Curtis-Straus Test Report

Report No EE0676-1

> Client Enterasys Networks Inc.

> > 35 E Industrial Way Rochester, NH 03687

978-684-1009 Phone

FRN 0006-9167-61

Model RBTBH-R2W (as installed in RBTRC-MZ)

FCC ID QXO-RBTBHR2W

Equipment Type Unlicensed National Information Infrastructure and Digitally Modulated **Equipment Code**

NII and DTS

Results As detailed within this report

Prepared by

Authorized by Michael Buchholz – EMC Manager

Issue Date 9/14/04

Conditions of issue This Test Report is issued subject to the conditions stated in 'terms and conditions' section of this report.

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Summary

This test report supports an application for certification of a transmitter operating pursuant to 47 CFR 15.247 and 15.407. The product is the Enterasys RoamAbout 802.11a/b/g wireless radio card (Model RBTBH-R2W) with range extender (non-amplified external antenna, Model RBTBH-IA) as installed in the RoamAbout wireless LAN access point (Model RBTRC-MZ). The access point is populated with two of these wireless PCMCIA LAN cards which have the ability to operate in both the 802.11a range (see table below) as well as the 802.11b/g range (2400-2483.5MHz). When the access point is running with two cards, each card operates in a single range different from the other.

U-NII Bands							
Frequency Range	Usage						
(GHz)	Limitations						
5.15-5.25	Indoor use; no						
	range extender						
5.25-5.35	N/A						
5.725-5.825	N/A						

One or the other of the cards is always populated with the range extender, which is effective in both the 2.4GHz, and 5GHz frequency ranges. The maximum directional gain of the internal antenna is 3dBi in the 2.4GHz range, and 5dBi in the 5GHz range. The directional gain of the range extender is <0.75dBi in the 2.4GHz range, and <4dBi in the 5GHz range.

Test Methodology

Radiated emissions testing is performed according to the procedures specified in ANSI C63.4 (2003). FCC's "Guidance on Measurements for Digital Transmission Systems Section 15.247" and "Guidelines for Assessing Unlicensed National Information Infrastructure (U-NII) Devices – Part 15, Subpart E" were followed for testing as well. Radiated emissions were maximized by rotating the EUT (including the range extender) around three orthogonal axes as well as varying the receiving antenna's height and polarity. The internal antenna cannot be maximized separately.

Frequency range investigated: 0.15MHz – 40GHz

Measurement distance: 0.15 - 30MHz Conducted

30MHz – 18GHz 3m 18 – 26.5GHz 1m 26.5 – 40GHz 0.1m

AC Line conducted emissions testing was performed with a $50\Omega/50\mu H$ LISN.



Statement of Conformity

The RoamAbout wireless LAN card has been found to conform with the following parts of 47 CFR as detailed below:

Part 2	Part 15	Comments
	15.15(b)	There are no controls that adjust the power level on this device.
2.925	15.19	The label is shown in the label exhibit.
	15.21	Information to the user is shown in the instruction manual exhibit.
	15.27	No special accessories are required for compliance.
	15.203	The antenna connector on this device is an MMCX connector.
	15.205 15.209	The fundamental is not in a Restricted band and the spurious and harmonic emissions in the Restricted bands comply with the general emission limits of 15.209.
	15.207	The unit meets the AC conducted emissions requirements of 15.207.
	15.247	The unit complies with the digitally modulated transmitter requirements of 15.247
	15.407	The unit complies with the U-NII requirements of 15.407.



EUT Configurations

Conducted Measurements

EUT Configuration

Work Order: E0676

Company: Enterasys Networks Company Address: 35 E Industrial Way

Rochester, NH 03687

Contact: John Ballew

MN SN

EUT: RBTBH-R2W 04UT99280220

EUT Description: 802.11a/b/g wireless LAN card

EUT Max Frequency: 5825MHz

Support Equipment:MNSNIBM ThinkPad laptopType 2373-14U99-RCM82

EUT Cables:QtyShielded?LengthFerritesMMCX-to-SMA adaptor1Yes2"No

Unpopulated EUT Ports: Qty Reason

none

Software / Operating Mode Description:

RF Engineering Tool Version 0.01 Build 74

Using diag software to set the output power, channel, data rate, and modulation type.



Radiated Measurements

EUT Configuration

Work Order: E0676

Company: Enterasys Networks
Company Address: 35 E Industrial Way

Rochester, NH 03687

Contact: John Ballew

MN SN

EUT: RBTRC-MZ 337102040268320A

I.T.E. Power Supply: PW118

Wireless Cards Installed: RBTBH-R2W 04UT99280220

RBTBH-R2W 04UT99280218

EUT Description: 802.11a/b/g Wireless LAN Access Point

EUT Max Frequency: 5825MHz

Support Equipment:MNSNIBM ThinkPad laptop*Type 2373-14U99-RCM82Digital HiNote VP laptopTS31D2U62301834

EUT communicating with:

IBM ThinkPad laptop Type 2373-14U 99-GRUGD 802.11a/b/g wireless card RBTBG-AX 03321314210A

*Mapped as H drive

EUT Cables:	Qty	Shielded?	Length	Ferrites
ethernet	1	No	9m	No
serial	1	No	3m	No
DC power	1	No	2m	No

Unpopulated EUT Ports: Qty Reason

none

Software / Operating Mode Description:

Using Digital laptop with HyperTerminal to set the Access Point's channel. Running a script on the wireless networked IBM laptop which is transferring a group of files to and from the other IBM laptop by way of an ethernet cable connected to the Access Point.



15.247 - 6dB Bandwidth

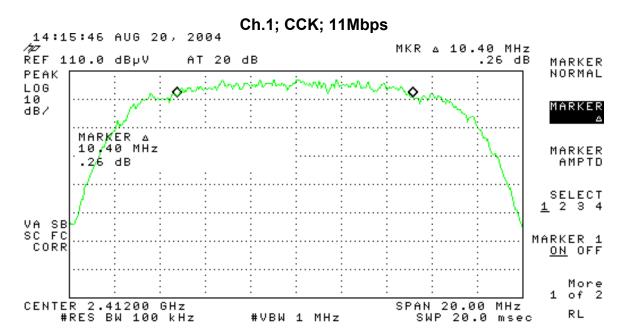
REQUIREMENT

"Systems using digital modulation techniques may operate in the 902 – 928 MHz, 2400 – 2483.5 MHz, and 5725 – 5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz." [15.247(a)(2)]

MEASUREMENTS

The smallest 6dB bandwidth measurement taken was **10.1MHz**. The settings were: Channel 11; CCK modulation; 11Mbps

SAMPLE ANALYZER PLOT





15.247 - Peak Output Power

LIMIT

"For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt" [15.247(b)(3)]

1 Watt = 30 dBm

Since the maximum directional gain of this device is less than 6dBi, there is no corresponding reduction of the peak output power limit. [15.247(b)(4)]

	20-Aug-04	•	Company:	Enterasys		Vork Order:	aus LLC E0676
Engineer:	Evan Gould		EUT:	802.11a/b/g wire	less LAN card		
Power Meter:	HP 435B		Dongle:	MMCX-to-SMA a	daptor		
Notes:	EUT is set to	continuous transm	nit at highest out	put power			
					47 (CFR 15.247(b)(3)
Ch. / Mod. / Data Rate (Mbps)	Center Frequency (MHz)	Measured Peak Output Power (dBm)	Dongle Factor	Adjusted Peak Output Power (dBm)	Limit (dBm)	Margin (dB)	Result (Pass/Fail)
1 / CCK / 1	2412	13.2	0.25	13.45	30.00	-16.55	Pass
1 / CCK / 11	2412	13.2	0.25	13.45	30.00	-16.55	Pass
1 / OFDM / 6	2412	14.8	0.25	15.05	30.00	-14.95	Pass
1 / OFDM / 54	2412	12.2	0.25	12.45	30.00	-17.55	Pass
7 / CCK / 1	2442	13.3	0.25	13.55	30.00	-16.45	Pass
7 / CCK / 11	2442	13.3	0.25	13.55	30.00	-16.45	Pass
7 / OFDM / 6	2442	14.9	0.25	15.15	30.00	-14.85	Pass
7 / OFDM / 54	2442	12.2	0.25	12.45	30.00	-17.55	Pass
11 / CCK / 1	2462	12.9	0.25	13.15	30.00	-16.85	Pass
11 / CCK / 11	2462	12.8	0.25	13.05	30.00	-16.95	Pass
11 / OFDM / 6	2462	14.7	0.25	14.95	30.00	-15.05	Pass
11 / OFDM / 54	2462	12.0	0.25	12.25	30.00	-17.75	Pass



