

EXHIBIT 6

INDEX OF SUBMITTED MEASURED DATA

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

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- 6B-3: 12.5 KHz Channel Spacing, 429.9875 MHz, Transmit Audio Frequency Response
- 6B-4: 12.5 KHz Channel Spacing, 436.125 MHz, Transmit Audio Frequency Response
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- 6E-3: 436.125MHz, 12.5KHz Channel Spacing, 4FSK Data only
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- 6F-1: 2.4 Watt Harmonic of Carrier 403.125 MHz, 12.5 kHz Channel Spacing
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- 6F-3: 2.4 Watt Harmonic of Carrier 429.9875 MHz, 12.5 kHz Channel Spacing
- 6F-4: 2.4 Watt Harmonic of Carrier 436.125 MHz, 12.5 kHz Channel Spacing
- 6F-5: 2.4 Watt Harmonic of Carrier 469.9875 MHz, 12.5 kHz Channel Spacing

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- 6G-1: 2.4 Watts, 403.0125 MHz, 12.5 kHz Channel Spacing
- 6G-2: 2.4 Watts, 406.1125 MHz, 12.5 kHz Channel Spacing
- 6G-3: 2.4 Watts, 429.9875 MHz, 12.5 kHz Channel Spacing
- 6G-4: 2.4 Watts, 436.0125 MHz, 12.5 kHz Channel Spacing
- 6G-5: 2.4 Watts, 469.9875 MHz, 12.5 kHz Channel Spacing

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EXHIBIT 6A

RF Conducted Output Power Data:

Frequency 403.125 MHz:

Output RF power	2.40 Watts
DC Voltage	3.70 Volts
DC Current	1.67 Amps

Frequency 406.1125 MHz:

Output RF power	2.40 Watts
DC Voltage	3.70 Volts
DC Current	1.67 Amps

Frequency 429.9875 MHz:

Output RF power	2.40 Watts
DC Voltage	3.70 Volts
DC Current	1.75 Amps

Frequency 436.125 MHz:

Output RF power	2.40 Watts
DC Voltage	3.70 Volts
DC Current	1.89 Amps

Frequency 469.9875 MHz:

Output RF power	2.40 Watts
DC Voltage	3.70 Volts
DC Current	1.88 Amps

EXHIBIT 6B

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

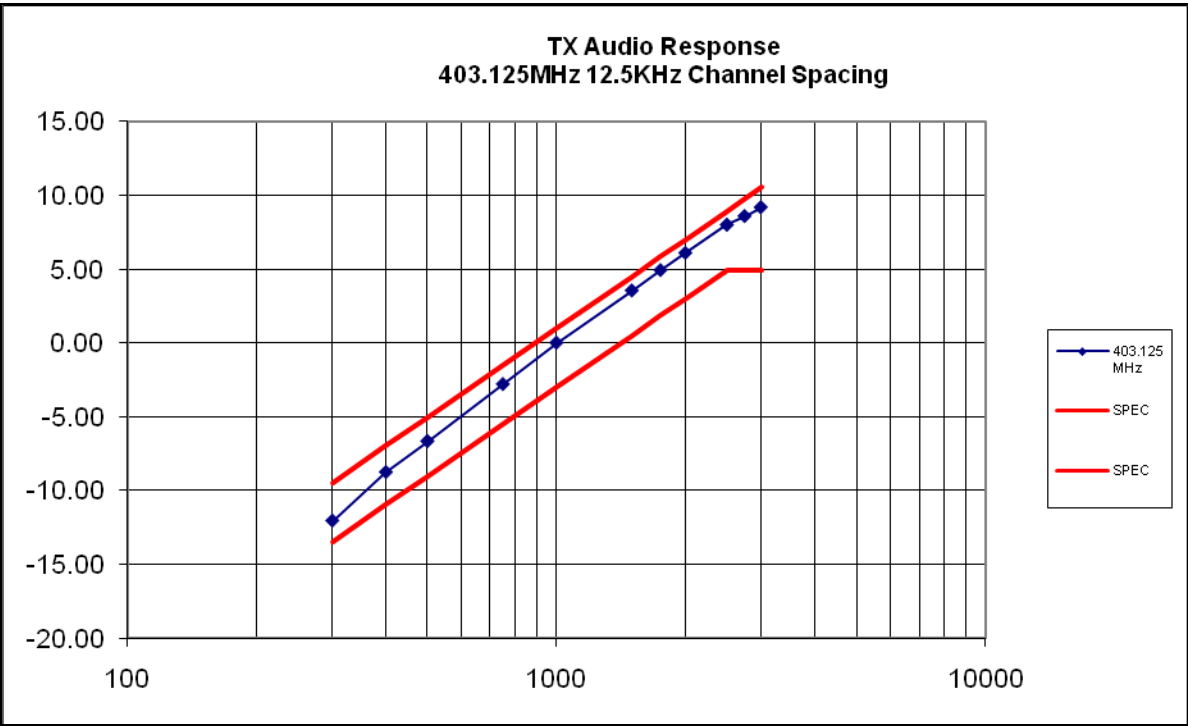


Figure 6B-1: 12.5 KHz Channel Spacing, 403.125 MHz, Transmit Audio Frequency Response (Not for FCC Review)

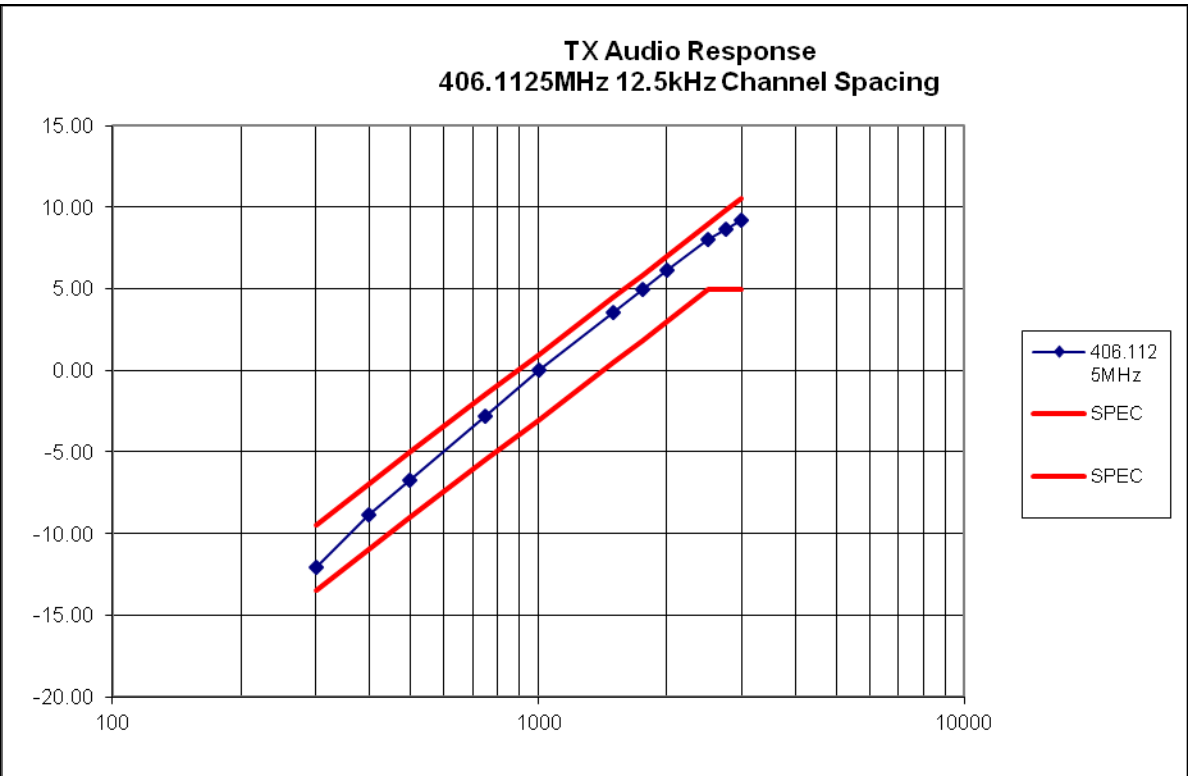


Figure 6B-2: 12.5 KHz Channel Spacing, 406.1125 MHz, Transmit Audio Frequency Response

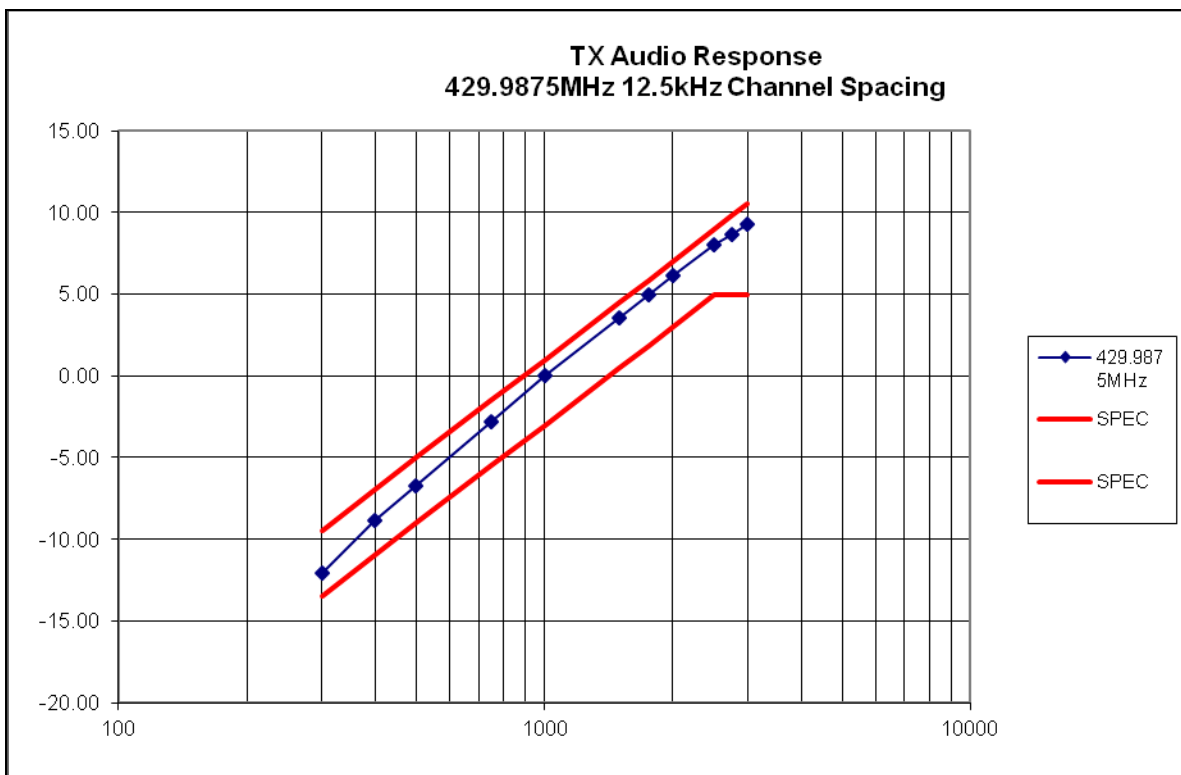


Figure 6B-3: 12.5 KHz Channel Spacing, 429.9875 MHz, Transmit Audio Frequency Response

