

*FCC PART 15, SUBPART B and C
TEST REPORT**for***INTEL MINI PCI TYPE 3A 802.11 ABG
WIRELESS LAN ADAPTER
FOR USE IN THE DELL LAPTOP
AGENCY SERIES NUMBER: PP17L****MODEL: WM3A2915ABG**

Prepared for

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DATE: APRIL 7, 2005

| | REPORT BODY | APPENDICES | | | | | TOTAL |
|-------|----------------|------------|----------|----------|----------|----------|------------|
| | | <i>A</i> | <i>B</i> | <i>C</i> | <i>D</i> | <i>E</i> | |
| PAGES | 22 | 2 | 2 | 2 | 18 | 146 | 191 |

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TABLE OF CONTENTS

| Section / Title | PAGE |
|--|-------------|
| GENERAL REPORT SUMMARY | 4 |
| SUMMARY OF TEST RESULTS | 5 |
| 1. PURPOSE | 6 |
| 2. ADMINISTRATIVE DATA | 7 |
| 2.1 Location of Testing | 7 |
| 2.2 Traceability Statement | 7 |
| 2.3 Cognizant Personnel | 7 |
| 2.4 Date Test Sample was Received | 7 |
| 2.5 Disposition of the Test Sample | 7 |
| 2.6 Abbreviations and Acronyms | 7 |
| 3. APPLICABLE DOCUMENTS | 8 |
| 4. DESCRIPTION OF TEST CONFIGURATION | 9 |
| 4.1 Description of Test Configuration - EMI | 9 |
| 4.1.1 Cable Construction and Termination | 10 |
| 5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT | 11 |
| 5.1 EUT and Accessory List | 11 |
| 5.2 EMI Test Equipment for Brea Facility – Part 1 | 12 |
| 5.3 EMI Test Equipment for Brea Facility – Part 2 | 13 |
| 6. TEST SITE DESCRIPTION | 14 |
| 6.1 Test Facility Description | 14 |
| 6.2 EUT Mounting, Bonding and Grounding | 14 |
| 7. CHARACTERISTICS OF THE TRANSMITTER | 15 |
| 7.1 Antenna Gain | 15 |
| 8. TEST PROCEDURES | 16 |
| 8.1 RF Emissions | 16 |
| 8.1.1 Conducted Emissions Test | 16 |
| 8.1.2 Radiated Emissions (Spurious and Harmonics) Test | 17 |
| 8.2 6 dB and 20 dB Bandwidth | 19 |
| 8.3 Peak Output Power | 19 |
| 8.4 RF Antenna Conducted Test | 19 |
| 8.5 Spectral Density Output | 20 |
| 8.6 RF Band Edges | 21 |
| 9. CONCLUSIONS | 22 |

LIST OF APPENDICES

| APPENDIX | TITLE |
|-----------------|---|
| A | Laboratory Recognitions |
| B | Modifications to the EUT |
| C | Additional Models Covered Under This Report |
| D | Diagrams, Charts, and Photos <ul style="list-style-type: none">• Test Setup Diagrams• Radiated and Conducted Emissions Photos• Antenna and Effective Gain Factors |
| E | Data Sheets |

LIST OF FIGURES

| FIGURE | TITLE |
|---------------|--|
| 1 | Conducted Emissions Test Setup |
| 2 | Plot Map and Layout of 3 Meter Radiated Site |

GENERAL REPORT SUMMARY

This electromagnetic emission test report is generated by Compatible Electronics Inc., which is an independent testing and consulting firm. The test report is based on testing performed by Compatible Electronics personnel according to the measurement procedures described in the test specifications given below and in the "Test Procedures" section of this report.

The measurement data and conclusions appearing herein relate only to the sample tested and this report may not be reproduced without the written permission of Compatible Electronics, unless done so in full.

This report must not be used to claim product endorsement by NVLAP, NIST, or any other agency of the U.S. Government.

