Nemko Test Report:	4L0618RUS1rev6
Applicant:	Navini Networks 2240 Campbell Creek Blvd. Suite 110 Richardson, TX 75082
Equipment Under Test: (E.U.T.)	2500-2686 MHz LCD Modem
In Accordance With:	FCC PART 27, Subpart M Broadband Radio Service and Educational Broadband Service
Tested By:	Nemko Dallas Inc. 802 N. Kealy Lewisville, Texas 75057-3136
Authorized By:	Dustin Oaks, Engineer
Date:	5/17/2005

Table of Contents

Section 1.	Summary of Test Results	3
Section 2.	General Equipment Specification	5
Section 3.	RF Power Output	7
Section 4.	EIRP Power	8
Section 5.	Occupied Bandwidth	10
Section 6.	Spurious Emissions at Antenna Terminals	12
Section 7.	Field Strength of Spurious	
Section 8.	Frequency Stability	22
Section 9.	Test Equipment List	
ANNEX A -	- TEST DETAILS	34
ANNEX B -	- TEST DIAGRAMS	40

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FCC PART 27, SUBPART M

Broadband Radio Service and Educational Broadband Service

EQUIPMENT: 2500-2686 MHz LCD Modem

PROJECT NO.:4L0618RUS1rev6

Section 1.	Summary of Test Results		
Manufacturer:	Navini Networks		
Model No.:	2500-2686 MHz LCD Modem		
Serial No.:	None		
General:	All measurements are traceab	le to na	ational standards.
	conducted on a sample of the equinpliance with FCC Part 27, Subpar	•	for the purpose of
New Submis	ssion		Production Unit
Class II Per	missive Change		Pre-Production Unit
THIS ⁻	TEST REPORT RELATES ONLY TO	THE IT	EM(S) TESTED.

THE FOLLOWING DEVIATIONS FROM, ADDITIONS TO, OR EXCLUSIONS FROM THE TEST SPECIFICATIONS HAVE BEEN MADE. NONE

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This report applies only to the items tested.

PROJECT NO.:4L0618RUS1rev6

Summary Of Test Data

NAME OF TEST	PARA. NO.	SPEC. LIMIT	RESULT
RF Power Output	2.1046	33 dBW + 10log(X/Y) dBW	Complies
Occupied Bandwidth	2.1049	5.5 MHz	Complies
Spurious Emissions @ Antenna	2.1051	-13 dBm	Complies
Terminals			
Field Strength of Spurious Radiation	2.1053	-13 dBm	Complies
Frequency Stability	2.1055	Must remain within	Complies
		authorized bandwidth	-

Footnotes:

X is the actual channel width in MHz and Y is either 6 MHz if prior to transition or the station is in the MBS following transition or 5.5 MHz if the station is in the LBS and UBS following transition

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FCC PART 27, SUBPART M

Broadband Radio Service and Educational Broadband Service

EQUIPMENT: 2500-2686 MHz LCD Modem

PROJECT NO.:4L0618RUS1rev6

Section 2. General Equipment Specification

Power Supply	120 Vac						
Frequency Range (See note below):	2501 to 2685 MHz						
Type(s) of Modulation:	F3E (Voice)	F1D	F2D	D7W (QAM)	F9W		
Emission Designator:	2M00F9W						
Output Impedance:	50 ohms						
RF Power Output: EIRP Patch: EIRP Upright: EIRP Window Mount:	35.4 dBm (3.45 Watts)						
Duty Cycle:	50% TDD						
Selection Of Operating Frequency:	Not selectable by	operator					
Power Output Adjustment Capability:	Not selectable by operator						

EQUIPMENT: 2500-2686 MHz LCD Modem

PROJECT NO.:4L0618RUS1rev6

Description of EUT

Navini's Wireless Modem is a sleek end-user wireless terminal device used to give the user access to Navini's wireless broadband network.

System Diagram

Refer to separate exhibit.

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Broadband Radio Service and Educational Broadband Service

EQUIPMENT: 2500-2686 MHz LCD Modem

PROJECT NO.:4L0618RUS1rev6

Section 3. RF Power Output

NAME OF TEST: RF Power Output PARA. NO.: 2.1046

TESTED BY: David Light DATE: 04/28/2005

Test Results: Complies

Measurement Data: See Tables.

Test Equipment: 1628, 1474

MAX RF POWER OUTPUT

Freq	Power (dBm)	Power (Watts)
Low	30.24	1.0
Mid	30.24	1.0
High	30.24	1.0

RF POWER at mask edges

THE TO THE HE MAISH CASE						
Freq	Power (dBm)	Power (Watts)				
Low	28.12	0.649				
Mid	28.12	0.649				
High	28.12	0.649				

Note:

Power is reduced at mask edges to comply with mask requirements, see mask plots for details.

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Broadband Radio Service and Educational Broadband Service

EQUIPMENT: 2500-2686 MHz LCD Modem PROJECT NO.:4L0618RUS1rev6

Section 4. EIRP Power

NAME OF TEST: RF Power Output PARA. NO.: 2.1046

TESTED BY: David Light DATE: 10/13/2004

Test Results: Complies

Measurement Data: See Tables.

