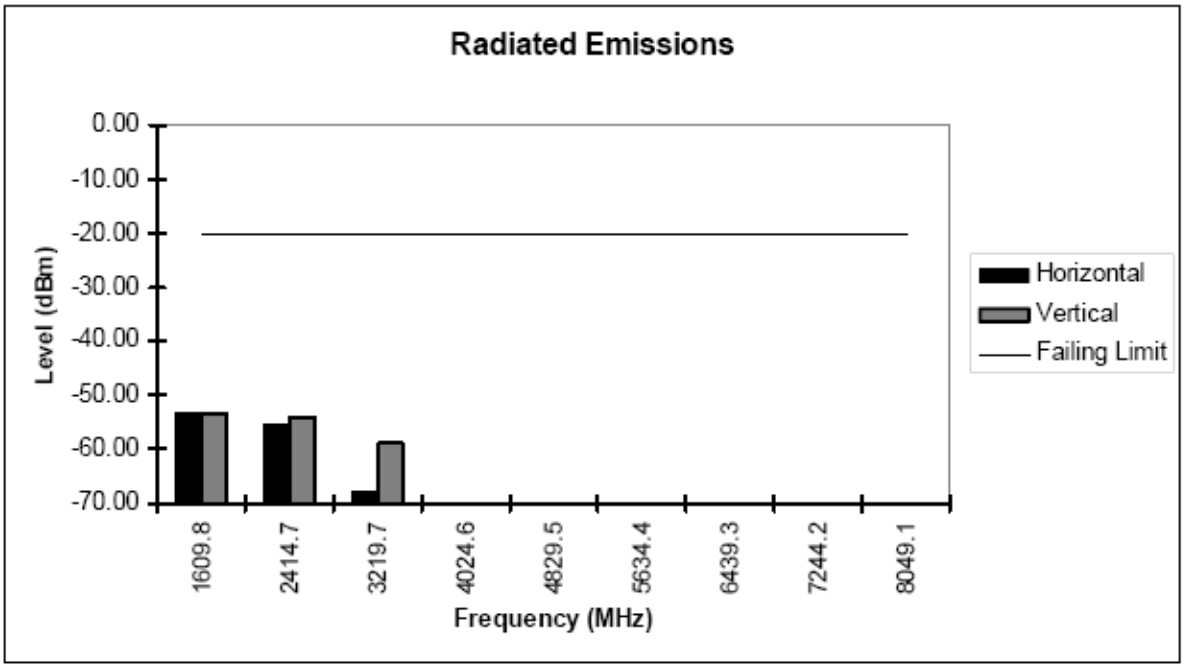



**Figure 6G-8**: 36W, 804.9125 MHz, 12.5 kHz Channel Spacing

| 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) |
|---|---|---|---|---|---|---|---|---|
| 1629.975 | -51.85 | H | 108 | 170 | -7.83 | -59.68 | -20.00 | 39.68 |
| 2444.9625 | -55.80 | H | 112 | 164 | -8.24 | -64.04 | -20.00 | 44.04 |
| 3259.95 | -57.15 | H | 180 | 151 | -2.73 | -59.88 | -20.00 | 39.88 |
| | | | | | | | | |
| 1629.975 | -51.65 | V | 100 | 101 | -7.48 | -59.13 | -20.00 | 39.13 |
| 2444.9625 | -55.95 | V | 100 | 105 | -6.54 | -62.49 | -20.00 | 42.49 |
| 3259.95 | -57.65 | V | 100 | 112 | -3.03 | -60.68 | -20.00 | 40.68 |

