Submitted Measured Data

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RF Power Output Data

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

484.975 MHz

Measured RF output	5.3 Watts
Nominal DC voltage	7.5 Volts
Nominal DC Current	1.79 Amps
Primary Supply Voltage	7.5 Volts
Measured RF output	3.0 Watts
Nominal DC voltage	7.5 Volts
Nominal DC Current	1.30 Amps
Primary Supply Voltage	7.5 Volts
Measured RF output	1.0 Watt
Nominal DC voltage	7.5 Volts
Nominal DC Current	0.80 Amps
Primary Supply Voltage	7.5 Volts

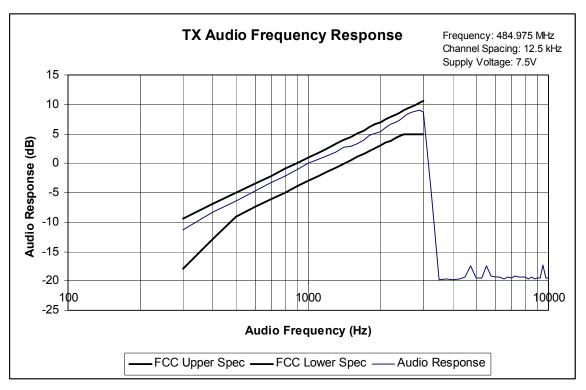


EXHIBIT 6B-1

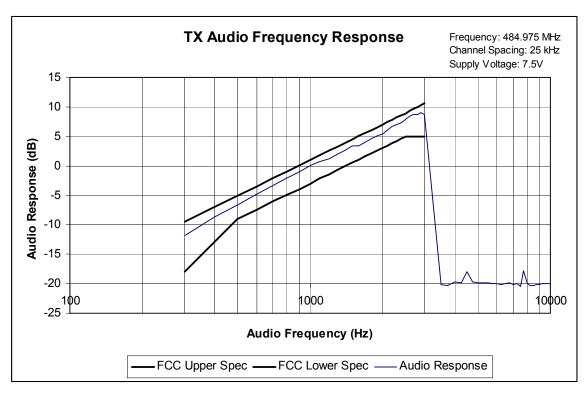


EXHIBIT 6B-2

Applicant: Motorola Inc.

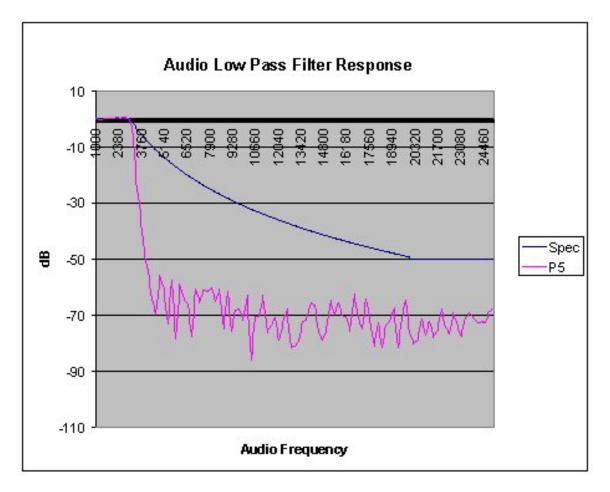
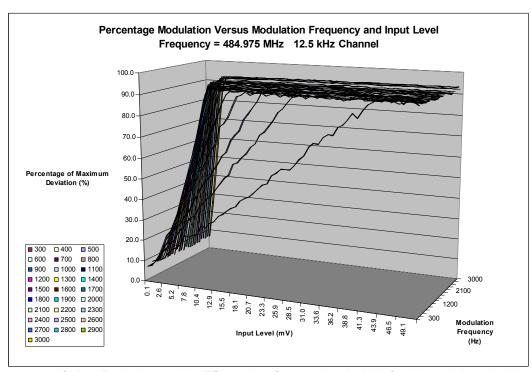
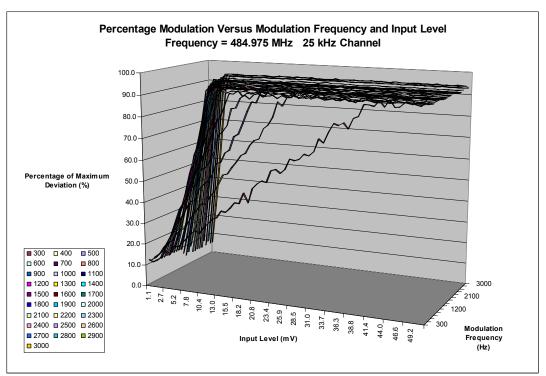


