

**EXHIBIT 6**

**INDEX OF SUBMITTED MEASURED DATA**

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

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- 6E-5 –485.075 MHz, 12.5 kHz Channel Spacing (Digital Data)
- 6E-6 –153.0125 MHz, 12.5 kHz Channel Spacing (Digital Data)
- 6E-7 –485.075 MHz, 12.5 kHz Channel Spacing (Digital Voice)
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- 6E-9 –485.075 MHz, 12.5 kHz Channel Spacing (Digital TDMA)
- 6E-10 –153.0125 MHz, 12.5 kHz Channel Spacing (Digital TDMA)
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- 6F-2 - High Power 519.975 MHz, 25 kHz Channel Spacing
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- 6G-1 – 425.025 MHz vs. Supply Voltage
- 6G-2 –156.675 MHz vs. Supply Voltage
- 6G-3 – 425.0125 MHz vs. Temperature
- 6G-4 – 156.675 MHz vs. Temperature

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- 6F-3 - High Power 519.975 MHz, 25 kHz Channel Spacing
- 6F-4 - High Power 136.0125 MHz, 25 kHz Channel Spacing
- 6F-5 - High Power 153.0125 MHz, 25 kHz Channel Spacing
- 6F-6 - High Power 173.9875 MHz, 25 kHz Channel Spacing

**EXHIBIT 6I – Power Line Conducted Interference**

- 6I-1- Radio Off Line/Neutral
- 6I-2- Radio On Line/Neutral 450.075MHz
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- 6I-4- Radio On Line/Neutral 519.975MHz
- 6I-5- Radio On Line/Neutral 136.0125MHz
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**EXHIBIT 6J – Transient Frequency Behavior**

- 6J-1 – 485.075 MHz, 12.5 kHz Channel Spacing – Transmitter On
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- 6J-3 – 153.0125 MHz, 12.5 kHz Channel Spacing – Transmitter On
- 6J-4 – 153.0125 MHz, 12.5 kHz Channel Spacing – Transmitter Off
- 6J-5 – 485.075 MHz, 25 kHz Channel Spacing – Transmitter On
- 6J-6 – 485.075 MHz, 25 kHz Channel Spacing – Transmitter Off
- 6J-7 – 153.0125 MHz, 25 kHz Channel Spacing – Transmitter On
- 6J-8 – 153.0125 MHz, 25 kHz Channel Spacing – Transmitter Off

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)

**Frequency = 485.025 MHz:**

Output RF power	1.0 Watts
DC Voltage	7.50 Volts
DC Current	1.42 Amps
Output RF power	3.00 Watts
DC Voltage	7.50 Volts
DC Current	1.75 Amps
Output RF power	5.6 Watts
DC Voltage	7.50 Volts
DC Current	2.03 Amps

**Frequency = 154.225 MHz:**

Output RF power	1.0 Watts
DC Voltage	7.50 Volts
DC Current	1.04 Amps
Output RF power	3.00 Watts
DC Voltage	7.50 Volts
DC Current	1.47 Amps
Output RF power	6.6 Watts
DC Voltage	7.50 Volts
DC Current	2.12 Amps

EXHIBIT 6B

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

**Audio Frequency Response**  
(Freq: 485.025MHz, ChSp: 12.5kHz)

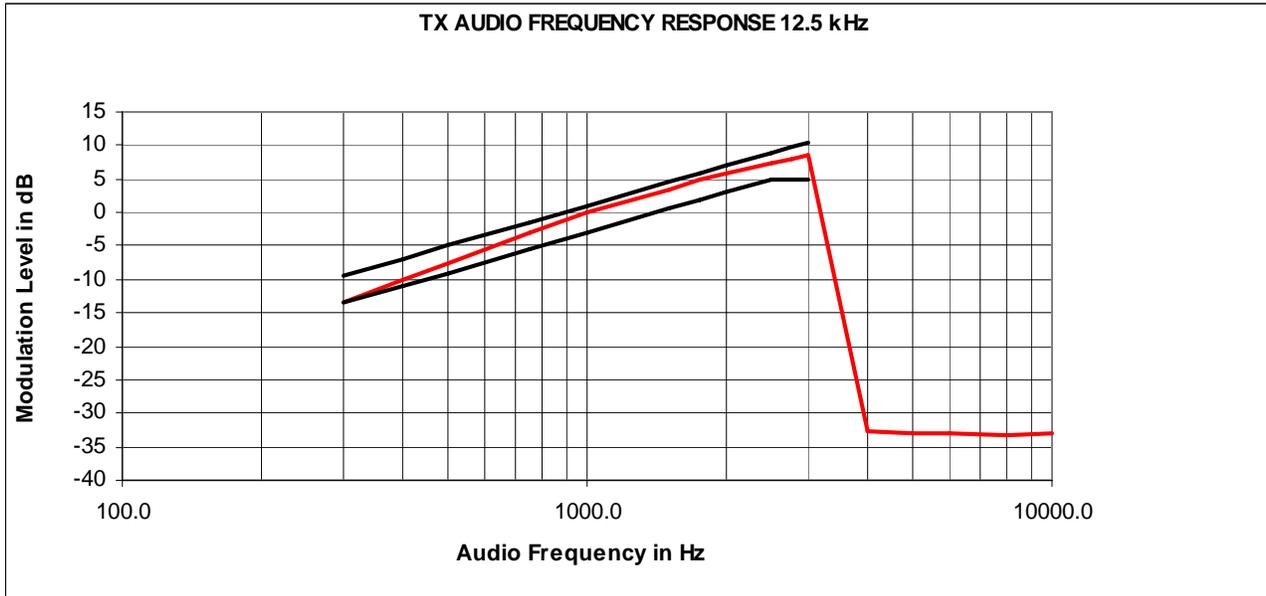


Exhibit 6B-1

**Audio Frequency Response**  
(Freq: 155.025MHz, ChSp: 12.5kHz)

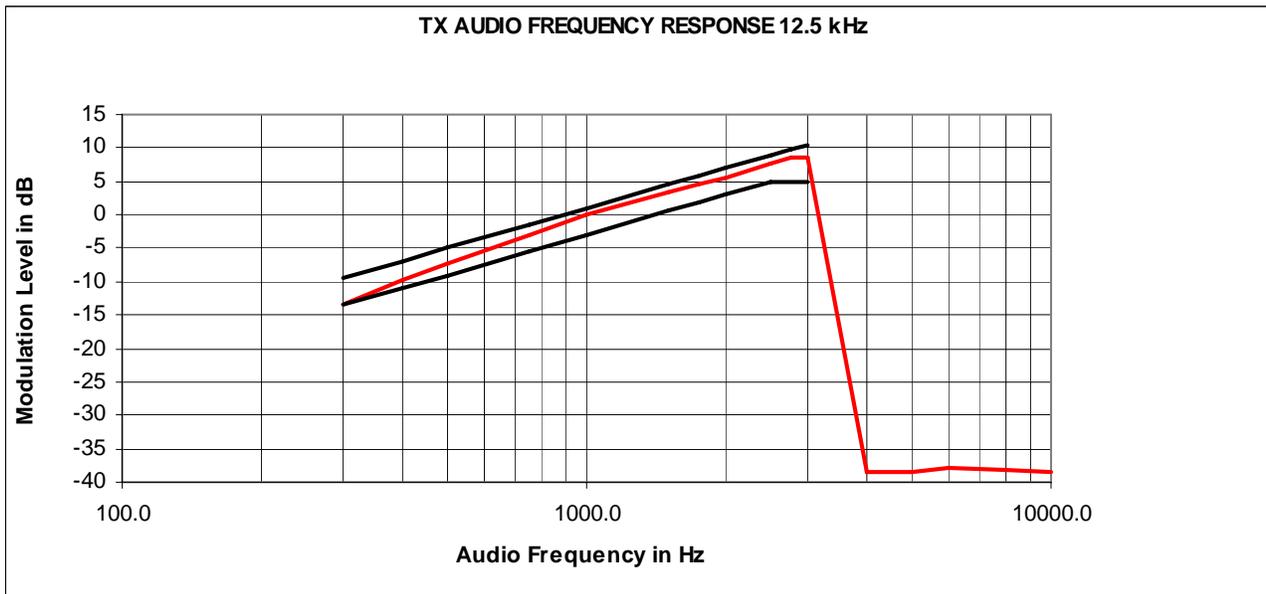


Exhibit 6B-2

**Audio Frequency Response**  
(Freq: 485.025MHz, ChSp: 25kHz)

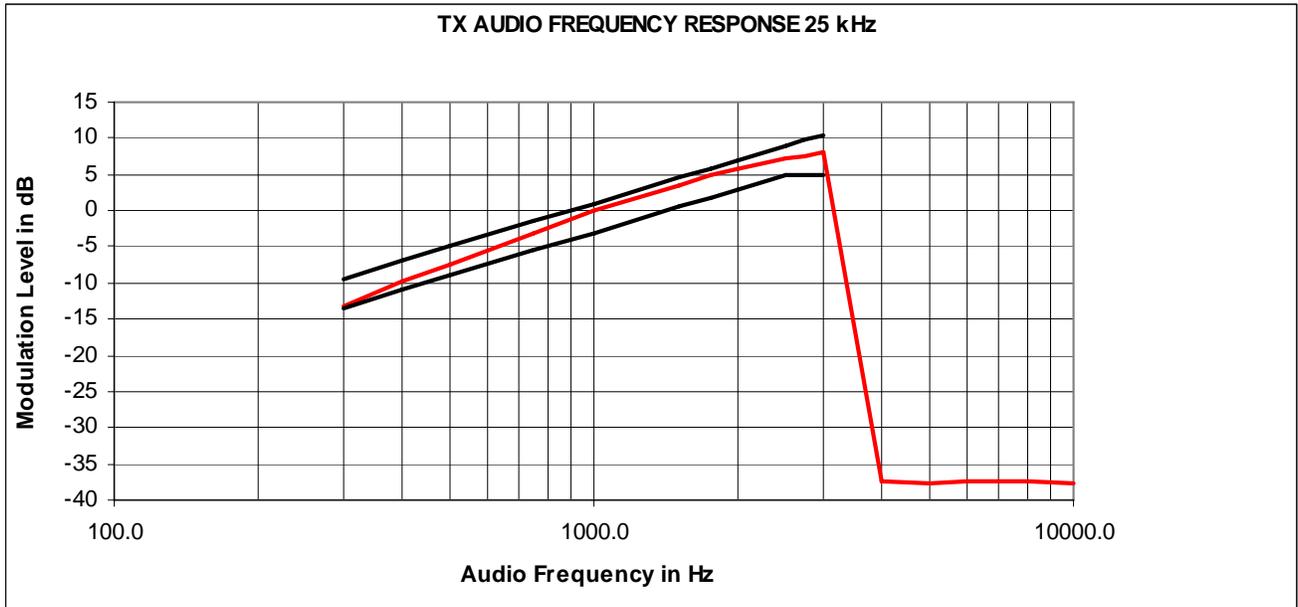


Exhibit 6B-3

**Audio Frequency Response**  
(Freq: 155.025MHz, ChSp: 25kHz)

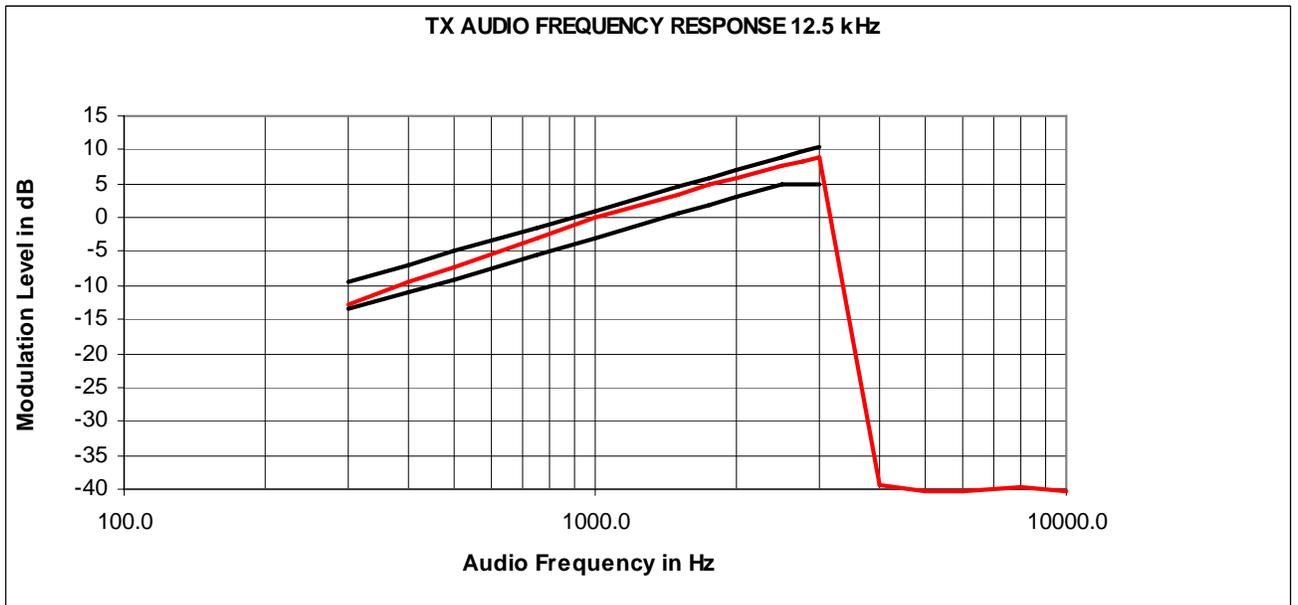


Exhibit 6B-4

**EXHIBIT 6C**

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

**Transmit Low Pass Filter Frequency Response**

(Freq: 485.025MHz, ChSp: 12.5kHz)

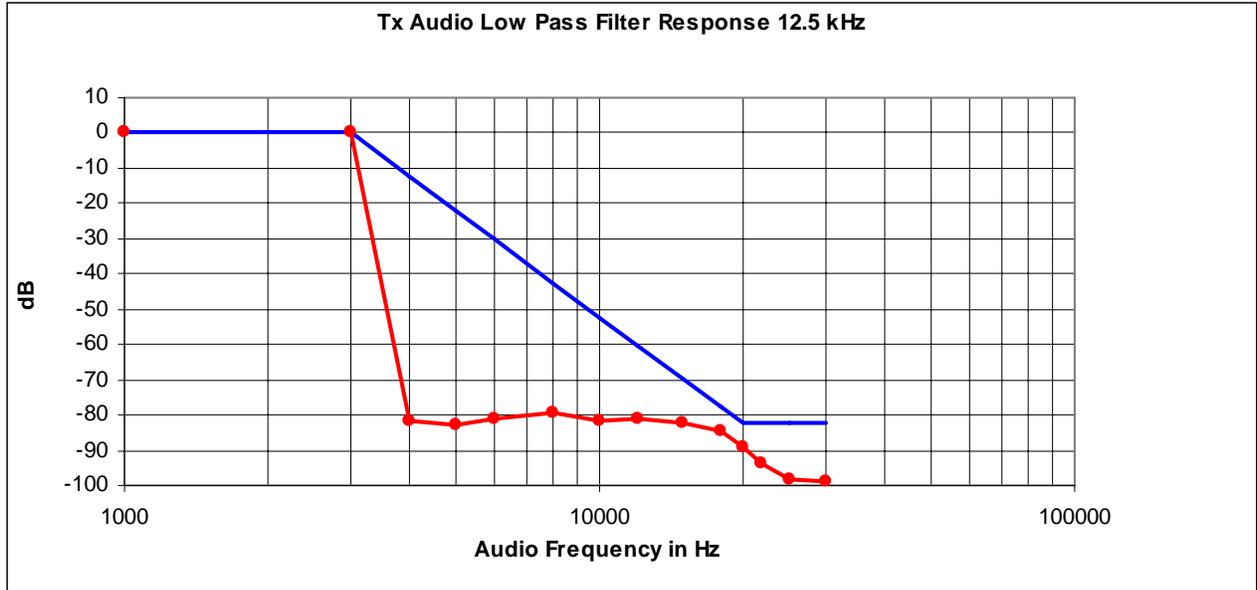


Exhibit 6C-1

**Transmit Low Pass Filter Frequency Response**

(Freq: 155.025MHz, ChSp: 12.5kHz)

