Exhibit 6

Test Report Part 2r FCC Part 27

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Spurious Emissions At Antenna Terminals

Rule Part Number: 2.1051, 2.1049, 2.1057

Frequency Range = 9 kHz to 26.50 GHz

Attenuation (dB) below the power (W) supplied to the antenna

transmission line

Attenuation = $43 + 10 \log P$, or 70 dBc, whichever is less stringent

Attenuation = $43 + 10\log(2) = 46$ dBc 2 watt transmit level

(equates to absolute level of -13 dBm)

Standard: TIA-603-B

TIA Standard, Land Mobile FM or PM Communications Equipment, Measurement and Performance Standards

Test Procedure: The Orthogonal Frequency Division Multiplexing (OFDM)

modulated Time Division Duplex (TDD) RF signal from the test unit is applied to a spectrum analyzer thru 41.4 dB of attenuation (coax and attenuators), or through an attenuator, notch filter and coax that was calibrated for RF loss at each harmonic frequency being tested. The transmission is recorded from 9 kHz to 26.5 GHz. The transmitter is enabled in test mode with the attached computer. The RF loss of the attenuators and coax was measured and is included in the spectrum analyzer offset level for the specific measurement being recorded. Measurements are

performed at frequencies across the band and channel bandwidths

(5.5 MHz and 6 MHz). All measurements utilized 4-QAM modulation. One data plot from each channel bandwidth is included for tests below the BRS/EBS frequency band. All

channels measured had similar looking spectral plots. The second harmonic of each tested frequency is shown for emissions. The worst-case channel for second harmonic was chosen to show compliance for harmonics three thru ten. The other channels tested

have similar or lower harmonic levels.

Test Conditions: Frequencies =

5.5 MHz channel: 2504.75, 2565.25, 2626.75, and 2687.25 MHz

6.0 MHz channel: 2499, 2575, and 2621 MHz

Second harmonic of all test frequencies included, 3rd thru 10th harmonics of 2504.75 MHz (worst case value) included at end. All

other frequencies had similar results.

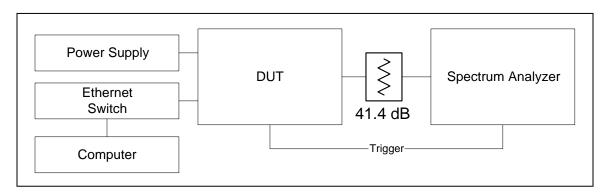
Temperature = 25° C

Supply Voltage = 13.0 VDC nominal to RSU

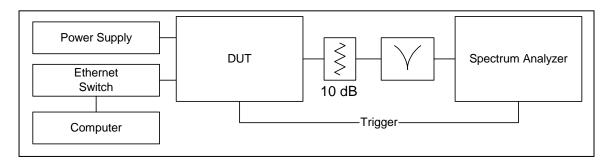
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05/5/2005

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Generic Spurious Emissions Test Setup

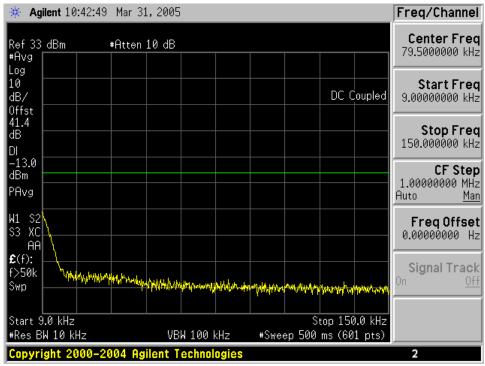


Harmonic Emissions Test Setup

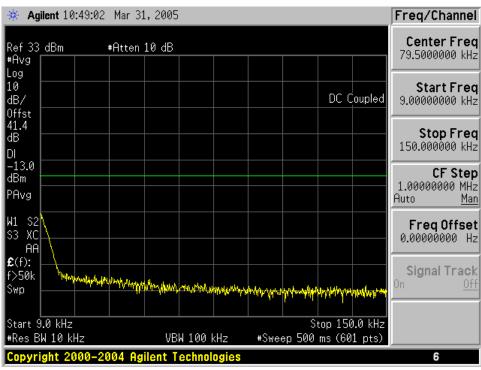
Test Results: Passes conducted emissions from 9 kHz to 26.5 GHz.

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Spurious Emissions At Antenna Terminals Spectrum Analyzer Plots

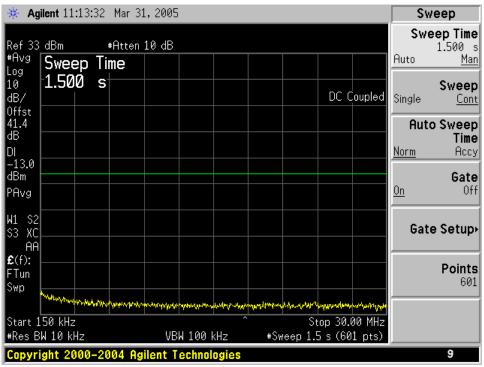


9 kHz – 150 kHz (2575 MHz / 6 MHz channel)

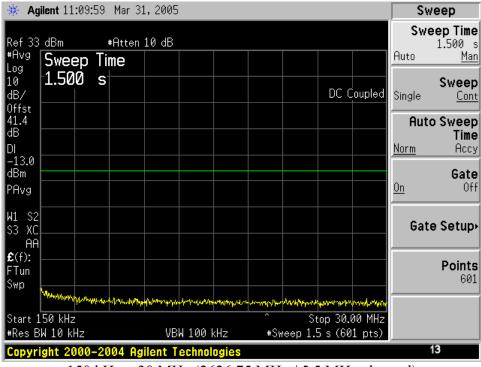


9 kHz – 150 kHz (2626.75 MHz / 5.5 MHz channel)

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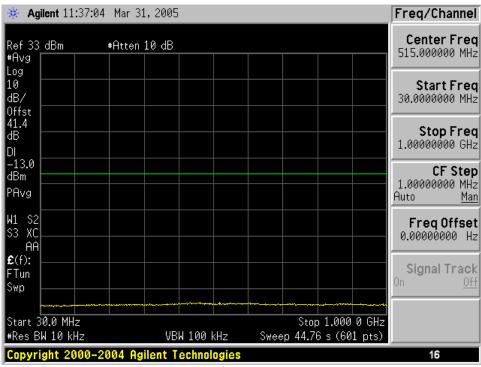


150 kHz – 30 MHz (2575 MHz / 6 MHz channel)

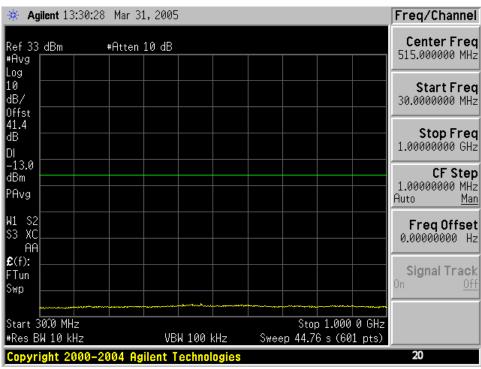


150 kHz – 30 MHz (2626.75 MHz / 5.5 MHz channel)

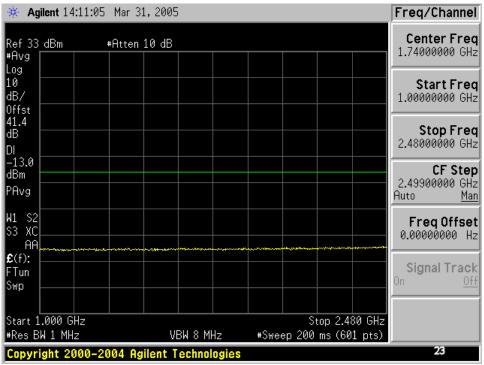
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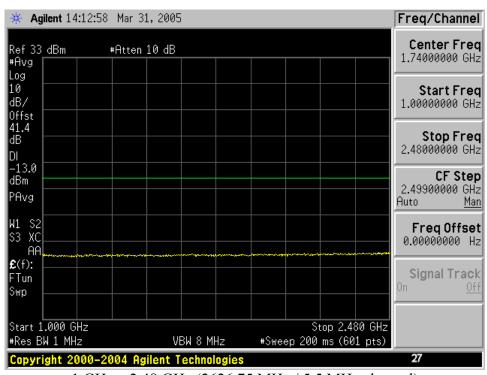
30 MHz – 1 GHz (2575 MHz / 6 MHz channel)



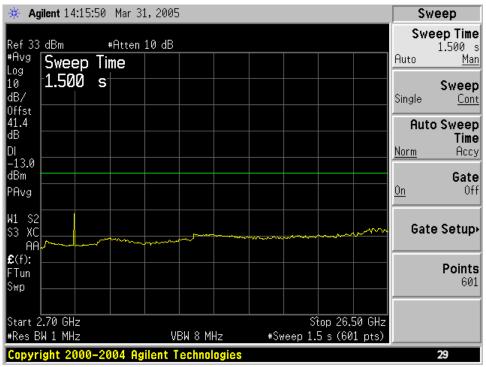
30 MHz – 1 GHz (2626.75 MHz / 5.5 MHz channel)



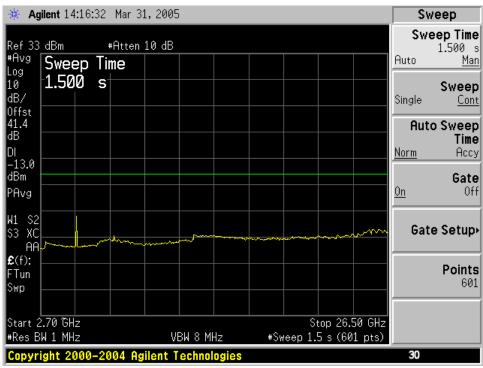
1 GHz – 2.48 GHz (2575 MHz / 6 MHz channel)



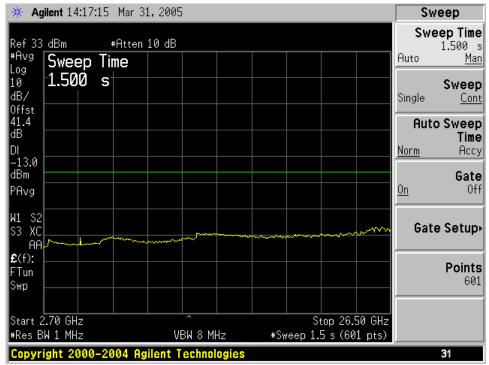
1 GHz – 2.48 GHz (2626.75 MHz / 5.5 MHz channel)



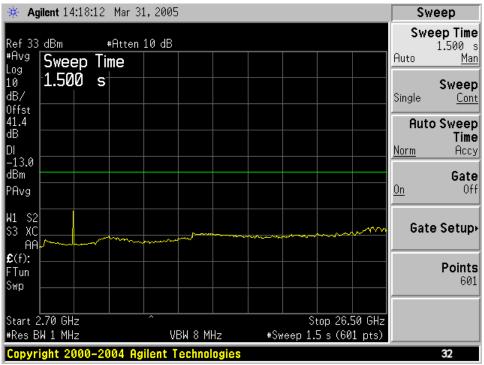
2.7 GHz – 26.5 GHz (2499 MHz / 6 MHz channel)



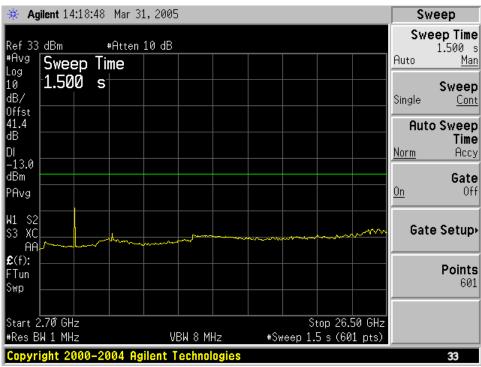
2.7 GHz – 26.5 GHz (2575 MHz / 6 MHz channel)



