RE: FCC ID: PHX-RSU2400A

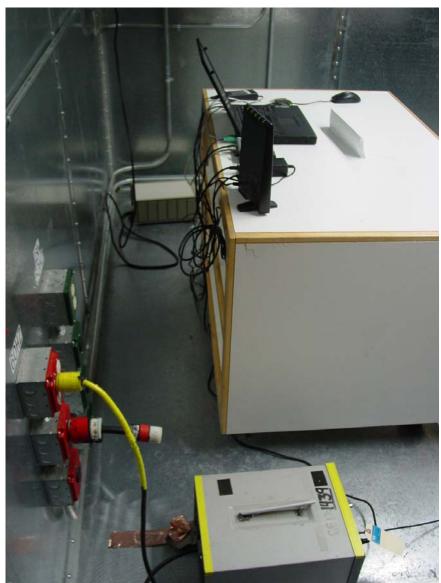
1.) Could you please send powerline conducted and radiated test setup photos using ANSI C63.4 setup diagrams? The FCC requires this along with A2LA and NAVLAP certification bodies. When I receive these photos front and rear of both test setups, I can proceed with the application upload to the FCC.

Reply: The PHX-RSU2400A wireless modem was setup for testing per the ANSI C63.4-2003 test arrangement for conducted and radiated emissions. A rescan was performed for conducted emissions with no changes to the original filed information. Photographs attached below. A rescan was performed for the radiated emissions with one spurious signal being slightly out of compliance. A ferrite bead was added to the Ethernet cable which brought the emission into compliance. The rescan information is attached below along with the pictures. Units will ship with a ferrite bead on the Ethernet cable.

Regards, Tim Blom NextNet Wireless, Inc.



Conducted Emissions (front view)



Conducted Emissions (rear view)



Radiated Emissions (front view)



Radiated Emissions (rear view)



Test Report #:	WC403349 Run 12	Test Area:	LTS				
EUT Model #:	RSU-2400A	Date:	10/8/04				
EUT Serial #:		EUT Power.	60 Hz / 110 VAC	Temperature	:2	23.0	°C
Test Method:	FCC B			Air Pressure	:9	<b>39.0</b>	kPa
Customer:	Next Net	<u></u>		Rel. Humidity	: 6	35.0	%
EUT Description:	2.4 GHz TRx & Rovr Resident	tal Subscriber Unit					_
Notes:	transmitter on			,			
Data File Name:	3349.dat			Pa	age:	1 of	4

List of me	asureme	nts for run #: 12				
FREQ	LEVEL	CABLE / ANT / PREAMP /	FINAL	POL/HGT/AZ	DELTA1	DELTA2
	(dBuV)	ATTEN	(dBuV/m)	(m)(DEG)	FCC-B <1GHz	FCC B >1GHz
	, ,	(dB)	1 ` '	, ,,	3m	3m
37.32 MHz	38.51 Qp	0.48 / 17.7 / 25.9 / 0.0	30.79	V / 1.00 / 0	-9.21	n/a
75.0 MHz	50.24 Qp	0,71 / 8.2 / 25.8 / 0.0	33.35	V / 1.00 / 0	-6.65	n/a
124.48 MHz	53.55 Qp	0.94 / 8.98 / 26.02 / 0.0	37.45	V / 1.00 / 0	-6.05	n/a
150.0 MHz	54.09 Qp	1.0 / 9.97 / 25.92 / 0.0	39.14	V / 1,00 / 0	-4.36	n/a
156.85 MHz	51.81 Qp	1.0 / 9.12 / 25.95 / 0.0	35.98	V / 1.00 / 0	-7.52	n/a
162.9 MHz	55.21 Qp	1.03 / 9.0 / 26.0 / 0.0	39.23	V / 1.00 / 0	-4.27	n/a
280.0 MHz	57.32 Qp	1.5 / 12.66 / 26.48 / 0.0	45.0	V / 1.00 / 0	-1.0	n/a
325.75 MHz	49.66 Qp	1,53 / 14.0 / 26.7 / 0.0	38.49	V / 1.00 / 0	-7.51	n/a
405.5 MHz	46.66 Qp	1.7 / 16.3 / 26.72 / 0.0	37.94	V / 1.00 / 0	-8.06	n/a
980.0 MHz	35.75 Qp	2.71 / 24.14 / 26.42 / 0.0	36.18	V / 1.00 / 0	-17.82	n/a
280.0 MHz	31.61 Qp	1.5 / 12.66 / 0.0 / 0.0	45.77	V / 1.80 / 100	-0.23	n/a
280.0 MHz	46.12 Qp	1.5 / 12.66 / 26.48 / 0.0	33.8	V / 1.80 / 100	-12.2	n/a
280.0 MHz	56.54 Qp	1.5 / 12.66 / 26.48 / 0.0	44.22	H / 3.00 / 0	-1.78	n/a
added ferrite on	ethernet cable	at the eut end				<u> </u>
added ferrite on	router end of e	thernet cable	_			
280.0 MHz	56.41 Qp	1.5 / 12.66 / 26.48 / 0.0	44.09	H / 1.00 / 70	-1.91	n/a
1.494 GHz	42.88 Av	3.42 / 26.7 / 26.3 / 0.0	46.7	V / 1.00 / 0	n/a	-7.3
2.335 GHz	41.43 Av	4.23 / 30.34 / 26.86 / 0.0	49.14	V / 1.00 / 0	n/a	-4.86