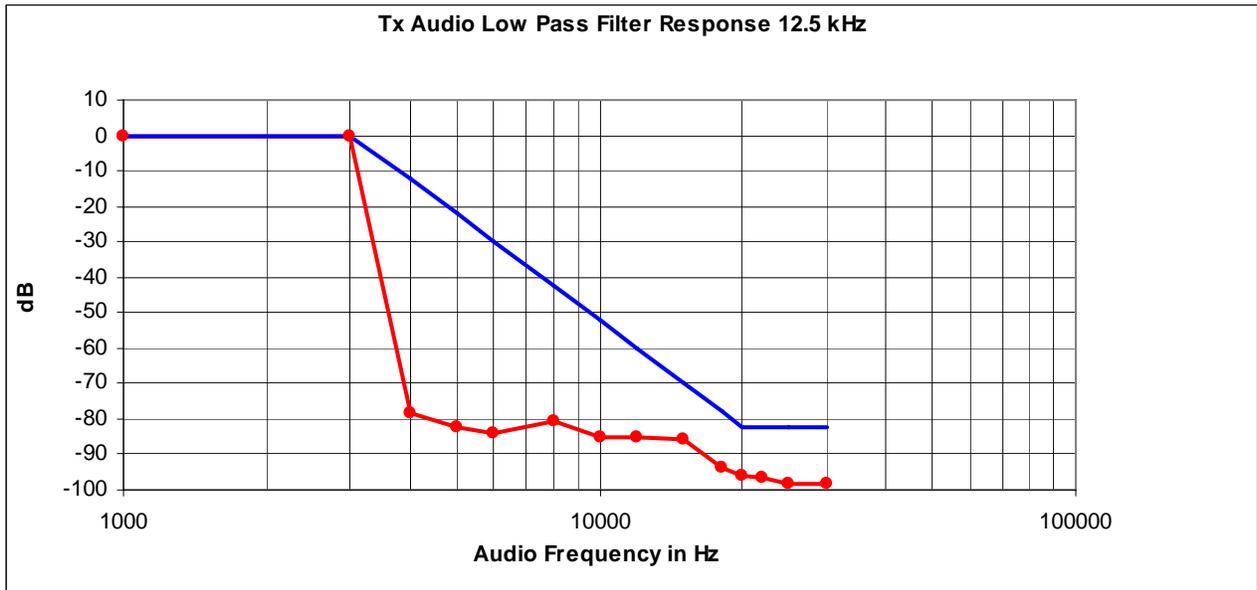


Exhibit 6C-2

**Transmit Low Pass Filter Frequency Response**  
(Freq: 485.025MHz, ChSp: 25kHz)

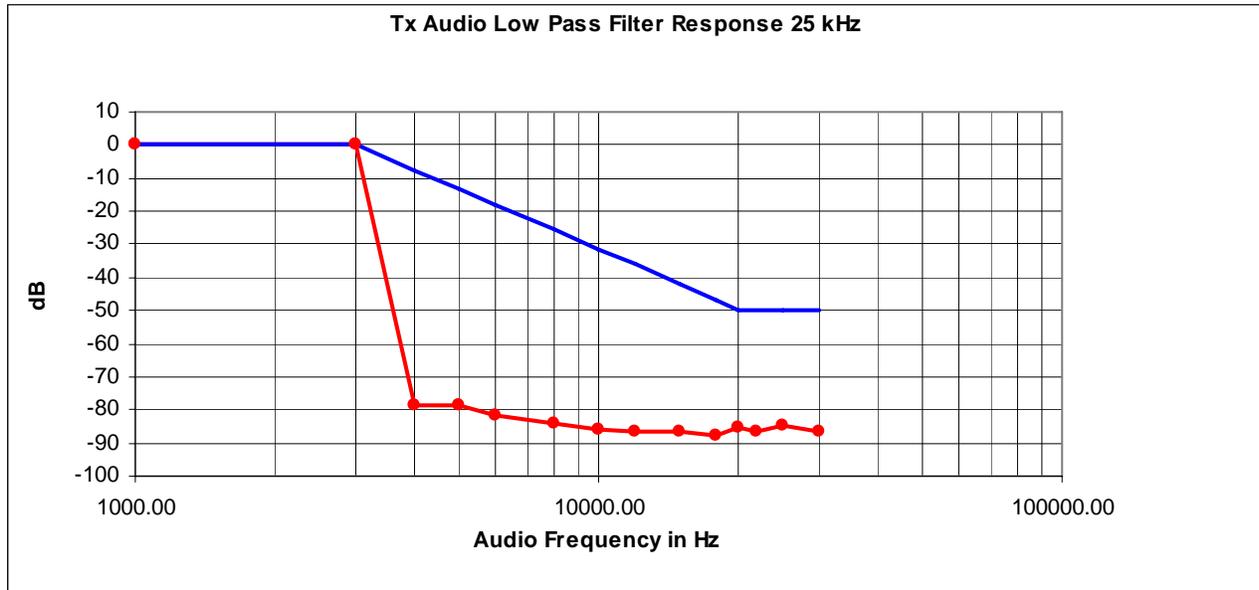


Exhibit 6C-3

**Transmit Low Pass Filter Frequency Response**  
(Freq: 155.025MHz, ChSp: 25kHz)

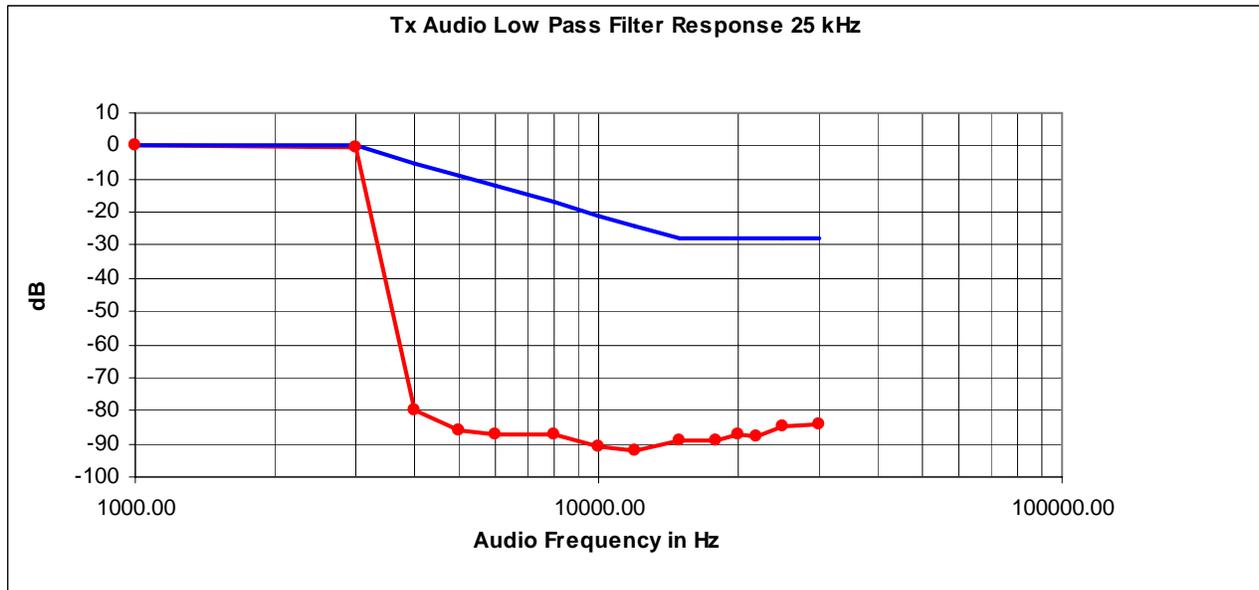


Exhibit 6C-4

EXHIBIT 6D

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

**Modulation Limiting** (Freq: 485.025MHz, ChSp: 12.5kHz)

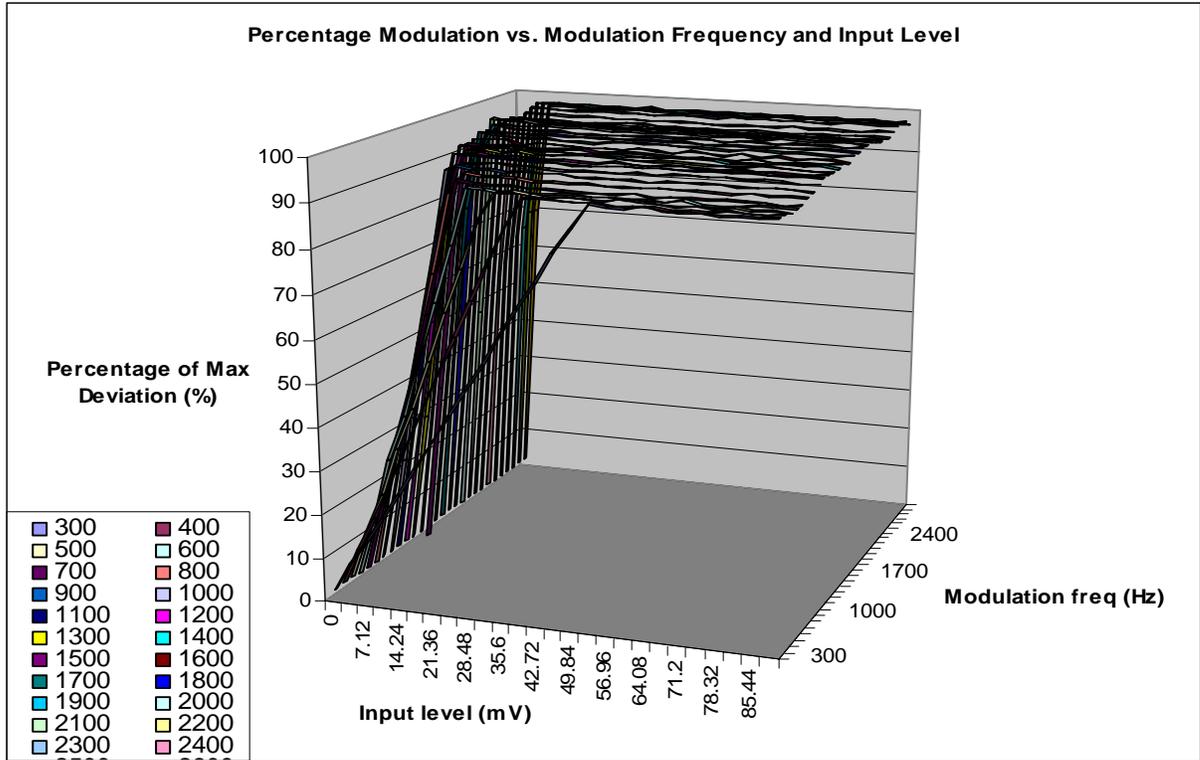


Exhibit 6D-1

**Modulation Limiting** (Freq: 155.025MHz, ChSp: 12.5kHz)

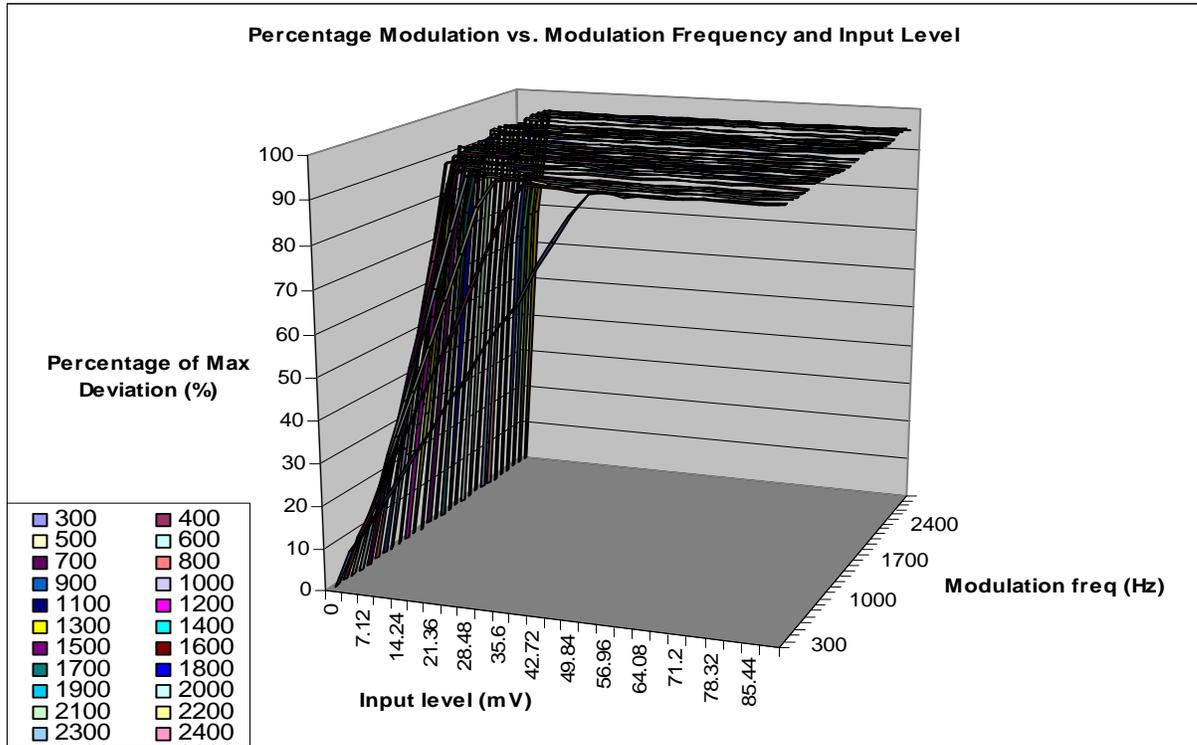


Exhibit 6D-2

**Modulation Limiting** (Freq: 485.025MHz, ChSp: 25kHz)

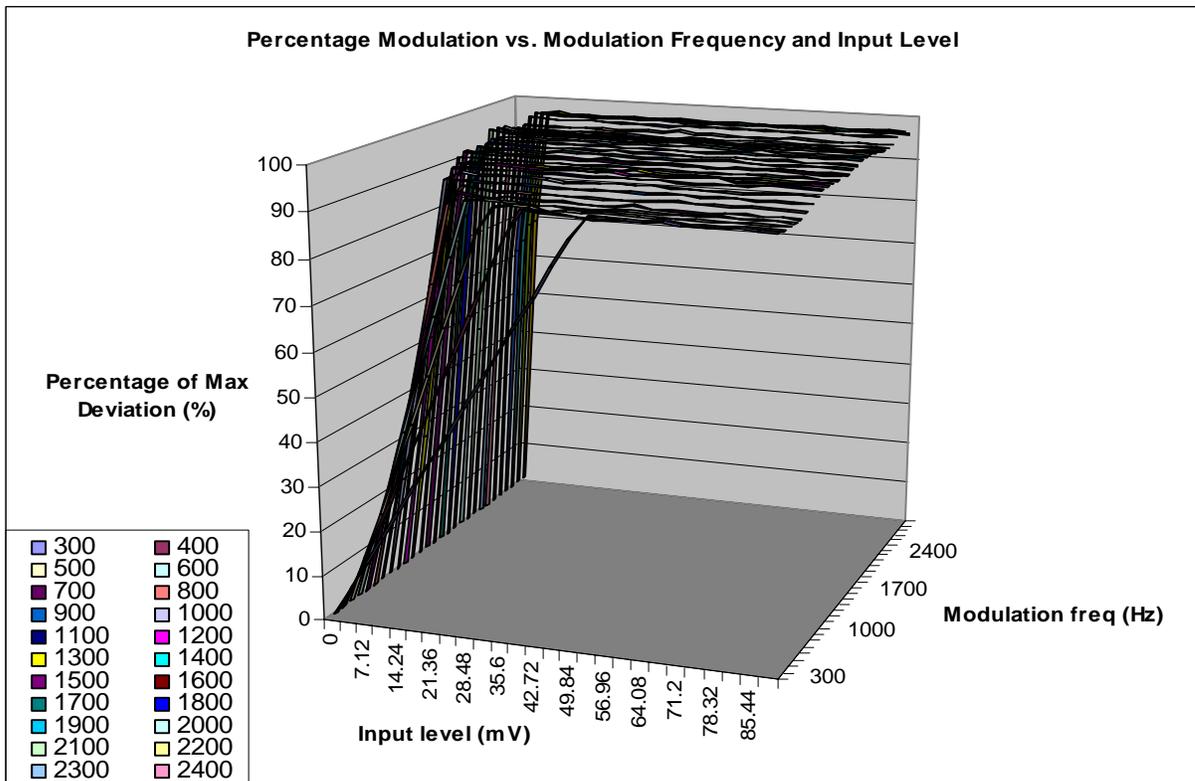


Exhibit 6D-3

**Modulation Limiting** (Freq: 155.025MHz, ChSp: 25kHz)

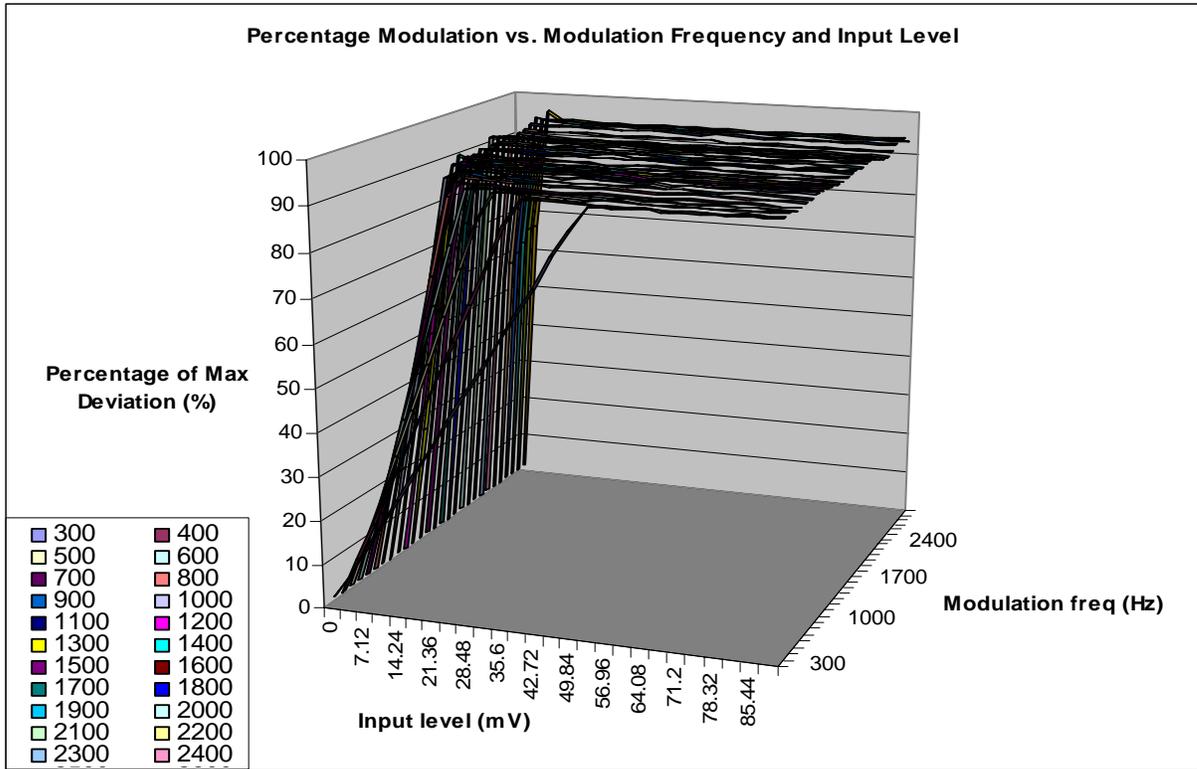


Exhibit 6D-4

**BANDWIDTH CALCULATIONS:**

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

Shown below are the calculations required for FCC ID: AZ489FT7036.

