FCC PART 15.247

EMI MEASUREMENT AND TEST REPORT

For

NETGEAR, Inc

4500 Great America Parkway
Santa Clara, CA 95054, USA

FCC ID: PY3WPN824

This Report Concerns:	Equipment Type:
☒ Original Report	Wireless 802.11b/g Access Point

Test Engineer:	Ming Jin
Report No.:	R0501245
Report Date:	2005-02-15
Reviewed By:	Daniel Deng
Prepared By:	Bay Area Compliance Laboratory Corporation (BACL) 230 Commercial Street Sunnyvale, CA 94085 Tel: (408) 732-9162 Fax: (408) 732 9164

TABLE OF CONTENTS

GENERAL INFORMATION

Product Description for Equipment Under Test (EUT)

The *NETGEAR, Inc's* product, FCC ID: *PY3WPN824*, Model: *WPN824* or the "EUT" as referred to this report is a Wireless 802.11b/g Access Point which measures approximately 220mmL x 150mmW x 25mmH. The EUT operates at the frequency range of 2412– 2462MHz, with maximum output power of 0.091W (19.6dBm).

** The test data gathered are from typical production sample, serial number: 11.212 provided by the manufacturer.*

Objective

This type approval report is prepared on behalf of *NETGEAR, Inc* in accordance with Part 2, Subpart J, Part 15, Subparts A , B and C of the Federal Communication Commissions rules.

The objective is to determine compliance with FCC rules for Output Power, Antenna Requirements, 6 dB Bandwidth, power spectral density, 100 kHz Bandwidth of Band Edges Measurement, Spurious Emission, Conducted and Spurious Radiated Emission.

Related Submittal(s)/Grant(s)

No Related Submittals.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2003, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All radiated and conducted emissions measurement was performed at Bay Area Compliance Laboratory, Corp. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Test Facility

The Open Area Test site used by BACL to collect radiated and conducted emission measurement data is located in the back parking lot of the building at 230 Commercial Street, Sunnyvale, California, USA.

Test site at BACL has been fully described in reports submitted to the Federal Communication Commission (FCC) and Voluntary Control Council for Interference (VCCI). The details of these reports has been found to be in compliance with the requirements of Section 2.948 of the FCC Rules on February 11 and December 10, 1997 and Article 8 of the VCCI regulations on December 25, 1997. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2003.

The Federal Communications Commission and Voluntary Control Council for Interference has the reports on file and is listed under FCC file 31040/SIT 1300F2 and VCCI Registration No.: C-1298 and R-1234. The test site has been approved by the FCC and VCCI for public use and is listed in the FCC Public Access Link (PAL) database.

Additionally, BACL is a National Institute of Standards and Technology (NIST) accredited laboratory, under the National Voluntary Laboratory Accredited Program (Lab Code 200167-0). The current scope of accreditations can be found at http://ts.nist.gov/ts/htdocs/210/214/scopes/2001670.htm

SYSTEM TEST CONFIGURATION

Justification

The host system was configured for testing according to ANSI C63.4-2003.

The EUT was tested in the normal (native) operating mode to represent *worst*-case results during the final qualification test.

EUT Exercise Software

The EUT exercise program used during radiated and conducted testing was designed to exercise the system components. The test software, provided by the customer, is started the Windows terminal program under the Windows 98/2000/ME/XP operating system.

Once loaded, set the Tx channel to low, mid and high for testing.

Special Accessories

As shown in following test block diagram, all interface cables used for compliance testing are shielded.

Schematics / Block Diagram

Please refer to Appendix A.

Equipment Modifications

No modifications were made to the EUT.

Remote Support Equipment List and Details

Manufacturer	Description	Model	Serial Number	FCC ID
IBM	Laptop PC	2662	N/A	N/A

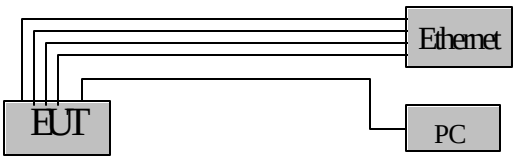
Power Supply Information

Manufacturer	Description	Model	Serial Number	FCC ID
Netgear	AC/DC Adapter	MWD-1200800	None	None

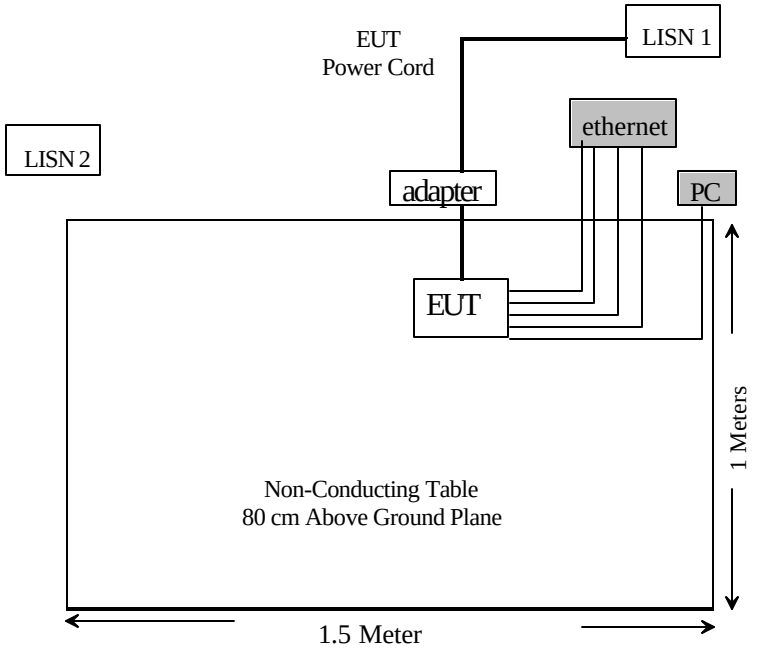
Interface Ports and Cabling

Cable Description	Length (M)	From	To
Ethernet Cable	5.0	Ethernet port / EUT	Ethernet Port / PC
Ethernet Cable		Ethernet port / EUT	Ethernet
Ethernet Cable		Ethernet port / EUT	Ethernet
Ethernet Cable		Ethernet port / EUT	Ethernet
Ethernet Cable		Ethernet port / EUT	Ethernet

Configuration of Test System



Test Setup Block Diagram



SUMMARY OF TEST RESULTS

Results reported relate only to the product tested.

FCC RULES	DESCRIPTION OF TEST	RESULT
§2.1091	RF Exposure	Pass
§15.203	Antenna Requirement	Pass
§ 15.207 (a)	Conducted Emissions	Pass
§2.1051	Spurious Emission at Antenna Port	Compliant
§15.209 (a)	Radiated Emission	Pass
§15.247 (a)(2)	6 dB Bandwidth	Pass
§15.247 (b)(3)	Maximum Peak Output Power	Pass
§ 15.247 (c)	100 kHz Bandwidth of Frequency Band Edge	Pass
§15.247 (d)	Peak Power Spectral Density	Pass

§15.203 - ANTENNA REQUIREMENT

Standard Applicable

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

And according to § 15.247 (b) (4), if transmitting antennas of directional gain greater than 6 dBi are used the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

The antenna for this device is an integral antenna with gain of 0-4dBi.

§15.207(a) - CONDUCTED EMISSIONS

Measurement Uncertainty

All measurements involve certain levels of uncertainties. The factors contributing to uncertainties are spectrum analyzer, cable loss, and LISN.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of any conducted emissions measurement at BACL is ±2.4 dB.

EUT Setup

The measurement was performed in the shield room, using the same setup per ANSI C63.4-2003 measurement procedure. The specification used was FCC 15 Subpart B limits.

The spacing between the peripherals was 10 centimeters.

External I/O cables were draped along the edge of the test table and bundle when necessary.

Spectrum Analyzer Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30Mhz.

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Date
Rohde & Schwarz	LISN	ESH2-Z5	871884/039	2004-08-16
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2004-09-15
Fluke	Calibrated Voltmeter	189	18485-38	2004-07-18

* **Statement of Traceability:** BACL attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

Test Procedure

During the conducted emission test, the power cord of the host system was connected to the auxiliary outlet of the first LISN.

Maximizing procedure was performed on the six (6) highest emissions of each modes tested to ensure EUT is compliant with all installation combination.

All data was recorded in the peak detection mode. Quasi-peak readings were only performed when an emission was found to be marginal (within -4 dBμV of specification limits). Quasi-peak readings are distinguished with a "**Qp**".

Summary of Test Results

According to the recorded data in following table, the EUT complies with the FCC Conducted margin for a Class B device, with the *worst* margin reading of:

-25.6 dB at 16.900 MHz in the Line mode

Environmental Conditions

Temperature:	21° C
Relative Humidity:	37%
ATM Pressure:	1032 mbar

The testing was performed by Ming Jin on 2005-02-01.

Conducted Emissions Test Data

LINE CONDUCTED EMISSIONS				FCC PART 15 CLASS B	
Frequency MHz	Amplitude dBµV	Detector Qp/Ave/Peak	Phase Line/Neutral	Limit dBµV	Margin dB
16.900	24.4	AVE	Line	50	-25.6
3.340	18.7	AVE	Neutral	46	-27.3
3.240	18.0	AVE	Line	46	-28.0
20.200	21.4	AVE	Neutral	50	-28.6
16.900	28.1	QP	Line	60	-31.9
3.340	21.6	QP	Neutral	56	-34.4
20.200	25.3	QP	Neutral	60	-34.7
0.150	21.1	AVE	Line	56	-34.9
3.240	20.5	QP	Line	56	-35.5
0.150	17.2	AVE	Neutral	56	-38.8
0.150	25.3	QP	Line	66	-40.7
0.150	23.5	QP	Neutral	66	-42.5

Plot of Conducted Emissions Test Data

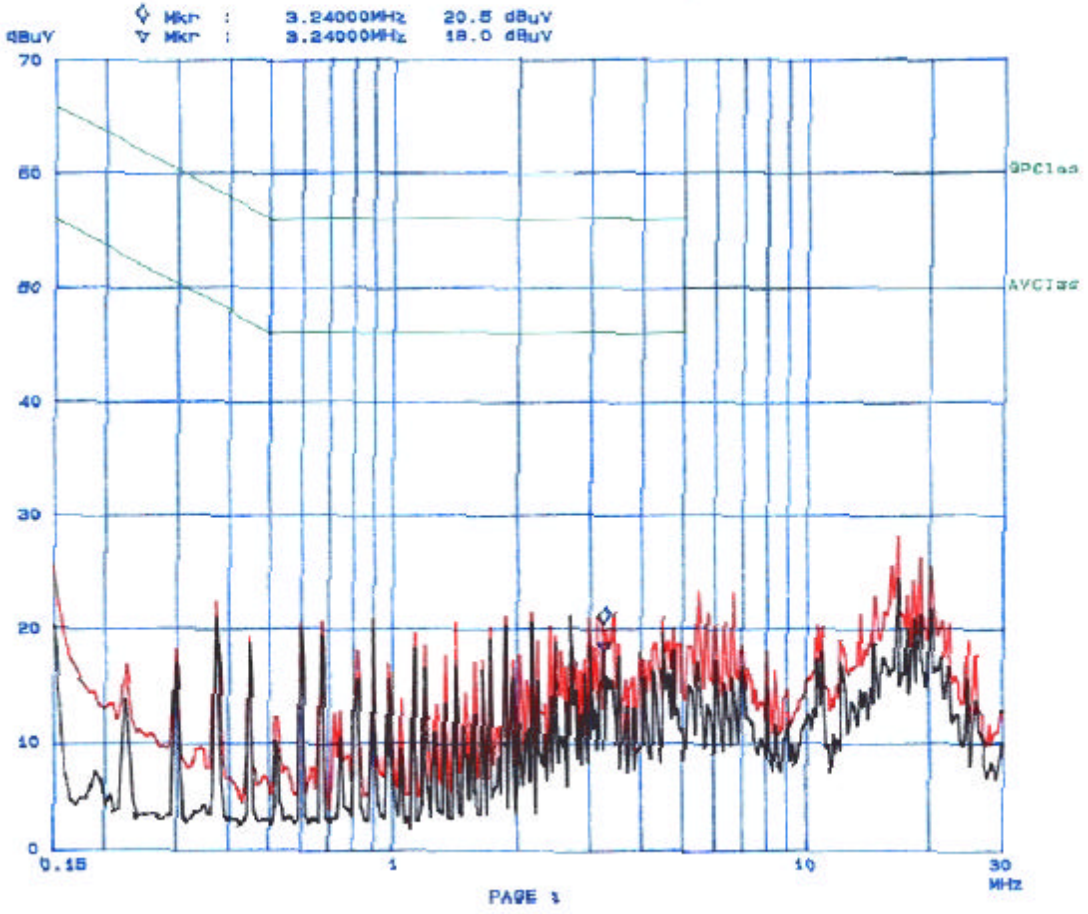
Plot(s) of Conducted Emissions Test Data is presented hereinafter as reference.

