FCC 47 CFR PART 15 SUBPART C

Date of Issue: Oct. 27, 2005

TEST REPORT

For

Wireless Broadband Router/ Wireless Access Point

Model Number: GN-BR02G/GN-AP02G

Brand Name: GIGABYTE

Issued to

GIGA-BYTE TECHNOLOGY CO., LTD. NO.6, Bau Chiang Road, Hsin-Tien, Taipei Hsien, Taiwan, R.O.C.

Issued by

Compliance Certification Services Inc. No. 8, Jiu Ceng Ling, Jiaokeng Village, Sinhua Township, Tainan Hsien 712, Taiwan R.O.C.

TEL: 886-6-580-2201 FAX: 886-6-580-2202

TABLE OF CONTENTS

1. T	TEST RESULT CERTIFICATION	3
2. E	EUT DESCRIPTION	4
3. T	TEST METHODOLOGY	5
3.1	EUT CONFIGURATION	5
3.2	EUT EXERCISE	5
3.3	GENERAL TEST PROCEDURES	5
3.4	FCC PART 15.205 RESTRICTED BANDS OF OPERATIONS	6
3.5	DESCRIPTION OF TEST MODES	7
4. II	NSTRUMENT CALIBRATION	7
5. F	FACILITIES AND ACCREDITATIONS	8
5.1	FACILITIES	8
5.2	EQUIPMENT	8
5.3	LABORATORY ACCREDITATIONS AND LISTING	8
5.4	TABLE OF ACCREDITATIONS AND LISTINGS	9
6. S	SETUP OF EQUIPMENT UNDER TEST	10
6.1	SETUP CONFIGURATION OF EUT	10
6.2		
7. F	FCC PART 15.247 REQUIREMENTS	11
7.1	6DB BANDWIDTH	11
7.2	PEAK POWER	20
7.3	BAND EDGES MEASUREMENT	29
7.4	PEAK POWER SPECTRAL DENSITY	54
7.5	RADIO FREQUENCY EXPOSURE	63
7.6		
7.7	POWER LINE CONDUCTED EMISSIONS	106
APPE	ENDIX 1 PHOTOGRAPHS OF TEST SETUP	111

1. TEST RESULT CERTIFICATION

Applicant : GIGA-BYTE TECHNOLOGY CO., LTD.

Address : NO. 6, Bau Chiang Road, Hsin-Tien, Taipei Hsien, Taiwan, R.O.C.

Date of Issue: Oct. 27, 2005

Equipment Under Test: Wireless Broadband Router/ Wireless Access Point

Model Number : GN-BR02G/GN-AP02G

Brand Name : GIGABYTE

Date of Test : Sept. 14 ~ Oct. 07, 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 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:

Alex Chiu

Manager

Compliance Certification Services Inc.

Jeter Wu

Section Manager

Compliance Certification Services Inc.

2. EUT DESCRIPTION

Product	Wireless Broadband Router/ Wireless Access Point
Model Number	GN-BR02G/ GN-AP02G
Brand Name	GIGABYTE
Model Discrepancy	N/A
Power Supply	DC 7.5V 5W
Adapter	FAIRWAY Model: WN10A-050 I /P:100-240V 1.0A MAX 50-60Hz O/P: +5.0V—2.0A OEM Model: AD-0780 I /P:120VAC 60Hz 13W O/P: 7.5VDC 0.8A
Frequency Range	2412 ~ 2462 MHz
Transmit Power	GN-BR02G: IEEE802.11b mode: 25.89 dBm IEEE802.11g mode: 23.81 dBm GN-AP02G: IEEE802.11b mode: 25.40 dBm IEEE802.11g mode: 25.24 dBm
Modulation Technique	IEEE802.11b: DSSS IEEE802.11g: OFDM
Transmit Data Rate IEEE802.11b: 11Mbps(CCK) with fall back rates of 5.5, 2, IEEE802.11g: 54Mbps with fall back rates of 48/36/24/18/1 (OFDM) IEEE802.11g turbo:108 Mbps	
Number of Channels	11 Channels
Antenna Specification	Dipole Antenna 4.5 dBi

Date of Issue: Oct. 27, 2005

Remark: The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer. This submittal(s) (test report) is intended for FCC ID: <u>JCK-GN-BR02G</u> filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

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.

Date of Issue: Oct. 27, 2005

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.

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:

Date of Issue: Oct. 27, 2005

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.

² Above 38.6

3.5DESCRIPTION OF TEST MODES

The EUT (Model: GN-BR02G/GN-AP02G) have been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Date of Issue: Oct. 27, 2005

There are two sources of power adapters: Delta / ADP-10SB and Delta / ADP-10ZB. After verified, the worst data of radiated spurious emission recorded in the test report is Delta / ADP-10SB.

After verification, all tests carried out are with the worst-case test modes as shown below except radiated spurious emission below 1GHz's worst case is in normal link mode.

IEEE802.11b: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 11Mbps higher data rate were chosen for the final testing.

IEEE802.11g: Channel 1(2412MHz), Channel 6(2437MHz) and Channel 11(2462MHz) with 54Mbps higher data rate were chosen for the final testing.

4. 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.

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No. 8, Jiu Ceng Ling, Jiaokeng Village, Sinhua Township, Tainan Hsien 712, Taiwan R.O.C.

Date of Issue: Oct. 27, 2005

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: 200627-0 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: 228014, 781908).

5.4TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	NVLAP	EN 55014-1, CNS 13783-1, AS/NZS CISPR 14.1, IEC/CISPR 14-1, IEC/CISPR 22, CNS 13438, IEC 61000-3-2, IEC 61000-3-3, AS/NZS 61000.3.3, ANSI C63.4, AS/NZS CISPR 22, VCCI, IEC/CISPR 24, IEC 61000-4-2/4/5/6/8/11	200627-0
USA	FCC	3/10 meter Open Area Test Sites to perform FCC Part 15/18 measurements	FC 228014, 781908
Japan	VCCI	3/10 meter Open Area Test Sites and conducted test sites to perform radiated/conducted measurements	VCCI R-1989 C-2142
Taiwan	CNLA	CISPR 11 FCC METHOD-47 CFR Part 18 EN 55011 CNS 13803, CISPR 14 EN 55014 CNS 13783-1, CISPR 22 EN 55022 VCCI FCC Method-47 CFR Part 15 Subpart B CNS 13438	1109 ILAC MRA
Taiwan	BSMI	CNS 13438, CNS 13783-1, CNS 13803	SL2-IS-E-0039 SL2-IN-E-0039 SL2-A1-E-0039

Date of Issue: Oct. 27, 2005

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

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.

Date of Issue: Oct. 27, 2005

6.2 SUPPORT EQUIPMENT

No.	Product	Manufacturer	Model No.	FCC ID	Signal cable
1	Note Book	HP	IBM	DOC	N/A
2	Note Book	HP	CNC 6000	CNTPP2090	N/A

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.

7. FCC PART 15.247 REQUIREMENTS

7.1 6DB BANDWIDTH

LIMIT

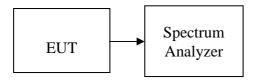
For the direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Date of Calibration
SPECTRUM ANALYZER	R&S	FSEM	829054/017	Mar. 18, 2005

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

Test Configuration



TEST PROCEDURE

- 1. Turn on PC and run test program.
- 2. Setup EUT in test mode.
- 3. Start test.

TEST RESULTS

No non-compliance noted

Test Data

For Model: GN-BR02G

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Margin (kHz)
Low	2412	12124	>500	PASS
Mid	2437	12224		PASS
High	2462	11923		PASS

Test mode: IEEE 802.11g

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Margin (kHz)
Low	2412	16332	>500	PASS
Mid	2437	16332		PASS
High	2462	16332		PASS

Test mode: IEEE 802.11Turbo g

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Margin (kHz)
Low				
Mid	2437	33166	>500	PASS
High				

For Model: GN-AP02G

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Margin (kHz)
Low	2412	11923	>500	PASS
Mid	2437	11272		PASS
High	2462	11322		PASS

Test mode: IEEE 802.11g

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Margin (kHz)
Low	2412	16633	>500	PASS
Mid	2437	16633		PASS
High	2462	16633		PASS

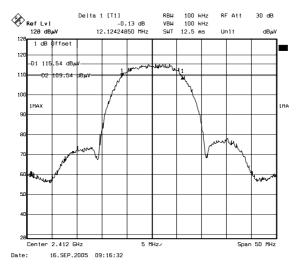
Test mode: IEEE 802.11Turbo g

Channel	Frequency (MHz)	Bandwidth (kHz)	Limit (kHz)	Margin (kHz)
Low				
Mid	2437	32865	>500	PASS
High				

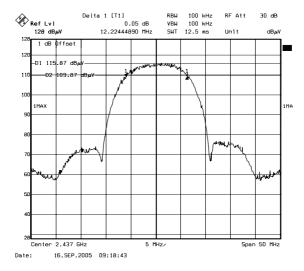
Test Plot For Model: GN-BR02G

IEEE 802.11b mode

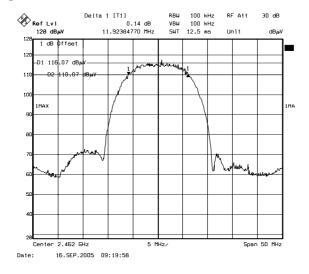
6dB Bandwidth (CH Low)



6dB Bandwidth (CH Mid)



6dB Bandwidth (CH High)

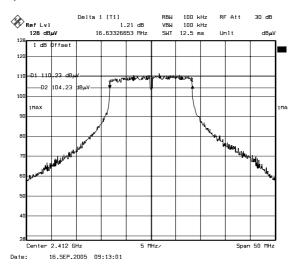




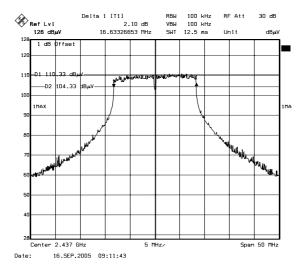
Date of Issue: Oct. 27, 2005

IEEE 802.11g mode

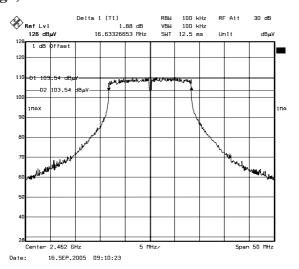
6dB Bandwidth (CH Low)



6dB Bandwidth (CH Mid)

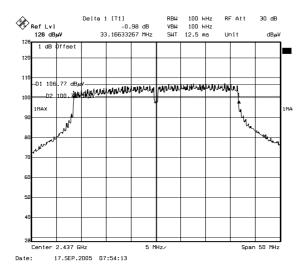


6dB Bandwidth (CH High)



IEEE 802.11 Turbo g mode

6dB Bandwidth (CH Mid.)



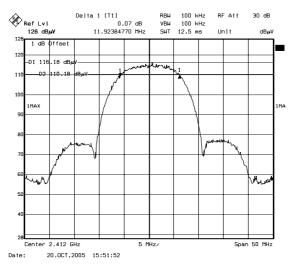
FCC ID: JCK-GN-BR02G

Date of Issue: Oct. 27, 2005

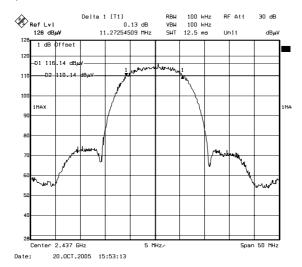
Test Plot For Model: GN-AP02G

IEEE 802.11b mode

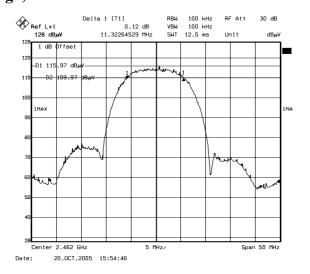
6dB Bandwidth (CH Low)



6dB Bandwidth (CH Mid)



6dB Bandwidth (CH High)



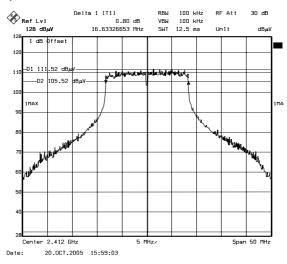


Compliance Certification Services Inc.
Report No: 50912401-RP1 FCC ID: JCC

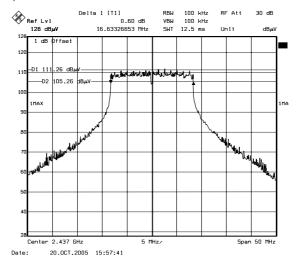
Date of Issue: Oct. 27, 2005

IEEE 802.11g mode

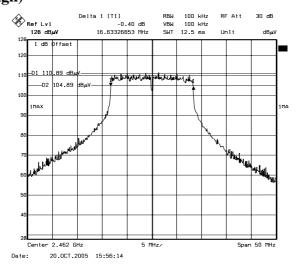
6dB Bandwidth (CH Low)



6dB Bandwidth (CH Mid)

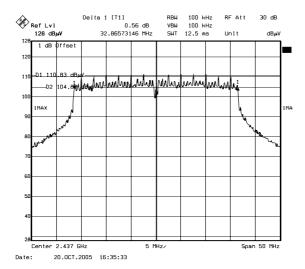


6dB Bandwidth (CH High)



IEEE 802.11 Turbo g mode

6dB Bandwidth (CH Mid.)