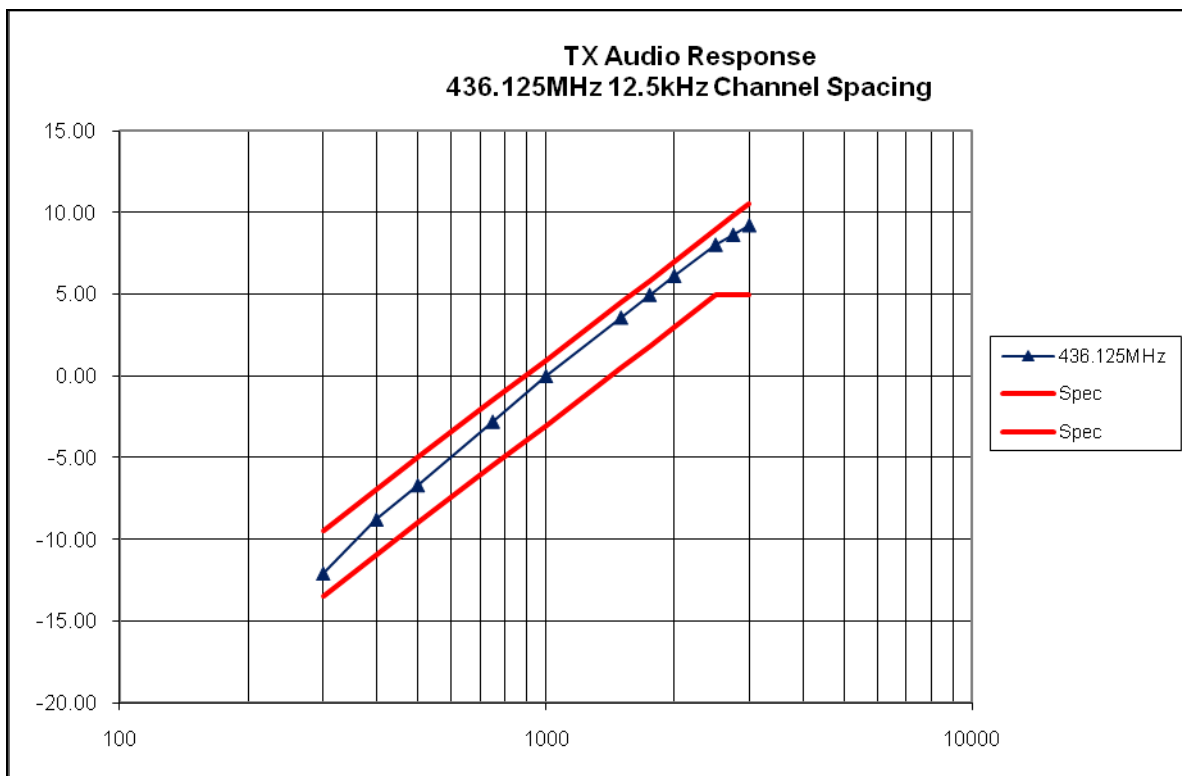


Figure 6B-4: 12.5 KHz Channel Spacing, 436.125 MHz, Transmit Audio Frequency Response

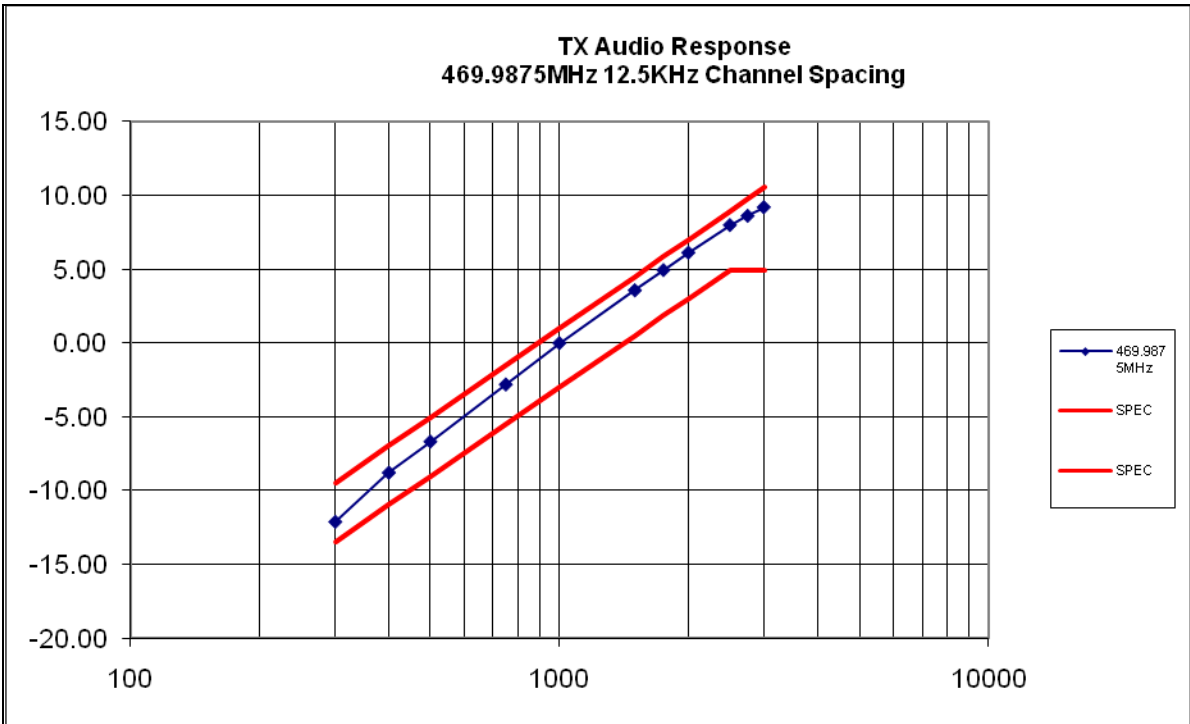


Figure 6B-5: 12.5 KHz Channel Spacing, 469.9875 MHz, Transmit Audio Frequency Response

EXHIBIT 6C

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

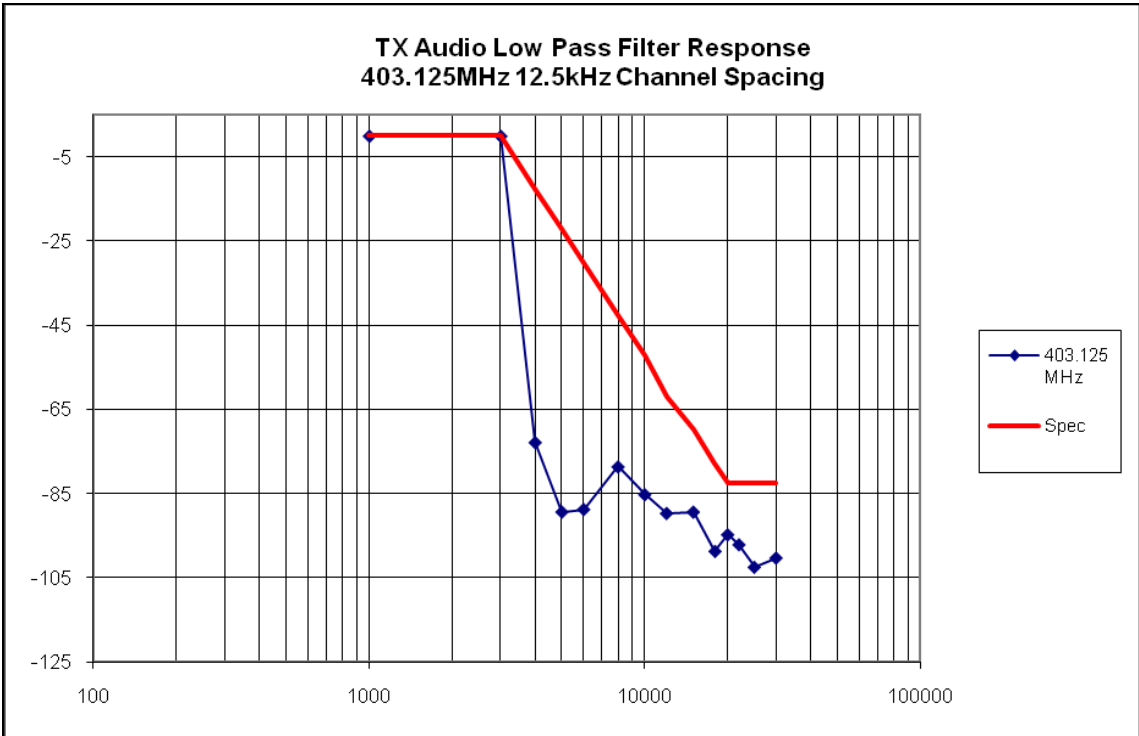


Figure 6C-1: 12.5 KHz Channel Spacing, 403.125 MHz, Transmit Audio Low Pass Filter Response
(Not for FCC Review)

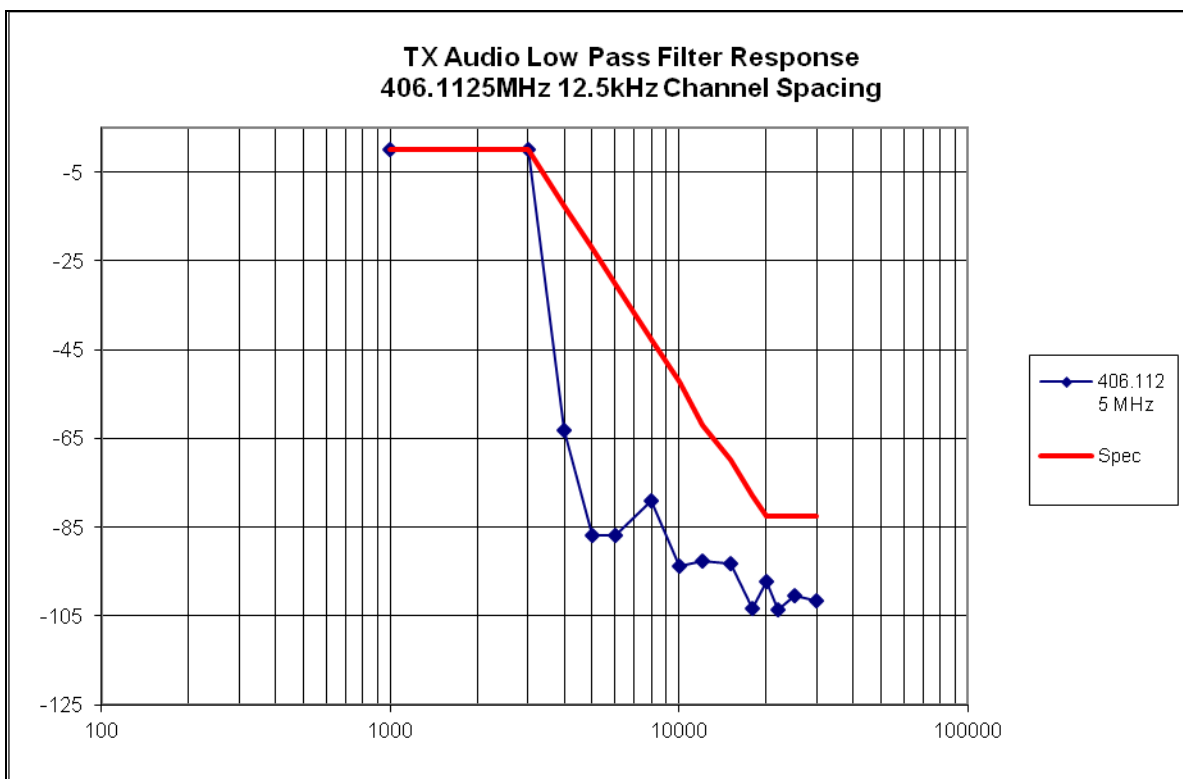


Figure 6C-2: 12.5 KHz Channel Spacing, 406.1125 MHz, Transmit Audio Low Pass Filter Response

