# 6.4. Radiated Spurious Emissions -- Pursuant 47 CFR 2.1053, 2.1057, 90.210(g)(3), 90.691(a)(2)

# **FCC Limits**

-Per 90.210(g)(3) and 90.691(a)(2), 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: Spurious emissions are dependent on the linearity of the Power Amplifier and are independent of modulation type or TDM interleaving. Thus emissions were tested with the radio set to Quad-16QAM at both maximum and minimum radio output power settings.
- NOTE 2: An asterisk (\*) in the data indicates the spurious emission was less than -33 dBm or could not be detected due to noise limitations or ambients.
- NOTE 3: Spurious emission levels were measured with the non-detachable antenna mounted on the radio product, as in intended use. Measurement setup is described in Exhibit 7.3.

## Transmitter Radiated Spurious Emissions:

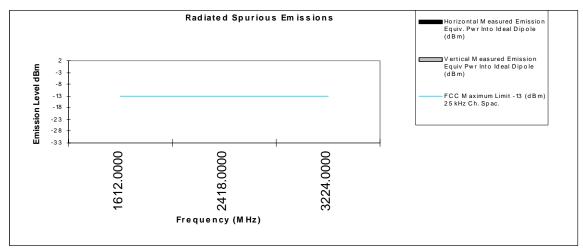
806 MHz

Channel Spacing 25KHz

Battery:

# NNTN4930A

 *************					
			Horizontal Measured Emission	Vertical Measured Emission	
	Frequency	FCC Maximum Limit -13	Equiv. Pw r Into Ideal Dipole	Equiv Pw r Into Ideal Dipole	
Spur	(MHz)	(dBm) 25 kHz Ch. Spac.	(dBm)	(dBm)	
2XFund	1612.0000	-13	-	-33.90	
3XFund	2418.0000	-13	-	*	
4XFund	3224.0000	-13	*	-	



- \* Indicates the spurious emission was less than -33dBm or could not be detected due to noise limitations or ambients.
- Indicates that the test condition has been satisfied at another frequncy within the same  ${\sf Band}$  .

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# Transmitter Radiated Spurious Emissions:

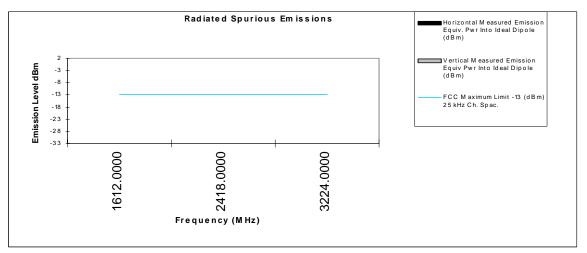
806 MHz

Channel Spacing 25KHz

Battery:

#### NNTN5195A

			Horizontal Measured Emission	Vertical Measured Emission
	Frequency	FCC Maximum Limit -13	Equiv. Pw r Into Ideal Dipole	Equiv Pw r Into Ideal Dipole
Spur	(MHz)	(dBm) 25 kHz Ch. Spac.	(dBm)	(dBm)
2XFund	1612.0000	-13	-	*
3XFund	2418.0000	-13	-	*
4XFund	3224 0000	-13	_	*



<sup>\*</sup> Indicates the spurious emission was less than -33dBm or could not be detected due to noise limitations or ambients.

# Transmitter Radiated Spurious Emissions:

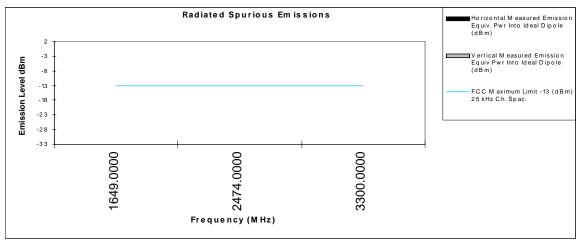
825 MHz

Channel Spacing 25KHz

Battery:

## NNTN4930A

	Frequency	FCC Maximum Limit -13	Horizontal Measured Emission Equiv. Pw r Into Ideal Dipole	Vertical Measured Emission Equiv Pwr Into Ideal Dipole
Spur	(MHz)	(dBm) 25 kHz Ch. Spac.	(dBm)	(dBm)
2XFund	1649.0000	-13	-	-36.50
3XFund	2474.0000	-13	*	-
4XFund	3300.0000	-13	*	-



- \* Indicates the spurious em ission was less than -33dBm or could not be detected due to noise limitations or ambients.
- Indicates that the test condition has been satisfied at another frequncy within the same  ${\tt Band}$  .

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#### Transmitter Radiated Spurious Emissions:

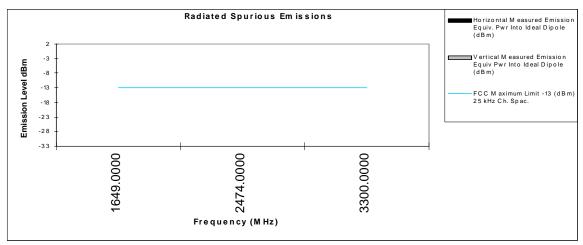
825 MHz

Channel Spacing 25KHz

Battery:

n	g	25KHz	
	N	NNTN5195A	

			Horizontal Measured Emission	Vertical Measured Emission
	Frequency	FCC Maximum Limit -13	Equiv. Pw r Into Ideal Dipole	Equiv Pw r Into Ideal Dipole
Spur	(MHz)	(dBm) 25 kHz Ch. Spac.	(dBm)	(dBm)
2XFund	1649.0000	-13	*	-
3XFund	2474.0000	-13	*	-
4XFund	3300.0000	-13	*	-



- \* Indicates the spurious emission was less than -33dBm or could not be detected due to noise limitations or ambients.
- Indicates that the test condition has been satisfied at another frequncy within the same Band.