Bay Area Compliance Laboratory Corp 01. Feb 05 09:30
Class B

EUT: WPN824
Manuf: Netgear
Op Cond: Normal
Operator: Ming
Comment: L
120V AC

Scan Settings (3 Ranges)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	1M	5k	9k	QP+AV	20ms	15dBLN	OFF
1M	5M	10k	9k	QP+AV	1ms	15dBLN	OFF
5M	30M	100k	9k	QP+AV	1ms	15dBLN	OFF



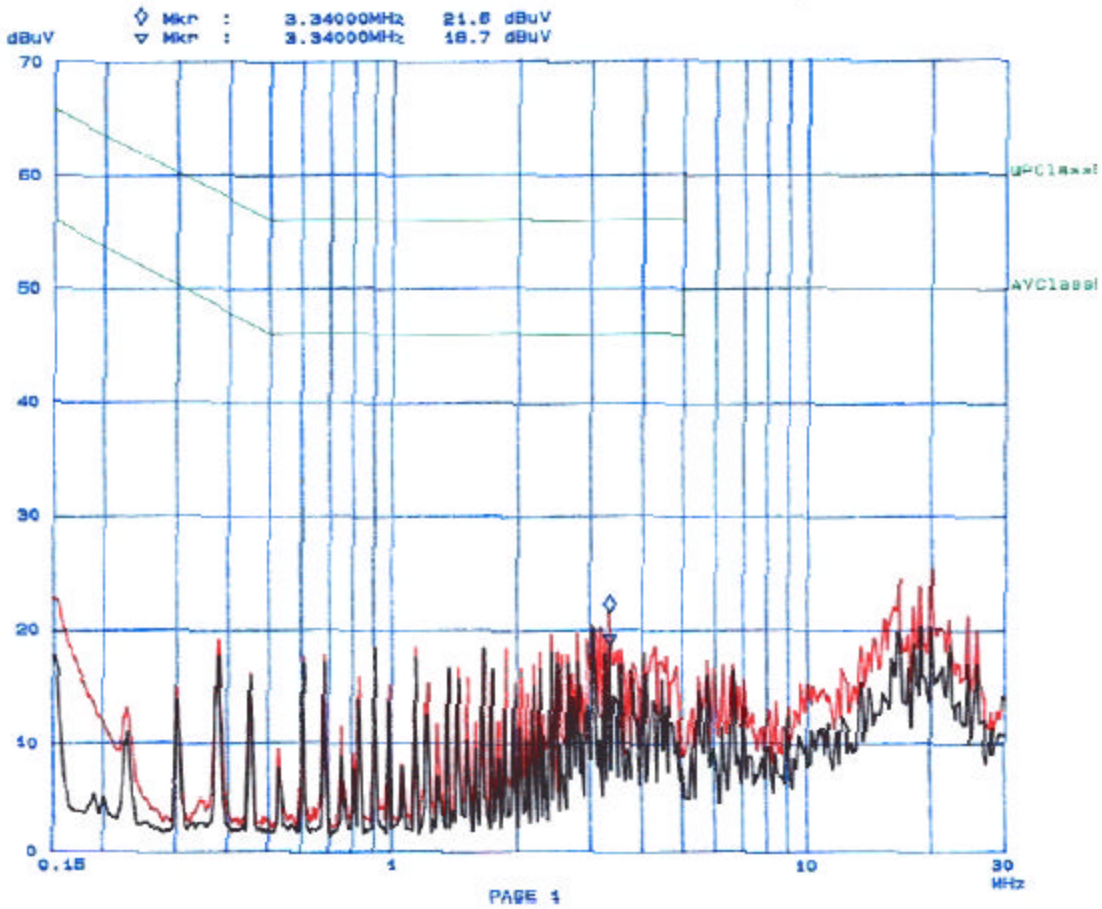
Bay Area Compliance Laboratory Corp 01. Feb 05 09:51

Class B

EUT: WPN824
Manuf: Netgear
Op Cond: Normal
Operator: Ming
Comment: N
120V AC

Scan Settings (3 Ranges)

Frequencies			Receiver Settings				
Start	Stop	Step	IF BW	Detector	M-Time	Atten	Preamp
150k	1M	5k	9k	QP+AV	20ms	15dBLN	OFF
1M	5M	10k	9k	QP+AV	1ms	15dBLN	OFF
5M	30M	100k	9k	QP+AV	1ms	15dBLN	OFF



§2.1051 - SPURIOUS EMISSIONS AT ANTENNA TERMINALS

Standard Applicable

Requirements: CFR 47, § 2.1051.

The spectrum was to be investigated to the tenth harmonics of the highest fundamental frequency as specified in § 2.1057.

Measurement Procedure

The RF output of the EUT was connected to a spectrum analyzer through appropriate attenuation. The resolution bandwidth of the spectrum analyzer was set at 100 kHz. Sufficient scans were taken to show any out of band emissions up to 10^{th} harmonic.

Equipment Lists

Manufacturer	Description	Model	Serial Number	Cal. Date
HP	Spectrum Analyzer	HP8564E	3943A01781	2004-10-04
HP	Plotter	HP7470A	2541A49659	Not Required

*** Statement of Traceability: BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

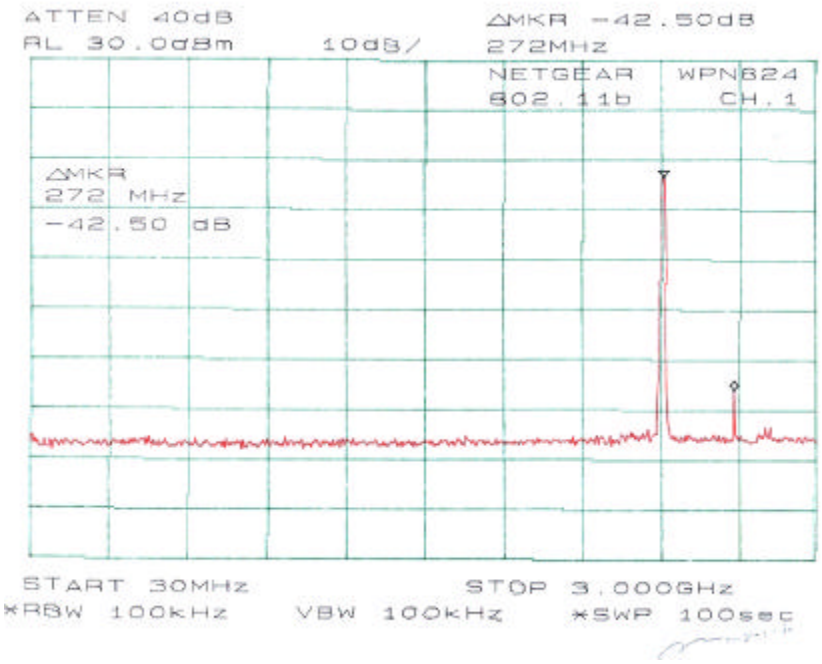
Measurement Result

Please refer to following pages for plots of spurious emission.