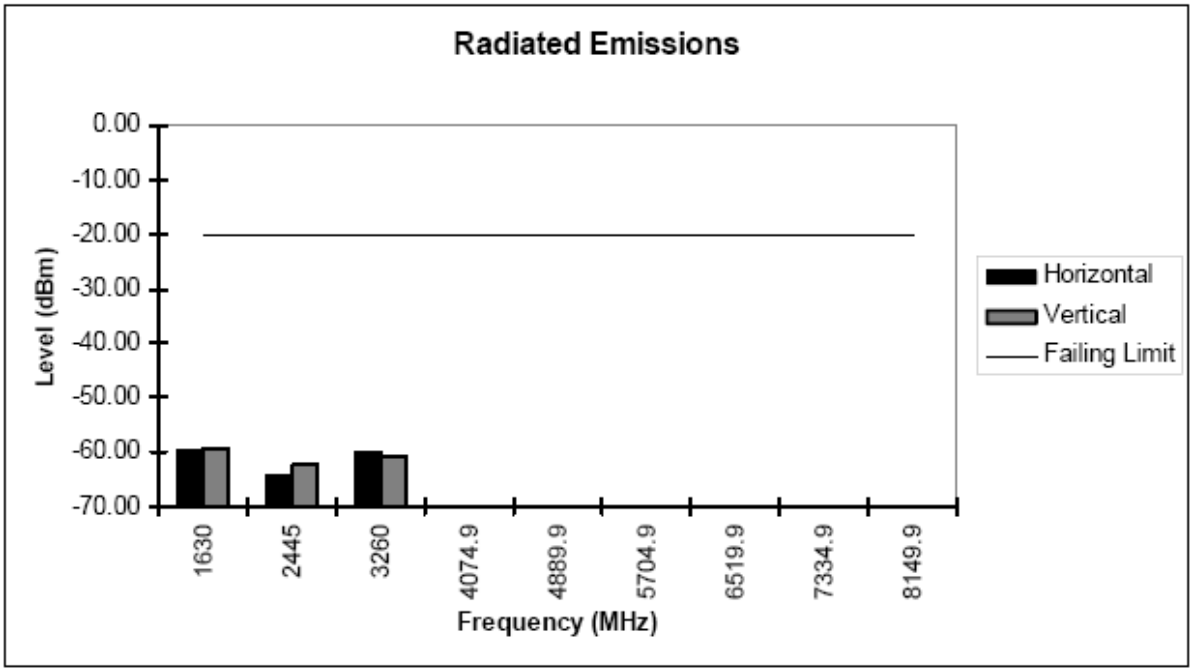



**Figure 6G-9**: 42W, 814.9125 MHz, 12.5 kHz Channel Spacing

| 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) |
|---|---|---|---|---|---|---|---|---|
| 1737.975 | -53.15 | H | 100 | 157 | -8.57 | -61.72 | -20.00 | 41.72 |
| 2606.9625 | -53.80 | H | 110 | 211 | -3.91 | -57.71 | -20.00 | 37.71 |
| 3475.95 | -57.35 | H | 118 | 213 | -0.39 | -57.74 | -20.00 | 37.74 |
| | | | | | | | | |
| 1737.975 | -51.75 | V | 106 | 218 | -6.47 | -58.22 | -20.00 | 38.22 |
| 2606.9625 | -52.45 | V | 100 | 247 | -0.31 | -52.76 | -20.00 | 32.76 |
| 3475.95 | -57.60 | V | 168 | 176 | -2.14 | -59.74 | -20.00 | 39.74 |

