

FCC CFR47 PART 15 SUBPART C CLASS II PERMISSIVE CHANGE INDUSTRY CANADA RSS-GEN AND RSS-210 TEST REPORT FOR

Broadcom 802.11g Wireless LAN PCI-E Mini Card

MODEL NUMBER: BCM94311MCG

FCC ID: QDS-BRCM1020 IC #: 4324A-BRCM1020

REPORT NUMBER: 07U11209-1B

ISSUE DATE: August 23, 2007

Prepared for

BROADCOM CORPORATION 190 MATHILDA PLACE SUNNYVALE, CA 94086, U.S.A.

Prepared by

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REPORT NO: 07U11209-1 FCC ID: QDS-BRCM1020

Revision History

DATE: August 17, 2007

IC #: 4324A-BRCM1020

| Rev. | Issue Date | Revisions | Revised By |
|------|-----------------|---------------------------------------|--------------|
| | August 17, 2007 | Initial Issue | Hsin Fu Shih |
| В | August 23, 2007 | Replaced incorrect plot in page 22/33 | Hsin Fu Shih |

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1. ATTESTATION OF TEST RESULTS

COMPANY NAME: BROADCOM CORPORATION

190 MATHILDA PLACE

SUNNYVALE, CA, 94086, U.S.A.

EUT DESCRIPTION: Broadcom 802.11g Wireless LAN PCI-E Mini Card

MODEL: BCM94311MCG

SERIAL NUMBER: TWJ5370082

DATE TESTED: July 26 - 27, 2007

APPLICABLE STANDARDS

STANDARD TEST RESULTS

FCC PART 15 SUBPART C NO NON-COMPLIANCE NOTED

IC RSS-210 ISSUE 7 ANNEX 8 NO NON-COMPLIANCE NOTED

IC RSS-210 ISSUE 7 ANNEX 9 NO NON-COMPLIANCE NOTED

Compliance Certification Services, Inc. tested the above equipment in accordance with the requirements set forth in the above standards. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

Note: The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by Compliance Certification Services and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by Compliance Certification Services will constitute fraud and shall nullify the document. No part of this report may be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any government agency.

Tested By: Approved & Released For CCS By:

HSIN FU SHIH ENGINEERING SUPERVISOR COMPLIANCE CERTIFICATION SERVICES

Hoin-Fu Shih

KEITH NG EMC ENGINEER

COMPLIANCE CERTIFICATION SERVICES

REPORT NO: 07U11209-1 DATE: August 17, 2007 FCC ID: QDS-BRCM1020 IC #: 4324A-BRCM1020

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003, FCC CFR 47 Part 2 FCC CFR 47 Part 15, RSS-GEN, RSS-210, RSS-212, and ANSI C63.4-200.

3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA. The sites are constructed in conformance with the requirements of ANSI C63.4, ANSI C63.7 and CISPR Publication 22. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at http://www.ccsemc.com.

4. CALIBRATION AND UNCERTAINTY

4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| PARAMETER | UNCERTAINTY |
|-------------------------------------|----------------|
| Radiated Emission, 30 to 200 MHz | +/- 3.3 dB |
| Radiated Emission, 200 to 1000 MHz | +4.5 / -2.9 dB |
| Radiated Emission, 1000 to 2000 MHz | +4.5 / -2.9 dB |
| Power Line Conducted Emission | +/- 2.9 dB |

Uncertainty figures are valid to a confidence level of 95%.

5. EQUIPMENT UNDER TEST

5.1. DESCRIPTION OF EUT

The EUT is an 802.11b/g transceiver operating in the 2400-2484 MHz band. The radio utilizes a dipole antenna, with a maximum gain of 3.57dBi.

The radio module is manufactured by Broadcom Corp.

5.2. DESCRIPTION OF CLASS II PERMISSIVE CHANGE

Add additional antenna: Foxconn, dipole antenna, Peak gain: 3.57 dBi

5.3. DESCRIPTION OF AVAILABLE ANTENNAS

The radio utilizes a Foxconn dipole antenna with a peak gain of 3.57 dBi.

5.4. SOFTWARE AND FIRMWARE

The EUT driver software installed in the host support equipment during testing was BCM94311, version. 3.100.53.0

The test utility software used during testing was wl tools.

5.5. WORST-CASE CONFIGURATION AND MODE

The worst-case data rate for these channels are determined to be 1 Mb/s for 11b mode and 6 Mb/s for 11g mode, based on previous experience with WLAN product design architectures.

Thus all emissions tests were made in the 802.11b mode @ 1 Mb/s, and 802.11g mode @ 6 Mb/s.

