FCC 47 CFR PART 15 SUBPART C

TEST REPORT

For

SiS WLAN 54Mbps USB 2.0 Adapter

Trade Name / Model Number

PRO-NETS, SpeedCom+, NetoDragon, ORANGE, GENX, TORNADO / WU61S

Upspeed / WLAN170066-N

Wayjet / WT-US54GS

INEXO / UR055g

N/A / PROTECH PWR-504, 911385

Leadership / 3860

ENCORE / ENLWI-G2

Issued to

PRO-NETS TECHNOLOGY CORPORATION

7F, No.95, Li-De St., Chung Ho City 235, Taipei, Taiwan, R.O.C.

Issued by

Compliance Certification Services Inc.
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Date of Issue: December 14, 2005

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TEST RESULT CERTIFICATION

Applicant:

PRO-NETS TECHNOLOGY CORPORATION

7F, No.95, Li-De St., Chung Ho City 235,

Taipei, Taiwan, R.O.C.

Equipment Under Test: SiS WLAN 54Mbps USB 2.0 Adapter

Trade Name / Model:

PRO-NETS, SpeedCom+, NetoDragon, ORANGE, GENX, TORNADO / WU61S

Upspeed / WLAN170066-N

Wayjet / WT-US54GS INEXO / UR055g

N/A / PROTECH PWR-504, 911385

Leadership / 3860 ENCORE / ENLWI-G2

Date of Test:

October 14 ~ December 14, 2005

APPLICABLE STANDARDS				
STANDARD TEST RESULT				
FCC 47 CFR Part 15 Subpart C	No non-compliance noted			

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.4: 2003 and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 15.207, 15.209, 15.247.

The test results of this report relate only to the tested sample EUT identified in this report.

Approved by:

Reviewed by:

Gavin Lim

Section Manager

Compliance Certification Services Inc.

nav, lim

Section Manager

Compliance Certification Services Inc.

2. EUT DESCRIPTION

Product	SiS WLAN 54Mbps USB 2.0 Adapter			
	PRO-NETS, SpeedCom+, NetoDragon, ORANGE, GENX,			
	TORNADO / WU61S			
	Upspeed / WLAN170066-N			
T 1 N / M 1 1	Wayjet / WT-US54GS			
Trade Name / Model	INEXO / UR055g			
	N/A / PROTECH PWR-504, 911385			
	Leadership / 3860			
	ENCORE / ENLWI-G2			
M LID:	All the above models are identical except for the designation of			
Model Discrepancy	trade names and model numbers.			
Dowen Cumply	Powered from host device.			
Power Supply	Fowered from nost device.			
Frequency Range	2412 ~ 2462 MHz			
Frequency Range				
Transmit Power	IEEE 802.11b: 13.40 dBm			
Transmit rower	IEEE 802.11g: 13.52 dBm			
	IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK)			
Modulation Technique	IEEE 802.11g: DSSS (CCK, DQPSK, DBPSK) +			
	OFDM (QPSK, BPSK, 16-QAM, 64-QAM)			
Transmit Data Rate	IEEE 802.11b: 11, 5.5, 2, 1 Mbps			
Translint Data Kate	IEEE 802.11g: 54, 48, 36, 24, 18, 12, 11, 9, 6, 5.5, 2, 1 Mbps			
Number of Channels	11 Channels			
Antenna Specification	Printed Antenna / Gain: -0.72 dBi			

Remark:

- 1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.
- 2. This submittal(s) (test report) is intended for FCC ID: <u>RXZ-WU61S</u> filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

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3. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4 and FCC CFR 47 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057, 15.207, 15.209 and 15.247.

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3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to its specifications, the EUT must comply with the requirements of the Section 15.207, 15.209 and 15.247 under the FCC Rules Part 15 Subpart C.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4.

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3.4 FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS

(a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

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MHz MHz		MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 -	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.52525	2655 - 2900	22.01 - 23.12
8.41425 - 8.41475	156.7 - 156.9	3260 - 3267	23.6 - 24.0
12.29 - 12.293	162.0125 - 167.17	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	167.72 - 173.2	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	240 - 285	3600 - 4400	$\binom{2}{}$
13.36 - 13.41	322 - 335.4		

¹ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

3.5 DESCRIPTION OF TEST MODES

The EUT (model: WU61S) had been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting mode was programmed.

After verification, all tests were carried out with the worst case test modes as shown below except radiated spurious emission below 1GHz, which worst case was in normal link mode only.

IEEE802.11b: Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 11Mbps data rate were chosen for full testing.

IEEE802.11g: Channel Low (2412MHz), Channel Mid (2437MHz) and Channel High (2462MHz) with 6Mbps data rate were chosen for full testing.

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² Above 38.6

4. INSTRUMENT CALIBRATION

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.

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4.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Remark: Each piece of equipment is scheduled for calibration once a year.

Conducted Emissions Test Site						
Name of Equipment Manufacturer Model Serial Number Calibration Due						
Spectrum Analyzer Agilent E4446A MY43360131 01						

Open Area Test Site # 3						
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due		
EMI Test Receiver	R&S	ESVS20	838804/004	01/08/2006		
Spectrum Analyzer	R&S	FSP30	100112	09/23/2006		
Spectrum Analyzer	Agilent	E4446A	MY43360131	01/10/2006		
Pre-Amplifier	MITEC	AFS42-00102650	924206	N.C.R.		
Pre-Amplifier	MITEC	AMF-6F-260400	945377	N.C.R.		
Bilog Antenna	SCHWAZBECK	VULB9163	145	07/05/2006		
Horn Antenna	EMCO	3115	00022250	04/18/2006		
Horn Antenna	EMCO	3116	2487	12/08/2005		
Turn Table	EMCO	2081-1.21	9709-1885	N.C.R		
Antenna Tower	EMCO	2075-2	9707-2060	N.C.R		
Controller	EMCO	2090	9709-1256	N.C.R		
RF Switch	ANRITSU	MP59B	M53867	N.C.R		
Site NSA	C&C	N/A	N/A	09/06/2006		

Remark: The measurement uncertainty is less than +/- 2.16dB, which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.

Powerline Conducted Emissions Test Site								
Name of Equipment Manufacturer Model Serial Number Calibration Due								
EMI TEST RECEIVER 9kHz-30MHz	ROHDE & SCHWARZ	ESHS30	828144/003	09/24/2006				
TWO-LINE V-NETWORK 9kHz-30MHz	SCHAFFNER	NNB41	03/10013	06/11/2006				
LISN 10kHz-100MHz	Hz EMCO 3825/2 9106-1809							
Test S/W	LABVIEW (V 6.1)							

Remark: The measurement uncertainty is less than +/- 2.81dB, which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.

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5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at
□ No. 199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.
Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029
☑ No. No.11, Wugong 6th Rd., Wugu Industrial Park, Taipei Hsien 248, Taiwan
Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045
☑ No.81-1, Lane 210, Bade 2nd Rd., Luchu Hsiang, Taoyuan Hsien 338, Taiwan
Tel: 886-3-324-0332 / Fax: 886-3-324-5235

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 LABORATORY ACCREDITATIONS AND LISTING

The test facilities used to perform radiated and conducted emissions tests are accredited by National Voluntary Laboratory Accreditation Program for the specific scope of accreditation under Lab Code: 200600-0 to perform Electromagnetic Interference tests according to FCC PART 15 AND CISPR 22 requirements. No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government. In addition, the test facilities are listed with Federal Communications Commission (Registration no: 93105 and 90471).

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5.4 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	NVLAP*	EN 55011, EN 55014-1, AS/NZS 1044, CNS 13783-1, EN 55022, CNS 13438, EN 61000-3-2, EN 61000-3-3, ANSI C63.4, FCC OST/MP-5, AS/NZS CISPR 22, IEC 61000-4-2, IEC 61000-4-3, IEC 61000-4-4, IEC 61000-4-5, IEC 61000-4-6, IEC 61000-4-8, IEC 61000-4-11	NV[AP 200600-0
USA	FCC	3/10 meter Open Area Test Sites (93105, 90471) / 3M Semi Anechoic Chamber (965860) to perform FCC Part 15/18 measurements	93105, 90471 965860
Japan	VCCI	3/10 meter Open Area Test Sites to perform conducted/radiated measurements	VCCI R-393/1066/725/879 C-402/747/912
Norway	NEMKO	EN 50081-1/2, EN 50082-1/2, IEC 61000-6-1/2, EN 50091-2 EN 50130-4, EN 55011, EN 55013, EN 55014-1/2, EN 55015, EN 55022, EN 55024, EN 61000-3-2/3, EN 61326-1, IEC 61000-4-2/3/4/5/6/8/11, EN 60601-1-2, EN 300 328-2, EN 300 422-2, EN 301 419-1, EN 301 489-01/03/07/08/09/17, EN 301 419-2/3, EN 300 454-2, EN 301 357-2	ELA 124a ELA 124b ELA 124c
Taiwan	CNLA	EN 300 328-1/2, EN 300 220-1/2/3, EN 300 440-1/2, EN 61000-3-2, EN 61000-3-3, 47 CFR FCC Part 15 Subpart C/D/E, EN 55013, CNS 13439, EN 55014-1, CNS 13783-1, EN 55022, CNS 13438, CISPR 22, AS/NZS 3548, EN 61000-4-2/3/4/5/6/8/11, ENV 50204, IEEE Std 1528, FCC OET Bulletin, 65+Supplement C, EN50360, EN50361, EN50371, RSS102	CNLA 0 3 6 3 ILAC MRA
Taiwan	BSMI	CNS 13438, CNS 13783-1, CNS 13439, CNS 14115	SL2-IS-E-0014 SL2-IN-E-0014 SL2-A1-E-0014 SL2-R1-E-0014 SL2-R2-E-0014 SL2-L1-E-0014
Canada	Industry Canada	3/10 meter Open Area Test Sites (IC 3991-3, IC 3991-4) / 3M Semi Anechoic Chamber (IC 6106) to perform RSS 212 Issue 1	Canada IC 3991-3 IC 3991-4 IC 6106

^{*} No part of this report may be used to claim or imply product endorsement by NVLAP or any agency of the US Government.

