

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).

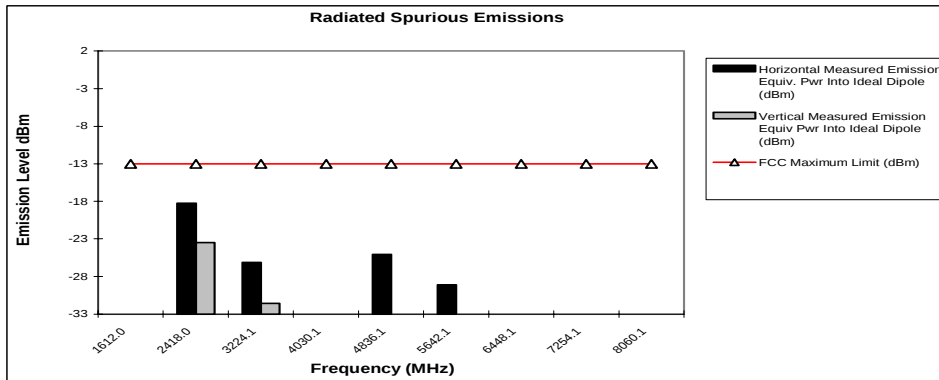
NOTE 1: The PA was tested at both maximum and minimum power output settings. The PA was tested at four frequencies within the transmit band.

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

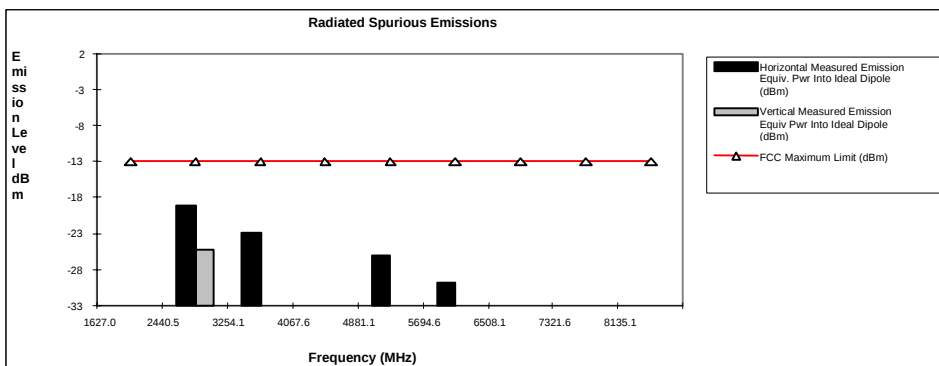
Frequency (MHz)	FCC Maximum Limit (dBm)	Horizontal Measured Emission Equiv. Pwr Into Ideal Dipole (dBm)	Vertical Measured Emission Equiv Pwr Into Ideal Dipole (dBm)
1612.0	-13	*	*
2418.0	-13	-18.2	-23.5
3224.1	-13	-26.1	-31.5
4030.1	-13	*	*
4836.1	-13	-25.1	*
5642.1	-13	-29.1	*
6448.1	-13	*	*
7254.1	-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	*	*



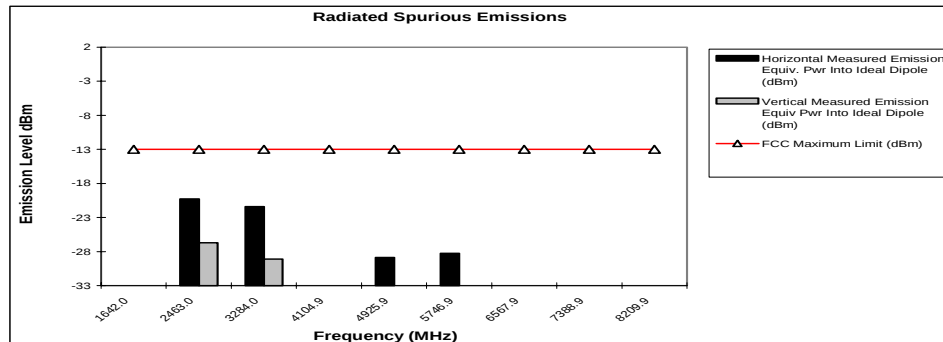
Notes:

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)

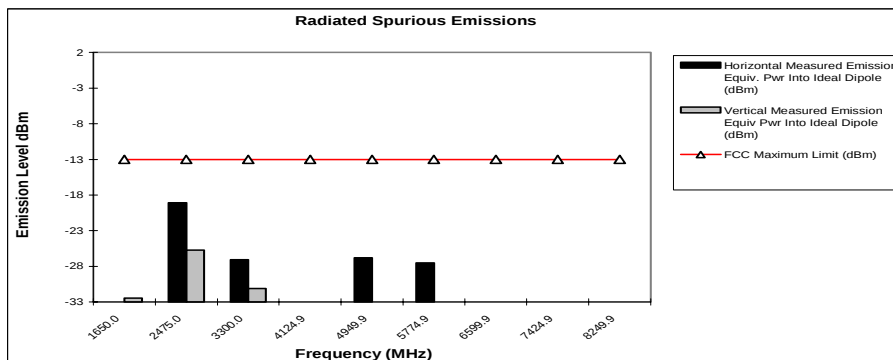
Radiated Spurious and Harmonic Emissions CHANNEL: 820.9875 MHz