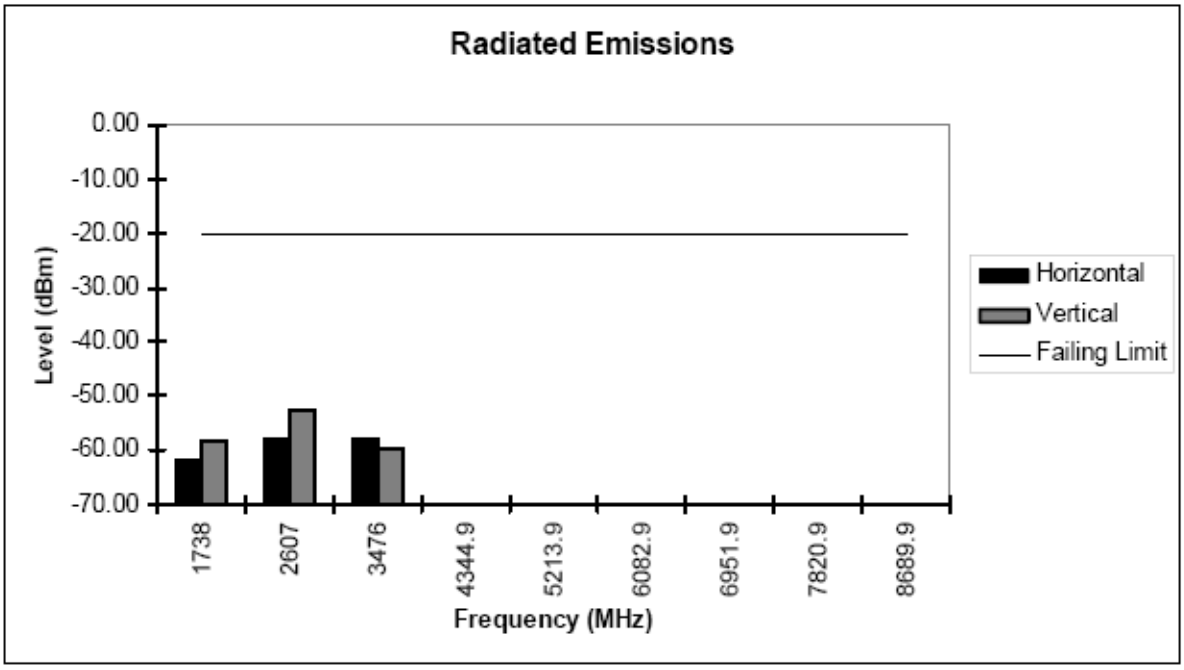



**Figure 6G-10**: 42W, 868.9875MHz, 12.5 kHz Channel Spacing

**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.

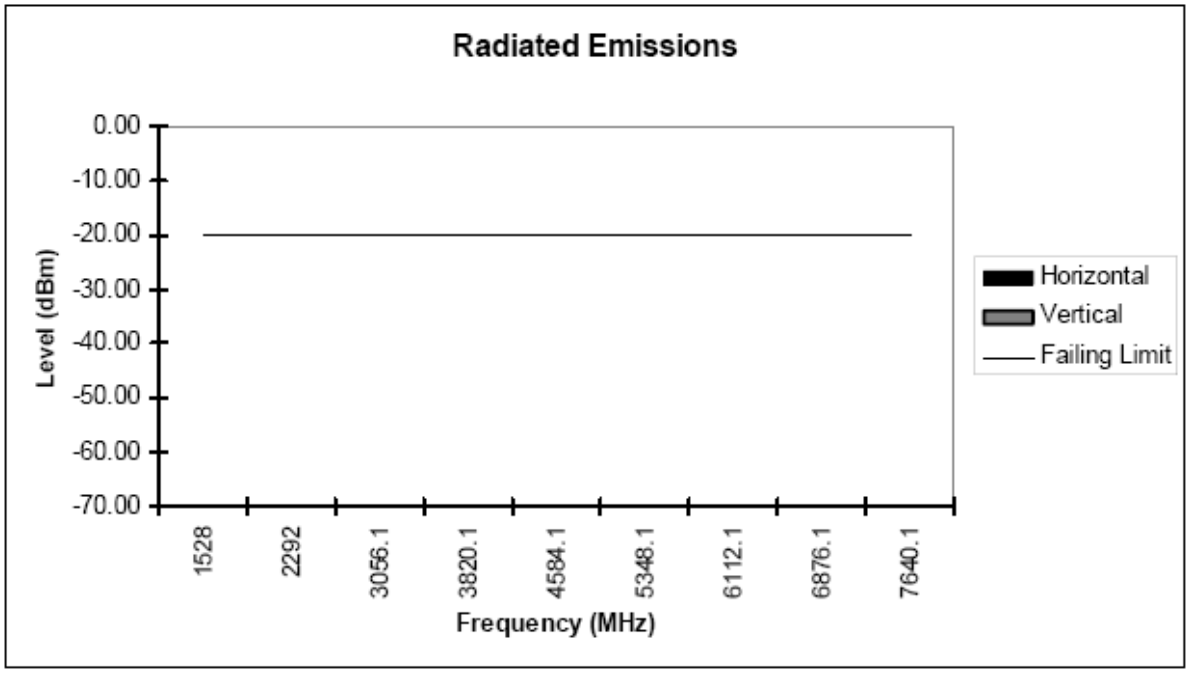



**Figure 6G-11**: 2W, 764.0125 MHz, 12.5 kHz Channel Spacing

| 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) |
|---|---|---|---|---|---|---|---|---|
| 1538.175 | -49.70 | H | 106 | 163 | -5.82 | -55.52 | -20.00 | 35.52 |
| | | | | | | | | |
| 1538.175 | -49.30 | V | 100 | 109 | -5.27 | -54.57 | -20.00 | 34.57 |
| 2307.2625 | -56.05 | V | 117 | 107 | -10.81 | -66.86 | -20.00 | 46.86 |

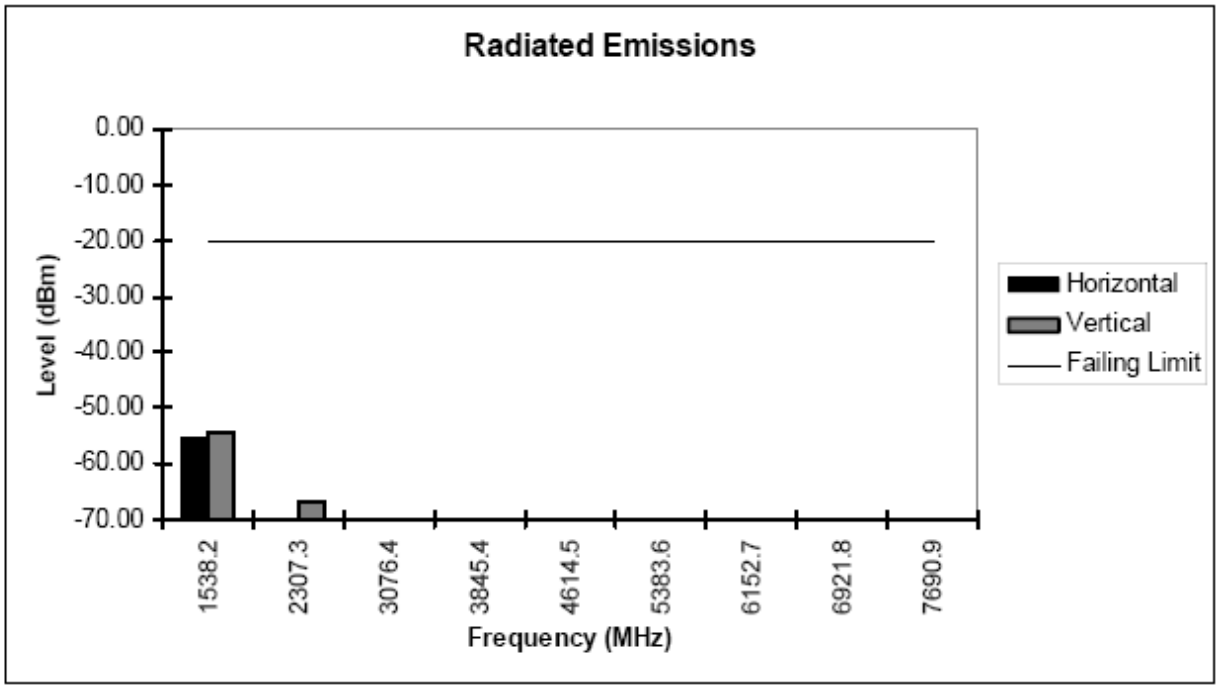



**Figure 6G-12**: 36W, 769.0875 MHz, 12.5 kHz Channel Spacing

| 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) |
|---|---|---|---|---|---|---|---|---|
| 1609.825 | -51.45 | H | 107 | 161 | -6.83 | -58.28 | -20.00 | 38.28 |
| 2414.7375 | -56.00 | H | 106 | 171 | -10.99 | -66.99 | -20.00 | 46.99 |
| 3219.65 | -57.70 | H | 100 | 203 | -5.98 | -63.68 | -20.00 | 43.68 |
| | | | | | | | | |
| 1609.825 | -49.30 | V | 101 | 102 | -5.23 | -54.53 | -20.00 | 34.53 |
| 2414.7375 | -55.25 | V | 100 | 104 | -5.04 | -60.29 | -20.00 | 40.29 |
| 3219.65 | -57.55 | V | 186 | 160 | -5.43 | -62.98 | -20.00 | 42.98 |