Device Tested: Intel Mini PCI Type 3A 802.11 ABG Wireless LAN Adapter
for use in the Dell Laptop Agency Series Number: PP17L
Model: WM3A2915ABG
S/N: N/A

Product Description: The product is a wireless Mini PCI card used for the Dell Computer Corporation Laptop Agency Series Number: PP17L.

Modifications: The EUT was not modified during the testing.

Manufacturer: Dell Computer Corporation
One Dell Way
Round Rock, Texas 78682

Test Dates: March 14 and 15, 2005

Test Specifications: EMI requirements
Limits: **Class B** of CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.207, 15.209, and 15.247

Test Procedure: ANSI C63.4: 2003

Test Deviations: The test procedure was not deviated from during the testing.

SUMMARY OF TEST RESULTS

| <i>TEST</i> | DESCRIPTION | RESULTS |
|-------------|---|---|
| 1 | Conducted RF Emissions, 150 kHz – 30 MHz | Complies with the Class B limits of CFR Title 47, Part 15, Subpart B; and the limits of CFR Title 47, Part 15, Subpart C, section 15.207 |
| 2 | Spurious Radiated RF Emissions, 30 MHz – 1000 MHz | Complies with the Class B limits of CFR Title 47, Part 15, Subpart B; and the limits of CFR Title 47, Part 15, Subpart C, section 15.209 |
| 3 | Spurious Radiated RF Emissions, 10 kHz – 30 MHz and 1000 MHz – 40000 MHz | Complies with the Class B limits of CFR Title 47, Part 15, Subpart B; and CFR Title 47, Part 15, Subpart C, section 15.247(d) |
| 4 | Fundamental and Emissions produced by the intentional radiator in non-restricted bands, 10 kHz – 40 GHz | Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247(d) |
| 5 | Emissions produced by the intentional radiator in restricted bands, 10 kHz – 40 GHz | Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.205, 15.209(a), and section 15.247 (d) |
| 6 | 6 dB Bandwidth | Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247(a)(2) |
| 7 | Peak Power Output | Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247(b)(3) |
| 8 | RF Conducted Antenna Test | Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247(d) |
| 9 | Peak Power Spectral Density Conducted from the Intentional Radiator to the Antenna Port | Complies with the relevant requirements of CFR Title 47, Part 15, Subpart C, section 15.247 (e) |

1. PURPOSE

This document is a qualification test report based on the Electromagnetic Interference (EMI) tests performed on the Intel Mini PCI Type 3A 802.11 ABG Wireless LAN Adapter (for use in the Dell Laptop Agency Series Number: PP17L) Model: WM3A2915ABG. The EMI measurements were performed according to the measurement procedure described in ANSI C63.4: 2003. The tests were performed in order to determine whether the electromagnetic emissions from the equipment under test, referred to as EUT hereafter, are within the specification limits defined by the **Class B** limits of CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.207, 15.209, and 15.247.

Note: The 2400 MHz to 2485.3 MHz and the 5725 MHz to 5850 MHz bands are applicable to this report; the other bands of operation (5150 MHz to 5250 MHz and 5250 MHz to 5350 MHz) are documented in the Compatible Electronics, Inc. report number **B50326D6**.

2. ADMINISTRATIVE DATA

2.1 Location of Testing

The EMI tests of the testing described herein were performed at the test facility of Compatible Electronics at the following location:

114 Olinda Drive, Brea, California 92823

2.2 Traceability Statement

The calibration certificates of all test equipment used during the test are on file at the location of the test. The calibration is traceable to the National Institute of Standards and Technology (NIST).

2.3 Cognizant Personnel

Dell Computer Corporation

Jason Limoges Regulatory Engineer

Compatible Electronics, Inc.

Benigno Chavez Test Engineer
Arnold Gaffud Sr. Test Engineer
Kyle Fujimoto Test Engineer
Michael Christensen Lab Manager

2.4 Date Test Sample was Received

The test sample was received on March 7, 2005.

