SPORTON International Inc.

No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, TaoYuan Hsien, Taiwan, R.O.C. Ph: 886-3-327-3456 / FAX: 886-3-327-0973 / www.sporton.com.tw

FCC RADIO TEST REPORT

| Applicant's company | Trinity Security Systems Inc. |
|------------------------|---|
| Applicant Address | Alte Building Higashikanda Chiyoda-ku Tokyo, 101-0031 Japan |
| FCC ID | UOH-AG623T |
| Manufacturer's company | Z-Com, Inc. |
| Manufacturer Address | 7F-2, No. 9. Prosperity RD.I Science-Based Industrial, Park Hsinchu, 300 Taiwan |

| Product Name | 802.11a/g wireless LAN mini PCI adapter |
|-------------------|---|
| Brand Name | Trinity Security Systems (T-SS) |
| Model Name | AG-623 |
| Test Rule Part(s) | 47 CFR FCC Part 15 Subpart C § 15.247 |
| Test Freq. Range | 2400 ~ 2483.5MHz / 5725 ~ 5850MHz |
| Received Date | Oct. 03, 2006 |
| Final Test Date | Oct. 11, 2006 |
| Submission Type | Original Equipment |



Statement

Test result included is only for the 802.11b/g part and 802.11a (5725 \sim 5850MHz) of the product.

The test result in this report refers exclusively to the presented test model / sample.

Without written approval of SPORTON International Inc., the test report shall not be reproduced except in full. The measurements and test results shown in this test report were made in accordance with the procedures and found in compliance with the limit given in ANSI C63.4-2003 and 47 CFR FCC Part 15 Subpart C. The test equipment used to perform the test is calibrated and traceable to NML/ROC.

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History of This Test Report

| Original | Issue | Date: | Oct. | 19, | 2006 |
|----------|-------|-------|------|-----|------|
|----------|-------|-------|------|-----|------|

Report No.: FR6O0303-AB

No additional attachment.

| Additional attachment were issued as follow |
|---|
|---|

| Attachment No. | Issue Date | Description |
|----------------|------------|-------------|
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1. CERTIFICATE OF COMPLIANCE

Product Name :

802.11a/g wireless LAN mini PCI adapter

Brand Name :

Trinity Security Systems (T-SS)

Model Name :

AG-623

Applicant :

Trinity Security Systems Inc.

Test Rule Part(s) :

47 CFR FCC Part 15 Subpart C § 15.247

Sporton International as requested by the applicant to evaluate the EMC performance of the product sample received on Oct. 03, 2006 would like to declare that the tested sample has been evaluated and found to be in compliance with the tested rule parts. The data recorded as well as the test configuration specified is true and accurate for showing the sample's EMC nature.

Prepared By:

Mandy Liang / Specialist

Tested By:

Steven Lu / Engineer

9 18,10,006 Steven lu 18,1006 Z

Wayne Hsu

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2. SUMMARY OF THE TEST RESULT

| | Applied Standard: 47 CFR FCC Part 15 Subpart C | | | | | |
|------|--|-------------------------------------|-------------|----------|--|--|
| Part | Rule Section | Result | Under Limit | | | |
| 4.1 | 15.207 | AC Power Line Conducted Emissions | Complies | 10.79 dB | | |
| 4.2 | 15.247(b)(3) | Maximum Peak Conducted Output Power | Complies | 9.56 dB | | |
| 4.3 | 15.247(e) | Power Spectral Density | Complies | 14.14 dB | | |
| 4.4 | 15.247(a)(2) | 6dB Spectrum Bandwidth | Complies | - | | |
| 4.5 | 15.247(d) | Radiated Emissions | Complies | 0.16 dB | | |
| 4.6 | 15.247(d) | Band Edge Emissions | Complies | 1.08 dB | | |
| 4.7 | 15.203 | Antenna Requirements | Complies | - | | |

| Test Items | Uncertainty | Remark |
|---|------------------------|--------------------------|
| AC Power Line Conducted Emissions | ±2.26dB | Confidence levels of 95% |
| Maximum Peak Conducted Output Power | ±0.776dB | Confidence levels of 95% |
| Power Spectral Density | ±0.506dB | Confidence levels of 95% |
| 6dB Spectrum Bandwidth | ±1.64×10 ⁻⁶ | Confidence levels of 95% |
| Radiated Emissions (9kHz~30MHz) | ±0.754dB | Confidence levels of 95% |
| Radiated Emissions (30MHz~1000MHz) | ±1.89dB | Confidence levels of 95% |
| Radiated / Band Edge Emissions (1GHz~18GHz) | ±1.89dB | Confidence levels of 95% |
| Radiated Emissions (18GHz~40GHz) | ±1.86dB | Confidence levels of 95% |
| Temperature | ± 0.7 ℃ | Confidence levels of 95% |
| Humidity | ±3.2% | Confidence levels of 95% |
| DC / AC Power Source | ±0.04% | Confidence levels of 95% |

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3. GENERAL INFORMATION

3.1. Product Details

| Items | Description |
|--------------------------|--|
| Power Type | From Host systom (Notebook) |
| Modulation | DSSS for IEEE 802.11b; OFDM for IEEE 802.11a/g |
| Data Modulation | DSSS (BPSK / QPSK / CCK); OFDM (BPSK / QPSK / 16QAM / 64QAM) |
| Data Rate (Mbps) | DSSS (1/ 2/ 5.5/11); OFDM (6/9/12/18/24/36/48/54) |
| Frequency Range | 2400 ~ 2483.5MHz / 5725 ~ 5850MHz |
| Channel Number | 11b/g: 11 ; 11a(Band 3): 5 |
| Channel Band Width (99%) | 11b: 15.56 MHz ; 11g: 16.52 MHz ; 11a (Band 3): 16.52 MHz |
| Conducted Output Power | 11b: 16.55 dBm; 11g: 20.44 dBm; 11a (Band 3): 19.56 dBm |
| Carrier Frequencies | Please refer to section 3.4 |
| Antenna | Please refer to section 3.3 |

3.2. Accessories

N/A

3.3. Table for Filed Antenna

For 2.4GHz Band

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|------|--------|---------------|----------------|--------------|------------|
| 1 | Wha Yu | C356-510150-A | Dipole Antenna | Reversed-SMA | 5.0 |

For 5GHz Band

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|------|--------|---------------|----------------|--------------|------------|
| 1 | Wha Yu | C356-510153-A | Dipole Antenna | Reversed-SMA | 5.0 |

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3.4. Table for Carrier Frequencies

Frequency Allocation for 802.11b/g

| Frequency Band | Channel No. | Frequency | Channel No. | Frequency |
|----------------|-------------|-----------|-------------|-----------|
| 2400~2483.5MHz | 1 | 2412 MHz | 7 | 2442 MHz |
| | 2 | 2417 MHz | 8 | 2447 MHz |
| | 3 | 2422 MHz | 9 | 2452 MHz |
| | 4 | 2427 MHz | 10 | 2457 MHz |
| | 5 | 2432 MHz | 11 | 2462 MHz |
| | 6 | 2437 MHz | | |

Frequency Allocation for 802.11a

| Frequency Band | Channel No. | Frequency |
|----------------|-------------|-----------|
| | 149 | 5745 MHz |
| 5725~5850 MHz | 153 | 5765 MHz |
| | 157 | 5785 MHz |
| (Band 3) | 161 | 5805 MHz |
| | 165 | 5825 MHz |

3.5. Table for Test Modes

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

| Test Items | Mode | Data Rate | Channel | Antenna |
|-----------------------------------|-------------|-----------|-------------|---------|
| AC Power Line Conducted Emissions | Normal Link | 54 Mbps | 6 | 1 |
| Max. Peak Conducted Output Power | 11b/BPSK | 1 Mbps | 1/6/11 | NA |
| Power Spectral Density | 11g/BPSK | 6 Mbps | 1/6/11 | NA |
| 6dB Spectrum Bandwidth | 11a/BPSK | 6 Mbps | 149/157/165 | NA |
| Radiated Emissions Below 1GHz | 11g/BPSK | 6 Mbps | 6 | 1 |
| | 11a/BPSK | 6 Mbps | 157 | 1 |
| Radiated Emissions Above 1GHz | 11b/BPSK | 1 Mbps | 1/6/11 | 1 |
| Band Edge Emissions | 11g/BPSK | 6 Mbps | 1/6/11 | 1 |
| | 11a/BPSK | 6 Mbps | 149/157/165 | 1 |
| Band Edge Emissions | 11b/BPSK | 1 Mbps | 1/11 | 1 |
| | 11g/BPSK | 6 Mbps | 1/11 | 1 |
| | 11a/BPSK | 6 Mbps | 149/165 | 1 |

Note: Radiated emissions below 1GHz depending on 802.11abg mode are the same result.

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3.6. Table for Testing Locations

| Test Site No. | Site Category | Location | FCC Reg. No. | IC File No. | VCCI Reg. No |
|---------------|---------------|----------|--------------|-------------|--------------|
| 03CH03-HY | SAC | Hwa Ya | 101377 | IC 4088 | - |
| CO04-HY | Conduction | Hwa Ya | 101377 | IC 4088 | - |
| TH01-HY | OVEN Room | Hwa Ya | - | - | - |

Open Area Test Site (OATS); Semi Anechoic Chamber (SAC); Fully Anechoic Chamber (FAC).

Please refer section 6 for Test Site Address.

3.7. Table for Supporting Units

| Support Unit | Brand | Model | FCC ID |
|--------------|-------|--------|------------|
| Notebook | DELL | D505 | E2K24GBRL |
| Printer | EPSON | LQ-300 | DoC |
| Modem | ACEEX | DM1414 | IFAXDM1414 |

3.8. Table for Parameters of Test Software Setting

During testing, Channel & Power Controlling Software provided by the customer was used to control the operating channel as well as the output power level. The RF output power selection is for the setting of RF output power expected by the customer and is going to be fixed on the firmware of the final end product.

Power Parameters of IEEE 802.11b/g

| Test Software Version | ART | | | | | |
|-----------------------|----------|----------|----------|--|--|--|
| Frequency | 2412 MHz | 2437 MHz | 2462 MHz | | | |
| IEEE 802.11b | 15.5 | 17 | 15.5 | | | |
| IEEE 802.11g | 14.5 | 17 | 14.5 | | | |

Power Parameters of IEEE 802.11a

| Test Software Version | ART | | | | | |
|-----------------------|----------|----------|----|--|--|--|
| Frequency | 5745 MHz | 5825 MHz | | | | |
| IEEE 802.11a | 16 | 16 | 16 | | | |

An executive program, EMITEST.EXE under WIN XP, which generates a complete line of continuously repeating "H "pattern was used as the test software.

The program was executed as follows:

- a. Turn on the power of all equipment.
- b. The NB sends "H" messages to the panel, and the panel displays "H" patterns on the screen.
- c. The NB sends "H" messages to the printer, then the printer prints them on the paper.
- d. The NB sends "H" messages to the modem.
- e. Repeat the steps from b to d.

At the same time, "ART" was executed the test program to control the EUT continuously transmit RF signal.

