EXHIBIT 6

INDEX OF SUBMITTED MEASURED DATA

<u>MEA</u>	<u>SUREMENT</u>	<u>EXHIBIT</u>	NUMBER OF PAGES
I	RF Power Output Data	6A	2
II	Audio Response & Low Pass Filter Response	6B 6C	2 2
Ш	Modulation Limiting	6D	2
IV	Occupied Bandwidth	6E	10
V	Adjacent Channel Coupled Power Ratio	6F	3
VI	Conducted Spurious Emissions	6G	23
VII	Radiated Spurious Emissions	6H	23
VIII	1559-1610 Emission (GNSS)	61	3
IX	Frequency Stability		
	A. Temperature	6J-1	1
	B. Supply Voltage	6J-1	1
Х	Transient Frequency Behavior	6K	2

* The test data is re-used and taken from AZ492FT4896 and AZ492FT7037.

Note: Data was tested to show compliance to RSS102 and RSS119.

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 (Q403).

Frequency = 450.0125 MHz:	
Output RF power DC Voltage DC Current	54 Watts 13.6 Volts 7.87 Amps
Frequency = 450.0125 MHz:	
Output RF power DC Voltage DC Current	4 Watts 13.6 Volts 1.91 Amps
<u>Frequency = 484.9875 MHz</u>	
Output RF power DC Voltage DC Current	54 Watts 13.6 Volts 7.79 Amps
<u>Frequency = 484.9875 MHz:</u>	
Output RF power DC Voltage DC Current	4 Watts 13.6 Volts 2.00 Amps
<u>Frequency = 511.9875 MHz:</u>	
Output RF power DC Voltage DC Current	48 Watts 13.6 Volts 7.44 Amps
<u>Frequency = 511.9875 MHz:</u>	
Output RF power DC Voltage DC Current	4 Watts 13.6 Volts 2.06 Amps
<u>Frequency = 519.9875 MHz:</u>	
Output RF power DC Voltage DC Current	30 Watts 13.6 Volts 5.32 Amps
<u>Frequency = 469.9875 MHz:</u>	
Output RF power	4 Watts

DC Voltage DC Current 13.6 Volts 2.01 Amps

13.6 Volts

7.94 A

Frequency =764.0125 MHz:

Output RF power	2 Watts
DC Voltage	13.6 Volts
DC Current	1.9 A
Frequency =764.0875 MHz:	
Output RF power	3.5 Watts
DC Voltage	13.6 Volts
DC Current	2.4 A
Output RF power	18 Watts
DC Voltage	13.6 Volts
DC Current	5.35 A
Output RF power	36 Watts

DC Current		

Frequency =823.9875 MHz:

DC Voltage

Output RF power	3.5 Watts
DC Voltage	13.6 Volts
DC Current	2.52 A
Output RF power	21 Watts
DC Voltage	13.6 Volts
DC Current	5.9 A
Output RF power	42 Watts
DC Voltage	13.6 Volts
DC Current	8.95 A
Frequency =868.9875 MHz:	
Output RF power	3.5 Watts
DC Voltage	13.6 Volts
DC Current	2.22 A
Output RF power	21 Watts
DC Voltage	13.6 Volts
DC Current	5.15 A
Output RF power	42 Watts
DC Voltage	13.6 Volts
DC Current	7.8 A

EXHIBIT 6B

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

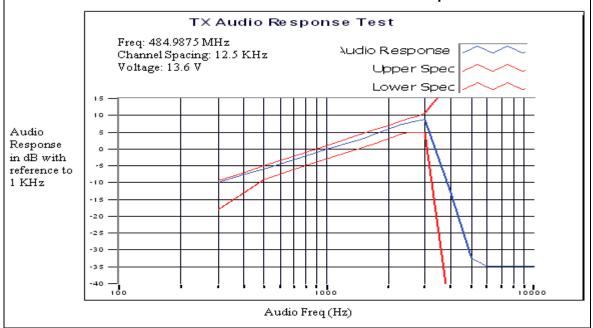


Figure 6B-1: 12.5 kHz Channel Spacing, 484.9875 MHz

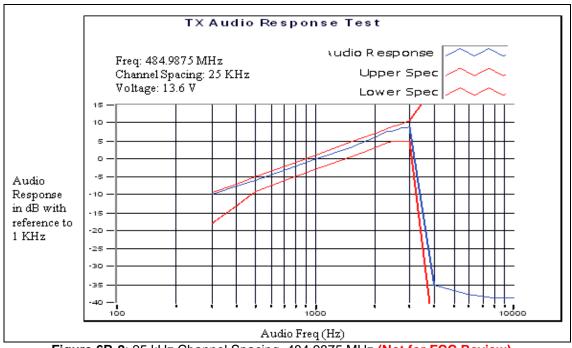
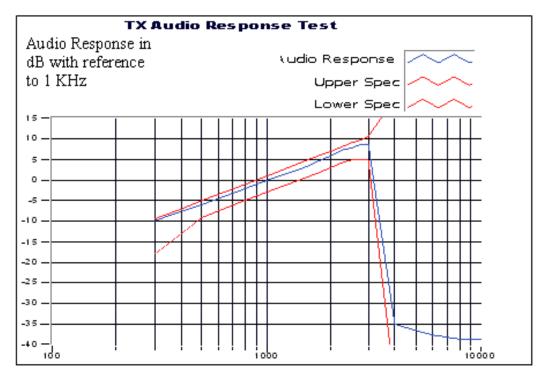
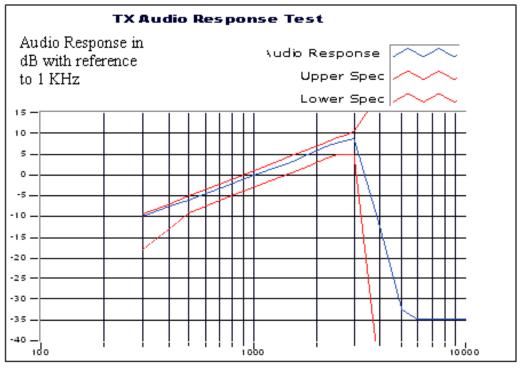


Figure 6B-2: 25 kHz Channel Spacing, 484.9875 MHz (Not for FCC Review)



Audio Freq (Hz) Figure 6B-3: 12.5 kHz Channel Spacing, 860.0125 MHz



Audio Freq (Hz)

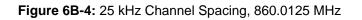


EXHIBIT 6C

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

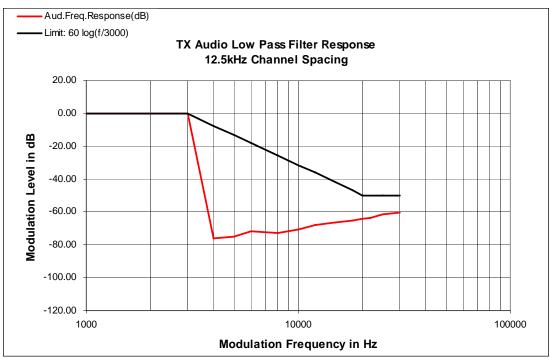


Figure 6C-1: 12.5 kHz Channel Spacing, 425.0125 MHz

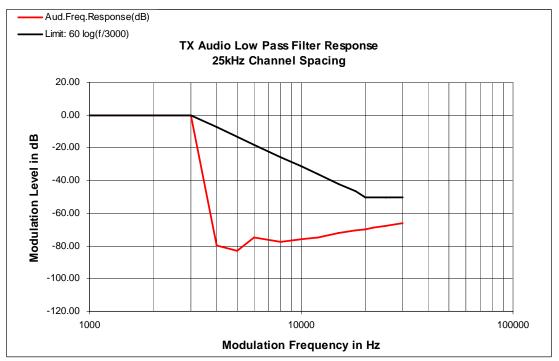


Figure 6C-1: 25 kHz Channel Spacing, 425.0125 MHz (Not for FCC Review)

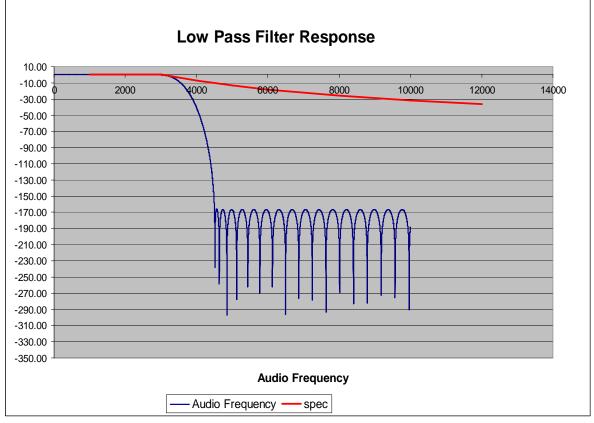
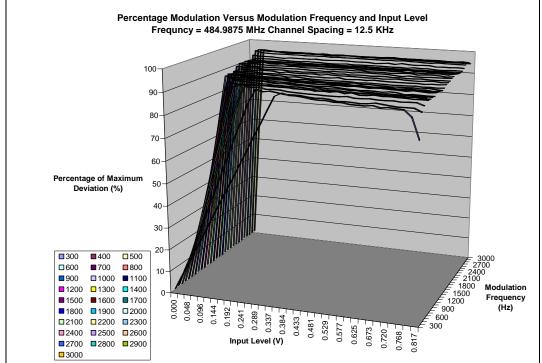


Figure 6C-3: 1860.0125 MHz, Transmit Audio Low Pass Filter Response

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

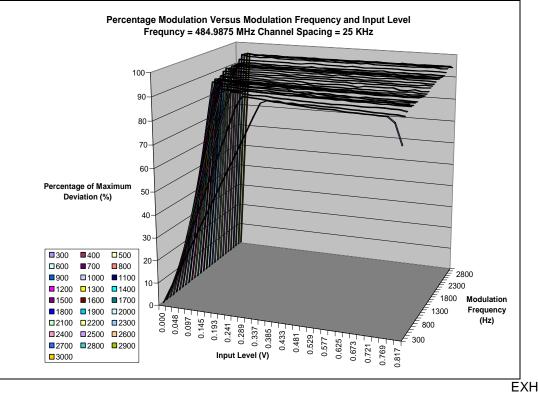


EXHIBIT 6 SHEET 8 OF 75

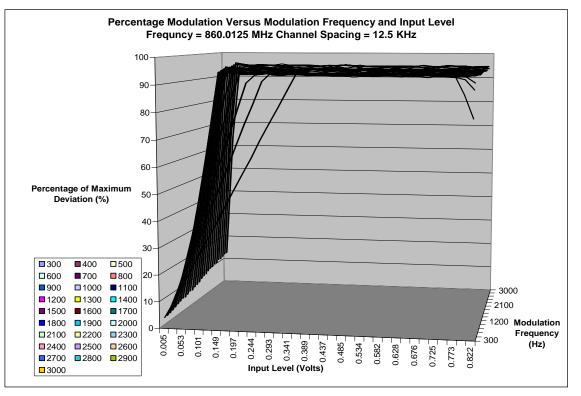


Figure 6D-2: The Percentage of Max. Deviation on the "Z" axis is referenced to 5.0 kHz for 25 kHz bandwidth

Figure 6D-3: The Percentage of Max. Deviation on the "Z" axis is referenced to 2.5 kHz for 12.5 kHz bandwidth

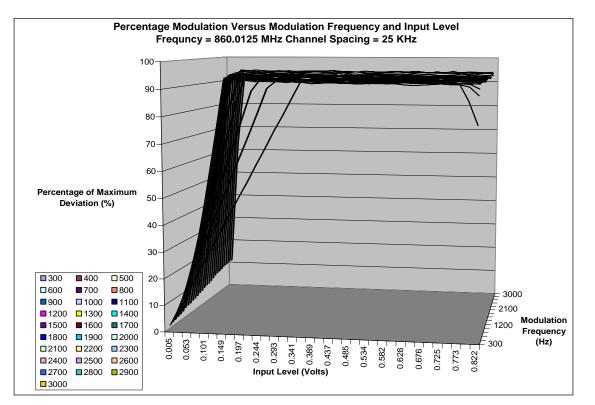


Figure 6D-4: The Percentage of Max. Deviation on the "Z" axis is referenced to 5.0 kHz for 25 kHz bandwidth EXHIBIT 6 SHEET 9 OF 75

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

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 = $2(M+D) = 2^*(3.0 \text{ kHz} + 2.5 \text{ kHz}) = 11 \text{ kHz} = \rightarrow 11\text{ KO}$ 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 = $2(M+D) = 2^*(3 \text{ kHz} + 5 \text{ kHz}) = 16 \text{ kHz} = \rightarrow 16\text{ KO}$ 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 <u>Digital (12.5 kHz Channelization, Digital Voice)</u>: 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).

EXHIBIT 6 SHEET 10 OF 75

APPLICANT: MOTOROLA SOLUTIONS INC.

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 <u>Digital Modulation (20 kHz Channelization, Digital Voice with Encryption):</u> Emission Designator 20K0F1E

In this case, the maximum modulating frequency is 6 kHz with a 4 kHz deviation.

BW = $2(M+D) = 2^*(6 \text{ kHz} + 4 \text{ kHz}) = 20 \text{ kHz} = 20 \text{ kHz}$ 20K0 F1E portion of the designator indicates digital voice.

Therefore, the entire designator for 20 kHz channelization analog voice is 20K0F1E

EXHIBIT 6E-7 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.

 $BW = 2(M+D) = 2^{*}(6.0 \text{ kHz} + 4.0 \text{ kHz}) = 20 \text{ kHz} ===> 20K0$ 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	<u>Symbol</u>	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 +600 Hz. 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.

EXHIBIT 6 SHEET 11 OF 75 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).