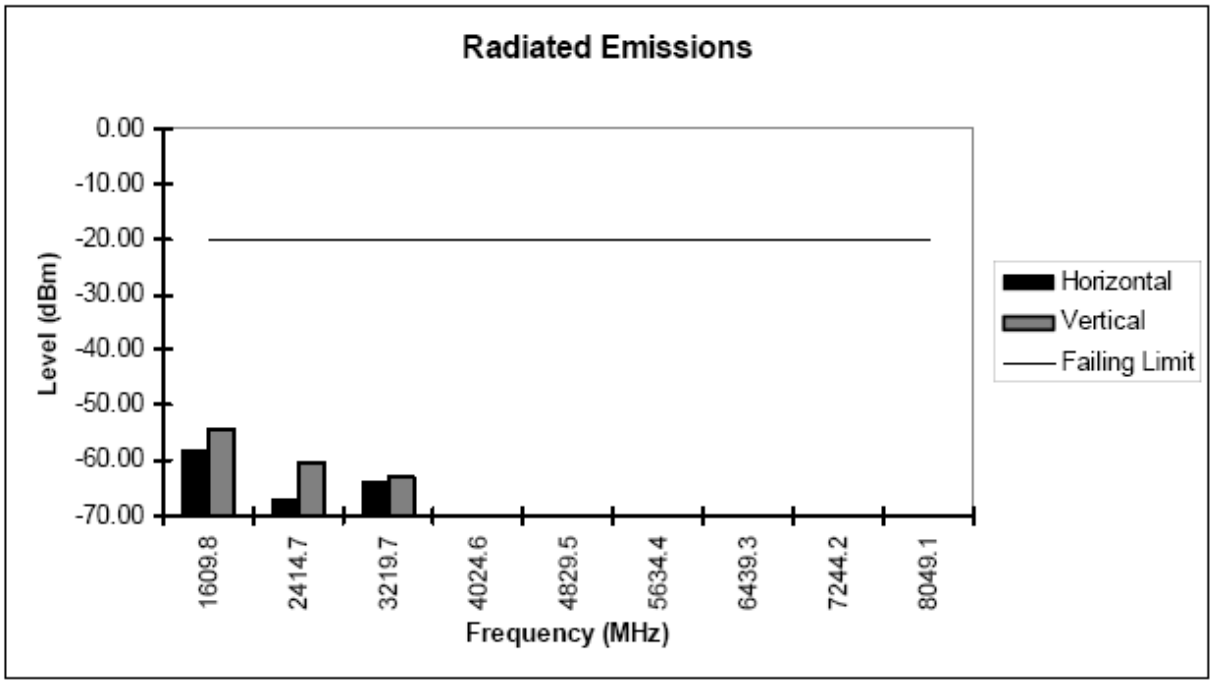



**Figure 6G-13**: 36W, 804.9125 MHz, 12.5 kHz Channel Spacing

| 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) |
|---|---|---|---|---|---|---|---|---|
| 1629.975 | -50.10 | H | 108 | 161 | -5.58 | -55.68 | -20.00 | 35.68 |
| 2444.9625 | -56.00 | H | 107 | 168 | -8.69 | -64.69 | -20.00 | 44.69 |
| 3259.95 | -56.45 | H | 105 | 239 | -0.08 | -56.53 | -20.00 | 36.53 |
| | | | | | | | | |
| 1629.975 | -47.65 | V | 100 | 102 | -4.48 | -52.13 | -20.00 | 32.13 |
| 2444.9625 | -54.05 | V | 100 | 103 | -2.04 | -56.09 | -20.00 | 36.09 |
| 3259.95 | -56.90 | V | 156 | 60 | 0.97 | -55.93 | -20.00 | 35.93 |