DATE: August 17, 2007

IC #: 4324A-BRCM1020

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5.6. DESCRIPTION OF TEST SETUP

SUPPORT EQUIPMENT

| PERIPHERAL SUPPORT EQUIPMENT LIST | | | | | | | | |
|-----------------------------------|--------------|---------------------|--------------------------|--------|--|--|--|--|
| Description | Manufacturer | Model | S/N | FCC ID | | | | |
| Laptop PC | Dell | Inspiron | CN-901006-70166-57K-01K2 | DoC | | | | |
| AC/DC Adapter | Dell | ADP-60NH B | CN-0TD230-48661-57C-005B | N/A | | | | |
| Extension Card | Catalyst | 384-0152-003- REV C | N/A | N/A | | | | |

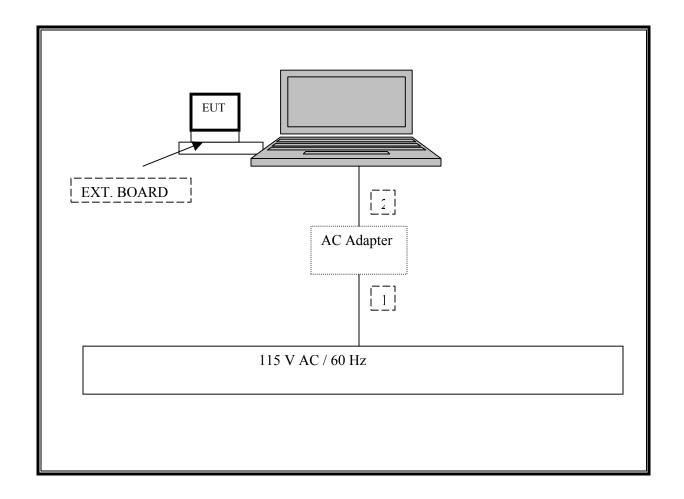
I/O CABLES

| I/O CABLE LIST | | | | | | | | | |
|----------------|----|---|-------------------|---------------|-----------------|---------|--|--|--|
| Cable No. | | | Connector Type | Cable Type | Cable Length | Remarks | | | |
| 1 | AC | 1 | AC | Unshielded | 1.8m | N/A | | | |
| 2 | DC | 1 | DC | Unshielded | 1.8m | N/A | | | |

TEST SETUP

The EUT is installed in a host laptop computer via an extension board during the tests. Test software exercised the radio card.

SETUP DIAGRAM FOR TESTS



6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

| TEST EQUIPMENT LIST | | | | | | | | |
|--------------------------------------|----------------|------------------|---------------|------------|--|--|--|--|
| Description | Manufacturer | Model | Serial Number | Cal Due | | | | |
| EMI Test Receiver | R&S | ESHS 20 | 827129/006 | 10/22/2005 | | | | |
| Site A Line Stabilizer / Conditioner | Tripplite | LC-1800a | A0051681 | CNR | | | | |
| LISN, 10 kHz ~ 30 MHz | FCC | LISN-50/250-25-2 | 2023 | 8/30/2005 | | | | |
| LISN, 10 kHz ~ 30 MHz | Solar | 8012-50-R-24-BNC | 8379443 | 10/21/2005 | | | | |
| Spectrum Analyzer | HP | E4446A | US42510266 | 8/25/2005 | | | | |
| Antenna, Horn 1 ~ 18 GHz | EMCO | 3117 | 29310 | 9/12/2005 | | | | |
| Preamplifier, 1 ~ 26.5 GHz | HP | 8449B | 3008A00369 | 8/17/2005 | | | | |
| Temperature / Humidity Chamber | Thermotron | SE 600-10-10 | 29800 | 5/13/2005 | | | | |
| Peak Power Meter | Agilent | E4416A | GB41291160 | 11/7/2004 | | | | |
| Peak / Average Power Sensor | Agilent | E9327A | US40440755 | 11/7/2004 | | | | |
| RF Filter Section | HP | 85420E | 3705A00256 | 11/21/2004 | | | | |
| EMI Receiver, 9 kHz ~ 2.9 GHz | HP | 8542E | 3942A00286 | 11/21/2004 | | | | |
| 30MHz 2Ghz | Sunol Sciences | JB1 Antenna | A121003 | 12/22/2004 | | | | |
| 4.0 High Pass Filter | Micro Tronics | HPM13351 | 3 | N/A | | | | |

7. LIMITS AND RESULTS

7.1. RADIATED EMISSIONS

7.1.1. TRANSMITTER RADIATED SPURIOUS EMISSIONS

LIMITS

§15.205 (a) 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 - 12.52025 | 240 - 285 | 3345.8 - 3358 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | $\binom{2}{}$ |
| 13.36 - 13.41 | | | |

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

§15.205 (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

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

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 30 - 88 | 100 ** | 3 |
| 88 - 216 | 150 ** | 3 |
| 216 - 960 | 200 ** | 3 |
| Above 960 | 500 | 3 |

^{**} 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.

§15.209 (b) In the emission table above, the tighter limit applies at the band edges.

TEST PROCEDURE

The EUT is placed on a non-conducting table 80 cm above the ground plane. The antenna to EUT distance is 3 meters. The EUT is configured in accordance with ANSI C63.4. The EUT is set to transmit in a continuous mode

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements or 120 kHz for quasi-peak detection measurements. Peak detection is used unless otherwise noted as quasi-peak.