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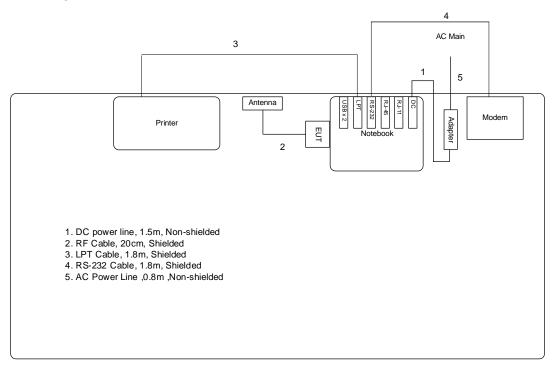




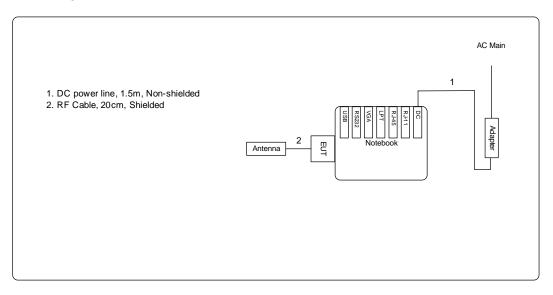
3.9. Test Configurations

3.9.1. Radiation Emissions Test Configuration

Test Configurations: 9kHz~1GHz



Test Configurations: Above 1GHz

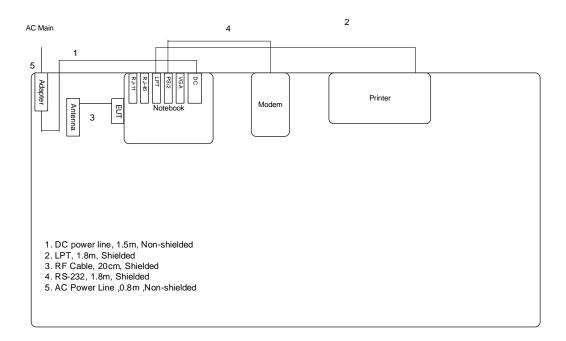


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3.9.2. AC Power Line Conduction Emissions Test Configuration



4. TEST RESULT

4.1. AC Power Line Conducted Emissions Measurement

4.1.1. Limit

For this product which is designed to be connected to the 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 below limits table.

| Frequency (MHz) | QP Limit (dBuV) | AV Limit (dBuV) |
|-----------------|-----------------|-----------------|
| 0.15~0.5 | 66~56 | 56~46 |
| 0.5~5 | 56 | 46 |
| 5~30 | 60 | 50 |

4.1.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the receiver.

| Receiver Parameters | Setting |
|---------------------|----------|
| Attenuation | 10 dB |
| Start Frequency | 0.15 MHz |
| Stop Frequency | 30 MHz |
| IF Bandwidth | 9 KHz |

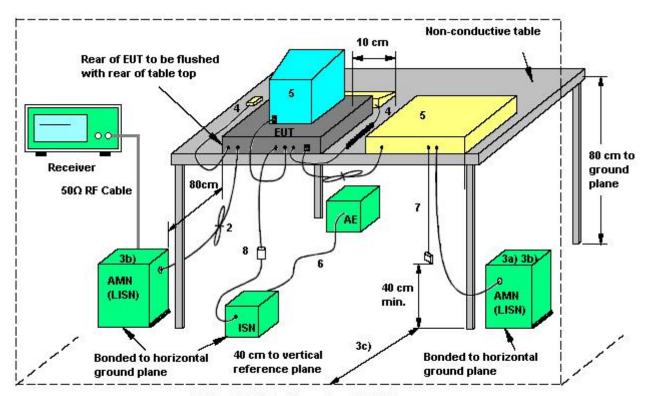
4.1.3. Test Procedures

- Configure the EUT according to ANSI C63.4. The EUT or host of EUT has to be placed 0.4 meter far from the conducting wall of the shielding room and at least 80 centimeters from any other grounded conducting surface.
- 2. Connect EUT or host of EUT to the power mains through a line impedance stabilization network (LISN).
- All the support units are connected to the other LISNs. The LISN should provide 50uH/50ohms coupling impedance.
- 4. The frequency range from 150 KHz to 30 MHz was searched.
- 5. Set the test-receiver system to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 6. The measurement has to be done between each power line and ground at the power terminal.

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4.1.4. Test Setup Layout



AMN = Artificial mains network (LISN)

AE = Associated equipment

EUT = Equipment under test

ISN = Impedance stabilization network

- 1. If cables, which hang closer than 40 cm to the horizontal metal groundplane, cannot be shortened to appropriate length, the excess shall be folded back and forth forming a bundle 30 cm to 40 cm long.
- 2. Excess mains cord shall be bundled in the centre or shortened to appropriate length.
- 3. EUT is connected to one artificial mains network (AMN). All AMNs and ISNs may alternatively be connected to a vertical reference plane or metal wall.
- 4. All other units of a system are powered from a second AMN. A multiple outlet strip can be used for multiple mains cords.
- 5. AMN and ISN are 80 cm from the EUT and at least 80 cm from other units and other metal planes.
- 6. Mains cords and signal cables shall be positioned for their entire lengths, as far as possible, at 40 cm from the vertical reference plane.
- 7. Cables of hand operated devices, such as keyboards, mouses, etc. shall be placed as for normal usage.
- 8. Peripherals shall be placed at a distance of 10 cm from each other and from the controller, except for the monitor which, if this is an acceptable installation practice, shall be placed directly on the top of the controller.
- 9. I/O signal cable intended for external connection.
- 10. The end of the I/O signal cables which are not connected to an AE may be terminated, if required, using correct terminating impedance.
- 11. If used, the current probe shall be placed at 0,1 m from the ISN.

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4.1.5. Test Deviation

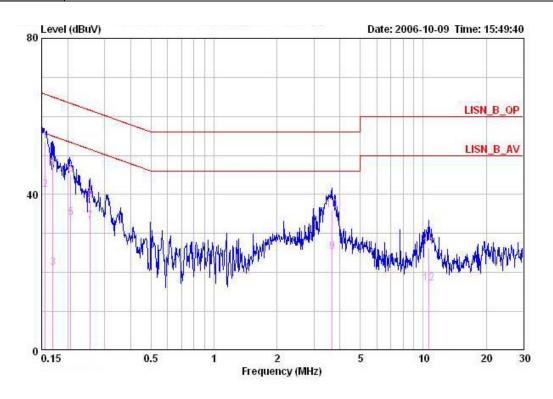
There is no deviation with the original standard.

4.1.6. EUT Operation during Test

The EUT was placed on the test table and programmed in normal function.

4.1.7. Results of AC Power Line Conducted Emissions Measurement

| Temperature | 27.9℃ | Humidity | 54% |
|---------------|---------------------|----------|------|
| Test Engineer | Johnson Chang Phase | | Line |
| Configuration | Normal Link | | |



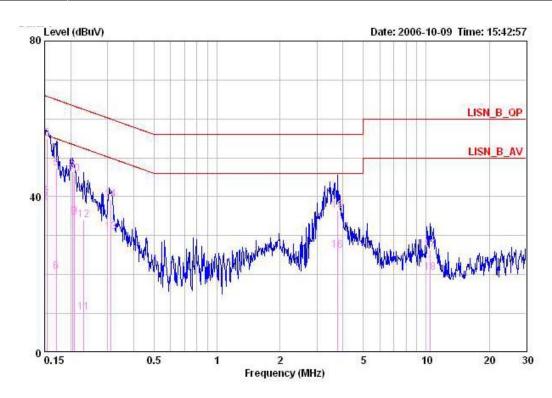
| | Freq | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark |
|------------|---------|-------|---------------|---------------|---------------|----------------|---------------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | dB | |
| 1 @ | 0.15617 | 53.56 | -12.10 | 65.67 | 52.68 | 0.68 | 0.20 | QP |
| 2 | 0.15617 | 41.29 | -14.37 | 55.67 | 40.41 | 0.68 | 0.20 | AVERAGE |
| 3 | 0.16944 | 21.19 | -33.79 | 54.99 | 20.32 | 0.67 | 0.20 | AVERAGE |
| 4 | 0.16944 | 46.97 | -18.01 | 64.99 | 46.10 | 0.67 | 0.20 | QP |
| 5 | 0.20642 | 33.93 | -19.42 | 53.35 | 33.08 | 0.65 | 0.20 | AVERAGE |
| 6 | 0.20642 | 45.08 | -18.27 | 63.35 | 44.23 | 0.65 | 0.20 | QP |
| 7 | 0.25615 | 33.06 | -18.50 | 51.56 | 32.23 | 0.63 | 0.20 | AVERAGE |
| 8 | 0.25615 | 38.35 | -23.21 | 61.56 | 37.52 | 0.63 | 0.20 | QP |
| 9 | 3.681 | 25.33 | -20.67 | 46.00 | 24.70 | 0.33 | 0.30 | AVERAGE |
| 10 | 3.681 | 36.01 | -19.99 | 56.00 | 35.38 | 0.33 | 0.30 | QP |
| 11 | 10.676 | 26.44 | -33.56 | 60.00 | 25.83 | 0.21 | 0.40 | QP |
| 12 | 10.676 | 17.28 | -32.72 | 50.00 | 16.67 | 0.21 | 0.40 | AVERAGE |

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| Temperature | 2 6℃ | Humidity | 54% | | |
|---------------|---------------|----------|---------|--|--|
| Test Engineer | Johnson Chang | Phase | Neutral | | |
| Configuration | Normal Link | | | | |



| | Freq | Level | Over Limit | Limit Line | Read Level | LISN Factor | Cable Loss | Remark |
|-----------------------|---------|-------|---------------|---------------|---------------|----------------|---------------|---------|
| | MHz | dBuV | dB | dBuV | dBuV | dB | dB | * |
| 1 | 0.15000 | 53.11 | -12.89 | 66.00 | 52.22 | 0.69 | 0.20 | QP |
| 2 | 0.15000 | 38.69 | -17.31 | 56.00 | 37.80 | 0.69 | 0.20 | AVERAGE |
| 3 @ | 0.15375 | 55.01 | -10.79 | 65.79 | 54.12 | 0.69 | 0.20 | QP |
| 4 | 0.15375 | 40.64 | -15.16 | 55.79 | 39.75 | 0.69 | 0.20 | AVERAGE |
| 5 | 0.17034 | 47.23 | -17.71 | 64.94 | 46.36 | 0.67 | 0.20 | QP |
| 6 | 0.17034 | 20.73 | -34.21 | 54.94 | 19.86 | 0.67 | 0.20 | AVERAGE |
| 7 | 0.20505 | 46.36 | -17.04 | 63.40 | 45.51 | 0.65 | 0.20 | QP |
| 5 6 7 8 9 | 0.20505 | 34.73 | -18.67 | 53.40 | 33.88 | 0.65 | 0.20 | AVERAGE |
| 9 | 0.20837 | 34.78 | -18.49 | 53.27 | 33.93 | 0.65 | 0.20 | AVERAGE |
| 10 | 0.20837 | 45.69 | -17.58 | 63.27 | 44.84 | 0.65 | 0.20 | QP |
| 11 | 0.23162 | 10.30 | -42.09 | 52.39 | 9.46 | 0.64 | 0.20 | AVERAGE |
| 12 | 0.23162 | 34.11 | -28.28 | 62.39 | 33.27 | 0.64 | 0.20 | QP |
| 13 | 0.31134 | 30.97 | -18.97 | 49.93 | 30.16 | 0.61 | 0.20 | AVERAGE |
| 14 | 0.31134 | 39.14 | -20.80 | 59.93 | 38.33 | 0.61 | 0.20 | QP |
| 15 | 3.759 | 36.35 | -19.65 | 56.00 | 35.72 | 0.33 | 0.30 | QP |
| 16 | 3.759 | 26.05 | -19.95 | 46.00 | 25.42 | 0.33 | 0.30 | AVERAGE |
| 17 | 10.397 | 26.29 | -33.71 | 60.00 | 25.69 | 0.22 | 0.38 | QP |
| 18 | 10.397 | 20.54 | -29.46 | 50.00 | 19.94 | 0.22 | 0.38 | AVERAGE |

Note:

Level = Read Level + LISN Factor + Cable Loss.

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4.2. Maximum Peak Output Power Measurement

4.2.1. Limit

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. The limited has to be reduced by the amount in dB that the gain of the antenna exceed 6dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi. Systems operating in the 5725-5850 MHz band that are used exclusively for fixed, point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted output power.

4.2.2. Measuring Instruments and Setting

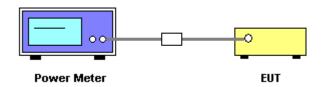
Please refer to section 5 of equipments list in this report. The following table is the setting of the power meter.

| Power Meter Parameter | Setting |
|-----------------------|--------------------|
| Filter No. | Auto |
| Measurement time | 0.135 s ~ 26 s |
| Used Peak Sensor | NRV-Z32 (model 04) |

4.2.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the power meter.
- 2. Turn on the EUT and power meter and then record the peak power value.
- 3. Repeat above procedures on all channels needed to be tested.

4.2.4. Test Setup Layout



4.2.5. Test Deviation

There is no deviation with the original standard.