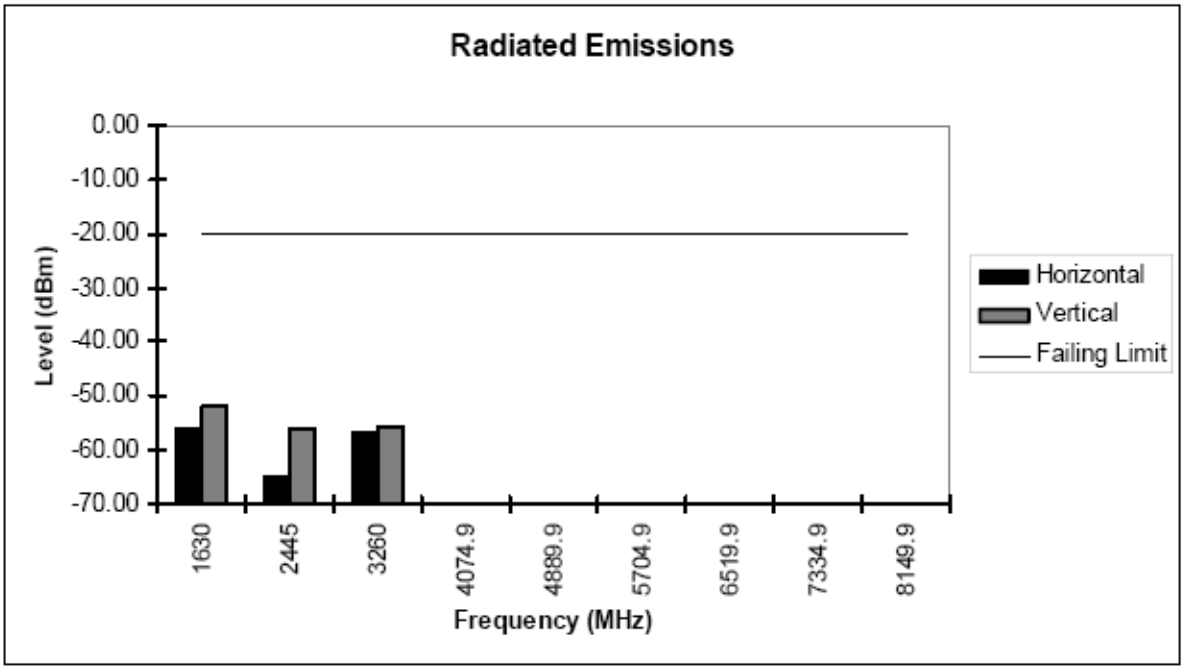



**Figure 6G-14**: 42W, 814.9125 MHz, 12.5 kHz Channel Spacing

| 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) |
|---|---|---|---|---|---|---|---|---|
| 1737.975 | -40.80 | H | 126 | 58 | -0.82 | -41.62 | -20.00 | 21.62 |
| 2606.9625 | -52.75 | H | 110 | 213 | -3.11 | -55.86 | -20.00 | 35.86 |
| 3475.95 | -57.70 | H | 164 | 220 | -2.09 | -59.79 | -20.00 | 39.79 |
| | | | | | | | | |
| 1737.975 | -51.35 | V | 100 | 89 | -5.37 | -56.72 | -20.00 | 36.72 |
| 2606.9625 | -52.00 | V | 100 | 245 | -1.71 | -53.71 | -20.00 | 33.71 |
| 3475.95 | -58.10 | V | 147 | 199 | -1.14 | -59.24 | -20.00 | 39.24 |

