

### 6.4.1 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 =  $43 + 10 \log_{10} (P)$

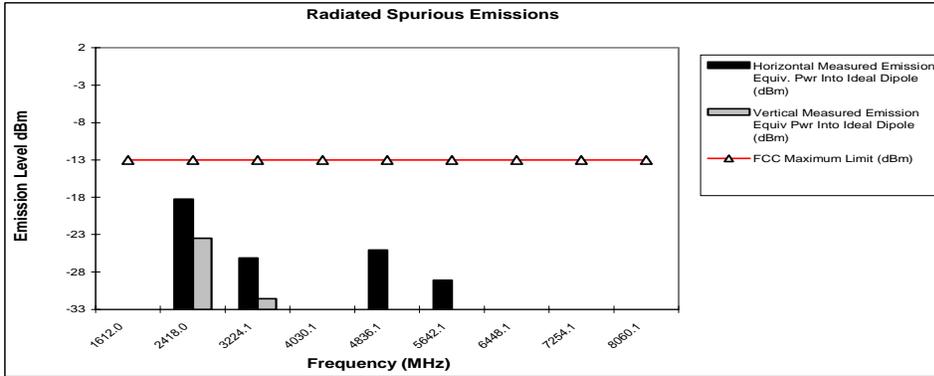
(Thus the effective limit is -13 dBm for any transmitter power level).

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.

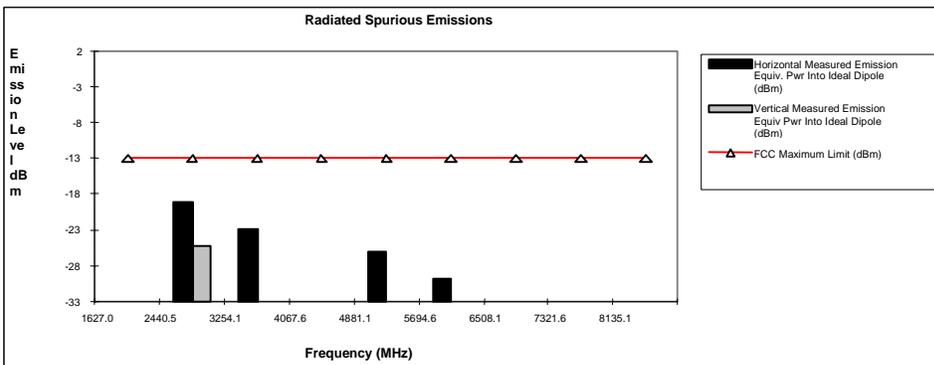
**Radiated Spurious and Harmonic Emissions**  
**CHANNEL: 806.0125 MHz**

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	-18.2	-23.5
3224.1	-13	-26.1	-31.5
4030.1	-13	*	*
4836.1	-13	-25.1	*
5642.1	-13	-29.1	*
6448.1	-13	*	*
7254.1	-13	*	*
8060.1	-13	*	*



**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	-19.1	-25.2
3254.1	-13	-22.9	*
4067.6	-13	*	*
4881.1	-13	-26.0	*
5694.6	-13	-29.8	*
6508.1	-13	*	*
7321.6	-13	*	*
8135.1	-13	*	*

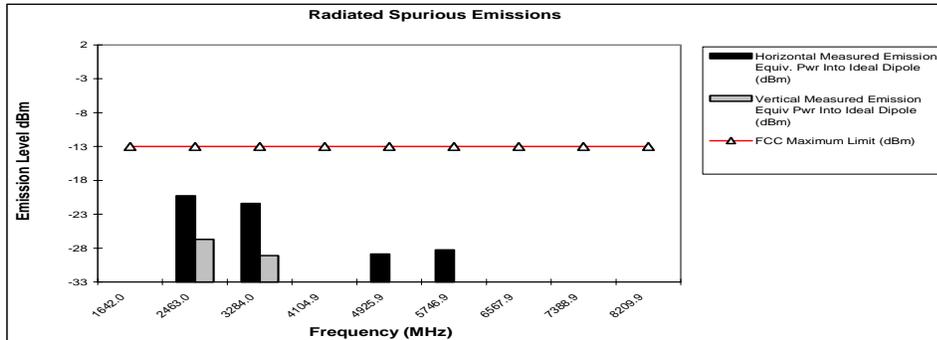


- Notes:
1. \* Indicates the spurious emission was below -33 dBm.
  2. Each emission reported reflects the highest absolute level at each harmonic at maximum power.
  3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.

