

FCC 47 CFR PART 15 SUBPART C AND ANSI C63.4 : 2003

TEST REPORT

For

RANGEBOOSTER N 650 ACCESS POINT

Model : DAP-1353

Trade Name : D-Link

Issued for

D-Link Corporation

No. 289, Sinhu 3rd Rd., Neihu District, Taipei City 114, Taiwan, R.O.C.

Issued by

Compliance Certification Services Inc. Tainan Laboratory No. 8, Jiu Cheng Ling, Jiaokeng Village, Sinhua Township, Tainan Hsien 712, Taiwan R.O.C. TEL: 886-6-580-2201

FAX: 886-6-580-2202



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 FCC ID
 : KA2AP1353B1

 Report No. : 90407002-RP1

 Page
 2 of 213

Revision History

| Rev. | Issue Date | Revisions | Effect Page | Revised By |
|------|------------|---------------|--------------|------------|
| 00 | 06/09/2009 | Initial Issue | All Page 213 | Jeter Wu |
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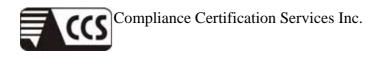
 FCC ID
 : KA2AP1353B1

 Report No.
 : 90407002-RP1

 Page
 3 of
 213

TABLE OF CONTENTS

| TITLE | PAGE NO. |
|---|----------|
| 1. TEST REPORT CERTIFICATION | |
| 2. EUT DESCRIPTION | |
| 2.1 DESCRIPTION OF EUT & POWER | |
| 3. DESCRIPTION OF TEST MODES | 7 |
| 4. TEST METHODOLOGY | 7 |
| 5. FACILITIES AND ACCREDITATIONS | |
| 5.1 FACILITIES | |
| 5.2 EQUIPMENT | |
| 5.3 LABORATORY ACCREDITATIONS LISTINGS | |
| 5.4 TABLE OF ACCREDITATIONS AND LISTINGS | 9 |
| 6. CALIBRATION AND UNCERTAINTY | |
| 6.1 MEASURING INSTRUMENT CALIBRATION | |
| 6.2 MEASUREMENT UNCERTAINTY | |
| 7. SETUP OF EQUIPMENT UNDER TEST | |
| 8. APPLICABLE LIMITS AND TEST RESULTS | |
| 8.1 6dB BANDWIDTH | |
| 8.2 99% BANDWIDTH | |
| 8.3 MAXIMUM PEAK OUTPUT POWER | |
| 8.4 MAXIMUM PERMISSIBLE EXPOSURE | |
| 8.5 AVERAGE POWER | |
| 8.6 POWER SPECTRAL DENSITY | |
| 8.7 CONDUCTED SPURIOUS EMISSION | |
| 8.8 RADIATED EMISSIONS | |
| 8.8.1 TRANSMITTER RADIATED SUPURIOUS EMSSIONS | |
| 8.8.2 WORST-CASE RADIATED EMISSION BELOW 1 GHz | |
| 8.8.3 TRANSMITTER RADIATED EMISSION ABOVE 1 GHz | |
| 8.8.4 RESTRICTED BAND EDGES | |
| 8.9 POWERLINE CONDUCTED EMISSIONS | |
| APPENDIX SETUP PHOTOS | 209-213 |



 FCC ID
 : KA2AP1353B1

 Report No. : 90407002-RP1

 Page
 4 of 213

1. TEST REPORT CERTIFICATION

| Applicant | : | D-Link Corporation |
|----------------------|---|--|
| Address | : | No. 289, Sinhu 3rd Rd., Neihu District, Taipei City 114, |
| | | Taiwan, R.O.C. |
| Equipment Under Test | • | RANGEBOOSTER N 650 ACCESS POINT |
| Model | : | DAP-1353 |
| Trade Name | : | D-Link |
| Tested Date | : | March 07 ~ June 05, 2009 |

| APPLICABLE STANDARD | | | | |
|--|-------------------------|--|--|--|
| STANDARD | TEST RESULT | | | |
| FCC Part 15 Subpart C AND ANSI C63.4:2003 | No non-compliance noted | | | |

Approved by:

54

Jeter Wu Section Manager

Reviewed by:

Eric ang

Eric Yang Senior Engineer

WE HEREBY CERTIFY THAT: The measurements shown in the attachment were made in accordance with the procedures indicated, and the energy emitted by the equipment was found to be within the limits applicable. We assume full responsibility for the accuracy and completeness of these measurements and vouch for the qualifications of all persons taking them.



 FCC ID
 : KA2AP1353B1

 Report No. : 90407002-RP1

 Page
 5 of 213

2. EUT DESCRIPTION

2.1 DESCRIPTION OF EUT & POWER

| Product Name | RANGEBOOSTER N 650 ACCESS POINT |
|---------------------|--|
| Model Number | DAP-1353 |
| Enguanay Danga | IEEE 802.11b/g, 802.11n HT20 : 2412MHz ~ 2462MHz |
| Frequency Range | IEEE 802.11n HT40 : 2422MHz ~ 2452MHz |
| | IEEE 802.11b : 25.81dBm |
| T | IEEE 802.11g : 25.82dBm |
| Transmit Power | IEEE 802.11n HT20 : 25.84dBm |
| | IEEE 802.11n HT40 : 25.74dBm |
| Channel Spacing | IEEE 802.11b/g, 802.11n HT20/HT40 : 5MHz |
| Channel Number | IEEE 802.11b/g, 802.11n HT20 : 11 Channels |
| Channel Number | IEEE 802.11n HT40 :7 Channels |
| | IEEE 802.11b : 11, 5.5, 2, 1 Mbps |
| | IEEE 802.11g : 54, 48, 36, 24, 18, 12, 9, 6 Mbps |
| | IEEE 802.11n HT20 : 144.44, 130, 117, 115.556, 104, 86.667, 78, |
| | 72.2, 65, 58.5, 57.8, 57.778, 52, 43.333, 43.3, |
| Transmit Data Rate | 39, 28.9, 28.889, 26, 21.7, 19.5, 14.444, 14.4, |
| | 13, 7.2, 6.5 Mbps |
| | IEEE 802.11n HT40 : 300, 270, 243, 240, 216, 180, 162, 150, 135, |
| | 121.5, 120, 108, 90, 81, 60, 54, 45, 40.5, 30, |
| | 27, 15, 13.5Mbps IEEE 802.11b : DSSS (CCK, DQPSK, DBPSK) |
| Type of Modulation | IEEE 802.11g : OFDM (64QAM, 16QAM, QPSK, BPSK) |
| Type of Modulation | |
| | IEEE 802.11n HT20/40 : OFDM (64QAM, 16QAM, QPSK, BPSK) |
| Frequency Selection | by software / firmware |
| Antenna Type | Dipole Antenna × 3 ,Antenna Gain 3 dBi |
| Power Source | 5.0VDC (From Power Adapter) |
| I/O Port | Ethernet LAN port $\times 1$, Power port $\times 1$ |

| No. | Manufacturer | Model No. | Power Input | Power Output | | | | |
|-----|--------------|----------------|------------------------------|--------------|--|--|--|--|
| 1 | D-Link | CF1505-B | 100-120VAC, 50/60Hz, 0.4A | 5VDC, 2.5A | | | | |
| 2 | D-Link | CF1505-B | 100-240VAC, 50/60Hz, 0.4A | 5VDC, 2.5A | | | | |
| 3 | D-Link | AMS3-0502500SU | 100-120VAC, 60Hz, 0.5A | 5VDC, 2.5A | | | | |
| 4 | D-Link | AMS3-0502500FU | 100-240VAC, 50/60Hz, 0.5A | 5VDC, 2.5A | | | | |

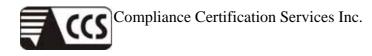
Power Adapter :

Remark:

1. The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.

2. This submittal(s) (test report) is intended for FCC ID: KA2AP1353B1 filing to comply with Section 15.207, 15.209 and 15.247 of the FCC Part 15, Subpart C Rules.

3. For more details, please refer to the User's manual of the EUT.



3. DESCRIPTION OF TEST MODES

The EUT is an 802.11n MIMO transceiver in Access Point form factor. It has three transmitter chains and three receive chains (3×3 configurations). The 3×3 configuration is implemented with three outside chains (Chain 0, 1, 2).

The RF chipset is manufactured by Atheros Communications Inc.

IEEE 802.11 b ,802.11g ,802.11n HT20 mode

The EUT had been tested under operating condition.

There are three channels have been tested as following :

| Channel | Frequency (MHz) |
|---------|-----------------|
| Low | 2412 |
| Middle | 2437 |
| High | 2462 |

IEEE 802.11b mode : 1Mbps data rate (worst case) were chosen for full testing. IEEE 802.11g mode : 6Mbps data rate (worst case) were chosen for full testing. IEEE 802.11n HT20 mode : 6.5Mbps data rate (worst case) were chosen for full testing.

IEEE 802.11n HT40 mode

The EUT had been tested under operating condition.

There are three channels have been tested as following :

| Channel | Frequency (MHz) |
|---------|-----------------|
| Low | 2422 |
| Middle | 2437 |
| High | 2452 |

IEEE 802.11n HT40 mode : 13.5Mbps data rate (worst case) were chosen for full testing.

4. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4:2003 and FCC CRF 47 15.207, 15.209 and 15.247.

 FCC ID
 : KA2AP1353B1

 Report No.
 : 90407002-RP1

 Page
 8 of 213

5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

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

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

The sites are constructed in conformance with the requirements of 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 preselectors 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."

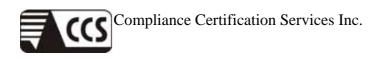
5.3 LABORATORY ACCREDITATIONS LISTINGS

The test facilities used to perform radiated and conducted emissions tests are accredited by Taiwan Accreditation Foundation for the specific scope of accreditation under Lab Code: 1109 to perform Electromagnetic Interference tests according to FCC PART 15 AND CISPR 22 requirements. In addition, the test facilities are listed with Industry Canada, Certification and Engineering Bureau, IC 2324H-1 for OATS -6.

5.4 TABLE OF ACCREDITATIONS AND LISTINGS

| Country | Agency | Scope of Accreditation | Logo |
|---------|--------------------|---|--|
| USA | FCC | 3/10 meter Open Area Test Sites to perform FCC Part 15/18 measurements | FCC 455173 TW-1037 |
| Japan | VCCI | 3/10 meter Open Area Test Sites to perform conducted/radiated measurements | VCCI C-2882 R-2635 |
| Taiwan | TAF | CISPR 11, FCC METHOD-47 CFR Part 18, EN 55011, EN 60601-1-2, CISPR 22, CNS 13438, EN 55022, EN 55024, AS/NZS CISPR 22 CISPR 14, EN 55014-1, EN 55014-2, CNS 13783-1, CISPR 22, CNS 13439, EN 55013, FCC Method-47 CFR Part 15 Subpart B, IC ICES-003, VCCI V-3 & V-4 FCC Method-47 CFR Part 15 Subpart C and ANSI C63.4, LP 0002 EN / IEC 61000-4-2 / -3 / -4 / -5 / -6 / -8 / -11 EN 61000-3-2, EN 61000-3-3 EN 61000-6-3, EN 61000-6-1, AS/NZS 4251.1, EN 61000-6-4, EN 61000-6-2, AS/NZS 4251.2, EN 61204-3, EN 50130-4, EN 62040-2, EN 50371, EN 50385, AS/NZS 4268, ETSI EN 300 386 ETSI EN 300 328, ETSI EN 301 489-1/-3/-9/-17 ETSI EN 301 893, ETSI EN 300 220-2/-1 ETSI EN 301 357-2/-1 RSS-310, RSS-210 Issue 7, RSS-Gen Issue 2 | Total Control of the second se |
| Taiwan | BSMI | CNS 13438, CNS 13783-1, CNS13439 | SL2-IN-E-0039 SL2-R1/R2-0039 SL2-A1-E-0039 |
| Canada | Industry Canada | RSS210, Issue 7 | Canada IC 2324H-1 |

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



6. CALIBRATION AND UNCERTAINTY

6.1 MEASURING INSTRUMENT CALIBRATION

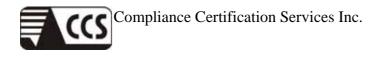
The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

6.2 MEASUREMENT UNCERTAINTY

The following table is for the measurement uncertainty, which is calculated as per the document CISPR 16-4.

| PARAMETER | UNCERTAINTY |
|-----------------------------------|-------------|
| Radiated Emission, 30 to 1000 MHz | +/- 3.2 dB |
| Radiated Emission, 1 to 26.5GHz | +/- 3.2 dB |
| Power Line Conducted Emission | +/- 2.1 dB |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.



7. SETUP OF EQUIPMENT UNDER TEST

SUPPORT EQUIPMENT

| No. | Product | Manufacturer | Model No. | Serial No. | FCC ID |
|-----|-------------|--------------|---------------|--------------------------|----------------|
| 1 | Notebook PC | DELL | Latitude D610 | CN-0C4708-48643-625-5565 | E2K24BNHM |
| 2 | Notebook PC | HP | nx6130 | CNU543274R | CNTWM3B2200BGA |
| 3 | DIY PC | | | | |

SETUP DIAGRAM FOR TESTS

EUT & peripherals setup diagram is shown in appendix setup photos.

EUT OPERATING CONDITION

RF

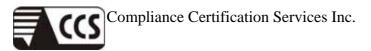
- 1. Set up all computers like the setup diagram.
- 2. The "Atheros Radio Test <ART> Devilib Revision 0.7 BUILD #16 ART_11n" software was used for testing.
- 3. telnet 192.168.0.50

Account Number:admin / No Password

- →alpha sdd21234
- →set art_start

TX Mode:

- \Rightarrow Tx Antenna: ANT_A, [TX99] [Chain masks:0x7(Tx),0x7(Rx)]
- \Rightarrow Tx Data Rate:1Mbps long (IEEE 802.11b mode , chain 0/1/2 TX)
 - 6Mbps (IEEE 802.11g mode , chain 0/1/2 TX)
 - 6.5Mbps (IEEE 802.11n HT20 mode ,chain 0/1/2 TX)
 - 13.5Mbps (IEEE 802.11n HT40 mode, chain 0/1/2 TX)
- \Rightarrow Power control mode
 - Output Power: IEEE 802.11b Channel Low (2412MHz) = 17.5
 - IEEE 802.11b Channel Middle (2437MHz) = 18
 - IEEE 802.11b Channel High (2462MHz) = 16
 - Output Power: IEEE 802.11g Channel Low (2412MHz) = 13
 - IEEE 802.11g Channel Middle (2437MHz) = 17
 - IEEE 802.11g Channel High (2462MHz) = 11.5
 - Output Power: IEEE 802.11n HT20 Channel Low (2412MHz) = 11
 - IEEE 802.11n HT20 Channel Middle (2437MHz) = 17
 - IEEE 802.11n HT20 Channel High (2462MHz) = 10

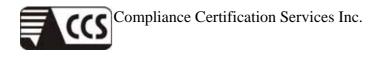


Output Power: IEEE 802.11n HT40 Channel Low (2422MHz) = 7.5 IEEE 802.11n HT40 Channel Middle (2437MHz) = 17 IEEE 802.11n HT40 Channel High (2452MHz) = 8

- 4. All of the function are under run.
- 5. Start test.

For Normal operating :

- 1. Set up all computers like the setup diagram.
- 2. Notebook PC (2) ping to Notebook PC (3).
- 3. Notebook PC (2) (3) ping 192.168.0.50 -t to EUT.
- 4. All of the function are under run.
- 5. Start test.



FCC ID : KA2AP1353B1 Report No. : 90407002-RP1 Page <u>13</u> of <u>213</u>

8. APPLICABLE LIMITS AND TEST RESULTS

8.1 6dB BANDWIDTH

LIMIT

§ 15.207(a) (2) For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

TEST EQUIPMENT

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|----------------------|--------------|--------|---------------|------------------------|
| SPECTRUM ANALYZER | AGILENT | E4446A | MY43360132 | 06/05/2009 |
| SPECTRUM ANALYZER | AGILENT | E4446A | MY46180323 | 05/26/2010 |

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

TEST SETUP



TEST PROCEDURE

The transmitter output was connected to a spectrum analyzer. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 300 KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

TEST RESULTS

No non-compliance noted

IEEE 802.11b mode (Three TX)

| Channel | Channel Frequency | 6dB Bandwidth (MHz) | | | Minimum Limit | Pass / Fail |
|---------|----------------------|------------------------|---------|---------|------------------|-------------|
| | (MHz) | Chain 0 | Chain 1 | Chain 2 | (kHz) | |
| Low | 2412 | 10.25 | 10.08 | 10.08 | 500 | PASS |
| Middle | 2437 | 10.17 | 10.08 | 10.08 | 500 | PASS |
| High | 2462 | 10.00 | 11.00 | 11.00 | 500 | PASS |

IEEE 802.11g mode (Three TX)

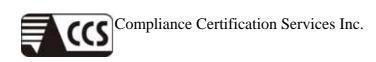
| Channel | Channel Frequency | 6dB Bandwidth (MHz) | | | Minimum Limit | Pass / Fail |
|---------|----------------------|------------------------|---------|---------|------------------|-------------|
| | (MHz) | Chain 0 | Chain 1 | Chain 2 | (kHz) | |
| Low | 2412 | 16.50 | 16.50 | 16.50 | 500 | PASS |
| Middle | 2437 | 16.50 | 16.50 | 16.50 | 500 | PASS |
| High | 2462 | 16.42 | 16.42 | 16.50 | 500 | PASS |

IEEE 802.11n HT20 mode (Three TX)

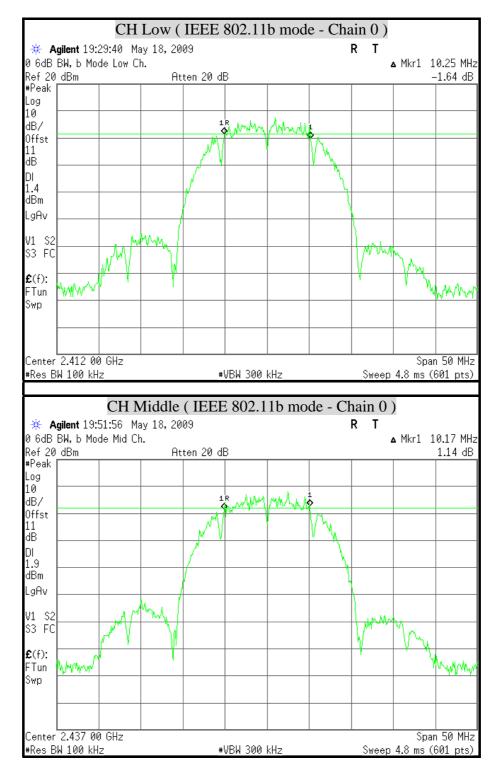
| Channel | Channel Frequency | 6dB Bandwidth (MHz) | | | Minimum Limit | Pass / Fail |
|---------|----------------------|------------------------|---------|---------|------------------|-------------|
| | (MHz) | Chain 0 | Chain 1 | Chain 2 | (kHz) | |
| Low | 2412 | 17.25 | 17.67 | 17.75 | 500 | PASS |
| Middle | 2437 | 17.67 | 17.75 | 17.83 | 500 | PASS |
| High | 2462 | 17.83 | 17.67 | 17.50 | 500 | PASS |

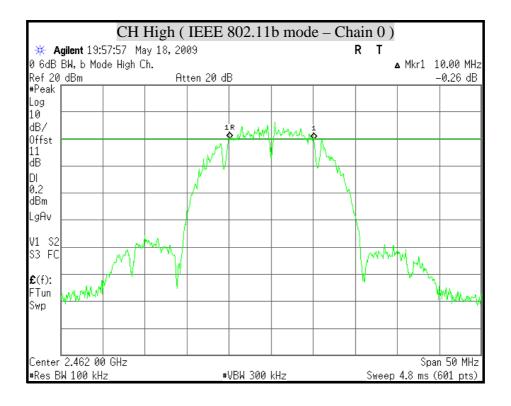
IEEE 802.11n HT40 mode (Three TX)

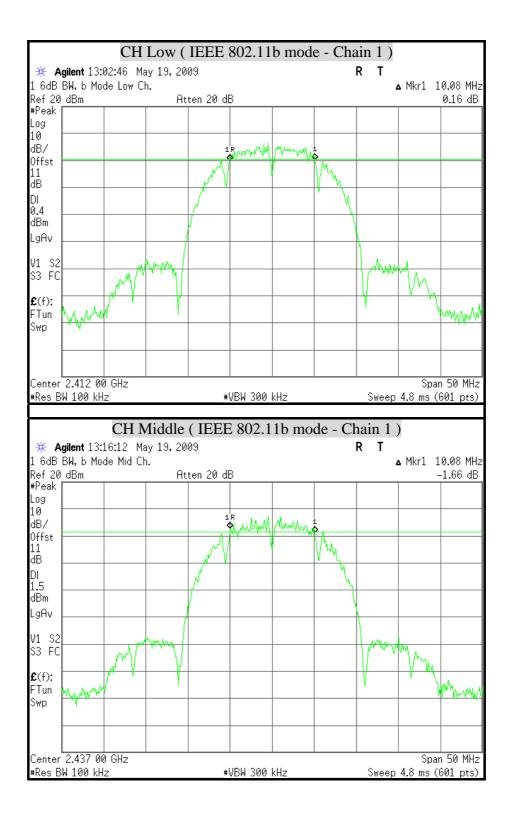
| Channel | Channel Frequency | 6dB Bandwidth (kHz) | | | Minimum Limit | Pass / Fail |
|---------|----------------------|------------------------|---------|---------|------------------|-------------|
| | (MHz) | Chain 0 | Chain 1 | Chain 2 | (kHz) | |
| Low | 2422 | 36.42 | 36.50 | 36.50 | 500 | PASS |
| Middle | 2437 | 36.58 | 36.50 | 36.42 | 500 | PASS |
| High | 2452 | 36.58 | 36.42 | 36.50 | 500 | PASS |

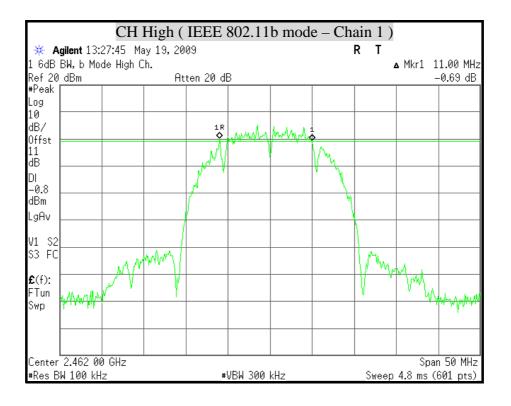


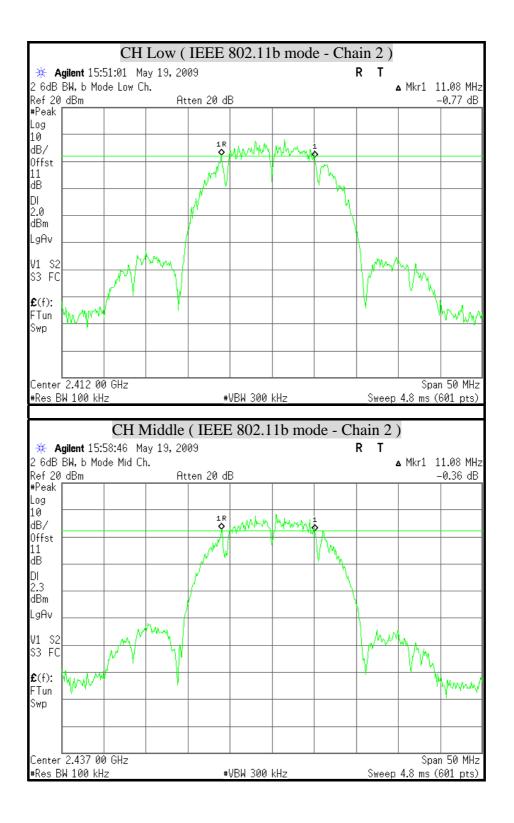
6dB BANDWIDTH (IEEE 802.11b mode)

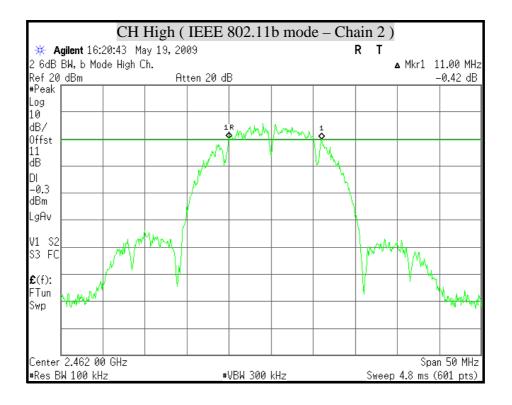


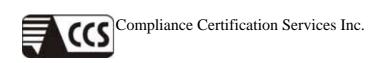




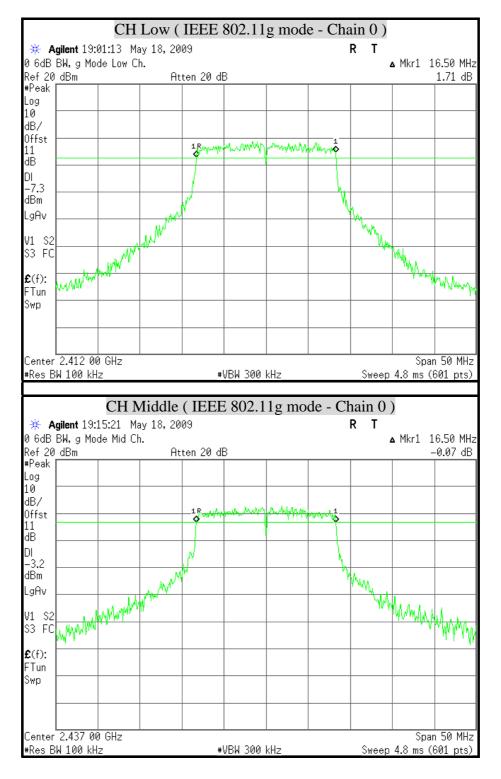


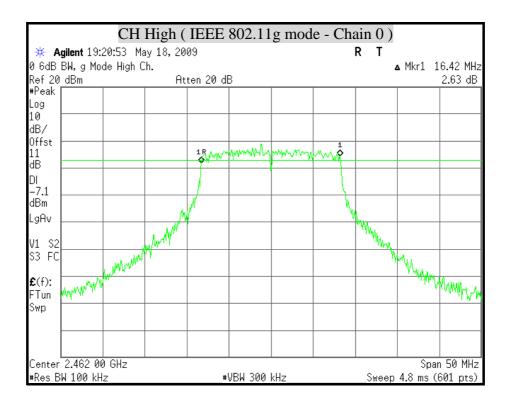


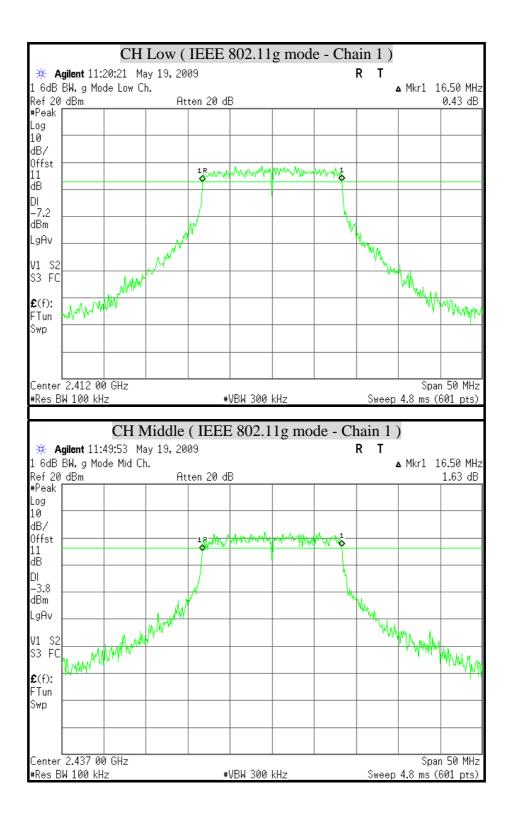


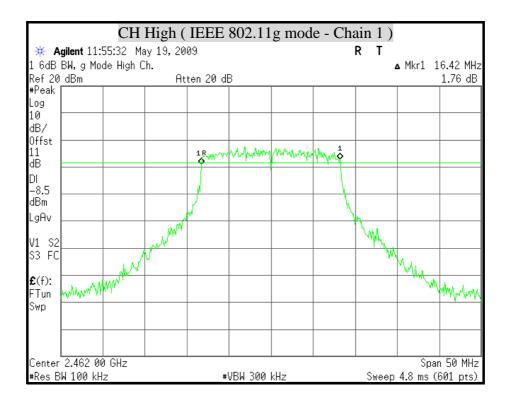


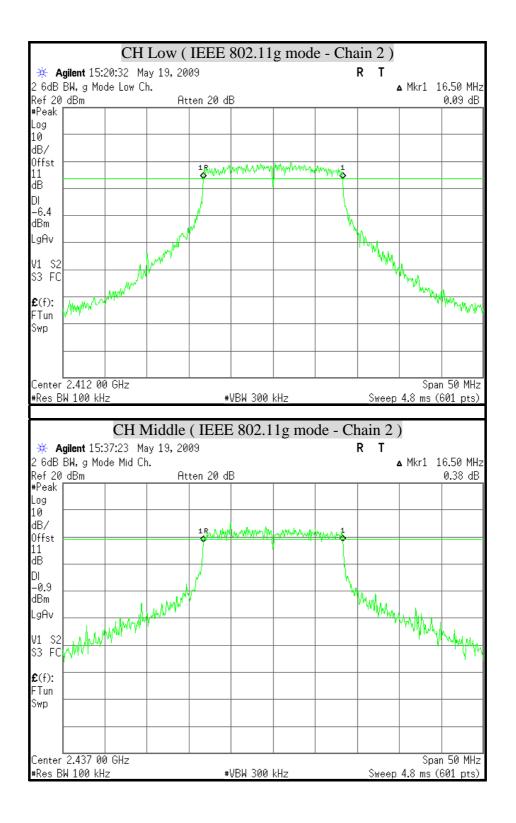
6dB BANDWIDTH (IEEE 802.11g mode)

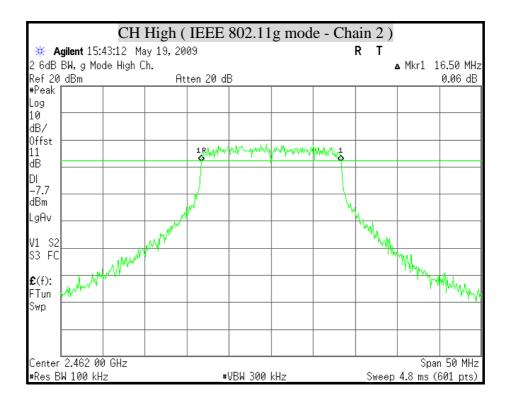


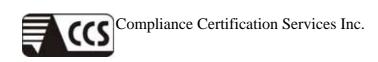




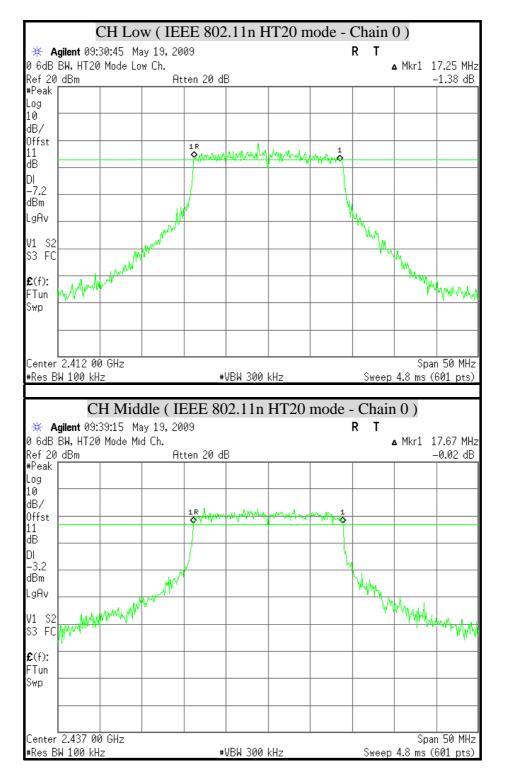


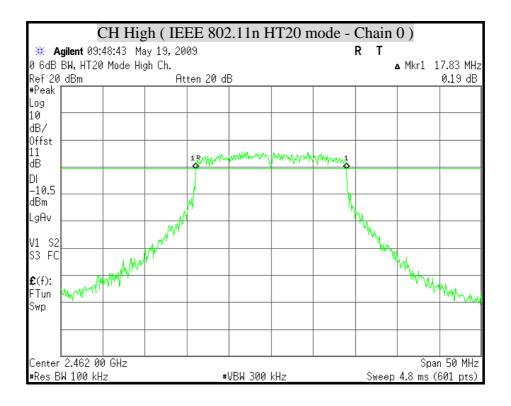


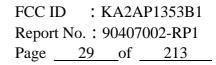


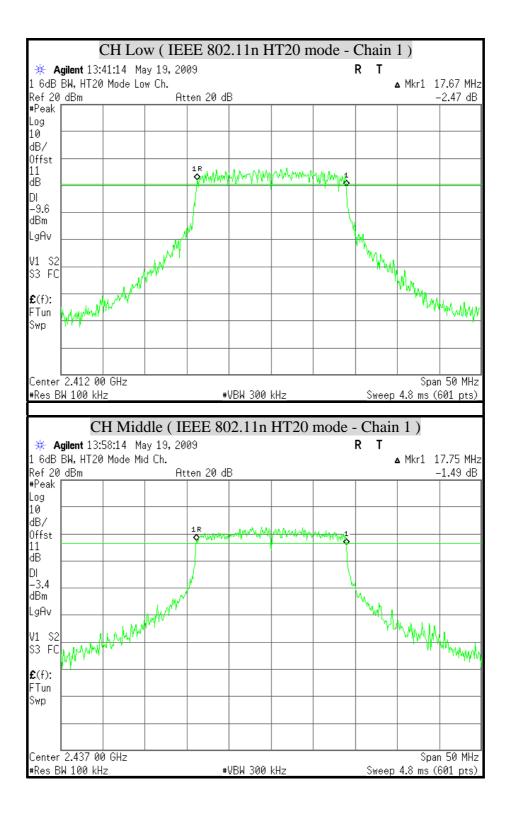


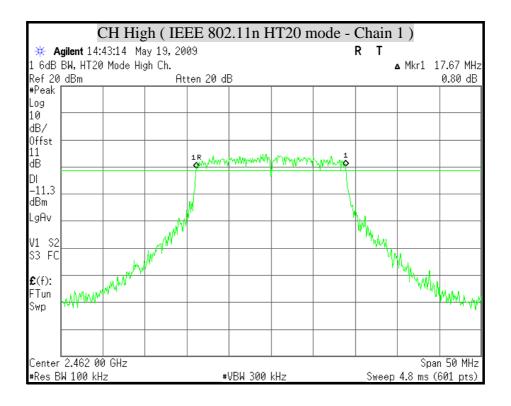
6dB BANDWIDTH (IEEE 802.11n HT20 mode)