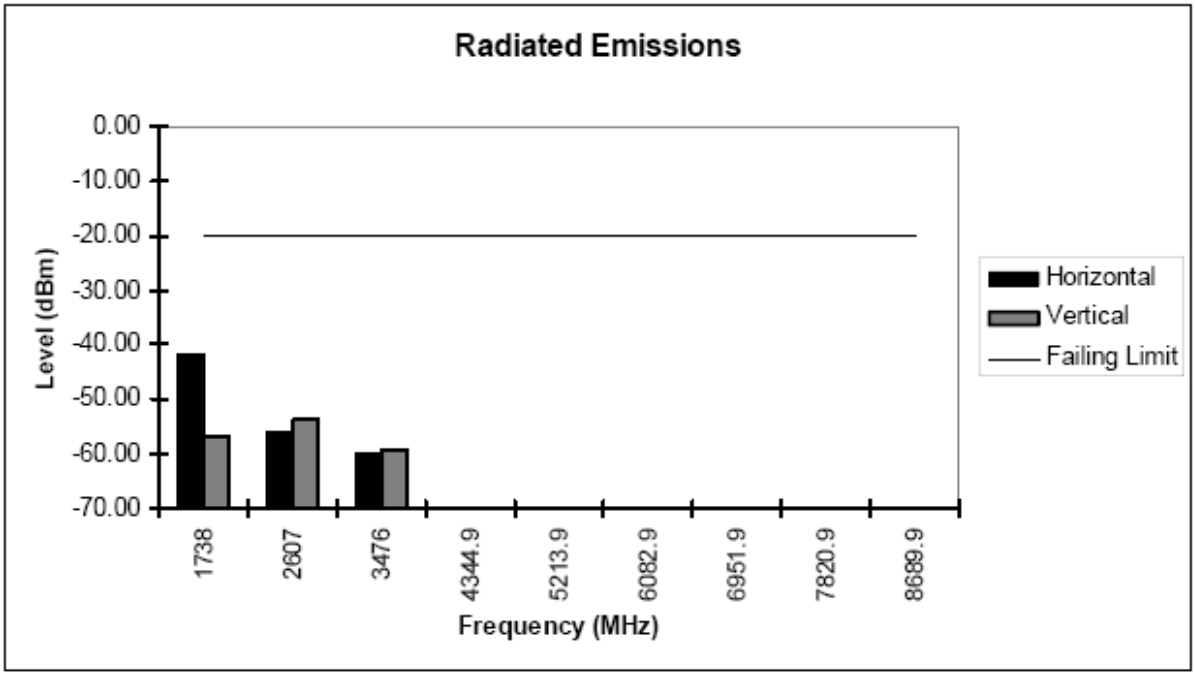



**Figure 6G-15**: 42W, 868.9875 MHz, 12.5 kHz Channel Spacing

**EXHIBIT 6H**
**Frequency Stability** - Pursuant 47 CFR 90.213, 90.539, 2.1055 and 2.1033(c)(13)

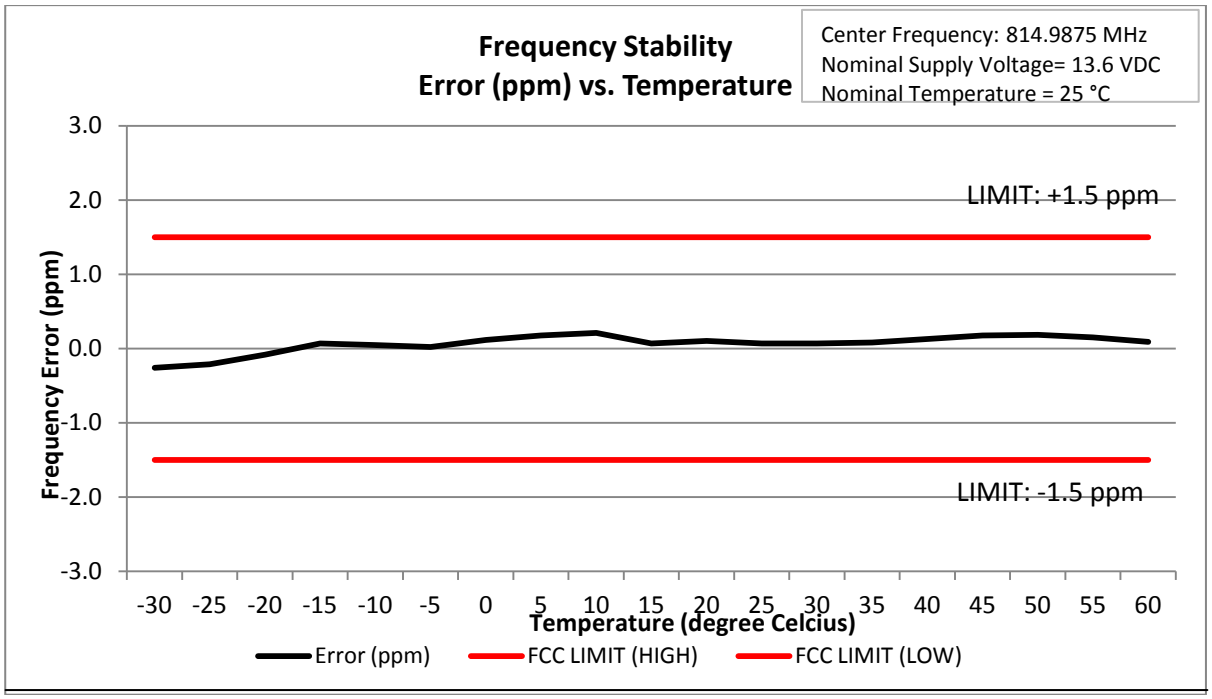
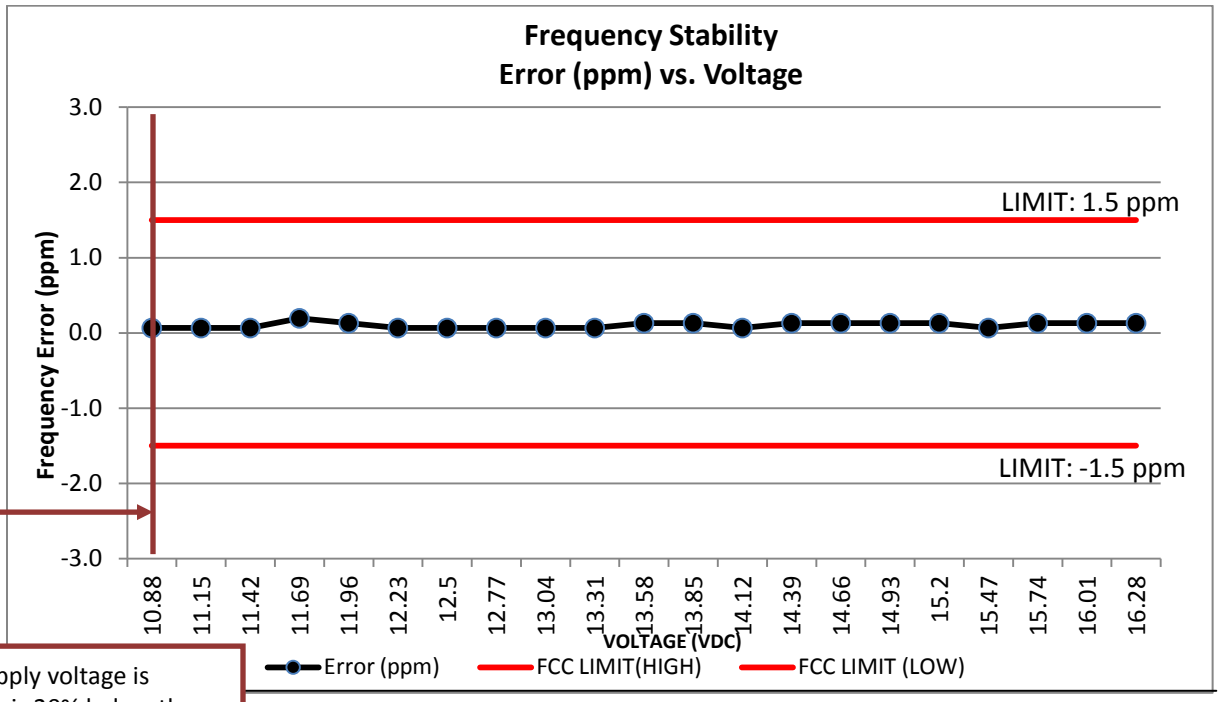



**Figure 6H-1**: Frequency Stability vs. Temperature, 814.9875MHz, -30°C to 60°C




Minimum supply voltage is 10.88V which is 20% below than the nominal supply voltage.