**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, 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, 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, Digital 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**

Modulation (20 kHz Channelization, Analog 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

**Occupied Bandwidth** (Analog Voice: 11K0F3E)

Frequency = 485.075 MHz

Channel Spacing = 12.5 kHz

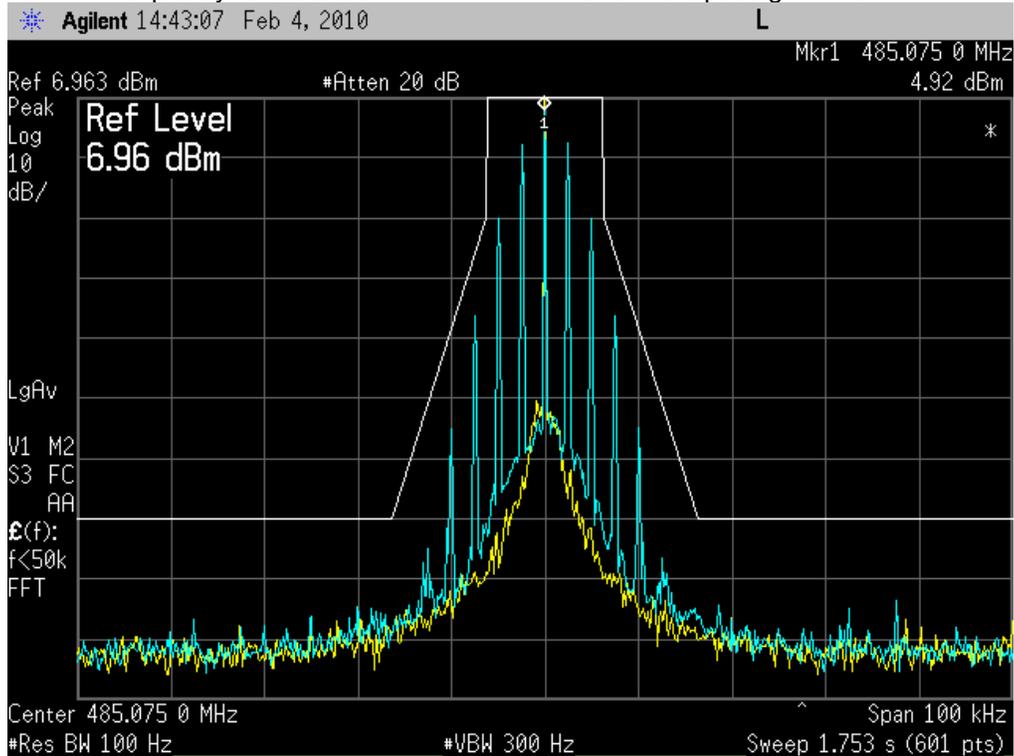


Exhibit 6E-1

**Occupied Bandwidth** (Analog Voice: 11K0F3E)

Frequency = 153.0125 MHz

Channel Spacing = 12.5 kHz

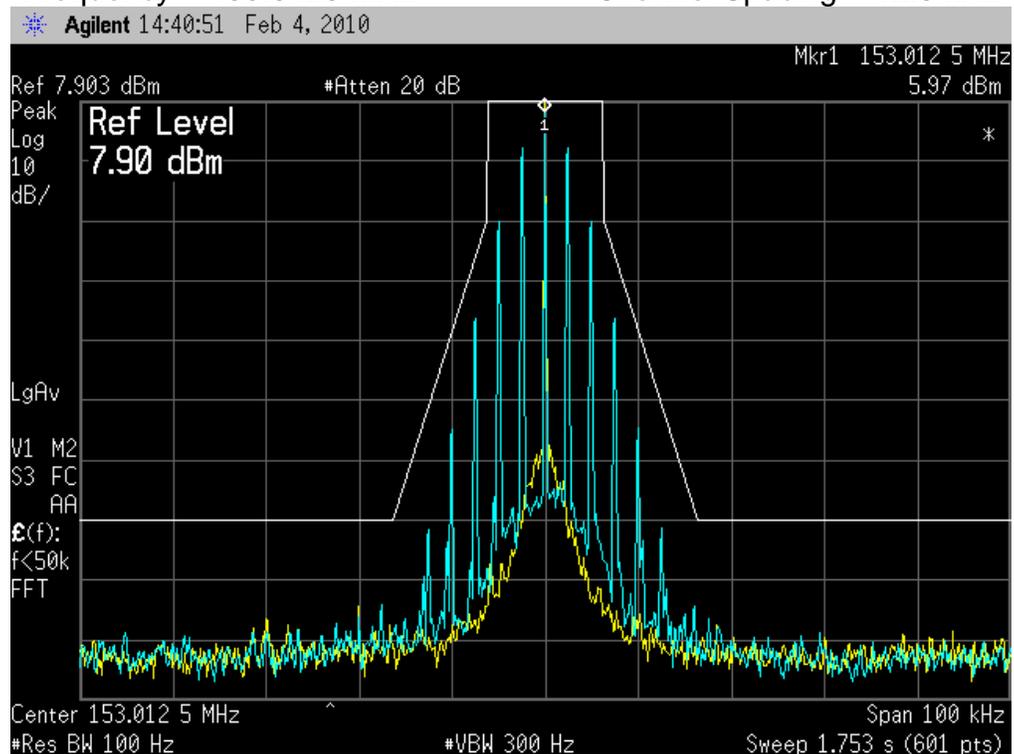


Exhibit 6E-2

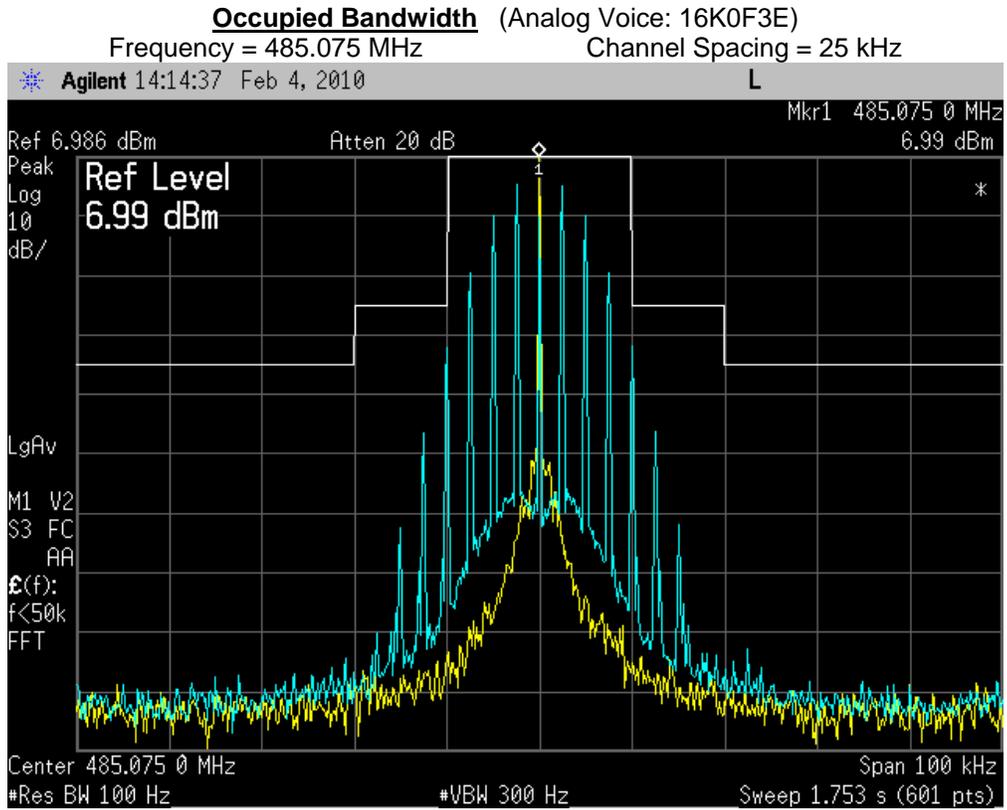


Exhibit 6E-3

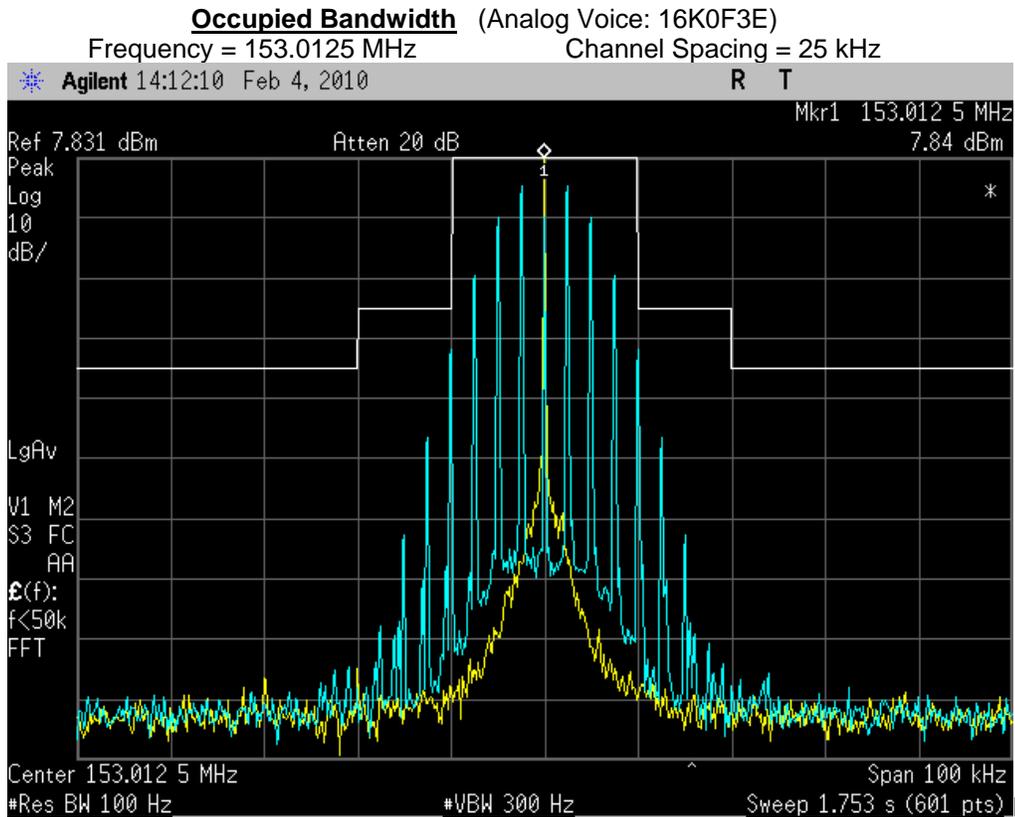


Exhibit 6E-4

**Occupied Bandwidth** (Digital Data: 8K10F1D)  
Frequency = 485.075 MHz Channel Spacing = 12.5 kHz

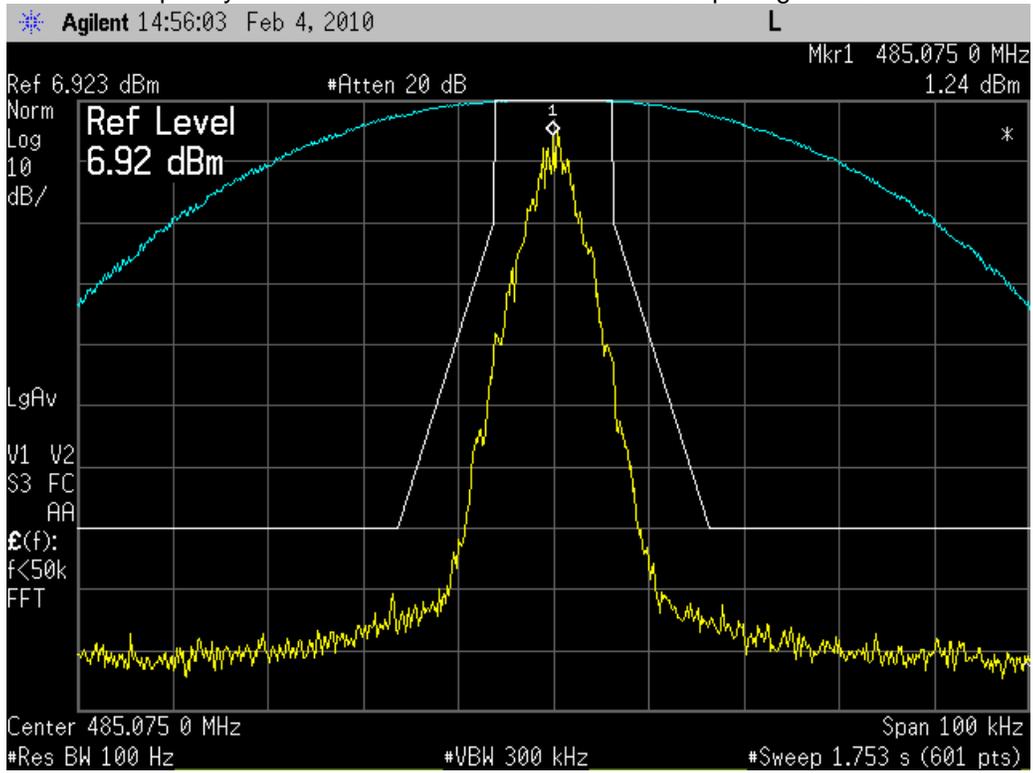


Exhibit 6E-5

**Occupied Bandwidth** (Digital Data: 8K10F1D)  
Frequency = 153.0125 MHz Channel Spacing = 12.5 kHz

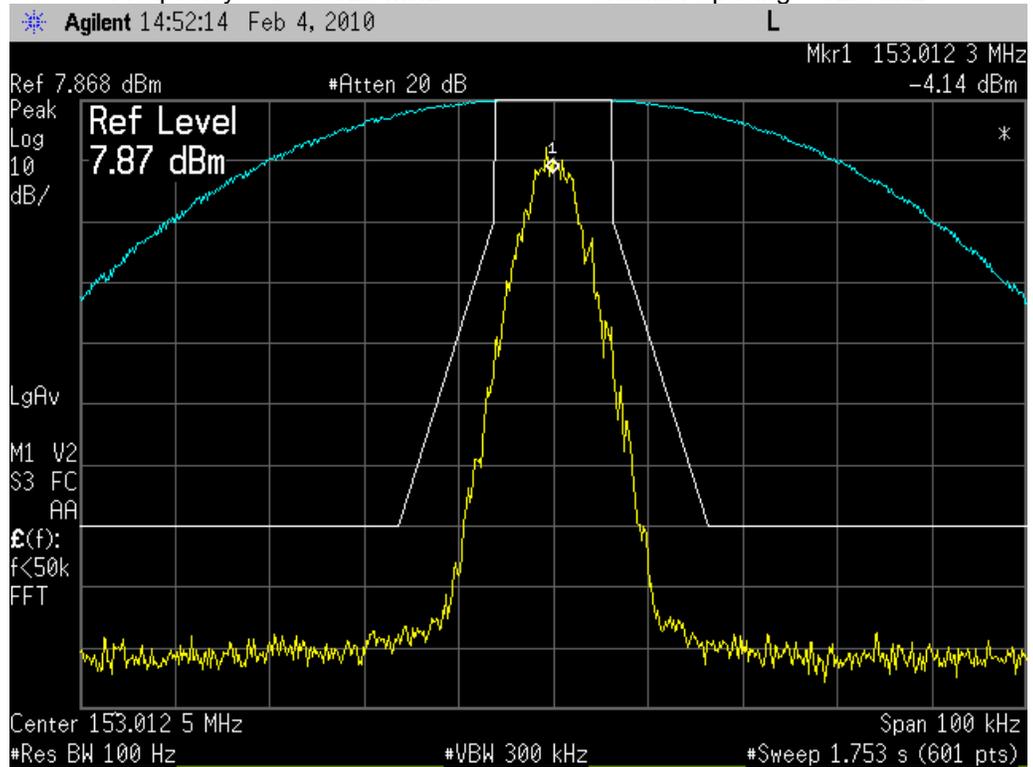


Exhibit 6E-6

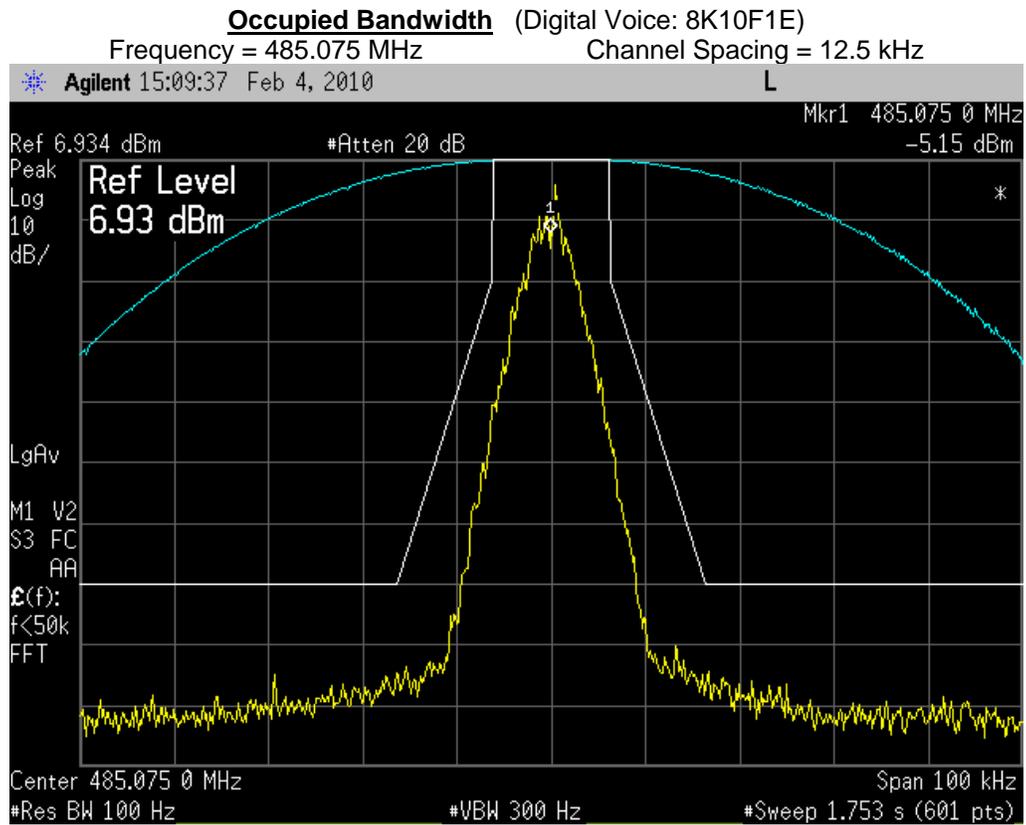


Exhibit 6E-7

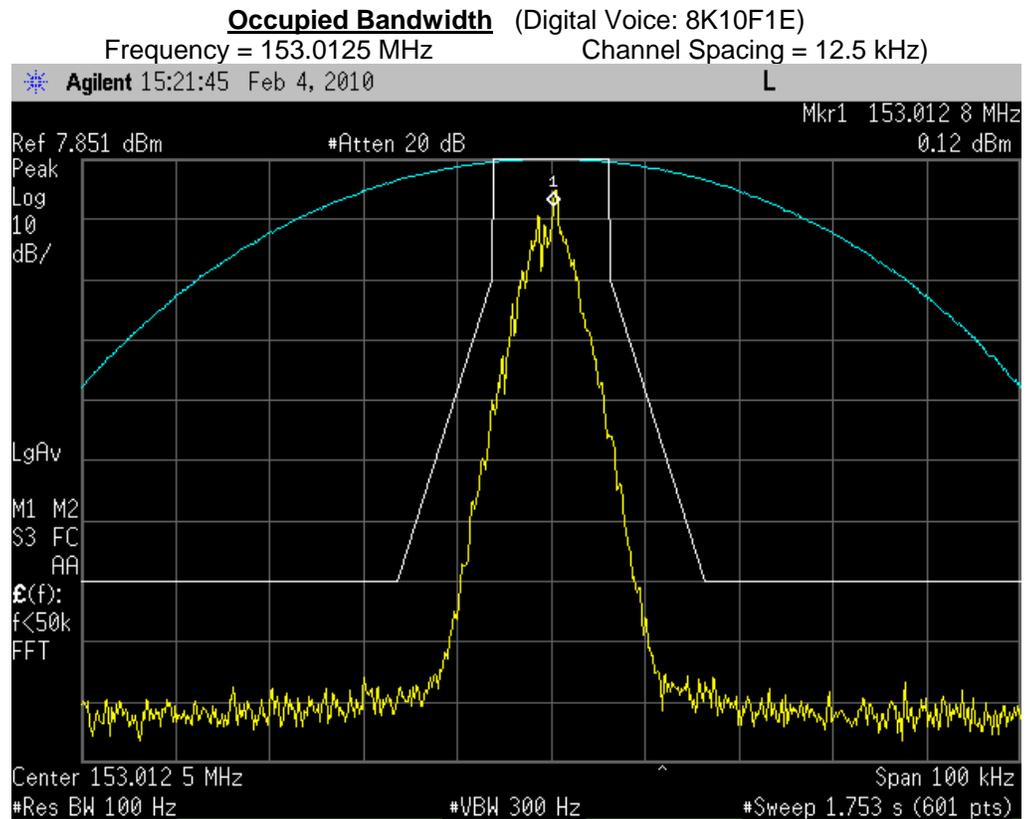


Exhibit 6E-8

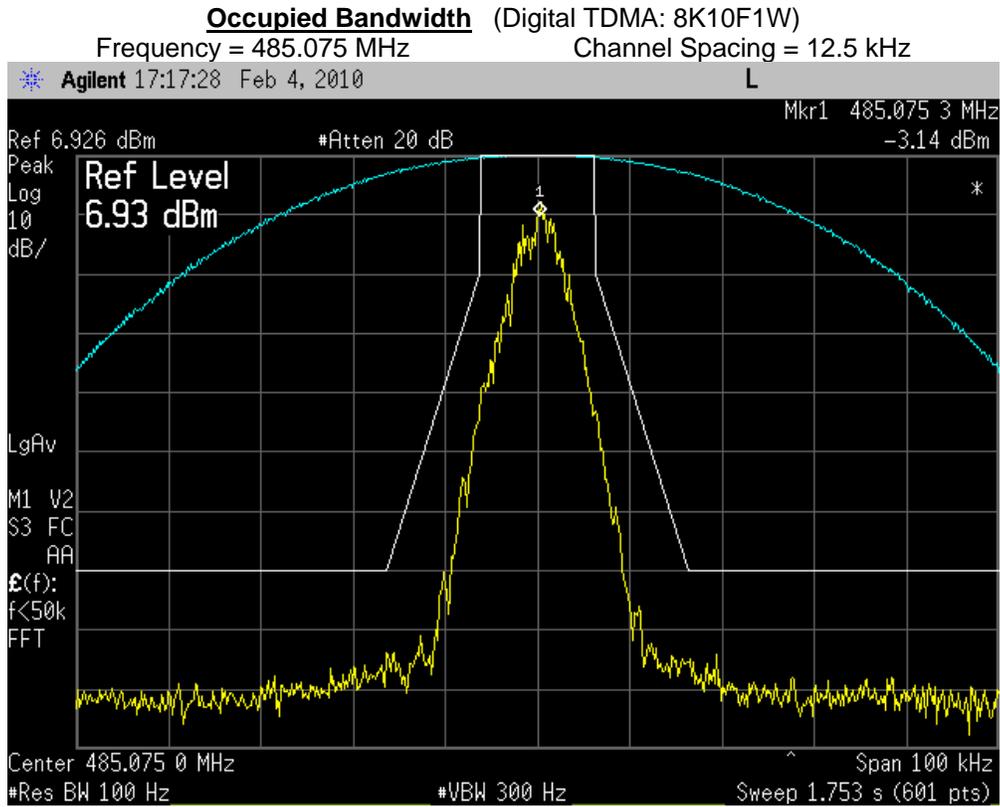


Exhibit 6E-9

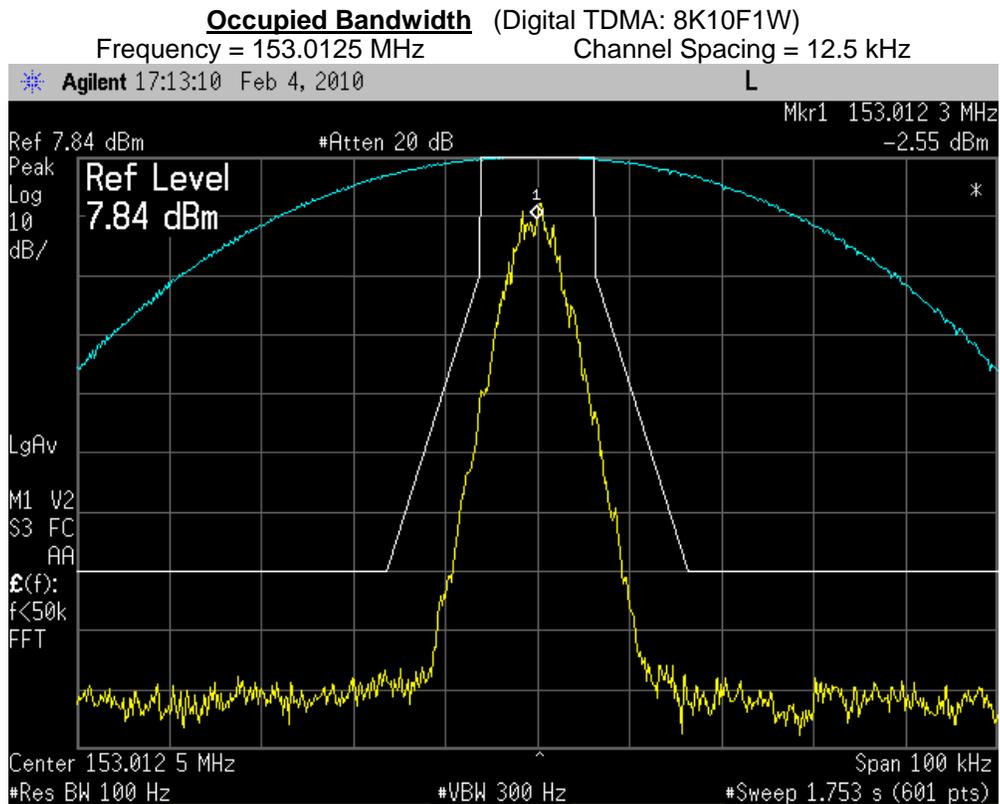


Exhibit 6E-10

**Occupied Bandwidth** (Analog Voice Encryption: 20K0F1E)  
Frequency = 485.075 MHz Channel Spacing = 20 kHz

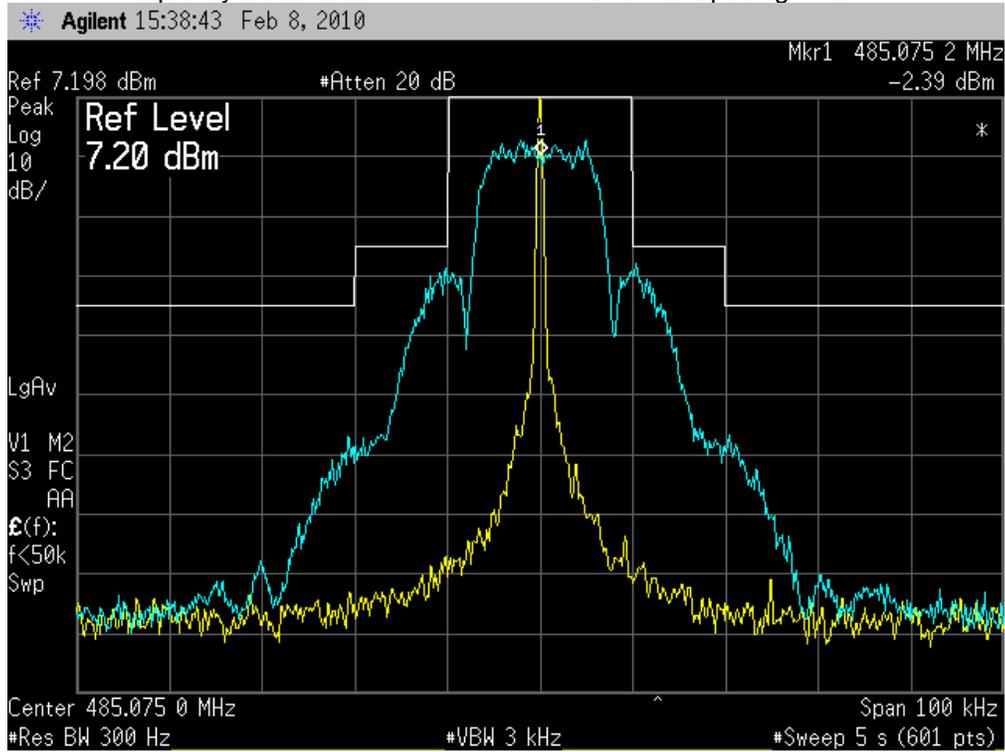


Exhibit 6E-11

**Occupied Bandwidth** (Analog Voice Encryption: 20K0F1E)  
Frequency = 153.0125 MHz Channel Spacing = 20 kHz

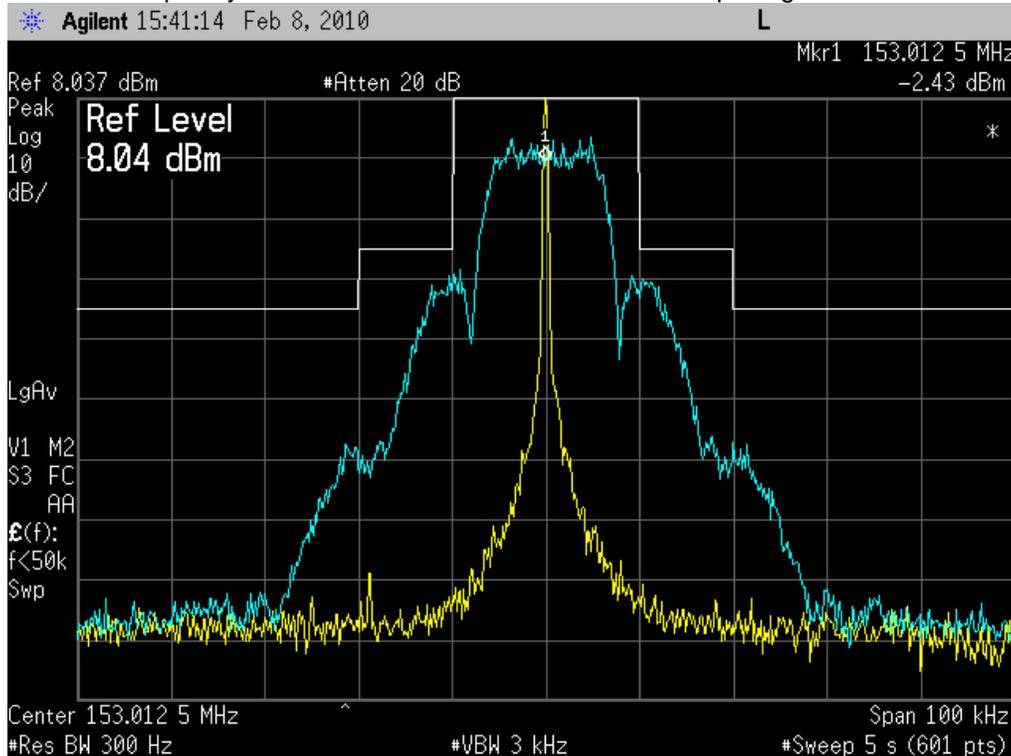


Exhibit 6E-12

EXHIBIT 6F

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

Motorola Inc.

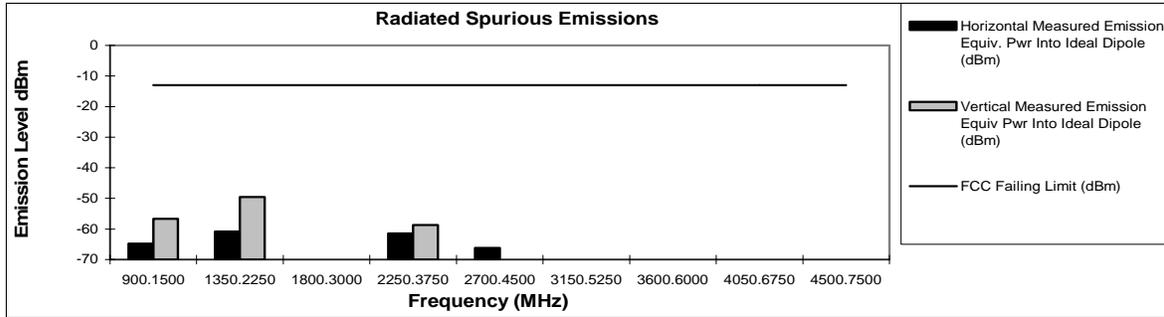
FCC ID:AZ489FT4893

Transmit Radiated Spurious Emissions: APX 7000

450.075 MHz

Channel Spacing 25kHz | S/N Q0NLT01S

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
900.1500	-13	-64.84	-56.71
1350.2250	-13	-60.86	-49.48
1800.3000	-13	*	*
2250.3750	-13	-61.42	-58.67
2700.4500	-13	-66.24	*
3150.5250	-13	*	*
3600.6000	-13	*	*
4050.6750	-13	*	*
