



MOTOROLA

FCC ID: AZ489FT4868

Test Report

<u>MEASUREMENT</u>	<u>EXHIBIT</u>	<u>NUMBER OF PAGES</u>
1 RF Power Output	6A	1
2 Audio Response A. 3/4Watt 12.5kHz / 25kHz	6B	1
3 Modulation Limiting A. 3/4Watt 12.5KHz / 25KHz	6C	1
4 Occupied Bandwidth	6D 1-2	3
5 Radiated Spurious Emission A. TX Vertical / Horizontal 3/4W	6E 1-2	3
6 Frequency Stability A. Temperature B. Frequency vs. Voltage C. Transient Frequency Behavior	6F 6F1 6G	2 4

EXHIBIT 6



MOTOROLA

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RF POWER OUTPUT DATA

The RF power output was measured according to the TIA/EIA-603-A Conducted power out methods of Measurement for Transmitters

Conducted RF power out 1/4W	0.259W
DC Voltage	4.5Vdc
DC Current	.331Amps

Conducted RF power out 1/2W	0.500W
DC Voltage	4.5Vdc
DC Current	.445 Amps

Conducted RF power out 3/4W	0.760W
DC Voltage	4.5Vdc
DC Current	.570Amps

EXHIBIT 6A



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AUDIO RESPONSE

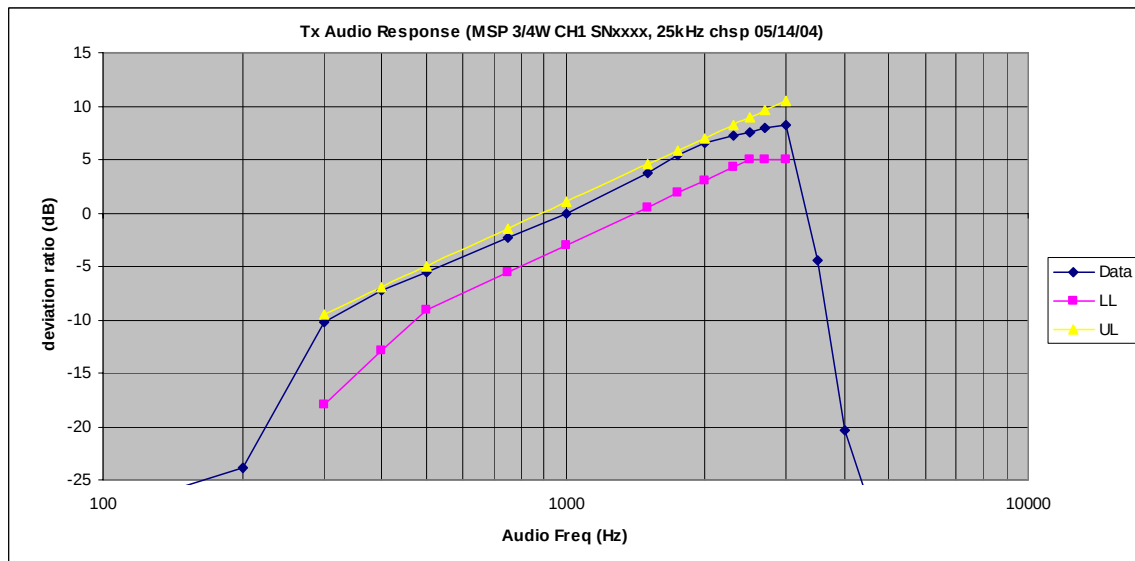
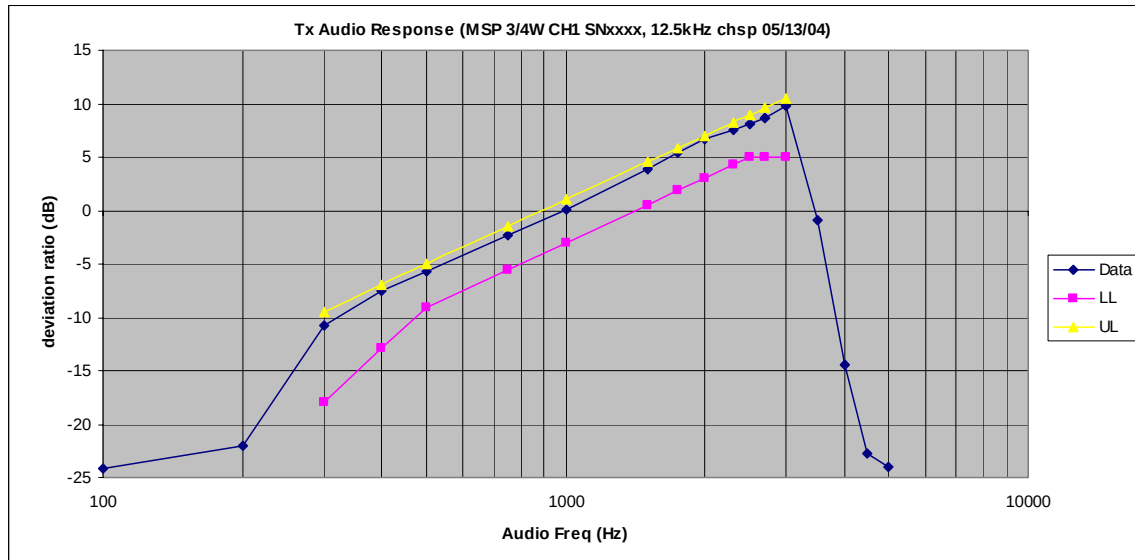


