

MEASURED DATA

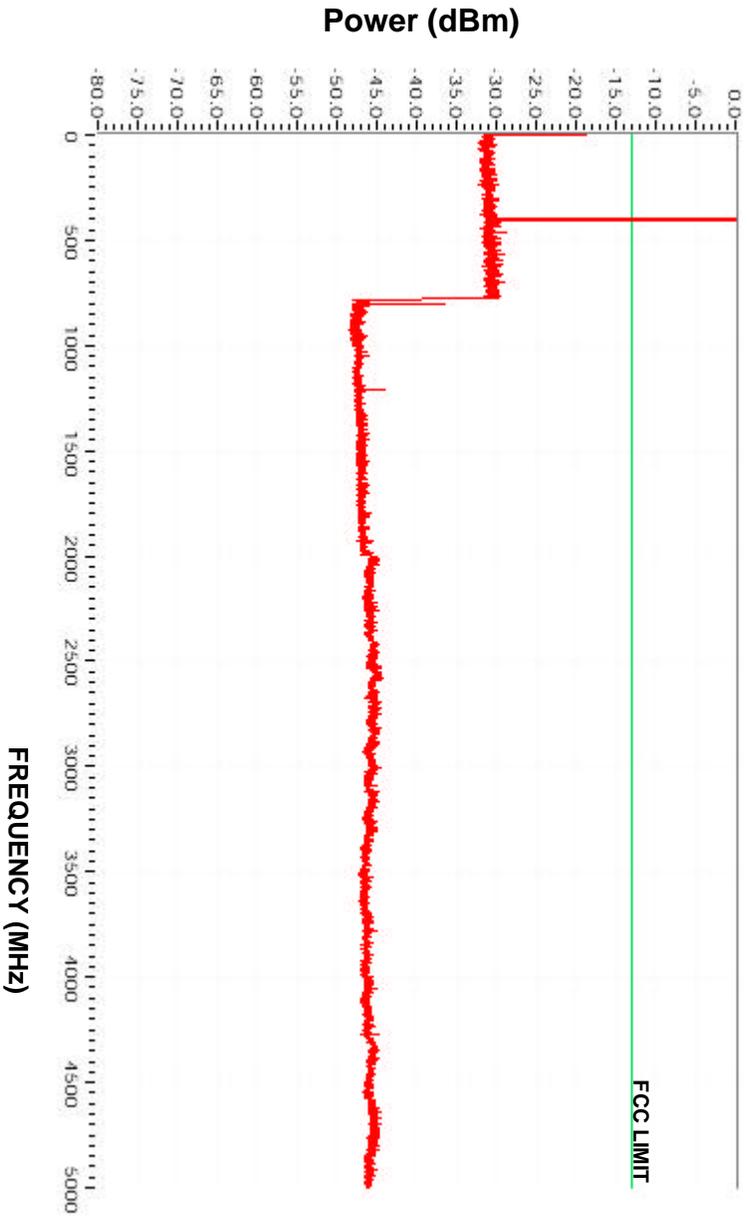
<u>MEASUREMENT</u>	<u>EXHIBIT</u>	<u>NUMBER OF PAGES</u>
Conducted Spurious Emissions	6F	3
Radiated Spurious Emissions	6G	3
Transient Frequency Behavior	6 I	4