Transmitter Radiated Spurious Emissions:

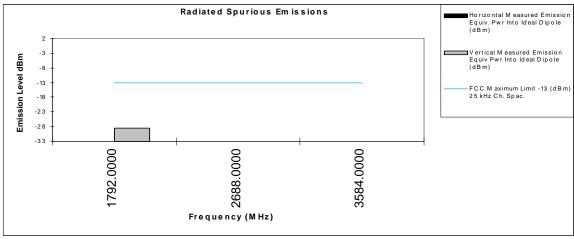
896 MHz

Channel Spacing 25KHz

Battery:

## NNTN4930A

	Frequency	FCC Maximum Limit -13	Horizontal Measured Emission Equiv. Pw r Into Ideal Dipole	Vertical Measured Emission Equiv Pw r Into Ideal Dipole
Spur	(MHz)	(dBm) 25 kHz Ch. Spac.	(dBm)	(dBm)
2XFund	1792.0000	-13	-	-28.40
3XFund	2688.0000	-13	-	*
4XFund	3584.0000	-13	*	-



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- Indicates that the test condition has been satisfied at another frequncy within the same Band .

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#### Transmitter Radiated Spurious Emissions:

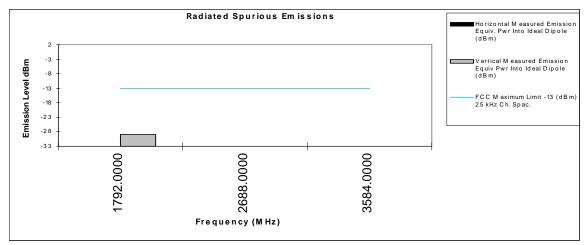
896 MHz

Channel Spacing 25KHz

Battery:

## NNTN5195A

Γ				Horizontal Measured Emission	Vertical Measured Emission
		Frequency	FCC Maximum Limit -13	Equiv. Pw r Into Ideal Dipole	Equiv Pw r Into Ideal Dipole
L	Spur	(MHz)	(dBm) 25 kHz Ch. Spac.	(dBm)	(dBm)
	2XFund	1792.0000	-13	-	-28.90
	3XFund	2688.0000	-13	-	*
	4XFund	3584.0000	-13	-	*



- \* Indicates the spurious emission was less than -33dBm or could not be detected due to noise limitations or ambients.
- Indicates that the test condition has been satisfied at another frequncy within the same Band .

# Transmitter Radiated Spurious Emissions:

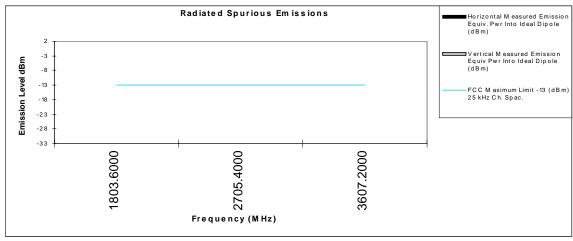
901.8 MHz

Channel Spacing 25KHz

Battery:

#### NNTN4930A

			Horizontal Measured Emission	Vertical Measured Emission
	Frequency	FCC Maximum Limit -13	Equiv. Pw r Into Ideal Dipole	Equiv Pw r Into Ideal Dipole
Spur	(MHz)	(dBm) 25 kHz Ch. Spac.	(dBm)	(dBm)
2XFund	1803.6000	-13	-	*
3XFund	2705.4000	-13	*	-
4XFund	3607.2000	-13	-	*



- \* Indicates the spurious emission was less than -33dBm or could not be detected due to noise limitations or ambients.
- Indicates that the test condition has been satisfied at another frequncy within the same Band .

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# Transmitter Radiated Spurious Emissions:

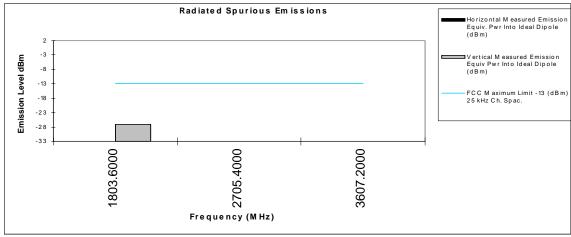
901.8 MHz

Channel Spacing 25KHz

Battery:

# NNTN5195A

			Horizontal Measured Emission	Vertical Measured Emission
	Frequency	FCC Maximum Limit -13	Equiv. Pw r Into Ideal Dipole	Equiv Pw r Into Ideal Dipole
Spur	(MHz)	(dBm) 25 kHz Ch. Spac.	(dBm)	(dBm)
2XFund	1803.6000	-13	-	-27.10
3XFund	2705.4000	-13	*	-
4XFund	3607.2000	-13	-	*



<sup>†</sup> Indicates the spurious em ission was less than -33dBm or could not be detected due to noise limitations or ambients.

Indicates that the test condition has been satisfied at another frequncy within the same Band.