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^{*} Australia: MRA of NVLAP AS/NZS 4771 &AS/NZS 4268.

6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	FCC ID	Data Cable	Power Cord
1.	Notebook PC	IBM	2672(X31)	99РВТКВ	FCC DoC	N/A	AC I/P: Unshielded, 1.8m DC O/P: Unshielded, 1.8m with a core
2.	Super a/g 108Mbps Wireless Lan Router (Remote)	PLANEX	BLW-04SAG	40DDA0421	FCC DoC	Unshielded, 10m	Unshielded, 1.8m

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Remark:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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7. FCC PART 15.247 REQUIREMENTS

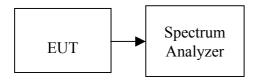
7.1 6dB BANDWIDTH

LIMIT

According to §15.247(a)(2), systems using digital modulation techniques may operate in the 902 - 928 MHz, 2400 - 2483.5 MHz, and 5725 - 5850 MHz bands. The minimum 6dB bandwidth shall be at least 500 kHz.

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Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as RBW = 100 kHz, VBW = RBW, Span = 50 MHz, Sweep = auto.
- 4. Mark the peak frequency and –6dB (upper and lower) frequency.
- 5. Repeat until all the rest channels are investigated.

TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
Low	2412	11170		PASS
Mid	2437	9830	>500	PASS
High	2462	10330		PASS

Test mode: IEEE 802.11g

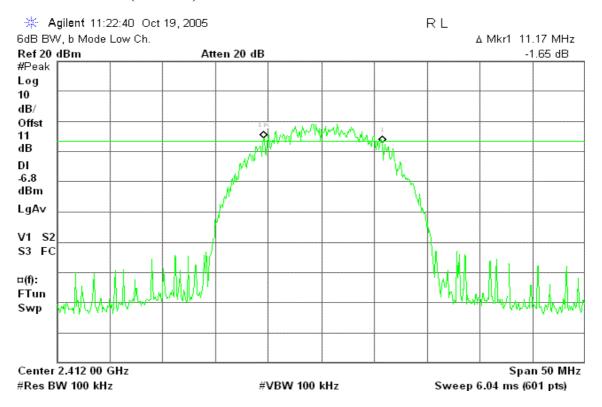
Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Result
Low	2412	16420		PASS
Mid	2437	16420	>500	PASS
High	2462	16500		PASS

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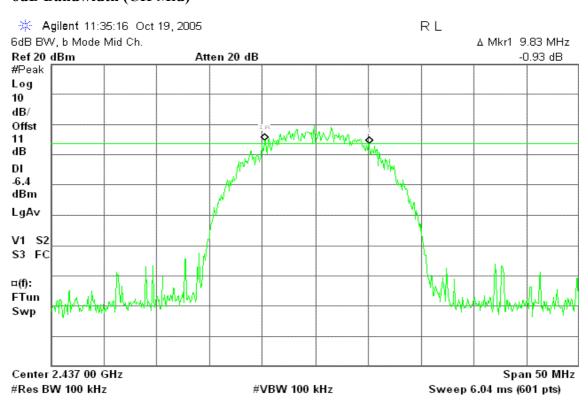
Test Plot

IEEE 802.11b

6dB Bandwidth (CH Low)

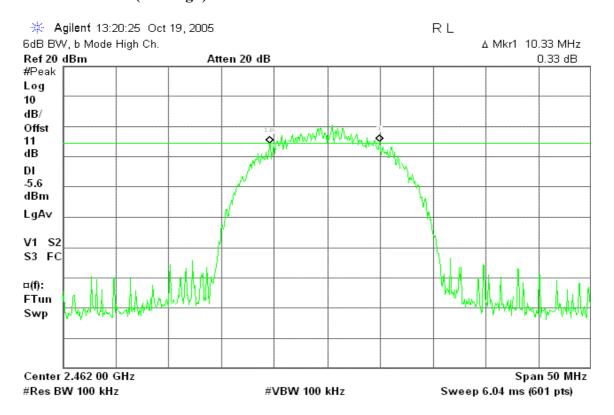


6dB Bandwidth (CH Mid)



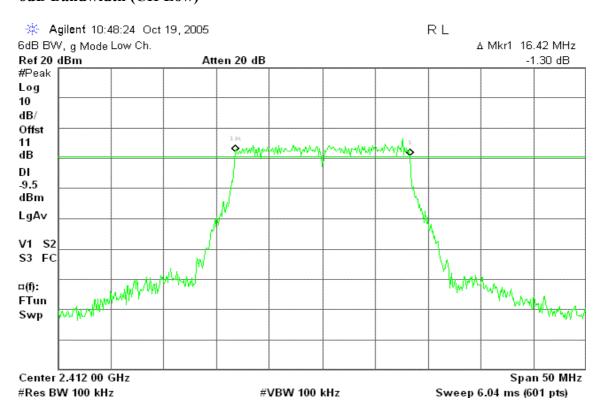
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6dB Bandwidth (CH High)



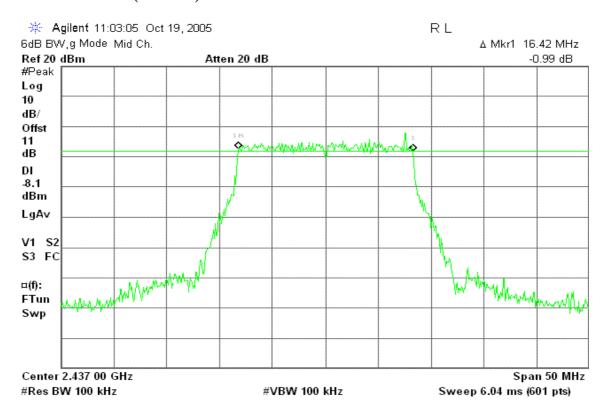
IEEE 802.11g

6dB Bandwidth (CH Low)

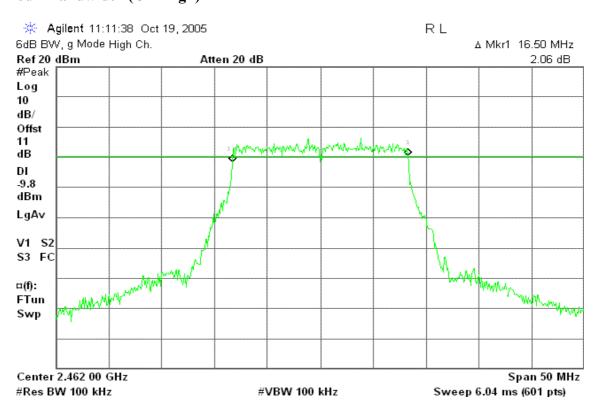


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6dB Bandwidth (CH Mid)



6dB Bandwidth (CH High)



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7.2 PEAK POWER

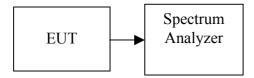
LIMIT

The maximum peak output power of the intentional radiator shall not exceed the following:

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- 1. According to \$15.247(b)(3), for systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 Watt.
- 2. According to §15.247(b)(4), the conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the Spectrum analyzer. The Spectrum analyzer is set to the peak power detection.

TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	13.40	0.0219		PASS
Mid	2437	12.84	0.0192	1	PASS
High	2462	13.33	0.0215		PASS

Test mode: IEEE 802.11g

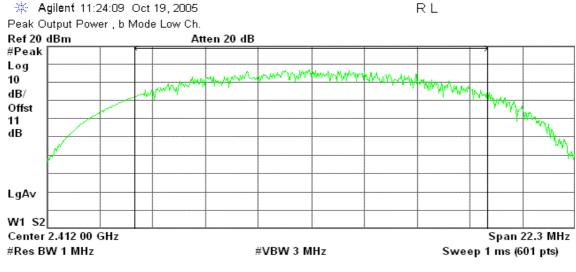
6					
Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	Limit (W)	Result
Low	2412	12.86	0.0193		PASS
Mid	2437	13.52	0.0225	1	PASS
High	2462	13.04	0.0201		PASS

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Test Plot

IEEE 802.11b

Peak Power (CH Low)



Channel Power

Power Spectral Density

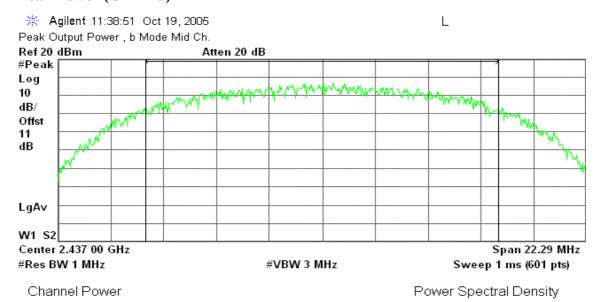
13.40 dBm / 14.8700 MHz

12.84 dBm / 14.8570 MHz

-58.32 dBm/Hz

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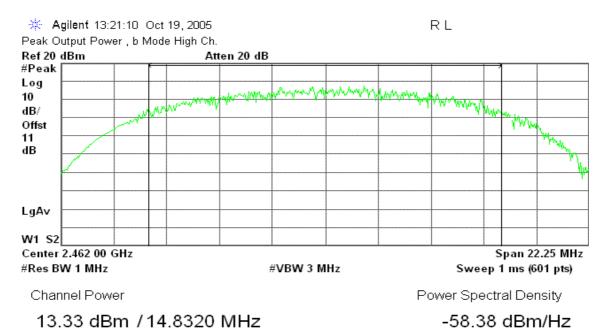
Peak Power (CH Mid)



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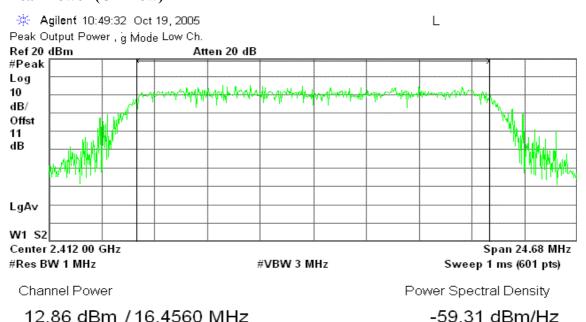
-58.88 dBm/Hz

Peak Power (CH High)



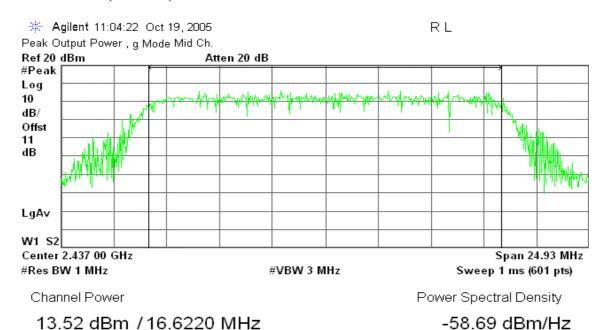
IEEE 802.11g

Peak Power (CH Low)



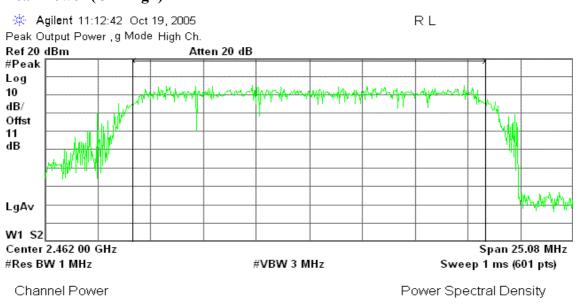
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Peak Power (CH Mid)



Peak Power (CH High)

13.04 dBm / 16.7180 MHz



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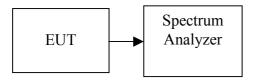
-59.19 dBm/Hz

7.3 AVERAGE POWER

LIMIT

None; for reporting purposes only.

Test Configuration



TEST PROCEDURE

The transmitter output is connected to the Spectrum analyzer. The Spectrum analyzer is set to the average power detection.

TEST RESULTS

No non-compliance noted.

Test Data

Test mode: IEEE 802.11b mode

Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)	
Low	2412	10.53	0.0113	
Mid	2437	9.72	0.0094	
High	2462	10.12	0.0103	

Test mode: IEEE 802.11g mode

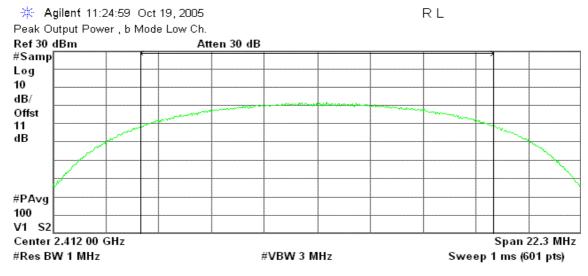
Channel	Frequency (MHz)	Output Power (dBm)	Output Power (W)
Low	2412	9.39	0.0087
Mid	2437	9.75	0.0094
High	2462	9.33	0.0086

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Test Plot

IEEE 802.11b

CH Low



Channel Power

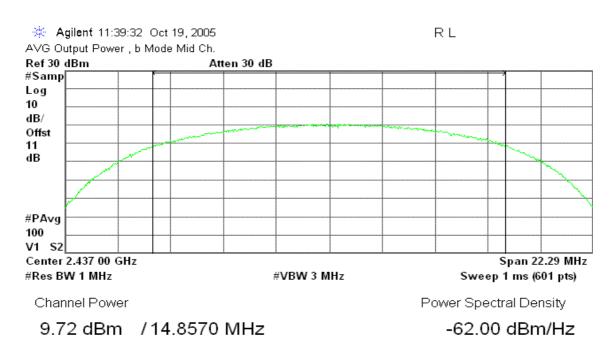
Power Spectral Density

10.53 dBm / 14.8700 MHz

-61.20 dBm/Hz

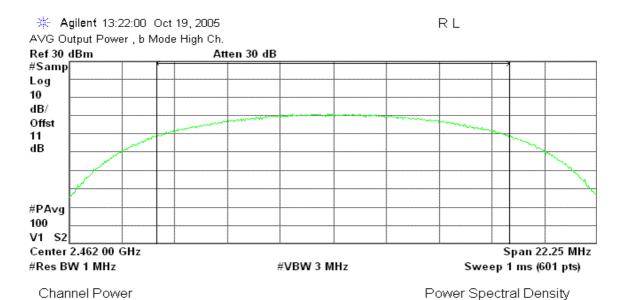
Date of Issue: December 14, 2005

CH Mid



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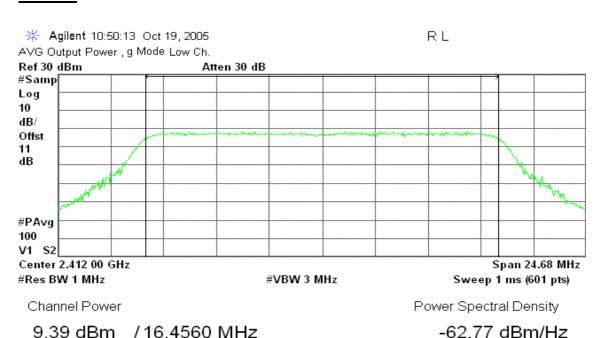
CH High



IEEE 802.11g

10.12 dBm /14.8320 MHz

CH Low

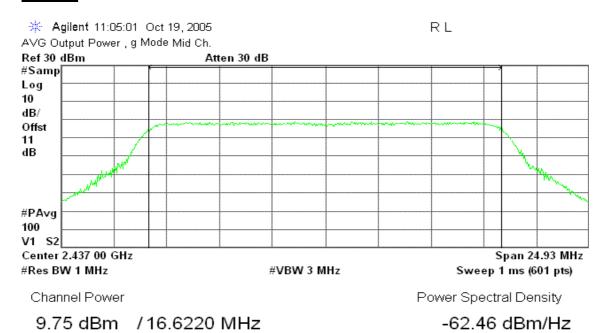


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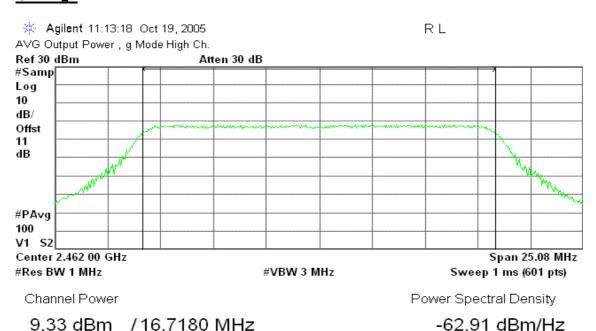
Date of Issue: December 14, 2005

-61.59 dBm/Hz

CH Mid



CH High



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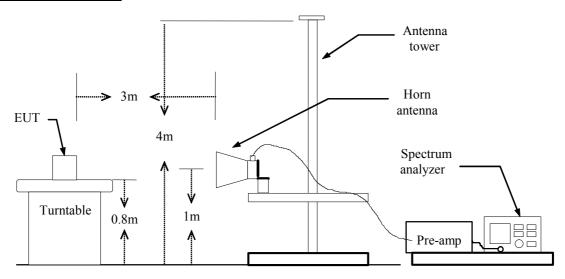
7.4 BAND EDGES MEASUREMENT

LIMIT

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in 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, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

Date of Issue: December 14, 2005

Test Configuration



TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m above the ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
- 4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=VBW=1MHz / Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO
- 5. Repeat the procedures until all the PEAK and AVERAGE versus POLARIZATION are measured.