**Figure 6H-2**: Frequency Stability vs. Supply Voltage Change, 814.9875MHz

**EXHIBIT 6I**

**Adjacent Channel Coupled Power Ratios** – Pursuant 47 CFR 90.543 (a) and CFR 90.543 (b)

| 799.0875 MHz 25.0 kHz Channel Spacing ANALOG<br>Emission Designator 16K0F3E<br>Ref Power Level (dBm) = 45.6 | | | | | | |
|---|---|---|---|---|---|---|
| | Measurements | Resolution | | ACP (dBc) | | |
| Offset (kHz) | Bandwidth (kHz) | Bandwidth (Hz) | | Lower | Upper | Spec (dBc) |
| 15.625 | 6.25 | 100 | | -72.14 | -72.70 | -40 |
| 21.875 | 6.25 | 100 | | -83.41 | -83.46 | -60 |
| 37.50 | 25.00 | 300 | | -81.72 | -81.79 | -60 |
| 62.50 | 25.00 | 300 | | -85.16 | -85.13 | -65 |
| 87.50 | 25.00 | 300 | | -84.99 | -85.09 | -65 |
| 150.00 | 100.00 | 1100 | | -78.6 | -78.55 | -65 |
| 250.00 | 100.00 | 1100 | | -81.31 | -81.37 | -65 |
| 350.00 | 100.00 | 1100 | | -83.63 | -83.63 | -65 |
| >400kHz-12MHz | 30 (swept) | 30000 | | <-75 | | -75 |
| 12M-RX Band | 30 (swept) | 30000 | | <-75 | | -75 |
| in RX Band | 30 (swept) | 30000 | | <-100 | | -100 |

**Figure 6I-1**: 25 kHz Channel Spacing. 799.0875 MHz, Analog, 16K0F3E

| 799.0875 MHz 12.5 kHz Channel Spacing ANALOG<br>Emission Designator 11K0F3E<br>Ref Power Level (dBm) = 45.6 | | | | | | |
|---|---|---|---|---|---|---|
| | Measurements | Resolution | | | | |
| Offset (kHz) | Bandwidth (kHz) | Bandwidth (Hz) | | Lower | Upper | Spec (dBc) |
| 9.375 | 6.25 | 100 | | -55.54 | -55.42 | -40 |
| 15.625 | 6.25 | 100 | | -80.23 | -80.19 | -60 |
| 21.875 | 6.25 | 100 | | -85.41 | -85.39 | -60 |
| 37.50 | 25.00 | 300 | | -82.51 | -82.54 | -60 |
| 62.50 | 25.00 | 300 | | -84.89 | -84.87 | -65 |
| 87.50 | 25.00 | 300 | | -85.17 | -85.17 | -65 |
| 150.00 | 100.00 | 1100 | | -78.69 | -78.68 | -65 |
| 250.00 | 100.00 | 1100 | | -80.66 | -81.31 | -65 |
| 350.00 | 100.00 | 1100 | | -83.67 | -83.65 | -65 |
| >400kHz-12MHz | 30 (swept) | 30000 | | <-75 | | -75 |
| 12M-RX Band | 30 (swept) | 30000 | | <-75 | | -75 |
| in RX Band | 30 (swept) | 30000 | | <-100 | | -100 |

**Figure 6I-2**: 12.5 kHz Channel Spacing. 799.0875 MHz, Analog, 11K0F3E

| 799.0875 MHz 12.5 kHz Channel Spacing DIGITAL DATA<br>Emission Designator 8K10F1D<br>Ref Power Level (dBm) = 45.6 | | | | | | |
|---|---|---|---|---|---|---|
| | Measurements | Resolution | | ACP (dBc) | | |
| Offset (kHz) | Bandwidth (kHz) | Bandwidth (Hz) | | Lower | Upper | Spec (dBc) |
| 9.375 | 6.25 | 100 | | -42.62 | -42.89 | -40 |
| 15.625 | 6.25 | 100 | | -79.34 | -79.19 | -60 |
| 21.875 | 6.25 | 100 | | -83.21 | -83.09 | -60 |
| 37.50 | 25.00 | 300 | | -81.66 | -81.65 | -60 |
| 62.50 | 25.00 | 300 | | -85.18 | -85.11 | -65 |
| 87.50 | 25.00 | 300 | | -84.88 | -84.90 | -65 |
| 150.00 | 100.00 | 1100 | | -78.65 | -78.64 | -65 |
| 250.00 | 100.00 | 1100 | | -80.41 | -81.22 | -65 |
| 350.00 | 100.00 | 1100 | | -83.76 | -83.75 | -65 |
| >400kHz-12MHz | 30 (swept) | 30000 | | <-75 | | -75 |
| 12M-RX Band | 30 (swept) | 30000 | | <-75 | | -75 |
| in RX Band | 30 (swept) | 30000 | | <-100 | | -100 |

**Figure 6I-3**: 12.5 kHz Channel Spacing. 799.0875 MHz, APCO Digital Data, 8K0F1D

| 799.0875 MHz 12.5 kHz Channel Spacing DIGITAL VOICE<br>Emission Designator 8K10F1E<br>Ref Power Level (dBm) = 45.6 | | | | | | |
|---|---|---|---|---|---|---|
| | Measurements | Resolution | | ACP (dBc) | | |
| Offset (kHz) | Bandwidth (kHz) | Bandwidth (Hz) | | Lower | Upper | Spec (dBc) |
| 9.375 | 6.25 | 100 | | -40.50 | -42.89 | -40 |
| 15.625 | 6.25 | 100 | | -78.86 | -78.81 | -60 |
| 21.875 | 6.25 | 100 | | -83.61 | -83.62 | -60 |
| 37.50 | 25.00 | 300 | | -81.87 | -81.79 | -60 |
| 62.50 | 25.00 | 300 | | -85.17 | -85.06 | -65 |
| 87.50 | 25.00 | 300 | | -85.14 | -85.21 | -65 |
| 150.00 | 100.00 | 1100 | | -78.81 | -78.68 | -65 |
| 250.00 | 100.00 | 1100 | | -80.64 | -81.24 | -65 |
| 350.00 | 100.00 | 1100 | | -83.63 | -83.64 | -65 |
| >400kHz-12MHz | 30 (swept) | 30000 | | <-75 | | -75 |
| 12M-RX Band | 30 (swept) | 30000 | | <-75 | | -75 |
| in RX Band | 30 (swept) | 30000 | | <-100 | | -100 |