4.2.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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4.2.7. Test Result of Maximum Peak Output Power

| Temperature | 24 ℃ | Humidity | 56% |
|---------------|-------------|----------------|-------------|
| Test Engineer | Leo Hung | Configurations | 802.11a/b/g |

Configuration IEEE 802.11b

| Channel | Frequency | Conducted Power (dBm) | Max. Limit (dBm) | Result |
|---------|-----------|-----------------------|---------------------|----------|
| 1 | 2412 MHz | 14.11 | 30.00 | Complies |
| 6 | 2437 MHz | 16.55 | 30.00 | Complies |
| 11 | 2462 MHz | 14.62 | 30.00 | Complies |

Configuration IEEE 802.11g

| Channel | Frequency | Conducted Power (dBm) | Max. Limit (dBm) | Result |
|---------|-----------|-----------------------|---------------------|----------|
| 1 | 2412 MHz | 18.12 | 30.00 | Complies |
| 6 | 2437 MHz | 20.44 | 30.00 | Complies |
| 11 | 2462 MHz | 18.66 | 30.00 | Complies |

Configuration IEEE 802.11a

| Channel | Frequency | Conducted Power (dBm) | Max. Limit (dBm) | Result |
|---------|-----------|-----------------------|---------------------|----------|
| 149 | 5745 MHz | 19.34 | 30.00 | Complies |
| 157 | 5785 MHz | 19.56 | 30.00 | Complies |
| 165 | 5825 MHz | 19.38 | 30.00 | Complies |

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4.3. Power Spectral Density Measurement

4.3.1. Limit

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

4.3.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of Spectrum Analyzer.

| Spectrum Parameter | Setting |
|--------------------|----------|
| Attenuation | Auto |
| Span Frequency | 1.5MHz |
| RB | 3 kHz |
| VB | 30 kHz |
| Detector | Peak |
| Trace | Max Hold |
| Sweep Time | 500s |

4.3.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyser.
- 2. Set RBW of spectrum analyzer to 3kHz and VBW to 30kHz. Set Detector to Peak, Trace to Max Hold.
- 3. Mark the frequency with maximum peak power as the center of the display of the spectrum.
- 4. Set the span to 1.5MHz and the sweep time to 500s and record the maximum peak value.

4.3.4. Test Setup Layout



4.3.5. Test Deviation

There is no deviation with the original standard.

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4.3.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

4.3.7. Test Result of Power Spectral Density

| Temperature | 24 °C | Humidity | 56% |
|---------------|--------------|----------------|-------------|
| Test Engineer | Leo Hung | Configurations | 802.11a/b/g |

Configuration IEEE 802.11b

| Channel | Frequency | Power Density (dBm) | Max. Limit (dBm) | Result |
|---------|-----------|------------------------|---------------------|----------|
| 1 | 2412 MHz | -11.27 | 8.00 | Complies |
| 6 | 2437 MHz | -8.92 | 8.00 | Complies |
| 11 | 2462 MHz | -10.62 | 8.00 | Complies |

Configuration IEEE 802.11g

| Channel | Frequency | Power Density (dBm) | Max. Limit (dBm) | Result |
|---------|-----------|------------------------|---------------------|----------|
| 1 | 2412 MHz | -13.11 | 8.00 | Complies |
| 6 | 2437 MHz | -7.93 | 8.00 | Complies |
| 11 | 2462 MHz | -12.32 | 8.00 | Complies |

Configuration IEEE 802.11a

| Channel | Frequency | Power Density (dBm) | Max. Limit (dBm) | Result |
|---------|-----------|------------------------|---------------------|----------|
| 149 | 5745 MHz | -12.05 | 8.00 | Complies |
| 157 | 5785 MHz | -12.57 | 8.00 | Complies |
| 165 | 5825 MHz | -12.38 | 8.00 | Complies |

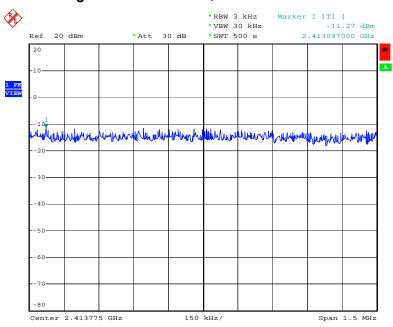
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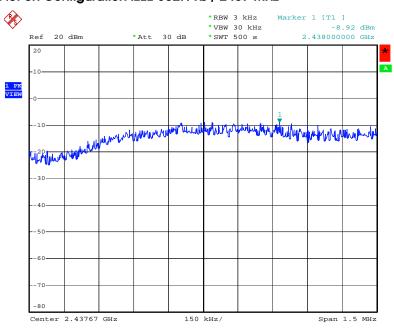


Power Density Plot on Configuration IEEE 802.11b / 2412 MHz



Date: 11.OCT.2006 03:49:47

Power Density Plot on Configuration IEEE 802.11b / 2437 MHz



Date: 11.OCT.2006 03:51:45

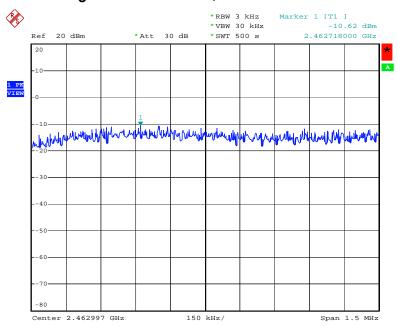
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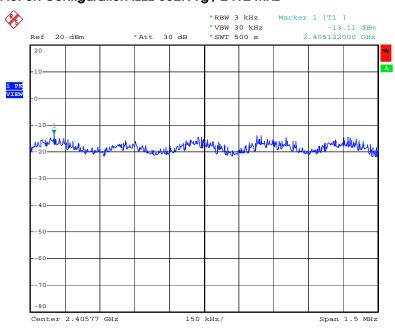


Power Density Plot on Configuration IEEE 802.11b / 2462 MHz



Date: 11.0CT.2006 03:50:34

Power Density Plot on Configuration IEEE 802.11g / 2412 MHz



Date: 11.OCT.2006 03:44:21

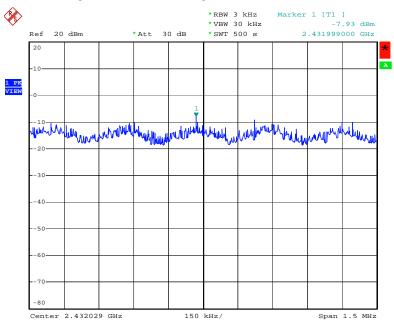
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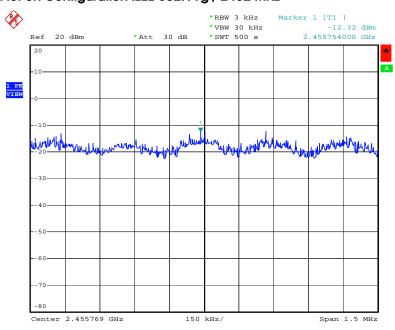


Power Density Plot on Configuration IEEE 802.11g / 2437 MHz



Date: 11.OCT.2006 03:45:42

Power Density Plot on Configuration IEEE 802.11g / 2462 MHz



Date: 11.OCT.2006 03:46:26

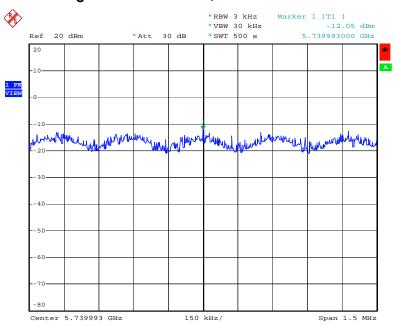
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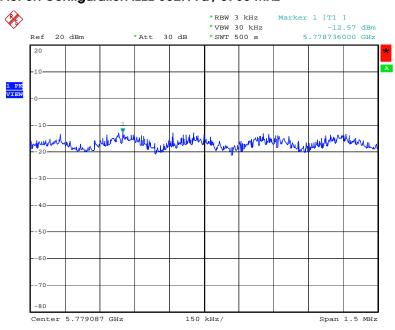


Power Density Plot on Configuration IEEE 802.11a / 5745 MHz



Date: 11.0CT.2006 03:56:39

Power Density Plot on Configuration IEEE 802.11a / 5785 MHz



Date: 11.OCT.2006 03:57:42

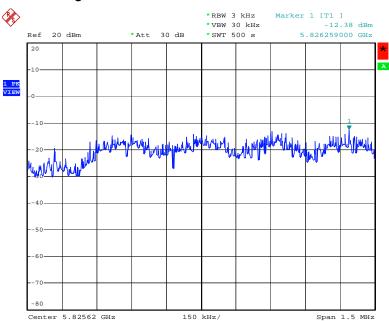
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Power Density Plot on Configuration IEEE 802.11a / 5825 MHz



Date: 11.0CT.2006 03:59:41

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4.4. 6dB Spectrum Bandwidth Measurement

4.4.1. Limit

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

4.4.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the Spectrum Analyzer.

| Spectrum Parameters | Setting |
|---------------------|-----------------|
| Attenuation | Auto |
| Span Frequency | > 6dB Bandwidth |
| RB | 100 kHz |
| VB | 100 kHz |
| Detector | Peak |
| Trace | Max Hold |
| Sweep Time | Auto |

4.4.3. Test Procedures

- 1. The transmitter output (antenna port) was connected to the spectrum analyser in peak hold mode.
- 2. The resolution bandwidth of 100 kHz and the video bandwidth of 100 kHz were used.
- 3. Measured the spectrum width with power higher than 6dB below carrier.

4.4.4. Test Setup Layout



4.4.5. Test Deviation

There is no deviation with the original standard.

4.4.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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4.4.7. Test Result of 6dB Spectrum Bandwidth

| Temperature | 24 ℃ | Humidity | 56% |
|---------------|-------------|----------------|-------------|
| Test Engineer | Leo Hung | Configurations | 802.11a/b/g |

Configuration IEEE 802.11b

| Channel | Frequency | 6dB Bandwidth (MHz) | 99% Occupied Bandwidth (MHz) | Min. Limit (kHz) | Test Result |
|---------|-----------|------------------------|------------------------------------|---------------------|-------------|
| 1 | 2412 MHz | 12.04 | 15.56 | 500 | Complies |
| 6 | 2437 MHz | 12.08 | 15.56 | 500 | Complies |
| 11 | 2462 MHz | 12.04 | 15.52 | 500 | Complies |

Configuration IEEE 802.11g

| Channel | Frequency | 6dB Bandwidth (MHz) 99% Occupied Bandwidth (MHz) | | Min. Limit (kHz) | Test Result | |
|---------|-----------|---|-------|---------------------|-------------|--|
| 1 | 2412 MHz | 16.40 | 16.52 | 500 | Complies | |
| 6 | 2437 MHz | 16.36 | 16.52 | 500 | Complies | |
| 11 | 2462 MHz | 16.40 | 16.52 | 500 | Complies | |

Configuration IEEE 802.11a

| Channel | Frequency | 6dB Bandwidth (MHz) 99% Occupied Bandwidth (MHz) | | Min. Limit (kHz) | Test Result |
|---------|-----------|--|-------|---------------------|-------------|
| 149 | 5745 MHz | 16.40 | 16.52 | 500 | Complies |
| 157 | 5785 MHz | 16.36 | 16.52 | 500 | Complies |
| 165 | 5825 MHz | 16.44 | 16.52 | 500 | Complies |

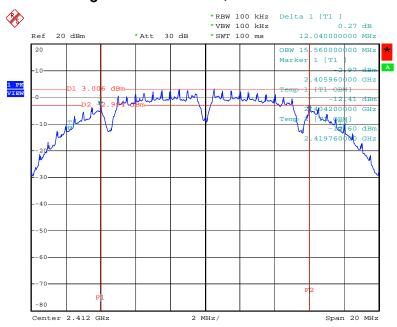
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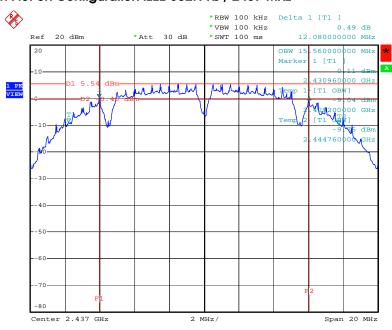