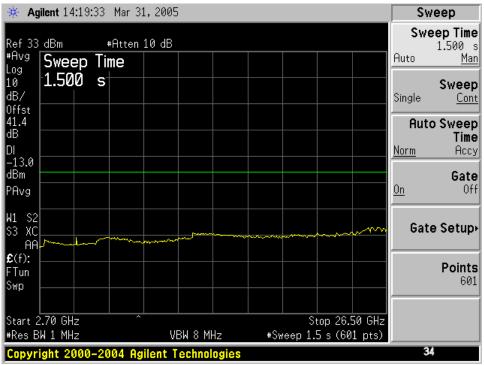
2.7 GHz – 26.5 GHz (2621 MHz / 6 MHz channel)



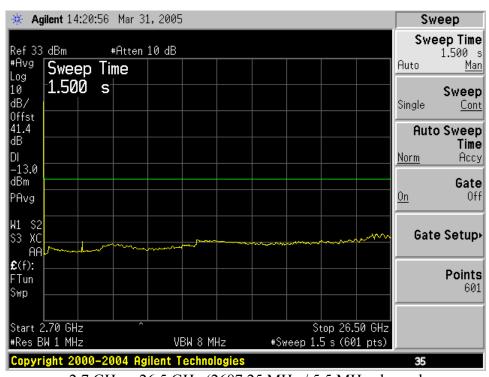
2.7 GHz – 26.5 GHz (2504.75 MHz / 5.5 MHz channel)



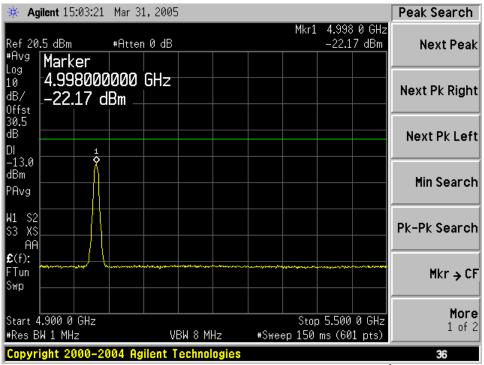
2.7 GHz – 26.5 GHz (2565.25 MHz / 5.5 MHz channel



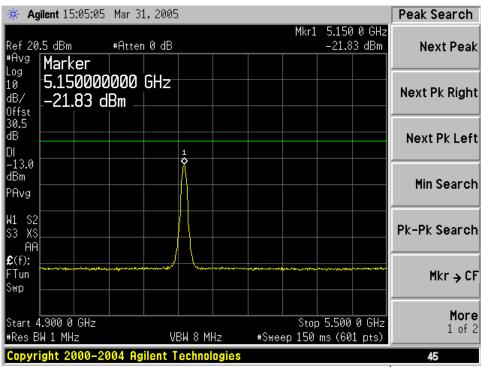
2.7 GHz – 26.5 GHz (2626.75 MHz / 5.5 MHz channel)



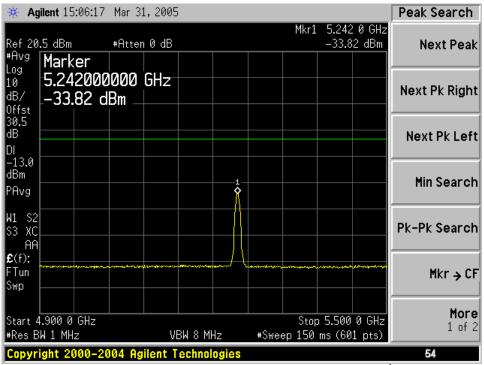
2.7 GHz – 26.5 GHz (2687.25 MHz / 5.5 MHz channel



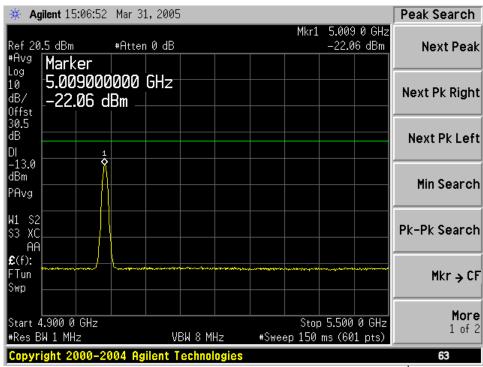
4.992 GHz – 5.38 GHz (2499 MHz / 6 MHz channel / 2nd harmonic)



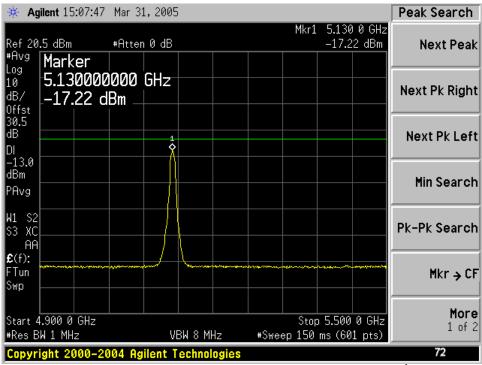
4.992 GHz – 5.38 GHz (2575 MHz / 6 MHz channel / 2nd harmonic)



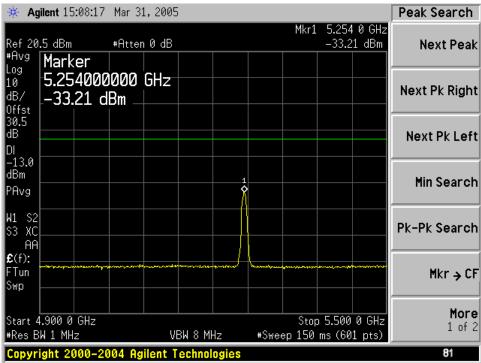
4.992 GHz – 5.38 GHz (2621 MHz / 6 MHz channel / 2nd harmonic)



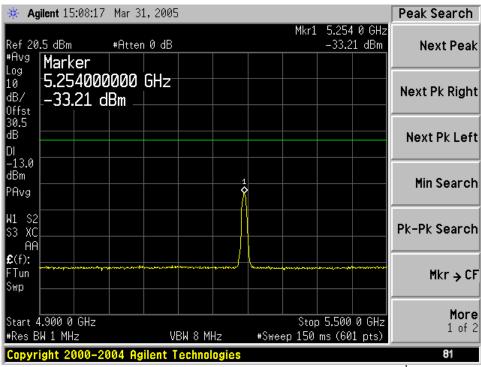
4.992 GHz – 5.38 GHz (2504.75 MHz / 5.5 MHz channel / 2nd harmonic)



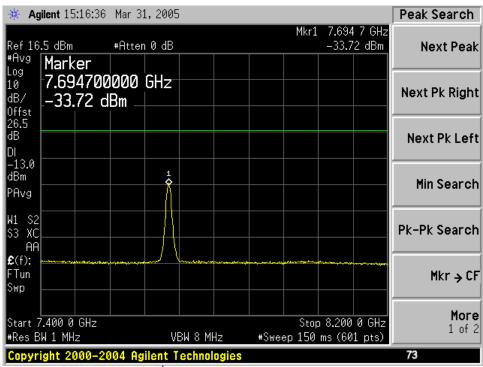
4.992 GHz – 5.38 GHz (2565.25 MHz / 5.5 MHz channel / 2nd harmonic)



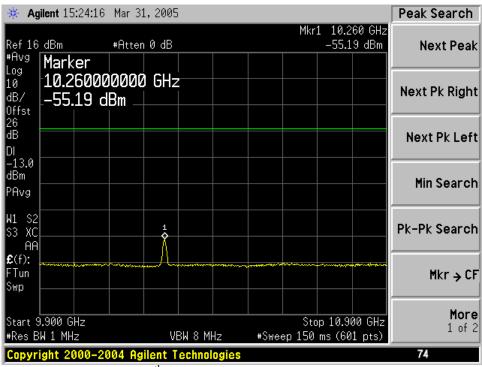
4.992 GHz – 5.38 GHz (2626.75 MHz / 5.5 MHz channel / 2nd harmonic)



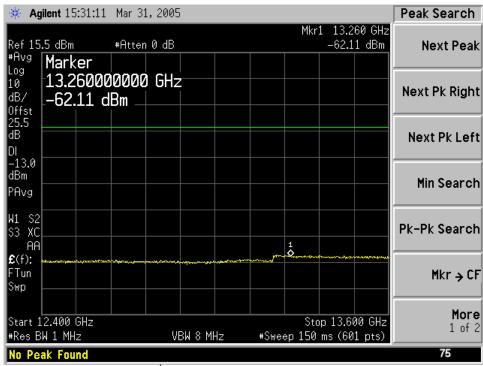
4.992 GHz – 5.38 GHz (2687.25 MHz / 5.5 MHz channel / 2nd harmonic)



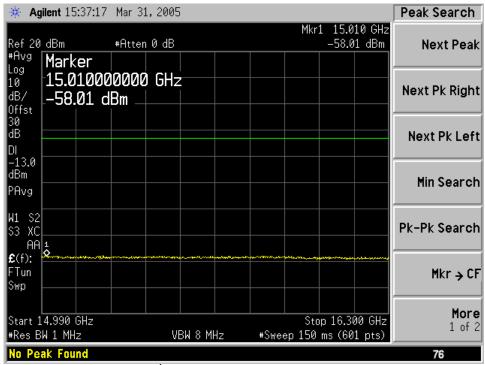
3rd harmonic of 2565.25 MHz



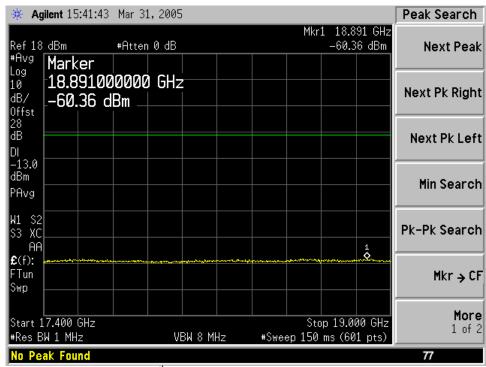
4th harmonic of 2565.25 MHz



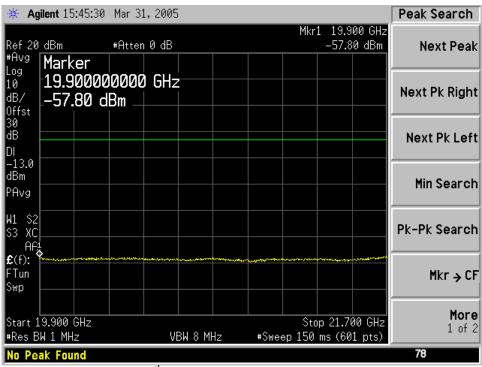
5th harmonic of 2565.25 MHz



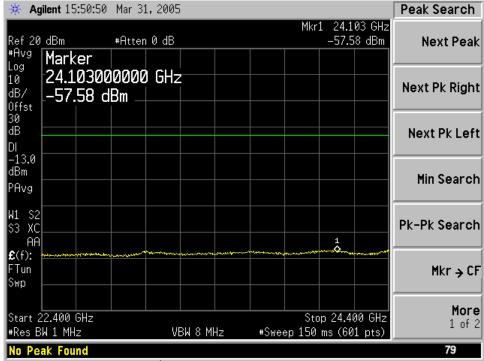
6th harmonic of 2565.25 MHz



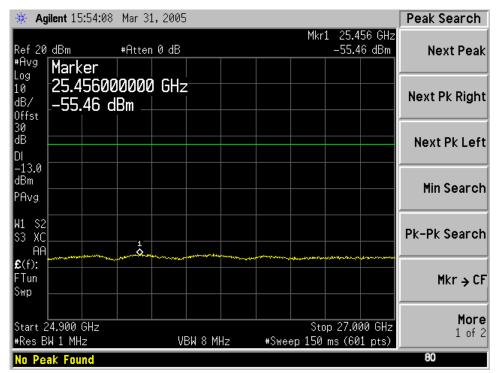
7th harmonic of 2565.25 MHz



8th harmonic of 2565.25 MHz



9th harmonic of 2565.25 MHz



10th harmonic of 2565.25 MHz

Field Strength Of Spurious Radiation

Rule Part Number: 2.1053, 2.1049, 2.1057

Frequency Range = 30 MHz to 26.86 GHz

Case Radiation Attenuation = $43+10\log P = -13$ dBm maximum

Standard: TIA-603-B

TIA Standard, Land Mobile FM or PM Communications Equipment, Measurement and Performance Standards

ANSI C63.4-2001 clause 5.4 Radiated Emissions Tests. American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.