Page 8 of 43

Test Data - EIRP



Dallas Headquarters:

802 N. Kealy Lewisville, TX 75057 Tel: (972) 436-9600 Fax: (972) 436-2667

		<u>Carrier EIRP</u>	
Page 1	of <u>1</u>		Complete X
Job No.:	4L0618	Date: 10/13/04	Preliminary
Specification:	PT27	Temperature(°C): <u>22</u>	
Tested By:	David Light	Relative Humidity(%) 40	

E.U.T.: CPE
Configuration: TX

Configuration: TX
Sample No: 1

 Location:
 AC 3
 RBW:
 3 MHz
 Measurement

 Detector Type:
 Average
 VBW:
 3 MHz
 Distance:
 3 m

Test Equipment Used

Measurement Uncertainty:

1304 Directional Coupler: Antenna: Pre-Amp: Cable #1: Filter: Cable #2: 1485 Receiver: 1464 Cable #3: Attenuator #1 Cable #4: Attenuator #2: Mixer: Additional equipment used:

+/-1.7 dB

Frequency	Meter Reading	Correction Factor	Pre-Amp Gain	Substitution Antenna Gain	EIRP	EIRP	Polarity	Comments
(MHz)	(dBm)	(dB)	(dB)	(dBi)	(dBm)	(mW)		
								Patch Antenna
2502	-8.7	35.6	0	10.1	37.0	4988.84	V	
2502	-21.8	34.6	0	10.1	22.9	196.34	Н	
2600	-10.5	35.6	0	10.1	35.2	3296.10	V	
2600	-23.0	34.6	0	10.1	21.7	148.94	Н	
2684	-8.5	35.6	0	10.1	37.2	5223.96	V	
2684	-19.8	34.6	0	10.1	24.9	311.17	Н	
								Upright Antenna
2502	-10.5	35.6	0	10.1	35.2	3296.10	V	
2502	-20.5	34.6	0	10.1	24.2	264.85	Н	
2600	-11.7	35.6	0	10.1	34.0	2500.35	V	
2600	-18.7	34.6	0	10.1	26.0	400.87	Н	
2684	-10.3	35.6	0	10.1	35.4	3451.44	V	
2684	-15.8	34.6	0	10.1	28.9	781.63	Н	
								Window Mount Ant.
2502	-6.0	35.6	0	10.1	39.7	9289.66	V	
2502	-19.3	34.6	0	10.1	25.4	349.14	Н	
2600	-7.0	35.6	0	10.1	38.7	7379.04	V	
2600	-22.0	34.6	0	10.1	22.7	187.50	Н	
2684	-5.4	35.6	0	10.1	40.3	10665.96	V	
2684	-18.6	34.6	0	10.1	26.1	410.20	Н	
Notes:	3 dB was s	subtracted for a	verage value.	•		•		

Nemko USA FCC PART 27, SUBPART M

Broadband Radio Service and Educational Broadband Service

EQUIPMENT: 2500-2686 MHz LCD Modem PROJECT NO.:4L0618RUS1rev6

Section 5. Occupied Bandwidth

NAME OF TEST: Occupied Bandwidth PARA. NO.: 2.1049

TESTED BY: David Light DATE: 02/21/2005

Test Results: Complies

Measurement Data: See attached plots.

Page 10 of 43

Test Data - Occupied Bandwidth



Dallas Headquarters: 802 N. Kealy Lewisville, TX 75057 Tel: (972) 436-9600 Fax: (972) 436-2667

Nemko Dallas, Inc. Data Plot **Occupied Bandwidth** Page <u>1</u> of <u>1</u> Complete Job No.: Date: ____2/21/2004 Preliminary: Specification: PT27 Temperature(°C): 22 Tested By: Relative Humidity(%) David Light E.U.T.: LCD CPE Configuration: Sample Number: Location: Lab 1 RBW: 20 kHz Measurement VBW: 200 kHz Distance: NA Detector Type: Rms Test Equipment Used Antenna: Directional Coupler: Pre-Amp: Cable #1: Filter: Cable #2: 1036 Receiver: Cable #3: Attenuator #1 Cable #4: Attenuator #2: 1471 Additional equipment used: +/-1.7 dB Measurement Uncertainty: RBU 20 dB Ref Lvl 4.18 dB VBW 200 kHz 18.8 dBm 1.96392786 MHz SWT 64 ms Un i t 18.7 21.5 dB Offset [T1] - 1 1 .71 dBn A GHz 10 [T1] 18 dB 1.96392 786 MHz FRO - 10 1VIEW 1RM -20 -30 -40 -50 -60 -70 Center 2.54 GHz Span 10 MHz 1 MHz/ 21.FEB.2005 16:32:36 Date: Notes:

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FCC PART 27, SUBPART M

Broadband Radio Service and Educational Broadband Service

EQUIPMENT: 2500-2686 MHz LCD Modem

PROJECT NO.:4L0618RUS1rev6

Spurious Emissions at Antenna Terminals Section 6.

NAME OF TEST: Spurious Emissions @ Antenna PARA. NO.: 2.1051

Terminals

TESTED BY: David Light DATE: 4/28/2005

Complies **Test Results:**

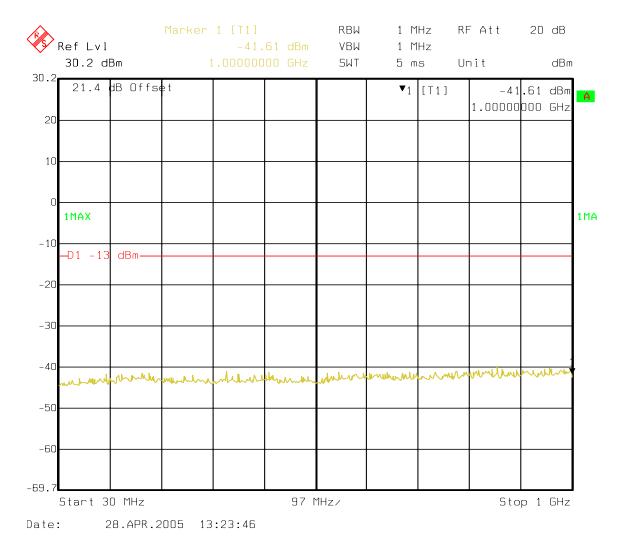
Measurement Data: See attached plots.