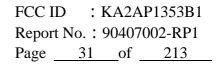


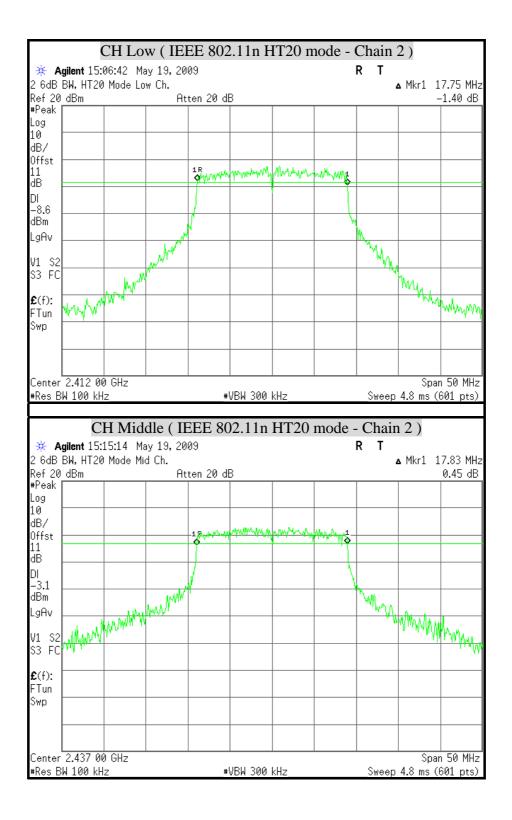


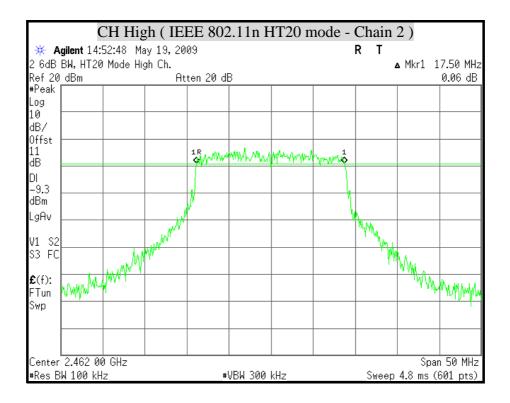


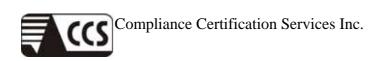




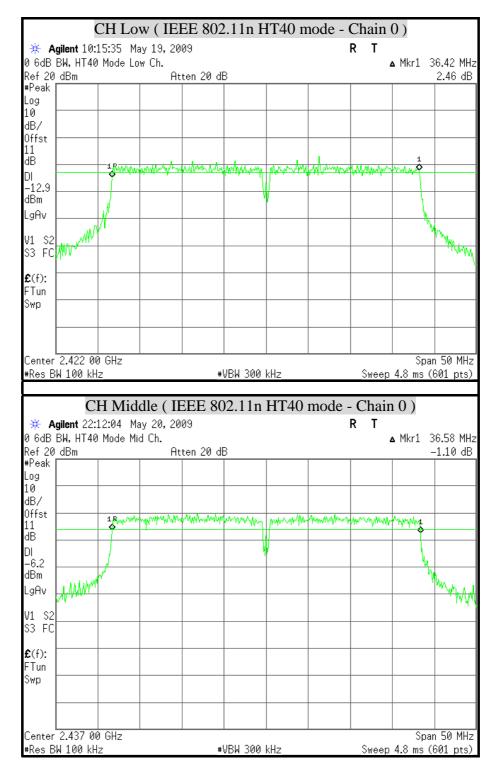


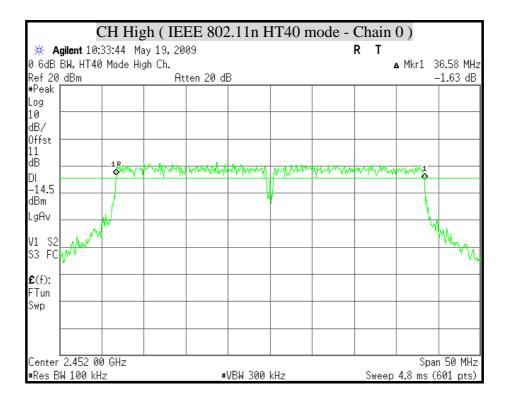


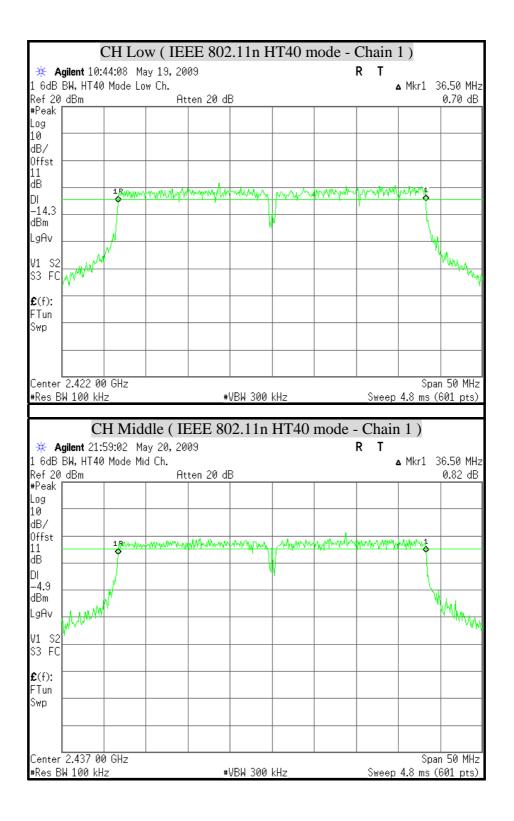


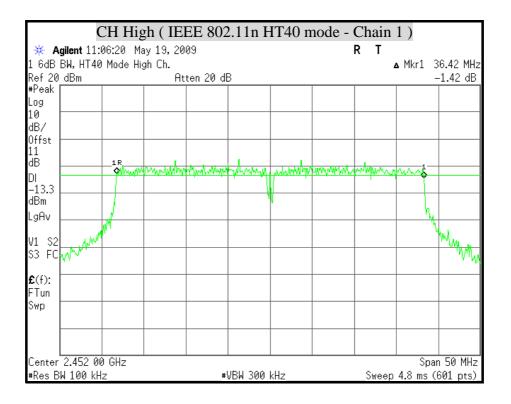


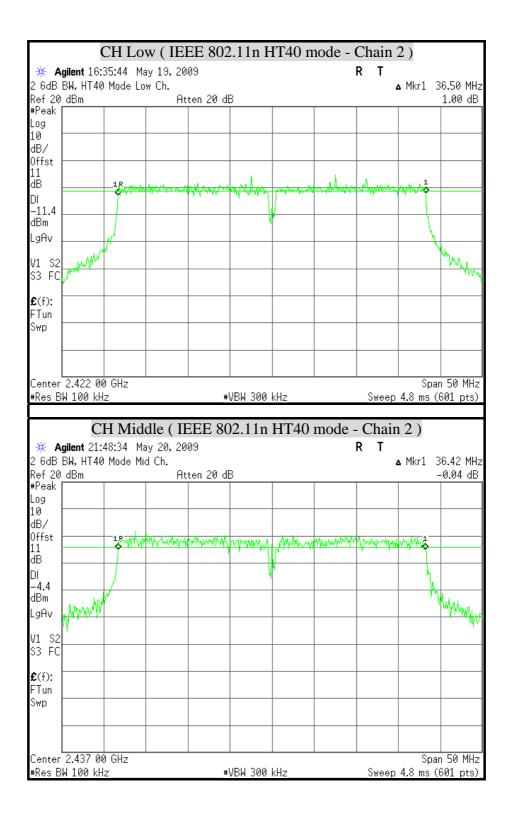
6dB BANDWIDTH (IEEE 802.11n HT40 mode)

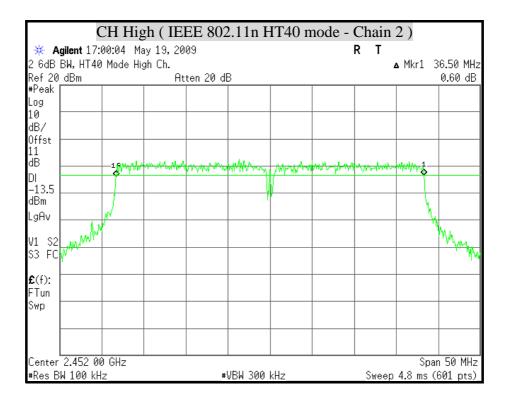


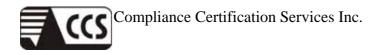












8.2 99% **BANDWIDTH**

LIMIT

None; for reporting purposes only.

TEST EQUIPMENT

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|----------------------|--------------|--------|---------------|------------------------|
| SPECTRUM ANALYZER | AGILENT | E4446A | MY43360132 | 06/05/2009 |
| SPECTRUM ANALYZER | AGILENT | E4446A | MY46180323 | 05/26/2010 |

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

TEST SETUP

TEST PROCEDURE

- 1. The spectrum shall be set as follows :
 - Span : The minimum span to fully display the emission and approximately 20dB below peak level.

RBW : The set to 1% to 3% of the approximate emission width.

- 2. Compute the combined power of all signal responses contained in the trace by covering all the data points.
- 3. For 99% occupied BW, place the markers at the frequency at which 0.5% of the power lies to the right of the right marker and 0.5% of the power lies to the left of the left marker.
- 4. The 99% BW is the bandwidth between the right and left markers.

TEST RESULTS

No non-compliance noted

IEEE 802.11b mode (Three TX)

| Channel | Channel Frequency (MHz) | 99% Occupied power bandwidth (MHz) | | | | |
|---------|----------------------------|---------------------------------------|---------|---------|--|--|
| | (1 V1112) | Chain 0 | Chain 1 | Chain 2 | | |
| Low | 2412 | 15.55 | 15.54 | 15.73 | | |
| Middle | 2437 | 15.42 | 15.77 | 15.60 | | |
| High | 2462 | 15.58 | 15.41 | 15.52 | | |

IEEE 802.11g mode (Three TX)

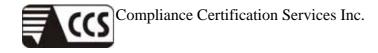
| Channel | Channel Frequency (MHz) | 99% Occupied power bandwidth (MHz) | | | | |
|---------|----------------------------|---------------------------------------|---------|---------|--|--|
| | (1 V1112) | Chain 0 | Chain 1 | Chain 2 | | |
| Low | 2412 | 16.35 | 16.44 | 16.33 | | |
| Middle | 2437 | 16.37 | 16.40 | 16.25 | | |
| High | 2462 | 16.37 | 16.47 | 16.36 | | |

IEEE 802.11n HT20 mode (Three TX)

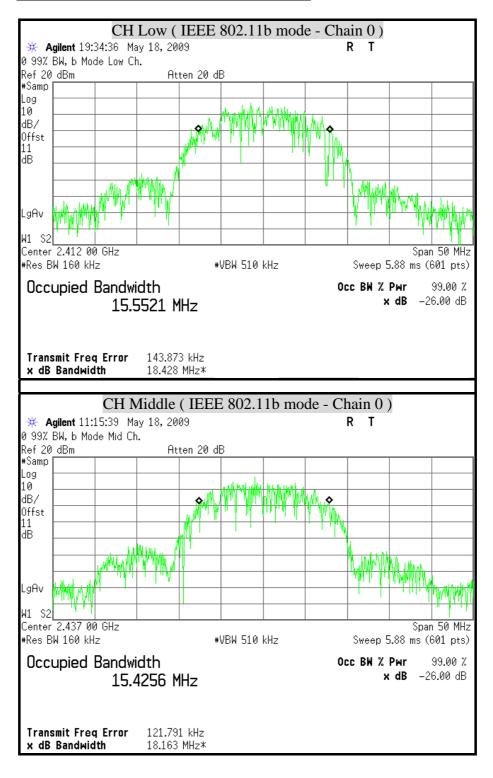
| Channel | Channel Frequency (MHz) | 99% Occupied power bandwidth (MHz) | | | | |
|---------|----------------------------|---------------------------------------|---------|---------|--|--|
| | (1 11112) | Chain 0 | Chain 1 | Chain 2 | | |
| Low | 2412 | 17.65 | 17.74 | 17.70 | | |
| Middle | 2437 | 17.67 | 17.66 | 17.60 | | |
| High | 2462 | 17.65 | 17.57 | 17.56 | | |

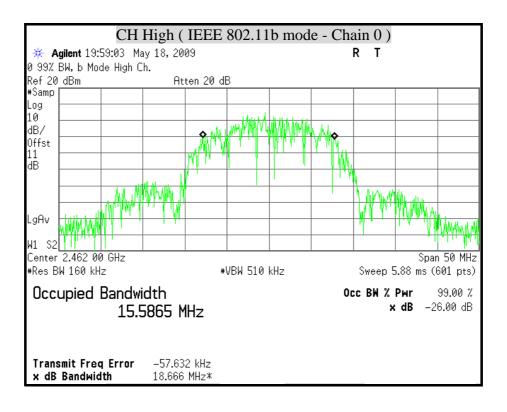
IEEE 802.11n HT40 mode (Three TX)

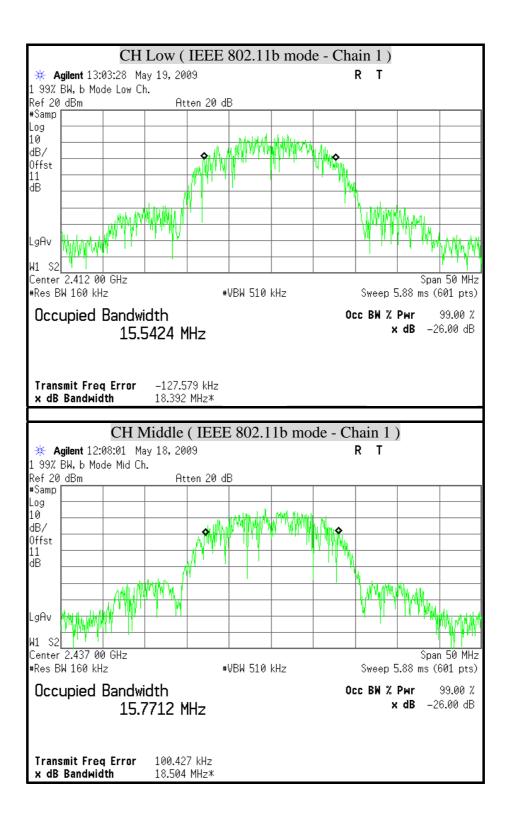
| Channel | Channel Frequency (MHz) | 99% Occupied power bandwidth (MHz) | | | |
|---------|----------------------------|---------------------------------------|---------|---------|--|
| | (1 V1112) | Chain 0 | Chain 1 | Chain 2 | |
| Low | 2422 | 36.22 | 36.27 | 36.28 | |
| Middle | 2437 | 36.23 | 36.20 | 36.33 | |
| High | 2452 | 36.37 | 36.28 | 36.26 | |

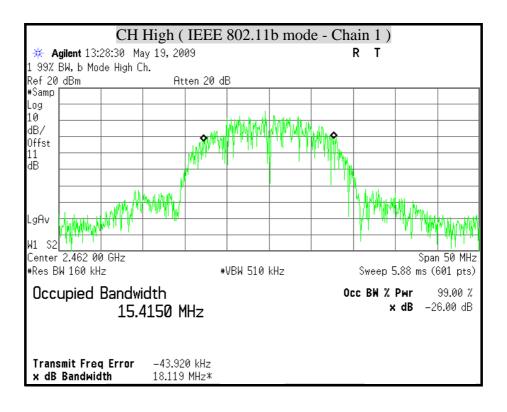


99% BANDWIDTH (IEEE 802.11b mode)

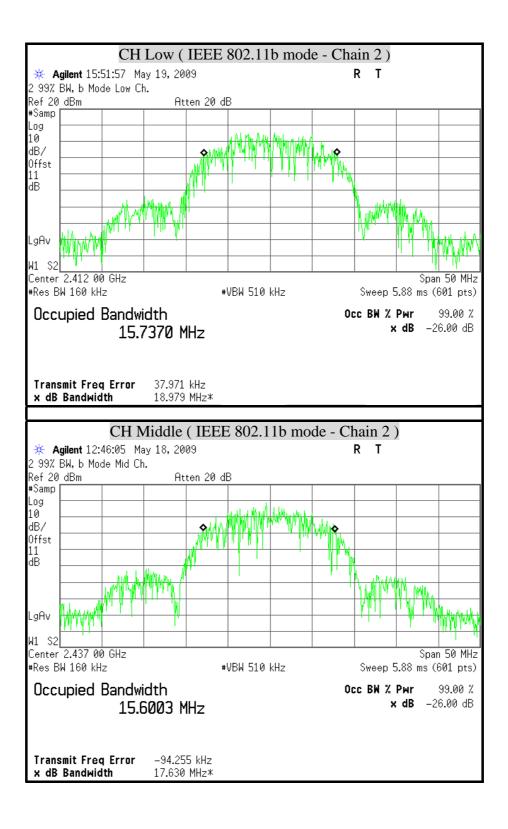


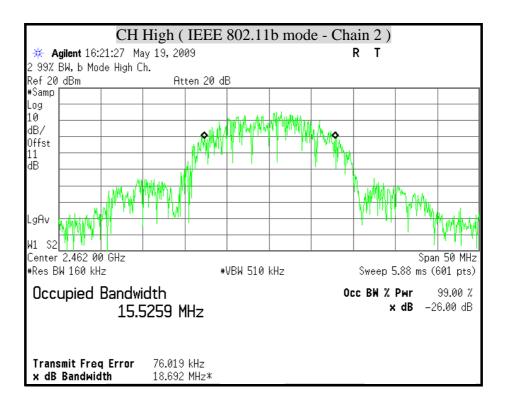


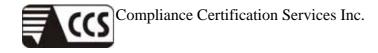




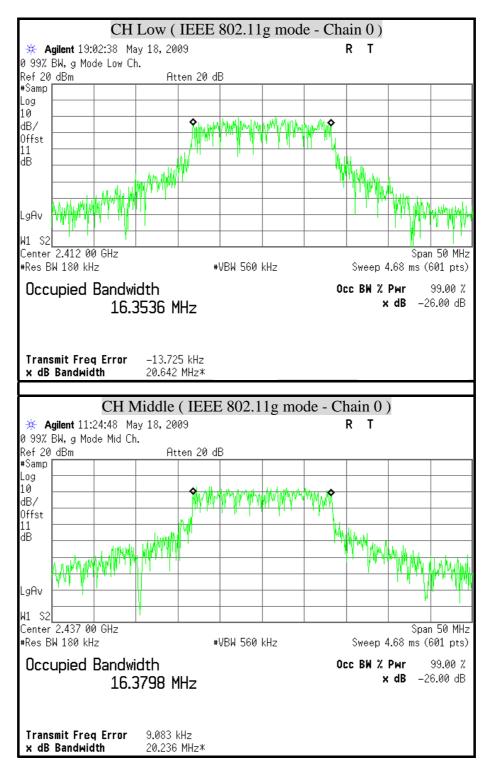




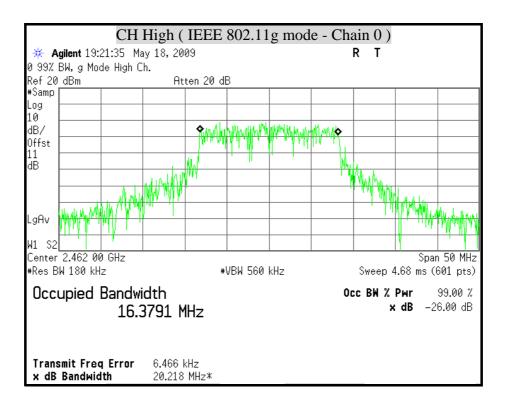


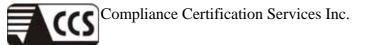


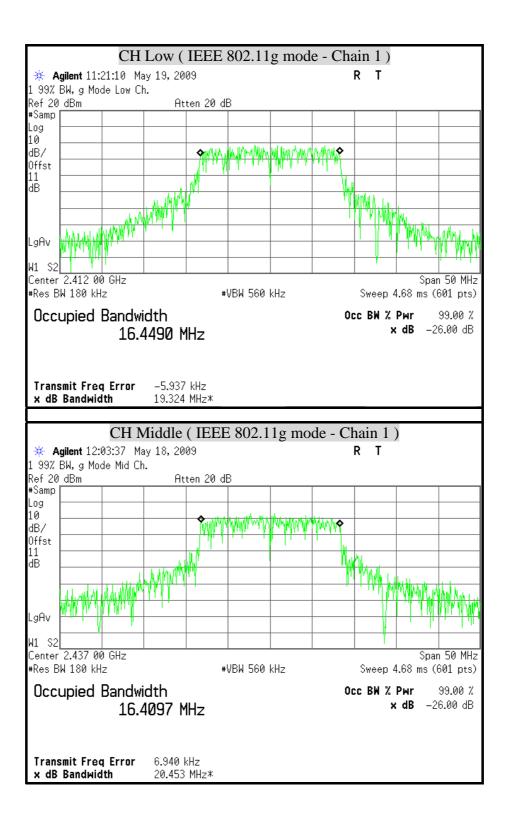
99% BANDWIDTH (IEEE 802.11g mode)



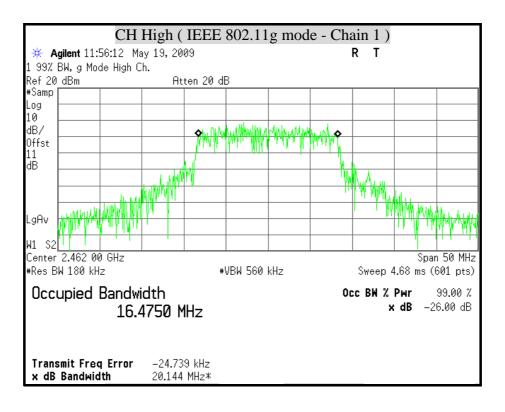


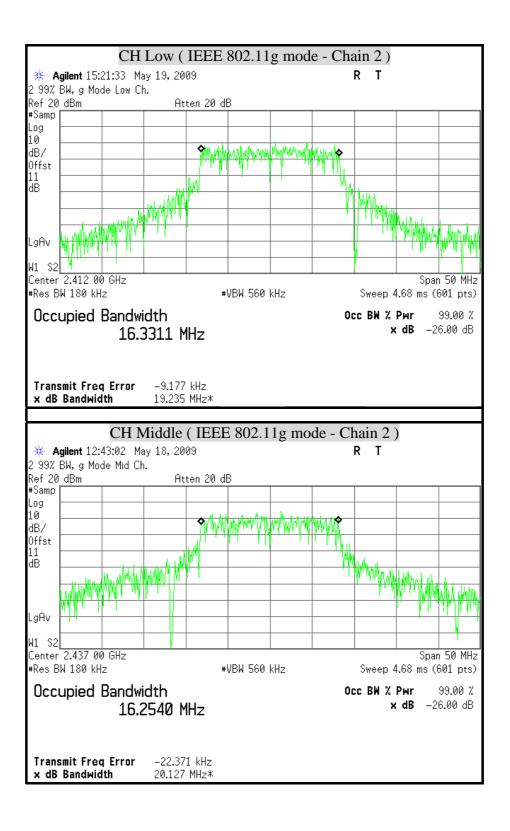




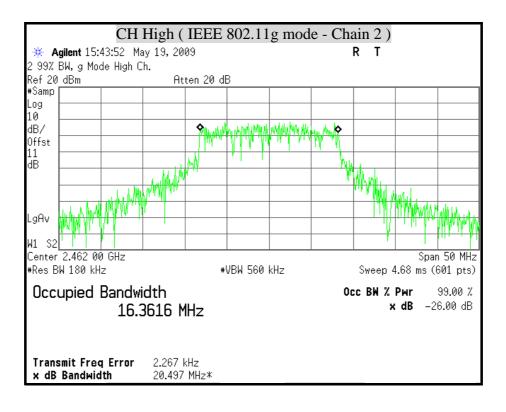


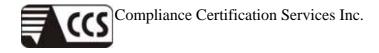




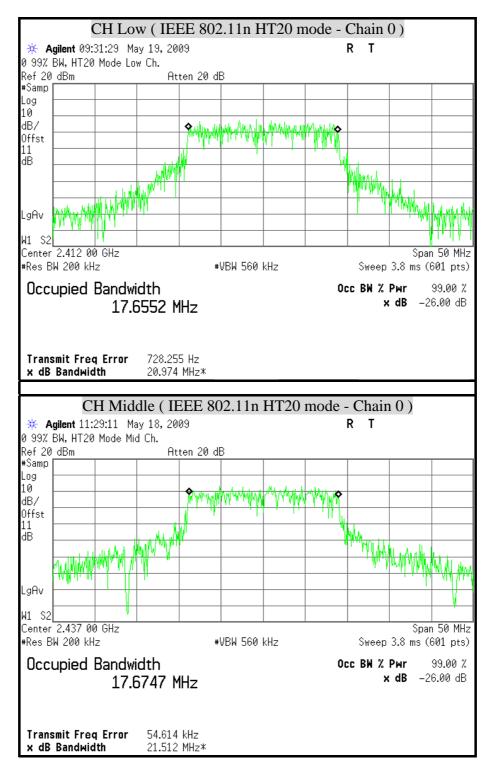




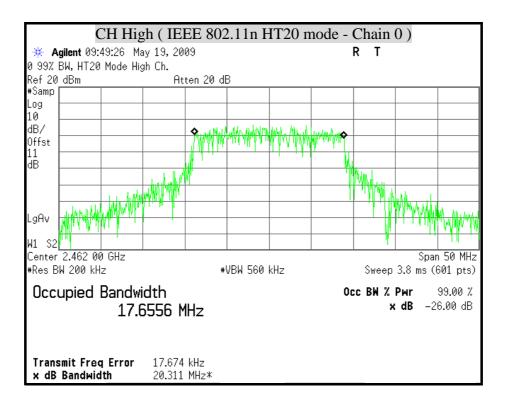


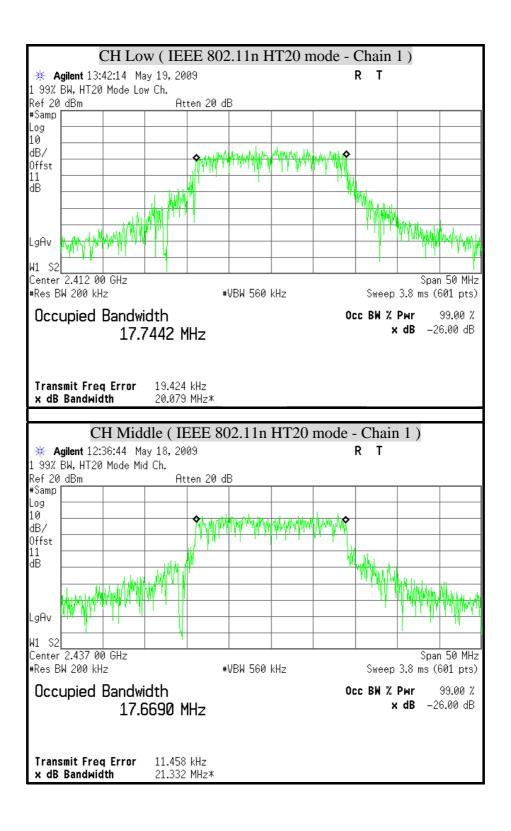


99% BANDWIDTH (IEEE 802.11n HT20 mode)

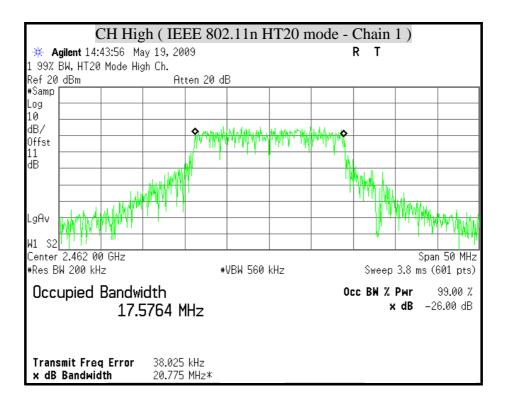


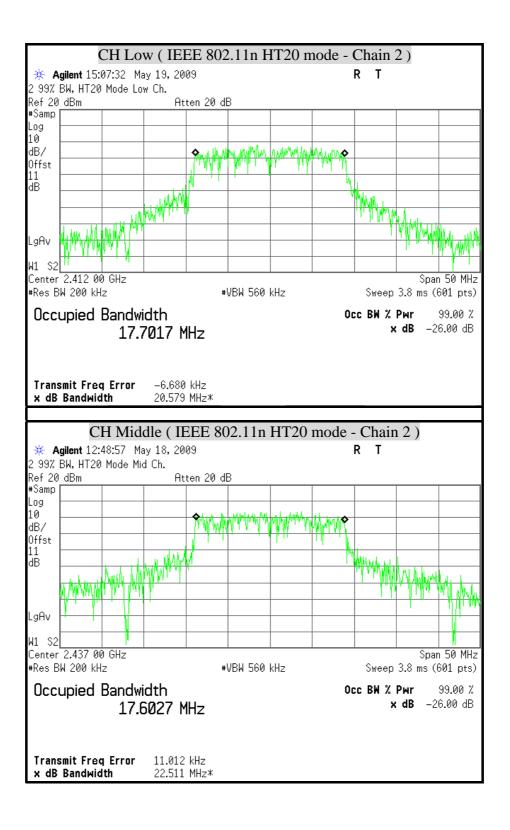




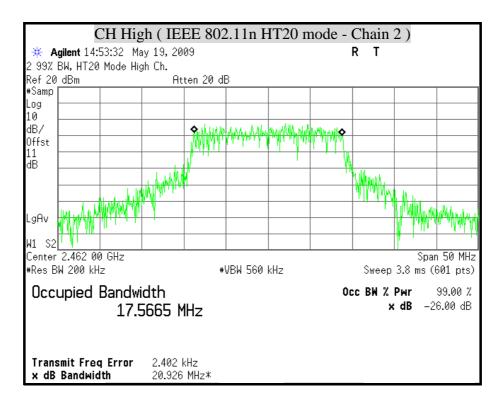


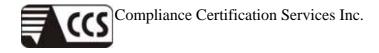




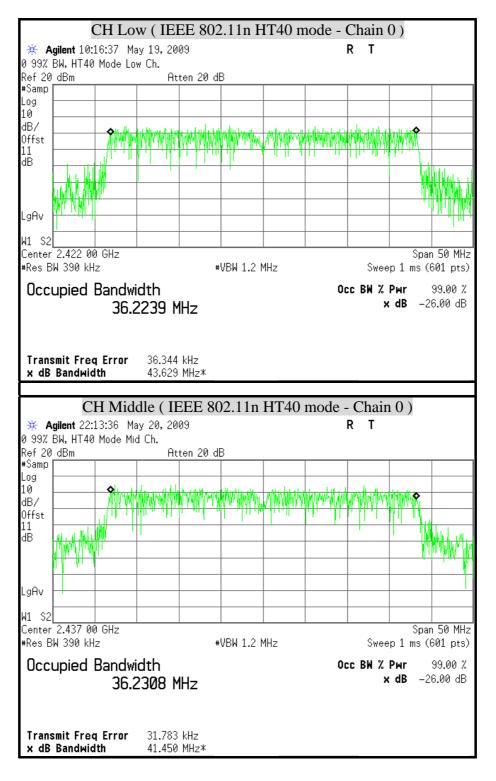


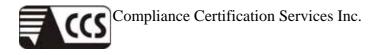


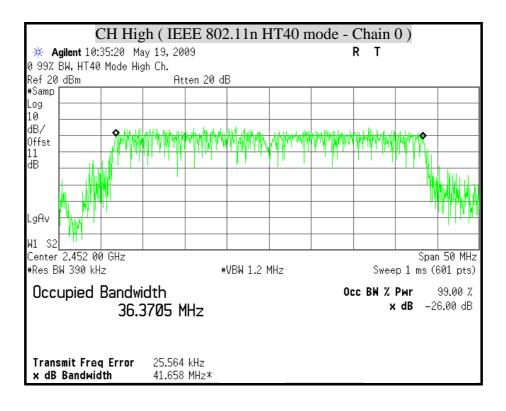


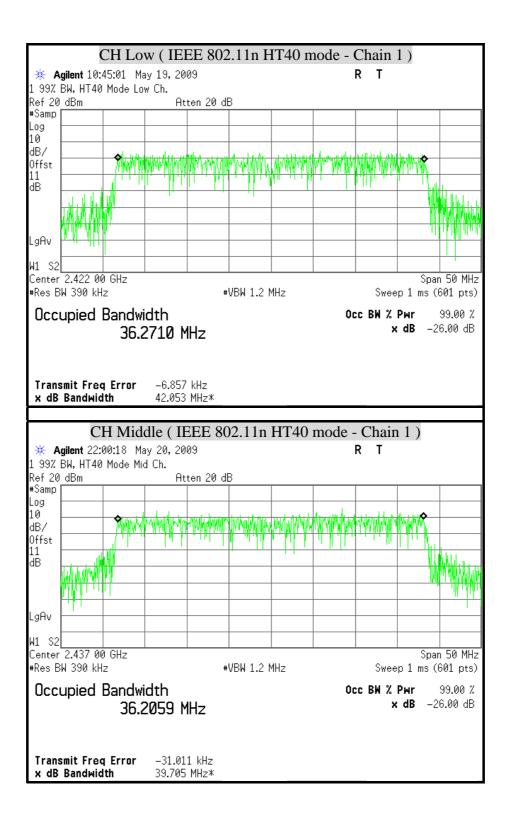


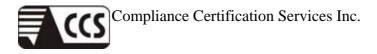
99% BANDWIDTH (IEEE 802.11n HT40 mode)

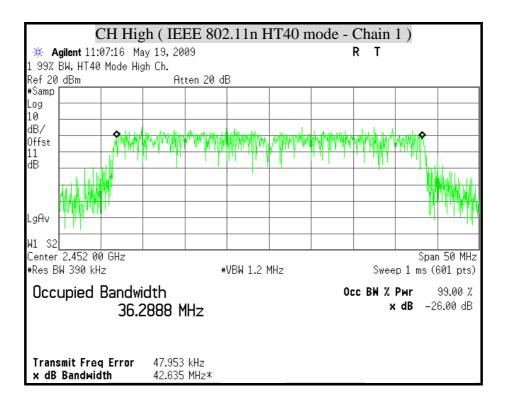


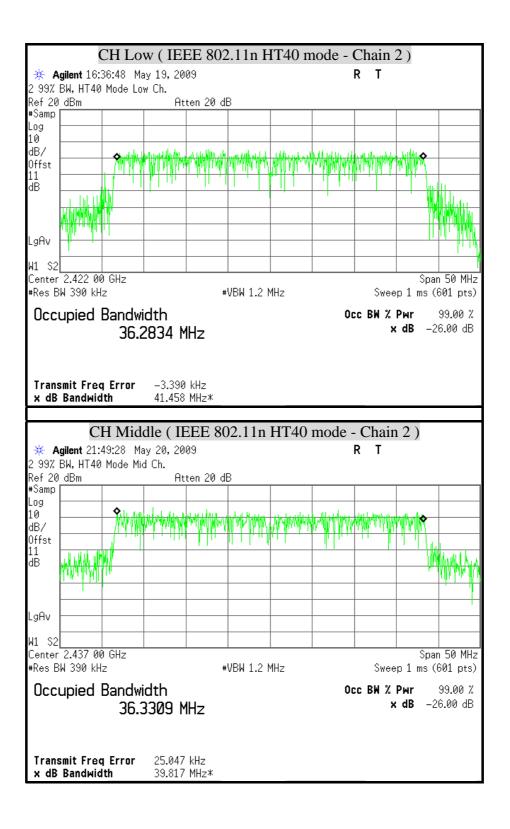


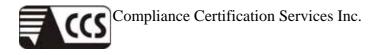


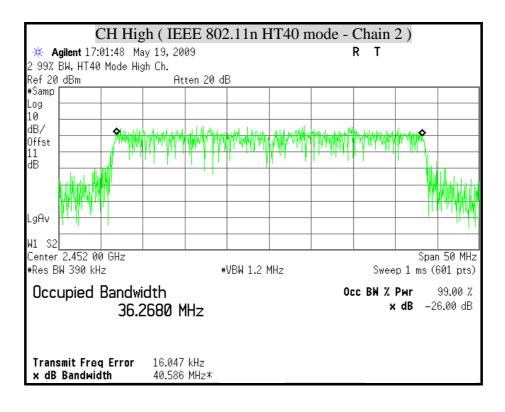


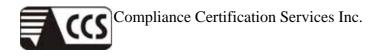












FCC ID : KA2AP1353B1 Report No. : 90407002-RP1 Page <u>65</u> of <u>213</u>

8.3 MAXIMUM PEAK OUTPUT POWER

LIMIT

§ 15.247(b) The maximum peak output power of the intentional radiator shall not exceed the following :

§ 15.247(b) (3) For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands : 1 watt.

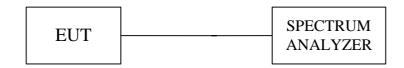
§ 15.247(b) (4) Except as shown in paragraphs (c) of this section , if transmitting antennas of directional gain greater than 6 dBi are used the peak output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1) or (b)(2), and (b)(3) of this section , as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

TEST EQUIPMENT

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|----------------------|--------------|--------|---------------|------------------------|
| SPECTRUM ANALYZER | AGILENT | E4446A | MY43360132 | 06/05/2009 |
| SPECTRUM ANALYZER | AGILENT | E4446A | MY46180323 | 05/26/2010 |

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

TEST SETUP



TEST PROCEDURE

1. The spectrum shall be set as follows :

Span : 1.5 times channel integration bandwidth.

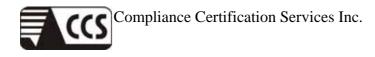
RBW: 1MHz

VBW : 3MHz

Detector : Peak

Sweep : Single trace

- 2. Compute the combined power of all signal responses contained in the trace by covering all the data points.
- 3. For 99% occupied BW, place the markers at the frequency at which 0.5% of the power lies to the right of the right marker and 0.5% of the power lies to the left of the left marker.
- 4. The peak output power is the channel power integrated over 99% bandwidth.



TEST RESULTS

No non-compliance noted

Total peak power calculation formula: 10 log (10[^] (Chain 0 Power / 10) + 10[^] (Chain1 Power / 10) + 10[^] (Chain2 Power / 10))

The maximum antenna gain is 3 dBi, therefore the limit is 30 dBm. In the legacy mode, the effective antenna gain is $3 + 10 \times \text{Log}(3) = 7.77$ dBi.