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

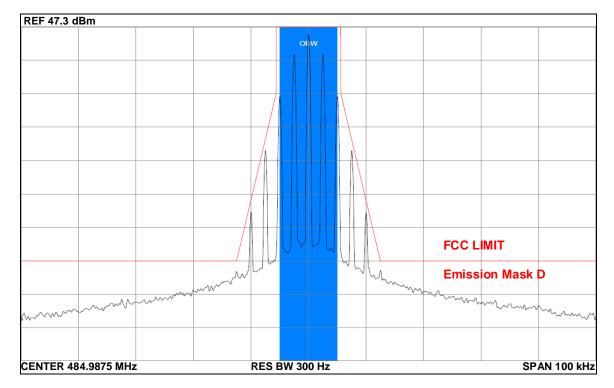


Figure 6E-1: 12.5 kHz Channel Spacing, 484.9875 MHz, Analog Voice, Mask D 11K0F3E

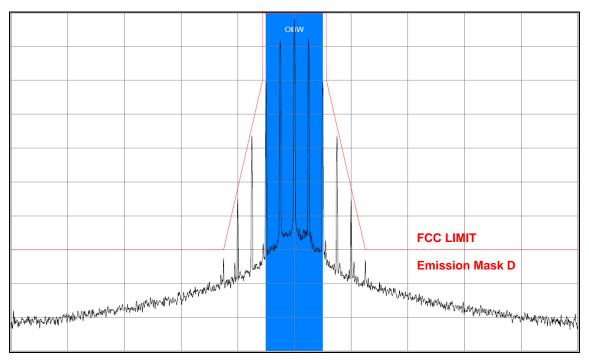


Figure 6E-2: 12.5 kHz Channel Spacing, 860.0125 MHz, Analog Voice, 11K0F3E

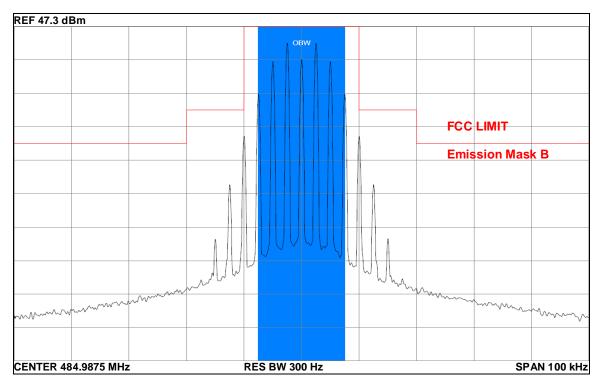


Figure 6E-3: 25 kHz Channel Spacing, 484.9875 MHz, Analog Voice, Mask B 16K0F3E (Not for FCC Review)

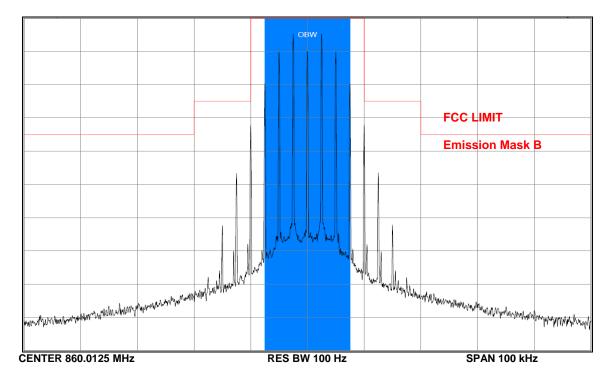


Figure 6E-4: 12.5 kHz Channel Spacing, 860.0125 MHz, Analog Voice, Mask B 16K0F3E

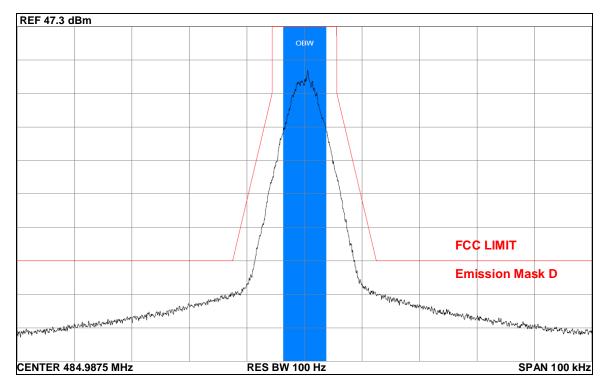


Figure 6E-5: 12.5 kHz Channel Spacing, 484.9875 MHz, Digital Data, Mask D 8K10F1D

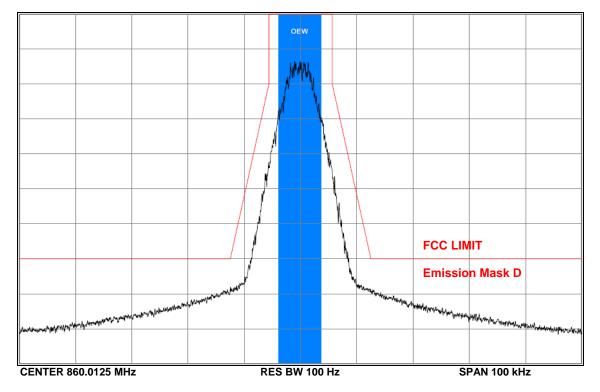


Figure 6E-6: 12.5 kHz Channel Spacing, 860.0125 MHz, Digital Data, Mask D 8K10F1D

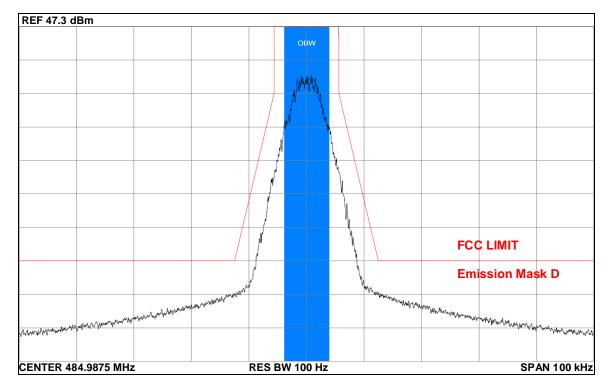


Figure 6E-7: 12.5 kHz Channel Spacing, 484.9875 MHz, Digital Voice, Mask D 8K10F1E

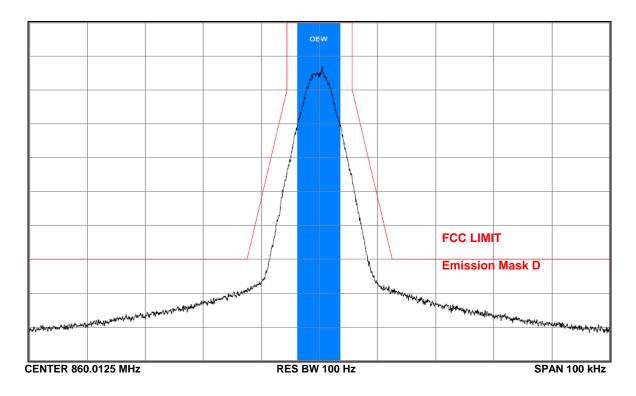


Figure 6E-8: 12.5 kHz Channel Spacing, 860.0125 MHz, Digital Voice, Mask D 8K10F1E

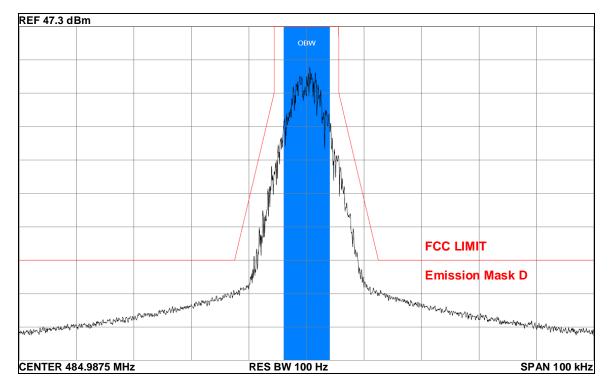


Figure 6E-9: 12.5 kHz Channel Spacing, 484.9875 MHz, Digital TDMA, Mask D 8K10F1W

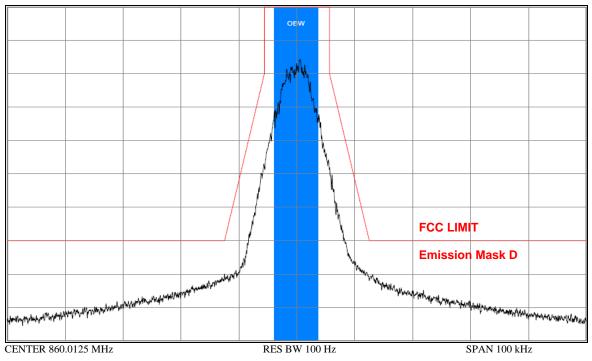


Figure 6E-10: 12.5 kHz Channel Spacing, 860.0125 MHz, Digital TDMA, MASK D 8K10F1W

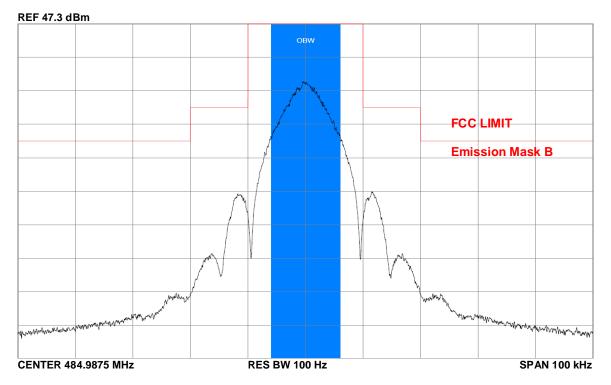


Figure 6E-11: 20 kHz Channel Spacing, 484.9875 MHz, Analog Voice Encryption, 20K0F1E (Not for FCC Review)

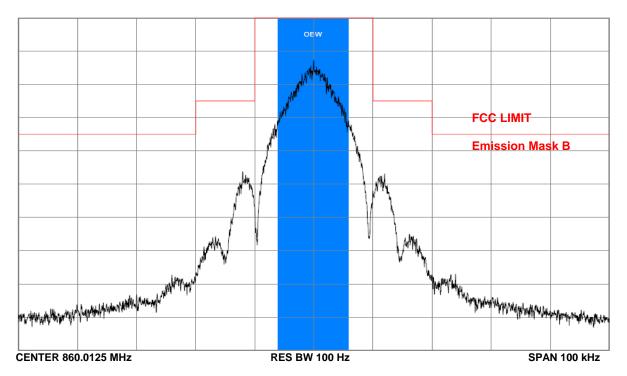


Figure 6E-12: 20 kHz Channel Spacing, 860.0125 MHz, Analog Voice Encryption Mask B 20K0F1E

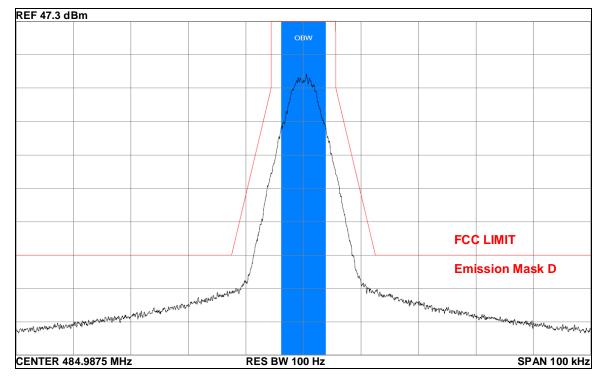


Figure 6E-13: 12.5 kHz Channel Spacing, 484.9875 MHz, Digital Voice Encryption, Mask D 8K10F1E

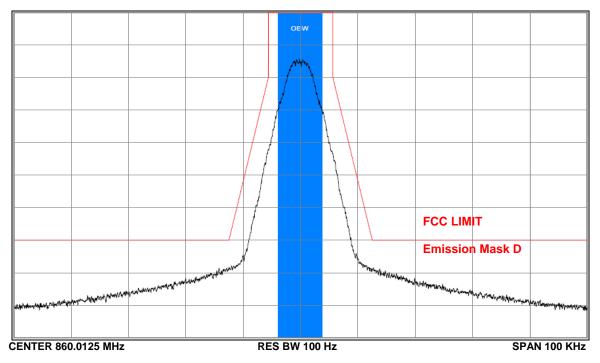


Figure 6E-14: 12.5 kHz Channel Spacing, 860.0125 MHz, Digital Voice Encryption Mask D 8K10F1E

EXHIBIT 6F Adjacent Channel Coupled Power Ratios – Pursuant 47 CFR 90.543 (a) and CFR 90.543 (b)

794.0875 MHz 25.0 kHz Channel Spacing ANALOG Emission Designator 16KDF3E Ref Power Level (dBm) = 46.2							
Measurements Resolution ACP(dBc)							
Offset (KHz)	Bandwidth (KHz)	Bandwidth (Hz)		Lower	Upper	Spec (dBc)	
15.62	6.25	10		-76.19	-76.14	-60	
21.87	6.25	10		-78.87	-79.0S	-60	
37.50	25.00	30		-72.08	-72.06	-65	
62.50	25,00	30		-76.66	-76.43	-65	
87.50	25.00	30		-79.76	-79.81	-65	
150.00	100.00	110		-78.08	-78.21	-65	
250.00	100.00	110		-83.71	-83.66	-65	
350.00	100.00	110		-86.75	-86.69	-65	
≥400KHz-12MHz	30(swept)	3000		<-75		-75	
12M-RX Band	30(swept)	3000		<-75 -75		-75	
in RX Band	30(swept)	3000		<-100 -100			

794.0875 MHz 12.5 kHz Channel Spacing ANALOG Emission Designator 11kDF3E Ref Power Level (dBm) = 46.2							
0.001	Measurements	Resolution		TT	1 <i>6</i> (m)		
Offset (KHz)	Bandwidth (KHz)	2 6	Lower	Upper	Spec (dBc)		
9.37	6.25	10	-68.06	-67.78	-40		
15.62	6.25	10	-75.53	-76.33	-60		
21.87	6.25	10	-79.02	-78.79	-60		
37.50	25.00	30	-71.76	-71.86	-65		
62.50	25.00	30	-76.40	-76.62	-65		
87.50	25.00	30	-79.70	-79.89	-65		
150.00	100.00	110	-78.45	-78.43	-65		
250.00	100.00	110	-83.84	-83.74	-65		
350.00	100.00	110	-86.68	-86.81	-65		
≥400KHz-12MHz	30(swept)	3000	<-	<-75			
12M-RX Band	30(swept)	3000	<-	<-75			
in RX Band	30(swept)	3000	<-100		-100		

_

794.0875 MHz 12.5 kHz Channel Spacing DIGITAL DATA Emission Designator 8K10F1D Ref Power Level (dBm) = 46.2								
	Measurements Resolution ACP(dBc)							
Offset (KHz)	Bandwidth (KHz)	Bandwidth (Hz)	Lower	Upper	Spec (dBc)			
9.37	6.25	10	-42.56	-43.02	-40			
15.62	6.25	10	-76.66	-76.81	-60			
21.87	6.25	10	-78.97	-78.92	-60			
37.50	25.00	30	-71.57	-71.73	-65			
62.50	25.00	30	-76.03	-76.44	-65			
87.50	25.00	30	-79.84	-79.90	-65			
150.00	100.00	110	-78.29	-78.39	-65			
250.00	100.00	110	-83.99	-83.91	-65			
350.00	100.00	110	-86.89	-86.96	-65			
≥400KHz-12MHz	30(swept)	3000	<-`	<-75				
12M-RX Band	30 (swept)	3000	<-	<-75				
in RX Band	30(swept)	3000	<-1	00	-100			