Test Equipment: 1036, 1628, 1474

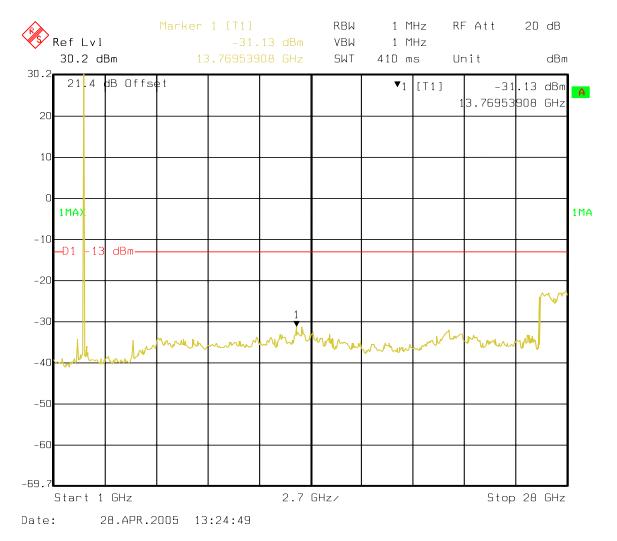
Notes: Device operating at 2.6GHz and 30dBm conducted power. Frequency Range scanned

from 9kHz to 28GHz.

Test Data – Spurious Emissions at Antenna Terminals



PROJECT NO.:4L0618RUS1rev6



Test Data - Spurious Emissions at Antenna Terminals - Emissions Mask

Explanation of Mask Testing Method

The Navini networks system is comprised of a BTS which occupies 5 MHz of spectrum, a CPE which occupies 2MHz, and a PCMCIA card which occupies 1 MHz. Since the channels are spaced at 5.5MHz that leaves .25 MHz of guard band on both the upper and lower edges of the Channel for the BTS.

Within the 5 MHz of spectrum which the BTS occupies we have ten 500 KHz carriers (please see figure below). Of these ten carriers the CPE will use only 4 carriers.

When the CPE occupies carriers C0,C1,C2, and C3 or carriers C6, C7, C8, and C9 the power at the antenna port is 28 dBm avg. To show compliance the mask is reduced from 5.5 MHz wide to 2.5 MHz wide. By placing the signal in the center of this mask we are able to show compliance to both the upper and lower edges of the channel. If however the CPE occupies carriers C2, C3, C4, and C5 or carriers C4, C5, C6, and C7 then the power at the antenna port is increased to 30dBm avg. In this case the mask is increased to 4.5 MHz. In doing so we shall show compliance to both the upper and lower edges of the Channel with a 1.25Mhz guard band at both edges.

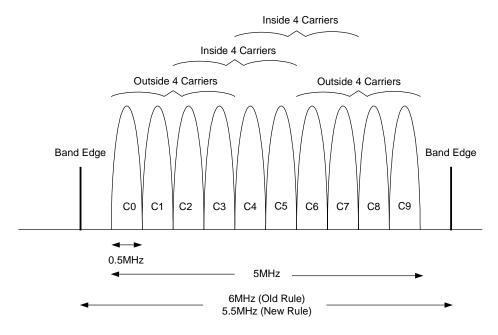
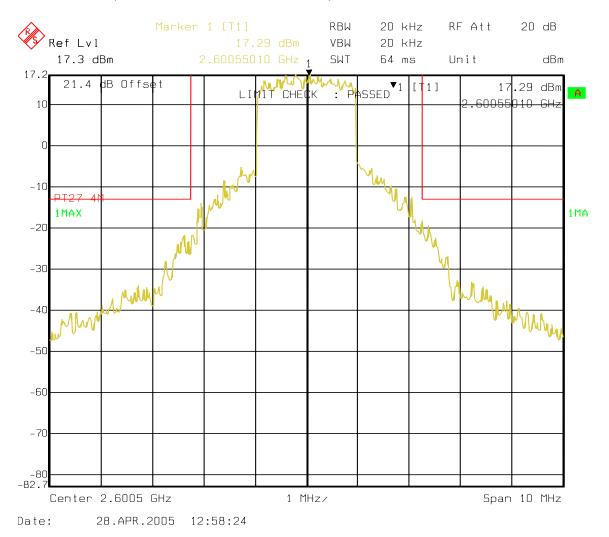
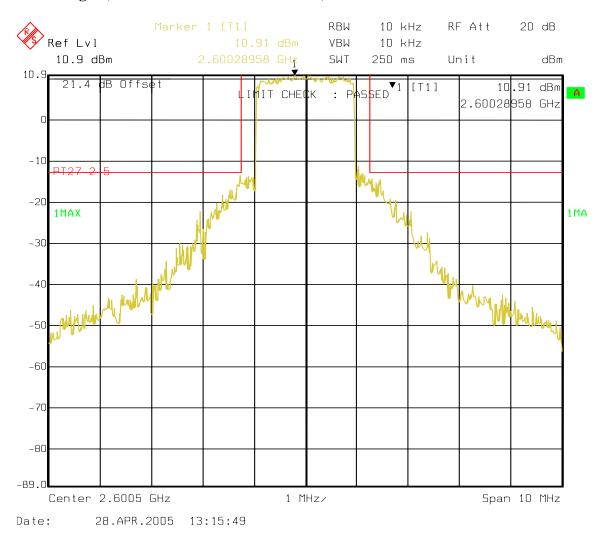


Figure 1. 4-Carrier Signal

Mask Center (Conducted Power at 30.24dBm)



Mask Edges (Conducted Power at 28.12dBm)



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FCC PART 27, SUBPART M

Broadband Radio Service and Educational Broadband Service

EQUIPMENT: 2500-2686 MHz LCD Modem

PROJECT NO.:4L0618RUS1rev6

Section 7. Field Strength of Spurious

NAME OF TEST: Field Strength of Spurious Emissions PARA. NO.: 2.1053

TESTED BY: David Light DATE: 02/21/2005

Test Results: Complies

Measurement Data: See attached table.