IEEE 802.11b mode

| Channel Channel Frequency | | P | eak Powo (dBm) | er | Peak Power Total | Peak Power | Pass / Fail |
|------------------------------|-------|-------|-------------------|-------|---------------------|---------------|-------------|
| Chamiler | (MHz) | • | Chain 2 | | Limit (dBm) | 1 ass / 1 an | |
| Low | 2412 | 20.30 | 20.11 | 20.63 | 25.12 | 28.23 | PASS |
| Middle | 2437 | 20.91 | 20.33 | 21.78 | 25.81 | 28.23 | PASS |
| High | 2462 | 18.59 | 18.18 | 19.51 | 23.56 | 28.23 | PASS |

Remark:

1. At finial test to get the worst-case emission at 1Mbps.

2. The cable assembly insertion loss of 11dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

| Channel Frequency | | Peak Power (dBm) | | | Peak Power Total | Peak Power | Pass / Fail |
|-------------------|-------|---------------------|---------|---------|---------------------|----------------|--------------|
| Channel | (MHz) | Chain 0 | Chain 1 | Chain 2 | | Limit (dBm) | 1 ass / 1 an |
| Low | 2412 | 17.02 | 16.63 | 17.18 | 21.72 | 28.23 | PASS |
| Middle | 2437 | 20.84 | 20.51 | 21.73 | 25.82 | 28.23 | PASS |
| High | 2462 | 15.60 | 15.02 | 16.10 | 20.36 | 28.23 | PASS |

IEEE 802.11g mode

Remark:

1. At finial test to get the worst-case emission at 6Mbps.

2. The cable assembly insertion loss of 11dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

| Channel | Channel Peak Power Frequency (dBm) | | er | Peak Power Total | Peak Power | Pass / Fail | |
|---------|---------------------------------------|---------|---------|---------------------|---------------|----------------|---------------|
| | (MHz) | Chain 0 | Chain 1 | Chain 2 | (dBm) | Limit (dBm) | 1 a55 / 1 all |
| Low | 2412 | 14.65 | 14.46 | 15.18 | 19.54 | 30.00 | PASS |
| Middle | 2437 | 20.75 | 20.80 | 21.62 | 25.84 | 30.00 | PASS |
| High | 2462 | 13.98 | 13.15 | 14.57 | 18.70 | 30.00 | PASS |

IEEE 802.11n HT20 mode (Three TX)

Remark:

1. At finial test to get the worst-case emission at 6.5Mbps.

2. The cable assembly insertion loss of 11dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

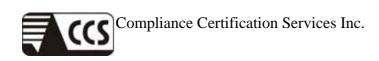
| Channel Frequency | | Peak Power (dBm) | | | Peak Power Total | Peak Power | Pass / Fail |
|-------------------|-------|---------------------|-------------------------|-------|---------------------|---------------|-------------|
| Channel | (MHz) | Chain 0 | Chain 0 Chain 1 Chain 2 | | Limit (dBm) | 1 ass / 1 an | |
| Low | 2422 | 11.74 | 11.72 | 12.36 | 16.72 | 30.00 | PASS |
| Middle | 2437 | 20.98 | 20.37 | 21.50 | 25.74 | 30.00 | PASS |
| High | 2452 | 12.25 | 11.93 | 12.95 | 17.16 | 30.00 | PASS |

IEEE 802.11n HT40 mode (Three TX)

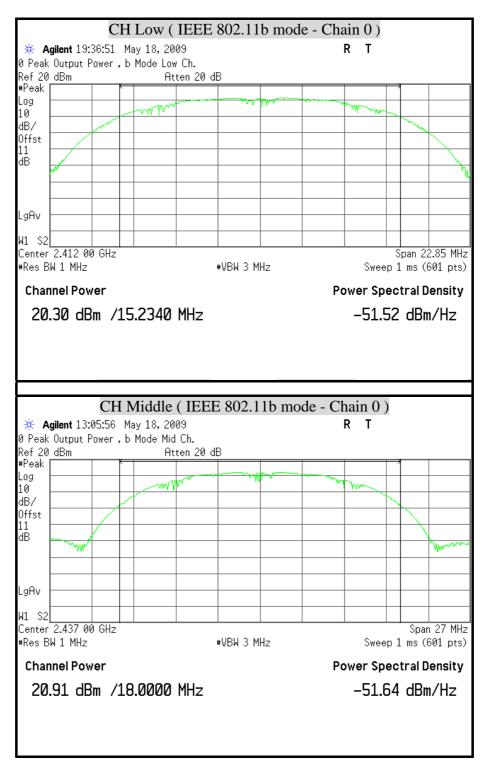
Remark:

1. At finial test to get the worst-case emission at 13.5Mbps.

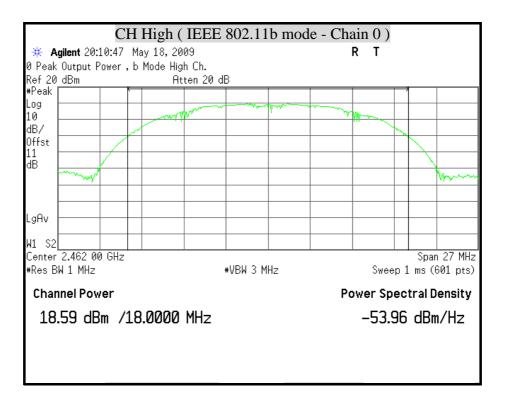
2. The cable assembly insertion loss of 11dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

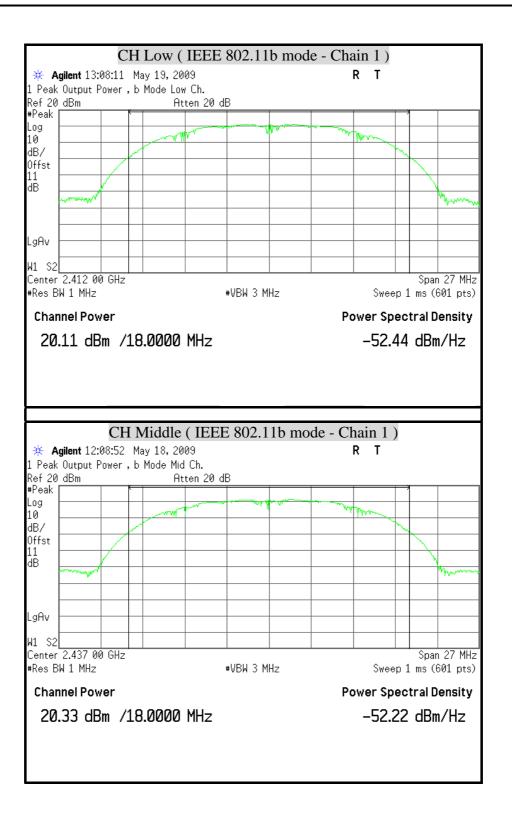


MAXIMUM PEAK OUTPUT POWER (IEEE 802.11b mode)

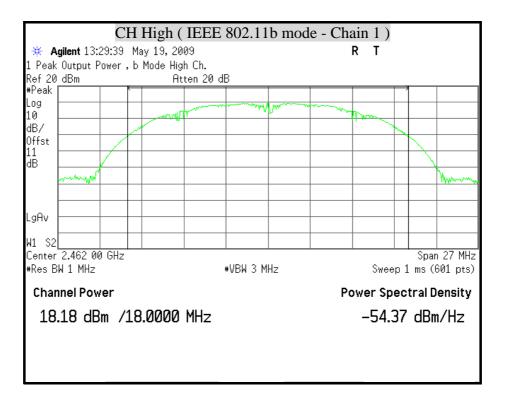


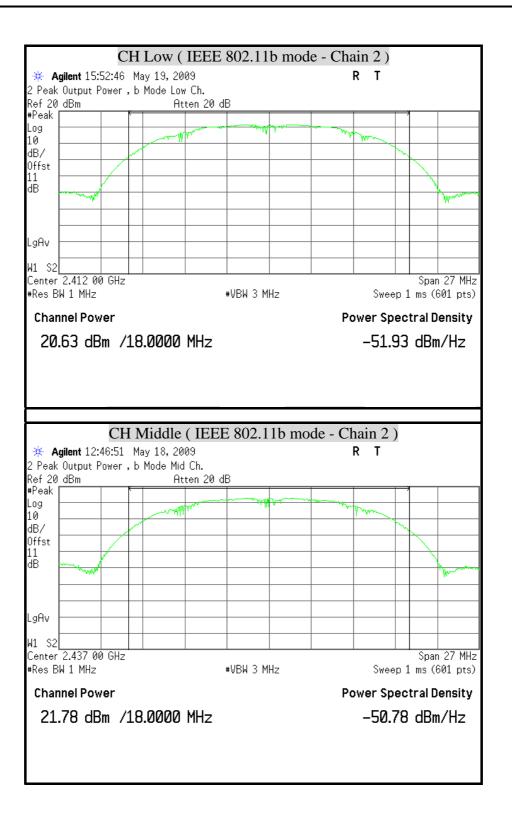




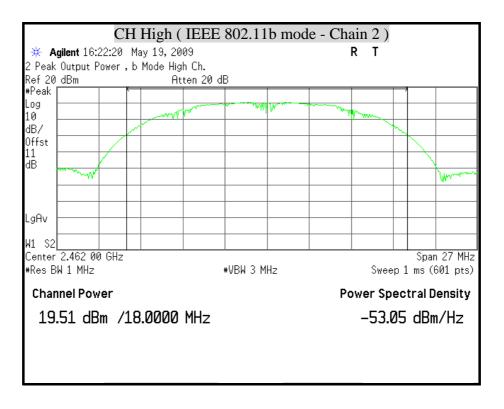


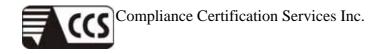




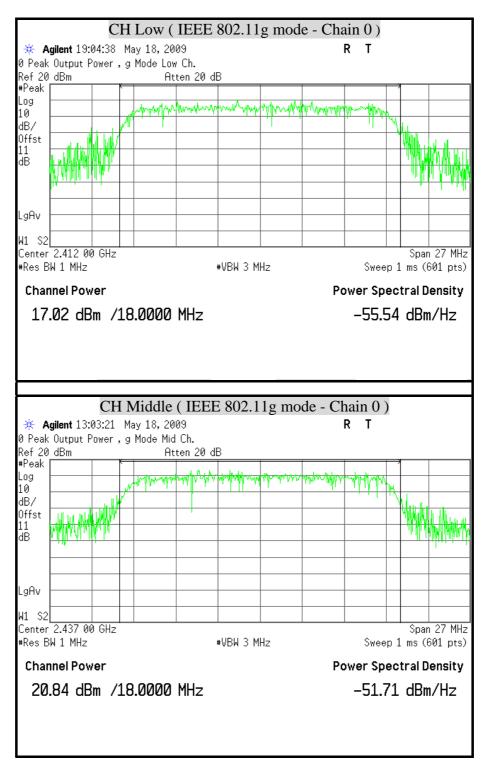




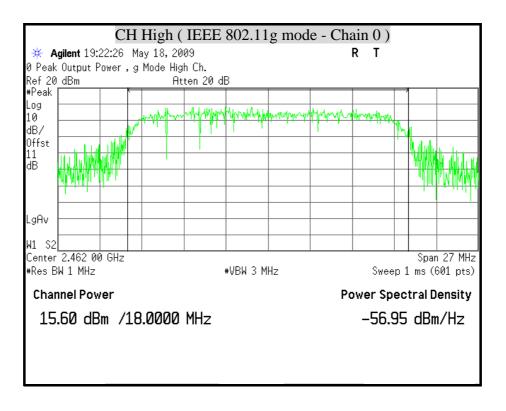




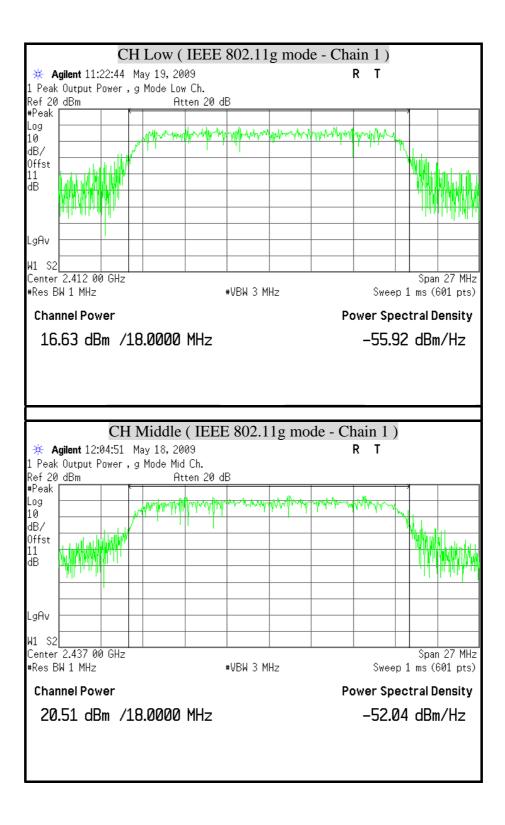
MAXIMUM PEAK OUTPUT POWER (IEEE 802.11g mode)



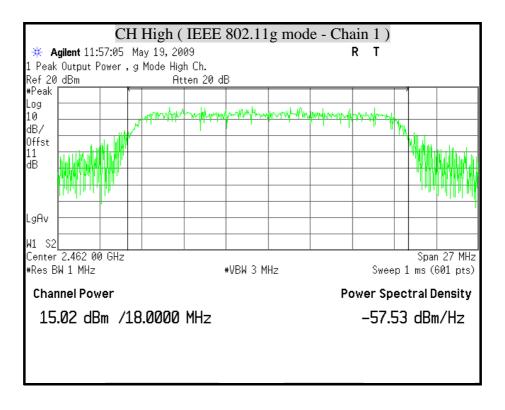




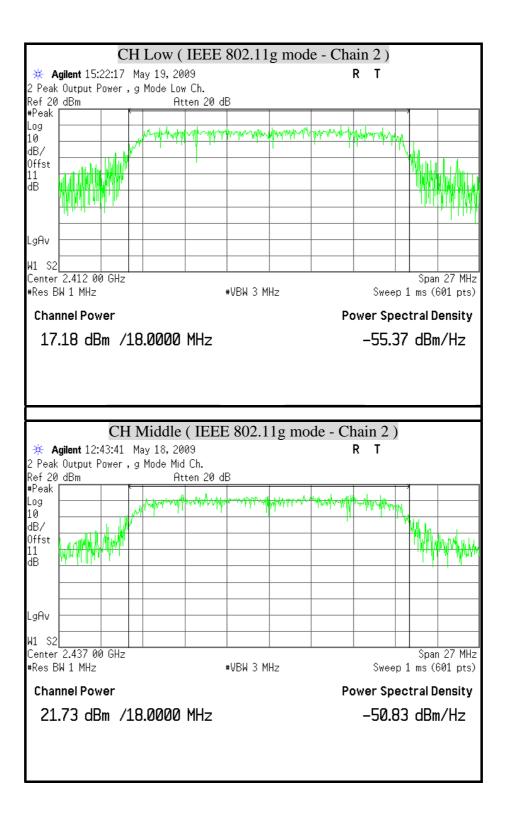




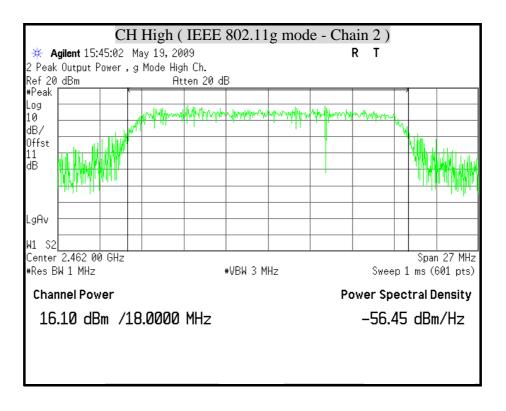


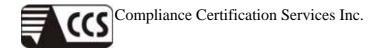




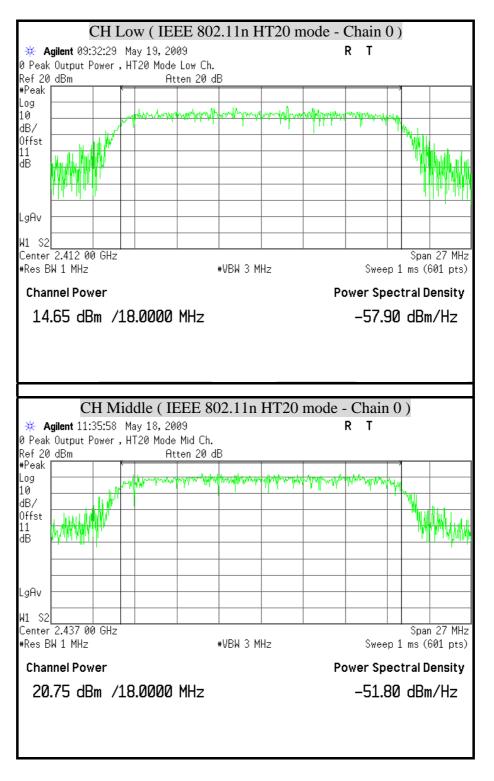


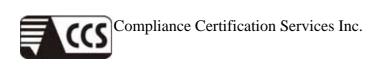


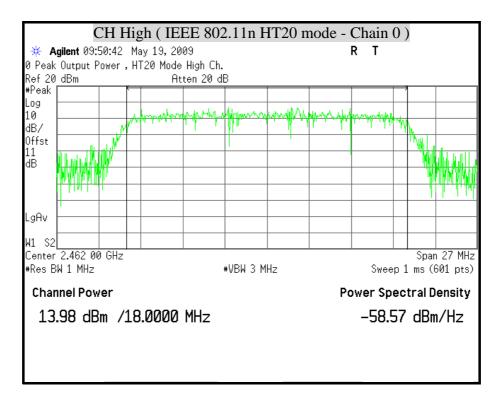


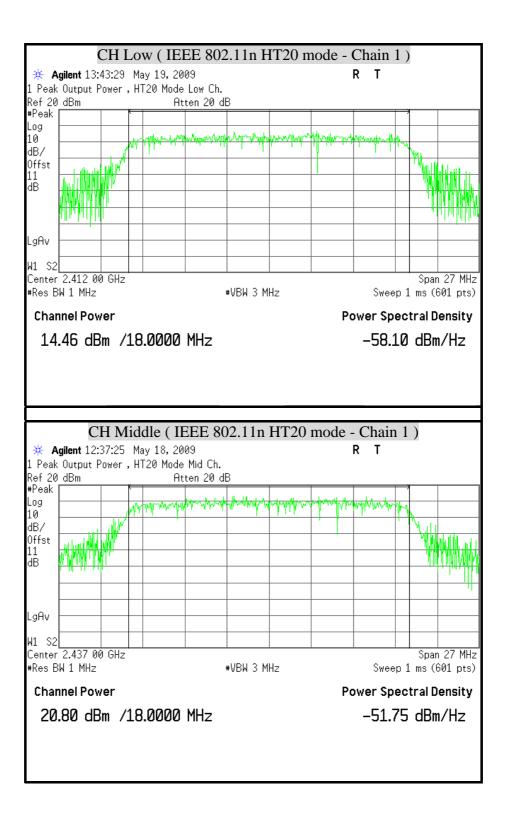


MAXIMUM PEAK OUTPUT POWER (IEEE 802.11n HT20 mode)

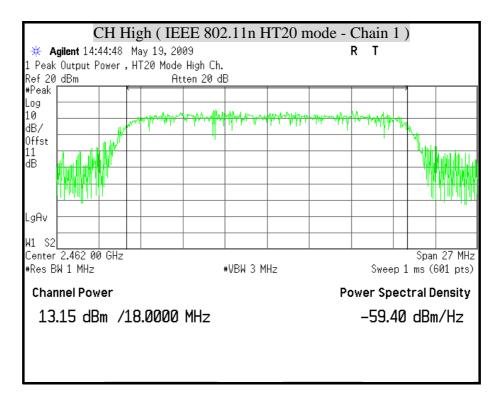


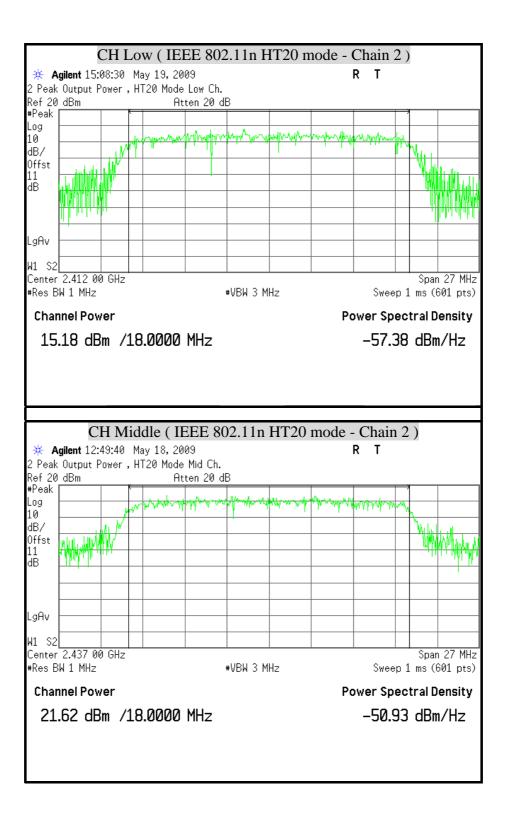




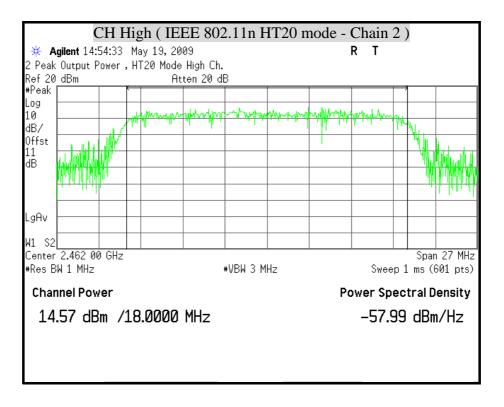


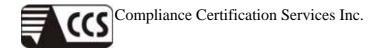








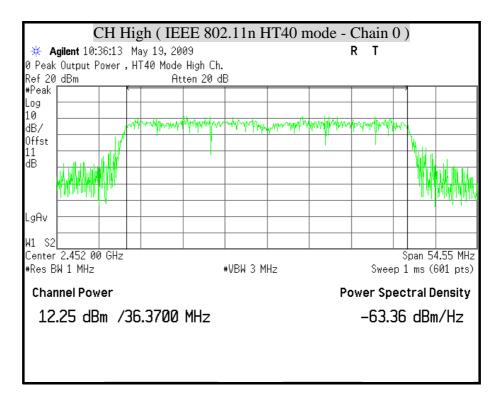


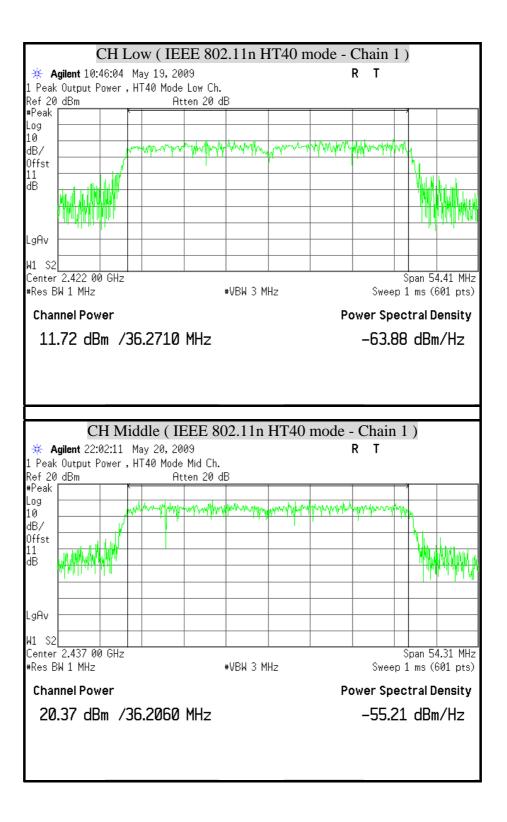


CH Low (IEEE 802.11n HT40 mode - Chain 0) 🔆 Agilent 10:17:32 May 19, 2009 R Т 0 Peak Output Power , HT40 Mode Low Ch. Atten 20 dB Ref 20 dBm #Peak Log 10 dB/ Offst 11 dB LgAv W1 S2 Center 2.422 00 GHz Span 54.34 MHz #Res BW 1 MHz ₩VBW 3 MHz Sweep 1 ms (601 pts) **Channel Power Power Spectral Density** 11.74 dBm /36.2240 MHz -63.85 dBm/Hz CH Middle (IEEE 802.11n HT40 mode - Chain 0) 🔆 Agilent 22:14:35 May 20, 2009 R T 0 Peak Output Power , HT40 Mode Mid Ch. Ref 20 dBm Atten 20 dB #Peak Log Mar 10 dB/ Offst dB LgAv W1 S2 Center 2.437 00 GHz Span 54.35 MHz #Res BW 1 MHz #VBW 3 MHz Sweep 1 ms (601 pts) **Channel Power Power Spectral Density** 20.98 dBm /36.2310 MHz -54.62 dBm/Hz

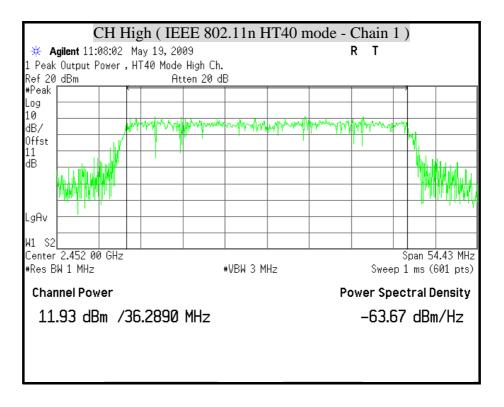
MAXIMUM PEAK OUTPUT POWER (IEEE 802.11n HT40 mode)

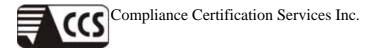


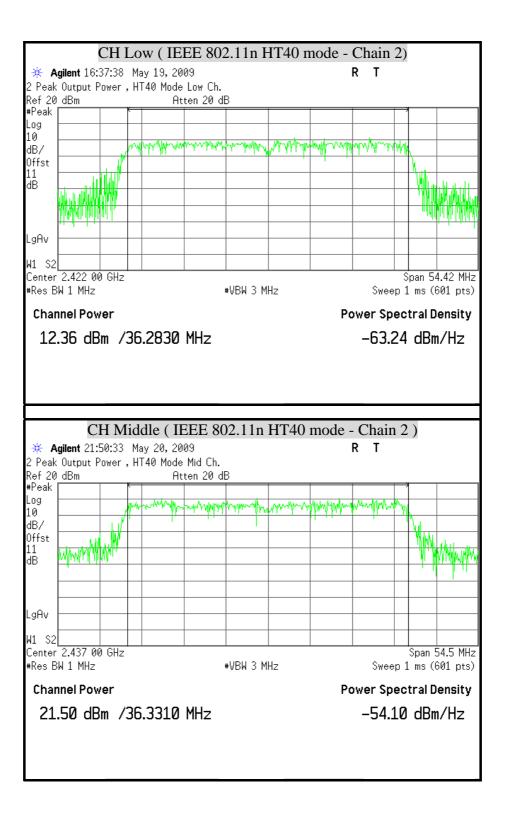




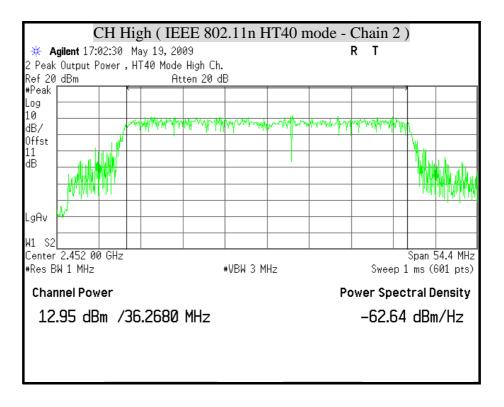


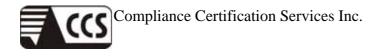












8.4 MAXIMUM PERMISSIBLE EXPOSURE

According to FCC 1.1310 : The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm ²) | Average Time | | | |
|--------------------------|---|----------------------------------|--|-----------------------------------|--|--|--|
| | (A) Limits for Occupational / Control Exposures | | | | | | |
| 300-1,500 | | | F/300 | 6 | | | |
| 1,500-100,000 | | | 5 | 6 | | | |
| | (B) Limits for Genera | al Population / Unco | ontrol Exposures | | | | |
| 300-1,500 | | | F/1500 | | | | |
| 1,500-100,000 | | | 1 | Average Time 6 6 6 30 | | | |

CALCULATIONS

Given

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

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

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

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P(mW) = P(W) / 1000$$
 and
 $d(cm) = d(m) / 100$

Yields

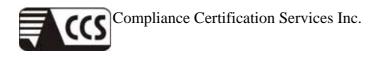
$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$

Where d = Distance in cm

$$P = Power in mW$$

G = Numeric antenna gain

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



LIMIT

Power Density Limit, S=1.0mW/cm²

TEST RESULTS

No non-compliance noted

| Mode | Antenna Gain (dBi) | Minimum separation distance (cm) | Output Power (dBm) | Numeric antenna gain (dB) | Power Density Limit (mW/cm ²) | Power Density at 20cm (mW/cm ²) |
|-------------------|--------------------------|---|--------------------------|------------------------------------|--|--|
| IEEE 802.11b | 3 | 20.0 | 25.81 | 2 | 1.00 | 0.151259 |
| IEEE 802.11g | 3 | 20.0 | 25.82 | 2 | 1.00 | 0.151607 |
| IEEE 802.11n HT20 | 3 | 20.0 | 25.84 | 2 | 1.00 | 0.152307 |
| IEEE 802.11n HT40 | 3 | 20.0 | 25.74 | 2 | 1.00 | 0.148840 |

Remark: For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm² even if the calculation indicates that the power density would be larger.



8.5 AVERAGE POWER

LIMIT

None; for reporting purposes only.

TEST EQUIPMENT

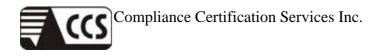
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|----------------------|--------------|--------|---------------|------------------------|
| SPECTRUM ANALYZER | AGILENT | E4446A | MY43360132 | 06/05/2009 |
| SPECTRUM ANALYZER | AGILENT | E4446A | MY46180323 | 05/26/2010 |

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

TEST SETUP

TEST PROCEDURE

The transmitter output is connected to a spectrum analyzer.



TEST RESULTS

No non-compliance noted

Total avg power calculation formula: 10 log (10[^] (Chain 0 Power / 10) + 10[^] (Chain1 Power / 10) + 10[^] (Chain2 Power / 10))

| Channel | Channel Frequency | A | Average Powe (dBm) | Average Power Total | |
|---------|----------------------|---------|-----------------------|------------------------|-------|
| | (MHz) | Chain 0 | Chain 1 | (dBm) | |
| Low | 2412 | 17.72 | 17.43 | 18.32 | 22.61 |
| Middle | 2437 | 18.39 | 17.73 | 19.15 | 23.23 |
| High | 2462 | 15.98 | 15.69 | 16.97 | 21.01 |

IEEE 802.11b mode (Three TX)

Remark:

1. At finial test to get the worst-case emission at 1Mbps.

2. The cable assembly insertion loss of 11dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

| Channel | Channel Frequency | A | Average Powe (dBm) | Average Power Total | |
|---------|----------------------|---------|-----------------------|------------------------|-------|
| | (MHz) | Chain 0 | Chain 1 | (dBm) | |
| Low | 2412 | 13.83 | 13.12 | 13.73 | 18.34 |
| Middle | 2437 | 17.39 | 16.93 | 18.20 | 22.30 |
| High | 2462 | 12.00 | 11.53 | 12.86 | 16.93 |

IEEE 802.11g mode (Three TX)

Remark:

1. At finial test to get the worst-case emission at 6Mbps.

2. The cable assembly insertion loss of 11dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

| Channel | Channel Frequency | A | Average Powe (dBm) | Average Power Total | |
|---------|----------------------|---------|-----------------------|------------------------|-------|
| | (MHz) | Chain 0 | Chain 1 | Chain 2 | (dBm) |
| Low | 2412 | 11.55 | 11.11 | 11.96 | 16.32 |
| Middle | 2437 | 17.37 | 17.12 | 18.03 | 22.29 |
| High | 2462 | 10.83 | 10.01 | 11.23 | 15.49 |

IEEE 802.11n HT20 mode (Three TX)

Remark:

1. At finial test to get the worst-case emission at 6.5Mbps.

2. The cable assembly insertion loss of 11dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

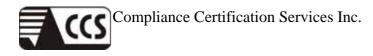
| Channel | Channel Frequency | A | Average Powe (dBm) | Average Power Total | |
|---------|----------------------|---------|-----------------------|------------------------|-------|
| | (MHz) | Chain 0 | Chain 1 | (dBm) | |
| Low | 2422 | 8.75 | 8.39 | 9.17 | 13.55 |
| Middle | 2437 | 17.27 | 16.95 | 18.05 | 22.21 |
| High | 2452 | 8.95 | 8.54 | 9.72 | 13.86 |

IEEE 802.11n HT40 mode (Three TX)

Remark:

1. At finial test to get the worst-case emission at 13.5Mbps.

2. The cable assembly insertion loss of 11dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.



 FCC ID
 : KA2AP1353B1

 Report No. : 90407002-RP1

 Page
 97 of 213

8.6 POWER SPECTRAL DENSITY

LIMIT

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

TEST EQUIPMENT

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|----------------------|--------------|--------|---------------|------------------------|
| SPECTRUM ANALYZER | AGILENT | E4446A | MY43360132 | 06/05/2009 |
| SPECTRUM ANALYZER | AGILENT | E4446A | MY46180323 | 05/26/2010 |

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

TEST SETUP



Combined mode

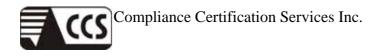
| EUT | Chain 0 Chain 1 Chain 2 | COMBINED | | SPECTRUM ANALYZER |
|-----|-------------------------------|----------|--|----------------------|
|-----|-------------------------------|----------|--|----------------------|

TEST PROCEDURE

The transmitter output was connected to the spectrum analyzer, the bandwidth of the fundamental frequency was measured with the spectrum analyzer using RBW = 3KHz and VBW RBW, set sweep time = span / 3KHz.

The power spectral density was measured and recorded.

The sweep time is allowed to be longer than span / 3KHz for a full response of the mixer in the spectrum analyzer.