15.247 - Conducted Spurious Emissions

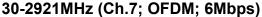
REQUIREMENT

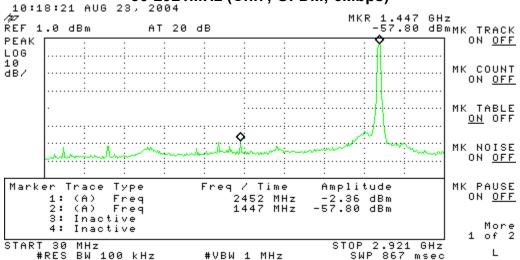
"In any 100kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power..." [15.247(c)]

MEASUREMENTS

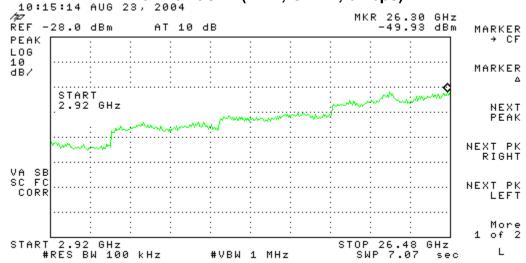
As can be seen in the following analyzer plots, conducted spurious emissions as well as conducted band edge measurements meet the above requirement.

ANALYZER PLOTS

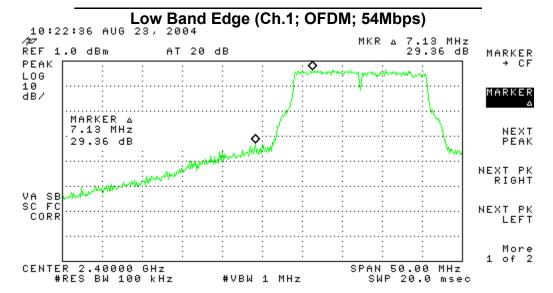




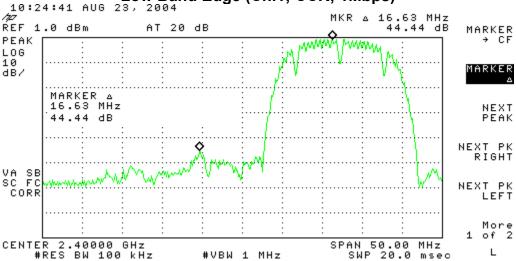
2.92-26.48GHz (Ch.7; OFDM; 6Mbps)



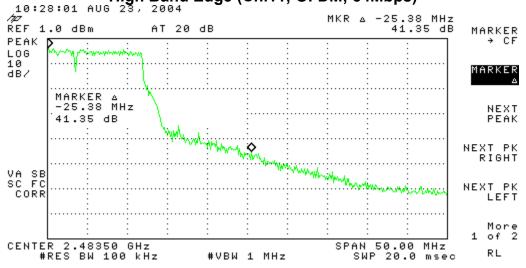




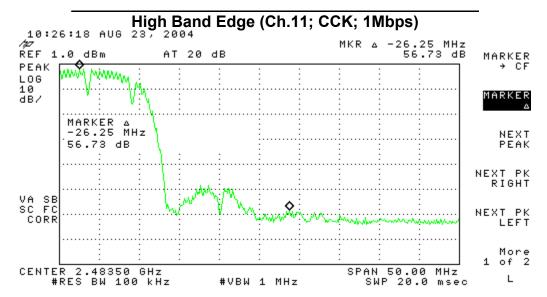




High Band Edge (Ch.11; OFDM; 54Mbps)









15.247 - Radiated Spurious Emissions

REQUIREMENT

"...radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a)." [15.247(c)]

Radiated	d Spurio	us Emis	sions					Curtis-St	raus LLC		
Date:	24-Aug-04			Company:	Enterasys		V	Vork Order:	E0676		
Engineer:	Evan Gould			EUT Desc:	Access Point						
	Freque	ncy Range:	30-1000MHz		Measureme	nt Distance:	3 m				
Notes:	EUT transmit	ting and rece	iving file trans	sfers on Chann	el 1		RBW:	120kHz			
Detector:	Peak						VBW:	300kHz			
Antenna			Preamp	Antenna	Cable	Adjusted	4	7 CFR 15.2	09		
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result		
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail		
Vbb	73.2	40.0	21.4	6.9	1.1	26.6	40.0	-13.4	Pass		
Vbb	112.6	35.7	21.4	12.3	1.4	28.0	43.5	-15.5	Pass		
Vbb	126.3	33.1	21.4	12.8	1.5	26.0	43.5	-17.5	Pass		
Н	150.0	43.0	21.4	11.2	1.6	34.4	43.5	-9.1	Pass		
Vbb	167.6	33.4	21.5	10.5	1.7	24.1	43.5	-19.4	Pass		
V	250.0	40.2	21.5	13.1	2.2	34.0	46.0	-12.0	Pass		
Н	264.0	40.9	21.5	13.3	2.3	35.0	46.0	-11.0	Pass		
Н	330.0	35.6	21.5	14.7	2.6	31.4	46.0	-14.6	Pass		
Н	400.0	32.3	21.5	16.6	2.9	30.3	46.0	-15.7	Pass		
Н	990.0	29.9	20.7	22.4	5.3	36.9	54.0	-17.1	Pass		
Table	e Result:	Pass	by	-9.1	dB	W	orst Freq:	150.0	MHz		
Test Site:	"M"	Pre-Amp:	Green	Cable:	65 ft RG8A/U	Analyzer	: White	Antenna	Grn-Blk		

Radiated S	Spurious	Emissi	ons					Curtis-	Straus LLC
Date:	24-Aug-04	26-Aug-04		Company:	Enterasys Networks		V	Vork Order:	E0676
Engineers:	Josh LeBland	, Evan Gould		EUT Desc:	Access Point				
	Freque	ency Range:	1-40GHz			Measurem	ent Distance:	3 m	
Notes:	EUT transmit	ting and rece	iving on cha	nnel 11			Test Site:	"M"	
Antenna			Preamp	Antenna	Cable	Adjusted		47 CFR 15.2	209
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)
Н	4929.0	29.6	22.5	35.6	2.9	45.6	54.0	-8.4	Pass
Table	e Result:	Pass	by	-8.4	dB	V	Vorst Freq:	4929.0	MHz
1-18GHz >>		Pre-Amp:	Or-Blk	Cable:	3 RG142LL	Analyzer:	: Orange	Antenna:	Orange Horn
18-26.5GHz >>		Pre-Amp:	Yellow	Cable:	3 RG142LL	Analyzer	Orange	Antenna:	White Horn
26.5-40GHz >>		Pre-Amp:	Green	Cable:	6 & 2 RG142LL	Analyzer	Orange	Antenna:	26.5-40GHz