Test Data - Radiated Emissions



Dallas Headquarters:

802 N. Kealy Lewisville, TX 75057 Tel: (972) 436-9600 Fax: (972) 436-2667

N	lem	ko l	Dal	las,	Inc.

			Field	Strength o	f Spuri	ious Emi	issions		
Page <u>1</u> o	f <u>1</u>			~ · g · ·	- ~ F			X	_
Job No.:	4L0618		Date:	10/14/04			Preliminary		_
Specification:	PT27		Temperature(°C):	25					
Tested By:	David Light		Relative Humidity(%)	45					
E.U.T.:	CPE					_			
Configuration:	TX					_			
Sample No:	1								
Location:	AC 3	i		RBW:	1 MHz	_	Measurement		
Detector Type:	Peak			VBW:	1 MHz	_	Distance:	3	m
Test Equipr	nent Used								
Antenna:		•	D	irectional Coupler: Cable #1:		_			
Pre-Amp:	1016	•		Cable #1: _	1484	_			
Filter:	1482	•		Cable #2:	1485	_			
Receiver:	1464	•		Cable #3:		_			
Attenuator #1				Cable #4:		_			
Attenuator #2:				Mixer:		_			
Additional equip						_			
Measurement Un	certainty:	+/- 1.7 dB	-						
Frequency	Meter	Correction	Pre-Amp	Substitution		EIRP	EIRP	Polarity	Comments
	Reading	Factor	Gain	Antenna Gain					
(MHz)	(dBm)	(dB)	(dB)	(dBi)		(dBm)	(mW)		
									Tx @ 2600 MHz
									Upright Ant
5200	-45.8	40.6	32.3	11.2		-26.3	0.00	V	
10400	-54.5	41.0	34.7	12.7		-35.6	0.00	V	
5200	-48.8	36.3	32.3	9.1		-35.8	0.00	H	
10400	-52.5	42.5	34.7	10.5		-34.2	0.00	Н	
13000	-63.2	47.5	33.7	11.2		-38.3	0.00	Н	
									Patch Antenna
5200	-54.3	40.6	32.3	11.2		-34.8	0.00	V	
10400	-57.8	41.0	34.7	12.7		-38.9	0.00	V	
5200	-53.3	36.3	32.3	9.1		-40.3	0.00	Н	
10400	-53.3	42.5	34.7	10.5		-35.0	0.00	Н	
13000	-61.8	47.5	33.7	11.2		-36.9	0.00	Н	
	The spectr	um was searc	hed to the 10th harmo	nic. All emissions	were report	ed			_
			<u> </u>	<u> </u>	·				

Test Data - Radiated Emissions

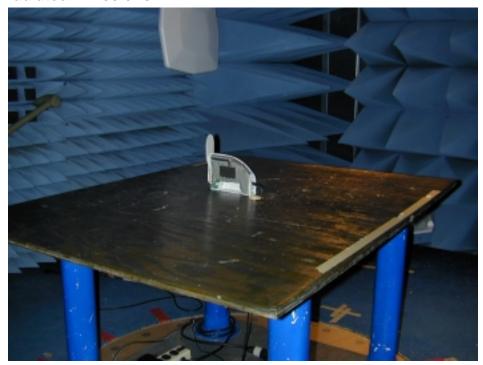
	em	ko
Namko Dallas	Inc	

Dallas Headquarters: 802 N. Kealy Lewisville, TX 75057 Tel: (972) 436-9600 Fax: (972) 436-2667

			Field S	trength of S	purious l	Emissions			
Page <u>1</u> c	of 1							X	
Job No.:	4L0618		Date:	Date: 2/22/05			Preliminary		_
Specification:	PT27 Temperature(°C): 22						,		-
Tested By:	David Light Relative Humidity(%) 40								
E.U.T.:	LCD CPE		• • • •						
Configuration:	TX					-			
Sample No:	1					_			
Location:	AC 3			RBW:	1 MHz		Measurement		
Detector Type:	Peak			VBW:	1 MHz		Distance	3	<u>B</u> m
Test Equipm	ent Used								
Antenna:	1304		D	irectional Coupler:					
Pre-Amp:	1016		_	Cable #1:	1484	-			
Filter:	1482			Cable #2:	1485	-			
Receiver:	1036			Cable #3:		-			
Attenuator #1				Cable #4:		•			
Attenuator #2:				Mixer:		-			
Additional equip	ment used:			_		•			
Measurement U		+/- 1.7 dB				-			
Frequency	Meter	Correction	Pre-Amp	Substitution		EIRP	EIRP	Polarity	Comments
	Reading	Factor	Gain	Antenna Gain					
(MHz)	(dBm)	(dB)	(dB)	(dBi)		(dBm)	(mW)		
									Tx @ 2600 MHz
									Window Mount Ant.
5200	-39.4	36.3	32	11.2		-23.9	0.00	Н	
10400	-55.2	42.5	35.3	12.7		-35.3	0.00	Н	
5200	-41.0	40.6	32	11.2		-21.2	0.01	V	
10400	-57.0	41.0	35.3	12.7		-38.7	0.00	V	
		ne spectrum 30 M							_

The spectrum was searched from 30 MHz to the 10th harmonic of the carrier.

Photos – Radiated Emissions





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FCC PART 27, SUBPART M

Broadband Radio Service and Educational Broadband Service

EQUIPMENT: 2500-2686 MHz LCD Modem PROJECT NO.:4L0618RUS1rev6

Section 8. Frequency Stability

NAME OF TEST: Frequency Stability PARA. NO.: 2.1055

TESTED BY: David Light DATE: 2/21/2005

Test Results: Complies

Measurement Data: See attached plots.

