



**AEGIS LABS INC.**



Class II Permissive Change  
Test Report  
And Application for Grant of Equipment Authorization

Pertaining To:

| EUT                                                               | FCC ID:        |
|-------------------------------------------------------------------|----------------|
| Intel PRO/Wireless 2915ABG Network Connection,<br>MN: WM3B2915ABG | PD9WM3B2915ABG |

| Configuration                                                                                                                                                                                                                                                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 802.11a / 802.11b / 802.11g with a set of Acer Wistron Neweb Corporation (Acer Solution 2), Wistron Neweb Corporation (Acer TravelMate 4050), Foxconn (Sony I306), Phycomp/Yageo Corporation (Sony I275), Amphenol (Samsung Neon), and Hitachi (Samsung Neon) Antennas |

*MEASUREMENTS PERFORMED IN ACCORDANCE WITH*

| Regulatory Standard(s)                                                                                                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 47 CFR Part 15, Subpart C Section 15.247                                                                                                                                                             |
| Test Method:<br>ANSI C63.4: 2001 American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz |



Certificate Number: 1111.01

**APPLICANT:**

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EC1-01 13280 Evening Creek Drive  
San Diego, California 92128

Contact(s): Mr. Robert Paxman

**PREPARED BY:**

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Test Report #: INTEL-041021F  
Test Report Revision: None

|       | REPORT<br>BODY | APPENDICES | TOTAL<br>PAGES |
|-------|----------------|------------|----------------|
|       |                | A          |                |
| PAGES | 18             | 183        | 201            |

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## 1.0 CERTIFICATION OF TEST DATA

Aegis Labs, Inc. operates as both a Nevada and California Corporation with no organizational or financial relationship with any company, institution, or private individual.

Testing and engineering functions provided by Aegis Labs are furnished through the use of part-time, full-time or consulting engineers with the appropriate qualifications to carry out their duties. The intended purpose of this test report is to describe the measurement procedure and to determine whether the equipment under test "EUT" complies with both the conducted and radiated limits. Limits for emissions testing are described under Subpart C of Part 15 of the FCC rules.

The data, data evaluation and equipment configuration represented herein are a true and accurate representation of the Equipment Under Test (EUT) under the requirements specified in the emissions standard as described below. The test results contained in this report are only representative of the test sample tested as described in Section 3.0 of this report. Certification of the EUT is required as a prerequisite to marketing as defined in Part 2 of the FCC Rules.

**Prepared By:**

**12/08/04**

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**Report Approved By:**

**12/08/04**

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## 2.0 SUMMARY OF TEST RESULTS

The test results provided within this report, indicate that the EUT has been found to be in **COMPLIANCE** with the test specifications based upon the following RF compliance standards:

Pass/Fail determination is based upon the nominal values of the test data.

### ***802.11a Mode (5745-5825 MHz)***

| EMISSIONS STANDARD  |                                                                                                                                                                                                                                                                                                                              |         |                                                                                                          |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------|
| FCC Part 15 Section | Description                                                                                                                                                                                                                                                                                                                  | Results | Comments                                                                                                 |
| 15.247(a)(2)        | The minimum 6dB bandwidth shall be at least 500 kHz.                                                                                                                                                                                                                                                                         | PASSED  | 5745 MHz = 16.58 MHz<br>5785 MHz = 16.67 MHz<br>5825 MHz = 16.67 MHz<br><i>Per Original Filing</i>       |
| 15.247(b)(1)        | The maximum peak output power of the intentional radiator shall not exceed 1 watt.                                                                                                                                                                                                                                           | PASSED  | 5745 MHz = 22.80 dBm = 190.55 mW<br>5785 MHz = 22.90 dBm = 194.98 mW<br>5825 MHz = 23.30 dBm = 213.80 mW |
| 15.247(b)(4)        | The intentional radiator shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the FCC guidelines per Section 1.1307(b)(1).                                                                                                                                | PASSED  | Refer to MPE Calculations Exhibit                                                                        |
| 15.247(c)           | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. | PASSED  | See Data Sheets                                                                                          |
| 15.247(c)           | Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc.                                                                                                                           | PASSED  | See Data Sheets                                                                                          |
| 15.247(d)           | The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.                                                                                                                                | PASSED  | 5745 MHz = -10.50 dB<br>5785 MHz = -10.50 dB<br>5825 MHz = -9.83 dB<br><i>Per Original Filing</i>        |
| 15.207              | AC Conducted Emissions                                                                                                                                                                                                                                                                                                       | PASSED  | <i>See Original Filing</i>                                                                               |
| 15.209              | Radiated Emissions (30-1000 MHz)                                                                                                                                                                                                                                                                                             | PASSED  | <i>See Original Filing</i>                                                                               |

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## 2.0 Summary of Test Results (Continued)

The test results provided within this report, indicate that the EUT has been found to be in **COMPLIANCE** with the test specifications based upon the following RF compliance standards:

Pass/Fail determination is based upon the nominal values of the test data.

### ***802.11b Mode (2412-2462 MHz)***

| EMISSIONS STANDARD  |                                                                                                                                                                                                                                                                                                                              |         |                                                                                                       |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|-------------------------------------------------------------------------------------------------------|
| FCC Part 15 Section | Description                                                                                                                                                                                                                                                                                                                  | Results | Comments                                                                                              |
| 15.247(a)(2)        | The minimum 6dB bandwidth shall be at least 500 kHz.                                                                                                                                                                                                                                                                         | PASSED  | 2412 MHz = 7.75 MHz<br>2437 MHz = 7.83 MHz<br>2462 MHz = 7.75 MHz<br><i>Per Original Filing</i>       |
| 15.247(b)(1)        | The maximum peak output power of the intentional radiator shall not exceed 1 watt.                                                                                                                                                                                                                                           | PASSED  | 2412 MHz = 17.10 dBm = 51.29 mW<br>2437 MHz = 19.00 dBm = 79.43 mW<br>2462 MHz = 19.20 dBm = 83.18 mW |
| 15.247(b)(4)        | The intentional radiator shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the FCC guidelines per Section 1.1307(b)(1).                                                                                                                                | PASSED  | Refer to MPE Calculations Exhibit                                                                     |
| 15.247(c)           | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. | PASSED  | See Data Sheets                                                                                       |
| 15.247(c)           | Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc.                                                                                                                           | PASSED  | See Data Sheets                                                                                       |
| 15.247(d)           | The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.                                                                                                                                | PASSED  | 2412 MHz = -6.17 dB<br>2437 MHz = -6.67 dB<br>2462 MHz = -7.17 dB<br><i>Per Original Filing</i>       |
| 15.207              | AC Conducted Emissions                                                                                                                                                                                                                                                                                                       | PASSED  | <i>See Original Filing</i>                                                                            |
| 15.209              | Radiated Emissions (30-1000 MHz)                                                                                                                                                                                                                                                                                             | PASSED  | <i>See Original Filing</i>                                                                            |

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## 2.0 Summary of Test Results (Continued)

The test results provided within this report, indicate that the EUT has been found to be in **COMPLIANCE** with the test specifications based upon the following RF compliance standards:

Pass/Fail determination is based upon the nominal values of the test data.

### ***802.11g Mode (2412-2462 MHz)***

| EMISSIONS STANDARD  |                                                                                                                                                                                                                                                                                                                              |         |                                                                                                          |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|----------------------------------------------------------------------------------------------------------|
| FCC Part 15 Section | Description                                                                                                                                                                                                                                                                                                                  | Results | Comments                                                                                                 |
| 15.247(a)(2)        | The minimum 6dB bandwidth shall be at least 500 kHz.                                                                                                                                                                                                                                                                         | PASSED  | 2412 MHz = 16.33 MHz<br>2437 MHz = 16.67 MHz<br>2462 MHz = 16.67 MHz<br><i>Per Original Filing</i>       |
| 15.247(b)(1)        | The maximum peak output power of the intentional radiator shall not exceed 1 watt.                                                                                                                                                                                                                                           | PASSED  | 2412 MHz = 24.10 dBm = 257.04 mW<br>2437 MHz = 24.00 dBm = 251.19 mW<br>2462 MHz = 23.90 dBm = 245.47 mW |
| 15.247(b)(4)        | The intentional radiator shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the FCC guidelines per Section 1.1307(b)(1).                                                                                                                                | PASSED  | Refer to MPE Calculations Exhibit                                                                        |
| 15.247(c)           | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power. | PASSED  | See Data Sheets                                                                                          |
| 15.247(c)           | Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc.                                                                                                                           | PASSED  | See Data Sheets                                                                                          |
| 15.247(d)           | The peak power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.                                                                                                                                | PASSED  | 2412 MHz = -11.33 dB<br>2437 MHz = -12.67 dB<br>2462 MHz = -11.17 dB<br><i>Per Original Filing</i>       |
| 15.207              | AC Conducted Emissions                                                                                                                                                                                                                                                                                                       | PASSED  | <i>See Original Filing</i>                                                                               |
| 15.209              | Radiated Emissions (30-1000 MHz)                                                                                                                                                                                                                                                                                             | PASSED  | <i>See Original Filing</i>                                                                               |

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### 3.0 ADMINISTRATIVE DATA AND TEST DESCRIPTION

|                                  |                                                                                                                                                          |
|----------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>DEVICE TESTED:</b>            | ITE Type: Intel PRO/Wireless 2915ABG Network Connection<br>Model Number(s): WM3B2915ABG<br>Serial Number: 344F96244ABC51962012<br>FCC ID: PD9WM3B2915ABG |
|                                  |                                                                                                                                                          |
| <b>TEST DATE(S):</b>             | October 21 – November 22, 2004                                                                                                                           |
| <b>DATE EUT RECEIVED:</b>        | October 21, 2004                                                                                                                                         |
|                                  |                                                                                                                                                          |
| <b>ORIGIN OF TEST SAMPLE(S):</b> | Production Unit                                                                                                                                          |
|                                  |                                                                                                                                                          |
| <b>RESPONSIBLE PARTY:</b>        | Intel Corporation<br>EC1-01 13280 Evening Creek Drive<br>San Diego, California 92128                                                                     |
|                                  |                                                                                                                                                          |
| <b>CLIENT CONTACT:</b>           | Mr. Robert Paxman                                                                                                                                        |
| <b>MANUFACTURER:</b>             | Intel Corporation                                                                                                                                        |
|                                  |                                                                                                                                                          |
| <b>TEST LOCATION:</b>            | Aegis Labs, Inc.<br>32231 Trabuco Creek Road<br>Trabuco Canyon, CA 92678<br>Conducted Site #2<br>Radiated Site #2                                        |
|                                  |                                                                                                                                                          |
| <b>A2LA CERTIFICATE:</b>         | 1111.01, Valid through February 28, 2006                                                                                                                 |
|                                  |                                                                                                                                                          |
| <b>PURPOSE OF TEST:</b>          | To demonstrate compliance with the relevant standards described in Section 2.0 of this report.                                                           |
|                                  |                                                                                                                                                          |
| <b>TEST(S) PERFORMED:</b>        | Refer to Table in Section 2.0 of this report.                                                                                                            |

All calibration vendors were responsible for certifying Aegis Labs, Inc. test equipment as per the manufacturer's specifications and that the equipment is calibrated using instruments and standards where the accuracy is traceable to the National Institute of Standards and Technology (NIST). Calibration of all test equipment conforms to ANSI/NCSL Z540-1 and ISO 10012-1 and/or ISO/IEC Guide 17025 compliance (Additionally, other pertinent test equipment will carry MIL-STD-45662A). All calibration documents are on file with Aegis Labs, Inc., with copies provided upon request.

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## 4.0 DESCRIPTION OF EUT

### 4.1 EUT Description

| Equipment Under Test (EUT)                      |                                                                                                                                                                                  |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Trade Name:</b>                              | Intel PRO/Wireless 2915ABG Network Connection                                                                                                                                    |
| <b>Model Number:</b>                            | WM3B2915ABG                                                                                                                                                                      |
| <b>Frequency Range:</b>                         | 802.11a = 5745 – 5825 MHz<br>802.11b/g = 2412 – 2462MHz                                                                                                                          |
| <b>Type of Transmission:</b>                    | Direct Sequence Spread Spectrum                                                                                                                                                  |
| <b>Transfer Rate:</b>                           | 1/5.5/11 Mbps for 802.11b mode<br>6/36/54 Mbps for 802.11g and 802.11a modes                                                                                                     |
| <b>Number of Channels:</b>                      | 802.11a mode (5725-5850 MHz) = 5<br>802.11b mode (2400-2483.5 MHz) = 11<br>802.11g mode (2400-2483.5 MHz)= 11                                                                    |
| <b>Modulation Type:</b>                         | DBPSK, DQPSK, CCK, OFDM                                                                                                                                                          |
| <b>Antenna Type:</b>                            | Hirose U.FL-R-SMT mates with cable connector U.FL-LP-066                                                                                                                         |
| <b>Antenna Gain (See Note 2):</b>               | Refer to Antenna Specifications Exhibit                                                                                                                                          |
| <b>Transmit Output Power:</b>                   | 23 dBm (Typical) for 802.11a mode<br>17 - 19 dBm (Typical) for 802.11b mode<br>24 dBm (Typical) for 802.11g mode<br>Please see Appendix A (Data Sheets) for actual output power. |
| <b>Power Supply:</b>                            | 3.3VDC from computer MPCI slot.                                                                                                                                                  |
| <b>Number of External Test Ports Exercised:</b> | 2 Antenna Ports (1 Main & 1 Auxiliary)                                                                                                                                           |

The Intel PRO/Wireless 2915ABG Network Connection is an embedded 2.4 and 5 GHz Wireless Local Area Network Mini-PCI adapter. The Mini-PCI Type 3B form factor is designed for notebook computer systems where overall thickness must be kept to an absolute minimum and connect to antennas internal to a notebook computer. It is capable of a data rate of up to 52 Mbps.

**NOTE 1:** For a more detailed description, please refer to the manufacture's specifications or User's Manual.

**NOTE 2:** The EUT was tested with a set of antennas. (Refer to the antenna specifications exhibits).

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#### 4.1.1 Channel Number and Frequencies

| 802.11a Mode |                 | 802.11b Mode |                 | 802.11g Mode |                 |
|--------------|-----------------|--------------|-----------------|--------------|-----------------|
| Channel      | Frequency (MHz) | Channel      | Frequency (MHz) | Channel      | Frequency (MHz) |
| 149          | 5745            | 1            | 2412            | 1            | 2412            |
| 153          | 5765            | 2            | 2417            | 2            | 2417            |
| 157          | 5785            | 3            | 2422            | 3            | 2422            |
| 161          | 5805            | 4            | 2427            | 4            | 2427            |
| 165          | 5825            | 5            | 2432            | 5            | 2432            |
|              |                 | 6            | 2437            | 6            | 2437            |
|              |                 | 7            | 2442            | 7            | 2442            |
|              |                 | 8            | 2447            | 8            | 2447            |
|              |                 | 9            | 2452            | 9            | 2452            |
|              |                 | 10           | 2457            | 10           | 2457            |
|              |                 | 11           | 2462            | 11           | 2462            |



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## 4.2 EUT Configuration

The EUT was tested installed in the Mini-PCI slot of the Hewlett Packard host computer as a modular device using a PCI extender board to extend the EUT outside the computer chassis. The EUT was then connected to a set of antennas via its Main and AUX antenna ports. Data for a set of Wistron Neweb Corporation (Acer Solution 2), Wistron Neweb Corporation (Acer TravelMate 4050), Foxconn (Sony I306), Phycomp/Yageo Corporation (Sony I275), Amphenol (Samsung Neon), and Hitachi (Samsung Neon) antennas can be found in Appendix A (Data Sheets)

For conducted emissions at the AC mains port and radiated emissions, the Hewlett Packard host computer was connected to a Zoom modem, Hewlett Packard printer, Dell monitor, Hewlett Packard keyboard, and Hewlett Packard mouse via its serial, parallel, video, keyboard, and mouse ports respectively.

The low, middle, and high channels were tested in 802.11a, b, & g modes. Also, the EUT was tested once transmitting from the MAIN antenna port and once transmitting from the AUX antenna port. The EUT was placed in either continuous transmit or continuous receive mode by a program provided by the manufacturer (*CRTU Version 3.2.14.0000*).