7.2 PEAK POWER

LIMIT

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

1. For systems using digital modulation in the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz: 1 watt.

Date of Issue: Oct. 27, 2005

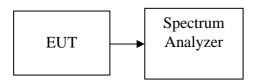
2. Except as shown in paragraphs (b)(3) (i), (ii) and (iii) of this section, if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Date of Calibration
SPECTRUM ANALYZER	R&S	FSEM	829054/017	Mar. 18, 2005

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

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

For Model: GN-BR02G

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Reading Power(dBm)	Factor (dB)	Output Power(dBm)	Output Power(W)	Limit(W)	Result
Low	2412	24.89	1	25.89	0.38815		PASS
Mid	2437	24.80	1	25.80	0.38019	1	PASS
High	2462	24.53	1	25.53	0.35727		PASS

Test mode: IEEE 802.11g

Channel	Frequency (MHz)	Reading Power(dBm)	Factor (dB)	Output Power(dBm)	Output Power(W)	Limit(W)	Result
Low	2412	22.81	1	23.81	0.24044		PASS
Mid	2437	22.31	1	23.31	0.21429	1	PASS
High	2462	22.42	1	23.42	0.21979		PASS

Test mode: IEEE 802.11Turbo g

Channel	Frequency (MHz)	Reading Power(dBm)	Factor (dB)	Output Power(dBm)	Output Power(W)	Limit(W)	Result
Low							
Mid	2437	20.46	1	21.46	0.13996	1	PASS
High							

Test Data

For Model: GN-AP02G

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Reading Power(dBm)	Factor (dB)	Output Power(dBm)	Output Power(W)	Limit(W)	Result
Low	2412	24.40	1	25.40	0.34674		PASS
Mid	2437	24.24	1	25.24	0.33420	1	PASS
High	2462	24.05	1	25.05	0.31989		PASS

Test mode: IEEE 802.11g

Channel	Frequency (MHz)	Reading Power(dBm)	Factor (dB)	Output Power(dBm)	Output Power(W)	Limit(W)	Result
Low	2412	24.17	1	25.17	0.32885		PASS
Mid	2437	24.24	1	25.24	0.33420	1	PASS
High	2462	23.91	1	24.91	0.30974		PASS

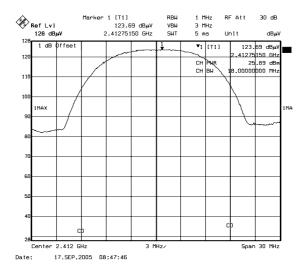
Test mode: IEEE 802.11Turbo g

Channel	Frequency (MHz)	Reading Power(dBm)	Factor (dB)	Output Power(dBm)	Output Power(W)	Limit(W)	Result
Low							
Mid	2437	23.44	1	24.44	0.27797	1	PASS
High							

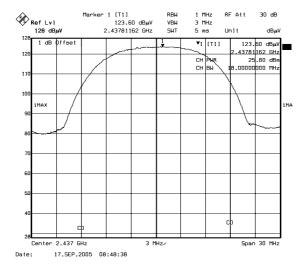
Test Plot For Model: GN-BR02G

IEEE 802.11b mode

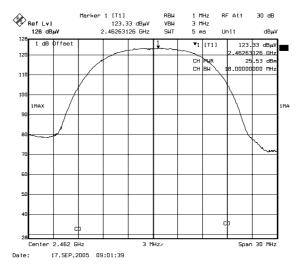
Peak power (CH Low)



Peak power (CH Mid)



Peak power (CH High)



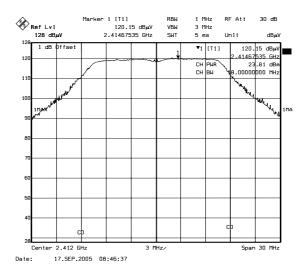


Compliance Certification Services Inc.
Report No: 50912401-RP1 FCC ID: JCC

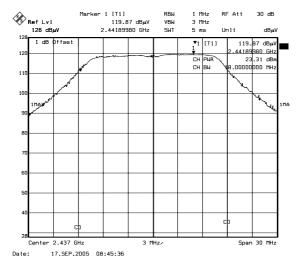
Date of Issue: Oct. 27, 2005

IEEE 802.11g mode

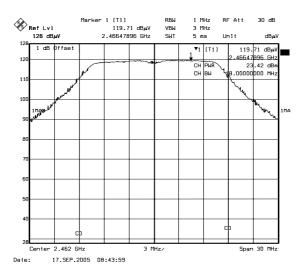
Peak power (CH Low)



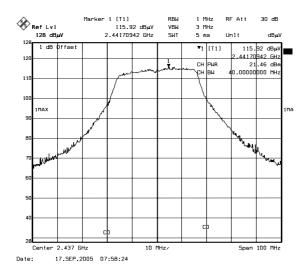
Peak power (CH Mid)



Peak power (CH High)



IEEE 802.11 Turbo g mode

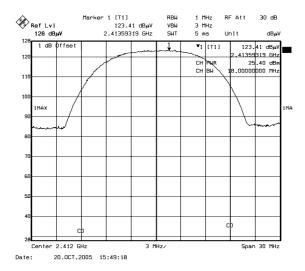




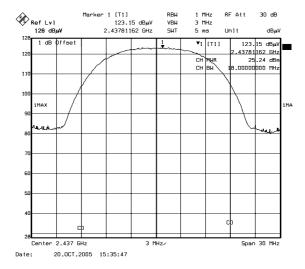
Test Plot For Model: GN-AP02G

IEEE 802.11b mode

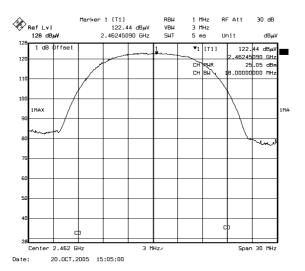
Peak power (CH Low)



Peak power (CH Mid)



Peak power (CH High)



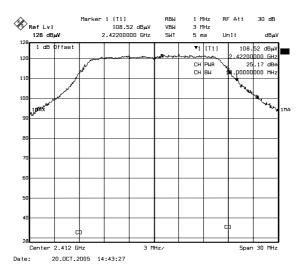


Compliance Certification Services Inc.
Report No: 50912401-RP1 FCC ID: JCC

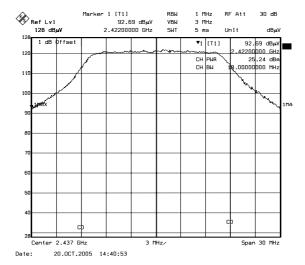
Date of Issue: Oct. 27, 2005

IEEE 802.11g mode

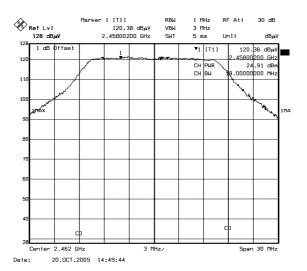
Peak power (CH Low)



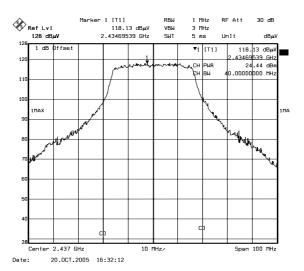
Peak power (CH Mid)



Peak power (CH High)



IEEE 802.11 Turbo g mode



7.3 BAND EDGES MEASUREMENT

LIMIT

According to §15.247(c), 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, 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 in15.209(a).

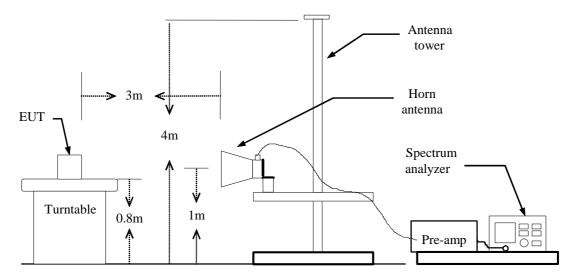
Date of Issue: Oct. 27, 2005

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Date of Calibration
SPECTRUM ANALYZER	R&S	FSEM	829054/017	Mar.18, 2005

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

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.

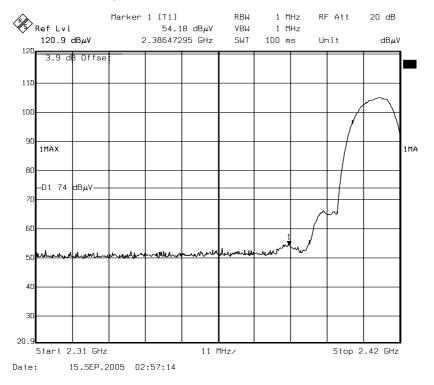
TEST RESULTS

Refer to attach spectrum analyzer data chart.

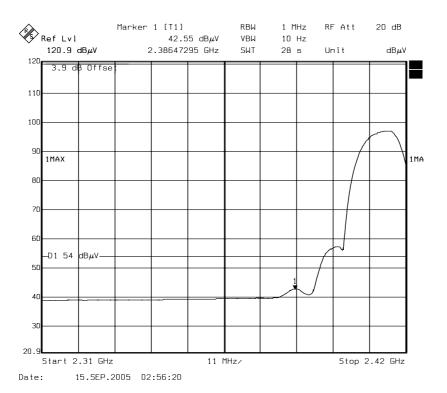
For Model: GN-BR02G

Band Edges (IEEE 802.11b mode / CH Low)

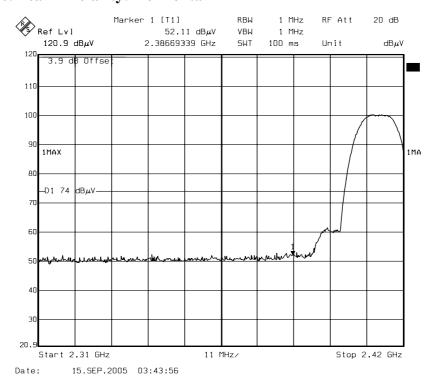
Detector mode: Peak Polarity: Vertical



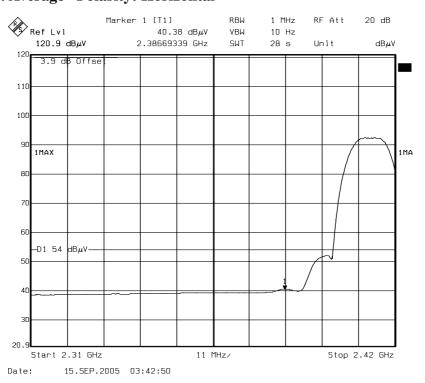
Detector mode: Average Polarity: Vertical



Detector mode: Peak Polarity: Horizontal



Detector mode: Average Polarity: Horizontal

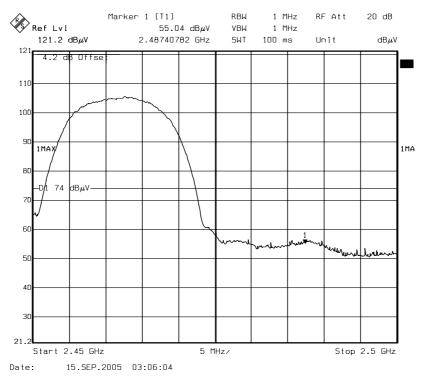




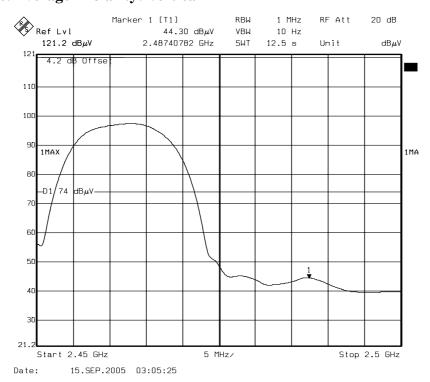
Date of Issue: Oct. 27, 2005

Band Edges (IEEE 802.11b mode / CH High)

Detector mode: Peak Polarity: Vertical



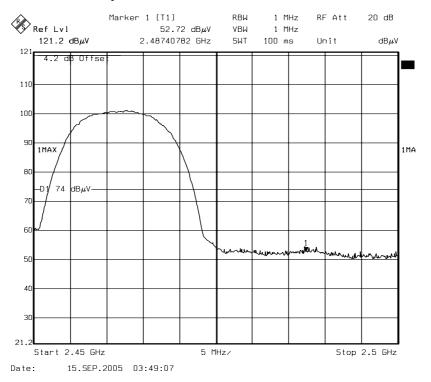
Detector mode: Average Polarity: Vertical



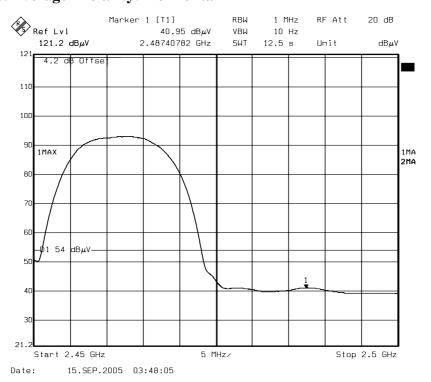


Date of Issue: Oct. 27, 2005

Detector mode: Peak Polarity: Horizontal



Detector mode: Average Polarity: Horizontal

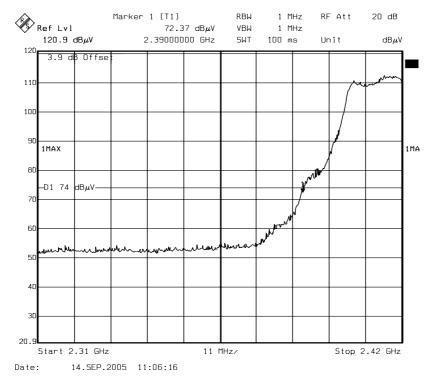




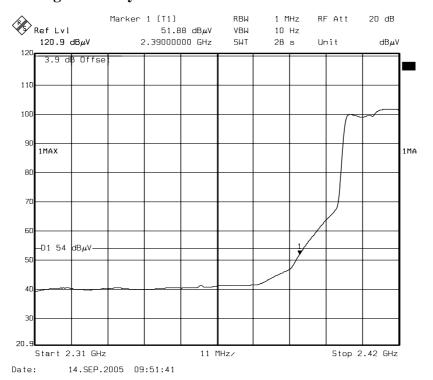
Date of Issue: Oct. 27, 2005

Band Edges (IEEE 802.11g mode / CH Low)

Detector mode: Peak Polarity: Vertical



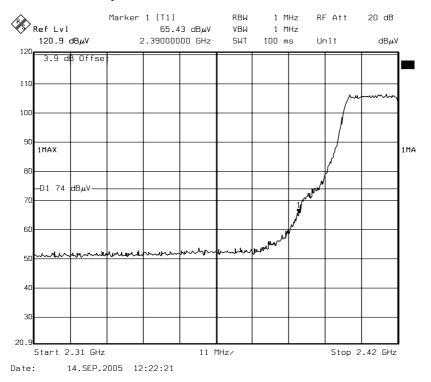
Detector mode: Average Polarity: Vertical



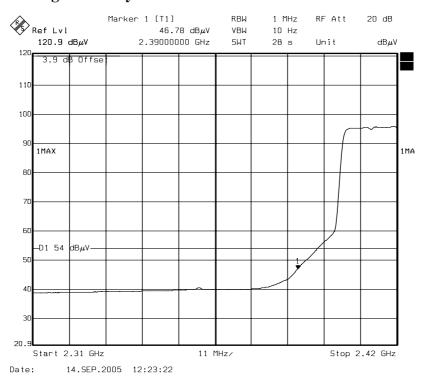


Date of Issue: Oct. 27, 2005

Detector mode: Peak Polarity: Horizontal



Detector mode: Average Polarity: Horizontal

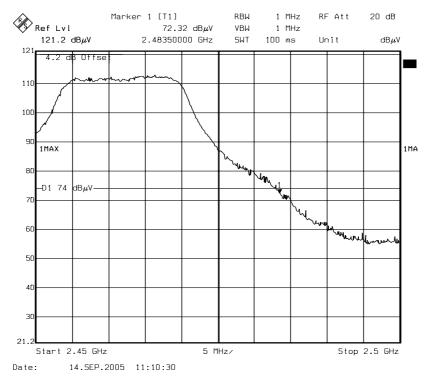




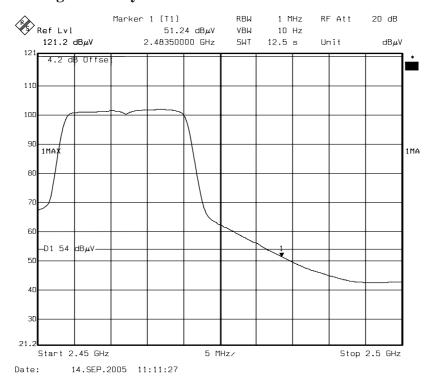
Date of Issue: Oct. 27, 2005

Band Edges (IEEE 802.11g mode / CH High)