EXHIBIT 6C



The Percentage of Max. Deviation on the "Z" axis is referenced to 2.5kHz for 12.5kHz bandwidth

EXHIBIT 6D-1



The Percentage of Max. Deviation on the "Z" axis is referenced to 5.0kHz for 25kHz bandwidth

Applicant: Motorola Inc. FCC ID: AZ489FT4864

Occupied Bandwidth Data

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: AZ489FT5804.

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 kHz + 2.5 kHz) = 11 kHz ===> 11K0

F3E portion of the designator indicates voice.

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

EXHIBIT 6E-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 kHz + 5 kHz) = 16 kHz ===> 16K0

F3E portion of the designator indicates voice.

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

EXHIBIT 6E-3

Digital (12.5 kHz Channelization, Digital Data):

Emission Designator 8K10F1D

Measurements per Rule Part 2.202 Section C (4) were done because Part 2.202 Section g Table III A, 1 formulation produces an excessive result using the value of K recommended in the Table. Therefore, 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.

Applicant: Motorola Inc. FCC ID: AZ489FT4864

EXHIBIT 6E-4

Digital (12.5 kHz Channelization, Digital Voice):

Emission Designator 8K10F1E

Measurements per Rule Part 2.202 Section C (4) were done because Part 2.202 Section g Table III A, 1 formulation produces an excessive result using the value of K recommended in the Table. Therefore, 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.

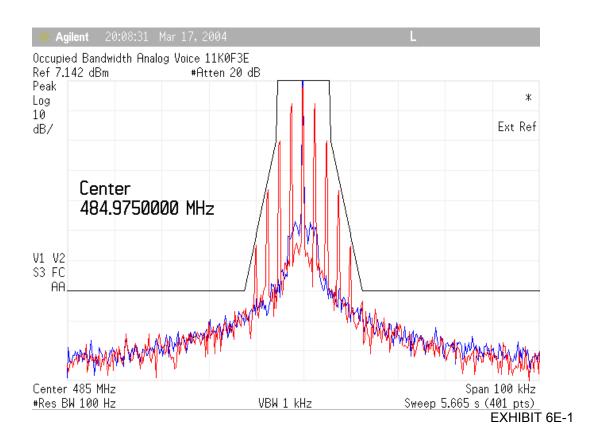
EXHIBIT 6E-5

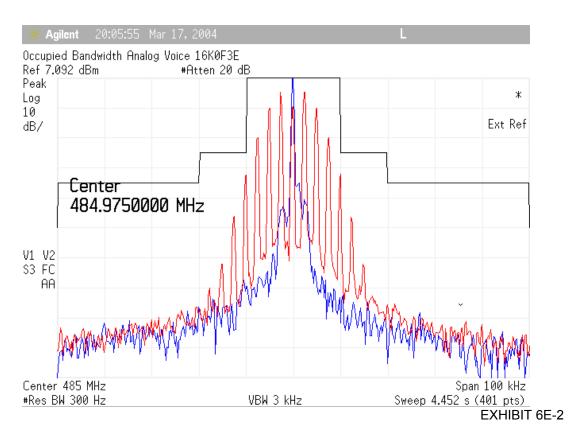
<u>Digital Modulation (20 kHz Channelization, Digital Voice with encryption):</u>
Emission Designator 20K0F1E