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#### 4.3 List of EUT, Sub-Assemblies, and Host Equipment

| LIST OF EUT AND SUB-ASSEMBLIES                   |                                               |                     |                          |
|--------------------------------------------------|-----------------------------------------------|---------------------|--------------------------|
| Equipment Name                                   | Manufacturer                                  | Model Number        | Serial Number            |
| Intel PRO/Wireless 2915ABG<br>Network Connection | Intel Corporation                             | WM3B2915ABG         | 344F96244AB<br>C51962012 |
| <b>EUT Sub-Assemblies</b>                        |                                               |                     |                          |
| Main Multi Band Antenna                          | Wistron Neweb Corp.<br>(Acer Solution 2)      | 81.EBQ15.006        | N/A                      |
| Auxiliary Multi Band Antenna                     | Wistron Neweb Corp.<br>(Acer Solution 2)      | 81.EBQ15.006        | N/A                      |
| Main Multi Band Antenna                          | Wistron Neweb Corp.<br>(Acer TravelMate 4050) | DC330011800.EBJ.001 | N/A                      |
| Auxiliary Multi Band Antenna                     | Wistron Neweb Corp.<br>(Acer TravelMate 4050) | DC330011800.EBJ.002 | N/A                      |
| Main Multi Band Antenna                          | Foxconn (Sony I306)                           | MS01                | N/A                      |
| Auxiliary Multi Band Antenna                     | Foxconn (Sony I306)                           | MS01                | N/A                      |
| Main Multi Band Antenna                          | Pycomp/Yageo Corp.<br>(Sony I275)             | CAN4313360012501B   | N/A                      |
| Auxiliary Multi Band Antenna                     | Pycomp/Yageo Corp.<br>(Sony I275)             | CAN4313360012501B   | N/A                      |
| Main Multi Band Antenna                          | Amphenol (Samsung Neon)                       | SS-03-03-046        | N/A                      |
| Auxiliary Multi Band Antenna                     | Amphenol (Samsung Neon)                       | SS-03-03-046        | N/A                      |
| Main Multi Band Antenna                          | Hitachi (Samsung Neon)                        | HFT26-SM01-Main     | N/A                      |
| Auxiliary Multi Band Antenna                     | Hitachi (Samsung Neon)                        | HFT26-SM01-Aux      | N/A                      |

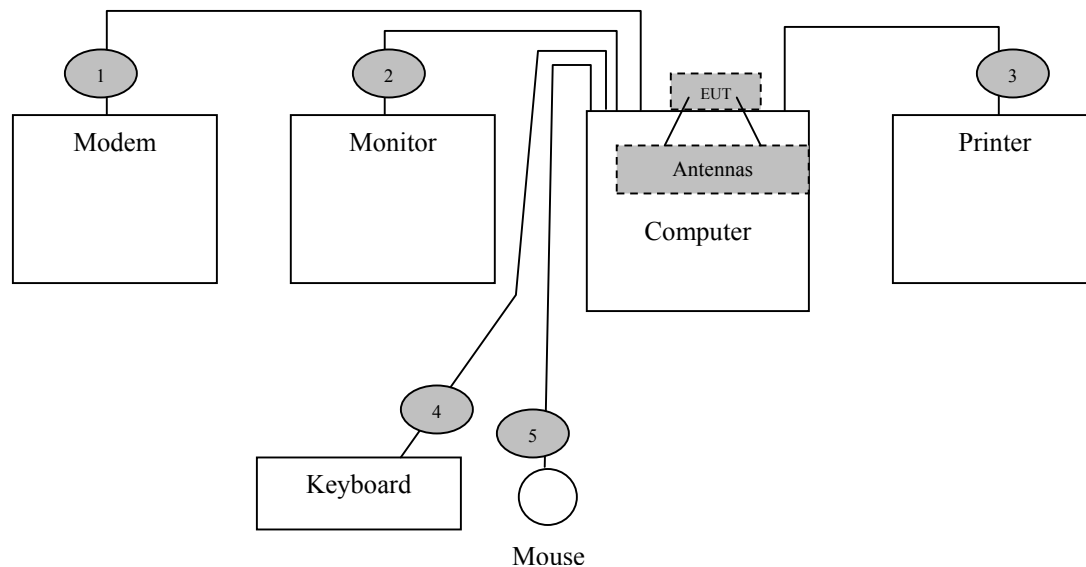
| HOST EQUIPMENT LIST |                 |                 |                              |
|---------------------|-----------------|-----------------|------------------------------|
| Equipment Name      | Manufacturer    | Model Number    | Serial Number                |
| Computer            | Hewlett Packard | Pavillion a300n | MXK3391864                   |
| LCD Monitor         | Dell            | E151FPp         | CN-06R644-47804-34R-<br>LATL |
| Keyboard            | Hewlett Packard | 5183            | BF33339165                   |
| Mouse               | Hewlett Packard | M042KC          | 30870136                     |

NOTE: All the power cords of the above support equipment are standard non-shielded, 1.8 meters long.

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#### 4.4 I/O Cabling Diagram and Description



- Cable 1: This is a 6-foot braid and foil shielded round cable connecting the Hewlett Packard host computer with the Zoom modem. It has metallic DB-9 type connector at the computer end and a metallic DB-25 type connector at the modem end. The cable is bundled to a length of one meter and the shield of the cable is grounded to the chassis of both devices via the connector shells.
- Cable 2: This is a 6-foot braid and foil shielded round cable connecting the Hewlett Packard host computer with the Dell LCD monitor. It has metallic DB-15 type connector at the computer end and is hardwired to the monitor. The cable is bundled to a length of one meter and the shield of the cable is grounded to the chassis of both devices via the connector shells.
- Cable 3: This is a 6-foot braid and foil shielded round cable connecting the Hewlett Packard host computer to the Hewlett Packard printer. It has a metallic DB-25 type connector at the computer end and a metallic centronics type connector at the printer end. The cable is bundled to a length of one meter and the shield of the cable is grounded to the chassis of both devices via the connector shells.
- Cable 4: This is a 6-foot braid and foil shielded round cable connecting the Hewlett Packard host computer to the Hewlett Packard keyboard. It has a metallic 6-pin mini din type connector at the computer end and is hardwired to the keyboard. The shield of the cable is grounded to the chassis of the computer via the connector shell.
- Cable 5: This is a 6-foot braid and foil shielded round cable connecting the Hewlett Packard host computer to the Hewlett Packard mouse. It has a metallic 6-pin mini din type connector at the computer end and is hardwired to the mouse. The shield of the cable is grounded to the chassis of the computer via the connector shell.



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## 5.0 TEST EQUIPMENT AND TEST SETUPS

The test equipment settings and functions are selected using the guidance of ANSI C63.4-1992. All test equipment setups and operations during conducted and radiated emissions testing are in accordance with this reference document.

### 5.1 AC Power Line Conducted Emissions

During conducted emissions measurements, a spectrum analyzer was used as the measuring instrument along with a preselector and quasi-peak detector. A 10 dB attenuation pad was used for the protection of the spectrum analyzer input stage. The conducted emissions from the EUT in the frequency range from 150 kHz to 30 MHz were captured for graphical display through the use of automated LABVIEW EMI measurement software. All graphical readings were measured in the “Peak” mode only to reduce testing time. Upon completion of the graphical scan, the test lab personnel performed the conducted measurement scan manually using the spectrum analyzer front panel keys. All peak measurements coming within 3 dB of the limit line were “Averaged” and/or “Quasi-Peaked” and denoted appropriately in the EXCEL spreadsheet.

The Equipment Under Test (EUT) was configured as a system with peripherals connected, so that at least one interface port of each type is connected to one external peripheral when tested for conducted emissions according to ANSI C63.4: 1992. Excess power cord length was wrapped in a bundle 30 to 40 centimeters in length near the center of the cord. The EUT was tested in a tabletop configuration.

The emission readings for Line 1 and Line 2 are highlighted on the data sheets in Appendix A. The graphical scans only reflects peak readings while the tabulated data sheets reflect peak, average, and/or quasi-peak readings which ever applies.



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## 5.2 Spurious Radiated Emissions

A spectrum analyzer was used as the measuring instrumentation along with a preselector and quasi-peak-detector. The pre-amplifiers were used to increase the sensitivity of the instrument. The spectrum analyzer was used in the peak detector mode with the “max-hold” feature activated and in Positive Peak mode. In this mode, the spectrum analyzer records the highest measured reading over all the sweeps. The quasi-peak detector was used only for those readings, which are marked accordingly in the data sheet. The effective measurement bandwidth used for the radiated emissions test was 120 kHz for (30 MHz- 1000 MHz). The spectrum analyzer operated such that the modulation of the signal was filtered out to set the analyzer in linear mode. For testing beyond 1000 MHz a spectrum analyzer capable of taking reading above 1000 MHz was connected to the high frequency amplifier, where these measurement readings were taken with the transducer placed at a 3-meter test distance from the EUT.

The Open Area Test Sites (OATS) was used for radiated emission testing. These test sites are designed according to ANSI C63.4: 1992 and ANSI C63.7: 1992 guidelines. The Measurements were conducted in accordance with ANSI C63.4: 1992 and ANSI C63.7: 1992 requirements.

Broadband biconical, log periodic, and horn antennas were used as transducers during the measurement reading phase. The frequency spans were wide (30 MHz-88 MHz, 88 MHz- 216 MHz, 216 MHz- 300 MHz, and 300 MHz- 1000 MHz). After 1000 MHz the horn antenna was used to measure emissions. The emission readings in both horizontal and vertical polarities are highlighted on the data sheets in Appendix A.

## 5.3 Conducted Emissions at the Antenna Port

A spectrum analyzer or power meter was used as the measuring instrumentation along with an attenuator and/or filter connected to the EUT antenna port. The attenuator and filters are used to ensure that the front end of the measurement instrument is not overloaded by the fundamental transmission. . The instruments recorded the measured readings with the bandwidths (video and resolution) set in accordance with the FCC Rules and regulations.

For the power out measurements in 802.11b and 802.11g modes a peak power meter was used along with a peak power sensor with a wide enough bandwidth to capture the entire fundamental transmission. For 802.11a mode a spectrum analyzer with “Channel Power Measurement” function was used to measure the peak output power.

The measured readings are on the data sheets in Appendix A.



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## 5.4 Test and Measurement Equipment Used

| TEST EQUIPMENT USED                     |                          |                      |                          |                      |                   |
|-----------------------------------------|--------------------------|----------------------|--------------------------|----------------------|-------------------|
| Equipment Name                          | Manufacturer             | Model Number         | Serial Number            | Calibration Due Date | Calibration Cycle |
| EMI Receiver - RF Section               | Hewlett Packard          | 85462A               | 3325A00137               | 03/29/05             | 1 Year            |
| EMI Receiver – RF Filter Section        | Hewlett Packard          | 85460A               | 3330A00138               | 03/29/05             | 1 Year            |
| Attenuator - 5W-10dB                    | Pasternack               | PE7014-10            | N/A                      | 11/01/05             | 1 Year            |
| LISN (EUT)                              | FCC                      | FCC-LISN-50-25-2     | 9931                     | 02/06/05             | 1 Year            |
| LISN (Access)                           | Com-Power                | LI-200               | 12019                    | 01/25/05             | 1 Year            |
| LISN (Access)                           | Com-Power                | LI-200               | 12018                    | 01/25/05             | 1 Year            |
| Spectrum Analyzer                       | Agilent                  | 8564EC               | 4046A00387               | 02/06/06             | 2 Years           |
| Preamplifier                            | Miteq                    | JS42-01001800-25-10P | 815980 & 884968 & 885090 | 12/09/04             | 2 Years           |
| 2400-2483.5 MHz Notch Filter            | Micro-Tronics            | BRM50702-02          | 003                      | 04/21/06             | 2 Years           |
| 5725-5850 MHz Notch Filter              | Microwave Circuits, Inc. | N0257881             | 3173-01                  | 06/27/05             | 2 Years           |
| Antenna - Biconical                     | EMCO                     | 3110                 | 9108-1421                | 02/11/05             | 1 Year            |
| Antenna - Log Periodic                  | EMCO                     | 3148                 | 4947                     | 02/11/05             | 1 Year            |
| 1-18 GHz Antenna - Horn                 | Com-Power                | AH-118               | 10069                    | 12/09/04             | 2 Years           |
| 18-26.5 GHz Preamplified Antenna – Horn | Custom Microwave         | H042                 | 001                      | 11/04/05             | 2 Years           |
| 26.5-40 GHz Preamplified Antenna – Horn | Custom Microwave         | H028                 | GM1260-10                | 11/04/05             | 2 Years           |
| Power Meter                             | Anritsu                  | ML2487A              | 6K00001785               | 04/05/05             | 2 Years           |
| Wide Bandwidth Sensor                   | Anritsu                  | MA2491A              | 31193                    | 04/05/05             | 2 Years           |

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## 6.0 SAMPLE CALCULATIONS

If a preamplifier is used during the Radiated Emissions Testing, it is required that the amplifier gain be subtracted from the Spectrum Analyzer (Meter) Reading. In addition, a correction factor for the antenna, cable and a distance factor, if any, must be applied to the Meter Reading before a true field strength reading can be obtained. In the Automatic Mode of A.R.M.S. measurements, these considerations are automatically presented as a part of the printout. In the case of manual measurements and for greater efficiency and convenience, usage of the calibration correction factors in the Appendices is necessary to calculate the Corrected Meter Reading. These correlation factors for each meter reading, shall be modified to reflect these correlation factors at each frequency value so that the meter readings can be compared directly to the modified specification limit. This modified specification limit is referred to as the "Corrected Meter Reading Limit" (CML).

The equation shall be derived in the following manner:

$$\text{Corrected Meter Reading} = \text{Meter Reading} + F + C - G - D$$

Where, F = Antenna Factor

C = Cable Factor

G = Amplifier Gain

D = Distance Factor

Therefore, the equation for determining the Corrected Meter Reading Limit (CML) is:

$$\text{CML} = \text{Specification Limit} - F - C + G + D$$

For the manual mode of measurement, a table of corrected meter reading limits shall be used to permit immediate comparison of the meter reading to determine if the measured emission amplitude exceeded the specification limit at that specific frequency. There shall be two calculation sheets done, one for three meter and one for ten-meter measurement distances, where applicable. The correction factors for the antenna and the amplifier gain are attached in the Appendices.



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## 6.0 Sample Calculations (Continued)

### Peak Transmit Power Output:

A correction factor for the cable must be applied to the Conducted Power before a true power reading can be obtained. This is referred to as the “Corrected Power” (CP).

The equation shall be derived in the following manner:

$$\text{Corrected Power Reading} = \text{Conducted Power Reading} + C$$

Where, C = Cable Factor

The conducted power is taken in units of dBm. To obtain units of mW the following equation is used:

$$\text{mW} = 10^{(\text{dBm}/10)}$$



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## **7.0 MODIFICATIONS AND RECOMMENDATIONS**

No modifications were made to the EUT.



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## **APPENDIX A**

### ***TEST DATA***

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***Wistron Neweb Corporation (Acer Solution 2)***  
***TEST DATA***

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## Spurious Radiated Emissions Test Results (Continued)

|                       |                                                                                                                                                       |                        |              |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                                                     | <b>DATE:</b>           | 11/05/04     |
| <b>EUT:</b>           | Intel PRO/Wireless 2915ABG Network Connection                                                                                                         | <b>PROJECT NUMBER:</b> | INTEL-041021 |
| <b>MODEL NUMBER:</b>  | WM3B2915ABG                                                                                                                                           | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 344F96244ABC51962012                                                                                                                                  | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in the Hewlett Packard host computer's mini PCI slot in <b>802.11a (5745-5825 MHz) mode with the WNC (Acer Solution 2) antennas.</b> | <b>TEMPERATURE:</b>    | 21 C         |
|                       |                                                                                                                                                       | <b>HUMIDITY:</b>       | 32% RH       |
|                       |                                                                                                                                                       | <b>TIME:</b>           | 12:00 PM     |

|                     |                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard:</b>    | FCC CFR 47, Part 15.247(c)                                                                                                                                                                         |
| <b>Description:</b> | Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc. |
| <b>Results:</b>     | Passes (See Data Sheets)                                                                                                                                                                           |

| Unwanted Spurious Emissions Limits |                       |                                                                |                                                                      |
|------------------------------------|-----------------------|----------------------------------------------------------------|----------------------------------------------------------------------|
| Frequency (MHz)                    | Field Strength (uV/m) | Field Strength (dBuV/m)<br>(Emissions in the restricted bands) | Field Strength (dBm/MHz)<br>(Emissions outside the restricted bands) |
| Above 960                          | 500                   | 54.00 (Average)<br>74.00 (Peak)                                | < -20 dBc                                                            |

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## Spurious Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11a mode (5745-5825 MHz)  
Channels 149, 157, & 169  
Continuous TX at MAIN Antenna port with WNC (Acer Solution 2) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-19*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 5745.00        | 69.00                      | 100                       | 90                   |                           |                          |                         | 5.25                   | 34.85                          | 109.09           |                     |
| 5745.00        |                            |                           |                      | 57.45                     | A                        |                         | 5.25                   | 34.85                          | 97.54            |                     |
| 5785.00        | 62.33                      | 100                       | 90                   |                           |                          |                         | 5.27                   | 34.87                          | 102.47           |                     |
| 5785.00        |                            |                           |                      | 54.32                     | A                        |                         | 5.27                   | 34.87                          | 94.46            |                     |
| 5825.00        | 67.17                      | 100                       | 90                   |                           |                          |                         | 5.30                   | 34.90                          | 107.37           |                     |
| 5825.00        |                            |                           |                      | 56.73                     | A                        |                         | 5.30                   | 34.90                          | 96.93            |                     |

