

6.4.2 Radiated Spurious Emissions Data -- Pursuant 47 CFR 2.1053, 2.1057

FCC Limits

Radiated spurious emissions shall be attenuated below the maximum level of emission of the carrier frequency in accordance with the following formula:

Spurious attenuation in dB = $43 + 10 \log_{10} (P)$

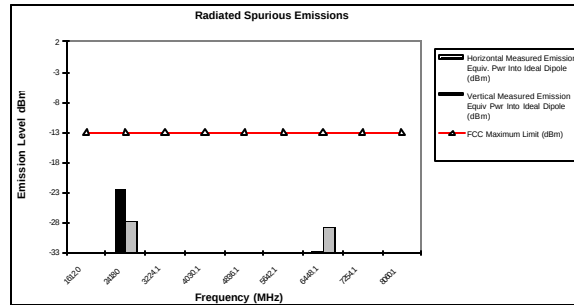
(Thus the effective limit is -13 dBm for any transmitter power level).

NOTE 1: The PA was tested at both maximum and minimum power output settings. The PA was tested at four frequencies within the transmit band.

NOTE 2: Spurious emissions are independent of modulation type. Quad-16QAM was used to obtain the results reported.

Radiated Spurious and Harmonic Emissions**CHANNEL: 806.0125 MHz**

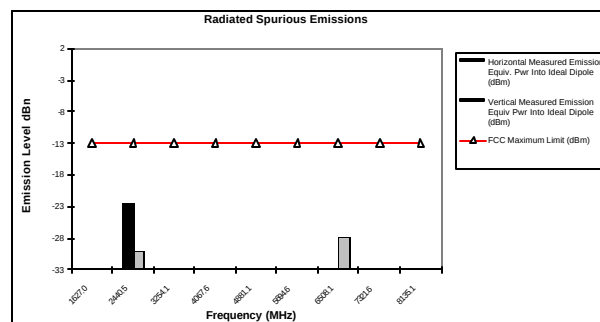
Frequency (MHz)	FCC Maximum Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1612.0	-13	*	*
2418.0	-13	-22.3	-27.7
3224.1	-13	*	*
4030.1	-13	*	*
4836.1	-13	*	*
5642.1	-13	*	*
6448.1	-13	-32.7	-28.7
7254.1	-13	*	*
8060.1	-13	*	*

**Notes:**

- * Indicates the spurious emission could not be detected due to noise limitations or ambients.
- Each emission reported reflects the highest absolute level at each harmonic at maximum power.
- The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.

Radiated Spurious and Harmonic Emissions**CHANNEL: 813.5125 MHz**

Frequency (MHz)	FCC Maximum Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1627.0	-13	*	*
2440.5	-13	-22.5	-30.1
3254.1	-13	*	*
4067.6	-13	*	*
4881.1	-13	*	*
5694.6	-13	*	*
6508.1	-13	-32.8	-27.9
7321.6	-13	*	*
8135.1	-13	*	*

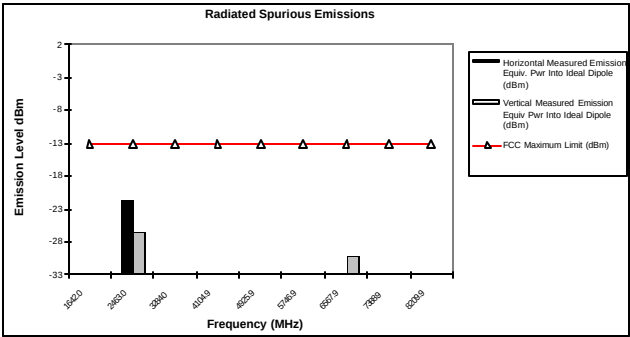
**Notes:**

- * Indicates the spurious emission could not be detected due to noise limitations or ambients.
- Each emission reported reflects the highest absolute level at each harmonic at maximum power.
- The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.