Radiated	Band E	dge (Re	estricte	d Band)		Curtis-Straus LLC				
Date:	Date: 25-Aug-04			Company:	Enterasys		٧	Vork Order:	E0676	
Engineer:	Evan Gould			EUT Desc:	Access Point					
	Freque	ncy Range:	2483.5MHz			Measureme	nt Distance:	3 m		
Detector:	Peak						RBW:	1MHz		
							VBW:	3MHz (10Hz	z for average)	
Antenna			Preamp	Antenna	Cable	Adjusted		47 CFR 15.209		
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result	
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)	
transmitting an	nd receiving on	Channel 11								
Hpk	2483.5	60.3	24.2	30.0	2.1	68.2	74.0	-5.8	Pass	
Hav	2483.5	30.5	24.2	30.0	2.1	38.4	54.0	-15.6	Pass	
Table	e Result:	Pass	by	-5.8	dB	Wo	orst Freq:	2483.5	MHz	
Test Site:	"M"	Pre-Amp:	Or-Blk	Cable:	3 RG142LL	Analyzer:	Black	Antenna:	Orange Horn	



15.247 - Peak Power Spectral Density

LIMIT

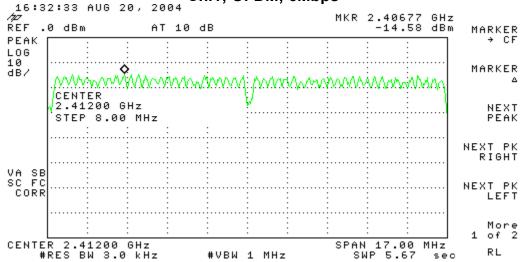
"For digitally modulated systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission." [15.247(d)]

MEASUREMENTS

Peak Pow	er Spect	ral Density				С	Curtis-Straus LLC				
Date:	20-Aug-04		Company:	Enterasys			Work Order:	E0676			
Engineer:	Evan Gould		EUT:	802.11a/b/g v	vireless LAN card						
Analyzer:	Green		Dongle:	MMCX-to-SN	IA adaptor	RBW: 3kHz					
Cable:	Microflex #8					VBW: 1MHz					
Notes:	EUT is set to	continuous transm	it at highest out	put power			Detector: Peak				
						4	7 CFR 15.247(d)			
Ch. / Mod. / Data Rate (Mbps)	Center Frequency (MHz)	Measured PPSD (dBm)	Dongle Factor	Cable Factor	Adjusted PPSD (dBm)	Limit (dBm)	Margin (dB)	Result (Pass/Fail)			
1 / OFDM / 6	2412	-14.50	0.25	1.0	-13.25	8.00	-21.25	Pass			
1 / OFDM / 54	2412	-17.20	0.25	1.0	-15.95	8.00	-23.95	Pass			
7 / OFDM / 6	2442	-14.60	0.25	1.0	-13.35	8.00	-21.35	Pass			
7 / OFDM / 54	2442	-16.30	0.25	1.0	-15.05	8.00	-23.05	Pass			
11 / OFDM / 6	2462	-15.20	0.25	1.0	-13.95	8.00	-21.95	Pass			
11 / OFDM / 54	2462	-17.00	0.25	1.0	-15.75	8.00	-23.75	Pass			

SAMPLE ANALYZER PLOT

Ch.1; OFDM; 6Mbps





U-NII - 26dB Bandwidth

REQUIREMENT

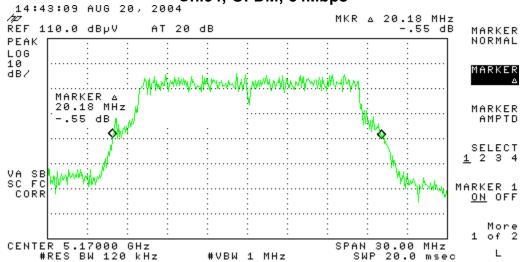
The 26dB bandwidth is used to determine the peak output power limit.

MEASUREMENT

The smallest 26dB bandwidth measurement taken was **20.2MHz**. The settings were: Channel 34; OFDM (the only modulation available in this frequency range); 54Mbps

ANALYZER PLOT







U-NII - Peak Output Power

LIMITS

"For the band 5.15-5.25 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 50 mW or 4 dBm + 10log B, where B is the 26-dB emission bandwidth in MHz." [15.407(a)(1)]

$$10*\log(50) = 16.9$$
dBm $4 + 10*\log(20.2) = 17$ dBm

"For the band 5.25-5.35 GHz...250 mW or 11 dBm + 10log B..." [15.407(a)(2)]

$$10*\log(250) = 23.9dBm$$
 $11 + 10*\log(20.2) = 24dBm$

For the band 5.725-5.825 GHz...1 W or 17 dBm + 10log B..." [15.407(a)(3)]

$$10*\log(1000) = 30dBm$$
 $17 + 10*\log(20.2) = 30dBm$

MEASUREMENTS

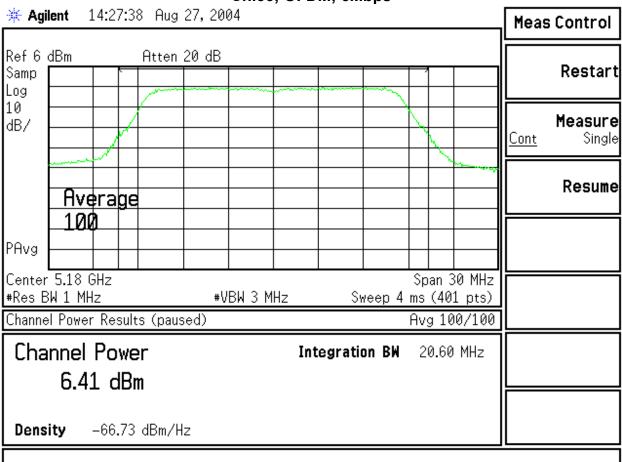
Method #1 for measuring peak conducted transmit output power from FCC's "Guidelines for Assessing..." document referred to in the Test Methodology section was used for the following measurements.

Peak Outp	ut Powe	r				С	urtis-Stra	aus LLC
Date:	23-Aug-04	27-Aug-04	Company:	Enterasys			Work Order:	E0676
Engineer:	Evan Gould	_	EUT:	802.11a/b/g v	vireless LAN card			
Analyzer: Orange Dongle: MMCX-to-SMA adaptor RBW: 1MHz								
Cable:	Microflex #8	142LL #6						
Notes:	EUT is set to	continuous transm	nit at highest out	put power			Detector:	Sample*
				*power avera	ge of 100 sweeps	s integrated ac	ross 26dB ban	dwidth
						47	CFR 15.407(a)	(1-3)
	Center	Measured Peak			Adjusted Peak			
Ch. / Mod. / Data Rate (Mbps)	Frequency (MHz)	Output Power (dBm)	Dongle Factor	Cable Factor	Output Power (dBm)	Limit (dBm)	Margin (dB)	Result (Pass/Fail)
Rate (Mbps)		Output Power		1	Output Power	_	Margin (dB) -7.35	
Rate (Mbps) 36 / OFDM / 6	(MHz)	Output Power (dBm)	(dB)	(dB)	Output Power (dBm)	(dBm)	• • •	(Pass/Fail)
Rate (Mbps) 36 / OFDM / 6 36 / OFDM / 54	(MHz) 5180	Output Power (dBm) 6.40	(dB) 0.25	(dB) 2.9	Output Power (dBm) 9.55	(dBm) 16.90	-7.35	(Pass/Fail) Pass
Rate (Mbps) 36 / OFDM / 6 36 / OFDM / 54 56 / OFDM / 6	(MHz) 5180 5180	Output Power (dBm) 6.40 3.35	(dB) 0.25 0.25	(dB) 2.9 2.9	Output Power (dBm) 9.55 6.50	(dBm) 16.90 16.90	-7.35 -10.40	(Pass/Fail) Pass Pass
Rate (Mbps)	(MHz) 5180 5180 5280	Output Power (dBm) 6.40 3.35 6.64	(dB) 0.25 0.25 0.25	(dB) 2.9 2.9 1.8	Output Power (dBm) 9.55 6.50 8.69	(dBm) 16.90 16.90 23.90	-7.35 -10.40 -15.21	(Pass/Fail) Pass Pass Pass Pass



SAMPLE ANALYZER PLOT

Ch.36; OFDM; 6Mbps





U-NII - Peak Power Spectral Density

LIMITS

"For the band 5.15-5.25 GHz...the peak power spectral density shall not exceed 4 dBm in any 1-MHz band." [15.407(a)(1)]

"For the band 5.25-5.35 GHz...11 dBm..." [15.407(a)(2)]

"For the band 5.725-5.825 GHz...17 dBm..." [15.407(a)(3)]

MEASUREMENTS

Method 2 for measuring peak power spectral density from FCC's "Guidelines for Assessing..." document referred to in the Test Methodology was used for the following measurements.