### RADIATED EMISSIONS – Vertical Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 5745.00        | 66.00                      | 100                       | 90                   |                           |                          |                         | 5.25                   | 34.85                          | 106.09           |                     |
| 5745.00        |                            |                           |                      | 55.67                     | A                        |                         | 5.25                   | 34.85                          | 95.76            |                     |
| 5785.00        | 60.50                      | 150                       | 90                   |                           |                          |                         | 5.27                   | 34.87                          | 100.64           |                     |
| 5785.00        |                            |                           |                      | 51.51                     | A                        |                         | 5.27                   | 34.87                          | 91.65            |                     |
| 5825.00        | 64.17                      | 150                       | 180                  |                           |                          |                         | 5.30                   | 34.90                          | 104.37           |                     |
| 5825.00        |                            |                           |                      | 54.28                     | A                        |                         | 5.30                   | 34.90                          | 94.48            |                     |

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## Spurious Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11a mode (5745-5825 MHz)  
Channels 149, 157, & 169  
Continuous TX at MAIN Antenna port with WNC (Acer Solution 2) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-19*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 5725.00        | 35.17                      | 100                       | 90                   |                           |                          | 5.23                    | 34.84                  | 75.24                          | 89.09            | -13.86              |
| 5850.00        | 30.83                      | 100                       | 90                   |                           |                          | 5.32                    | 34.91                  | 71.06                          | 87.37            | -16.31              |

### RADIATED EMISSIONS – Vertical Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 5725.00        | 35.67                      | 100                       | 90                   |                           |                          | 5.23                    | 34.84                  | 75.74                          | 86.09            | -10.36              |
| 5850.00        | 31.17                      | 150                       | 180                  |                           |                          | 5.32                    | 34.91                  | 71.40                          | 84.37            | -12.97              |

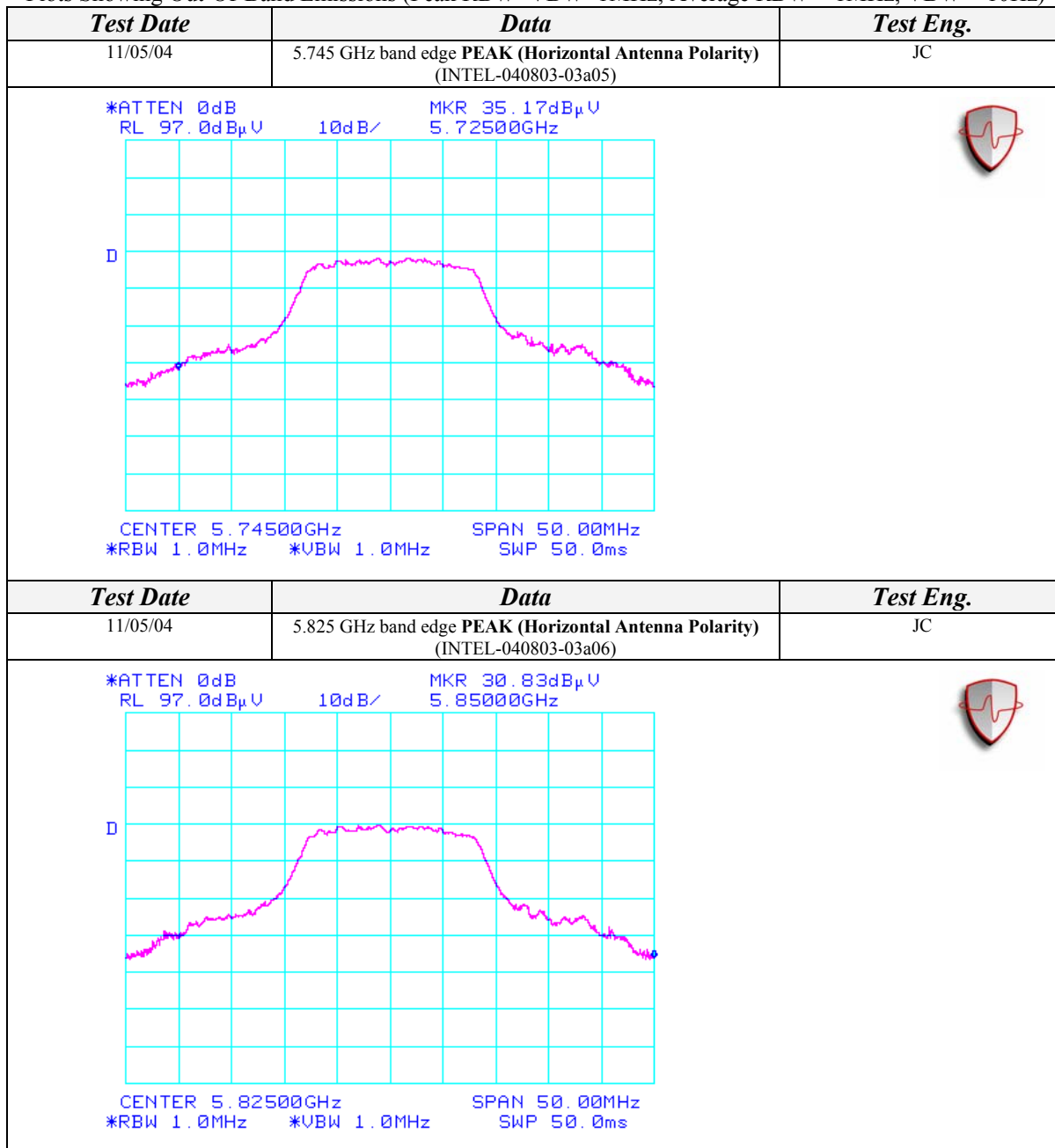
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



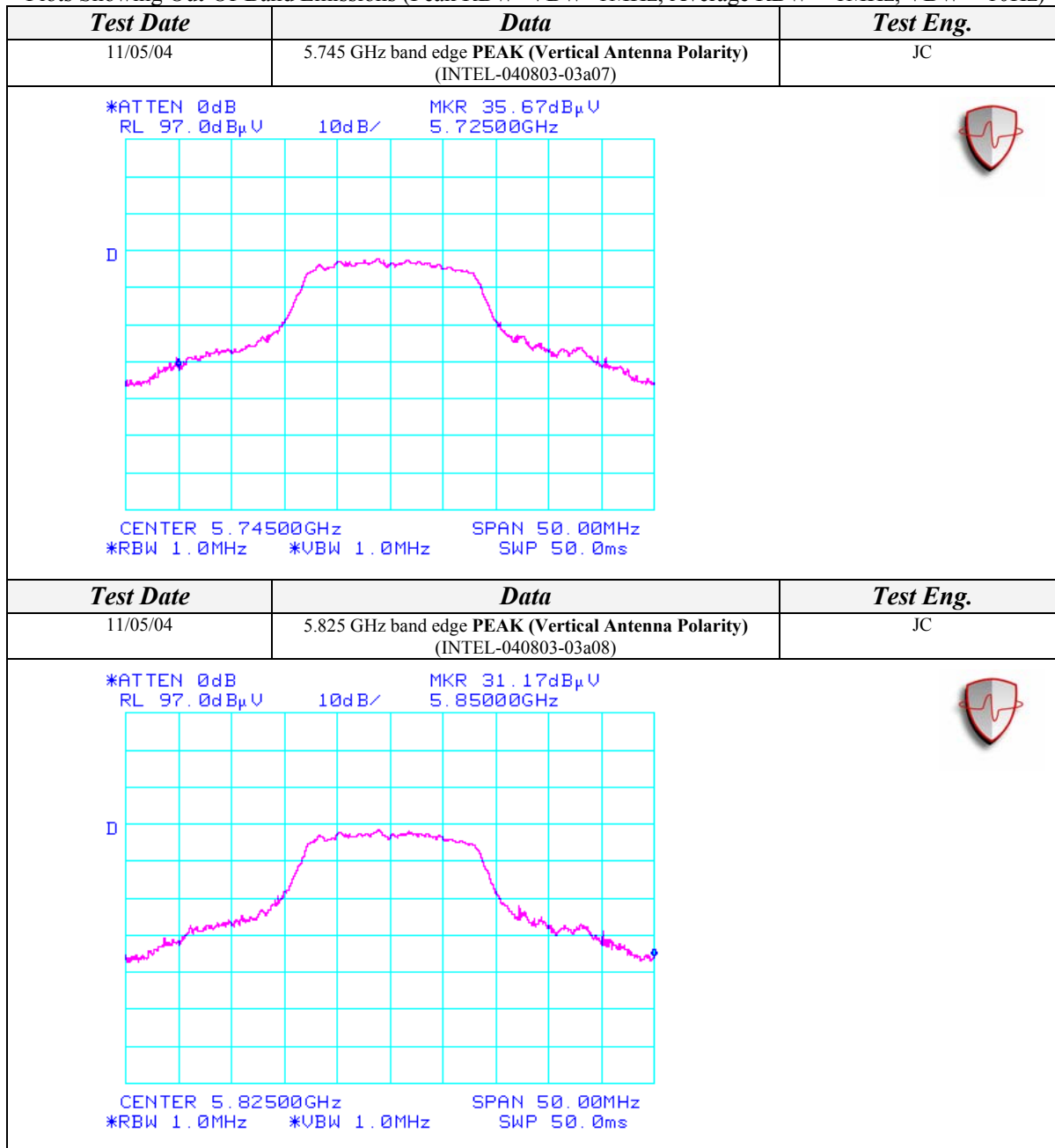
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



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## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5745-5825 MHz)  
Channels 149, 157, & 169  
Continuous TX at MAIN Antenna port with WNC (Acer Solution 2) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-21*

| RADIATED EMISSIONS - Horizontal Antenna Polarization              |                            |                           |                      |                           |   |                                |                         |                        |                                |                  |                     |
|-------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                                    | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamplifier<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| <b>EUT in Continuous Transmit Mode on Channel 149 (5.745 GHz)</b> |                            |                           |                      |                           |   |                                |                         |                        |                                |                  |                     |
| 3830.00                                                           | 57.17                      | 200                       | 180                  |                           |   | 43.17                          | 4.18                    | 31.16                  | 49.34                          | 74.00            | -24.66              |
| 3830.00                                                           |                            |                           |                      | 53.39                     | A | 43.17                          | 4.18                    | 31.16                  | 45.56                          | 54.00            | -8.44               |
| 7660.00                                                           | 53.50                      | 100                       | 135                  |                           |   | 43.62                          | 6.27                    | 40.05                  | 56.20                          | 74.00            | -17.80              |
| 7660.00                                                           |                            |                           |                      | 46.78                     | A | 43.62                          | 6.27                    | 40.05                  | 49.48                          | 54.00            | -4.52               |
| 11490.00                                                          | 52.00                      | 100                       | 135                  |                           |   | 43.50                          | 7.64                    | 41.18                  | 57.32                          | 74.00            | -16.68              |
| 11490.00                                                          |                            |                           |                      | 41.71                     | A | 43.50                          | 7.64                    | 41.18                  | 47.03                          | 54.00            | -6.97               |
| 15319.89                                                          | 49.17                      | 100                       | 135                  |                           |   | 43.39                          | 8.80                    | 41.49                  | 56.07                          | 89.09            | -33.02              |
| <b>EUT in Continuous Transmit Mode on Channel 157 (5.785 GHz)</b> |                            |                           |                      |                           |   |                                |                         |                        |                                |                  |                     |
| 3856.66                                                           | 60.00                      | 100                       | 180                  |                           |   | 43.17                          | 4.21                    | 31.23                  | 52.26                          | 74.00            | -21.74              |
| 3856.66                                                           |                            |                           |                      | 57.39                     | A | 43.17                          | 4.21                    | 31.23                  | 49.65                          | 54.00            | -4.35               |
| 7713.33                                                           | 53.17                      | 100                       | 135                  |                           |   | 43.60                          | 6.29                    | 40.20                  | 56.06                          | 74.00            | -17.94              |
| 7713.33                                                           |                            |                           |                      | 45.68                     | A | 43.60                          | 6.29                    | 40.20                  | 48.57                          | 54.00            | -5.43               |
| 11569.98                                                          | 50.67                      | 100                       | 135                  |                           |   | 43.48                          | 7.66                    | 41.38                  | 56.24                          | 74.00            | -17.76              |
| 11569.98                                                          |                            |                           |                      | 39.46                     | A | 43.48                          | 7.66                    | 41.38                  | 45.03                          | 54.00            | -8.97               |
| 15426.58                                                          | 49.17                      | 100                       | 135                  |                           |   | 43.35                          | 8.80                    | 41.56                  | 56.18                          | 74.00            | -17.82              |
| 15426.58                                                          |                            |                           |                      | 36.94                     | A | 43.35                          | 8.80                    | 41.56                  | 43.95                          | 54.00            | -10.05              |
| <b>EUT in Continuous Transmit Mode on Channel 165 (5.825 GHz)</b> |                            |                           |                      |                           |   |                                |                         |                        |                                |                  |                     |
| 3883.34                                                           | 61.50                      | 100                       | 180                  |                           |   | 43.17                          | 4.23                    | 31.30                  | 53.85                          | 74.00            | -20.15              |
| 3883.34                                                           |                            |                           |                      | 59.16                     | A | 43.17                          | 4.23                    | 31.30                  | 51.51                          | 54.00            | -2.49               |
| 7766.66                                                           | 53.83                      | 100                       | 135                  |                           |   | 43.58                          | 6.32                    | 40.35                  | 56.91                          | 87.37            | -30.46              |
| 11650.00                                                          | 50.17                      | 100                       | 135                  |                           |   | 43.45                          | 7.69                    | 41.59                  | 56.00                          | 74.00            | -18.00              |
| 11650.00                                                          |                            |                           |                      | 39.10                     | A | 43.45                          | 7.69                    | 41.59                  | 44.93                          | 54.00            | -9.07               |
| 15533.23                                                          | 49.50                      | 100                       | 135                  |                           |   | 43.35                          | 8.82                    | 41.71                  | 56.68                          | 74.00            | -17.32              |
| 15533.23                                                          |                            |                           |                      | 37.26                     | A | 43.35                          | 8.82                    | 41.71                  | 44.44                          | 54.00            | -9.56               |

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## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization         |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                             | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 149 (5.745 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3830.00                                                    | 54.00                      | 100                       | 135                  |                           |   | 43.17                    | 4.18                    | 31.09                  | 46.11                          | 74.00            | -27.89              |
| 3830.00                                                    |                            |                           |                      | 48.38                     | A | 43.17                    | 4.18                    | 31.09                  | 40.49                          | 54.00            | -13.51              |
| 7660.00                                                    | 54.17                      | 100                       | 135                  |                           |   | 43.62                    | 6.27                    | 40.11                  | 56.94                          | 74.00            | -17.06              |
| 7660.00                                                    |                            |                           |                      | 47.69                     | A | 43.62                    | 6.27                    | 40.11                  | 50.46                          | 54.00            | -3.54               |
| 11490.00                                                   | 50.33                      | 100                       | 135                  |                           |   | 43.50                    | 7.64                    | 41.66                  | 56.13                          | 74.00            | -17.87              |
| 11490.00                                                   |                            |                           |                      | 39.48                     | A | 43.50                    | 7.64                    | 41.66                  | 45.28                          | 54.00            | -8.72               |
| EUT in Continuous Transmit Mode on Channel 157 (5.785 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3856.66                                                    | 56.17                      | 100                       | 135                  |                           |   | 43.17                    | 4.21                    | 31.14                  | 48.35                          | 74.00            | -25.65              |
| 3856.66                                                    |                            |                           |                      | 51.99                     | A | 43.17                    | 4.21                    | 31.14                  | 44.17                          | 54.00            | -9.83               |
| 7713.33                                                    | 53.00                      | 200                       | 135                  |                           |   | 43.60                    | 6.29                    | 40.28                  | 55.98                          | 74.00            | -18.02              |
| 7713.33                                                    |                            |                           |                      | 46.21                     | A | 43.60                    | 6.29                    | 40.28                  | 49.19                          | 54.00            | -4.81               |
| 11569.98                                                   | 50.50                      | 100                       | 135                  |                           |   | 43.48                    | 7.66                    | 41.81                  | 56.50                          | 74.00            | -17.50              |
| 11569.98                                                   |                            |                           |                      | 38.54                     | A | 43.48                    | 7.66                    | 41.81                  | 44.54                          | 54.00            | -9.46               |
| EUT in Continuous Transmit Mode on Channel 165 (5.825 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3883.33                                                    | 55.83                      | 100                       | 135                  |                           |   | 43.17                    | 4.23                    | 31.19                  | 48.08                          | 74.00            | -25.92              |
| 3883.33                                                    |                            |                           |                      | 51.08                     | A | 43.17                    | 4.23                    | 31.19                  | 43.33                          | 54.00            | -10.67              |
| 7766.66                                                    | 53.67                      | 200                       | 135                  |                           |   | 43.58                    | 6.32                    | 40.45                  | 56.86                          | 84.37            | -27.51              |
| 11650.00                                                   | 49.67                      | 100                       | 135                  |                           |   | 43.45                    | 7.69                    | 41.94                  | 55.85                          | 74.00            | -18.15              |
| 11650.00                                                   |                            |                           |                      | 38.46                     | A | 43.45                    | 7.69                    | 41.94                  | 44.64                          | 54.00            | -9.36               |