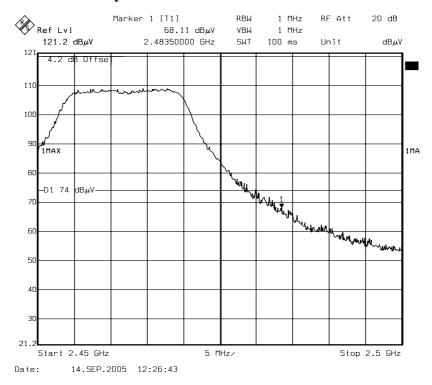
Detector mode: Peak Polarity: Vertical

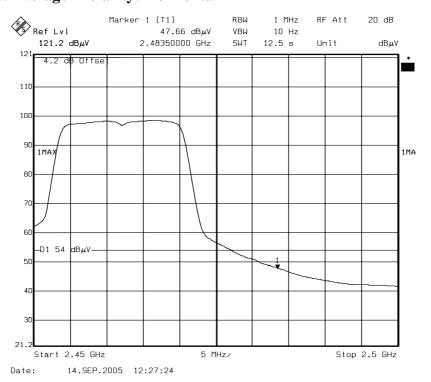


Detector mode: Average Polarity: Vertical



Detector mode: Peak Polarity: Horizontal



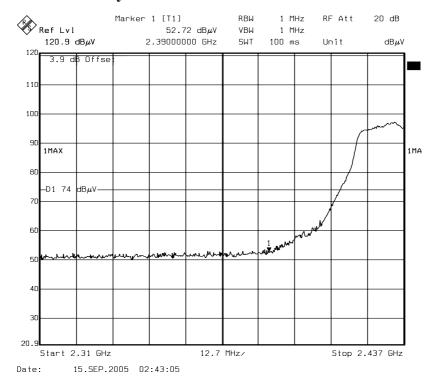


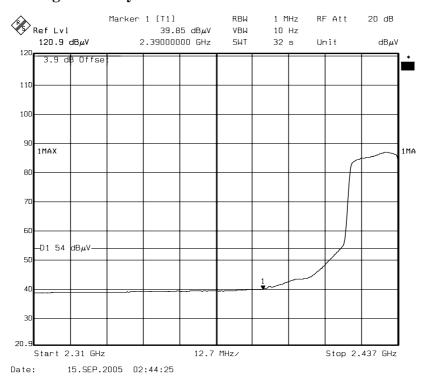


Date of Issue: Oct. 27, 2005

Band Edges (IEEE 802.11g Turbo mode / CH Low)

Detector mode: Peak Polarity: Vertical

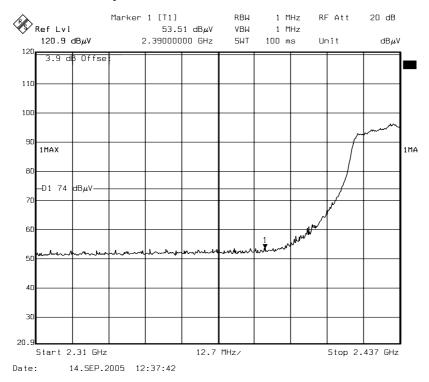


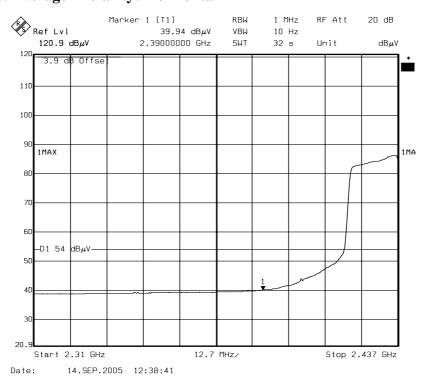




Date of Issue: Oct. 27, 2005

Detector mode: Peak Polarity: Horizontal



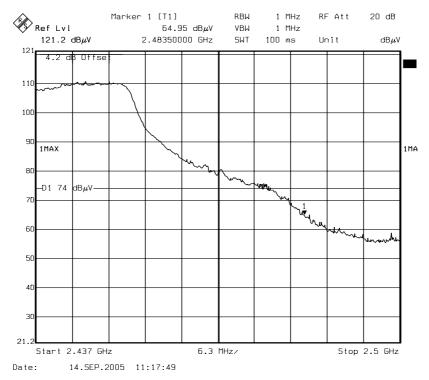


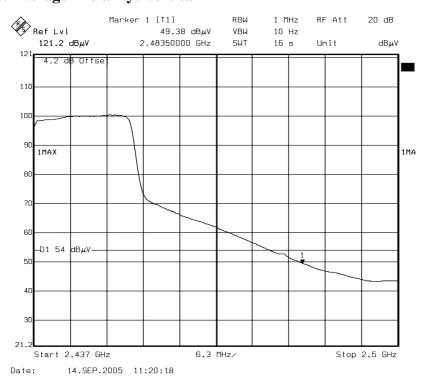


Date of Issue: Oct. 27, 2005

Band Edges (IEEE 802.11g Turbo mode / CH High)

Detector mode: Peak Polarity: Vertical

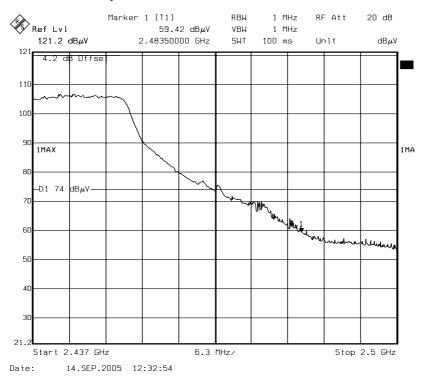


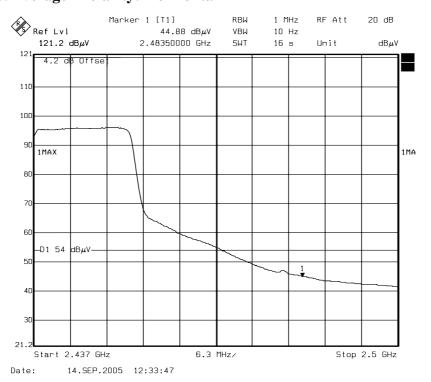




Report No: 50912401-RP1

Detector mode: Peak Polarity: Horizontal

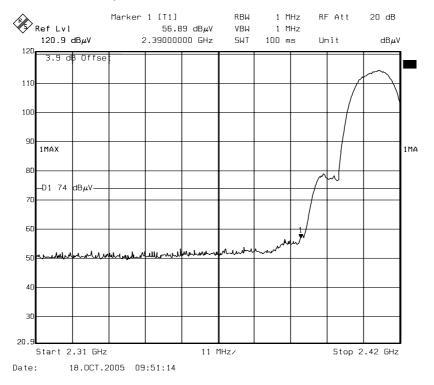


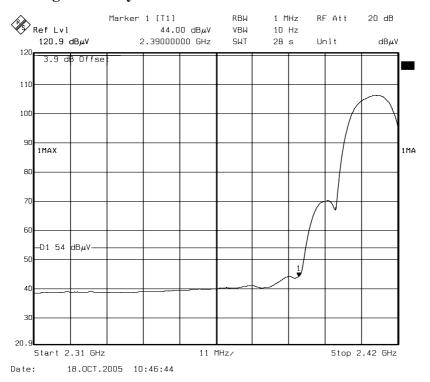


For Model: GN-AP02G

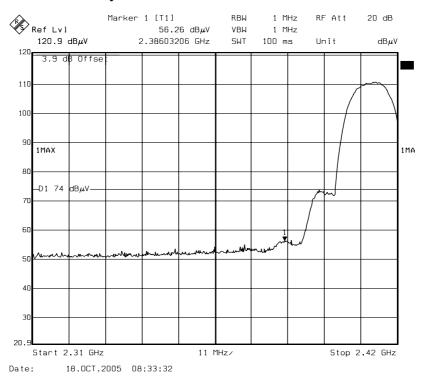
Band Edges (IEEE 802.11b mode / CH Low)

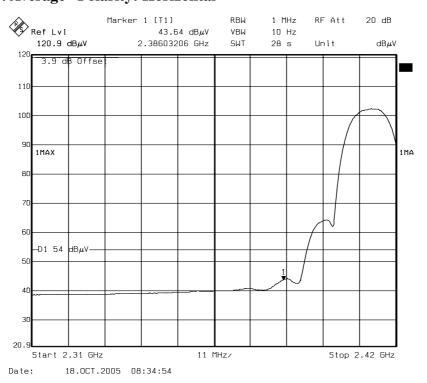
Detector mode: Peak Polarity: Vertical





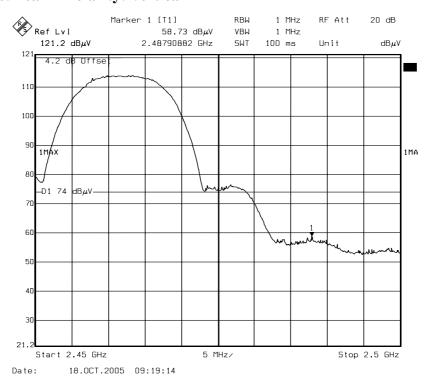
Detector mode: Peak Polarity: Horizontal

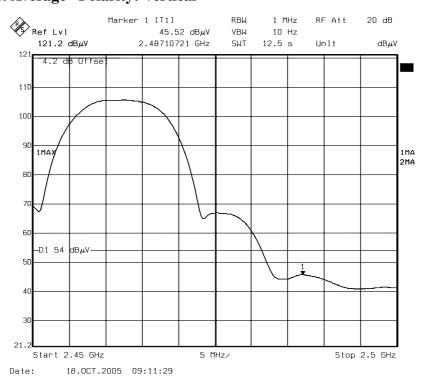




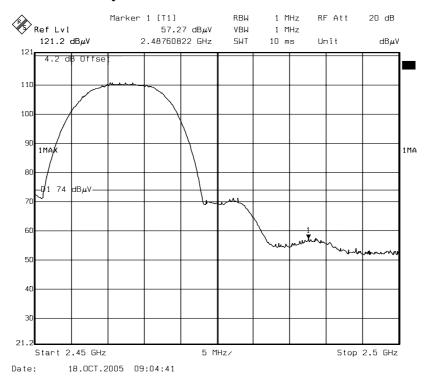
Band Edges (IEEE 802.11b mode / CH High)

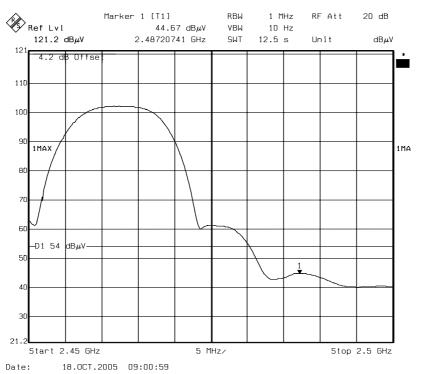
Detector mode: Peak Polarity: Vertical





Detector mode: Peak Polarity: Horizontal

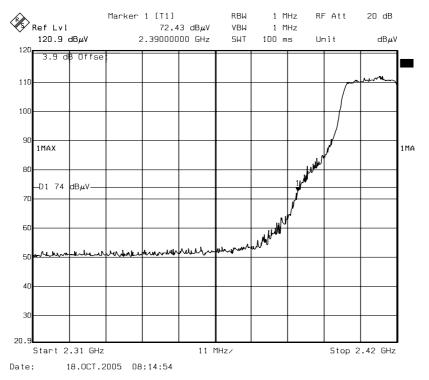


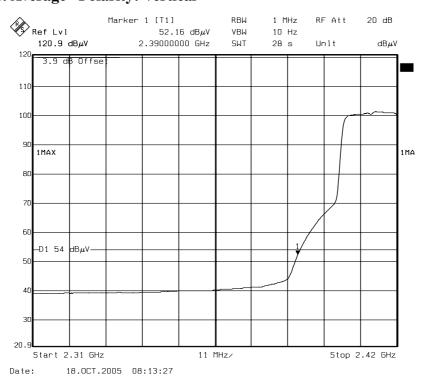




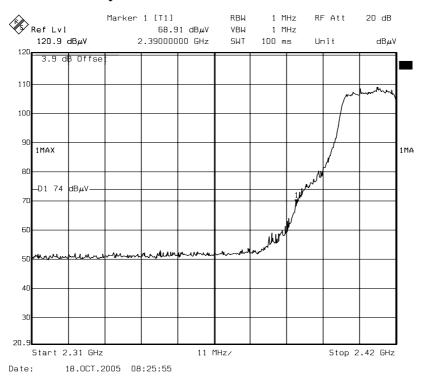
Band Edges (IEEE 802.11g mode / CH Low)

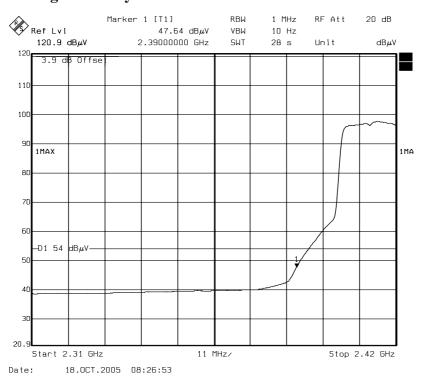
Detector mode: Peak Polarity: Vertical





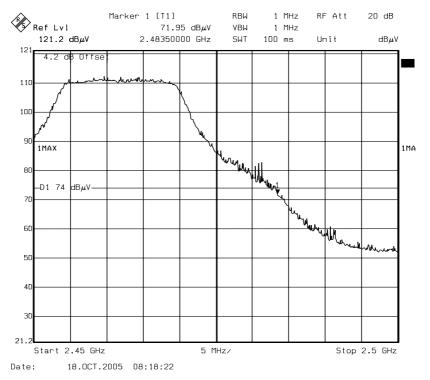
Detector mode: Peak Polarity: Horizontal