Peak Pow	er Spect	ral Density						Curtis-S	traus LLC
Date:	23-Aug-04	-	Company:	Enterasys				Work Order:	E0676
Engineer:	Evan Gould		EUT:	802.11a/b/g wii	reless LAN card				
Analyzer:	Orange		Dongle:	MMCX-to-SMA	adaptor			RBW:	1MHz
Cable:	Microflex #8							VBW:	3MHz
Notes:	EUT is set to	continuous transmit	at highest outpu	t power; Ch. 34	was used as low	est char	nnel	Detector:	Sample*
	before it was	determined that Ch.	36 would be the	actual lowest c	hannel allowed			*Power average	ge of 100 sweeps
	Only measure	d with a data rate o	f 6Mbps, due to t	the peak power	being higher at 6	Mbps th	an 54M	bps	
							47	CFR 15.407(a)(1-3)
	Center								- "
Ch. / Mod. / Data	Frequency	Measured PPSD	Dongle Factor	Cable Factor	Adjusted PPSD				Result
Rate (Mbps)	(MHz)	(dBm)	(dB)	(dB)	(dBm)	Limit	(dBm)	Margin (dB)	(Pass/Fail)
34 / OFDM / 6	5170	-4.02	0.25	1.8	-1.97	4.	00	-5.97	Pass
56 / OFDM / 6	5280	-4.60	0.25	1.8	-2.55	11	.00	-13.55	Pass
161 / OFDM / 6	5805	-5.30	0.25	2.0	-3.05	17	.00	-20.05	Pass

SAMPLE ANALYZER PLOT

Ch.34; OFDM; 6Mbps

				, ·	4, OI L						
File	<u> </u>					04	23, 20	24 Aug	11:08:	ent :	* Agi
	15 GHz 8 dBm		Mkr1				15 dB	Atten		dBm	Ref 5
Catalog		1									amp og
Save						1000		-		-/	.0 B/
Load											
Delete											'Avg 00
Copy											1 S2 3 FC
Rename											
Mor 1 of	20 MHz 1 pts)		weep 4		 MHz	 BW 3	#\/			5.17 (W 1 MH	



U-NII - Peak Excursion

REQUIREMENT

"The ratio of the peak excursion of the modulation envelope... to the peak transmit power... shall not exceed 13 dB across any 1 MHz bandwidth of the emission bandwidth whichever is less." [15.407(a)(6)]

MEASUREMENTS

Peak Excursion Curtis-Straus LLC

Date: 23-Aug-04 Company: Enterasys Work Order: E0676
Engineer: Evan Gould EUT: Access Point

TRACE 1 TRACE 2

Detector Type: Peak (Max Hold) **Detector Type:** Sample (Power Average)

Resolution BW: 1MHz
Video BW: 3MHz
Resolution BW: 1MHz
Video BW: 3MHz
Video BW: 3MHz

Note: Peak Excursion was measured with a span of 16.6MHz (99% Occupied Bandwidth)

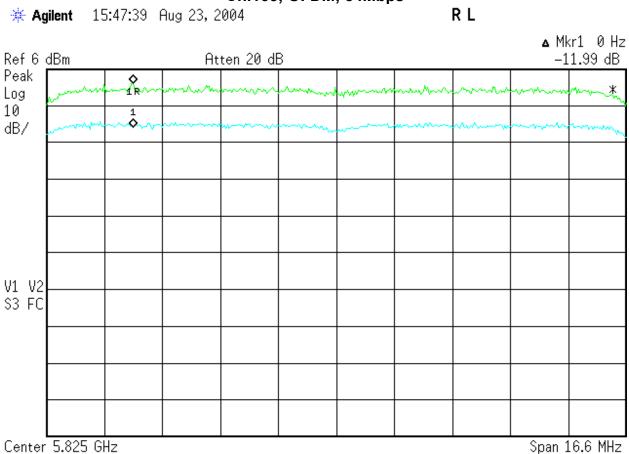
				47 (7(a)(6)	
Ch. / Mod. / Data Rate (Mbps)	Center Frequency (GHz)	Peak Excursion (dB)	Frequency of Peak Excursion (GHz)	Limit (dB)	Margin (dB)	Result (Pass/Fail)
34 / OFDM / 6	5.17	11.27	5.170	13.00	-1.73	Pass
34 / OFDM / 54	5.17	11.60	5.164	13.00	-1.40	Pass
56 / OFDM / 6	5.28	10.86	5.280	13.00	-2.14	Pass
56 / OFDM / 54	5.28	11.82	5.284	13.00	-1.18	Pass
165 / OFDM / 6	5.825	10.56	5.825	13.00	-2.44	Pass
165 / OFDM / 54	5.825	12.00	5.819	13.00	-1.00	Pass



SAMPLE ANALYZER PLOTS

#Res BW 1 MHz

Ch.165; OFDM; 54Mbps



#VBW 3 MHz



Sweep 4 ms (401 pts)

U-NII - Conducted Band Edges

LIMIT

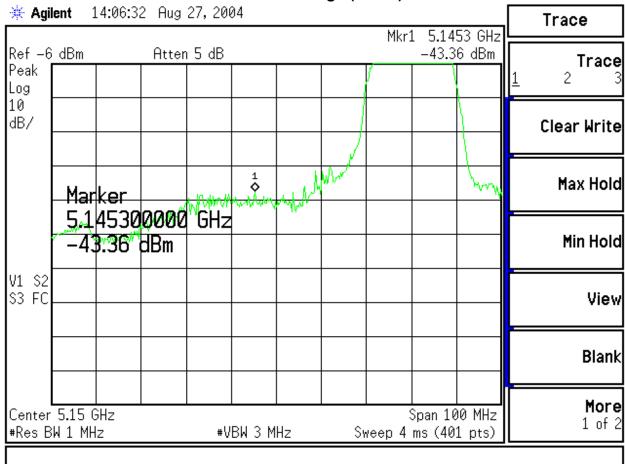
-27 dBm/MHz EIRP [15.407(b)(1-4)]

MEASUREMENTS

	ted Band	. 5	0	F-4				Marila Oralana	E0070
	: 27-Aug-04		Company:	Enterasys			'	Nork Order:	E0676
Engineer	: Evan Gould		EUT Desc:	Access Point					
						Measureme	nt Distance:	3 m	
Detector	: Peak						RBW:	1MHz (10kh	Iz for Ch.52)
Note	: power integration	on over 1MHz	was used for 0	Ch.52 [15.407(b)(5)]		VBW:	3MHz (100k	(Hz for Ch.52)
Transmit	Frequency Of		Cable	Dongle	Antenna	Adjusted	4	17 CFR 15.40	07(b)
Channel	Measurement	Reading	Factor	Factor	Gain	Reading	Limit	Margin	Result
	(MHz)	(dBm)	(dB)	(dB)	(dBi)	(dBm)	(dBm)	(dB)	(Pass/Fail)
36	5145.3	-43.3	2.9	0.25	0.0	-40.2	-27.0	-13.2	Pass
52	5250.0	-41.9	3.0	0.25	5.0	-33.7	-27.0	-6.7	Pass
	5346.0	-43.2	3.0	0.25	5.0	-35.0	-27.0	-8.0	Pass
64	5718.0	-39.8	3.2	0.25	5.0	-31.4	-27.0	-4.3	Pass
64 149	0/10.0	00.0							