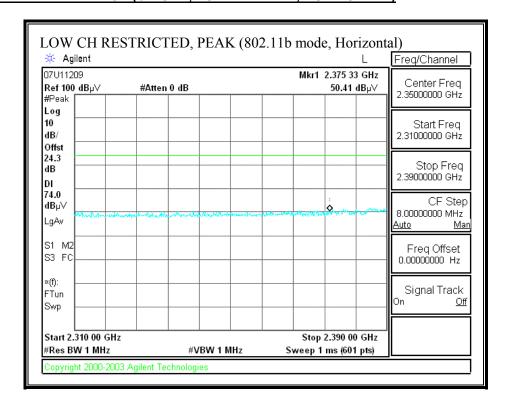
For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 1 MHz for peak measurements and 10 Hz for average measurements.

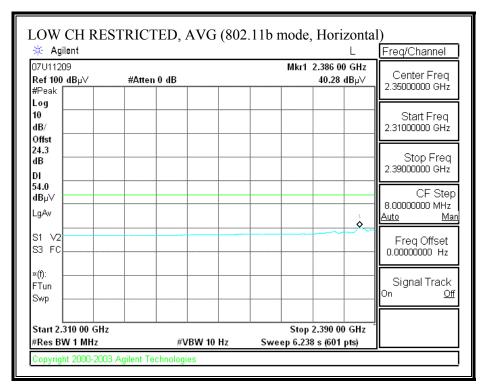
The spectrum from 30 MHz to 26 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in the 2.4 GHz band.

The spectrum from 30 MHz to 40 GHz is investigated with the transmitter set to the lowest, middle, and highest channels in each 5 GHz band.

The frequency range of interest is monitored at a fixed antenna height and EUT azimuth. The EUT is rotated through 360 degrees to maximize emissions received. The antenna is scanned from 1 to 4 meters above the ground plane to further maximize the emission. Measurements are made with the antenna polarized in both the vertical and the horizontal positions.

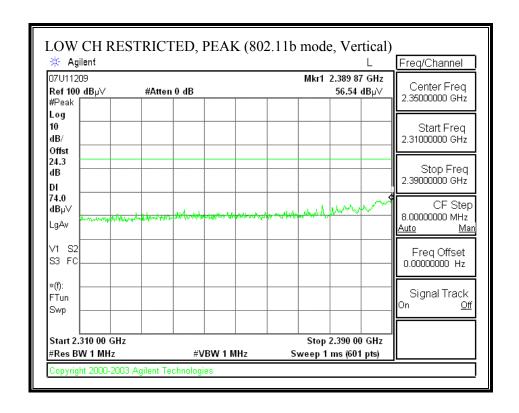
7.1.2. TRANSMITTER ABOVE 1 GHz FOR 2400 TO 2483.5 MHz BAND RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, HORIZONTAL)

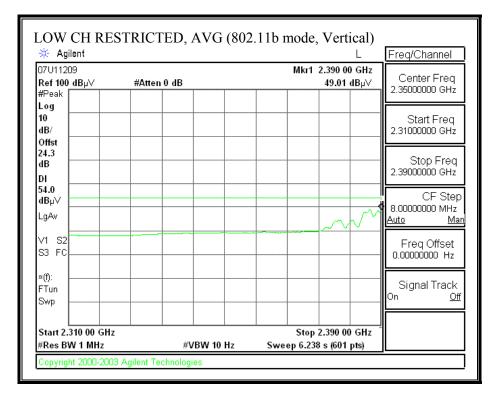




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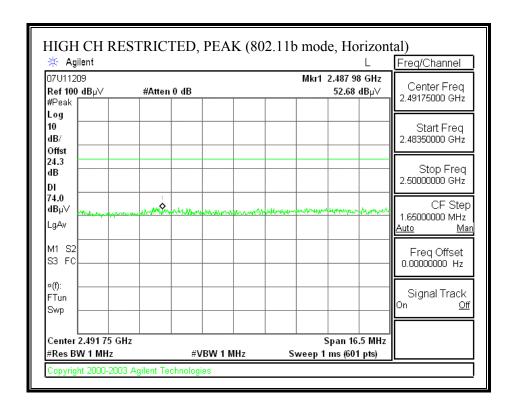
RESTRICTED BANDEDGE (b MODE, LOW CHANNEL, VERTICAL)

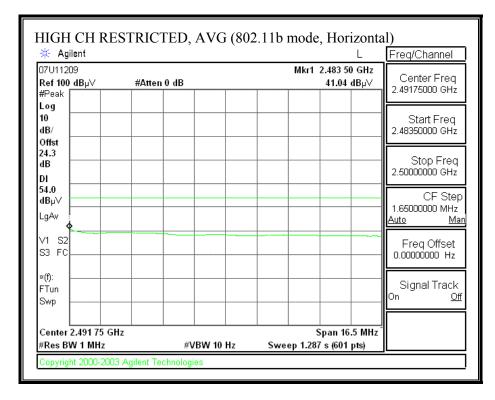




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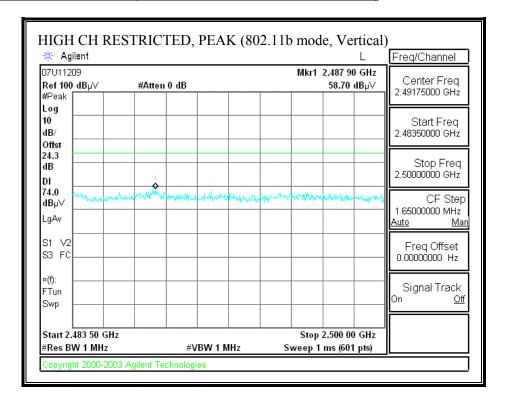
RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, HORIZONTAL)