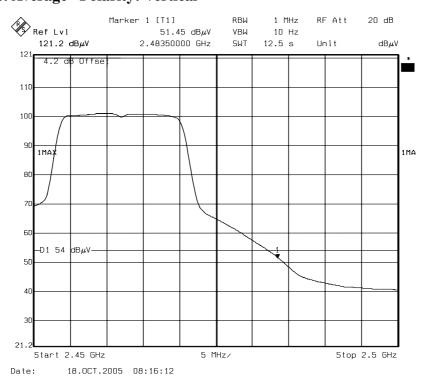




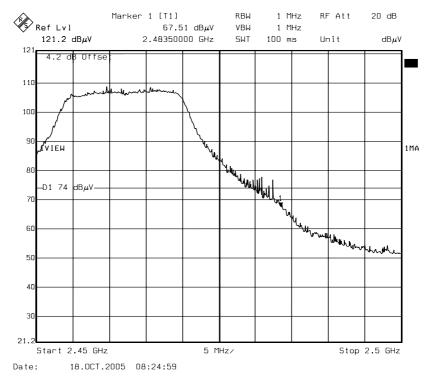
Band Edges (IEEE 802.11g mode / CH High)

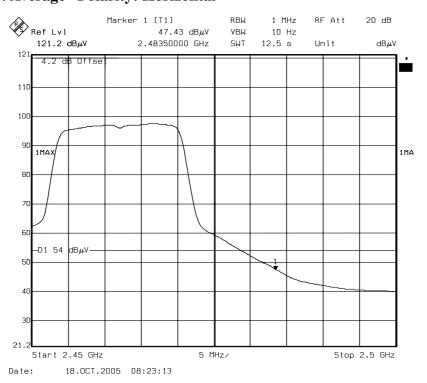
Detector mode: Peak Polarity: Vertical





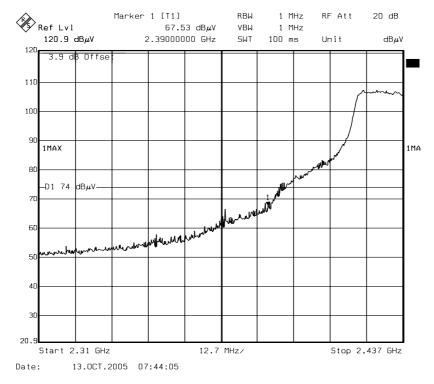
Detector mode: Peak Polarity: Horizontal

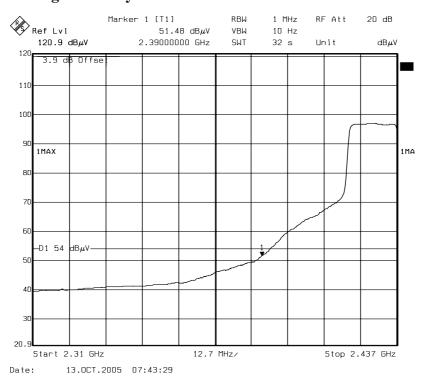




Band Edges (IEEE 802.11g Turbo mode / CH Low)

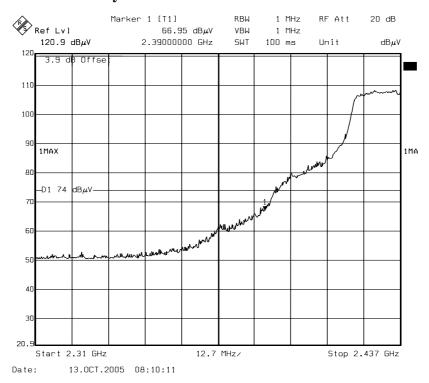
Detector mode: Peak Polarity: Vertical

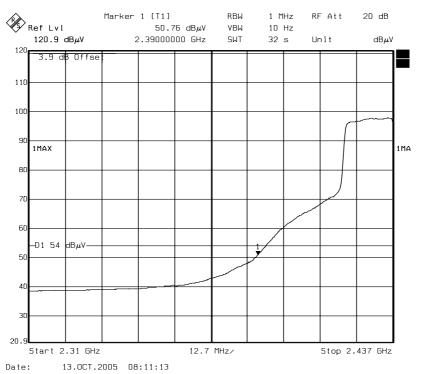






Detector mode: Peak Polarity: Horizontal

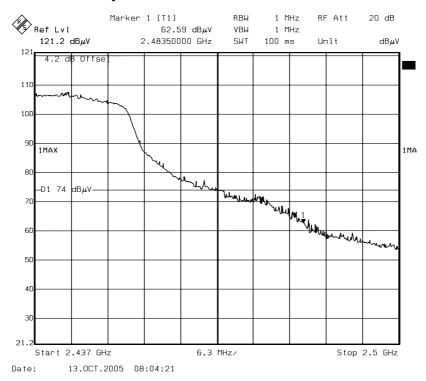


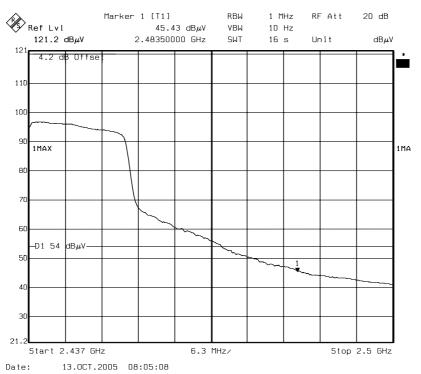




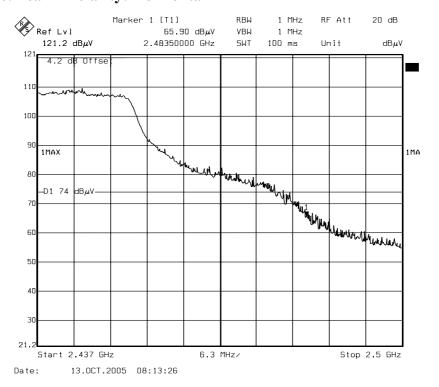
Band Edges (IEEE 802.11g Turbo mode / CH High)

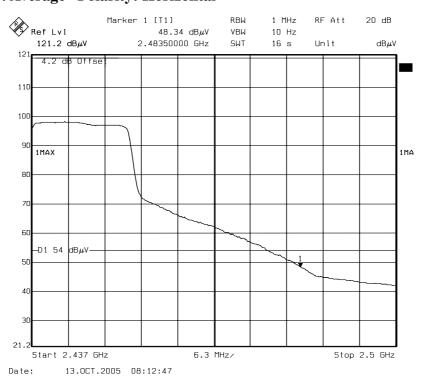
Detector mode: Peak Polarity: Vertical





Detector mode: Peak Polarity: Horizontal





7.4 PEAK POWER SPECTRAL DENSITY

LIMIT

1. For direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

Date of Issue: Oct. 27, 2005

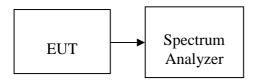
2. The direct sequence operating of the hybrid system, with the frequency hopping operation turned off, shall comply with the power density requirements of paragraph (d) of this section.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Date of Calibration
SPECTRUM ANALYZER	R&S	FSEM	829054/017	Mar. 18, 2005

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

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 = 3kHz, VBW = 10kHz, Span = 300kHz, Sweep=100s
- 3. Record the max. reading.
- 4. Repeat the above procedure until the measurements for all frequencies are completed.

TEST RESULTS

No non-compliance noted

Test Data

For Model: GN-BR02G

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Reading Power(dBm)	Factor (dB)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-4.25	1	-3.25		PASS
Mid	2437	-5.47	1	-4.47	8	PASS
High	2462	-7.06	1	-6.06		PASS

Test mode: IEEE 802.11g

Channel	Frequency (MHz)	Reading Power(dBm)	Factor (dB)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-11.38	1	-10.38		PASS
Mid	2437	-10.57	1	-9.57	8	PASS
High	2462	-11.33	1	-10.33		PASS

Test mode: IEEE 802.11Turbo g

Channel	Frequency (MHz)	Reading Power(dBm)	Factor (dB)	PPSD (dBm)	Limit (dBm)	Result
Low						
Mid	2437	-14.82	1	-13.82	8	PASS
High						

For Model: GN-AP02G

Test mode: IEEE 802.11b

Channel	Frequency (MHz)	Reading Power(dBm)	Factor (dB)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-7.57	1	-6.57		PASS
Mid	2437	-7.85	1	-6.85	8	PASS
High	2462	-6.70	1	-5.70		PASS

Test mode: IEEE 802.11g

Channel	Frequency (MHz)	Reading Power(dBm)	Factor (dB)	PPSD (dBm)	Limit (dBm)	Result
Low	2412	-10.32	1	-9.32		PASS
Mid	2437	-8.32	1	-7.32	8	PASS
High	2462	-10.81	1	-9.81		PASS

Test mode: IEEE 802.11Turbo g

Channel	Frequency (MHz)	Reading Power(dBm)	Factor (dB)	PPSD (dBm)	Limit (dBm)	Result
Low						
Mid	2437	-7.32	1	-6.32	8	PASS
High						



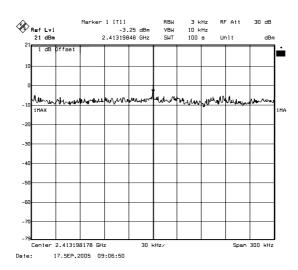
FCC ID: JCK-GN-BR02G

Test Plot For Model: GN-BR02G

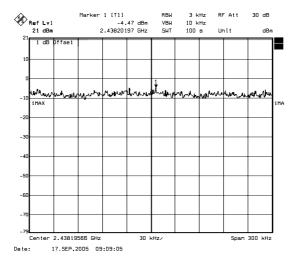
Test mode: IEEE 802.11b

IEEE 802.11b mode

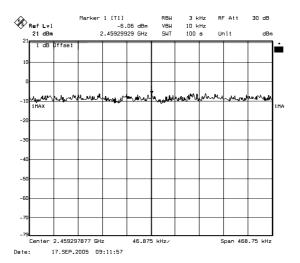
PPSD (CH Low)



PPSD (CH Mid)



PPSD (CH High)

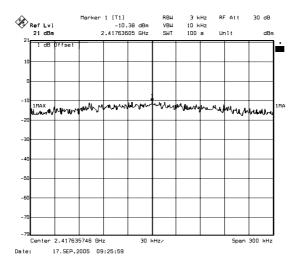


Compliance Certification Services Inc.Report No: 50912401-RP1FCC ID: JC

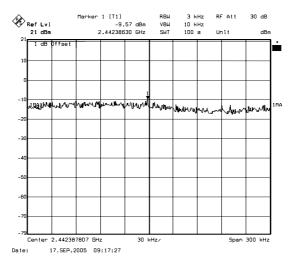
Date of Issue: Oct. 27, 2005

IEEE 802.11g mode

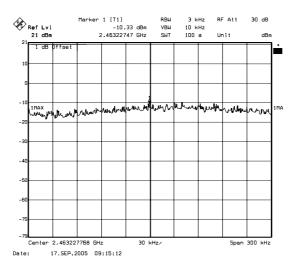
PPSD (CH Low)



PPSD (CH Mid)

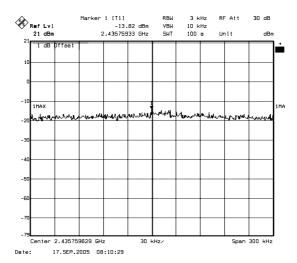


PPSD (CH High)



IEEE 802.11g Turbo mode

PPSD (CH Mid.)



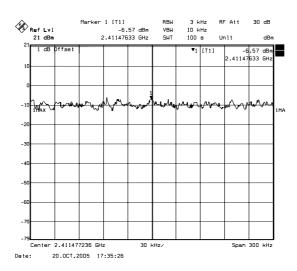
-BR02G Date of Issue: Oct. 27, 2005

Test Plot For Model: GN-AP02G

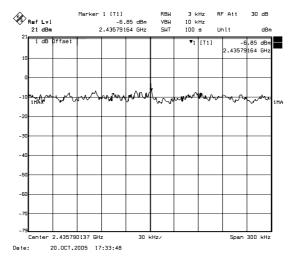
Test mode: IEEE 802.11b

IEEE 802.11b mode

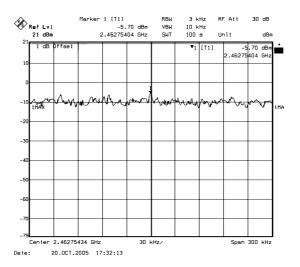
PPSD (CH Low)



PPSD (CH Mid)



PPSD (CH High)



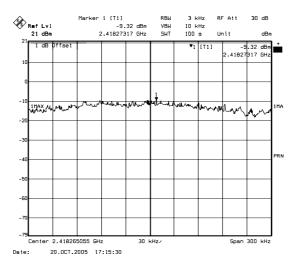


Compliance Certification Services Inc. Report No: 50912401-RP1

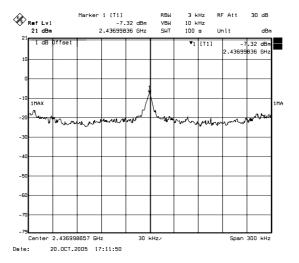
FCC ID: JCK-GN-BR02G Date of Issue: Oct. 27, 2005

IEEE 802.11g mode

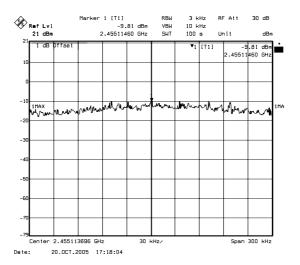
PPSD (CH Low)



PPSD (CH Mid)

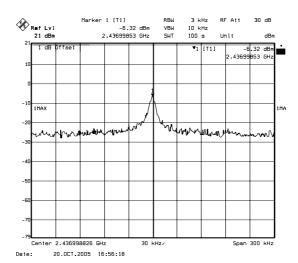


PPSD (CH High)



IEEE 802.11g Turbo mode

PPSD (CH Mid.)



7.5 RADIO FREQUENCY EXPOSURE

LIMIT

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 §15.247(i) and §1.1307(b)(1) of this chapter.