TEST RESULTS

No non-compliance noted

Total peak power calculation formula: $10 \log (10^{\circ} (Chain 0 PPSD / 10) + 10^{\circ} (Chain 1 PPSD / 10) + 10^{\circ} (Chain 2 PPSD / 10))$

| Channel | Channel Frequency (MHz) | Final RF Power Level in 3KHz BW (dBm) | | PPSD Total (dBm) | Maxmum Limit (dBm) | Pass / Fail | |
|---------|-------------------------------|---|---------|------------------------|--------------------------|-------------|------|
| | (191112) | Chain 0 | Chain 1 | Chain 2 | | (ubiii) | |
| Low | 2412 | -5.47 | -5.47 | -4.26 | -0.25 | 8 | PASS |
| Middle | 2437 | -6.34 | -5.45 | -4.14 | -0.44 | 8 | PASS |
| High | 2462 | -8.98 | -7.36 | -5.93 | -2.47 | 8 | PASS |

IEEE 802.11b mode (Three TX)

Remark:

1. At finial test to get the worst-case emission at 1Mbps.

2. The cable assembly insertion loss of 11dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

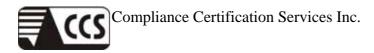
| Channel | Channel Frequency (MHz) | Final RF Power Level in 3KHz BW (dBm) | Maxmum Limit (dBm) | Pass / Fail |
|---------|-------------------------------|---|--------------------------|-------------|
| Low | 2412 | 3.67 | 8 | PASS |
| Middle | 2437 | 4.36 | 8 | PASS |
| High | 2462 | 2.93 | 8 | PASS |

IEEE 802.11b Combined mode (Three TX)

Remark:

1. At finial test to get the worst-case emission at 1Mbps.

2. The cable assembly insertion loss of 16.5dB (including 10 dB pad and 6.5 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.



| Channel | Channel Frequency (MHz) | Final RF Power Level in 3KHz BW (dBm) | | PPSD Total (dBm) | Maxmum Limit (dBm) | Pass / Fail | |
|---------|-------------------------------|---|---------|------------------------|--------------------------|-------------|------|
| | (101112) | Chain 0 | Chain 1 | Chain 2 | | (ubiii) | |
| Low | 2412 | -11.58 | -11.56 | -10.53 | -6.42 | 8 | PASS |
| Middle | 2437 | -6.90 | -7.56 | -6.29 | -2.11 | 8 | PASS |
| High | 2462 | -13.60 | -13.30 | -9.79 | -7.09 | 8 | PASS |

IEEE 802.11g mode (Three TX)

Remark:

1. At finial test to get the worst-case emission at 6Mbps.

2. The cable assembly insertion loss of 11dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

| Channel | Channel Frequency (MHz) | Final RF Power Level in 3KHz BW (dBm) | Maxmum Limit (dBm) | Pass / Fail |
|---------|-------------------------------|---|--------------------------|-------------|
| Low | 2412 | -1.45 | 8 | PASS |
| Middle | 2437 | 2.58 | 8 | PASS |
| High | 2462 | -3.46 | 8 | PASS |

IEEE 802.11g Combined mode (Three TX)

Remark:

1. At finial test to get the worst-case emission at 6Mbps.

2. The cable assembly insertion loss of 16.5dB (including 10 dB pad and 6.5 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

| Channel | Channel Frequency | | al RF Pov el in 3KHz (dBm) | | PPSD Total (dBm) | Maxmum Limit | Pass / Fail | |
|---------|----------------------|---------|----------------------------------|---------|------------------------|-----------------|-------------|--|
| | (MHz) | Chain 0 | Chain 1 | Chain 2 | () | (dBm) | | |
| Low | 2412 | -11.77 | -14.14 | -12.75 | -8.00 | 8 | PASS | |
| Middle | 2437 | -4.97 | -8.80 | -4.92 | -1.12 | 8 | PASS | |
| High | 2462 | -10.74 | -15.42 | -9.47 | -6.45 | 8 | PASS | |

IEEE 802.11n HT20 mode (Three TX)

Remark:

1. At finial test to get the worst-case emission at 6.5Mbps.

2. The cable assembly insertion loss of 11dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

| Channel | Channel Frequency (MHz) | Final RF Power Level in 3KHz BW (dBm) | Maxmum Limit (dBm) | Pass / Fail |
|---------|-------------------------------|---|--------------------------|-------------|
| Low | 2412 | -3.29 | 8 | PASS |
| Middle | 2437 | 2.72 | 8 | PASS |
| High | 2462 | -5.42 | 8 | PASS |

IEEE 802.11n HT20 Combined mode (Three TX)

Remark:

1. At finial test to get the worst-case emission at 6.5Mbps.

2. The cable assembly insertion loss of 16.5dB (including 10 dB pad and 6.5 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

| Channel | Channel Frequency (MHz) | | al RF Pov l in 3KHz (dBm) | | PPSD Total (dBm) | Maxmum Limit (dBm) | Pass / Fail | |
|---------|-------------------------------|---------|---------------------------------|---------|------------------------|--------------------------|-------------|--|
| | (IVIIIZ) | Chain 0 | Chain 1 | Chain 2 | | (ubiii) | | |
| Low | 2422 | -17.93 | -19.65 | -17.18 | -13.36 | 8 | PASS | |
| Middle | 2437 | -8.84 | -5.15 | -4.89 | -1.18 | 8 | PASS | |
| High | 2452 | -16.49 | -14.49 | -12.06 | -9.19 | 8 | PASS | |

IEEE 802.11n HT40 mode (Three TX)

Remark:

1. At finial test to get the worst-case emission at 13.5Mbps.

2. The cable assembly insertion loss of 11dB (including 10 dB pad and 1 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

| Channel | Channel Frequency (MHz) | Final RF Power Level in 3KHz BW (dBm) | Maxmum Limit (dBm) | Pass / Fail |
|---------|-------------------------------|---|--------------------------|-------------|
| Low | 2412 | -9.82 | 8 | PASS |
| Middle | 2437 | 1.88 | 8 | PASS |
| High | 2462 | -8.13 | 8 | PASS |

IEEE 802.11n HT40 Combined mode (Three TX)

Remark:

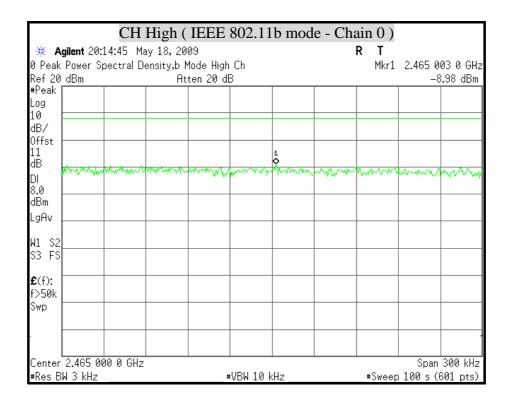
1. At finial test to get the worst-case emission at 13.5Mbps.

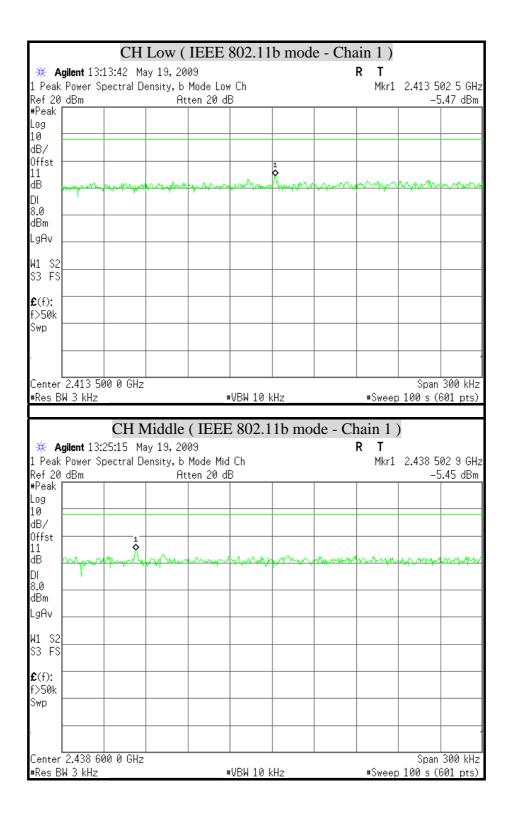
2. The cable assembly insertion loss of 16.5dB (including 10 dB pad and 6.5 dB cable) was Entered as an offset in the spectrum analyzer to allow for direct reading of power.

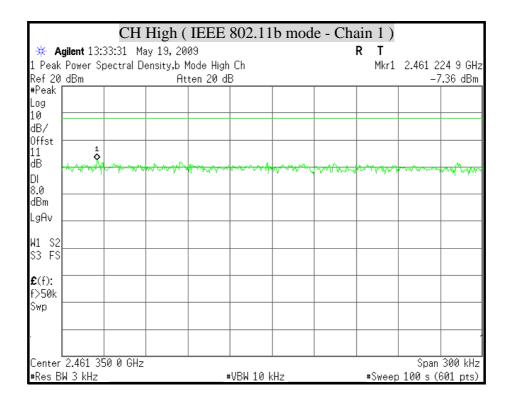


POWER SPECTRAL DENSITY (IEEE 802.11b mode)

| | | CH | Low (| IEEE | 802.11 | b mod | e - Cha | in 0) | | |
|---|--|------------------|------------------------|---------------------------------------|------------------------|-------|---------|-----------------------|---------------|-----------------------|
| ж А | gilent 19: | 48:02 Ma | ay 18, 20 | 09 | | | | RT | | |
| | | pectral D | | | | | | Mkr1 | 2.412 5 | |
| Ref 20 #Peak | dBm | | At | ten 20 di | B | | | | -5 | .47 dBm |
| нгеак Log | | | | | | | | | | |
| 10 | | | | | | | | | | |
| dB/ | | | | | | | | | | |
| Offst 11 | | | | | | | | | | |
| dB | agam | manty | Mmm | mm | mon | man | mon | mon | mm | Marymon |
| DI | | | | 1 | | | | | | 1 |
| 8.0 JD | | | | | | | | | | |
| dBm L∞Ou | | | | | | | | | | |
| LgAv | | | | | | | | | | |
| W1 S2 | | | | | | | | | | |
| \$3 F\$ | | | | | | | | | | |
| £ (f): | | | | | | | | | | |
| f >50k | | | | | | | | | | |
| Swp | <u> </u> | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | • 2.412 G(| 00 0 GHz | | | | | | | Span | 300 kHz |
| | | 00 0 0112 | | | | | | | | |
| | 2.412 00 3W 3 kHz | | | + | ⊧VBW 10 k | (Hz | | #Sweep | o 100 s (I | |
| | | | Aiddle | | | | de - Ch | | o 100 s (1 | |
| #Res B | 3 kHz | CH N | | (IEEE | | | de - Ch | nain 0 | o 100 s (1 | |
| ₩Res B | W 3 kHz | CH N 54:56 Ma | ay 18, 20 | (IEEE 09 | E 802.1 | | | nain 0 |) | 601 pts)_ |
| ₩Res B | W 3 kHz Agilent 19: Power Sp | CH N | ay 18, 20 ensity, b | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain 0 |) 2.435 0 | 601 pts)_ |
| # Res B ₩ A 0 Peak Ref 20 # Peak | W 3 kHz Agilent 19: Power Sp | CH N 54:56 Ma | ay 18, 20 ensity, b | (IEEE 09 | E 802.1 I Ch | | | nain 0 |) 2.435 0 | 601 pts)_ 02 2 GHz |
| #Res B ₩ A 0 Peak Ref 20 #Peak Log | W 3 kHz Agilent 19: Power Sp | CH N 54:56 Ma | ay 18, 20 ensity, b | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain 0 |) 2.435 0 | 601 pts)_ 02 2 GHz |
| <pre>#Res B</pre> | W 3 kHz Agilent 19: Power Sp | CH N 54:56 Ma | ay 18, 20 ensity, b | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain 0 |) 2.435 0 | 601 pts)_ 02 2 GHz |
| #Res B ₩ A 0 Peak Ref 20 #Peak Log 10 dB/ Offst | W 3 kHz Agilent 19: Power Sp | CH N 54:56 Ma | ay 18, 20 ensity, b | (IEEE 09 Mode Mid ten 20 dl | E 802.1 I Ch | | | nain 0 |) 2.435 0 | 601 pts)_ 02 2 GHz |
| #Res B ₩ A 0 Peak Ref 20 #Peak Log 10 dB/ 0ffst 11 | W 3 kHz Agilent 19: Power Sp | CH N 54:56 Ma | ay 18, 20 ensity, b | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain O R T Mkr1 | 2.435 0 -6 | 601 pts)_ 02 2 GHz |
| <pre>#Res B #Ref 20 #Peak Log 10 dB/ Offst 11 dB</pre> | W 3 kHz Agilent 19: Power Sp | CH N 54:56 Ma | ay 18, 20 ensity, b | (IEEE 09 Mode Mid ten 20 dl | E 802.1 I Ch | | | nain 0 | 2.435 0 -6 | 601 pts)_ 02 2 GHz |
| #Res B ₩ A 0 Peak Ref 20 #Peak Log 10 dB/ 0ffst 11 | W 3 kHz Agilent 19: Power Sp | CH N 54:56 Ma | ay 18, 20 ensity, b | (IEEE 09 Mode Mid ten 20 dl | E 802.1 I Ch | | | nain O R T Mkr1 | 2.435 0 -6 | 601 pts)_ 02 2 GHz |
| HRES B ★ A 0 Peak Ref 20 #Peak Log 10 dB/ Offst 11 dB DI 8.0 dBm | W 3 kHz Agilent 19: Power Sp | CH N 54:56 Ma | ay 18, 20 ensity, b | (IEEE 09 Mode Mid ten 20 dl | E 802.1 I Ch | | | nain O R T Mkr1 | 2.435 0 -6 | 601 pts)_ 02 2 GHz |
| a Res B a Res B 0 Peak Ref 20 a Peak Log 10 dB/ 0ffst 11 dB DI 8.0 | W 3 kHz Agilent 19: Power Sp | CH N 54:56 Ma | ay 18, 20 ensity, b | (IEEE 09 Mode Mid ten 20 dl | E 802.1 I Ch | | | nain O R T Mkr1 | 2.435 0 -6 | 601 pts)_ 02 2 GHz |
| #Res B ₩ A 0 Peak Ref 20 #Peak Log 10 dB/ 0ffst 11 dB DI 8.0 dBm LgAv | SW 3 kHz sgilent 19: Power SI dBm | CH N 54:56 Ma | ay 18, 20 ensity, b | (IEEE 09 Mode Mid ten 20 dl | E 802.1 I Ch | | | nain O R T Mkr1 | 2.435 0 -6 | 601 pts)_ 02 2 GHz |
| #Res B ₩ A 0 Peak Ref 20 #Peak Log 10 dB/ 0ffst 11 dB DI 8.0 dBm LgAv W1 S2 | SW 3 kHz sgilent 19: Power SI dBm | CH N 54:56 Ma | ay 18, 20 ensity, b | (IEEE 09 Mode Mid ten 20 dl | E 802.1 I Ch | | | nain O R T Mkr1 | 2.435 0 -6 | 601 pts)_ 02 2 GHz |
| #Res B ₩ A 0 Peak Ref 20 #Peak Log 10 dB/ 0ffst 11 dB B 0 dBm LgAv W1 \$2 \$3 F\$ | SW 3 kHz sgilent 19: Power SI dBm | CH N 54:56 Ma | ay 18, 20 ensity, b | (IEEE 09 Mode Mid ten 20 dl | E 802.1 I Ch | | | nain O R T Mkr1 | 2.435 0 -6 | 601 pts)_ 02 2 GHz |
| #Res B ₩ A 0 Peak Ref 20 #Peak Log 10 dB/ 0ffst 11 dB DI 8.0 dBm LgAv W1 \$2 \$3 F\$ £(f): | SW 3 kHz sgilent 19: Power SI dBm | CH N 54:56 Ma | ay 18, 20 ensity, b | (IEEE 09 Mode Mid ten 20 dl | E 802.1 I Ch | | | nain O R T Mkr1 | 2.435 0 -6 | 601 pts)_ 02 2 GHz |
| #Res B #Res B # Ø Peak Ref 20 #Peak Log 10 dB/ Offst 11 dB DI 8.0 dBm LgAv W1 S2 S3 FS £(f): f>50k | SW 3 kHz sgilent 19: Power SI dBm | CH N 54:56 Ma | ay 18, 20 ensity, b | (IEEE 09 Mode Mid ten 20 dl | E 802.1 I Ch | | | nain O R T Mkr1 | 2.435 0 -6 | 601 pts)_ 02 2 GHz |
| #Res B ₩ A 0 Peak Ref 20 #Peak Log 10 dB/ 0ffst 11 dB DI 8.0 dBm LgAv W1 \$2 \$3 F\$ £(f): | SW 3 kHz sgilent 19: Power SI dBm | CH N 54:56 Ma | ay 18, 20 ensity, b | (IEEE 09 Mode Mid ten 20 dl | E 802.1 I Ch | | | nain O R T Mkr1 | 2.435 0 -6 | 601 pts)_ 02 2 GHz |
| #Res B #Res B # Ø Peak Ref 20 #Peak Log 10 dB/ Offst 11 dB DI 8.0 dBm LgAv W1 S2 S3 FS £(f): f>50k | SW 3 kHz sgilent 19: Power SI dBm | CH N 54:56 Ma | ay 18, 20 ensity, b | (IEEE 09 Mode Mid ten 20 dl | E 802.1 I Ch | | | nain O R T Mkr1 | 2.435 0 -6 | 601 pts)_ 02 2 GHz |
| #Res B #Res B # Ø Peak Ref 20 #Peak Log 10 dB/ Offst 11 dB DI 8.0 dBm LgAv W1 S2 S3 FS £(f): f>50k | SW 3 kHz sgilent 19: Power SI dBm | CH N 54:56 Ma | ay 18, 20 ensity, b | (IEEE 09 Mode Mid ten 20 dl | E 802.1 I Ch | | | nain O R T Mkr1 | 2.435 0 -6 | 601 pts)_ 02 2 GHz |
| <pre>#Res B #Res B 0 Peak Ref 20 #Peak Log 10 dB/ 0ffst 11 dB DI 8.0 dBm LgAv W1 S2 S3 FS £(f): f>50k Swp Center</pre> | Sgilent 19: • gilent 19: • Ower Si • dBm | CH N 54:56 Ma | ay 18, 20 ensity, b | (IEEE 09 Mode Mid ten 20 dl | E 802.1 I Ch | | | nain O R T Mkr1 | 2.435 0 | 601 pts)_ 02 2 GHz |

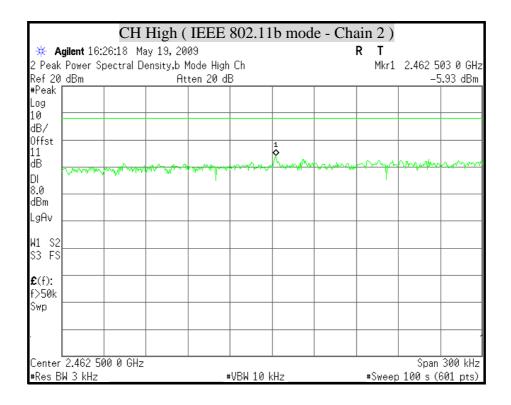






E

| | | CH | Low (| IEEE | 802.11 | b mod | e - Cha | in 2) | | |
|---|---------------------|-----------------------|------------------------|-----------------------------|-----------|-----------|-----------|----------------|--|--|
| ж А | gilent 15: | 56:34 Ma | ay 19, 20 | 09 | | | 1 | RТ | | |
| | : Power Sp | pectral D | | | | | | Mkr1 | | 503 0 GHz |
| Ref 20 | dBm | | At | ten 20 d | B | | | | - | 4.26 dBm |
| #Peak Log | | | | | | | | | | |
| 10 10 | | | | | | | | | | |
| dB/ | | | | | | | | | | |
| Offst | <u> </u> | | | | | 1 \$ | | | | |
| 11 dB | mon | monther | mon | mon | mon | IA . | www.www | a death and | as | |
| ub DI | | | 1.64 | 1.1.11.14 | 4 1 W 31 | - to with | WY WY YIY | - Cherry Print | turt for the second | and the second s |
| 8.0 | | | | | | | | | | |
| dBm | | | | | | | | | | |
| LgAv | | | | | | | | | | |
| 111 00 | | | | | | | | | | |
| W1 S2 S3 FS | | | | | | | | | | |
| JJ FJ | | | | | | | | | | |
| £ (f): | | | | | | | | | | |
| f>50k | | | | | | | | | | |
| Swp | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | 1 |
| C | 2.411 50 | | | | | | | | | 300 kHz |
| | 2.411 50 W 3 kHz | 00 0 GHZ | | | ⊧VBW 10 k | /H-7 | | #Swaar | | 601 pts) |
| #N03 D | M J NHZ | | | | VDN 10 P | 112 | | | 100 3 \ | 001 pt3/_ |
| | | | | | | | | | | |
| | | CHN | Aiddle | (IEEE | E 802-1 | 1h mo | de - Cl | nain 2 |) | |
| Siz A | ailant 16. | | | | E 802.1 | 1b mo | de - Cł | |) | |
| | gilent 16:0 | 01:59 Ma | ay 19, 20 | 09 | | 1b mo | | RT | | 24 1 GHz |
| 2 Peak | Power Sp | 01:59 Ma | ay 19, 20 ensity, b | 09 Mode Mid | Ch | 1b mo | | RT | 2.436 2 | 24 1 GHz 4.14 dBm |
| | Power Sp | 01:59 Ma | ay 19, 20 ensity, b | 09 | Ch | 1b mo | | RT | 2.436 2 | 224 1 GHz 4.14 dBm |
| 2 Peak Ref 20 #Peak Log | Power Sp | 01:59 Ma | ay 19, 20 ensity, b | 09 Mode Mid | Ch | 1b mo | | RT | 2.436 2 | |
| 2 Peak Ref 20 #Peak Log 10 | Power Sp | 01:59 Ma | ay 19, 20 ensity, b | 09 Mode Mid | Ch | 1b mo | | RT | 2.436 2 | |
| 2 Peak Ref 20 #Peak Log 10 dB/ | Power Sp | 01:59 Ma | ay 19, 20 ensity, b | 09 Mode Mid | Ch | 1b mo | | RT | 2.436 2 | |
| 2 Peak Ref 20 #Peak Log 10 | Power Sp dBm | 01:59 Ma | ay 19, 20 ensity, b | 09 Mode Mid ten 20 di | I Ch B | | | R T Mkr1 | 2.436 2 | 4.14 dBm |
| 2 Peak Ref 20 #Peak Log 10 dB/ 0ffst 11 dB | Power Sp dBm | 01:59 Ma | ay 19, 20 ensity, b | 09 Mode Mid | I Ch B | | | R T Mkr1 | 2.436 2 | 4.14 dBm |
| 2 Peak Ref 20 #Peak Log dB/ 0ffst 11 dB DI | Power Sp dBm | 01:59 Ma | ay 19, 20 ensity, b | 09 Mode Mid ten 20 di | Ch B | | | R T Mkr1 | 2.436 2 | 4.14 dBm |
| 2 Peak Ref 20 #Peak Log dB/ 0ffst 11 dB DI 8.0 | Power Sp dBm | 01:59 Ma | ay 19, 20 ensity, b | 09 Mode Mid ten 20 di | Ch B | | | R T Mkr1 | 2.436 2 | 4.14 dBm |
| 2 Peak Ref 20 HPeak Log dB/ Offst 11 dB DI 8.0 dBm | Power Sp dBm | 01:59 Ma | ay 19, 20 ensity, b | 09 Mode Mid ten 20 di | Ch B | | | R T Mkr1 | 2.436 2 | 4.14 dBm |
| 2 Peak Ref 20 #Peak Log dB/ 0ffst 11 dB DI 8.0 | Power Sp dBm | 01:59 Ma | ay 19, 20 ensity, b | 09 Mode Mid ten 20 di | Ch B | | | R T Mkr1 | 2.436 2 | 4.14 dBm |
| 2 Peak Ref 20 #Peak Log dB/ Offst 11 dB DI 8.0 dBm LgAv W1 S2 | Power Sp dBm | 01:59 Ma | ay 19, 20 ensity, b | 09 Mode Mid ten 20 di | Ch B | | | R T Mkr1 | 2.436 2 | 4.14 dBm |
| 2 Peak Ref 20 #Peak Log dB/ Offst 11 dB DI 8.0 dBm LgAv | Power Sp dBm | 01:59 Ma | ay 19, 20 ensity, b | 09 Mode Mid ten 20 di | I Ch B | | | R T Mkr1 | 2.436 2 | 4.14 dBm |
| 2 Peak Ref 20 #Peak Log dB/ Offst 11 dB DI 8.0 dBm LgAv W1 S2 \$3 FS | Power Sp dBm | 01:59 Ma | ay 19, 20 ensity, b | 09 Mode Mid ten 20 di | I Ch B | | | R T Mkr1 | 2.436 2 | 4.14 dBm |
| 2 Peak Ref 20 #Peak Log dB/ Offst 11 dB DI 8.0 dBm LgAv W1 S2 S3 FS £(f): | Power Sp dBm | 01:59 Ma | ay 19, 20 ensity, b | 09 Mode Mid ten 20 di | I Ch B | | | R T Mkr1 | 2.436 2 | 4.14 dBm |
| 2 Peak Ref 20 #Peak Log 10 dB/ Offst 11 dB DI 8.0 dBm LgAv W1 \$2 \$3 F\$ £(f): f>50k | Power Sp dBm | 01:59 Ma | ay 19, 20 ensity, b | 09 Mode Mid ten 20 di | I Ch B | | | R T Mkr1 | 2.436 2 | 4.14 dBm |
| 2 Peak Ref 20 #Peak Log dB/ Offst 11 dB DI 8.0 dBm LgAv W1 S2 S3 FS £(f): | Power Sp dBm | 01:59 Ma | ay 19, 20 ensity, b | 09 Mode Mid ten 20 di | I Ch B | | | R T Mkr1 | 2.436 2 | 4.14 dBm |
| 2 Peak Ref 20 #Peak Log 10 dB/ Offst 11 dB DI 8.0 dBm LgAv W1 \$2 \$3 F\$ £(f): f>50k | Power Sp dBm | 01:59 Ma | ay 19, 20 ensity, b | 09 Mode Mid ten 20 di | I Ch B | | | R T Mkr1 | 2.436 2 | 4.14 dBm |
| 2 Peak Ref 20 #Peak Log 10 dB/ Offst 11 dB DI 8.0 dBm LgAv W1 \$2 \$3 F\$ £(f): f>50k | Power Sp dBm | 01:59 Ma | ay 19, 20 ensity, b | 09 Mode Mid ten 20 di | I Ch B | | | R T Mkr1 | 2.436 2 | 4.14 dBm |
| 2 Peak Ref 20 #Peak Log 10 dB/ Offst 11 dB DI 8.0 dBm LgAv W1 \$2 \$3 F\$ £(f): f>50k \$wp | Power Sp dBm | 01:59 Ma Dectral D | ay 19, 20 ensity, b | 09 Mode Mid ten 20 dl | I Ch B | | | R T Mkr1 | 2.436 2 | 4.14 dBm |

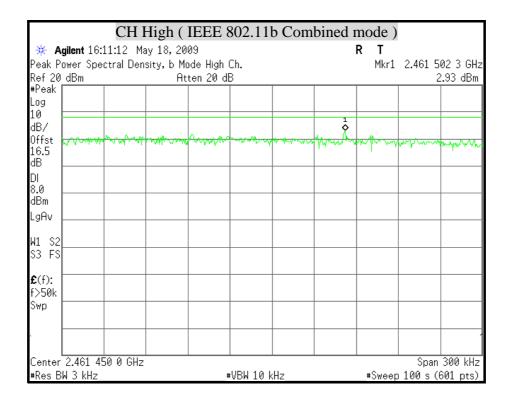




<u>POWER SPECTRAL DENSITY (IEEE 802.11b Combined mode)</u>

| | | CH | Low (| IEEE 8 | 302.11 | b Com | bined r | node) | | |
|--|--------------------------------|-----------------------|-------------------------------|---------------------------------------|----------|-------------|---------|---------------------|--|----------------------|
| ж А | gilent 15: | 49:28 Ma | ay 18, 20 | 09 | | | | RT | | |
| | ower Spe | ctral Den | | | | | | Mkr1 | | 80 9 GHz |
| Ref 20 #Peak | dBm | 1 | At | ten 20 di | 3 | 1 | 1 | 1 | 3 | 3.67 dBm |
| Log | | | | | | | | | | |
| 10 | | | | | 1 | | | | | |
| dB/ Offst | mout | Same and M | monor | An Church MA | | with a site | an un | MAL NO | Anna and De | mar in |
| 16.5 | · · · · | | | | , 1 v 1 | | 1 | W WY - Q | | and Advant A |
| dB | | | | | | | | | | |
| DI | | | | | | | | | | |
| 8.0 dBm | | | | | | | | | | |
| LgAv | | | | | | | | | | |
| | | | | | | | | | | |
| W1 S2 S3 FS | | | | | | | | | | |
| 55 FS | | | | | | | | | | |
| £ (f): | | | | | | | | | | |
| f>50k | | | | | | | | | | |
| Swp | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | 2.412 80 | 00 0 GHz | | | 1 | | | 1 | | 300 kHz |
| #Res B | 3W 3 kHz | | | | VBW 10 k | dl= | | #\$110.0m | 100 - 0 | 601 pts)_ |
| | | | | т | NDM IO K | | | _#>weeb | 100 5 (| 001 pts/_ |
| | | СЦМ | fiddlad | | | | nhinad | | | 001 pt3/_ |
| | | | | (IEEE | | | nbined | mode | | 001 pt3/_ |
| ₩ A | gilent 15: | 53 : 53 Ma | ay 18, 20 | (IEEE 09 | 802.1 | | | mode R T |) | |
| ₩ A | gilent 15: 'ower Spe | 53 : 53 Ma | ay 18, 20 sity, b Mo | (IEEE 09 | 802.1 | | | mode R T |) 2.436 2 | 23 9 GHz 1.36 dBm |
| ∦ A Peak P Ref 20 #Peak | gilent 15: 'ower Spe | 53 : 53 Ma | ay 18, 20 sity, b Mo | (IEEE 09 ode Mid C | 802.1 | | | mode R T |) 2.436 2 | 23 9 GHz |
| <mark>⊯ A</mark> Peak P Ref 20 #Peak Log | gilent 15: 'ower Spe | 53 : 53 Ma | ay 18, 20 sity, b Mo | (IEEE 09 ode Mid C | 802.1 | | | mode R T |) 2.436 2 | 23 9 GHz |
| ∦ A Peak P Ref 20 #Peak | gilent 15: 'ower Spe | 53 : 53 Ma | ay 18, 20 sity, b Mo At | (IEEE 09 ode Mid C | 802.1 | 1b Cor | | mode R T |) 2.436 2 | 23 9 GHz |
| ₩ A Peak P Ref 20 #Peak Log 10 dB/ Offst | gilent 15: 'ower Spe | 53 : 53 Ma | ay 18, 20 sity, b Mo | (IEEE 09 ode Mid C | 802.1 | 1b Cor | | mode R T |) 2.436 2 | 23 9 GHz |
| ★ A Peak P Ref 20 #Peak Log 10 dB/ 0ffst 16.5 | gilent 15: 'ower Spe | 53 : 53 Ma | ay 18, 20 sity, b Mo At | (IEEE 09 ode Mid C | 802.1 | 1b Cor | | mode R T |) 2.436 2 | 23 9 GHz |
| ₩ A Peak P Ref 20 #Peak Log 10 dB/ 0ffst 16.5 dB | gilent 15: 'ower Spe | 53 : 53 Ma | ay 18, 20 sity, b Mo At | (IEEE 09 ode Mid C | 802.1 | 1b Cor | | mode R T |) 2.436 2 | 23 9 GHz |
| ₩ A Peak P Ref 20 #Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 | gilent 15: 'ower Spe | 53 : 53 Ma | ay 18, 20 sity, b Mo At | (IEEE 09 ode Mid C | 802.1 | 1b Cor | | mode R T |) 2.436 2 | 23 9 GHz |
| ★ A Peak P Ref 20 #Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 dBm | gilent 15: 'ower Spe | 53 : 53 Ma | ay 18, 20 sity, b Mo At | (IEEE 09 ode Mid C | 802.1 | 1b Cor | | mode R T |) 2.436 2 | 23 9 GHz |
| ₩ A Peak P Ref 20 #Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 | gilent 15: 'ower Spe | 53 : 53 Ma | ay 18, 20 sity, b Mo At | (IEEE 09 ode Mid C | 802.1 | 1b Cor | | mode R T |) 2.436 2 | 23 9 GHz |
| ₩ A Peak Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 dBm LgAv W1 S2 | igilent 15: ower Spe dBm | 53 : 53 Ma | ay 18, 20 sity, b Mo At | (IEEE 09 ode Mid C | 802.1 | 1b Cor | | mode R T |) 2.436 2 | 23 9 GHz |
| ★ A Peak P Ref 20 #Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 dBm | igilent 15: ower Spe dBm | 53 : 53 Ma | ay 18, 20 sity, b Mo At | (IEEE 09 ode Mid C | 802.1 | 1b Cor | | mode R T |) 2.436 2 | 23 9 GHz |
| ₩ A Peak Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 dBm LgAv W1 \$2 \$3 FS | igilent 15: ower Spe dBm | 53 : 53 Ma | ay 18, 20 sity, b Mo At | (IEEE 09 ode Mid C | 802.1 | 1b Cor | | mode R T |) 2.436 2 | 23 9 GHz |
| ₩ A Peak P Ref 20 #Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 dBm LgAv V3 FS \$ \$ <td< td=""><td>igilent 15: ower Spe dBm</td><td>53:53 Ma</td><td>ay 18, 20 sity, b Mo At</td><td>(IEEE 09 ode Mid C</td><td>802.1</td><td>1b Cor</td><td></td><td>mode R T</td><td>) 2.436 2</td><td>23 9 GHz</td></td<> | igilent 15: ower Spe dBm | 53 : 53 Ma | ay 18, 20 sity, b Mo At | (IEEE 09 ode Mid C | 802.1 | 1b Cor | | mode R T |) 2.436 2 | 23 9 GHz |
| ₩ A Peak Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 dBm LgAv W1 \$2 \$3 FS | igilent 15: ower Spe dBm | 53 : 53 Ma | ay 18, 20 sity, b Mo At | (IEEE 09 ode Mid C | 802.1 | 1b Cor | | mode R T |) 2.436 2 | 23 9 GHz |
| ₩ A Peak P Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 dBm LgAv V1 S2 S3 FS £(f): f>50k | igilent 15: ower Spe dBm | 53 : 53 Ma | ay 18, 20 sity, b Mo At | (IEEE 09 ode Mid C | 802.1 | 1b Cor | | mode R T |) 2.436 2 | 23 9 GHz |
| ₩ A Peak P Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 dBm LgAv V1 S2 S3 FS £(f): f>50k | igilent 15: ower Spe dBm | 53 : 53 Ma | ay 18, 20 sity, b Mo At | (IEEE 09 ode Mid C | 802.1 | 1b Cor | | mode R T |) 2.436 2 | 23 9 GHz |
| ₩ A Peak P Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 dBm LgAv W1 S2 S3 FS £(f): f>50k Swp | Agilent 15: ower Spe dBm | 53:53 Ma ctral Den | ay 18, 20 sity, b Ma At | (IEEE 09 ode Mid C | 802.1 | 1b Cor | | mode R T |) 2.436 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 23 9 GHz I.36 dBm |
| # A Peak P Peak P Log 10 dB/ 0ffst 16.5 dB DI 8.0 dBm LgAv W1 S2 S3 FS £(f): f>50k Swp Center | igilent 15: ower Spe dBm | 53:53 Ma ctral Den | ay 18, 20 sity, b Ma At | (IEEE 09 ode Mid C ten 20 dl | 802.1 | | | mode R T Mkr1 |) 2.436 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 | 23 9 GHz 1.36 dBm |



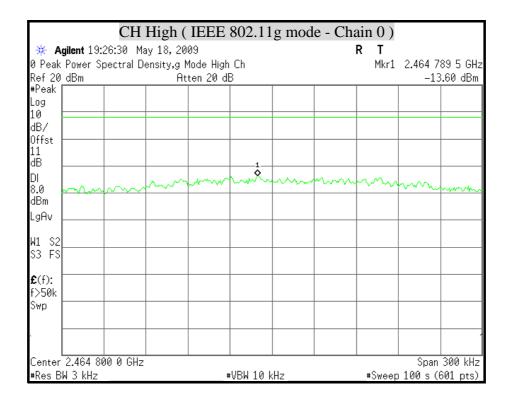


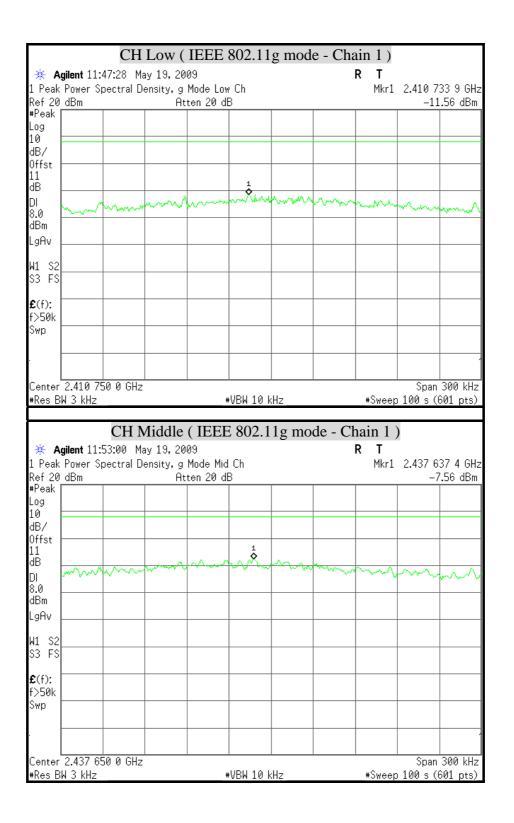


POWER SPECTRAL DENSITY (IEEE 802.11g mode)