Environmental Conditions

Temperature:	21° C
Relative Humidity:	37%
ATM Pressure:	1032 mbar

The testing was performed by Ming Jin on 2005-01-24.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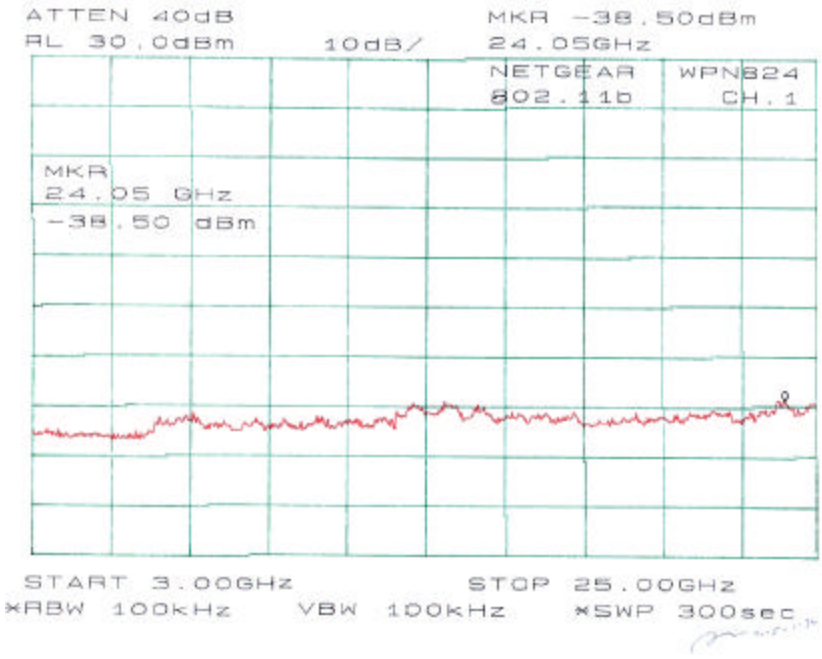
10dB/
ΔMKR -42.50dB
272MHz
NETGEAR WPN824
802.11b CH.1
ΔMKR
272 MHz
-42.50 dB
START 30MHz
STOP 3.000GHz
*RBW 100kHz
VBW 100kHz
*SWP 100sec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10dB/
MKR -38.50dBm
24.05GHz
NETGEAR WPN824
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MKR
24.05 GHz
-38.50 dBm
START 3.00GHz
STOP 25.00GHz
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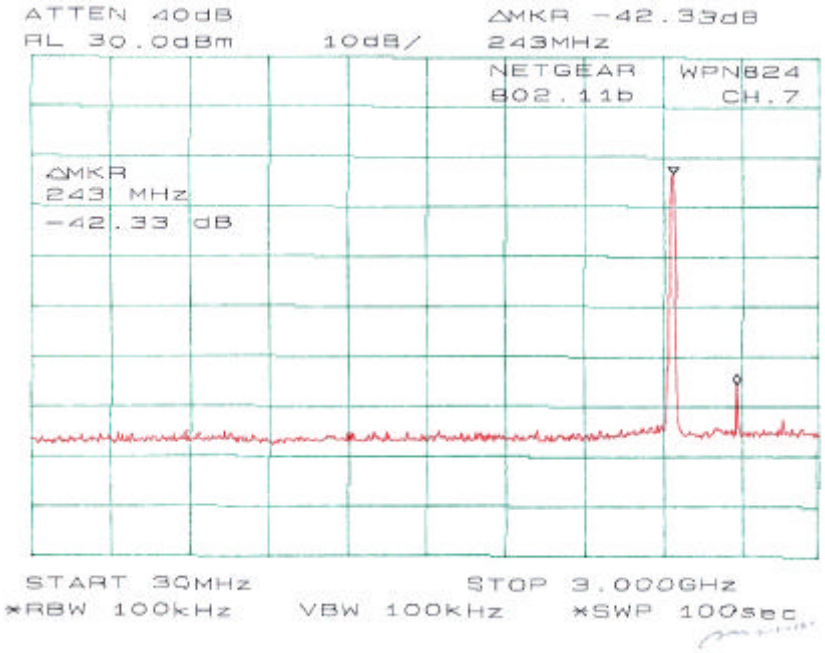
VBW 100kHz
*SWP 300sec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10dB/
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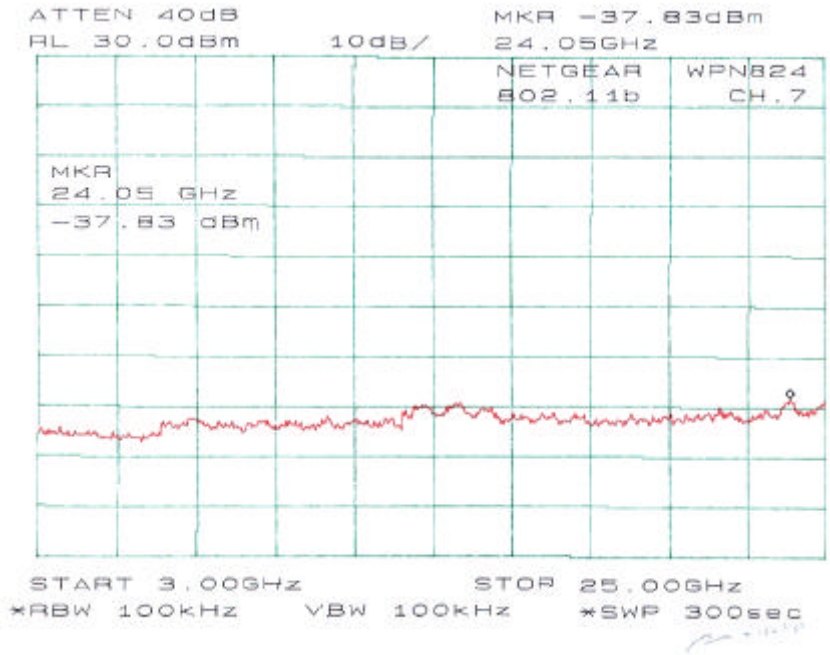
243MHz
NETGEAR
802.11b
WPN824
CH.7
ΔMKR
243 MHz
-42.33 dB
START 30MHz
STOP 3.000GHz
*RBW 100kHz
VBW 100kHz
*SWP 100sec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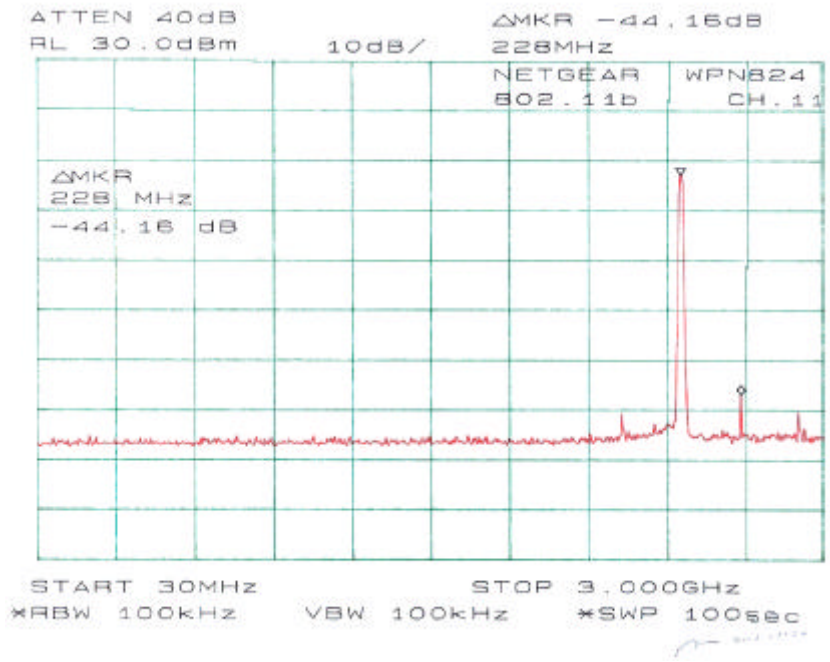
RL 30.0dBm
10dB/
MKR -37.83dBm
24.05GHz
NETGEAR
802.11b
WPN824
CH.7
MKR
24.05 GHz
-37.83 dBm
START 3.00GHz
STOP 25.00GHz
*RBW 100kHz
VBW 100kHz
*SWP 300sec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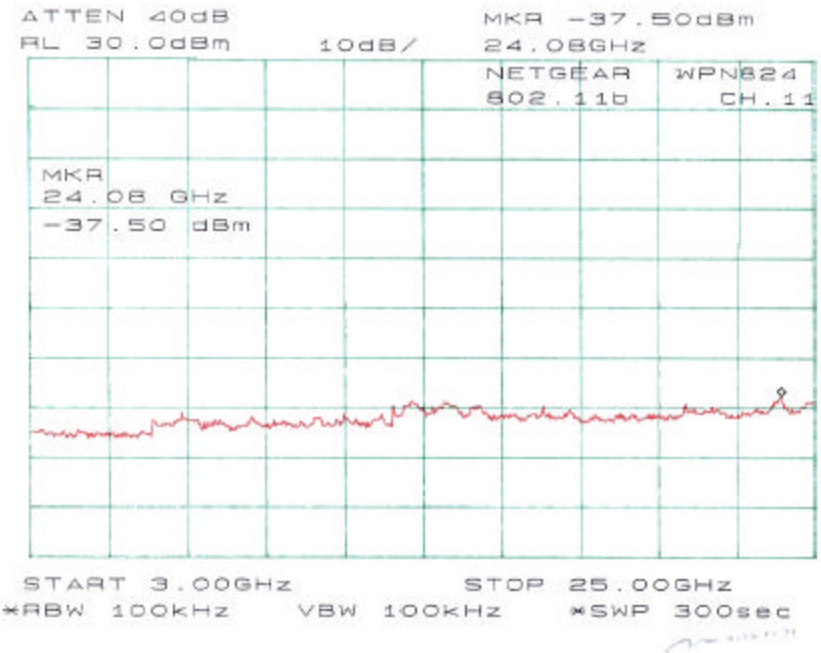
10dB/
ΔMKR -44.16dB
228MHz
NETGEAR WPN824
802.11b CH.11
ΔMKR
228 MHz
-44.16 dB
START 30MHz
STOP 3.000GHz
*RBW 100kHz
VBW 100kHz
*SWP 100sec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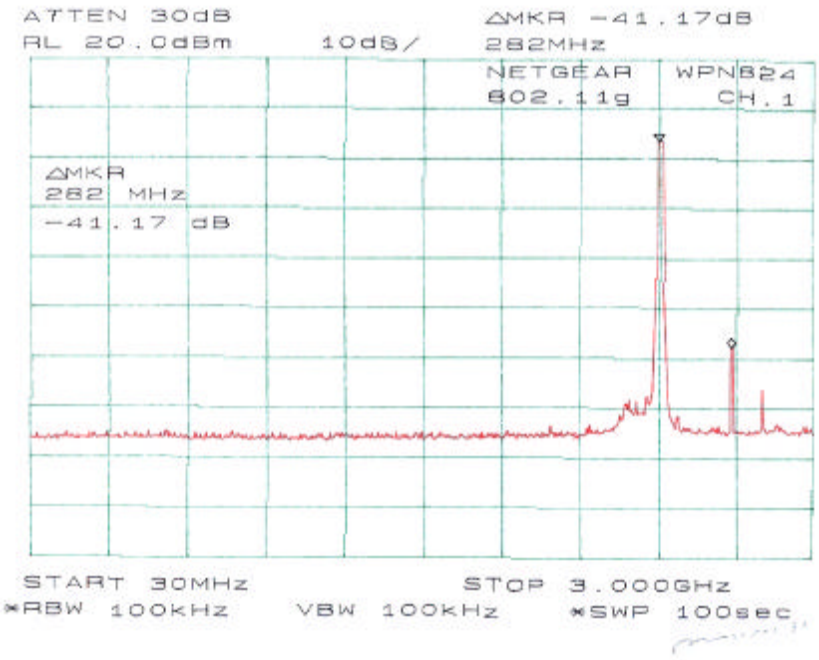
RL 30.0dBm
10dB/
MKR -37.50dBm
24.08GHz
NETGEAR WPN824
802.11b CH.11
MKR
24.08 GHz
-37.50 dBm
START 3.00GHz
STOP 25.00GHz
*RBW 100kHz
VBW 100kHz
*SWP 300sec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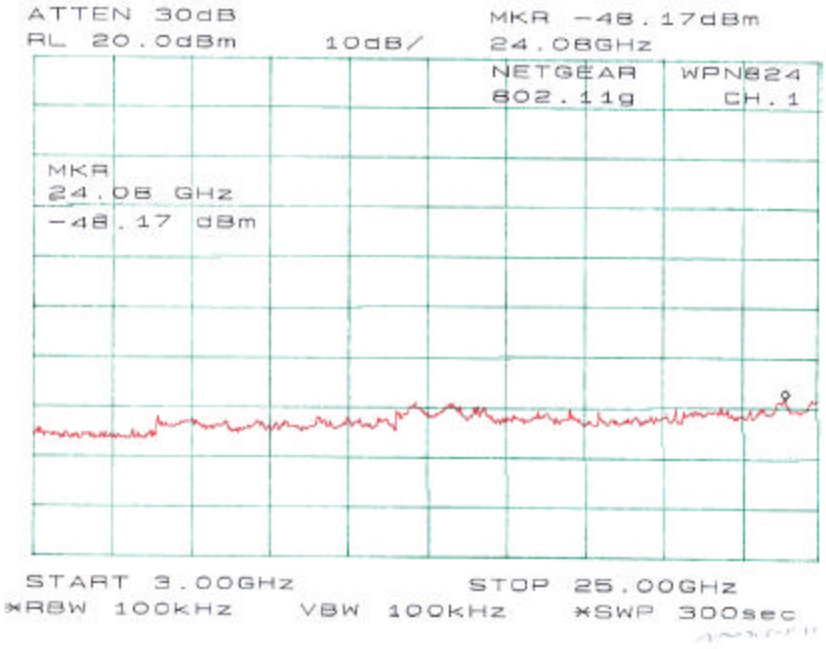
10dB/
ΔMKR -41.17dB
282MHz
NETGEAR WPN824
802.11g CH.1
ΔMKR
282 MHz
-41.17 dB
START 30MHz
STOP 3.000GHz
*RBW 100kHz
VBW 100kHz
*SWP 100sec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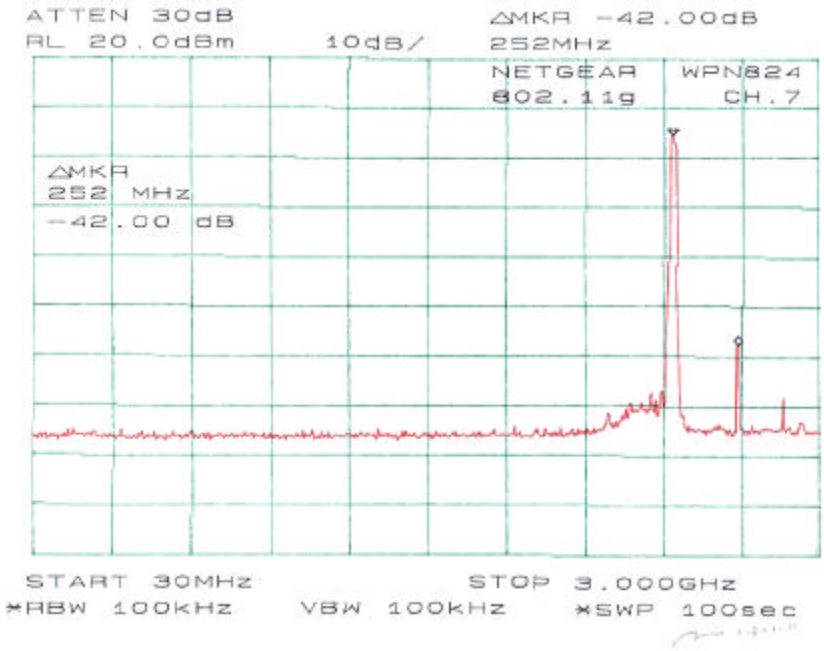
RL 20.0dBm
10dB/
MKR -48.17dBm
24.08GHz
NETGEAR WPN824
802.11g CH.1
MKR
24.08 GHz
-48.17 dBm
START 3.00GHz
STOP 25.00GHz
*RBW 100kHz
VBW 100kHz
*SWP 300sec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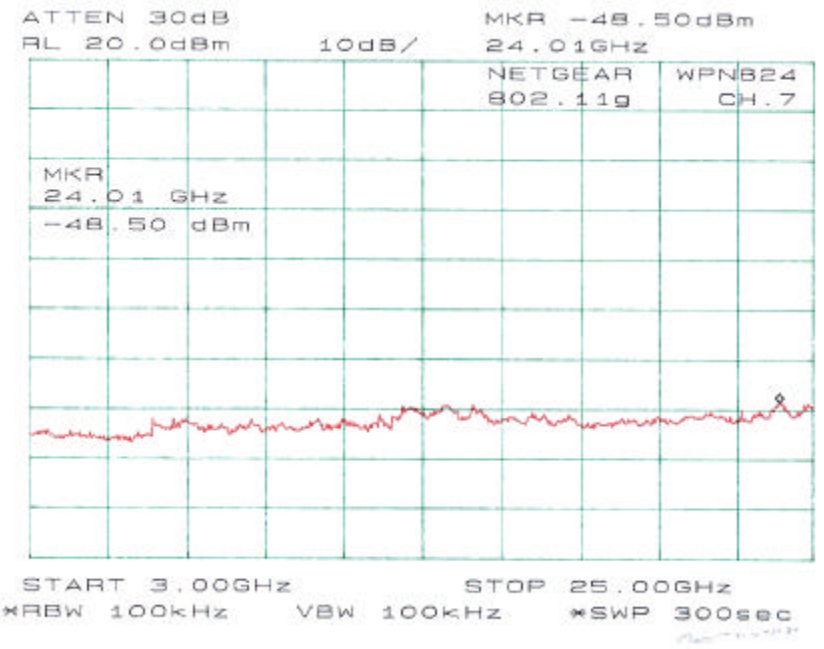
RL 20.0dBm
10dB/
ΔMKR -42.00dB
252MHz
NETGEAR WPN824
802.11g CH.7
ΔMKR
252 MHz
-42.00 dB
START 30MHz
STOP 3.000GHz
*RBW 100kHz
VBW 100kHz
*SWP 100sec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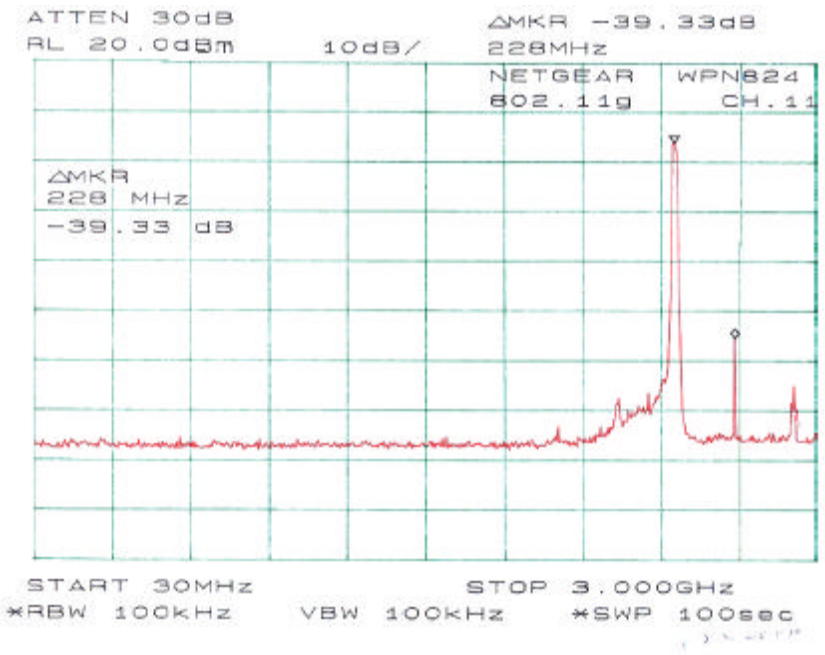
10dB/
MKR -48.50dBm
24.01GHz
NETGEAR WPN824
802.11g CH.7
MKR
24.01 GHz
-48.50 dBm
START 3.00GHz
STOP 25.00GHz
*RBW 100kHz
VBW 100kHz
*SWP 300sec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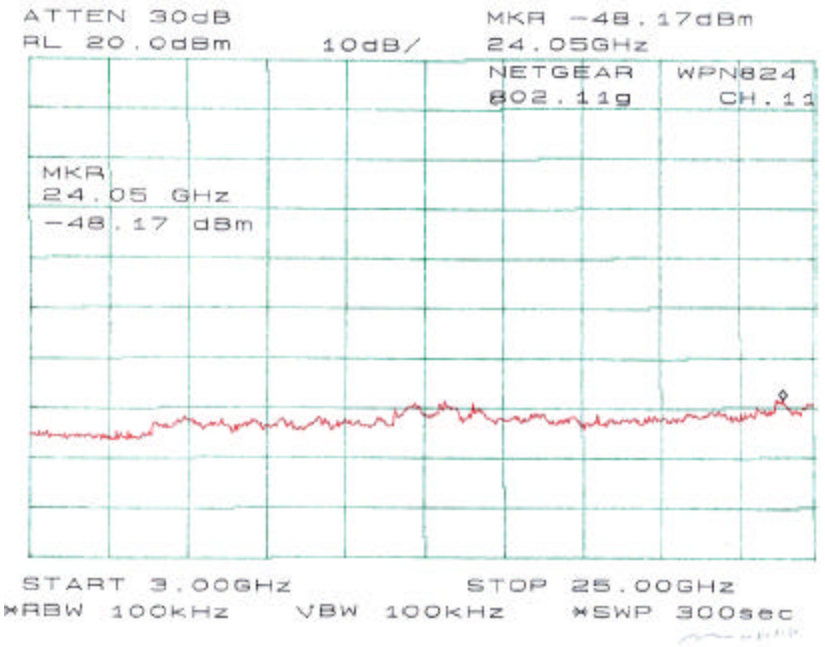
RL 20.0dBm
10dB/
ΔMKR -39.33dB
228MHz
NETGEAR WPN824
802.11g CH.11
ΔMKR
228 MHz
-39.33 dB
START 30MHz
STOP 3.000GHz
*RBW 100kHz
VBW 100kHz
*SWP 100sec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NETGEAR WPN824
802.11g CH.11
MKR
24.05 GHz
-48.17 dBm
START 3.00GHz
STOP 25.00GHz
*RBW 100kHz
VBW 100kHz
*SWP 300sec

§15.209 - SPURIOUS RADIATED EMISSION

Measurement Uncertainty

All measurements involve certain levels of uncertainties. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on NIS 81, The Treatment of Uncertainty in EMC Measurements, the best estimate of the uncertainty of a radiation emissions measurement at BACL is ±4.0 dB.