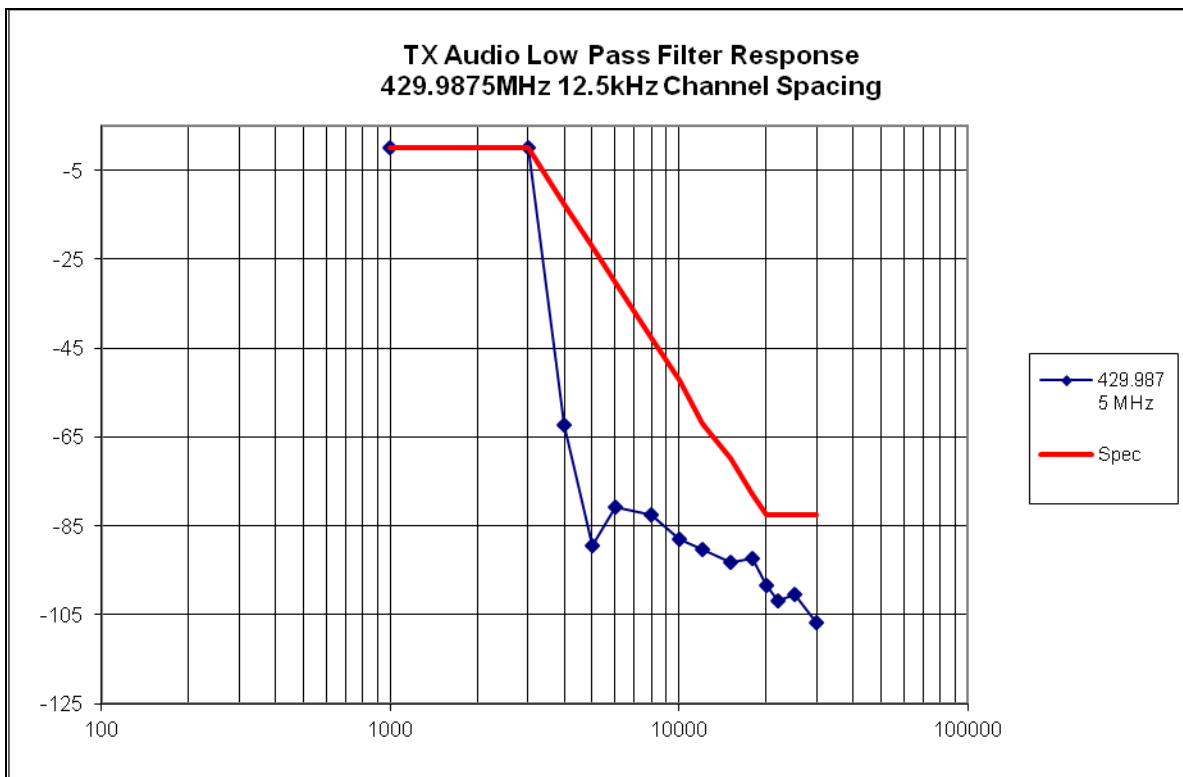


Figure 6C-3: 12.5 KHz Channel Spacing, 429.9875 MHz, Transmit Audio Low Pass Filter Response

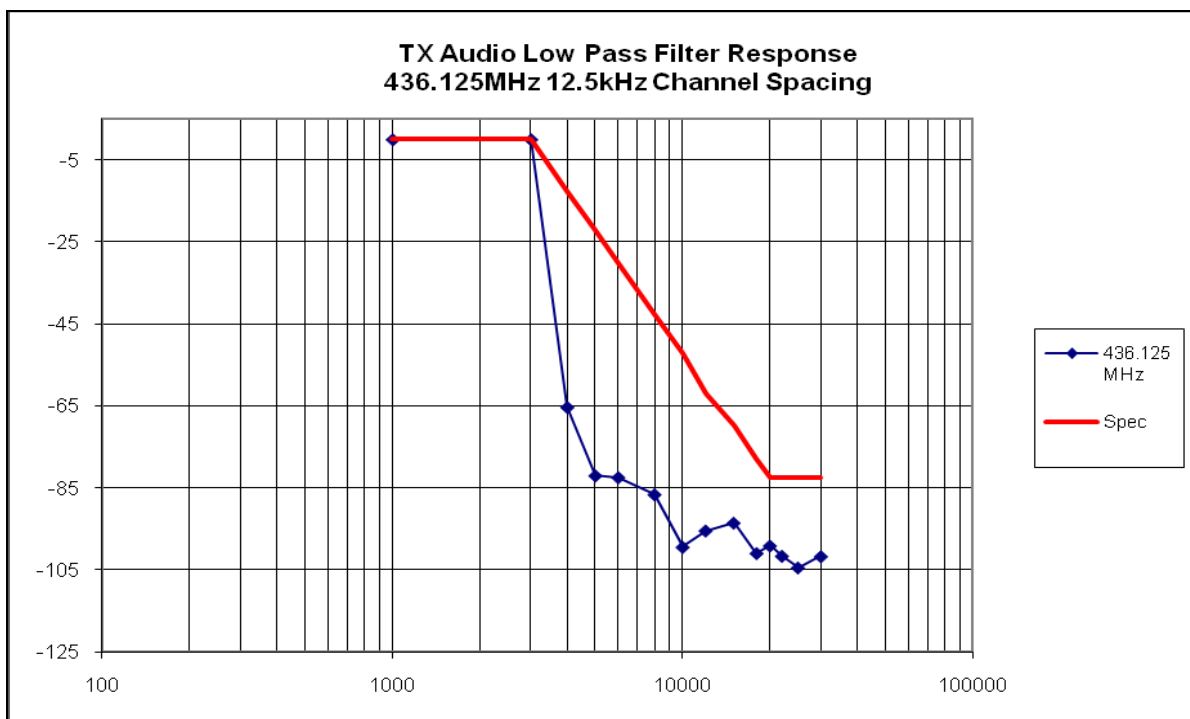


Figure 6C-4: 12.5 KHz Channel Spacing, 436.125 MHz, Transmit Audio Low Pass Filter Response

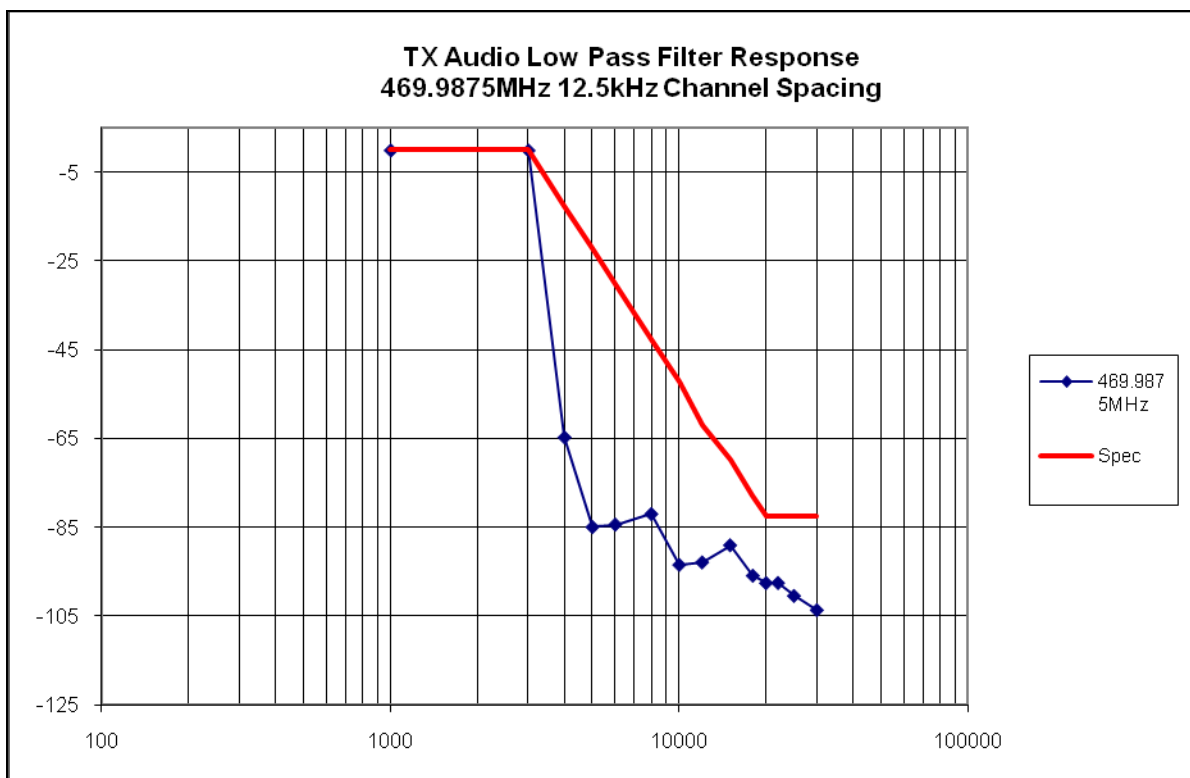


Figure 6C-5: 12.5 KHz Channel Spacing, 469.9875 MHz, Transmit Audio Low Pass Filter Response

EXHIBIT 6D

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

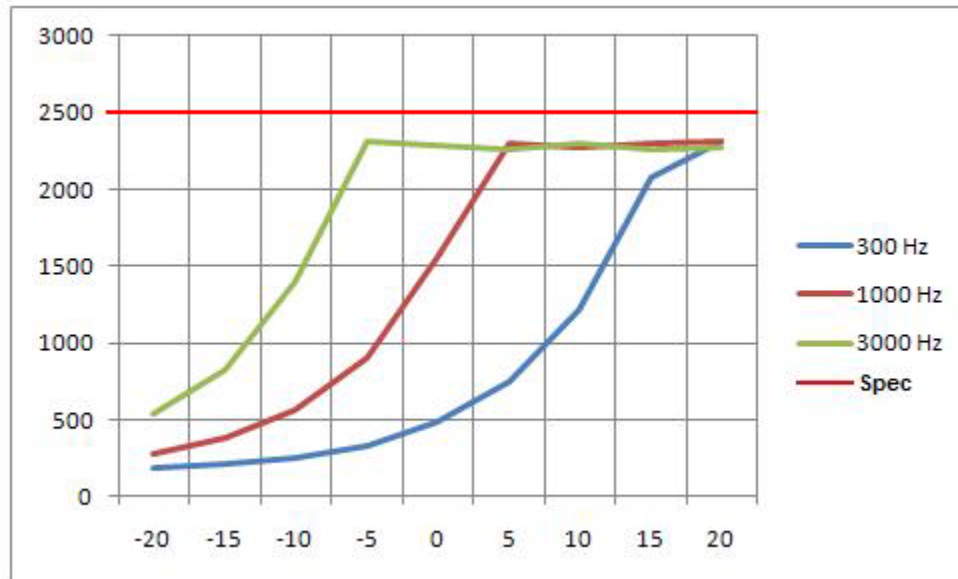


Figure 6D-1: 12.5 KHz Channel Spacing, 403.125 MHz (Not for FCC Review)