**Figure 6.4.1-1: Radiated Spurious Emissions at 806.0125 and 813.5625 MHz (High Power Setting, Primary U500)**

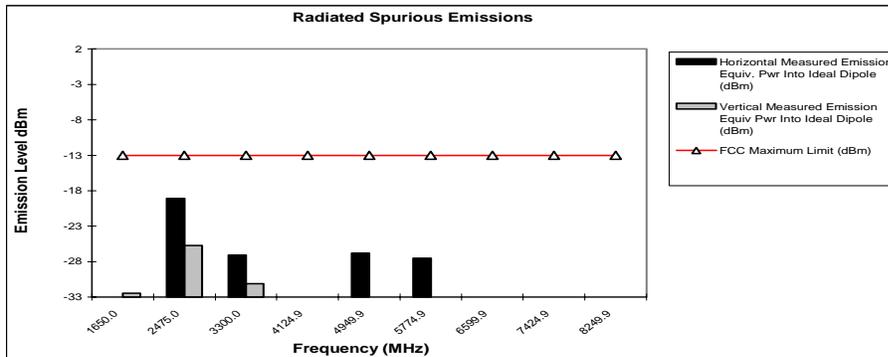
**Radiated Spurious and Harmonic Emissions**  
**CHANNEL: 820.9875 MHz**

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	-20.3	-26.7
3284.0	-13	-21.4	-29.1
4104.9	-13	*	*
4925.9	-13	-28.9	*
5746.9	-13	-28.3	*
6567.9	-13	*	*
7388.9	-13	*	*
8209.9	-13	*	*



**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	*	-32.5
2475.0	-13	-19.1	-25.7
3300.0	-13	-27.1	-31.1
4124.9	-13	*	*
4949.9	-13	-26.8	*
5774.9	-13	-27.5	*
6599.9	-13	*	*
7424.9	-13	*	*
8249.9	-13	*	*



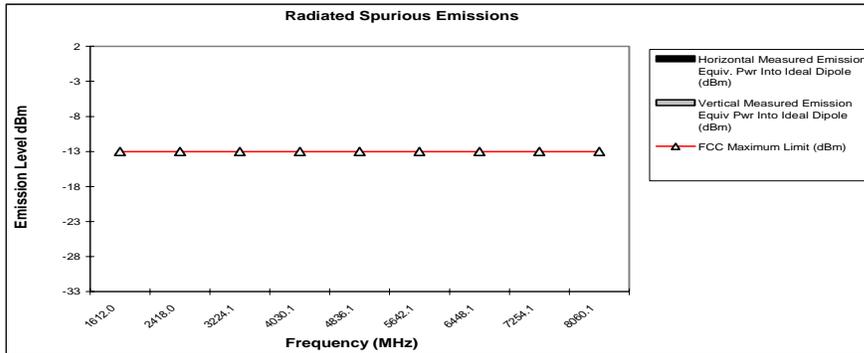
Notes:

1. \* Indicates the spurious emission was below -33 dBm.
2. Each emission reported reflects the highest absolute level at each harmonic at maximum pow
3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.

**Figure 6.4.1-2: Radiated Spurious Emissions at 820.9875 and 824.9875 MHz (High Power Setting, Primary U500)**

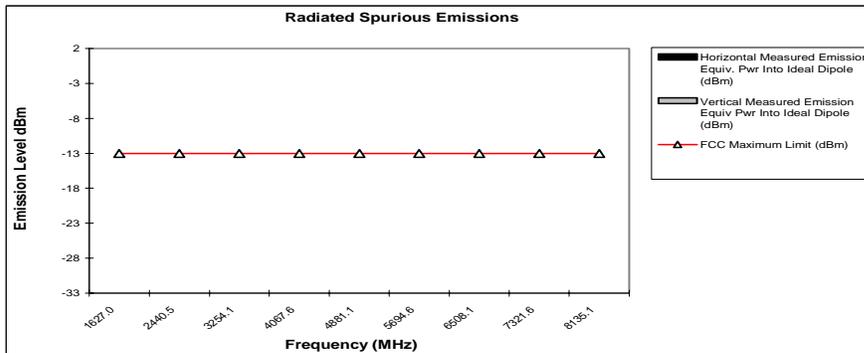
**Radiated Spurious and Harmonic Emissions**  
**CHANNEL: 806.0125 MHz**