According to §15.205, except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

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 – 156.52525	2483.5 – 2500	17.7 – 21.4
8.37625 – 8.38675	156.7 – 156.9	2655 – 2900	22.01 – 23.12
8.41425 – 8.41475	162.0125 – 167.17	3260 – 3267	23.6 – 24.0
12.29 – 12.293	167.72 – 173.2	3332 – 3339	31.2 – 31.8
12.51975 – 12.57725	240 – 285	3345.8 – 3358	36.43 – 36.5
13.36 – 13.41	322 – 335.4	3600 – 4400	([2])

[1] Until February 1, 1999, this restricted band shall be 0.490-0.510MHz
[2] Above 38.6

Except as provided in paragraph (d) and (e), the filed 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 1000MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, 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.

According to §15.209, the device shall meet radiated emission general requirements.

Except for Class A device, the filed strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

Frequency of Emission (MHz)	Field Strength (Microvolts/meter)	(dBmV/meter)
30 - 88	100	40
88 - 216	150	43.5
216 - 960	200	46
Above 960	500	54

EUT Setup

The radiated emission tests were performed in the open area 3-meter test site, using the setup accordance with the ANSI C63.4-2003. The specification used was the FCC 15.209 limits.

The spacing between the peripherals was 10 centimeters.

External I/O cables were draped along the edge of the test table and bundle when necessary.

The EUT was connected to the power adapter which is connected with 120Vac/60Hz power source.

Spectrum Analyzer Setup

According to FCC Rules, 47 CFR, Section 15.33, the frequency was investigated from 30 to 25000 MHz.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

Frequency Range	***RBW***	***Video B/W***
Below 30MHz	10kHz	10kHz
30 – 1000MHz	100kHz	100kHz
Above 1000MHz	1MHz	1MHz

For Average measurement: RBW = 1MHz, VBW = 10Hz (above 1000MHz)

Test Equipment List and Details

Manufacturer	Description	Model	Serial Number	Cal. Date
HP	Amplifier, Pre, microwave	8449B	3147A00400	2004-03-14
HP	Amplifier, Pre	8447E	1937A01057	2004-08-04
HP	Analyzer, Spectrum	8565EC	3946A00131	2004-08-06
ETS	Antenna, Biconical	3110B	9603-2315	2004-12-14
A.R.A.	Antenna, Horn, DRG	DRG-118/A	1132	2004-09-30
A. H. Systems	Antenna, Horn, DRG	SAS-200/571	2455-261	2004-08-01
ETS	Antenna, logperiodic	3148	0004-1155	2004-10-11

* **Statement of Traceability:** BACL attests that all calibrations have been performed per the NVLAP requirements, traceable to NIST.

Test Procedure

For the radiated emissions test, the EUT, and all support equipment power cords was connected to the AC floor outlet.

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the peak detection mode. Quasi-peak readings performed only when an emission was found to be marginal (within -4 dBµV of specification limits), and are distinguished with a "**Qp**" in the data table.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Antenna Factor + Cable Factor - Amplifier Gain

The "**Margin**" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dBµV means the emission is 7dBµV below the maximum limit for Class B. The equation for margin calculation is as follows:

Margin = Corr. Ampl. - FCC 15.209 Limit

Summary of Test Results

According to the data hereinafter, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.207 and 15.247, and had the worst margin of:

Environmental Conditions

Temperature:	21° C
Relative Humidity:	37%
ATM Pressure:	1032 mbar

The testing was performed by Ming Jin on 2005-01-24.

802.11b:

-12.7 dB at **4824.00 MHz** in the **Vertical** polarization, Low Channel

-6.8 dB at **1104.00 MHz** in the **Vertical** polarization, Middle Channel

-6.6 dB at **2483.50 MHz** in the **Vertical** polarization, High Channel

-1.2 dB at **184.00 MHz** in the **Horizontal** polarization, High Channel

802.11g:

-19.2 dB at **4824.00 MHz** in the **Vertical** polarization, Low Channel

-19.4 dB at **4874.00 MHz** in the **Vertical** polarization, Middle Channel

-19.5 dB at **4924.00 MHz** in the **Vertical** polarization, High Channel

-1.2 dB at **184.00 MHz** in the **Horizontal** polarization, High Channel

Radiated Emission Test Result for 802.11b

Indicated			Table	Antenna		Correction Factor			Corrected Amplitude	FCC 15 Subpart C	
Frequency MHz	Ampl. dBµV/m	Comments	Angle Degree	Height Meter	Polar H/V	Antenna dB	Cable dB	Amp. dB	Corr. Ampl. dBµV/m	Limit dBµV/m	Margin dB
Low Channel, 1-25GHz											
2412.00	106.1	Fund/Peak	180	1.6	v	28.1	2.0	35.5	100.7		
2412.00	102.3	Fund/Peak	60	1.5	h	28.1	2.0	35.5	96.9		
2412.00	61.2	Fund/Ave.	120	1.5	v	28.1	2.0	35.5	55.8		
2412.00	58.1	Fund/Ave.	60	1.5	h	28.1	2.0	35.5	52.7		
4824.00	60.3	Peak	180	1.6	v	32.5	3.1	34.6	61.3	74	-12.7
1287.80	49.7	Ave.	110	1.5	v	24.5	1.3	35.5	40.0	54	-14.0
4824.00	37.8	Ave.	180	1.6	v	32.5	3.1	34.6	38.8	54	-15.2
4824.00	57.2	Peak	210	1.5	h	32.5	3.1	34.6	58.2	74	-15.8
1287.80	47.5	Ave.	180	1.5	h	24.5	1.3	35.5	37.8	54	-16.2
4824.00	34.6	Ave.	210	1.5	h	32.5	3.1	34.6	35.6	54	-18.4
2390.00	35.7	Ave.	45	1.6	v	28.1	2.0	35.5	30.3	54	-23.7
7236.00	46.7	Peak	0	1.5	v	34.1	3.4	34.5	49.7	74	-24.3
7236.00	45.6	Peak	150	1.2	h	34.1	3.4	34.5	48.6	74	-25.4
2390.00	53.8	Peak	45	1.6	v	28.1	2.0	35.5	48.4	74	-25.6
2390.00	33.6	Ave.	270	1.5	h	28.1	2.0	35.5	28.2	54	-25.8
7236.00	36.1	Ave.	0	1.5	v	34.1	3.4	34.5	39.1	65.2	-26.1
7236.00	34.9	Ave.	150	1.2	h	34.1	3.4	34.5	37.9	65.2	-27.3
2390.00	51.4	Peak	270	1.5	h	28.1	2.0	35.5	46.0	74	-28.0
1287.80	52.4	Peak	110	1.5	v	24.5	1.3	35.5	42.7	74	-31.3
1287.80	50.3	Peak	230	1.5	h	24.5	1.3	35.5	40.6	74	-33.4

Table Continued

Middle Channel, 1-25GHz											
2437.00	107.6	Fund/Peak	270	1.5	v	28.1	2.0	35.5	102.2		
2437.00	105.8	Fund/Peak	0	1.6	h	28.1	2.0	35.5	100.4		
2437.00	62.9	Fund/Ave.	270	1.5	v	28.1	2.0	35.5	57.5		
2437.00	60.7	Fund/Ave.	0	1.6	h	28.1	2.0	35.5	55.3		
1104.00	56.9	Ave.	30	1.5	v	24.5	1.3	35.5	47.2	54	-6.8
1104.00	56.7	Ave.	90	1.6	v	24.5	1.3	35.5	47.0	54	-7.0
4874.00	60.5	Peak	90	1.6	v	32.5	3.1	34.6	61.5	74	-12.5
4874.00	37.9	Ave.	90	1.6	v	32.5	3.1	34.6	38.9	54	-15.1
4874.00	57.2	Peak	120	1.5	h	32.5	3.1	34.6	58.2	74	-15.8
1380.08	47.5	Ave.	330	1.5	h	24.5	1.3	35.5	37.8	54	-16.2
1380.08	46.6	Ave.	90	1.6	h	24.5	1.3	35.5	36.9	54	-17.1
4874.00	34.8	Ave.	120	1.5	h	32.5	3.1	34.6	35.8	54	-18.2
1104.00	61.3	Peak	30	1.5	v	24.5	1.3	35.5	51.6	74	-22.4
1104.00	61.1	Peak	90	1.6	v	24.5	1.3	35.5	51.4	74	-22.6
7311.00	46.7	Peak	230	1.5	v	34.1	3.4	34.5	49.7	74	-24.3
7311.00	45.8	Peak	210	1.6	h	34.1	3.4	34.5	48.8	74	-25.2
7311.00	36.1	Ave.	230	1.5	v	34.1	3.4	34.5	39.1	65.2	-26.1
7311.00	35.2	Ave.	210	1.6	h	34.1	3.4	34.5	38.2	65.2	-27.0
1564.00	52.6	Peak	120	1.5	v	25.3	1.9	35.5	44.3	74	-29.7
1564.00	52.1	Peak	120	1.5	v	25.3	1.9	35.5	43.8	74	-30.2
1380.08	50.3	Peak	330	1.5	v	24.5	1.3	35.5	40.6	74	-33.4
1380.08	49.9	Peak	90	1.6	v	24.5	1.3	35.5	40.2	74	-33.8
High Channel, 1-25GHz											
2462.00	103.3	Fund/Peak	45	1.5	v	28.1	2.0	35.5	97.9		
2462.00	99.8	Fund/Peak	30	1.6	h	28.1	2.0	35.5	94.4		
2462.00	58.3	Fund/Ave.	45	1.5	v	28.1	2.0	35.5	52.9		
2462.00	54.7	Fund/Ave.	30	1.6	h	28.1	2.0	35.5	49.3		
2483.50	43.7	Ave.	270	1.2	v	34.4	3.5	34.2	47.4	54	-6.6
2483.50	43.1	Ave.	120	1.5	h	34.4	3.5	34.2	46.8	54	-7.2
1564.30	52.4	Peak	90	1.6	v	25.3	1.9	35.5	44.1	54	-9.9
4924.00	59.9	Peak	0	1.6	v	32.5	3.1	34.6	60.9	74	-13.1
2483.50	55.6	Peak	270	1.2	v	34.4	3.5	34.2	59.3	74	-14.7
2483.50	55.2	Peak	120	1.5	h	34.4	3.5	34.2	58.9	74	-15.1
7236.00	35.5	Ave.	90	1.5	v	34.1	3.4	34.5	38.5	54	-15.5
4924.00	37.3	Ave.	0	1.6	v	32.5	3.1	34.6	38.3	54	-15.7
4924.00	56.8	Peak	120	1.5	h	32.5	3.1	34.6	57.8	74	-16.2
7236.00	34.6	Ave.	210	1.6	h	34.1	3.4	34.5	37.6	54	-16.4
4924.00	34.2	Ave.	120	1.5	h	32.5	3.1	34.6	35.2	54	-18.8
7236.00	46.3	Peak	90	1.5	v	34.1	3.4	34.5	49.3	74	-24.7
7236.00	45.1	Peak	210	1.6	h	34.1	3.4	34.5	48.1	74	-25.9
1564.30	53.2	Peak	30	1.6	v	25.3	1.9	35.5	44.9	74	-29.1
1655.92	50.3	Peak	0	1.5	v	25.3	1.9	35.5	42.0	74	-32.0
1655.92	49.7	Peak	60	1.5	v	25.3	1.9	35.5	41.4	74	-32.6