**Figure 6I-4**: 12.5 kHz Channel Spacing. 799.0875 MHz, APCO Digital Voice, 8K0F1E

| 799.0875 MHz 12.5 kHz Channel Spacing DIGITAL TDMA<br>Emission Designator 8K10F1W<br>Ref Power Level (dBm) = 45.6 | | | | | | |
|---|---|---|---|---|---|---|
| | Measurements | Resolution | | ACP (dBc) | | |
| Offset (kHz) | Bandwidth (kHz) | Bandwidth (Hz) | | Lower | Upper | Spec (dBc) |
| 9.37 | 6.25 | 100 | | -43.64 | -42.58 | -40 |
| 15.62 | 6.25 | 100 | | -76.51 | -76.81 | -60 |
| 21.87 | 6.25 | 100 | | -83.75 | -83.93 | -60 |
| 37.50 | 25.00 | 300 | | -79.76 | -79.35 | -60 |
| 62.50 | 25.00 | 300 | | -83.53 | -83.93 | -65 |
| 87.50 | 25.00 | 300 | | -82.13 | -82.77 | -65 |
| 150.0 | 100.00 | 1100 | | -77.64 | -77.25 | -65 |
| 250.0 | 100.00 | 1100 | | -78.34 | -78.82 | -65 |
| 350.0 | 100.00 | 1100 | | -82.95 | -82.57 | -65 |
| >400kHz-12MHz | 30 (swept) | 30000 | | <-75 | | -75 |
| 12M-RX Band | 30 (swept) | 30000 | | <-75 | | -75 |
| in RX Band | 30 (swept) | 30000 | | <-100 | | -100 |

**Figure 6I-5**: 12.5 kHz Channel Spacing. 799.0875 MHz, Phase II (TDMA), 8K0F1W

| 799.0875 MHz 12.5 kHz Channel Spacing DIGITAL VOICE ENCRYPTION<br>Emission Designator 8K10F1E<br>Ref Power Level (dBm) = 46.2 | | | | | | |
|---|---|---|---|---|---|---|
| | Measurements | Resolutio | | ACP (dBc) | | |
| Offset (kHz) | Bandwidth (kHz) | Bandwidth (Hz) | | Lower | Upper | Spec |
| 9.375 | 6.25 | 100 | | -43.64 | -42.58 | -40 |
| 15.625 | 6.25 | 100 | | -76.51 | -76.81 | -60 |
| 21.875 | 6.25 | 100 | | -83.75 | -83.93 | -60 |
| 37.50 | 25.00 | 300 | | -79.76 | -79.35 | -60 |
| 62.50 | 25.00 | 300 | | -83.53 | -83.93 | -65 |
| 87.50 | 25.00 | 300 | | -82.13 | -82.77 | -65 |
| 150.00 | 100.00 | 1100 | | -77.64 | -77.25 | -65 |
| 250.00 | 100.00 | 1100 | | -78.34 | -78.82 | -65 |
| 350.00 | 100.00 | 1100 | | -82.95 | -82.57 | -65 |
| >400kHz-12MHz | 30 (swept) | 30000 | | <-75 | | -75 |
| 12M-RX Band | 30 (swept) | 30000 | | <-75 | | -75 |
| in RX Band | 30 (swept) | 30000 | | <-100 | | -100 |

**Figure 6I-6**: 12.5 kHz Channel Spacing. 799.0875 MHz, APCO Digital Voice Encryption, 8K0F1E

**EXHIBIT 6J**
**1559-1610MHz Emissions (GNSS)** - Pursuant 47 CFR 90.543 (e)

## GNSS Testing

**Date:** July 9, 2012
**Product:** APX2500/4500 7/800 MHz Band **Antenna Polarity: H**

**Tx Freq:** 804.9125 MHz, 12.5kHz

| Spur | Frequency MHz | Peak Radiated Spurious Emissions: Analog Mode (dBm) | Peak Radiated Spurious Emissions: APCO Digital Mode (dBm) | Peak Radiated Spurious Emissions: Phase II TDMA Mode (dBm) |
|---|---|---|---|---|
| 2 X Fund | 1609.825 | -52.53 | -53.28 | -58.28 |

## GNSS Testing

**Date:** July 9, 2012
**Product:** APX2500/4500 7/800 MHz Band **Antenna Polarity: V**

**Tx Freq:** 804.9125 MHz, 12.5kHz

| Spur | Frequency MHz | Peak Radiated Spurious Emissions: Analog Mode (dBm) | Peak Radiated Spurious Emissions: APCO Digital Mode (dBm) | Peak Radiated Spurious Emissions: Phase II TDMA Mode (dBm) |
|---|---|---|---|---|
| 2 X Fund | 1609.825 | -56.28 | -53.23 | -54.53 |