Test Procedure: The field strength of spurious radiation was measured at an open

area test site with the applicable measurement antennas, low noise amplifiers, and spectrum analyzers. This test was performed with the transmitter connected to the integral antenna. Measurements were performed by TUV America located in Taylors Falls, Minnesota on March 28th and 29th, 2005. Spurious signals were maximized for peak level by rotation of the test unit and elevation of the measurement antenna. Verification of compliance to the emissions limit was accomplished by antenna substitution.

Test Conditions: Frequency = 2499, 2626.75, 2687.25 MHz

Temperature = 25° C

Supply Voltage = 13.0 VDC nominal

Test Results: Passes Field Strength of Spurious Radiation

TUV Test Report



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FCC ID: PHX-RSU2510F

TEST RESULT SUMMARY

FCC PART 15 SUBPART B
Conducted Emissions - Class B Limit
FCC PART 2.1053

MANUFACTURER'S NAME NextNet Wireless, Incorporated

NAME OF EQUIPMENT Expedience Residential Subscriber Unit (RSU)

TYPE OF EQUIPMENT Mobile Non-Line-of-Sight wireless data link

MODEL NUMBER 900-0060-XXXX

MANUFACTURER'S ADDRESS 9555 James Avenue South, Suite 270

Bloomington MN 55431

TEST REPORT NUMBER WC501486 Rev A

TEST DATE 29 March 2005

According to testing performed at TÜV Product Service Inc, the above-mentioned unit is in compliance with the electromagnetic compatibility requirements defined in FCC Part 2.1053 and with the conducted emission electromagnetic compatibility requirements defined FCC Part 15.

It is the manufacturer's responsibility to assure that additional production units of this model are manufactured with identical electrical and mechanical characteristics. Any modifications necessary for compliance made during testing on the above mentioned date(s) must be implemented in all production units for compliance to be maintained.

TÜV Product Service Inc, as an independent testing laboratory, declares that the equipment tested as specified above conforms to the requirements of FCC Part 2.1053 and with the conducted emission requirements of FCC Part 15.

Date: 05 May 2005

Location: Taylors Falls MN

USA

R. M. Johnson Tested By

...

T. K. Swanson Technical Writer

Thomas K. Swanon

Not Transferable

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EMC EMISSION	N - TEST REPORT
Test Report File No.	: WC501486 Rev A Date of issue: <u>05 May 2005</u>
Model / Serial No.	: 900-0060-XXXX / Board #: 1223
Product Name	: Expedience Residential Subscriber Unit (RSU)
Product Type	: Mobile Non-Line-of-Sight wireless data link
Applicant	: NextNet Wireless, Incorporated
Manufacturer	: NextNet Wireless, Incorporated
License holder	: NextNet Wireless, Incorporated
Address	9555 James Avenue South, Suite 270
	: Bloomington MN 55431
Test Result	: ■ Positive □ Negative
Test Project Number Reference(s)	: WC501486 Rev A
Total pages including Appendices	42
TÜV Product Service Inc is a subcor EN 45001.	intractor to TÜV Product Service, GmbH according to the principles outlined in ISO/IEC Guide 25 and
responsibility to assure that addition	ply only to the specific samples tested under stated test conditions. It is the manufacturer's nal production units of this model are manufactured with identical electrical and mechanical Inc shall have no liability for any deductions, inferences or generalizations drawn by the client or others of reports.
	ty of the client. As a mutual protection to our clients, the public and ourselves, extracts from the test pt in full without our written approval. This report shall not be used by the client to claim product ncy of the US government.
	TUV Product Service Inc and its professional staff hold government and professional organization certifications and are members of AAMI, ACIL, AEA, ANSI, IEEE, NVLAP, and VCCI
TÜV PRODUCT SERVICE INC 1933	File No. WC501486 Rev A, Page 1 of 14 33 Wild Mountain Road Taylors Falls MN 55084-1758 Tel: 651 638 0297 Fax: 651 638 0298 Rev.No 1.0



			PRODUCT SCRVICE
	DIREC	CTORY - EMISSION	s
A)	Documentation		Page(s)
	Test report		1 - 12
	Directory		3
	Test Regulations		4
	Deviations from standard / Summary		11
	Test-setups (Photos)		12 - 14
	Test-setup (drawing)		Appendix A
B)	Test data		
	Conducted emissions	10/150 kHz - 30 MHz	6, 10
	Radiated emissions	10 kHz - 30 MHz	6, 10
	Radiated emissions	30 MHz - 1000 MHz	7, 10
	Interference power	30 MHz - 300 MHz	7, 10
	Equivalent Radiated emissions	1 GHz - 26 GHz	8, 10
C)	Appendix A		
	Test Data Sheets and Test Setup Drawing	g(s)	A2 – A18
D)	Appendix B		
	Constructional Data Form		B2 - B8
	Product Information Form(s)		N/A
E)	Appendix C		
	Measurement Protocol		C1 - C2
ΤÜV	PRODUCT SERVICE INC 19333 Wild Mountain Road	Taylors Falls MN 55084-1758	File No. WC501486 Rev A, Page 3 of 14 Tel: 651 638 0297 Fax: 651 638 0298 Rev.No 1.0



EMISSIONS TEST REGULATIONS :		
The emissions tests were performed according to		
□ - EN 50081-1 / 1991 □ - EN 55011 / 1991	□ - Group 1 □ - Class A	□ - Group 2 □ - Class B
□ - EN 55013 / 1990 □ - EN 55014 / 1987	☐ - Household applia ☐ - Portable tools ☐ - Semiconductor de	
□ - EN 55014 / A2:1990 □ - EN 55014 / 1993	□ - Household applia □ - Portable tools □ - Semiconductor de	nnces and similar
□ - EN 55015 / 1987 □ - EN 55015 / A1:1990 □ - EN 55015 / 1993 □ - EN 55022 / 1987 □ - EN 55022 / 1994	□ - Class A □ - Class A	□ - Class B □ - Class B
 □ - BS □ - VCCI ■ - FCC Part 15 Subpart B – Conducted Emissions ■ - FCC Part 2.1053 		□ - Class B ■ - Class B
□ - AS 3548 (1992)	□ - Class A	□ - Class B
□ - CISPR 11 (1990)	☐ - Group 1 ☐ - Class A	☐ - Group 2 ☐ - Class B
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Environmental conditions in the lab:

Actual : 23 °C : 24 % Temperature: Relative Humidity
Atmospheric pressure
Power supply system : 98.0 kPa

Power supply system : 115 VAC / 60 Hz / 1-phase

Sign Explanations:

- □ not applicable
- applicable

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Emissions Test Conditions: CONDUCTED EMISSIONS (Interference Voltage)

The CONDUCTED EMISSIONS (INTERFERENCE VOLTAGE) measurements were performed at the following test location:

□ - Test not applicable

- - Wild River Lab Large Test Site (Open Area Test Site)
 □ Wild River Lab Small Test Site (Open Area Test Site)
- □ Oakwood Lab (Open Area Test Site)
- □ Wild River Lab Screen Room
- □ New Brighton Lab Shielded Room

Test equipment used :

	TUV ID	Model Number	Manufacturer	Description	Serial Number	Cal Due
-	2416	3825/2	Electro-Mechanics (EMCC) 50 Ω LISN	8812-1437	Code B
			•			05-Jan-06
■ -	2417	3825/2	Electro-Mechanics (EMCC) 50 Ω LISN	8812-1439	Code B
			•			10-Feb-06
-	2534	ESHS-20	Rhode & Schwarz	EMI Receiver	837055/003	14-Feb-06
Cal C	ode B = Ca	libration verification;	performed internally. Cal Co.	le Y = Calibration not required when	used with other calib	rated equipment.

All measurement instrumentation is traceable to the National Institute of Standards and Technology (NIST) and is calibrated annually.

Emissions Test Conditions: RADIATED EMISSIONS (Magnetic Field)

The RADIATED EMISSIONS (MAGNETIC FIELD) measurements were performed at the following test location:

■ - Test not applicable

- ☐ Wild River Lab Large Test Site (Open Area Test Site)
- □ Wild River Lab Small Test Site (Open Area Test Site)
- ☐ Oakwood Lab (Open Area Test Site)

at a test distance of :

- □ 3 meters
- □ 30 meters

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Emissions Test Conditions: RADIATED EMISSIONS (Electric Field)

The RADIATED EMISSIONS (ELECTRIC FIELD) measurements, in the frequency range of 30 MHz-1000 MHz, were tested in a horizontal and vertical polarization at the following test location:

□ - Test not applicable

- - Wild River Lab Large Test Site (Open Area Test Site) NSA measurements made 8-04, due 8-06.
- □ Wild River Lab Small Test Site (Open Area Test Site)
- □ Oakwood Lab (Open Area Test Site)

at a test distance of :

- 3 meters
- ☐ 10 meters
- □ 30 meters

Test equipment used:

	TUV ID	Model Number	Manufacturer	Description	Serial Number	Cal Due
-	3204	EM-6917B	Electro-Metrics	Biconicalog Periodic	102	21-Oct-05
	2682	85650A	Hewlett-Packard	Quasi-Peak Adapter	2811A01127	14-Aug-05
■-	2689	8566B	Hewlett-Packard	Spectrum Analyzer	2416A00321	31-Jan-06
-	2674	85662A	Hewlett-Packard	Analyzer Display	2050A02007	31-Jan-06
-	2670	8447D	Electro-Mechanics (EMCO)	Preamplifier	2443A03954	Code B
						17-Oct-05

Cal Code B = Calibration verification performed internally.

Cal Code Y = Calibration not required when used with other calibrated equipment.

All measurement instrumentation is traceable to the National Institute of Standards and Technology (NIST) and is calibrated annually.

Emissions Test Conditions: INTERFERENCE POWER

The INTERFERENCE POWER measurements were performed by using the absorbing clamp on the mains and interface cables in the frequency range 30 MHz - 300 MHz at the following test location:

■ - Test not applicable

- □ Wild River Lab Large Test Site (Open Area Test Site)
 □ Wild River Lab Small Test Site (Open Area Test Site)
- ☐ Oakwood Lab (Open Area Test Site)
- ☐ Wild River Lab Screen Room
- □ New Brighton Lab Shielded Room

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Emissions Test Conditions: RADIATED EMISSIONS (Electric Field)

The Equivalent Radiated Emissions measurements in the frequency range 1 GHz - 26 GHz were performed in a horizontal and vertical polarization at the following test location:

□ - Test not applicable

- - Wild River Lab Large Test Site (Open Area Test Site)
 □ Wild River Lab Small Test Site (Open Area Test Site)
 □ Oakwood Lab (Open Area Test Site)
- □ Wild River Lab Screen Room

at a test distance of:

- ☐ 1 meters
- 3 meters
- ☐ 10 meters

Test equipment used :

	TUV ID	Model Number	Manufacturer	Description	Serial Number	Cal Due
	2682	85650A	Hewlett-Packard	Quasi-Peak Adapter	2811A01127	14-Aug-05
■-	2689	8566B	Hewlett-Packard	Spectrum Analyzer	2416A00321	31-Jan-06
-	2674	85662A	Hewlett-Packard	Analyzer Display	2050A02007	31-Jan-06
■-	3957	SL18B4020	Phase One Microwave	Preamplifier 1 – 18 GHz	0001	Code B
						17-Oct-05
■ -	2075	3115	Electro-Mechanics (EMCO)	Ridge Guide Ant. 1-18 GHz	9001-3275	24-Nov-05
Cal C	ode B = Cal	libration verification r	performed internally Cal Code	Y = Calibration not required when u	ised with other calibr	ated equipment

All measurement instrumentation is traceable to the National Institute of Standards and Technology (NIST) and is calibrated annually.