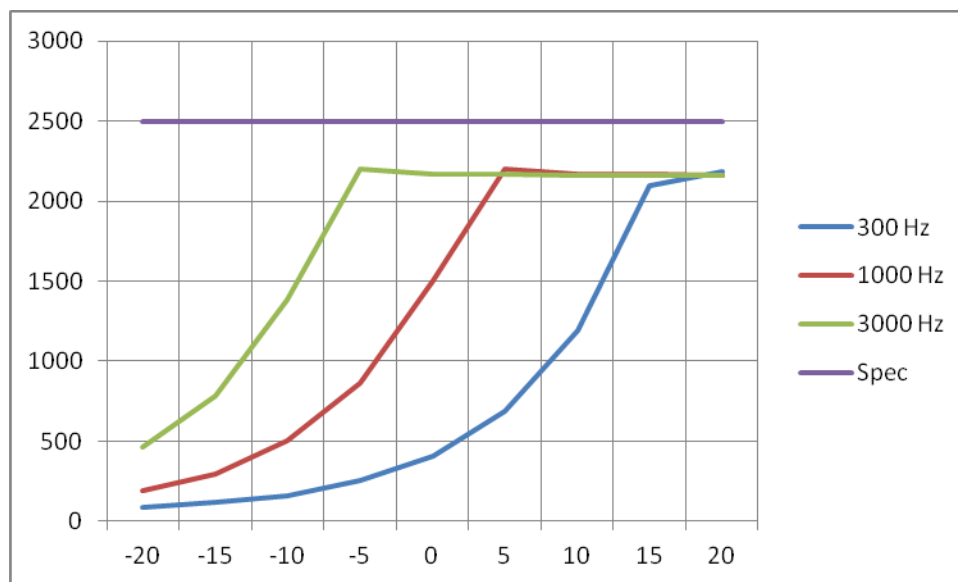


Figure 6D-2: 12.5 KHz Channel Spacing, 406.1125 MHz

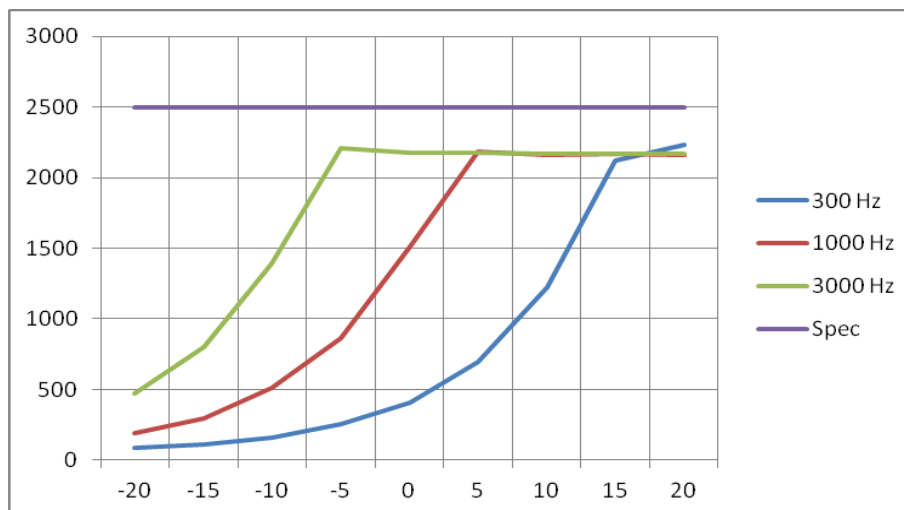
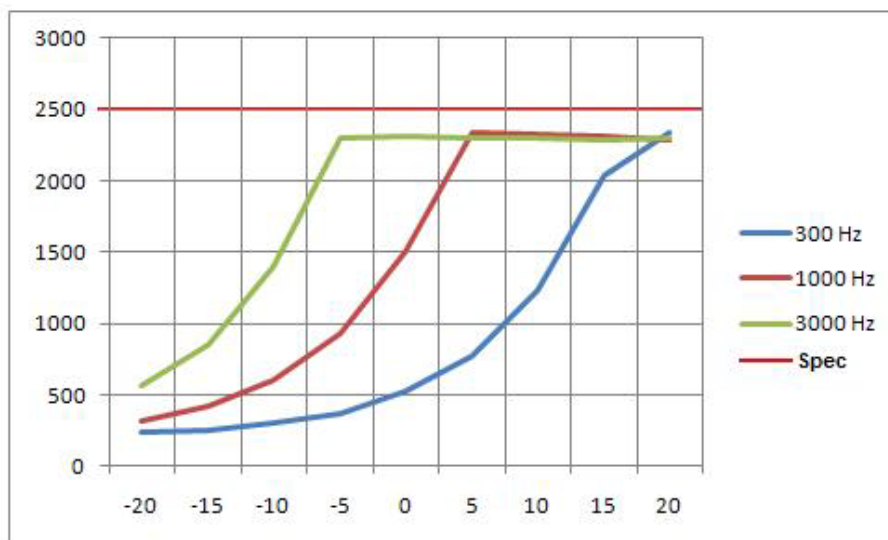
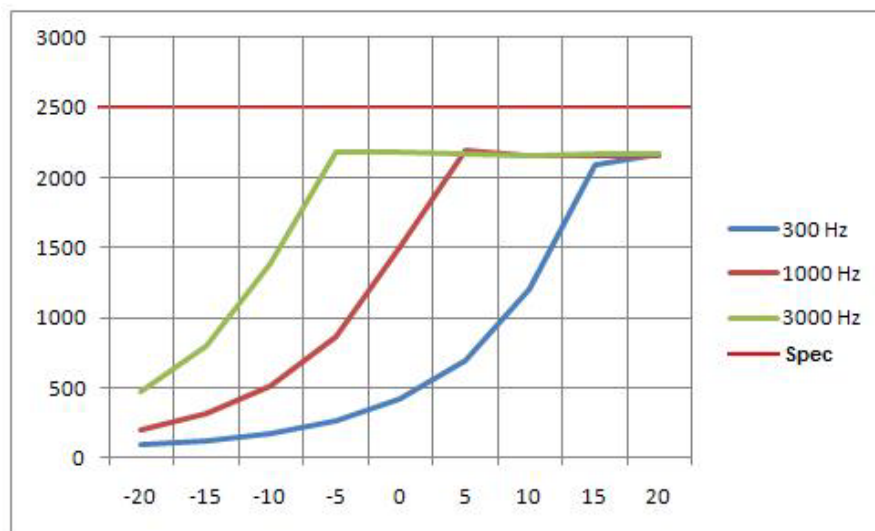
**Figure 6D-3:** 12.5 KHz Channel Spacing, 429.9875 MHz**Figure 6D-4:** 12.5 KHz Channel Spacing, 436.125 MHz**Figure 6D-5:** 12.5 KHz Channel Spacing, 469.9875 MHz

EXHIBIT 6E

The transmitter is capable of the following types of modulation:

- i) Modulation of 9600 bps 4 level FSK Data

4 Level FSK Digital Modulation Techniques

The modulation sends 4800 symbols/sec with each symbol conveying 2 bits of information for a data rate of 9600 bps in a 12.5 kHz channel, which is equivalent to 4800 bps per 6.25 kHz. The maximum deviation D , of the symbol is defined as:

$$D = 3h / 2T$$

where:

h is the deviation index defined for the modulation

T is the symbol time (1/4800) in seconds

The deviation index, h , is 0.27. This yields a symbol deviation of 1.944 kHz at the symbol center. The mapping between symbols and bits is shown below:

Information Bits		Symbol	4FSK Deviation
Bit 1	Bit 0		
0	1	+3	+1.944 kHz
0	0	+1	+0.648 kHz
1	0	-1	-0.648 kHz
1	1	-3	-1.944 kHz

A Square Root Raised Cosine Filter is implemented for the modulation low pass filter. The input to the modulation low pass filter consists of a series of impulses separated in time by 208.33 microseconds (1/4800 sec). The group delay of the filter is flat over the passband for $|f| < 2880$ Hz. The magnitude response of the filter is given by the following formula.

$|F(f)|$ = magnitude response of the Square Root Raised Cosine Filter

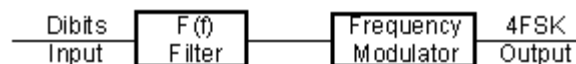
$|F(f)| = 1$ for $|f| \leq 1920$ Hz

$|F(f)| = |\cos(\pi f / 1920)|$ for $1920 \text{ Hz} < |f| \leq 2880 \text{ Hz}$

$|F(f)| = 0$ for $|f| > 2880 \text{ Hz}$

where f = frequency in hertz.

The 4FSK modulator consists of a Square Root Raised Cosine Filter, cascaded with a frequency modulator.



4 Level FSK Digital Modulation (12.5 kHz Channelization, Digital Data)

Measurement's per Rule Part 2.202(c)(4) where employed because Part 2.202(g) Table III A formulation produces an excessive result using the value of K recommended in the Table. Therefore, the 99% energy rule (Title 47 CFR 2.989) was used for digital mode and is more accurate than Carson's rule. It states that 99% of the modulation energy falls within X kHz, which in this case is 7.6 kHz (**7K60** designator).

Per CFR Title 47, Part 2, Section 2.201:

Frequency Modulation.....	F
A single channel containing quantized or digital information without the use of a modulating sub-carrier, excluding time-division multiplex.....	1
Data Transmission, telemetry, telecommand	D

Note: This product utilizes a Time Division Multiple Access (TDMA) protocol.

The complete emissions designator for this transmitter is **7K60F1D**.

4 Level FSK Digital Modulation (12.5 kHz Channelization, Digital Voice and Data)

Measurement's per Rule Part 2.202(c)(4) where employed because Part 2.202(g) Table III A formulation produces an excessive result using the value of K recommended in the Table. Therefore the 99% energy rule (title 47CFR2.989) was used for digital mode and is more accurate than Carson's rule. It states that 99% of the modulation energy falls within X kHz, which in this case is 7.6 kHz (**7K60** designator).

Per CFR Title 47, Part 2, Section 2.201:

Frequency Modulation.....	F
A single channel containing quantized or digital information without the use of a modulating sub-carrier, excluding time-division multiplex.....	1
Telephony (including sound broadcasting).....	E

Note: This product utilizes a Time Division Multiple Access (TDMA) protocol.

The complete emissions designator for this transmitter is **7K60F1E**.

Digital (12.5 kHz Channelization, Digital TDMA)

Measurement's per Rule Part 2.202(c)(4) where employed because Part 2.202(g) Table III A formulation produces an excessive result using the value of K recommended in the Table. Therefore the 99% energy rule (title 47CFR2.989) was used for digital mode and is more accurate than Carson's rule. It states that 99% of the modulation energy falls within X kHz, which in this case is 7.6 kHz (**7K60** designator).

Per CFR Title 47, Part 2, Section 2.201:

Frequency Modulation.....	F
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A single channel containing quantized or digital information without the use of a
modulating sub-carrier, excluding time-division multiplex..... 1
Combination of Data Transmission, telemetry, telecommand (D), and Telephony (E)
... W

Note: This product utilizes a Time Division Multiple Access (TDMA) protocol.

The complete emissions designator for this transmitter is **7K60F1W**.