Date of Issue: Oct. 27, 2005

EUT Specification

EUT	Wireless Game Adapter			
Frequency band (Operating)	☐ WLAN: 5.18GHz ~ 5.32GHz / 5.50GHz ~ 5.70GHz			
rrequency band (Operating)	☐ WLAN: 5.745GHz ~ 5.825GHz			
	Others			
	Portable (<20cm separation)			
Device category	Mobile (>20cm separation)			
	Others			
	Occupational/Controlled exposure ($S = 5 \text{mW/cm2}$)			
Exposure classification	☐ General Population/Uncontrolled exposure			
	(S=1 mW/cm2)			
	Single antenna			
	Multiple antennas			
Antenna diversity	☐ Tx diversity			
	Rx diversity			
	☐ Tx/Rx diversity			
May output name	GN-BR02G: 25.89 dBm (388.150mW)			
Max. output power	GN-AP02G: 25.40 dBm(346.737mW)			
Antenna gain (Max)	4.5 dBi (Numeric gain: 3.162)			
Evaluation applied	MPE Evaluation			
Evaluation applied	SAR Evaluation			
Remark:				
1. The maximum output power (f	from the model: GN-BR02G) is <u>25.89 dBm (388.150mW)</u> at			
<u>2412MHz</u> (with 3.162 <u>numeri</u>	<u>c antenna gain</u> .)			
2. The maximum output power (f	from the model: GN-AP02G) is <u>25.40 dBm (346.737mW)</u> at			
<u>2412MHz</u> (with 3.162 <u>numeri</u>	<u>c antenna gain.)</u>			
3. DTS device is not subject to re	outine RF evaluation; MPE estimate is used to justify the			
compliance.				
4. For mobile or fixed location to	ransmitters, no SAR consideration applied. The minimum			
separation generally be used i	is at least 20 cm, even if the calculations indicate that the MPE			
distance would be lesser.				

TEST RESULTS

No non-compliance noted.

Calculation

Given

$$E = \sqrt{\frac{30 \times P \times G}{d}} \quad \& \quad S = \frac{E^2}{3770}$$

Where E = Field Strength in Volts / meter

P = Power in Watts

G=Numeric antenna gain

d=*Distance in meters*

S=Power Density in milliwatts / square centimeter

Date of Issue: Oct. 27, 2005

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$d = \sqrt{\frac{30 \times P \times G}{3770 \times S}}$$

Changing to units of mW and cm, using:

$$P(mW) = P(W) / 1000$$
 and

$$d(cm) = 100 * d(m)$$

Yields

$$d = 100 \times \sqrt{\frac{30 \times (P/1000) \times G}{3770 \times S}} = 0.282 \times \sqrt{\frac{P \times G}{S}}$$

Where d = distance in cm

P = Power in mW

G = Numeric antenna gain

 $S = Power Density in mW/cm^2$

Substituting the logarithmic form of power and gain using:

$$P(mW) = 10 \land (P(dBm) / 10)$$
 and

$$G(numeric) = 10 \land (G(dBi) / 10)$$

Yields

$$d = 0.282 \times \frac{10^{(P+G)/20}}{\sqrt{20}}$$

Equation 1

Where

d = MPE safe distance in cm

P = Power in dBm

G = Antenna Gain in dBi

 $S = Power Density Limit in mW/cm^2$

Maximum Permissible Exposure (2.4 GHz Band)

For model: GN-BR02G

EUT output power = 388.150mW

Antenna Gain = 3.162 (Numeric gain)

 $S = 1.0 \text{ mW} / \text{cm}^2 \text{ from } 1.1310 \text{ Table } 1$

Substituting these parameters into the above Equation 1:

→ MPE Safe Distance =9.9760cm

(For mobile or fixed location transmitters, the minimum separation distance is 20 cm, even if calculations indicate that the MPE distance would be less.)

Date of Issue: Oct. 27, 2005

For model: GN-AP02G

EUT output power =346.737mW

Antenna Gain = 3.162 (Numeric gain)

 $S = 1.0 \text{ mW} / \text{cm}^2 \text{ from } 1.1310 \text{ Table } 1$

Substituting these parameters into the above Equation 1:

→ MPE Safe Distance =9.4289 cm

(For mobile or fixed location transmitters, the minimum separation distance is 20 cm, even if calculations indicate that the MPE distance would be less.)

7.6 SPURIOUS EMISSIONS

7.6.1 CONDUCTED MEASUREMENT

LIMIT

In any 100 kHz 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, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, 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) (see Section 15.205(c)).

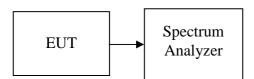
Date of Issue: Oct. 27, 2005

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
SPECTRUM ANALYZER	R&S	FSEM	829054/017	Mar. 18, 2005

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

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 100 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

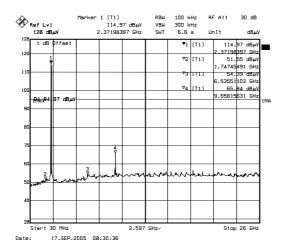
FCC ID: JCK-GN-BR02G

Date of Issue: Oct. 27, 2005

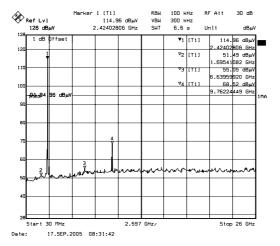
Test Plot For Model: GN-BR02G

IEEE 802.11b mode

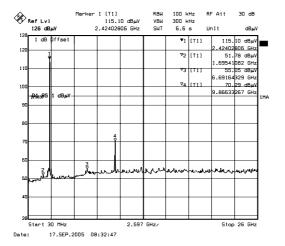
CH Low



CH Mid



CH High

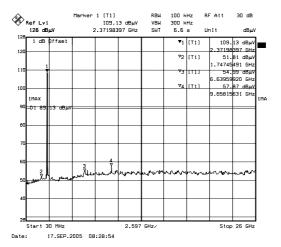




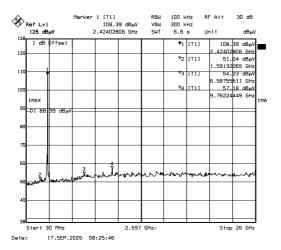
Report No: 50912401-RP1 FCC ID: JCK-GN-BR02G

IEEE 802.11g mode

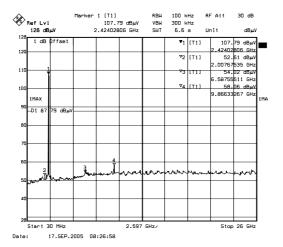
CH Low



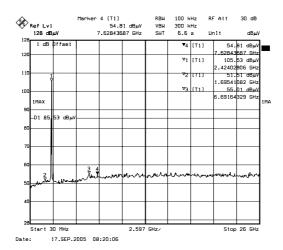
CH Mid



CH High



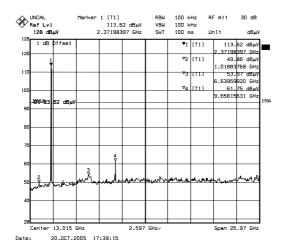
IEEE 802.11g Turbo mode



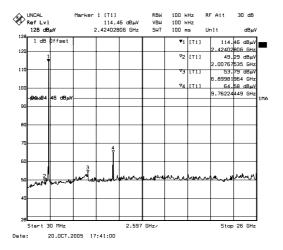
Test Plot For Model: GN-AP02G

IEEE 802.11b mode

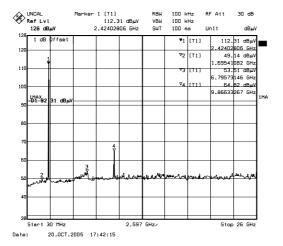
CH Low



CH Mid



CH High

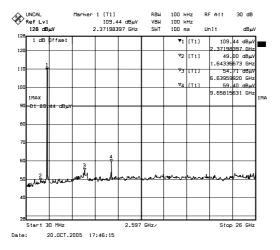




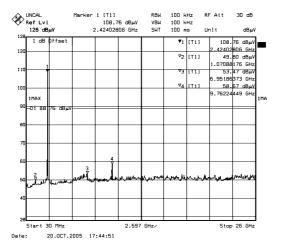
Date of Issue: Oct. 27, 2005

IEEE 802.11g mode

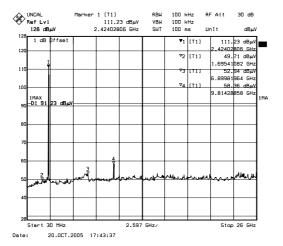
CH Low



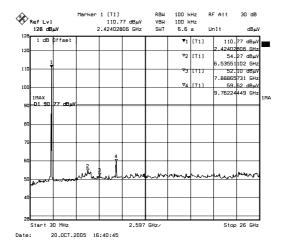
CH Mid



CH High



IEEE 802.11g Turbo mode



7.6.2 RADIATED EMISSIONS

LIMIT

1. 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:

Date of Issue: Oct. 27, 2005

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

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

Frequency (Hz)	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



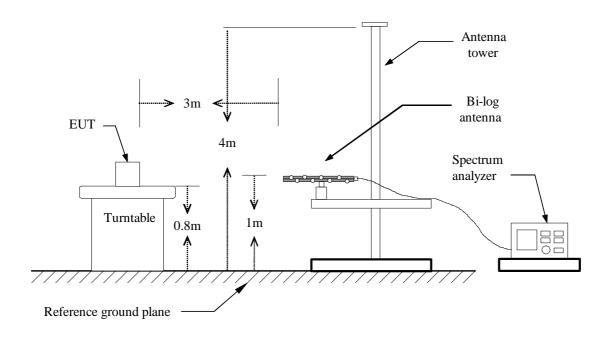
MEASUREMENT EQUIPMENT USED

	Ope	n Area Test Site #	6	
Name of Equipment	Manufacturer	Model	Serial Number	Date of Calibration
O.A.T.S			No.6	SEP. 12, 2005
EMI RECEIVER	R&S	ESVS10	833206/012	FEB. 24, 2005
Spectrum Analyzer	R&S	FSEM	829054/017	MAR. 18, 2005
BI-LOG ANTENNA	CHASE	CBL6112B	2563	FEB. 16, 2005
Horn Antenna	Com-Power	AH-118	071033	AUG. 30, 2005
18G Cable	SMA	SUCOFLEX104(1M)	001	MAR. 22, 2005
Pre-Amplifier	HP	8447F	2727A02227	MAR. 03, 2005
Signal Generator	HP	8673C	2938A00663	FEB. 02, 2005
RF SWITCH		ERS-180A		JAN. 31, 2005
POWER METER	IFR	8541C	1835448	APR. 07, 2005

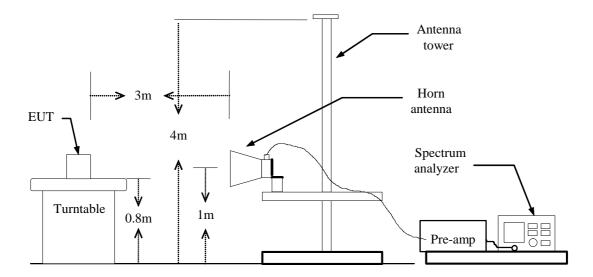
Remark: Each piece of equipment is scheduled for calibration once a year.

Test Configuration

Below 1 GHz



Above 1 GHz



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.
- 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:

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.

TEST RESULTS

For Model: GN-BR02G

Below 1 GHz

Operation Mode: GN-BR02G Test Date: Sept. 18, 2005
Temperature: 31.2°C Tested by: Jerry Chang

Humidity: 68% RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

Freq- Uency	Meter Reading at 3 m(dB \(\mu \) V/M)	Antenna Factor	Cable Loss	Limits	Emission Level at 3 m(dB \(\psi \) V/M)	Detector Mode	Margin
(MHz)	Horizontal	(dB)	(dB)	(dB µ V/M)	Horizontal	PK/QP	(dB)
149.99	14.16	10.97	1.20	43.50	26.33	QP	-17.17
249.98	16.32	13.73	1.50	46.00	31.55	QP	-14.45
275.99	25.50	13.73	1.55	46.00	40.78	QP	-5.22
368.01	15.63	14.16	2.08	46.00	31.87	QP	-14.13
375.05	18.24	14.20	2.13	46.00	34.58	QP	-11.42
552.01	10.63	18.21	2.78	46.00	31.62	QP	-14.38
600.01	9.80	18.75	2.95	46.00	31.50	QP	-14.50

Freq-	Meter Reading	Antenna	Cable	Limits	Emission Level	Detector	Margin
Uency	at 3 m(dB μ V/M)	Factor	Loss	Zimits	at 3 m(dB \(\mu \) V/M)	Mode	1,141,8111
(MHz)	Vertical	(dB)	(dB)	(dB µ V/M)	Vertical	PK/QP	(dB)
150.03	11.53	10.97	1.20	43.50	23.70	QP	-19.80
250.03	15.35	13.73	1.50	46.00	30.58	QP	-15.42
276.01	26.24	13.73	1.55	46.00	41.52	QP	-4.48
368.00	15.87	14.16	2.08	46.00	32.11	QP	-13.89
551.86	12.25	18.21	2.78	46.00	33.24	QP	-12.76
800.01	13.47	21.13	3.50	46.00	38.10	QP	-7.90

- 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 detector mode.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

Above 1 GHz

Operation Mode: TX / IEEE 802.11b mode / CH Low **Test Date:** Sept. 14, 2005

Temperature: 31.3°C **Tested by:** Jerry Chang

Humidity: 67 % RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

	TX / IEE	EE 802.11	b mode /	CH Low	Measur	ement Di	istance at 3	3m Hoi	rizontal p	olarity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
	2410.44	93.30	29.82	6.00	31.86	0.00	97.26	Fundan	nental	P
	2410.44	86.75	29.82	6.00	31.86	0.00	90.71	Freque	ency	A
*	4823.75	40.22	33.65	8.29	32.80	0.69	50.05	74.00	-23.95	P
*	4823.75	29.21	33.65	8.29	32.80	0.69	39.04	54.00	-14.96	A
	N/A									P
	N/A									A

	TX / IEE	EE 802.11	b mode /	CH Low	Measu	ırement I	Distance at	3m Vo	ertical pol	larity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
	2414.07	101.92	29.83	6.01	31.86	0.00	105.89	Fundan	nental	P
	2414.07	95.68	29.83	6.01	31.86	0.00	99.65	Freque	ency	A
*	4824.26	41.63	33.65	8.29	32.80	0.69	51.47	74.00	-22.53	P
*	4824.26	30.18	33.65	8.29	32.80	0.69	40.02	54.00	-13.98	A
	N/A									P
	N/A									A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

Operation Mode: TX / IEEE 802.11b mode / CH Mid Test Date: Sept. 14, 2005

Temperature: 31.3°C **Tested by:** Jerry Chang

Humidity: 67 % RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

	TX / IEE	EE 802.11	b mode /	CH Mid	Measur	ement Di	istance at 3	3m H	orizontal	polarity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$\left(dB\mu V/m\right)$	(dB)	(P/Q/A)
	2439.25	93.43	29.88	6.04	31.86	0.00	97.49	Funda	mental	P
	2439.25	86.98	29.88	6.04	31.86	0.00	91.04	Frequ	iency	A
*	4873.74	40.33	33.75	8.34	32.81	0.71	50.32	74.00	-23.68	P
*	4873.74	29.87	33.75	8.34	32.81	0.71	39.86	54.00	-14.14	A
	N/A									P
	N/A									A