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## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5745-5825 MHz)  
Channels 149, 157, & 169  
Continuous RX at MAIN Antenna port with WNC (Acer Solution 2) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-21*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Receive Mode on Channel 149 (5.745 GHz)</b> |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3830.00                                                          | 51.33                      | 100                       | 225                  |                           |                          | 43.17                   | 4.18                   | 31.16                          | 43.50            | 80.00 -36.50        |
| 3830.00                                                          |                            |                           |                      | 42.36                     | A                        | 43.17                   | 4.18                   | 31.16                          | 34.53            | 60.00 -25.47        |
| 7660.00                                                          | 53.50                      | 100                       | 135                  |                           |                          | 43.62                   | 6.27                   | 40.05                          | 56.20            | 80.00 -23.80        |
| 7660.00                                                          |                            |                           |                      | 47.51                     | A                        | 43.62                   | 6.27                   | 40.05                          | 50.21            | 60.00 -9.79         |
| 11489.92                                                         | 51.00                      | 100                       | 135                  |                           |                          | 43.50                   | 7.64                   | 41.18                          | 56.32            | 80.00 -23.68        |
| 11489.92                                                         |                            |                           |                      | 41.08                     | A                        | 43.50                   | 7.64                   | 41.18                          | 46.40            | 60.00 -13.60        |
| <b>EUT in Continuous Receive Mode on Channel 157 (5.785 GHz)</b> |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3856.62                                                          | 51.83                      | 100                       | 135                  |                           |                          | 43.17                   | 4.21                   | 31.23                          | 44.09            | 80.00 -35.91        |
| 3856.62                                                          |                            |                           |                      | 43.33                     | A                        | 43.17                   | 4.21                   | 31.23                          | 35.59            | 60.00 -24.41        |
| 7713.32                                                          | 53.83                      | 100                       | 135                  |                           |                          | 43.60                   | 6.29                   | 40.20                          | 56.72            | 80.00 -23.28        |
| 7713.32                                                          |                            |                           |                      | 47.91                     | A                        | 43.60                   | 6.29                   | 40.20                          | 50.80            | 60.00 -9.20         |
| 11569.92                                                         | 50.83                      | 100                       | 135                  |                           |                          | 43.48                   | 7.66                   | 41.38                          | 56.40            | 80.00 -23.60        |
| 11569.92                                                         |                            |                           |                      | 40.77                     | A                        | 43.48                   | 7.66                   | 41.38                          | 46.34            | 60.00 -13.66        |
| <b>EUT in Continuous Receive Mode on Channel 165 (5.825 GHz)</b> |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3883.34                                                          | 52.17                      | 100                       | 135                  |                           |                          | 43.17                   | 4.23                   | 31.30                          | 44.52            | 80.00 -35.48        |
| 3883.34                                                          |                            |                           |                      | 44.68                     | A                        | 43.17                   | 4.23                   | 31.30                          | 37.03            | 60.00 -22.97        |
| 7766.62                                                          | 54.50                      | 100                       | 135                  |                           |                          | 43.58                   | 6.32                   | 40.35                          | 57.58            | 80.00 -22.42        |
| 7766.62                                                          |                            |                           |                      | 48.76                     | A                        | 43.58                   | 6.32                   | 40.35                          | 51.84            | 60.00 -8.16         |
| 11649.94                                                         | 51.67                      | 100                       | 135                  |                           |                          | 43.45                   | 7.69                   | 41.59                          | 57.50            | 80.00 -22.50        |
| 11649.94                                                         |                            |                           |                      | 41.47                     | A                        | 43.45                   | 7.69                   | 41.59                          | 47.30            | 60.00 -12.70        |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization               |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| <b>EUT in Continuous Receive Mode on Channel 149 (5.745 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3830.00                                                          | 50.50                      | 100                       | 135                  |                           |   | 43.17                    | 4.18                    | 31.16                  | 42.67                          | 80.00            | -37.33              |
| 3830.00                                                          |                            |                           |                      | 41.74                     | A | 43.17                    | 4.18                    | 31.16                  | 33.91                          | 60.00            | -26.09              |
| 7660.00                                                          | 49.67                      | 100                       | 135                  |                           |   | 43.62                    | 6.27                    | 40.05                  | 52.37                          | 80.00            | -27.63              |
| 7660.00                                                          |                            |                           |                      | 39.93                     | A | 43.62                    | 6.27                    | 40.05                  | 42.63                          | 60.00            | -17.37              |
| 11489.92                                                         | 50.50                      | 100                       | 135                  |                           |   | 43.50                    | 7.64                    | 41.18                  | 55.82                          | 80.00            | -24.18              |
| 11489.92                                                         |                            |                           |                      | 39.79                     | A | 43.50                    | 7.64                    | 41.18                  | 45.11                          | 60.00            | -14.89              |
| <b>EUT in Continuous Receive Mode on Channel 157 (5.785 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3856.65                                                          | 50.83                      | 100                       | 135                  |                           |   | 43.17                    | 4.21                    | 31.14                  | 43.01                          | 80.00            | -36.99              |
| 3856.65                                                          |                            |                           |                      | 41.81                     | A | 43.17                    | 4.21                    | 31.14                  | 33.99                          | 60.00            | -26.01              |
| 7713.29                                                          | 50.17                      | 100                       | 135                  |                           |   | 43.60                    | 6.29                    | 40.28                  | 53.15                          | 80.00            | -26.85              |
| 7713.29                                                          |                            |                           |                      | 40.19                     | A | 43.60                    | 6.29                    | 40.28                  | 43.17                          | 60.00            | -16.83              |
| 11569.91                                                         | 49.67                      | 100                       | 135                  |                           |   | 43.48                    | 7.66                    | 41.81                  | 55.67                          | 80.00            | -24.33              |
| 11569.91                                                         |                            |                           |                      | 38.62                     | A | 43.48                    | 7.66                    | 41.81                  | 44.62                          | 60.00            | -15.38              |
| <b>EUT in Continuous Receive Mode on Channel 165 (5.825 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3883.35                                                          | 51.00                      | 100                       | 135                  |                           |   | 43.17                    | 4.23                    | 31.19                  | 43.25                          | 80.00            | -36.75              |
| 3883.35                                                          |                            |                           |                      | 40.96                     | A | 43.17                    | 4.23                    | 31.19                  | 33.21                          | 60.00            | -26.79              |
| 7766.63                                                          | 50.50                      | 100                       | 135                  |                           |   | 43.58                    | 6.32                    | 40.45                  | 53.69                          | 80.00            | -26.31              |
| 7766.63                                                          |                            |                           |                      | 40.78                     | A | 43.58                    | 6.32                    | 40.45                  | 43.97                          | 60.00            | -16.03              |
| 11649.97                                                         | 51.17                      | 100                       | 135                  |                           |   | 43.45                    | 7.69                    | 41.94                  | 57.35                          | 80.00            | -22.65              |
| 11649.97                                                         |                            |                           |                      | 40.59                     | A | 43.45                    | 7.69                    | 41.94                  | 46.77                          | 60.00            | -13.23              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

|                       |                                                                                                                                                       |                        |              |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                                                     | <b>DATE:</b>           | 11/05/04     |
| <b>EUT:</b>           | Intel PRO/Wireless 2915ABG Network Connection                                                                                                         | <b>PROJECT NUMBER:</b> | INTEL-041021 |
| <b>MODEL NUMBER:</b>  | WM3B2915ABG                                                                                                                                           | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 344F96244ABC51962012                                                                                                                                  | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in the Hewlett Packard host computer's mini PCI slot in <b>802.11b (2412-2462 MHz) mode with the WNC (Acer Solution 2) antennas.</b> | <b>TEMPERATURE:</b>    | 21 C         |
|                       |                                                                                                                                                       | <b>HUMIDITY:</b>       | 32% RH       |
|                       |                                                                                                                                                       | <b>TIME:</b>           | 12:00 PM     |

|                     |                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard:</b>    | FCC CFR 47, Part 15.247(c)                                                                                                                                                                         |
| <b>Description:</b> | Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc. |
| <b>Results:</b>     | Passes (See Data Sheets)                                                                                                                                                                           |

| Unwanted Spurious Emissions Limits |                       |                                                                |                                                                      |
|------------------------------------|-----------------------|----------------------------------------------------------------|----------------------------------------------------------------------|
| Frequency (MHz)                    | Field Strength (uV/m) | Field Strength (dBuV/m)<br>(Emissions in the restricted bands) | Field Strength (dBm/MHz)<br>(Emissions outside the restricted bands) |
| Above 960                          | 500                   | 54.00 (Average)<br>74.00 (Peak)                                | < -20 dBc                                                            |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11b mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with WNC (Acer Solution 2) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-19*

| RADIATED EMISSIONS - Horizontal Antenna Polarization |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                       | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| 2412.00                                              | 73.17                      | 100                       | 90                   |                           |   |                          | 3.30                    | 31.11                  | 107.58                         |                  |                     |
| 2412.00                                              |                            |                           |                      | 69.80                     | A |                          | 3.30                    | 31.11                  | 104.21                         |                  |                     |
| 2437.00                                              | 74.67                      | 100                       | 90                   |                           |   |                          | 3.32                    | 31.05                  | 109.04                         |                  |                     |
| 2437.00                                              |                            |                           |                      | 71.21                     | A |                          | 3.32                    | 31.05                  | 105.58                         |                  |                     |
| 2462.00                                              | 75.33                      | 100                       | 135                  |                           |   |                          | 3.34                    | 30.99                  | 109.66                         |                  |                     |
| 2462.00                                              |                            |                           |                      | 71.83                     | A |                          | 3.34                    | 30.99                  | 106.16                         |                  |                     |

| RADIATED EMISSIONS – Vertical Antenna Polarization |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|----------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                     | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| 2412.00                                            | 72.00                      | 125                       | 135                  |                           |   |                          | 3.30                    | 31.24                  | 106.54                         |                  |                     |
| 2412.00                                            |                            |                           |                      | 67.14                     | A |                          | 3.30                    | 31.24                  | 101.68                         |                  |                     |
| 2437.00                                            | 75.83                      | 150                       | 90                   |                           |   |                          | 3.32                    | 31.20                  | 110.35                         |                  |                     |
| 2437.00                                            |                            |                           |                      | 72.49                     | A |                          | 3.32                    | 31.20                  | 107.01                         |                  |                     |
| 2462.00                                            | 75.83                      | 150                       | 90                   |                           |   |                          | 3.34                    | 31.16                  | 110.33                         |                  |                     |
| 2462.00                                            |                            |                           |                      | 72.51                     | A |                          | 3.34                    | 31.16                  | 107.01                         |                  |                     |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11b mode (2412-2462 MHz)*  
*Channels 1, 6, & 11*  
*Continuous TX at MAIN Antenna port with WNC (Acer Solution 2) Antennas*  
*Aegis Labs, Inc. File #: INTEL-041021-19*

| RADIATED EMISSIONS - Horizontal Antenna Polarization |                            |                           |                      |                           |  |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|--|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                       | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |  | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| 2390.00                                              |                            |                           |                      |                           |  |                          |                         |                        | 53.41                          | 74.00            | -20.59              |
| 2390.00                                              |                            |                           |                      |                           |  |                          |                         |                        | 41.87                          | 54.00            | -12.13              |
| 2359.80                                              |                            |                           |                      |                           |  |                          |                         |                        | 55.75                          | 74.00            | -18.25              |
| 2359.80                                              |                            |                           |                      |                           |  |                          |                         |                        | 42.87                          | 54.00            | -11.13              |
| 2400.00                                              | 40.33                      | 100                       | 90                   |                           |  |                          | 3.29                    | 31.14                  | 74.76                          | 87.58            | -12.82              |
| 2483.50                                              |                            |                           |                      |                           |  |                          |                         |                        | 55.16                          | 74.00            | -18.84              |
| 2483.50                                              |                            |                           |                      |                           |  |                          |                         |                        | 43.83                          | 54.00            | -10.17              |
| 2520.70                                              |                            |                           |                      |                           |  |                          |                         |                        | 56.00                          | 74.00            | -18.00              |
| 2520.70                                              |                            |                           |                      |                           |  |                          |                         |                        | 44.66                          | 54.00            | -9.34               |
| RADIATED EMISSIONS – Vertical Antenna Polarization   |                            |                           |                      |                           |  |                          |                         |                        |                                |                  |                     |
| Freq.<br>(MHz)                                       | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |  | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| 2390.00                                              |                            |                           |                      |                           |  |                          |                         |                        | 52.37                          | 74.00            | -21.63              |
| 2390.00                                              |                            |                           |                      |                           |  |                          |                         |                        | 39.34                          | 54.00            | -14.66              |
| 2359.80                                              |                            |                           |                      |                           |  |                          |                         |                        | 54.71                          | 74.00            | -19.29              |
| 2359.80                                              |                            |                           |                      |                           |  |                          |                         |                        | 40.34                          | 54.00            | -13.66              |
| 2400.00                                              | 38.67                      | 125                       | 135                  |                           |  |                          | 3.29                    | 31.26                  | 73.22                          | 86.54            | -13.32              |
| 2483.50                                              |                            |                           |                      |                           |  |                          |                         |                        | 55.83                          | 74.00            | -18.17              |
| 2483.50                                              |                            |                           |                      |                           |  |                          |                         |                        | 44.68                          | 54.00            | -9.32               |
| 2520.70                                              |                            |                           |                      |                           |  |                          |                         |                        | 56.67                          | 74.00            | -17.33              |
| 2520.70                                              |                            |                           |                      |                           |  |                          |                         |                        | 45.51                          | 54.00            | -8.49               |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = F_m - \Delta m$$

Where

BE = Band Edge Field Strength

F<sub>m</sub> = Measured Fundamental (Peak or Average)

Δm = Measured Conducted Band Edge Delta (Peak or Average)

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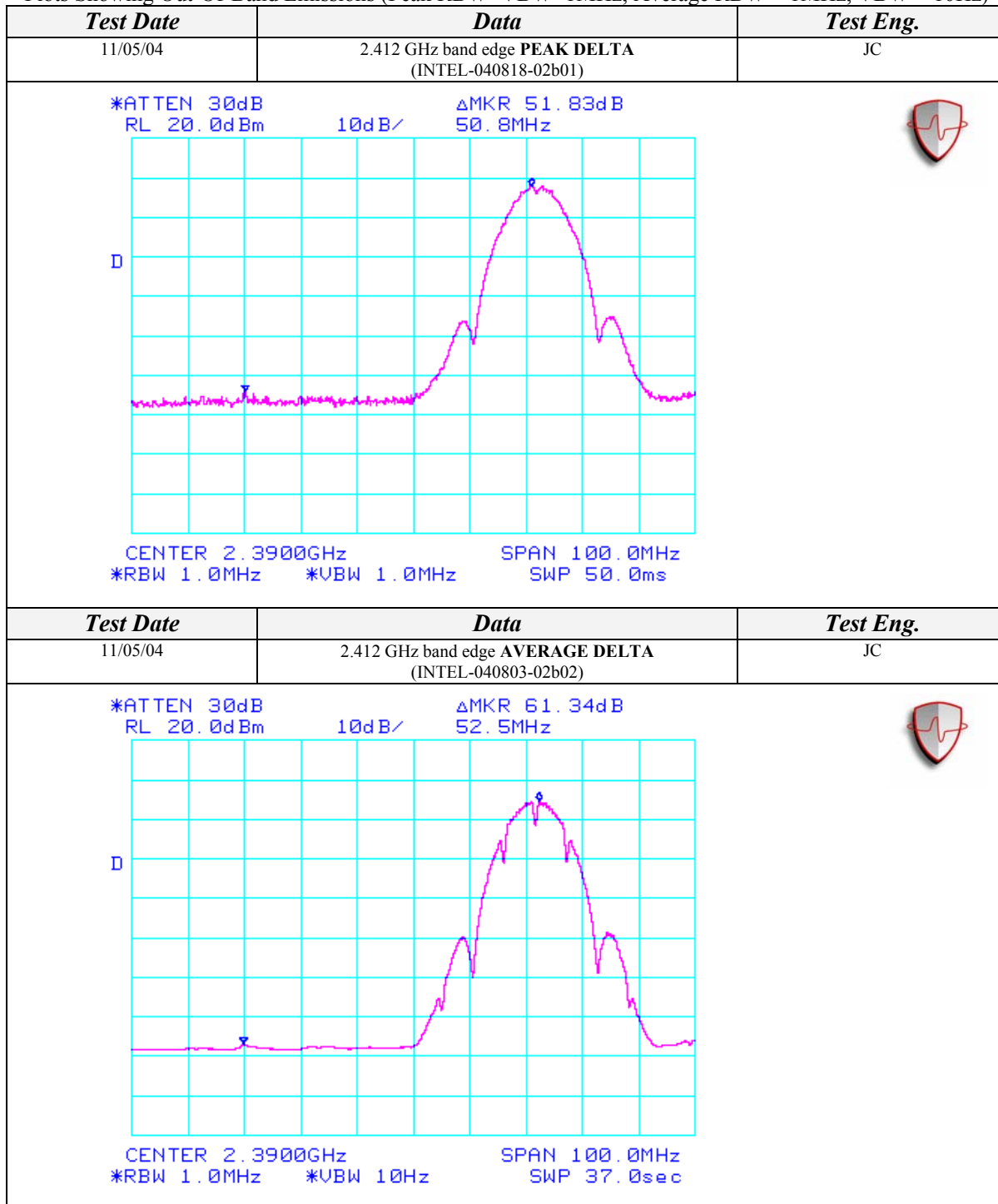
FCC ID: PD9WM3B2915ABG



AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



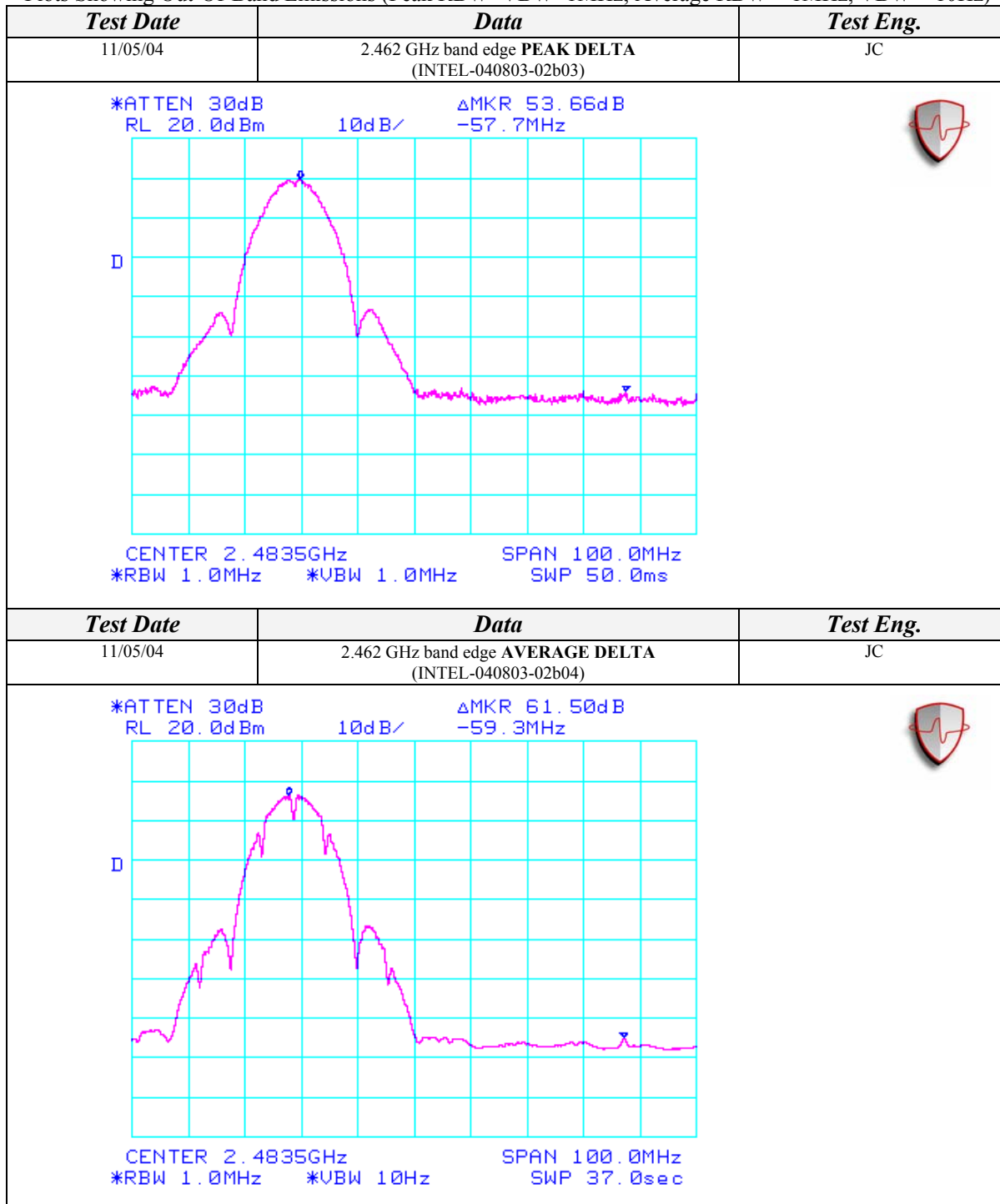
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11b mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with WNC (Acer Solution 2) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-20*

| RADIATED EMISSIONS - Horizontal Antenna Polarization      |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
|-----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|---------------------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | 1 Meter<br>Distance<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2312.00                                                   | 31.00                      | 100                       | 45                   |                           |   | 9.54                                  | 3.23                    | 31.35                  | 56.04                          | 74.00            | -17.96              |
| 2312.00                                                   |                            |                           |                      | 15.46                     | A | 9.54                                  | 3.23                    | 31.35                  | 40.50                          | 54.00            | -13.50              |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2336.00                                                   | 32.17                      | 100                       | 45                   |                           |   | 9.54                                  | 3.25                    | 31.29                  | 57.17                          | 74.00            | -16.83              |
| 2336.00                                                   |                            |                           |                      | 16.50                     | A | 9.54                                  | 3.25                    | 31.29                  | 41.50                          | 54.00            | -12.50              |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2358.66                                                   | 32.00                      | 100                       | 45                   |                           |   | 9.54                                  | 3.26                    | 31.24                  | 56.96                          | 74.00            | -17.04              |
| 2358.66                                                   |                            |                           |                      | 15.19                     | A | 9.54                                  | 3.26                    | 31.24                  | 40.15                          | 54.00            | -13.85              |
| RADIATED EMISSIONS - Vertical Antenna Polarization        |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | 1 Meter<br>Distance<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2312.00                                                   | 32.83                      | 100                       | 90                   |                           |   | 9.54                                  | 3.23                    | 31.40                  | 57.92                          | 74.00            | -16.08              |
| 2312.00                                                   |                            |                           |                      | 20.41                     | A | 9.54                                  | 3.23                    | 31.40                  | 45.50                          | 54.00            | -8.50               |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2336.00                                                   | 31.67                      | 100                       | 90                   |                           |   | 9.54                                  | 3.25                    | 31.36                  | 56.74                          | 74.00            | -17.26              |
| 2336.00                                                   |                            |                           |                      | 16.87                     | A | 9.54                                  | 3.25                    | 31.36                  | 41.94                          | 54.00            | -12.06              |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2358.66                                                   | 31.33                      | 100                       | 45                   |                           |   | 9.54                                  | 3.26                    | 31.33                  | 56.38                          | 74.00            | -17.62              |
| 2358.66                                                   |                            |                           |                      | 16.09                     | A | 9.54                                  | 3.26                    | 31.33                  | 41.14                          | 54.00            | -12.86              |

NOTE: These spurious emissions measurements were taken without a preamp at a distance on 1 meter to avoid saturating the preamp and analyzer because the signals were close to the fundamental frequency. The readings were extrapolated to 1 meter.

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FCC ID: PD9WM3B2915ABG



AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11b mode (2412-2462 MHz)*  
*Channels 1, 6, & 11*  
**Continuous TX at MAIN Antenna port with WNC (Acer Solution 2) Antennas**  
*Aegis Labs, Inc. File #: INTEL-041021-21*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                          | 50.83                      | 100                       | 225                  |                           |   | 43.07                    | 3.89                    | 30.24                  | 41.89                          | 87.58            | -45.69              |
| 4824.01                                                          | 49.50                      | 100                       | 135                  |                           |   | 43.27                    | 4.73                    | 34.53                  | 45.49                          | 74.00            | -28.51              |
| 4824.01                                                          |                            |                           |                      | 38.69                     | A | 43.27                    | 4.73                    | 34.53                  | 34.68                          | 54.00            | -19.32              |
| 6431.98                                                          | 58.33                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 56.89                          | 87.58            | -30.69              |
| 9648.01                                                          | 49.83                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.88                  | 52.44                          | 87.58            | -35.14              |
| 12864.03                                                         | 50.17                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 43.86                  | 58.16                          | 87.58            | -29.42              |
| <b>EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.32                                                          | 50.67                      | 100                       | 225                  |                           |   | 43.08                    | 3.91                    | 30.25                  | 41.74                          | 89.04            | -47.30              |
| 4873.99                                                          | 56.50                      | 100                       | 135                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 52.70                          | 74.00            | -21.30              |
| 4873.99                                                          |                            |                           |                      | 52.83                     | A | 43.29                    | 4.77                    | 34.72                  | 49.03                          | 54.00            | -4.97               |
| 6498.69                                                          | 60.33                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.90                  | 59.16                          | 89.04            | -29.88              |
| 9747.96                                                          | 53.00                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.00                  | 55.73                          | 89.04            | -33.31              |
| 12997.37                                                         | 50.00                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.29                  | 58.48                          | 89.04            | -30.56              |
| <b>EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.69                                                          | 49.50                      | 100                       | 225                  |                           |   | 43.10                    | 3.91                    | 30.26                  | 40.57                          | 89.66            | -49.09              |
| 4924.00                                                          | 60.83                      | 100                       | 135                  |                           |   | 43.30                    | 4.81                    | 34.91                  | 57.24                          | 74.00            | -16.76              |
| 4924.00                                                          |                            |                           |                      | 57.39                     | A | 43.30                    | 4.81                    | 34.91                  | 53.80                          | 54.00            | -0.20               |
| 6565.34                                                          | 56.83                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.32                  | 56.14                          | 89.66            | -33.52              |
| 9848.01                                                          | 53.50                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.12                  | 56.36                          | 89.66            | -33.30              |
| 13130.67                                                         | 49.00                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.25                  | 57.62                          | 89.66            | -32.04              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization        |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|-----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                   | 49.00                      | 100                       | 225                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 40.26                          | 86.54            | -46.28              |
| 4823.98                                                   | 49.67                      | 100                       | 135                  |                           |   | 43.27                    | 4.73                    | 34.53                  | 45.66                          | 74.00            | -28.34              |
| 4823.98                                                   |                            |                           |                      | 38.12                     | A | 43.27                    | 4.73                    | 34.53                  | 34.11                          | 54.00            | -19.89              |
| 6431.95                                                   | 55.00                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 53.56                          | 86.54            | -32.98              |
| 9647.98                                                   | 49.50                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 52.20                          | 86.54            | -34.34              |
| 12864.01                                                  | 50.00                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 44.23                  | 58.35                          | 86.54            | -28.19              |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.32                                                   | 48.83                      | 100                       | 225                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 40.10                          | 90.35            | -50.25              |
| 4874.01                                                   | 57.67                      | 100                       | 270                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 53.87                          | 74.00            | -20.13              |
| 4874.01                                                   |                            |                           |                      | 54.71                     | A | 43.29                    | 4.77                    | 34.72                  | 50.91                          | 54.00            | -3.09               |
| 6498.66                                                   | 57.33                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.89                  | 56.16                          | 90.35            | -34.19              |
| 9748.04                                                   | 53.50                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.15                  | 56.38                          | 90.35            | -33.97              |
| 12997.35                                                  | 49.17                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.49                  | 57.85                          | 90.35            | -32.50              |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.66                                                   | 48.50                      | 100                       | 180                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 39.77                          | 90.33            | -50.56              |
| 4924.00                                                   | 60.33                      | 200                       | 270                  |                           |   | 43.30                    | 4.81                    | 34.91                  | 56.74                          | 74.00            | -17.26              |
| 4924.00                                                   |                            |                           |                      | 57.06                     | A | 43.30                    | 4.81                    | 34.91                  | 53.47                          | 54.00            | -0.53               |
| 6565.32                                                   | 54.83                      | 100                       | 90                   |                           |   | 43.84                    | 5.83                    | 37.38                  | 54.20                          | 90.33            | -36.13              |
| 9847.96                                                   | 54.50                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.33                  | 57.57                          | 90.33            | -32.76              |
| 13130.63                                                  | 49.33                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.45                  | 58.15                          | 90.33            | -32.18              |



AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in in802.11b mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous RX at MAIN Antenna port with WNC (Acer Solution 2) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-21*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                  | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|-----------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3216.02                                                         | 52.00                      | 100                       | 225                  |                           |                          | 43.07                   | 3.89                   | 30.24                          | 43.06            | 80.00 -36.94        |
| 3216.02                                                         |                            |                           |                      | 46.12                     | A                        | 43.07                   | 3.89                   | 30.24                          | 37.18            | 60.00 -22.82        |
| 6432.00                                                         | 58.83                      | 100                       | 135                  |                           |                          | 43.82                   | 5.73                   | 36.64                          | 57.39            | 80.00 -22.61        |
| 6432.00                                                         |                            |                           |                      | 56.04                     | A                        | 43.82                   | 5.73                   | 36.64                          | 54.60            | 60.00 -5.40         |
| 9648.01                                                         | 50.33                      | 100                       | 135                  |                           |                          | 43.22                   | 6.95                   | 38.88                          | 52.94            | 80.00 -27.06        |
| 9648.01                                                         |                            |                           |                      | 39.20                     | A                        | 43.22                   | 6.95                   | 38.88                          | 41.81            | 60.00 -18.19        |
| <b>EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3249.32                                                         | 51.33                      | 100                       | 225                  |                           |                          | 43.08                   | 3.91                   | 30.25                          | 42.40            | 80.00 -37.60        |
| 3249.32                                                         |                            |                           |                      | 45.26                     | A                        | 43.08                   | 3.91                   | 30.25                          | 36.33            | 60.00 -23.67        |
| 6498.70                                                         | 59.83                      | 100                       | 135                  |                           |                          | 43.84                   | 5.78                   | 36.90                          | 58.66            | 80.00 -21.34        |
| 6498.70                                                         |                            |                           |                      | 57.08                     | A                        | 43.84                   | 5.78                   | 36.90                          | 55.91            | 60.00 -4.09         |
| 9747.99                                                         | 50.17                      | 100                       | 135                  |                           |                          | 43.25                   | 6.99                   | 39.00                          | 52.90            | 80.00 -27.10        |
| 9747.99                                                         |                            |                           |                      | 39.30                     | A                        | 43.25                   | 6.99                   | 39.00                          | 42.03            | 60.00 -17.97        |
| <b>EUT in Continuous Receive Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3282.66                                                         | 51.67                      | 100                       | 225                  |                           |                          | 43.10                   | 3.91                   | 30.26                          | 42.74            | 80.00 -37.26        |
| 3282.66                                                         |                            |                           |                      | 44.65                     | A                        | 43.10                   | 3.91                   | 30.26                          | 35.72            | 60.00 -24.28        |
| 6565.32                                                         | 58.17                      | 100                       | 135                  |                           |                          | 43.84                   | 5.83                   | 37.32                          | 57.48            | 80.00 -22.52        |
| 6565.32                                                         |                            |                           |                      | 55.39                     | A                        | 43.84                   | 5.83                   | 37.32                          | 54.70            | 60.00 -5.30         |
| 9848.01                                                         | 51.50                      | 100                       | 135                  |                           |                          | 43.29                   | 7.03                   | 39.12                          | 54.36            | 80.00 -25.64        |
| 9848.01                                                         |                            |                           |                      | 40.10                     | A                        | 43.29                   | 7.03                   | 39.12                          | 42.96            | 60.00 -17.04        |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization              |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|-----------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                                  | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| <b>EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                         | 50.33                      | 100                       | 135                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 41.59                          | 80.00            | -38.41              |
| 3216.00                                                         |                            |                           |                      | 41.93                     | A | 43.07                    | 3.89                    | 30.44                  | 33.19                          | 60.00            | -26.81              |
| 6432.02                                                         | 58.83                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 57.39                          | 80.00            | -22.61              |
| 6432.02                                                         |                            |                           |                      | 55.67                     | A | 43.82                    | 5.73                    | 36.64                  | 54.23                          | 60.00            | -5.77               |
| 9648.02                                                         | 50.00                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 52.70                          | 80.00            | -27.30              |
| 9648.02                                                         |                            |                           |                      | 38.42                     | A | 43.22                    | 6.95                    | 38.97                  | 41.12                          | 60.00            | -18.88              |
| <b>EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.32                                                         | 50.00                      | 100                       | 135                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 41.27                          | 80.00            | -38.73              |
| 3249.32                                                         |                            |                           |                      | 41.45                     | A | 43.08                    | 3.91                    | 30.45                  | 32.72                          | 60.00            | -27.28              |
| 6498.67                                                         | 57.67                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.89                  | 56.50                          | 80.00            | -23.50              |
| 6498.67                                                         |                            |                           |                      | 54.02                     | A | 43.84                    | 5.78                    | 36.89                  | 52.85                          | 60.00            | -7.15               |
| 9748.00                                                         | 49.33                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.15                  | 52.21                          | 80.00            | -27.79              |
| 9748.00                                                         |                            |                           |                      | 38.17                     | A | 43.25                    | 6.99                    | 39.15                  | 41.05                          | 60.00            | -18.95              |
| <b>EUT in Continuous Receive Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.67                                                         | 49.83                      | 100                       | 135                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 41.10                          | 80.00            | -38.90              |
| 3282.67                                                         |                            |                           |                      | 40.40                     | A | 43.10                    | 3.91                    | 30.46                  | 31.67                          | 60.00            | -28.33              |
| 6565.32                                                         | 56.67                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.38                  | 56.04                          | 80.00            | -23.96              |
| 6565.32                                                         |                            |                           |                      | 52.81                     | A | 43.84                    | 5.83                    | 37.38                  | 52.18                          | 60.00            | -7.82               |
| 9847.98                                                         | 50.67                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.33                  | 53.74                          | 80.00            | -26.26              |
| 9847.98                                                         |                            |                           |                      | 38.54                     | A | 43.29                    | 7.03                    | 39.33                  | 41.61                          | 60.00            | -18.39              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