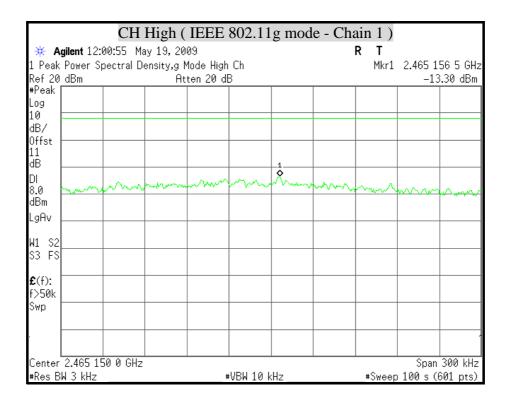
| | | CH | Low (| IEEE | 802.11 | g mod | e - Cha | ain 0) | | |
|--|--|--------------------------------|------------------------------|----------------------------------|------------------------|-------------------------|----------|-------------------------|--------------|---|
| ∦к А | gilent 19: | 09:25 Ma | ay 18, 20 | 09 | | | | RТ | | |
| | Power S | | | | √ Ch | | | Mkr1 | 2.410 1 | .59 0 GHz |
| Ref 20 | | | | ten 20 d | | | | | -1 | 1.58 dBm |
| #Peak | | | | | | | | | | |
| Log | | | | | | | | | | |
| 10 | | | | | | | | | | |
| dB/ | | | | | | | | | | |
| Offst 11 | | | | | | | | | | |
| dB | | | | | | 1 | | | | |
| DI | a | | m | man | man | man | an march | | | |
| 8.0 | - www | ~~~· | 1000 T | | | | | | NA W | mm |
| dBm | | | | | | | | | | |
| LgAv | | | | | | | | | | |
| Ŭ | | | | | | | | | | |
| W1 S2 | | | | | | | | | | |
| S3 FS | | | | | | | | | | |
| | | | | | | | | | | |
| £ (f): | | | | | | | | | | |
| f>50k | | | | | | | | | | |
| Swp | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | 1 |
| | | | | | | | | | | |
| | · 2 /10 1 | 50 0 GHz | | | | | | | Snar | 1300 kHz |
| | | 50 0 OHZ | | | | | | | | |
| | 2.410 1. 3W 3 kHz | | <i>I</i> iddla | | ₩VBW 10 | | da Cl | |) 100 s (| (601 pts)_ |
| #Res B ₩ A | <u>W 3 kHz</u> Agilent 19: K Power S | CH N 18:39 Ma | ay 18, 20 ensity, g | (IEEE 09 | E 802.1 I Ch | ^{KHz} 1g mo | | nain 0) R T |) 2.432 (| <u>(601 pts)</u>)01 5 GHz 6.90 dBm |
| #Res B ₩ A 0 Peak Ref 20 #Peak | <u>W 3 kHz</u> Agilent 19: K Power S | CH N 18:39 Ma | ay 18, 20 ensity, g | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain 0) R T |) 2.432 (| 001 5 GHz |
| <mark>#Res B</mark> ₩ A 0 Peak Ref 20 #Peak Log | <u>W 3 kHz</u> Agilent 19: K Power S | CH N 18:39 Ma | ay 18, 20 ensity, g | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain 0) R T |) 2.432 (| 001 5 GHz |
| #Res B ₩ A 0 Peak Ref 20 #Peak Log 10 | <u>W 3 kHz</u> Agilent 19: K Power S | CH N 18:39 Ma | ay 18, 20 ensity, g | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain 0) R T |) 2.432 (| 001 5 GHz |
| #Res B ★ A Ø Peak Ref 20 #Peak Log 10 dB/ | <u>W 3 kHz</u> Agilent 19: K Power S | CH N 18:39 Ma | ay 18, 20 ensity, g | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain 0) R T |) 2.432 (| 001 5 GHz |
| #Res B ₩ A 0 Peak Ref 20 #Peak Log 10 dB/ Offst | <u>W 3 kHz</u> Agilent 19: K Power S | CH N 18:39 Ma | ay 18, 20 ensity, g | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain 0) R T |) 2.432 (| 001 5 GHz |
| * Res B № A Ø Peak Ref 20 * Peak Log 10 dB/ 0ffst 11 | <u>W 3 kHz</u> Agilent 19: K Power S | CH N 18:39 Ma | ay 18, 20 ensity, g | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain 0) R T |) 2.432 (| 001 5 GHz |
| *Res B | <u>W 3 kHz</u> Agilent 19: K Power S | CH N 18:39 Ma | ay 18, 20 ensity, g | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain 0) R T |) 2.432 (| 001 5 GHz |
| * Res B № A Ø Peak Ref 20 * Peak Log 10 dB/ 0ffst 11 | 3 <u>W 3 kHz</u> Agilent 19: K Power S | CH N 18:39 Ma | ay 18, 20 ensity, g | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain 0) R T |) 2.432 (| 001 5 GHz |
| #Res B ₩ A Ø Peak Ref 20 #Peak Log 10 dB/ 0ffst 11 dB DI | 3 <u>W 3 kHz</u> Agilent 19: K Power S | CH N 18:39 Ma | ay 18, 20 ensity, g | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain 0) R T |) 2.432 (| 001 5 GHz |
| #Res B ₩ A 0 Peak Ref 20 #Peak Log 10 dB/ 0ffst 11 dB DI 8.0 | 3 <u>W 3 kHz</u> Agilent 19: K Power S | CH N 18:39 Ma | ay 18, 20 ensity, g | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain 0) R T |) 2.432 (| 001 5 GHz |
| ★Res B ★ A 0 Peak Ref 20 *Peak Log 10 dB/ 0ffst 11 dB DI 8.0 dBm LgAv | Agilent 19: Agilent 19: Power S dBm | CH N 18:39 Ma | ay 18, 20 ensity, g | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain 0) R T |) 2.432 (| 001 5 GHz |
| ★Res B ★ A Ø Peak Ref 20 Peak Log 10 dB/ 0ffst 11 dB DI 8.0 dBm LgAv W1 \$2 | Agilent 19: Agilent 19: Power S dBm | CH N 18:39 Ma | ay 18, 20 ensity, g | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain 0) R T |) 2.432 (| 001 5 GHz |
| ★Res B ★ A 0 Peak Ref 20 *Peak Log 10 dB/ 0ffst 11 dB DI 8.0 dBm LgAv | Agilent 19: Agilent 19: Power S dBm | CH N 18:39 Ma | ay 18, 20 ensity, g | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain 0) R T |) 2.432 (| 001 5 GHz |
| ★Res B ★ A 0 Peak Ref 20 *Peak Log 10 dB/ 0ffst 11 dB DI 8.0 dBm LgAv W1 S2 S3 FS | Agilent 19: Agilent 19: Power S dBm | CH N 18:39 Ma | ay 18, 20 ensity, g | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain 0) R T |) 2.432 (| 001 5 GHz |
| #Res B # | Agilent 19: Agilent 19: Power S dBm | CH N 18:39 Ma | ay 18, 20 ensity, g | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain 0) R T |) 2.432 (| 001 5 GHz |
| | Agilent 19: Agilent 19: Power S dBm | CH N 18:39 Ma | ay 18, 20 ensity, g | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain 0) R T |) 2.432 (| 001 5 GHz |
| #Res B # | Agilent 19: Agilent 19: Power S dBm | CH N 18:39 Ma | ay 18, 20 ensity, g | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain 0) R T |) 2.432 (| 001 5 GHz |
| | Agilent 19: Agilent 19: Power S dBm | CH N 18:39 Ma | ay 18, 20 ensity, g | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain 0) R T |) 2.432 (| 001 5 GHz |
| | Agilent 19: Agilent 19: Power S dBm | CH N 18:39 Ma | ay 18, 20 ensity, g | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain 0) R T |) 2.432 (| 001 5 GHz |
| *Res B * A 0 Peak Ref 20 * Peak Log 10 dB/ 0ffst 11 dB/ 0ffst 11 dB/ 0ffst 11 dB/ 0 dBm LgAv W1 S2 S3 FS £(f): f>50k Swp | Agilent 19: Cover S dBm | CH N 18:39 Ma pectral Do | ay 18, 20 ensity, g At | (IEEE 09 Mode Mid | E 802.1 I Ch | | | nain 0) R T | 2.432 (| 001 5 GHz 6.90 dBm |
| *Res B * A 0 Peak Ref 20 * Peak Log 10 dB/ 0ffst 11 dB/ 0ffst 11 dB/ 0ffst 11 8.0 dBm LgAv W1 S2 S3 FS £(f): f>50k Swp Center | Agilent 19: Agilent 19: Power S dBm | CH N 18:39 Ma pectral Do | ay 18, 20 ensity, g At | (IEEF 09 Mode Micten 20 d | E 802.1 I Ch | 1g mo | | nain 0) R T Mkr1 |) 100 s (| 001 5 GHz |

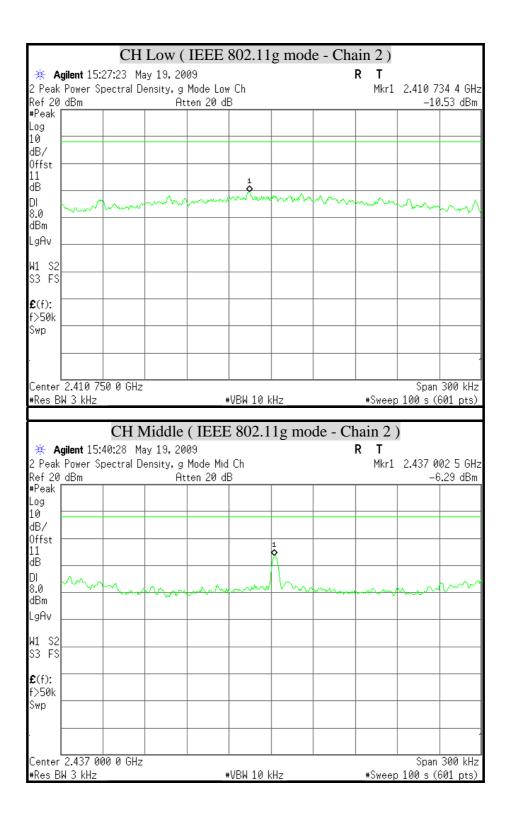




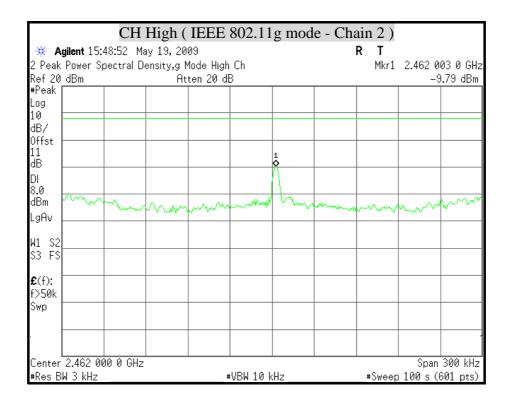










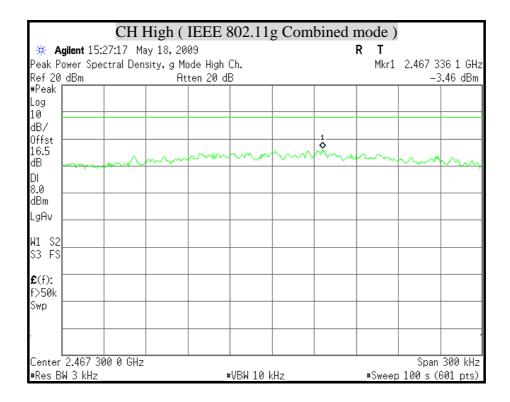




POWER SPECTRAL DENSITY (IEEE 802.11g Combined mode)

| | | CH | Low (] | IEEE 8 | 302.11 | g Com | bined r | no | de) | | |
|--|---------------------------------|-----------------------|-------------------------|---------------------------------------|------------------|---------|---------|--------|------------------|------------------|----------------------|
| ж А | gilent 15: | | | | | | | R | T | | |
| Peak P | ower Spe | | sity, g Mo | ode Low C | | | | | Mkr1 | | 27 4 GHz |
| Ref 20 #Peak | | | At | ten 20 di | 3 | | 1 | | | -1 | .45 dBm |
| +reak Log | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| dB/ | | | | | 1 | | | | | | |
| Offst 16.5 | | | | m | h | mon | | | | ~ | |
| dB | mm | ~~~~~ | | | · · · · · | · · · · | rem vu | ww | Ym | mbro | |
| DI | | | | | | | | | | | |
| 8.0 dBm | | | | | | | | | | | |
| LgAv | | | | | | | | | | | |
| _ | | | | | | | | | | | |
| W1 S2 S3 FS | | | | | | | | | | | |
| 33 FS | | | | | | | | | | | |
| £ (f): | | | | | | | | | | | |
| f>50k | | | | | | | | | | | |
| Swp | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | 2.407 65 | 50 0 GHz | | | | | 1 | | | Span | 300 kHz |
| | | | | | | | | | | | AA4 \ |
| #Res B | 3W 3 kHz_ | | | # | VBW 10 K | (Hz | | # | Sweep | 100 s (| 601 pts)_ |
| #Res B | 3 kHz_ | CILL | r• 1 11 | | | | 1 • 1 | | | _ | 601 pts)_ |
| | | | | (IEEE | | | nbined | m | ode | _ | 601 pts)_ |
| ∦ A | gilent 15: | 11:05 Ma | ay 18, 20 | (IEEE 09 | 802.1 | | | m R | ode T |) | |
| 🔆 🗚 Peak P | gilent 15:: 'ower Spe | 11:05 Ma | ay 18, 20 sity, g Mo | (IEEE 09 ode Mid C | 802.1 h. | | | m R | ode T |) 2.432 0 | 02 5 GHz |
| ∦ A | gilent 15:: 'ower Spe | 11:05 Ma | ay 18, 20 sity, g Mo | (IEEE 09 | 802.1 h. | | | m R | ode T |) 2.432 0 | |
| ₩ A Peak P Ref 20 #Peak Log | gilent 15:: 'ower Spe | 11:05 Ma | ay 18, 20 sity, g Mo | (IEEE 09 ode Mid C | 802.1 h. | | | m R | ode T |) 2.432 0 | 02 5 GHz |
| ¥ A Peak P Ref 20 #Peak Log 10 | gilent 15:: 'ower Spe | 11:05 Ma | ay 18, 20 sity, g Mo | (IEEE 09 ode Mid C | 802.1 h. | 1g Cor | | m R | ode T |) 2.432 0 | 02 5 GHz |
| ₩ A Peak P Ref 20 #Peak Log | gilent 15:: 'ower Spe | 11:05 Ma | ay 18, 20 sity, g Mo | (IEEE 09 ode Mid C | 802.1 h. | 1g Cor | | m R | ode T |) 2.432 0 | 02 5 GHz |
| ₩ A Peak P Ref 20 #Peak Log 10 dB/ 0ffst 16.5 | gilent 15:: 'ower Spe | 11:05 Ma | ay 18, 20 sity, g Mo | (IEEE 09 ode Mid C | 802.1 h. 3 | 1g Cor | | m R | ode T |) 2.432 0 | 02 5 GHz |
| ₩ A Peak P Ref 20 #Peak Log 10 dB/ 0ffst 16.5 dB | gilent 15:: 'ower Spe | 11:05 Ma | ay 18, 20 sity, g Mo | (IEEE 09 ode Mid C | 802.1 h. 3 | 1g Cor | | m R | ode T |) 2.432 0 | 02 5 GHz |
| ₩ A Peak P Ref 20 #Peak Log 10 dB/ 0ffst 16.5 | gilent 15:: 'ower Spe | 11:05 Ma | ay 18, 20 sity, g Mo | (IEEE 09 ode Mid C | 802.1 h. 3 | 1g Cor | | m R | ode T |) 2.432 0 | 02 5 GHz |
| ₩ A Peak P Ref 20 #Peak Log 10 dB/ 0ffst 0ffst 16.5 dB DI 8.0 dBm | gilent 15:: 'ower Spe | 11:05 Ma | ay 18, 20 sity, g Mo | (IEEE 09 ode Mid C | 802.1 h. 3 | 1g Cor | | m R | ode T |) 2.432 0 | 02 5 GHz |
| ₩ A Peak P Ref 20 #Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 | gilent 15:: 'ower Spe | 11:05 Ma | ay 18, 20 sity, g Mo | (IEEE 09 ode Mid C | 802.1 h. 3 | 1g Cor | | m R | ode T |) 2.432 0 | 02 5 GHz |
| Image: Weight of the second secon | Agilent 15:: Yower Spe | 11:05 Ma | ay 18, 20 sity, g Mo | (IEEE 09 ode Mid C | 802.1 h. 3 | 1g Cor | | m R | ode T |) 2.432 0 | 02 5 GHz |
| Image: Weight of the second secon | Agilent 15:: Yower Spe | 11:05 Ma | ay 18, 20 sity, g Mo | (IEEE 09 ode Mid C | 802.1 h. 3 | 1g Cor | | m R | ode T |) 2.432 0 | 02 5 GHz |
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| ₩ A Peak P Ref 20 #Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 dBm LgAv V3 FS \$2 \$3 FS £(f): | Agilent 15:: Yower Spe | 11:05 Ma | ay 18, 20 sity, g Mo | (IEEE 09 ode Mid C | 802.1 h. 3 | 1g Cor | | m R | ode T |) 2.432 0 | 02 5 GHz |
| ₩ A Peak P Peak P Ref 20 #Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 dBm LgAv W1 S2 S3 FS f>50k f): | Agilent 15:: Yower Spe | 11:05 Ma | ay 18, 20 sity, g Mo | (IEEE 09 ode Mid C | 802.1 h. 3 | 1g Cor | | m R | ode T |) 2.432 0 | 02 5 GHz |
| ₩ A Peak P Ref 20 #Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 dBm LgAv V1 S2 S3 FS £(f): ************************************ | Agilent 15:: Yower Spe | 11:05 Ma | ay 18, 20 sity, g Mo | (IEEE 09 ode Mid C | 802.1 h. 3 | 1g Cor | | m R | ode T |) 2.432 0 | 02 5 GHz |
| ₩ A Peak P Peak P Ref 20 #Peak Log 10 10 dB/ 0ffst 16.5 dB DI 8.0 dBm LgAv S3 \$3 FS £(f): f>50k | Agilent 15:: Yower Spe | 11:05 Ma | ay 18, 20 sity, g Mo | (IEEE 09 ode Mid C | 802.1 h. 3 | 1g Cor | | m R | ode T |) 2.432 0 | 02 5 GHz |
| ** A Peak P Peak P Ref 20 Peak Log 10 dB/ Offst 16.5 dB DI 8.0 dBm LgAv W1 S2 S3 FS f>50k Swp | Agilent 15:: ower Spe dBm | 11:05 Ma ctral Den | ay 18, 20 Sity, g Ma | (IEEE 09 ode Mid C | 802.1 h. 3 | 1g Cor | | m R | ode T |) 2.432 @ 2 | 02 5 GHz 2.58 dBm |
| ** A Peak P Peak P Ref 20 #Peak Log 10 dB/ Offst 16.5 dB DI 8.0 dBm LgAv W1 S2 S3 FS f>50k Swp Center Center | Agilent 15:: Yower Spe | 11:05 Ma ctral Den | ay 18, 20 Sity, g Ma | (IEEE 09 ode Mid C ten 20 dl | 802.1 h. 3 | 1g Cor | | | ode T Mkr1 |) 2.432 @ | 02 5 GHz |



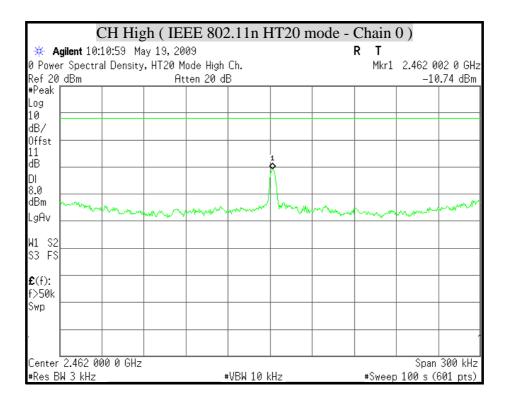




POWER SPECTRAL DENSITY (IEEE 802.11n HT20 mode)

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| ₩ A | gilent 09: | 37:08 Ma | ay 19, 20 | 09 | | | | RТ | | |
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| | 3W 3 kHz | 00 0 0112 | | | ⊧VBW 10 k | 415 | | | | 601 pts) |
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| -1100 L | | | | | VDN IU K | <u> </u> | | _#SW66 | 9D 100 2 (| .001 pts/_ |
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| F | C | | | EEE 80 | | | mode - | Chai | | 001 p(s)_ |
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| * A | C Agilent 09: er Spectra | 42 : 53 Ma | ay 19, 20 , HT20 M | E EE 80 09 |)2.11n Ch. | | | Chai R T | n ()) 1 2.437 (| |
| ∰ A 0 Powe Ref 20 | C Agilent 09: er Spectra | 42 : 53 Ma | ay 19, 20 , HT20 M | E EE 8(09 ode Mid (|)2.11n Ch. | | | Chai R T | n ()) 1 2.437 (| 002 5 GHz |
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| ∦ A Ø Powe Ref 20 #Peak Log dB/ Offst 11 dB | C Agilent 09: er Spectra | 42 : 53 Ma | ay 19, 20 , HT20 M | E EE 8(09 ode Mid (|)2.11n Ch. | HT20 | | Chai R T | n ()) 1 2.437 (| 002 5 GHz |
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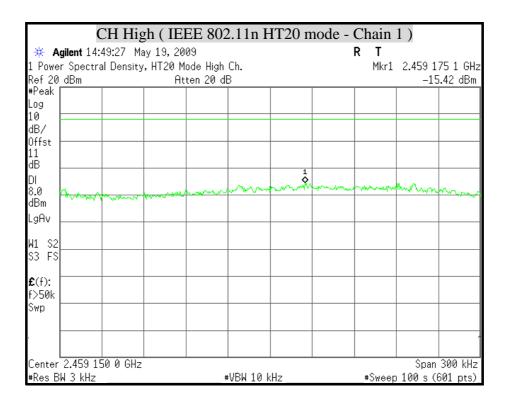




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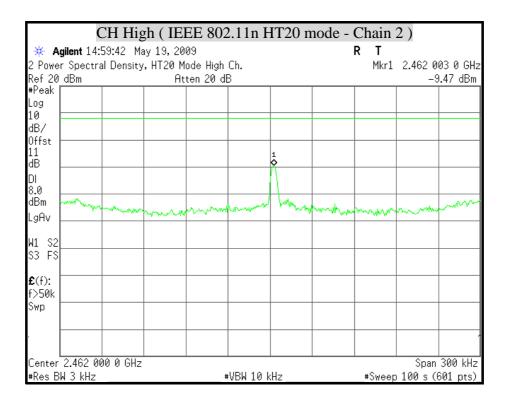




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POWER SPECTRAL DENSITY (IEEE 802.11n HT20 Combined mode)

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| ж А | gilent 16: | 53:31 Ma | ay 18, 20 | 09 | | | | R | Т | | |
| Power | - Spectral | Density, I | HT20 Mod | le Low Ch | | | | | Mkr1 | | 627 4 GHz |
| Ref 20 | dBm | | At | ten 20 d | B | | | | | | 3.29 dBm |
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| dB | - | | | | | | | | | month and a | Mary Mary Mary |
| DI 8.0 | | | | | | | | | | | |
| dBm | | | | | | | | | | | |
| LgAv | | | | | | | | | | | |
| - | | | | | | | | | | | |
| W1 S2 | | | | | | | | | | | |
| S3 FS | | | | | | | | | | | |
| £ (f): | | | | | | | | <u> </u> | | | |
| r. (†). f>50k | | | | | | | | | | | |
| Swp | <u> </u> | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | 2.412 65 | 50 0 GHz | | | | | | | | | n 300 kHz |
| #Res B | 3W 3 kHz | | | + | ŧVBW 10 k | /H-7 | | ±< | Nucon | 100 - 0 | (601 pts)_ |
| | | | | | - VDA 10 1 | 112 | | | ποομ | 100 3 1 | (001 pt0/_ |
| | Cl | | dle (IE | EE 802 | | | | ned | mo | | (001 p(0)_ |
| | Cl gilent 16: | 27:41 Ma | ay 18, 20 | EE 802 09 | 2.11n H | | | ned R | mo T | de) | |
| Power | C l gilent 16: Spectral | 27:41 Ma | ay 18, 20 HT20 Mod | EE 80 2 09 le Mid Ch. | 2.11n H | | | ned R | mo T | de) 2.437 (| 002 5 GHz |
| Power Ref 20 | C l gilent 16: Spectral | 27:41 Ma | ay 18, 20 HT20 Mod | EE 802 09 | 2.11n H | | | ned R | mo T | de) 2.437 (| |
| Power | C l gilent 16: Spectral | 27:41 Ma | ay 18, 20 HT20 Mod | EE 80 2 09 le Mid Ch. | 2.11n H | | | ned R | mo T | de) 2.437 (| 002 5 GHz |
| Power Ref 20 #Peak Log 10 | C l gilent 16: Spectral | 27:41 Ma | ay 18, 20 HT20 Mod | EE 80 2 09 le Mid Ch. | 2.11n H | HT20 C | | ned R | mo T | de) 2.437 (| 002 5 GHz |
| Power Ref 20 #Peak Log 10 dB/ | C l gilent 16: Spectral | 27:41 Ma | ay 18, 20 HT20 Mod | EE 80 2 09 le Mid Ch. | 2.11n H | | | ned R | mo T | de) 2.437 (| 002 5 GHz |
| Power Ref 20 #Peak Log 10 dB/ Offst | C l gilent 16: Spectral | 27:41 Ma | ay 18, 20 HT20 Mod | EE 80 2 09 le Mid Ch. | 2.11n H | HT20 C | | ned R | mo T | de) 2.437 (| 002 5 GHz |
| Power Ref 20 #Peak Log 10 dB/ | C l s gilent 16: Spectral | 27:41 Ma | ay 18, 20 HT20 Mod At | EE 802 09 le Mid Ch. ten 20 di | 2.11n H | HT20 C | | ned R | mo T | de) 2.437 (| 002 5 GHz |
| Power Ref 20 #Peak Log 10 dB/ 0ffst 16.5 dB | C l s gilent 16: Spectral | 27:41 Ma | ay 18, 20 HT20 Mod | EE 802 09 le Mid Ch. ten 20 di | 2.11n H | HT20 C | | ned R | mo T | de) 2.437 (| 002 5 GHz |
| Power Ref 20 #Peak Log dB/ 0ffst dB DI 8.0 | C l s gilent 16: Spectral | 27:41 Ma | ay 18, 20 HT20 Mod At | EE 802 09 le Mid Ch. ten 20 di | 2.11n H | HT20 C | | ned R | mo T | de) 2.437 (| 002 5 GHz |
| Power Ref 20 #Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 dBm | C l s gilent 16: Spectral | 27:41 Ma | ay 18, 20 HT20 Mod At | EE 802 09 le Mid Ch. ten 20 di | 2.11n H | HT20 C | | ned R | mo T | de) 2.437 (| 002 5 GHz |
| Power Ref 20 #Peak Log dB/ 0ffst dB DI 8.0 | C l s gilent 16: Spectral | 27:41 Ma | ay 18, 20 HT20 Mod At | EE 802 09 le Mid Ch. ten 20 di | 2.11n H | HT20 (| | ned R | mo T | de) 2.437 (| 002 5 GHz |
| Power Ref 20 #Peak Log dB/ 0ffst 16.5 dB DI 8.0 dBm LgAv | Cl sgilent 16: Spectral dBm | 27:41 Ma | ay 18, 20 HT20 Mod At | EE 802 09 le Mid Ch. ten 20 di | 2.11n H | HT20 (| | ned R | mo T | de) 2.437 (| 002 5 GHz |
| Power Ref 20 #Peak Log dB/ Offst 16.5 dB DI 8.0 dBm LgAv W1 S2 | Cl sgilent 16: Spectral dBm | 27:41 Ma | ay 18, 20 HT20 Mod At | EE 802 09 le Mid Ch. ten 20 di | 2.11n H | HT20 (| | ned R | mo T | de) 2.437 (| 002 5 GHz |
| Power Ref 20 #Peak Log dB/ 0ffst 16.5 dB DI 8.0 dBm LgAv | Cl sgilent 16: Spectral dBm | 27:41 Ma | ay 18, 20 HT20 Mod At | EE 802 09 le Mid Ch. ten 20 di | 2.11n H | HT20 (| | ned R | mo T | de) 2.437 (| 002 5 GHz |
| Power Ref 20 *Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 dBm LgAv W1 S2 S3 FS £(f): | Cl sgilent 16: Spectral dBm | 27:41 Ma | ay 18, 20 HT20 Mod At | EE 802 09 le Mid Ch. ten 20 di | 2.11n H | HT20 (| | ned R | mo T | de) 2.437 (| 002 5 GHz |
| Power Ref 20 *Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 dBm LgAv W1 \$2 \$3 F\$ £(f): f>50k | Cl sgilent 16: Spectral dBm | 27:41 Ma | ay 18, 20 HT20 Mod At | EE 802 09 le Mid Ch. ten 20 di | 2.11n H | HT20 (| | ned R | mo T | de) 2.437 (| 002 5 GHz |
| Power Ref 20 *Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 dBm LgAv W1 S2 S3 FS £(f): | Cl sgilent 16: Spectral dBm | 27:41 Ma | ay 18, 20 HT20 Mod At | EE 802 09 le Mid Ch. ten 20 di | 2.11n H | HT20 (| | ned R | mo T | de) 2.437 (| 002 5 GHz |
| Power Ref 20 *Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 dBm LgAv W1 \$2 \$3 F\$ £(f): f>50k | Cl sgilent 16: Spectral dBm | 27:41 Ma | ay 18, 20 HT20 Mod At | EE 802 09 le Mid Ch. ten 20 di | 2.11n H | HT20 (| | ned R | mo T | de) 2.437 (| 002 5 GHz |
| Power Ref 20 *Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 dBm LgAv W1 \$2 \$3 F\$ £(f): f>50k | Cl sgilent 16: Spectral dBm | 27:41 Ma | ay 18, 20 HT20 Mod At | EE 802 09 le Mid Ch. ten 20 di | 2.11n H | HT20 (| | ned R | mo T | de) 2.437 (| 002 5 GHz |
| Power Ref 20 #Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 dBm LgAv W1 S2 \$3 FS £(f): f>50k Swp | CI sgilent 16: Spectral dBm | 27:41 Ma | ay 18, 20 HT20 Mod At | EE 802 09 le Mid Ch. ten 20 di | 2.11n H | HT20 (| | ned R | mo T | de) 2.437 (| 002 5 GHz 2.72 dBm |
| Power Ref 20 #Peak Log 10 dB/ Offst 16.5 dB DI 8.0 dBm LgAv W1 S2 \$3 FS £(f): f>50k Swp Center | Cl sgilent 16: Spectral dBm | 27:41 Ma | ay 18, 20 HT20 Mod At | EE 802 | 2.11n H | HT20 (| | | mo T Mkr1 | de) 2.437 (| 002 5 GHz |

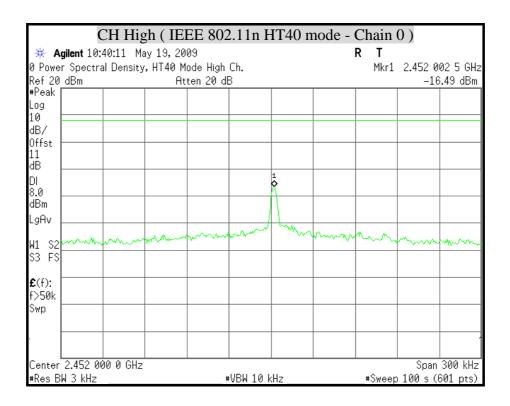


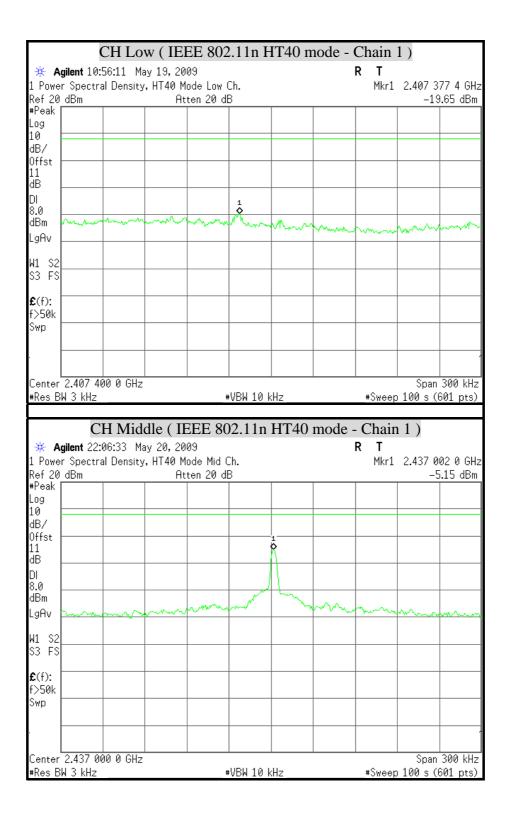
| | C | CH Hig | h (IEE | E 802. | 11n H | T20 C | ombine | ed mod | le) | |
|----------------|--------------------|-------------|-----------|-----------|----------|-------|----------------|--------|------------|-----------|
| ₩ A | gilent 16: | 59:34 Ma | ny 18, 20 | 09 | | | | RΤ | | |
| | | | HT20 Mod | | ı. | | | Mkr1 | 2.462 9 | 64 4 GHz |
| Ref 20 | dBm | | At | ten 20 di | 3 | | | | -5 | .42 dBm |
| #Peak | | | | | | | | | | |
| Log | | | | | | | | | | |
| 10 JD (| | | | | | | | | | |
| dB/ Offst | | | | | | | | | | |
| 16.5 | | | | | | | | | | |
| dB | man and the second | - Alexandre | مسممهم | mon | m | man | $\sim\sim\sim$ | mound | mond | man |
| DI 8.0 | | | | | | | | | | |
| 8.0 | | | | | | | | | | |
| dBm | | | | | | | | | | |
| LgAv | | | | | | | | | | |
| 114 00 | | | | | | | | | | |
| W1 S2 S3 FS | | | | | | | | | | |
| 33 F3 | | | | | | | | | | |
| £ (f): | | | | | | | | | | |
| f>50k | | | | | | | | | | |
| Swp | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| Center | 2.462 90 | 00 0 GHz | | | | | | | Span | 300 kHz |
| #Res B | W 3 kHz_ | | | # | VBW 10 k | :Hz | | #Sweep | b 100 s (M | 601 pts)_ |