4500.7500	-13	*	*

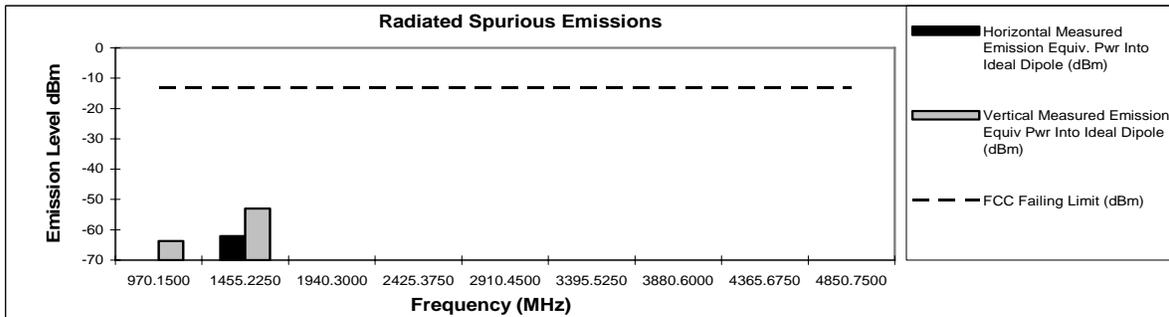


Transmit Radiated Spurious Emissions: APX 7000

485.075 MHz

Channel Spacing 25kHz | S/N Q0NLT01S

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
970.1500	-13	-70.06	-63.69
1455.2250	-13	-62.07	-52.97
1940.3000	-13	*	*
2425.3750	-13	*	*
2910.4500	-13	*	*
3395.5250	-13	*	*
3880.6000	-13	*	*
4365.6750	-13	*	*
4850.7500	-13	*	*



\* 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.

**Frequency Tested is Not Applicable for FCC Compliance Demonstration**

Motorola Inc.

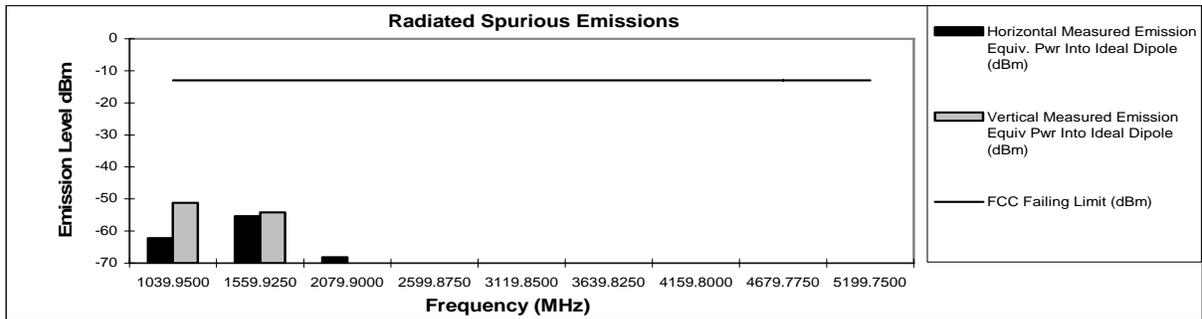
FCC ID:AZ489FT4893

**Transmit Radiated Spurious Emissions: APX 7000**

519.975 MHz

Channel Spacing 25kHz | S/N Q0NLT01S

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1039.9500	-13	-62.20	-51.20
1559.9250	-13	-55.37	-54.22
2079.9000	-13	-68.21	*
2599.8750	-13	*	*
3119.8500	-13	*	*
3639.8250	-13	*	*
4159.8000	-13	*	*
4679.7750	-13	*	*
5199.7500	-13	*	*



\* 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.

Motorola Plantation EMC Lab – Test Performed by: Curt Mc Lennan  
 FCC Registration: 91932 / Industry Canada: IC109U-1

February 15, 2010

Exhibit 6F-2

**Frequency Tested is Not Applicable for FCC Compliance Demonstration**

Motorola Inc.

FCC ID:AZ489FT4893

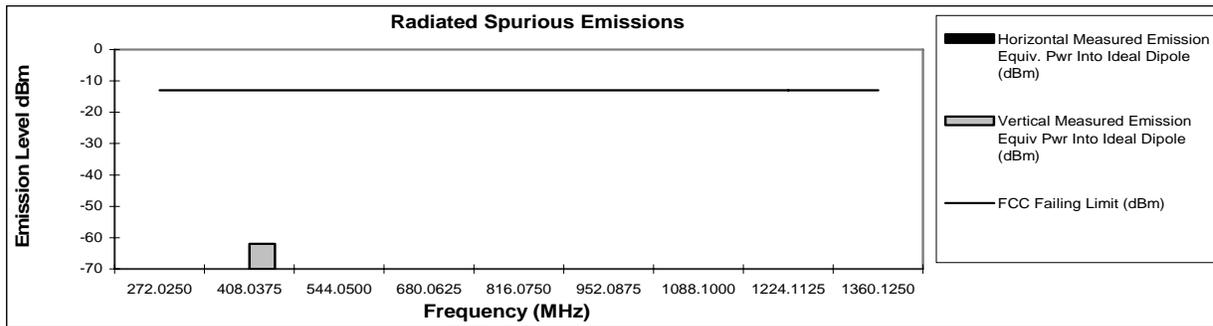
**Transmit Radiated Spurious Emissions: APX 7000**

**Tx Power: 6.6 Watts**

**136.0125 MHz**

**Channel Spacing 25kHz | S/N Q0NLT01S**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
272.0250	-13	*	*
408.0375	-13	-80.16	-62.00
544.0500	-13	*	*
680.0625	-13	*	*
816.0750	-13	*	*
952.0875	-13	*	*
1088.1000	-13	*	*
1224.1125	-13	*	-70.48
1360.1250	-13	*	*



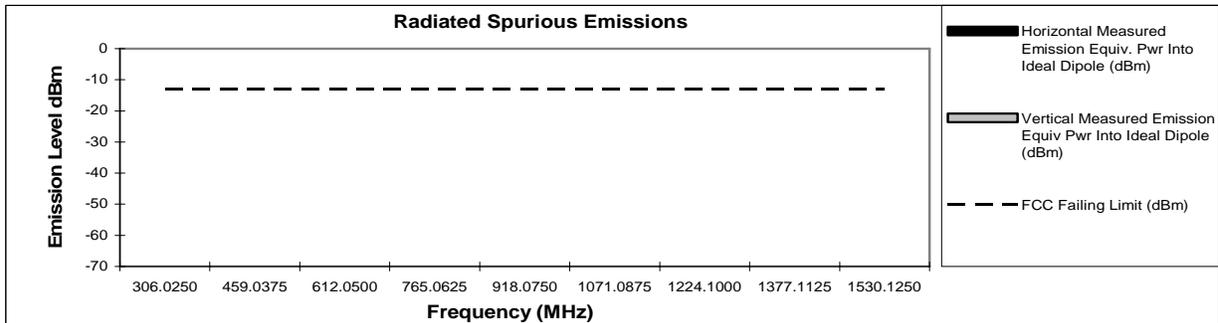
**Transmit Radiated Spurious Emissions: APX 7000**

**Tx Power: 6.6 Watts**

**153.0125 MHz**

**Channel Spacing 25kHz | S/N Q0NLT01S**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
306.0250	-13	*	*
459.0375	-13	-75.12	*
612.0500	-13	*	*
765.0625	-13	*	*
918.0750	-13	*	*
1071.0875	-13	*	*
1224.1000	-13	*	*
1377.1125	-13	*	*
1530.1250	-13	*	*



\* 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.