|                       |                                                                                                                                                      |                        |              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                                                    | <b>DATE:</b>           | 11/05/04     |
| <b>EUT:</b>           | Intel PRO/Wireless 2915ABG Network Connection                                                                                                        | <b>PROJECT NUMBER:</b> | INTEL-041021 |
| <b>MODEL NUMBER:</b>  | WM3B2915ABG                                                                                                                                          | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 344F96244ABC51962012                                                                                                                                 | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in the Hewlett Packard host computer's mini PCI slot in <b>802.11g (2412-2462 MHz) mode with the WNC (Acer Solution 2) antennas</b> | <b>TEMPERATURE:</b>    | 21 C         |
|                       |                                                                                                                                                      | <b>HUMIDITY:</b>       | 32% RH       |
|                       |                                                                                                                                                      | <b>TIME:</b>           | 12:00 PM     |

|                     |                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard:</b>    | FCC CFR 47, Part 15.247(c)                                                                                                                                                                         |
| <b>Description:</b> | Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc. |
| <b>Results:</b>     | Passes (See Data Sheets)                                                                                                                                                                           |

| Unwanted Spurious Emissions Limits |                       |                                                                |                                                                      |
|------------------------------------|-----------------------|----------------------------------------------------------------|----------------------------------------------------------------------|
| Frequency (MHz)                    | Field Strength (uV/m) | Field Strength (dBuV/m)<br>(Emissions in the restricted bands) | Field Strength (dBm/MHz)<br>(Emissions outside the restricted bands) |
| Above 960                          | 500                   | 54.00 (Average)<br>74.00 (Peak)                                | < -20 dBc                                                            |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11g mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with WNC (Acer Solution 2) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-19*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL |
|-------------|----------------------|---------------------|-------------------|------------------------|--------------------|-------------------|------------------|--------------------------|---------------|------------------|
| 2412.00     | 76.17                | 100                 | 135               |                        |                    | 3.30              | 31.11            | 110.58                   |               |                  |
| 2412.00     |                      |                     |                   | 65.31                  | A                  | 3.30              | 31.11            | 99.72                    |               |                  |
| 2437.00     | 77.17                | 100                 | 135               |                        |                    | 3.32              | 31.05            | 111.54                   |               |                  |
| 2437.00     |                      |                     |                   | 66.42                  | A                  | 3.32              | 31.05            | 100.79                   |               |                  |
| 2462.00     | 76.33                | 100                 | 135               |                        |                    | 3.34              | 30.99            | 110.66                   |               |                  |
| 2462.00     |                      |                     |                   | 65.54                  | A                  | 3.34              | 30.99            | 99.87                    |               |                  |

### RADIATED EMISSIONS – Vertical Antenna Polarization

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL |
|-------------|----------------------|---------------------|-------------------|------------------------|--------------------|-------------------|------------------|--------------------------|---------------|------------------|
| 2412.00     | 74.83                | 150                 | 90                |                        |                    | 3.30              | 31.24            | 109.37                   |               |                  |
| 2412.00     |                      |                     |                   | 64.65                  | A                  | 3.30              | 31.24            | 99.19                    |               |                  |
| 2437.00     | 73.33                | 150                 | 135               |                        |                    | 3.32              | 31.20            | 107.85                   |               |                  |
| 2437.00     |                      |                     |                   | 63.08                  | A                  | 3.32              | 31.20            | 97.60                    |               |                  |
| 2462.00     | 76.83                | 150                 | 90                |                        |                    | 3.34              | 31.16            | 111.33                   |               |                  |
| 2462.00     |                      |                     |                   | 65.91                  | A                  | 3.34              | 31.16            | 100.41                   |               |                  |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11g mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with WNC (Acer Solution 2) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-19*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 64.24                          | 74.00            | -9.76               |
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 49.05                          | 54.00            | -4.95               |
| 2400.00        | 52.00                      | 100                       | 135                  |                           |                          | 3.29                    | 31.14                  | 86.43                          | 90.58            | -4.15               |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 66.16                          | 74.00            | -7.84               |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 48.87                          | 54.00            | -5.13               |

### RADIATED EMISSIONS – Vertical Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 63.03                          | 74.00            | -10.97              |
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 48.52                          | 54.00            | -5.48               |
| 2400.00        | 50.83                      | 150                       | 90                   |                           |                          | 3.29                    | 31.26                  | 85.38                          | 89.37            | -3.99               |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 66.83                          | 74.00            | -7.17               |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 49.41                          | 54.00            | -4.59               |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = F_m - \Delta m$$

Where

BE = Band Edge Field Strength

F<sub>m</sub> = Measured Fundamental (Peak or Average)

Δ<sub>m</sub> = Measured Conducted Band Edge Delta (Peak or Average)

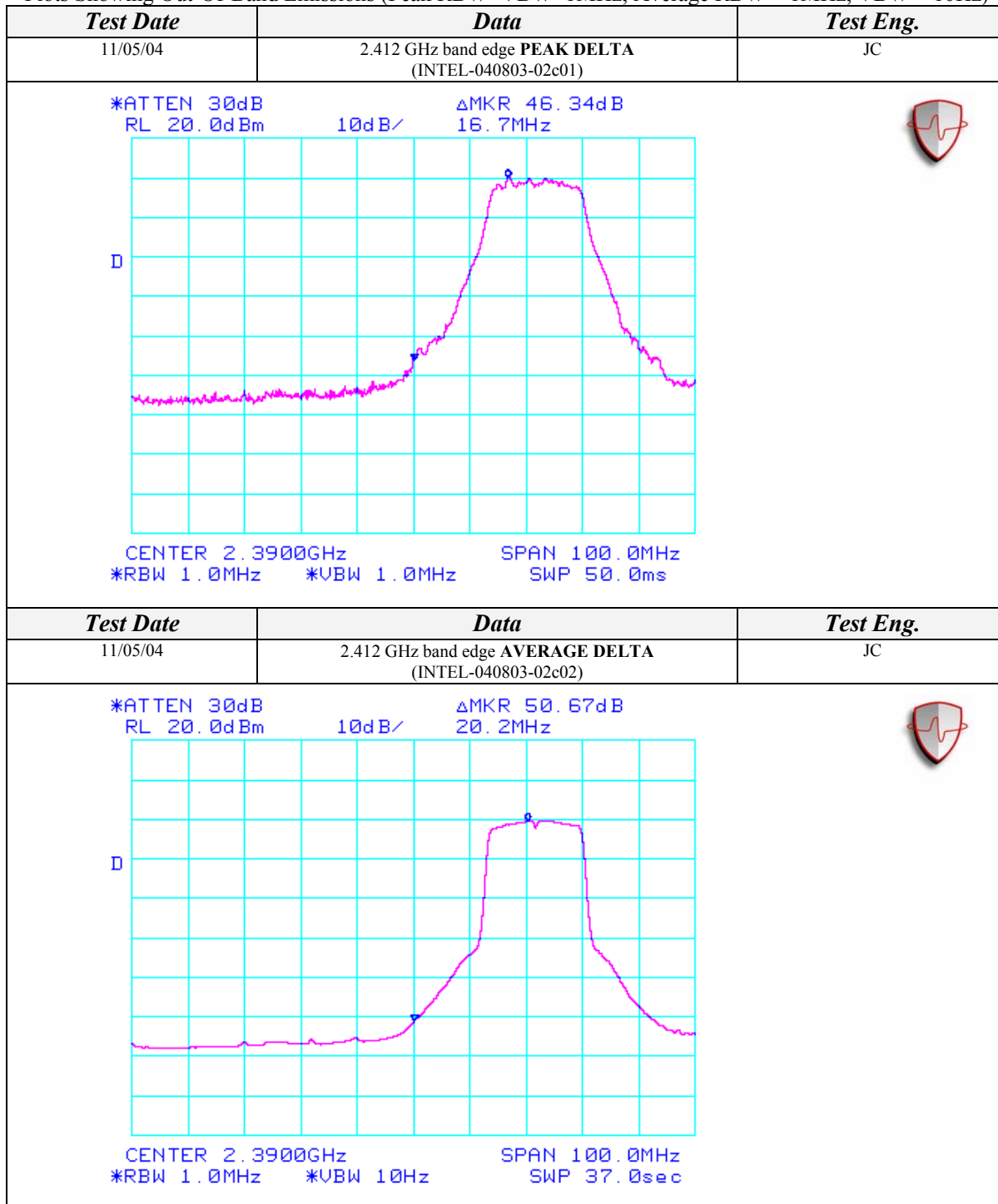
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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



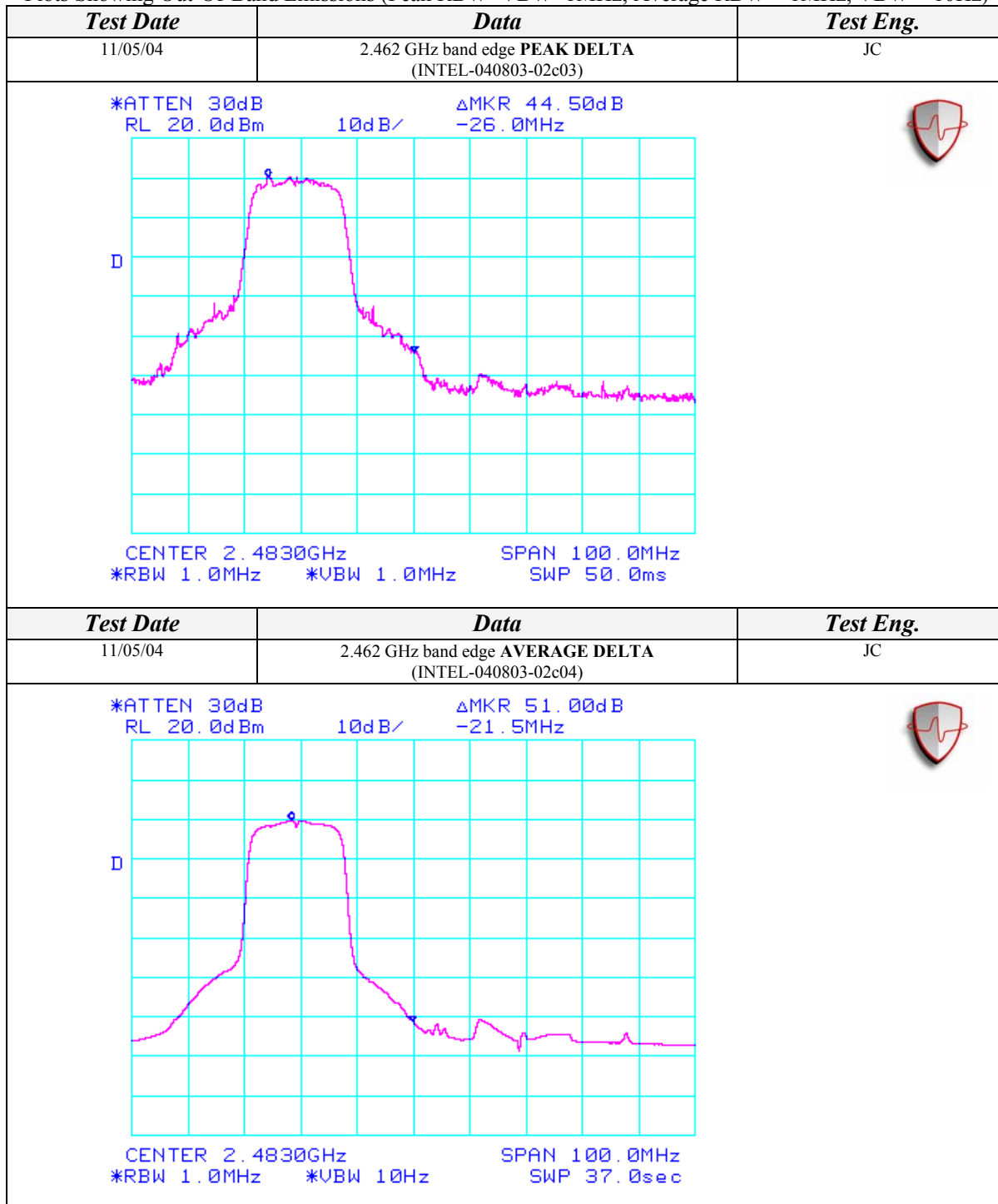
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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11g mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with WNC (Acer Solution 2) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-20*

| RADIATED EMISSIONS - Horizontal Antenna Polarization      |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
|-----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|---------------------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | 1 Meter<br>Distance<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2312.00                                                   | 32.67                      | 100                       | 90                   |                           |   | 9.54                                  | 3.23                    | 31.35                  | 57.71                          | 74.00            | -16.29              |
| 2312.00                                                   |                            |                           |                      | 21.64                     | A | 9.54                                  | 3.23                    | 31.35                  | 46.68                          | 54.00            | -7.32               |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2336.00                                                   | 33.83                      | 100                       | 45                   |                           |   | 9.54                                  | 3.25                    | 31.29                  | 58.83                          | 74.00            | -15.17              |
| 2336.00                                                   |                            |                           |                      | 23.96                     | A | 9.54                                  | 3.25                    | 31.29                  | 48.96                          | 54.00            | -5.04               |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2358.66                                                   | 33.33                      | 100                       | 90                   |                           |   | 9.54                                  | 3.26                    | 31.24                  | 58.29                          | 74.00            | -15.71              |
| 2358.66                                                   |                            |                           |                      | 21.89                     | A | 9.54                                  | 3.26                    | 31.24                  | 46.85                          | 54.00            | -7.15               |
| RADIATED EMISSIONS - Vertical Antenna Polarization        |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | 1 Meter<br>Distance<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2312.00                                                   | 33.50                      | 100                       | 90                   |                           |   | 9.54                                  | 3.23                    | 31.40                  | 58.59                          | 74.00            | -15.41              |
| 2312.00                                                   |                            |                           |                      | 21.16                     | A | 9.54                                  | 3.23                    | 31.40                  | 46.25                          | 54.00            | -7.75               |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2336.00                                                   | 33.00                      | 100                       | 90                   |                           |   | 9.54                                  | 3.25                    | 31.36                  | 58.07                          | 74.00            | -15.93              |
| 2336.00                                                   |                            |                           |                      | 20.98                     | A | 9.54                                  | 3.25                    | 31.36                  | 46.05                          | 54.00            | -7.95               |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2358.68                                                   | 32.67                      | 100                       | 90                   |                           |   | 9.54                                  | 3.26                    | 31.33                  | 57.72                          | 74.00            | -16.28              |
| 2358.68                                                   |                            |                           |                      | 20.34                     | A | 9.54                                  | 3.26                    | 31.33                  | 45.39                          | 54.00            | -8.61               |

NOTE: These spurious emissions measurements were taken without a preamp at a distance on 1 meter to avoid saturating the preamp and analyzer because the signals were close to the fundamental frequency. The readings were extrapolated to 1 meter.