Tested by:	J. T. Schneider	
-	Printed	Signature
Reviewed by:		
	Printed	Signature



Test Report #:	WC403349 Run 12	Test Area:	LTS				
EUT Model #.	RSU-2400A	Date:	10/8/04				
EUT Serial #.		EUT Power:	60 Hz / 110 VAC	Temperatu	re:	23.0	°C
Test Method:	FCC B			Air Pressu	re:	99.0	kPa
Customer	Next Net			Rel. Humid	ity:	65.0_	%
EUT Description:	2.4 GHz TRx & Rcvr Residental Su	bscriber Unit					
Notes:	transmitter on						
Data File Name:	3349.dat				Page:	2 of	4

Measurem	ent sum	mary for limit1: FCC	C-B <1GH	z 3m (Qp)	
FREQ	LEVEL	CABLE / ANT / PREAMP /	FINAL	POL/HGT/AZ	DELTA1
	(dBuV)	ATTEN	(dBuV/m)	(m)(DEG)	FCC-B <1GHz
	` ′	(dB)			3m
280.0 MHz	31.61 Qp	1.5 / 12.66 / 0.0 / 0.0	45.77	V / 1.80 / 100	-0.23
162.9 MHz	55.21 Qp	1.03 / 9.0 / 26.0 / 0.0	39.23	V / 1.00 / 0	-4.27
150.0 MHz	54.09 Qp	1.0 / 9.97 / 25.92 / 0.0	39.14	V / 1.00 / 0	-4.36
124.48 MHz	53.55 Qp	0.94 / 8.98 / 26.02 / 0.0	37.45	V / 1.00 / 0	-6.05
75.0 MHz	50.24 Qp	0.71 / 8.2 / 25.8 / 0.0	33.35	V / 1.00 / 0	-6.65
325.75 MHz	49.66 Qp	1.53 / 14.0 / 26.7 / 0.0	38.49	V / 1.00 / 0	- <u>7.51</u>
156.85 MHz	51.81 Qp	1.0 / 9.12 / 25.95 / 0.0	35.98	V / 1.00 / 0	-7.52
405.5 MHz	46.66 Qp	1.7 / 16.3 / 26.72 / 0.0	37.94	V / 1.00 / 0	-8.06
37.32 MHz	38.51 Qp	0.48 / 17.7 / 25.9 / 0.0	30.79	V / 1.00 / 0	-9.21
980 0 MHz	35 75 Qp	2.71/24.14/26.42/0.0	36.18	V / 1.00 / 0	-17.82

Tested by:	J. T. Schneider	
. <u>-</u>	Printed	Signature
Reviewed by:		
·	Printed	Signature



Test Report #:	WC403349 Run 12	Test Area:	LTS			
EUT Model #:	RSU-2400A	Date:	10/8/04			
EUT Serial #:		EUT Power.	60 Hz / 110 VAC	Temperature: _	23.0	°C
Test Method:	FCC B			Air Pressure:	99.0	kPa
Customer:	Next Net			Rel. Humidity:	65.0	%
EUT Description:	2.4 GHz TRx & Rcvr Residental	Subscriber Unit				
Notes:	transmitter on					
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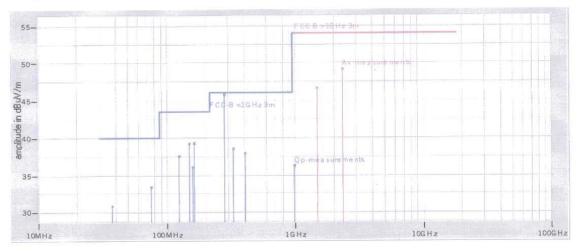
Measurement summary for limit2: FCC B >1GHz 3m (Av)						
FREQ	(dBuV)	CABLE / ANT / PREAMP / ATTEN (dB)	FINAL (dBuV / m)	POL / HGT / AZ (m)(DEG)	DELTA2 FCC B >1GHz 3m	
2.335 GHz	41.43 Av	4.23 / 30.34 / 26.86 / 0.0	49.14	V / 1.00 / 0	-4.86	
1 494 GHz	42 88 Av	3 42 / 26 7 / 26 3 / 0 0	46.7	V / 1.00 / 0	7.3	

Tested by:	J. T. Schneider Printed	Signature	
Reviewed by:			
	Printed	Signature	



Test Report #:	WC403349 Run 12	Test Area:	LTS				
EUT Model #.	RSU-2400A	Date:	10/8/04				
EUT Serial #:		EUT Power:	60 Hz / 110 VAC	Temperature:	23	3.0	°C
Test Method:	FCC B			Air Pressure:	99	0.0	kPa
Customer.	Next Net			Rel. Humidity:	65	5.0	%
EUT Description:	2.4 GHz TRx & Rcvr Resider	ntal Subscriber Unit					
Notes:	transmitter on						
Data File Name:	3349.dat			Pag	je: 4	4 of 4	1

## Graph:



Tested by:	J. T. Schneider		
	Printed	Signature	
Reviewed by:			
	Printed	Signature	