EXHIBIT 6B



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MODULATION LIMITING

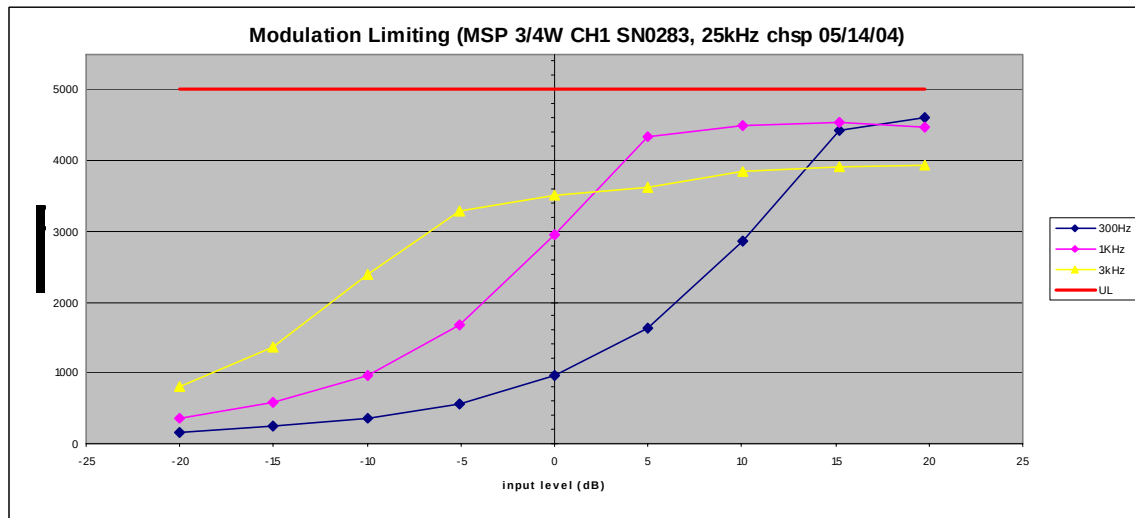
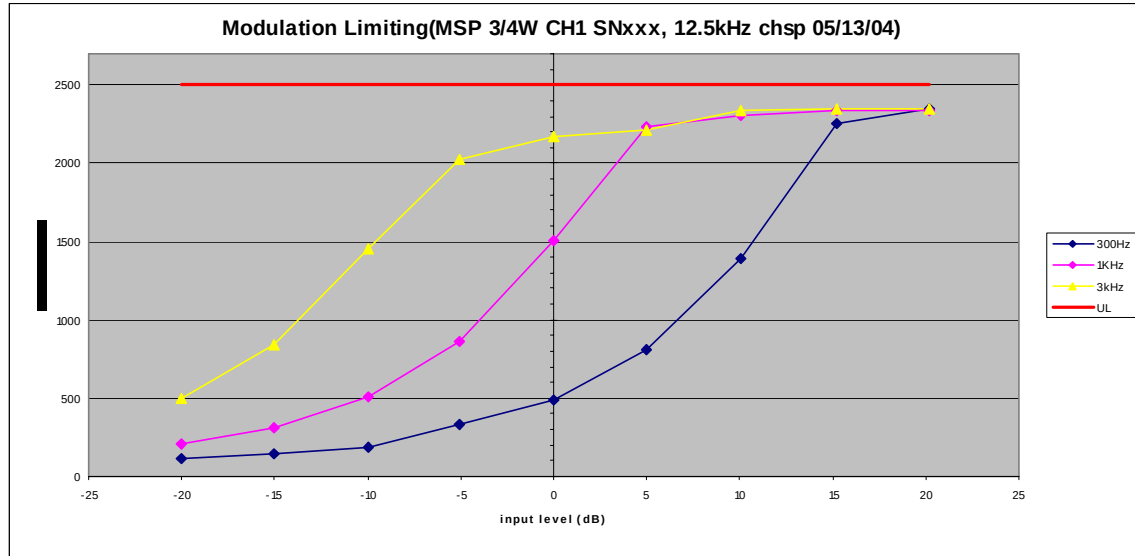


EXHIBIT 6C



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OCCUPIED BANDWIDTH DATA

12.5kHz / 25kHz Channel Spacing

EXHIBIT 6D-1

2500 Hz Audio Modulation

Emission Type: 11K0F3E / 16K0F3E

Specification Mask D, 90.210 – 12.5kHz

Specification Mask B, 90.210 – 25kHz

EXHIBIT 6D-2

2500 Hz & 77Hz Tone "PL" Modulation

Emission Type: 11K0F3E / 16K0F3E

Specification Mask D, 90.210 – 12.5kHz

Specification Mask B, 90.210 – 25kHz

CARSON'S RULE: **11K0F3E**

BW= 2(M+D)

BW=2(3kHz maximum modulation frequency +2.5kHz deviation)

CARSON'S RULE: **16K0F3E**

BW= 2(M+D)

BW=2 (3kHz maximum modulation frequency +5 kHz deviation)

BW=2 (8)