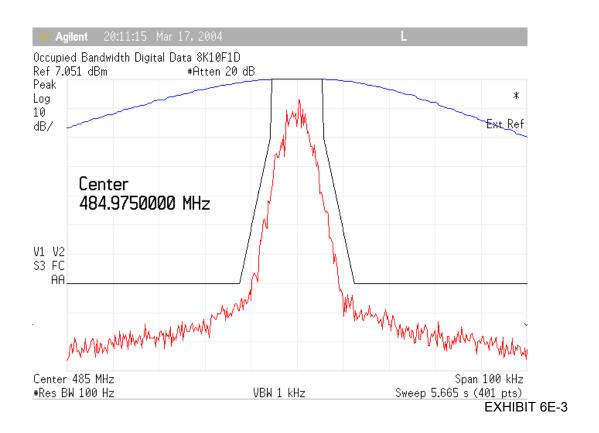
In this case, the maximum modulating frequency is 6 kHz with a 4 kHz deviation.

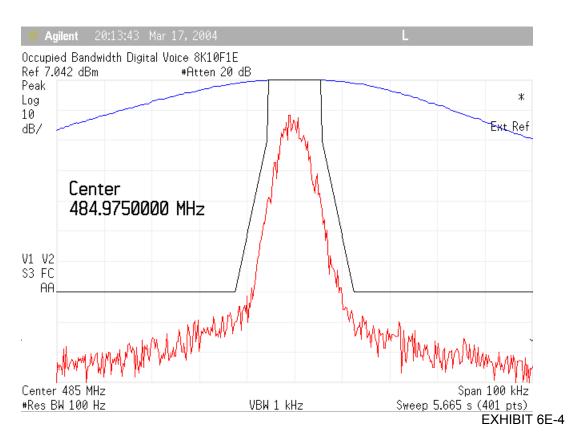
BW = 2(M+D) = 2*(6 kHz + 4 kHz) = 20 kHz ===> 20K0 F1E portion of the designator indicates digital voice.

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









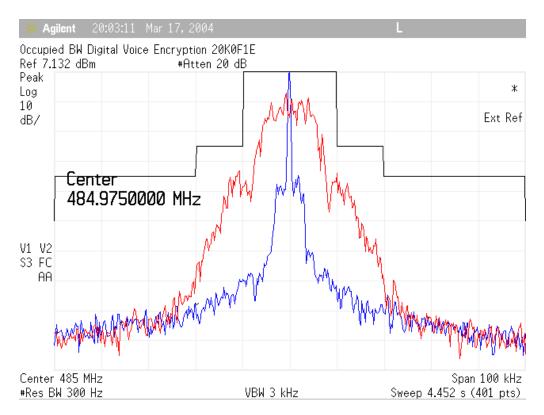
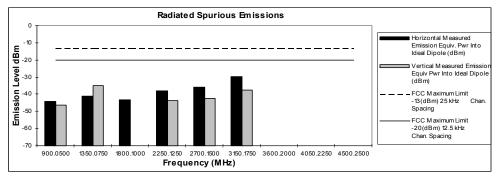


EXHIBIT 6E-5

Transmitter Radiated Spurious Emissions: XTS5000

450.025 MHz	5.3 Watts	Channel Spacing 12.5kHZ S/N #68		
	FCC Maximum Limit	FCC Maximum Limit	Horizontal Measured Emission	Vertical Measured
	-13(dBm) 25 kHz	-20(dBm) 12.5 kHz	Equiv. Pwr Into Ideal Dipole	Emission Equiv Pwr Into
Frequency (MHz)	Chan. Spacing	Chan. Spacing	(dBm)	Ideal Dipole (dBm)
900.0500	-13	-20	-44.00	-46.17
1350.0750	-13	-20	-41.33	-35.22
1800.1000	-13	-20	-43.40	*
2250.1250	-13	-20	-37.94	-43.83
2700.1500	-13	-20	-35.76	-42.52
3150.1750	-13	-20	-29.92	-37.49
3600.2000	-13	-20	*	*
4050.2250	-13	-20	*	*
4500.2500	-13	-20	*	*



^{*} 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.