TEST RESULTS

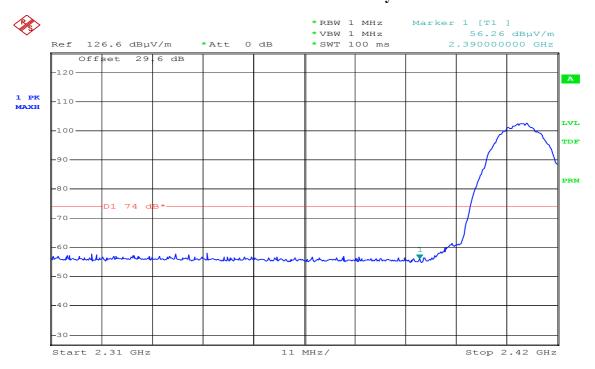
Refer to attach spectrum analyzer data chart.

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-WU61S Date of Issue: December 14, 2005

Band Edges (IEEE 802.11b / CH Low)

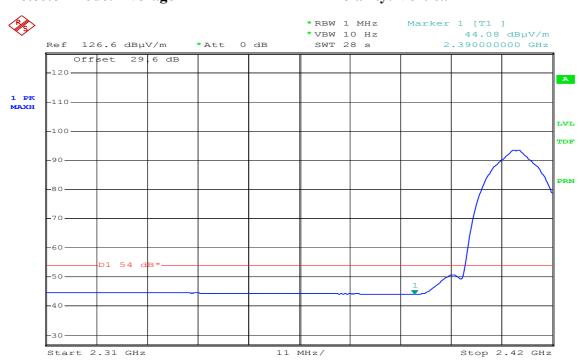
Detector mode: Peak Polarity: Vertical



Date: 14.DEC.2005 06:44:14

Detector mode: Average

Polarity: Vertical



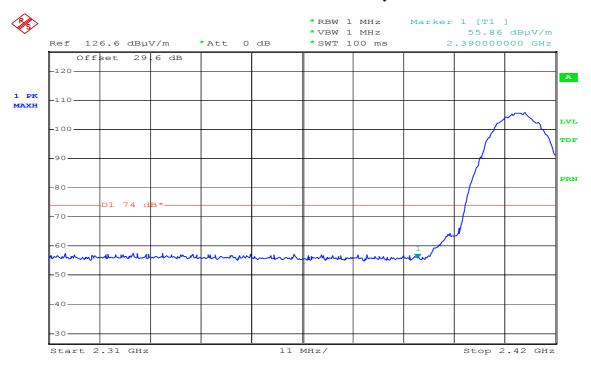
Date: 14.DEC.2005 06:43:16

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FCC ID: RXZ-WU61S Date of Issue: December 14, 2005

Detector mode: Peak

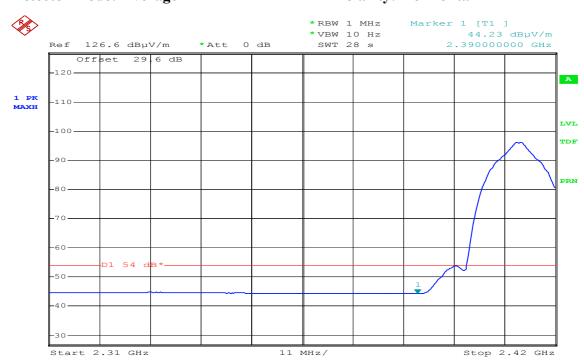
Polarity: Horizontal



Date: 14.DEC.2005 06:52:57

Detector mode: Average

Polarity: Horizontal



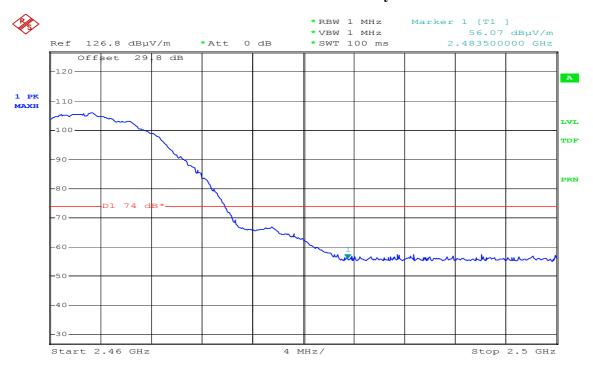
Date: 14.DEC.2005 06:55:10

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WU61S Date of Issue: December 14, 2005

Band Edges (IEEE 802.11b / CH High)

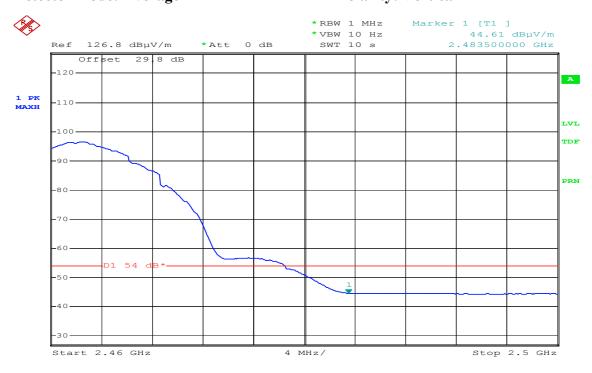
Detector mode: Peak Polarity: Vertical



Date: 14.DEC.2005 07:10:41

Detector mode: Average

Polarity: Vertical



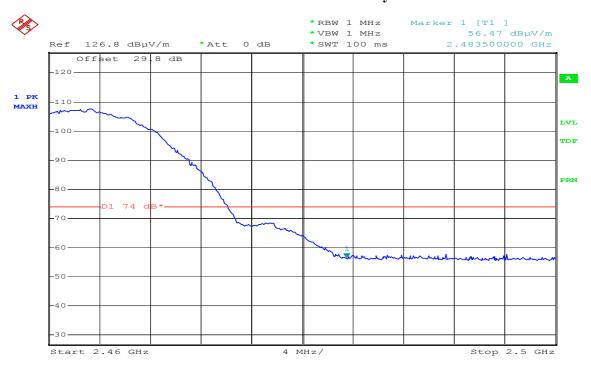
Date: 14.DEC.2005 07:12:44

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Detector mode: Peak

Polarity: Horizontal

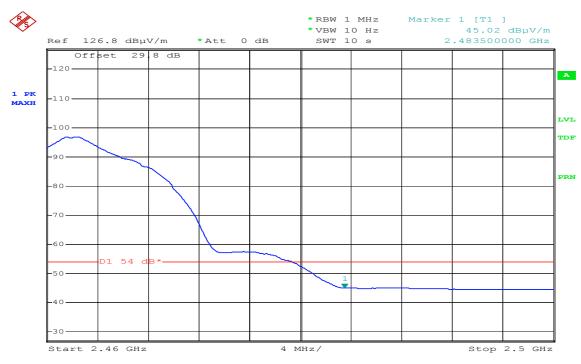
Date of Issue: December 14, 2005



Date: 14.DEC.2005 07:03:22

Detector mode: Average

Polarity: Horizontal



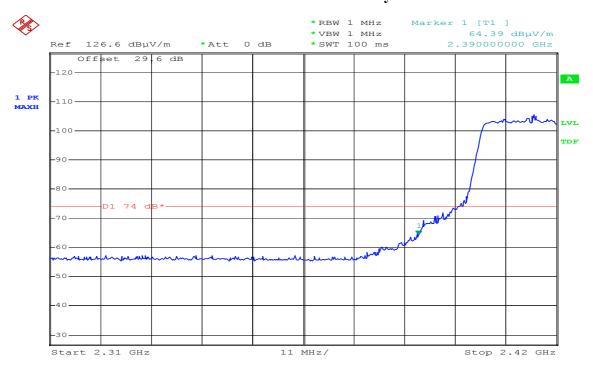
Date: 14.DEC.2005 07:01:51

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Date of Issue: December 14, 2005

Band Edges (IEEE 802.11g / CH Low)