Indicated			Table	Antenna		Correction Factor			FCC 15 Subpart B	
Frequency MHz	Ampl. dBµV/m	Direction Degree	Height Meter	Polar H/V	Antenna dB	Cable Loss dB	Amp. dB	Corr. Ampl. dBµV/m	Limit dBµV/m	Margin dB
184.00	55.7	230	1.6	h	13.4	2.1	28.9	42.3	43.5	-1.2
368.00	55.9	60	1.5	v	14.2	2.3	28.3	44.1	46	-1.9
736.00	52.9	310	1.5	v	15.9	3.1	28.1	43.8	46	-2.2
552.00	53.1	0	1.6	h	15.6	2.8	28.2	43.3	46	-2.7
61.04	43.2	90	1.5	v	9.4	1.3	28.2	25.7	40	-14.3
54.25	31.1	180	1.5	v	10.2	1.1	28.4	14.0	40	-26.0

FUND = Fundamental
AVG = average

Radiated Emission Test Result for 802.11g

Indicated			Table	Antenna		Correction Factor			Corrected Amplitude	FCC 15 Subpart C	
Frequency MHz	Ampl. dBμV/m	Comments	Angle Degree	Height Meter	Polar H/V	Antenna dB	Cable dB	Amp. dB	Corr. Ampl. dBμV/m	Limit dBμV/m	Margin dB
Low Channel, 1-25GHz											
2412.00	106.2	Fund/Peak	120	1.5	v	28.1	2.0	35.5	100.8		
2412.00	102.5	Fund/Peak	70	1.2	h	28.1	2.0	35.5	97.1		
2412.00	61.4	Fund/Ave.	120	1.5	v	28.1	2.0	35.5	56.0		
2412.00	58.2	Fund/Ave.	70	1.2	h	28.1	2.0	35.5	52.8		
4824.00	60.5	Peak	210	1.6	v	32.5	3.1	34.6	61.5	74	-12.5
4824.00	37.9	Ave.	210	1.6	v	32.5	3.1	34.6	38.9	54	-15.1
1287.80	48.5	Ave.	270	1.5	v	24.5	1.3	35.5	38.8	54	-15.2
4824.00	57.4	Peak	230	1.5	h	32.5	3.1	34.6	58.4	74	-15.6
1287.80	46.7	Ave.	180	1.5	h	24.5	1.3	35.5	37.0	54	-17.0
4824.00	34.8	Ave.	230	1.5	h	32.5	3.1	34.6	35.8	54	-18.2
2390.00	35.9	Ave.	0	1.6	v	28.1	2.0	35.5	30.5	54	-23.5
7236.00	46.9	Peak	180	1.5	v	34.1	3.4	34.5	49.9	74	-24.1
7236.00	45.8	Peak	150	1.2	h	34.1	3.4	34.5	48.8	74	-25.2
2390.00	33.8	Ave.	290	1.5	h	28.1	2.0	35.5	28.4	54	-25.6
7236.00	36.2	Ave.	180	1.5	v	34.1	3.4	34.5	39.2	65.2	-26.0
7236.00	35.1	Ave.	150	1.2	h	34.1	3.4	34.5	38.1	65.2	-27.1
2390.00	51.3	Peak	0	1.6	v	28.1	2.0	35.5	45.9	74	-28.1
2390.00	49.7	Peak	290	1.5	h	28.1	2.0	35.5	44.3	74	-29.7
1287.80	51.3	Peak	270	1.5	v	24.5	1.3	35.5	41.6	74	-32.4
1287.80	49.2	Peak	230	1.5	h	24.5	1.3	35.5	39.5	74	-34.5

Middle Channel, 1-25GHz											
2437.00	110.5	Fund/Peak	180	1.8	v	28.1	2.0	35.5	105.1		
2437.00	108.6	Fund/Peak	270	1.6	h	28.1	2.0	35.5	103.2		
2437.00	65.7	Fund/Ave.	180	1.8	v	28.1	2.0	35.5	60.3		
2437.00	63.5	Fund/Ave.	270	1.6	h	28.1	2.0	35.5	58.1		
1104.00	57.2	Ave.	30	1.5	v	24.5	1.3	35.5	47.5	54	-6.5
1104.00	56.8	Ave.	90	1.6	v	24.5	1.3	35.5	47.1	54	-6.9
4874.00	60.8	Peak	90	1.6	v	32.5	3.1	34.6	61.8	74	-12.2
4874.00	38.4	Ave.	90	1.6	v	32.5	3.1	34.6	39.4	54	-14.6
4874.00	57.7	Peak	120	1.5	h	32.5	3.1	34.6	58.7	74	-15.3
1380.08	47.3	Ave.	0	1.6	v	24.5	1.3	35.5	37.6	54	-16.4
1380.08	46.5	Ave.	90	1.6	v	24.5	1.3	35.5	36.8	54	-17.2
4874.00	35.3	Ave.	120	1.5	h	32.5	3.1	34.6	36.3	54	-17.7
1104.00	61.4	Peak	30	1.5	v	24.5	1.3	35.5	51.7	74	-22.3
1104.00	61.2	Peak	90	1.6	v	24.5	1.3	35.5	51.5	74	-22.5
7311.00	47.2	Peak	180	1.5	v	34.1	3.4	34.5	50.2	74	-23.8
7311.00	46.1	Peak	210	1.8	h	34.1	3.4	34.5	49.1	74	-24.9
7311.00	36.5	Ave.	180	1.5	v	34.1	3.4	34.5	39.5	65.2	-25.7
7311.00	35.4	Ave.	210	1.8	h	34.1	3.4	34.5	38.4	65.2	-26.8
1564.00	52.6	Peak	120	1.5	v	25.3	1.9	35.5	44.3	74	-29.7
1564.00	52.1	Peak	120	1.5	v	25.3	1.9	35.5	43.8	74	-30.2
1380.08	50.1	Peak	0	1.6	v	24.5	1.3	35.5	40.4	74	-33.6
1380.08	49.8	Peak	90	1.6	v	24.5	1.3	35.5	40.1	74	-33.9

High Channel, 1-25GHz											
2462.00	105.7	Fund/Peak	0	1.5	v	28.1	2.0	35.5	100.3		
2462.00	102.1	Fund/Peak	30	1.6	h	28.1	2.0	35.5	96.7		
2462.00	61.2	Fund/Ave.	0	1.5	v	28.1	2.0	35.5	55.8		
2462.00	57.9	Fund/Ave.	30	1.6	h	28.1	2.0	35.5	52.5		
2483.50	46.3	Ave.	45	1.6	v	34.4	3.5	34.2	50.0	54	-4.0
2483.50	44.7	Ave.	120	1.5	h	34.4	3.5	34.2	48.4	54	-5.6
1564.30	52.6	Peak	90	1.6	v	25.3	1.9	35.5	44.3	54	-9.7
2483.50	59.2	Peak	45	1.6	v	34.4	3.5	34.2	62.9	74	-11.1
2483.50	58.8	Peak	120	1.5	h	34.4	3.5	34.2	62.5	74	-11.5
4924.00	60.2	Peak	90	1.6	v	32.5	3.1	34.6	61.2	74	-12.8
4924.00	37.6	Ave.	90	1.6	v	32.5	3.1	34.6	38.6	54	-15.4
4924.00	57.1	Peak	120	1.5	h	32.5	3.1	34.6	58.1	74	-15.9
4924.00	34.5	Ave.	120	1.5	h	32.5	3.1	34.6	35.5	54	-18.5
7236.00	46.6	Peak	180	1.5	v	34.1	3.4	34.5	49.6	74	-24.4
7236.00	45.4	Peak	210	1.8	h	34.1	3.4	34.5	48.4	74	-25.6
7236.00	35.9	Ave.	180	1.5	v	34.1	3.4	34.5	38.9	65.2	-26.3
7236.00	34.8	Ave.	210	1.8	h	34.1	3.4	34.5	37.8	65.2	-27.4
1564.30	53.5	Peak	30	1.6	v	25.3	1.9	35.5	45.2	74	-28.8
1655.92	50.6	Peak	0	1.5	v	25.3	1.9	35.5	42.3	74	-31.7
1655.92	49.9	Peak	60	1.5	v	25.3	1.9	35.5	41.6	74	-32.4

Indicated			Table	Antenna		Correction Factor			FCC 15 Subpart B	
Frequency	Ampl.	Direction	Height	Polar	Antenna	Cable Loss	Amp.	Corr. Ampl.	Limit	Margin
MHz	dBµV/m	Degree	Meter	H/V	dB	dB	dB	dBµV/m	dBµV/m	dB
184.00	55.7	230	1.6	h	13.4	2.1	28.9	42.3	43.5	-1.2
368.00	55.9	60	1.5	v	14.2	2.3	28.3	44.1	46	-1.9
736.00	52.9	310	1.5	v	15.9	3.1	28.1	43.8	46	-2.2
552.00	53.1	0	1.6	h	15.6	2.8	28.2	43.3	46	-2.7
61.04	43.2	90	1.5	v	9.4	1.3	28.2	25.7	40	-14.3
54.25	31.1	180	1.5	v	10.2	1.1	28.4	14.0	40	-26.0

FUND = Fundamental
AVG = average

§15.247(a)(2) – 6 dB BANDWIDTH

Standard Applicable

According to §15.247(a)(2), for digital modulation techniques, the minimum 6dB bandwidth shall be at least 500 kHz.

Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
3. Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth. (6 dB bandwidth for DTS)
4. Repeat above procedures until all frequencies measured were complete.

Equipment Lists

Manufacturer	Model No.	Description	Calibration Date
HP	8565EC	Spectrum Analyzer	2004-08-06

*** Statement of Traceability: BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

Measurement Result

Environmental Conditions

Temperature:	21° C
Relative Humidity:	37%
ATM Pressure:	1032 mbar

The testing was performed by Ming Jin on 2005-01-24.

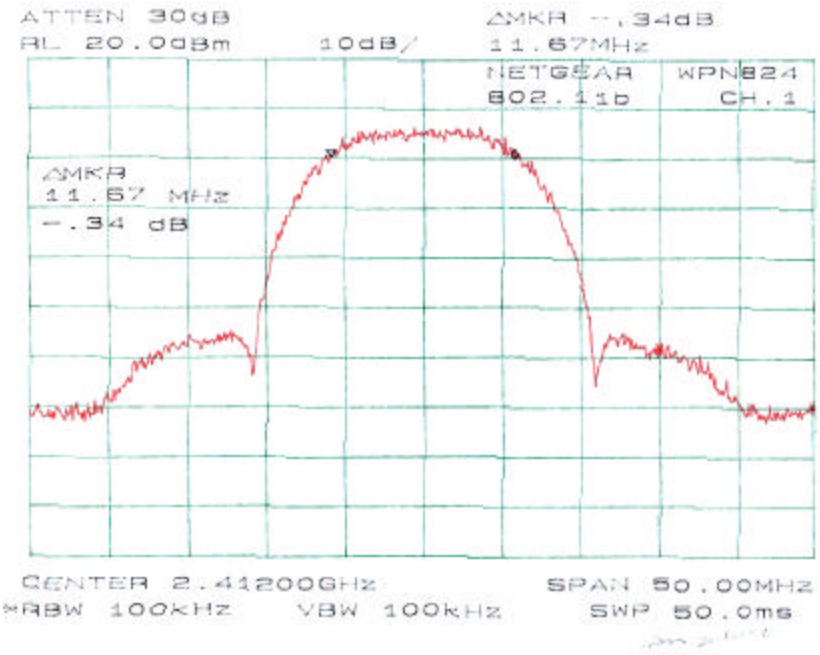
Test Result

802.11b

Channel	Frequency (MHz)	Measured (MHz)	Standard (kHz)	Result
Low	2412	11.67	≥ 500	Pass
Mid	2437	11.83	≥ 500	Pass
High	2462	11.83	≥ 500	Pass