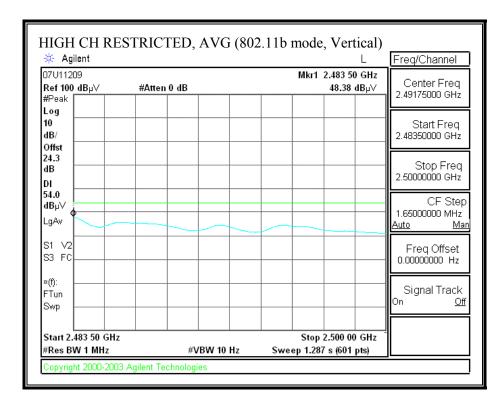




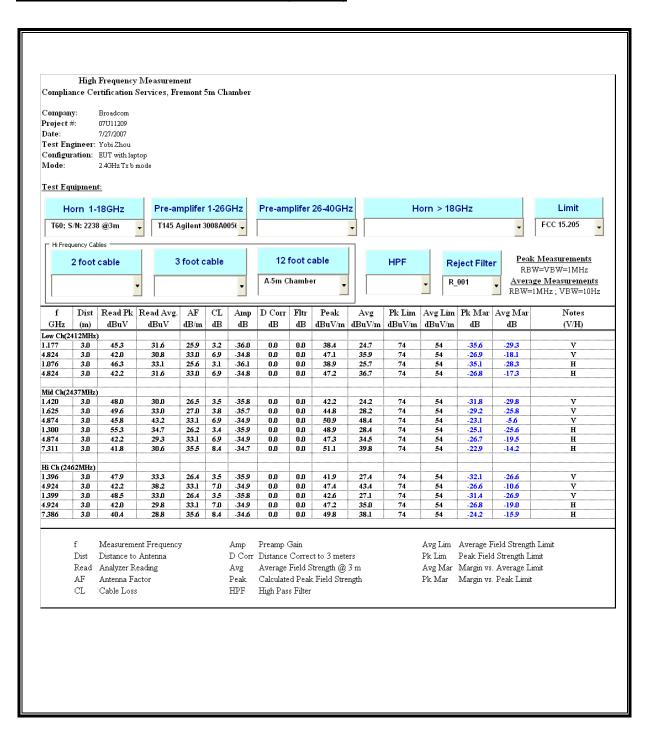
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RESTRICTED BANDEDGE (b MODE, HIGH CHANNEL, VERTICAL)





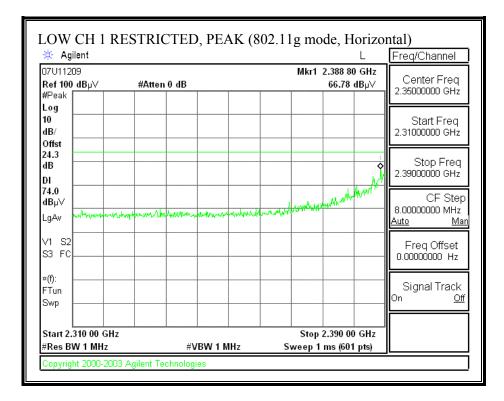
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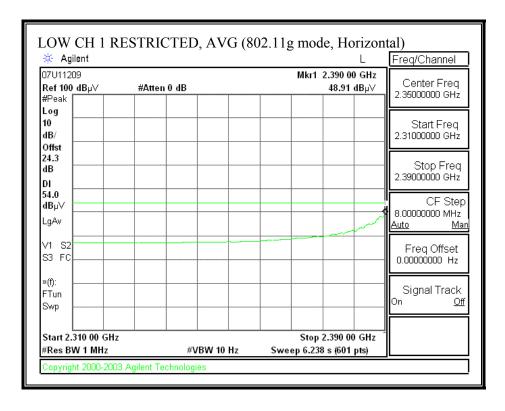


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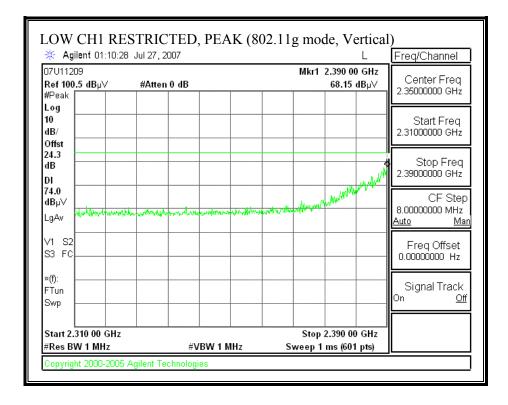
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL 1, HORIZONTAL)

