

RE: FCC ID: PHX-RSU2400A

1.) The unit needs to be tested as a system, computer, monitor and printer. Please review.

Reply: The NextNet Wireless modem was tested with a laptop computer that contained a keyboard and display, an external serial port mouse, a USB memory stick reader, and an Ethernet router. The NextNet Wireless modem is connected to the router via the Ethernet port on the wireless modem. The NextNet Wireless modem and power supply is only available as an external peripheral device for use in a data transmission network or an accessory to a personal computer and as such has been tested to ensure compliance to the FCC rules as a stand alone device.



2.) Can both transmitters operate simultaneously? If the answer is yes then you will have to perform an intermod test. The radiated spurious emissions will have to show peak value.

Reply: No, the NextNet Wireless modem contains only one transmitter and is only capable of transmitting on one channel at a time.

3.) Users Manual needs the Part 15.21 warning statement. (See below)

FCC Warning: Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Reply: The user's manual already contains wording that encompasses the intent of 15.21 and can be found in "Exhibit 8 Installation and Operating Manual" on manual page 20. This information is also included in "Exhibit 14 Regulatory Information Sheet". The wording contained in Exhibit 8 and Exhibit 14 is: "Note: Modification of this device may void the user's authority to operate the equipment."

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4.) The FCC interference statement must replace the 20 cm statement on the DoC Label. Should read:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Reply: This information has not been included in its entirety on the product due to space limitations as allowed by the rules in 15.19(a)(5). The empty space to the right of the DOC information on the black label is used for “other” regulatory compliance information. This statement is included in its entirety in the Installation and Operating Manual on manual page 19, and is also included in the Regulatory Information Sheet included in this filing as Exhibit 14. It is the understanding of NextNet Wireless that the “20 cm statement” or radiation hazard information, as defined in 47CFR1.1307, is required to be displayed on the product.

5.) The test report needs to show powerline conducted measurements remember to test as part of a system and provide test setup photos. Please revise test report.

Reply: Power line conducted measurements are shown in Exhibit 6A Test Report on pages 88-91. The test setup photograph of the power line measurement is shown on page 83 of Exhibit 6A Test report. The power line conducted measurement is only performed on the NextNet Wireless modem to verify that it does not exceed the FCC limits.

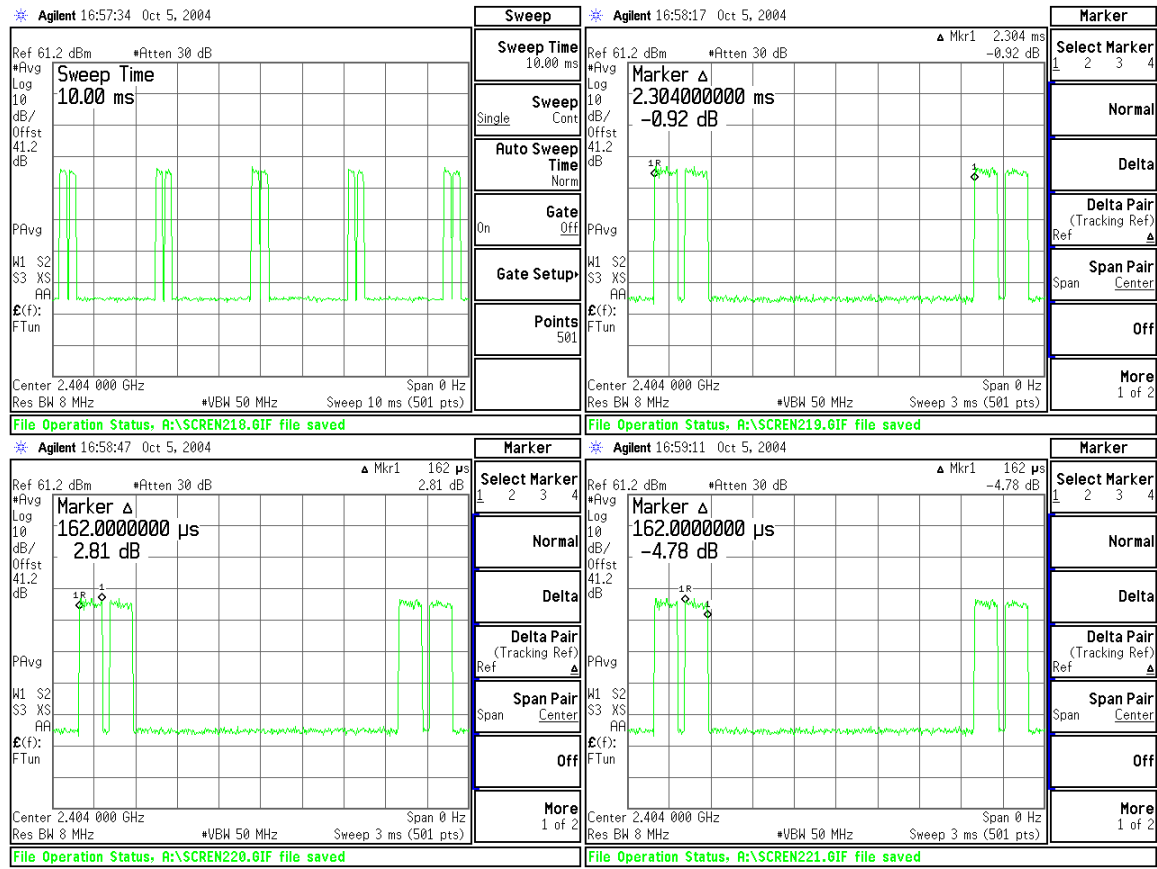
6.) Duty Cycle plots need to be shown confirming 14.29% please show time period and bursts. If the length of the burst is variable please show worst case with time plot.

Reply: The duty cycle of the NextNet Wireless modem is limited to a maximum 14.29 % transmit duty cycle.

The plots below show a long time sweep of a transmitter enabled at the maximum duty cycle. The time interval between repetition rate is shown to be: 2.304 msec, the time of the first pulse is shown to be 162 usec and the time of the second pulse is shown to be 162 usec. This would yield a transmit duty cycle of:

$$\text{TX duty cycle} = \text{time on} / \text{total time} = (162 \text{ usec} + 162 \text{ usec}) / 2.304 \text{ msec} = 324 \times 10^{-6} \text{ sec} / 2.304 \times 10^{-3} \text{ sec}$$
$$\text{TX duty cycle} = 0.140625 \text{ or } 14.0625 \%$$

Additional information timing information is presented in “Exhibit 12 Operational Description_frequency stability_tuneup”.



7.) Is this unit to be used with WiFi MDS system?

No.

8.) Please show comments on rational for use in the broadcast band.

Reply: The FCC has allowed two way transmissions in the MMDS/ITFS frequency spectrum since 1998. NextNet Wireless has been certifying and shipping products in the 2.5-2.686 GHz band since 2001. Previous products in the broadcast band that have been certified by the FCC and American TCB:

| | |
|----------------|----------------|
| PHX-MMDS-CPE1 | PHX-MMDS-CPE2 |
| PHX-MMDS-CPE3 | PHX-MMDS-CPE4 |
| PHX-MMDS-CPE5 | PHX-MMDS-CPE6 |
| PHX-MMDS-BASE1 | PHX-MMDS-BASE2 |
| PHX-RBTS2500 | |

Thank you for your attention to these matters.

Regards,
Tim Blom
Principal Engineer
NextNet Wireless, Inc.

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