6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2412 MHz



Date: 11.0CT.2006 03:49:22

6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2437 MHz



Date: 11.0CT.2006 03:51:28

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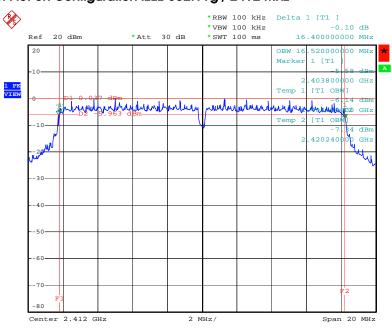


6 dB Bandwidth Plot on Configuration IEEE 802.11b / 2462 MHz



Date: 11.0CT.2006 03:50:19

6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2412 MHz



Date: 11.0CT.2006 03:43:56

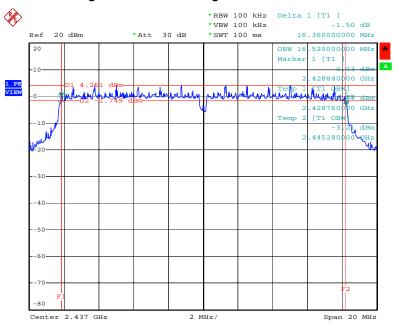
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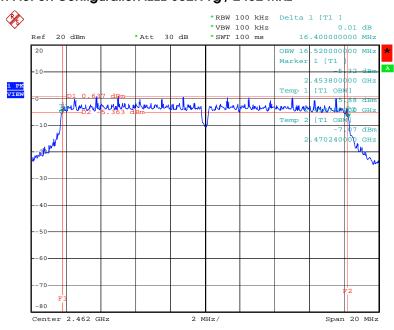


6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2437 MHz



Date: 11.0CT.2006 03:45:25

6 dB Bandwidth Plot on Configuration IEEE 802.11g / 2462 MHz



Date: 11.0CT.2006 03:46:10

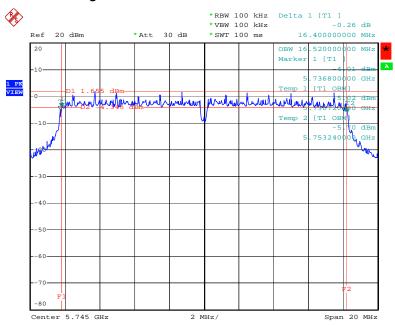
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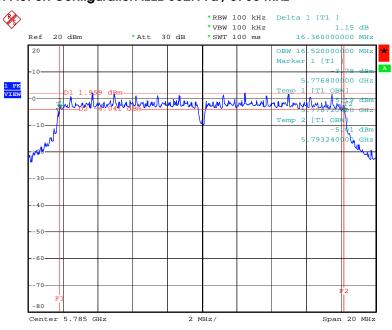


6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5745 MHz



Date: 11.OCT.2006 03:56:14

6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5785 MHz



Date: 11.OCT.2006 03:57:17

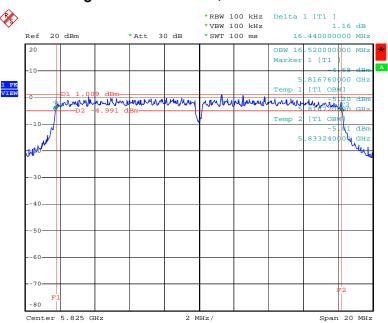
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6 dB Bandwidth Plot on Configuration IEEE 802.11a / 5825 MHz



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4.5. Radiated Emissions Measurement

4.5.1. Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Frequencies | Field Strength | Measurement Distance | | |
|-------------|--------------------|----------------------|--|--|
| (MHz) | (micorvolts/meter) | (meters) | | |
| 0.009~0.490 | 2400/F(KHz) | 300 | | |
| 0.490~1.705 | 24000/F(KHz) | 30 | | |
| 1.705~30.0 | 30 | 30 | | |
| 30~88 | 100 | 3 | | |
| 88~216 | 150 | 3 | | |
| 216~960 | 200 | 3 | | |
| Above 960 | 500 | 3 | | |

4.5.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of spectrum analyzer and receiver.

| Spectrum Parameter | Setting |
|---|--|
| Attenuation | Auto |
| Start Frequency | 1000 MHz |
| Stop Frequency | 10th carrier harmonic |
| RB / VB (Emission in restricted band) | 1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average |
| RB / VB (Emission in non-restricted band) | 100KHz / 100KHz for peak |

| Receiver Parameter | Setting | | | | |
|------------------------|----------------------------------|--|--|--|--|
| Attenuation | Auto | | | | |
| Start ~ Stop Frequency | 9kHz~150kHz / RB 200Hz for QP | | | | |
| Start ~ Stop Frequency | 150kHz~30MHz / RB 9kHz for QP | | | | |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP | | | | |

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4.5.3. Test Procedures

Configure the EUT according to ANSI C63.4. The EUT was placed on the top of the turntable 0.8
meter above ground. The phase center of the receiving antenna mounted on the top of a
height-variable antenna tower was placed 3 meters far away from the turntable.

- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz VBW and RBW for peak reading. Then 1MHz RBW and 10Hz VBW for average reading in spectrum analyzer.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum value.
- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

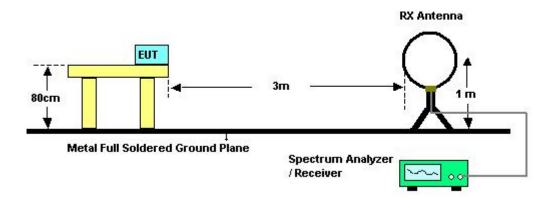
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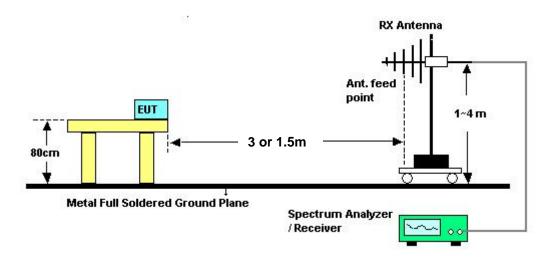


4.5.4. Test Setup Layout

For radiated emissions below 30MHz



For radiated emissions above 30MHz



Above 10 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1.5m.

Distance extrapolation factor = 20 log (specific distance [3m] / test distance [1.5m]) (dB);

Limit line = specific limits (dBuV) + distance extrapolation factor [6 dB].

4.5.5. Test Deviation

There is no deviation with the original standard.

4.5.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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4.5.7. Results of Radiated Emissions (9kHz~30MHz)

| Temperature | 23℃ | Humidity | 54% |
|---------------|---------|----------------|--------------|
| Test Engineer | Beck Wu | Configurations | 802.11g CH 6 |

| Freq. | Level | Over Limit | Limit Line | Remark |
|-------|--------|------------|------------|----------|
| (MHz) | (dBuV) | (dB) | (dBuV) | |
| - | - | - | - | See Note |

Note:

The amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB);

 $\label{limit} \mbox{Limit line} = \mbox{specific limits (dBuV)} + \mbox{distance extrapolation factor}.$

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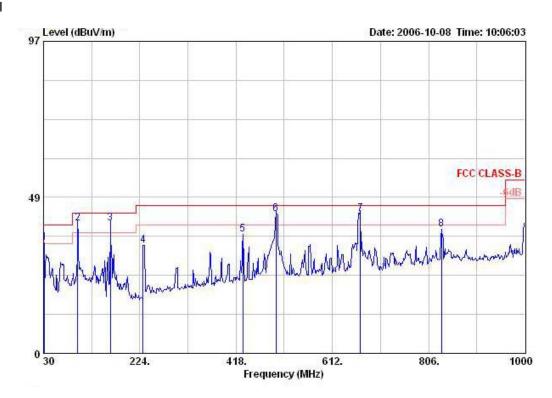




4.5.8. Results of Radiated Emissions (30MHz~1GHz)

| Temperature | 23℃ | Humidity | 54% |
|---------------|---------|----------------|--------------|
| Test Engineer | Beck Wu | Configurations | 802.11g CH 6 |

Vertical



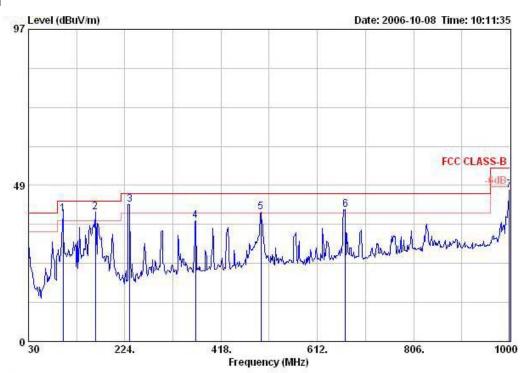
| | | | 0ver | Limit | Read | Antenna | Cable | Preamp | | Ant | Table |
|-----|---------|--------|--------|--------|-------|---------|-------|--------|--------|-----|-------|
| | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark | Pos | Pos |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | cm | deg |
| 1! | 31.940 | 34.49 | -5.51 | 40.00 | 41.70 | 18.96 | 0.32 | 26.49 | Peak | 400 | 0 |
| 2 ! | 98.870 | 40.38 | -3.12 | 43.50 | 54.97 | 11.01 | 0.36 | 25.96 | QP | 100 | 20 |
| 3 @ | 164.830 | 40.52 | -2.98 | 43.50 | 55.11 | 10.35 | 0.72 | 25.66 | QP | 100 | 0 |
| 4 | 230.790 | 33.57 | -12.43 | 46.00 | 46.54 | 11.39 | 1.08 | 25.44 | Peak | 400 | 0 |
| 5 | 431.580 | 36.88 | -9.12 | 46.00 | 44.24 | 16.94 | 1.49 | 25.79 | Peak | 400 | 0 |
| 6 @ | 498.510 | 43.40 | -2.60 | 46.00 | 50.16 | 17.78 | 1.80 | 26.33 | QP | 100 | 160 |
| 7 @ | 668.260 | 43.30 | -2.70 | 46.00 | 47.62 | 19.64 | 2.14 | 26.10 | QP | 100 | 120 |
| 8 | 832.190 | 38.50 | -7.50 | 46.00 | 39.77 | 21.15 | 2.52 | 24.94 | Peak | 400 | 0 |

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Horizontal



| | | Freq | Level | Over Limit | Limit Line | | Antenna Factor | *************************************** | Preamp Factor | Remark | Ant Pos | Table Pos |
|---|----|---------|--------|---------------|---------------|-------|-------------------|---|------------------|--------|------------|--------------|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | cm. | deg |
| 1 | ļ. | 99.840 | 39.55 | -3.95 | 43.50 | 53.98 | 11.20 | 0.30 | 25.93 | QP | 400 | 12 |
| 2 | ! | 164.830 | 40.27 | -3.23 | 43.50 | 54.86 | 10.35 | 0.72 | 25.66 | Peak | 100 | 0 |
| 3 | ! | 233.700 | 42.50 | -3.50 | 46.00 | 55.18 | 11.66 | 1.09 | 25.43 | Peak | 100 | 0 |
| 4 | | 366.590 | 37.59 | -8.41 | 46.00 | 45.76 | 15.70 | 1.31 | 25.17 | Peak | 100 | 0 |
| 5 | ! | 498.510 | 40.17 | -5.83 | 46.00 | 46.93 | 17.78 | 1.80 | 26.33 | Peak | 100 | 0 |
| 6 | 1 | 668.260 | 41.02 | -4.98 | 46.00 | 45.34 | 19.64 | 2.14 | 26.10 | Peak | 100 | 0 |
| 7 | | 999.030 | 46.92 | -7.08 | 54.00 | 46.74 | 22.29 | 3.11 | 25.23 | Peak | 100 | 0 |

Note:

The amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = $20 \log Emission$ level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

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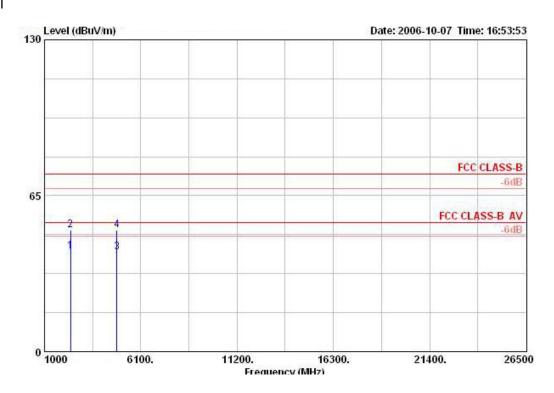
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4.5.9. Results for Radiated Emissions (1GHz~10th Harmonic)

| Temperature | 23℃ | Humidity | 54% |
|---------------|---------|----------------|--------------|
| Test Engineer | Beck Wu | Configurations | 802.11b CH 1 |