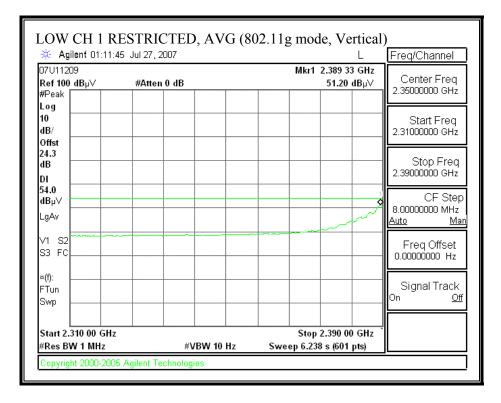




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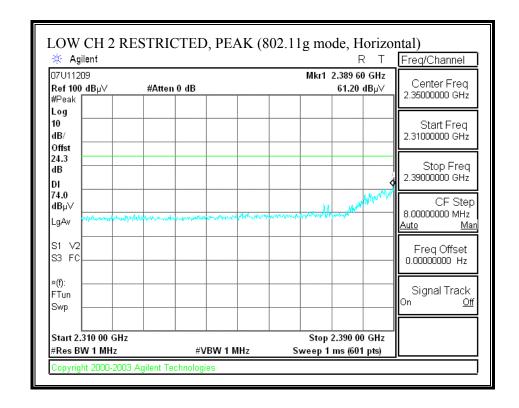
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL 1, VERTICAL)

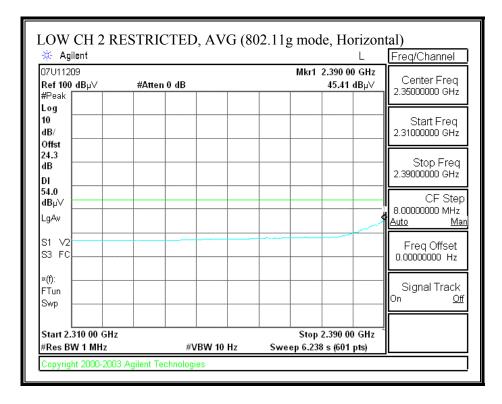




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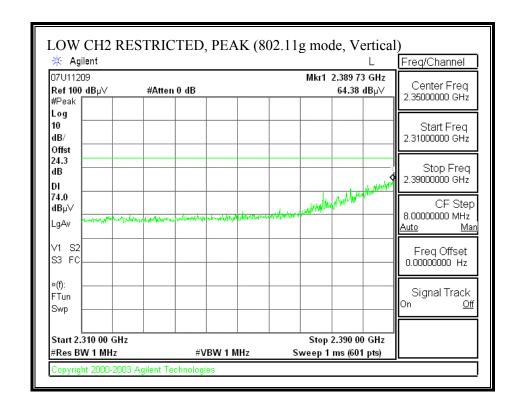
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL 2, HORIZONTAL)

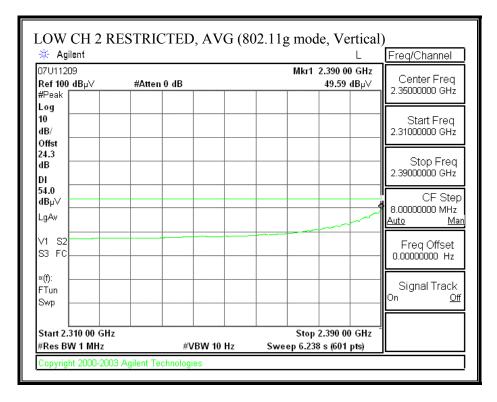




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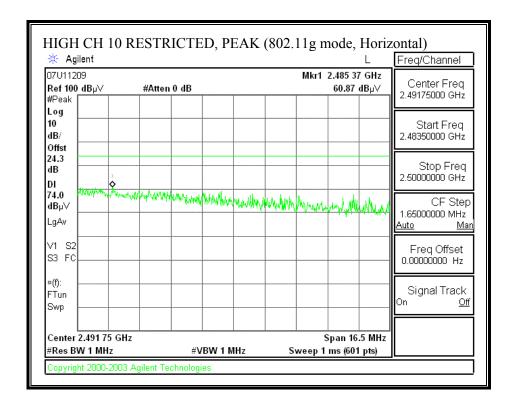
RESTRICTED BANDEDGE (g MODE, LOW CHANNEL 2, VERTICAL)

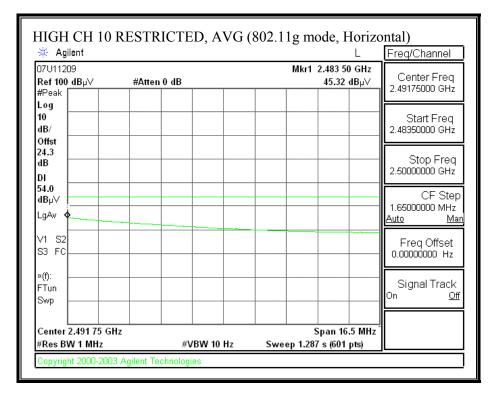




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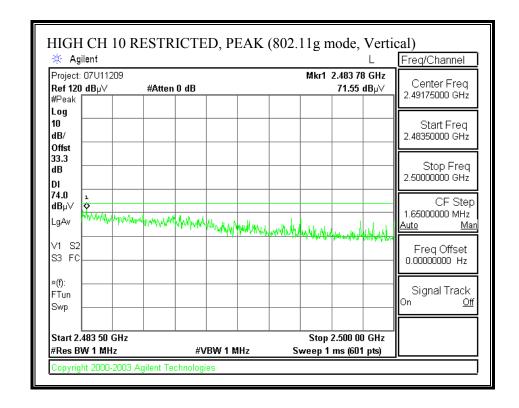
RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL 10, HORIZONTAL)