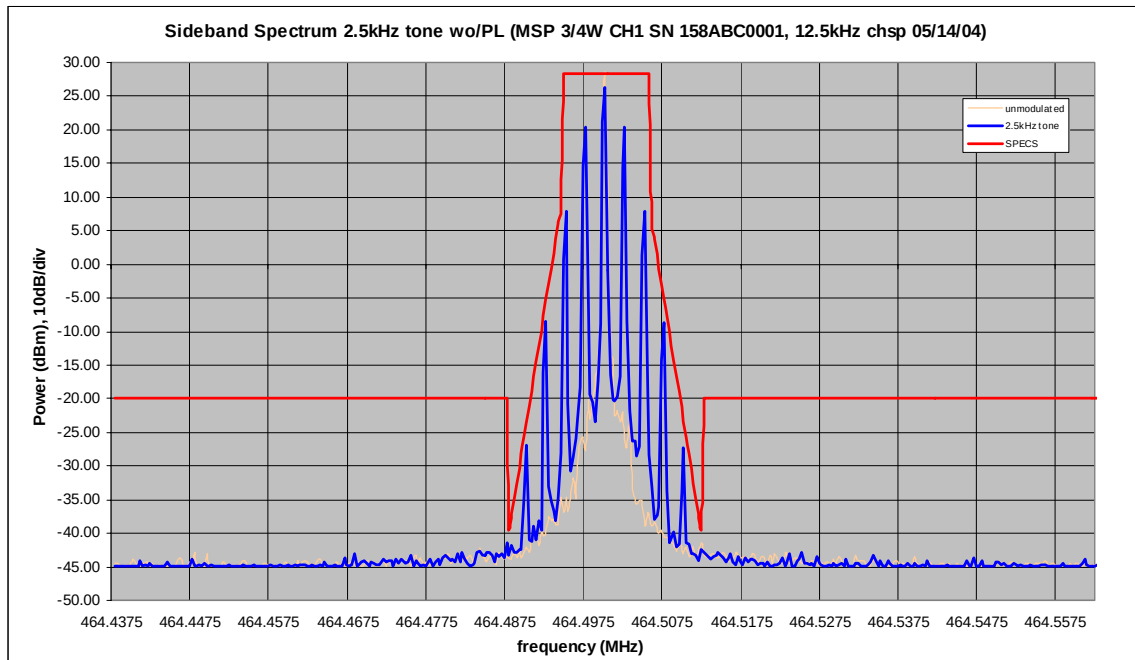
BW= 16K0

EXHIBIT 6D

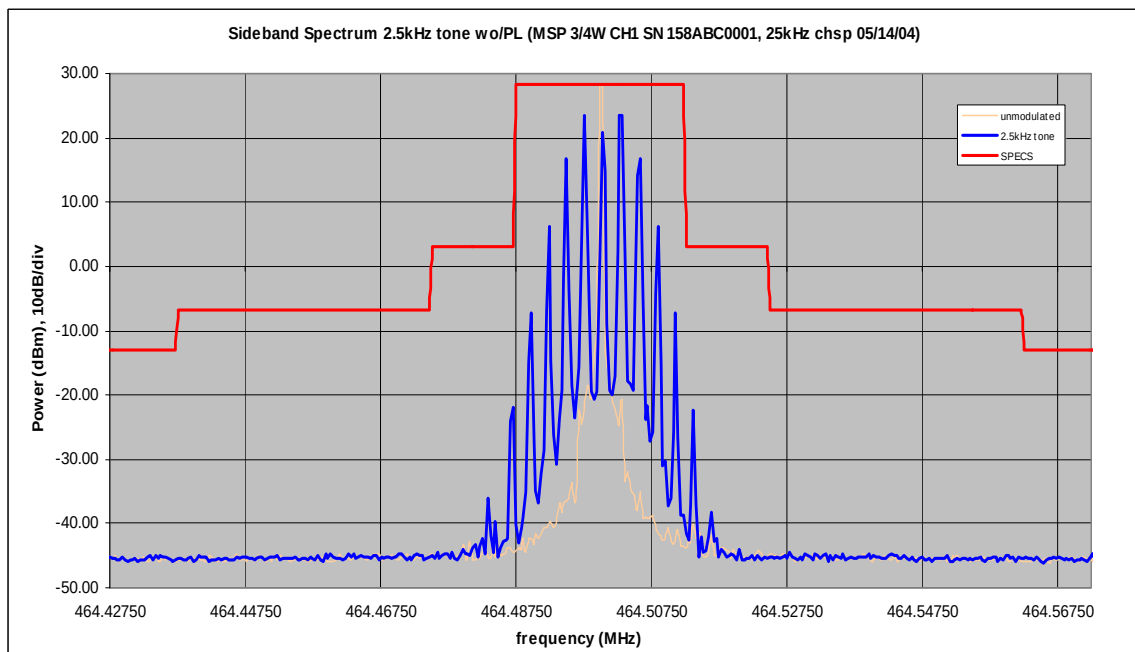


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11K0F3E
MASK D



16K0F3E
MASK B

EXHIBIT6D-1



MOTOROLA

FCC ID: AZ489FT4868

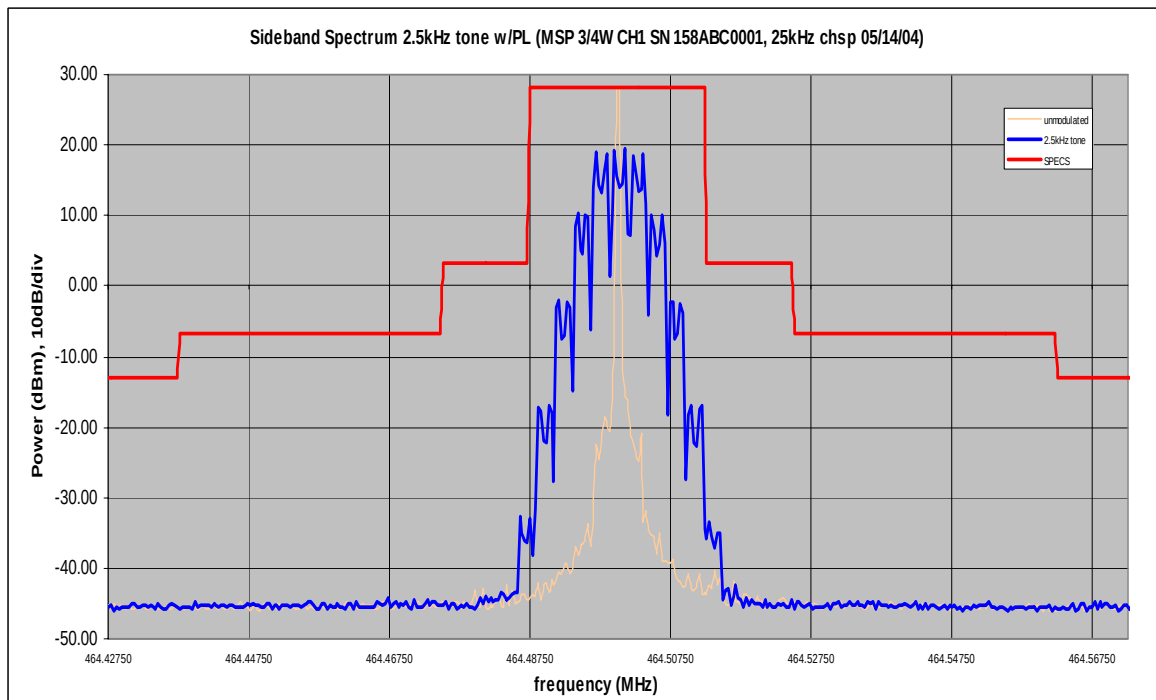
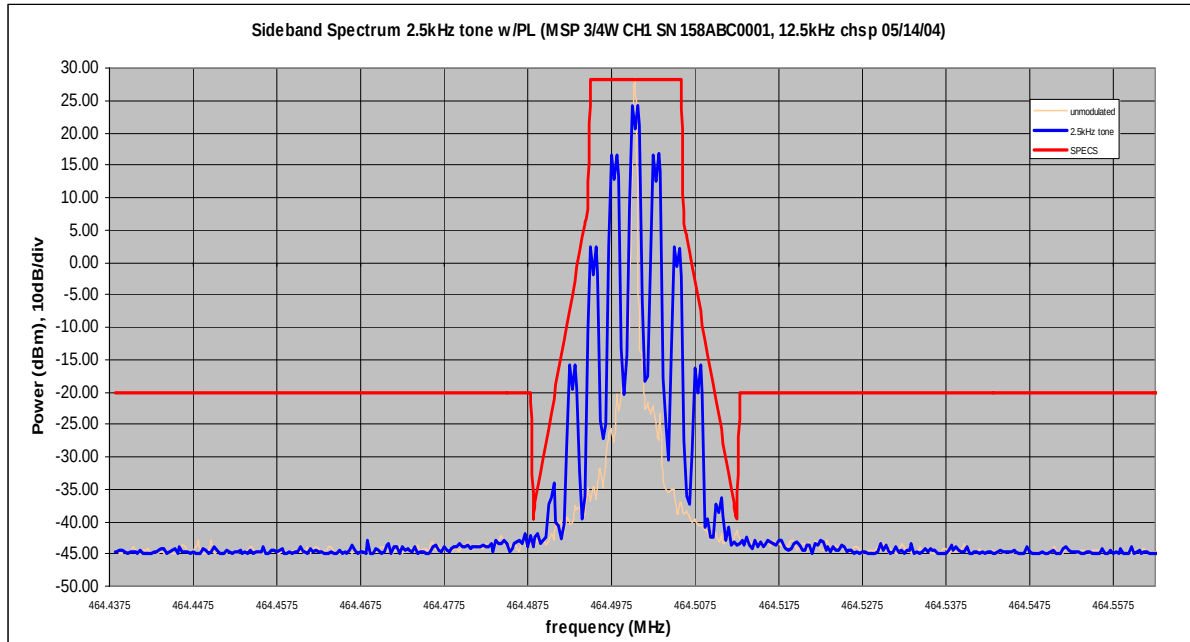


EXHIBIT 6D-2



MOTOROLA

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Transmitter Radiated Spurious Emission

Transmitter Radiated Spurious Emission was measured with Alkaline Batteries, and the 53936 MOC4600i AC Power Supply. The worst case spurious emission was observed when using the AC power supply, and the results are displayed in the graphs below.