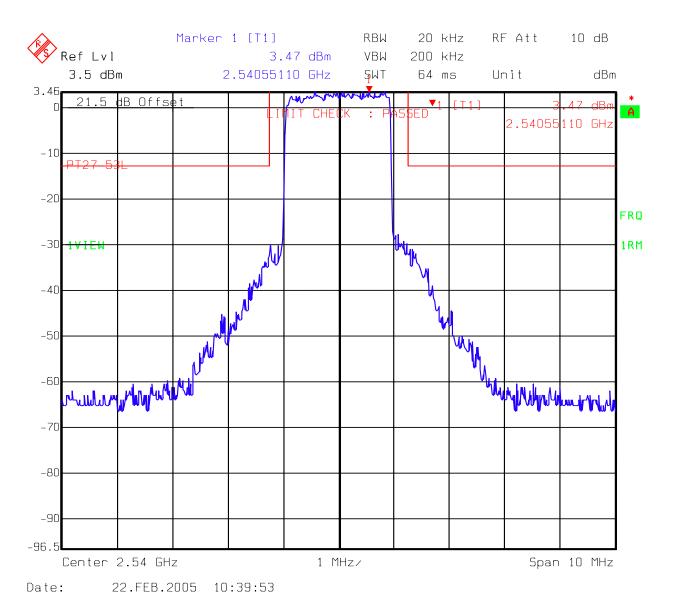
Test Equipment Used: 1036-1469-1474-1625-283-619