Motorola Inc.

FCC ID:AZ489FT4893

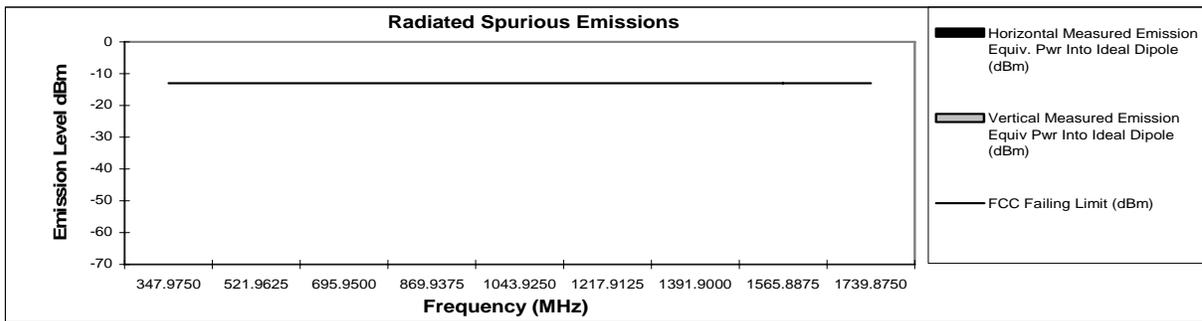
**Transmit Radiated Spurious Emissions: APX 7000**

**Tx Power: 6.6 Watts**

**173.9875 MHz**

**Channel Spacing 25kHz | S/N Q0NLT01S**

Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
347.9750	-13	*	-72.12
521.9625	-13	*	*
695.9500	-13	*	*
869.9375	-13	*	*
1043.9250	-13	*	*
1217.9125	-13	*	*
1391.9000	-13	*	*
1565.8875	-13	*	*
1739.8750	-13	*	*



\* 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.

Motorola Plantation EMC Lab – Test Performed by: Curt Mc Lennan  
 FCC Registration: 91932 / Industry Canada: IC109U-1

February 8, 2010

Exhibit 6F-4

EXHIBIT 6G

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

Frequency Stability (485.075 MHz) vs. Supply Voltage

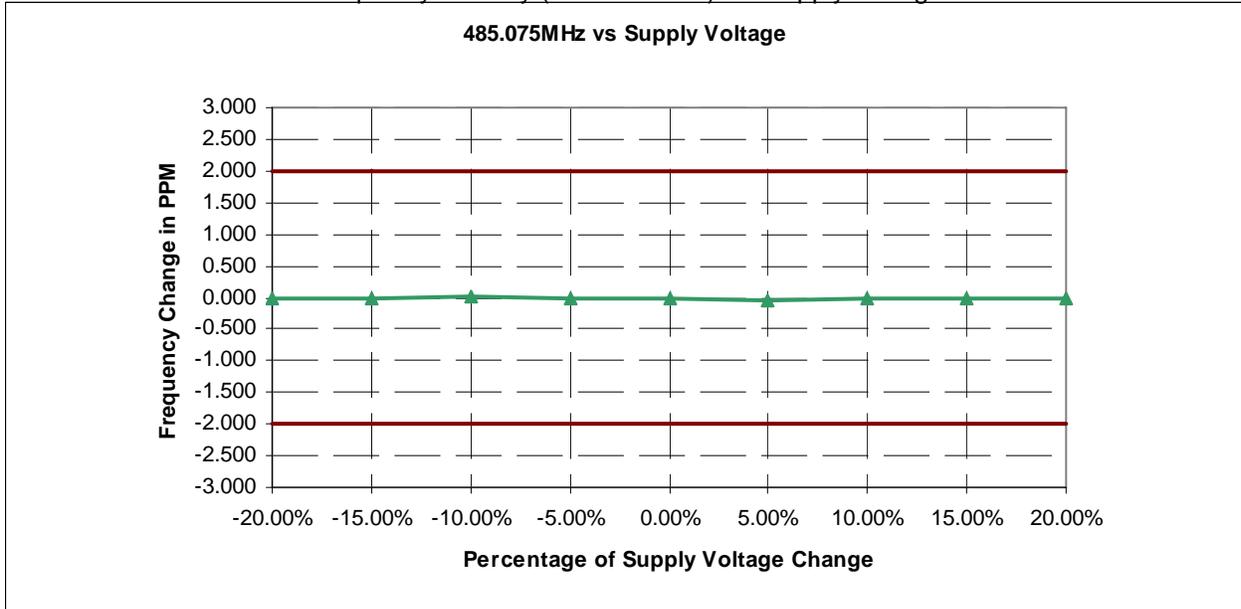


Exhibit 6G-1

Frequency Stability (153.0125 MHz) vs. Supply Voltage

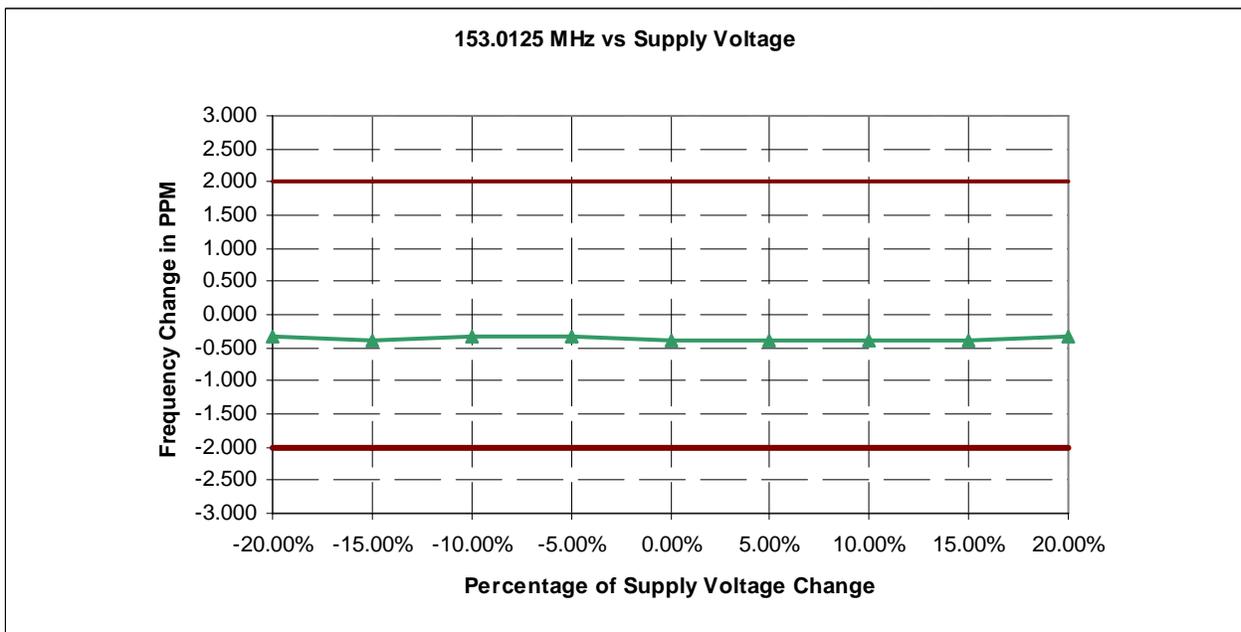


Exhibit 6G-2

Frequency Stability (485.075 MHz) vs. Temperature

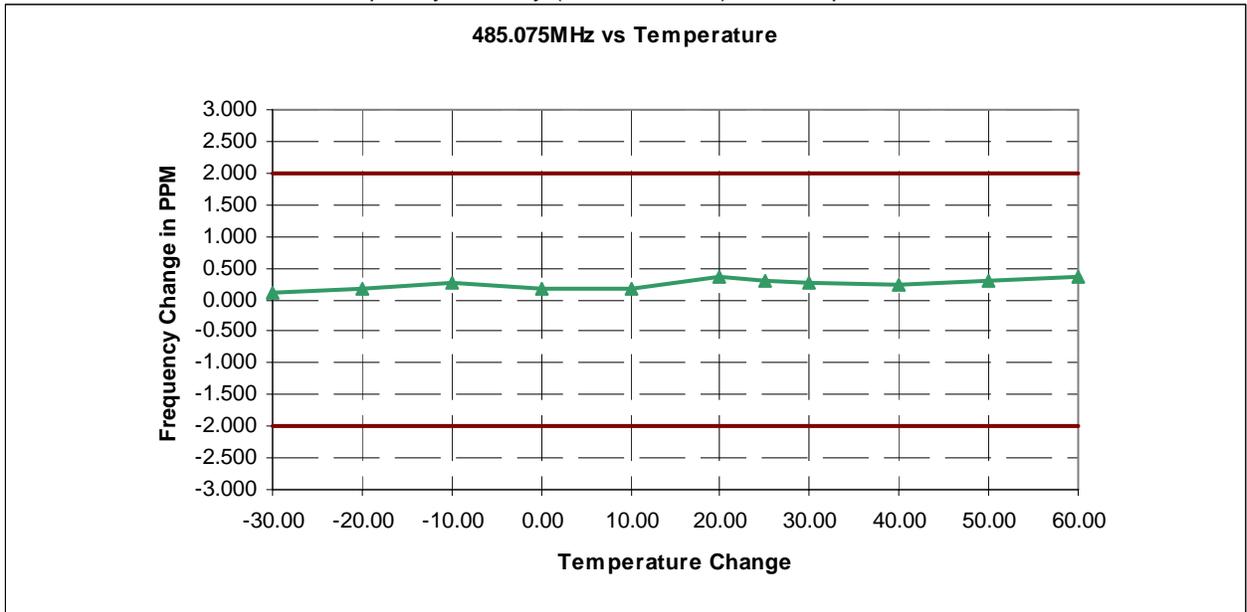


Exhibit 6G-3

Frequency Stability (153.0125 MHz) vs. Temperature

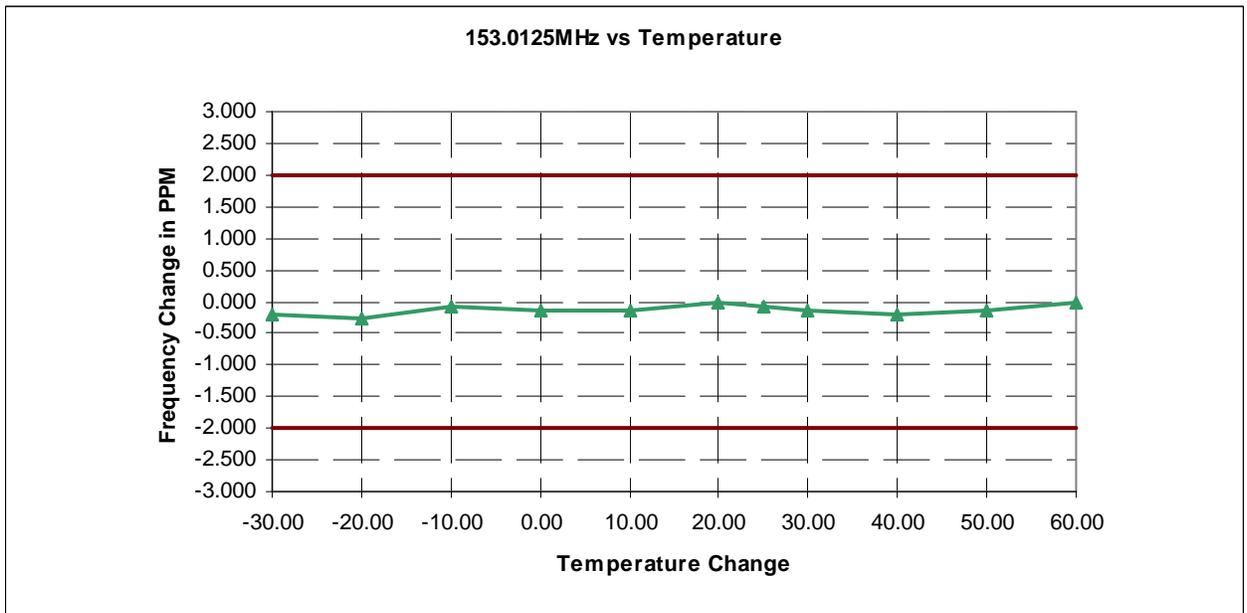


Exhibit 6G-4

**EXHIBIT 6H**

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

Note: Lines on graphs correspond to the FCC limit of -13dBm.