Figure 6.4.2-1: Radiated Spurious Emissions at 806.0125 and 813.5125 MHz (High Power Setting)

Radiated Spurious and Harmonic Emissions
CHANNEL: 820.9875 MHz

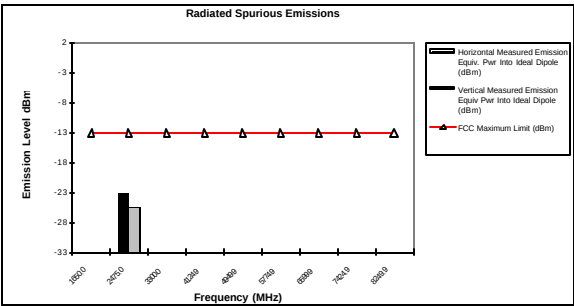
Frequency (MHz)	FCC Maximum Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1642.0	-13	*	*
2463.0	-13	-21.6	-26.6
3284.0	-13	*	*
4104.9	-13	*	*
4925.9	-13	*	*
5746.9	-13	*	*
6567.9	-13	*	-30.2
7388.9	-13	*	*
8209.9	-13	*	*



- Notes:
- 1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
 - 2. Each emission reported reflects the highest absolute level at each harmonic at maximum power.
 - 3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.

Radiated Spurious and Harmonic Emissions
CHANNEL: 824.9875 MHz

Frequency (MHz)	FCC Maximum Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1650.0	-13	*	*
2475.0	-13	-23.0	-25.4
3300.0	-13	*	*
4124.9	-13	*	*
4949.9	-13	*	*
5774.9	-13	*	*
6599.9	-13	*	*
7424.9	-13	*	*
8249.9	-13	*	*



- Notes:
- 1. * Indicates the spurious emission could not be detected due to noise limitations or ambients.
 - 2. Each emission reported reflects the highest absolute level at each harmonic at maximum power.
 - 3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.

Figure 6.4.2-2: Radiated Spurious Emissions at 820.9875 and 824.9875 MHz (High Power Setting)