EXHIBIT 6E

**MOTOROLA**

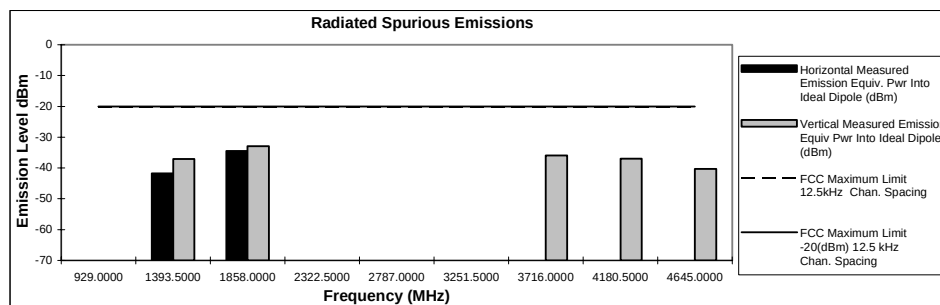
FCC ID: AZ489FT4868

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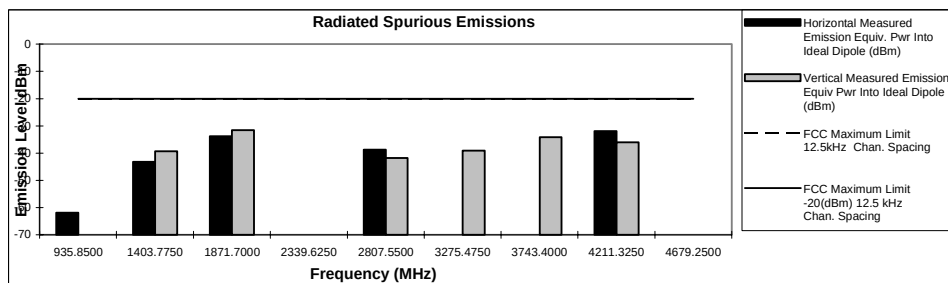
FCC ID:AZ489FT4868

Transmitter Radiated Spurious Emissions: Motorola On Call A**464.5 MHz 0.75 Watts Channel Spacing 12.5kHz | S/N 158ABC0005**

Frequency (MHz)	FCC Maximum Limit 12.5kHz Chan. Spacing	FCC Maximum Limit -20(dBm) 12.5 kHz Chan. Spacing	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
929.0000	-20	-20	*	*
1393.5000	-20	-20	-41.82	-37.11
1858.0000	-20	-20	-34.49	-32.93
2322.5000	-20	-20	*	*
2787.0000	-20	-20	*	*
3251.5000	-20	-20	*	*
3716.0000	-20	-20	*	-35.95
4180.5000	-20	-20	*	-37.05
4645.0000	-20	-20	*	-40.29

**Transmitter Radiated Spurious Emissions: Motorola On Call AC PWR****467.925 MHz 0.75 Watts Channel Spacing 12.5kHz | S/N 158ABC0005**

Frequency (MHz)	FCC Maximum Limit 12.5kHz Chan. Spacing	FCC Maximum Limit -20(dBm) 12.5 kHz Chan. Spacing	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
935.8500	-20	-20	-61.80	*
1403.7750	-20	-20	-43.24	-39.26
1871.7000	-20	-20	-33.82	-31.57
2339.6250	-20	-20	*	*
2807.5500	-20	-20	-38.75	-41.83
3275.4750	-20	-20	*	-39.14
3743.4000	-20	-20	*	-34.19
4211.3250	-20	-20	-31.93	-36.02
4679.2500	-20	-20	*	*



* 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: Constantin Belean
FCC Registration: 91932 / Industry Canada: IC3679

May 13, 2004

EXHIBIT 6E1

**MOTOROLA**

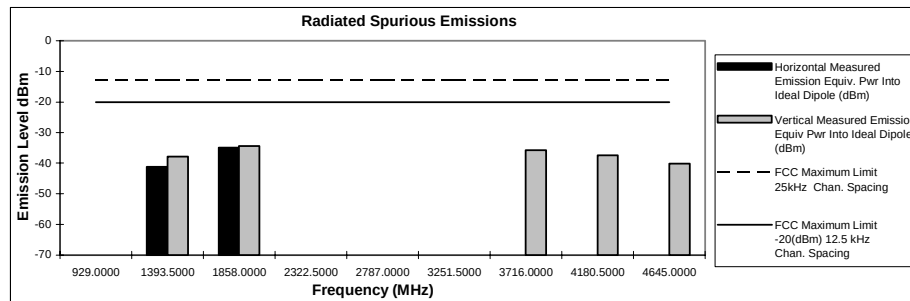
FCC ID: AZ489FT4868

Motorola Inc.

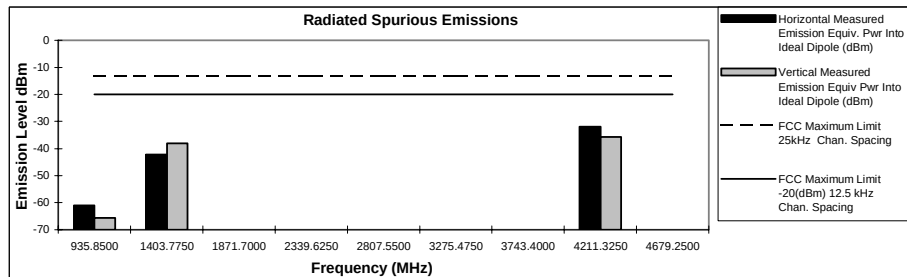
FCC ID:AZ489FT4868

Transmitter Radiated Spurious Emissions: Motorola On Call A**464.5 MHz 0.75 Watts Channel Spacing 25kHz | S/N 158ABC0005**