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	Test Operation Mode - Emission tests :	
•		
□ Standby	d under the following conditions during emissions testing:	
Li - Staridby		
☐ - Test program (H - Pattern)		
□ - Test program (color bar)		
□ - Test program (customer specific		
☐ - Practice operation		
☐ - Normal Operating Mode		
	ansmitter (vertical and horizontal antenna). Parts 2 and 27 ceive. Part 15. DOC compliance	
Configuration of the device unde	test:	
■ - See Constructional Data Form in	Appendix B - Pages B2	
□ - See Product Information Form i	Appendix B - beginning on Page B3	
The following peripheral devices	nd interface cables were connected during the measurement:	
_	_	
o		
o -	Туре :	
	Type :	
	Type :	
	Type: Type: Type: Type:	
	Type: Type: Type: Type: Type:	
	Type: Type: Type: Type: Type: Type: Type:	
 	Type: Type: Type: Type: Type: Type: Type:	
	Type: Type: Type: Type: Type: Type: Type:	
	Type: Type: Type: Type: Type: Type: Type:	
	Type: Type: Type: Type: Type: Type: Type: Type: Type:	
□ -	Type: Type: Type: Type: Type: Type: Type: Type: Type:	

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Conducted emissions 10/150 kHz - 30 MHz -	<u>.</u>	
The requirements are	■ - MET	☐ - NOT MET
Minimum margin of compliance	16 dB	at <u>196.9</u> kHz
Maximum margin of non-compliance	dB	at MHz
Remarks:		
Radiated emissions (electric field) 30 MHz -		
The requirements are	- MET	☐ - NOT MET
Minimum margin of compliance	dB	at MHz
Maximum margin of non-compliance Remarks:	dB	at MHz
Equivalent Radiated emissions 1 GHz - 27 G		
The requirements are	□ - MET	☐ - NOT MET
Minimum margin of compliance	dB	at MHz
Maximum margin of non-compliance	dB	at MHz
Remarks:		
Radiated emissions (electric field) 30 MHz -		
Radiated emissions (electric field) 30 MHz - The requirements are	■ - MET	☐ - NOT MET
Radiated emissions (electric field) 30 MHz - The requirements are Minimum margin of compliance	■ - MET 47 dB	□ - NOT MET at400.0 MHz
The requirements are	■ - MET 47 dB dB	☐ - NOT MET
Radiated emissions (electric field) 30 MHz - The requirements are Minimum margin of compliance Maximum margin of non-compliance Remarks:	■ - MET	□ - NOT MET at400.0 MHz at MHz
Radiated emissions (electric field) 30 MHz - The requirements are Minimum margin of compliance Maximum margin of non-compliance Remarks: Radiated emissions (electric field) 1 GHz - 27 The requirements are	■ - MET 47 dBdB 7 GHz – FCC Part 2.1053 ■ - MET	atMHz atMHz atMHz
Radiated emissions (electric field) 30 MHz - The requirements are Minimum margin of compliance Maximum margin of non-compliance Remarks: Radiated emissions (electric field) 1 GHz - 27 The requirements are Minimum margin of compliance	■ - MET	□ - NOT MET at MHz at MHz □ - NOT MET at 5375.0 MHz
Radiated emissions (electric field) 30 MHz - The requirements are Minimum margin of compliance Maximum margin of non-compliance Remarks: Radiated emissions (electric field) 1 GHz - 27 The requirements are Minimum margin of compliance Maximum margin of non-compliance	■ - MET 47 dBdB 7 GHz – FCC Part 2.1053 ■ - MET	atMHz atMHz atMHz
Radiated emissions (electric field) 30 MHz - The requirements are Minimum margin of compliance Maximum margin of non-compliance	■ - MET 47 dB dB 7 GHz – FCC Part 2.1053 ■ - MET 2 dB	□ - NOT MET at MHz at MHz □ - NOT MET at 5375.0 MHz

FCC ID: PHX-RSU2510F Page 32 of 57



DEVIATIONS FROM STANDARD:	
None	
GENERAL REMARKS:	
SUMMARY:	
The requirements according to the technical	nical regulations are
■ - met	
□ - not met.	
The device under test does	
■ - fulfill the general approval requireme	ents mentioned on page 3.
☐ - not fulfill the general approval requi	rements mentioned on page 3.
Testing Start Date:	29 March 2005
Testing End Date:	29 March 2005
- TÜV PRODUCT SERVICE INC -	
Res M. John	Thomas K. Swanon
Tested By: R. M. Johnson	T. K. Swanson Technical Writer
TÜV PRODUCT SERVICE INC 19333 Wild Mountain	File No. WC501486 Rev A, Page 11 of 14 n Road Taylors Falls MN 55084-1758 Tel: 651 638 0297 Fax: 651 638 0298 Rev.No 1.0

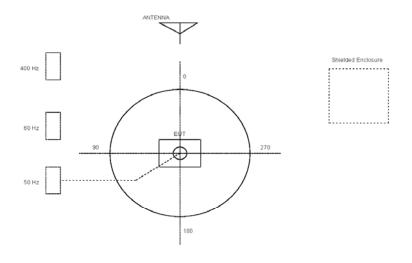


TEST SETUP FOR EMISSIONS TESTING

WILD RIVER LAB Large Test Site

Notes:

- Items shown in dotted lines are located on the floor below the test area. It is 5 meters vertically from the ground floor to the test area.
- 2. 50 Hz, 60 Hz, and 400 Hz are power panels for alternating current.
- 3. The antenna may be positioned horizontally 3, 10 or 30 meters from the center of the turntable.
- 4. The circle is a 6.7 meter diameter turntable.
- 5. A ground plane is in the plane of this sheet.
- 6. The test sample is shown in the azimuthal position representing zero degrees.



File No. WC501486 Rev A, Page A2 of A18

TÜV PRODUCT SERVICE INC 19333 WI

19333 Wild Mountain Road

Taylors Falls MN 55084-1758

Tel: 651 638 0297 Fax: 651 638 0298 Rev.No 1.0

NextNet[®] Wireless, Inc. 9555 James Ave. South Suite 270 Bloomington, MN 55431

FCC ID: PHX-RSU2510F Page 34 of 57

RADIATED EMISSIONS



Test Report	#: WC501486 Run 1	Test Area:	LTS		America	
EUT Model	#: RSU2510F	Date:	3/29/2005			
EUT Serial	#: <u>1223</u>	EUT Power:	60Hz/110VAC	Temperature:	23.0	°C
Test Metho	d: FCC B			Air Pressure:	98.0	kPa
Custome	r: NEXNET WIRELESS			Rel. Humidity:	24.0	%
EUT Descriptio	n: WIRELESS DATA MODEM					
Note	S: VERTICAL TRANSMIT ANTENNA	- TRANSMITTER	SPURIOUS SCAN.			
Data File Nam	e: 1486.dat			Page	∋: 1 of	9
List of me	surements for run #: 1					
FREQ	LEVEL CABLE / ANT / PREAM (dBuV) ATTEN+Substitution Fa (dB)		POL / HGT / AZ (m)(DEG)	DELTA1 -13 dBm QP (dB)	DELT/ -13 dBm (dB)	Ave
The cable betwantenna has an a 10 dB input an The signal generatogain equals the -53 dBm - (1.6) The difference -97.46 dB and i 30 MHz to 1 GFF remost of the	A substitution measurement was performed for the highest spurious emission (400 MHz), as described on page C2 of the test report, using a signal generator, a cable, and a dipole antenna. The cable between the signal generator and dipole antenna has a loss of 1.6 dB at 400 MHz. The Schwarzbeck dipole antenna has an additional 1.64 dB of gain over the 2.15 dB gain of a standard dipole. The Schwarzbeck dipole also has a 10 dB input attenuator. So the final or total gain of the dipole is 1.64 dB plus 2.15 dB minus 10 dB = -6.21 dB. The signal generator level was set to -53 dBm in order to match the measured EUT emission level of 36.66 dBuV/m. The signal generator level minus the cable loss from the signal generator to the substitute antenna plus the substitute antenna gain equals the spurious power level. -53 dBm - (1.6) + (-6.21) = -60.8 final dBm power level at 400 MHz. The difference between the final dBm substitution level (-60.8) and the final measured dBuV/m level (36.66) equals -97.46 dB and is used as a substitution factor to convert dBuV/m to dBm for spurious emissions in the frequency range of 30 MHz to 1 GHz. For most of the spurious emissions above 1 GHz an additional filter with a 10 dB attenuator was used on the input to result in a substitution factor -87.46 dB.					
Tested by:	RMJ	Æ	Mafilian			
_	Printed		Signature			
Reviewed by:_	TKS	Thom	news K. Swamon			
	Printed		Signature			

File No. WC501486 Rev A, Page A7 of A18

FCC ID: PHX-RSU2510F Page 35 of 57

RADIATED EMISSIONS



Test Report	#: WC50148	36 Run 1	Test Area:	LTS		7.111.011.00
EUT Model	#: _RSU2510)F	Date:	3/29/2005		
EUT Serial	#: 1223		EUT Power:	60Hz/110VAC	Temperature:	23.0 °C
Test Metho	od: FCC B				Air Pressure:	98.0_ kPa
Custom	er: NEXNET	WRELESS			Rel. Humidity:	24.0 %
EUT Description	on: WIRELES	SS DATA MODEM				
Note	es: VERTICA	L TRANSMIT ANTENNA - T	RANSMITTER	SPURIOUS SCAN.		
Data File Nan	ne: <u>1486.dat</u>				Pa	ge: 2 of 9
List of me	asureme	nts for run #: 1				
FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP ATTEN+Substitution Facto (dB)		POL / HGT / AZ (m)(DEG)	DELTA1 -13 dBm QP (dB)	DELTA2 -13 dBm Ave (dB)
* Denotes a peal	k measuremen	t compared to an average lin	nit.			
5.5MHz CHANN	EL BANDWID	ГН				
MAXIMIZED.						
LOW CHANNEL					, ,	00.50
4.998 GHz	51.4 Av	6.5 / 33.39 / 40.59 / -87.2	6 -36.56	V / 1.24 / 203	n/a	-23.56
MID CHANNEL	RF CHANNEL					
5.15 GHz	51.9 Av	6.59 / 33.6 / 40.21 / -87.2	6 -35.38	V / 1.15 / 230	n/a	-22.38
HI RF CHANNE	<u> </u>					
5.375 GHz	50.2 Av	6.72 / 33.91 / 40.28 / -87.3	36 -36.81	V / 1.30 / 183	n/a	-23.81
5.375 GHz	58.25 Pk	6.72 / 33.91 / 40.28 / -87.3			n/a	-15.76*
7.874 GHz	39.42 Av	8.28 / 36.83 / 40.29 / -87.3	36 -43.11	V / 1.30 / 183	n/a	-30.11
MID CHANNEL						
MID CHANNEL 7.725 GHz	43.07 Av	8.23 / 36.74 / 41.09 / -87.3	36 -40.42	V / 1.00 / 217	n/a	-27.42
5.15 GHz	60.55 Pk	6.59 / 33.6 / 40.21 / -87.2		V / 1.00 / 217	n/a	-13.73*
0.10 0.12		0.00700.0710.21701.2				
LOW CHANNEL						
4.998 GHz	65.3 Pk	6.5 / 33.39 / 40.59 / -87.2		V / 1.00 / 217	n/a	-9.66*
7.497 GHz	40.63 Av	8.14 / 36.59 / 41.18 / -87.4	46 -43.28	V / 1.00 / 217	n/a	-30.28
NO EMISSIONS	FOUND FRO	W 8 - 18GHz V OR H POLAR	RIZATIONS AT	ALL AZIMUTHS.		
Tested by:		RMJ	Æ	w. John		
		Printed		Signature		

Thomas K. Swamon

Signature

File No. WC501486 Rev A, Page A8 of A18

Reviewed

by:

TKS

Printed

FCC ID: PHX-RSU2510F Test Report Page 36 of 57

RADIATED EMISSIONS



Test Report #:	WC501486 Run 1	Test Area:	LTS	_		America	
EUT Model #:	RSU2510F	Date:	3/29/2005	_			
EUT Serial #:	1223	EUT Power:	60Hz/110VAC	Tempera	ture:	23.0	°C
Test Method:	FCC B			Air Press	sure:	98.0	kPa
Customer:	NEXNET WIRELESS			Rel. Hum	idity:	24.0	%
EUT Description:	WIRELESS DATA MODEM						
Notes:	VERTICAL TRANSMIT ANTENNA - 1	FRANSMITTER	SPURIOUS SCAN.				
Data File Name:	1486.dat				Page:	3 of	9
1							

FREQ	LEVEL	CABLE / ANT / PREAMP /	FINAL	POL/HGT/AZ	DELTA1	DELTA2
	(dBuV)	ATTEN+Substitution Factor	(dBm)	(m)(DEG)	-13 dBm QP	-13 dBm Ave
	(424)	(dB)	(42)	()(525)	(dB)	(dB)
NOISE FLOOR F	READINGS BE	LOW.				
8.0 GHz	45.44 Av	8.43 / 36.91 / 46.14 / -97.46	-52.82	V / 1.00 / 217	n/a	-39.82
18.0 GHz	44.49 Av	13.5 / 47.44 / 44.3 / -97.46	-36.33	V / 1.00 / 217	n/a	-23.33
END OF SCAN >	→ 1GHz.					
LOW CHANNEL						
33.185 MHz	35.05 Qp	0.45 / 19.39 / 25.16 / -97.46	-67.73	V/1.00/0	-54.73	n/a
60.092 MHz	41.1 Qp	0.6 / 11.5 / 25.2 / -97.46	-69.47	V/1.00/0	-56.47	n/a
66.455 MHz	30.8 Qp	0.7 / 9.99 / 25.25 / -97.46	-81.22	V/1.00/0	-68.22	n/a
106.098 MHz	36.9 Qp	0.81 / 9.23 / 25.3 / -97.46	-75.83	V/1.00/0	-62.83	n/a
170.185 MHz	39.55 Qp	1.09 / 8.89 / 25.29 / -97.46	-73.23	V/1.00/0	-60.23	n/a
174.82 MHz	32.45 Qp	1.1 / 9.07 / 25.22 / -97.46	-80.05	V/1.00/0	-67.05	n/a
180.226 MHz	34.7 Qp	1.1 / 9.47 / 25.13 / -97.46	-77.31	V/1.00/0	-64.31	n/a
249.328 MHz	35.8 Qp	1.34 / 11.8 / 24.6 / -97.46	-73.12	V/1.00/0	-60.12	n/a
250.282 MHz	36.8 Qp	1.34 / 11.89 / 24.6 / -97.46	-72.03	V/1.00/0	-59.03	n/a
294.92 MHz	29.75 Qp	1.5 / 13.04 / 24.6 / -97.46	-77.78	V/1.00/0	-64.78	n/a
330.423 MHz	34.55 Qp	1.55 / 14.02 / 24.5 / -97.46	-71.84	V/1.00/0	-58.84	n/a
370.48 MHz	33.1 Qp	1.61 / 15.02 / 24.37 / -97.46	-72.11	V/1.00/0	-59.11	n/a
60.092 MHz	41.95 Qp	0.6 / 11.5 / 25.2 / -97.46	-68.62	V / 1.00 / 90	-55.62	n/a
66.455 MHz	34.9 Qp	0.7 / 9.99 / 25.25 / -97.46	-77.12	V / 1.00 / 90	-64.12	n/a
180.226 MHz	35.95 Qp	1.1 / 9.47 / 25.13 / -97.46	-76.06	V / 1.00 / 90	-63.06	n/a
113.05 MHz	37.75 Qp	0.9 / 9.44 / 25.33 / -97.46	-74.7	V / 1.00 / 90	-61.7	n/a
159.973 MHz	39.5 Qp	1.0 / 8.7 / 25.39 / -97.46	-73.65	V / 1.00 / 90	-60.65	n/a

Tested by:	RMJ	Res M. John
	Printed	Signature
Reviewed by:	TKS	Thomas K. Swamon
	Printed	Signature

File No. WC501486 Rev A, Page A9 of A18

FCC ID: PHX-RSU2510F Test Report Page 37 of 57

RADIATED EMISSIONS



Test Report #:	WC501486 Run 1	Test Area:	LTS	_	,	America	
EUT Model #:	RSU2510F	Date:	3/29/2005	_			
EUT Serial #:	1223	EUT Power:	60Hz/110VAC	Temperat	ture:	23.0	°C
Test Method:	FCC B			Air Press	sure:	98.0	kPa
Customer:	NEXNET WIRELESS			Rel. Humi	dity:	24.0	%
EUT Description:	WIRELESS DATA MODEM						
Notes:	VERTICAL TRANSMIT ANTENNA -	FRANSMITTER	SPURIOUS SCAN.				
Data File Name:	1486.dat				Page:	4 of	9

List of me	asureme	nts for run #: 1				
FREQ	LEVEL	CABLE / ANT / PREAMP /	FINAL	POL/HGT/AZ	DELTA1	DELTA2
	(dBuV)	ATTEN+Substitution Factor	(dBm)	(m)(DEG)	-13 dBm QP	-13 dBm Ave
		(dB)			(dB)	(dB)
160.489 MHz	39.0 Qp	1.0 / 8.7 / 25.38 / -97.46	-74.14	V / 1.00 / 90	-61.14	n/a
179.983 MHz	37.05 Qp	1.1 / 9.45 / 25.13 / -97.46	-74.99	V / 1.00 / 90	-61.99	n/a
180.614 MHz	36.75 Qp	1.1 / 9.5 / 25.12 / -97.46	-75.23	V / 1.00 / 90	-62.23	n/a
190.001 MHz	40.75 Qp	1.15 / 10.34 / 25.04 / -97.46	-70.26	V / 1.00 / 90	-57.26	n/a
200.003 MHz	42.5 Qp	1.2 / 10.68 / 24.96 / -97.46	-68.04	V / 1.00 / 90	-55.04	n/a
210.024 MHz	38.3 Qp	1.2 / 10.53 / 24.89 / -97.46	-72.32	V / 1.00 / 90	-59.32	n/a
210.738 MHz	38.5 Qp	1.2 / 10.55 / 24.89 / -97.46	-72.1	V / 1.00 / 90	-59.1	n/a
230.054 MHz	42.15 Qp	1.3 / 11.03 / 24.72 / -97.46	-67.71	V / 1.00 / 90	-54.71	n/a
240.026 MHz	41.9 Qp	1.3 / 11.32 / 24.6 / -97.46	-67.54	V / 1.00 / 90	-54.54	n/a
400.017 MHz	41.95 Qp	1.7 / 16.07 / 24.41 / -97.46	-62.15	V / 1.00 / 90	-49.15	n/a
700.041 MHz	32.9 Qp	2.3 / 20.33 / 24.48 / -97.46	-66.41	V / 1.00 / 90	-53.41	n/a
60.092 MHz	43.6 Qp	0.6 / 11.5 / 25.2 / -97.46	-66.97	V / 1.00 / 180	-53.97	n/a
113.05 MHz	39.55 Qp	0.9 / 9.44 / 25.33 / -97.46	-72.9	V / 1.00 / 180	-59.9	n/a
180.226 MHz	36.75 Qp	1.1 / 9.47 / 25.13 / -97.46	-75.26	V / 1.00 / 180	-62.26	n/a
190.001 MHz	42.0 Qp	1.15 / 10.34 / 25.04 / -97.46	-69.01	V / 1.00 / 180	-56.01	n/a
200.003 MHz	42.8 Qp	1.2 / 10.68 / 24.96 / -97.46	-67.74	V / 1.00 / 180	-54.74	n/a
210.024 MHz	39.5 Qp	1.2 / 10.53 / 24.89 / -97.46	-71.12	V / 1.00 / 180	-58.12	n/a
330.423 MHz	37.7 Qp	1.55 / 14.02 / 24.5 / -97.46	-68.69	V / 1.00 / 180	-55.69	n/a
370.48 MHz	38.55 Qp	1.61 / 15.02 / 24.37 / -97.46	-66.66	V / 1.00 / 180	-53.66	n/a
400.017 MHz	43.3 Qp	1.7 / 16.07 / 24.41 / -97.46	-60.8	V / 1.00 / 180	-47.8	n/a
60.092 MHz	44.85 Qp	0.6 / 11.5 / 25.2 / -97.46	-65.72	V / 1.00 / 270	-52.72	n/a
	•					
MAXIMIZED.						
60.092 MHz	45.9 Qp	0.6 / 11.5 / 25.2 / -97.46	-64.67	V / 1.00 / 282	-51.67	n/a

Tested by:	RMJ	Ren M. John
	Printed	Signature
Reviewed by:	TKS	Thomas K. Swanon
	Printed	Signature

File No. WC501486 Rev A, Page A10 of A18

FCC ID: PHX-RSU2510F Page 38 of 57

RADIATED EMISSIONS



Test Report	#: _WC50148	36 Run 1	Test Area:	LTS			America	
EUT Model	#: RSU2510)F	Date:	3/29/2005				
EUT Serial	#: 1223		EUT Power:	60Hz/110VAC	Temperatu	ıre:	23.0	°C
Test Metho	d: FCC B				Air Pressu	ıre:	98.0	kPa
Custome	er: NEXNET	WIRELESS			Rel. Humic	lity:	24.0	%
EUT Descriptio	n: WIRELES	SS DATA MODEM						
Note	s: VERTICA	AL TRANSMIT ANTENNA -	TRANSMITTER	SPURIOUS SCAN.				
Data File Nam	e: _1486.dat					Page:	5 of	9
List of mea	asureme	nts for run #: 1						
FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMI ATTEN+Substitution Fac (dB)			DELTA1 -13 dBm QP (dB)		DELTA 3 dBm (dB)	Ave
END OF VERTIC	AL SCAN < 1	GHz.						
180.226 MHz	38.6 Qp	1.1 / 9.47 / 25.13 / -97.4	6 -73.41	H / 3.00 / 90	-60.41		n/a	
170.185 MHz	44.05 Qp	1.09 / 8.89 / 25.29 / -97.	46 -68.73	H / 3.00 / 270	-55.73		n/a	
180.226 MHz	40.5 Qp	1.1 / 9.47 / 25.13 / -97.4	6 -71.51	H / 3.00 / 270	-58.51		n/a	
MAXIMIZED.	10.5.0	4 00 (0 00 (05 00 (07	10 00 00	11 (4 50 (000	50.00		(-	
170.185 MHz	46.5 Qp	1.09 / 8.89 / 25.29 / -97.4	46 -66.28	H / 1.50 / 260	-53.28		n/a	
SWITCHED TO 6	MHz CHANN	EL BANDWIDTH						
168.0 MHz	40.8 Qp	1.07 / 8.8 / 25.32 / -97.4	6 -72.11	V/1.00/0	-59.11		n/a	
196.0 MHz	39.5 Qp	1.19 / 10.88 / 24.99 / -97	.46 -70.88	V/1.00/0	-57.88		n/a	
252.0 MHz	34.9 Qp	1.35 / 12.04 / 24.6 / -97.4			-60.76		n/a	
280.0 MHz	34.1 Qp	1.5 / 12.36 / 24.68 / -97.	46 -74.18	V / 1.00 / 0	-61.18		n/a	

-72.6

-76.26 -72.22

-73.83

-72.25 -77.1

-67.18

-70.9

V/1.00/0

V/1.00/0 V/1.00/0

V/1.00/0 V/1.00/0

V/1.00/0

V / 1.00 / 90 V / 1.00 / 90

Tested by:	RMJ	Par M. Johan
	Printed	Signature
Reviewed by:	TKS	Thomas K. Swamon
· ·	Printed	Signature

1.5 / 13.45 / 24.54 / -97.46

1.5 / 13.66 / 24.51 / -97.46 1.69 / 15.77 / 24.32 / -97.46 1.7 / 16.19 / 24.56 / -97.46