Spurs which are not shown is less than 100dB

450.075 MHz, 25 kHz Channel Spacing, 5.6Watts

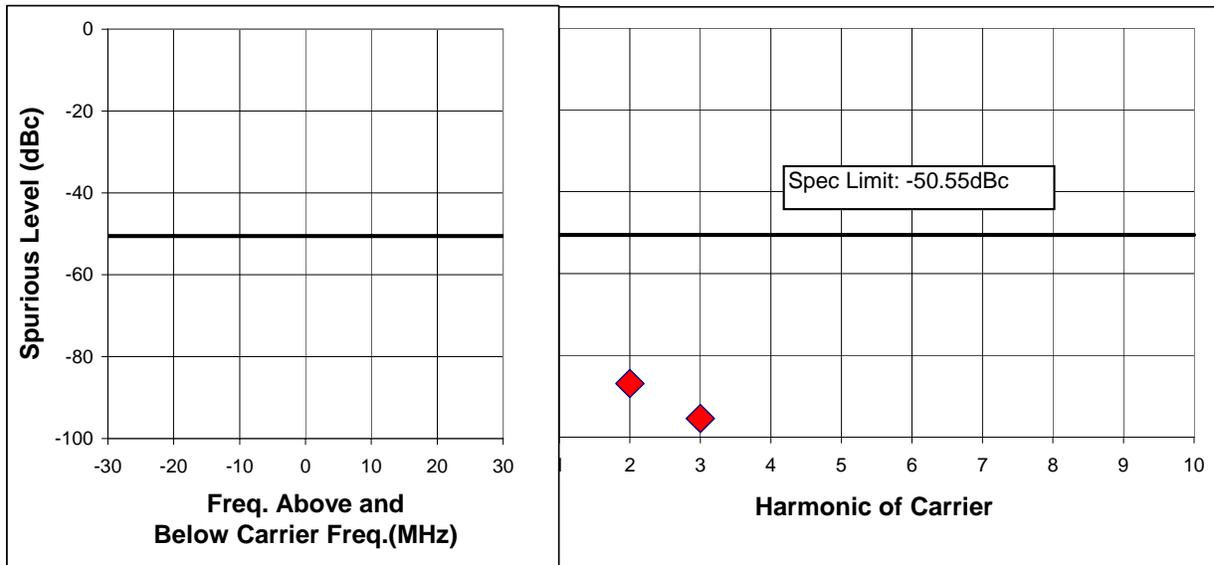


Exhibit 6H-1

485.075 MHz, 25KHz Channel Spacing, 5.6Watts

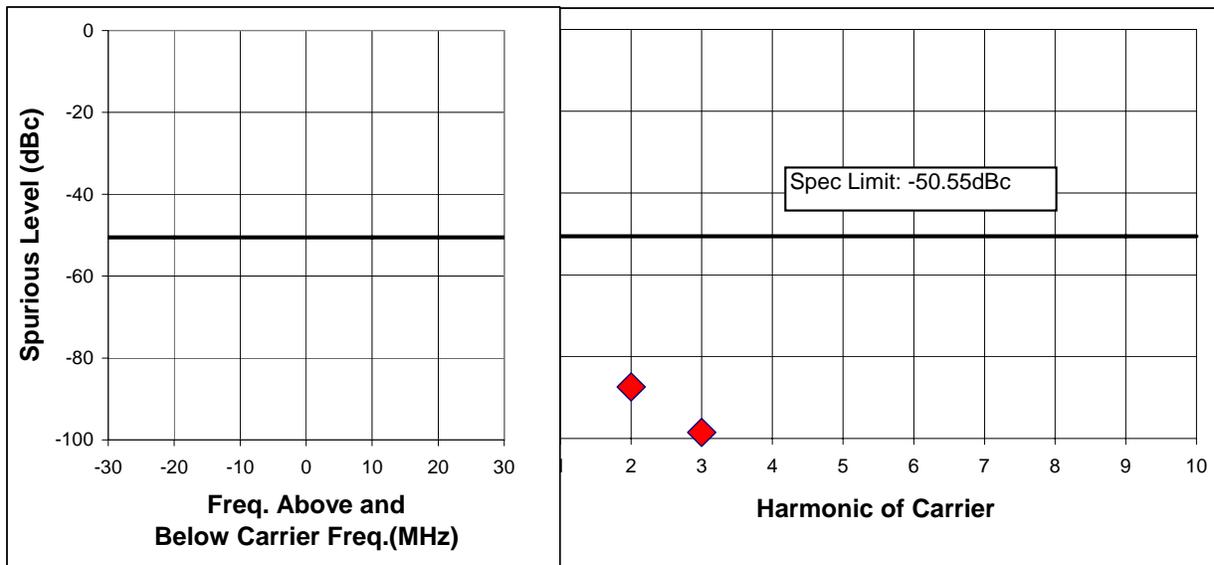


Exhibit 6H-2

519.975 MHz, 25 kHz Channel Spacing, 5.6Watts

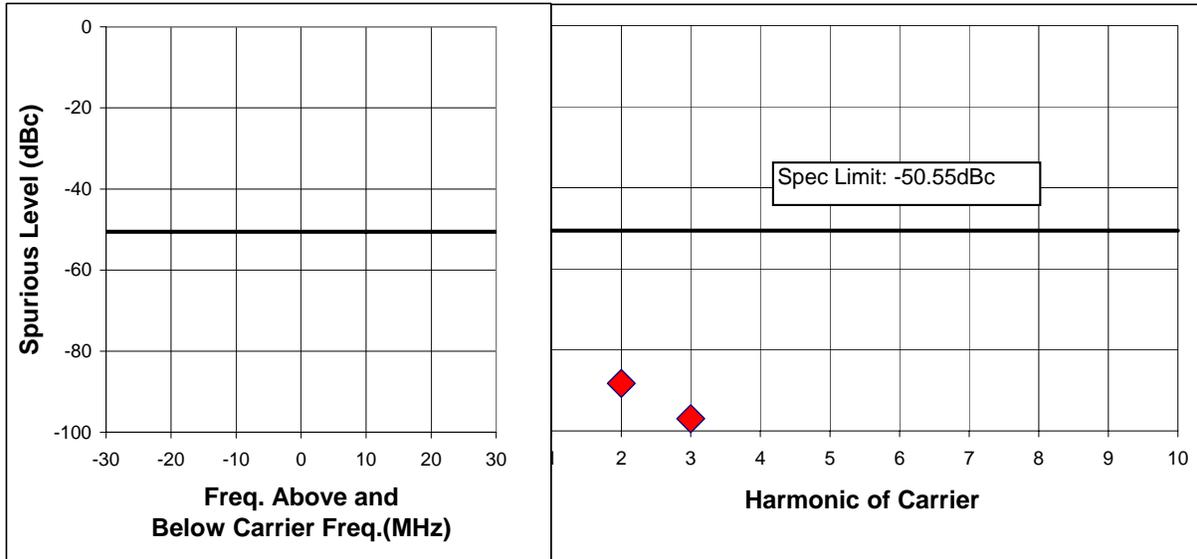


Exhibit 6H-3

136.0125 MHz, 25 kHz Channel Spacing, 6.6 Watts

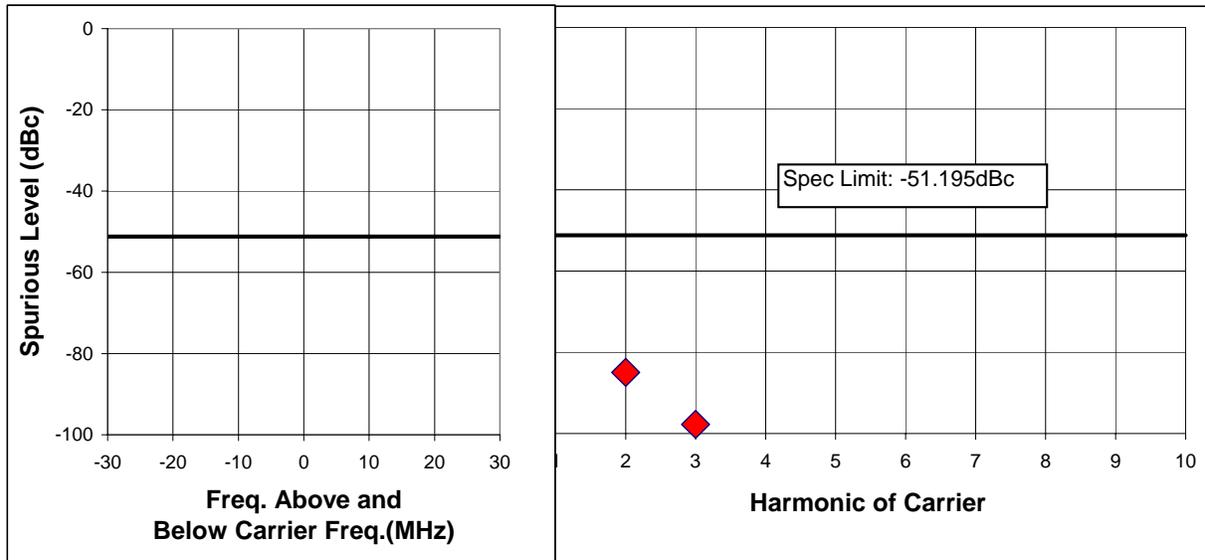


Exhibit 6H-4

153.0125 MHz, 25 kHz Channel Spacing, 6.6 Watts

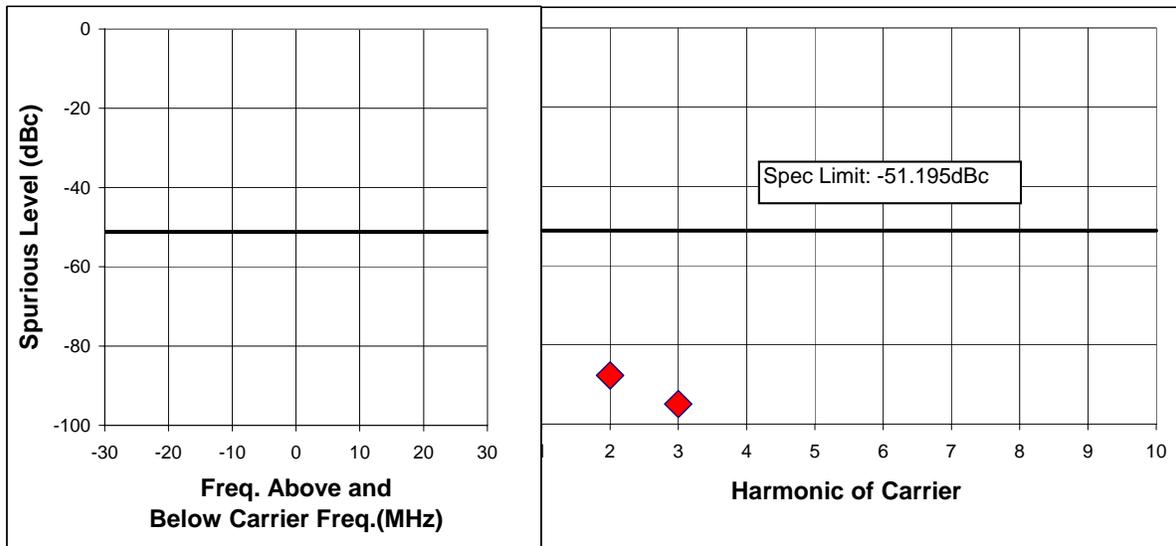


Exhibit 6H-5

173.9875 MHz, 25 kHz Channel Spacing, 6.6 Watts

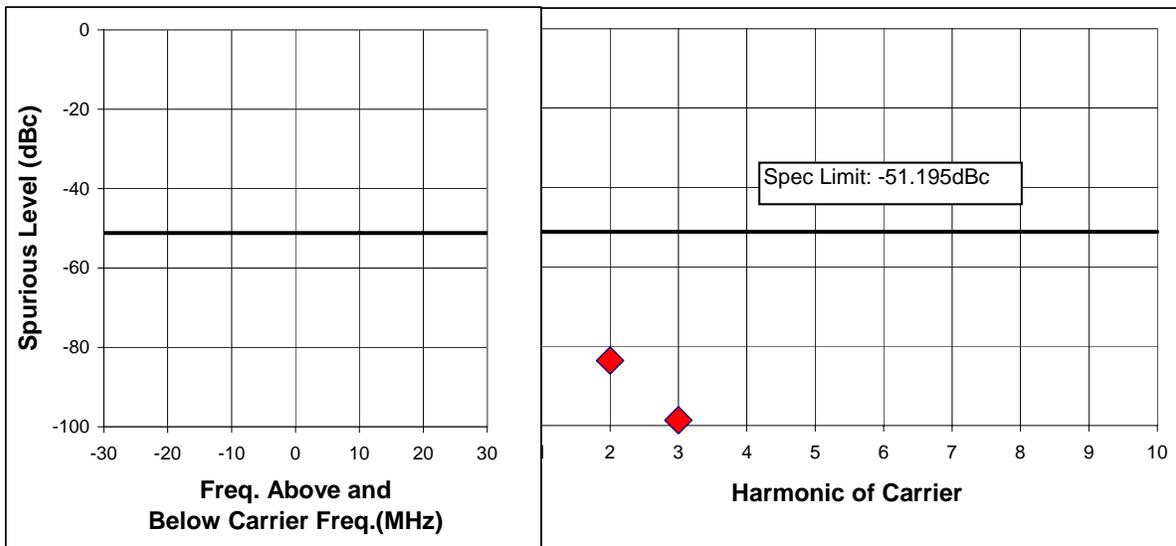
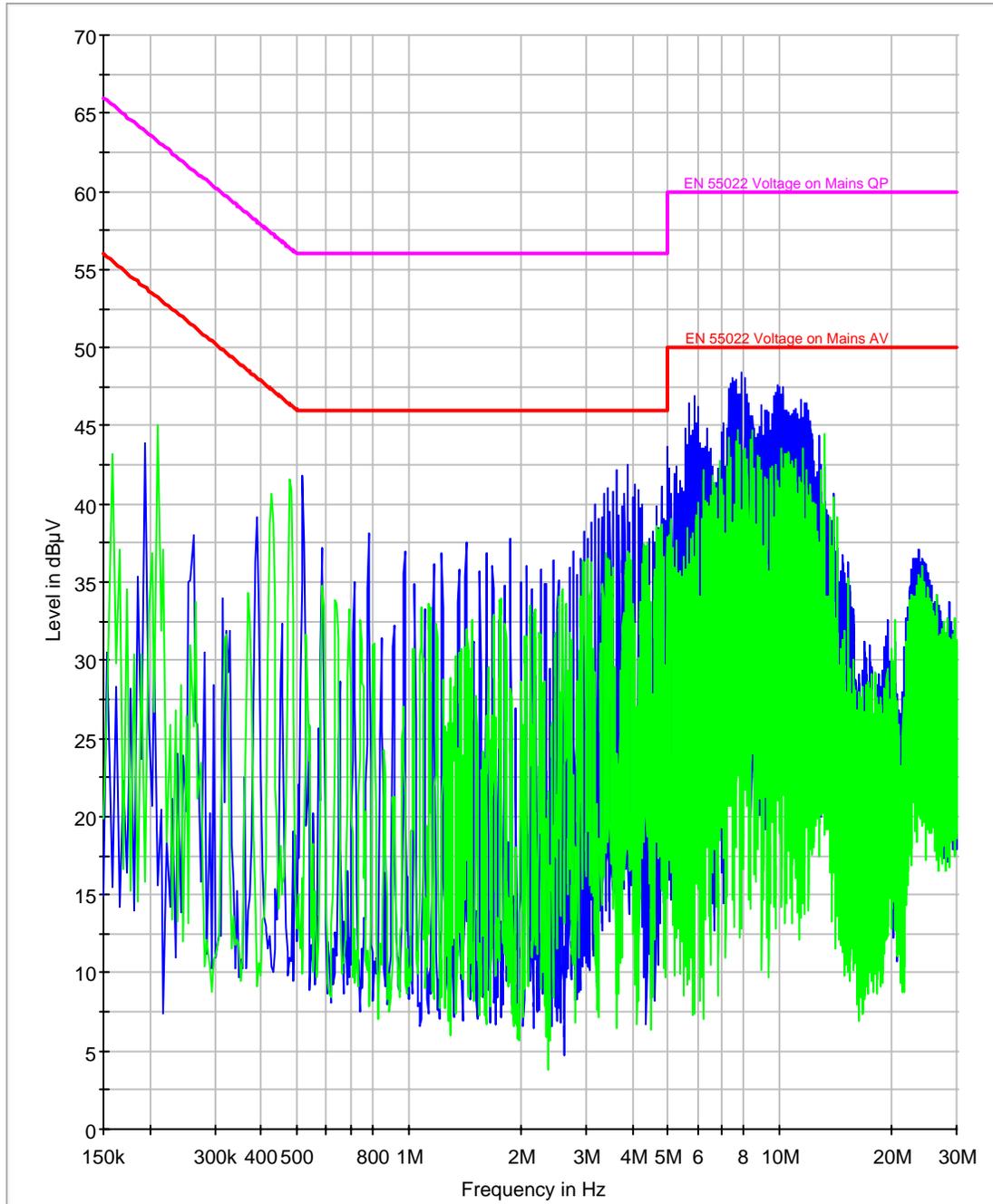


Exhibit 6H-6

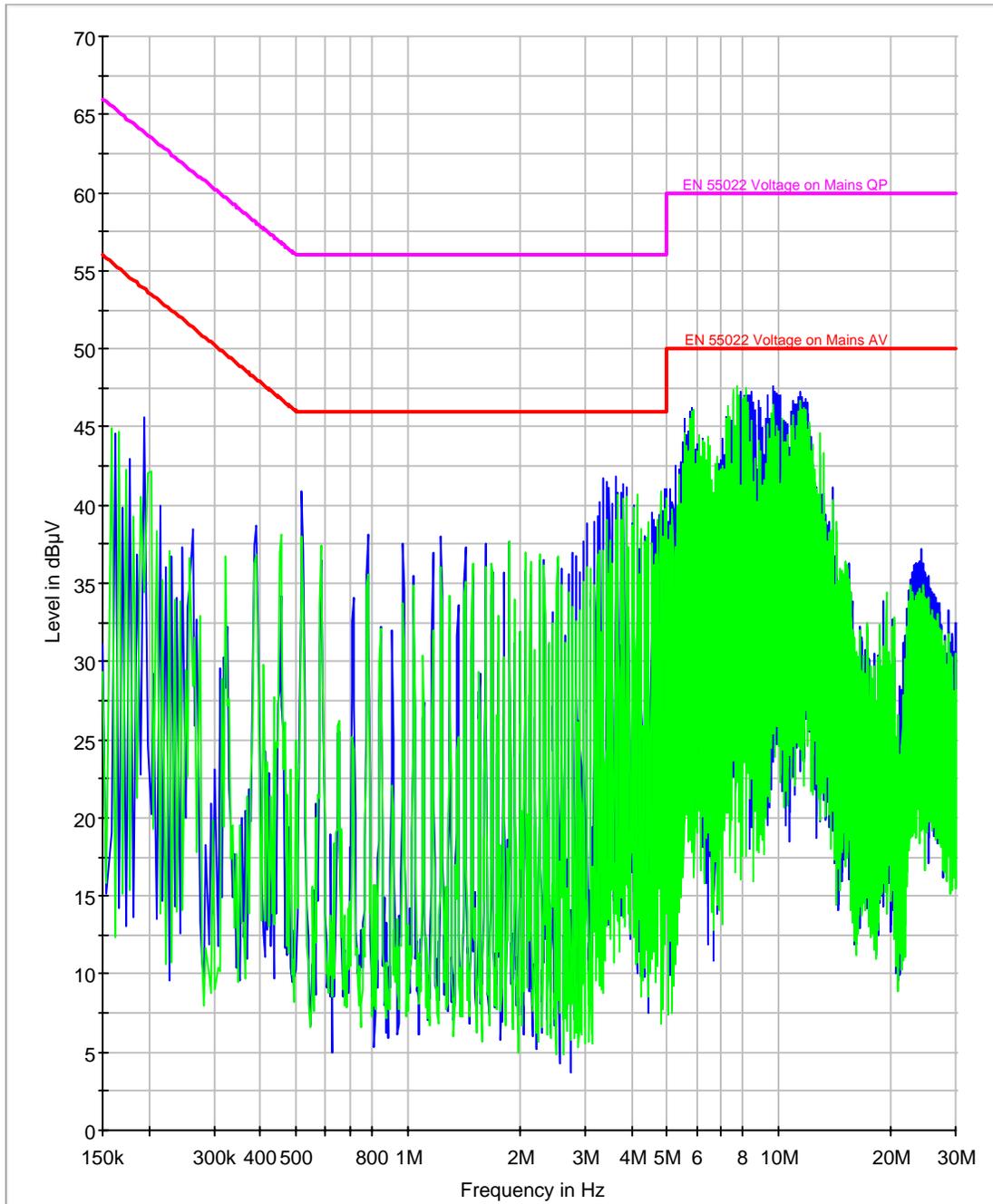
**EXHIBIT 6I**

Power Line Conducted Spurious Emissions - Pursuant to FCC Rules Part 15.107



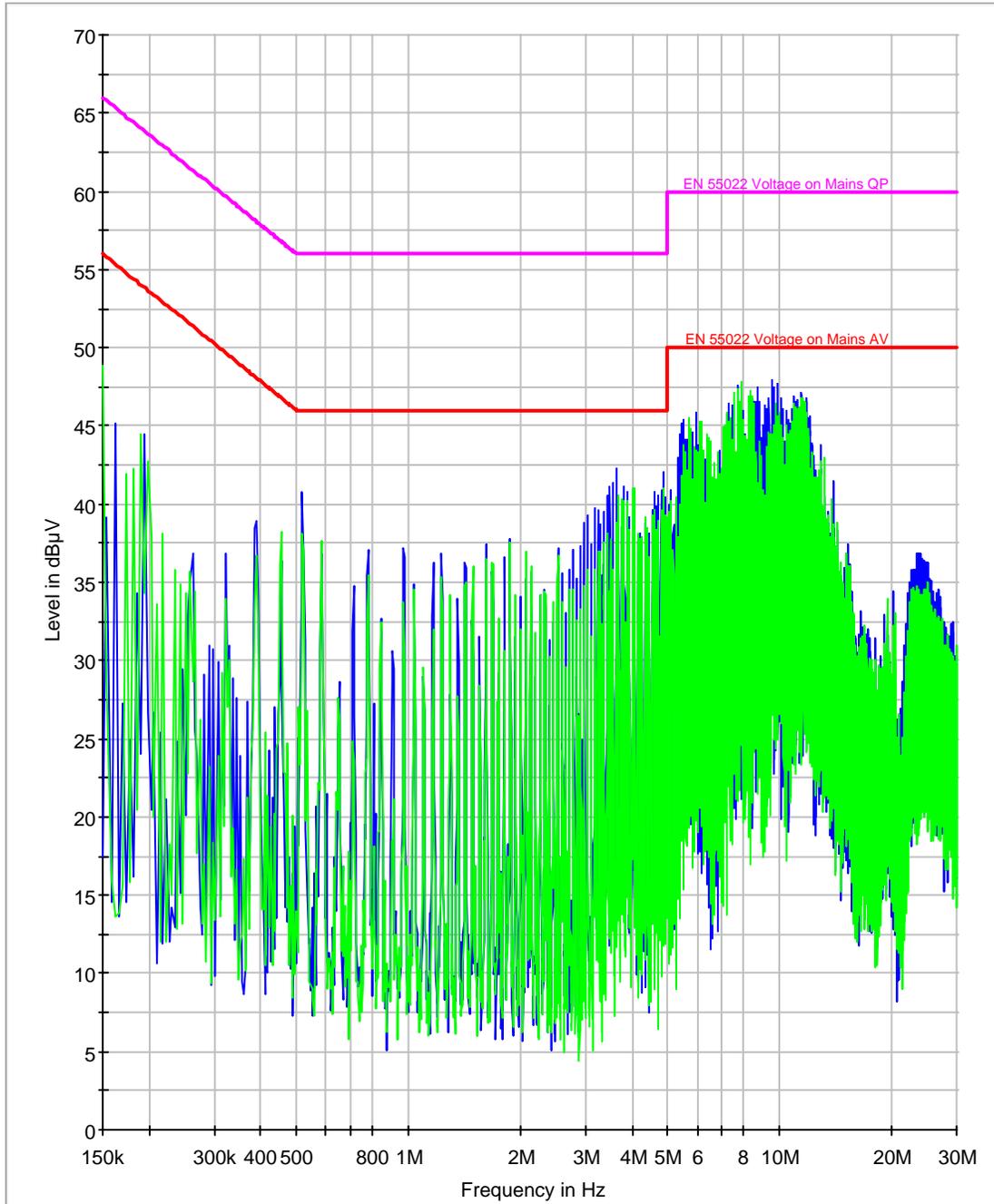
EMI Conducted Scan latest FCC Peak det - 3810 LISN  
Auto Merge Results N – Green L1 – Blue  
Radio Off