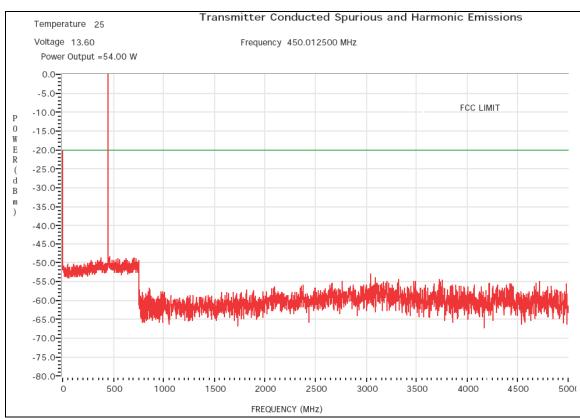
794.0875 MHz 12.5 kHz Channel Spacing DIGITAL VOICE Emission Designator 8K10F1E Ref Power Level (dBm) = 46.2								
	Measurements Resolution ACP(dBc)							
Offset (KHz)	Bandwidth (KHz)	Bandwidth (Hz)	Lov	vei	Upper	Spec (dBc)		
9.37	6.25	10	-42	.25	-42.70	-40		
15.62	6.25	10	-76	.61	-76.41	-60		
21.87	6.25	10	-78	.78	-78.92	-60		
37.50	25.00	30	-74	.07	-73.85	-65		
62.50	25.00	30	-76	.52	-76.32	-65		
87.50	25.00	30	-79	.57	-79.83	-65		
150.00	100.00	110	-77	.85	-77.69	-65		
250.00	100.00	110	-83	.44	-83.29	-65		
350.00	100.00	110	-86	.41	-86.37	-65		
≿400KHz-12MHz	30(swept)	3000		<-75		-75		
12M-RX Band	30 (swept)	3000		<-75		-75		
in RX Band	30(swept)	3000		<-100 -100		-100		

794.08	794.0875 MHz 12.5 kHz Channel Spacing DIGITAL VOICE ENCRYPTION Emission Designator 8K10F1E								
	Ref Power Level (dBm) = 46.2								
	Measurements Resolution ACP(dBc)								
Offset (KHz)	Bandwidth (KHz)	Bandwidth (Hz)		Lower	Upper	Spec (dBc)			
9.37	6.25	10		-41.52	-41.02	-40			
15.62	6.25	10		-76.56	-76.28	-60			
21.87	6.25	10		-78.62	-78.64	-60			
37.50	25.00	30		-72.15	-72.45	-65			
62.50	25.00	30		-76.66	-76.93	-65			
87.50	25.00	30		-79.80	-79.98	-65			
150.00	100.00	110		-78.34	-78.25	-65			
250.00	100.00	110		-83.41	-83.27	-65			
350.00	100.00	110		-86.36	-86.23	-65			
≥400KHz-12MHz	30 (swept)	3000		<-75		-75			
12M-RX Band	30 (<i>s</i> wept)	3000		<-75 -75		-75			
in RX Band	30 (swept)	3000		<-]	.00	-100			

794.0875 MHz 12.5 kHz Channel Spacing DIGITAL TDMA Emission Designator 8K10F1W Ref Power Level (dBm) = 46.2								
	Measurements Resolution ACP (dBc)							
Offset (kHz)	Bandwidth (kHz)	Bandwidth (Hz)	Lower	Upper	Spec (dBc)			
9.375	6.250	100	-42.36	-42.84	-40			
15.625	6.250	100	-69.90	-70.16	-60			
21.875	6.250	100	-74.54	-75.81	-60			
37.500	25.000	300	-71.74	-71.13	-65			
62.500	25.000	300	-76.87	-76.38	-65			
87.500	25.000	300	-79.93	-79.81	-65			
150.000	100.000	1100	-76.64	-76.85	-65			
250.000	100.000	1100	-82.38	-81.71	-65			
350.000	100.000	1100	-84.24	-84.25	-65			
>400kHz-12MHz	30 (swept)	30000	<	<-75 -7				
12M-RX Band	30 (swept)	30000	<	<-75				
in RX Band	30 (swept)	30000	<-	<-100 -10				

EXHIBIT 6G Conducted Spurious Emissions - Pursuant 47 CFR 2.1051 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 6G-1: 54W Harmonic of Carrier 450.0125 MHz

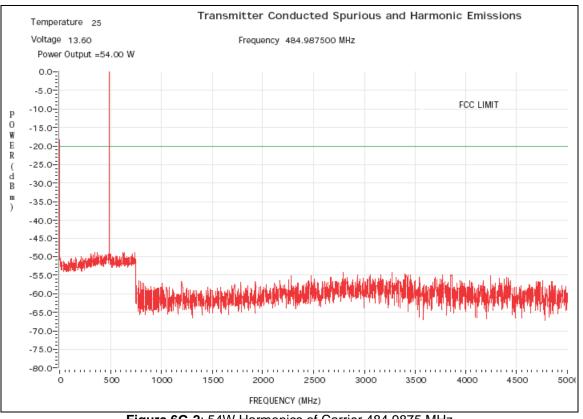
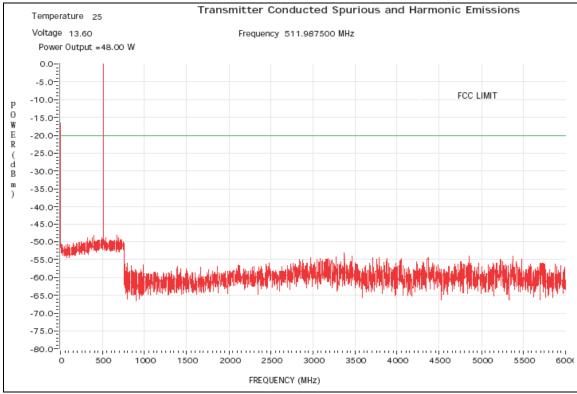
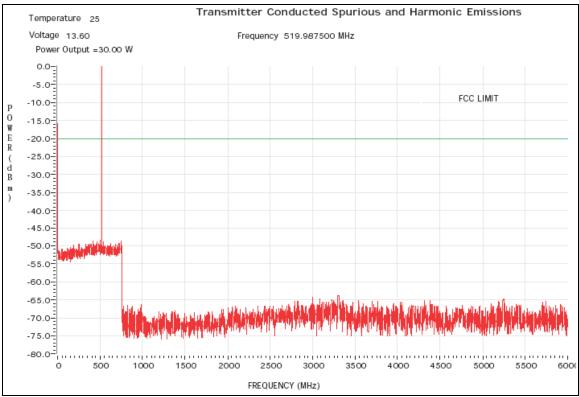


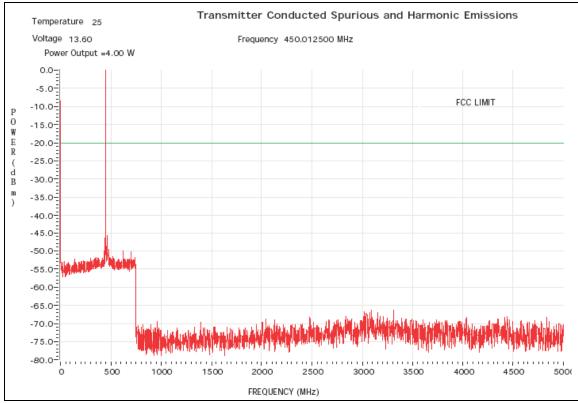
Figure 6G-2: 54W Harmonics of Carrier 484.9875 MHz



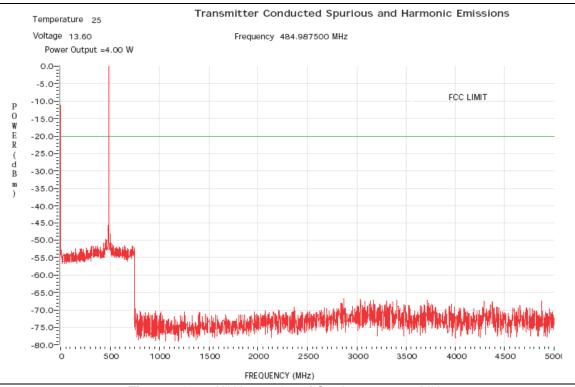














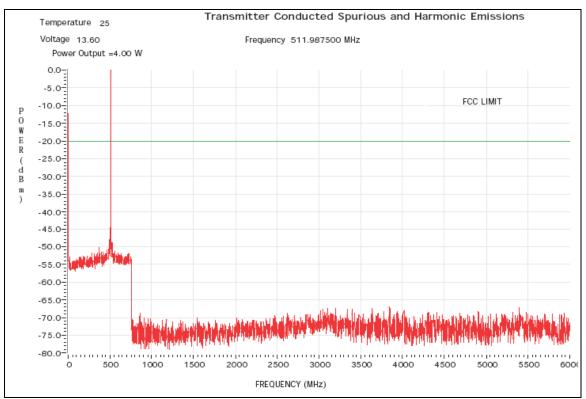


Figure 6G-7: 4W Harmonics of Carrier 511.9875 MHz

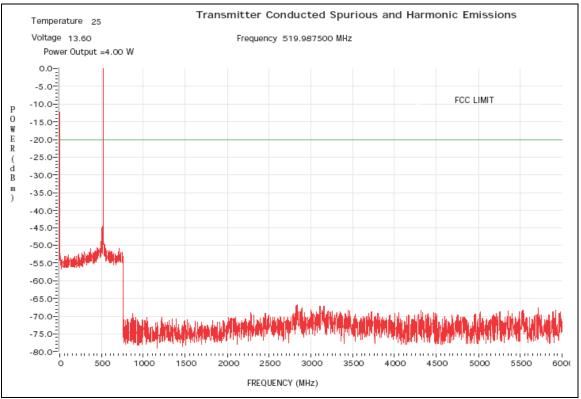


Figure 6G-8: 4W Harmonics of Carrier 519.9875 MHz

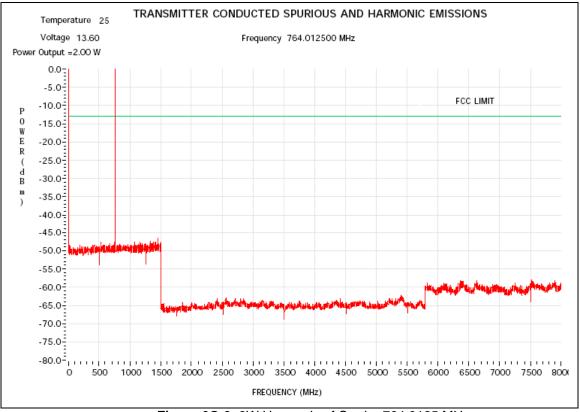


Figure 6G-9: 2W Harmonic of Carrier 764.0125 MHz

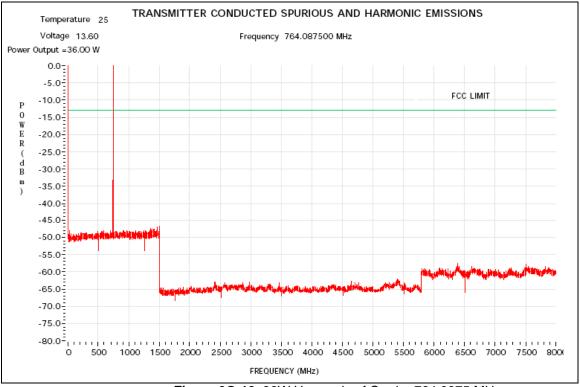
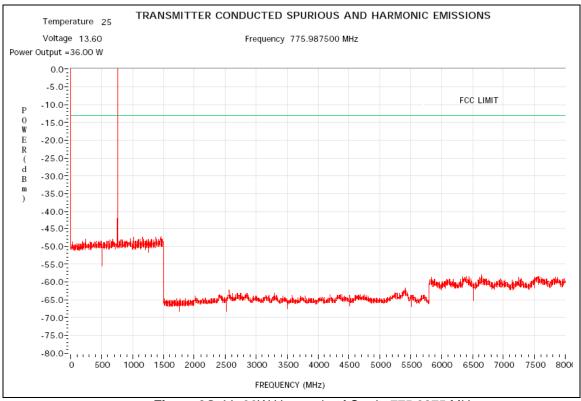
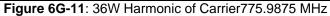
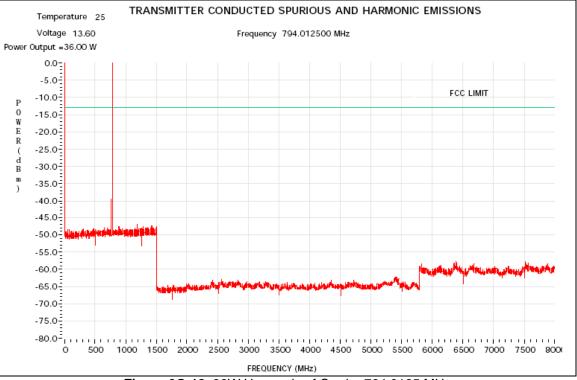


Figure 6G-10: 36W Harmonic of Carrier 764.0875 MHz









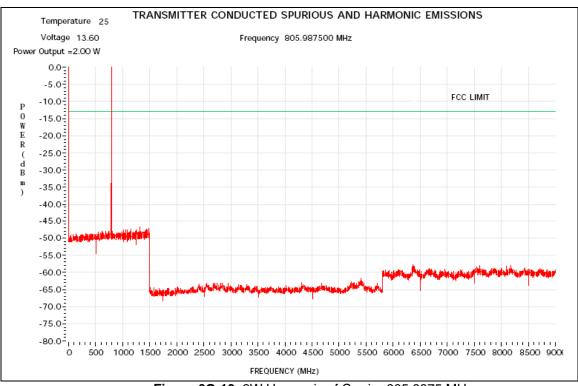
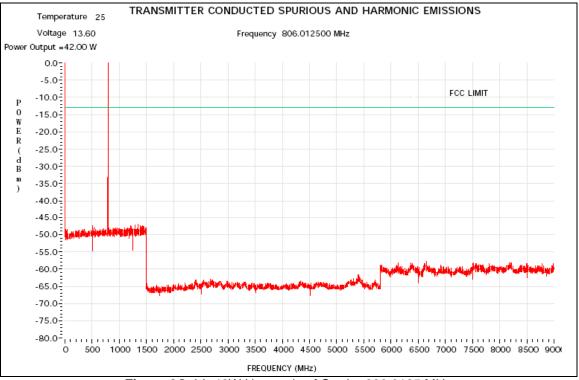