2.5 Disposition of the Test Sample

The sample has not been returned to Dell Computer Corporation as of April 7, 2005.

2.6 Abbreviations and Acronyms

The following abbreviations and acronyms may be used in this document.

| | |
|------|--------------------------------------|
| RF | Radio Frequency |
| EMI | Electromagnetic Interference |
| EUT | Equipment Under Test |
| P/N | Part Number |
| S/N | Serial Number |
| HP | Hewlett Packard |
| ITE | Information Technology Equipment |
| CML | Corrected Meter Limit |
| LISN | Line Impedance Stabilization Network |

3. APPLICABLE DOCUMENTS

The following documents are referenced or used in the preparation of this EMI Test Report.

| SPEC | TITLE |
|---------------------------------------|---|
| FCC Title 47, Part 15 Subpart C | FCC Rules - Radio frequency devices (including digital devices) – Intentional Radiators |
| ANSI C63.4 2003 | Methods of measurement of radio-noise emissions from low-voltage electrical and electronic equipment in the range of 9 kHz to 40 GHz |
| FCC Title 47, Part 15 Subpart B | FCC Rules - Radio frequency devices (including digital devices) – Unintentional Radiators |

4. DESCRIPTION OF TEST CONFIGURATION

4.1 Description of Test Configuration - EMI

Setup and operation of the equipment under test.

Specifics of the EUT and Peripherals Tested

The Intel Mini PCI Type 3A 802.11ABG Wireless LAN Adapter (for use in the Dell Laptop Agency Series Number: PP17L) Model: WM3A2915ABG was directly connected to the laptop's mini PCI port at the bottom of the laptop. The laptop was also connected to the printer, modem, and AC Adapter via its parallel, modem, and power ports, respectively. The EUT was either continuously transmitting or receiving depending on the test being performed. The commands for the EUT were programmed using the special test software provided.

Note: For all tests, the main antenna port was tested, with the auxiliary antenna port being spot checked to insure the readings were not higher.

The final radiated as well as the conducted data was taken in the mode above. Please see Appendix E for the data sheets.

4.1.1 Cable Construction and Termination

- Cable 1** This is a 1.5 meter braid and foil shielded cable connecting the laptop to the modem. It has a D-9 pin metallic connector at the laptop end and a D-25 pin metallic connector at the modem end. The cable was bundled to a length of 96 centimeters. The shield of the cable was grounded to the chassis via the connectors.
- Cable 2** This is a 1.4 meter braid and foil shielded cable connecting the laptop to the printer. It has a Centronics metallic type connector at the printer end and a D-25 pin metallic connector at the laptop end. The cable was bundled to a length of 75 centimeters. The shield of the cable was grounded to the chassis via the connectors.
- Cable 3** This is a 1.7 meter unshielded cable connecting the laptop to the AC Adapter. It has a 5.5 mm power connector at the laptop end and is hard wired into the laptop. The cable was bundled to a length of 1.1 meters. The cable had a molded ferrite at the laptop end.

5. LISTS OF EUT, ACCESSORIES AND TEST EQUIPMENT

5.1 EUT and Accessory List

| EQUIPMENT | MANUFACTURER | MODEL NUMBER | SERIAL NUMBER | FCC ID |
|--|---------------------------|--------------------------|----------------------|---------------------|
| Equipment Name | | | | |
| Intel Mini PCI Type 3A 802.11 ABG Wireless LAN Adapter (EUT) | INTEL CORPORATION | WM3A2915ABG | N/A | E2K5HCKT |
| EUT Sub-Assemblies | | | | |
| Main Antenna | PHYCOMP | DELL P/N: DQ601250112 | N/A | N/A |
| Auxiliary Antenna | PHYCOMP | DELL P/N: DQ601250112 | N/A | N/A |
| Host Equipment List | | | | |
| Laptop | DELL COMPUTER CORPORATION | PP17L | N/A | DoC |
| Printer | CITIZEN | LSP-10 | 118439-72 | DLK66TLSP-10 |
| Modem | HAYES | 231AA | A07031003480 | BFJ9D9231AA |
| AC Adapter for Laptop | DELL COMPUTER CORPORATION | PA-1650-05D | N/A | N/A |