Vertical



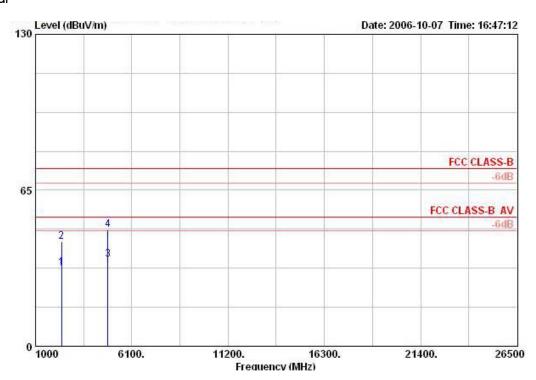
| | | | Over | Limit | Readi | Antenna | Cable | Preamp | | Ant | Table |
|-----|----------|--------|--------|--------|-------|---------|-------|--------|---------|-----|-------|
| | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark | Pos | Pos |
| | MHz | dBuV/m | dB | dBuV/m | dBu∀ | dB/m | dB | dB | - | cm | deg |
| 1 @ | 2382.596 | 41.73 | -12.27 | 54.00 | 42.01 | 28.09 | 5.14 | 33.50 | AVERAGE | 100 | 263 |
| 2 | 2382.596 | 50.70 | -23.30 | 74.00 | 50.98 | 28.09 | 5.14 | 33.50 | PEAK | 100 | 263 |
| 3 | 4823.972 | 41.54 | -12.46 | 54.00 | 34.37 | 33.22 | 7.18 | 33.24 | AVERAGE | 100 | 102 |
| 4 | 4823.972 | 50.72 | -23.28 | 74.00 | 43.55 | 33.22 | 7.18 | 33.24 | Peak | 100 | 102 |

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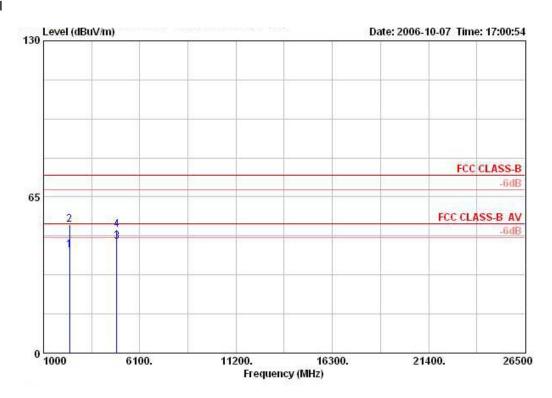


| | | | Over | Limit | Read | Antenna | Cable | Preamp | | Ant | Table |
|---|----------|-----------------------|--------------|--------|-------|---------|--------|--------|---------|-----|-------|
| | Freq | Freq Level Limit Line | Level Factor | | Loss | Factor | Remark | Pos | Pos | | |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | - | cm | deg |
| 1 | 2382.264 | 32.41 | -21.59 | 54.00 | 32.69 | 28.09 | 5.14 | 33.50 | AVERAGE | 117 | 96 |
| 2 | 2382.264 | 43.47 | -30.53 | 74.00 | 43.75 | 28.09 | 5.14 | 33.50 | PEAK | 117 | 96 |
| 3 | 4823.960 | 36.08 | -17.92 | 54.00 | 28.91 | 33.22 | 7.18 | 33.24 | AVERAGE | 117 | 331 |
| 4 | 4823.960 | 48.42 | -25.58 | 74.00 | 41.25 | 33.22 | 7.18 | 33.24 | PEAK | 117 | 331 |





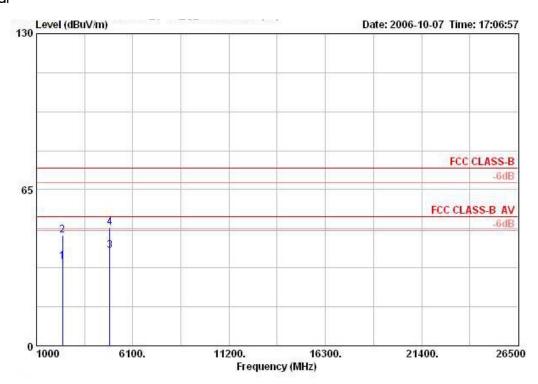
| Temperature | 23 ℃ | Humidity | 54% |
|---------------|-------------|----------------|--------------|
| Test Engineer | Beck Wu | Configurations | 802.11b CH 6 |



| | | | Over | Limit | Read | Antenna | Cable | Preamp | | Ant | Table |
|---|----------|--------|--------|--------|-------|---------|-------|--------|---------|-----|-------|
| | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark | Pos | Pos |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | cm | deg |
| 1 | 2376.020 | 42.85 | -11.15 | 54.00 | 43.13 | 28.09 | 5.14 | 33.50 | AVERAGE | 100 | 262 |
| 2 | 2376.020 | 53.39 | -20.61 | 74.00 | 53.67 | 28.09 | 5.14 | 33.50 | PEAK | 100 | 262 |
| 3 | 4873.948 | 46.44 | -7.56 | 54.00 | 39.13 | 33.33 | 7.20 | 33.23 | AVERAGE | 100 | 255 |
| 4 | 4873.948 | 51.36 | -22.64 | 74.00 | 44.05 | 33.33 | 7.20 | 33.23 | PEAK | 100 | 255 |





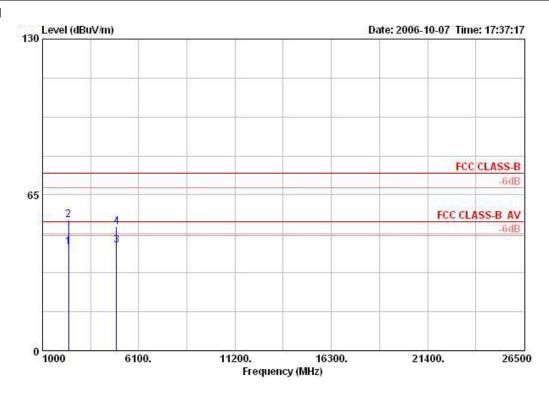


| | Freq | Level | Over Limit | | | Antenna Factor | | | | Ant Pos | Table Pos |
|---|----------|--------|---------------|--------|-------|-------------------|------|-------|---------|------------|--------------|
| | MHz | dBuV/m | dB | dBuV/m | dBu∀ | dB/m | dB | dB | 1 | | deg |
| 1 | 2376.020 | 35.19 | -18.81 | 54.00 | 35.47 | 28.09 | 5.14 | 33.50 | AVERAGE | 100 | 156 |
| 2 | 2376.020 | 46.10 | -27.90 | 74.00 | 46.38 | 28.09 | 5.14 | 33.50 | PEAK | 100 | 156 |
| 3 | 4874.000 | 39.84 | -14.16 | 54.00 | 32.53 | 33.33 | 7.20 | 33.23 | AVERAGE | 144 | 139 |
| 4 | 4874.000 | 49.27 | -24.73 | 74.00 | 41.96 | 33.33 | 7.20 | 33.23 | PEAK | 144 | 139 |





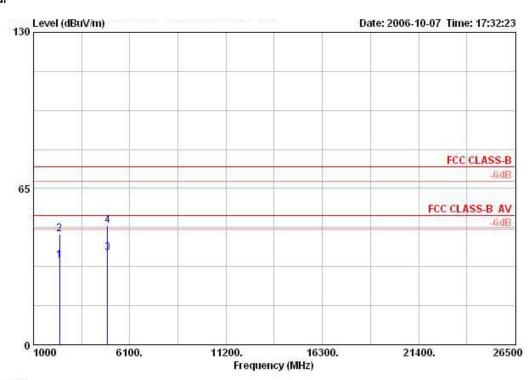
| Temperature | 23℃ | Humidity | 54% |
|---------------|---------|----------------|---------------|
| Test Engineer | Beck Wu | Configurations | 802.11b CH 11 |



| | Fred | Level | Over | | | Antenna Factor | | | | Ant Pos | Table Pos |
|---|----------|--------|--------|------------|-------|-------------------|------|-------|---------|------------|--------------|
| | IICY | DUT | | 11-10-00-0 | Descr | ructor | | | ACHEL A | 2.88 | 200 |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | Ø 9 | cm | deg |
| 1 | 2375.840 | 43.34 | -10.66 | 54.00 | 43.62 | 28.09 | 5.14 | 33.50 | AVERAGE | 100 | 261 |
| 2 | 2375.840 | 54.41 | -19.59 | 74.00 | 54.69 | 28.09 | 5.14 | 33.50 | PEAK | 100 | 261 |
| 3 | 4923.980 | 44.03 | -9.97 | 54.00 | 36.58 | 33.45 | 7.22 | 33.22 | AVERAGE | 100 | 256 |
| 4 | 4923.980 | 51.68 | -22.32 | 74.00 | 44.23 | 33.45 | 7.22 | 33.22 | PEAK | 100 | 256 |





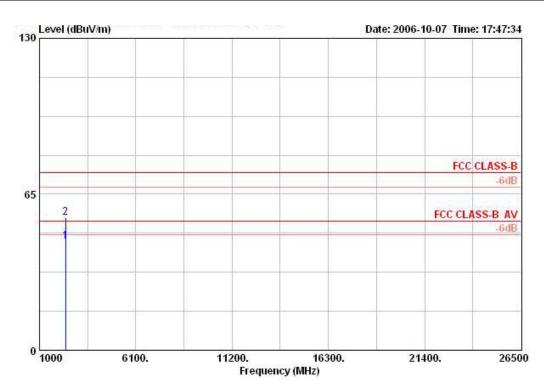


| | Freq | Level | | | | Antenna Factor | | | | Ant Pos | Table Pos |
|---|----------|--------|--------|--------|-------|-------------------|------|-------|---------|------------|--------------|
| | МНг | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | - | | deg |
| 1 | 2375.800 | 34.90 | -19.10 | 54.00 | 35.18 | 28.09 | 5.14 | 33.50 | AVERAGE | 133 | 194 |
| 2 | 2375.800 | 46.15 | -27.85 | 74.00 | 46.43 | 28.09 | 5.14 | 33.50 | PEAK | 133 | 194 |
| 3 | 4923.980 | 38.35 | -15.65 | 54.00 | 30.90 | 33.45 | 7.22 | 33.22 | AVERAGE | 103 | 195 |
| 4 | 4923.980 | 49.44 | -24.56 | 74.00 | 41.99 | 33.45 | 7.22 | 33.22 | PEAK | 103 | 195 |





| Temperature | 23℃ | Humidity | 54% |
|---------------|---------|----------------|--------------|
| Test Engineer | Beck Wu | Configurations | 802.11g CH 1 |

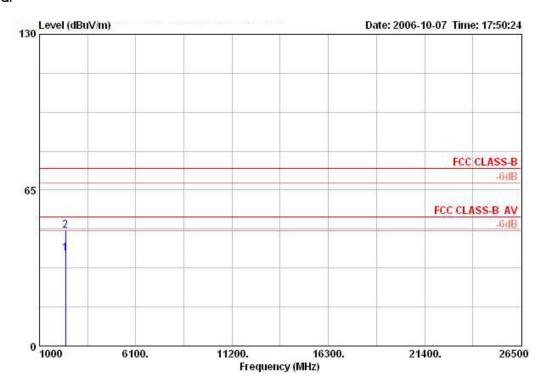


| | Freq | Level | Over Limit | | | Antenna Factor | | | | Ant Pos | Table Pos |
|---|----------|--------|---------------|--------|-------|-------------------|------|-------|---------|------------|--------------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | can | deg |
| 1 | 2375.610 | 45.51 | -8.49 | 54.00 | 45.79 | 28.09 | 5.14 | 33.50 | AVERAGE | 100 | 279 |
| 2 | 2375.610 | 55.20 | -18.80 | 74.00 | 55.48 | 28.09 | 5.14 | 33.50 | PEAK | 100 | 279 |