Frequency (MHz)	FCC Maximum Limit 25kHz Chan. Spacing	FCC Maximum Limit -20(dBm) 12.5 kHz Chan. Spacing	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
929.0000	-13	-20	*	*
1393.5000	-13	-20	-41.12	-37.86
1858.0000	-13	-20	-34.92	-34.39
2322.5000	-13	-20	*	*
2787.0000	-13	-20	*	*
3251.5000	-13	-20	*	*
3716.0000	-13	-20	*	-35.74
4180.5000	-13	-20	*	-37.42
4645.0000	-13	-20	*	-40.21

**Transmitter Radiated Spurious Emissions: Motorola On Call AC PWR****467.925 MHz 0.75 Watts Channel Spacing 25kHz | S/N 158ABC0005**

Frequency (MHz)	FCC Maximum Limit 25kHz Chan. Spacing	FCC Maximum Limit -20(dBm) 12.5 kHz Chan. Spacing	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
935.8500	-13	-20	-61.05	-65.66
1403.7750	-13	-20	-42.23	-38.12
1871.7000	-13	-20	*	*
2339.6250	-13	-20	*	*
2807.5500	-13	-20	*	*
3275.4750	-13	-20	*	*
3743.4000	-13	-20	*	*
4211.3250	-13	-20	-31.99	-35.75
4679.2500	-13	-20	*	*



* 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: Constantin Belean
FCC Registration: 91932 / Industry Canada: IC3679

May 13, 2004

EXHIBIT 6E2



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Frequency Stability over Temperature