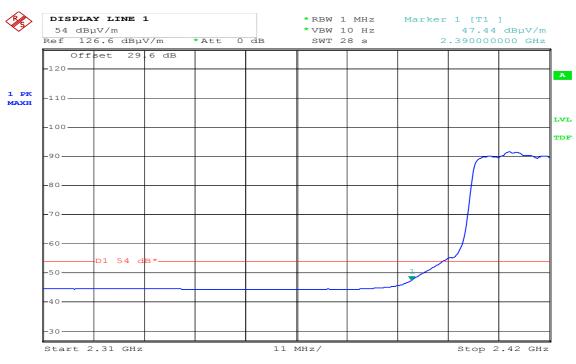
Detector mode: Peak Polarity: Vertical



Date: 14.DEC.2005 08:14:08

Detector mode: Average

Polarity: Vertical



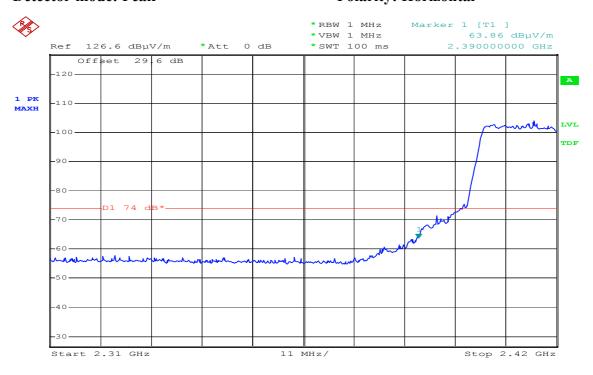
Date: 14.DEC.2005 08:15:48

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Detector mode: Peak

Polarity: Horizontal

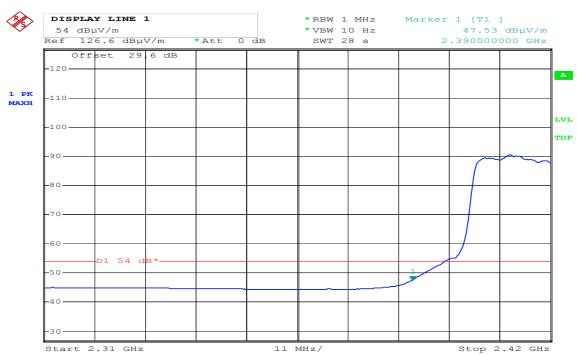
Date of Issue: December 14, 2005



Date: 14.DEC.2005 08:20:51

Detector mode: Average

Polarity: Horizontal



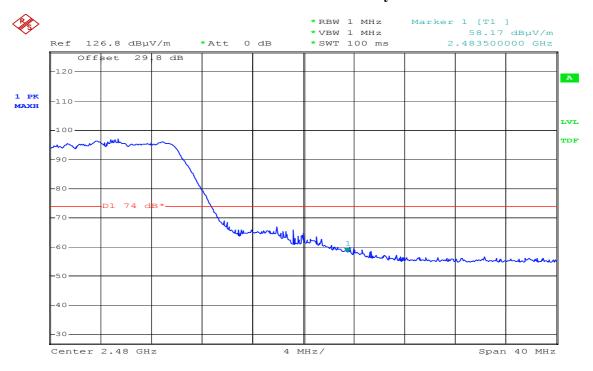
Date: 14.DEC.2005 08:22:38

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Date of Issue: December 14, 2005

Band Edges (IEEE 802.11g / CH High)

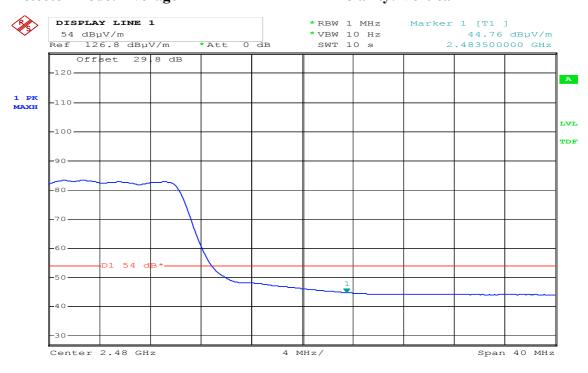
Detector mode: Peak Polarity: Vertical



Date: 14.DEC.2005 08:05:43

Detector mode: Average

Polarity: Vertical



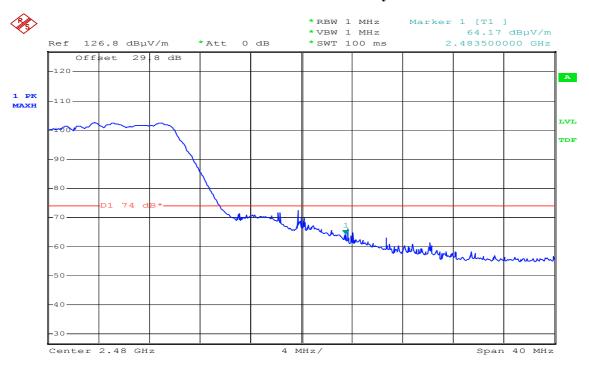
Date: 14.DEC.2005 08:07:37

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Report No.: 51006217-RP1 FCC ID: RXZ-WU61S Date of Issue: December 14, 2005

Detector mode: Peak

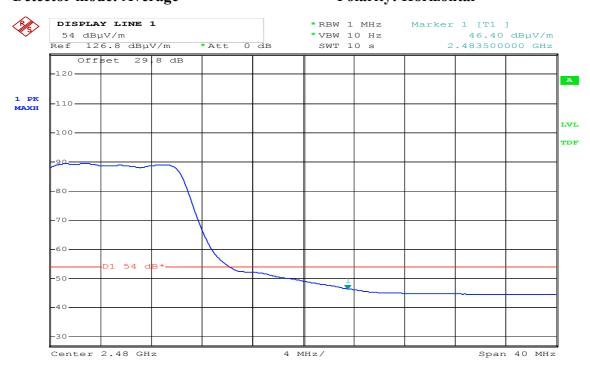
Polarity: Horizontal



Date: 14.DEC.2005 07:58:11

Detector mode: Average

Polarity: Horizontal



Date: 14.DEC.2005 08:01:03

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7.5 PEAK POWER SPECTRAL DENSITY

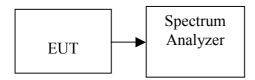
LIMIT

1. According to §15.247(e), for digitally modulated systems, the 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.

Date of Issue: December 14, 2005

2. According to §15.247(f), the digital modulation operation of the hybrid system, with the frequency hopping turned off, shall comply with the power density requirements of paragraph (d) of this section.

Test Configuration



TEST PROCEDURE

- 1. Place the EUT on the table and set it in transmitting mode.

 Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set the spectrum analyzer as RBW = 3 kHz, VBW = 10 kHz, Span = 300 kHz, Sweep = 100 s
- 3. Record the max reading.
- 4. Repeat the above procedure until the measurements for all frequencies are completed.

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TEST RESULTS

No non-compliance noted

Test Data

Test mode: IEEE 802.11b

Channel	Frequency	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-11.52		PASS
Mid	2437	-0.86	8.00	PASS
High	2462	-6.82		PASS

Test mode: IEEE 802.11g

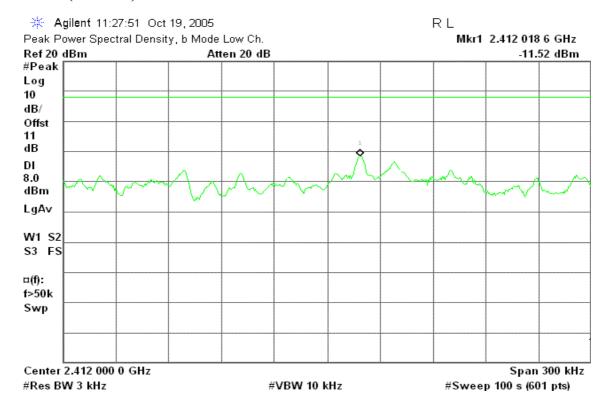
Channel	Frequency	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-13.95		PASS
Mid	2437	-12.11	8.00	PASS
High	2462	-13.74		PASS

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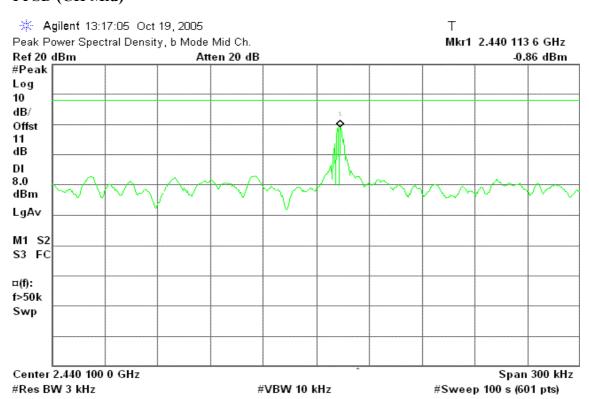
Test Plot

IEEE 802.11b

PPSD (CH Low)