SAMPLE ANALYZER PLOTS

Low Band Edge (Ch.36)





Low Band Edge (Ch.52) 13:45:58 Aug 27, 2004 🔆 Agilent File Ref -18 dBm Atten 5 dB Catalog_{*} Samp Log 10 dB/ Save+ Load. Delete-Center 5.25 GHz Span 1.5 MHz #Res BW 10 kHz #VBW 100 kHz Sweep 32.61 ms (401 pts) Copy. Channel Power Results (idle) Channel Power Integration BW 1.000 MHz Rename. -41.93 dBm More 1 of 2 Density -101.93 dBm/Hz



U-NII - Radiated Spurious Emissions

LIMITS

"Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in Section 15.209." [15.407(b)(6)]

"The provisions of Section 15.205 of this part apply to intentional radiators operating under this section." [15.407(b)(7)]

Radiated	Spurio	us Emis	sions					Curtis-St	aus LLC
Date:	24-Aug-04			Company:	Enterasys		٧	Vork Order:	E0676
Engineer:	Evan Gould			EUT Desc:	Access Point				
	Frequency Range: 30-1000MHz Measurement Distance: 3 m								
Notes:	EUT transmit			fers on Char	nel 36	RBW : 120kHz			
Detector:		ang ana rooc	aving mo danc	noro on onar		VBW : 300kHz			
Antenna			Preamp	Antenna	Cable	Adjusted	4	7 CFR 15.20)9
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)
Vbb	73.2	40.0	21.4	6.9	1.1	26.6	40.0	-13.4	Pass
Vbb	112.6	35.7	21.4	12.3	1.4	28.0	43.5	-15.5	Pass
Vbb	126.3	33.1	21.4	12.8	1.5	26.0	43.5	-17.5	Pass
Н	133.3	40.3	21.4	12.6	1.5	33.0	43.5	-10.5	Pass
Н	150.0	45.5	21.4	11.2	1.6	36.9	43.5	-6.6	Pass
Vbb	167.6	33.4	21.5	10.5	1.7	24.1	43.5	-19.4	Pass
Н	200.0	45.8	21.6	10.6	1.9	36.7	43.5	-6.8	Pass
Н	250.0	42.3	21.5	13.1	2.2	36.1	46.0	-9.9	Pass
Н	264.0	40.9	21.5	13.3	2.3	35.0	46.0	-11.0	Pass
Н	300.0	37.1	21.5	13.9	2.4	31.9	46.0	-14.1	Pass
Н	330.0	35.6	21.5	14.7	2.6	31.4	46.0	-14.6	Pass
Н	400.0	32.3	21.5	16.6	2.9	30.3	46.0	-15.7	Pass
Н	750.0	31.0	20.8	20.4	4.4	35.0	46.0	-11.0	Pass
Н	792.0	26.6	21.0	20.8	4.6	31.0	46.0	-15.0	Pass
Н	800.0	31.8	21.0	20.9	4.6	36.3	46.0	-9.7	Pass
Н	900.0	32.4	21.3	21.6	4.9	37.6	46.0	-8.4	Pass
Н	933.3	33.2	21.1	21.9	5.1	39.1	46.0	-6.9	Pass
Н	950.0	29.4	21.0	22.0	5.1	35.5	46.0	-10.5	Pass
Н	990.0	29.9	20.7	22.4	5.3	36.9	54.0	-17.1	Pass
Table	e Result:	Pass	by	-6.6	dB	Wo	rst Freq:	150.0	MHz
Test Site:	"M"	Pre-Amp:	Green	Cable:	65 ft RG8A/U	Analyzer:	White	Antenna:	Grn-Blk

Radiated S	Spurious	Emissi	ons					Curtis-	Straus LLC
Date:	26-Aug-04			Company:	Enterasys Network	ks Work Order: E0676			E0676
Engineers:	Evan Gould			EUT Desc:	Access Point				
	Freque	ency Range:	1-40GHz			Measurem	ent Distance:	3 m	
Notes: EUT transmitting and receiving on channel 36				nnel 36		Test Site: "M"			
Antenna			Preamp	Antenna	Cable	Adjusted		47 CFR 15.2	09
Polarization	Frequency	Reading	Factor	Factor	Factor	Reading	Limit	Margin	Result
(H / V)	(MHz)	(dBµV)	(dB)	(dB/m)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(Pass/Fail)
Hpk	1467.0	42.1	23.5	27.4	1.6	47.6	54.0	-6.4	Pass
Table	e Result:	Pass	by	-6.4	dB	V	Vorst Freq:	1467.0	MHz
1-18GHz >>		Pre-Amp:	Or-Blk	Cable:	2 RG142LL	Analyzer	: Orange	Antenna:	Black Horn
18-26.5GHz >>		Pre-Amp:	Yellow	Cable:	Microflex #8	Analyzer	: Orange	Antenna:	White Horn
26.5-40GHz >>		Pre-Amp:	Green	Cable:	6 & 2 RG142LL	Analyzer	: Orange	Antenna:	26.5-40GHz



Radiated Band Edges (Restricted Bands) **Curtis-Straus LLC** Date: 27-Aug-04 Company: Enterasys Work Order: E0676 Engineer: Evan Gould **EUT Desc:** Access Point Measurement Distance: 3 m Frequency Rage: 5150-5350MHz Dectector: Peak RBW: 1MHz VBW: 3MHz (10Hz for average) 47 CFR 15.209 Antenna Preamp Antenna Cable Adjusted Reading Polarization Frequency Factor Factor Factor Reading Limit Margin Result (H / V) (MHz) (dBµV) (dB) (dB/m) (dB) (dBµV/m) (dBµV/m) (dB) (Pass/Fail) transmitting and receiving on Channel 36 5150.0 40.9 22.5 36.0 2.9 57.3 74.0 -16.7 Pass Vpk 5150.0 Vav 18.6 22.5 36.0 2.9 35.0 54.0 -19.0 Pass transmitting and receiving on Channel 64 22.6 Vpk 5350.0 43.7 36.3 3.0 60.4 74.0 -13.6 Pass 54.0 Vav 5350.0 19.5 22.6 36.3 3.0 36.2 -17.8 Pass Table Result: **Pass** by -13.6 dB Worst Freq: 5350.0 MHz Test Site: "A" Pre-Amp: Or-Blk Cable: 6 RG142LL Analyzer: Orange Antenna: Orange Horn



U-NII - Frequency Stability

REQUIREMENT

"Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emissions is maintained within the band of operation under all conditions of normal operation as specified in the user's manual." [15.407(g)]

The user's manual specifies a normal operating temperature range of -5°C to 50°C.

Frequency Stabili	ty Curtis-Straus LLC
WO : E0676	-
EUT: Access Point	
Date: 8/25/2004	
Engineer: Josh LeBlanc	
Notes: Ch.40 used. N	leasuring the carrier freq
Temp (degC)	Frequency (GHz)
20	5.19999
-20	5.20000
30	5.19995
50	5.20000



AC Line Conducted Emission Measurements **LIMITS**

Frequency of emission (MHz)	Quasi-peak limit (dBµV)	Average limit (dBµV)
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

^{*}Decreases with the logarithm of the frequency.