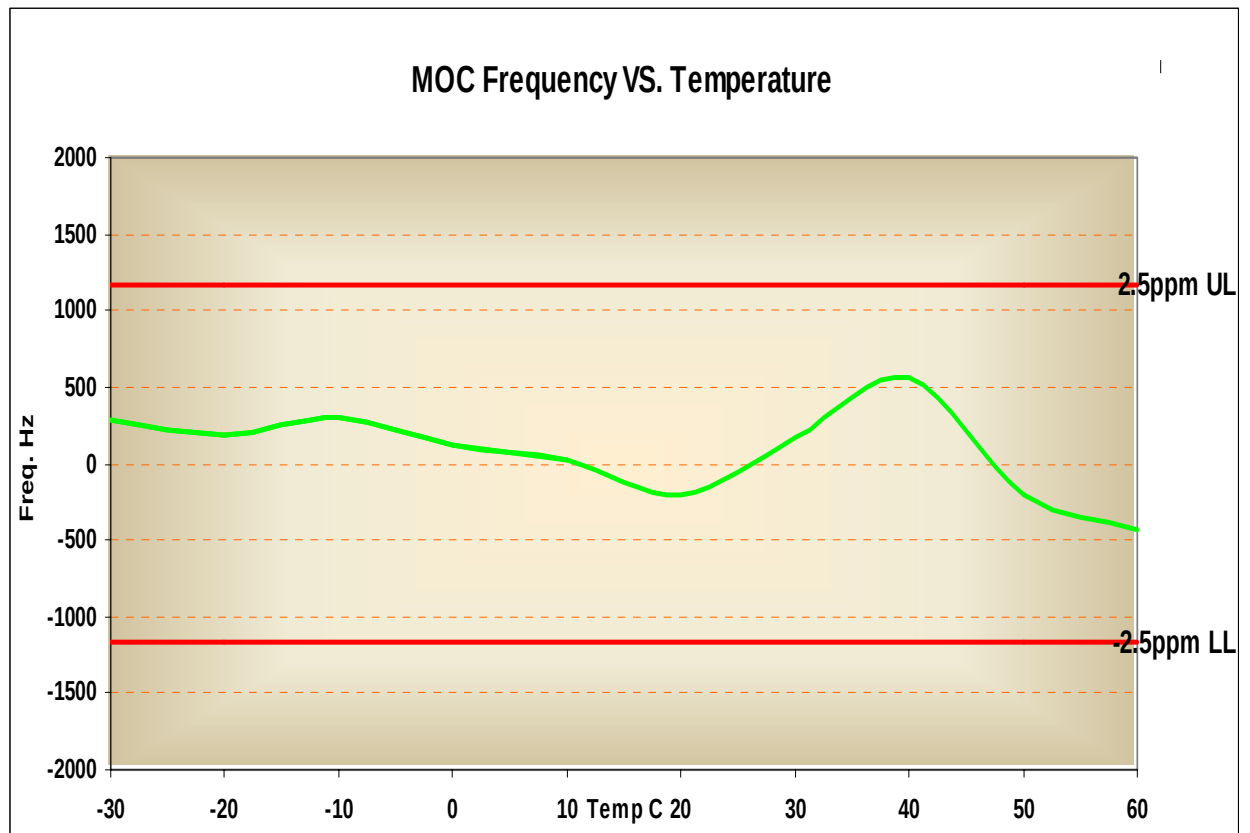


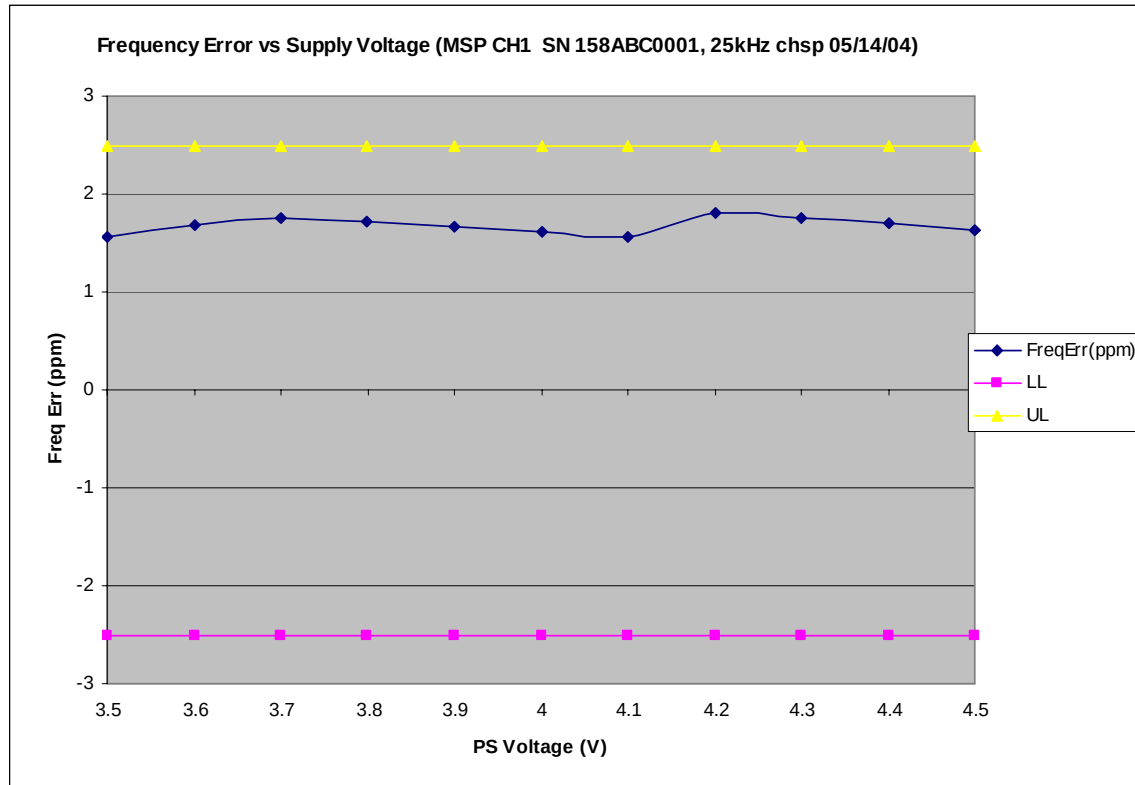
EXHIBIT 6F



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Frequency versus Supply Voltage