# TRANSMITTER CONDUCTED SPURIOUS AND HARMONIC EMISSIONS

Frequency = 403.025 MHz

Channel Spacing = 12.5KHz

Power = 110.0 W

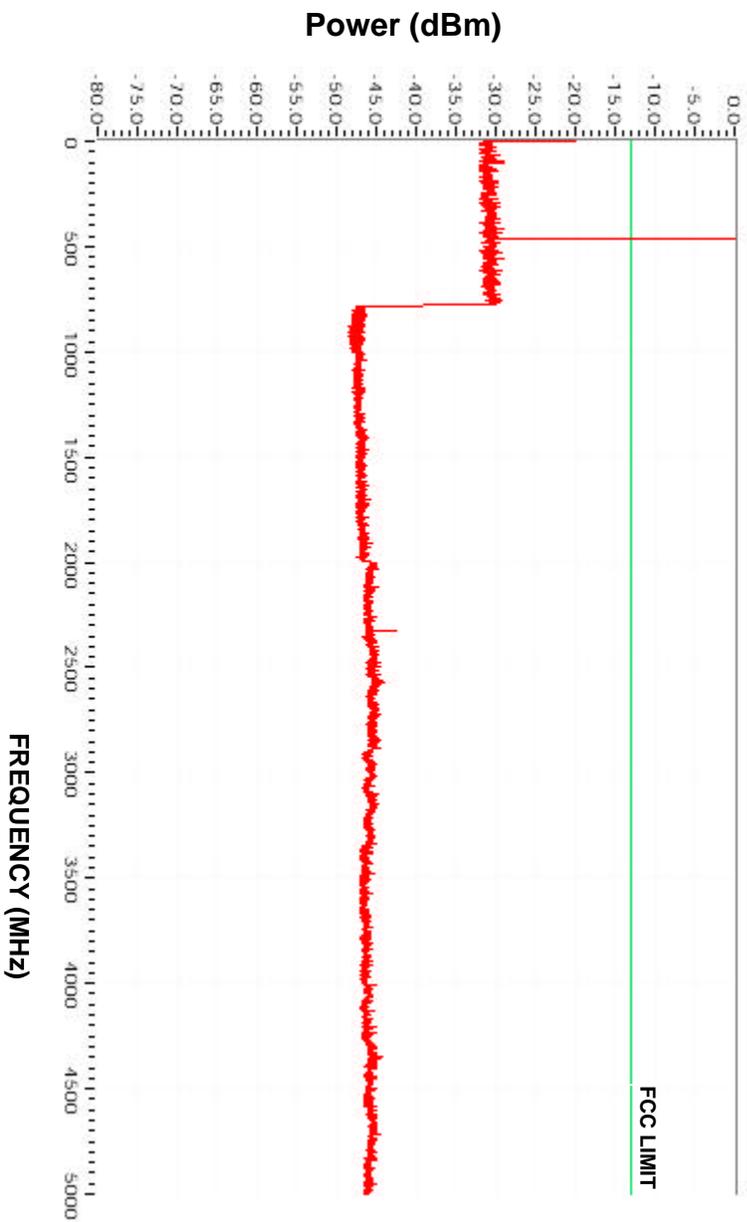


# TRANSMITTER CONDUCTED SPURIOUS AND HARMONIC EMISSIONS

Frequency = 466.025 MHz

Channel Spacing = 12.5KHz

Power = 110.0 W

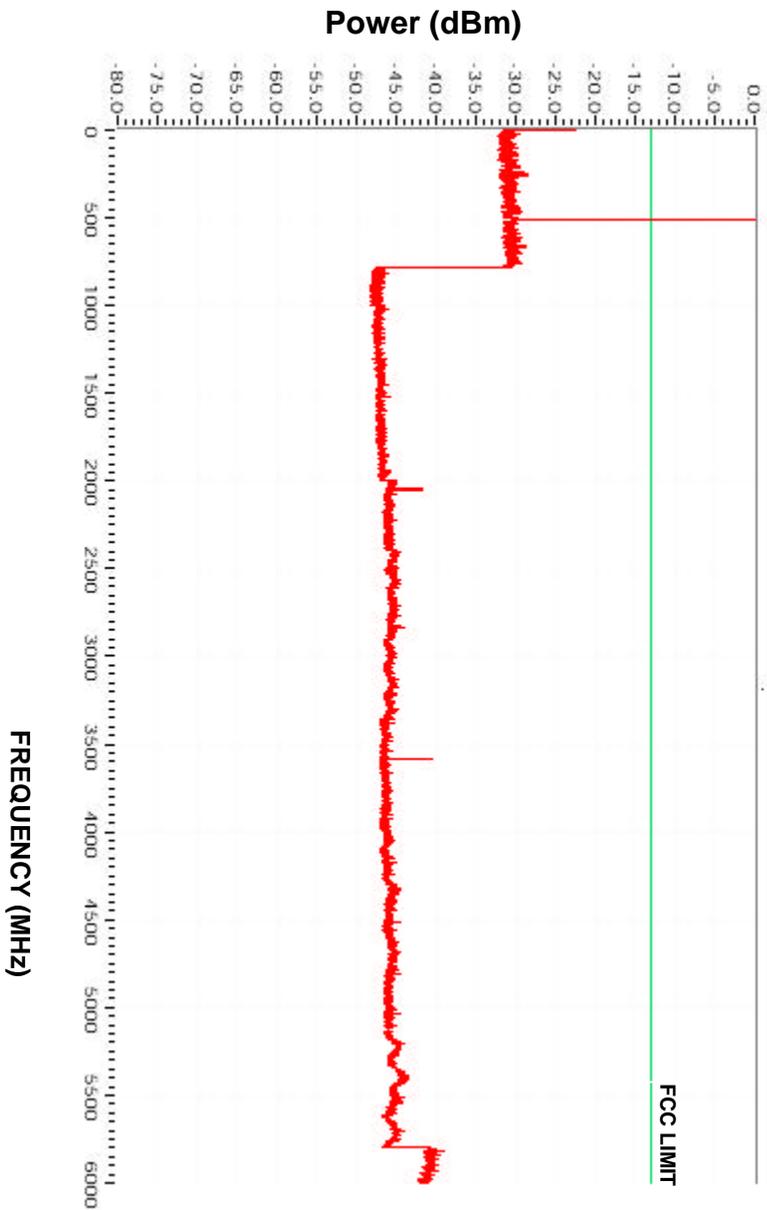