4 Level FSK Digital Modulation (12.5 kHz Channelization, Digital Data)

Measurement's per Rule Part 2.202(c)(4) where employed because Part 2.202(g) Table III A formulation produces an excessive result using the value of K recommended in the Table. Therefore, the 99% energy rule (Title 47 CFR 2.989) was used for digital mode and is more accurate than Carson's rule. It states that 99% of the modulation energy falls within X kHz, which in this case is 7.6 kHz (**7K60** designator).

Per CFR Title 47, Part 2, Section 2.201:

Frequency Modulation.....	F
Case not otherwise covered.....	X
Data Transmission, telemetry, telecommand.....	D

Note: This product utilizes a Time Division Multiple Access (TDMA) protocol.

The complete emissions designator for this transmitter is **7K60FXD**.

4 Level FSK Digital Modulation (12.5 kHz Channelization, Digital Voice and Data)

Measurement's per Rule Part 2.202(c)(4) where employed because Part 2.202(g) Table III A formulation produces an excessive result using the value of K recommended in the Table. Therefore the 99% energy rule (title 47CFR2.989) was used for digital mode and is more accurate than Carson's rule. It states that 99% of the modulation energy falls within X kHz, which in this case is 7.6 kHz (**7K60** designator).

Per CFR Title 47, Part 2, Section 2.201:

Frequency Modulation.....	F
Case not otherwise covered.....	X
Telephony (including sound broadcasting).....	E

Note: This product utilizes a Time Division Multiple Access (TDMA) protocol.

The complete emissions designator for this transmitter is **7K60FXE**.

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

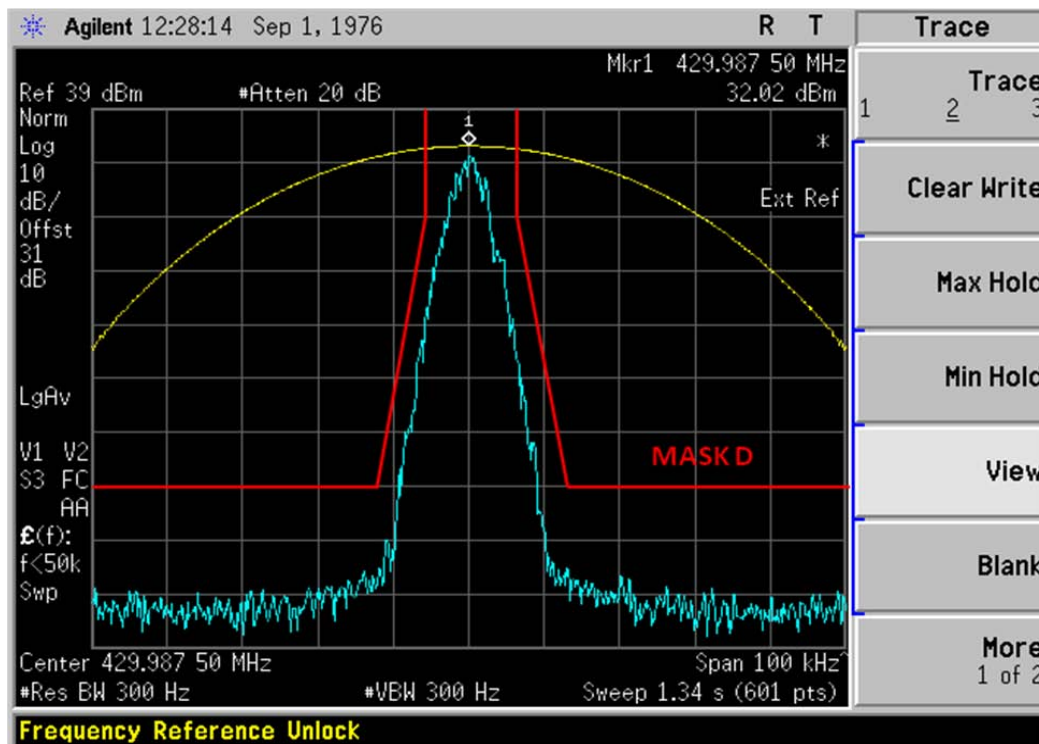


Figure 6E-1: 429.9875MHz, 12.5KHz Channel Spacing, 4FSK Data only

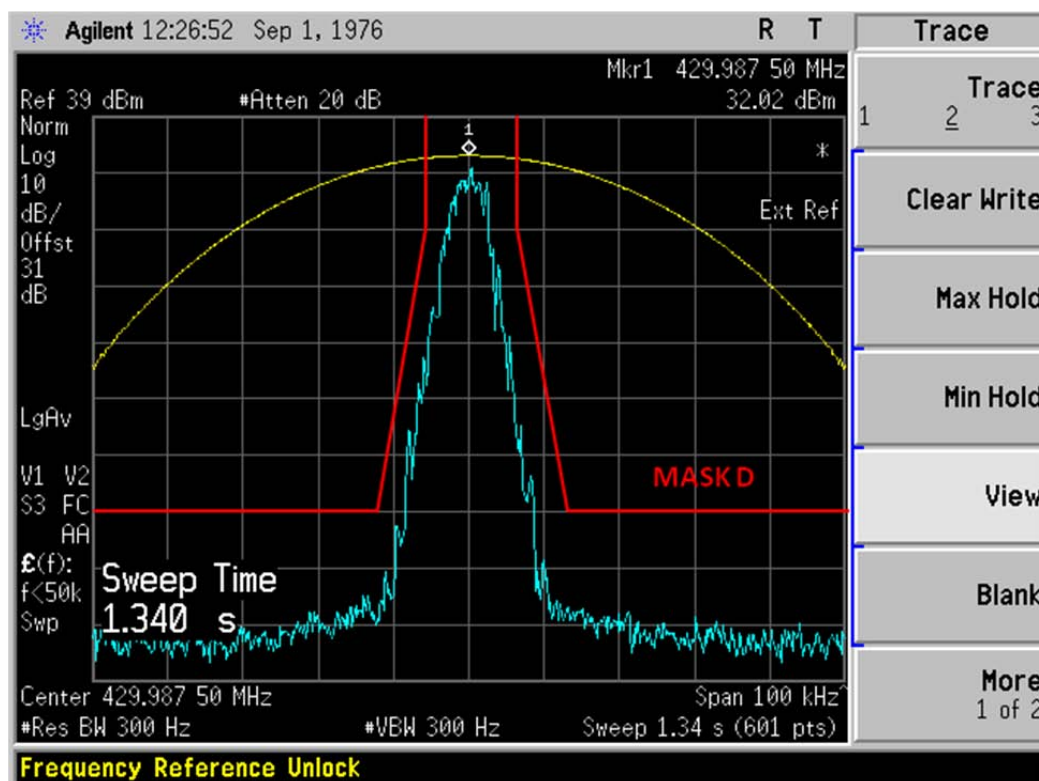


Figure 6E-2: 429.9875MHz, 12.5 kHz Channel Spacing, 4FSK Voice and Data

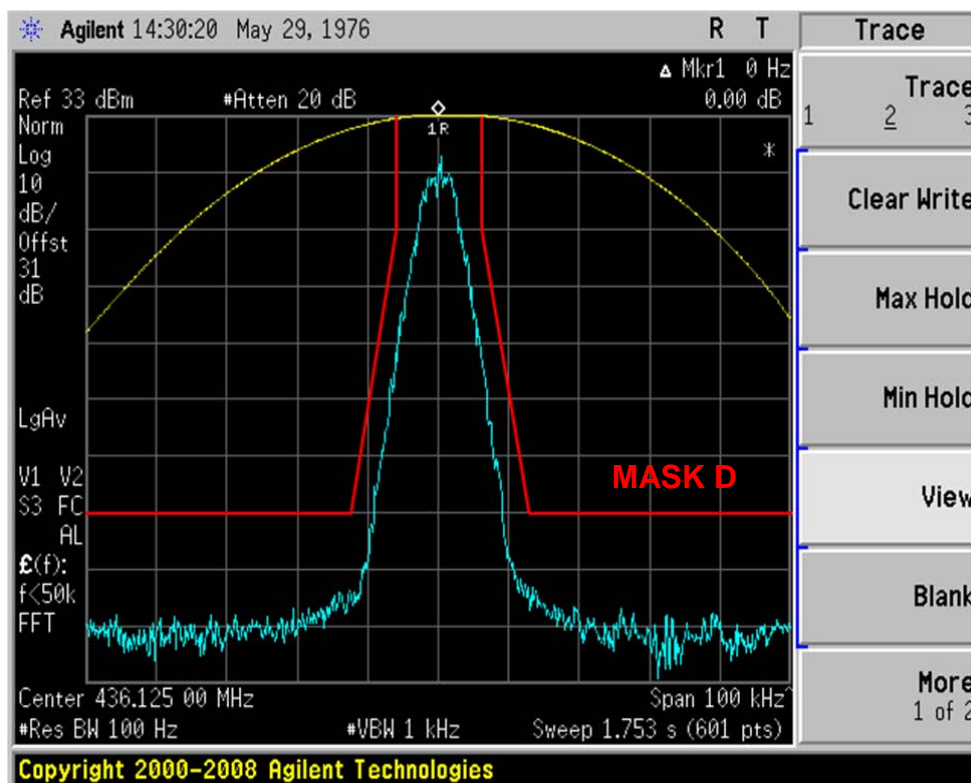


Figure 6E-1: 436.125MHz, 12.5KHz Channel Spacing, 4FSK Data only

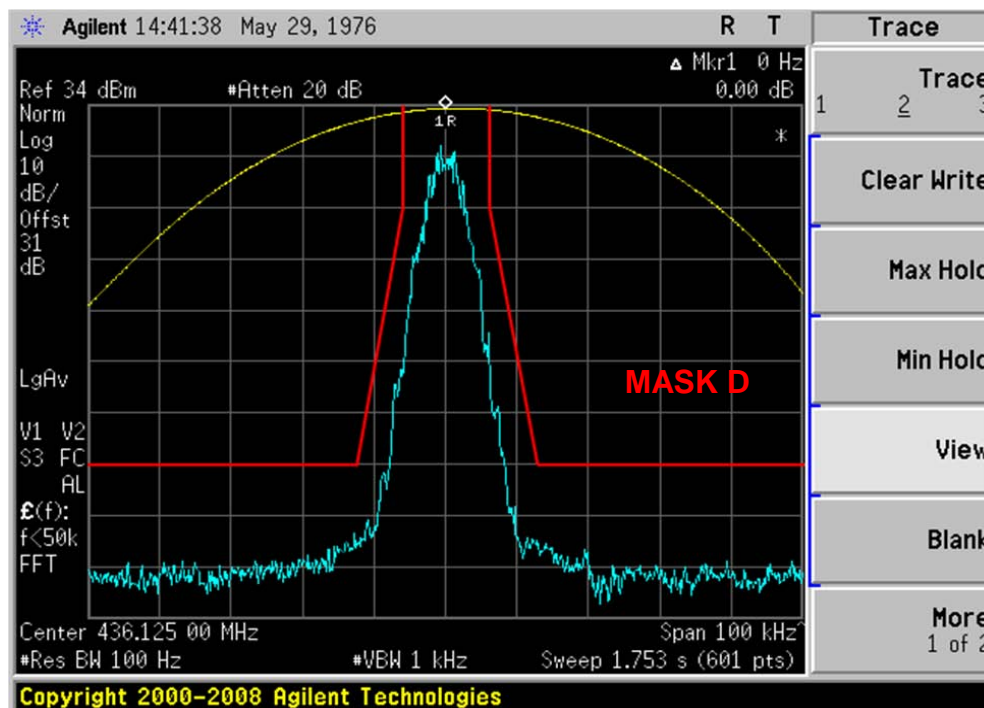


Figure 6E-2: 436.125MHz, 12.5 kHz Channel Spacing, 4FSK Voice and Data

EXHIBIT 6F

Transmitter Conducted Spurious Emissions - Pursuant 47 CFR 2.1047 and 2.1033(c) (13)
Note: Display lines on graphs correspond to the FCC limit of -53dBm (12.5 kHz).