Standard Supply Voltage: 120 Vac

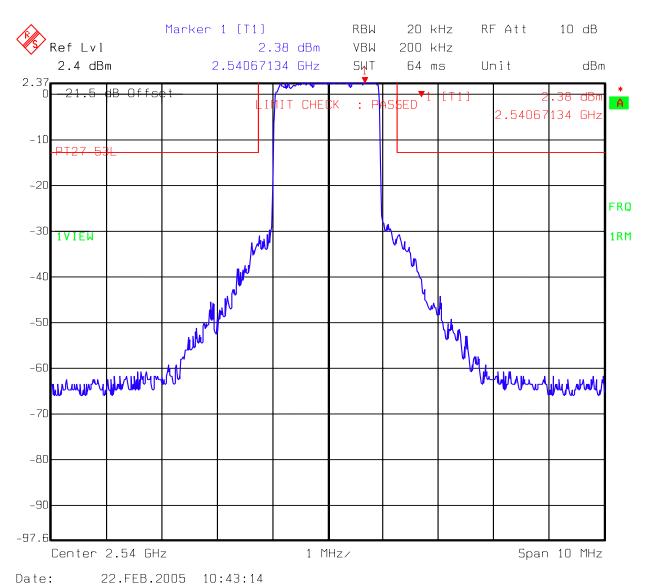
Environmental Conditions: 20 °Celsius

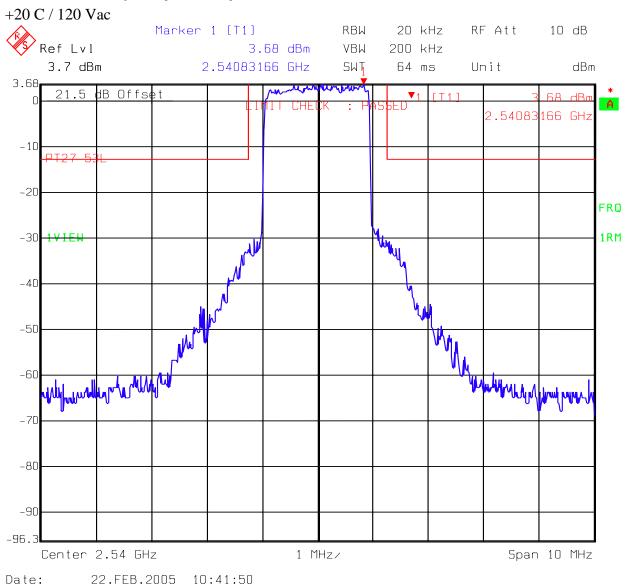
50 % RH

+20 C / 102 Vac

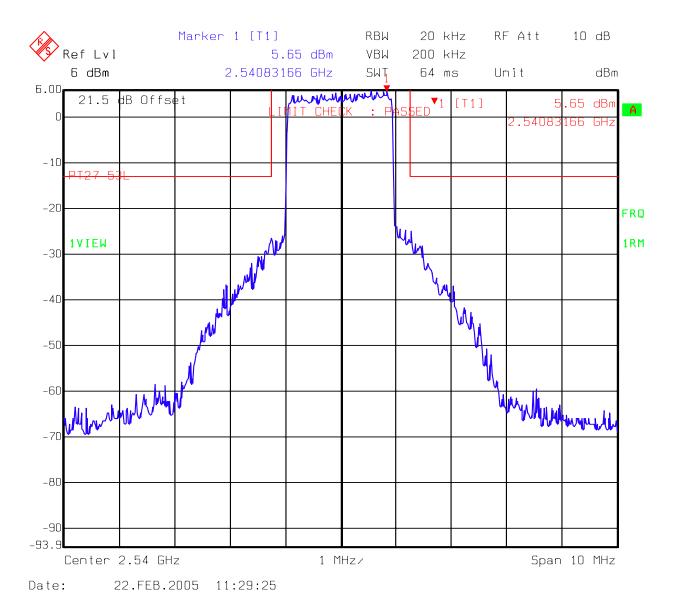


+20 C/ 138 Vac

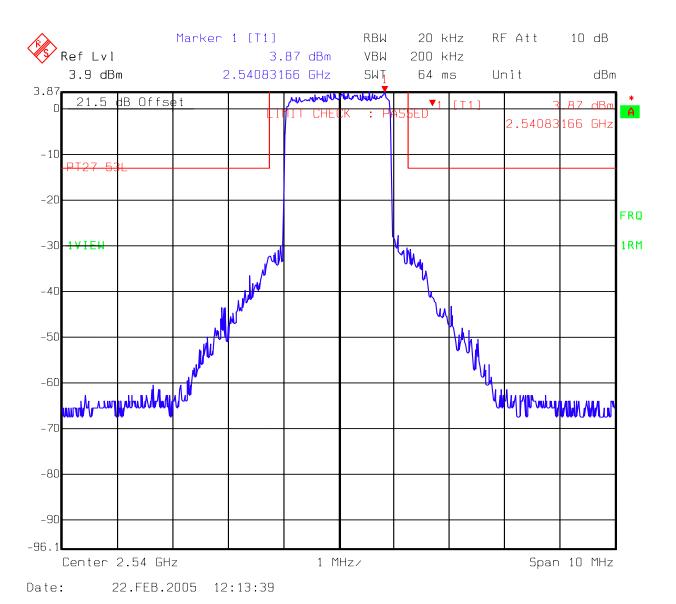




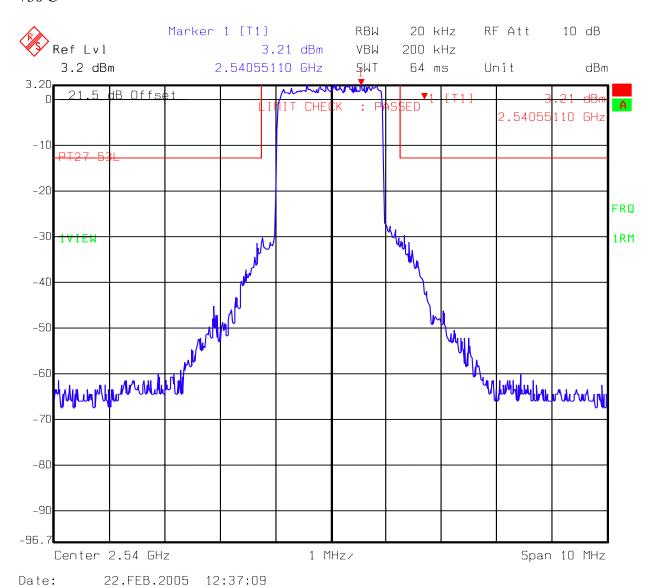
+50 C



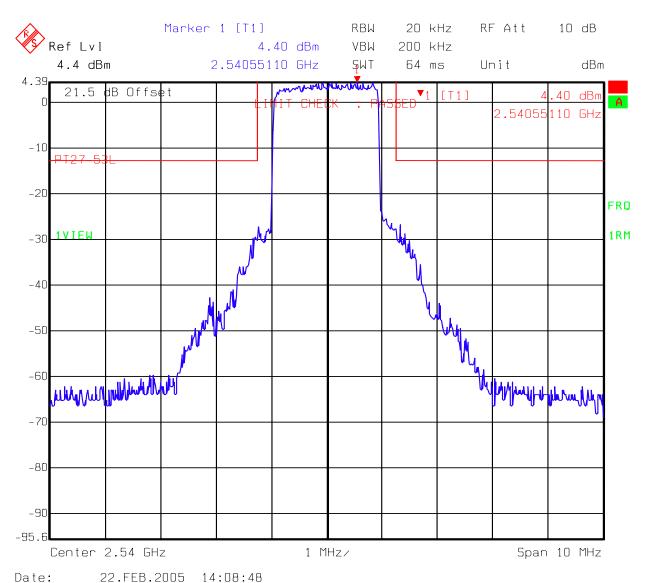
+40 C



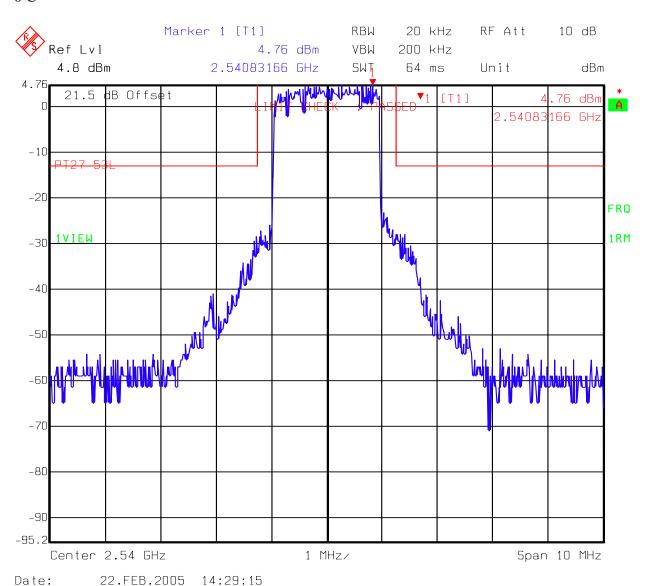
+30 C



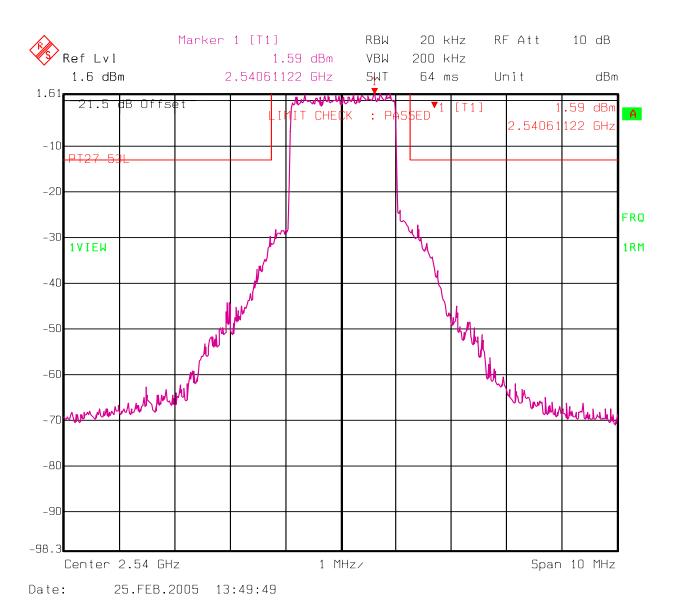
10 C



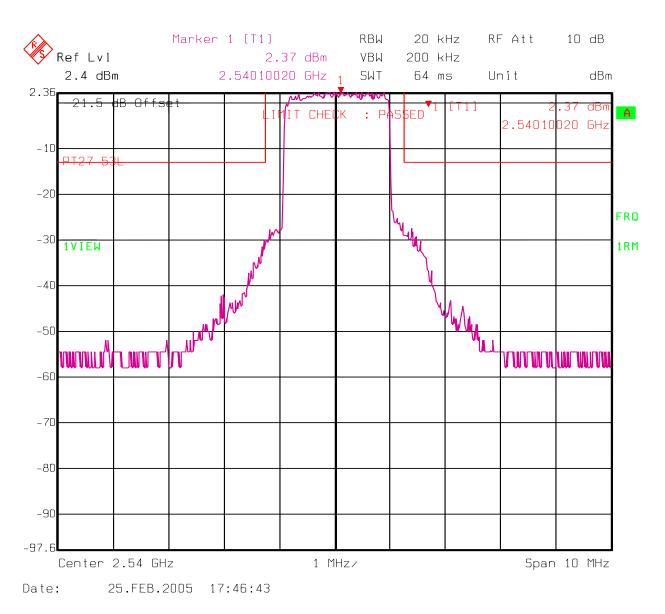
0 C



-10 C



-20 C



The unit ceased operation below -20C

Section 9. Test Equipment List

Nemko ID	Description	Manufacturer Model Number	Serial Number	Calibration Date	Calibration Due
1304	HORN ANTENNA	ELECTRO METRICS RGA-60	6151	09/22/03	09/22/05
1016	Pre-Amp	HEWLETT PACKARD 8449A	2749A00159	11/12/04	11/12/05
1464	Spectrum analyzer	Hewlett Packard 8563E	3551A04428	07/30/04	07/31/06
1484	Cable 2.0-18.0 Ghz	Storm PR90-010-072	N/A	08/26/04	08/26/05
1485	Cable 2.0-18.0 Ghz	Storm PR90-010-216	N/A	08/02/04	08/02/05
759	ANTENNA, LOG PERIODIC	A.H. SYSTEMS SAS-200/510	556	07/23/04	07/23/05
760	Antenna biconical	Electro Metrics MFC-25	477	06/22/04	06/22/05
791	PREAMP, 25dB	ICC LNA25	398	11/12/04	11/12/05
1983	CABLE	KTL Site A OATS	N/A	03/11/04	03/11/05
1036	SPECTRUM ANALYZER	ROHDE & SCHWARZ FSEK30	830844/006	03/22/04	03/23/06
1064	ATTENUATOR	NARDA 776B-20	NONE	CBU	N/A
1628	CABLE, 6 ft	MEGAPHASE TM26 S1S5 72	N/A	CBU	CBU
1482	Band Pass Filter	K & L 11SH10-4000/T12000-0/0	2	Cal B4 Use	N/A
1469	10 db Attenuator DC 18 Ghz	MCL Inc. BW-S10W2 10db-2WDC	NONE	CBU	N/A
1474	20db Attenuator DC 18 Ghz	MCL Inc. BW-S20W2	NONE	CBU	N/A
1625	CABLE, 18 ft	MEGAPHASE 10311 1GVT4	N/A	08/02/04	08/02/05
283	Environmental Chamber with controller # 1189006	ENVIROTRONICS SH27 & 2030-22844	129010083	04/22/03	04/21/04
619	THERMOMETER	FLUKE 51	4520028	09/16/04	09/16/05