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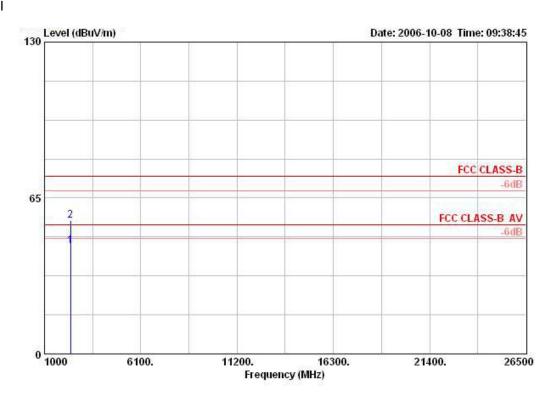


| | Freq | Level | | | | Antenna Factor | | | | Ant Pos | Table Pos |
|---|----------|--------|--------|--------|-------|-------------------|------|-------|---------|------------|--------------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dВ | dB | - | cm | deg |
| 1 | 2375.610 | 38.46 | -15.54 | 54.00 | 38.74 | 28.09 | 5.14 | 33.50 | AVERAGE | 101 | 157 |
| 2 | 2375.610 | 48.20 | -25.80 | 74.00 | 48.48 | 28.09 | 5.14 | 33.50 | PEAK | 101 | 157 |





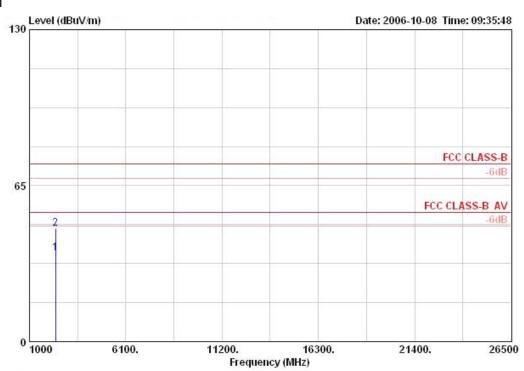
| Temperature | 23℃ | Humidity | 54% |
|---------------|---------|----------------|--------------|
| Test Engineer | Beck Wu | Configurations | 802.11g CH 6 |



| | Freq | Level | Over Limit | | | Antenna Factor | | | Remark | Ant Pos | Table Pos |
|---|----------|--------|---------------|--------|-------|-------------------|------|-------|---------|------------|--------------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dВ | dB | P. 17. | - cm | deg |
| 1 | 2376.050 | 45.09 | -8.91 | 54.00 | 45.37 | 28.09 | 5.14 | 33.50 | AVERAGE | 100 | 261 |
| 2 | 2377.510 | 55.53 | -18.47 | 74.00 | 55.80 | 28.09 | 5.14 | 33.50 | PEAK | 100 | 261 |





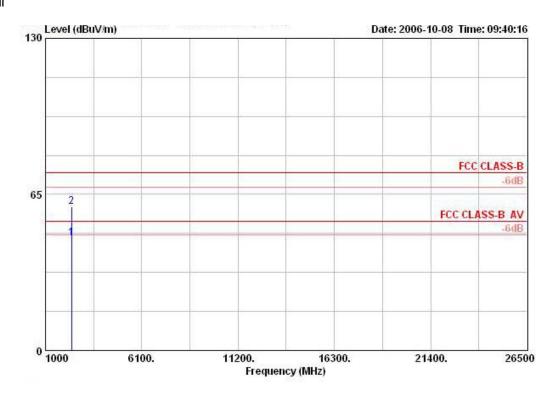


| | Freq | Level | | | | Antenna Factor | | | | Ant Pos | Table Pos |
|---|----------|--------|--------|--------|-------|-------------------|------|-------|----------------|------------|--------------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | S l | | deg |
| 1 | 2374.910 | 36.74 | -17.26 | 54.00 | 37.02 | 28.09 | 5.14 | 33.50 | AVERAGE | 100 | 158 |
| 2 | 2374.910 | 47.24 | -26.76 | 74.00 | 47.52 | 28.09 | 5.14 | 33.50 | PEAK | 100 | 158 |



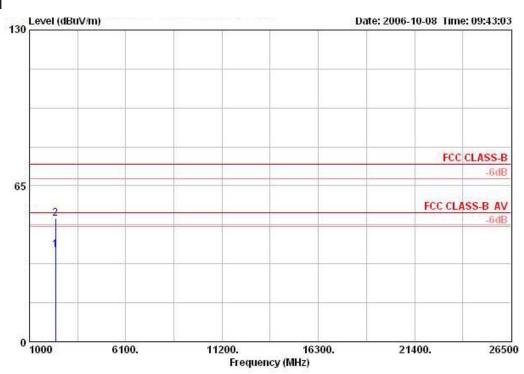


| Temperature | 23℃ | Humidity | 54% |
|---------------|---------|----------------|---------------|
| Test Engineer | Beck Wu | Configurations | 802.11g CH 11 |



| | Freq | Level | | | | Antenna Factor | | | | Ant Pos | Table Pos |
|---|----------|------------|--------|--------|-------|-------------------|------|-------|---------|------------|--------------|
| | Mtz | MHz dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | - | cm | deg |
| 1 | 2375.920 | 46.93 | -7.07 | 54.00 | 47.21 | 28.09 | 5.14 | 33.50 | AVERAGE | 100 | 261 |
| 2 | 2376.350 | 59.76 | -14.24 | 74.00 | 60.04 | 28.09 | 5.14 | 33.50 | PEAK | 100 | 261 |





| | Freq | Level | | | | | Cable Preamp Loss Factor Remark | | | Ant Pos | Table Pos |
|---|----------|--------|--------|-----------|-------|----------|------------------------------------|-------|---------|------------|--------------|
| | MHz | dBuV/m | dB | dB dBuV/m | dBuV | V dB/m d | dB | dB dB | | cm | deg |
| 1 | 2375.820 | 38.20 | -15.80 | 54.00 | 38.48 | 28.09 | 5.14 | 33.50 | AVERAGE | 100 | 158 |
| 2 | 2376.050 | 51.36 | -22.64 | 74.00 | 51.63 | 28.09 | 5.14 | 33.50 | PEAK | 100 | 158 |

Note:

The amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = $20 \log Emission$ level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

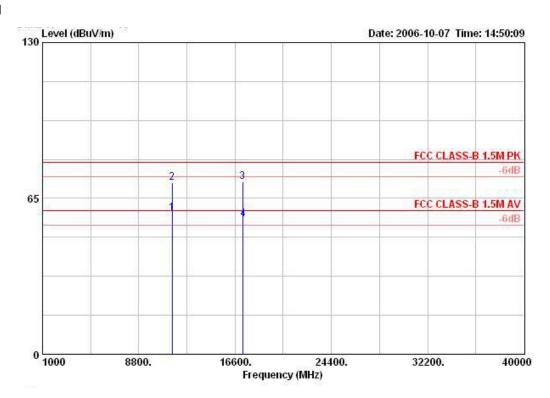
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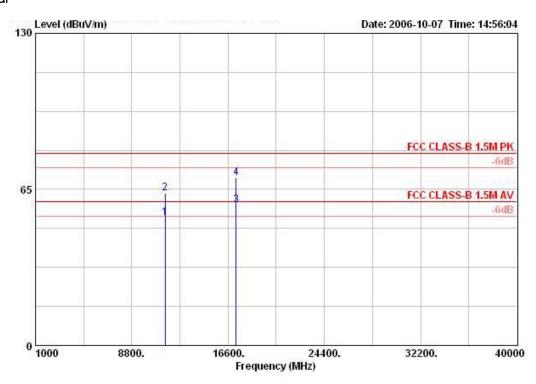
| Temperature | 23℃ | Humidity | 54% |
|---------------|---------|----------------|----------------|
| Test Engineer | Beck Wu | Configurations | 802.11a CH 149 |



| | | | Over | Limit | Read | Antenna | Cable | Preamp | | Ant | Table |
|-----|-----------|--------|-----------|--------|-------|---------|-------|----------|---------------------|-----|-------|
| | Freq | Level | vel Limit | Line | Level | Factor | Loss | Factor F | Remark | Pos | Pos |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dВ | dB | ē ⁵ — 27 | | deg |
| 1 @ | 11490.740 | 58.94 | -1.06 | 60.00 | 41.94 | 39.20 | 10.90 | 33.10 | AVERAGE | 111 | 242 |
| 2 | 11490.740 | 71.57 | -8.43 | 80.00 | 54.57 | 39.20 | 10.90 | 33.10 | PEAK | 111 | 242 |
| 3 | 17230.180 | 71.90 | -8.10 | 80.00 | 49.06 | 40.93 | 14.31 | 32.40 | PEAK | 105 | 174 |
| 4 ! | 17233.160 | 56.29 | -3.71 | 60.00 | 33.45 | 40.93 | 14.31 | 32.40 | AVERAGE | 105 | 174 |





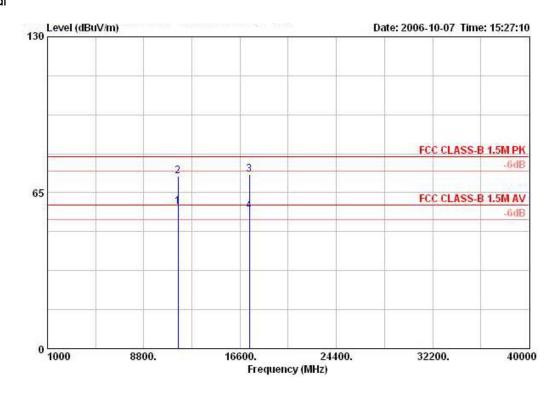


| | | | 0ver | Limit | Read | Antenna | Cable | Preamp | | Ant | Table |
|-----|-----------|--------|--------|--------|-------|---------|-------|--------|---------|-----|-------|
| | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark | Pos | Pos |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | - | cm | deg |
| 1 | 11489.500 | 53.26 | -6.74 | 60.00 | 36.26 | 39.20 | 10.90 | 33.10 | AVERAGE | 115 | 254 |
| 2 | 11489.500 | 63.47 | -16.53 | 80.00 | 46.47 | 39.20 | 10.90 | 33.10 | PEAK | 115 | 254 |
| 3 @ | 17235.820 | 58.48 | -1.52 | 60.00 | 35.64 | 40.93 | 14.31 | 32.40 | AVERAGE | 123 | 230 |
| 4 | 17235.820 | 69.85 | -10.15 | 80.00 | 47.01 | 40.93 | 14.31 | 32.40 | PEAK | 123 | 230 |





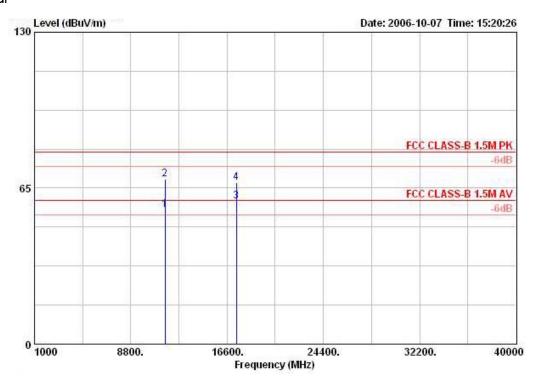
| Temperature | 23℃ | Humidity | 54% |
|---------------|---------|----------------|----------------|
| Test Engineer | Beck Wu | Configurations | 802.11a CH 157 |



| | | | Over | Limit | Read | Antenna | Cable | Preamp | | Ant | Table |
|-----|-----------|--------|----------|--------|-------|---------|-------|--------|---------|-----|-------|
| | Freq | Level | el Limit | Line | Level | Factor | Loss | Factor | Remark | Pos | Pos |
| | MHz | dBuV/m | dB | dBuV/m | dBu∀ | dB/m | dB | dB | | cm | deg |
| 1 @ | 11570.920 | 59.26 | -0.74 | 60.00 | 42.25 | 39.21 | 10.91 | 33.12 | AVERAGE | 104 | 240 |
| 2 | 11570.920 | 72.08 | -7.92 | 80.00 | 55.07 | 39.21 | 10.91 | 33.12 | PEAK | 104 | 240 |
| 3 | 17350.360 | 72.55 | -7.45 | 80.00 | 49.17 | 41.44 | 14.35 | 32.40 | PEAK | 104 | 321 |
| 4 @ | 17353.820 | 57.54 | -2.46 | 60.00 | 34.15 | 41.44 | 14.35 | 32.40 | AVERAGE | 104 | 321 |