Figure 6G-13: 2W Harmonic of Carrier 805.9875 MHz





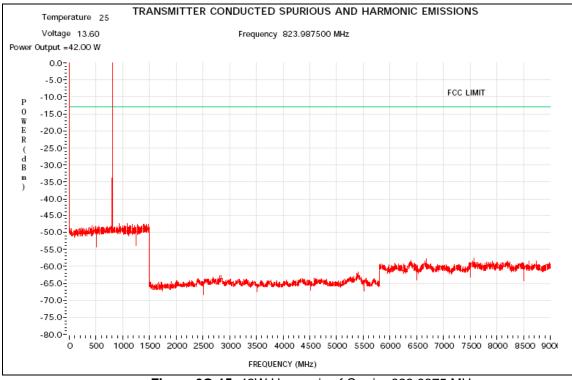
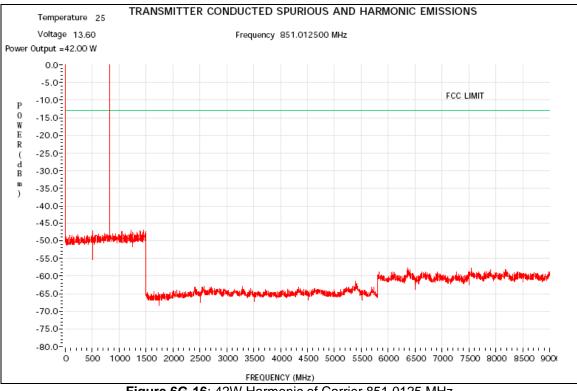
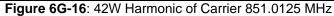


Figure 6G-15: 42W Harmonic of Carrier 823.9875 MHz





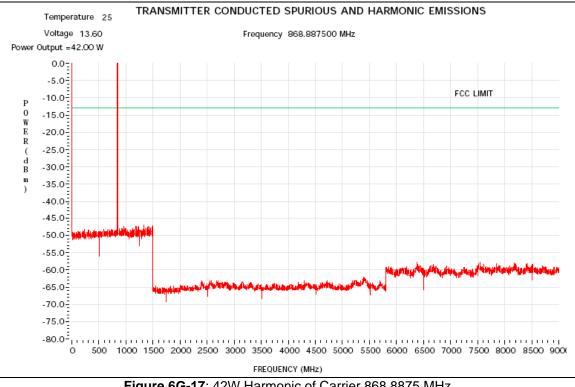
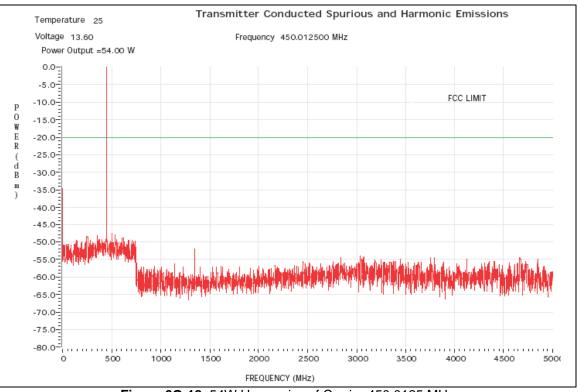
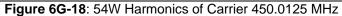


Figure 6G-17: 42W Harmonic of Carrier 868.8875 MHz



DIGITAL MODE



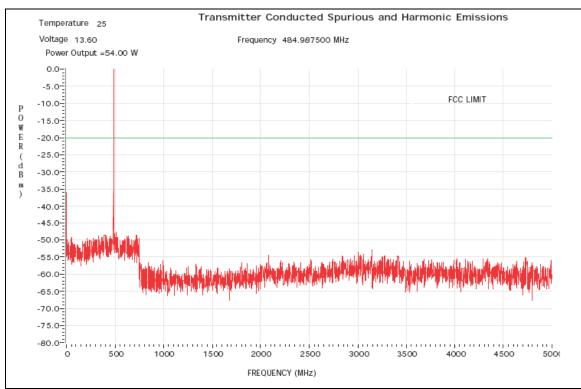


Figure 6G-19: 54W Harmonics of Carrier 484.9875 MHz

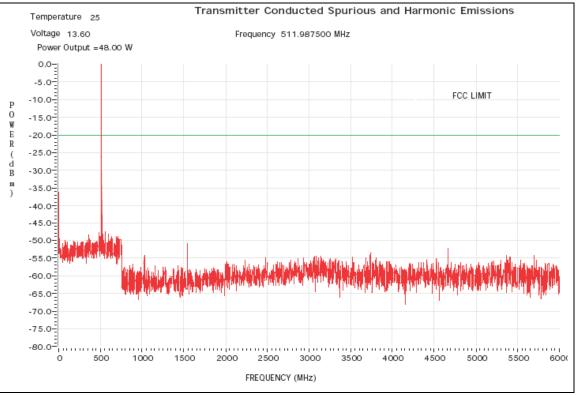


Figure 6G-20: 48W Harmonics of Carrier 511.9875 MHz

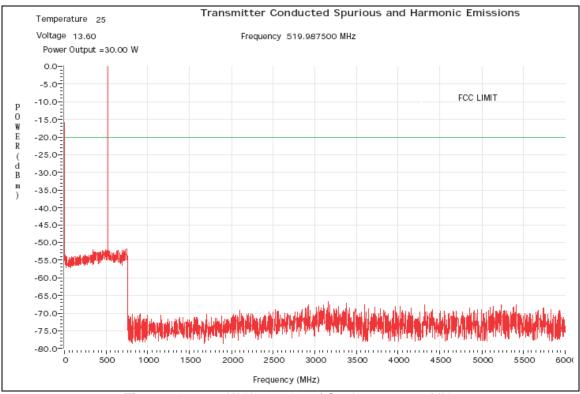
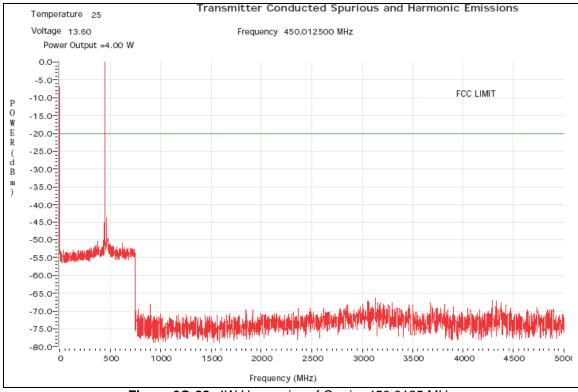


Figure 6G-21: 30W Harmonics of Carrier 519.9875 MHz





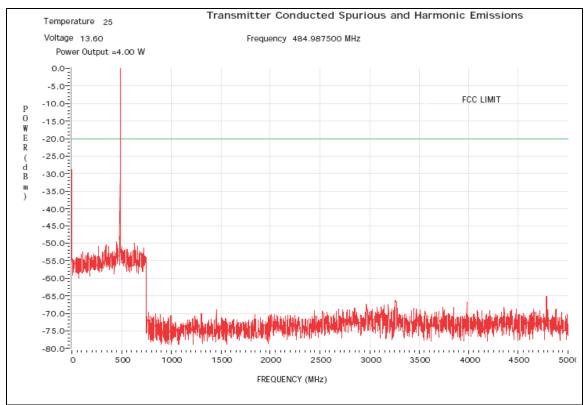
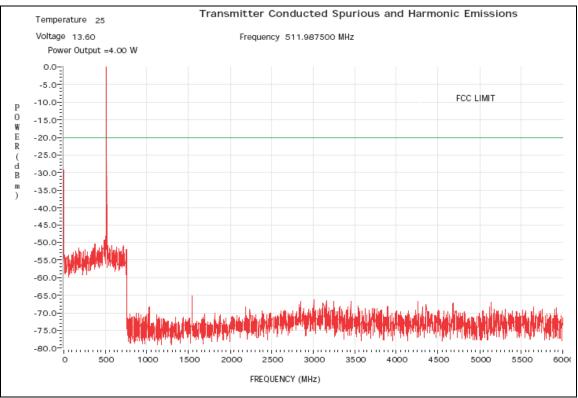
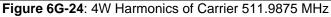


Figure 6G-23: 4W Harmonics of Carrier 484.9875 MHz





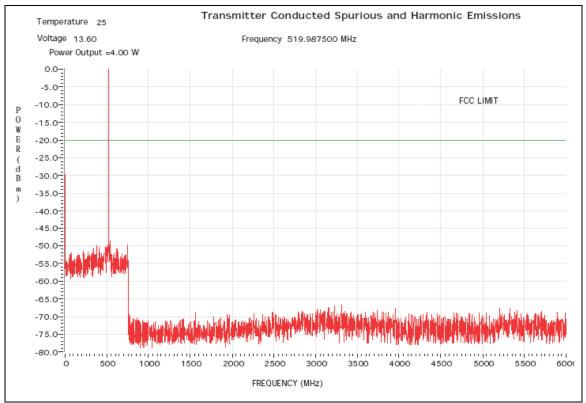


Figure 6G-25: 4W Harmonics of Carrier 519.9875 MHz

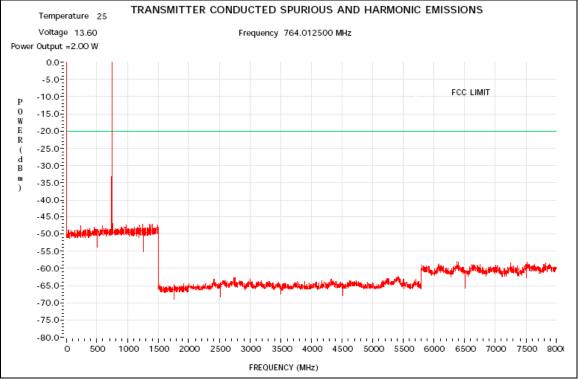


Figure 6G-26: 2W Harmonic of Carrier 764.0125 MHz

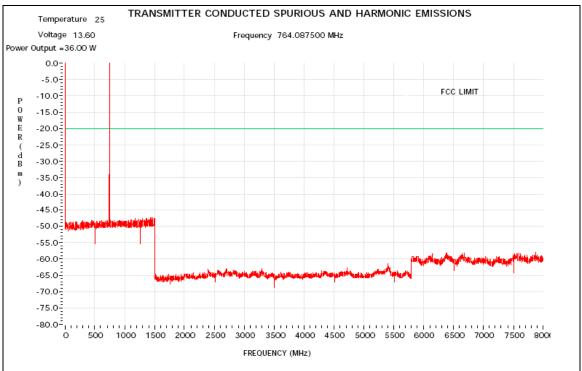
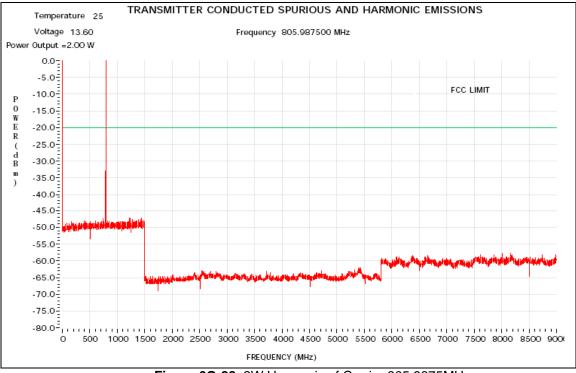


Figure 6G-27: 36W Harmonic of Carrier 764.0875 MHz





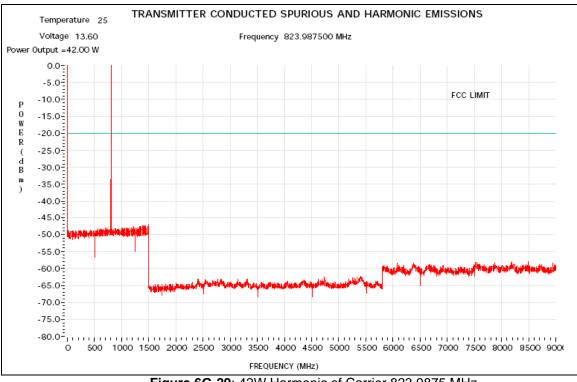


Figure 6G-29: 42W Harmonic of Carrier 823.9875 MHz

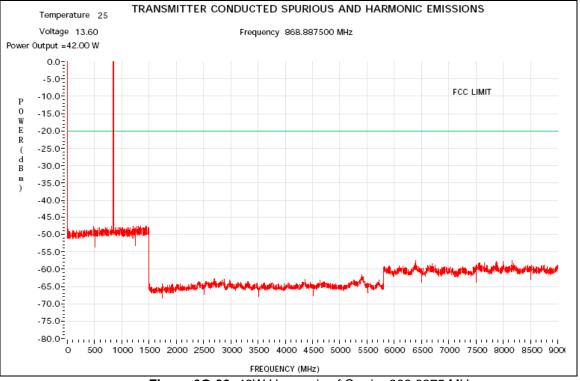
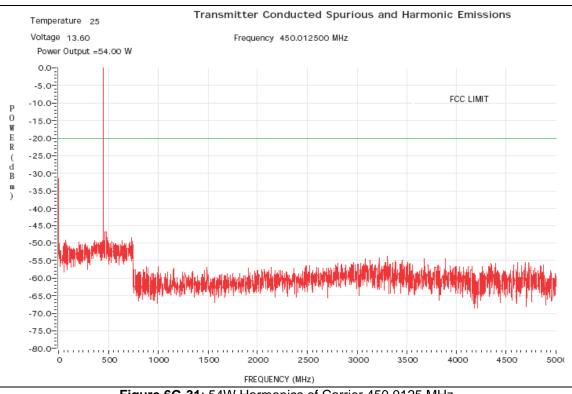
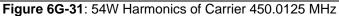
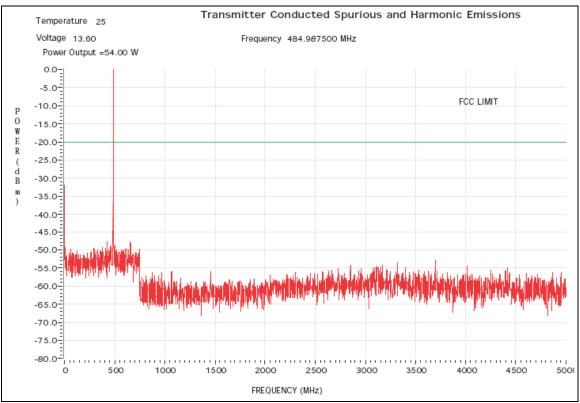