5.2 EMI Test Equipment for Brea Facility – Part 1

| EQUIPMENT TYPE | MANUFACTURER | MODEL NUMBER | SERIAL NUMBER | CAL. DATE | CAL. DUE DATE |
|---|------------------------|---------------------|----------------------|--------------------|----------------------|
| Radiated Emissions Manual Test – Radiated | Compatible Electronics | N/A | N/A | N/A | N/A |
| Conducted Emissions Test Program | Compatible Electronics | N/A | N/A | N/A | N/A |
| Spectrum Analyzer – Main Section | Hewlett Packard | 8566B | 3638A08768 | June 24, 2004 | June 24, 2005 |
| Spectrum Analyzer – Display Section | Hewlett Packard | 85662A | 3701A22262 | June 24, 2004 | June 24, 2005 |
| Quasi-Peak Adapter | Hewlett Packard | 85650A | 2811A01363 | June 24, 2004 | June 24, 2005 |
| Microwave Preamplifier | Com-Power | PA-122 | 25196 | February 3, 2005 | February 3, 2006 |
| Biconical Antenna | Com Power | AB-900 | 15250 | March 11, 2005 | March 11, 2006 |
| Log Periodic Antenna | Com Power | AL-100 | 16060 | September 27, 2004 | Sept. 27, 2005 |
| Computer | Hewlett Packard | D5251A 888 | US74458128 | N/A | N/A |
| Monitor | Hewlett Packard | D5258A | DK74889705 | N/A | N/A |
| LISN | Com Power | LI-215 | 12090 | October 26, 2004 | Oct. 26, 2005 |
| LISN | Com Power | LI-215 | 12076 | October 26, 2004 | Oct. 26, 2005 |
| Transient Limiter | Seaward | 252A910 | K39-0220 | September 20, 2004 | Sept. 20, 2005 |

5.3 EMI Test Equipment for Brea Facility – Part 2

| EQUIPMENT TYPE | MANUFACTURER | MODEL NUMBER | SERIAL NUMBER | CAL. DATE | CAL. DUE DATE |
|--------------------------------|---------------------------|--------------|---------------|-------------------|-----------------|
| EMI Receiver | Rohde & Schwarz | ESIB40 | 100172 | October 28, 2004 | Oct. 28, 2005 |
| Loop Antenna | Com-Power | AL-130 | 17089 | September 3, 2004 | Sept. 3, 2005 |
| Horn Antenna | Com-Power | AH826 | 0071957 | November 5, 2003 | Nov. 5, 2005 |
| Horn Antenna | Antenna Research | MWH-2640/B | 1011 | November 5, 2003 | Nov. 5, 2005 |
| Horn Antenna | Antenna Research | DRG-118/A | 1053 | January 16, 2004 | Jan. 16, 2006 |
| Microwave Preamplifier | Com Power | PA-122 | 25195 | February 25, 2005 | Feb. 25, 2006 |
| Microwave Preamplifier | Com Power | PA-840 | 711013 | February 25, 2005 | Feb. 25, 2006 |
| RF Peak Power Meter / Analyzer | Boonton Electronics Corp. | 4500A-01-30 | 1282 | February 23, 2004 | Feb. 23, 2006 |
| Peak Power Sensor | Boonton Electronics Corp. | 57318 | 3723 | February 23, 2004 | Feb. 23, 2006 |
| RF Attenuator | Weinschel Corporation | 2 | BJ6396 | August 12, 2004 | August 12, 2005 |