2.01 / 18.38 / 24.28 / -97.46 1.0 / 9.09 / 25.38 / -97.46

1.7 / 16.19 / 24.56 / -97.46 2.01 / 18.38 / 24.28 / -97.46

File No. WC501486 Rev A, Page A11 of A18

-59.6

-63.26 -59.22

-60.83

-59.25

-54.18

-57.9

n/a

n/a n/a

n/a

n/a

n/a

n/a

34.1 Qp 34.45 Qp

30.55 Qp 32.1 Qp

30.3 Qp 29.1 Qp 35.65 Qp

36.95 Qp

30.45 Qp

308.0 MHz

315.0 MHz 392.0 MHz

420.0 MHz

560.0 MHz

140.0 MHz

420.0 MHz

560.0 MHz

FCC ID: PHX-RSU2510F Page 39 of 57

RADIATED EMISSIONS



Test Report	#:_WC5014	86 Run 1	Test Area:	LTS			America	
EUT Model	#: _RSU2510	DF	Date:	3/29/2005				
EUT Serial	#: 1223		EUT Power:	60Hz/110VAC	Temperat	ture:	23.0	°C
Test Metho	d: FCC B				Air Press	sure:	98.0	kPa
Custome	er: NEXNET	WIRELESS			Rel. Humi	dity:	24.0	%
EUT Description	n: WIRELES	SS DATA MODEM						
Note	s: VERTICA	AL TRANSMIT ANTENNA - T	RANSMITTER	SPURIOUS SCAN.				
Data File Nam	e: _1486.dat					Page:	6 of	9
List of me	asureme	nts for run #: 1						
FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMF ATTEN+Substitution Fact (dB)			DELTA1 -13 dBm QI (dB)		DELT. 3 dBm (dB)	Ave
140.0 MHz	40.15 Qp	1.0 / 9.09 / 25.38 / -97.40	6 -72.6	V / 1.00 / 180	-59.6		n/a	
168.0 MHz	47.3 Qp	1.07 / 8.8 / 25.32 / -97.40	6 -65.61	V / 1.00 / 180	-52.61		n/a	
196.0 MHz	40.6 Qp	1.19 / 10.88 / 24.99 / -97.4	46 -69.78	V / 1.00 / 180	-56.78		n/a	
280.0 MHz	36.5 Qp	1.5 / 12.36 / 24.68 / -97.4	6 -71.78	V / 1.00 / 180	-58.78		n/a	
392.0 MHz	39.75 Qp	1.69 / 15.77 / 24.32 / -97.4	46 -64.57	V / 1.00 / 180	-51.57		n/a	
420.0 MHz	38.65 Qp	1.7 / 16.19 / 24.56 / -97.4	6 -65.48	V / 1.00 / 180	-52.48		n/a	
560.0 MHz	33.2 Qp	2.01 / 18.38 / 24.28 / -97.4	46 -68.15	V / 1.00 / 180	-55.15		n/a	
MAXIMIZED.					,			
168.0 MHz	47.75 Qp	1.07 / 8.8 / 25.32 / -97.4	6 -65.16	V / 1.00 / 153	-52.16		n/a	
END OF VERTIC	CAL SCAN < 1	GHz.						
179.983 MHz	39.2 Qp	1.1 / 9.45 / 25.13 / -97.4	6 -72.84	H / 3.00 / 90	-59.84		n/a	
130.146 MHz	43.55 Qp	1.0 / 8.45 / 25.48 / -97.4	6 -69.94	H / 3.00 / 270	-56.94		n/a	
MAXIMIZED.								
130.146 MHz	43.55 Qp	1.0 / 8.45 / 25.48 / -97.4	6 -69.94	H / 2.70 / 270	-56.94		n/a	
NO NEW OR HIG	GHER EMISSI	IONS FOUND WITH MIDDLE	E AND HIGH R	F CHANNELS AT ALL AZ	ZIMUTHS			
END OF SCAN 3	30 - 26000MH	Z.						

Tested by:	RMJ	Rus M. John
	Printed	Signature
Reviewed by:	TKS	Thomas K. Swamon
	Printed	Signature

File No. WC501486 Rev A, Page A12 of A18

FCC ID: PHX-RSU2510F Page 40 of 57

RADIATED EMISSIONS



Test Report #:	WC501486 Run 1	Test Area:	LTS	_	,	HIIIEIILA	
EUT Model #:	RSU2510F	Date:	3/29/2005	_			
EUT Serial #:	1223	EUT Power:	60Hz/110VAC	Tempera	ture:	23.0	°C
Test Method:	FCC B			Air Press	sure:	98.0	kPa
Customer:	NEXNET WIRELESS			Rel. Humi	idity:	24.0	%
EUT Description:	WIRELESS DATA MODEM						
Notes:	VERTICAL TRANSMIT ANTENNA -	TRANSMITTER	SPURIOUS SCAN.				
Data File Name:	1486.dat				Page:	7 of	9

Measurement summary for limit1: -13 dBm QP (Qp)								
FREQ	LEVEL	CABLE / ANT / PREAMP /	FINAL	POL/HGT/AZ	DELTA1			
	(dBuV)	ATTEN+Substitution Factor	(dBuV/m)	(m)(DEG)	-13 dBm QP			
	, ,	(dB)	` ′		(dB)			
400.017 MHz	43.3 Qp	1.7 / 16.07 / 24.41 / -97.46	-60.8	V / 1.00 / 180	-47.8			
392.0 MHz	39.75 Qp	1.69 / 15.77 / 24.32 / -97.46	-64.57	V / 1.00 / 180	-51.57			
60.092 MHz	45.9 Qp	0.6 / 11.5 / 25.2 / -97.46	-64.67	V / 1.00 / 282	-51.67			
168.0 MHz	47.75 Qp	1.07 / 8.8 / 25.32 / -97.46	-65.16	V / 1.00 / 153	-52.16			
420.0 MHz	38.65 Qp	1.7 / 16.19 / 24.56 / -97.46	-65.48	V / 1.00 / 180	-52.48			
170.185 MHz	46.5 Qp	1.09 / 8.89 / 25.29 / -97.46	-66.28	H / 1.50 / 260	-53.28			
700.041 MHz	32.9 Qp	2.3 / 20.33 / 24.48 / -97.46	-66.41	V / 1.00 / 90	-53.41			
370.48 MHz	38.55 Qp	1.61 / 15.02 / 24.37 / -97.46	-66.66	V / 1.00 / 180	-53.66			
240.026 MHz	41.9 Qp	1.3 / 11.32 / 24.6 / -97.46	-67.54	V / 1.00 / 90	-54.54			
230.054 MHz	42.15 Qp	1.3 / 11.03 / 24.72 / -97.46	-67.71	V / 1.00 / 90	-54.71			
33.185 MHz	35.05 Qp	0.45 / 19.39 / 25.16 / -97.46	-67.73	V/1.00/0	-54.73			
200.003 MHz	42.8 Qp	1.2 / 10.68 / 24.96 / -97.46	-67.74	V / 1.00 / 180	-54.74			
560.0 MHz	33.2 Qp	2.01 / 18.38 / 24.28 / -97.46	-68.15	V / 1.00 / 180	-55.15			
330.423 MHz	37.7 Qp	1.55 / 14.02 / 24.5 / -97.46	-68.69	V / 1.00 / 180	-55.69			
190.001 MHz	42.0 Qp	1.15 / 10.34 / 25.04 / -97.46	-69.01	V / 1.00 / 180	-56.01			
196.0 MHz	40.6 Qp	1.19 / 10.88 / 24.99 / -97.46	-69.78	V / 1.00 / 180	-56.78			
130.146 MHz	43.55 Qp	1.0 / 8.45 / 25.48 / -97.46	-69.94	H / 3.00 / 270	-56.94			
210.024 MHz	39.5 Qp	1.2 / 10.53 / 24.89 / -97.46	-71.12	V / 1.00 / 180	-58.12			
180.226 MHz	40.5 Qp	1.1 / 9.47 / 25.13 / -97.46	-71.51	H / 3.00 / 270	-58.51			
280.0 MHz	36.5 Qp	1.5 / 12.36 / 24.68 / -97.46	-71.78	V / 1.00 / 180	-58.78			
250.282 MHz	36.8 Qp	1.34 / 11.89 / 24.6 / -97.46	-72.03	V / 1.00 / 0	-59.03			
210.738 MHz	38.5 Qp	1.2 / 10.55 / 24.89 / -97.46	-72.1	V / 1.00 / 90	-59.1			
308.0 MHz	34.45 Qp	1.5 / 13.45 / 24.54 / -97.46	-72.6	V/1.00/0	-59.6			
140.0 MHz	40.15 Qp	1.0 / 9.09 / 25.38 / -97.46	-72.6	V / 1.00 / 180	-59.6			
179.983 MHz	39.2 Qp	1.1 / 9.45 / 25.13 / -97.46	-72.84	H / 3.00 / 90	-59.84			

Tested by:	RMJ	Res M. John
	Printed	Signature
Reviewed by:	TKS	Thomas K. Swamon
-	Printed	Signature

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RADIATED EMISSIONS



Test Report #:	WC501486 Run 1	Test Area:	LTS	_	,	America	
EUT Model #:	RSU2510F	Date:	3/29/2005	_			
EUT Serial #:	1223	EUT Power:	60Hz/110VAC	Tempera	ture:	23.0	°C
Test Method:	FCC B			Air Press	sure:	98.0	kPa
Customer:	NEXNET WIRELESS			Rel. Hum	idity:	24.0	%
EUT Description:	WIRELESS DATA MODEM						
Notes:	VERTICAL TRANSMIT ANTENNA -	TRANSMITTER	SPURIOUS SCAN.				
Data File Name:	1486.dat				Page:	8 of	9

Measurement summary for limit1: -13 dBm QP (Qp)								
FREQ	LEVEL	CABLE / ANT / PREAMP /	FINAL	POL/HGT/AZ	DELTA1			
	(dBuV)	ATTEN+Substitution Factor	(dBuV/m)	(m)(DEG)	-13 dBm QP			
		(dB)			(dB)			
113.05 MHz	39.55 Qp	0.9 / 9.44 / 25.33 / -97.46	-72.9	V / 1.00 / 180	-59.9			
249.328 MHz	35.8 Qp	1.34 / 11.8 / 24.6 / -97.46	-73.12	V / 1.00 / 0	-60.12			
159.973 MHz	39.5 Qp	1.0 / 8.7 / 25.39 / -97.46	-73.65	V / 1.00 / 90	-60.65			
252.0 MHz	34.9 Qp	1.35 / 12.04 / 24.6 / -97.46	-73.76	V/1.00/0	-60.76			
160.489 MHz	39.0 Qp	1.0 / 8.7 / 25.38 / -97.46	-74.14	V / 1.00 / 90	-61.14			
180.614 MHz	36.75 Qp	1.1 / 9.5 / 25.12 / -97.46	-75.23	V / 1.00 / 90	-62.23			
106.098 MHz	36.9 Qp	0.81 / 9.23 / 25.3 / -97.46	-75.83	V / 1.00 / 0	-62.83			
315.0 MHz	30.55 Qp	1.5 / 13.66 / 24.51 / -97.46	-76.26	V/1.00/0	-63.26			
66.455 MHz	34.9 Qp	0.7 / 9.99 / 25.25 / -97.46	-77.12	V / 1.00 / 90	-64.12			
294.92 MHz	29.75 Qp	1.5 / 13.04 / 24.6 / -97.46	-77.78	V/1.00/0	-64.78			
174.82 MHz	32,45 Qp	1.1 / 9.07 / 25.22 / -97.46	-80.05	V/1.00/0	-67.05			

Tested by:	RMJ	Res M. John
	Printed	Signature
Reviewed by:	TKS	Thomas K. Swanon
	Printed	Signature