Figure 6G-30: 42W Harmonic of Carrier 868.8875 MHz

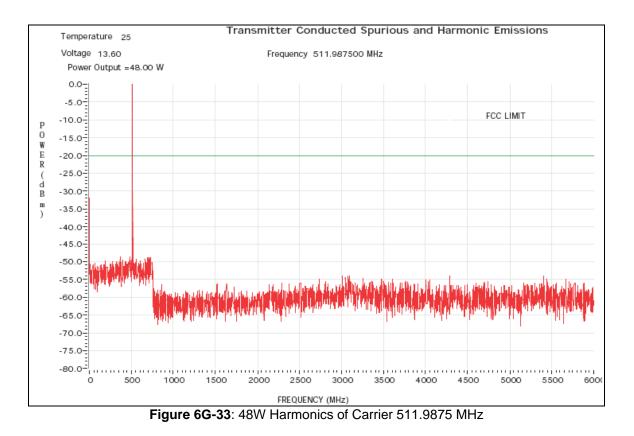


TDMA- F2









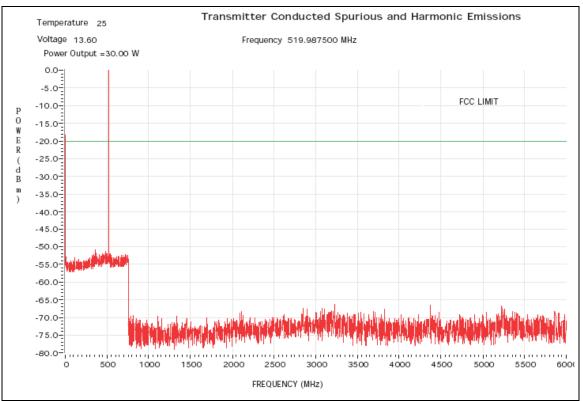
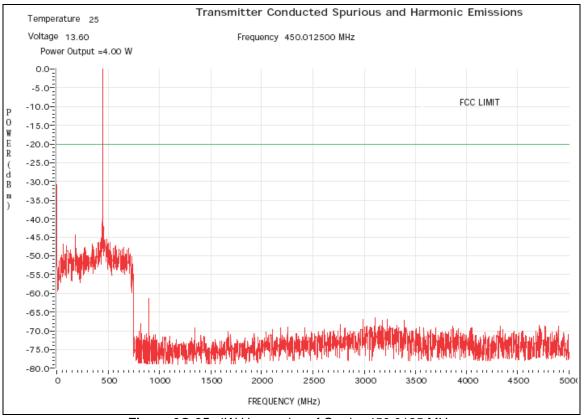


Figure 6G-34: 30W Harmonics of Carrier 519.9875 MHz





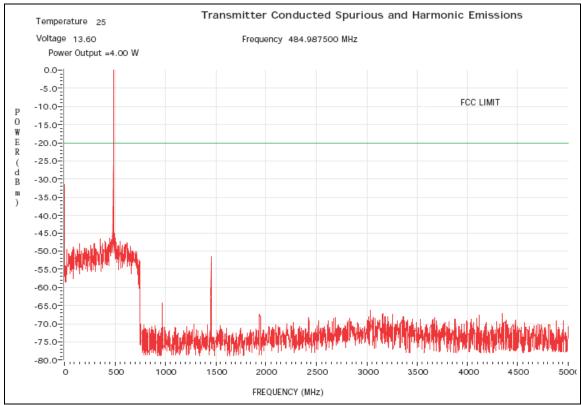


Figure 6G-36: 4W Harmonics of Carrier 484.9875 MHz

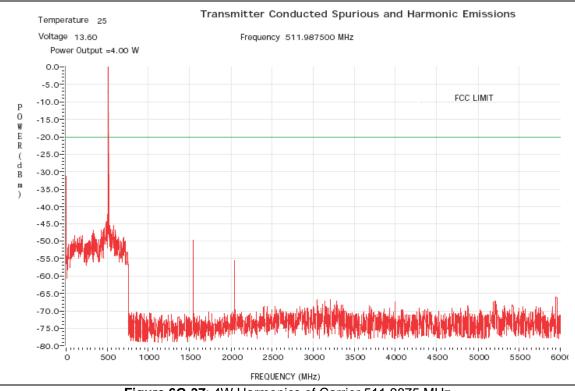


Figure 6G-37: 4W Harmonics of Carrier 511.9875 MHz

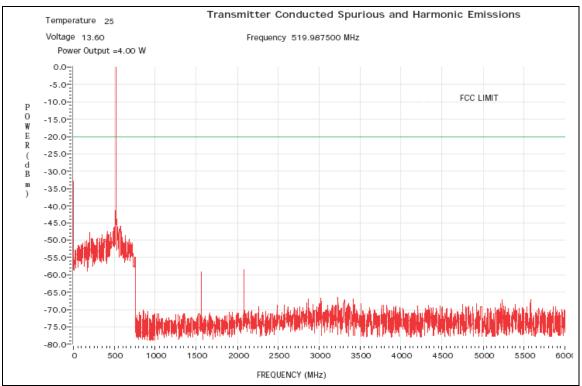
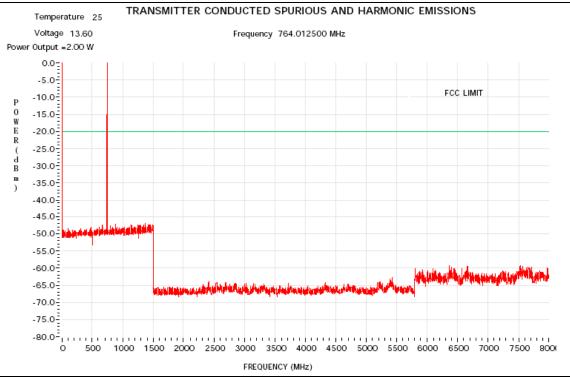
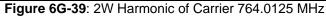


Figure 6G-38: 4W Harmonics of Carrier 519.9875 MHz





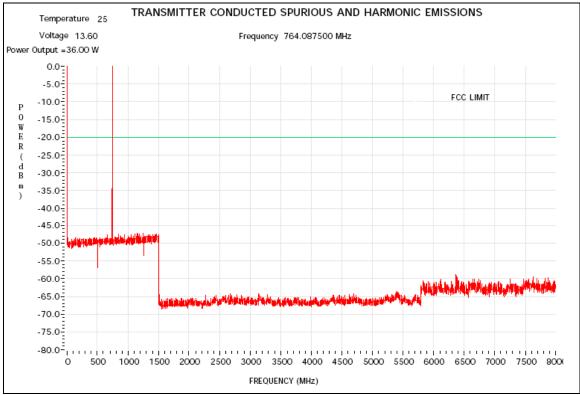
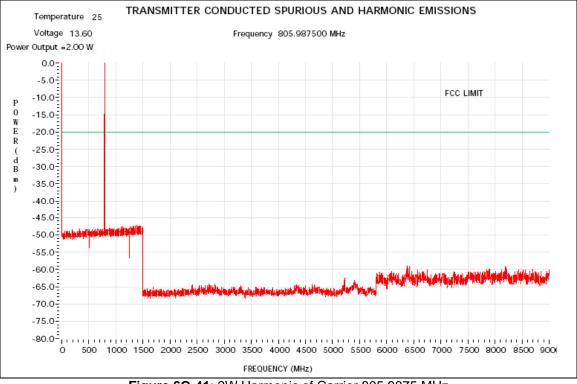
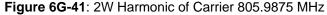


Figure 6G-40: 36W Harmonic of Carrier 764.0875 MHz





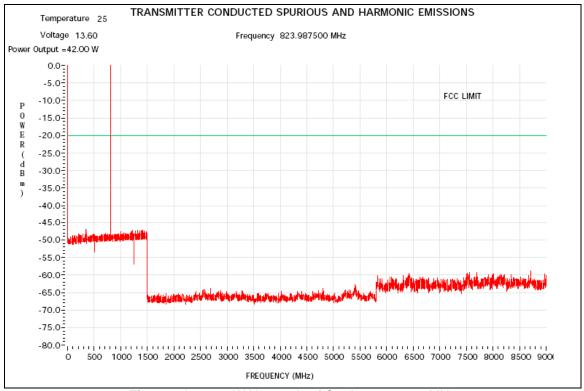


Figure 6G-42: 42W Harmonic of Carrier 823.9875 MHz

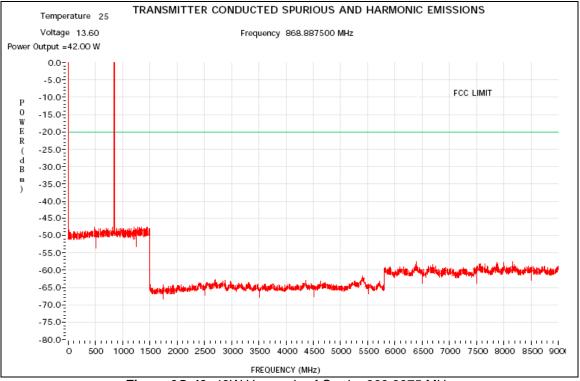


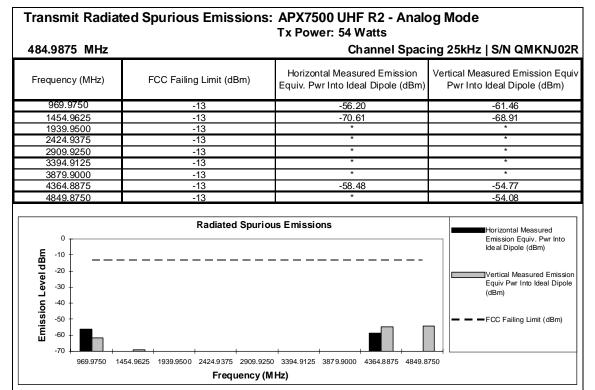
Figure 6G-43: 43W Harmonic of Carrier 868.8875 MHz

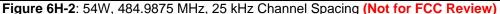
EXHIBIT 6H Radiated Spurious Emissions - Pursuant 47 CFR 2.1051 and 2.1033(c)(13)

<u>UHF Range 2</u>

Tran	smit	Radia	ted Sp	urious	Emissi		APX75			Analog	gN	Node
45	450.0125 MHz						Tx Power: 54 Watts Channel Spacing 25kHz S/N QMKNJ02R					
Fre	equenc	cy (MHz)	F	FCC Failin	g Limit (dł	3m)			ured Emis al Dipole (ical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
	900.0	250		-	-13			-70.9	5			-73.61
	1350.	0375		-	-13			-71.0	ß			-65.49
	1800.	0500		-13			*				*	
	2250.	0625		-13			*				*	
	2700.	0750		-	-13			*				*
	3150.			-13			*					*
	3600.1000			-13			*					*
	4050.1125			-13			*				*	
	4500.	1250		-	-13			*				×
	0 -				Radiated	d Spuriou	s Emissio	ons			_	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole
Bm	-10 -											(dBm)
Emission Level dBm	-20 - -30 -	-										Vertical Measured Emission Equiv Pwr Into Ideal Dipole
on Le	-30 -	-										(dBm)
nissi	-50 -	-										FCC Failing Limit (dBm)
Ш	-60 - -70 -	_			1		1					
	-70 -	900.0250	1350.0375	1800.0500		2700.0750 uency (MI		3600.1000	4050.1125	4500.1250	0	

Figure 6H-1: 54W, 450.0125 MHz, 25 kHz Channel Spacing (Not for FCC Review)





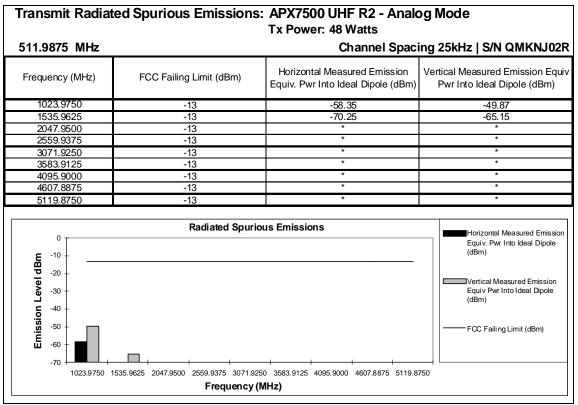
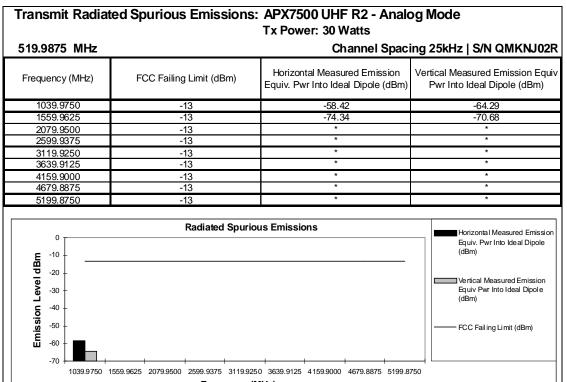


Figure 6H-3: 48W, 511.9875 MHz, 25 kHz Channel Spacing (Not for FCC Review)



Frequency (MHz)

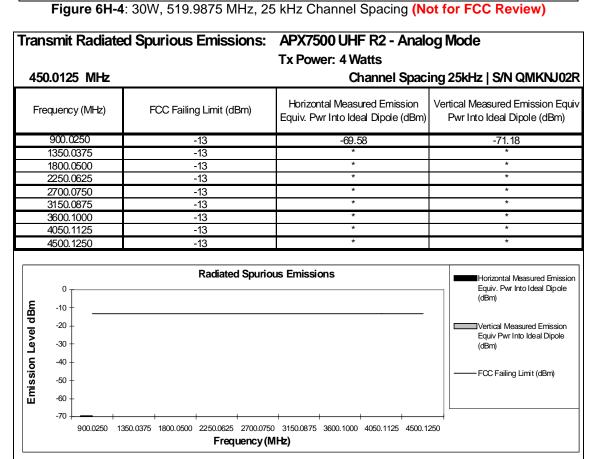
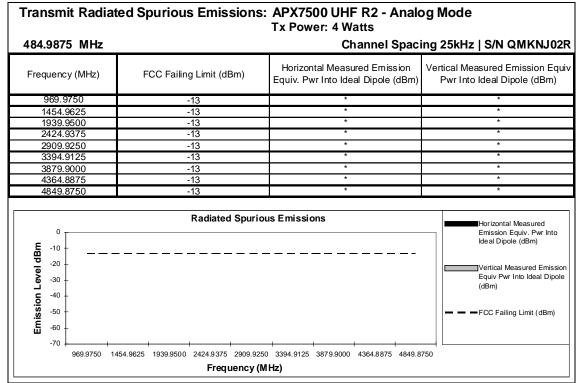
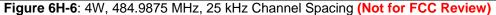


Figure 6H-5: 4W, 450.0125 MHz, 25 kHz Channel Spacing (Not for FCC Review)





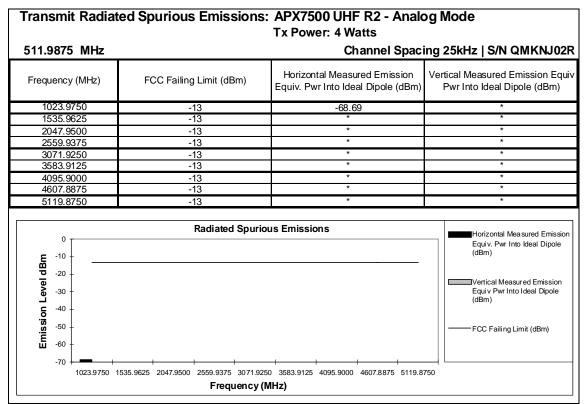


Figure 6H-7: 4W, 511.9875 MHz, 25 kHz Channel Spacing (Not for FCC Review)

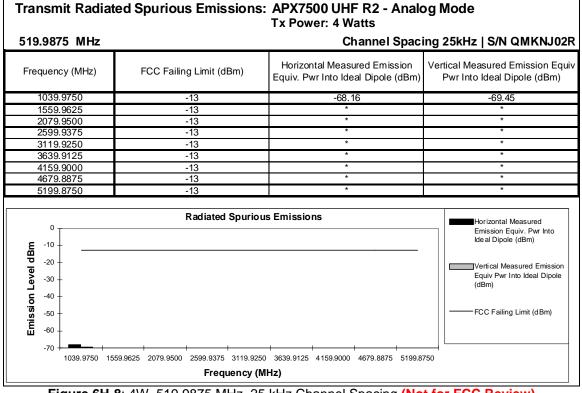


Figure 6H-8: 4W, 519.9875 MHz, 25 kHz Channel Spacing (Not for FCC Review)

* Indicates the spurious emission was less than -70dBm or 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.