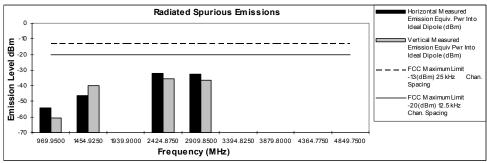
Motorola Plantation EMC Lab – Test Performed by: Curt Mc Lennan FCC Registration: 91932 / Industry Canada: IC3679

March 18, 2004

EXHIBIT 6F-1

Transmitter Radiated Spurious Emissions: XTS5000

484.975 MHz	5.3 Watts	Channel Spacing 12.5kHZ S/N #68		
	FCC Maximum Limit	FCC Maximum Limit	Horizontal Measured Emission	
	-13(dBm) 25 kHz	-20(dBm) 12.5 kHz	Equiv. Pwr Into Ideal Dipole	Emission Equiv Pwr Into
Frequency (MHz)	Chan. Spacing	Chan. Spacing	(dBm)	Ideal Dipole (dBm)
969.9500	-13	-20	-54.44	-60.50
1454.9250	-13	-20	-46.37	-40.10
1939.9000	-13	-20	*	*
2424.8750	-13	-20	-31.84	-35.30
2909.8500	-13	-20	-32.57	-36.69
3394.8250	-13	-20	*	*
3879.8000	-13	-20	*	*
4364.7750	-13	-20	*	*
4849.7500	-13	-20	*	*



^{*} 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.

Motorola Plantation EMC Lab – Test Performed by: Curt Mc Lennan FCC Registration: 91932 / Industry Canada: IC3679

March 18, 2004

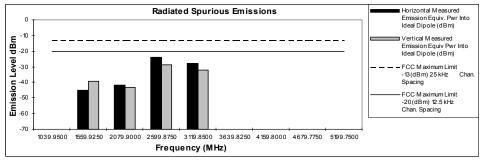
Transmitter Radiated Spurious Emissions: XTS5000

5.3 Watts

519.975 MHz

FCC Maximum Limit -20(dBm) 12.5 kHz Horizontal Measured Emission
Equiv. Pwr Into Ideal Dipole Emission Equiv Pwr Into FCC Maximum Limit -13(dBm) 25 kHz

Frequency (MHz)	Chan. Spacing	Chan. Spacing	(dBm)	Ideal Dipole (dBm)
1039.9500	-13	-20	*	*
1559.9250	-13	-20	-44.90	-39.16
2079.9000	-13	-20	-41.58	-43.34
2599.8750	-13	-20	-23.84	-28.99
3119.8500	-13	-20	-27.84	-32.17
3639.8250	-13	-20	*	*
4159.8000	-13	-20	*	*
4679.7750	-13	-20	*	*
5199.7500	-13	-20	*	*



^{*} 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.

Motorola Plantation EMC Lab - Test Performed by: Curt Mc Lennan FCC Registration: 91932 / Industry Canada: IC3679