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RADIATED EMISSIONS

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Test Report #:	WC501486 Run 1	Test Area:	LTS	_	,	America	
EUT Model #:	RSU2510F	Date:	3/29/2005	_			
EUT Serial #:	1223	EUT Power:	60Hz/110VAC	Tempera	ture:	23.0	°C
Test Method:	FCC B			Air Press	sure:	98.0	kPa
Customer:	NEXNET WIRELESS			Rel. Humi	dity:	24.0	%
EUT Description:	WIRELESS DATA MODEM						
Notes:	VERTICAL TRANSMIT ANTENNA -	TRANSMITTER	SPURIOUS SCAN.				
Data File Name:	1486.dat				Page:	9 of	9

Measurement summary for limit2: -13 dBm Ave (Av)						
FREQ	LEVEL	CABLE / ANT / PREAMP /	FINAL	POL/HGT/AZ	DELTA2	
	(dBuV)	ATTEN+Substitution Factor	(dBuV/m)	(m)(DEG)	-13 dBm	
		(dB)			Ave(dB)	
5.15 GHz	51.9 Av	6.59 / 33.6 / 40.21 / -87.26	-35.38	V / 1.15 / 230	-22.38	
18.0 GHz	44.49 Av	13.5 / 47.44 / 44.3 / -97.46	-36.33	V / 1.00 / 217	-23.33	
4.998 GHz	51.4 Av	6.5 / 33.39 / 40.59 / -87.26	-36.56	V / 1.24 / 203	-23.56	
5.375 GHz	50.2 Av	6.72 / 33.91 / 40.28 / -87.36	-36.81	V / 1.30 / 183	-23.81	
7.725 GHz	43.07 Av	8.23 / 36.74 / 41.09 / -87.36	-40.42	V / 1.00 / 217	-27.42	
7.874 GHz	39.42 Av	8.28 / 36.83 / 40.29 / -87.36	-43.11	V / 1.30 / 183	-30.11	
7.497 GHz	40.63 Av	8.14 / 36.59 / 41.18 / -87.46	-43.28	V / 1.00 / 217	-30.28	
8.0 GHz	45.44 Av	8.43 / 36.91 / 46.14 / -97.46	-52.82	V / 1.00 / 217	-39.82	
5.375 GHz	58.25 Pk	6.72 / 33.91 / 40.28 / -87.36	-28.76	V / 1.30 / 183	-15.76*	
5.15 GHz	60.55 Pk	6.59 / 33.6 / 40.21 / -87.26	-26.73	V / 1.00 / 217	-13.73*	
4.998 GHz	65.3 Pk	6.5 / 33.39 / 40.59 / -87.26	-22.66	V / 1.00 / 217	-9.66*	

^{*} Denotes a peak measurement compared to an average limit.

Tested by:	RMJ	for M. John
	Printed	Signature
Reviewed by:	TKS	Thomas K. Swamon
	Printed	Signature

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RADIATED EMISSIONS



Test Report	#: WC50148	86 Run 3	Test Area:	LTS		
EUT Model	#: _RSU2510	DF	Date:	3/29/2005		
EUT Serial	#: 1223		EUT Power:	60Hz/110VAC	Temperature:	23.0_ °C
Test Metho	d: FCC 2.10	053			Air Pressure:	98.0_ kPa
Custome	er: <u>NEXNET</u>	WIRELESS			Rel. Humidity:	24.0 %
EUT Descriptio	n: WIRELES	SS DATA MODEM				
Note	s: HORIZO	NTAL TRANSMIT ANTENNA	- TRANSMIT	TER SPURIOUS SCAN.		
Data File Nam	ie: <u>1486.dat</u>				Pag	ge: 1 of 3
List of me	asureme	nts for run #: 3				
FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN+Substitution Facto (dB)		POL / HGT / AZ (m)(DEG)	DELTA1 -13 dBm Ave (dB)	DELTA2
* Denotes a peak	measuremen	t compared to average limit.				
LOW RF CHANN	IEL					
MAXIMIZED.						
4.998 GHz	51.82 Av	6.5 / 33.29 / 44.64 / -87.26		H / 1.80 / 211	-27.3	n/a
4.998 GHz	68.15 Pk	6.5 / 33.29 / 44.64 / -87.26		H / 1.80 / 211	-10.96*	n/a
7.497 GHz	46.21 Av	8.14 / 36.45 / 45.65 / -87.46		H / 1.28 / 166	-29.31	n/a
7.497 GHz	52.6 Pk	8.14 / 36.45 / 45.65 / -87.46	6 -35.92	H / 1.28 / 166	-22.92*	n/a
MIDDLE DE CLI	NINITI					
MIDDLE RF CHA		0.50 /00 50 / 44 05 / 07 0	0 40.00	11/400/00	00.00	
5.149 GHz	45.17 Av	6.59 / 33.53 / 44.65 / -87.20			-33.62	n/a
5.149 GHz	70.15 Pk	6.59 / 33.53 / 44.65 / -87.26			-8.64*	n/a
7.724 GHz	44.69 Av	8.23 / 36.53 / 44.94 / -87.36			-29.85	n/a
7.725 GHz	57.95 Pk	8.23 / 36.53 / 44.95 / -87.36	-29.6	H / 1.74 / 161	-16.6*	n/a
HI RF CHANNEL						
5.375 GHz	52.39 Av	6.72 / 33.88 / 44.78 / -87.36	39.14	H / 1.30 / 60	-26.14	n/a
5.375 GHz	75.8 Pk	6.72 / 33.88 / 44.78 / -87.36			-20.14 -2.73*	п/а
8.062 GHz	50.76 Av	8.53 / 36.72 / 45.79 / -87.20			-24.03	n/a
8.062 GHz	58.3 Pk	8.53 / 36.72 / 45.78 / -87.20			-16.49*	n/a
10.749 GHz	50.79 Av	9.98 / 37.99 / 44.78 / -97.46			-30.48	n/a
10.749 GHz	55.0 Pk	9.98 / 37.99 / 44.78 / -97.46		H/1.00/1	-26.27*	n/a
10.740 0112	35.0 T K	0.007 07.007 44.707 -07.40	-30.27	117 1.007 1	-20.27	100
MIDDLE RF CHA	NNEL					
10.3 GHz	51.0 Av	9.84 / 37.93 / 44.95 / -97.46	-43.64	H / 1.00 / 158	-30.64	n/a
Tested by:		RMJ Printed	#	Signature		
				•		

Thomas K. Swanon

Signature

File No. WC501486 Rev A, Page A16 of A18

Reviewed

by:

TKS

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RADIATED EMISSIONS



Test Report #:	WC501486 Run 3	Test Area:	LTS	-	,	America	
EUT Model #:	RSU2510F	Date:	3/29/2005	-			
EUT Serial #:	1223	EUT Power:	60Hz/110VAC	Temperat	ure:	23.0	°C
Test Method:	FCC 2.1053			Air Press	ure:	98.0	kPa
Customer:	NEXNET WIRELESS			Rel. Humi	dity:	24.0	%
EUT Description:	WIRELESS DATA MODEM						
Notes:	HORIZONTAL TRANSMIT ANTENN	A- TRANSMIT	TER SPURIOUS SCAN.				
Data File Name:	1486.dat				Page:	2 of	3

List of measurements for run #: 3							
FREQ	LEVEL (dBuV)	CABLE / ANT / PREAMP / ATTEN+Substitution Factor (dB)	FINAL (dBm)	POL / HGT / AZ (m)(DEG)	DELTA1 -13 dBm Ave (dB)	DELTA2	
10.3 GHz	54.1 Pk	9.84 / 37.93 / 44.95 / -97.46	-40.54	H / 1.00 / 158	-27.54*	n/a	
NOISEFLOOR N	MEASUREMEN	IT.					
18.0 GHz	43.51 Av	13.5 / 45.42 / 45.08 / -97.46	-40.11	H / 1.00 / 0	-27.11	n/a	
END OF SCAN 3	30 - 26000MHz	,					

Tested by:	RMJ	for M. John
	Printed	Signature
Reviewed by:	TKS	Thomas K. Swanon
-	Printed	Signature

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Appendix C

MEASUREMENT PROTOCOL FOR FCC

GENERAL INFORMATION

Conducted and radiated emission testing is performed according to the procedures in TIA-603-B.

Measurement Uncertainty

The test system for conducted emissions is defined as the LISN, tuned receiver or spectrum analyzer, and coaxial cable. The test system for radiated emissions is defined as the antenna, the pre-amplifier, the spectrum analyzer and the coaxial cable. These test systems have a measurement uncertainty of ± 4.8 dB. The equipment comprising the test systems are calibrated on an annual basis.

<u>Justification</u>

The Equipment Under Test (EUT) is configured in a typical user arrangement in accordance with the manufacturer's instructions. A cable is connected to each available port and either terminated with a peripheral into it's characteristic impedance or left unterminated. When appropriate, the cables are manually manipulated with respect to each other to obtain maximum emissions from the unit.

CONDUCTED EMISSIONS

The final level, expressed in $dB\mu V$, is arrived at by taking the reading directly from the EMI receiver. This level is compared directly to the FCC limit. Conducted and radiated emission testing is performed according to the procedures in ANSI C.63.4-2001.

To convert between dB μ V and μ V, the following conversions apply:

 $dB\mu V = 20(log \mu V)$ $\mu V = Inverse log(dB\mu V/20)$

RADIATED EMISSIONS

The final level, expressed in $dB\mu V/m$, is arrived at by taking the reading from the spectrum analyzer (Level $dB\mu V$), adding the antenna correction factor and cable loss factor (Factor dB) to it, then subtracting the preamp gain. This result then has the FCC limit subtracted from it to provide the Delta which gives the tabular data as shown in the data sheets in Attachment A.

_			
Exa	m	p	e

FREQ	LEVEL	CABLE/ANT/PREAMP FINAL (dB) (dB/m) (dB) (dBuV/m)	POL/HGT/AZ	DELTA1
(MHz)	(dBuV)		(m) (deg)	FCC
60.80	42.5Qp	+ 1.2 + 10.9 - 25.5 = 29.1	V 1.0 0.0	-10.9

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TÜV PRODUCT SERVICE INC 19333 Wild Mountain Road Taylors Falls MN 55084-1758 Tel: 651 638 0297 Fax: 651 638 0298 Rev.No 1.0

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DETAILS OF TEST PROCEDURES

General Standard Information

The test methods used comply with TIA-603-B

Conducted Emissions

Conducted emissions on the 60 Hz power interface of the EUT are measured in the frequency range of 450 kHz to 30 MHz. The measurements are performed using a receiver, which has CISPR characteristic bandwidth and quasi-peak detection, and a Line Impedance Stabilization Network (LISN), with 50 Ω/50 μH (CISPR 16) characteristics. Table top equipment is placed on a non-conducting table 80 centimeters above the floor and is positioned 40 centimeters from the vertical ground plane (wall) of the screen room. In some cases, a pre-scan using a spectrum analyzer is initially performed on the units comprising the system under test to locate the highest emissions. If the minimum passing margin appears to be less than 20 dB with a peak mode measurement, the emissions are re-measured using a tuned receiver or spectrum analyzer with quasi-peak and average detection and recorded on the data sheets.

Radiated Emissions

Radiated emissions from the EUT are measured in the frequency range of 30 to 26000 MHz using a spectrum analyzer and appropriate broadband linearly polarized antennas. Table top equipment is placed on a 1.0 X 1.5 meter nonconducting table 80 centimeters above the ground plane. Floor standing equipment is placed directly on the turntable/ground plane. Interface cables that are closer than 40 centimeters to the ground plane are bundled in the center in a serpentine fashion so they are at least 40 centimeters from the ground plane. Cables to simulators/testers (if used in this test) are routed through the center of the table and to a screen room located outside the test area. The antenna is positioned 3 meters horizontally from the EUT. To locate maximum emissions from the test sample the antenna is varied in height from 1 to 4 meters, measurement scans are made with both horizontal and vertical antenna polarizations and the EUT are rotated 360 degrees. The EUT is then replaced with a tuned dipole antenna (below 1 GHZ) or horn antenna (above 1 GHz). The substitute antenna was placed in the same polarization as the test antenna. A signal generator was used to generate a signal level that matched the level measured from the EUT. The signal level minus the cable loss from the signal generator to the substitute antenna plus the substitute antenna gain equals the spurious power level.