# TRANSMITTER CONDUCTED SPURIOUS AND HARMONIC EMISSIONS

Frequency = 511.950 MHz

Channel Spacing = 12.5KHz

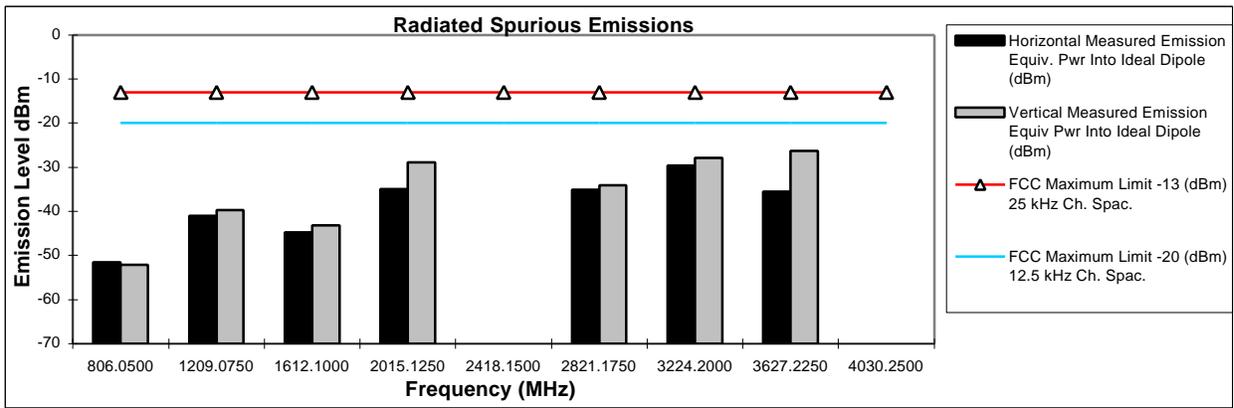
Power = 110.0 W



**Transmitter Radiated Spurious Emissions: Astro mobile UHF R1 110W**

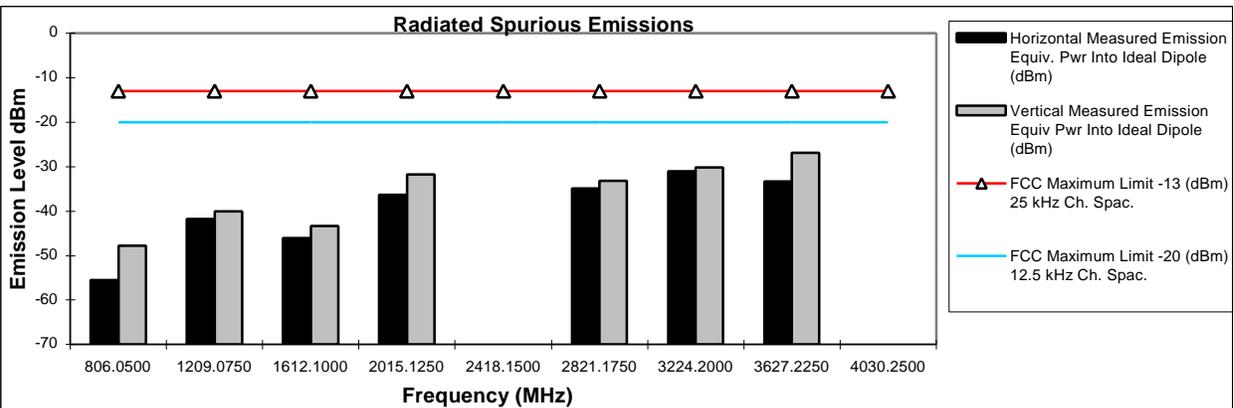
**403.025 MHz - 110 W - 25 kHz CH. Spacing - Analog**