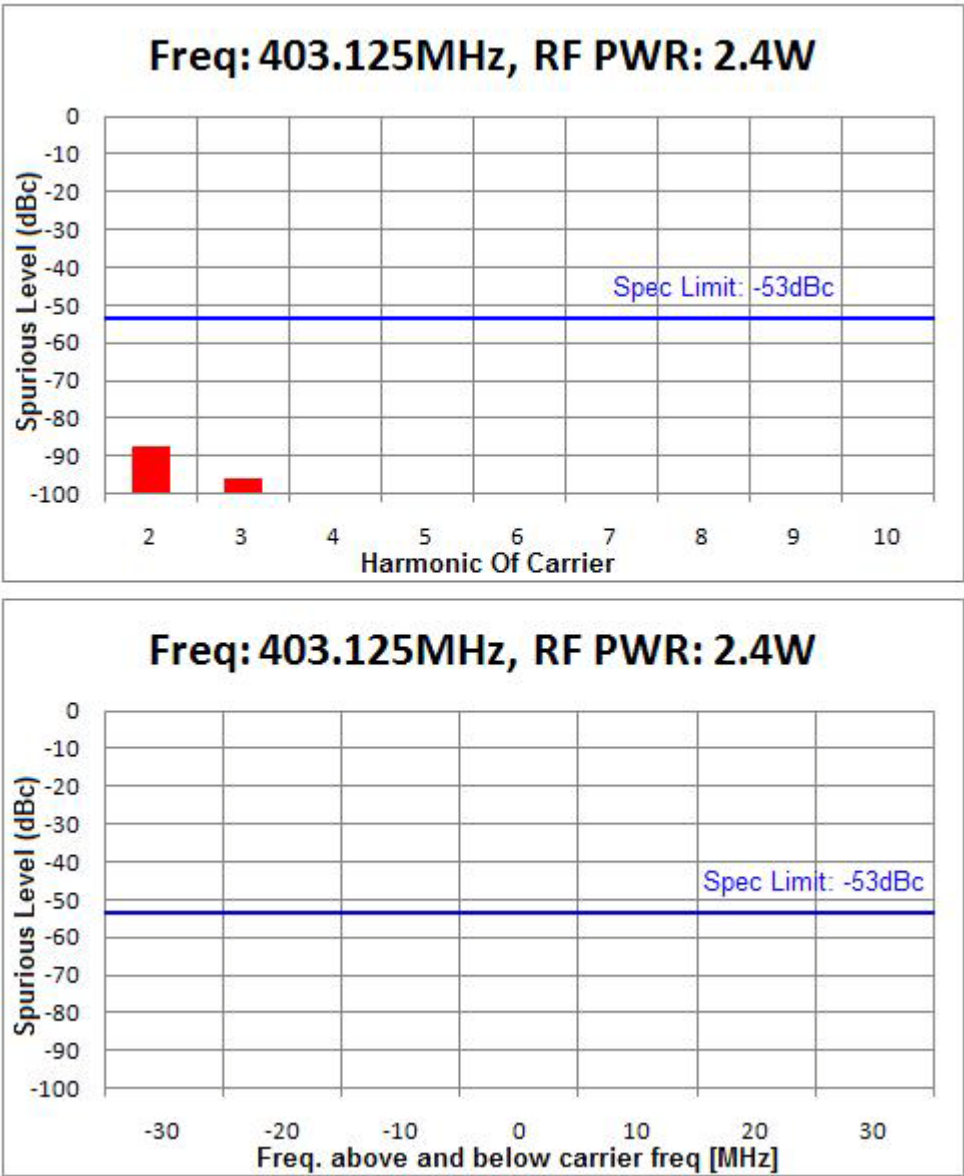


Table 6F-1: 2.4 Watt Harmonic of Carrier 403.125 MHz, 12.5 KHz Channel Spacing (Not for FCC Review)