	TX / IEI	EE 802.11	b mode /	CH Mid	Measu	Measurement Distance at 3m Vertical pe				
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$\left(dB\mu V/m\right)$	(dB)	(P/Q/A)
	2434.84	101.46	29.87	6.03	31.86	0.00	105.50	Funda	mental	P
	2434.84	94.87	29.87	6.03	31.86	0.00	98.91	Frequ	iency	A
*	4874.86	42.57	33.75	8.34	32.81	0.71	52.56	74.00	-21.44	P
*	4874.86	31.05	33.75	8.34	32.81	0.71	41.04	54.00	-12.96	A
	N/A									P
	N/A									A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

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

Temperature: 31.3°C **Tested by:** Jerry Chang

Humidity: 67 % RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

	TX / IEE	EE 802.11	b mode /	CH High	Measur	ement Di	istance at 3	3m H	orizontal	polarity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
	2462.75	94.01	29.93	6.07	31.85	0.00	98.15	Funda	mental	P
	2463.33	87.40	29.93	6.07	31.85	0.00	91.54	Frequ	iency	A
*	4924.32	40.56	33.85	8.39	32.83	0.73	50.70	74.00	-23.30	P
*	4924.32	28.67	33.85	8.39	32.83	0.73	38.81	54.00	-15.19	A
	N/A									P
	N/A									A

	TX / IEE	EE 802.11	b mode /	CH High	Measu	irement I	Distance at	3m '	Vertical p	olarity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
	2462.65	101.03	29.93	6.07	31.85	0.00	105.17	Funda	mental	P
	2462.65	94.48	29.93	6.07	31.85	0.00	98.62	Frequ	iency	A
*	4924.33	41.68	33.85	8.39	32.83	0.73	51.82	74.00	-22.18	P
*	4924.33	30.25	33.85	8.39	32.83	0.73	40.39	54.00	-13.61	A
	N/A									P
	N/A									A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

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

Temperature: 31.3°C **Tested by:** Jerry Chang

Humidity: 67 % RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

	TX / IEE	EE 802.11	g mode /	CH Low	Measur	ement Di	istance at 3	3m H	orizontal	polarity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$\left(dB\mu V/m\right)$	(dB)	(P/Q/A)
	2417.08	89.29	29.83	6.01	31.86	0.00	93.27	Funda	mental	P
	2417.08	80.72	29.83	6.01	31.86	0.00	84.70	Frequ	iency	A
*	4824.53	38.47	33.65	8.29	32.80	0.69	48.31	74.00	-25.69	P
*	4824.53	28.63	33.65	8.29	32.80	0.69	38.47	54.00	-15.53	A
	N/A									P
	N/A									A

	TX / IEE	EE 802.11	g mode /	CH Low	Measu	irement I	Distance at	t 3m	Vertical p	olarity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$\left(dB\mu V/m\right)$	(dB)	(P/Q/A)
	2414.05	97.78	29.83	6.01	31.86	0.00	101.75	Funda	mental	P
	2414.05	89.33	29.83	6.01	31.86	0.00	93.30	Frequ	iency	A
*	4823.88	39.68	33.65	8.29	32.80	0.69	49.51	74.00	-24.49	P
*	4823.88	30.07	33.65	8.29	32.80	0.69	39.90	54.00	-14.10	A
	N/A									P
	N/A									A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

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

Temperature: 31.3°C **Tested by:** Jerry Chang

Humidity: 67 % RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

	TX / IEI	EE 802.11	g mode /	CH Mid	Measurement Distance at 3m Horizontal pola						
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Limit Margin		
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$\left(dB\mu V/m\right)$	(dB)	(P/Q/A)	
	2439.55	89.87	29.88	6.04	31.86	0.00	93.93	Funda	mental	P	
	2439.55	80.82	29.88	6.04	31.86	0.00	84.88	Frequ	iency	A	
*	4874.45	40.16	33.75	8.34	32.81	0.71	50.15	74.00	-23.85	P	
*	4874.45	30.26	33.75	8.34	32.81	0.71	40.25	54.00	-13.75	A	
	N/A									P	
	N/A									A	

	TX / IEI	EE 802.11	g mode /	CH Mid	Measu	irement I	Distance at	3m '	Vertical p	olarity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
	2433.64	98.46	29.87	6.03	31.86	0.00	102.50	Funda	mental	P
	2433.64	90.08	29.87	6.03	31.86	0.00	94.12	Frequ	iency	A
*	4874.33	41.22	33.75	8.34	32.81	0.71	51.21	74.00	-22.79	P
*	4874.33	31.26	33.75	8.34	32.81	0.71	41.25	54.00	-12.75	A
	N/A									P
	N/A									A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

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

Temperature: 31.3°C **Tested by:** Jerry Chang

Humidity: 67 % RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

	TX / IEE	EE 802.11	g mode / (CH High	Measur	ement Di	istance at 3	3m H	orizontal	polarity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$\left(dB\mu V/m\right)$	(dB)	(P/Q/A)
	2463.45	90.63	29.93	6.07	31.85	0.00	94.77	Funda	mental	P
	2463.45	81.85	29.93	6.07	31.85	0.00	85.99	Frequ	iency	A
*	4923.76	40.63	33.85	8.39	32.83	0.73	50.77	74.00	-23.23	P
*	4923.76	31.11	33.85	8.39	32.83	0.73	41.25	54.00	-12.75	A
	N/A									P
	N/A									A

	TX / IEE	EE 802.11	g mode / (CH High	Measu	irement I	Distance at	t 3m	Vertical p	olarity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$\left(dB\mu V/m\right)$	(dB)	(P/Q/A)
	2464.45	98.43	29.93	6.07	31.85	0.00	102.57	Funda	mental	P
	2464.45	89.75	29.93	6.07	31.85	0.00	93.89	Frequ	iency	A
*	4924.63	41.69	33.85	8.39	32.83	0.73	51.83	74.00	-22.17	P
*	4924.63	30.78	33.85	8.39	32.83	0.73	40.92	54.00	-13.08	A
	N/A									P
	N/A									A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

Operation Mode: TX / IEEE 802.11g Turbo mode **Test Date:** Sept. 14, 2005

Temperature: 31.3°C **Tested by:** Jerry Chang

Humidity: 67 % RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

	TX / IEEE	E 802.11g T	urbo mode	/ CH High	Measur	orizontal	polarity			
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
	2448.62	86.79	29.90	6.05	31.86	0.00	90.88	Funda	mental	P
	2448.62	78.79	29.90	6.05	31.86	0.00	82.88	Frequ	iency	A
*	4874.63	40.18	33.75	8.34	32.81	0.71	50.17	74.00	-23.83	P
*	4874.63	30.56	33.75	8.34	32.81	0.71	40.55	54.00	-13.45	A
	N/A									P
	N/A									A

	TX / IEEE	E 802.11g T	urbo mode	/ CH High	Measu	irement I	Distance at	t 3m	Vertical p	olarity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
	2447.82	96.61	29.90	6.05	31.86	0.00	100.70	Funda	mental	P
	2447.82	88.20	29.90	6.05	31.86	0.00	92.29	Frequ	iency	A
*	4874.63	41.26	33.75	8.34	32.81	0.71	51.25	74.00	-22.75	P
*	4874.63	31.23	33.75	8.34	32.81	0.71	41.22	54.00	-12.78	A
	N/A									P
	N/A									A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

Operation Mode: RX / IEEE 802.11b mode / CH Low **Test Date:** Sept. 15, 2005

Temperature: 28.6°C **Tested by:** Jerry Chang

Humidity: 56 % RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

RX / IEE	EE 802.11	b mode /	CH Low	Meas	uremen	t Distance	at 3m	Horizontal polarity		
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark	
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)	
3215.87	41.68	30.43	6.85	32.14	1.26	48.07	74	-25.93	P	
3215.87	31.02	30.43	6.85	32.14	1.26	37.41	54	-16.59	A	
N/A									P	
N/A									A	

RX / IEE	EE 802.11	b mode /	CH Low	Mea	sureme	nt Distanc	e at 3m	Vertical polarity		
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark	
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$\left(dB\mu V/m\right)$	$(dB\mu V/m)$	(dB)	(P/Q/A)	
3215.92	42.87	30.43	6.85	32.14	1.26	49.26	74	-24.74	P	
3215.92	32.56	30.43	6.85	32.14	1.26	38.95	54	-15.05	A	
N/A									P	
N/A									A	

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

Operation Mode: RX / IEEE 802.11b mode / CH Mid **Test Date:** Sept. 15, 2005

Temperature: 28.6°C **Tested by:** Jerry Chang

Humidity: 56 % RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

RX / IEI	EE 802.11	b mode /	CH Mid	Measi	uremen	t Distance	at 3m	Horizontal polarity		
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark	
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)	
3248.66	40.57	30.50	6.87	32.17	1.22	46.99	74	-27.01	P	
3248.66	31.22	30.50	6.87	32.17	1.22	37.64	54	-16.36	A	
N/A									P	
N/A									A	

RX / IEI	EE 802.11	b mode /	CH Mid	Mea	sureme	e at 3m	Vertical polarity		
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
3249.25	41.78	30.50	6.87	32.17	1.22	48.20	74	-25.80	P
3249.25	32.06	30.50	6.87	32.17	1.22	38.48	54	-15.52	A
N/A									P
N/A									A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto
- 5. Remark " *" means the Restricted band.

Operation Mode: RX / IEEE 802.11b mode / CH High **Test Date:** Sept. 15, 2005

Temperature: 28.6°C **Tested by:** Jerry Chang

Humidity: 56 % RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

RX / IEE	E 802.11	b mode /	CH High	Meas	suremen	t Distance	at 3m	Horizontal polarity		
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark	
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$\left(dB\mu V/m\right)$	$(dB\mu V/m)$	(dB)	(P/Q/A)	
3282.77	41.23	30.57	6.90	32.19	1.17	47.68	74	-26.32	P	
3282.77	31.44	30.57	6.90	32.19	1.17	37.89	54	-16.11	A	
									P	
N/A									A	

RX / IEE	E 802.11	b mode /	CH High	Me	asureme	nt Distanc	ce at 3m	Vertical polarity		
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark	
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$\left(dB\mu V/m\right)$	(dB)	(P/Q/A)	
3282.65	42.65	30.57	6.90	32.19	1.17	49.10	74	-24.90	P	
3282.65	32.56	30.57	6.90	32.19	1.17	39.01	54	-14.99	A	
N/A									P	
N/A									A	

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

Operation Mode: RX / IEEE 802.11g mode / CH Low **Test Date:** Setp. 15, 2005

Temperature: 28.6°C **Tested by:** Jerry Chang

Humidity: 56 % RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

RX / IEE	EE 802.11	g mode /	CH Low	Meas	Measurement Distance at 3m Horizontal pola				
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
3215.42	40.58	30.43	6.85	32.14	1.26	46.97	74	-27.03	P
3215.42	29.68	30.43	6.85	32.14	1.26	36.07	54	-17.93	A
N/A									P
N/A									A

RX / IEE	RX / IEEE 802.11g mode / CH Low				surement	at 3m	Vertical polarity		
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
3216.08	41.36	30.43	6.85	32.14	1.26	47.75	74	-26.25	P
3216.08	31.22	30.43	6.85	32.14	1.26	37.61	54	-16.39	A
N/A									P
N/A									A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

Operation Mode: RX / IEEE 802.11g mode / CH Mid **Test Date:** Setp. 15, 2005

Temperature: 28.6°C **Tested by:** Jerry Chang

Humidity: 56 % RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

RX / IEE	EE 802.11	g mode /	CH Mid	Mea	suremen	t Distance	at 3m	Horizontal polarity		
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark	
(MHz)	$(dB\mu V)$	(dBµV)	(dB)	(dB)	dB	$\left(dB\mu V/m\right)$	$(dB\mu V/m)$	(dB)	(P/Q/A)	
3248.47	41.22	30.50	6.87	32.17	1.22	47.64	74	-26.36	P	
3248.47	30.57	30.50	6.87	32.17	1.22	36.99	54	-17.01	A	
N/A									P	
N/A									A	

RX / IEE	EE 802.11	g mode /	CH Mid	Me	asureme	nt Distanc	ce at 3m	Vertical polarity		
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark	
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)	
3248.52	42.68	30.50	6.87	32.17	1.22	49.10	74	-24.90	P	
3248.52	31.58	30.50	6.87	32.17	1.22	38.00	54	-16.00	A	
N/A									P	
N/A									A	

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto
- 5. Remark " *" means the Restricted band.

Operation Mode: RX / IEEE 802.11g mode / CH High **Test Date:** Sept. 15, 2005

Temperature: 28.6°C **Tested by:** Jerry Chang

Humidity: 56 % RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

RX / IEE	EE 802.11	g mode /	CH High	Measi	Measurement Distance at 3m Horizontal pola				
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
3249.15	41.42	30.50	6.87	32.17	1.22	47.84	74	-26.16	P
3249.15	30.76	30.50	6.87	32.17	1.22	37.18	54	-16.82	A
N/A									P
N/A									A

RX / IEE	EE 802.11	g mode /	CH High	Mea	surement	at 3m V	Vertical polarity		
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
3249.68	42.47	30.50	6.87	32.17	1.22	48.89	74	-25.11	P
3249.68	31.25	30.50	6.87	32.17	1.22	37.67	54	-16.33	A
N/A									P
N/A									A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

Operation Mode: RX / IEEE 802.11g Turbo mode **Test Date:** Sept. 15, 2005

Temperature: 28.6°C **Tested by:** Jerry Chang

Humidity: 56 % RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

RX / IEEE	E 802.11 g T	`urbo mode	/ CH High	Meası	Measurement Distance at 3m Horizontal pola				
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
3248.76	41.22	30.50	6.87	32.17	1.22	47.64	74	-26.36	P
3248.76	31.28	30.50	6.87	32.17	1.22	37.70	54	-16.30	A
N/A									P
N/A									A

RX / IEEE	2 802.11 g T	urbo mode	/ CH High	Mea	surement	at 3m V	Vertical polarity		
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
3248.83	42.55	30.50	6.87	32.17	1.22	48.97	74	-25.03	P
3248.83	32.56	30.50	6.87	32.17	1.22	38.98	54	-15.02	A
N/A									P
N/A									A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

TEST RESULTS

For Model: GN-AP02G

Below 1 GHz

Operation Mode: GN-BR02G Test Date: Oct. 07, 2005
Temperature: 30.2°C Tested by: Jerry Chang

Humidity: 68% RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

Freq- Uency	Meter Reading at 3 m(dB μ V/M)	Antenna Factor	Cable Loss	Limits	Emission Level at 3 m(dB \(\mu \) V/M)	Detector Mode	Margin
(MHz)	Horizontal	(dB)	(dB)	(dB µ V/M)	Horizontal	PK/QP	(dB)
150.01	14.36	10.97	1.20	43.50	26.53	QP	-16.97
250.01	17.22	13.73	1.50	46.00	32.45	QP	-13.55
275.32	24.85	13.73	1.55	46.00	40.13	QP	-5.87
368.02	15.23	14.16	2.08	46.00	31.47	QP	-14.53
375.00	18.63	14.20	2.13	46.00	34.97	QP	-11.04
551.86	11.22	18.21	2.78	46.00	32.21	QP	-13.79
600.00	9.80	18.75	2.95	46.00	31.50	QP	-14.50

Freq-	Meter Reading	Antenna	Cable	Limits	Emission Level	Detector	Margin
Uency	at 3 m(dB μ V/M)	Factor	Loss	Limits	at 3 m(dB μ V/M)	Mode	Wargin
(MHz)	Vertical	(dB)	(dB)	(dB µ V/M)	Vertical	PK/QP	(dB)
149.96	11.86	10.97	1.20	43.50	24.03	QP	-19.47
250.24	15.33	13.73	1.50	46.00	30.56	QP	-15.44
276.03	25.87	13.73	1.55	46.00	41.15	QP	-4.85
380.10	15.32	14.23	2.17	46.00	31.72	QP	-14.28
551.96	13.25	18.21	2.78	46.00	34.24	QP	-11.76
800.02	12.56	21.13	3.50	46.00	37.19	QP	-8.81

- 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 detector mode.
- 3. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- 4. The IF bandwidth of SPA between 30MHz to 1GHz was 100kHz.