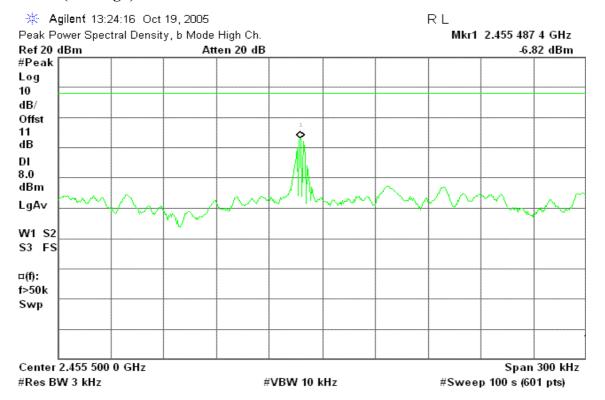


PPSD (CH Mid)



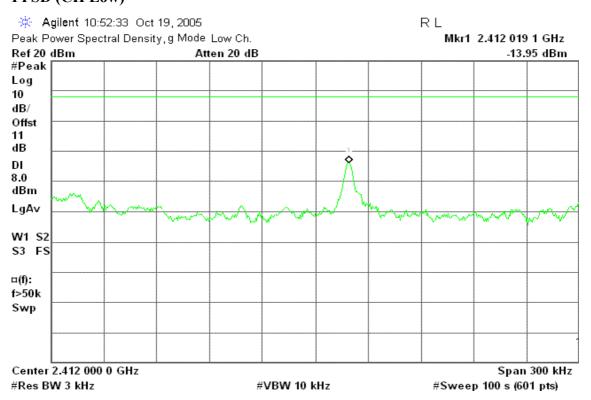
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PPSD (CH High)



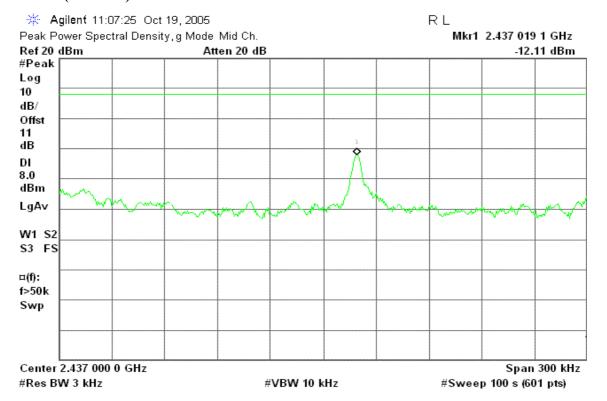
IEEE 802.11g

PPSD (CH Low)

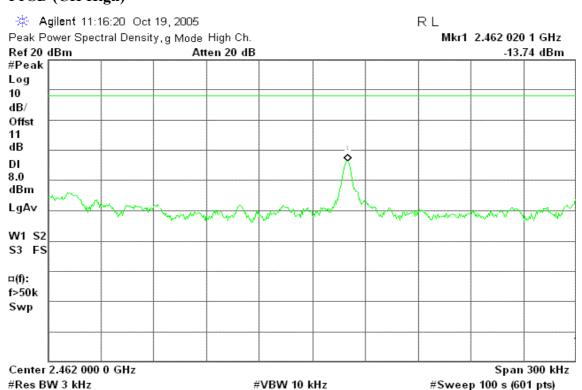


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PPSD (CH Mid)



PPSD (CH High)



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7.6 SPURIOUS EMISSIONS

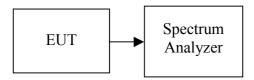
7.6.1 Conducted Measurement

LIMIT

According to §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in 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, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in 15.209(a) (see Section 15.205(c)).

Date of Issue: December 14, 2005

Test Configuration



TEST PROCEDURE

Conducted RF measurements of the transmitter output were made to confirm that the EUT antenna port conducted emissions meet the specified limit and to identify any spurious signals that require further investigation or measurements on the radiated emissions site.

The transmitter output is connected to the spectrum analyzer. The resolution bandwidth is set to 100 kHz. The video bandwidth is set to 300 kHz.

Measurements are made over the 30MHz to 26GHz range with the transmitter set to the lowest, middle, and highest channels.

TEST RESULTS

No non-compliance noted

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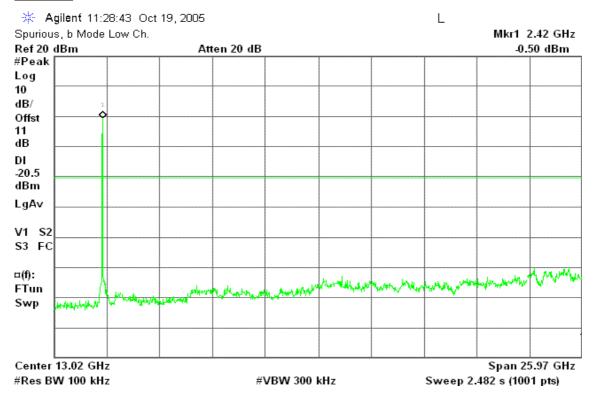


Date of Issue: December 14, 2005

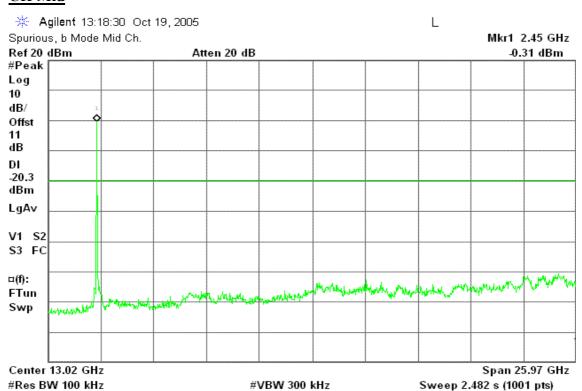
Test Plot

IEEE 802.11b

CH Low

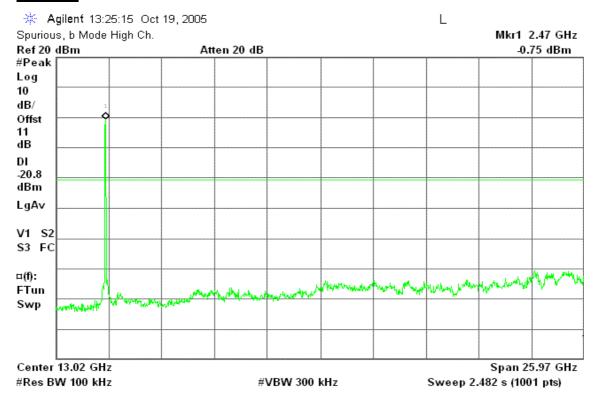


CH Mid



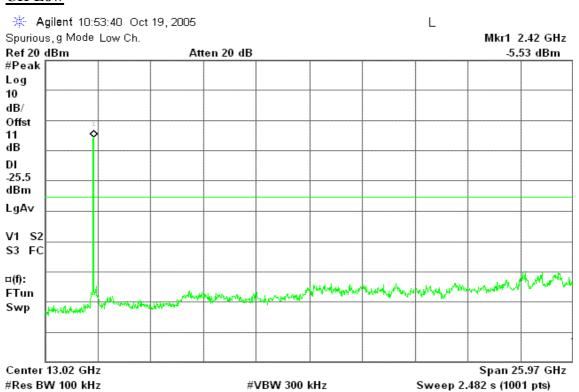
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CH High



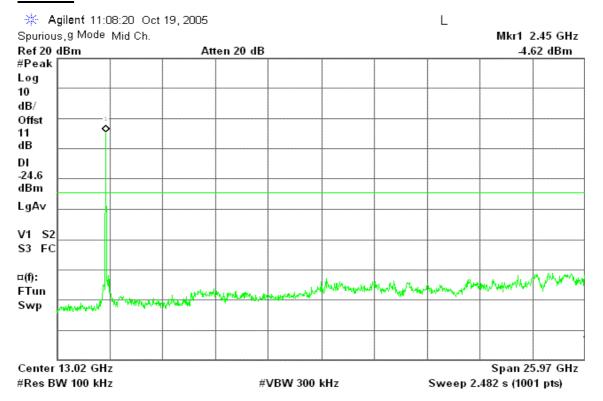
IEEE 802.11g

CH Low

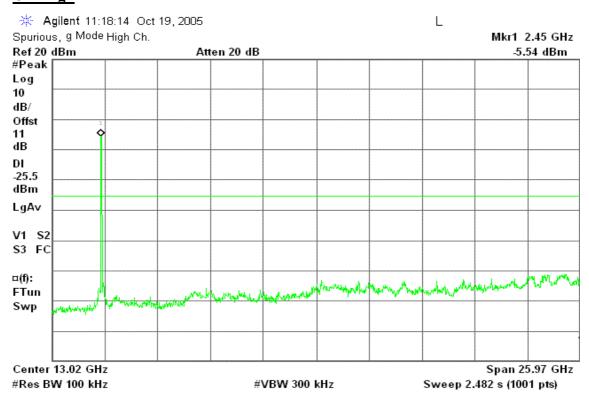


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CH Mid



CH High



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7.6.2 RADIATED EMISSIONS

LIMIT

1. According to §15.209(a), except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
30-88	100*	3
88-216	150*	3
216-960	200*	3
Above 960	500	3