6. TEST SITE DESCRIPTION

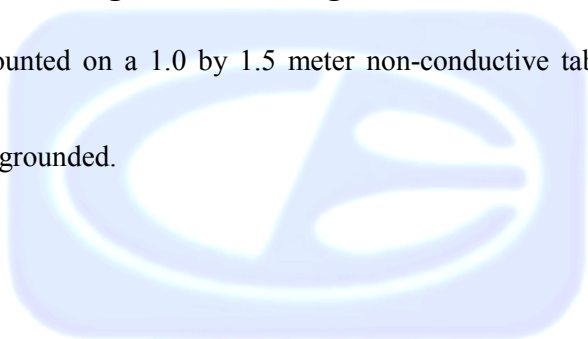
6.1 Test Facility Description

Please refer to section 2.1 and 7.1 of this report for EMI test location.

6.2 EUT Mounting, Bonding and Grounding

The EUT was mounted on a 1.0 by 1.5 meter non-conductive table 0.8 meters above the ground plane.

The EUT was not grounded.



7. CHARACTERISTICS OF THE TRANSMITTER**7.1 Antenna Gain**

For the 2.4 GHz Band: The antenna gain is 1.16 dBi.

For the 5 GHz Band: The antenna gain is 3.75 dBi.



8. TEST PROCEDURES

The following sections describe the test methods and the specifications for the tests. Test results are also included in this section.

8.1 RF Emissions

8.1.1 Conducted Emissions Test

The spectrum analyzer was used as a measuring meter. The data was collected with the spectrum analyzer in the peak detect mode with the "Max Hold" feature activated. The quasi-peak was used only where indicated in the data sheets. A transient limiter was used for the protection of the spectrum analyzer input stage, and the offset was adjusted accordingly to read the actual data measured. The LISN output was measured using the spectrum analyzer. The output of the second LISN was terminated by a 50 ohm termination. The effective measurement bandwidth used for this test was 9 kHz.

Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The EUT was powered through the LISN, which was bonded to the ground plane. The LISN power was filtered and the filter was bonded to the ground plane. The EUT was set up with the minimum distances from any conductive surfaces as specified in ANSI C63.4: 2003. The excess power cord was wrapped in a figure eight pattern to form a bundle not exceeding 0.4 meters in length.

The conducted emissions from the EUT were maximized for operating mode as well as cable placement. The final data was collected under program control by the Compatible Electronics conducted emissions software in several overlapping sweeps by running the spectrum analyzer at a minimum scan rate of 10 seconds per octave. The final qualification data is located in Appendix E.

Test Results:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and the limits of CFR Title 47, Part 15, Subpart C, Section 15.207 for conducted emissions.

8.1.2 Radiated Emissions (Spurious and Harmonics) Test

The EMI Receiver was used as a measuring meter along with the quasi-peak adapter. Amplifiers were used to increase the sensitivity of the instrument. The Com Power Preamplifier Model: PA-103 was used for frequencies from 30 MHz to 1 GHz, the Com-Power Microwave Preamplifier Model: PA-122 was used for frequencies from 1 GHz to 18 GHz, and the Com Power Microwave Preamplifier Model: PA-840 was used for frequencies from 18 GHz to 40 GHz. The spectrum analyzer was used in the peak detect mode with the "Max Hold" feature activated. In this mode, the EMI Receiver records the highest measured reading over all the sweeps.

The quasi-peak adapter was used only for those readings which are marked accordingly on the data sheets.

The frequencies above 1 GHz were averaged manually by narrowing the video filter down to 10 Hz and putting the sweep time on AUTO on the EMI Receiver to keep the amplitude reading calibrated.