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## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11g mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with WNC (Acer Solution 2) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-21*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                          | 50.33                      | 100                       | 225                  |                           |   | 43.07                    | 3.89                    | 30.24                  | 41.39                          | 90.58            | -49.19              |
| 4824.20                                                          | 49.50                      | 100                       | 135                  |                           |   | 43.27                    | 4.73                    | 34.53                  | 45.50                          | 74.00            | -28.50              |
| 4824.20                                                          |                            |                           |                      | 36.71                     | A | 43.27                    | 4.73                    | 34.53                  | 32.71                          | 54.00            | -21.29              |
| 6432.05                                                          | 57.67                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 56.23                          | 90.58            | -34.35              |
| 9647.97                                                          | 49.33                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.88                  | 51.94                          | 90.58            | -38.64              |
| 12864.02                                                         | 50.17                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 43.86                  | 58.16                          | 90.58            | -32.42              |
| <b>EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.37                                                          | 50.50                      | 100                       | 225                  |                           |   | 43.08                    | 3.91                    | 30.25                  | 41.57                          | 91.54            | -49.97              |
| 4874.06                                                          | 50.00                      | 100                       | 135                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 46.20                          | 74.00            | -27.80              |
| 4874.06                                                          |                            |                           |                      | 37.19                     | A | 43.29                    | 4.77                    | 34.72                  | 33.39                          | 54.00            | -20.61              |
| 6498.69                                                          | 59.83                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.90                  | 58.66                          | 91.54            | -32.88              |
| 9748.09                                                          | 49.67                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.00                  | 52.40                          | 91.54            | -39.14              |
| 12997.35                                                         | 50.67                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.29                  | 59.15                          | 91.54            | -32.39              |
| <b>EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.68                                                          | 50.33                      | 100                       | 225                  |                           |   | 43.10                    | 3.91                    | 30.26                  | 41.40                          | 90.66            | -49.26              |
| 4923.82                                                          | 55.50                      | 100                       | 135                  |                           |   | 43.30                    | 4.81                    | 34.91                  | 51.91                          | 74.00            | -22.09              |
| 4923.82                                                          |                            |                           |                      | 43.34                     | A | 43.30                    | 4.81                    | 34.91                  | 39.75                          | 54.00            | -14.25              |
| 6565.42                                                          | 57.83                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.32                  | 57.14                          | 90.66            | -33.52              |
| 9847.97                                                          | 50.00                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.12                  | 52.86                          | 90.66            | -37.80              |
| 13130.70                                                         | 49.33                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.25                  | 57.95                          | 90.66            | -32.71              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization               |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| <b>EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.01                                                          | 48.83                      | 100                       | 135                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 40.09                          | 89.37            | -49.28              |
| 4823.97                                                          | 48.00                      | 100                       | 135                  |                           |   | 43.27                    | 4.73                    | 34.53                  | 43.99                          | 74.00            | -30.01              |
| 4823.97                                                          |                            |                           |                      | 36.69                     | A | 43.27                    | 4.73                    | 34.53                  | 32.68                          | 54.00            | -21.32              |
| 6432.01                                                          | 56.83                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 55.39                          | 89.37            | -33.98              |
| 9648.03                                                          | 49.50                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 52.20                          | 89.37            | -37.17              |
| 12863.98                                                         | 50.17                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 44.23                  | 58.52                          | 89.37            | -30.85              |
| <b>EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.35                                                          | 48.67                      | 100                       | 135                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 39.94                          | 87.85            | -47.91              |
| 4874.03                                                          | 52.00                      | 200                       | 270                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 48.20                          | 74.00            | -25.80              |
| 4874.03                                                          |                            |                           |                      | 39.23                     | A | 43.29                    | 4.77                    | 34.72                  | 35.43                          | 54.00            | -18.57              |
| 6498.67                                                          | 57.67                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.89                  | 56.50                          | 87.85            | -31.35              |
| 9748.00                                                          | 49.33                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.15                  | 52.21                          | 87.85            | -35.64              |
| 12997.30                                                         | 50.17                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.49                  | 58.85                          | 87.85            | -29.00              |
| <b>EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.65                                                          | 48.83                      | 100                       | 135                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 40.10                          | 91.33            | -51.23              |
| 4924.01                                                          | 56.33                      | 200                       | 270                  |                           |   | 43.30                    | 4.81                    | 34.91                  | 52.74                          | 74.00            | -21.26              |
| 4924.01                                                          |                            |                           |                      | 45.01                     | A | 43.30                    | 4.81                    | 34.91                  | 41.42                          | 54.00            | -12.58              |
| 6565.34                                                          | 55.83                      | 100                       | 90                   |                           |   | 43.84                    | 5.83                    | 37.38                  | 55.20                          | 91.33            | -36.13              |
| 9848.02                                                          | 50.17                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.33                  | 53.24                          | 91.33            | -38.09              |
| 13130.62                                                         | 49.50                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.45                  | 58.32                          | 91.33            | -33.01              |

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## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11g mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous RX at MAIN Antenna port with WNC (Acer Solution 2) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-21*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                  | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|-----------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3216.00                                                         | 51.67                      | 100                       | 225                  |                           |                          | 43.07                   | 3.89                   | 30.24                          | 42.73            | 80.00 -37.27        |
| 3216.00                                                         |                            |                           |                      | 45.99                     | A                        | 43.07                   | 3.89                   | 30.24                          | 37.05            | 60.00 -22.95        |
| 6431.98                                                         | 58.50                      | 100                       | 135                  |                           |                          | 43.82                   | 5.73                   | 36.64                          | 57.06            | 80.00 -22.94        |
| 6431.98                                                         |                            |                           |                      | 55.76                     | A                        | 43.82                   | 5.73                   | 36.64                          | 54.32            | 60.00 -5.68         |
| 9648.00                                                         | 50.17                      | 100                       | 135                  |                           |                          | 43.22                   | 6.95                   | 38.88                          | 52.78            | 80.00 -27.22        |
| 9648.00                                                         |                            |                           |                      | 39.10                     | A                        | 43.22                   | 6.95                   | 38.88                          | 41.71            | 60.00 -18.29        |
| <b>EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3249.32                                                         | 51.83                      | 100                       | 225                  |                           |                          | 43.08                   | 3.91                   | 30.25                          | 42.90            | 80.00 -37.10        |
| 3249.32                                                         |                            |                           |                      | 46.09                     | A                        | 43.08                   | 3.91                   | 30.25                          | 37.16            | 60.00 -22.84        |
| 6498.67                                                         | 60.17                      | 100                       | 135                  |                           |                          | 43.84                   | 5.78                   | 36.89                          | 59.00            | 80.00 -21.00        |
| 6498.67                                                         |                            |                           |                      | 57.16                     | A                        | 43.84                   | 5.78                   | 36.89                          | 55.99            | 60.00 -4.01         |
| 9748.03                                                         | 50.33                      | 100                       | 135                  |                           |                          | 43.25                   | 6.99                   | 39.00                          | 53.06            | 80.00 -26.94        |
| 9748.03                                                         |                            |                           |                      | 39.29                     | A                        | 43.25                   | 6.99                   | 39.00                          | 42.02            | 60.00 -17.98        |
| <b>EUT in Continuous Receive Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3282.66                                                         | 50.83                      | 100                       | 225                  |                           |                          | 43.10                   | 3.91                   | 30.26                          | 41.90            | 80.00 -38.10        |
| 3282.66                                                         |                            |                           |                      | 44.19                     | A                        | 43.10                   | 3.91                   | 30.26                          | 35.26            | 60.00 -24.74        |
| 6565.32                                                         | 58.33                      | 100                       | 135                  |                           |                          | 43.84                   | 5.83                   | 37.32                          | 57.64            | 80.00 -22.36        |
| 6565.32                                                         |                            |                           |                      | 55.36                     | A                        | 43.84                   | 5.83                   | 37.32                          | 54.67            | 60.00 -5.33         |
| 9848.00                                                         | 50.50                      | 100                       | 135                  |                           |                          | 43.29                   | 7.03                   | 39.12                          | 53.36            | 80.00 -26.64        |
| 9848.00                                                         |                            |                           |                      | 39.50                     | A                        | 43.29                   | 7.03                   | 39.12                          | 42.36            | 60.00 -17.64        |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization       |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                           | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                  | 50.00                      | 100                       | 135                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 41.26                          | 80.00            | -38.74              |
| 3216.00                                                  |                            |                           |                      | 41.19                     | A | 43.07                    | 3.89                    | 30.44                  | 32.45                          | 60.00            | -27.55              |
| 6432.01                                                  | 58.50                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 57.06                          | 80.00            | -22.94              |
| 6432.01                                                  |                            |                           |                      | 55.28                     | A | 43.82                    | 5.73                    | 36.64                  | 53.84                          | 60.00            | -6.16               |
| 9648.00                                                  | 49.67                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 52.37                          | 80.00            | -27.63              |
| 9648.00                                                  |                            |                           |                      | 38.72                     | A | 43.22                    | 6.95                    | 38.97                  | 41.42                          | 60.00            | -18.58              |
| EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.33                                                  | 50.17                      | 100                       | 135                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 41.44                          | 80.00            | -38.56              |
| 3249.33                                                  |                            |                           |                      | 41.65                     | A | 43.08                    | 3.91                    | 30.45                  | 32.92                          | 60.00            | -27.08              |
| 6498.69                                                  | 57.33                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.90                  | 56.16                          | 80.00            | -23.84              |
| 6498.69                                                  |                            |                           |                      | 53.81                     | A | 43.84                    | 5.78                    | 36.90                  | 52.64                          | 60.00            | -7.36               |
| 9748.03                                                  | 49.50                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.15                  | 52.38                          | 80.00            | -27.62              |
| 9748.03                                                  |                            |                           |                      | 38.17                     | A | 43.25                    | 6.99                    | 39.15                  | 41.05                          | 60.00            | -18.95              |
| EUT in Continuous Receive Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.67                                                  | 49.50                      | 100                       | 135                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 40.77                          | 80.00            | -39.23              |
| 3282.67                                                  |                            |                           |                      | 40.17                     | A | 43.10                    | 3.91                    | 30.46                  | 31.44                          | 60.00            | -28.56              |
| 6565.34                                                  | 55.83                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.38                  | 55.20                          | 80.00            | -24.80              |
| 6565.34                                                  |                            |                           |                      | 52.13                     | A | 43.84                    | 5.83                    | 37.38                  | 51.50                          | 60.00            | -8.50               |
| 9848.04                                                  | 50.67                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.33                  | 53.74                          | 80.00            | -26.26              |
| 9848.04                                                  |                            |                           |                      | 38.54                     | A | 43.29                    | 7.03                    | 39.33                  | 41.61                          | 60.00            | -18.39              |

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**AEGIS LABS INC.**

***Wistron Neweb Corporation (Acer TravelMate 4050)***  
***TEST DATA***

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

|                       |                                                                                                                                                            |                        |              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                                                          | <b>DATE:</b>           | 10/21/04     |
| <b>EUT:</b>           | Intel PRO/Wireless 2915ABG Network Connection                                                                                                              | <b>PROJECT NUMBER:</b> | INTEL-041021 |
| <b>MODEL NUMBER:</b>  | WM3B2915ABG                                                                                                                                                | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 344F96244ABC51962012                                                                                                                                       | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in the Hewlett Packard host computer's mini PCI slot in <b>802.11a (5745-5825 MHz) mode with the WNC (Acer TravelMate 4050) antennas.</b> | <b>TEMPERATURE:</b>    | 17 C         |
|                       |                                                                                                                                                            | <b>HUMIDITY:</b>       | 52% RH       |
|                       |                                                                                                                                                            | <b>TIME:</b>           | 4:00 PM      |

|                     |                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard:</b>    | FCC CFR 47, Part 15.247(c)                                                                                                                                                                         |
| <b>Description:</b> | Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc. |
| <b>Results:</b>     | Passes (See Data Sheets)                                                                                                                                                                           |

| Unwanted Spurious Emissions Limits |                       |                                                                |                                                                      |
|------------------------------------|-----------------------|----------------------------------------------------------------|----------------------------------------------------------------------|
| Frequency (MHz)                    | Field Strength (uV/m) | Field Strength (dBuV/m)<br>(Emissions in the restricted bands) | Field Strength (dBm/MHz)<br>(Emissions outside the restricted bands) |
| Above 960                          | 500                   | 54.00 (Average)<br>74.00 (Peak)                                | < -20 dBc                                                            |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11a mode (5745-5825 MHz)  
Channels 149, 157, & 169  
Continuous TX at MAIN Antenna port with WNC (Acer TravelMate 4050) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-06*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 5745.00        | 67.17                      | 100                       | 225                  |                           |   |                          | 5.25                    | 34.85                  | 107.26                         |                  |                     |
| 5745.00        |                            |                           |                      | 57.45                     | A |                          | 5.25                    | 34.85                  | 97.54                          |                  |                     |
| 5785.00        | 67.00                      | 100                       | 225                  |                           |   |                          | 5.27                    | 34.87                  | 107.14                         |                  |                     |
| 5785.00        |                            |                           |                      | 57.34                     | A |                          | 5.27                    | 34.87                  | 97.48                          |                  |                     |
| 5825.00        | 64.83                      | 100                       | 225                  |                           |   |                          | 5.30                    | 34.90                  | 105.03                         |                  |                     |
| 5825.00        |                            |                           |                      | 55.57                     | A |                          | 5.30                    | 34.90                  | 95.77                          |                  |                     |

### RADIATED EMISSIONS – Vertical Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 5745.00        | 69.00                      | 125                       | 315                  |                           |   |                          | 5.25                    | 34.85                  | 109.09                         |                  |                     |
| 5745.00        |                            |                           |                      | 59.96                     | A |                          | 5.25                    | 34.85                  | 100.05                         |                  |                     |
| 5785.00        | 68.67                      | 100                       | 315                  |                           |   |                          | 5.27                    | 34.87                  | 108.81                         |                  |                     |
| 5785.00        |                            |                           |                      | 59.38                     | A |                          | 5.27                    | 34.87                  | 99.52                          |                  |                     |
| 5825.00        | 67.67                      | 125                       | 315                  |                           |   |                          | 5.30                    | 34.90                  | 107.87                         |                  |                     |
| 5825.00        |                            |                           |                      | 58.49                     | A |                          | 5.30                    | 34.90                  | 98.69                          |                  |                     |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11a mode (5745-5825 MHz)  
Channels 149, 157, & 169  
Continuous TX at MAIN Antenna port with WNC (Acer TravelMate 4050) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-06*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 5725.00        | 36.33                      | 100                       | 225                  |                           |                          | 5.23                    | 34.84                  | 76.40                          | 87.26            | -10.87              |
| 5850.00        | 31.17                      | 100                       | 225                  |                           |                          | 5.32                    | 34.91                  | 71.40                          | 85.03            | -13.63              |

### RADIATED EMISSIONS – Vertical Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 5725.00        | 38.33                      | 125                       | 315                  |                           |                          | 5.23                    | 34.84                  | 78.40                          | 89.09            | -10.70              |
| 5850.00        | 31.17                      | 125                       | 315                  |                           |                          | 5.32                    | 34.91                  | 71.40                          | 87.87            | -16.47              |

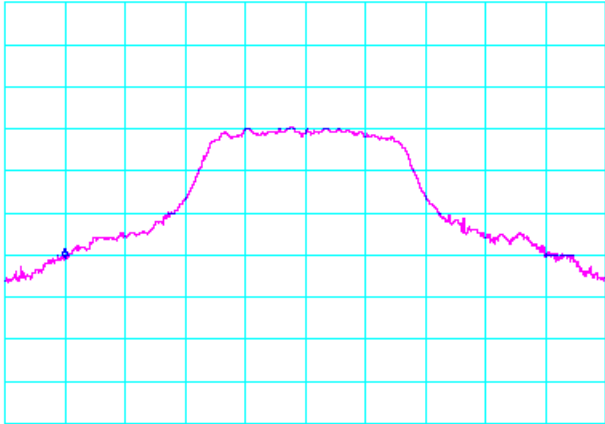
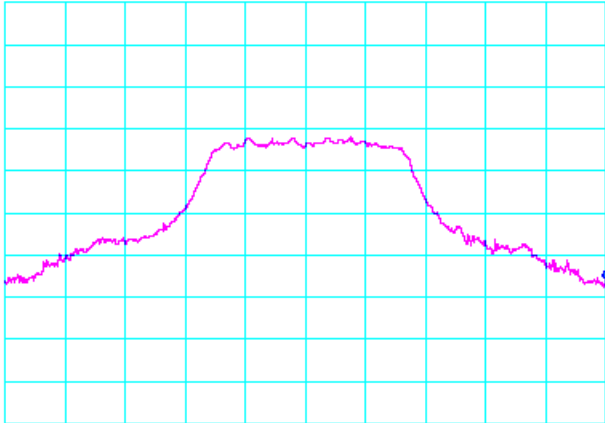
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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)

| Test Date                                                                                                                                                                                                                                                                                 | Data                                                                                  | Test Eng. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------|
| 10/21/04                                                                                                                                                                                                                                                                                  | 5.745 GHz band edge <b>PEAK (Horizontal Antenna Polarity)</b><br>(INTEL-041021-06a05) | JC        |
| <div><div><div>*ATTEN 0dB<br/>RL 97.0dBμV<br/>10dB/</div><div>MR 36.33dBμV<br/>5.72500GHz</div></div><div>CENTER 5.74500GHz<br/>*RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms</div><div>SPAN 50.00MHz</div></div>   |                                                                                       |           |
| Test Date                                                                                                                                                                                                                                                                                 | Data                                                                                  | Test Eng. |
| 10/21/04                                                                                                                                                                                                                                                                                  | 5.825 GHz band edge <b>PEAK (Horizontal Antenna Polarity)</b><br>(INTEL-041021-06a06) | JC        |
| <div><div><div>*ATTEN 0dB<br/>RL 97.0dBμV<br/>10dB/</div><div>MR 31.17dBμV<br/>5.85000GHz</div></div><div>CENTER 5.82500GHz<br/>*RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms</div><div>SPAN 50.00MHz</div></div> |                                                                                       |           |