Exhibit 6I-1



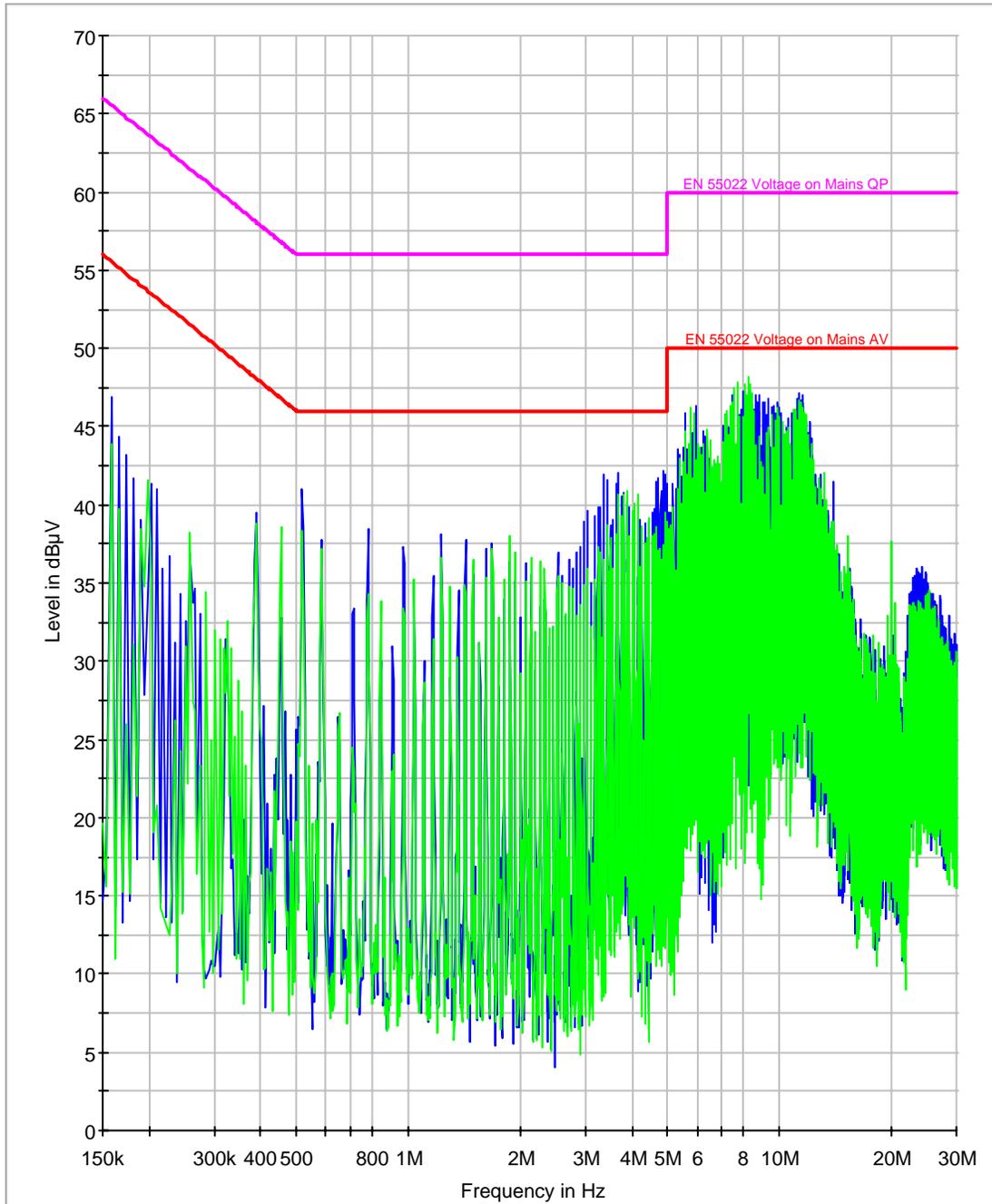
EMI Conducted Scan latest FCC Peak det - 3810 LISN  
Auto Merge Results N – Green L1 – Blue  
TX – 450.075MHz

Exhibit 6I-2



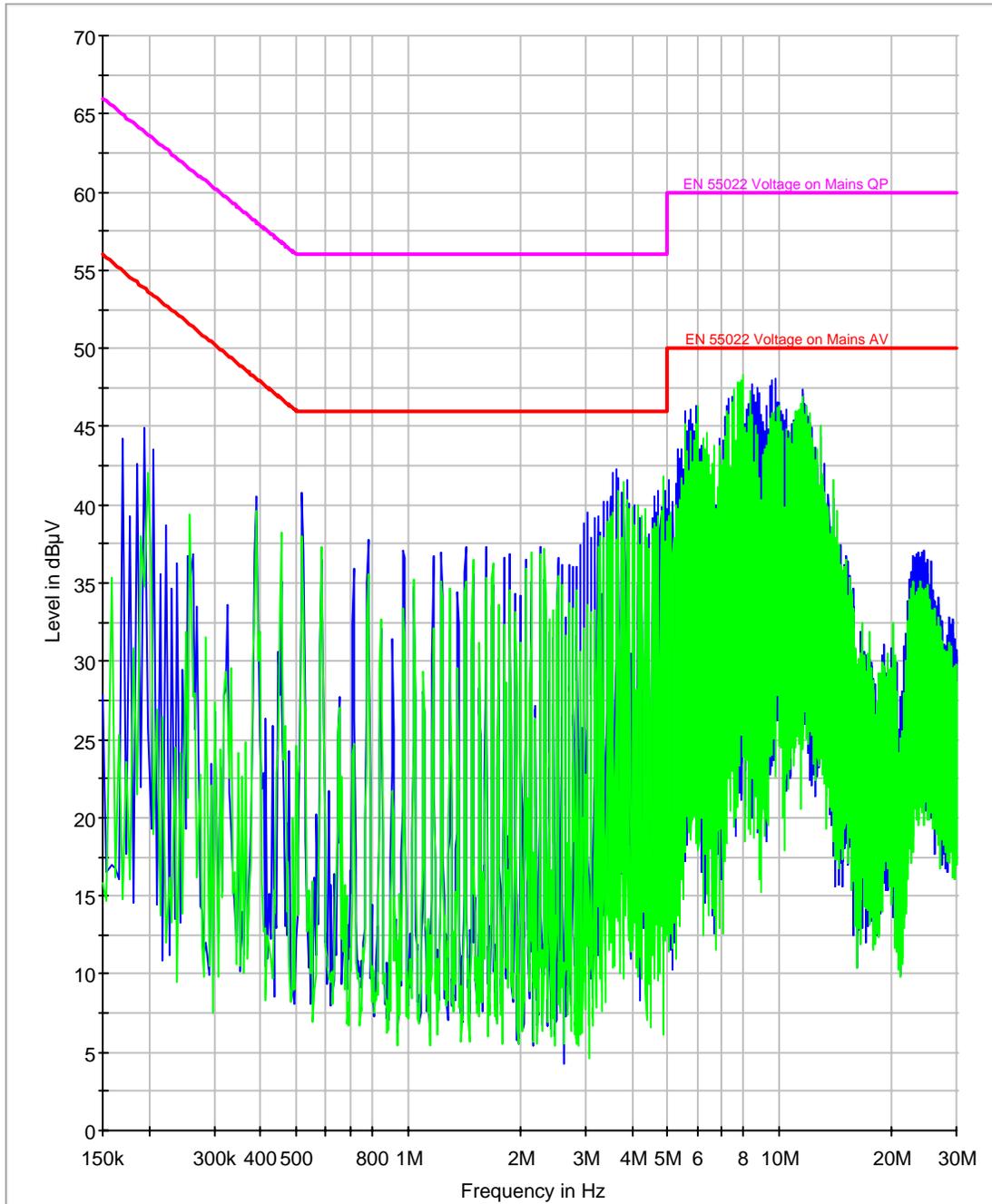
EMI Conducted Scan latest FCC Peak det - 3810 LISN  
Auto Merge Results N – Green L1 – Blue  
TX – 485.075MHz

Exhibit 6I-3



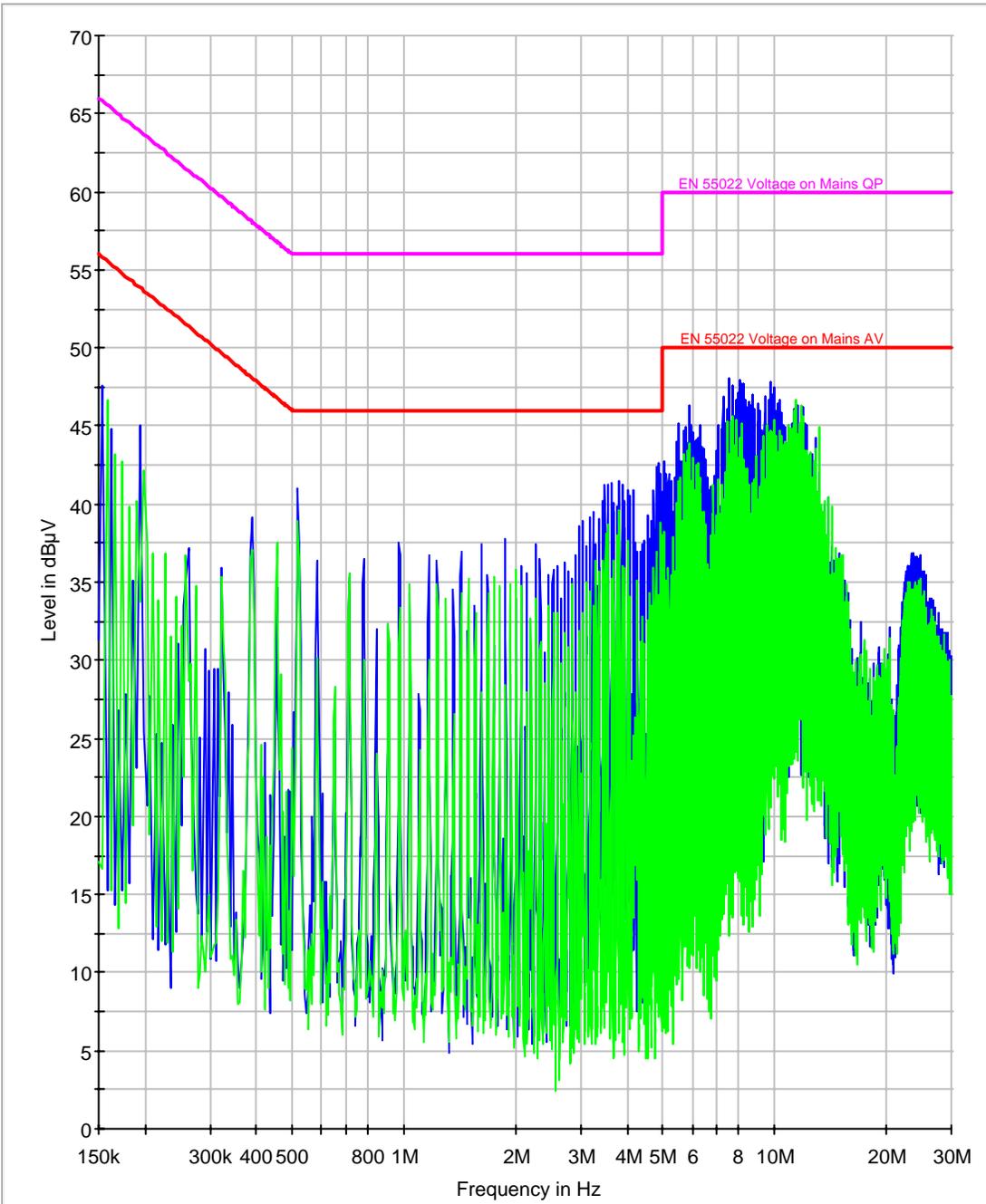
EMI Conducted Scan latest FCC Peak det - 3810 LISN  
Auto Merge Results N – Green L1 – Blue  
TX – 519.975MHz

Exhibit 6I-4



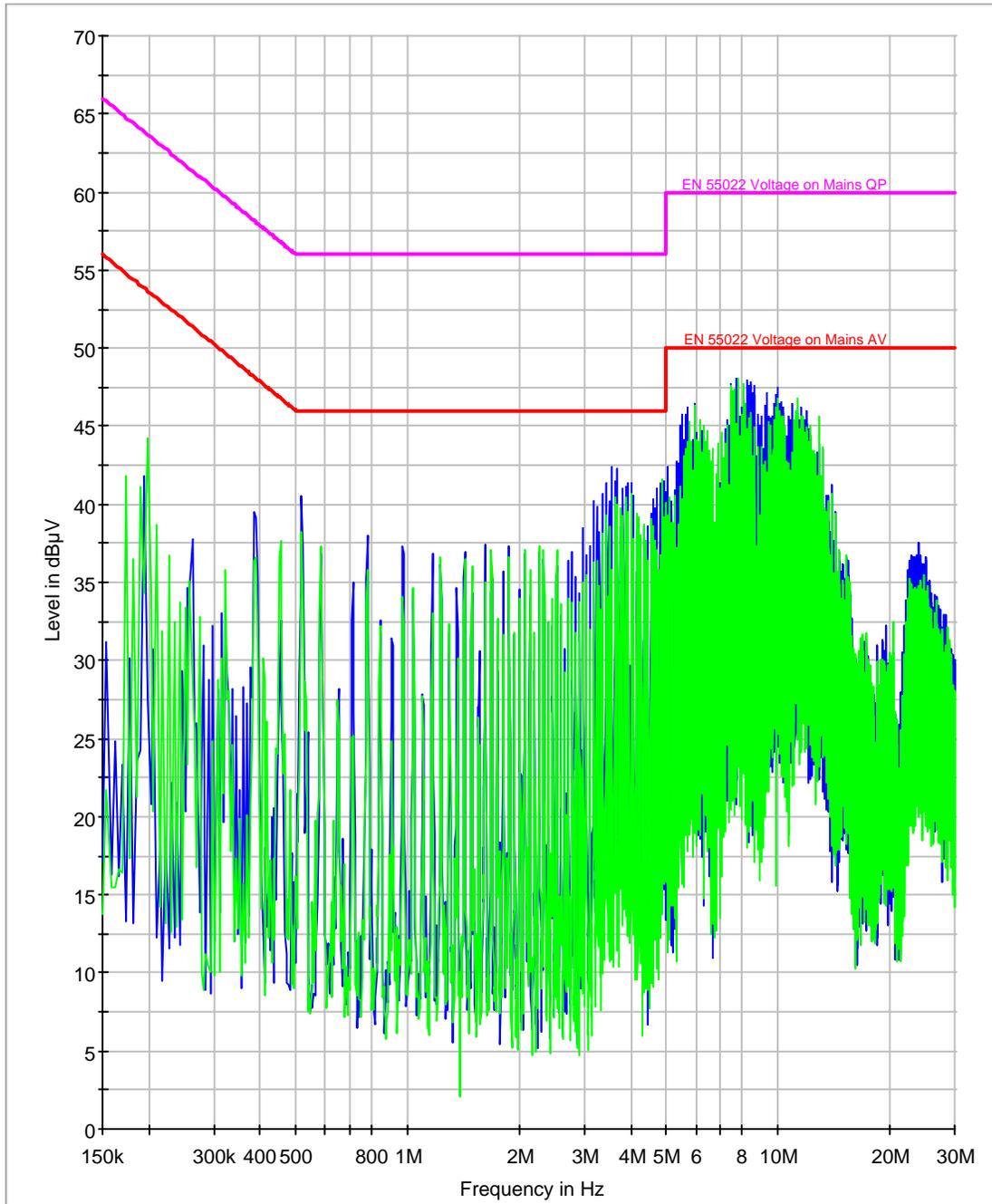
EMI Conducted Scan latest FCC Peak det - 3810 LISN  
Auto Merge Results N – Green L1 – Blue  
TX – 136.0125MHz

Exhibit 6I-5



EMI Conducted Scan latest FCC Peak det - 3810 LISN  
Auto Merge Results N – Green L1 – Blue  
TX – 153.0125MHz

Exhibit 6I-6



EMI Conducted Scan latest FCC Peak det - 3810 LISN  
Auto Merge Results N – Green L1 – Blue  
TX – 173.9875MHz