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
806.0500	-13	-20	-51.5	-52.1
1209.0750	-13	-20	-41.0	-39.7
1612.1000	-13	-20	-44.7	-43.1
2015.1250	-13	-20	-34.9	-28.9
2418.1500	-13	-20	*	*
2821.1750	-13	-20	-35.1	-34.0
3224.2000	-13	-20	-29.6	-27.9
3627.2250	-13	-20	-35.5	-26.3
4030.2500	-13	-20	*	*



**403.025 MHz - 110 W - 12.5 kHz CH. Spacing - Digital**

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
806.0500	-13	-20	-55.5	-47.7
1209.0750	-13	-20	-41.8	-40.0
1612.1000	-13	-20	-46.1	-43.3
2015.1250	-13	-20	-36.4	-31.7
2418.1500	-13	-20	*	*
2821.1750	-13	-20	-34.9	-33.2
3224.2000	-13	-20	-31.0	-30.2
3627.2250	-13	-20	-33.3	-26.9
4030.2500	-13	-20	*	*

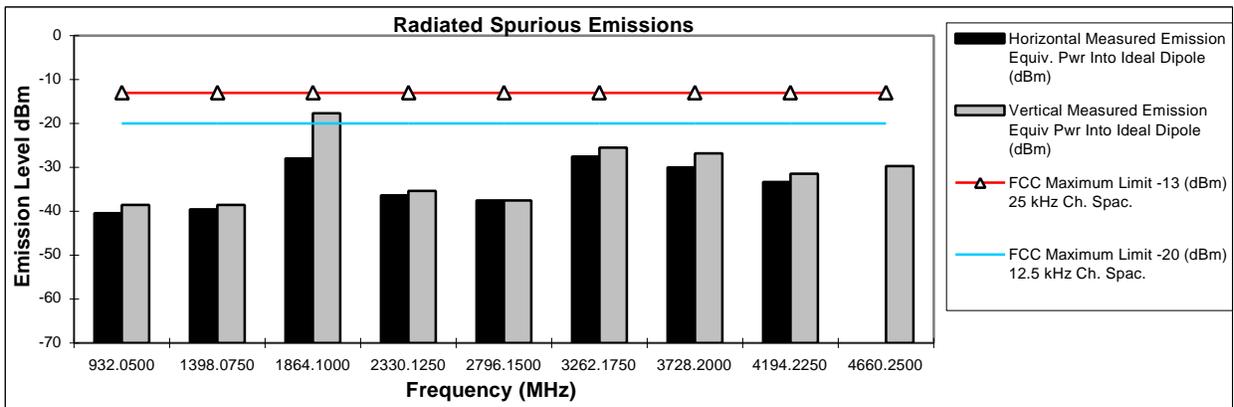


\* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

**Transmitter Radiated Spurious Emissions: Astro mobile UHF R3 110W**

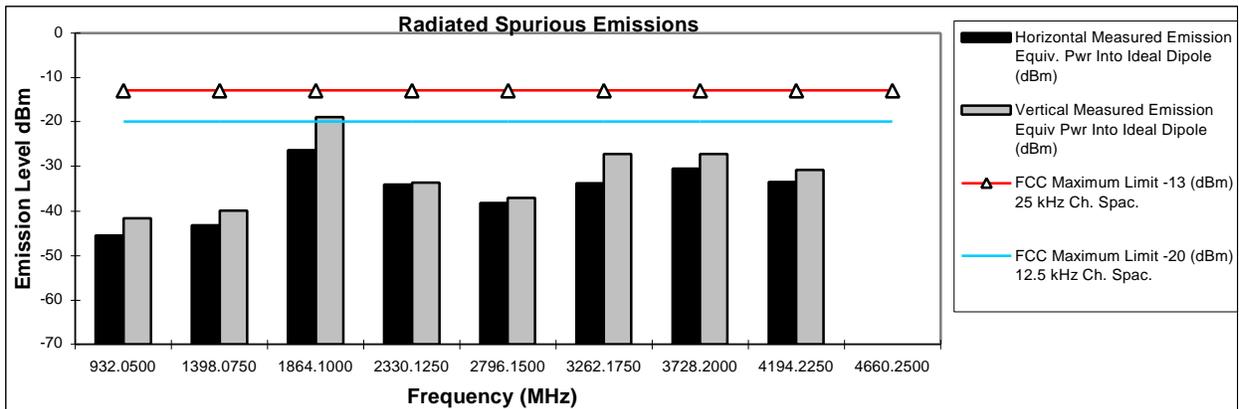
**466.025 MHz - 110 W - 25 kHz CH. Spacing - Analog**