The measurement bandwidths and transducers used for the radiated emissions test were:

| FREQUENCY RANGE | EFFECTIVE MEASUREMENT BANDWIDTH | TRANSDUCER |
|------------------------|--|----------------------|
| 10 kHz to 150 kHz | 200 Hz | Active Loop Antenna |
| 150 kHz to 30 MHz | 9 kHz | Active Loop Antenna |
| 30 MHz to 300 MHz | 120 kHz | Biconical Antenna |
| 300 MHz to 1 GHz | 120 kHz | Log Periodic Antenna |
| 1 GHz to 40 GHz | 1 MHz | Horn Antenna |

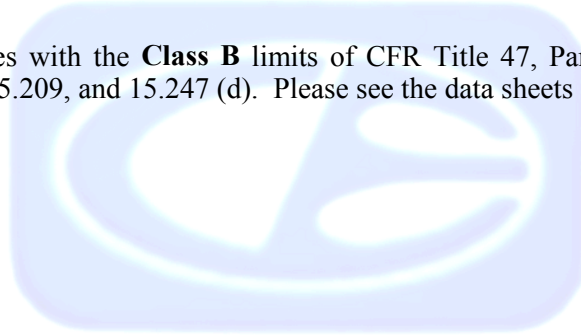
The open field test site of Compatible Electronics, Inc. was used for radiated emission testing. This test site is set up according to ANSI C63.4: 2003. Please see section 6.2 of this report for mounting, bonding and grounding of the EUT. The turntable supporting the EUT is remote controlled using a motor. The turntable permits EUT rotation of 360 degrees in order to maximize emissions. Also, the antenna mast allows height variation of the antenna from 1 meter to 4 meters. Data was collected in the worst case (highest emission) configuration of the EUT by the Radiated Emission Manual Test software. At each reading, the EUT was rotated 360 degrees and the antenna height was varied from 1 to 4 meters (for E field radiated field strength). The gunsight method was used when measuring with the horn antenna in order to ensure accurate results.

Radiated Emissions (Spurious and Harmonics) Test (con't)

The presence of ambient signals was verified by turning the EUT off. In case an ambient signal was detected, the measurement bandwidth was reduced temporarily and verification was made that an additional adjacent peak did not exist. This ensures that the ambient signal does not hide any emissions from the EUT. The EUT was tested at a 3 meter test distance to obtain final data.

Test Results:

The EUT complies with the **Class B** limits of CFR Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.209, and 15.247 (d). Please see the data sheets located in Appendix E.



8.2 6 dB and 20 dB Bandwidth

The 6 dB and 20 dB bandwidths were measured using the EMI Receiver. The bandwidth was measured using a direct connection from the RF out on the EUT. The resolution bandwidth was 100 kHz and the video bandwidth was 300 kHz.

Test Results:

The EUT complies with the relevant requirements of CFR Title 47, Part 15, Subpart C section 15.247 (a)(2).

8.3 Peak Output Power

The Peak Output Power was measured using the power meter and power sensor. The EUT was directly connected to the power sensor, which was directly connected to the power meter. The Peak Output Power was then measured

Test Results:

The EUT complies with the relevant requirements of CFR Title 47, Part 15, Subpart C section 15.247 (b)(3).

8.4 RF Antenna Conducted Test

The RF antenna conducted test was performed using the EMI Receiver. The RF antenna conducted test was measured using a direct connection from the RF out on the EUT into the input of the analyzer. The resolution bandwidth was 100 kHz, and the video bandwidth 300 kHz. The spans were wide enough to include all the harmonics and emissions that were produced by the intentional radiator.

Test Results:

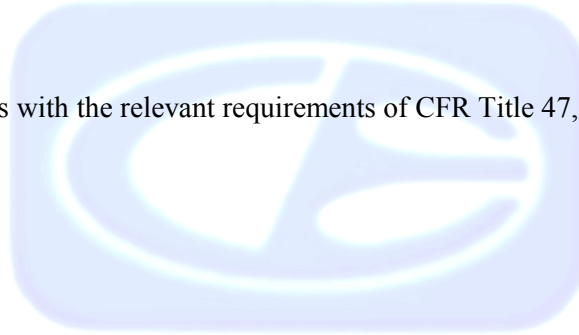
The EUT complies with the relevant requirements of CFR Title 47, Part 15, Subpart C section 15.247 (d).