Nemko USA

FCC PART 27, SUBPART M

Broadband Radio Service and Educational Broadband Service

EQUIPMENT: 2500-2686 MHz LCD Modem

PROJECT NO.:4L0618RUS1rev6

ANNEX A - TEST DETAILS

Page 34 of 43

NAME OF TEST: RF Power Output

PARA. NO.: 2.1046

Method Of Measurement:

Antenna Conducted:

The peak power at antenna terminals is measured using a Spectrum Analyzer or Power Meter. Power output is measured with the maximum rated input level.

E.I.R.P.:

If the antenna is not detachable from the circuit then the Peak Power Output is derived from the peak radiated field strength of the fundamental emission by using the plane wave relation $GP/4\pi R^2 = E^2/120\pi$ and proceeding as follows:

$$P = \frac{E^2 R^2}{30G} = \frac{E^2 3^2}{30G}$$

where,

P = the equivalent isotropic radiated power in watts

E = the maximum measured field strength in V/m

R = the measurement range (3 meters)

G = the numeric gain of the transmit antenna in relation to an isotropic radiator

EQUIPMENT: 2500-2686 MHz LCD Modem PROJECT NO.:4L0618RUS1rev6

NAME OF TEST: Occupied Bandwidth PARA. NO.: 2.1049

Method Of Measurement:

A portion of the transmitted signal is coupled to a Spectrum Analyzer with a resolution bandwidth of at least 1% of the bandwidth of the transmitted signal. The resolution bandwidth is chosen so as not to reduce the peak level of the measured waveform.

The appropriate bandwidth mask is applied to the output waveform to verify compliance.

Page 36 of 43

EQUIPMENT: 2500-2686 MHz LCD Modem PROJECT NO.:4L0618RUS1rev6

NAME OF TEST: Spurious Emission at Antenna PARA. NO.: 2.1051

Terminals

Antenna Conducted:

A portion of the transmitted signal is coupled to a Spectrum Analyzer with a resolution bandwidth of 1 MHz for emissions above 1 GHz. Below 1 GHz the resolution bandwidth is chosen so as not to reduce the peak level of the measured waveform.