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	*	*
3224.1	-13	*	*
4030.1	-13	*	*
4836.1	-13	*	*
5642.1	-13	*	*
6448.1	-13	*	*
7254.1	-13	*	*
8060.1	-13	*	*



**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	*	*
3254.1	-13	*	*
4067.6	-13	*	*
4881.1	-13	*	*
5694.6	-13	*	*
6508.1	-13	*	*
7321.6	-13	*	*
8135.1	-13	*	*

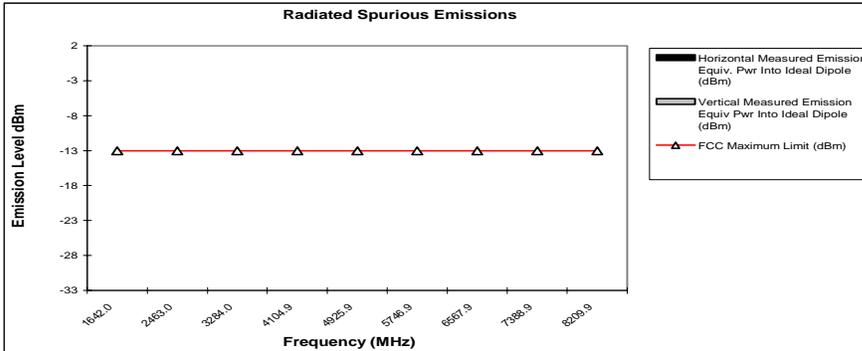


- Notes:
1. \* Indicates the spurious emission was below -33 dBm.
  2. Each emission reported reflects the highest absolute level at each harmonic at maximum pow
  3. The Spectrum was investigated from 30 MHz to the tenth harmonic of the fundamental.

**Figure 6.4.1-3: Radiated Spurious Emissions at 806.0125 and 813.5625 MHz (Low Power Setting, Primary U500)**

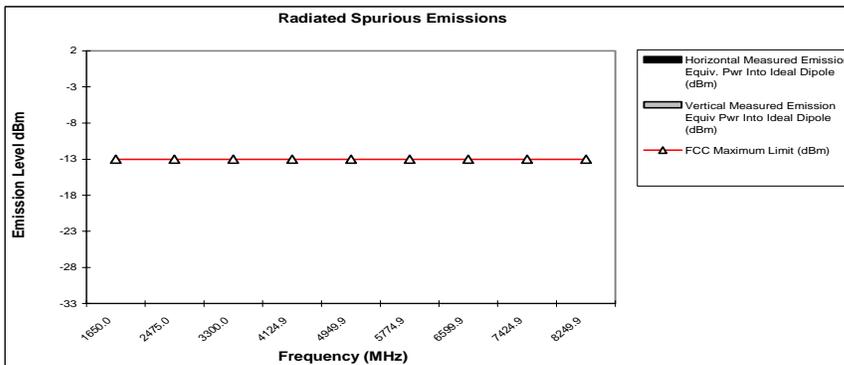
**Radiated Spurious and Harmonic Emissions  
CHANNEL: 820.9875 MHz**

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	*	*
3284.0	-13	*	*
4104.9	-13	*	*
4925.9	-13	*	*
5746.9	-13	*	*
6567.9	-13	*	*
7388.9	-13	*	*
8209.9	-13	*	*



**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	*	*
3300.0	-13	*	*
4124.9	-13	*	*
4949.9	-13	*	*
5774.9	-13	*	*
6599.9	-13	*	*
7424.9	-13	*	*
8249.9	-13	*	*



Notes:

- \* Indicates the spurious emission was below -33 dBm .
- 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 6.4.1-4: Radiated Spurious Emissions at 820.9875 and 824.9875 MHz (Low Power Setting, Primary U500)**