Above 1 GHz

Operation Mode: TX / IEEE 802.11b mode / CH Low Test Date: Oct. 07, 2005

Temperature: 30.2°C **Tested by:** Jerry Chang

Humidity: 68% RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

	TX / IEE	EE 802.11	b mode /	CH Low	Measur	ement Di	istance at 3	3m Hoi	rizontal p	olarity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
	2413.50	95.32	29.83	6.01	31.86	0.00	99.29	Fundan	nental	P
	2413.50	87.23	29.83	6.01	31.86	0.00	91.20	Frequency		A
*	4813.75	41.35	33.63	8.28	32.79	0.69	51.15	74.00	-22.85	P
*	4813.75	31.22	33.63	8.28	32.79	0.69	41.02	54.00	-12.98	A
	N/A									P
	N/A									A

	TX / IEE	EE 802.11	b mode /	CH Low	Measu	irement I	Distance at	3m Vo	ertical pol	larity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
	2414.35	103.20	29.83	6.01	31.86	0.00	107.18	Fundan	nental	P
	2414.35	96.27	29.83	6.01	31.86	0.00	100.25	Frequ	ency	A
*	4823.67	42.11	33.65	8.29	32.80	0.69	51.94	74.00	-22.06	P
*	4823.67	31.65	33.65	8.29	32.80	0.69	41.48	54.00	-12.52	A
	N/A									P
	N/A									A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

Operation Mode: TX / IEEE 802.11b mode / CH Mid **Test Date:** Oct. 07, 2005

Temperature: 30.2°C **Tested by:** Jerry Chang

Humidity: 68% RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

	TX / IEI	EE 802.11	b mode /	CH Mid	Measur	ement Di	istance at 3	3m H	orizontal	polarity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$\left(dB\mu V/m\right)$	(dB)	(P/Q/A)
	2439.88	94.25	29.88	6.04	31.86	0.00	98.31	Funda	mental	P
	2439.88	87.52	29.88	6.04	31.86	0.00	91.58	Frequ	iency	A
*	4874.50	41.12	33.75	8.34	32.81	0.71	51.11	74.00	-22.89	P
*	4874.50	30.88	33.75	8.34	32.81	0.71	40.87	54.00	-13.13	A
	N/A									P
	N/A									A

	TX / IEI	EE 802.11	b mode /	CH Mid	Measu	ırement I	Distance at	3m '	Vertical p	olarity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
	2437.50	101.66	29.88	6.04	31.86	0.00	105.71	Funda	mental	P
	2437.50	94.57	29.88	6.04	31.86	0.00	98.62	Frequ	iency	A
*	4874.50	42.69	33.75	8.34	32.81	0.71	52.68	74.00	-21.32	P
*	4874.50	30.98	33.75	8.34	32.81	0.71	40.97	54.00	-13.03	A
	N/A									P
	N/A									A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- **3.** Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

Operation Mode: TX / IEEE 802.11b mode / CH High **Test Date:** Oct. 07, 2005

Temperature: 30.2°C **Tested by:** Jerry Chang

Humidity: 68% RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

	TX / IEE	EE 802.11	b mode /	CH High	Measur	ement Di	istance at 3	3m H	orizontal	polarity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
	2465.78	95.22	29.93	6.07	31.85	0.00	99.37	Funda	mental	P
	2465.78	87.68	29.93	6.07	31.85	0.00	91.83	Frequ	iency	A
*	4924.50	40.28	33.85	8.39	32.83	0.73	50.42	74.00	-23.58	P
*	4924.50	29.28	33.85	8.39	32.83	0.73	39.42	54.00	-14.58	A
	N/A									P
	N/A									A

	TX / IEE	EE 802.11	b mode /	CH High	Measu	ırement I	Distance at	3m '	Vertical p	olarity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
	2462.96	101.03	29.93	6.07	31.85	0.00	105.17	Funda	mental	P
	2462.96	94.48	29.93	6.07	31.85	0.00	98.62	Frequ	iency	A
*	4924.75	42.36	33.85	8.39	32.83	0.73	52.50	74.00	-21.50	P
*	4924.75	31.88	33.85	8.39	32.83	0.73	42.02	54.00	-11.98	A
	N/A									P
	N/A									A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- **3.** Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

Operation Mode: TX / IEEE 802.11g mode / CH Low **Test Date:** Oct. 07, 2005

Temperature: 30.2°C **Tested by:** Jerry Chang

Humidity: 68% RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

	TX / IEE	EE 802.11	g mode /	CH Low	Measur	ement Di	istance at 3	3m H	orizontal	polarity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$\left(dB\mu V/m\right)$	(dB)	(P/Q/A)
	2415.69	90.36	29.83	6.01	31.86	0.00	94.34	Funda	mental	P
	2415.69	70.25	29.83	6.01	31.86	0.00	74.23	Frequ	iency	A
*	4824.96	38.22	33.65	8.29	32.80	0.69	48.06	74.00	-25.94	P
*	4824.96	29.63	33.65	8.29	32.80	0.69	39.47	54.00	-14.53	A
	N/A									P
	N/A									A

	TX / IEE	EE 802.11	g mode /	CH Low	Measu	rement I	Distance at	3m '	Vertical p	olarity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
	2414.58	98.22	29.83	6.01	31.86	0.00	102.20	Funda	mental	P
	2414.58	90.17	29.83	6.01	31.86	0.00	94.15	Frequ	iency	A
*	4824.66	40.21	33.65	8.29	32.80	0.69	50.05	74.00	-23.95	P
*	4824.66	30.96	33.65	8.29	32.80	0.69	40.80	54.00	-13.20	A
	N/A									P
	N/A									A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- **3.** Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

Operation Mode: TX / IEEE 802.11g mode / CH Mid **Test Date:** Oct. 07, 2005

Temperature: 30.2°C **Tested by:** Jerry Chang

Humidity: 68% RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

	TX / IEI	EE 802.11	g mode /	CH Mid	Measur	ement Di	istance at 3	3m H	orizontal	polarity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$\left(dB\mu V/m\right)$	(dB)	(P/Q/A)
	2441.25	90.68	29.88	6.04	31.86	0.00	94.74	Funda	mental	P
	2441.25	81.55	29.88	6.04	31.86	0.00	85.61	Frequ	iency	A
*	4875.23	41.27	33.75	8.34	32.81	0.71	51.26	74.00	-22.74	P
*	4875.23	30.98	33.75	8.34	32.81	0.71	40.97	54.00	-13.03	A
	N/A									P
	N/A									A

	TX / IEI	EE 802.11	g mode /	CH Mid	Measu	ırement I	Distance at	3m '	Vertical p	olarity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
	2433.64	98.46	29.87	6.03	31.86	0.00	102.50	Funda	mental	P
	2433.64	90.08	29.87	6.03	31.86	0.00	94.12	Frequ	iency	A
*	4874.33	41.22	33.75	8.34	32.81	0.71	51.21	74.00	-22.79	P
*	4874.33	31.26	33.75	8.34	32.81	0.71	41.25	54.00	-12.75	A
	N/A									P
	N/A									A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- **3.** Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

Operation Mode: TX / IEEE 802.11g mode / CH High **Test Date:** Oct. 07, 2005

Temperature: 30.2°C **Tested by:** Jerry Chang

Humidity: 68% RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

	TX / IEE	EE 802.11	g mode /	CH High	Measur	ement Di	istance at 3	3m H	orizontal	polarity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
	2462.57	91.22	29.93	6.07	31.85	0.00	95.36	Funda	mental	P
	2462.57	81.57	29.93	6.07	31.85	0.00	85.71	Frequ	iency	A
*	4924.85	41.25	33.85	8.39	32.83	0.73	51.39	74.00	-22.61	P
*	4924.85	31.29	33.85	8.39	32.83	0.73	41.43	54.00	-12.57	A
	N/A									P
	N/A									A

	TX / IEE	EE 802.11	g mode /	CH High	Measu	ırement I	Distance at	t 3m	Vertical p	olarity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$\left(dB\mu V/m\right)$	(dB)	(P/Q/A)
	2464.18	99.21	29.93	6.07	31.85	0.00	103.35	Funda	mental	P
	2464.18	90.25	29.93	6.07	31.85	0.00	94.39	Frequ	iency	A
*	4924.96	41.58	33.85	8.39	32.83	0.73	51.72	74.00	-22.28	P
*	4924.96	31.12	33.85	8.39	32.83	0.73	41.26	54.00	-12.74	A
	N/A									P
	N/A									A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- **3.** Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

Operation Mode: TX / IEEE 802.11g Turbo mode **Test Date:** Oct. 07, 2005

Temperature: 30.2°C **Tested by:** Jerry Chang

Humidity: 68% RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

	TX / IEEE	802.11 g T	urbo g mod	e/CH High	Measur	ement Di	istance at 3	3m H	orizontal	polarity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
	2447.96	85.23	29.90	6.05	31.86	0.00	89.32	Funda	mental	P
	2447.96	77.69	29.90	6.05	31.86	0.00	81.78	Frequ	iency	A
*	4874.55	39.88	33.75	8.34	32.81	0.71	49.87	74.00	-24.13	P
*	4874.55	31.42	33.75	8.34	32.81	0.71	41.41	54.00	-12.59	A
	N/A									P
	N/A									A

	TX / IEEE	802.11 g T	urbo g mod	e/CH High	Measu	ırement I	Distance at	t 3m	Vertical p	olarity
	Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
	(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$\left(dB\mu V/m\right)$	(dB)	(P/Q/A)
	2448.22	97.22	29.90	6.05	31.86	0.00	101.31	Funda	mental	P
	2448.22	89.24	29.90	6.05	31.86	0.00	93.33	Frequ	iency	A
*	4873.69	41.69	33.75	8.34	32.81	0.71	51.68	74.00	-22.32	P
*	4873.69	31.22	33.75	8.34	32.81	0.71	41.21	54.00	-12.79	A
	N/A									P
	N/A									A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- 4. Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

Operation Mode: RX / IEEE 802.11b mode / CH Low **Test Date:** Oct. 07, 2005

Temperature: 30.2°C **Tested by:** Jerry Chang

Humidity: 68% RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

RX / IEE	EE 802.11	b mode /	CH Low	Measi	uremen	t Distance	at 3m	Horizontal polarity		
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark	
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)	
3216.01	42.12	30.43	6.85	32.14	1.26	48.51	74	-25.49	P	
3216.01	31.25	30.43	6.85	32.14	1.26	37.64	54	-16.36	A	
N/A									P	
N/A									A	

RX / IEE	EE 802.11	b mode /	CH Low	Mea	sureme	e at 3m	Vertical polarity		
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$\left(dB\mu V/m\right)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
3215.98	43.22	30.43	6.85	32.14	1.26	49.61	74	-24.39	P
3215.98	32.28	30.43	6.85	32.14	1.26	38.67	54	-15.33	A
N/A									P
N/A									A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

Operation Mode: RX / IEEE 802.11b mode / CH Mid **Test Date:** Oct. 07, 2005

Temperature: 30.2°C **Tested by:** Jerry Chang

Humidity: 68% RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

RX / IEI	EE 802.11	b mode /	CH Mid	Measi	uremen	at 3m	Horizontal polarity		
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
3247.63	40.69	30.50	6.87	32.17	1.22	47.11	74	-26.89	P
3247.63	31.55	30.50	6.87	32.17	1.22	37.97	54	-16.03	A
N/A									P
N/A									A

RX / IEI	EE 802.11	b mode /	CH Mid	Mea	sureme	e at 3m	Vertical polarity		
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
3248.69	41.37	30.50	6.87	32.17	1.22	47.79	74	-26.21	P
3248.69	32.85	30.50	6.87	32.17	1.22	39.27	54	-14.73	A
N/A									P
N/A									A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

Operation Mode: RX / IEEE 802.11b mode / CH High **Test Date:** Oct. 07, 2005

Temperature: 30.2°C **Tested by:** Jerry Chang

Humidity: 68% RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

RX / IEE	E 802.11	b mode /	CH High	Meas	suremen	t Distance	at 3m	Horizontal polarity		
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark	
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$\left(dB\mu V/m\right)$	$(dB\mu V/m)$	(dB)	(P/Q/A)	
3282.44	41.63	30.56	6.90	32.19	1.17	48.08	74	-25.92	P	
3282.44	31.69	30.56	6.90	32.19	1.17	38.14	54	-15.86	A	
N/A									P	
N/A									A	

RX / IEE	E 802.11	b mode /	CH High	Me	asureme	nt Distanc	ce at 3m	Vertical polarity		
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark	
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)	
3283.29	42.15	30.57	6.90	32.20	1.17	48.60	74	-25.40	P	
3283.29	31.89	30.57	6.90	32.20	1.17	38.34	54	-15.66	A	
N/A									P	
N/A									A	

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

Operation Mode: RX / IEEE 802.11g mode / CH Low **Test Date:** Oct. 07, 2005

Temperature: 30.2°C **Tested by:** Jerry Chang

Humidity: 68% RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

RX / IEE	EE 802.11	g mode /	CH Low	Measi	Measurement Distance at 3m Horizontal po				
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
3215.96	41.22	30.43	6.85	32.14	1.26	47.61	74	-26.39	P
3215.96	30.87	30.43	6.85	32.14	1.26	37.26	54	-16.74	A
N/A									P
N/A									A