<u>7/800</u>

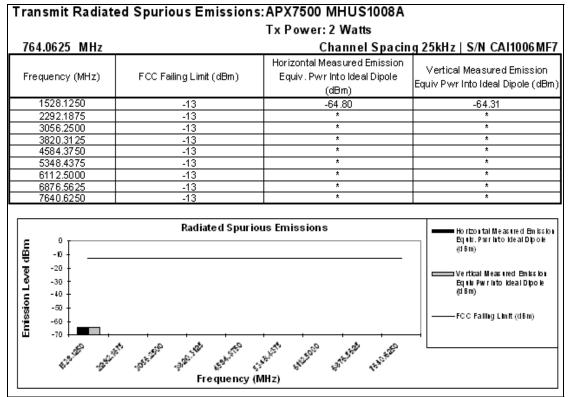
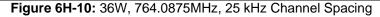
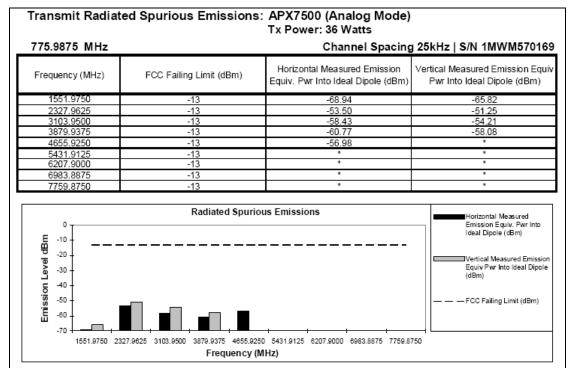


Figure 6H-9: 2W, 764.0625 MHz, 25 kHz Channel Spacing

	nsmit Radia 64.0875 MHz		APX7500 (Analog Mode) Tx Power: 36 Watts Channel Spacing 25kHz S/N 1MWM57016		
	requency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv	
	1528.1750 2292.2625	-13 -13	-65.79 -56.91	-63.00 -57.01	
	3056.3500 3820.4375 4584.5250	-13 -13 -13	-56.19 -60.79 -59.77	-53.94 -60.31 *	
	4304.5250 -13 5348.6125 -13 6112.7000 -13		*	÷ ÷	
	6876.7875 7640.8750	-13 -13	*	*	
el dBm	0 -10 -20	Radiated Spurio	ous Emissions	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm) Vertical Measured Emission	
Emission Level dBm	-30 - -40 - -50 - -60 -			Equiv Pwr Into Ideal Dipole (dBm) ——— FCC Failing Limit (dBm)	
	-70	2292.2625 3056.3500 3820.4375 4584.525 Frequency (1	1 1 1 10 5348.6125 6112.7000 6676.7875 7640.8 MHz)	750	







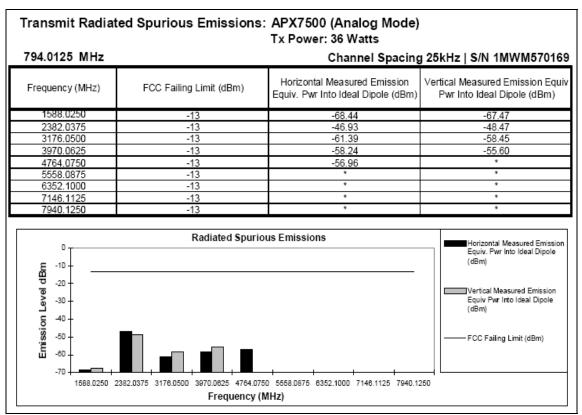
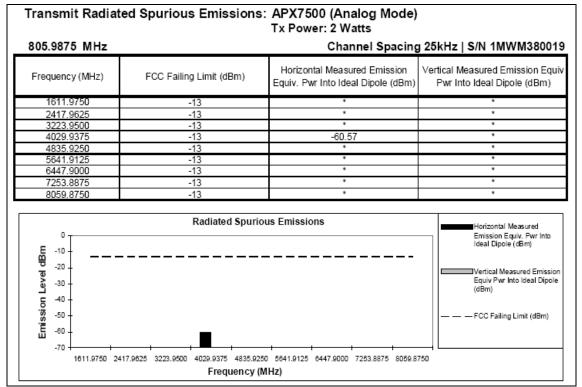
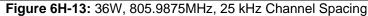


Figure 6H-12: 36W, 794.0125MHz, 25 kHz Channel Spacing





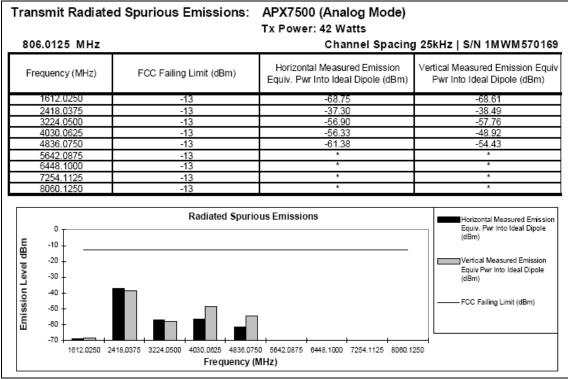
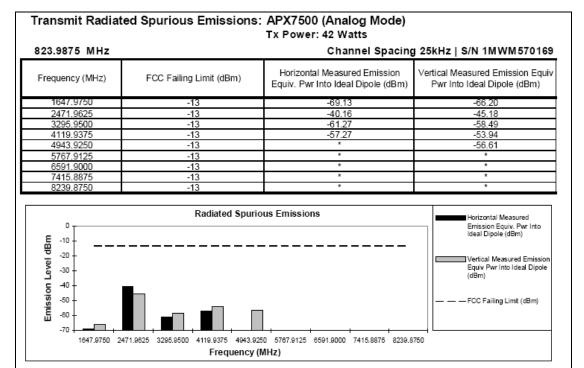
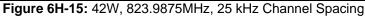


Figure 6H-14: 42W, 806.0125MHz, 25 kHz Channel Spacing





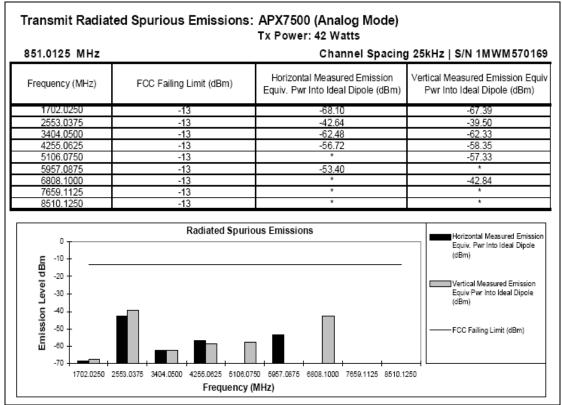


Figure 6H-16: 42W, 851.0125MHz, 25 kHz Channel Spacing

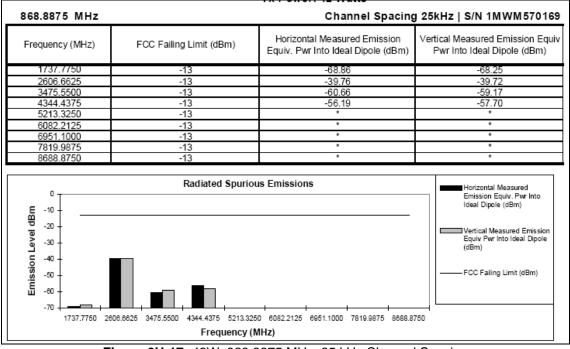


Figure 6H-17: 42W, 868.8875 MHz, 25 kHz Channel Spacing

* Indicates the spurious emission was less than -70dBm or 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.

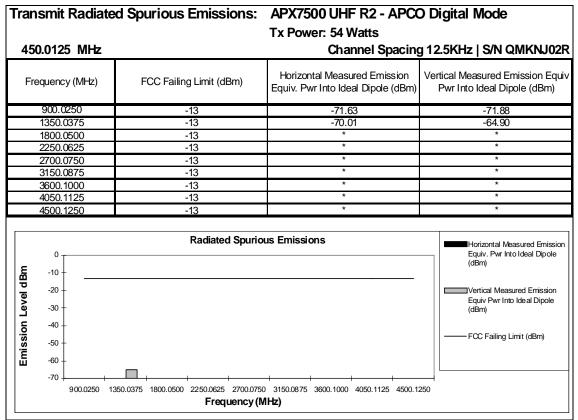
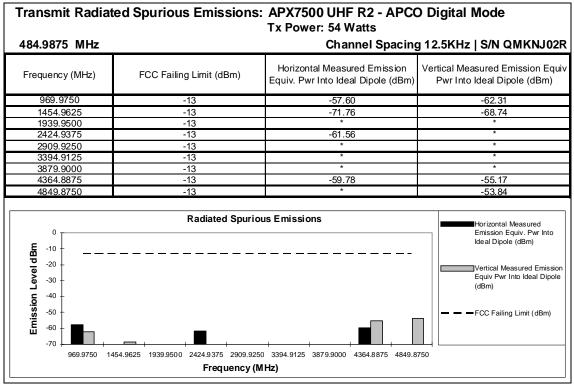
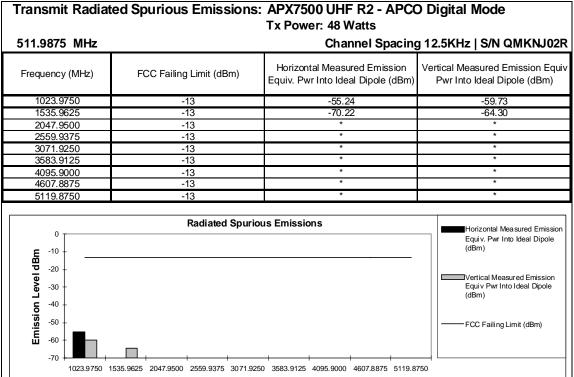


Figure 6H-18: 54W, 450.0125 MHz, 12.5 kHz Channel Spacing











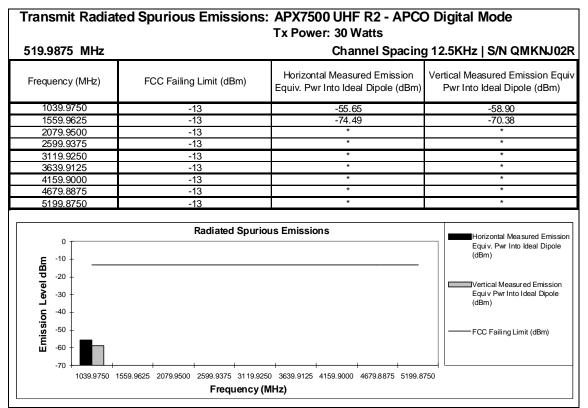


Figure 6H-21: 30W, 519.9875 MHz, 12.5 kHz Channel Spacing

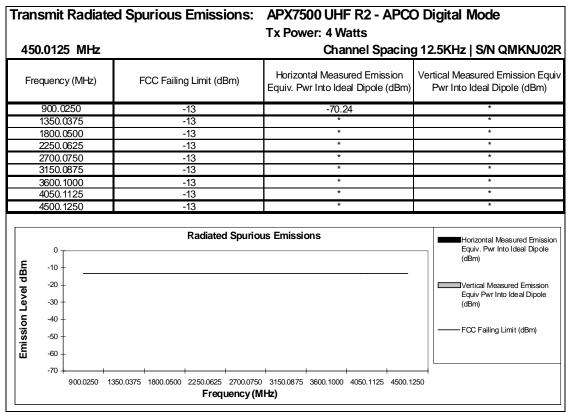


Figure 6H-22: 4W, 450.0125 MHz, 12.5 kHz Channel Spacing

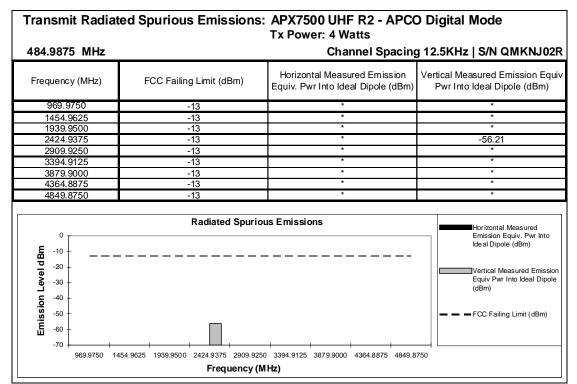
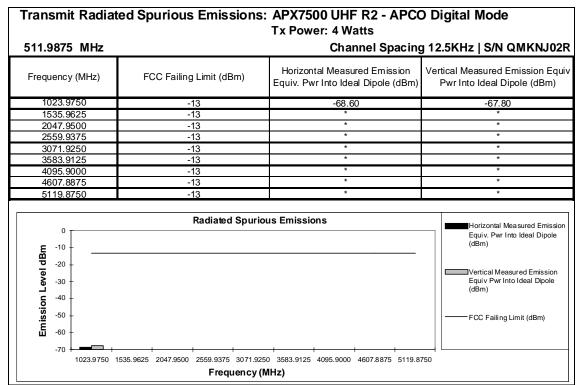