SUBSTITUTION ANTENNA

The substitution antenna is used to replace the EUT for tests in which a transmitting parameter (i.e. frequency error, effective radiated power, spurious emissions and adjacent channel power) is being measured. The substitution antenna is connected to a calibrated signal generator. The frequency of the calibrated signal generator is set to the frequency of the emission component detected. The test antenna is raised and lowered through the specified range of height to ensure the maximum signal is received. The input signal to the substitution antenna shall be adjusted to the level that produces a level detected by the measuring receiver, that is equal to the level noted while the emission component was measured, corrected for any change of input attenuator setting of the measuring receiver. The input level to the substitution antenna is recorded as power level, corrected for any change of input attenuator setting of the measuring

File No. WC501486 Rev A, Page C2 of C2

TÜV PRODUCT SERVICE INC 19333 Wild Mountain Road

Taylors Falls MN 55084-1758 Tel: 651 638 0297 Fax: 651 638 0298 Rev.No 1.0

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Frequency Stability Test

FCC Rule Part(s):

2.1055 Measurements required: Frequency stability:

- (a) The frequency stability shall be measured with variation of ambient temperature as follows: (1) From -30° to $+50^{\circ}$ centigrade for all equipment except that specified in paragraphs (a) (2) and (3) of this section.
- (b) Frequency measurements shall be made at the extremes of the specified temperature range and at intervals of not more than 10° centigrade through the range. A period of time sufficient to stabilize all of the components of the oscillator circuit at each temperature level shall be allowed prior to frequency measurement. The short term transient effects on the frequency of the transmitter due to keying (except for broadcast transmitters) and any heating element cycling normally occurring at each ambient temperature level also shall be shown.
- (d) The frequency stability shall be measured with variation of primary supply voltage as follows: (1) Vary primary supply voltage from 85 to 115 percent of the nominal value for other than hand carried battery equipment. (3) The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided. Effects on frequency of transmitter keying (except for broadcast transmitters) and any heating element cycling at the nominal supply voltage and at each extreme also shall be shown.

27.54 Frequency Stability:

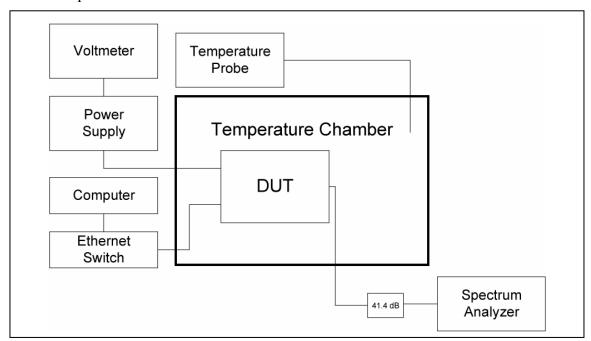
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

Standard: 47CFR27.53(1)(3)

Test Procedure:

The frequency stability of the NextNet Wireless Mobile Subscriber Unit fundamental oscillator is derived from the on board 20 MHz TCXO. Since each radio channel operating frequency is synthesized and referenced to the 20 MHz TCXO, only one channel will be reported for frequency stability as all channels will have the same frequency characteristics. The emissions 1 MHz above and below the channel band were recorded to show compliance to the emission limit of 47CFR27.53(1)(3). The emission power 1 MHz above and below the channel edge was measured by utilizing the adjacent channel power function in the spectrum analyzer. The transmitted signal was recorded for frequency changes due to temperature variation and input voltage.

Test Set-Up:



Frequency Stability Test Setup

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Frequency Stability Temperature Variation Test Results

Test Conditions: Frequency = 2575 MHz

Supply Voltage: 13.0 VDC Nominal

Temperature: -30° C to $+50^{\circ}$ C in 10° C increments

	Adjacent Channel Power Method (2575 MHz)							
	Lower	Upper						
	Adjacent	Adjacent				Result:	Result:	
	1 MHz Bin	1 MHz Bin		Lower	Upper	Lower	Upper	
	Power	Power	Spec	Margin	Margin	Adjacent	Adjacent	
Temp ° C	(dBm)	(dBm)	(dBm/MHz)	(dB)	(dB)	1 MHz Bin	1 MHz Bin	
-30	-16.01	-15.53	-13	-3.01	-2.53	Complies	Complies	
-20	-16.24	-16.23	-13	-3.24	-3.23	Complies	Complies	
-10	-16.62	-16.31	-13	-3.62	-3.31	Complies	Complies	
0	-15.85	-15.78	-13	-2.85	-2.78	Complies	Complies	
10	-15.21	-15.06	-13	-2.21	-2.06	Complies	Complies	
20	-16.14	-15.81	-13	-3.14	-2.81	Complies	Complies	
30	-15.72	-15.68	-13	-2.72	-2.68	Complies	Complies	
40	-14.95	-15.11	-13	-1.95	-2.11	Complies	Complies	
50	-15.86	-15.73	-13	-2.86	-2.73	Complies	Complies	

Test Results: Pass Frequency Stability - Temperature Variation

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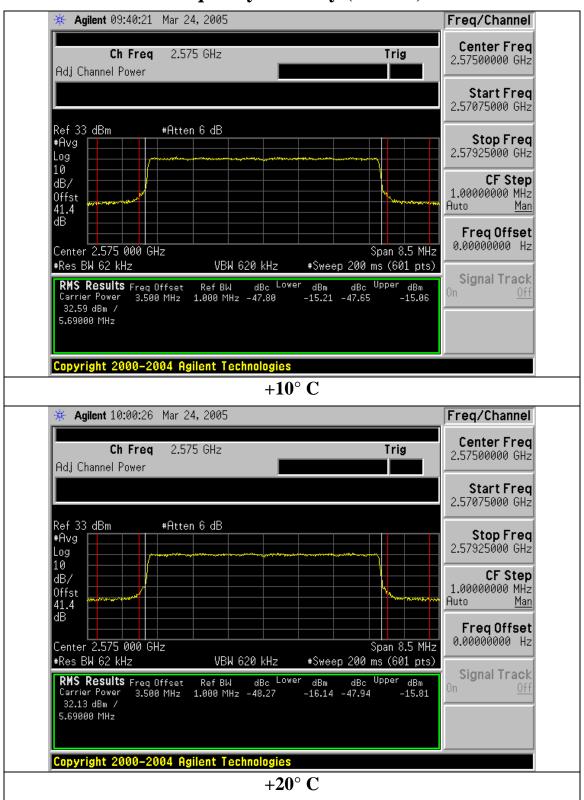
Frequency Stability Temperature Variation Spectrum Analyzer Plots



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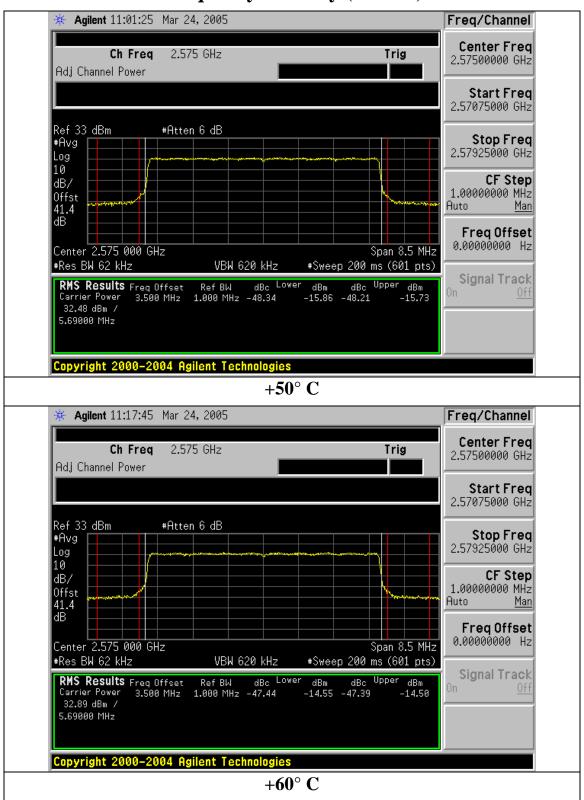
FCC ID: PHX-RSU2510F Test Report Page 52 of 57



FCC ID: PHX-RSU2510F Test Report Page 53 of 57



FCC ID: PHX-RSU2510F Test Report Page 54 of 57



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Frequency Stability Supply Voltage Variation Test Results

Test Conditions: Frequency = 2575 MHz

Temperature = 20° C

Source Input Voltage Specification: 13.0 VDC nominal Test Voltage Range = 0.85 * 13.0 = 11.05 VDC lower limit

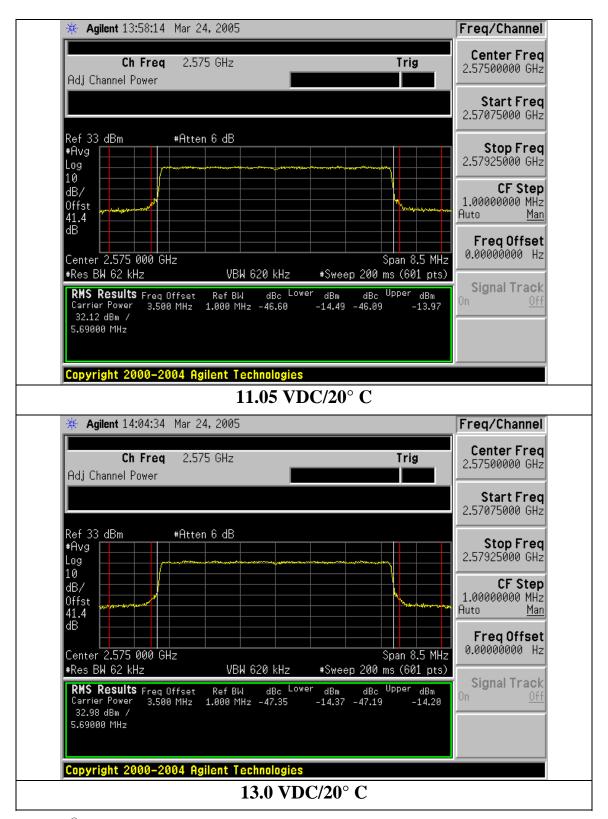
1.15 * 13.0 = 14.95 VDC upper limit

Adjacent Channel Power Method 20° C (2575 MHz)							
0	Lower Adjacent	Upper Adjacent				Result:	Result:
Source	1 MHz Bin	1 MHz Bin		Lower	Upper	Lower	Upper
Voltage	Power	Power	Spec	Margin	Margin	Adjacent	Adjacent
(Vdc)	(dBm)	(dBm)	(dBm/MHz)	(dB)	(dB)	1 MHz Bin	1 MHz Bin
11.05	-14.49	-13.97	-13	-1.49	-0.97	Complies	Complies
13	-14.37	-14.2	-13	-1.37	-1.2	Complies	Complies
14.95	-14.51	-14.52	-13	-1.51	-1.52	Complies	Complies

Test Results: Pass Temperature Stability - Supply Voltage Variation

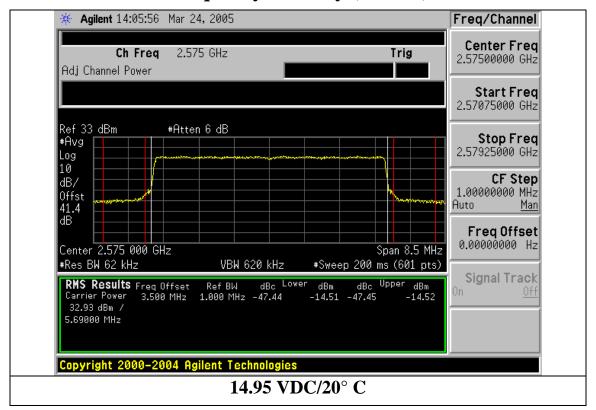
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Frequency Stability Voltage Variation Spectrum Analyzer Plots



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Frequency Stability (Cont'd)



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