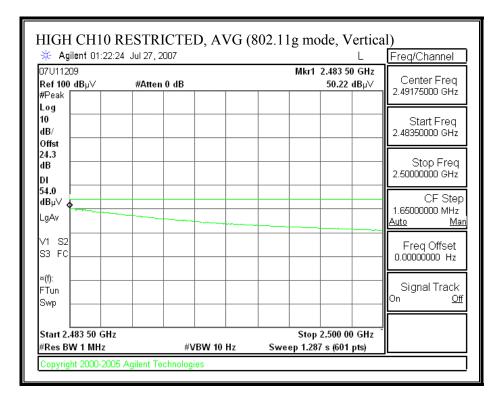




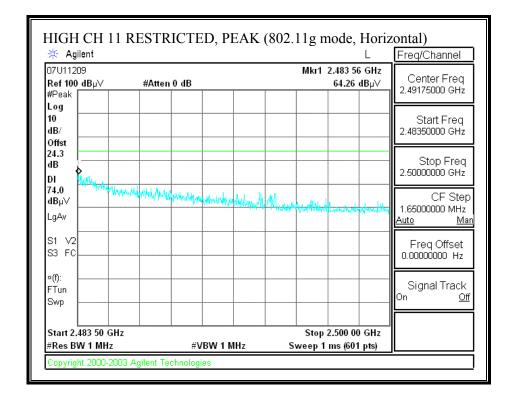
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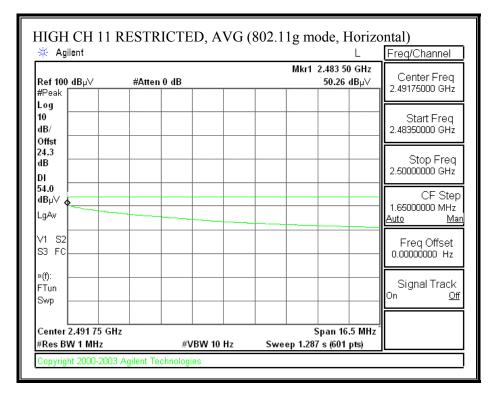
RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL10, VERTICAL)





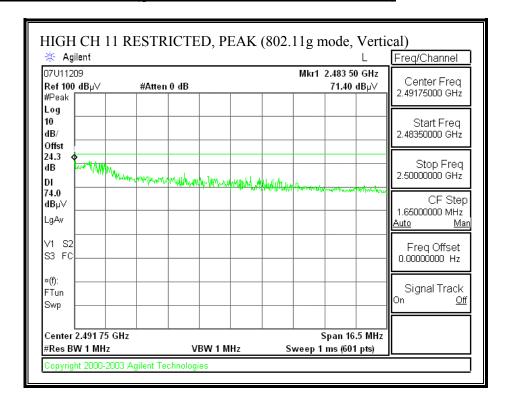
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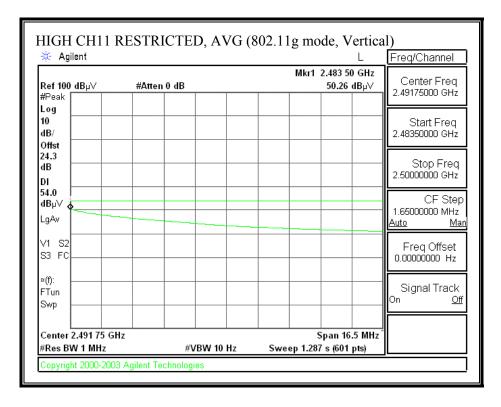




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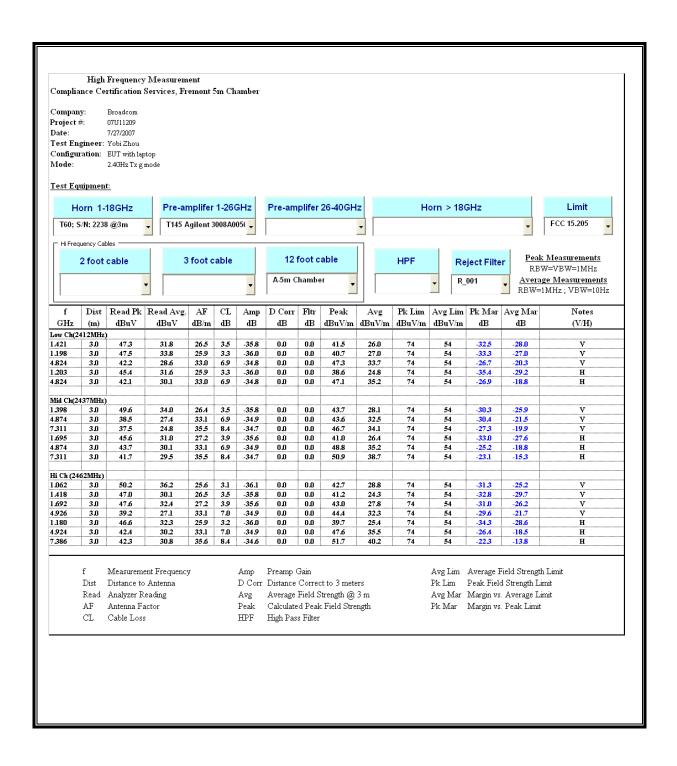
RESTRICTED BANDEDGE (g MODE, HIGH CHANNEL11, VERTICAL)