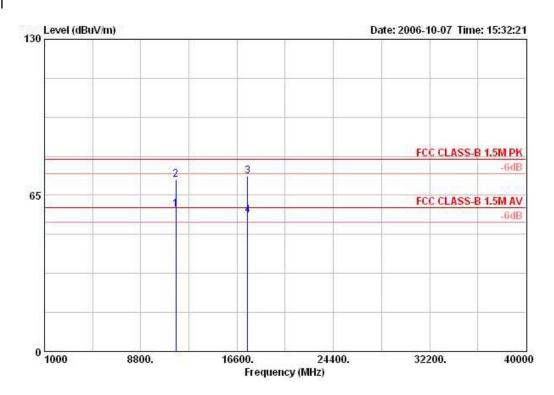


| | | | Over | Limit | Read | Antenna | Cable | Preamp | | Ant | Table |
|-----|-----------|--------|----------|--------|-------|---------|-------|--------|-------------|-----|-------|
| | Freq | Level | el Limit | Line | Level | Factor | Loss | Factor | Remark | Pos | Pos |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dВ | dB | | cm | deg |
| 1! | 11570.120 | 56.05 | -3.95 | 60.00 | 39.04 | 39.21 | 10.91 | 33.12 | AVERAGE | 109 | 340 |
| 2 | 11570.120 | 68.65 | -11.35 | 80.00 | 51.64 | 39.21 | 10.91 | 33.12 | PEAK | 109 | 340 |
| 3 @ | 17353.720 | 59.39 | -0.61 | 60.00 | 36.00 | 41.44 | 14.35 | 32.40 | AVERAGE | 112 | 248 |
| 4 | 17353.720 | 67.47 | -12.53 | 80.00 | 44.08 | 41.44 | 14.35 | 32.40 | PEAK | 112 | 248 |



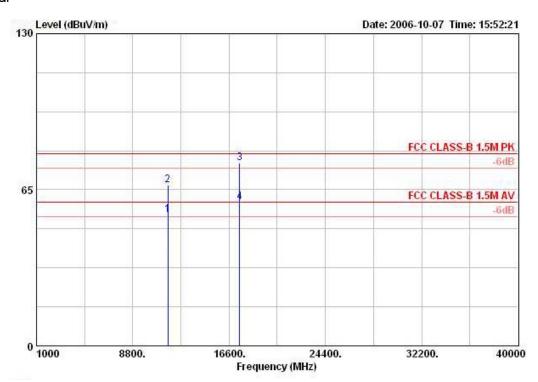


| Temperature | 23℃ | Humidity | 54% |
|---------------|---------|----------------|----------------|
| Test Engineer | Beck Wu | Configurations | 802.11a CH 165 |



| | | | Over | Limit | Read | Antenna | Cable | Preamp | | Ant | Table |
|------------|-----------|--------|-------|--------|-------|---------|-------|--------|---------|-----|-------|
| | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark | Pos | Pos |
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | 1 | | deg |
| 1 @ | 11650.240 | 59.12 | -0.88 | 60.00 | 42.11 | 39.23 | 10.92 | 33.13 | AVERAGE | 104 | 240 |
| 2 | 11650.240 | 71.39 | -8.61 | 80.00 | 54.38 | 39.23 | 10.92 | 33.13 | PEAK | 104 | 240 |
| 3 | 17470.000 | 73.00 | -7.00 | 80.00 | 49.07 | 41.95 | 14.38 | 32.40 | PEAK | 105 | 319 |
| 4 1 | 17473.200 | 56.59 | -3.41 | 60.00 | 32.65 | 41.95 | 14.39 | 32.40 | AVERAGE | 105 | 319 |





| | Freq | Level | Over Limit | | | intenna Factor | | | Remark | Ant Pos | Table Pos |
|-----|-----------|--------|---------------|--------|-------|-------------------|-------|-------|---------|------------|--------------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | N- | | deg |
| L ! | 11648.640 | 54.66 | -5.34 | 60.00 | 37.65 | 39.23 | 10.92 | 33.13 | AVERAGE | 124 | 241 |
| 2 | 11648.640 | 66.89 | -13.11 | 80.00 | 49.88 | 39.23 | 10.92 | 33.13 | PEAK | 124 | 241 |
| 3 ! | 17470.220 | 76.13 | -3.87 | 80.00 | 52.20 | 41.95 | 14.38 | 32.40 | PEAK | 124 | 192 |
| 4 @ | 17473.160 | 59.84 | -0.16 | 60.00 | 35.90 | 41.95 | 14.39 | 32.40 | AVERAGE | 124 | 192 |

Note:

The amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

Emission level (dBuV/m) = $20 \log Emission$ level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

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4.6. Band Edge Emissions Measurement

4.6.1. Limit

20dBc in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

| Frequencies | Field Strength | Measurement Distance |
|-------------|--------------------|----------------------|
| (MHz) | (micorvolts/meter) | (meters) |
| 0.009~0.490 | 2400/F(KHz) | 300 |
| 0.490~1.705 | 24000/F(KHz) | 30 |
| 1.705~30.0 | 30 | 30 |
| 30~88 | 100 | 3 |
| 88~216 | 150 | 3 |
| 216~960 | 200 | 3 |
| Above 960 | 500 | 3 |

4.6.2. Measuring Instruments and Setting

Please refer to section 5 of equipments list in this report. The following table is the setting of the spectrum analyzer.

| Spectrum Parameter | Setting |
|---|--|
| Attenuation | Auto |
| Span Frequency | 100 MHz |
| RB / VB (Emission in restricted band) | 1MHz / 1MHz for Peak, 1 MHz / 10Hz for Average |
| RB / VB (Emission in non-restricted band) | 100 KHz /100 KHz for Peak |

4.6.3. Test Procedures

- 1. The test procedure is the same as section 4.5.3, only the frequency range investigated is limited to 100MHz around bandedges.
- 2. In case the emission is fail due to the used RB/VB is too wide, marker-delta method of FCC Public Notice DA00-705 will be followed.

4.6.4. Test Setup Layout

This test setup layout is the same as that shown in section 4.5.4.

4.6.5. Test Deviation

There is no deviation with the original standard.

4.6.6. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

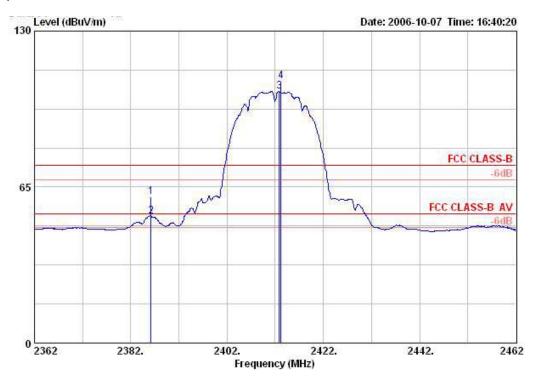
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4.6.7. Test Result of Band Edge and Fundamental Emissions

| Temperature | 23℃ | Humidity | 56% |
|---------------|---------|----------------|------------------|
| Test Engineer | Beck Wu | Configurations | 802.11b CH 1, 11 |

Channel 1



| | Freq | Level | Over Limit | Limit Line | | Antenna Factor | | | Remark | Pos | Table Pos |
|-----|----------|--------|---------------|---------------|-------|-------------------|------|------|---------|-----|--------------|
| | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | | cm | deg |
| 1 | 2386.200 | 60.94 | -13.06 | 74.00 | 27.67 | 28.13 | 5.14 | 0.00 | PEAK | 100 | 262 |
| 2 @ | 2386.200 | 52.92 | -1.08 | 54.00 | 19.65 | 28.13 | 5.14 | 0.00 | AVERAGE | 100 | 262 |
| 3 @ | 2412.800 | 104.75 | | | 71.39 | 28.18 | 5.19 | 0.00 | AVERAGE | 100 | 262 |
| 4 @ | 2413.200 | 109.11 | | | 75.74 | 28.18 | 5.19 | 0.00 | PEAK | 100 | 262 |

Note: Items 1 & 2 are Band- Edge.

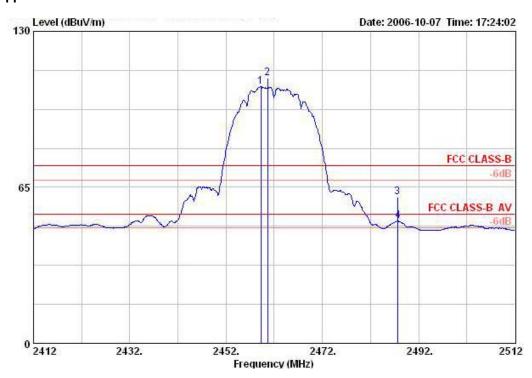
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Channel 11



| | | | 0ver | Limit | Read | Antenna | Cable | Preamp | | Ant | Table |
|-----|----------|--------|--------|--------|-------|---------|-------|--------|---------|-----|-------|
| | Freq | Level | Limit | Line | Level | Factor | Loss | Factor | Remark | Pos | Pos |
| | Mtz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | - | cm | deg |
| 1 @ | 2459.200 | 106.95 | | | 73.40 | 28.31 | 5.24 | 0.00 | AVERAGE | 100 | 214 |
| 2 @ | 2460.600 | 110.54 | | | 76.99 | 28.31 | 5.24 | 0.00 | PEAK | 100 | 214 |
| 3 | 2487.600 | 60.92 | -13.08 | 74.00 | 27.23 | 28.40 | 5.29 | 0.00 | PEAK | 100 | 214 |
| 4 ! | 2487.700 | 50.95 | -3.05 | 54.00 | 17.26 | 28.40 | 5.29 | 0.00 | AVERAGE | 100 | 214 |

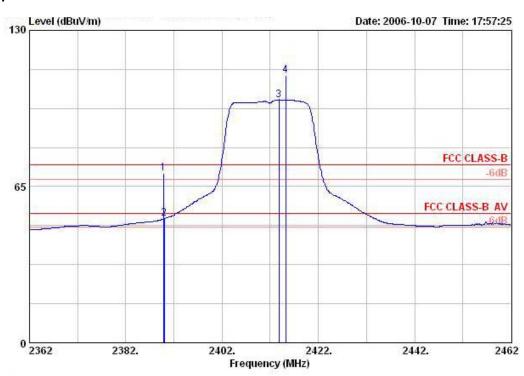
Note: Items 3 & 4 are Band- Edge.





| Temperature | 23℃ | Humidity | 56% |
|---------------|---------|----------------|------------------|
| Test Engineer | Beck Wu | Configurations | 802.11g CH 1, 11 |

Channel 1

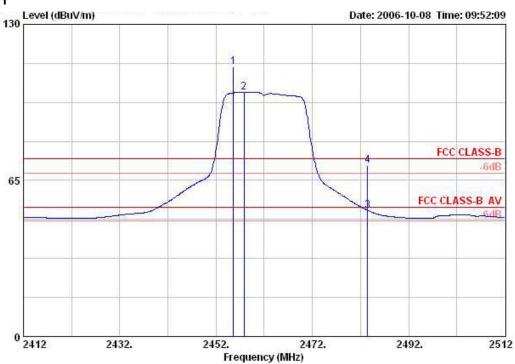


| | Freq | Level | Over Limit | | | Antenna Factor | | | | Ant Pos | Table Pos |
|-----|----------|--------|---------------|--------|-------|-------------------|------|------|---------|------------|--------------|
| | MHz | dBuV/m | dB | dBuV/m | dBu∀ | dB/m | dB | dB | | cm | deg |
| 1 | 2389.800 | 70.32 | -3.68 | 74.00 | 37.01 | 28.13 | 5.19 | 0.00 | PEAK | 100 | 216 |
| 2 @ | 2390.000 | 51.64 | -2.36 | 54.00 | 18.32 | 28.13 | 5.19 | 0.00 | AVERAGE | 100 | 216 |
| 3 @ | 2413.800 | 101.08 | | | 67.72 | 28.18 | 5.19 | 0.00 | AVERAGE | 100 | 216 |
| 4 @ | 2415.200 | 111.29 | | | 77.93 | 28.18 | 5.19 | 0.00 | PEAK | 100 | 216 |

Note: Items 1 & 2 are Band- Edge.







| | | Freq | Level | Over Limit | | 0.00793787 | Antenna Factor | | | | Ant Pos | Table Pos |
|---|---|----------|--------|---------------|--------|------------|-------------------|------|------|---------|------------|--------------|
| | | MHz | dBuV/m | dB | dBuV/m | dBuV | dB/m | dB | dB | - | cm | deg |
| 1 | @ | 2455.600 | 112.46 | | | 78.91 | 28.31 | 5.24 | 0.00 | PEAK | 100 | 279 |
| 2 | @ | 2457.800 | 101.65 | | | 68.10 | 28.31 | 5.24 | 0.00 | AVERAGE | 100 | 279 |
| 3 | @ | 2483.500 | 52.48 | -1.52 | 54.00 | 18.84 | 28.36 | 5.29 | 0.00 | AVERAGE | 100 | 279 |
| 4 | e | 2483.500 | 71.25 | -2.75 | 74.00 | 37.60 | 28.36 | 5.29 | 0.00 | PEAK | 100 | 279 |

Note: Items 3 & 4 are Band- Edge.