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
932.0500	-13	-20	-40.5	-38.6
1398.0750	-13	-20	-39.6	-38.6
1864.1000	-13	-20	-28.1	-17.7
2330.1250	-13	-20	-36.4	-35.5
2796.1500	-13	-20	-37.6	-37.6
3262.1750	-13	-20	-27.6	-25.6
3728.2000	-13	-20	-30.0	-26.8
4194.2250	-13	-20	-33.4	-31.5
4660.2500	-13	-20	*	-29.7



**466.025 MHz - 110 W - 12.5 kHz CH. Spacing - Digital**

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
932.0500	-13	-20	-45.5	-41.7
1398.0750	-13	-20	-43.2	-39.9
1864.1000	-13	-20	-26.4	-18.9
2330.1250	-13	-20	-34.0	-33.6
2796.1500	-13	-20	-38.2	-37.0
3262.1750	-13	-20	-33.8	-27.2
3728.2000	-13	-20	-30.5	-27.2
4194.2250	-13	-20	-33.5	-30.8
4660.2500	-13	-20	*	*

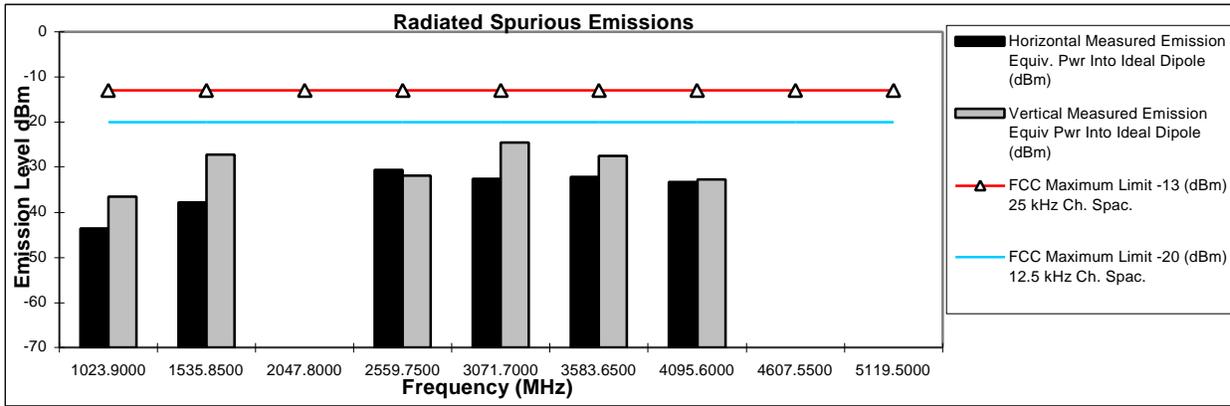


\* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

**Transmitter Radiated Spurious Emissions: Astro mobile UHF R4 78W**

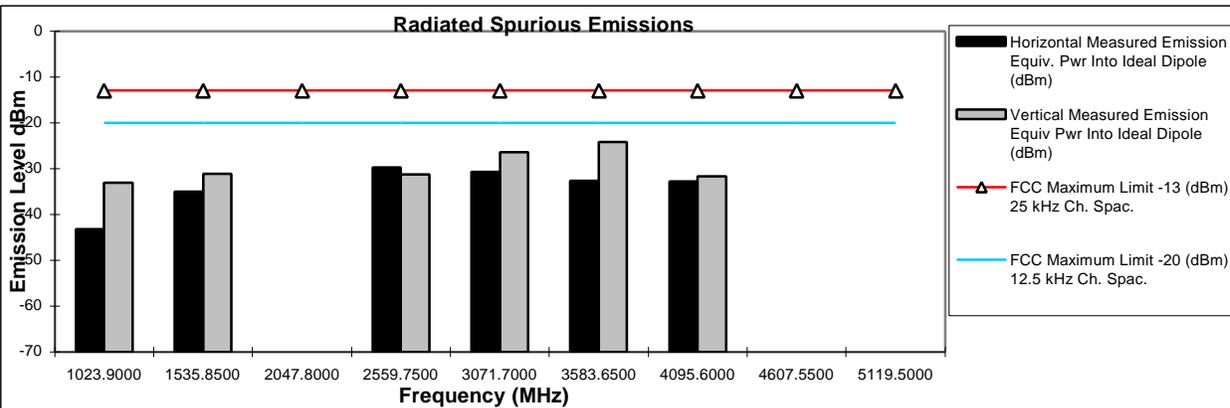
**511.95 MHz - 78 W - 25 kHz CH. Spacing - Analog**

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1023.9000	-13	-20	-43.6	-36.5
1535.8500	-13	-20	-37.9	-27.2
2047.8000	-13	-20	*	*
2559.7500	-13	-20	-30.6	-31.9
3071.7000	-13	-20	-32.6	-24.5
3583.6500	-13	-20	-32.1	-27.5
4095.6000	-13	-20	-33.3	-32.7
4607.5500	-13	-20	*	*
5119.5000	-13	-20	*	*



**511.95 MHz - 78 W - 12.5 kHz CH. Spacing - Digital**

Frequency (MHz)	FCC Maximum Limit -13 (dBm) 25 kHz Ch. Spac.	FCC Maximum Limit -20 (dBm) 12.5 kHz Ch. Spac.	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1023.9000	-13	-20	-43.2	-33.0
1535.8500	-13	-20	-34.9	-31.1
2047.8000	-13	-20	*	*
2559.7500	-13	-20	-29.7	-31.3
3071.7000	-13	-20	-30.7	-26.5
3583.6500	-13	-20	-32.7	-24.3
4095.6000	-13	-20	-32.8	-31.7
4607.5500	-13	-20	*	*
5119.5000	-13	-20	*	*