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HARMONICS AND SPURIOUS EMISSIONS (g MODE)

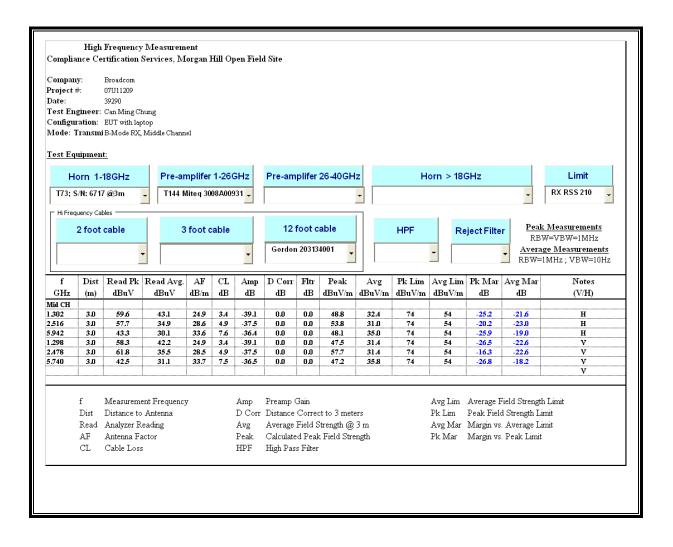


7.1.3. RECEIVER EMISSIONS ABOVE 1 GHZ

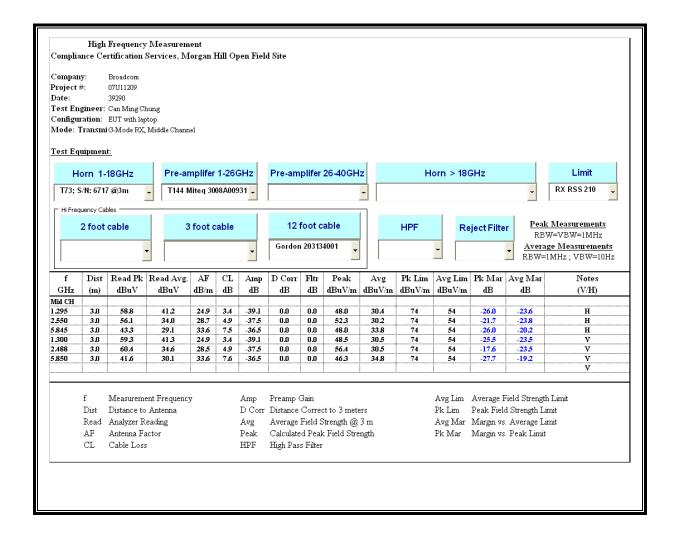
RESULTS

No non-compliance noted:

RECEIVER SPURIOUS EMISSIONS FOR 11b MODE



RECEIVER SPURIOUS EMISSIONS FOR 11g MODE



7.1.4. WORST-CASE RADIATED EMISSIONS BELOW 1 GHz

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL- b mode)

HORIZONTAL PLOT

Data#: 16 File#: 07U11209-1-revised.EMI

Date: 08-17-2007 Time: 00:01:42

Condition: FCC CLASS-B HORIZONTAL Test Operator:: Can Ming Chung

Project #: : 07U11209 Company: : Broadcom

Configuration:: EUT/Laptop/Antennas/Ac Adapter

Mode : : Normal Target: : FCC Cla : FCC Class B

| | Freq | Read Level | Factor | Level | Limit Line | Over Limit | Remark |
|--------------------------------------|---------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------|------------------------------|----------------------------------|-------------------------------------------------------------|----------------------------------------|
| | MHz | dBu∇ | dB | $\overline{\mathtt{dBuV/m}}$ | $\overline{\mathtt{dBuV/m}}$ | dB | |
| 1 2 3 4 5 6 7 8 | 100.810 100.810 302.570 302.570 373.380 373.380 575.140 | 57.79 55.16 56.27 50.64 52.64 | -16.98 -16.98 -12.21 -12.21 -10.49 -10.49 -5.83 -5.83 | 42.95 44.06 40.15 | 46.00 46.00 46.00 46.00 | -4.10 -2.69 -3.05 -1.94 -5.85 -3.85 -8.87 | Peak QP Peak QP Peak QP |
| 9 10 11 | 857.410 905.910 905.910 | 40.15 41.81 43.06 | -1.51 | 38.63 | 46.00 | -7.37 | Peak QP |