March 18, 2004

Channel Spacing 12.5kHZ | S/N #68

EXHIBIT 6F-3

Transmitter Conducted Spurious and Harmonic Emissions

Frequency: 450.025 MHz Power Out: 5.3 W Channel Spacing 12.5 kHz

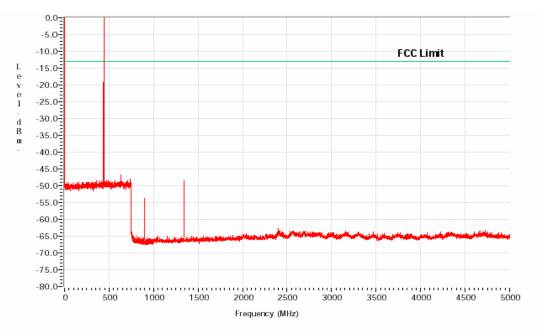
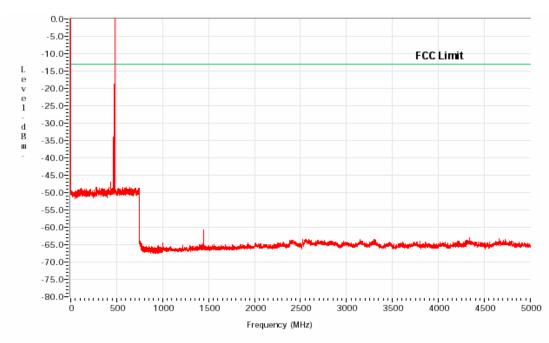


Exhibit 6G - 1

Transmitter Conducted Spurious and Harmonic Emissions

Frequency: 484.975 MHz Power Out: 5.3 W Channel Spacing 12.5 kHz



Transmitter Conducted Spurious and Harmonic Emissions

Frequency: 519.025 MHz Power Out: 5.3 W Channel Spacing 12.5 kHz

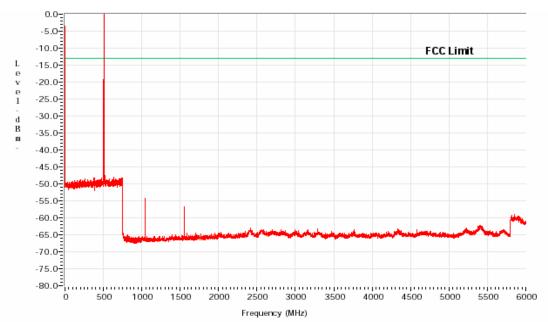


Exhibit 6G – 3

Power Line Conducted Spurious Emissions

Scan Parameters: Hardware Setup latest FCC class B - [EMI conducted]

Subrange 1

Freq. Range: 150kHz - 30MHz

Receiver: ESMI

Transducer: LISN / ESMI-LISN

Test frequencies were swept from 150kHz to 30Mhz in accordance with FCC 15.107. The tables below list the worst-case quasi-peak and average detector values for both Line and Neutral.

Test Information

EMC03222004-112 #68 Mode OFF using impres charger WPLN4114 and NiCd Battery

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)
0.178000	47.2	37.4
0.186000	48.3	39.5
0.270000	47.8	40.7
0.274000	46.4	37.7
0.366000	38.0	32.2
0.546000	35.5	32.2

EXHIBIT 6H-1

Test Information

EMC03222004-112 #68 Tx 465.225MHz using impres charger WPLN4114 & NiCd Battery

Frequency (MHz)	QuasiPeak (dBµV)	Average (dBµV)
0.182000	47.2	37.6
0.274000	44.1	39.4
0.366000	42.7	39.8
0.454000	42.4	32.0