Figure 6H-23: 4W, 484.9875 MHz, 12.5 kHz Channel Spacing





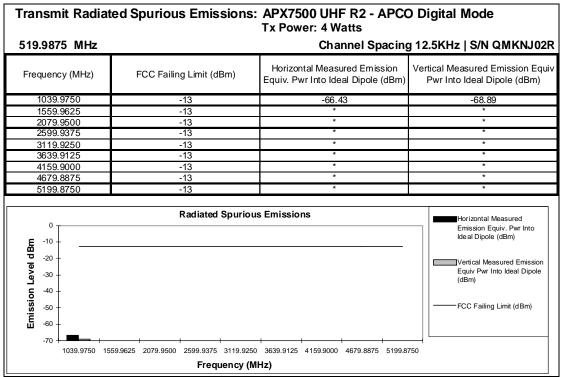
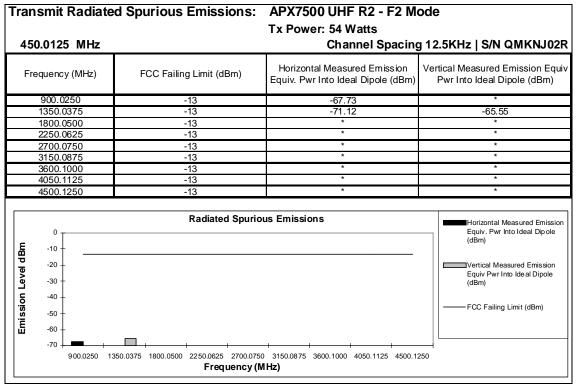


Figure 6H-25: 4W, 519.9875 MHz, 12.5 kHz Channel Spacing

* Indicates the spurious emission was less than -70dBm or 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 decument 6 SHEET 59 OF 75



Transmit Radiate	ed Spurious Emissions	s: APX7500 UHF R2 - F2 M Tx Power: 54 Watts	ode
484.9875 MHz		Channel Spacing	g 12.5KHz S/N QMKNJ02R
Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
969.9750	-13	-54.94	-60.33
1454.9625	-13	-68.91	-68.04
1939.9500	-13	*	*
2424.9375	-13	*	*
2909.9250	-13	*	*
3394.9125	-13	*	*
3879.9000	-13	*	*
4364.8875	-13	*	*
4849.8750	-13	*	*
0 -10 -20 -30 -30 -40 -50 -50 -50 -70	Radiated Spuri	ous Emissions	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm) Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm) — — FCC Failing Limit (dBm)
969.9750 145	4.9625 1939.9500 2424.9375 2909.92	250 3394.9125 3879.9000 4364.8875 4849.8	3750
	Frequency (MHz)	

EXHIBIT 6 SHEET 60 OF 75

Figure 6H-27: 54W, 484.9875 MHz, 12.5 kHz Channel Spacing

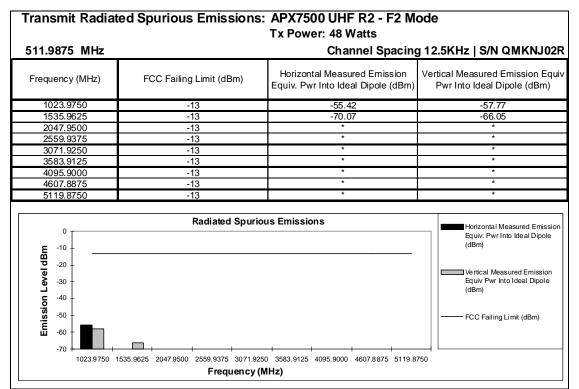
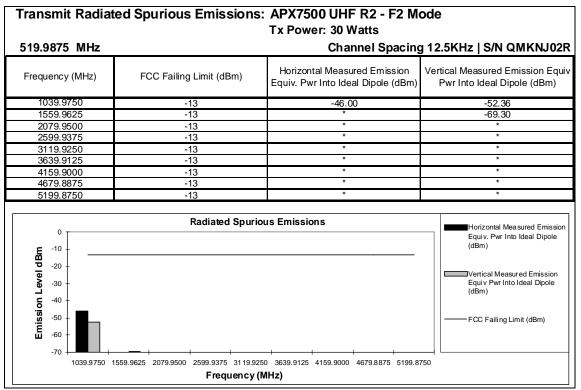


Figure 6H-28: 48W, 511.9875 MHz, 12.5 kHz Channel Spacing





	omit Radi	-	urious	Emiss		APX75 Tx Pow	er: 4 W	atts	_		5KHz S/N QMKNJ021
Freq	uency (MHz) F	FCC Failin	g Limit (dl	3m)			ured Emis al Dipole			cal Measured Emission Equ wr Into Ideal Dipole (dBm)
ç	900.0250			-13			-70.2	3			-72.98
1	350.0375			-13			*				*
1	800.0500			-13			*				*
2	250.0625			-13			*				*
2	700.0750		-13			*					*
3	150.0875			-13		*					*
3	600.1000			-13			*				*
4	4050.1125		-13				*				*
4	500.1250			-13			*				*
Emission Level dBm	0 -10 - -20 - -30 - -40 - -50 - -60 - -70			Radiated	d Spuriou	s Emissio	ons				Horizontal Measured Emissio Equiv. Pwr Into Ideal Dipole (dBm) Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm) FCC Failing Limit (dBm)
	900.025	0 1350.0375	1800.0500	2250.0625	2700.0750	3150.0875	3600.1000	4050.1125	4500.125	0	
				Freq	uency (MI	Hz)					

Figure 6H-30: 4W, 450.0125 MHz, 12.5 kHz Channel Spacing

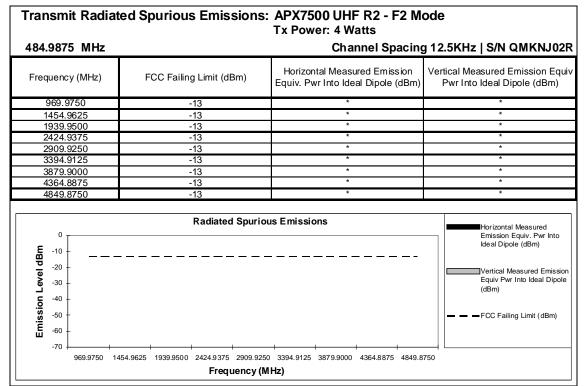
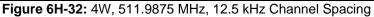


Figure 6H-31: 4W, 484.9875 MHz, 12.5 kHz Channel Spacing

		Tx Power: 4 Watts	
511.9875 MHz		Channel Spacin	g 12.5KHz S/N QMKNJ02
Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equ Pwr Into Ideal Dipole (dBm)
1023.9750	-13	-63.07	-62.92
1535.9625	-13	*	*
2047.9500	-13	*	*
2559.9375	-13	*	*
3071.9250	-13	*	*
3583.9125	-13	*	*
4095.9000	-13	*	*
4607.8875	-13	*	*
5119.8750	-13	*	*
e -10	Radiated Spuri	ious Emissions	Horizontal Measured Emissic Equiv. Pwr Into Ideal Dipole (dBm)
Emission Level dBm -2030 - -2040 - -2020 -2020 -20			Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
-50 - -50 - -60 -			FCC Failing Limit (dBm)
-70		250 3583.9125 4095.9000 4607.8875 5119.6	



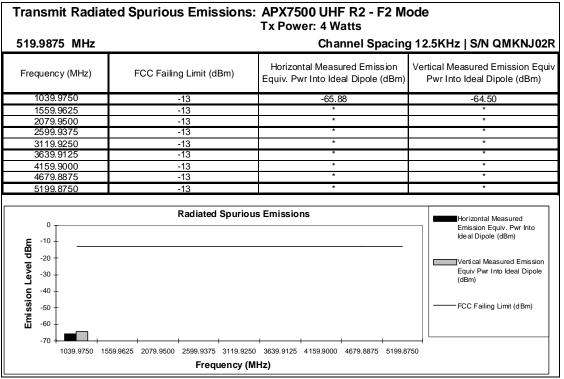


Figure 6H-33: 4W, 519.9875 MHz, 12.5 kHz Channel Spacing (Not for FCC Review)

* Indicates the spurious emission was less than -70dBm or 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.

764.08	75 MHz		Tx Power: 36 Watts Channel Spacing	12.5kHz S/N 1MWM57016
Frequer	ncy (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBr	
1528	3.1750	-20	-70.25	-64.11
	2.2625	-20	-60.91	-61.69
	6.3500	-20	-56.93	-52.34
).4375	-20	*	*
	1.5250	-20	*	*
	3.6125	-20	*	*
	2.7000	-20	*	*
	5.7875 0.8750	-20 -20	*	*
Emission Level dBm 08-05-05-00-00-00-00-00-00-00-00-00-00-00-		Radiated S	purious Emissions	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm) Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm) FCC Failing Limit (dBm)
逝 -80 -70			84.5250 5348.6125 6112.7000 6876.7875 764 ICY (MHZ)	0.8750

Figure 6H-34: 36W, 764.0875MHz, 12.5 kHz Channel Spacing

APPLICANT: MOTOROLA SOLUTIONS INC.

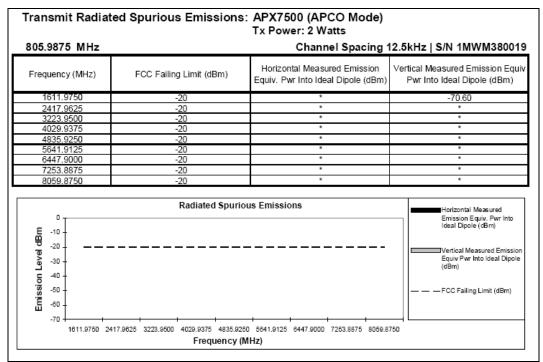


Figure 6H-35: 2W, 805.9875 MHz

ransmit Radiate 823.9875 MHz	ed Spurious Emissions:	APX7500 (APCO Mode) Tx Power: 42 Watts Channel Spacing 1	12.5kHz S/N 1MWM570169
Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1647.9750	-20	-70.10	-66.67
2471.9625	-20	-34.03	-34.32
3295.9500	-20	-60.45	-55.98
4119.9375	-20	-54.35	-47.84
4943.9250	-20	*	*
5767.9125	-20	*	*
6591.9000	-20	*	*
7415.8875 8239.8750	-20 -20	*	*
0	Radiated Spurio		Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm) Uertical Measured Emission Equiv Pwr Into Ideal Dipole
-10			(dBm) FCC Failing Limit (dBm)
1647.9750 2	471.9625 3295.9500 4119.9375 4943.925 Frequency (N	0 5767.9125 6591.9000 7415.8875 8239.83 //Hz)	750

Figure 6H-36: 42W, 823.9875 MHz

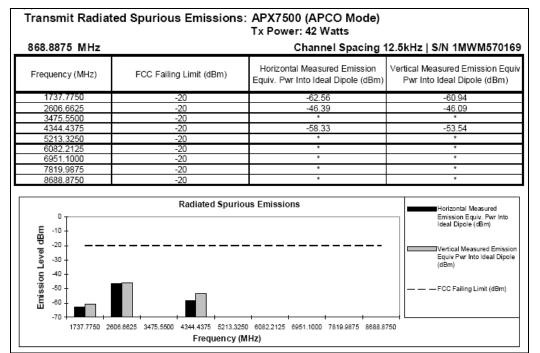
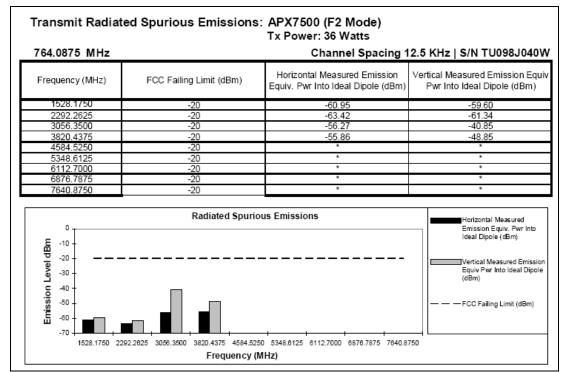


Figure 6H-37: 42W, 868.8875 MHz

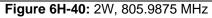
Transmit Rac 764.0125 MI	liated Spurious Emissions:	APX7500 (F2 Mode) Tx Power: 2 Watts Channel Spacing 12.5 KHz S/N TU098J040W			
Frequency (MH		Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)		
1528.0250 2292.0375 3056.0500 3820.0625 4584.0750 5348.0875 6112.1000 6876.1125 7640.1250	-20 -20 -20 -20 -20 -20 -20 -20 -20 -20	-61.02 * -55.70 -52.82 * * * * * *	-57.41 -61.79 -42.44 * * * * * *		
0 -10 -20 -30 -30 -40 -50 -70 -70 -70 -1528.0	Radiated Spurio	50 5348.0875 6112.1000 6876.1125 7640.1	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm) Uvertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm) 		







805.9875 MHz		Channel Spacing 1	2.5 KHz S/N TU098J040
Frequency (MHz)	FCC Failing Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equ Pwr Into Ideal Dipole (dBm)
1611.9750	-20	-61.42	-61.13
2417.9625	-20	×	*
3223.9500	-20	-60.01	-52.01
4029.9375	-20	*	*
4835.9250	-20	*	*
5641.9125	-20	*	*
6447.9000	-20	*	*
7253.8875	-20	*	*
8059.8750	-20	*	*
Contracting the second damage of the second damage	Radiated Spuri	ous Emissions	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm) Vertical Measured Emissi Equiv Pwr Into Ideal Dipol (dBm) — — FCC Failing Limit (dBm)



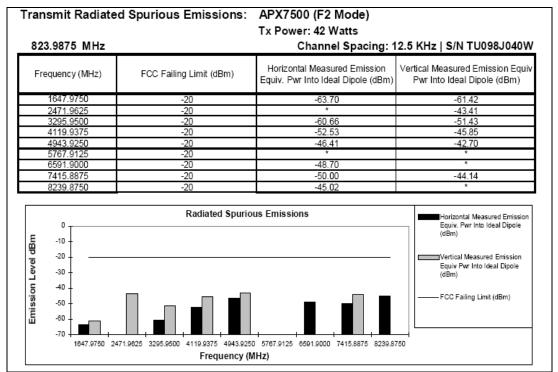
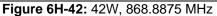