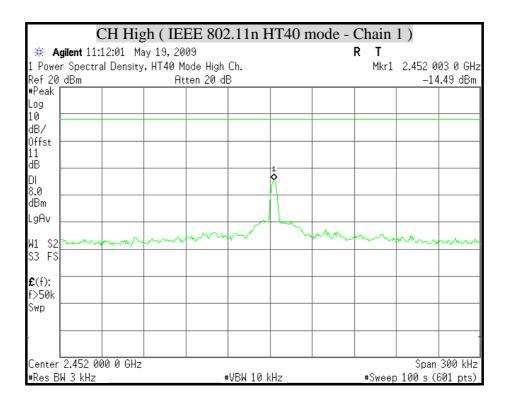


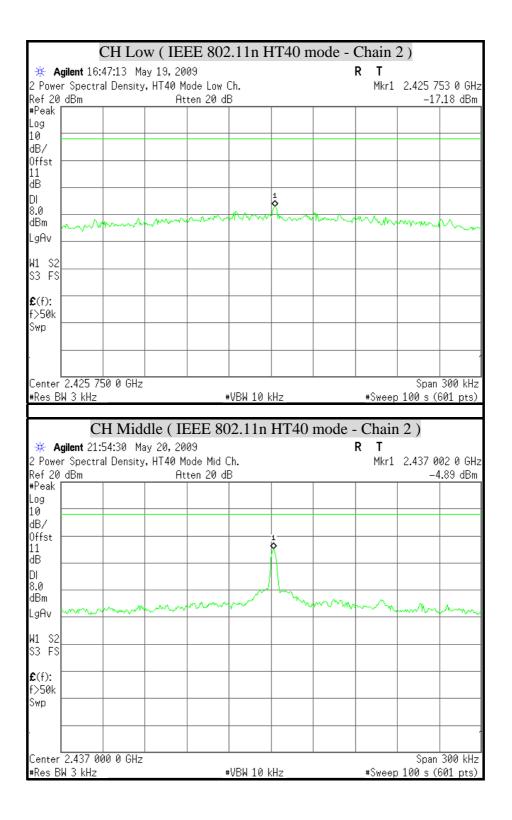
POWER SPECTRAL DENSITY (IEEE 802.11n HT40 mode)

| | (| CH Lo | w (IEl | EE 802 | 2.11n H | IT40 n | node - (| Chain | 0) | |
|--|---------------------------------------|-------------------|-----------------------------|-----------------------------------|----------------------|--------|----------|---|-----------------------|----------------------|
| ж А | gilent 10: | 22 : 39 Ma | ay 19, 20 | 09 | | | | RТ | | |
| | er Spectra | | | | Ch. | | | | 2.411 3 | 76 4 GHz |
| Ref 20 | dBm | _ | At | ten 20 di | В | | | | -17 | 7.93 dBm |
| #Peak | | | | | | | | | | |
| Log 10 | | | | | | | | | | |
| dB/ | | | | | | | | | | |
| 0ffst | | | | | | | | | | |
| 11 | | | | | | | | | | |
| dB | <u> </u> | | | | | | | | | |
| DI 8.0 | | | | | | | | | | |
| o.ø dBm | A 4.00 - | m | man | m | Amer | Munn | min | a so at | | |
| LgAv | 1 Contraction | ~~~ ` | | | | | | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | mmm |
| Light | | | | | | | | | | |
| W1 S2 | | | | | | | | | | |
| S3 FS | | | | | | | | | | |
| e (s. | | | | | | | | | | |
| £ (f): f>50k | | | | | | | | | | |
| Swp | | | | | | | | | | |
| ÷ | | | | | | | | | | |
| | <u> </u> | | | | | | | | | |
| | | | | | | | | | | |
| Center | 2.411 40 | 00 0 GHz | | | | | | | Span | 300 kHz |
| "Den D | | | | | | | | | | |
| #Kes B | 3W 3 kHz | | | + | ⊧VBW 10 k | (Hz | | #Sweep | o 100 s (| 601 pts)_ |
| #κes Β | SW 3 KHZ | | | + | ⊧VBW 10 k | (Hz | | _#Sweep | o 100 s (| 601 pts)_ |
| #ĸes b | | H Mid | dle (II | | | | mode - | | | 601 pts)_ |
| | C | | | EEE 80 | | | mode - | | | 601 pts)_ |
| ∦ A | | 18:40 Ma | ay 20, 20 | EEE 80 09 |)2.11n | | | Chain R T | n 0) | 601 pts) 02 5 GHz |
| ₩ A 0 Powe Ref 20 | C Agilent 22: er Spectra | 18:40 Ma | ay 20, 20 4, HT40 M | EEE 80 09 |)2.11n Ch. | | | Chain R T | 1 0) 2.4370 | |
| ∦ A 0 Powe Ref 20 #Peak | C Agilent 22: er Spectra | 18:40 Ma | ay 20, 20 4, HT40 M | E EE 8(09 ode Mid (|)2.11n Ch. | | | Chain R T | 1 0) 2.4370 | 02 5 GHz |
| ₩ A 0 Powe Ref 20 #Peak Log | C Agilent 22: er Spectra | 18:40 Ma | ay 20, 20 4, HT40 M | E EE 8(09 ode Mid (|)2.11n Ch. | | | Chain R T | 1 0) 2.4370 | 02 5 GHz |
| ₩ A 0 Powe Ref 20 #Peak Log 10 | C Agilent 22: er Spectra | 18:40 Ma | ay 20, 20 4, HT40 M | E EE 8(09 ode Mid (|)2.11n Ch. | | | Chain R T | 1 0) 2.4370 | 02 5 GHz |
| ₩ A 0 Powe Ref 20 #Peak Log | C Agilent 22: er Spectra | 18:40 Ma | ay 20, 20 4, HT40 M | E EE 8(09 ode Mid (|)2.11n Ch. | | | Chain R T | 1 0) 2.4370 | 02 5 GHz |
| ★ A Ø Powe Ref 20 #Peak Log 10 dB/ Offst 11 | C Agilent 22: er Spectra | 18:40 Ma | ay 20, 20 4, HT40 M | E EE 8(09 ode Mid (|)2.11n Ch. | | | Chain R T | 1 0) 2.4370 | 02 5 GHz |
| ★ A Ø Powe Ref 20 #Peak Log 10 dB/ 0ffst 11 dB | C Agilent 22: er Spectra | 18:40 Ma | ay 20, 20 4, HT40 M | E EE 8(09 ode Mid (|)2.11n Ch. | HT40 | | Chain R T | 1 0) 2.4370 | 02 5 GHz |
| ₩ A Ø Powe Ref 20 #Peak Log dB/ Offst 11 dB DI | C Agilent 22: er Spectra | 18:40 Ma | ay 20, 20 4, HT40 M | E EE 8(09 ode Mid (|)2.11n Ch. | HT40 | | Chain R T | 1 0) 2.4370 | 02 5 GHz |
| ★ A 0 Powe Ref 20 #Peak Log 10 dB/ 0ffst 11 dB DI 8.0 | C Agilent 22: er Spectra | 18:40 Ma | ay 20, 20 4, HT40 M | E EE 8(09 ode Mid (|)2.11n Ch. | HT40 | | Chain R T | 1 0) 2.4370 | 02 5 GHz |
| ★ A 0 Powe Ref 20 #Peak Log 10 dB/ 0ffst 11 dB DI 8.0 dBm | C Agilent 22: er Spectra | 18:40 Ma | ay 20, 20 4, HT40 M | E EE 8(09 ode Mid (|)2.11n Ch. | HT40 | | Chain R T | 1 0) 2.4370 | 02 5 GHz |
| ★ A 0 Powe Ref 20 #Peak Log 10 dB/ 0ffst 11 dB DI 8.0 | C Agilent 22: er Spectra | 18:40 Ma | ay 20, 20 4, HT40 M | E EE 8(09 ode Mid (|)2.11n Ch. | HT40 | | Chain R T | 1 0) 2.4370 | 02 5 GHz |
| ★ A 0 Powe Ref 20 #Peak Log 10 dB/ 0ffst 11 dB DI 8.0 dBm LgAv W1 S2 | C sgilent 22: or Spectra dBm | 18:40 Ma | ay 20, 20 4, HT40 M | E EE 8(09 ode Mid (|)2.11n Ch. | HT40 | | Chain R T | 1 0) 2.4370 | 02 5 GHz |
| Image: Weight of the second secon | C sgilent 22: or Spectra dBm | 18:40 Ma | ay 20, 20 4, HT40 M | E EE 8(09 ode Mid (|)2.11n Ch. | HT40 | | Chain R T | 1 0) 2.4370 | 02 5 GHz |
| ✗ A 0 Powe Ref 20 #Peak Log 10 dB/ 0ffst 11 dB DI 8.0 dBm LgAv S3 | C sgilent 22: or Spectra dBm | 18:40 Ma | ay 20, 20 4, HT40 M | E EE 8(09 ode Mid (|)2.11n Ch. | HT40 | | Chain R T | 1 0) 2.4370 | 02 5 GHz |
| ₩ A 0 Powe Ref 20 Ref 20 10 dB/ 10 dB/ 0ffst 11 dB DI 8.0 dBm LgAv W1 S2 S3 FS €(f): : | C sgilent 22: or Spectra dBm | 18:40 Ma | ay 20, 20 4, HT40 M | E EE 8(09 ode Mid (|)2.11n Ch. | HT40 | | Chain R T | 1 0) 2.4370 | 02 5 GHz |
| ₩ A 0 Powe Ref 20 Ref 20 10 dB/ 10 0ffst 11 dB 0 dB/ 0 0ffst 11 dB S.0 dBm LgAv W1 S2 S3 FS f>50k | C sgilent 22: or Spectra dBm | 18:40 Ma | ay 20, 20 4, HT40 M | E EE 8(09 ode Mid (|)2.11n Ch. | HT40 | | Chain R T | 1 0) 2.4370 | 02 5 GHz |
| ₩ A 0 Powe Ref 20 Ref 20 10 dB/ 10 dB/ 0ffst 11 dB DI 8.0 dBm LgAv W1 S2 S3 FS €(f): : | C sgilent 22: or Spectra dBm | 18:40 Ma | ay 20, 20 4, HT40 M | E EE 8(09 ode Mid (|)2.11n Ch. | HT40 | | Chain R T | 1 0) 2.4370 | 02 5 GHz |
| ₩ A 0 Powe Ref 20 Ref 20 10 dB/ 10 0ffst 11 dB 0 dB/ 0 0ffst 11 dB S.0 dBm LgAv W1 S2 S3 FS f>50k | C sgilent 22: or Spectra dBm | 18:40 Ma | ay 20, 20 4, HT40 M | E EE 8(09 ode Mid (|)2.11n Ch. | HT40 | | Chain R T | 1 0) 2.4370 | 02 5 GHz |
| ₩ A 0 Powe Ref 20 Ref 20 10 dB/ 10 0ffst 11 dB 0 dB/ 0 0ffst 11 dB S.0 dBm LgAv W1 S2 S3 FS f>50k | C sgilent 22: or Spectra dBm | 18:40 Ma | ay 20, 20 4, HT40 M | E EE 8(09 ode Mid (|)2.11n Ch. | HT40 | | Chain R T | 1 0) 2.4370 | 02 5 GHz |
| ₩ A 0 Powe Ref 20 Ref 20 10 dB/ 10 0ffst 11 dB 0 dB/ 0 0ffst 11 dB 8.0 dBm LgAv W1 S2 S3 FS f>50k Swp | C sgilent 22: or Spectra dBm | 18:40 Ma | ay 20, 20 , HT40 M At | E EE 8(09 ode Mid (|)2.11n Ch. | HT40 | | Chain R T | 2.437 0 { | 02 5 GHz |

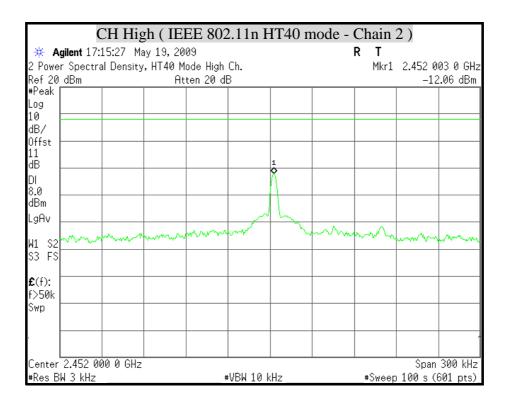










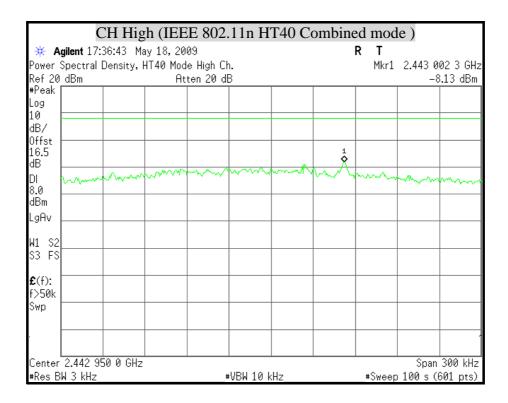


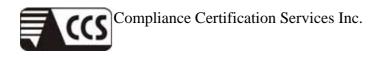


POWER SPECTRAL DENSITY (IEEE 802.11n HT40 Combined mode)

| | C | CH Lov | w (IEE | EE 802 | .11n H | T40 C | ombine | ed mod | le) | |
|---|---|----------------------------------|-----------------------------|-----------------------------------|----------|---------------|--------|----------------------|-----------------|-----------------------------------|
| ₩ А | gilent 17: | 14 : 57 Ma | ay 18, 20 | 09 | | | I | RТ | | |
| | Spectral | Density, H | | | | | | Mkr1 | 2.412 6 | 626 9 GHz |
| Ref 20 | dBm | | At | ten 20 d | 3 | | | | _! | 9.82 dBm |
| #Peak | | | | | | | | | | |
| Log 10 | | | | | | | | | | |
| dB/ | | | | | | | | | | |
| Offst | | | | | | | | | | |
| 16.5 | | | | | | | | | | |
| dB | A | | Linn | ham | In. | mon | | | | |
| DI 8.0 | rm | $\sim\sim$ | | | | Ť | 0,000 | winner | han | mm |
| dBm | | | | | | | | | | |
| LgAv | | | | | | | | | | |
| Lariv | | | | | | | | | | |
| W1 S2 | | | | | | | | | | |
| S3 FS | | | | | | | | | | |
| A/05 | | | | | | | | | | |
| £ (f): f>50k | | | | | | | | | | |
| f>50K Swp | | | | | | | | | | |
| νπρ | | | | | | | | | | |
| | | | | | | | | | | <u> </u> |
| - | | | | | | | | | | |
| Center | 2.412 65 | 50 0 GHz | | 1 | I | 1 | | | Span | 300 kHz |
| | | | | | | | | | | |
| #Res B | 3W 3 kHz | | | + | VBW 10 k | Hz | | #Sweep |) 100 s (| 601 pts)_ |
| #Res B | | | | + | VBW 10 k | (Hz | | _#Sweep |)100 s (| 601 pts)_ |
| #Res B | 3W 3 kHz | | dle (IE | | | | Combir | | | 601 pts)_ |
| | BW 3 kHz | H Mide | | EE 802 | | | Combin | ed mo | | 601 pts)_ |
| ∦ A | <u>W 3 kHz</u> Cl Agilent 22: | H Mide 24:45 Ma | ay 20, 20 | EE 802 09 | 2.11n H | | | ied mo R T | ode) | |
| ∦ A | <u>Cl</u> Cl gilent 22: Spectral | H Mide 24:45 Ma | ay 20, 20 HT40 Mod | EE 802 09 | 2.11n H | | | ied mo R T | de) 2.437 @ | 601 pts) 002 0 GHz 1.88 dBm |
| 🔆 🗚 Power | <u>Cl</u> Cl gilent 22: Spectral | H Mide 24:45 Ma | ay 20, 20 HT40 Mod | EE 80 2 09 e Mid Ch. | 2.11n H | | | ied mo R T | de) 2.437 @ |)02 0 GHz |
| ₩ A Power Ref 20 #Peak Log | <u>Cl</u> Cl gilent 22: Spectral | H Mide 24:45 Ma | ay 20, 20 HT40 Mod | EE 80 2 09 e Mid Ch. | 2.11n H | | | ied mo R T | de) 2.437 @ |)02 0 GHz |
| ₩ A Power Ref 20 #Peak Log 10 | <u>Cl</u> Cl gilent 22: Spectral | H Mide 24:45 Ma | ay 20, 20 HT40 Mod | EE 80 2 09 e Mid Ch. | 2.11n H | | | ied mo R T | de) 2.437 @ |)02 0 GHz |
| ₩ A Power Ref 20 #Peak Log 10 dB/ | <u>Cl</u> Cl gilent 22: Spectral | H Mide 24:45 Ma | ay 20, 20 HT40 Mod | EE 80 2 09 e Mid Ch. | 2.11n H | HT40 (| | ied mo R T | de) 2.437 @ |)02 0 GHz |
| ₩ A Power Ref 20 #Peak Log 10 | <u>Cl</u> Cl gilent 22: Spectral | H Mide 24:45 Ma | ay 20, 20 HT40 Mod | EE 80 2 09 e Mid Ch. | 2.11n H | HT40 (| | ied mo R T | de) 2.437 @ |)02 0 GHz |
| ₩ A Power Ref 20 #Peak Log 10 dB/ Offst | <u>Cl</u> Cl gilent 22: Spectral | H Mide 24:45 Ma | ay 20, 20 HT40 Mod | EE 80 2 09 e Mid Ch. | 2.11n H | HT40 (| | ied mo R T | de) 2.437 @ |)02 0 GHz |
| ₩ A Power Ref 20 #Peak Log dB/ 0ffst 16.5 dB DI | <u>Cl</u> Cl gilent 22: Spectral | H Mide 24:45 Ma | ay 20, 20 HT40 Mod | EE 80 2 09 e Mid Ch. | 2.11n H | HT40 (| | ied mo R T | de) 2.437 @ |)02 0 GHz |
| Power Ref 20 #Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 | <u>Cl</u> Cl gilent 22: Spectral | H Mide 24:45 Ma | ay 20, 20 HT40 Mod | EE 80 2 09 e Mid Ch. | 2.11n H | HT40 (| | ied mo R T | de) 2.437 @ |)02 0 GHz |
| Power Ref 20 #Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 dBm | <u>Cl</u> Cl gilent 22: Spectral | H Mide 24:45 Ma | ay 20, 20 HT40 Mod | EE 80 2 09 e Mid Ch. | 2.11n H | HT40 (| | ied mo R T | de) 2.437 @ |)02 0 GHz |
| Power Ref 20 #Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 | <u>Cl</u> Cl gilent 22: Spectral | H Mide 24:45 Ma | ay 20, 20 HT40 Mod | EE 80 2 09 e Mid Ch. | 2.11n H | HT40 (| | ied mo R T | de) 2.437 @ |)02 0 GHz |
| ₩ A Power Ref 20 #Peak Log 10 dB/ 0ffst 16.5 dB B DI 8.0 dBm LgAv | SW 3 kHz Cl Agilent 22: Spectral I dBm | H Mide 24:45 Ma | ay 20, 20 HT40 Mod | EE 80 2 09 e Mid Ch. | 2.11n H | HT40 (| | ied mo R T | de) 2.437 @ |)02 0 GHz |
| Power Ref 20 #Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 dBm | SW 3 kHz Cl Agilent 22: Spectral I dBm | H Mide 24:45 Ma | ay 20, 20 HT40 Mod | EE 80 2 09 e Mid Ch. | 2.11n H | HT40 (| | ied mo R T | de) 2.437 @ |)02 0 GHz |
| ₩ A Power Ref 20 #Peak Log 10 dB/ 0ffst 16.5 dB DI 8.0 dBm LgAv S3 | SW 3 kHz Cl Agilent 22: Spectral I dBm | H Mide 24:45 Ma | ay 20, 20 HT40 Mod | EE 80 2 09 e Mid Ch. | 2.11n H | HT40 (| | ied mo R T | de) 2.437 @ |)02 0 GHz |
| ₩ A Power Ref 20 Ref 20 10 dB/ 10 0ffst 16.5 dB DI 8.0 dBm LgAv \$3 K1 \$2 \$3 F\$ €(f): \$2 | SW 3 kHz Cl Agilent 22: Spectral I dBm | H Mide 24:45 Ma | ay 20, 20 HT40 Mod | EE 80 2 09 e Mid Ch. | 2.11n H | HT40 (| | ied mo R T | de) 2.437 @ |)02 0 GHz |
| ₩ A Power Ref 20 Ref 20 10 dB/ 10 0ffst 16.5 dB 0 dB/ 0 0ffst 16.5 dB S.0 dBm LgAv W1 S2 S3 FS f>50k f) | SW 3 kHz Cl Agilent 22: Spectral I dBm | H Mide 24:45 Ma | ay 20, 20 HT40 Mod | EE 80 2 09 e Mid Ch. | 2.11n H | HT40 (| | ied mo R T | de) 2.437 @ |)02 0 GHz |
| ₩ A Power Ref 20 Ref 20 10 dB/ 10 0ffst 16.5 dB DI 8.0 dBm LgAv \$3 K1 \$2 \$3 F\$ €(f): \$2 | SW 3 kHz Cl Agilent 22: Spectral I dBm | H Mide 24:45 Ma | ay 20, 20 HT40 Mod | EE 80 2 09 e Mid Ch. | 2.11n H | HT40 (| | ied mo R T | de) 2.437 @ |)02 0 GHz |
| ₩ A Power Ref 20 Ref 20 10 dB/ 10 0ffst 16.5 dB 0 dB/ 0 0ffst 16.5 dB S.0 dBm LgAv W1 S2 S3 FS f>50k f) | SW 3 kHz Cl Agilent 22: Spectral I dBm | H Mide 24:45 Ma | ay 20, 20 HT40 Mod | EE 80 2 09 e Mid Ch. | 2.11n H | HT40 (| | ied mo R T | de) 2.437 @ |)02 0 GHz |
| ₩ A Power Ref 20 Ref 20 10 dB/ 10 0ffst 16.5 dB 0 dB/ 0 0ffst 16.5 dB S.0 dBm LgAv W1 S2 S3 FS f>50k f) | SW 3 kHz Cl Agilent 22: Spectral I dBm | H Mide 24:45 Ma | ay 20, 20 HT40 Mod | EE 80 2 09 e Mid Ch. | 2.11n H | HT40 (| | ied mo R T | de) 2.437 @ |)02 0 GHz |
| ₩ A Power Ref 20 Ref 20 10 dB/ 10 0ffst 16.5 dB 0 dB/ 0 dB/ 0 dB 8.0 dBm LgAv W1 S2 S3 FS f>50k Swp | SW 3 kHz | H Midd 24:45 Ma Density, I | ay 20, 20 HT40 Mod At | EE 80 2 09 e Mid Ch. | 2.11n H | HT40 (| | ied mo R T | de) | 002 0 GHz 1.88 dBm |
| A Power Ref 20 #Peak Log 10 dB/ Offst 16.5 dB DI 8.0 dBm LgAv W1 S2 S3 FS £(f): f>50k Swp Center | SW 3 kHz Cl Agilent 22: Spectral I dBm | H Midd 24:45 Ma Density, I | ay 20, 20 HT40 Mod At | EE 802 | 2.11n H | | | ed mo R T Mkr1 | de) 2.437 @ |)02 0 GHz |







8.7 CONDUCTED SPURIOUS EMISSION

LIMITS

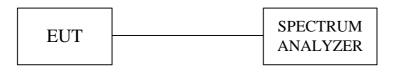
§ 15.247(d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the and that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in § 15.209(a) is not required. 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)).

TEST PROCEDURE

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

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.

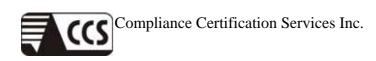
TEST SETUP



| Combine | ed mode | | |
|---------|-------------------------------|----------|--------------------------|
| EUT | Chain 0 Chain 1 Chain 2 | COMBINED | SPECTRUM ANALYZER |

TEST RESULTS

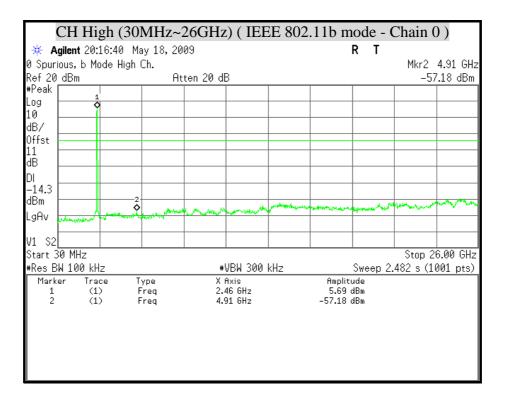
No non-compliance noted

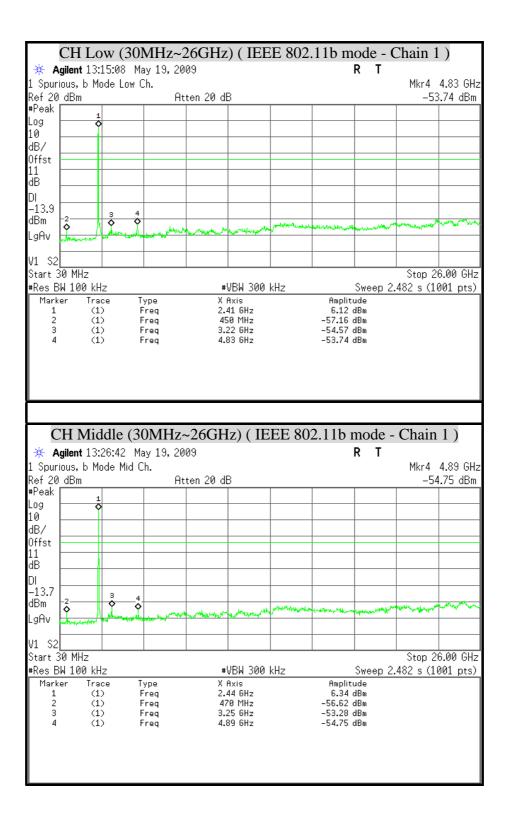


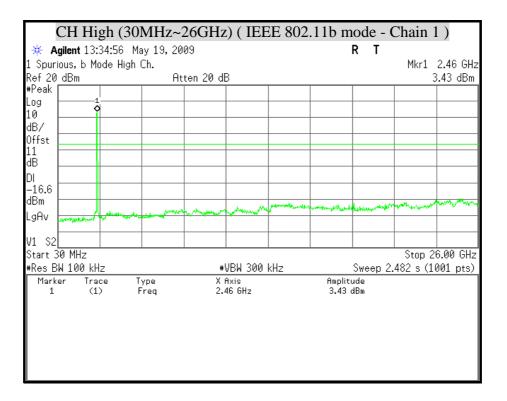
OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

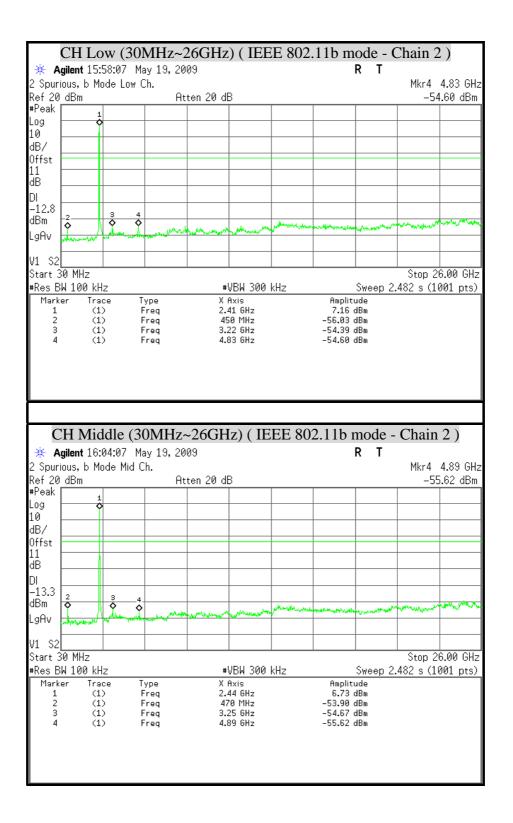
CH Low (30MHz~26GHz) (IEEE 802.11b mode - Chain 0) 🔆 Agilent 17:50:45 May 19, 2009 R Т 0 Spurious, b Mode Low Ch. Mkr3 4.83 GHz Ref 20 dBm Atten 20 dB -54.27 dBm #Peak Log 10 dB/ Offst 11 dB DI –14.5 dBm ŏ 0 LgAv V1 S2 Start 30 MHz Stop 26.00 GHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.482 s (1001 pts) Marker Trace X Axis Amplitude Туре 2.41 GHz 450 MHz 1 2 (1) (1) 5.53 dBm -55.45 dBm Freq Frea 3 (1)Freq 4.83 GHz -54.27 dBm CH Middle (30MHz~26GHz) (IEEE 802.11b mode - Chain 0) 🔆 Agilent 17:52:22 May 19, 2009 R Т 0 Spurious, b Mode Mid Ch. Mkr3 4.89 GHz Ref 20 dBm Atten 20 dB -56.25 dBm #Peak Log 10 dB/ Offst 11 dB DL -13.4 dBm 0 ٥ LgAv V1 S2 Stop 26.00 GHz Start 30 MHz #Res BW 100 kHz #VBW 300 kHz Sweep 2.482 s (1001 pts) Type Amplitude Marker Trace X Axis (1) Freq 2.44 GHz 6.59 dBm 1 2 (1) (1) Freq 470 MHz -56.14 dBm 3 4.89 GHz -56.25 dBm Frea

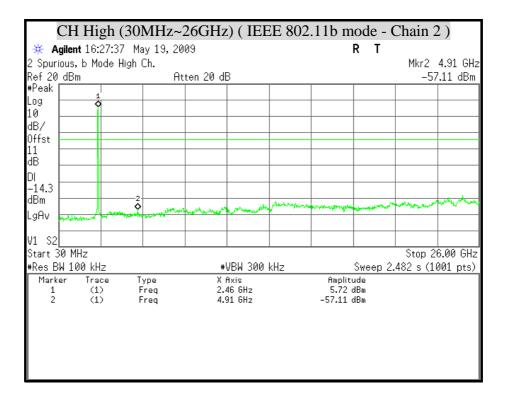
(IEEE 802.11b mode)

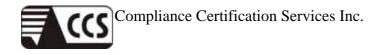






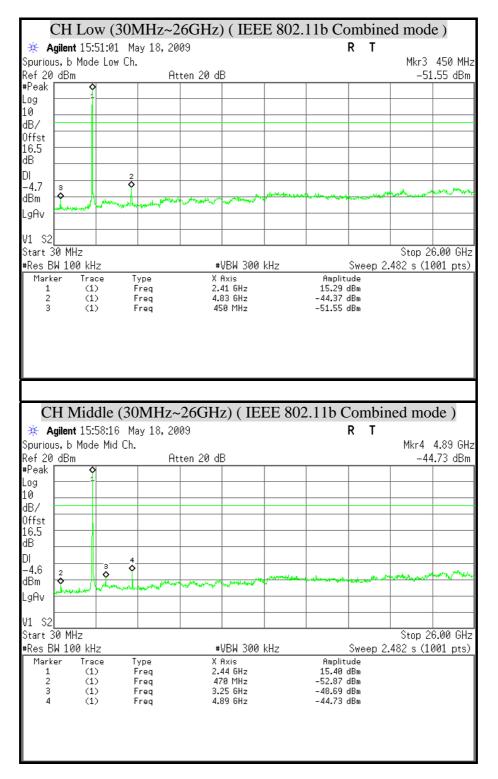


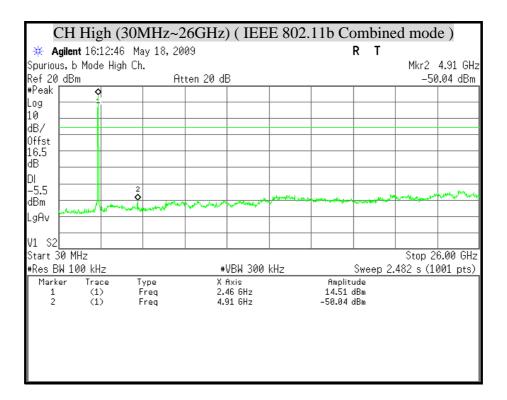


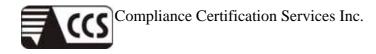


OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

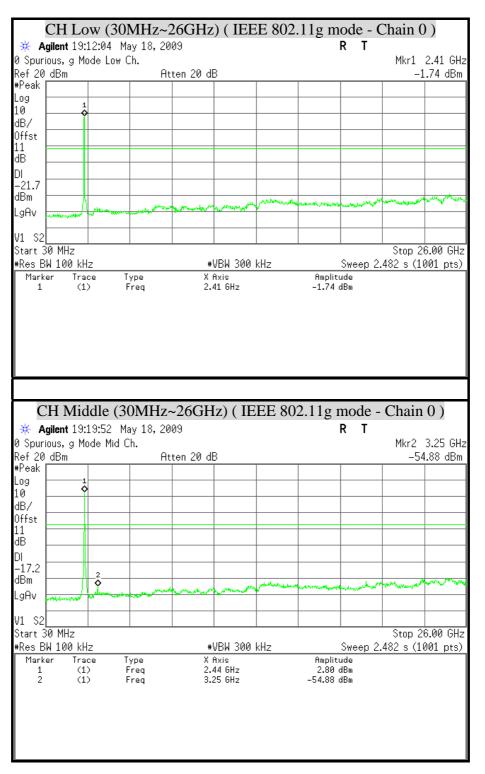
(IEEE 802.11b Combined mode)





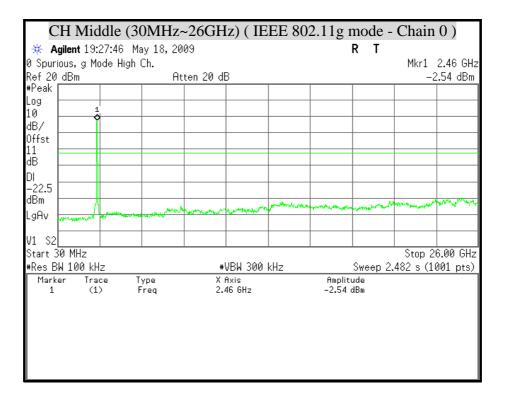


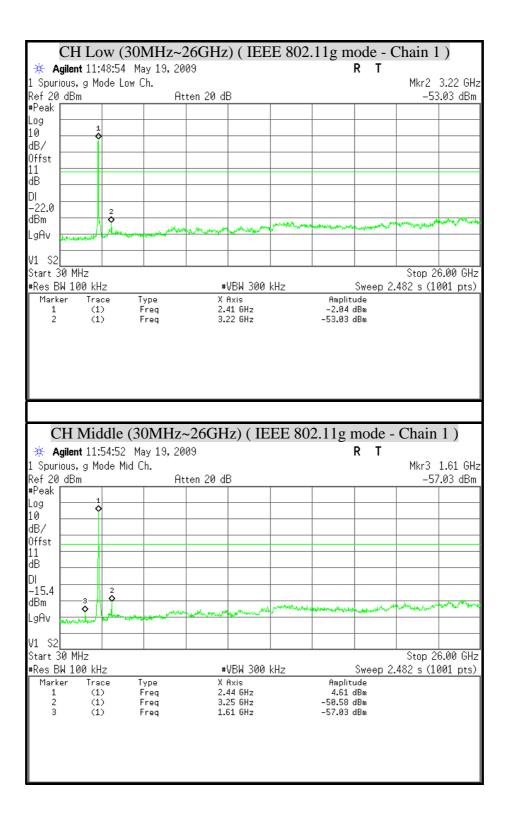
OUT-OF-BAND SPURIOUS EMISSIONS-CONDUCTED MEASUREMENT

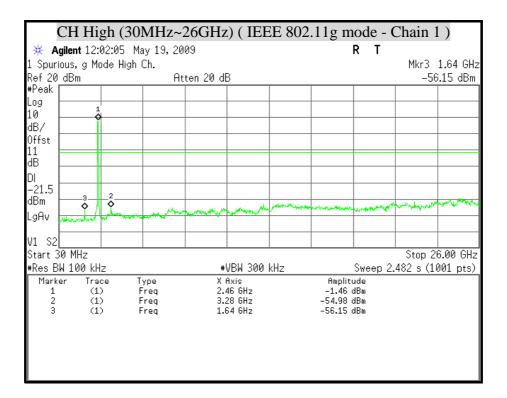


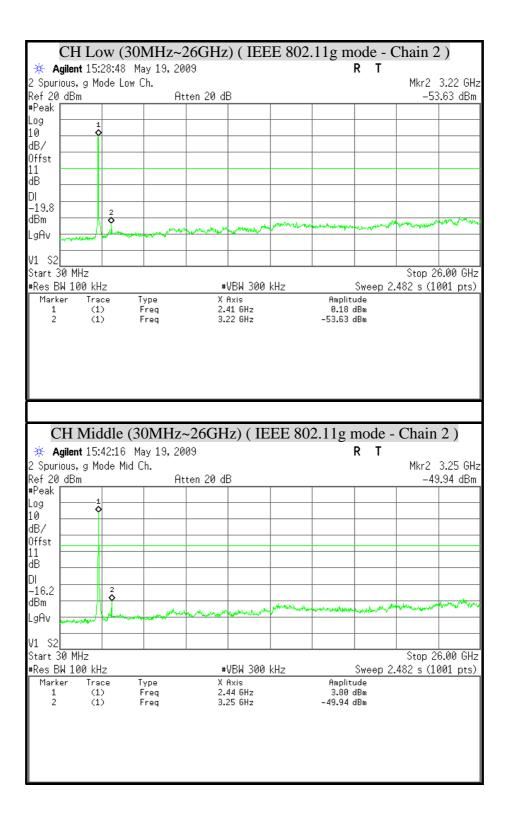
(IEEE 802.11g mode)

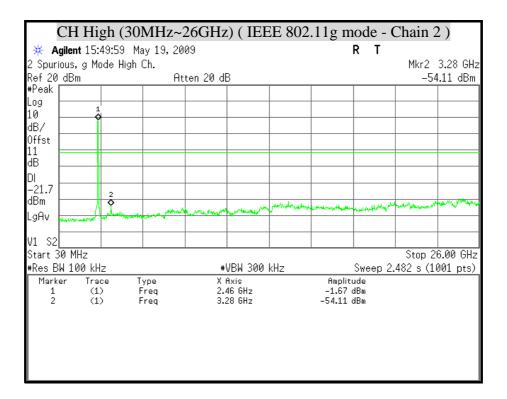


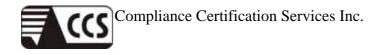




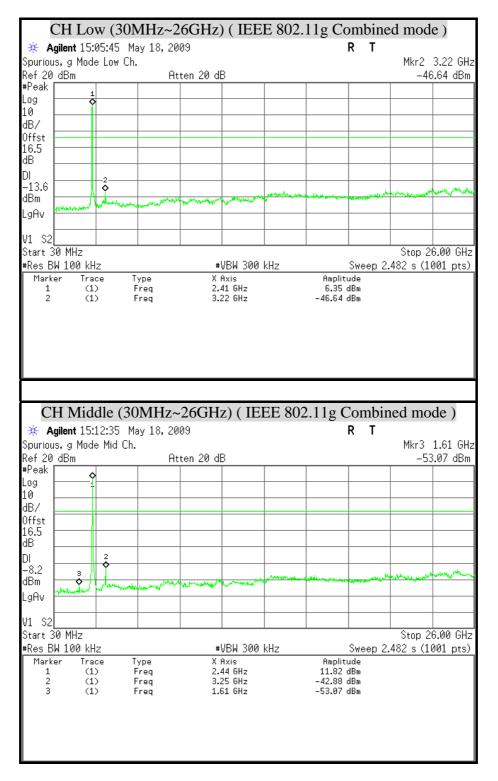


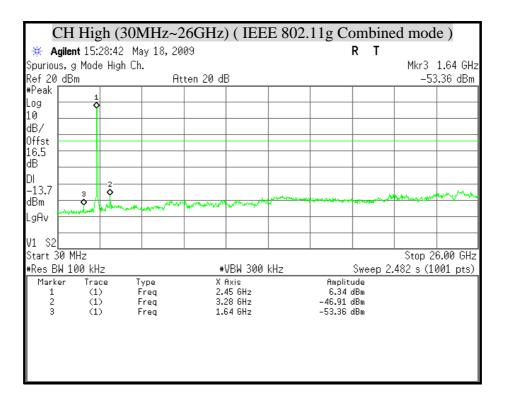


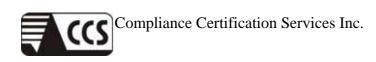




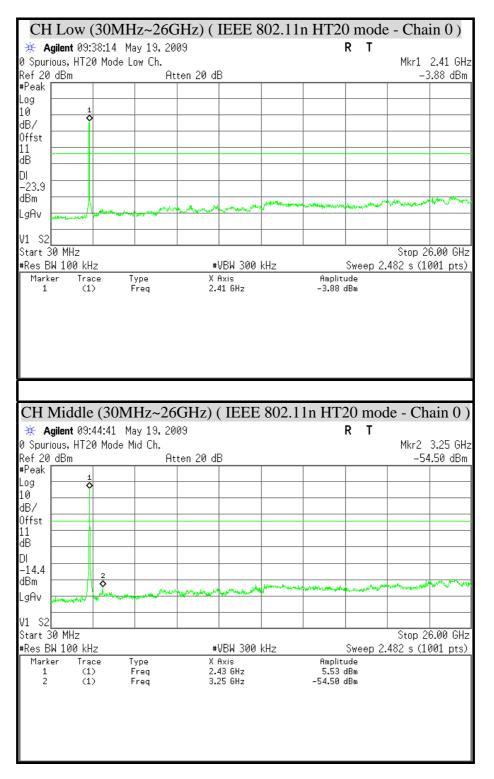
(IEEE 802.11g Combined mode)