The appropriate limit line is applied to the output waveform to verify compliance.

NAME OF TEST: Field Strength of Spurious Radiation PARA. NO.: 2.1053

Test Method: TIA/EIA-603-1992, Section 2.2.12

The antenna substitution method was used to determine the equivalent radiated power at spurious frequencies. The spurious emissions were measured at a distance of 3 meters. The EUT was then replaced with a reference substitution antenna with a known gain referenced to an isotropic.. This antenna was fed with a signal at the spurious frequency. The level of the signal was adjusted to repeat the previously measured level. The resulting eirp is the signal level fed to the reference antenna corrected for gain referenced to an isotropic.

EQUIPMENT: 2500-2686 MHz LCD Modem PROJECT NO.:4L0618RUS1rev6

NAME OF TEST: Frequency Stability 2.1055

Method Of Measurement:

Frequency Stability With Voltage Variation:

The E.U.T. is placed in an environmental chamber and allowed to stabilize at +20 degrees Celsius for at least 15 minutes. The frequency counter and signal generator are phase locked with the same 10 MHz reference frequency by connecting the 10 MHz ref. out of the counter to the 10 MHz ref, in of the signal generator. With the voltage input to the E.U.T. set to 85% S.T.V., the frequency is measured in 30 second intervals for a period of 5 minutes. This procedure is repeated at 100% S.T.V. and 115% S.T.V.

Frequency Stability With Temperature Variation:

The input voltage to the E.U.T. is set to S.T.V. and the temperature of the environmental chamber is varied in 10 degree steps from -30 degrees C to +50 degrees C. The E.U.T. is allowed to stabilize at each temperature and the frequency is measured in 30 second intervals for a period of 5 minutes.

Nemko USA

FCC PART 27, SUBPART M

Broadband Radio Service and Educational Broadband Service

EQUIPMENT: 2500-2686 MHz LCD Modem

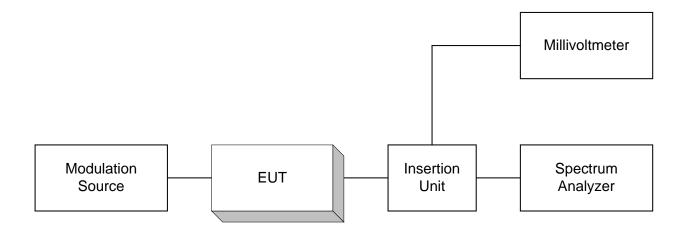
PROJECT NO.:4L0618RUS1rev6

ANNEX B - TEST DIAGRAMS

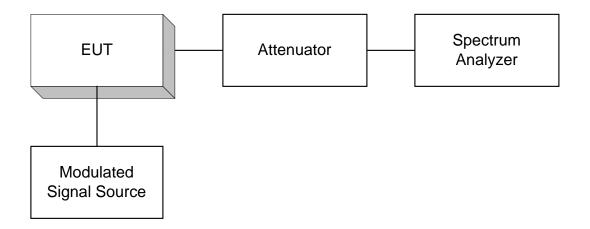
Page 40 of 43

PROJECT NO.:4L0618RUS1rev6

Para. No. 2.1046 - R.F. Power Output



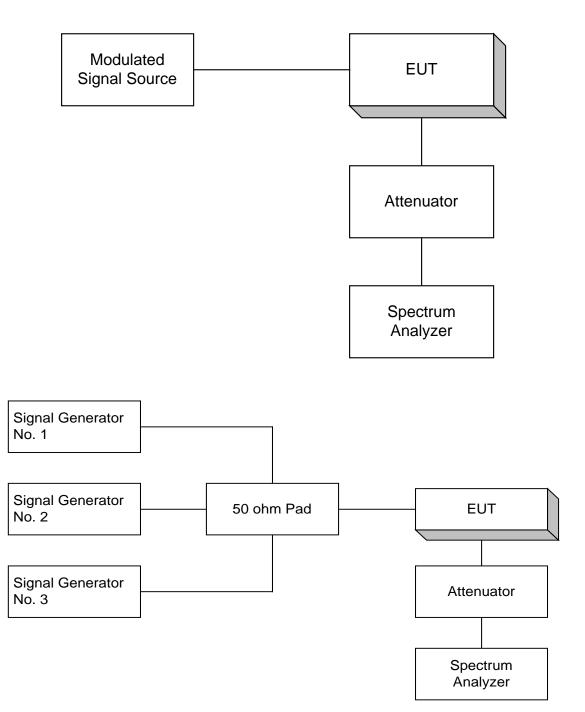
Para. No. 2.1049 - Occupied Bandwidth



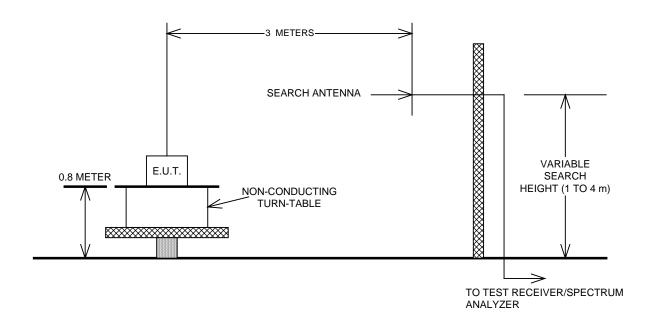
EQUIPMENT: 2500-2686 MHz LCD Modem

PROJECT NO.:4L0618RUS1rev6

Para. No. 2.1051 - Spurious Emissions at Antenna Terminals



Para. No. 2.1053 - Field Strength of Radiation



Para. No. 2.1055 - Frequency Stability