802.11g

Channel	Frequency (MHz)	Measured (MHz)	Standard (kHz)	Result
Low	2412	16.67	≥ 500	Pass
Mid	2437	16.67	≥ 500	Pass
High	2462	16.75	≥ 500	Pass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10dB/
ΔMKR -.34dB
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802.11b CH.1
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-.34 dB
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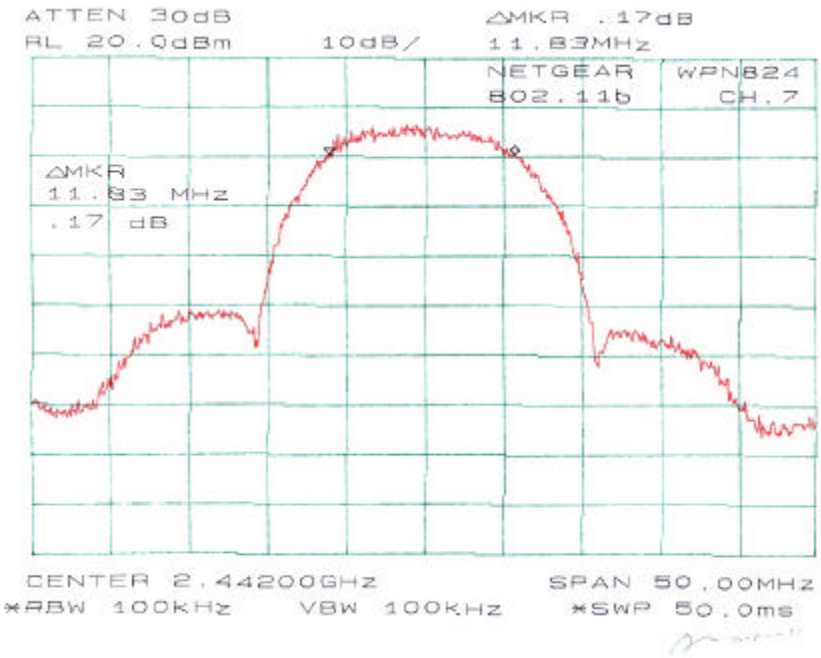
*RBW 100kHz
VBW 100kHz
SWP 50.0ms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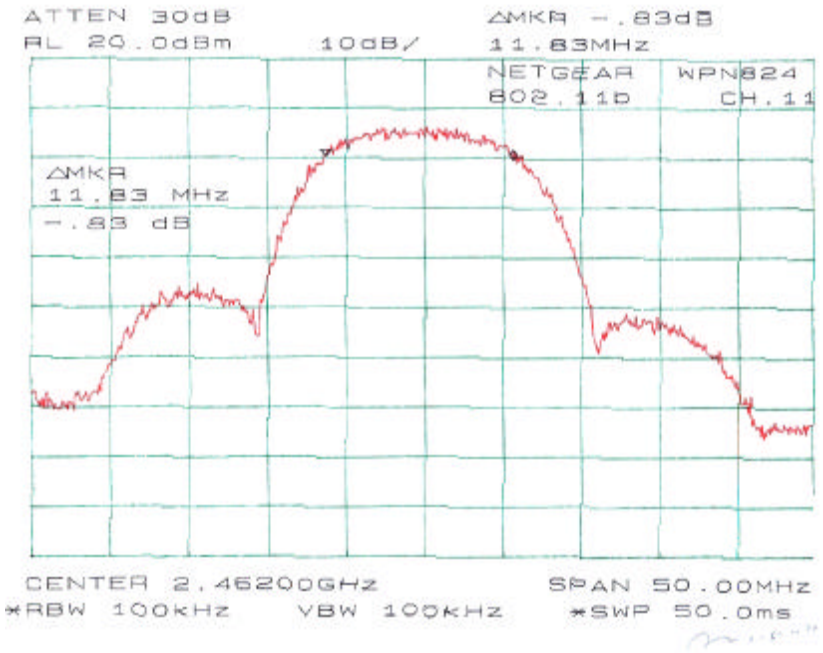
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10dB/
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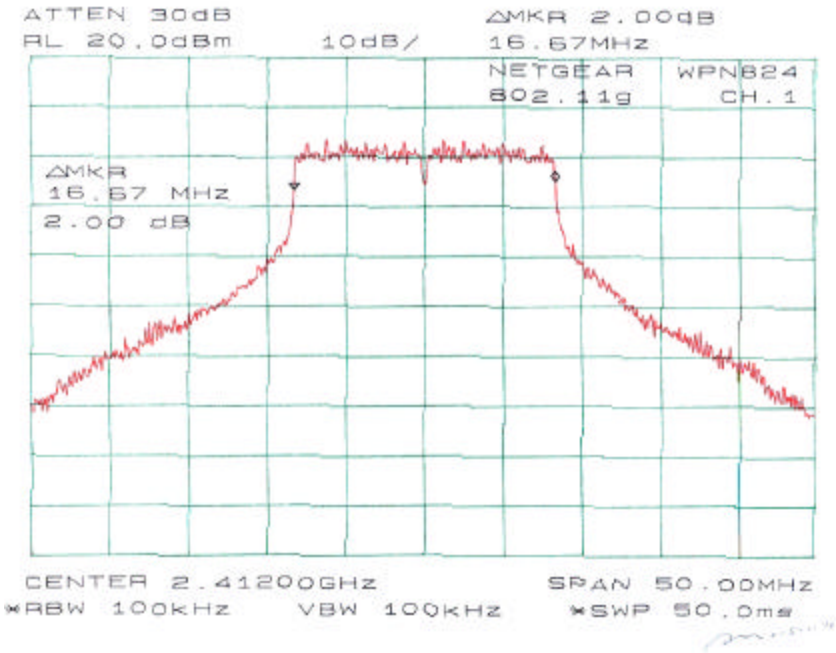
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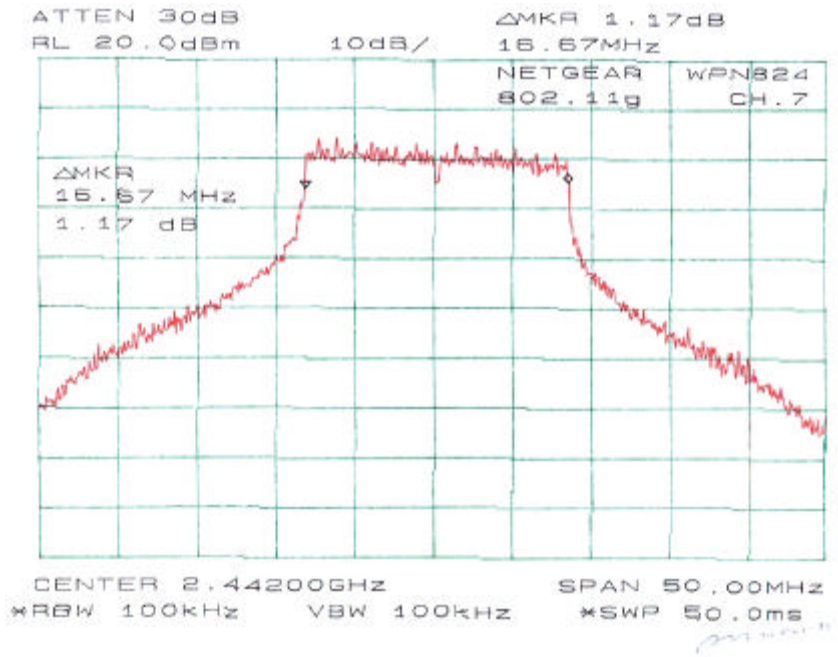
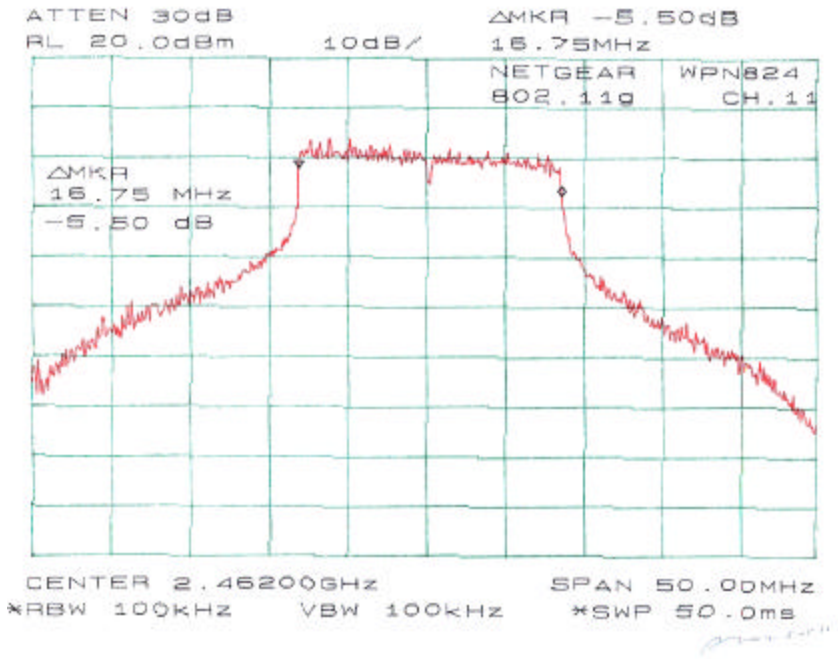
RL 20.0dBm
10dB/
ΔMKR 2.00dB
16.67MHz
NETGEAR WPN824
802.11g CH.1
ΔMKR
16.67 MHz
2.00 dB
CENTER 2.412000GHz
SPAN 50.00MHz
*RBW 100kHz
VBW 100kHz
*SWP 50.0ms


ATTEN 30dB
RL 20.0dBm
10dB/
ΔMKR 1.17dB
16.67MHz
NETGEAR WPN824
802.11g CH.7
ΔMKR
16.67 MHz
1.17 dB
CENTER 2.44200GHz
SPAN 50.00MHz
*RBW 100kHz
VBW 100kHz
*SWP 50.0ms


ATTEN 30dB
RL 20.0dBm
10dB/
ΔMKR -5.50dB
16.75MHz
NETGEAR WPN824
802.11g CH.11
ΔMKR
16.75 MHz
-5.50 dB
CENTER 2.46200GHz
SPAN 50.00MHz
*RBW 100kHz
VBW 100kHz
*SWP 50.0ms

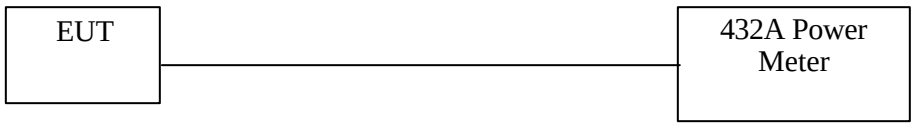
§15.247(b)(3) - PEAK OUTPUT POWER MEASUREMENT

Standard Applicable

According to §15.247(b) (3), for systems using digital modulation in 2400-2483.5 MHz: 1 Watt

Measurement Procedure

1. Place the EUT on a bench and set it in transmitting mode.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to a power meter.
3. Add a correction factor to the display.



Equipment Lists

Manufacturer	Model No.	Description	Calibration Date
HP	432A	Peak Power Meter	2004-09-26

*** Statement of Traceability: BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

Measurement Result

Environmental Conditions

Temperature:	21° C
Relative Humidity:	37%
ATM Pressure:	1032 mbar

The testing was performed by Ming Jin on 2005-01-24.

Output Power

802.11b

CH.	Frequency MHz	RF Power dBm	RF Power W	Limit W
Low	2412	19.6	0.091	1W (30dBm)
Mid	2437	19.3	0.085	1W (30dBm)
High	2462	19.2	0.083	1W (30dBm)

802.11g

CH.	Frequency MHz	RF Power dBm	RF Power mW	Limit W
Low	2412	15.4	0.035	1W (30dBm)
Mid	2437	19.3	0.085	1W (30dBm)
High	2462	15.5	0.035	1W (30dBm)

§15.247(c) - 100 KHZ BANDWIDTH OF BAND EDGES

Standard Applicable

According to §15.247(c), in *any* 100 kHz bandwidth outside the frequency bands in which the spread spectrum 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. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) see §15.205(c)).

Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

Equipment Lists

Manufacturer	Model No.	Description	Calibration Date
Agilent	8564E	Spectrum Analyzer	2004-10-04

*** Statement of Traceability: BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

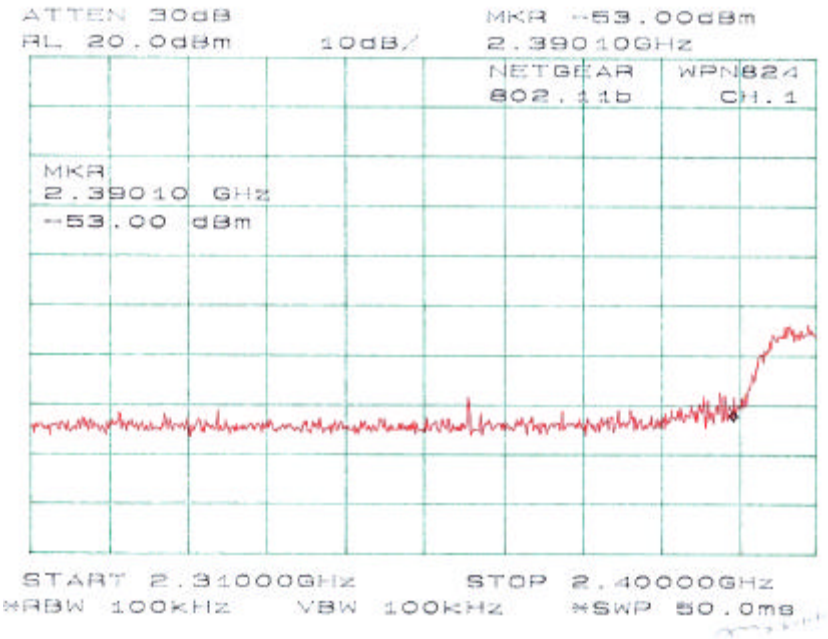
Measure Results

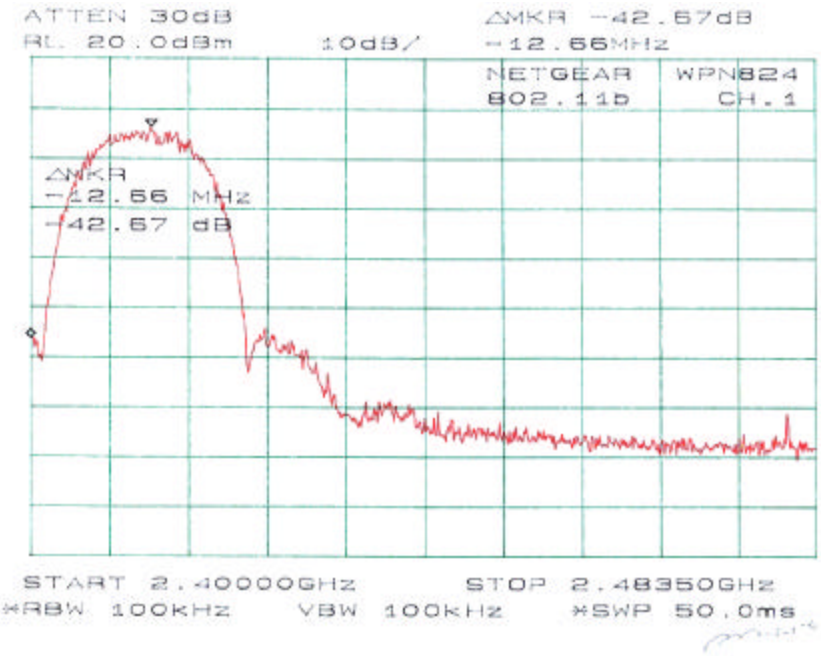
Environmental Conditions

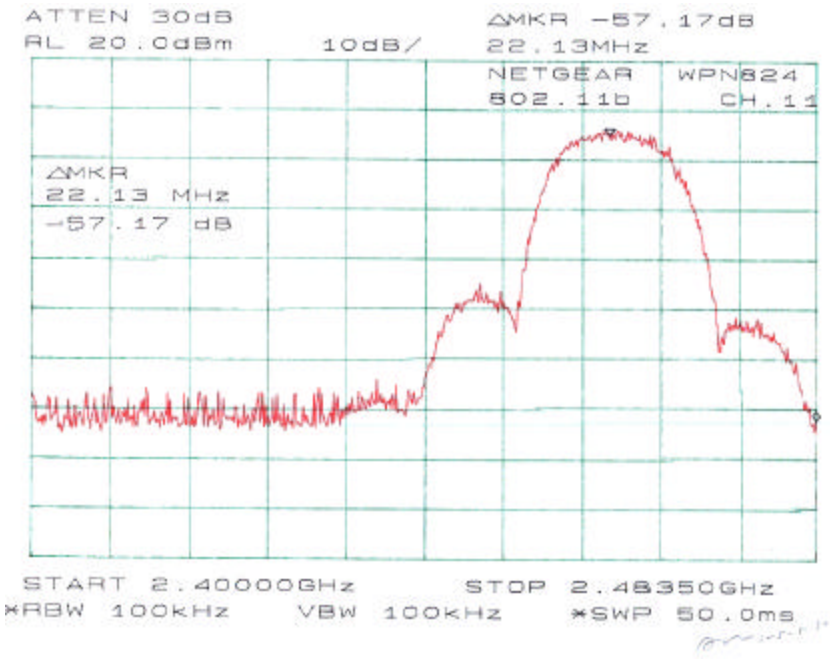
Temperature:	21° C
Relative Humidity:	37%
ATM Pressure:	1032 mbar