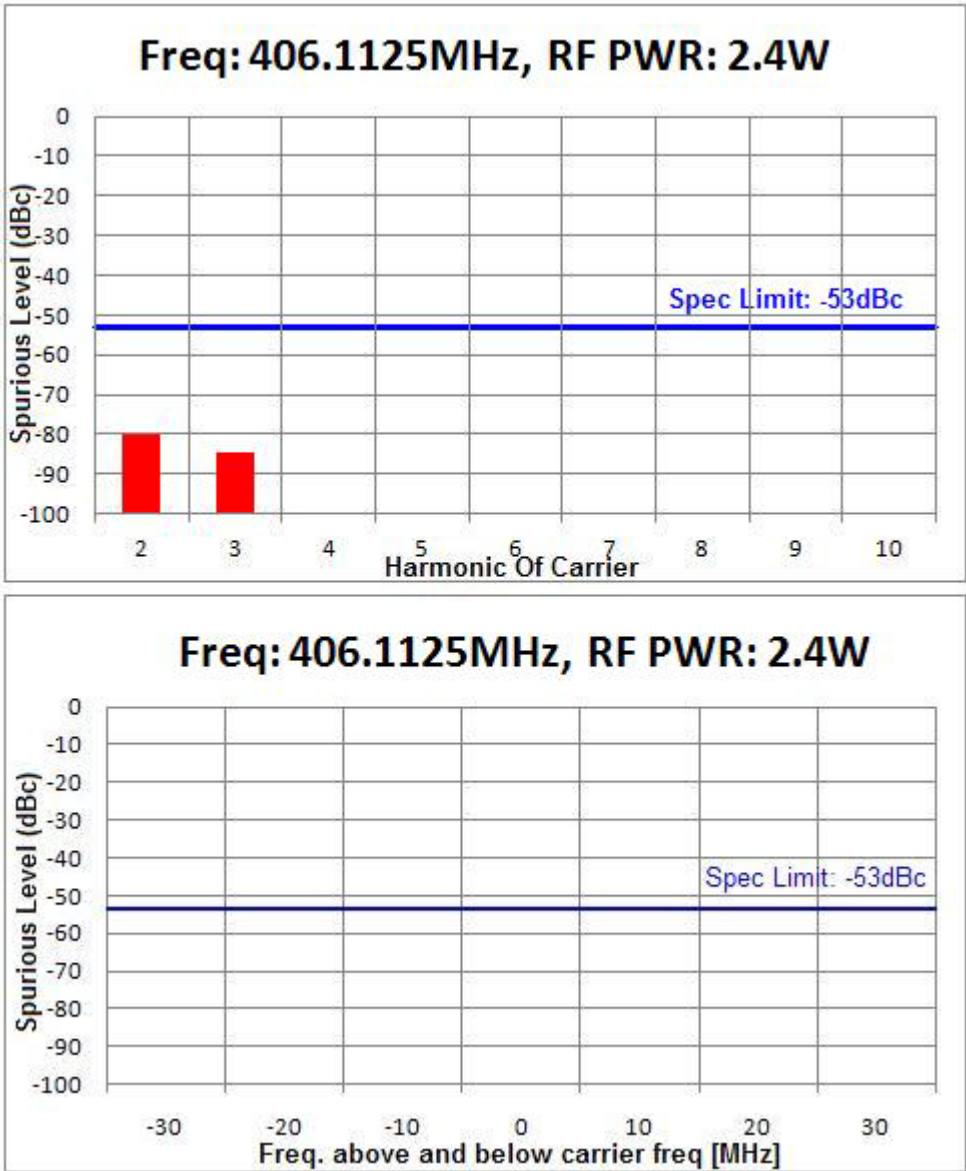


Table 6F-2: 2.4 Watt Harmonic of Carrier 406.1125 MHz, 12.5 KHz Channel Spacing

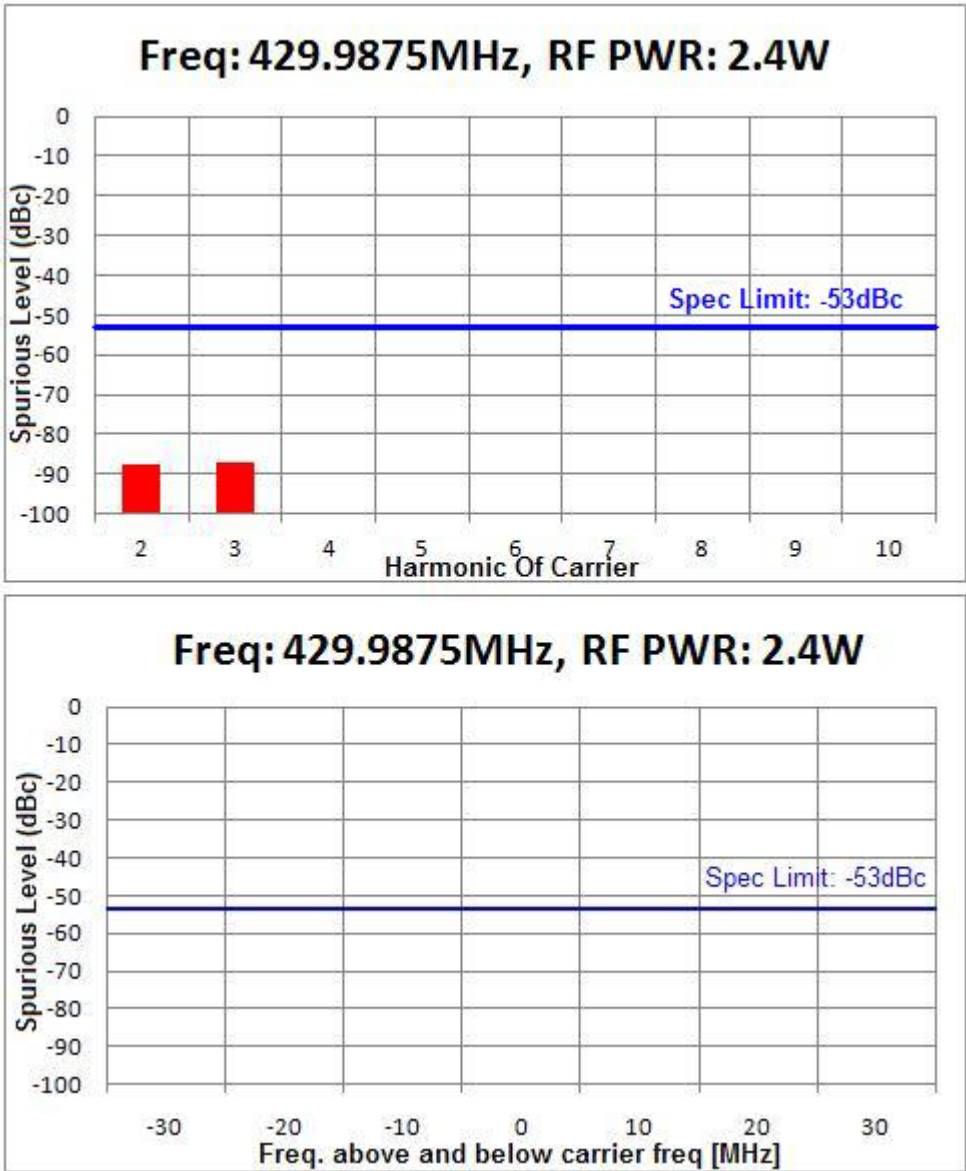


Table 6F-3: 2.4 Watt Harmonic of Carrier 429.9875MHz, 12.5 KHz Channel Spacing

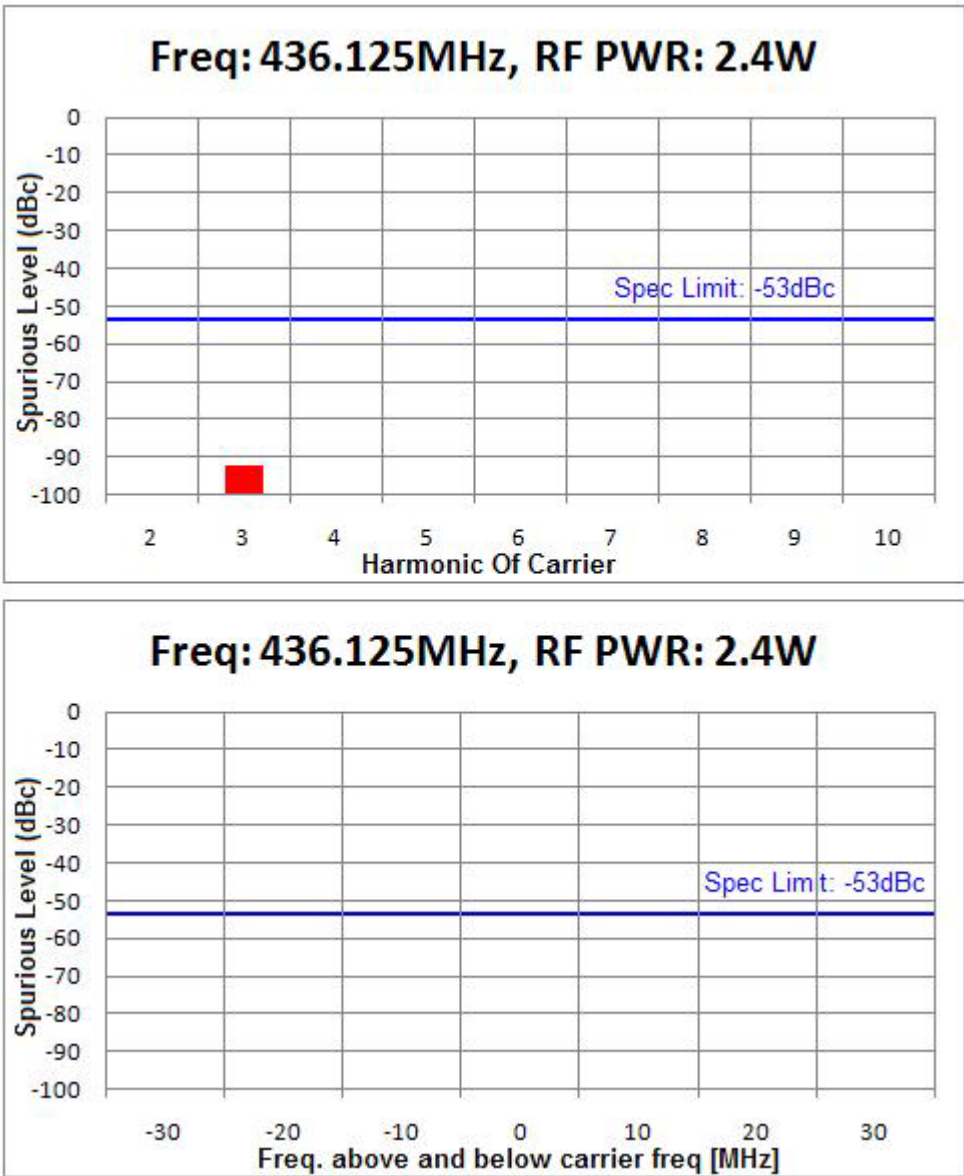


Table 6F-2: 2.4 Watt Harmonic of Carrier 436.125 MHz, 12.5 kHz Channel Spacing

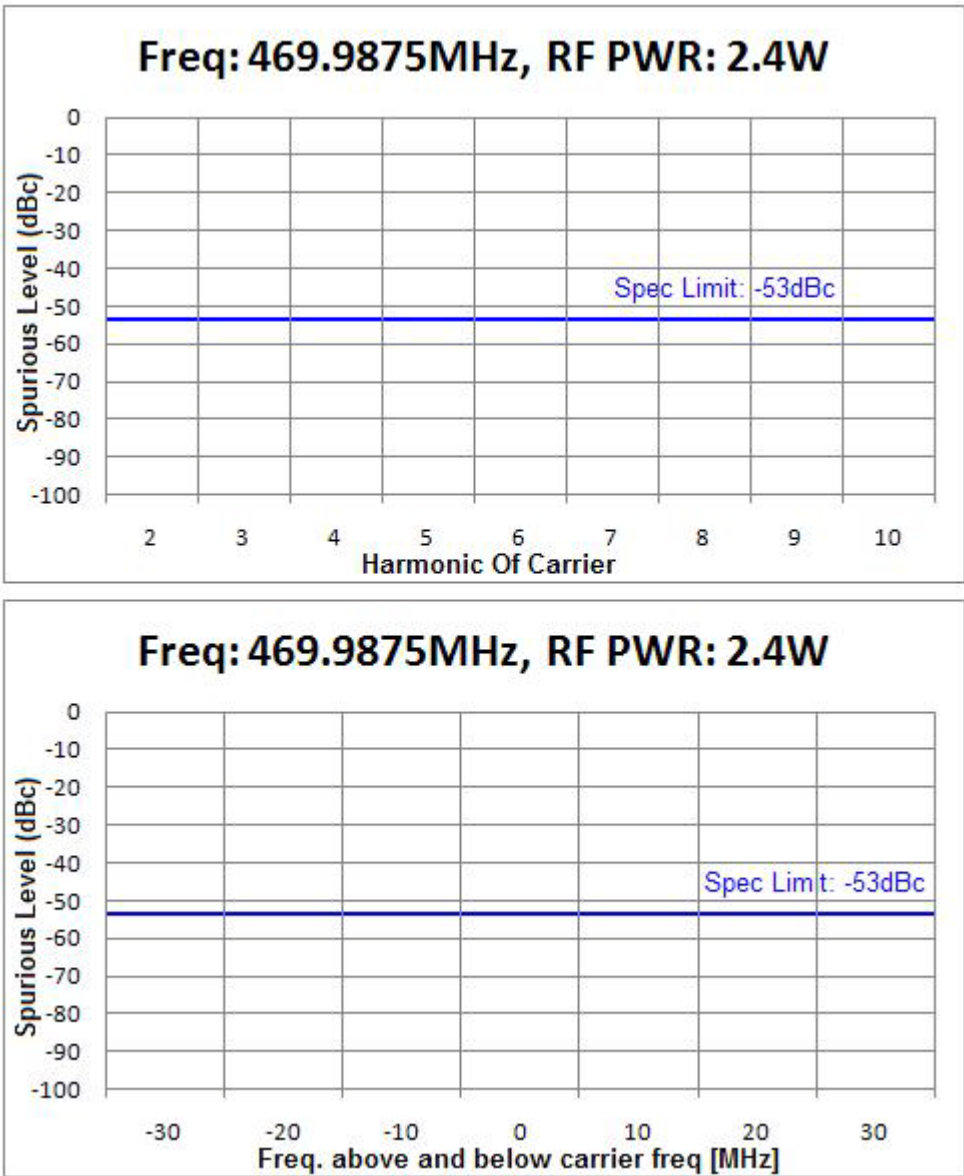


Table 6F-3: 2.4 Watt Harmonic of Carrier 469.9875MHz, 12.5 kHz Channel Spacing

Note: Spurs which are not shown is 47dB below the specification limits.

EXHIBIT 6G

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

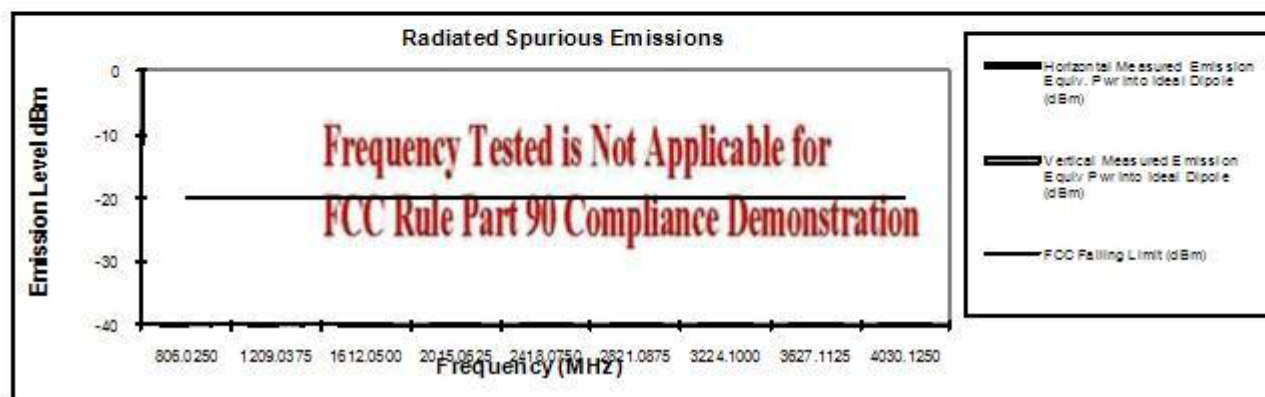
Transmit Radiated Spurious Emissions: SL7550

Tx Power: 2.4 Watts

403.0125 MHz

Channel Spacing 12.5kHz | S/N DFLTMN03RS

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
806.0250	-20	*	*
1209.0375	-20	*	*
1612.0500	-20	*	*
2015.0625	-20	*	*
2418.0750	-20	*	*
2821.0875	-20	*	*
3224.1000	-20	*	*
3627.1125	-20	*	*
4030.1250	-20	*	*

**Graph 6G-1:** 2.4 Watt, 403.0125 MHz, 12.5 kHz Channel Spacing (Not for FCC Review)

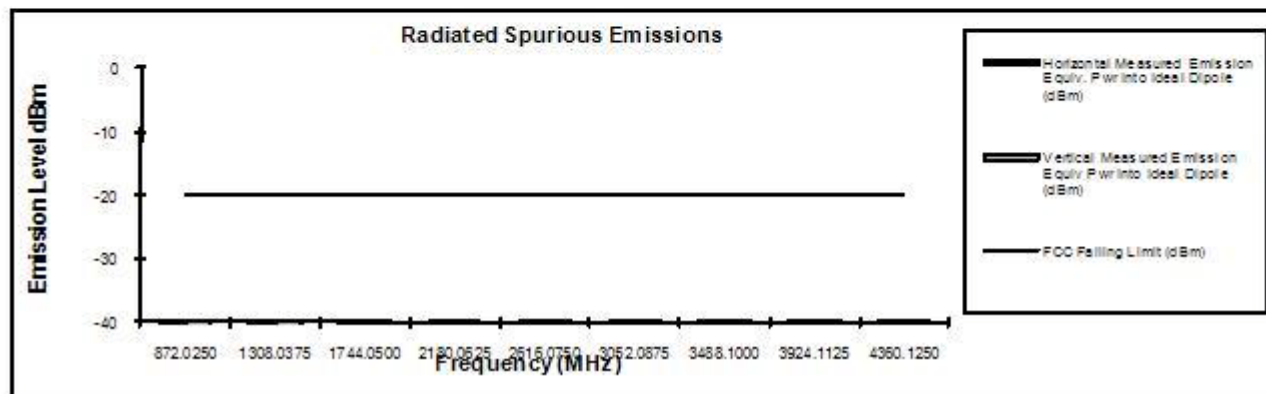
Transmit Radiated Spurious Emissions: SL7550