[47 CFR 15.207(a)]

AC Main	s Cond	ucted E	missio	ons				C	urtis-Stra	us LLC
Date:	25-Aug-04		Company: Enterasys Systems					Work Order:	E0677	
Engineer:	Josh LeBlan	С	E	EUT Desc: Access Point Test Site: E					EMI1	
Notes:	Ch.2 (chann	(channels 40 and 153 were also checked, but emissions were unchanged)								
	Red Yellow-	-Black								
Range:	0.15-30Mhz		Other Equipment: Spectrum Analyzer: Green							
					Impedance	47 CF	R 15.207	47 CF	R 15.207	
	Q.P. Re	eadings	Ave. Re	eadings	Factor					Overall
Frequency	QP1	QP2	AV1	AV2		qp Limit	qp Margin	AVE Limit	AVE Margin	Result
(MHz)	(dBµV)	(dBµV)	(dBµV)	(dBµV)	(dB)	(dBµV)	dB	(dBµV)	dB	(Pass/Fail)
0.15	32.2	27.3	19.8	19.5	20.0	66.0	-13.8	56.0	-16.2	Pass
0.34	15.8	16.8			20.0	59.2	-22.4	49.2	-12.4	Pass
0.75	14.2	14.7			20.0	56.0	-21.3	46.0	-11.3	Pass
1.02	14.4	14.8			20.0	56.0	-21.2	46.0	-11.2	Pass
4.82	13.3	13.3			20.0	56.0	-22.7	46.0	-12.7	Pass
18.00	15.0	12.6			20.0	60.0	-25.0	50.0	-15.0	Pass
Table	Result:	Pass	by	-11.20	dB		Wo	orst Freq:	1.02	MHz



Voltage Variation

REQUIREMENT

"For intentional radiators, measurements of the variation of the...radiated signal level of the fundamental frequency component of the emission...shall be performed with the supply voltage varied between 85% and 115% of the nominal rated supply voltage." [15.31(e)]

Voltage Variations	Curtis-Straus LLC
WO : E0676	
EUT: Access Point	
Date: 8/25/2004	
Engineer: Josh LeBlanc	
Notes: Ch.40; Nominal range:	100-250VAC
Amplitude (dBuV)	Voltage
67.1	85.0
67.7	120.0
67.3	287.5



Test Equipment Used

						REV. 25-AUG-	2004
SPECTRUM ANALYZERS	RANGE		MN	MFR	SN	ASSET	CALIBRATION DUE
WHITE	9kHz-220	GHz 8	8593E	HP	3547U01252	00022	04-MAR-2005
GREEN	9kHz-26.5	GHz {	8593E	HP	3829A03618	00143	02-AUG-2005
BLACK	9kHz-12.8	GHz {	8596E	HP	3710A00944	00337	18-AUG-2005
ORANGE	9kHz-26.5	GHz E	4407B	HP	US39440975	00394	03-JUN-2005
LICNO/MEAGUREMEN	T DA	105				Acost	
LISNS/MEASUREMEN PROBES			MN	MFR	SN	ASSET	CALIBRATION DUE
RED	10кHz-		2-50-R-24-BNC		956348	00753	02-APR-2005
YELLOW-BLACK	10ĸHz-	30MHZ 801	2-50-R-24-BNC	SOLAR	984735	00248	02-APR-2005
OPEN AREA TEST	SITE (OATS)	F(CC CODE	IC CODE	VCCI	CODE	CALIBRATION DUE
SITE A			93448	IC 2762-		903	25-MAR-2005
SITE M			93448	IC 2762-N		904	25-MAR-2005
0.12.11			00110				20 1111 11 (2000
LINE CONDUCTED	TEST SITES	F	CC CODE	IC CODE	VCCI	CODE	CALIBRATION DUE
EMI 1			93448	N/A	C-1	801	01-MAY-2006
PREAMPS / ATTENUATOR	RS/	NGE	MN	MFF	R SN	ASSET	CALIBRATION DUE
GREEN	0.01-20	000MHz	ZFL-1000-LN	C-S	S N/A	00802	27-FEB-2005
ORANGE-BLACK	1-20)GHz	SMC-12A	C-S	637367	00761	21-JUL-2005
HF (YELLOW)	18-26	5.5GHz AFS	S4-18002650-60-8	3P-4 C-S	467559	00758	20-JUL-2005
ANTENNAS	RANGE	MN	MFR	SN	ASSET	Calibi	RATION DUE
GREEN-BLACK BILOG	30MHz-2GHz	CBL6112B	CHASE	2412	00127	06-	JAN-2006
BLACK HORN	1-18GHz	3115	EMCO	9703-5148	00056	12-5	JUN-2005
ORANGE HORN	1-18GHz	3115	EMCO	0004-6123	00390	04-5	JUN-2005
HF (WHITE) HORN	18-26.5GHz	801-WLM	WAVELIN E	00758	00758	15-	JUL-2005
MIXERS/DIPLEXERS	RANGE	MN	MfR		SN	ASSET	CALIBRATION DUE
MIXER / HORN	26.5-40 GHz	11970A/28-4 6	42- HP/AT	M 2332A0	00900/A046903-01	00369	09-AUG-2004
Mixer / Horn	26.5-40 GHz	11970A/28-4 6	42- HP/AT	M 2332A0)1695/A046903-01	TBD	23-AUG-2005
MIXER / HORN	26.5-40 GHz	11970A/28-4 6	42- HP/AT	M 3003A0)7825/A046903-01	TBD	23-AUG-2005
CHAMBERS AND STRIPLIN	E	MN	MFI	₹	SN	ASSET	CALIBRATION DUE
ENVIRONMENTAL (SAFETY)	0.0	TH-31S	B-M-A	INC.	2245	00321	31-DEC-2004
LINVINCINIVILINIAL (SAFEIT)	SG	111010					
LIVINONWENTAL (SAFETT)	SG	111010					
Power/Noise I		MN	MFR	ł	SN	ASSET	CALIBRATION DUE
	METERS		MFR		SN 2445A11012	ASSET 00773	CALIBRATION DUE 07-APR-2005

All equipment is calibrated using standards traceable to NIST or other nationally recognized calibration standard.



Terms And Conditions

Paragraph 1. SERVICES. LABORATORY will:

Use the degree of care and skill ordinarily exercised by and consistent with the standards of the profession.

Perform all technical services in substantial accordance with the generally accepted laboratory principles and practices.

1.3 Retain all pertinent records relating to the services performed for a period of three (3) years following submission of the report describing such services, during which period the records will be made available to CLIENT upon reasonable request.

Paragraph 2. CLIENT'S RESPONSIBILITIES. CLIENT or his authorized representative will:

Provide LABORATORY with all plans, schematics, specifications, addenda, change orders, drawings and other information for the proper

- performance of technical services.

 Designate a person to act as CLIENT's representative with respect to LABORATORY's services to be performed on behalf of the CLIENT; such person or firm to have complete authority to transmit instructions, receive information and data, interpret and define CLIENT's policies and decisions with respect to the LABORATORY's work on behalf of the CLIENT and to order, at CLIENT's expense, such technical services as may be required.
- Designate a person who is authorized to receive copies of LABORATORY's reports.

Undertake the following:

- (a) Secure and deliver to LABORATORY, without cost to LABORATORY, preliminary representative samples of the equipment proposed to require technical services, together with any relevant data.
- Furnish such labor and equipment needed by LABORATORY to handle samples at the LABORATORY and to facilitate the specified technical services.

GENERAL CONDITIONS: Paragraph 3.

- LABORATORY, by the performance of services covered hereunder, does not in any way assume any of those duties or responsibilities customarily vested in the CLIENT, its employees, or any other party, agency or authority.
- LABORATORY shall not be responsible for acts of omissions of any other party or parties involved in the design, manufacture or maintenance of the equipment or the failure of any employee, contractor or subcontractor to undertake any aspect of equipment's design, manufacture or maintenance.
- LABORATORY is not authorized to revoke, alter, release, enlarge or release any requirement of the equipment's design, manufacture or maintenance unless specifically authorized by CLIENT or his authorized representative.

 THE ONLY WARRANTY MADE BY LABORATORY IN CONNECTION WITH ITS SERVICE PERFORMED HEREUNDER IS 33
- THAT IT WILL USE THAT DEGREE OF CARE AND SKILL AS SET FORTH IN PARAGRAPH I ABOVE. NO OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE OR INTENDED FOR SERVICES PROVIDED HEREUNDER.
 Where the LABORATORY indicates that additional testing is advisable to obtain more valid or useful data, and where such testing has not
- 3 5
- been authorized, CLIENT agrees to view such test reports as inconclusive and preliminary.