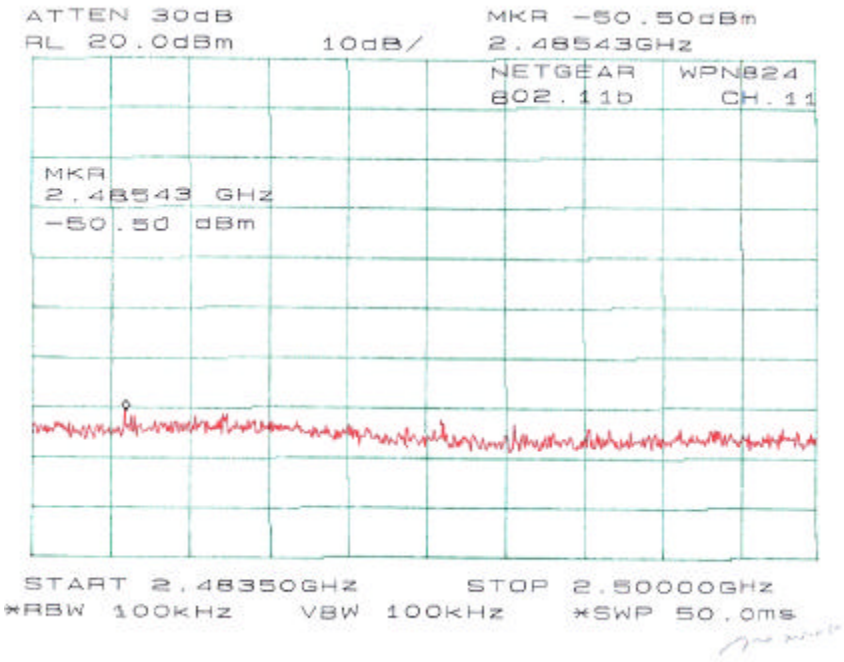
The testing was performed by Ming Jin on 2005-01-24.

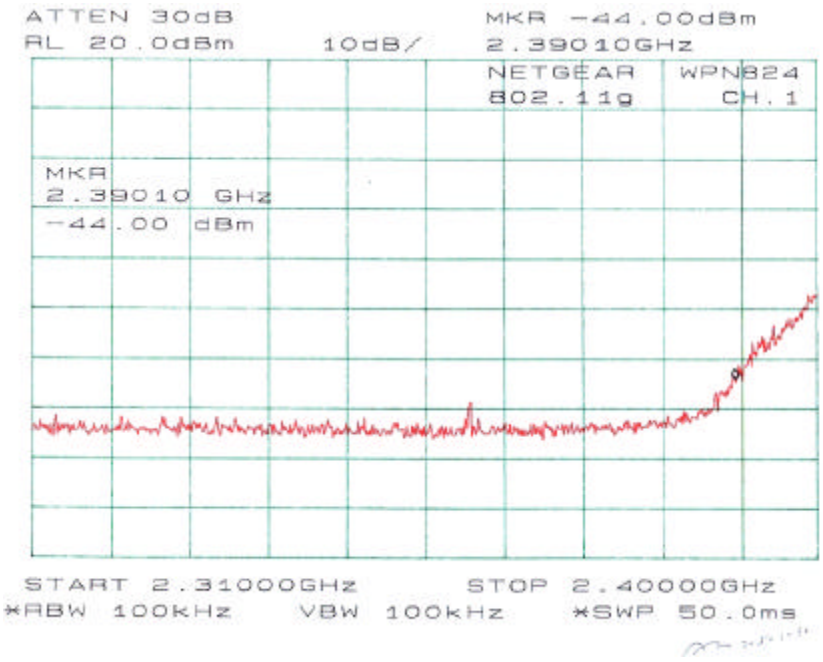
Please refer to following pages for plots of band edge.

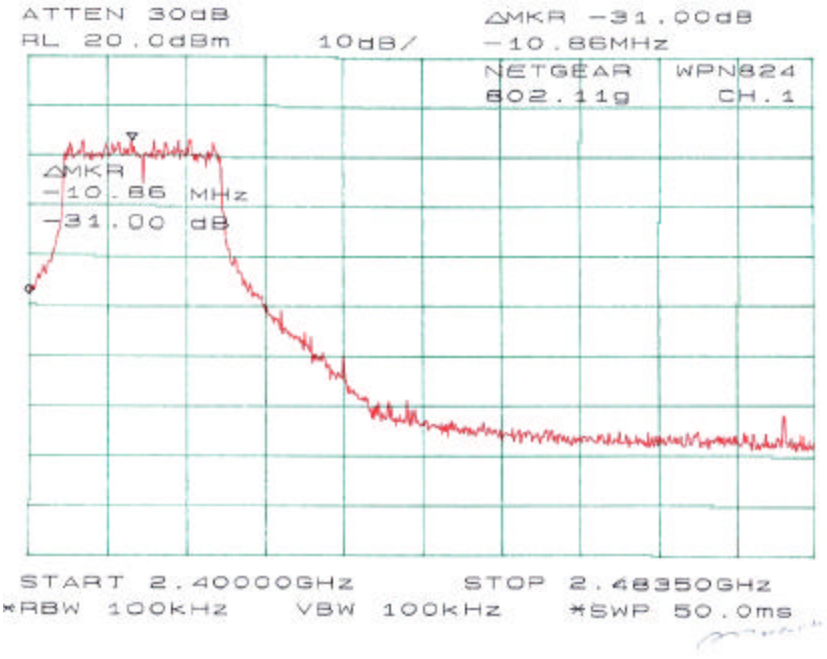

ATTEN 30dB
RL 20.0dBm
10dB/
MKR -53.00dBm
2.39010GHz
NETGEAR WPN824
802.11b CH.1
MKR
2.39010 GHz
-53.00 dBm
START 2.31000GHz
STOP 2.40000GHz
*RBW 100KHz
VBW 100KHz
*SWP 50.0ms

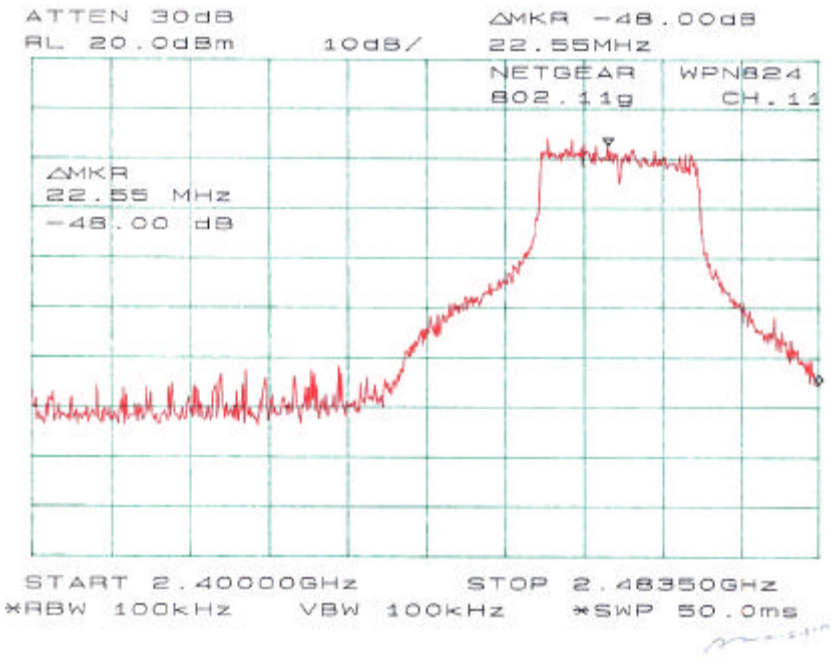

ATTEN 30dB
RL 20.0dBm
10dB/
ΔMKR -42.67dB
-12.66MHz
NETGEAR WPN824
802.11b CH.1
ΔMKR
-12.66 MHz
-42.67 dB
START 2.40000GHz
STOP 2.48350GHz
*RBW 100KHz
VBW 100KHz
*SWP 50.0ms

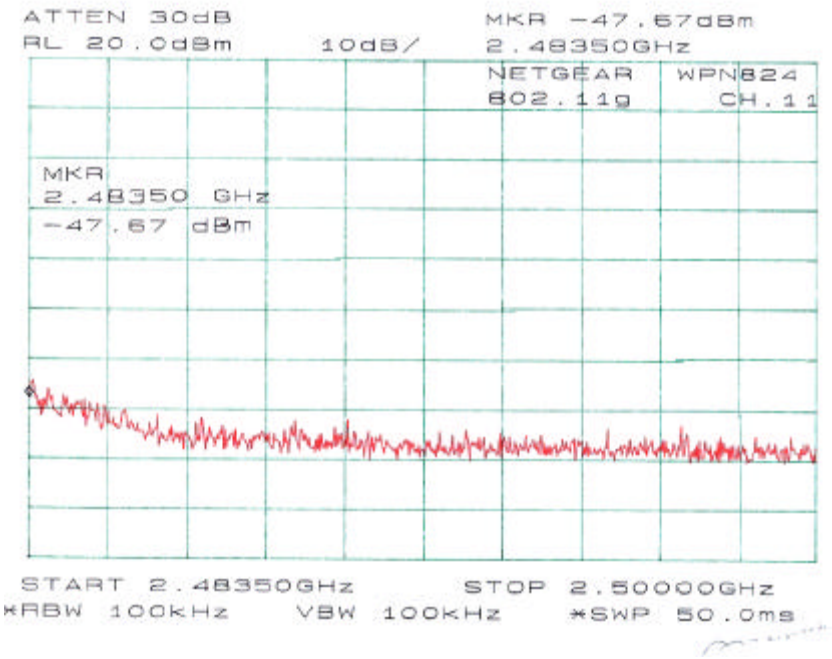

ATTEN 30dB
RL 20.0dBm
10dB/
ΔMKR -57.17dB
22.13MHz
NETGEAR WPN824
802.11b CH.11
ΔMKR
22.13 MHz
-57.17 dB
START 2.40000GHz
STOP 2.48350GHz
*RBW 100kHz
VBW 100kHz
*SWP 50.0ms


ATTEN 30dB
RL 20.0dBm
10dB/
MKR -50.50dBm
2.48543GHz
NETGEAR WPN824
802.11b CH.11
MKR
2.48543 GHz
-50.50 dBm
START 2.48350GHz
STOP 2.50000GHz
*RBW 100kHz
VBW 100kHz
*SWP 50.0ms


ATTEN 30dB
RL 20.0dBm
10dB/
MKR -44.00dBm
2.39010GHz
NETGEAR WPN824
802.11g CH.1
MKR
2.39010 GHz
-44.00 dBm
START 2.31000GHz
STOP 2.40000GHz
*RBW 100kHz
VBW 100kHz
*SWP 50.0ms


ATTEN 30dB
RL 20.0dBm
10dB/
ΔMKR -31.00dB
-10.86MHz
NETGEAR WPN824
802.11g CH.1
ΔMKR
-10.86 MHz
-31.00 dB
START 2.40000GHz
STOP 2.48350GHz
*RBW 100kHz
VBW 100kHz
*SWP 50.0ms


ATTEN 30dB
RL 20.0dBm
10dB/
ΔMKR -48.00dB
22.55MHz
NETGEAR WPN824
802.11g CH.11
ΔMKR
22.55 MHz
-48.00 dB
START 2.40000GHz
STOP 2.48350GHz
*RBW 100kHz
VBW 100kHz
*SWP 50.0ms


ATTEN 30dB
RL 20.0dBm
10dB/
MKR -47.67dBm
2.48350GHz
NETGEAR WPN824
802.11g CH.11
MKR
2.48350 GHz
-47.67 dBm
START 2.48350GHz
STOP 2.50000GHz
*RBW 100kHz
VBW 100kHz
*SWP 50.0ms

§15.247(d) - POWER SPECTRAL DENSITY

Standard Applicable

According to §15.247 (d), for direct sequence systems, the peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

Measurement Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT was set without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
3. Adjust the center frequency of SA on any frequency be measured and set SA to 1MHz span mode. And then, set RBW and VBW of spectrum analyzer to proper value. (DTS)
4. Repeat above procedures until all frequencies measured were complete.