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	*	*



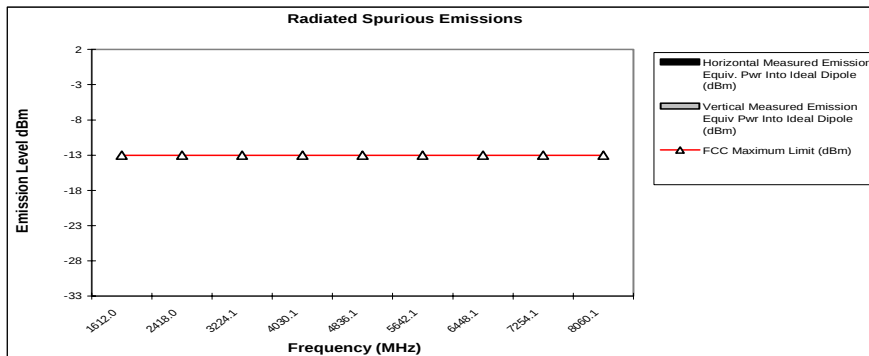
Notes:

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

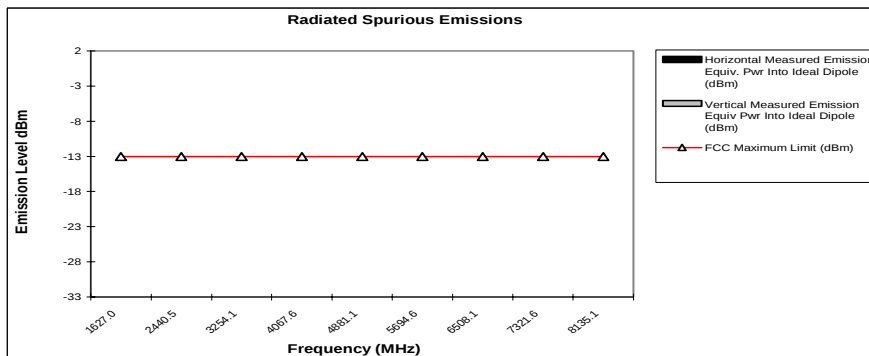
Figure 6.4.1-2: Radiated Spurious Emissions at 820.9875 and 824.9875 MHz (High Power Setting, Primary U500)

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	*	*

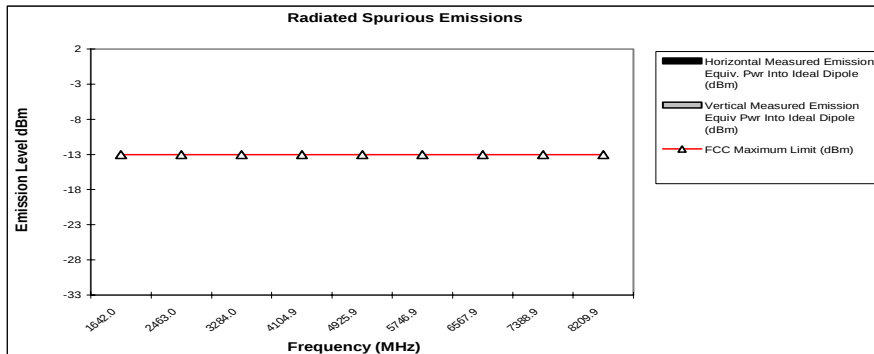
**Notes:**

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)

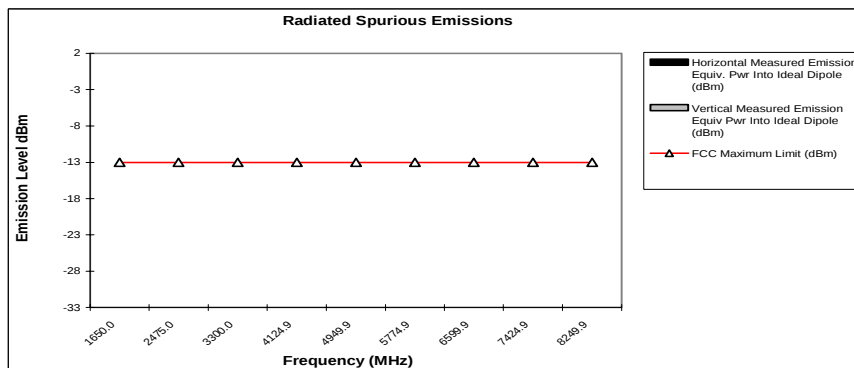
Radiated Spurious and Harmonic Emissions CHANNEL: 820.9875 MHz

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)