 The LABORATORY will supply technical service and prepare a report based solely on the sample submitted to the LABORATORY by the CLIENT. The CLIENT understands that application of the data to other devices is highly speculative and should be applied with 3.6 extreme caution
- 3.7 The LABORATORY agrees to exercise ordinary care in receiving, preserving and shipping (F.O.B. Littleton, MA) any sample to be tested, but assumes no responsibility for damages, either direct or consequential, which arise from loss, damage or destruction of the samples due to the act of examination, modification or testing, or technical services or circumstances beyond LABORATORY's control.
- 3.8 The LABORATORY will hold samples for thirty (30) days after tests are completed, or until the CLIENT's outstanding debts to the LABORATORY are satisfied, whichever is later.
- The CLIENT recognizes that generally accepted error variances apply and agrees to consider such error variances in its use of test data. 3.10 It is agreed between LABORATORY and CLIENT that no distribution of any tests, reports or analysis other than that described below
- shall be made to any third party without the prior written consent of both parties unless such distribution is mandated by operation of law. It is agreed that tests, reports, or analysis results may be disclosed to third party auditors of the laboratory at the laboratory facility in the course of accreditation maintenance audits. No reference to reports or technical services of the LABORATORY shall be made in any advertising or promotional literature without the express written permission of the LABORATORY.

 3.11 The CLIENT acknowledges that all employees of LABORATORY operate under employment contracts with the LABORATORY and
- CLIENT agrees not to solicit employment of such employees or to solicit information related to other clients from said employees.
- 3.12 In recognition of the relative risks and benefits of the project to both CLIENT and LABORATORY, the risks have been allocated such that the CLIENT agrees, to the fullest extent permitted by law, to limit the liability of the LABORATORY to the CLIENT for any and all claims, losses, costs, damages of any nature whatsoever or claims expenses from any cause or causes, including attorneys' fees and costs and expert witness fees and costs, so that the total aggregate liability of the LABORATORY to the CLIENT shall not exceed \$100,000, or the LABORATORY'S total fee for services rendered on this project, whichever is greater. It is intended that this limitation apply to any and all liability or cause of action however alleged or arising, unless otherwise prohibited by law.

Paragraph 4. INSURANCE:

- LABORATORY shall secure and maintain throughout the full period of the services provided to the CLIENT adequate insurance to protect it from claims under applicable Workmen's Compensation Acts and also shall maintain one million dollars of general liability
- profect it from claims under applicable Workmen's Compensation Acts and also snan maintain one minion colors of general nacing coverage to cover claims for bodily injury, death or property damage as may arise from the performance of its services.

 The CLIENT hereby warrants that it has sufficient insurance to protect its employees adequately under applicable Workmen's Compensation Acts and for bodily injury, death, or property damage.

 No insurance of whatever kind or type, which may be carried by either party is to be considered as in any way limiting any other party's and insurance of whatever kind or type, which may be carried by either party and materials.
- responsibility for damages resulting from their operations or for furnishing work and materials.

Paragraph 5. PAYMENT:

CLIENT shall pay to LABORATORY such fees for services as previously agreed, orally or in writing, within 30 days of presentment of a bill for such services performed. In the event CLIENT ordered, orally or in writing, services but such services were not assigned a rate for billing, such services shall be billed at the LABORATORY's reasonable and customary rate.



CLIENT shall be responsible for all shipping, customs and other expenses related to services provided by LABORATORY to the CLIENT, and shall fully insure any test sample or other equipment provided to LABORATORY by the CLIENT. Amounts overdue from CLIENT to LABORATORY shall be charged interest at a rate of 1½% per month.

5.3

Paragraph 6. ISO/IEC GUIDE 17025 ADDITIONS:

- 6.1
- CLIENT agrees that this test report will not be reproduced except in full, without written approval from the LABORATORY. CLIENT agrees that this test report shall not be used to claim product endorsement by A2LA or ANSI or any agency of the U.S. 6.2
- 6.3 CLIENT agrees that test results presented herein relate only to the sample tested by the LABORATORY.