Equipment Lists

Manufacturer	Model No.	Description	Calibration Date
Agilent	8564E	Spectrum Analyzer	2004-10-04

*** Statement of Traceability: BACL Corp.** attests that all calibrations have been performed per the NVLAP requirements, traceable to the NIST.

Measurement Results

Environmental Conditions

Temperature:	21° C
Relative Humidity:	37%
ATM Pressure:	1032 mbar

The testing was performed by Ming Jin on 2005-01-24.

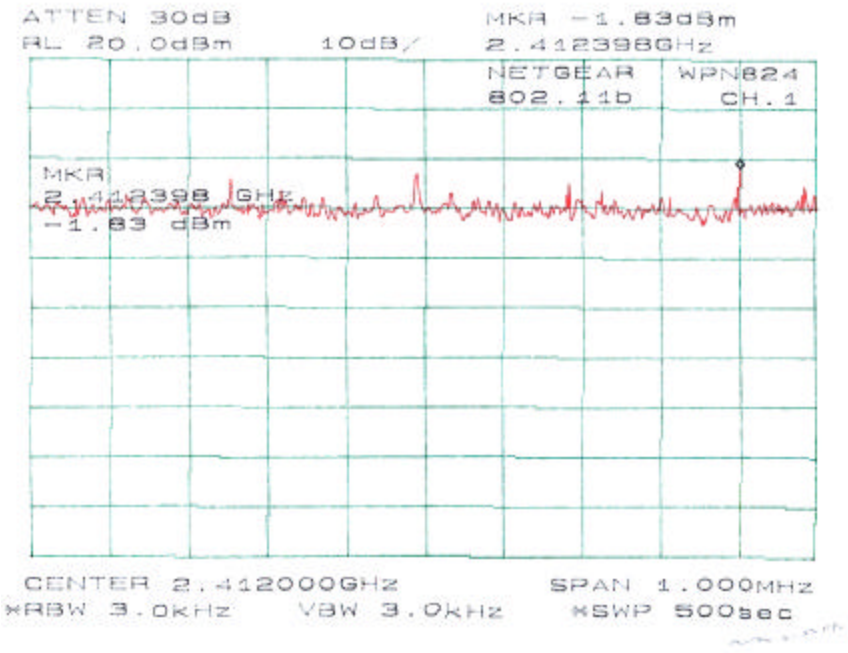
Test Result

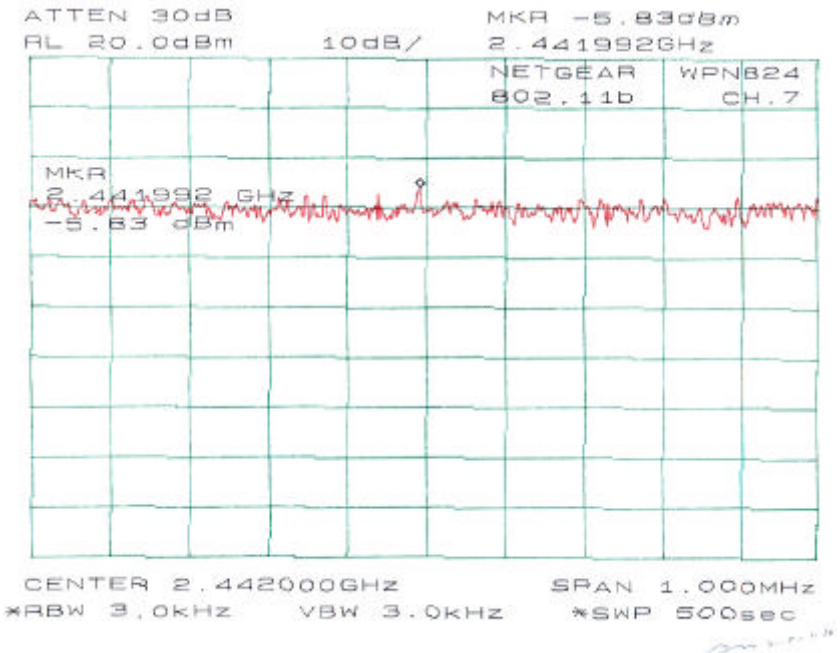
802.11b

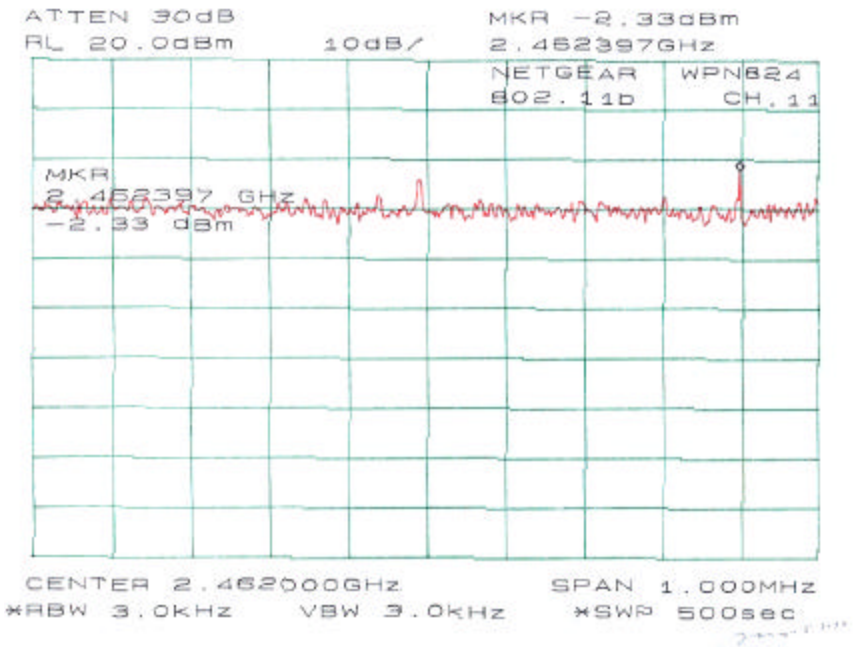
Channel	Frequency (MHz)	Peak Power Spectral Density (dBm)	Standard (dBm)	Result
Low	2412	-1.83	≤ 8	Pass
Mid	2437	-5.83	≤ 8	Pass
High	2462	-2.33	≤ 8	Pass

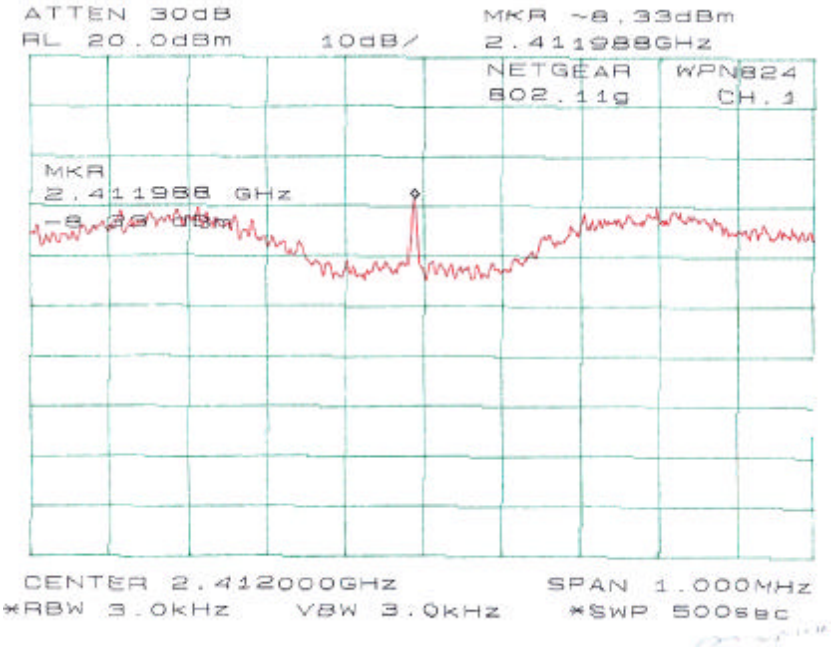
802.11g

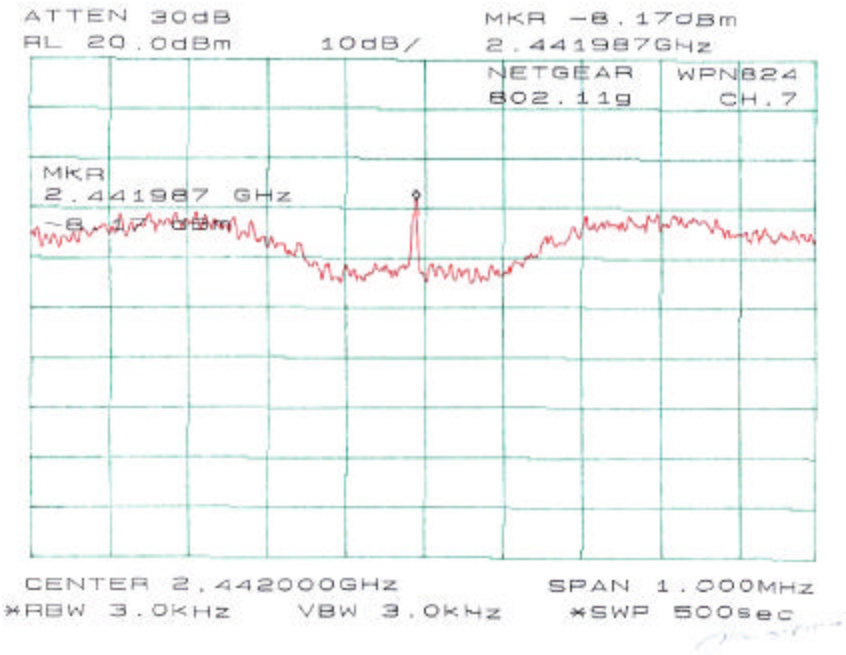
Channel	Frequency (MHz)	Peak Power Spectral Density (dBm)	Standard (dBm)	Result
Low	2412	-8.33	≤ 8	Pass
Mid	2437	-8.17	≤ 8	Pass
High	2462	-8.50	≤ 8	Pass

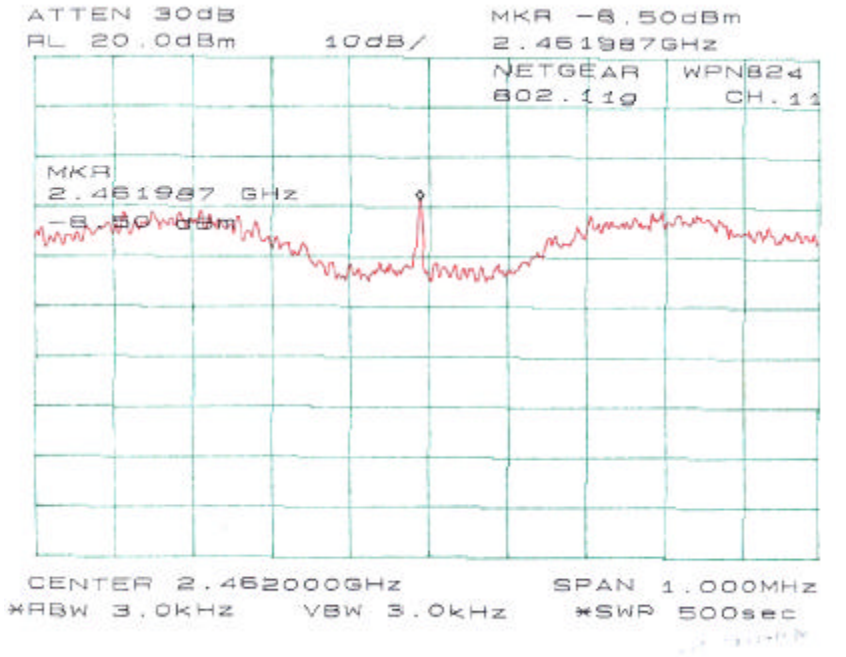

ATTEN 30dB
RL 20.0dBm
10dB/
MKR -1.83dBm
2.412398GHz
NETGEAR WPN824
802.11b CH.1
MKR
2.412398 GHz
-1.83 dBm
CENTER 2.412000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
*SWP 500sec


ATTEN 30dB
RL 20.0dBm
10dB/
MKR -5.83dBm
2.441992GHz
NETGEAR WPN824
802.11b CH.7
MKR
2.441992 GHz
-5.83 dBm
CENTER 2.442000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
*SWP 500sec


ATTEN 30dB
RL 20.0dBm
10dB/
MKR -2.33dBm
2.462397GHz
NETGEAR WPN824
802.11b CH.11
MKR
2.462397 GHz
-2.33 dBm
CENTER 2.462000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
*SWP 500sec


ATTEN 30dB
RL 20.0dBm
10dB/
MKR -8.33dBm
2.411988GHz
NETGEAR WPN824
802.11g CH.1
MKR
2.411988 GHz
CENTER 2.412000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
*SWP 500sec


ATTEN 30dB
RL 20.0dBm
10dB/
MKR -8.17dBm
2.441987GHz
NETGEAR
802.11g
WPN824
CH.7
MKR
2.441987 GHz
CENTER 2.442000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
*SWP 500sec


ATTEN 30dB
RL 20.0dBm
10dB/
MKR -8.50dBm
2.461987GHz
NETGEAR
802.11g
WPN824
CH.11
MKR
2.461987 GHz
CENTER 2.462000GHz
SPAN 1.000MHz
*RBW 3.0kHz
VBW 3.0kHz
*SWP 500sec