Radio reset voltage = 3.2vdc

EXHIBIT 6F1



Transient Frequency response TX on 25 kHz





MOTOROLA

FCC ID: AZ489FT4868

Transient Frequency response TX off 25 kHz

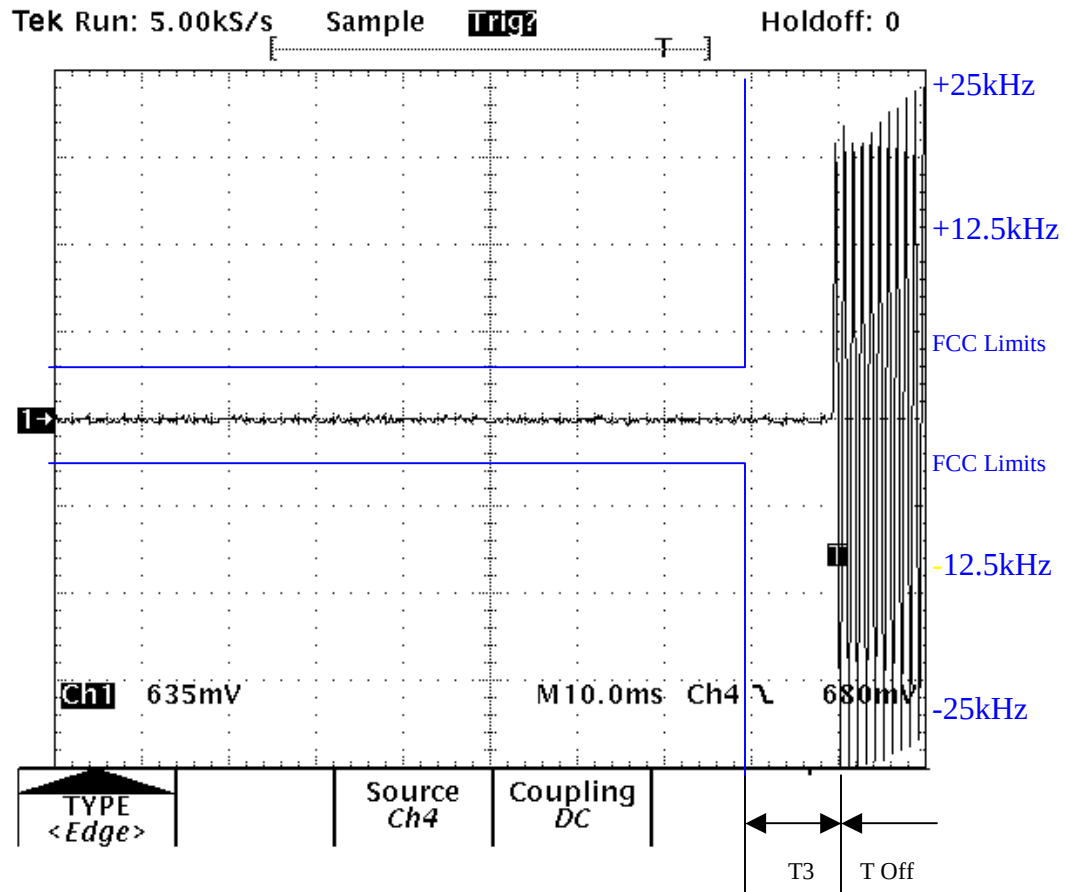


EXHIBIT 6G1



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FCC ID: AZ489FT4868

Transient Frequency response TX on 12.5 kHz

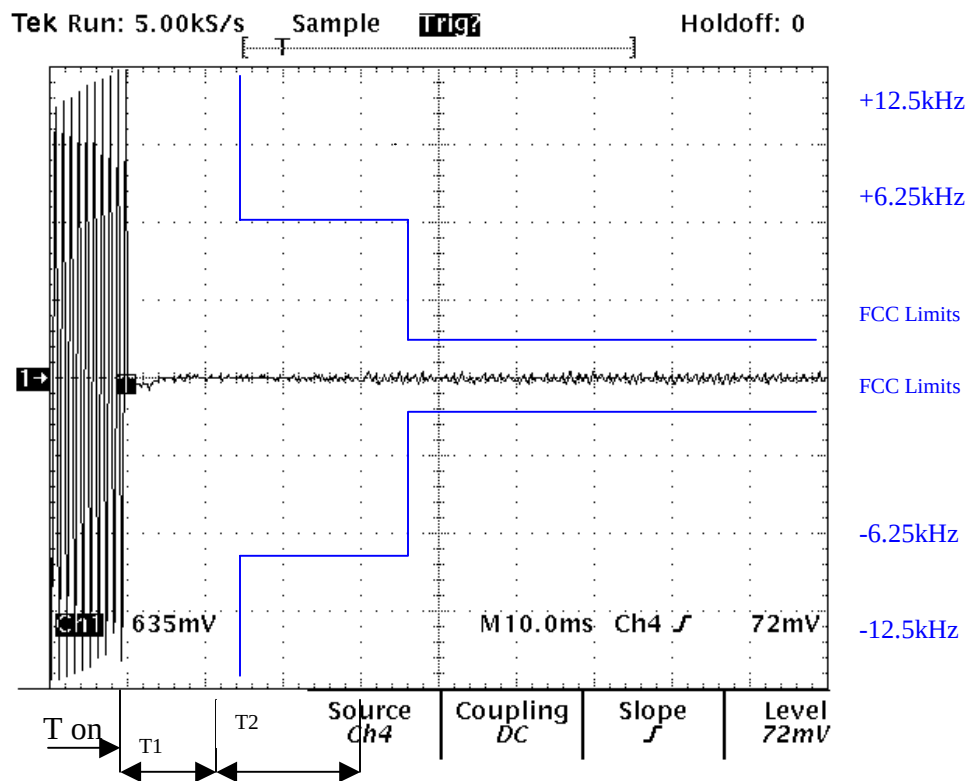


EXHIBIT 6G2



MOTOROLA

FCC ID: AZ489FT4868

Transient Frequency response TX off 12.5 kHz

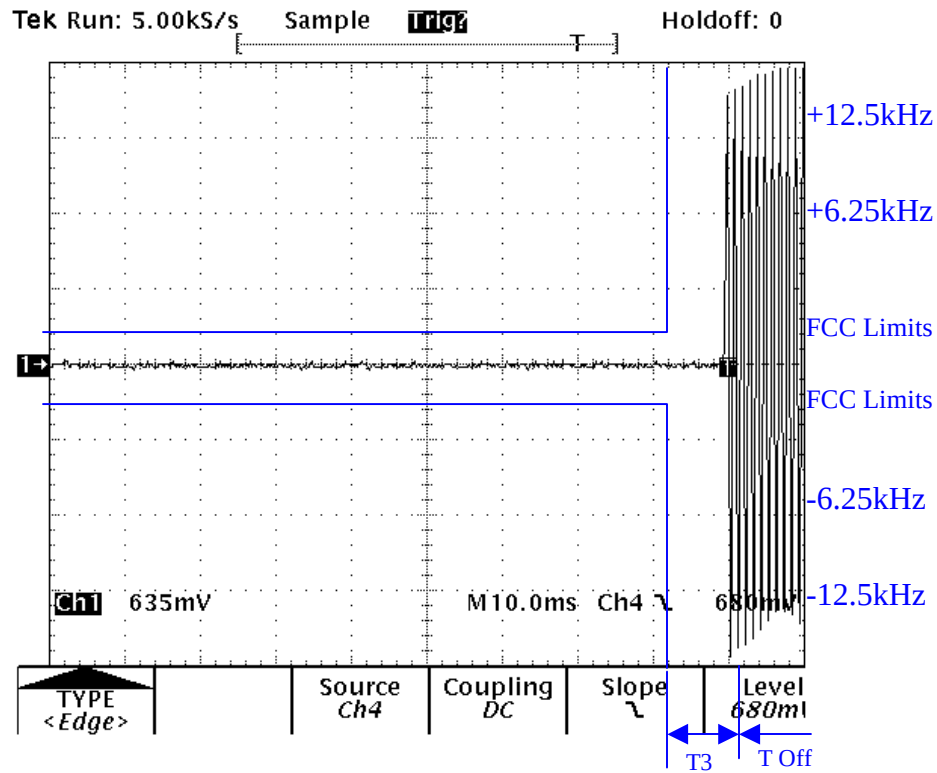


EXHIBIT 6G3