Date of Issue: December 14, 2005

Remark: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

2. In the emission table above, the tighter limit applies at the band edges.

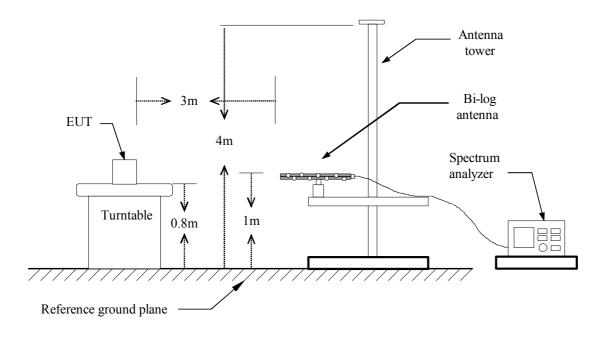
Frequency (MHz)	Field Strength (μV/m at 3-meter)	Field Strength (dBµV/m at 3-meter)
30-88	100	40
88-216	150	43.5
216-960	200	46
Above 960	500	54

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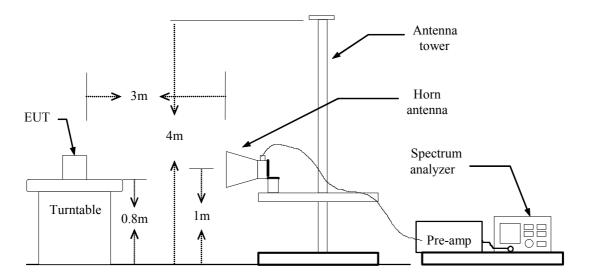
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Test Configuration

Below 1 GHz



Above 1 GHz



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TEST PROCEDURE

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
- 3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.

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- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Set the spectrum analyzer in the following setting as:

Below 1GHz:

RBW=100kHz / VBW=300kHz / Sweep=AUTO

Above 1GHz:

(a) PEAK: RBW=VBW=1MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz / VBW=10Hz / Sweep=AUTO

7. Repeat above procedures until the measurements for all frequencies are complete.

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TEST RESULTS

Below 1 GHz

Operation Mode: Normal Link **Test Date:** October 20, 2005

Date of Issue: December 14, 2005

Temperature: 26°C **Tested by:** Ryan Chen **Humidity:** 55 % RH **Polarity:** Ver. / Hor.

Freq. (MHz)	Ant.Pol. H/V	Detector Mode (PK/QP)	Reading (dBuV)	Factor (dB/m)	Actual FS (dBuV/m)	Limit 3m (dBuV/m)	Safe Margin (dB)
244.50	V	Peak	39.46	-12.26	27.20	46.00	-18.80
453.93	V	Peak	34.61	-8.96	25.65	46.00	-20.35
665.93	V	Peak	37.92	-5.61	32.31	46.00	-13.69
719.95	V	Peak	33.97	-5.18	28.79	46.00	-17.21
841.29	V	Peak	33.58	-3.36	30.22	46.00	-15.78
952.00	V	Peak	31.68	-1.76	29.92	54.00	-24.08
233.50	Н	Peak	36.69	-12.65	24.04	46.00	-21.96
454.80	Н	Peak	37.09	-8.94	28.15	46.00	-17.85
599.35	Н	Peak	34.14	-6.26	27.88	46.00	-18.12
720.59	Н	Peak	31.88	-5.17	26.71	46.00	-19.29
798.63	Н	Peak	32.03	-3.94	28.09	46.00	-17.91
883.68	Н	Peak	31.67	-2.56	29.11	46.00	-16.89

Remark:

- 1. Measuring frequencies from 30 MHz to the 1GHz.
- 2. Radiated emissions measured in frequency range from 30 MHz to 1000MHz were made with an instrument using Peak/Quasi-peak detector mode.
- 3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 4. The IF bandwidth of SPA between 30MHz and 1GHz was 100 kHz.

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Above 1 GHz

Operation Mode: TX / IEEE 802.11b / CH Low Test Date: October 14, 2005

Date of Issue: December 14, 2005

Temperature: 25°C **Tested by:** Ryan Chen **Humidity:** 58 % RH **Polarity:** Ver. / Hor.

Frequency (MHz)	Ant. Pol. H/V	Reading (dBuV)	Corr. (dB/m)	Result (Peak/ Average) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark (Peak/ Average)
1064.00	V	50.88	-6.81	44.07	54.00	-9.93	Peak
1728.00	V	53.28	-6.61	46.68	54.00	-7.32	Peak
4825.00	V	50.42	0.64	51.06	54.00	-2.94	Peak
12060.00	V	62.34	-34.26	28.09	54.00	-25.91	Peak
14470.00	V	66.00	-33.34	32.65	54.00	-21.35	Peak
N/A							
1598.00	Н	47.54	-6.84	40.70	54.00	-13.30	Peak
4825.00	Н	45.22	0.64	45.86	54.00	-8.14	Peak
9650.00	Н	61.99	-34.53	27.47	54.00	-26.53	Peak
12060.00	Н	62.95	-34.26	28.69	54.00	-25.31	Peak
14470.00	Н	65.22	-33.34	31.88	54.00	-22.12	Peak
N/A							

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit, but not more than 20dB.
 - $Peak\ limit\ (74dBuV/m) = Average\ Limit\ (54dBuV/m) + 20dB$
- 3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 4. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak/Average detector mode of the emission shown in Remark column.
- 5. Margin (dB) = Result (Remark) Limit (Average) (dBuV/m).

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Operation Mode: TX / IEEE 802.11b / CH Mid **Test Date:** October 14, 2005

Date of Issue: December 14, 2005

Temperature:25°CTested by:Ryan ChenHumidity:58 % RHPolarity:Ver. / Hor.

Frequency (MHz)	Ant. Pol. H/V	Reading (dBuV)	Corr. (dB/m)	Result (Peak/ Average) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark (Peak/ Average)
1732.00	V	52.35	-6.60	45.75	54.00	-8.25	Peak
4875.00	V	45.72	0.81	46.54	54.00	-7.46	Peak
14620.00	V	59.85	-32.83	27.02	54.00	-26.98	Peak
N/A							
1468.00	Н	48.36	-7.00	41.36	54.00	-12.64	Peak
4875.00	Н	43.59	0.81	44.40	54.00	-9.60	Peak
N/A							

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit, but not more than 20dB.
 - $Peak\ limit\ (74dBuV/m) = Average\ Limit\ (54dBuV/m) + 20dB$
- 3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 4. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak/Average detector mode of the emission shown in Remark column.
- 5. Margin (dB) = Result (Remark) Limit (Average) (dBuV/m).

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Operation Mode: TX / IEEE 802.11b / CH High **Test Date:** October 14, 2005

Date of Issue: December 14, 2005

Temperature:25°CTested by:Ryan ChenHumidity:58 % RHPolarity:Ver. / Hor.

Frequency (MHz)	Ant. Pol. H/V	Reading (dBuV)	Corr. (dB/m)	Result (Peak/ Average) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark (Peak/ Average)
1730.00	V	55.54	-6.60	48.94	54.00	-5.06	Peak
4925.00	V	44.92	0.99	45.92	54.00	-8.08	Peak
14770.00	V	64.55	-32.23	32.32	54.00	-21.68	Peak
N/A							
1602.00	Н	47.81	-6.83	40.98	54.00	-13.02	Peak
4920.00	Н	43.25	0.98	44.23	54.00	-9.77	Peak
14770.00	Н	63.57	-32.23	31.34	54.00	-22.66	Peak
N/A							

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit, but not more than 20dB.
 - $Peak\ limit\ (74dBuV/m) = Average\ Limit\ (54dBuV/m) + 20dB$
- 3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 4. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak/Average detector mode of the emission shown in Remark column.
- 5. Margin (dB) = Result (Remark) Limit (Average) (dBuV/m).

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Operation Mode: TX / IEEE 802.11g / CH Low **Test Date:** October 14, 2005

Date of Issue: December 14, 2005

Temperature:25°CTested by:Ryan ChenHumidity:58 % RHPolarity:Ver. / Hor.

Frequency (MHz)	Ant. Pol. H/V	Reading (dBuV)	Corr. (dB/m)	Result (Peak/ Average) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark (Peak/ Average)
1064.00	V	53.45	-6.81	46.64	54.00	-7.36	Peak
1198.00	V	53.28	-6.88	46.41	54.00	-7.59	Peak
1728.00	V	58.13	-6.61	51.53	54.00	-2.47	Peak
N/A							
1464.00	Н	50.19	-7.00	43.19	54.00	-10.81	Peak
1600.00	Н	47.55	-6.84	40.71	54.00	-13.29	Peak
N/A							

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit, but not more than 20dB.
 - $Peak\ limit\ (74dBuV/m) = Average\ Limit\ (54dBuV/m) + 20dB$
- 3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 4. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak/Average detector mode of the emission shown in Remark column.
- 5. Margin (dB) = Result (Remark) Limit (Average) (dBuV/m).