Note:

Emission level (dBuV/m) = $20 \log Emission$ level (uV/m).

Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level.

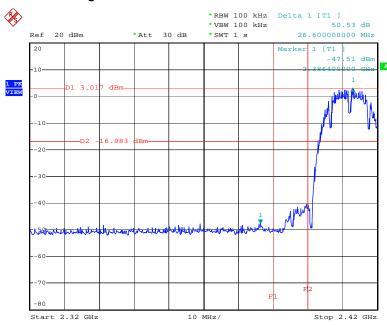
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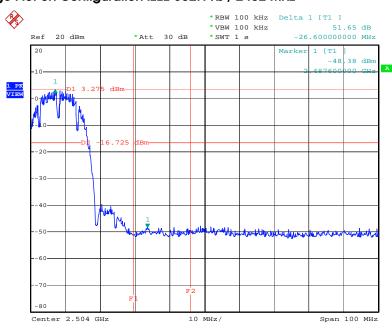


For Emission not in Restricted Band Low Band Edge Plot on Configuration IEEE 802.11b / 2412 MHz



Date: 11.0CT.2006 03:49:55

High Band Edge Plot on Configuration IEEE 802.11b / 2462 MHz



Date: 11.0CT.2006 03:50:55

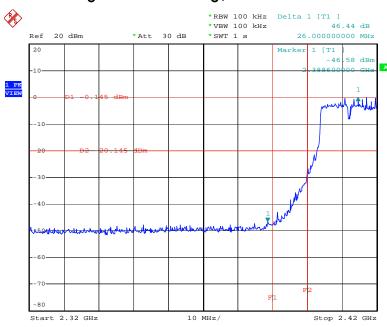
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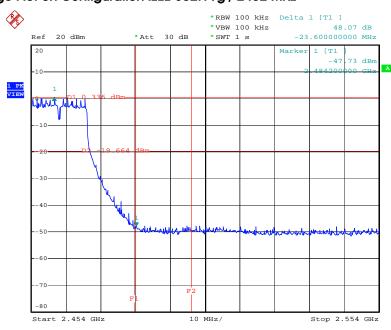


Low Band Edge Plot on Configuration IEEE 802.11g / 2412 MHz



Date: 11.OCT.2006 03:44:29

High Band Edge Plot on Configuration IEEE 802.11g / 2462 MHz



Date: 11.OCT.2006 03:46:34

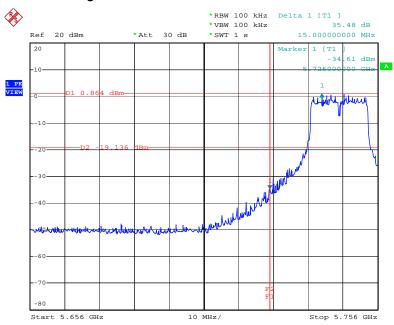
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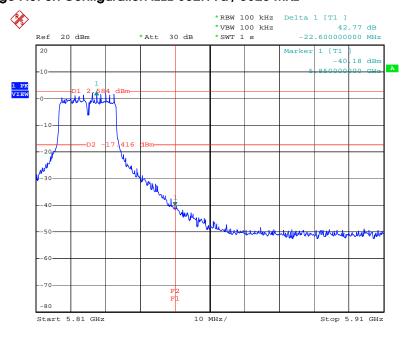


Low Band Edge Plot on Configuration IEEE 802.11a / 5745 MHz



Date: 11.OCT.2006 03:56:47

High Band Edge Plot on Configuration IEEE 802.11a / 5825 MHz



Date: 11.0CT.2006 03:58:38

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4.7. Antenna Requirements

4.7.1. Limit

Except for special regulations, the Low-power Radio-frequency Devices must not be equipped with any jacket for installing an antenna with extension cable. An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

4.7.2. Antenna Connector Construction

Please refer to section 3.3 in this test report; antenna connector complied with the requirements.

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5. LIST OF MEASURING EQUIPMENTS

| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Remark |
|-----------------------------|-----------------------------|---------------|-------------|----------------------|---------------------|--------------------------|
| EMC Receiver | R&S | ESCS 30 | 100174 | 9kHz – 2.75GHz | Feb. 22, 2006 | Conduction (CO04-HY) |
| LISN | MessTec | NNB-2/16Z | 99079 | 9kHz – 30MHz | Dec. 19, 2005 | Conduction (CO04-HY) |
| LISN (Support Unit) | EMCO | 3810/2NM | 9708-1839 | 9kHz – 30MHz | Mar. 18, 2006 | Conduction (CO04-HY) |
| RF Cable-CON | UTIFLEX | 3102-26886-4 | CB049 | 9kHz – 30MHz | Apr. 20, 2006 | Conduction (CO04-HY) |
| EMI Filter | LINDGREN | LRE-2030 | 2651 | < 450 Hz | N/A | Conduction (CO04-HY) |
| 3m Semi Anechoic Chamber | SIDT FRANKONIA | SAC-3M | 03CH03-HY | 30 MHz - 1 GHz 3m | Jun. 15, 2006 | Radiation (03CH03-HY) |
| Amplifier | SCHAFFNER | CPA9231A | 18667 | 9 kHz - 2 GHz | Jan. 18, 2006 | Radiation (03CH03-HY) |
| Amplifier | Agilent | 8449B | 3008A02120 | 1 GHz - 26.5 GHz | May 29, 2006 | Radiation (03CH03-HY) |
| Amplifier | MITEQ | AMF-6F-260400 | 923364 | 26.5 GHz - 40 GHz | Jan. 24, 2006* | Radiation (03CH03-HY) |
| Spectrum Analyzer | R&S | FSP40 | 100004/040 | 9 kHZ - 40 GHz | Sep. 21, 2006 | Radiation (03CH03-HY) |
| Loop Antenna | R&S | HFH2-Z2 | 860004/001 | 9 kHz - 30 MHz | May 23, 2006* | Radiation (03CH03-HY) |
| Bilog Antenna | SCHAFFNER | CBL 6112D | 22237 | 30 MHz – 1 GHz | Jul. 24, 2006 | Radiation (03CH03-HY) |
| Horn Antenna | EMCO | 3115 | 6903 | 1GHz ~ 18GHz | Mar. 15, 2006 | Radiation (03CH03-HY) |
| Horn Antenna | SCHWARZBECK | BBHA9170 | BBHA9170154 | 15 GHz - 40 GHz | NCR | Radiation (03CH03-HY) |
| RF Cable-R03m | Jye Bao | RG142 | CB021 | 30 MHz - 1 GHz | Dec.02, 2005 | Radiation (03CH03-HY) |
| RF Cable-HIGH | SUHNER | SUCOFLEX 106 | 03CH03-HY | 1 GHz - 40 GHz | Dec.02, 2005 | Radiation (03CH03-HY) |
| Turn Table | HD | DS 420 | 420/650/00 | 0 – 360 degree | N/A | Radiation (03CH03-HY) |
| Antenna Mast | HD | MA 240 | 240/560/00 | 1 m - 4 m | N/A | Radiation (03CH03-HY) |
| Spectrum Analyzer | R&S | FSP30 | 100023 | 9kHz ~ 30GHz | Nov. 26, 2005 | Conducted (TH01-HY) |
| Power Meter | R&S | NRVS | 100764 | DC ~ 40GHz | Jul, 20, 2006 | Conducted (TH01-HY) |
| Power Sensor | R&S | NRV-Z51 | 100666 | DC ~ 40GHz | Jul. 20, 2006 | Conducted (TH01-HY) |
| Power Sensor | R&S | NRV-Z32 | 100057 | 30MHz ~ 6GHz | Jun, 10, 2006 | Conducted (TH01-HY) |
| AC Power Source | Power Source HPC HPA-500W | | HPA-9100024 | AC 0 ~ 300V | Apr. 21, 2005* | Conducted (TH01-HY) |
| DC Power Source | Power Source G.W. GPC-6030D | | C671845 | DC 1V ~ 60V | Dec. 28, 2005 | Conducted (TH01-HY) |
| Temp. and Humidity Chamber | KSON | THS-C3L | 612 | N/A | Oct. 02, 2006 | Conducted (TH01-HY) |
| RF CABLE-1m | Jye Bao | RG142 | CB034-1m | 20MHz ~ 7GHz | Dec. 30, 2005 | Conducted (TH01-HY) |

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| Instrument | Manufacturer | Model No. | Serial No. | Characteristics | Calibration Date | Remark |
|------------------|--------------------------------|-------------------------------------|---------------|------------------------|---------------------|------------------------|
| RF CABLE-2m | Jye Bao | Jye Bao RG142 CB035-2m 20MHz ~ 1GHz | | 20MHz ~ 1GHz | Dec. 30, 2005 | Conducted (TH01-HY) |
| Oscilloscope | Tektronix | TDS1012 | CO38515 | 100MHz / 1GS/s | Jun. 20, 2006 | Conducted (TH01-HY) |
| Signal Generator | R&S SMR40 100116 10MHz ~ 40GHz | | Dec. 30, 2005 | Conducted (TH01-HY) | | |
| Data Generator | Tektronix | DG2030 | 063-2920-50 | 0.1Hz~400MHz | Jun. 16, 2006 | Conducted (TH01-HY) |

Note: Calibration Interval of instruments listed above is one year.

Note: * Calibration Interval of instruments listed above is two year.

Note: NCR means Non-Calibration required.

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6. TEST LOCATION

| SHIJR | ADD | : | 6FI., No. 106, Sec. 1, Shintai 5th Rd., Shijr City, Taipei, Taiwan 221, R.O.C. |
|--------|-----|---|--|
| | TEL | : | 886-2-2696-2468 |
| | FAX | : | 886-2-2696-2255 |
| HWA YA | ADD | : | No. 52, Hwa Ya 1st Rd., Kwei-Shan Hsiang, Tao Yuan Hsien, Taiwan, R.O.C. |
| | TEL | : | 886-3-327-3456 |
| | FAX | : | 886-3-318-0055 |
| LINKOU | ADD | : | No. 30-2, Dingfu Tsuen, Linkou Shiang, Taipei, Taiwan 244, R.O.C |
| | TEL | : | 886-2-2601-1640 |
| | FAX | : | 886-2-2601-1695 |
| DUNGHU | ADD | : | No. 3, Lane 238, Kangle St., Neihu Chiu, Taipei, Taiwan 114, R.O.C. |
| | TEL | : | 886-2-2631-4739 |
| | FAX | : | 886-2-2631-9740 |
| JUNGHE | ADD | : | 7FI., No. 758, Jungjeng Rd., Junghe City, Taipei, Taiwan 235, R.O.C. |
| | TEL | : | 886-2-8227-2020 |
| | FAX | : | 886-2-8227-2626 |
| NEIHU | ADD | : | 4FI., No. 339, Hsin Hu 2 nd Rd., Taipei 114, Taiwan, R.O.C. |
| | TEL | : | 886-2-2794-8886 |
| | FAX | : | 886-2-2794-9777 |
| JHUBEI | ADD | : | No.8, Lane 724, Bo-ai St., Jhubei City, HsinChu County 302, Taiwan, R.O.C. |
| | TEL | : | 886-3-656-9065 |
| | FAX | : | 886-3-656-9085 |
| | | | |

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