Figure 6H-41: 42W, 823.9875 MHz

Frequency (MHz) FCC Failing Limit (dBm) Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm) Vertical Measured Emission Equi Pwr Into Ideal Dipole (dBm) 1/31.7/750 -20 -66.23 -59.52 2606.6625 -20 -60.31 -51.94 3475.5500 -20 * * 4344.4375 -20 -50.02 -39.00 5213.3250 -20 * * 6082.2125 -20 * * 6951.1000 -20 * * 7819.9875 -20 -44.46 * 8688.8750 -20 * * -0 -0 * * -10 -20 * * -20 * * * -20 * * * -10 -20 * * -20 * * * -20 * * * -20 * * * -20			Vertical Measured Emission Equ
2606.6625 -20 -60.31 -51.94 3475.5500 -20 * * 4344.4375 -20 -50.02 -39.00 5213.3250 -20 * * 6082.2125 -20 * * 6951.1000 -20 * * 7819.9875 -20 * * Radiated Spurious Emissions	20	Equit. I withto tool Dipole (abili)	Pwr Into Ideal Dipole (dBm)
3475.5500 -20 * * 4344.4375 -20 -50.02 -39.00 5213.3250 -20 * * 6082.2125 -20 * * 6951.1000 -20 * * 7819.9875 -20 -44.46 * Radiated Spurious Emissions	-20	-66.23	-59.52
4344.4375 -20 -50.02 -39.00 5213.3250 -20 * * 6082.2125 -20 * * 6951.1000 -20 * * 7819.9875 -20 -44.46 * 8688.8750 -20 * *	-20	-60.31	-51.94
5213.3250 -20 * * 6082.2125 -20 * * 6951.1000 -20 * * 7819.9875 -20 -44.46 * 8688.8750 -20 * *	-20	*	*
3213.3230 -20 * * 6082.2125 -20 * * 6951.1000 -20 * * 7819.9875 -20 -44.46 * 8688.8750 -20 * * Radiated Spurious Emissions	-20	-50.02	-39.00
6082.2125 -20 * * 6951.1000 -20 * * 7819.9875 -20 -44.46 * 8688.8750 -20 * *	-20	*	*
7819.9875 -20 -44.46 * 8688.8750 -20 * * Radiated Spurious Emissions Horizontal Measured Emission Equiv. Pwr Into Ideal Dirole (Bm)			_
Radiated Spurious Emissions *	-20	*	*
Radiated Spurious Emissions		-44.46	
0 - Emission Equiv. Pwr Into	-20	*	×
	Radiated Spuri	ous Emissions	Emission Equiv. Pwr Into Ideal Dipole (dBm)
-70 + 1737.7750 260		-20 -20 -20 -20 -20 -20 Radiated Spuri	-20 -50.02 -20 * -20 * -20 * -20 -44.46 -20 * Radiated Spurious Emissions



* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients. EXHIBIT 6 The data presented here was taken using the substitution method as found in the TIA/EIA-6002000.75

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

		SS Testing 2.15 dB for EIRP		
Date:	7/7/2009	0 MHz Single Band	S/N 1MWM38002	1
	AI X7300 - 7780		Notes: ANT: Quarter	
Tx Freq.	794.0875	_		
	Frequency	Peak Radiated Spurious Emissions: Analog Mode	Peak Radiated Spurious Emissions: APCO Mode	Peak Radiated Spurious Emissions: F2 Mode
Spur	MHz	(dBm)	(dBm)	(dBm)
2XFund	1588.1750	-58.54	-59.44	-56.84
Tx Freq.	805.9125		Notes: ANT: Quarter	Wave (HAF4016A
-	00010120	Peak Radiated	Peak Radiated	Peak Radiated
		Spurious Emissions:	Spurious Emissions:	Spurious Emissions:
	Frequency	Analog Mode	APCO Mode	F2 Mode
Spur	MHz	(dBm)	(dBm)	(dBm)
2XFund	1611.8250	-59.84	-59.44	-58.14

		SS Testing 2.15 dB for EIRP			
Date:	7/7/2009				
Product: APX7500 - 7/800 MHz Single Band			S/N 1MWM380024		
			Notes: ANT: Elevated 3 dB (HAF4014A)		
Tx Freq.	794.0875				
•	Frequency	Peak Radiated Spurious Emissions: Analog Mode	Peak Radiated Spurious Emissions: APCO Mode	Peak Radiated Spurious Emissions: F2 Mode	
Spur	MHz	(dBm)	(dBm)	(dBm)	
2XFund	1588.1750	-68.29	-67.89	-66.59	
T . F	005 0405		Notes: ANT: Elevated 3 dB (HAF4014A)		
Tx Freq.	805.9125	Peak Radiated	Peak Radiated	Peak Radiated	
		Spurious Emissions:	Spurious Emissions:		
	Frequency	Analog Mode	APCO Mode	F2 Mode	
Spur	MHz	(dBm)	(dBm)	(dBm)	
2XFund	1611.8250	-67.34	-66.94	-65.64	

Note 1: The reported emissions are wideband (>700Hz) spurs.

		SS Testing 2.15 dB for EIRP		
Date:	7/7/2009			
Product: APX7500 - 7/800 MHz Single Band		S/N 1MWM380024		
-			Notes: ANT: 3 dB Low Profile (HAF4013A)	
Tx Freq.	794.0875			
-		Peak Radiated	Peak Radiated	Peak Radiated
	Frequency	Spurious Emissions: Analog Mode	Spurious Emissions: APCO Mode	Spurious Emissions: F2 Mode
Spur	MHz	(dBm)	(dBm)	(dBm)
2XFund	1588.1750	-54.94	-54.54	-53.24
Tx Freq.	805.9125		Notes: ANT: 3 dB Low Profile (HAF4013A)	
-	000.0120	Peak Radiated	Peak Radiated	Peak Radiated
		Spurious Emissions:	Spurious Emissions:	Spurious Emissions:
	Frequency	Analog Mode	APCO Mode	F2 Mode
Spur	MHz	(dBm)	(dBm)	(dBm)
2XFund	1611.8250	-56.59	-56.19	-54.89

		SS Testing 2.15 dB for EIRP		
Date:	7/7/2009 APX7500 - 7/80	MHz Single Band	S/N 1MWM38002	4
	uct: APX7500 - 7/800 MHz Single Band		Notes: ANT: 3 dB Collinear (HAF4015A)	
Tx Freq.	794.0875			
-	Frequency	Peak Radiated Spurious Emissions: Analog Mode	Peak Radiated Spurious Emissions: APCO Mode	Peak Radiated Spurious Emissions: F2 Mode
Spur	MHz	(dBm)	(dBm)	(dBm)
2XFund	1588.1750	-56.54	-56.14	-54.84
Tx Freq.	805.9125		Notes: ANT: 3 dB Collinear (HAF4015A)	
	003.9123	Peak Radiated	Peak Radiated	Peak Radiated
	Frequency	Spurious Emissions: Analog Mode	Spurious Emissions: APCO Mode	
Spur	MHz	(dBm)	(dBm)	(dBm)
2XFund	1611.8250	-58.34	-57.94	-56.64

Note 1: The reported emissions are wideband (>700Hz) spurs.

		SS Testing ·2.15 dB for EIRP		
Date:	7/7/2009	_		
Product: APX7500 - 7/800 MHz Single Band		S/N 1MWM380024		
			Notes: ANT: 3 dB Low-Profile (HAF4018A	
Tx Freq.	794.0875			
-		Peak Radiated	Peak Radiated	Peak Radiated
		Spurious Emissions:	Spurious Emissions:	Spurious Emissions
	Frequency	Analog Mode	APCO Mode	F2 Mode
Spur	MHz	(dBm)	(dBm)	(dBm)
2XFund	1588.1750	-57.44	-57.04	-55.74
			Notes: ANT: 3 dB Low-Profile (HAF40	
Tx Freq.	805.9125	_		
		Peak Radiated	Peak Radiated	Peak Radiated
		Spurious Emissions:	Spurious Emissions:	Spurious Emissions
	Frequency	Analog Mode	APCO Mode	F2 Mode
Spur	MHz	(dBm)	(dBm)	(dBm)
2XFund	1611.8250	-59.24	-58.84	-57.54

Note 1:The reported emissions are wideband (>700Hz) spurs.

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

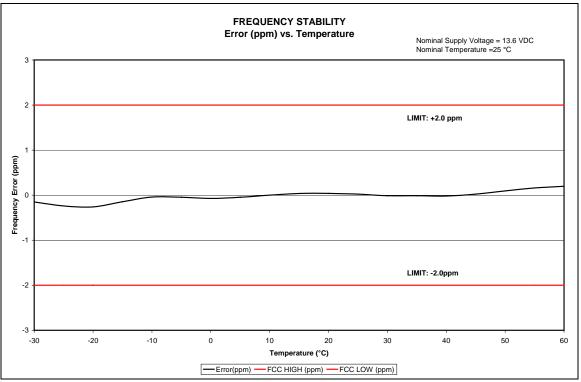


Figure 6J-1: Frequency Stability vs. Temperature, 484.9875 MHz, -30°C to 60°C

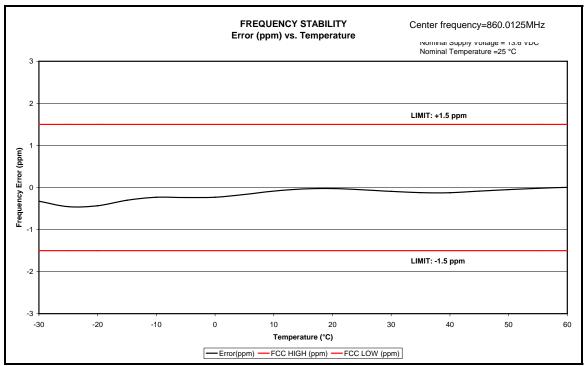


Figure 6J-2: Frequency Stability vs. Temperature, 860.0125 MHz, -30°C to 60°C

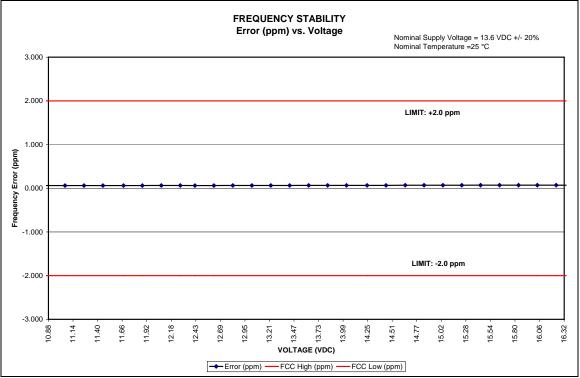


Figure 6J-3: Frequency Stability vs. Supply Voltage Change, 484.9875 MHz

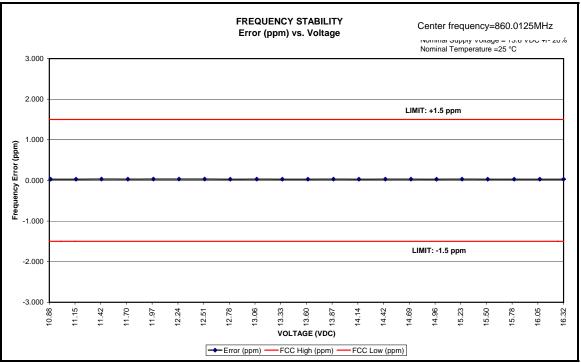


Figure 6J-4: Frequency Stability vs. Supply Voltage Change, 860.0125 MHz

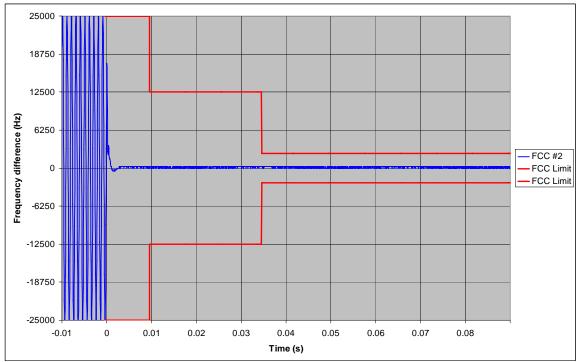


EXHIBIT 6K Transient Frequency Behavior - Pursuant 47 CFR 90.214

Figure 6K-1: Transient Frequency Behavior. 484.9875 MHz, 25 kHz Channel Spacing, Key-up (Not for FCC Review)

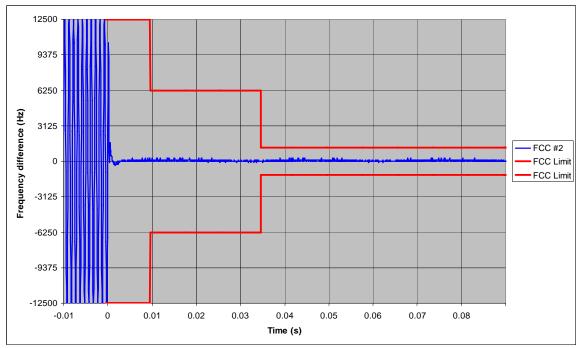


Figure 6K-2: Transient Frequency Behavior. 484.9875 MHz, 12.5 kHz Channel Spacing, Key-up Transient

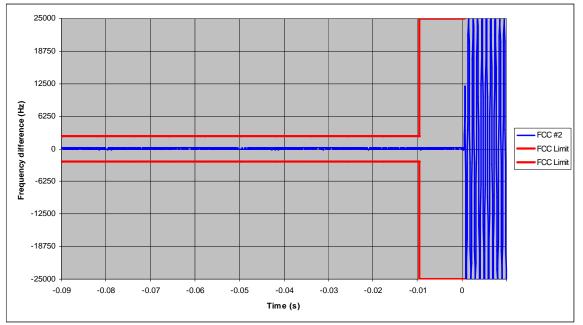


Figure 6K-3: Transient Frequency Behavior. 484.9875 MHz, 12.5 kHz Channel Spacing, De-Key Transient

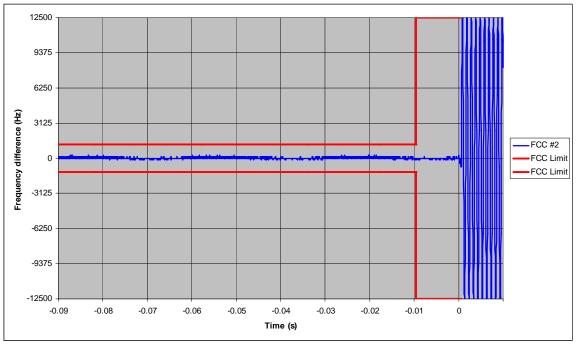


Figure 6K-4: Transient Frequency Behavior. 484.9875 MHz, 25 kHz Channel Spacing, De-Key (Not for FCC Review)