RX / IEE	EE 802.11	g mode /	CH Low	Measurement Distance at 3m				Vertical polarity		
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark	
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)	
3216.01	42.29	30.43	6.85	32.14	1.26	48.68	74	-25.32	P	
3216.01	31.25	30.43	6.85	32.14	1.26	37.64	54	-16.36	A	
N/A									P	
N/A									A	

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

Operation Mode: RX / IEEE 802.11g mode / CH Mid **Test Date:** Oct. 07, 2005

Temperature: 30.2°C **Tested by:** Jerry Chang

Humidity: 68% RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

RX / IEE	EE 802.11	g mode /	CH Mid	Mea	suremen	t Distance	at 3m	Horizontal polarity		
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark	
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)	
3247.53	41.32	30.50	6.87	32.17	1.22	47.74	74	-26.26	P	
3247.53	31.21	30.50	6.87	32.17	1.22	37.63	54	-16.37	A	
N/A									P	
N/A									A	

RX / IEE	EE 802.11	g mode /	CH Mid	Me	asureme	nt Distanc	ce at 3m	Vertical polarity		
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark	
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)	
3248.69	42.88	30.50	6.87	32.17	1.22	49.30	74	-24.70	P	
3248.69	32.08	30.50	6.87	32.17	1.22	38.50	54	-15.50	A	
N/A									P	
N/A									A	

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

Operation Mode: RX / IEEE 802.11g mode / CH High **Test Date:** Oct. 07, 2005

Temperature: 30.2°C **Tested by:** Jerry Chang

Humidity: 68% RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

RX / IEE	EE 802.11	g mode /	CH High	Meası	Measurement Distance at 3m Horizontal p				
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
3249.08	41.36	30.50	6.87	32.17	1.22	47.78	74	-26.22	P
3249.08	31.23	30.50	6.87	32.17	1.22	37.65	54	-16.35	A
N/A									P
N/A									A

RX / IEEE 802.11g mode / CH High				Measurement Distance at 3m				Vertical polarity	
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
3249.36	42.65	30.50	6.87	32.17	1.22	49.07	74	-24.93	P
3249.36	31.86	30.50	6.87	32.17	1.22	38.28	54	-15.72	A
N/A									P
N/A									A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

Operation Mode: RX / IEEE 802.11g Turbo mode **Test Date:** Oct. 07, 2005

Temperature: 30.2°C **Tested by:** Jerry Chang

Humidity: 68% RH **Polarity:** Horizontal; Vertical

Date of Issue: Oct. 27, 2005

RX / IEEE 802.11 g Turbo mode / CH High				Measurement Distance at 3m Horizontal polarity					olarity
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
3248.85	41.63	30.50	6.87	32.17	1.22	48.05	74	-25.95	P
3248.85	31.58	30.50	6.87	32.17	1.22	38.00	54	-16.00	A
N/A									P
N/A									A

RX / IEEE 802.11 g Turbo mode / CH High				Measurement Distance at 3m Ve				ertical polarity	
Freq.	Reading	AF	Closs	Pre-amp	Filter	Level	Limit	Margin	Mark
(MHz)	(dBµV)	(dBµV)	(dB)	(dB)	dB	$(dB\mu V/m)$	$(dB\mu V/m)$	(dB)	(P/Q/A)
3248.11	42.77	30.50	6.87	32.17	1.22	49.19	74	-24.81	P
3248.11	32.86	30.50	6.87	32.17	1.22	39.28	54	-14.72	A
N/A									P
N/A									A

- 1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser 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.
- 3. Radiated emissions measured in frequency above 1000MHz were made with an instrument using Peak detector mode and average detector mode of the emission shown in Actual FS column.
- **4.** Spectrum setting:
 - a. Peak Setting 1GHz to 10th harmonics of fundamental, RBW = 1MHz, VBW = 1MHz, Sweep time = Auto.
 - b. AV Setting 1GH z to 10th harmonics of fundamental, RBW = 1MHz, VBW = 10Hz, b. Sweep time = Auto.
- 5. Remark " *" means the Restricted band.

7.7POWER LINE CONDUCTED EMISSIONS

LIMIT

For an intentional radiator which 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 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range is listed as follows:

Date of Issue: Oct. 27, 2005

Frequency Range (MHz)	Limits (dBµV)				
Frequency Range (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			

Compliance with this provision shall be based on the measurement of the radio frequency voltage between each power line (*Live Line* and *Neutral Line*) and ground at the power terminals.

MEASUREMENT EQUIPMENT USED

Name of Equipment	Manufacturer	Model	Serial Number	Date of Calibration
SCHWARZBECK		NNLK	8121-308	Oct. 04,2005
L.I.S.N.		8121		For Insertion loss
TEST RECEIVER	R&S	ESCS 30	100348	JUN. 17, 2005
TYPE N COAXIAL CABLE				FEB. 26, 2005

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

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.

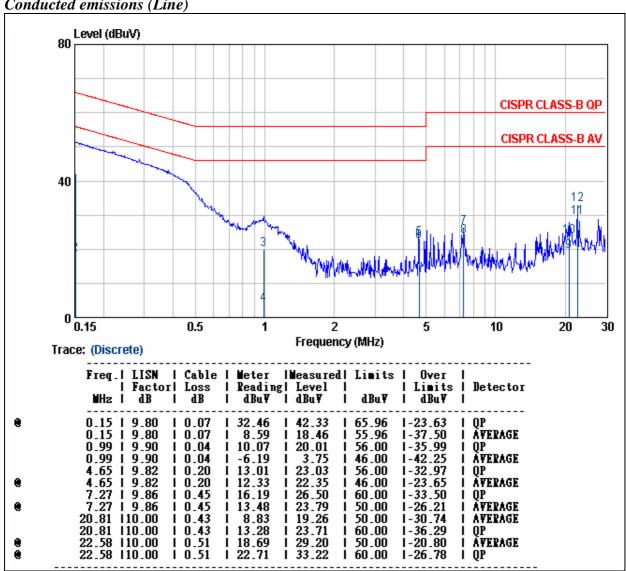
Test Data For Model: GN-BR02G

Operation Mode: $TX + RX \mod e$ **Test Date:** Sept. 18, 2005

27.5°C 74% RH **Temperature: Humidity:**

Tested by: Test Mode Jerry Chang Adapter: AD-0780

Conducted emissions (Line)



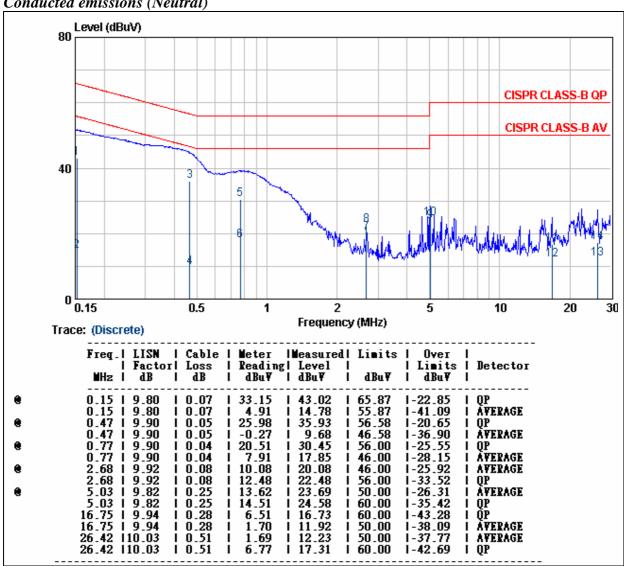
- Measuring frequencies from 0.15 MHz to 30MHz. 1
- 2 The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.
- 3 The IF bandwidth of SPA between 0.15MHz to 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz to 30MHz was 9kHz;
- $a.\ Level\ (dBuV) = Read\ Level\ (dBuV) + LISN\ Factor\ (dB) + Cable\ Loss\ (dB)$ 4 $b.Over\ Limit\ value\ (dB) = Level\ (dBuV) - Limit\ Line\ (dBuV)$

Operation Mode: $TX + RX \mod e$ **Test Date:** Sept. 18, 2005

27.5°C **Temperature: Humidity:** 74% RH

Tested by: Jerry Chang **Test Mode** Adapter: AD-0780

Conducted emissions (Neutral)



- Measuring frequencies from 0.15 MHz to 30MHz. 1
- 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 to 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz to 30MHz was 9kHz;
- 4 a. Level (dBuV) = Read Level (dBuV) + LISN Factor (dB) + Cable Loss (dB) $b.Over\ Limit\ value\ (dB) = Level\ (dBuV) - Limit\ Line\ (dBuV)$

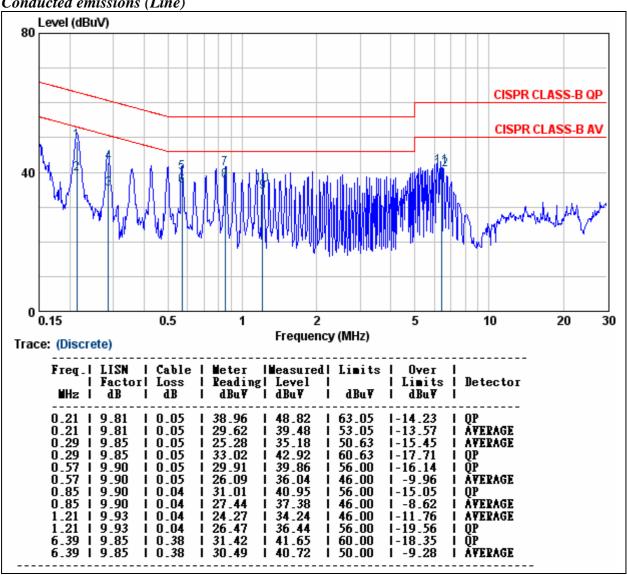
Test Data For Model: GN-AP02G

Operation Mode: TX + RX mode **Test Date:** Oct. 21, 2005

25.1°C **Humidity:** 60% RH **Temperature:**

Tested by: Boy Wu **Test Mode** Adapter: Fairway, WN10A-050

Conducted emissions (Line)

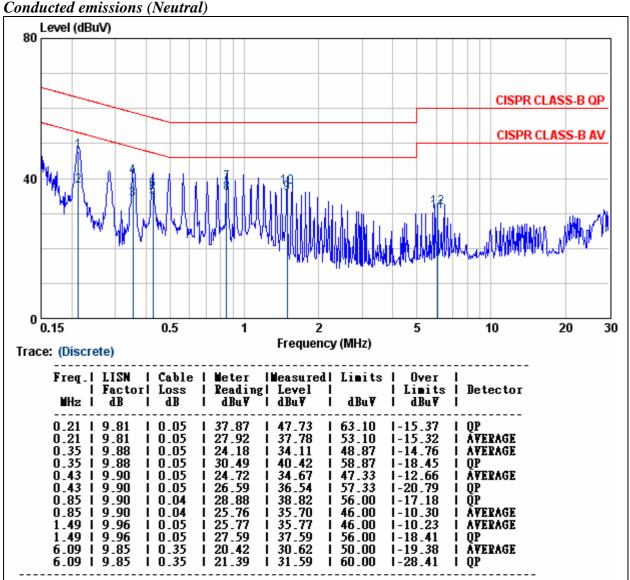


- Measuring frequencies from 0.15 MHz to 30MHz.
- 2 The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.
- The IF bandwidth of SPA between 0.15MHz to 30MHz was 10kHz; the IF bandwidth of 3 Test Receiver between 0.15MHz to 30MHz was 9kHz;
- 4 $a.\ Level\ (dBuV) = Read\ Level\ (dBuV) + LISN\ Factor\ (dB) + Cable\ Loss\ (dB)$ $b.Over\ Limit\ value\ (dB) = Level\ (dBuV) - Limit\ Line\ (dBuV)$

Operation Mode: TX + RX mode**Test Date:** Oct. 21, 2005

Temperature: 25.1°C **Humidity:** 60% RH

Test Mode Tested by: Boy Wu Adapter:Fairway,WN10A-050

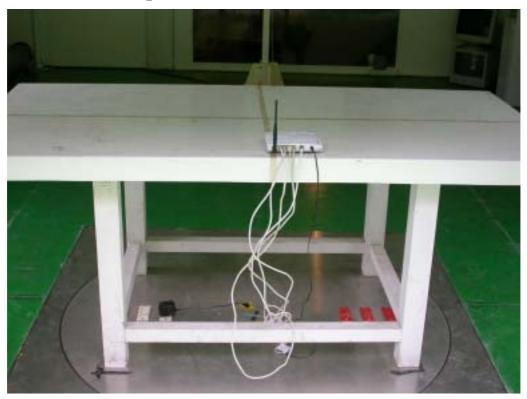


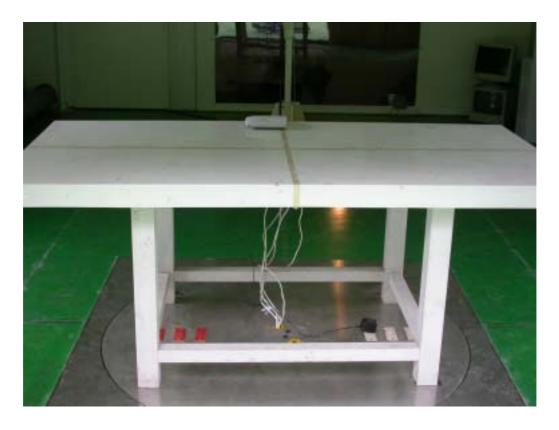
- Measuring frequencies from 0.15 MHz to 30MHz. 1
- 2 The emissions measured in frequency range from 0.15 MHz to 30MHz were made with an instrument using Quasi-peak detector and average detector.
- 3 The IF bandwidth of SPA between 0.15MHz to 30MHz was 10kHz; the IF bandwidth of Test Receiver between 0.15MHz to 30MHz was 9kHz;
- 4 $a.\ Level\ (dBuV) = Read\ Level\ (dBuV) + LISN\ Factor\ (dB) + Cable\ Loss\ (dB)$ $b.Over\ Limit\ value\ (dB) = Level\ (dBuV) - Limit\ Line\ (dBuV)$

C ID: JCK-GN-BR02G Date of Issue: Oct. 27, 2005

APPENDIX 1 PHOTOGRAPHS OF TEST SETUP

Radiated Emission Set up Photos For Model: GN-BR02G







Radiated Emission Set up Photos For Model: GN-AP02G





Conducted Emission Set Up Photos For Model: GN-BR02G





Conducted Emission Set Up Photos For Model: GN-AP02G