A2LA Accreditation

(A2LA Cert. No. 1627-01) 10/31/03

		EN 55011 1991, 1998	Limits and matheds of management of sodio disturbance
SCOPE OF ACCE	REDITATION TO ISO/IEC 17025-1999	characteristics of	Limits and methods of measurement of radio disturbance industrial, scientific and medical (ISM) radio-frequency equipment.
SCOIL OF ACCI	REDITATION TO ISO/IEC 17023-1777	SABS CISPR 11:1997	Industrial, scientific and medical (ISM) radio-frequency equipment –
	CURTIS-STRAUS ¹		Electromagnetic disturbance characteristics Limits and methods of
	527 Great Road		measurement
	Littleton, MA 01460	Canada ICES-001 1998	Industrial, scientific and medical radio frequency generators
Barry Qu	inlan Phone: 978-486-8880	CNS13803 AS/NZS 2064: 1997	Industrial, Scientific and Medical Instrument
	ELECTRICAL	AS/NZS 2004: 1997	Limits and methods of measurement of electromagnetic disturbance characteristics of industrial, scientific and medical (ISM) radio-
	EEECTRICAL		frequency equipment.
Valid until: July 31, 2005	Certificate Number: 1627-01	CSA C108.8 - M1983	Electromagnetic Emission from Data Processing Equipment and
* '			Electronic Office Machines
In recognition of the successful completion of	the A2LA evaluation process, accreditation is granted to this	CISPR 13:1996, 1998, 2001	Limits and methods of measurement of radio interference
	agnetic Compatibility (EMC), Telecommunications, and Product		characteristics of sound and television broadcast receivers and
Safety tests:		EN 55013: 1990, 2001	associated equipment.
Electromagnetic Compatibility (EMC)		EN 33013. 1990, 2001	Sound and television broadcast receivers and associated equipment: Electromagnetic compatibility. Part 1: Specification for limits and
	etic fields); Conducted emissions testing (voltage and current);		methods of measurement of radio disturbance characteristics of
Electrostatic Discharge testing; Electrical Fast	t Transient testing; Radiated Immunity testing; Conducted Immunity		broadcast receivers and associated equipment.
	Dips, Interrupts and Voltage Variations testing; Magnetic Immunity	EN 55013 Amend 12 1994	Limits and methods of measurement of radio disturbance
	Stability measurements; Longitudinal Induction measurements;		characteristics of broadcast receivers and associated equipment.
measurements	ing; Low frequency disturbance voltage testing; Disturbance Power	SABS CISPR 13: 1996	Amendment 12 Limits and methods of measurement of radio interference
mousta emonts		5/155 C15/14 15: 1770	characteristics of sound and television broadcast receivers and
EMC Standards	Title		associated equipment.
		CNS 13439	Broadcast receiver and associated equipment Limits and methods of
Emissions		AS/NZS 1053: 1999	measurement of radio interference characteristics of sound and
CISPR 22 1997 with amendments 1 and 2	Limits and methods of measurement of radio disturbance characteristics of information technology equipment.	CISPR 14 1993	television broadcast receivers and associated equipment. Limits and methods of measurement of radio disturbance
CNS13438 1994	Limits and methods of measurement of radio interference	(except discontinuous disturbances)	characteristics of electrical motor- operated and thermal appliances for
	characteristics of information technology equipment.	(household and similar purposes, electric tools and electric apparatus.
EN55022:1994 and 1998	Limits and methods of measurement of radio disturbance	EN 55014 1993, 1997	Limits and methods of measurement of radio disturbance (except
g a pg grapp 22 100-	characteristics of information technology equipment.	discontinuous disturbances)	characteristics of electrical motor- operated and thermal appliances for
SABS CISPR 22:1997	Information technology equipment – Radio disturbance		household and similar purposes, electric tools and similar electric
Canada ICES-003 1997	characteristics – Limits and methods of measurement Digital apparatus	AS/NZS 1044: 1995	apparatus. Limits and methods of measurement of radio disturbance (except
AS/NZS 3548 1995	Australian/New Zealand Standard Limits and methods of	discontinuous disturbances)	characteristics of electrical motor- operated and thermal appliances for
	measurement of radio disturbance characteristics of information		household and similar purposes, electric tools and similar electric
	technology equipment		apparatus.
CISPR 11 1990, 1997, 1999	Limits and methods of measurement of electromagnetic		
	disturbance characteristics of industrial, scientific and medical (ISM) radio-frequency equipment.	Immunity CNS13783-1	Household Electrical Appliances
	(ISM) radio-frequency equipment.	SABS CISPR 14-1 1993	Electromagnetic compatibility – Requirements for household
		SABS CISI K 14-1 1993	appliances, electric tools and similar apparatus Part 1: Emission –
			Product family standard
	rmed at the laboratory listed above and the satellite facility	SABS CISPR 14-2 1997 + A1:2001	Electromagnetic compatibility - Requirements for household
located at 168 Ayer Rd, Littleton, MA 01460			appliances, electric tools and similar apparatus Part 2: Immunity -
			Product family standard
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CISPR 14-2 1996, 1997 + A1:2001	Immunity requirements for household appliances, tools and	EN 61000-6-1: 1997, 2001	Electromagnetic Compatibility (EMC)- Part 6: Generic standards-
·	similar apparatus.		Section 1: Immunity for residential, commercial and light-industrial
CISPR 20: 1995, 2002 with amendment 3	similar apparatus. Limits and methods of measurement of immunity characteristics	EN 61000-6-2: 1998-2001	environments
·	similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated	EN 61000-6-2: 1998, 2001	environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards-
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CISPR 20: 1995, 2002 with amendment 3 (associated group only) EN 55020: 1995, 2002 (associated group only)	similar apparatus. Limits and methods of measurement of immunity characteristics of sound and television broadcast receivers and associated equipment. Electromagnetic immunity of broadcast receivers and Associated equipment.	EN 50091-2 1996	environments Electromagnetic Compatibility (EMC)- Part 6: Generic standards- Section 2: Immunity for industrial environments Specification for Uninterruptible Power Systems (UPS). Part 2: EMC requirements
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ETS EN 300 386 2000 v1.2.1, 2001 v1.3.1	(ERM); Telecommunication network equipment; Electromagnetic	v1.2.1	Wideband Transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum
	compatibility (EMC) requirements; Part 2: Product family standard.		modulation techniques; Part 2: Harmonized EN covering essential requirements under article 3.2 of the R&TTE Directive
ETS 300 132-1 1996	Equipment Engineering (EE); Power supply interface at the input to telecommunications equipment; Part 1: Operated by	EN 301 489-1:2002	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment
ETS 300 132-2 1996	alternating current (ac) derived from direct current (dc) sources Equipment Engineering (EE); Power supply interface at the	EN 60669-2-1:2002	and services; Part 1: Common technical requirements Switches for household and similar fixed electrical installations Part
E13 300 132-2 1990	input to telecommunications equipment; Part 2: Operated by direct current (dc)	EN 00009-2-1.2002	2-1: Particular requirements – Electronic switches
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	(ERM); Electromagnetic Compatibility (EMC) standard for fixed radio links and ancillary equipment (ETS)	Canadian RSS-134 1996 & 2000, Issue 1 Rev 1	Industry Canada – 900 MHz narrowband personal communications services
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	and test methods for radio equipment in the range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz	RFS29 1998 Specification for Restri	cted Radiation Radio Apparatus (New Zealand)
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213 300 320 1990	systems; Technical characteristics and test conditions for data	operating on frequencies below 1 GHz,	Scope A1
	transmission equipment operating in the 2,4 GHz ISM band and using spread spectrum modulation techniques	emergency alert systems, unintentional radiators and ISM devices.	
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	methods for radio equipment to be used in the 1 Ghz to 40 Ghz frequency range	with the exception of spread spectrum devices.	
EN 301 893:2002 v1.2.1	Broadband Radio Access Networks (BRAN); 5 GHz (draft) high performance RLAN; Harmonized EN covering Essential	47 CFR FCC Unlicensed Personal Scope Communications System (PCS) devices	
ETS 300 836-1:1998	requirements of article 3.2 of the R&TTE Directive Broadband Radio Access Networks (BRAN); High Performance	47 CFR FCC Unlicensed National Scope Information Infrastructure devices and	A4
	Radio Local Area Network (HIPERLAN) Type 1; Conformance testing specification; Part 1: Radio Type approval and Radio	low power transmitters using spread spectrum techniques.	
EN301 489-17:2002	Frequency (RF) conformance test specification	47 CFR FCC Personal mobile Scope Radio Services in the following FCC	Bl
v1.2.1	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for	Rule Parts 22, 24, 25, 27.	Do.
	radio equipment and services; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high	47 CFR FCC General Mobile Radio Scope Services in the following FCC	B2
	performance RLAN equipment	Rule Parts 22, 74, 90, 95, 97. 47 CFR FCC Maritime and Aviation	В3
		Scope RadioServices in 47 CFR Parts 80 and 87	
		47 CFR FCC Microwave Radio Services Scope in 47 CFR Parts 21, 74 and 101.	B4
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FCC/OST MP-5 1986	FCC (Federal Communications Commission) methods Of	TIA/EIA-IS-968	Telecommunications Telephone Terminal Equipment Technical
100/00/1111 3 1/00	measurement of radio noise emissions from industrial, scientific and medical equipment.	1110211110 700	Requirements for Connection of Terminal Equipment to the Telephone Network
GR-1089-CORE: 1997, 1999 issue 2/	Bellcore electromagnetic compatibility and electrical safety -	TIA/EIA-IS-883	Telecommunications Telephone Terminal Equipment Supplemental
2002 Issue 3	Generic criteria for network telecommunications equipment.	TTA 000 4	Technical Requirements for Connection of Stutter Dial Tone Detection Devices and ADSL Modems to the Telephone Network
ANSI EMC Standards ANSI C63.4: 1992, 1999, 2001	American National Standard for methods of measurement of	TIA-968-A	Telecommunications Telephone Terminal Equipment Technical Requirements for Connection of Terminal Equipment to the Telephone
	radio-noise emissions for low-voltage electrical and electronic equipment in the range of 9 kHz to 40GHz.	T1.TRQ.6-2001	Network Technical Requirements for SHDSL, HDSL2, HDSL4 Digital
ANSI C63.5 1988	equipment in the range of 9 kHz to 40GHz. American National Standard for electromagnetic compatibility – radiated emissions measurements in electromagnetic		Technical Requirements for SHDSL, HDSL2, HDSL4 Digital Subscriber Line Terminal Equipment to Prevent Harm to the Telephone Network Industry
ANSI C63.5 1988	equipment in the range of 9 kHz to 40GHz. American National Standard for electromagnetic compatibility –	T1.TRQ.6-2001 Canada VDSL Issue 1 January 2003	Technical Requirements for SHDSL, HDSL2, HDSL4 Digital Subscriber Line Terminal Equipment to Prevent Harm to the Telephone
IEEE EMC Standards	equipment in the range of 9 kHz to 40GHz. American National Standard for electromagnetic compatibility – radiated emissions measurements in electromagnetic interference (EMI) control – calibration of antennas.	Canada VDSL Issue 1 January 2003	Technical Requirements for SHDSL, HDSL2, HDSL4 Digital Subscriber Line Terminal Equipment to Prevent Harm to the Telephone Network Industry Terminal Attachment Program Requirements and Test Methods for Very-High-Bit-Rate Digital Subscriber Line (VDSL) Terminal Equipment
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