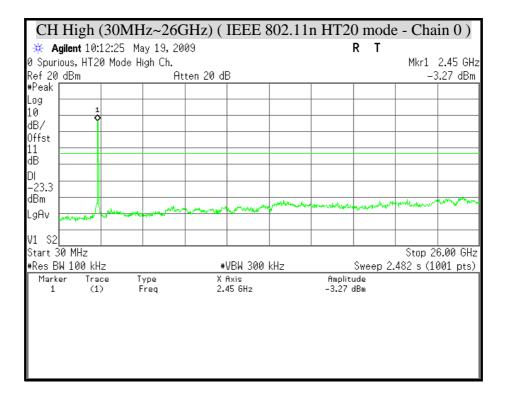


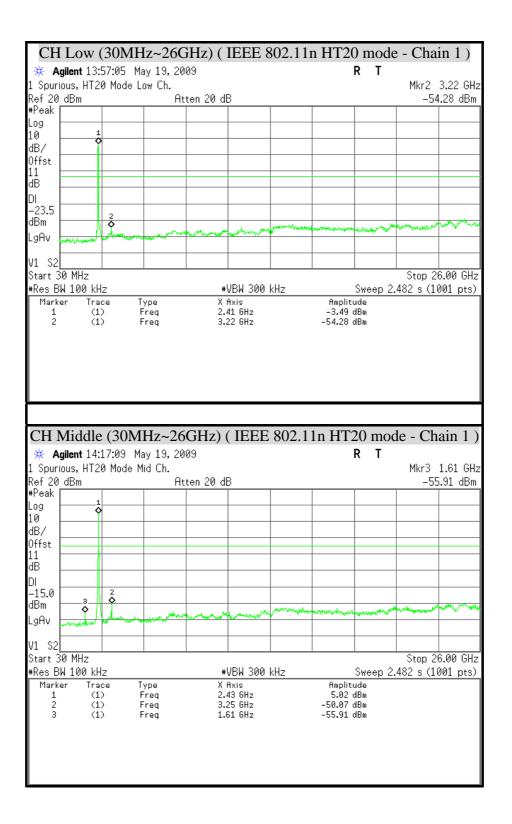


(IEEE 802.11n HT20 mode)

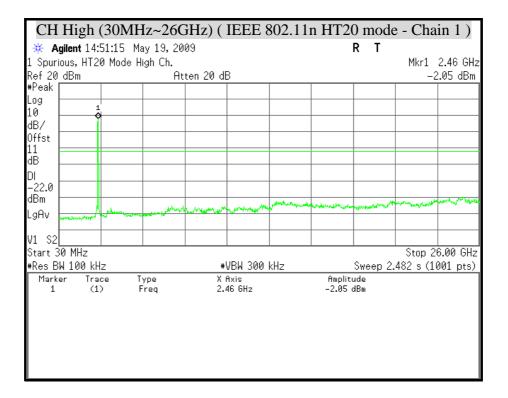


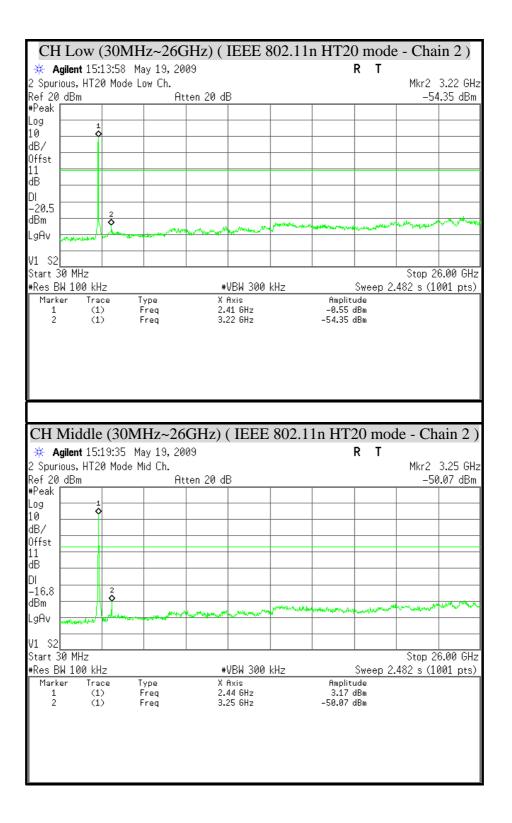




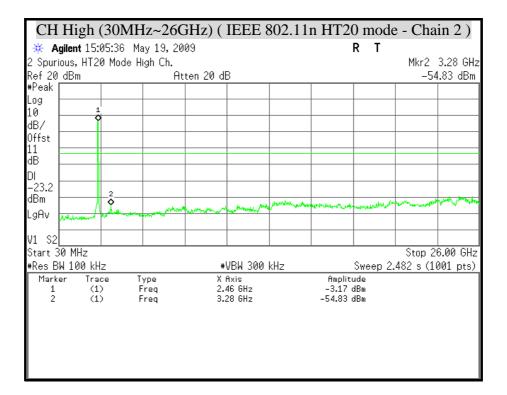


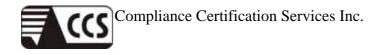




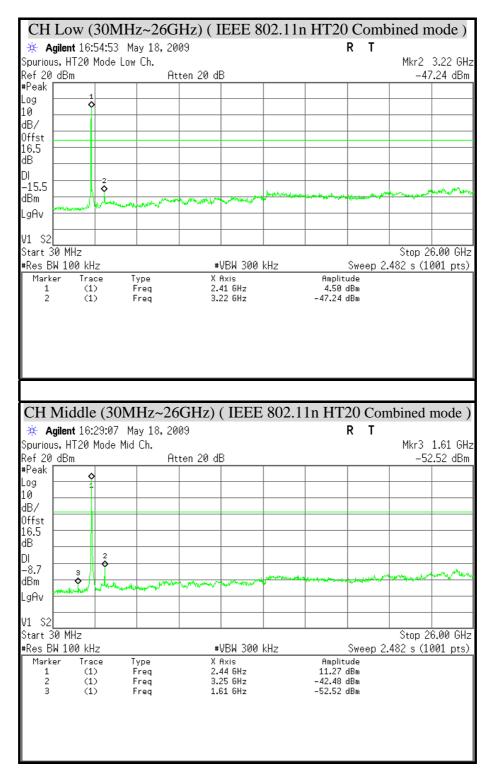




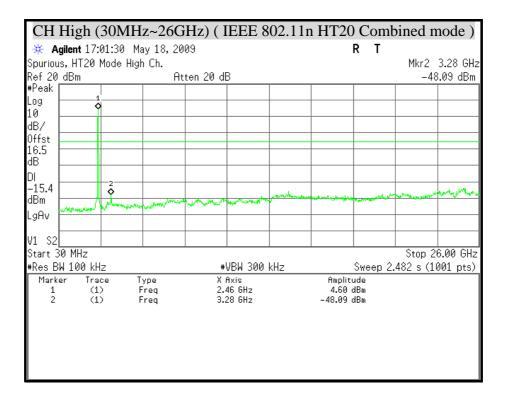


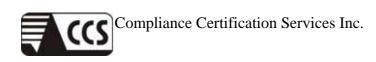


(IEEE 802.11n HT20 Combined mode)

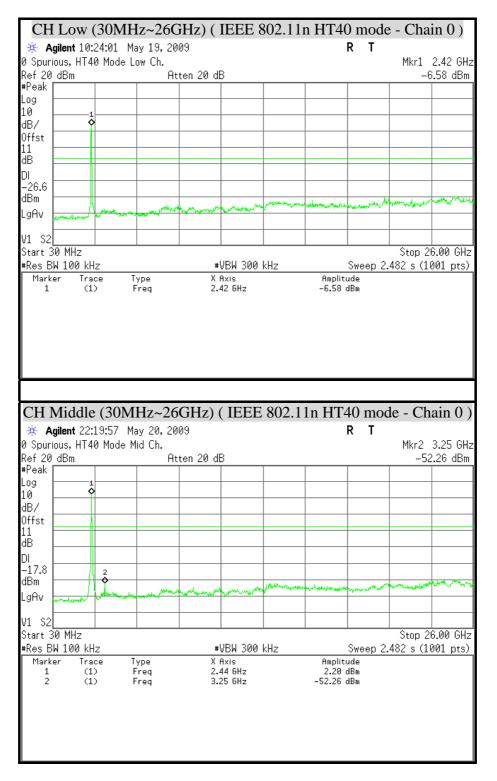




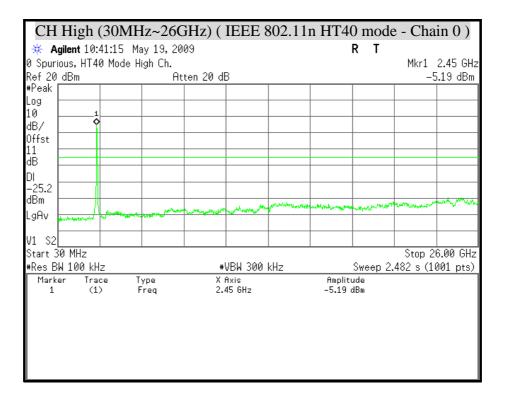


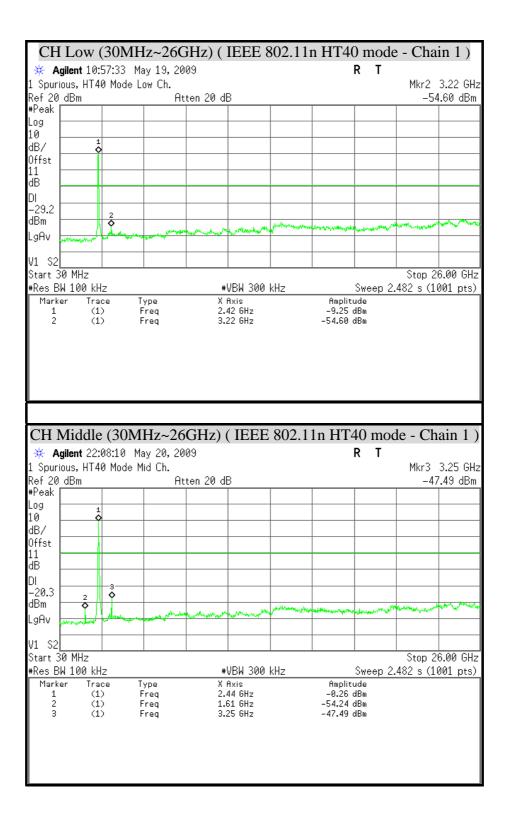


(IEEE 802.11n HT40 mode)

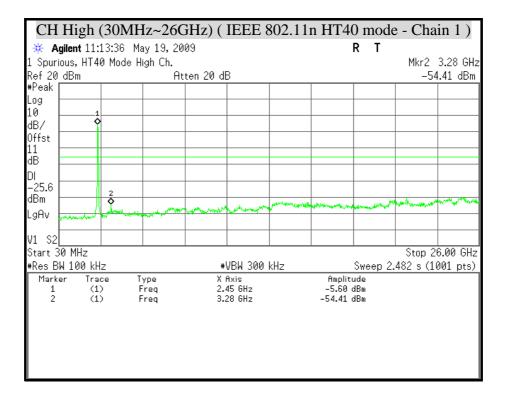


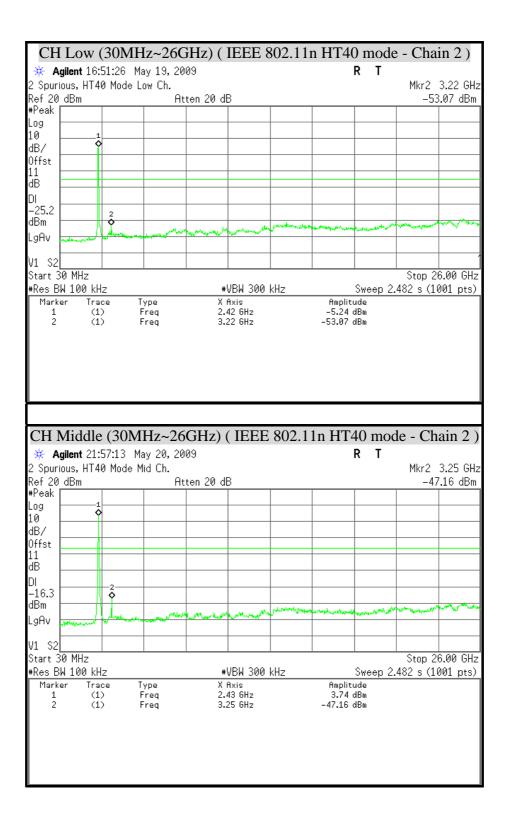




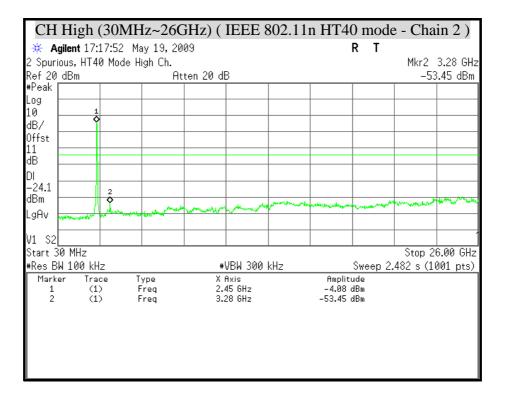


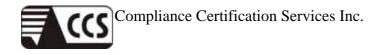




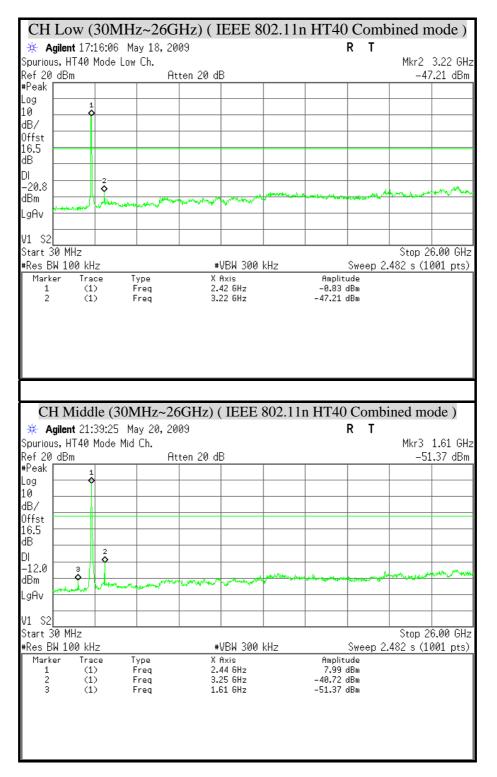




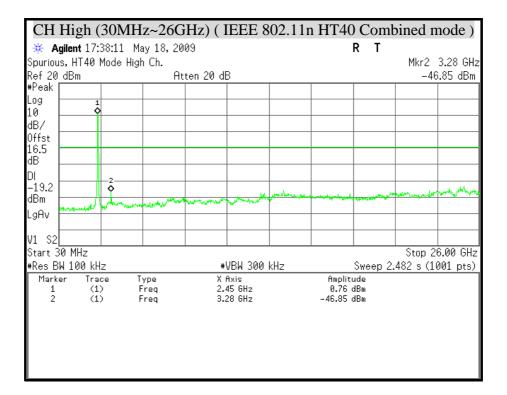


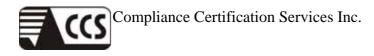


(IEEE 802.11n HT40 Combined mode)









8.8 RADIATED EMISSIONS

8.8.1 TRANSMITTER RADIATED SUPURIOUS EMSSIONS

LIMITS

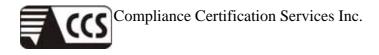
§ 15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| 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 - 3338 | 36.43 - 36.5 |
| 12.57675 - 12.57725 | 322 - 335.4 | 3600 - 4400 | (²) |
| 13.36 - 13.41 | | | |

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

² Above 38.6

§ 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 is 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.



§ 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 |

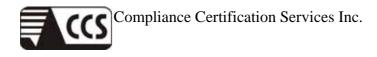
** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz, However, operation within these frequency bands is permitted under other sections of this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

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|-------------------------------------|----------------------|--------------------|---------------|--------------------|
| SPECTRUM ANALYZER | $\Delta(\dot{\tau})$ | | MY43360132 | 06/05/2009 |
| EMI TEST RECEIVER | R & S | ESCI | 100221 | 05/17/2010 |
| BILOG ANTENNA | SCHWARZBECK | VULB | 9168_249 | 09/17/2009 |
| 3117 Double Ridge (HORN) ANTENNA | ETS LINDGREN | EMCO-0746 | 00078732 | 05/19/2010 |
| PRE-AMPLIFIER | EM | EM30265 | 07032612 | 05/21/2010 |
| Notch Filters Band Reject | Micro-Tronics | BRM50702-01 | 009 | N.C.R. |
| RF COAXIAL CABLE | HUBERSUHNER | SUCOFLEX 104PEA | SN31350 | 07/21/2009 |

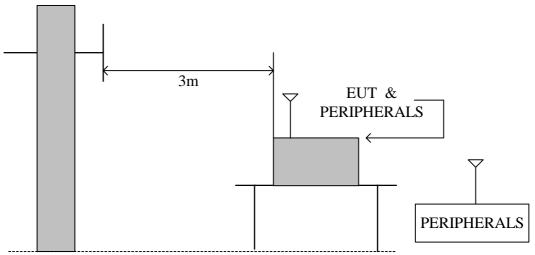
TEST EQUIPMENT

Remark: 1. Each piece of equipment is scheduled for calibration once a year. 2. N.C.R = No Calibration Request.



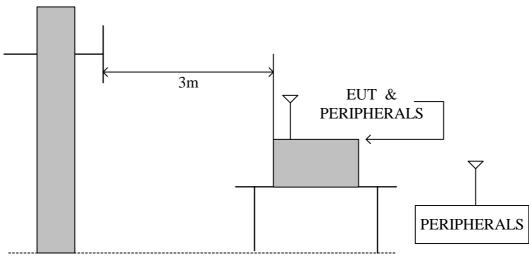
TEST SETUP

The diagram below shows the test setup that is utilized to make the measurements for emission from below 1GHz.

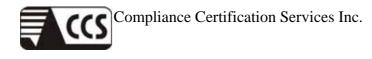


Antenna Elevation Variable

The diagram below shows the test setup that is utilized to make the measurements for emission above 1GHz.



Antenna Elevation Variable



TEST PROCEDURE

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. White measuring the radiated emission below 1GHz, the EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. White measuring the radiated emission above 1GHz, the EUT was set 3 meters away from the interference-receiving antenna.
- c. The antenna is a broadband antenna, and its height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarization of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10 dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10 dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.

Note :

- 1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120 KHz for Peak detection (PK) and Quasi-peak detection (QP) at frequency below 1GHz.
- 2. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz for Peak detection and frequency above 1GHz.
- 3. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 10 Hz for Average detection (AV) at frequency above 1GHz.

TEST RESULTS

No non-compliance noted

8.8.2 WORST-CASE RADIATED EMISSION BELOW 1 GHz

This EUT have four adapter with 4 testing modes of CH Low, Middle, High and Normal Link. After verified, we chose the Power Adapter (2) Normal Link as the worst case.

| Product Name | RANGEBOOSTER N 650 ACCESS POINT | Test Date | 2009/04/16 |
|--------------|--|-----------------|--------------------------|
| Model | DAP-1353 | Test By | Rick Lin |
| Test Mode | Normal operating / Power Adapter (2) (worst-case) | TEMP & Humidity | 23.9 [°] C, 57% |

| | | | Horizontal | | | |
|--------------------|-------------------|--------------------------------|--------------------|-------------------|----------------|--------|
| Frequency (MHz) | Reading (dBµV) | Correction Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Remark |
| 30.00 | 65.85 | -32.25 | 33.60 | 40.00 | -6.40 | Peak |
| 49.40 | 57.63 | -30.27 | 27.37 | 40.00 | -12.63 | Peak |
| 169.68 | 61.49 | -31.32 | 30.17 | 43.50 | -13.33 | Peak |
| 236.61 | 67.27 | -31.24 | 36.03 | 46.00 | -9.97 | Peak |
| 241.46 | 64.94 | -30.78 | 34.16 | 46.00 | -11.84 | Peak |
| 476.20 | 61.22 | -25.55 | 35.67 | 46.00 | -10.33 | Peak |
| 574.17 | 56.85 | -23.83 | 33.02 | 46.00 | -12.98 | Peak |
| 649.83 | 55.28 | -22.62 | 32.66 | 46.00 | -13.34 | Peak |
| | | | | | | |
| | | | Vertical | | | |
| Frequency (MHz) | Reading (dBµV) | Correction Factor (dB/m) | Result (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Remark |
| 50.37 | 66.80 | -30.33 | 36.47 | 40.00 | -3.53 | QP |
| 81.41 | 67.93 | -36.20 | 31.74 | 40.00 | -8.26 | Peak |
| 168.71 | 65.12 | -31.24 | 33.88 | 43.50 | -9.62 | Peak |
| 249.22 | 63.46 | -30.34 | 33.12 | 46.00 | -12.88 | Peak |
| 363.68 | 64.92 | -27.51 | 37.41 | 46.00 | -8.59 | Peak |
| 476.20 | 62.27 | -25.55 | 36.72 | 46.00 | -9.28 | Peak |
| 600.36 | 57.43 | -23.31 | 34.12 | 46.00 | -11.88 | Peak |
| 902.03 | 57.61 | -18.98 | 38.64 | 46.00 | -7.36 | Peak |

Remark:

1. Quasi-peak test would be performed if the peak result were greater than the quasi-peak limit.

2. 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.

3. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Loss (dB) - PreAmp.Gain (dB)

- 4. Result (dBuV/m) = Reading (dBuV) + Correction Factor (dB/m)
- 5. Margin (dB) = Remark result (dBuV/m) Quasi-peak limit (dBuV/m).

8.8.3 TRANSMITTER RADIATED EMISSION ABOVE 1 GHz

| Product Name | RANGEBOOSTER N 650 ACCESS POINT | Test Date | 2009/05/15 |
|--------------|------------------------------------|----------------------------|-------------|
| Model | DAP-1353 | Test By | Rueyyan Lin |
| Test Mode | IEEE 802.11b TX (CH Low) | TEMP & Humidity | 25.1°C, 59% |

| | Horizontal | | | | | | | | |
|--------------------|----------------------|----------------------|--------------------------------|-----------------------|-------|----------------------|----------------------|----------------|---------|
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | | Limit-PK (dBµV/m) | Limit-AV (dBµV/m) | Margin (dB) | Remark |
| 2414.00 | 118.68 | | -8.94 | 109.74 | | | | | Carrier |
| | | | | Vertical | [| 1 | | | |
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | | Limit-PK (dBµV/m) | Limit-AV (dBµV/m) | Margin (dB) | Remark |
| 2414.00 | 122.38 | | -8.94 | 113.44 | | | | | Carrier |
| 3217.50 | 55.44 | | -7.79 | 47.65 | | 74.00 | 54.00 | -6.35 | Peak |
| 4822.50 | 59.36 | 55.90 | -4.56 | 54.80 | 51.34 | 74.00 | 54.00 | -2.66 | AVG |

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

2. 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.

3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

| Product Name | RANGEBOOSTER N 650 ACCESS POINT | Test Date | 2009/05/15 |
|--------------|------------------------------------|----------------------------|-------------|
| Model | DAP-1353 | Test By | Rueyyan Lin |
| Test Mode | IEEE 802.11b TX (CH Middle) | TEMP & Humidity | 25.1°C, 59% |

| | Horizontal | | | | | | | | |
|--------------------|----------------------|----------------------|--------------------------------|-----------------------|-------|----------------------|----------------------|----------------|---------|
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | | Limit-PK (dBµV/m) | Limit-AV (dBµV/m) | Margin (dB) | Remark |
| 2438.00 | 117.54 | | -8.92 | 108.62 | | | | | Carrier |
| | | | | Vertical | l | | | | |
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | | Limit-PK (dBµV/m) | Limit-AV (dBµV/m) | Margin (dB) | Remark |
| 2438.00 | 124.70 | | -8.92 | 115.78 | | | | | Carrier |
| 3247.50 | 54.77 | | -7.75 | 47.02 | | 74.00 | 54.00 | -6.98 | Peak |
| 4875.00 | 60.35 | 56.73 | -4.42 | 55.93 | 52.31 | 74.00 | 54.00 | -1.69 | AVG |

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

2. 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.

3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

| Product Name | RANGEBOOSTER N 650 ACCESS POINT | Test Date | 2009/05/15 |
|--------------|------------------------------------|----------------------------|-------------|
| Model | DAP-1353 | Test By | Rueyyan Lin |
| Test Mode | IEEE 802.11b TX (CH High) | TEMP & Humidity | 25.1°C, 59% |

| | Horizontal | | | | | | | | |
|--------------------|----------------------|----------------------|--------------------------------|-----------------------|---|----------------------|-------|----------------|---------|
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | | Limit-PK (dBµV/m) | | Margin (dB) | Remark |
| 2462.00 | 115.08 | | -8.89 | 106.19 | | | | | Carrier |
| | | | | Vertical | 1 | | | | |
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | | Limit-PK (dBµV/m) | | Margin (dB) | Remark |
| 2462.00 | 122.19 | | -8.89 | 113.30 | | | | | Carrier |
| 4927.50 | 53.50 | | -4.29 | 49.21 | | 74.00 | 54.00 | -4.79 | Peak |

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

2. 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.

3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

| Product Name | RANGEBOOSTER N 650 ACCESS POINT | Test Date | 2009/05/15 |
|--------------|------------------------------------|----------------------------|-------------|
| Model | DAP-1353 | Test By | Rueyyan Lin |
| Test Mode | IEEE 802.11g TX (CH Low) | TEMP & Humidity | 25.1°C, 59% |

| | Horizontal | | | | | | | | |
|--------------------|----------------------|----------------------|--------------------------------|-----------------------|-----------------------|----------------------|----------------------|----------------|---------|
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | Result-AV (dBµV/m) | Limit-PK (dBµV/m) | | Margin (dB) | Remark |
| 2416.00 | 114.89 | | -8.94 | 105.95 | | | | | Carrier |
| | | | | Vertical | l | | | | |
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | | Limit-PK (dBµV/m) | Limit-AV (dBµV/m) | Margin (dB) | Remark |
| 2418.00 | 119.18 | | -8.94 | 110.24 | | | | | Carrier |
| 3217.50 | 55.26 | | -7.79 | 47.47 | | 74.00 | 54.00 | -6.53 | Peak |

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

2. 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.

3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

| Product Name | RANGEBOOSTER N 650 ACCESS POINT | Test Date | 2009/05/15 |
|--------------|------------------------------------|----------------------------|-------------|
| Model | DAP-1353 | Test By | Rueyyan Lin |
| Test Mode | IEEE 802.11g TX (CH Middle) | TEMP & Humidity | 25.1°C, 59% |

| | Horizontal | | | | | | | | | |
|--------------------|----------------------|----------------------|--------------------------------|-----------------------|-------|-------|----------------------|----------------|---------|--|
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | | - | Limit-AV (dBµV/m) | Margin (dB) | Remark | |
| 2436.00 | 121.37 | | -8.92 | 112.45 | | | | | Carrier | |
| 3247.50 | 53.69 | | -7.75 | 45.94 | | 74.00 | 54.00 | -8.06 | Peak | |
| | Vertical | | | | | | | | | |
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | | - | Limit-AV (dBµV/m) | Margin (dB) | Remark | |
| 2434.00 | 126.25 | | -8.92 | 117.33 | | | | | Carrier | |
| | | | | 57.00 | 53.70 | 74.00 | 54.00 | -0.30 | AV/C | |
| 3247.50 | 64.97 | 61.45 | -7.75 | 57.22 | 55.70 | 74.00 | 54.00 | -0.30 | AVG | |

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

2. 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.

3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

| Product Name | RANGEBOOSTER N 650 ACCESS POINT | Test Date | 2009/05/15 |
|--------------|------------------------------------|-----------------|-------------|
| Model | DAP-1353 | Test By | Rueyyan Lin |
| Test Mode | IEEE 802.11g TX (CH High) | TEMP & Humidity | 25.1°C, 59% |

| | | | | Horizont | al | | | | |
|--------------------|----------------------|----------------------|--------------------------------|-----------------------|-----------------------|-------|----------------------|----------------|---------|
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | | | Limit-AV (dBµV/m) | Margin (dB) | Remark |
| 2462.00 | 112.88 | | -8.89 | 103.99 | | | | | Carrier |
| 4995.00 | 52.14 | | -4.12 | 48.03 | | 74.00 | 54.00 | -5.97 | Peak |
| 7372.50 | 49.82 | | -0.79 | 49.03 | | 74.00 | 54.00 | -4.97 | Peak |
| | | | | Vertical | l | | | | |
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | Result-AV (dBµV/m) | | Limit-AV (dBµV/m) | Margin (dB) | Remark |
| 2458.00 | 121.24 | | -8.90 | 112.34 | | | | | Carrier |
| 3285.00 | 55.52 | | -7.69 | 47.82 | | 74.00 | 54.00 | -6.18 | Peak |
| 4995.00 | 52.20 | | -4.12 | 48.08 | | 74.00 | 54.00 | -5.92 | Peak |

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

2. 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.

3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

| Product Name | RANGEBOOSTER N 650 ACCESS POINT | Test Date | 2009/05/15 |
|--------------|------------------------------------|----------------------------|-------------|
| Model | DAP-1353 | Test By | Rueyyan Lin |
| Test Mode | IEEE 802.11n HT20 TX (CH Low) | TEMP & Humidity | 25.1°C, 59% |

| | Horizontal | | | | | | | | | |
|--------------------|----------------------|----------------------|--------------------------------|-----------------------|---|----------------------|----------------------|----------------|---------|--|
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | | Limit-PK (dBµV/m) | Limit-AV (dBµV/m) | Margin (dB) | Remark | |
| 2408.00 | 114.51 | | -8.95 | 105.55 | | | | | Carrier | |
| 3427.50 | 53.33 | | -7.48 | 45.85 | | 74.00 | 54.00 | -8.15 | Peak | |
| | | | | Vertical | l | | | | | |
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | | Limit-PK (dBµV/m) | Limit-AV (dBµV/m) | Margin (dB) | Remark | |
| 2410.00 | 117.51 | | -8.95 | 108.56 | | | | | Carrier | |
| 3217.50 | 55.03 | | -7.79 | 47.23 | | 74.00 | 54.00 | -6.77 | Peak | |

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

2. 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.

- 3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.
- 4. Result = Reading + Correction Factor Margin = Result – Limit Remark Peak = Result(PK) – Limit(AV) Remark AVG = Result(AV) – Limit(AV)

| Product Name | RANGEBOOSTER N 650 ACCESS POINT | Test Date | 2009/05/15 |
|--------------|------------------------------------|----------------------------|-------------|
| Model | DAP-1353 | Test By | Rueyyan Lin |
| Test Mode | IEEE 802.11n HT20 TX (CH Middle) | TEMP & Humidity | 25.1°C, 59% |

| | | | | Horizont | al | | | | |
|--------------------|----------------------|----------------------|--------------------------------|-----------------------|-----------------------|----------------------|----------------------|----------------|---------|
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | Result-AV (dBµV/m) | | Limit-AV (dBµV/m) | Margin (dB) | Remark |
| 2442.00 | 121.90 | | -8.91 | 112.99 | | | | | Carrier |
| 3247.50 | 54.91 | | -7.75 | 47.16 | | 74.00 | 54.00 | -6.84 | Peak |
| 7320.00 | 48.81 | | -0.83 | 47.99 | | 74.00 | 54.00 | -6.01 | Peak |
| | | | | Vertical | l | | | | |
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | Result-AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-AV (dBµV/m) | Margin (dB) | Remark |
| 2442.00 | 126.50 | 116.71 | -8.91 | 117.58 | 107.80 | | | | Carrier |
| 3247.50 | 65.23 | 61.99 | -7.75 | 57.48 | 54.24 | 97.58 | 87.80 | -33.56 | AVG |
| 4867.50 | 53.29 | | -4.44 | 48.84 | | 74.00 | 54.00 | -5.16 | Peak |
| 7312.50 | 50.74 | | -0.83 | 49.90 | | 74.00 | 54.00 | -4.10 | Peak |

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

2. 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.

3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

4. Result = Reading + Correction Factor Margin = Result – Limit Remark Peak = Result(PK) – Limit(AV)

Remark AVG = Result(AV) - Limit(AV)

| Product Name | RANGEBOOSTER N 650 ACCESS POINT | Test Date | 2009/05/15 |
|--------------|------------------------------------|----------------------------|-------------|
| Model | DAP-1353 | Test By | Rueyyan Lin |
| Test Mode | IEEE 802.11n HT20 TX (CH High) | TEMP & Humidity | 25.1°C, 59% |

| | Horizontal | | | | | | | | | |
|--------------------|----------------------|----------------------|--------------------------------|-----------------------|-----------------------|----------------------|----------------------|----------------|---------|--|
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | Result-AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-AV (dBµV/m) | Margin (dB) | Remark | |
| 2462.00 | 110.35 | | -8.89 | 101.46 | | | | | Carrier | |
| 3322.50 | 52.54 | | -7.64 | 44.90 | | 74.00 | 54.00 | -9.10 | Peak | |
| | | | - | Vertical | l | - | | | - | |
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | Result-AV (dBµV/m) | Limit-PK (dBµV/m) | Limit-AV (dBµV/m) | Margin (dB) | Remark | |
| 2458.00 | 118.30 | | -8.90 | 109.40 | | | | | Carrier | |
| 2430.00 | | | | | | | | | | |
| 3285.00 | 55.17 | | -7.69 | 47.48 | | 74.00 | 54.00 | -6.52 | Peak | |

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

2. 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.

3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

| Product Name | RANGEBOOSTER N 650 ACCESS POINT | Test Date | 2009/05/15 |
|--------------|------------------------------------|----------------------------|-------------|
| Model | DAP-1353 | Test By | Rueyyan Lin |
| Test Mode | IEEE 802.11n HT40 TX (CH Low) | TEMP & Humidity | 25.1°C, 59% |

| Horizontal | | | | | | | | | |
|--------------------|----------------------|----------------------|--------------------------------|-----------------------|--|----------------------|-------|----------------|---------|
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | | - | | Margin (dB) | Remark |
| 2412.00 | 107.04 | | -8.95 | 98.10 | | | | | Carrier |
| Vertical | | | | | | | | | |
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | | Limit-PK (dBµV/m) | | Margin (dB) | Remark |
| 2414.00 | 111.59 | | -8.94 | 102.65 | | | | | Carrier |
| 3232.50 | 55.26 | | -7.77 | 47.49 | | 74.00 | 54.00 | -6.51 | Peak |

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

2. 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.

3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

| Product Name | RANGEBOOSTER N 650 ACCESS POINT | Test Date | 2009/05/15 |
|--------------|------------------------------------|----------------------------|-------------|
| Model | DAP-1353 | Test By | Rueyyan Lin |
| Test Mode | IEEE 802.11n HT40 TX (CH Middle) | TEMP & Humidity | 25.1°C, 59% |

| | Horizontal | | | | | | | | |
|--------------------|----------------------|----------------------|--------------------------------|-----------------------|-------|-------|----------------------|----------------|----------------|
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | | - | Limit-AV (dBµV/m) | Margin (dB) | Remark |
| 2426.00 | 118.89 | | -8.93 | 109.95 | | | | | Carrier |
| 3247.50 | 52.99 | | -7.75 | 45.24 | | 74.00 | 54.00 | -8.76 | Peak |
| | Vertical | | | | | | | | |
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | | - | Limit-AV (dBµV/m) | Margin (dB) | Remark |
| | 105.01 | | 0.01 | 116.31 | | | | | ~ . |
| 2448.00 | 125.21 | | -8.91 | 110.51 | | | | | Carrier |
| 2448.00 3247.50 | 63.31 | 58.89 | -8.91 | 55.56 | 51.14 | 74.00 | 54.00 | -2.86 | Carrier AVG |

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

2. 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.

3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

4. Result = Reading + Correction Factor Margin = Result – Limit Remark Peak = Result(PK) – Limit(AV) Remark AVG = Result(AV) – Limit(AV)

| Product Name | RANGEBOOSTER N 650 ACCESS POINT | Test Date | 2009/05/15 |
|--------------|------------------------------------|----------------------------|-------------|
| Model | DAP-1353 | Test By | Rueyyan Lin |
| Test Mode | IEEE 802.11n HT40 TX (CH High) | TEMP & Humidity | 25.1°C, 59% |

| | Horizontal | | | | | | | | |
|--------------------|----------------------|----------------------|--------------------------------|-----------------------|-----------------------|----------------------|----------------------|----------------|---------|
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | Result-AV (dBµV/m) | Limit-PK (dBµV/m) | | Margin (dB) | Remark |
| 2436.00 | 110.04 | | -8.92 | 101.12 | | | | | Carrier |
| | | | | Vertical | | • | | | |
| Frequency (MHz) | Reading-PK (dBµV) | Reading-AV (dBµV) | Correction Factor (dB/m) | Result-PK (dBµV/m) | Result-AV (dBµV/m) | | Limit-AV (dBµV/m) | Margin (dB) | Remark |
| 2458.00 | 117.70 | | -8.90 | 108.80 | | | | | Carrier |
| 3270.00 | 55.19 | | -7.71 | 47.48 | | 74.00 | 54.00 | -6.52 | Peak |

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.