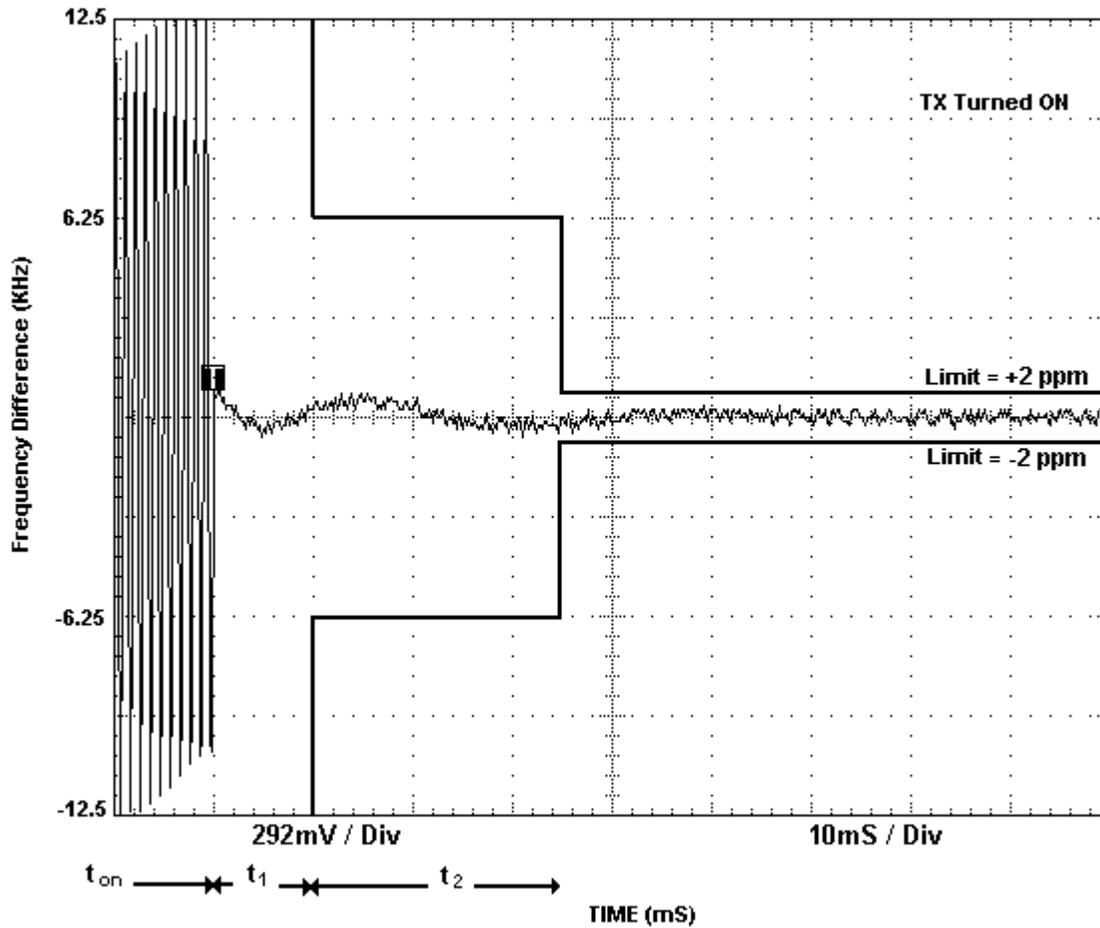


\* Indicates the spurious emission was less than -70dBm or could not be detected due to noise limitations or ambients.