EXHIBIT 6H-2

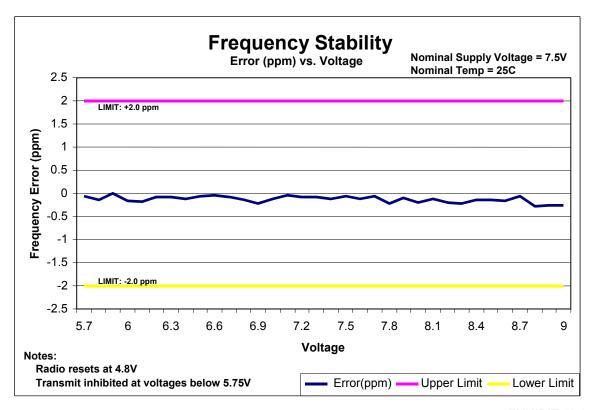


EXHIBIT 6I-1

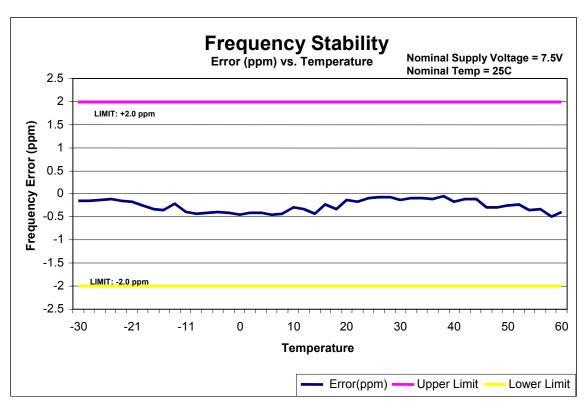


EXHIBIT 6I-2

Transmitter Transient Frequency Behavior
Frequency = 484.975 MHz Channel Spacing = 12.5 kHz

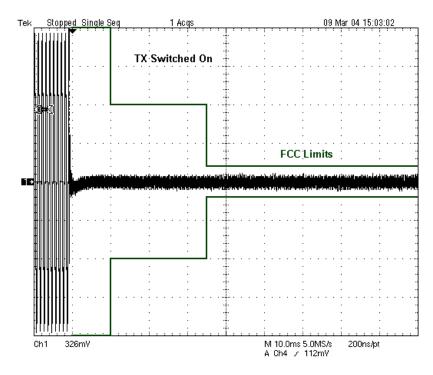


EXHIBIT 6J-1

Transmitter Transient Frequency Behavior
Frequency = 484.975 MHz Channel Spacing = 12.5 kHz

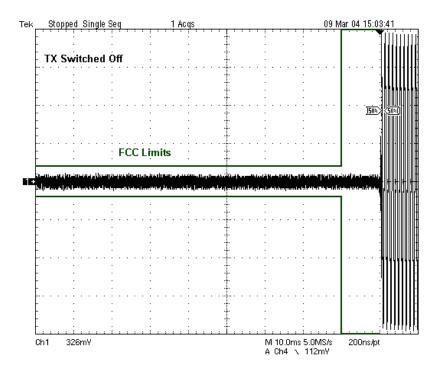
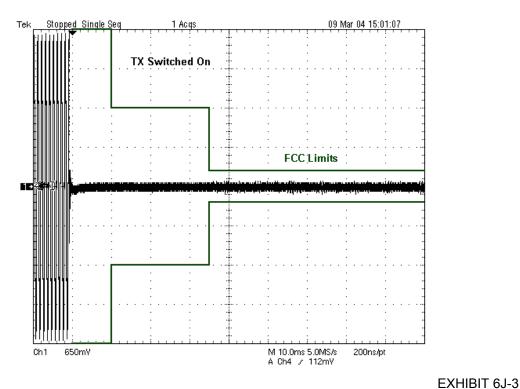


EXHIBIT 6J-2

Transmitter Transient Frequency Behavior
Frequency = 484.975 MHz Channel Spacing = 25 kHz



Transmitter Transient Frequency Behavior
Frequency = 484.975 MHz Channel Spacing = 25 kHz

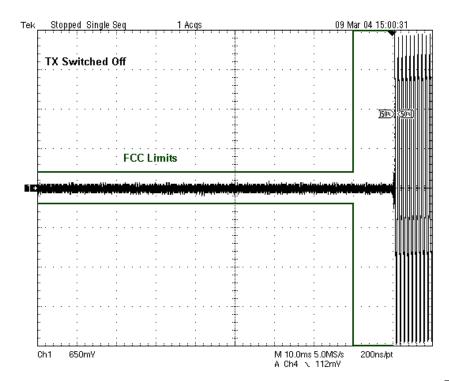


EXHIBIT 6J-4