Tx Power: 2.4 Watts

436.0125 MHz

Channel Spacing 12.5kHz | S/N DFLTMN03SR

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
872.0250	-20	*	*
1308.0375	-20	*	*
1744.0500	-20	*	*
2180.0625	-20	*	*
2616.0750	-20	*	*
3052.0875	-20	*	*
3488.1000	-20	*	*
3924.1125	-20	*	*
4360.1250	-20	*	*

**Graph 6G-2:** 2.4 Watt, 436.0125 MHz, 12.5 kHz Channel Spacing

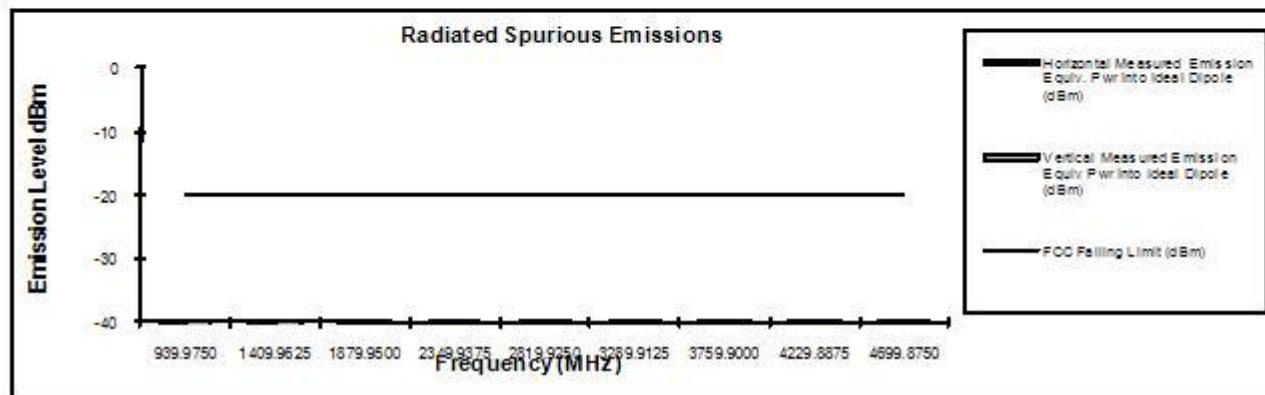
Transmit Radiated Spurious Emissions: SL7550

Tx Power: 2.4 Watts

469.9875 MHz

Channel Spacing 12.5kHz | S/N DFLTMN03SG

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
939.9750	-20	*	*
1409.9625	-20	*	*
1879.9500	-20	*	*
2349.9375	-20	*	*
2819.9250	-20	*	*
3289.9125	-20	*	*
3759.9000	-20	*	*
4229.8875	-20	*	*
4699.8750	-20	*	*

**Graph 6G-3: 2.4 Watt, 469.9875 MHz, 12.5 kHz Channel Spacing**

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

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

EXHIBIT 6H

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

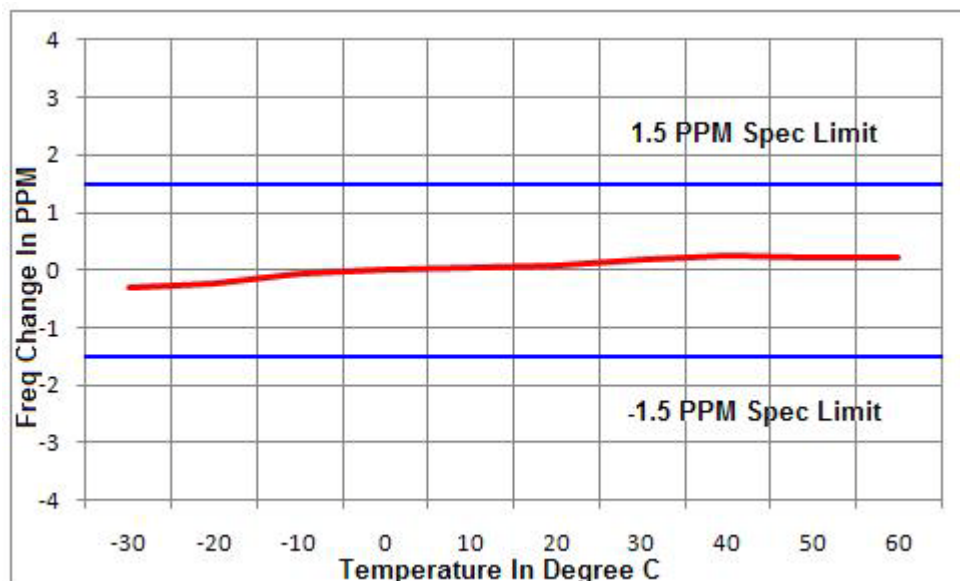
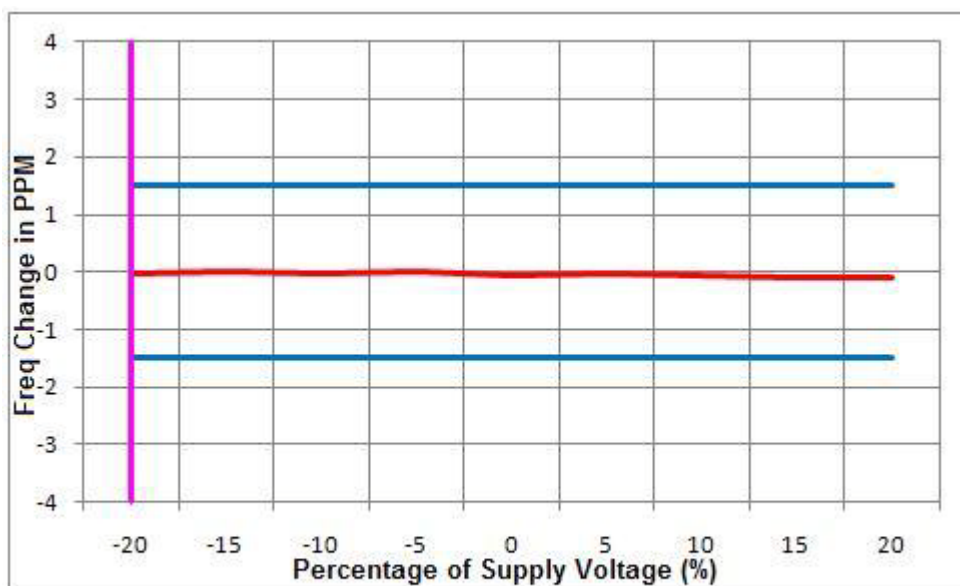


Figure 6H-1: 1.5 ppm Frequency Stability vs. Temperature



Minimum supply voltage, 2.96V, 20% below the nominal voltage. Transmitter inhibit point

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

EXHIBIT 6I

Transient Frequency Behavior - FCC Rules Part 90.214 and 90.215

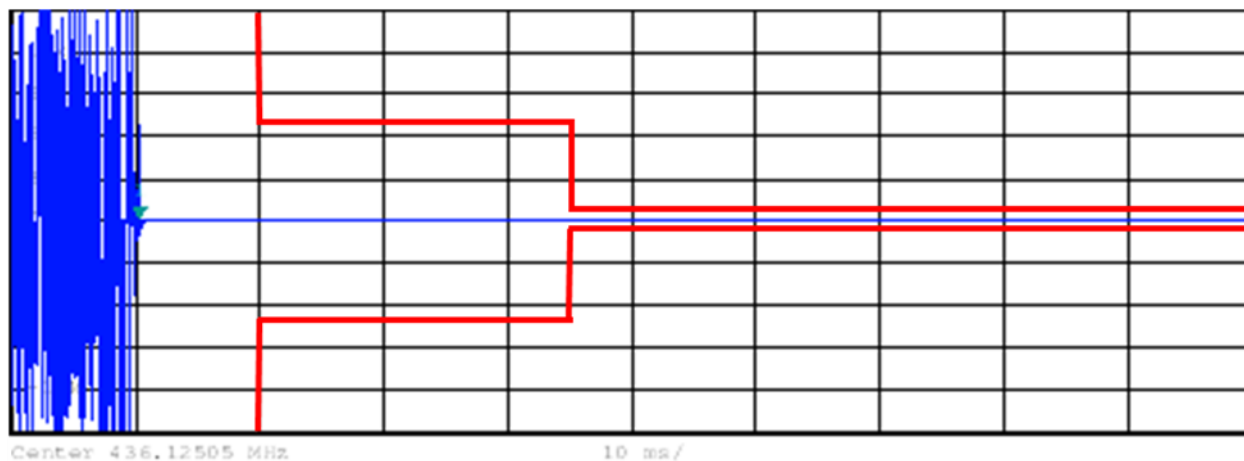


Figure 6I-1: 1.5 ppm, 12.5 kHz Key-Up Attack Time; Freq: 436.125 MHz, 2.4 Watt.

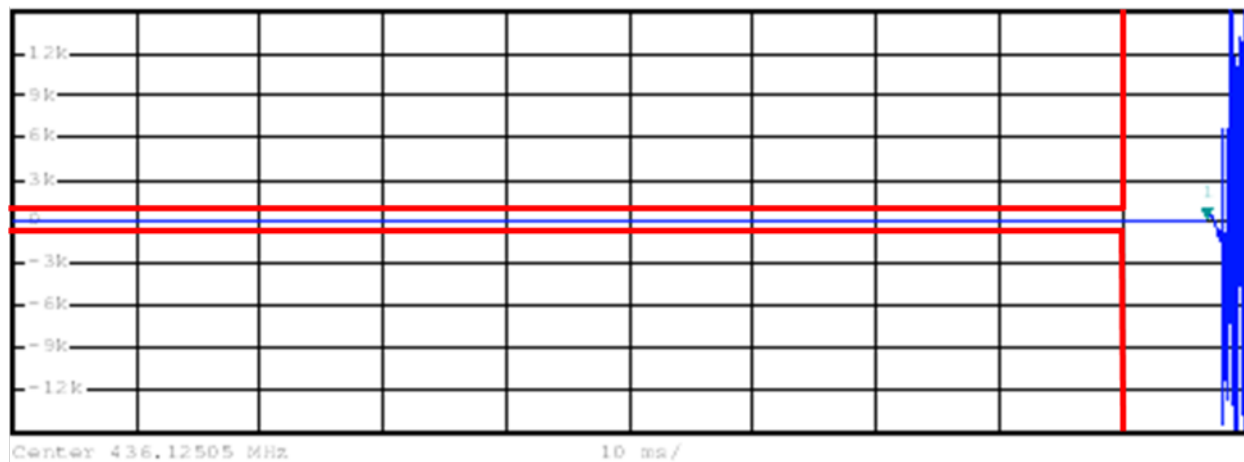


Figure 6I-2: 1.5 ppm, 12.5 kHz De-Key Decay Time; Freq: 436.125 MHz, 2.4 Watt.