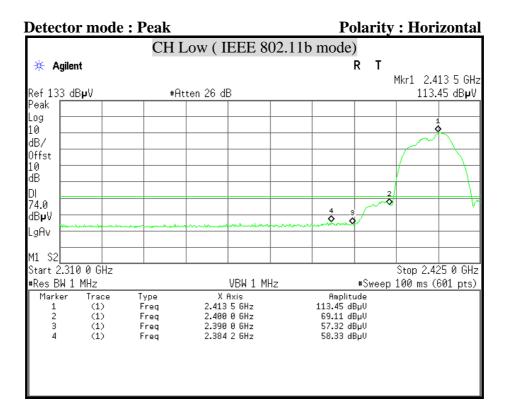
2. Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

3. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.

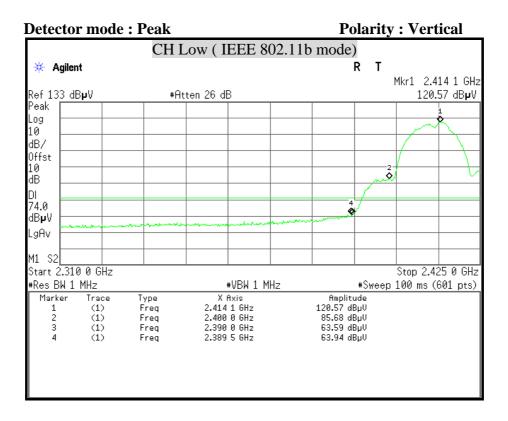
4. Result = Reading + Correction Factor Margin = Result – Limit Remark Peak = Result(PK) – Limit(AV) Remark AVG = Result(AV) – Limit(AV)

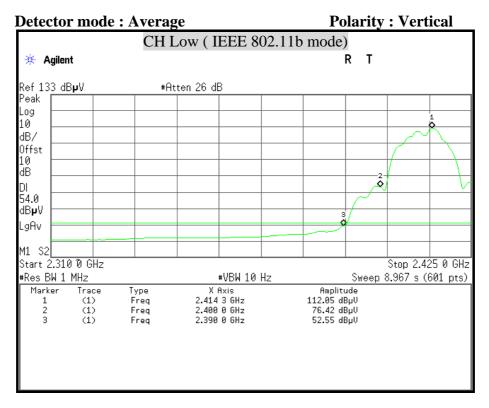


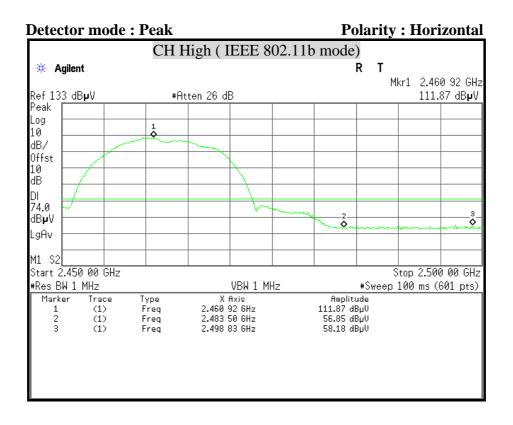
8.8.4 RESTRICTED BAND EDGES

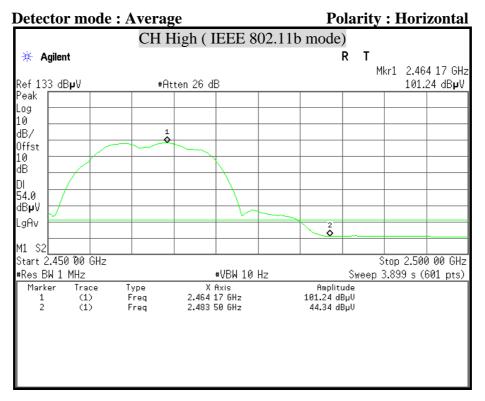


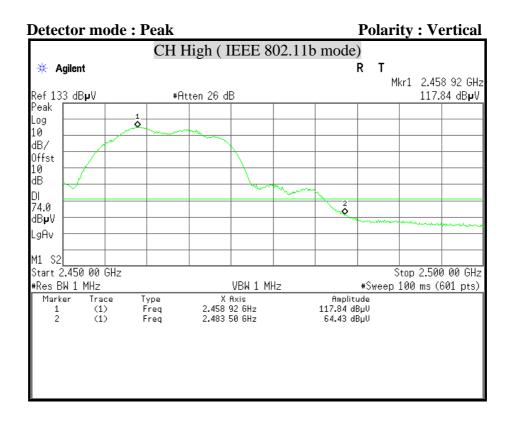
| Detect | tor mode | : Avera | ge | | Polarity | y : Hori | izontal |
|---------------------|---------------|--------------|----------------------------|-----------|----------------------|-----------|----------|
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| Marke | r Trace | Туре | X Axis | f | implitude | | |
| 1 | (1) (1) | Freq | 2.414 6 GHz 2.400 0 GHz | | .60 dBµV .38 dBµV | | |
| 2 3 | (1) | Freq Freq | 2.390 0 GHz | | .за авµV .95 dBµV | | |
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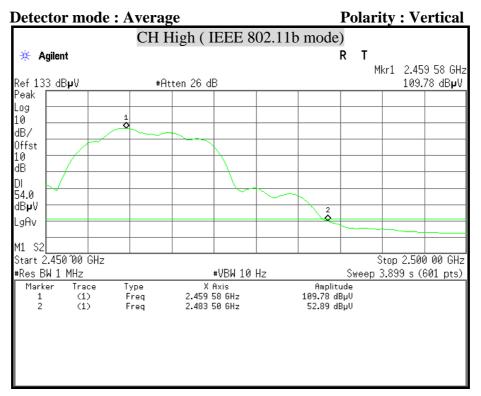


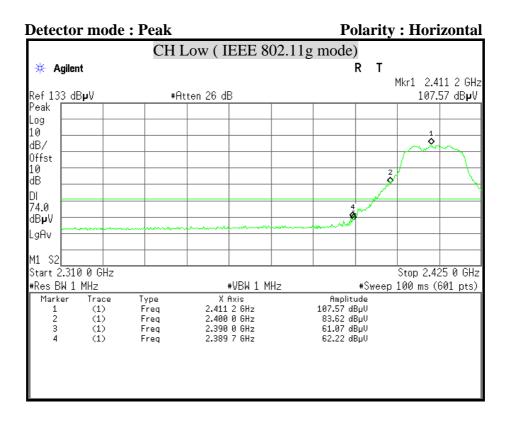


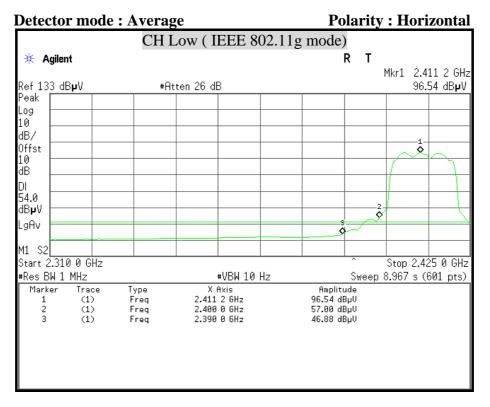


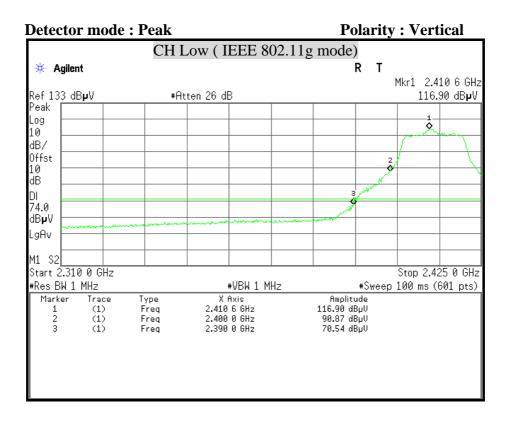


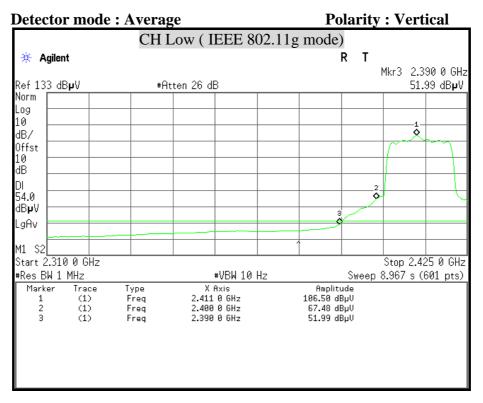


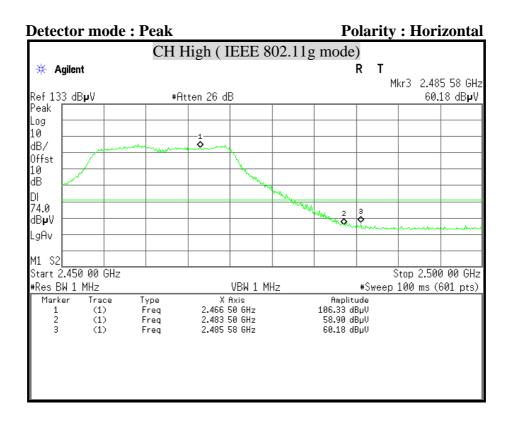


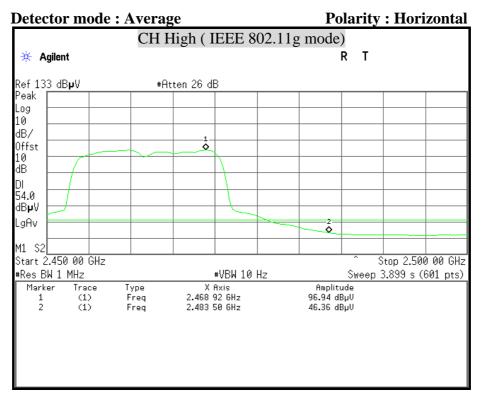


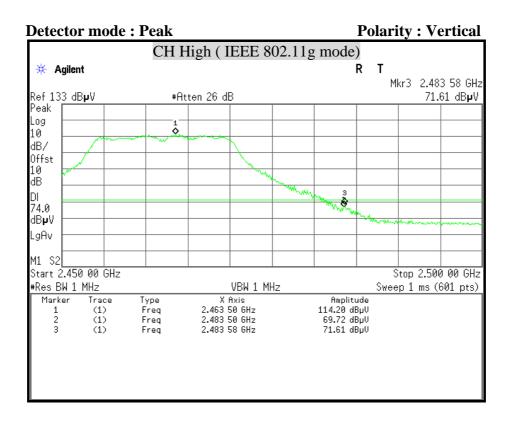


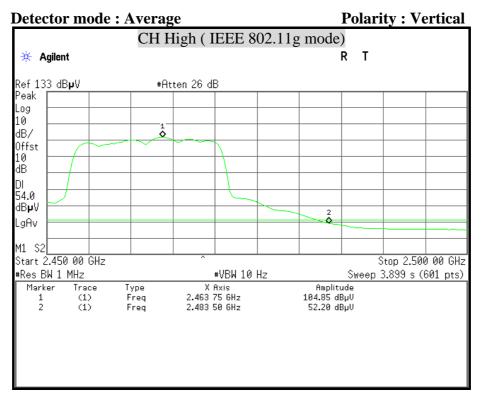


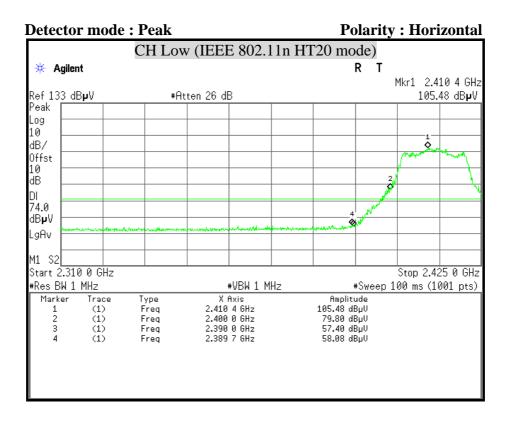


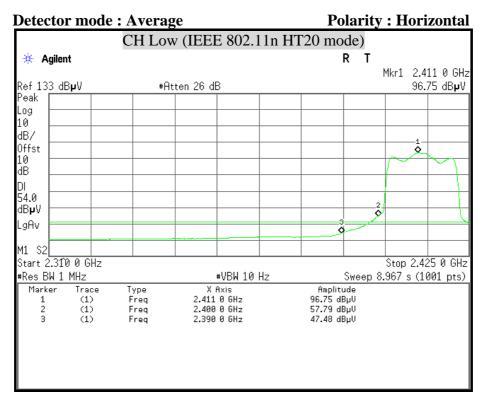


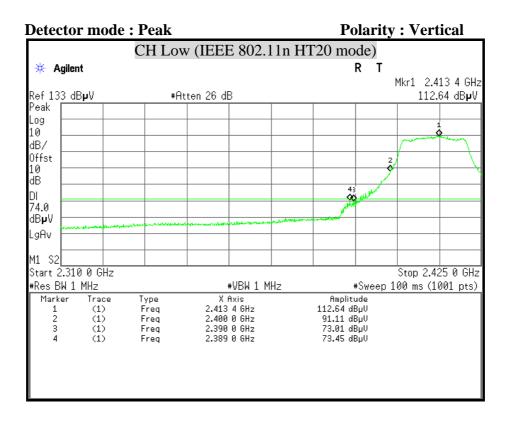


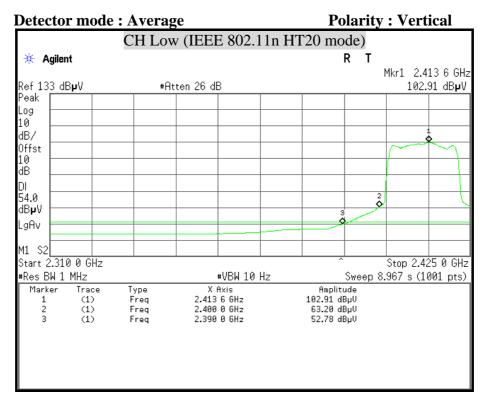


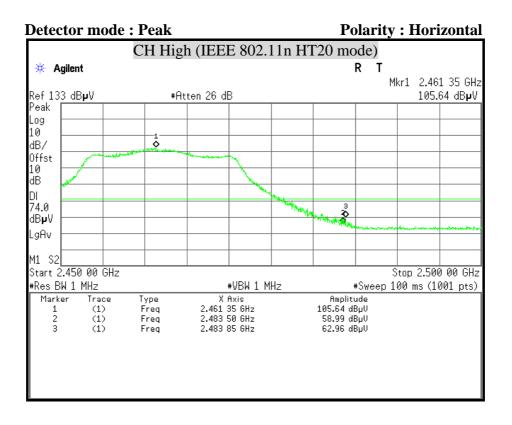


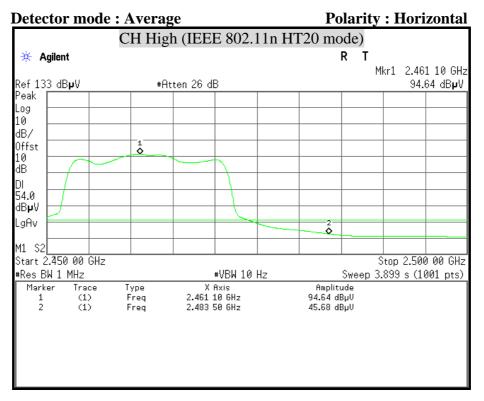


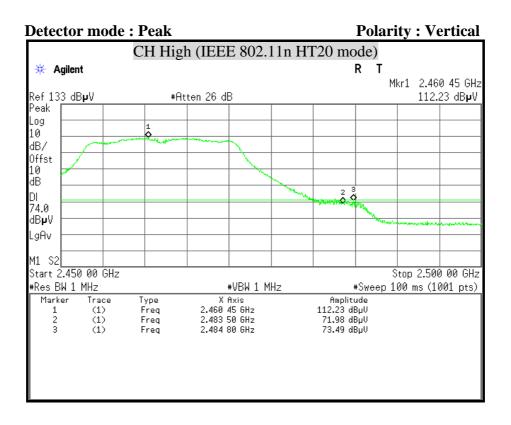


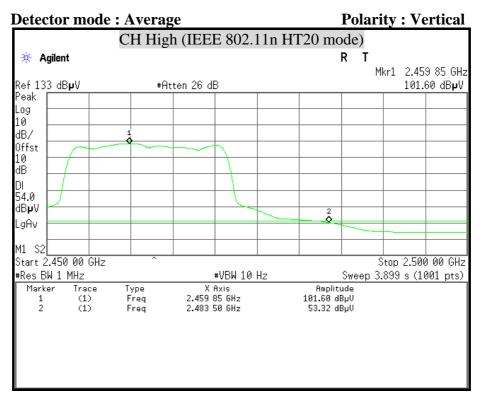


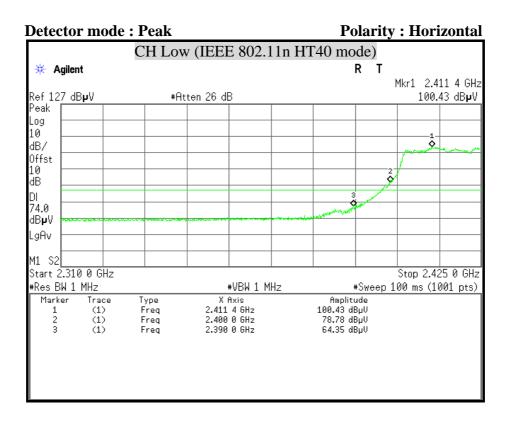


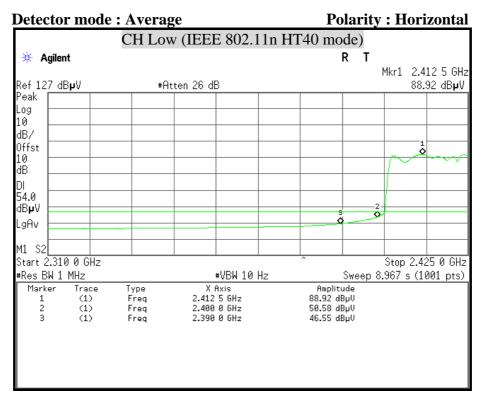


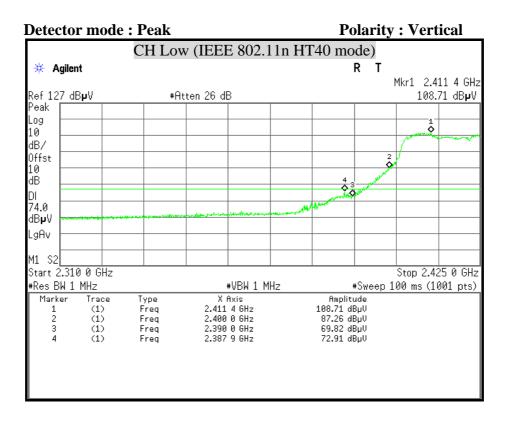


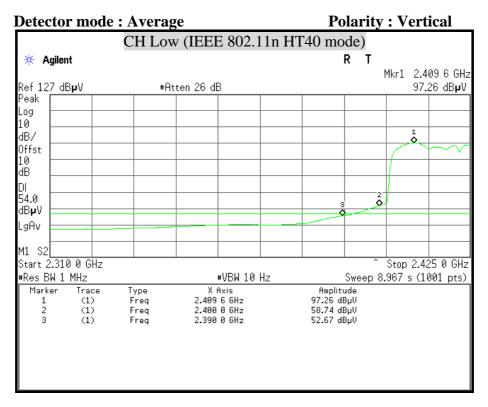


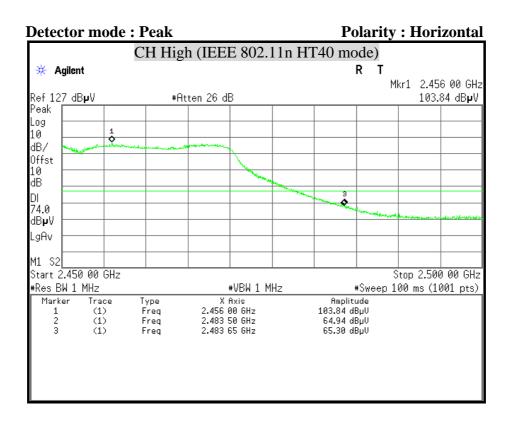


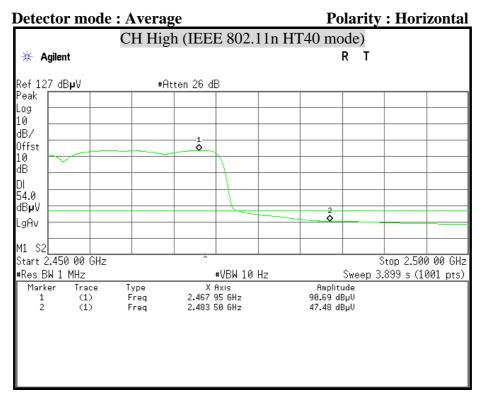


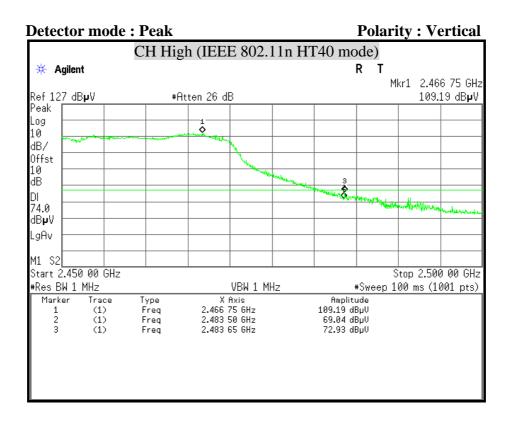


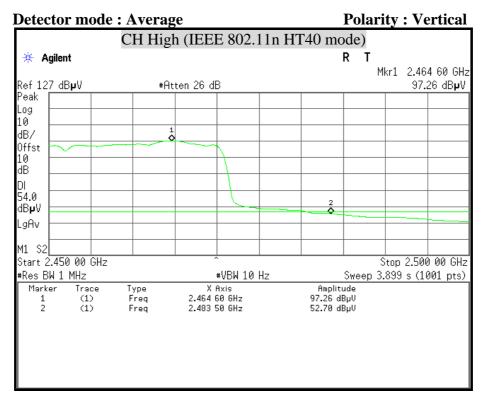












8.9 POWERLINE CONDUCTED EMISSIONS

LIMITS

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

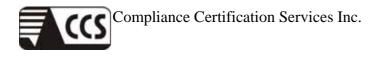
The lower limit applies at the boundary between the frequency ranges.

| Frequency of Emission (MHz) | Conducted limit (dBµv) | | |
|-----------------------------|------------------------|----------|--|
| | Quasi-peak | Average | |
| 0.15 - 0.5 | 66 to 56 | 56 to 46 | |
| 0.5 - 5 | 56 | 46 | |
| 5 - 30 | 60 | 50 | |

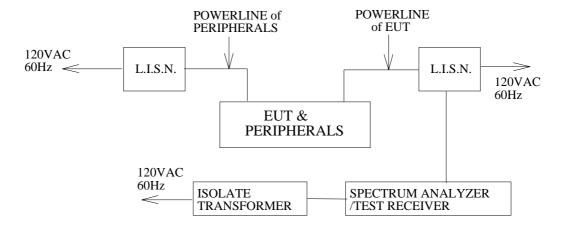
TEST EQUIPMENT

| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|-------------------------|--------------|--------------|---------------|-----------------|
| L.I.S.N | SCHWARZBECK | NSLK 8127 | 8127-465 | 08/13/2009 |
| L.I.S.N | SCHWARZBECK | NSLK 8127 | 8127-473 | 10/12/2009 |
| TEST RECEIVER | R & S | ESHS30 | 838550/003 | 02/02/2010 |
| PULSE LIMIT | R & S | ESH3-Z2 | 100117 | 09/23/2009 |
| N TYPE COAXIAL CABLE | BELDEN | 8268 M17/164 | 003 | 09/13/2009 |

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



TEST SETUP



TEST PROCEDURE

The EUT is placed on a non-conducting table 40 cm from the vertical ground plane and 80cm above the horizontal ground plane. The EUT IS CONFIGURED IN ACCORDANCE WITH ANSI C63.4:2003.

The resolution bandwidth is set to 9 kHz for both quasi-peak detection and average detection measurements.

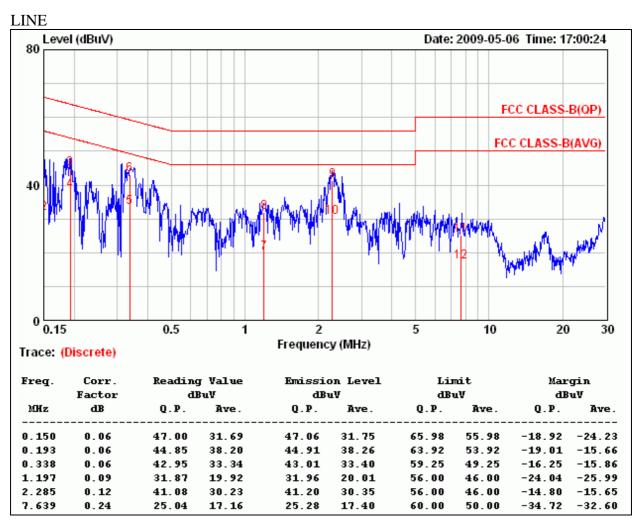
Line conducted data is recorded for both NEUTRAL and LINE.

TEST RESULTS

No non-compliance noted

CONDUCTED RF VOLTAGE MEASUREMENT

| Product Name | RANGEBOOSTER N 650 ACCESS POINT | Test Date | 2009/05/06 |
|--------------|--------------------------------------|----------------------------|-------------|
| Model | DAP-1353 | Test By | Rueyyan Lin |
| Test Mode | Normal operating / Power Adapter (1) | TEMP & Humidity | 23.4°C, 50% |



Remark:

1. Correction Factor = Insertion loss + cable loss

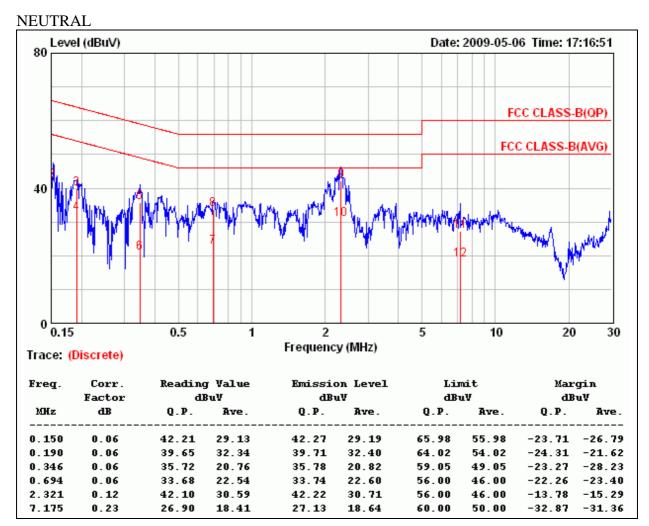


 FCC ID
 : KA2AP1353B1

 Report No.
 : 90407002-RP1

 Page
 202
 of
 213

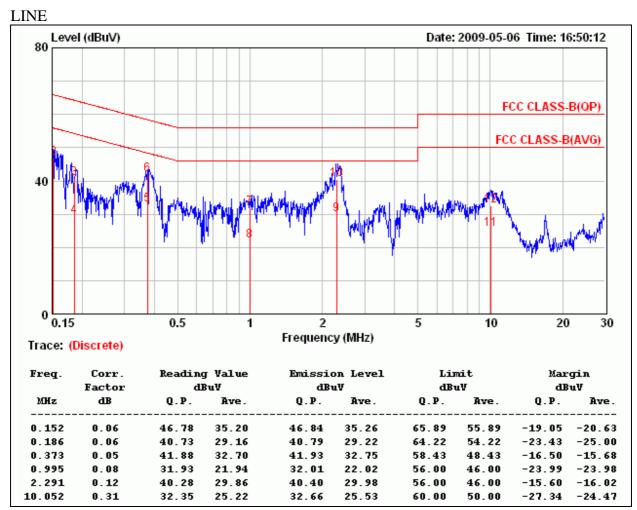
| Product Name | RANGEBOOSTER N 650 ACCESS POINT | Test Date | 2009/05/06 |
|--------------|--------------------------------------|-----------------|-------------|
| Model | DAP-1353 | Test By | Rueyyan Lin |
| Test Mode | Normal operating / Power Adapter (1) | TEMP & Humidity | 23.4°C, 50% |



Remark:

1. Correction Factor = Insertion loss + cable loss

| Product Name | RANGEBOOSTER N 650 ACCESS POINT | Test Date | 2009/05/06 |
|--------------|--------------------------------------|-----------------|-------------|
| Model | DAP-1353 | Test By | Rueyyan Lin |
| Test Mode | Normal operating / Power Adapter (2) | TEMP & Humidity | 23.4°C, 50% |

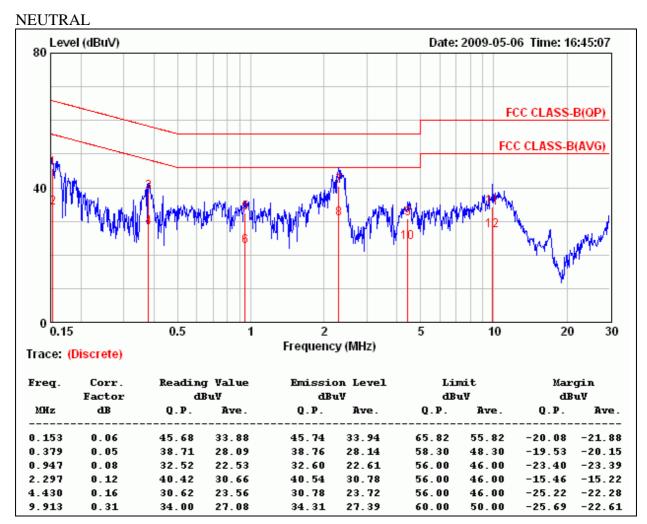


1. Correction Factor = Insertion loss + cable loss



FCC ID : KA2AP1353B1 Report No. : 90407002-RP1 Page ______0f _____13

| Product Name | RANGEBOOSTER N 650 ACCESS POINT | Test Date | 2009/05/06 |
|--------------|--------------------------------------|-----------------|-------------|
| Model | DAP-1353 | Test By | Rueyyan Lin |
| Test Mode | Normal operating / Power Adapter (2) | TEMP & Humidity | 23.4°C, 50% |



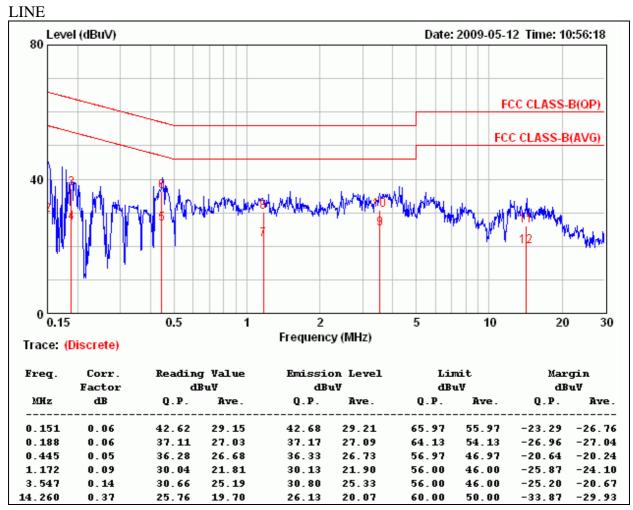
Remark:

- 1. Correction Factor = Insertion loss + cable loss
- 2. Margin value = Emission level Limit value



FCC ID : KA2AP1353B1 Report No. : 90407002-RP1 Page _______ of ______ 213

| Product Name | RANGEBOOSTER N 650 ACCESS POINT | Test Date | 2009/05/12 |
|--------------|--------------------------------------|----------------------------|-------------|
| Model | DAP-1353 | Test By | Rueyyan Lin |
| Test Mode | Normal operating / Power Adapter (3) | TEMP & Humidity | 25.1°C, 57% |



Remark:

1. Correction Factor = Insertion loss + cable loss

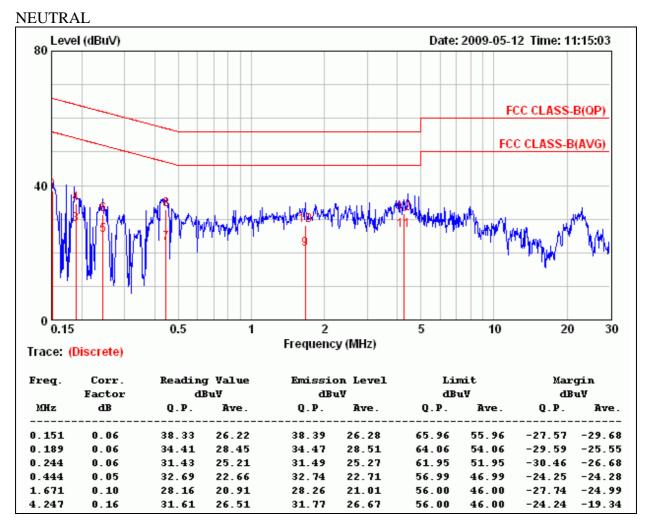


 FCC ID
 : KA2AP1353B1

 Report No.
 : 90407002-RP1

 Page
 206 of 213

| Product Name | RANGEBOOSTER N 650 ACCESS POINT | Test Date | 2009/05/12 |
|--------------|--------------------------------------|----------------------------|-------------|
| Model | DAP-1353 | Test By | Rueyyan Lin |
| Test Mode | Normal operating / Power Adapter (3) | TEMP & Humidity | 25.1°C, 57% |



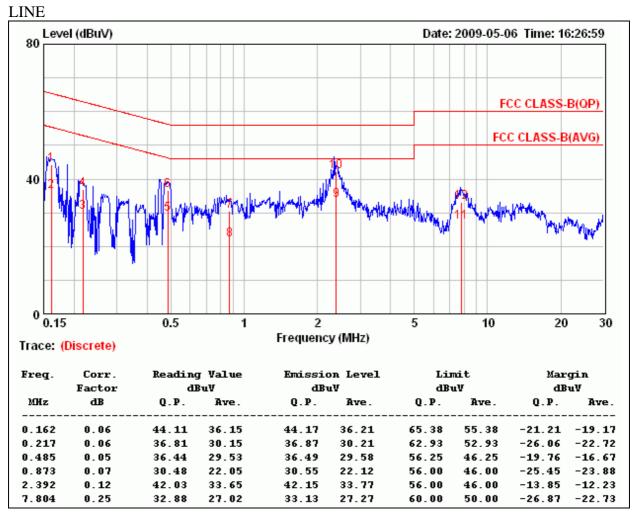
Remark:

1. Correction Factor = Insertion loss + cable loss



FCC ID : KA2AP1353B1 Report No. : 90407002-RP1 Page _______ of ______ 213

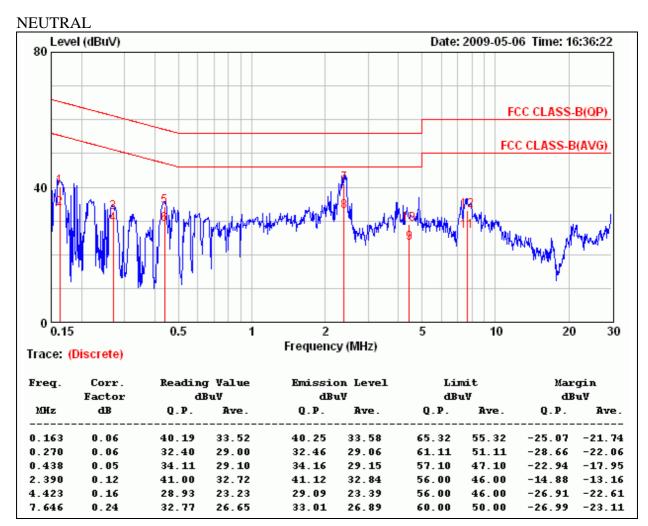
| Product Name | RANGEBOOSTER N 650 ACCESS POINT | Test Date | 2009/05/06 |
|--------------|--------------------------------------|-----------------|-------------|
| Model | DAP-1353 | Test By | Rueyyan Lin |
| Test Mode | Normal operating / Power Adapter (4) | TEMP & Humidity | 23.4°C, 50% |



Remark:

1. Correction Factor = Insertion loss + cable loss

| Product Name | RANGEBOOSTER N 650 ACCESS POINT | Test Date | 2009/05/06 |
|--------------|--------------------------------------|----------------------------|-------------|
| Model | DAP-1353 | Test By | Rueyyan Lin |
| Test Mode | Normal operating / Power Adapter (4) | TEMP & Humidity | 23.4°C, 50% |



- 1. Correction Factor = Insertion loss + cable loss
- 2. Margin value = Emission level Limit value