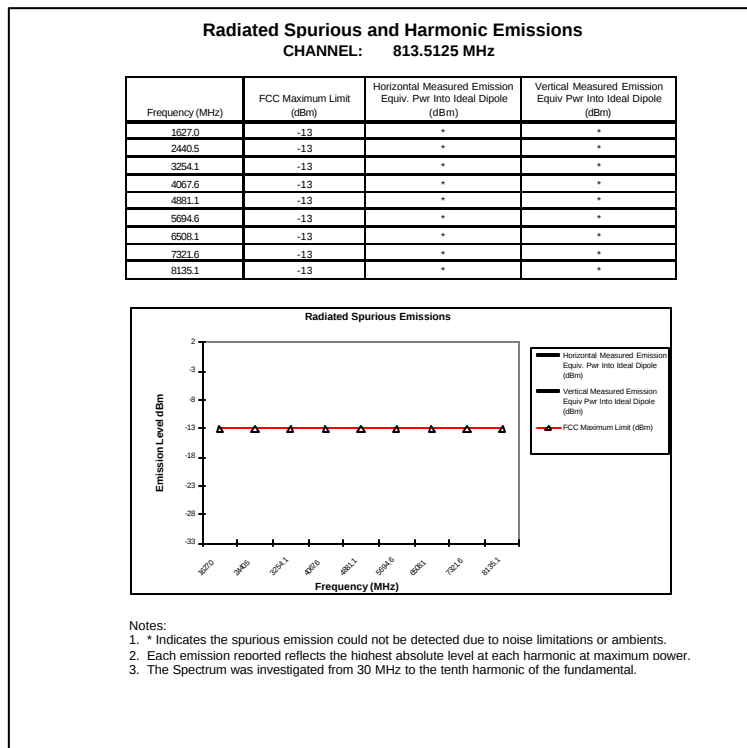
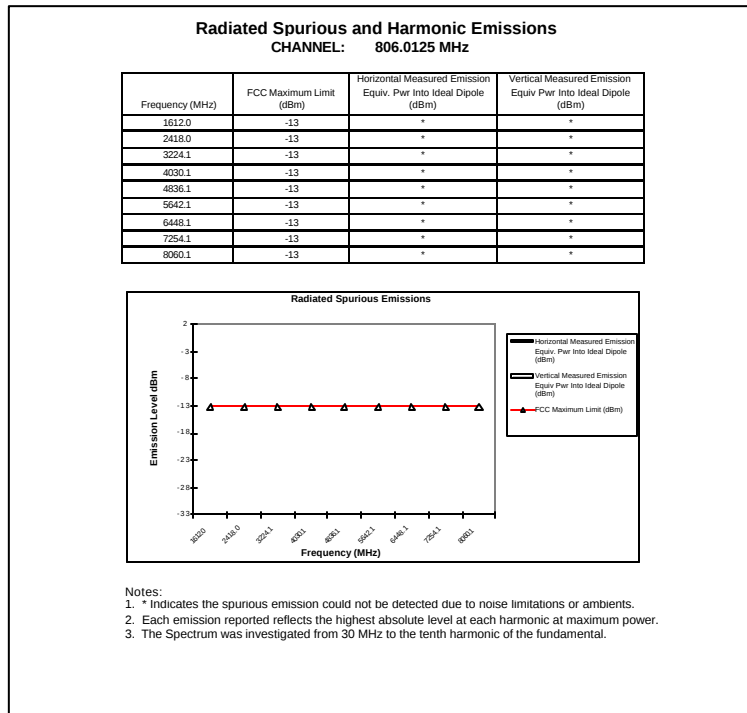
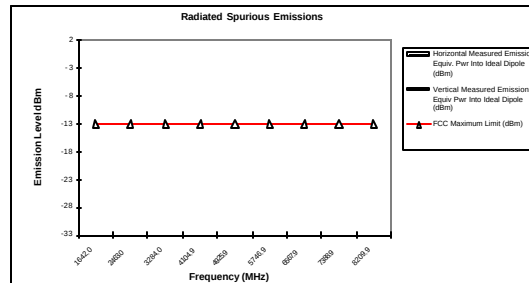


Figure 6.4.2-3: Radiated Spurious Emissions at 806.0125 and 813.5125 MHz (Low Power Setting)

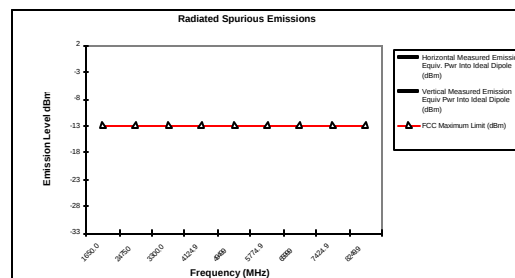
CHANNEL: 820.9875 MHz

Frequency (MHz)	FCC Maximum Limit (dBm)	Horizontal Measured Emission Equip. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equip Pwr Into Ideal Dipole (dBm)
1642.0	-13	*	*
2463.0	-13	*	*
3284.0	-13	*	*
4104.9	-13	*	*
4925.9	-13	*	*
5746.9	-13	*	*
6567.9	-13	*	*
7388.9	-13	*	*
8209.9	-13	*	*



CHANNEL: 824.9875 MHz

Frequency (MHz)	FCC Maximum Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1650.0	-13	*	*
2475.0	-13	*	*
3300.0	-13	*	*
4124.9	-13	*	*
4949.9	-13	*	*
5774.9	-13	*	*
6599.9	-13	*	*
7424.9	-13	*	*
8249.9	-13	*	*



Motorola Boynton Beach EMC Lab – Test Performed by: Bill Quigley
FCC Registration: 100000 / Industry of Canada: IC3908

4/01/2002