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL-b mode)

VERTICAL PLOT



Compliance Certification Services

47173 Benicia Street Fremont, CA 94538 Tel: (510) 771-1000 Fax: (510) 661-0888

Data#: 14 File#: 07U11209-1-revised.EMI

Date: 08-16-2007 Time: 23:57:16

Condition: FCC CLASS-B VERTICAL Test Operator:: Can Ming Chung

Project #: : 07U11209 Company: : Broadcom

Configuration:: EUT/Laptop/Antennas/Ac Adapter

Mode : : Normal Target: : FCC Class B

| | Freq | Read Level | Factor | Level | Limit Line | Over Limit | Remark |
|---|---------|---------------|--------|------------------------------|------------------------------|---------------|--------|
| | MHz | dBuV | dB | $\overline{\mathtt{dBuV/m}}$ | $\overline{\mathtt{dBuV/m}}$ | dB | |
| 1 | 100.810 | | | 33.50 | | -10.00 | |
| 2 | 288.990 | 46.56 | -12.63 | 33.93 | 46.00 | -12.07 | Peak |
| 3 | 378.230 | 46.00 | -10.36 | 35.64 | 46.00 | -10.36 | Peak |
| 4 | 535.370 | 44.26 | -6.69 | 37.57 | 46.00 | -8.43 | Peak |
| 5 | 806.970 | 40.81 | -2.02 | 38.80 | 46.00 | -7.20 | Peak |
| 6 | 905.910 | 41.27 | -1.04 | 40.22 | 46.00 | -5.78 | Peak |

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SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL-g mode)

HORIZONTAL PLOT



Compliance Certification Services

47173 Benicia Street Fremont, CA 94538 Tel: (510) 771-1000 Fax: (510) 661-0888

Data#: 21 File#: 07U11209-1-revised.EMI

Date: 08-17-2007 Time: 00:25:22

Condition: FCC CLASS-B HORIZONTAL Test Operator:: Can Ming Chung

Project #: : 07U11209 Company: : Broadcom

Configuration:: EUT/Laptop/Antennas/Ac Adapter

Mode : : Normal Target: : FCC Class B

| | | Read | | | Limit | Over | |
|---|---------|-------|--------|----------------------------|----------------------------|-------|--------|
| | Freq | Level | Factor | Level | Line | Limit | Remark |
| | MHz | dBuV | dB | $\overline{\text{dBuV/m}}$ | $\overline{\text{dBuV/m}}$ | dB | |
| 1 | 100.810 | 56.32 | -16.53 | 39.79 | 43.50 | -3.71 | QP |
| 2 | 100.810 | 58.70 | -16.53 | 42.17 | 43.50 | -1.33 | Peak |
| 3 | 367.560 | 51.36 | -10.10 | 41.26 | 46.00 | -4.74 | Peak |
| 4 | 567.380 | 46.60 | -5.62 | 40.98 | 46.00 | -5.02 | QP |
| 5 | 567.380 | 47.70 | -5.62 | 42.08 | 46.00 | -3.92 | Peak |
| 6 | 635.280 | 42.06 | -4.22 | 37.84 | 46.00 | -8.16 | Peak |
| 7 | 853.530 | 40.08 | -1.08 | 39.00 | 46.00 | -7.00 | Peak |
| 8 | 902.030 | 44.99 | -0.69 | 44.30 | 46.00 | -1.70 | Peak |
| 9 | 902.030 | 42.47 | -0.69 | 41.78 | 46.00 | -4.22 | QP |
| | | | | | | | |

SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL -g mode)

VERTICAL PLOT



Compliance Certification Services

47173 Benicia Street Fremont, CA 94538 Tel: (510) 771-1000 Fax: (510) 661-0888

Data#: 18 File#: 07U11209-1-revised.EMI

Date: 08-17-2007 Time: 00:16:46

Condition: FCC CLASS-B VERTICAL Test Operator:: Can Ming Chung

Project #: : 07U11209 Company: : Broadcom

Configuration:: EUT/Laptop/Antennas/Ac Adapter

Mode : : Normal Target: : FCC Cla : FCC Class B

| | Freq | Read Level | Factor | Level | Limit Line | Over Limit | Remark |
|--------|--------------------|---------------|------------------|----------------------------|------------------------------|-----------------|--------|
| | MHz | dBuV | dB | $\overline{\text{dBuV/m}}$ | $\overline{\mathtt{dBuV/m}}$ | dB | |
| 1 2 | | | -16.53 -12.54 | | 43.50 43.50 | -6.21 -5.81 | |
| 3 4 | 300.630 566.410 | | -11.73 -5.63 | 34.95 38.81 | | -11.05 -7.19 | |
| 5 6 | 799.210 897.180 | | -1.47 -0.78 | | 46.00 46.00 | | |

8. SETUP PHOTOS

RADIATED RF MEASUREMENT SETUP





END OF REPORT