8.5 Spectral Density Output

The spectral density output was measured using the EMI Receiver. The spectral density output was measured using a direct connection from the RF out on the EUT into the input of the EMI Receiver. The resolution bandwidth was 3 kHz, and the video bandwidth was 10 kHz. The highest 1.5 MHz of the signal was used as the frequency span with the sweep rate being 1 second for every 3 kHz of span.

Test Results:

The EUT complies with the relevant requirements of CFR Title 47, Part 15, Subpart C section 15.247 (e).



8.6 RF Band Edges

The RF band edges were measured at the start of the restricted bands (2390 MHz and 2483.5 MHz). The readings taken were also averaged by the EMI Receiver. Data sheets are included in Appendix E, which compares the reading from the EMI Receiver to the spec limit.

Readings that were taken using the Marker Delta Method were derived as follows:

1. Set the EUT to transmit on the highest operating frequency near the edge of the restricted band. Set the EMI Receiver sweep to the edge of the restricted band and set the span wide enough to encompass the fundamental signal and the edge of the restricted band.
2. Make a radiated emissions measurement of the fundamental at 3 meters on the OATS. Maximize the level of the emission. Using MAX HOLD and Peak Search, record the highest peak and average level. (Peak: RBW = VBW = 1 MHz; AVG: RBW = 1 MHz, VBW = 10 Hz)
3. Connect a coax cable to the antenna output of the EUT and measure directly to the EMI Receiver. Use the same center frequency and span settings that were used for steps #1 and #2. Reduce the RBW to 100 kHz (this has been specified for band edge 2.4 GHz 15.247, Note: this is about 1% and 1% would probably suffice for most measurements.) Set the VBW = 1 MHz for peak, 10 Hz for AVG (identical to previous readings). Using MAX HOLD, then “Peak Search” and “Marker Delta” determine the “delta dB” from the peak of the fundamental to the maximum level within the restricted band. This dBc level is the “Delta dB” reading.
4. If the maximum level within the restricted band is within two standard BW (where a “standard” bandwidth is the bandwidth specified by ANSI C63.4: 2001 for the frequency being measured, or 1 MHz for > 1GHz) of the edge of the restricted band, measure the amount that the level of the fundamental dropped when the RBW was changed from 1 MHz to the RBW used in step 2.
5. Calculate the PEAK and Average level within the restricted band in dBuV/m using the equations below:

For readings within two standard bandwidths of the band edge:

Restricted band level (Peak) = Peak reference level – delta dB – BW delta dB (step #4)

Restricted band level (AVG) = Average reference level – delta dB – BW delta dB (step #4)

For readings that are outside the two standard bandwidths of the band edge:

Restricted band level (Peak) = Peak reference level – delta dB

Restricted band level (AVG) = AVG reference level – delta dB

Test Results:

The EUT complies with the relevant requirements of FCC Title 47, Part 15, Subpart C section 15.247 (d). The RF power at the restricted bands closest to the band edges at 2390 MHz and 2483.5 MHz meet the limits of section 15.209. Please see the data sheets located in Appendix E.

9. CONCLUSIONS

The Intel Mini PCI Type 3A 802.11 ABG Wireless LAN Adapter (for use in the Dell Laptop Agency Series Number: PP17L) Model: WM3A2915ABG meets all of the specification limits defined in FCC Title 47, Part 15, Subpart B; and Subpart C, sections 15.205, 15.207, 15.209, and 15.247.

Note: The 2400 MHz to 2485.3 MHz and the 5725 MHz to 5850 MHz bands are applicable to this report; the other bands of operation (5150 MHz to 5250 MHz and 5250 MHz to 5350 MHz) are documented in the Compatible Electronics, Inc. report number **B50326D6**.