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Operation Mode: TX / IEEE 802.11g / CH Mid **Test Date:** October 14, 2005

Date of Issue: December 14, 2005

Temperature:25°CTested by:Ryan ChenHumidity:58 % RHPolarity:Ver. / Hor.

Frequency (MHz)	Ant. Pol. H/V	Reading (dBuV)	Corr. (dB/m)	Result (Peak/ Average) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark (Peak/ Average)
1066.00	V	52.04	-6.81	45.22	54.00	-8.78	Peak
1198.00	V	50.47	-6.88	43.59	54.00	-10.41	Peak
1732.00	V	53.40	-6.60	46.81	54.00	-7.19	Peak
N/A							
1468.00	Н	47.72	-7.00	40.71	54.00	-13.29	Peak
1600.00	Н	47.20	-6.84	40.36	54.00	-13.64	Peak
N/A							

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit, but not more than 20dB.
 - $Peak\ limit\ (74dBuV/m) = Average\ Limit\ (54dBuV/m) + 20dB$
- 3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 4. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak/Average detector mode of the emission shown in Remark column.
- 5. Margin (dB) = Result (Remark) Limit (Average) (dBuV/m).

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Operation Mode: TX / IEEE 802.11g / CH High **Test Date:** October 14, 2005

Date of Issue: December 14, 2005

Temperature:25°CTested by:Ryan ChenHumidity:58 % RHPolarity:Ver. / Hor.

Frequency (MHz)	Ant. Pol. H/V	Reading (dBuV)	Corr. (dB/m)	Result (Peak/ Average) (dBuV/m)	Limit (Average) (dBuV/m)	Margin (dB)	Remark (Peak/ Average)
1196.00	V	51.60	-6.87	44.72	54.00	-9.28	Peak
1598.00	V	53.60	-6.84	46.76	54.00	-7.24	Peak
1732.00	V	53.23	-6.60	46.63	54.00	-7.37	Peak
4925.00	V	44.03	0.99	45.02	54.00	-8.98	Peak
N/A							
1596.00	Н	47.52	-6.85	40.68	54.00	-13.32	Peak
N/A							

Remark:

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Average test would be performed if the peak result were greater than the average limit, but not more than 20dB.
 - $Peak\ limit\ (74dBuV/m) = Average\ Limit\ (54dBuV/m) + 20dB$
- 3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 4. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak/Average detector mode of the emission shown in Remark column.
- 5. Margin (dB) = Result (Remark) Limit (Average) (dBuV/m).

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7.7 POWERLINE CONDUCTED EMISSIONS

LIMIT

According to $\S15.207(a)$, except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Date of Issue: December 14, 2005

Frequency Range (MHz)	Limits (dBµV)				
(MIIIZ)	Quasi-peak	Average			
0.15 to 0.50	66 to 56*	56 to 46*			
0.50 to 5	56	46			
5 to 30	60	50			

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

Test Configuration

See test photographs attached in Appendix 1 for the actual connections between EUT and support equipment.

TEST PROCEDURE

- 1. The EUT was placed on a table, which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

TEST RESULTS

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Date of Issue: December 14, 2005

Test Data

Operation Mode: Normal Link **Test Date:** October 26, 2005

Temperature: 25°C **Tested by:** Mark Chen

Humidity: 55% RH

Freq. (MHz)	QP Reading (dBuV)	AV Reading (dBuV)	Corr. factor (dB)	QP Result (dBuV)	AV Result (dBuV)	QP Limit (dBuV)	AV Limit (dBuV)	QP Margin (dB)	AV Margin (dB)	Note
0.192	48.860	41.760	0.116	48.976	41.876	63.950	53.950	-14.974	-12.074	L1
0.320	33.720	25.230	0.100	33.820	25.330	59.707	49.707	-25.887	-24.377	L1
5.955	21.730	12.660	0.295	22.025	12.955	60.000	50.000	-37.975	-37.045	L1
14.769	29.080	23.570	0.795	29.875	24.365	60.000	50.000	-30.125	-25.635	L1
19.992	30.090	21.890	1.199	31.289	23.089	60.000	50.000	-28.711	-26.911	L1
27.497	27.110	16.770	1.300	28.410	18.070	60.000	50.000	-31.590	-31.930	L1
0.187	47.390	41.450	0.126	47.516	41.576	64.169	54.169	-16.653	-12.593	L2
0.315	32.860	29.420	0.100	32.960	29.520	59.838	49.838	-26.878	-20.318	L2
0.443	33.490	29.910	0.100	33.590	30.010	57.005	47.005	-23.415	-16.995	L2
0.568	30.440	29.520	0.100	30.540	29.620	56.000	46.000	-25.460	-16.380	L2
3.519	21.080	4.960	0.100	21.180	5.060	56.000	46.000	-34.820	-40.940	L2
15.127	34.930	30.820	0.810	35.740	31.630	60.000	50.000	-24.260	-18.370	L2

Remark:

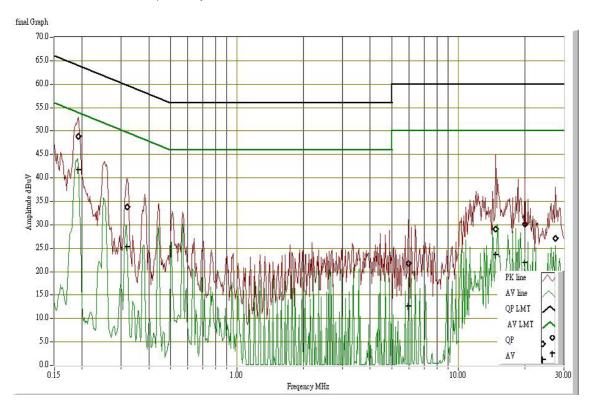
- 1. Measuring frequencies from 0.15 MHz to 30MHz.
- 2. The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.
- 3. The IF bandwidth of SPA between 0.15MHz and 30MHz was 10 kHz; the IF bandwidth of Test Receiver between 0.15MHz and 30MHz was 9 kHz;
- 4. $L1 = Line \ One \ (Live \ Line) \ / \ L2 = Line \ Two \ (Neutral \ Line)$

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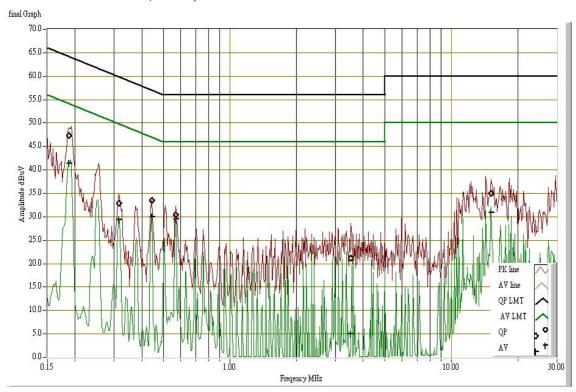
Date of Issue: December 14, 2005

Test Plots

Conducted emissions (Line 1)



Conducted emissions (Line 2)



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APPENDIX 1 RADIO FREQUENCY EXPOSURE

LIMIT

According to §15.247(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this chapter.

Date of Issue: December 14, 2005

EUT Specification

EUT	SiS WLAN 54Mbps USB 2.0 Adapter			
Frequency band (Operating)	 WLAN: 2.412GHz ~ 2.462GHz WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz WLAN: 5.745GHz ~ 5.825GHz Others 			
Device category	Portable (<20cm separation) Mobile (>20cm separation) Others			
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm²) ☐ General Population/Uncontrolled exposure (S=1mW/cm²)			
Antenna diversity	 Single antenna Multiple antennas ☐ Tx diversity ☐ Rx diversity ☐ Tx/Rx diversity 			
Max. output power	IEEE 802.11b: 13.40 dBm (21.88mW) IEEE 802.11g: 13.52 dBm (22.49mW)			
Antenna gain (Max)	-0.72 dBi (Numeric gain: 0.85)			
Evaluation applied	 ☐ MPE Evaluation☐ SAR Evaluation☑ N/A			
 Remark: The maximum output power is 13.52dBm (22.49mW) at 2437MHz (with 0.85 numeric antenna gain.) DTS device is not subject to routine RF evaluation; MPE estimate is used to justify the compliance. For mobile or fixed location transmitters, no SAR consideration applied. The maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger. 				

TEST RESULTS

No non-compliance noted.

(SAR evaluation is not required for the PORTABLE device while its maximum output power is lower than the general population low threshold: $60/f_{(GHz)}=60/2.437=24.62$ mW)

MPE evaluation

Not applicable.

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