Exhibit 6I-7

EXHIBIT 6J

Transient Frequency Behavior

TX 485.075 MHz – 12.5 kHz Channel Spacing – Transmitter On

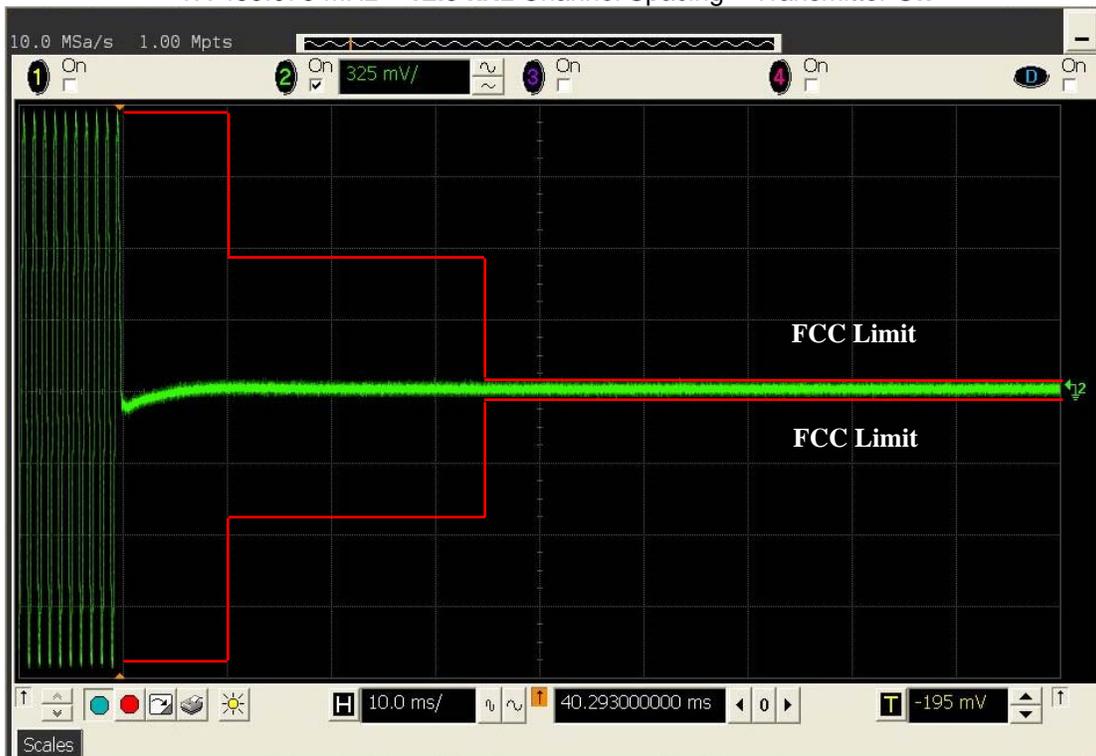
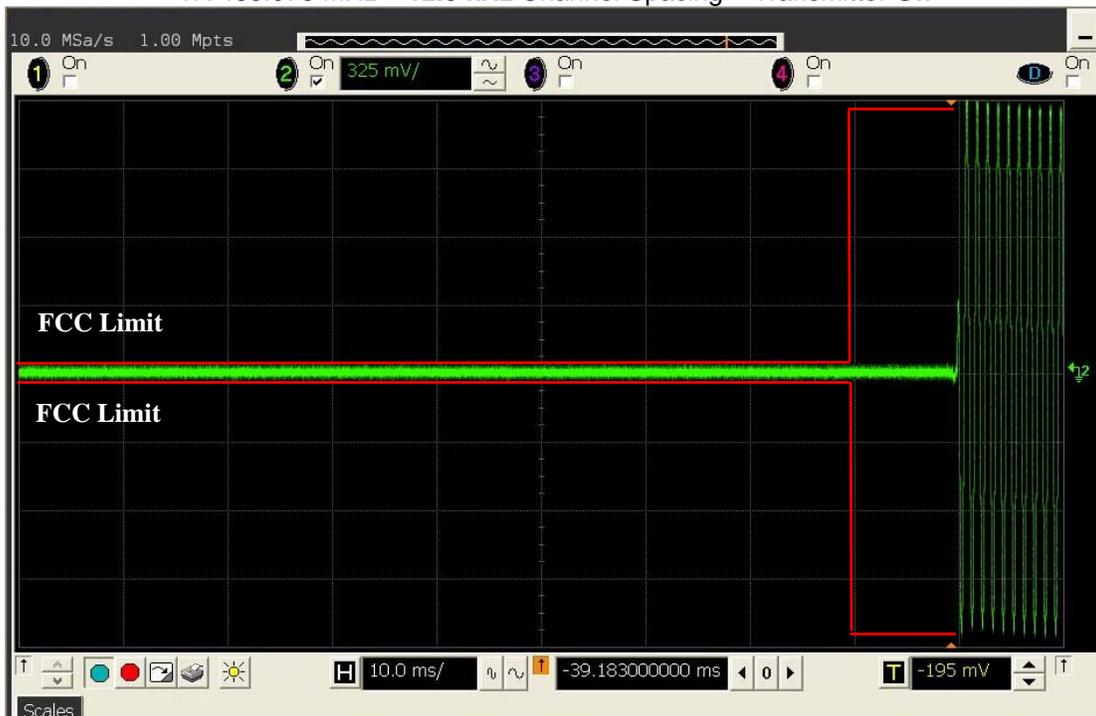


Exhibit 6J-1

TX 485.075 MHz – 12.5 kHz Channel Spacing – Transmitter Off



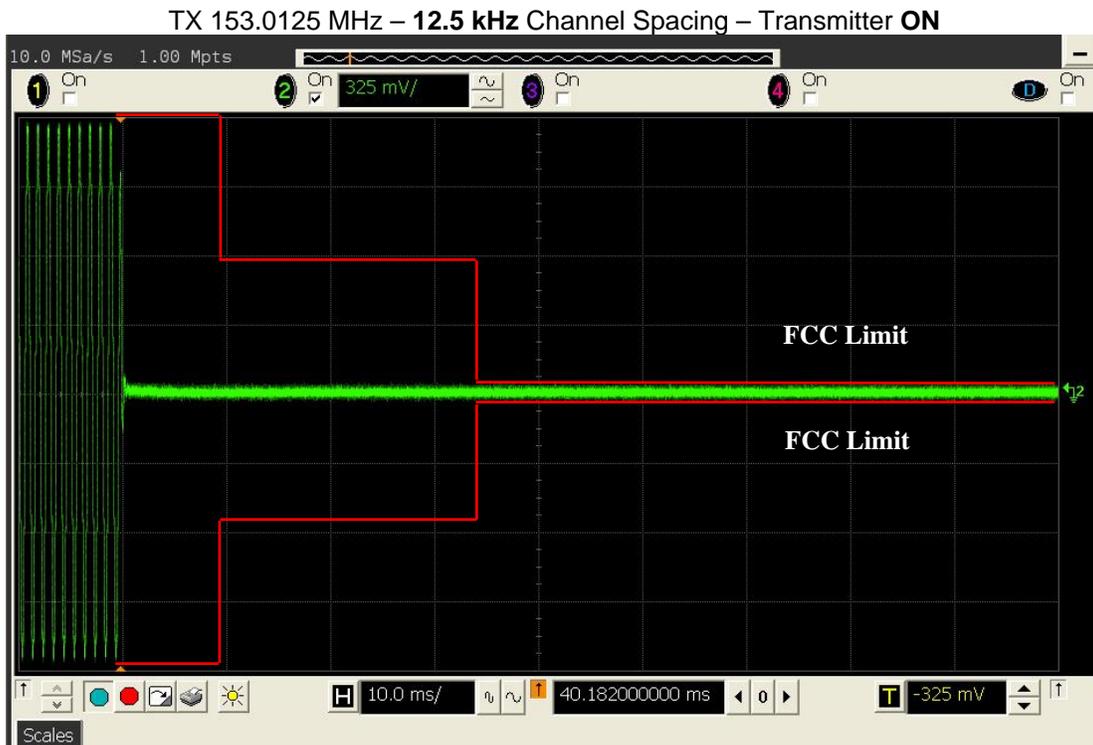


Exhibit 6J-3

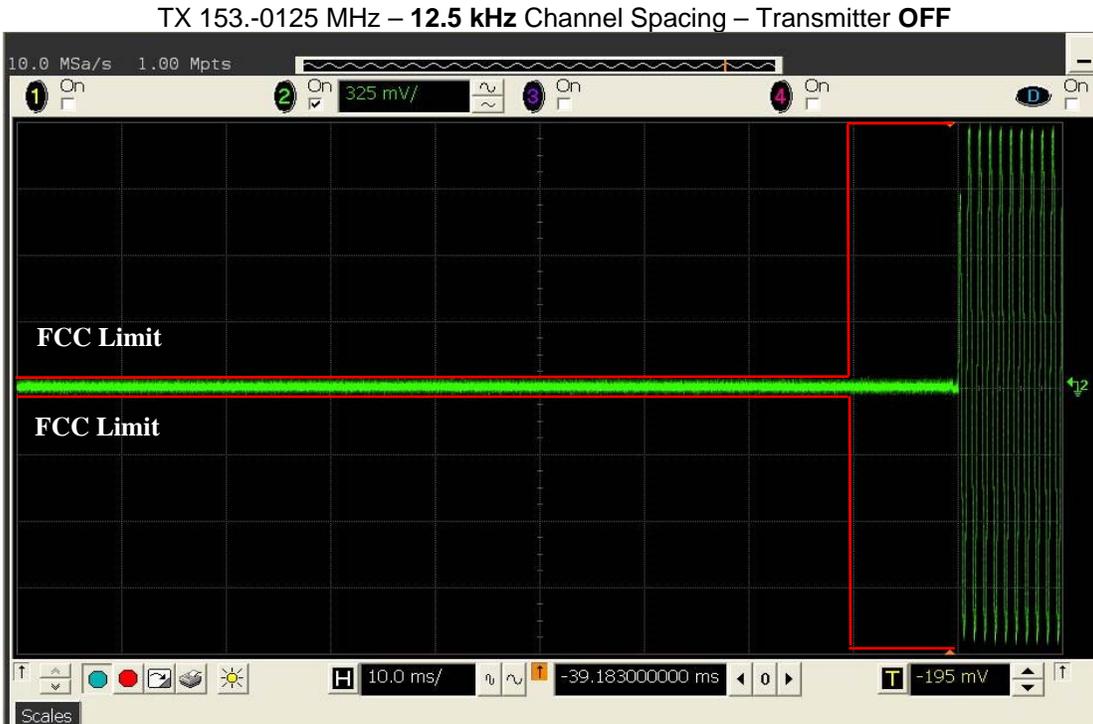


Exhibit 6J-4

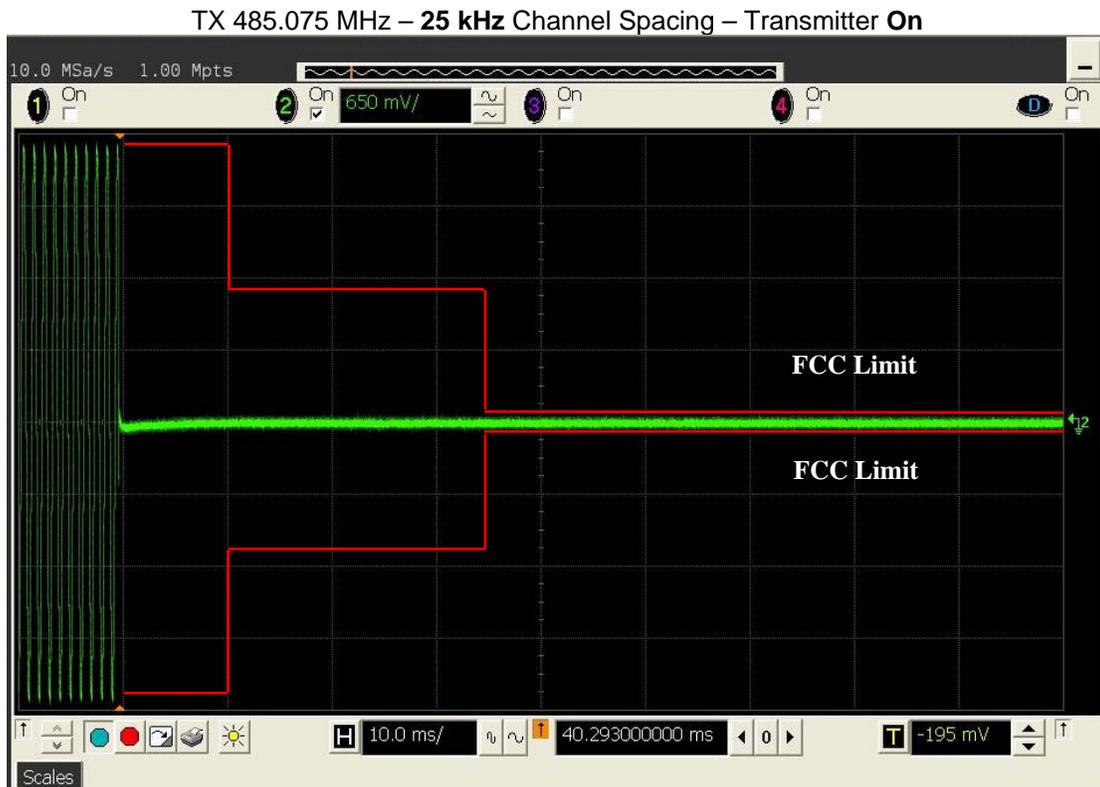


Exhibit 6J-5

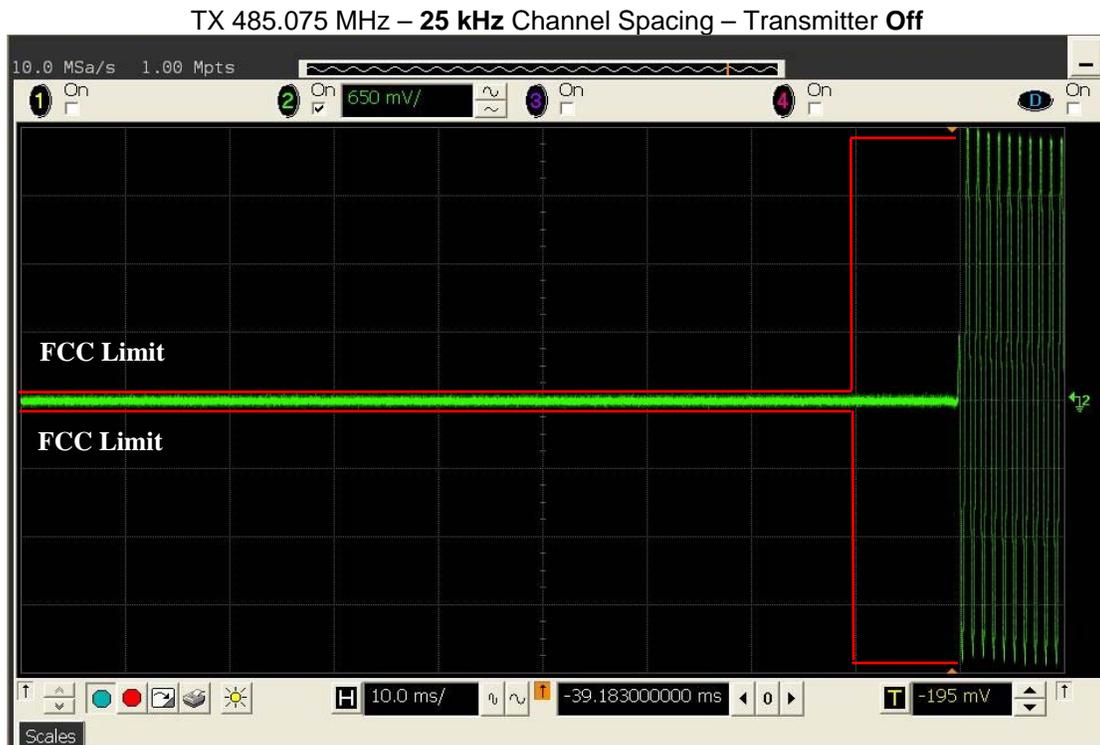


Exhibit 6J-6

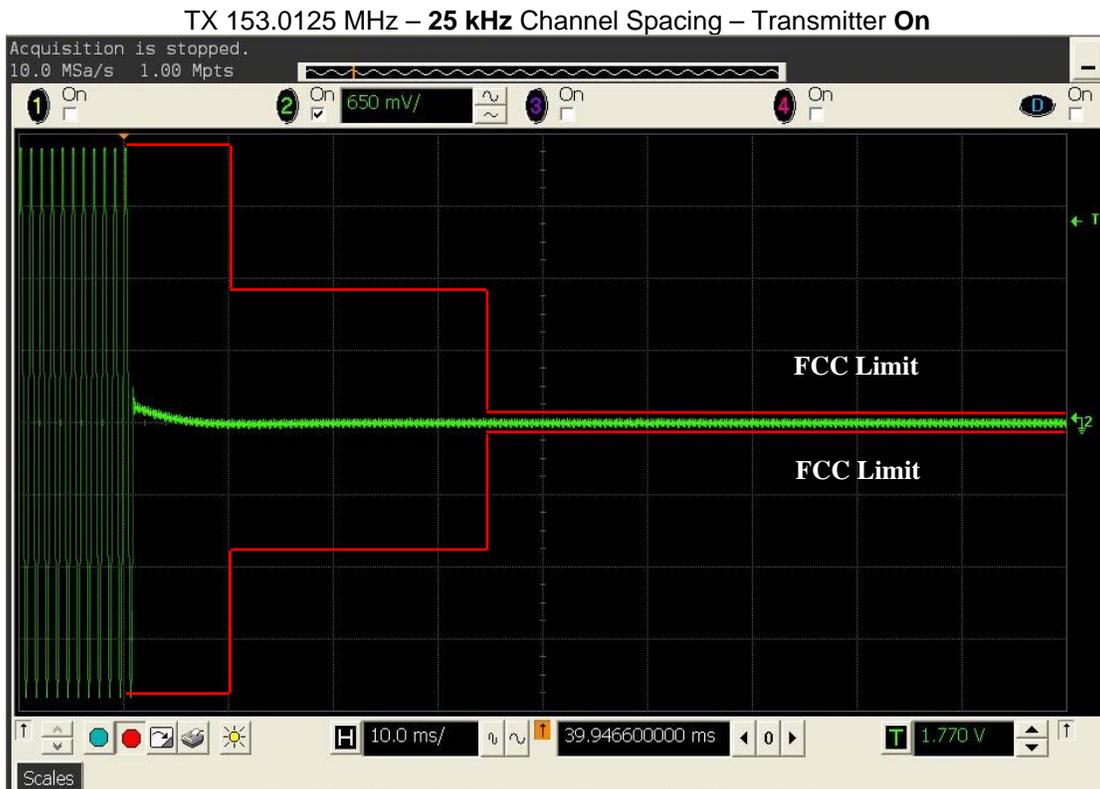


Exhibit 6J-7

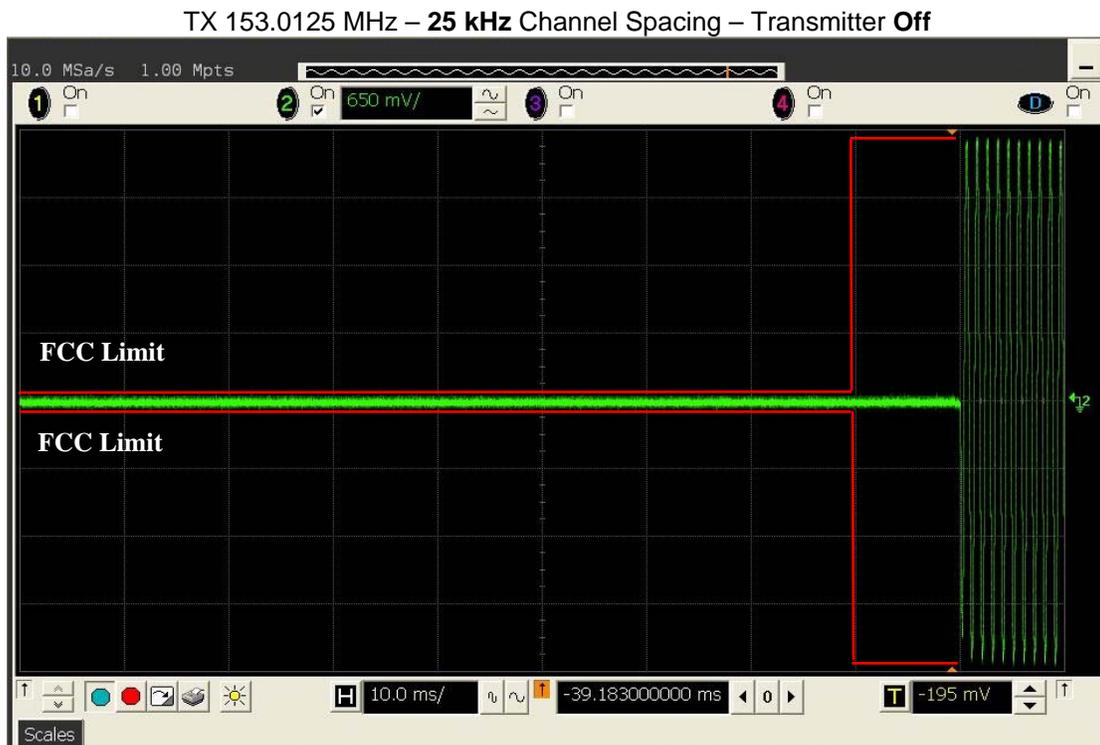


Exhibit 6J-8