# TRANSMITTER TRANSIENT FREQUENCY BEHAVIOR

Frequency = 466.025 MHz

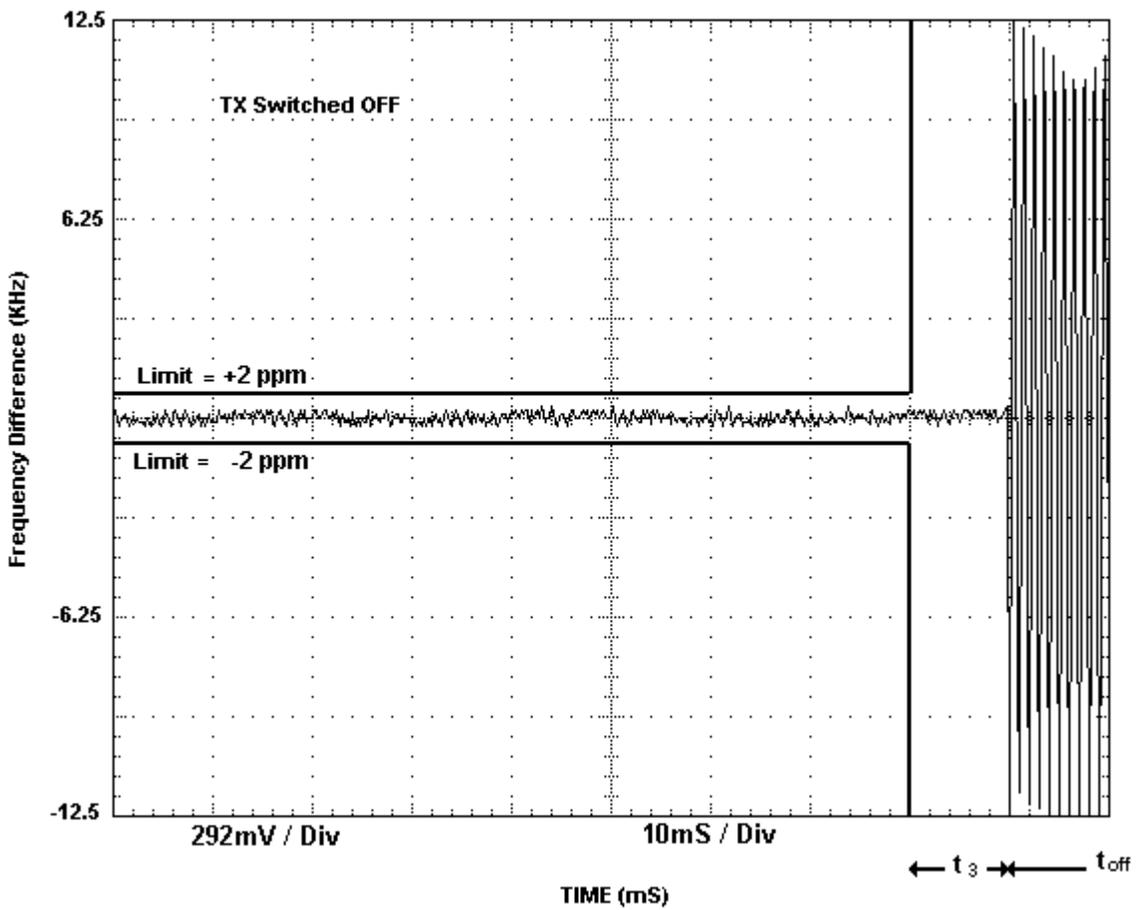
Channel Spacing = 12.5 kHz



# TRANSMITTER TRANSIENT FREQUENCY BEHAVIOR

Frequency = 466.025 MHz

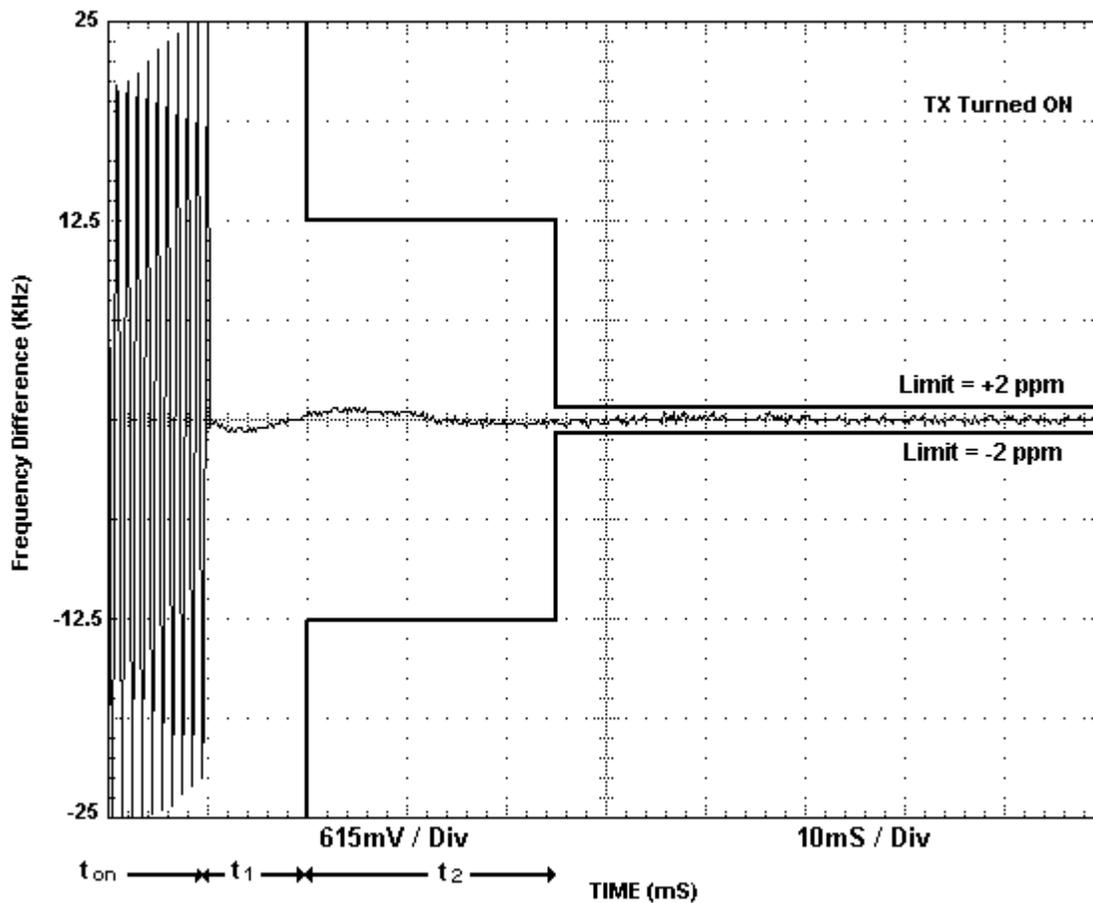
Channel Spacing = 12.5 kHz



# TRANSMITTER TRANSIENT FREQUENCY BEHAVIOR

Frequency = 466.025 MHz

Channel Spacing = 25 kHz



# TRANSMITTER TRANSIENT FREQUENCY BEHAVIOR

Frequency = 466.025 MHz

Channel Spacing = 25 kHz