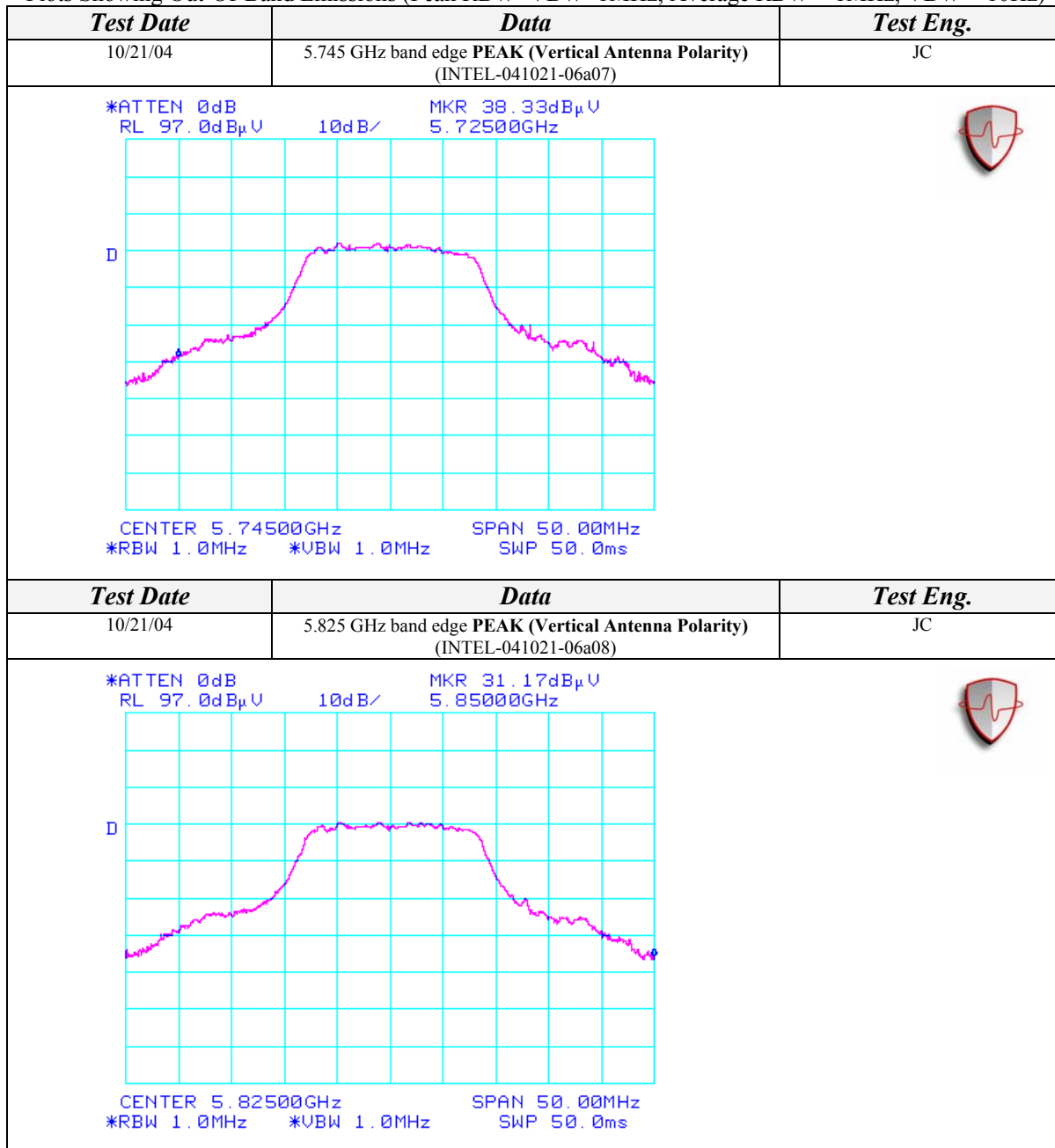
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5745-5825 MHz)  
Channels 149, 157, & 169  
Continuous TX at MAIN Antenna port with WNC (Acer TravelMate 4050) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-08*

| RADIATED EMISSIONS - Horizontal Antenna Polarization              |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|-------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                                    | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| <b>EUT in Continuous Transmit Mode on Channel 149 (5.745 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3830.00                                                           | 61.17                      | 100                       | 180                  |                           |   | 43.17                    | 4.18                    | 31.16                  | 53.34                          | 74.00            | -20.66              |
| 3830.00                                                           |                            |                           |                      | 58.86                     | A | 43.17                    | 4.18                    | 31.16                  | 51.03                          | 54.00            | -2.97               |
| 7660.00                                                           | 51.67                      | 100                       | 135                  |                           |   | 43.62                    | 6.27                    | 40.05                  | 54.37                          | 74.00            | -19.63              |
| 7660.00                                                           |                            |                           |                      | 47.06                     | A | 43.62                    | 6.27                    | 40.05                  | 49.76                          | 54.00            | -4.24               |
| 11490.00                                                          | 51.83                      | 100                       | 135                  |                           |   | 43.50                    | 7.64                    | 41.18                  | 57.15                          | 74.00            | -16.85              |
| 11490.00                                                          |                            |                           |                      | 41.48                     | A | 43.50                    | 7.64                    | 41.18                  | 46.80                          | 54.00            | -7.20               |
| 15319.89                                                          | 48.83                      | 100                       | 135                  |                           |   | 43.39                    | 8.80                    | 41.49                  | 55.73                          | 84.38            | -28.65              |
| <b>EUT in Continuous Transmit Mode on Channel 157 (5.785 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3856.66                                                           | 64.17                      | 100                       | 180                  |                           |   | 43.17                    | 4.21                    | 31.23                  | 56.43                          | 74.00            | -17.57              |
| 3856.66                                                           |                            |                           |                      | 61.19                     | A | 43.17                    | 4.21                    | 31.23                  | 53.45                          | 54.00            | -0.55               |
| 7713.33                                                           | 53.00                      | 100                       | 135                  |                           |   | 43.60                    | 6.29                    | 40.20                  | 55.89                          | 74.00            | -18.11              |
| 7713.33                                                           |                            |                           |                      | 45.47                     | A | 43.60                    | 6.29                    | 40.20                  | 48.36                          | 54.00            | -5.64               |
| 11569.98                                                          | 50.17                      | 100                       | 135                  |                           |   | 43.48                    | 7.66                    | 41.38                  | 55.74                          | 74.00            | -18.26              |
| 11569.98                                                          |                            |                           |                      | 39.39                     | A | 43.48                    | 7.66                    | 41.38                  | 44.96                          | 54.00            | -9.04               |
| 15426.58                                                          | 48.33                      | 100                       | 135                  |                           |   | 43.35                    | 8.80                    | 41.56                  | 55.34                          | 74.00            | -18.66              |
| 15426.58                                                          |                            |                           |                      | 35.95                     | A | 43.35                    | 8.80                    | 41.56                  | 42.96                          | 54.00            | -11.04              |
| <b>EUT in Continuous Transmit Mode on Channel 165 (5.825 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3883.34                                                           | 61.00                      | 100                       | 180                  |                           |   | 43.17                    | 4.23                    | 31.30                  | 53.35                          | 74.00            | -20.65              |
| 3883.34                                                           |                            |                           |                      | 58.28                     | A | 43.17                    | 4.23                    | 31.30                  | 50.63                          | 54.00            | -3.37               |
| 7766.66                                                           | 53.67                      | 100                       | 135                  |                           |   | 43.58                    | 6.32                    | 40.35                  | 56.75                          | 85.03            | -28.28              |
| 11650.00                                                          | 50.33                      | 100                       | 135                  |                           |   | 43.45                    | 7.69                    | 41.59                  | 56.16                          | 74.00            | -17.84              |
| 11650.00                                                          |                            |                           |                      | 39.25                     | A | 43.45                    | 7.69                    | 41.59                  | 45.08                          | 54.00            | -8.92               |
| 15533.23                                                          | 49.83                      | 100                       | 135                  |                           |   | 43.35                    | 8.82                    | 41.71                  | 57.01                          | 74.00            | -16.99              |
| 15533.23                                                          |                            |                           |                      | 36.46                     | A | 43.35                    | 8.82                    | 41.71                  | 43.64                          | 54.00            | -10.36              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization                |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|-------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                                    | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| <b>EUT in Continuous Transmit Mode on Channel 149 (5.745 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3830.00                                                           | 56.33                      | 100                       | 225                  |                           |   | 43.17                    | 4.18                    | 31.09                  | 48.44                          | 74.00            | -25.56              |
| 3830.00                                                           |                            |                           |                      | 52.09                     | A | 43.17                    | 4.18                    | 31.09                  | 44.20                          | 54.00            | -9.80               |
| 7660.00                                                           | 50.67                      | 100                       | 225                  |                           |   | 43.62                    | 6.27                    | 40.11                  | 53.44                          | 74.00            | -20.56              |
| 7660.00                                                           |                            |                           |                      | 41.18                     | A | 43.62                    | 6.27                    | 40.11                  | 43.95                          | 54.00            | -10.05              |
| 11490.00                                                          | 51.83                      | 100                       | 135                  |                           |   | 43.50                    | 7.64                    | 41.66                  | 57.63                          | 74.00            | -16.37              |
| 11490.00                                                          |                            |                           |                      | 40.16                     | A | 43.50                    | 7.64                    | 41.66                  | 45.96                          | 54.00            | -8.04               |
| <b>EUT in Continuous Transmit Mode on Channel 157 (5.785 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3856.66                                                           | 58.67                      | 150                       | 225                  |                           |   | 43.17                    | 4.21                    | 31.14                  | 50.85                          | 74.00            | -23.15              |
| 3856.66                                                           |                            |                           |                      | 55.66                     | A | 43.17                    | 4.21                    | 31.14                  | 47.84                          | 54.00            | -6.16               |
| 7713.33                                                           | 50.83                      | 150                       | 135                  |                           |   | 43.60                    | 6.29                    | 40.28                  | 53.81                          | 74.00            | -20.19              |
| 7713.33                                                           |                            |                           |                      | 42.34                     | A | 43.60                    | 6.29                    | 40.28                  | 45.32                          | 54.00            | -8.68               |
| 11569.98                                                          | 49.83                      | 100                       | 135                  |                           |   | 43.48                    | 7.66                    | 41.81                  | 55.83                          | 74.00            | -18.17              |
| 11569.98                                                          |                            |                           |                      | 38.59                     | A | 43.48                    | 7.66                    | 41.81                  | 44.59                          | 54.00            | -9.41               |
| <b>EUT in Continuous Transmit Mode on Channel 165 (5.825 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3883.33                                                           | 56.33                      | 100                       | 270                  |                           |   | 43.17                    | 4.23                    | 31.19                  | 48.58                          | 74.00            | -25.42              |
| 3883.33                                                           |                            |                           |                      | 50.86                     | A | 43.17                    | 4.23                    | 31.19                  | 43.11                          | 54.00            | -10.89              |
| 7766.66                                                           | 52.33                      | 125                       | 225                  |                           |   | 43.58                    | 6.32                    | 40.45                  | 55.52                          | 87.87            | -32.35              |
| 11650.00                                                          | 49.83                      | 100                       | 135                  |                           |   | 43.45                    | 7.69                    | 41.94                  | 56.01                          | 74.00            | -17.99              |
| 11650.00                                                          |                            |                           |                      | 38.57                     | A | 43.45                    | 7.69                    | 41.94                  | 44.75                          | 54.00            | -9.25               |



AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5745-5825 MHz)*  
*Channels 149, 157, & 169*  
**Continuous RX at MAIN Antenna port with WNC (Acer TravelMate 4050) Antennas**  
*Aegis Labs, Inc. File #: INTEL-041021-08*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Receive Mode on Channel 149 (5.745 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3830.00                                                          | 49.67                      | 100                       | 225                  |                           |   | 43.17                    | 4.18                    | 31.16                  | 41.84                          | 80.00            | -38.16              |
| 3830.00                                                          |                            |                           |                      | 39.97                     | A | 43.17                    | 4.18                    | 31.16                  | 32.14                          | 60.00            | -27.86              |
| 7660.00                                                          | 49.83                      | 100                       | 135                  |                           |   | 43.62                    | 6.27                    | 40.05                  | 52.53                          | 80.00            | -27.47              |
| 7660.00                                                          |                            |                           |                      | 40.74                     | A | 43.62                    | 6.27                    | 40.05                  | 43.44                          | 60.00            | -16.56              |
| 11489.92                                                         | 50.83                      | 125                       | 135                  |                           |   | 43.50                    | 7.64                    | 41.18                  | 56.15                          | 80.00            | -23.85              |
| 11489.92                                                         |                            |                           |                      | 40.41                     | A | 43.50                    | 7.64                    | 41.18                  | 45.73                          | 60.00            | -14.27              |
| <b>EUT in Continuous Receive Mode on Channel 157 (5.785 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3856.62                                                          | 50.83                      | 100                       | 180                  |                           |   | 43.17                    | 4.21                    | 31.23                  | 43.09                          | 80.00            | -36.91              |
| 3856.62                                                          |                            |                           |                      | 41.67                     | A | 43.17                    | 4.21                    | 31.23                  | 33.93                          | 60.00            | -26.07              |
| 7713.32                                                          | 54.17                      | 100                       | 135                  |                           |   | 43.60                    | 6.29                    | 40.20                  | 57.06                          | 80.00            | -22.94              |
| 7713.32                                                          |                            |                           |                      | 48.75                     | A | 43.60                    | 6.29                    | 40.20                  | 51.64                          | 60.00            | -8.36               |
| 11569.92                                                         | 50.50                      | 100                       | 135                  |                           |   | 43.48                    | 7.66                    | 41.38                  | 56.07                          | 80.00            | -23.93              |
| 11569.92                                                         |                            |                           |                      | 38.24                     | A | 43.48                    | 7.66                    | 41.38                  | 43.81                          | 60.00            | -16.19              |
| <b>EUT in Continuous Receive Mode on Channel 165 (5.825 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3883.34                                                          | 49.83                      | 125                       | 135                  |                           |   | 43.17                    | 4.23                    | 31.30                  | 42.18                          | 80.00            | -37.82              |
| 3883.34                                                          |                            |                           |                      | 41.70                     | A | 43.17                    | 4.23                    | 31.30                  | 34.05                          | 60.00            | -25.95              |
| 7766.62                                                          | 54.17                      | 100                       | 135                  |                           |   | 43.58                    | 6.32                    | 40.35                  | 57.25                          | 80.00            | -22.75              |
| 7766.62                                                          |                            |                           |                      | 48.13                     | A | 43.58                    | 6.32                    | 40.35                  | 51.21                          | 60.00            | -8.79               |
| 11649.94                                                         | 50.33                      | 100                       | 135                  |                           |   | 43.45                    | 7.69                    | 41.59                  | 56.16                          | 80.00            | -23.84              |
| 11649.94                                                         |                            |                           |                      | 37.04                     | A | 43.45                    | 7.69                    | 41.59                  | 42.87                          | 60.00            | -17.13              |

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## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization               |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| <b>EUT in Continuous Receive Mode on Channel 149 (5.745 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3830.00                                                          | 51.17                      | 100                       | 135                  |                           |   | 43.17                    | 4.18                    | 31.16                  | 43.34                          | 80.00            | -36.66              |
| 3830.00                                                          |                            |                           |                      | 41.62                     | A | 43.17                    | 4.18                    | 31.16                  | 33.79                          | 60.00            | -26.21              |
| 7660.00                                                          | 49.33                      | 100                       | 135                  |                           |   | 43.62                    | 6.27                    | 40.05                  | 52.03                          | 80.00            | -27.97              |
| 7660.00                                                          |                            |                           |                      | 39.22                     | A | 43.62                    | 6.27                    | 40.05                  | 41.92                          | 60.00            | -18.08              |
| 11489.92                                                         | 50.33                      | 100                       | 100                  |                           |   | 43.50                    | 7.64                    | 41.18                  | 55.65                          | 80.00            | -24.35              |
| 11489.92                                                         |                            |                           |                      | 39.74                     | A | 43.50                    | 7.64                    | 41.18                  | 45.06                          | 60.00            | -14.94              |
| <b>EUT in Continuous Receive Mode on Channel 157 (5.785 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3856.65                                                          | 51.00                      | 100                       | 135                  |                           |   | 43.17                    | 4.21                    | 31.14                  | 43.18                          | 80.00            | -36.82              |
| 3856.65                                                          |                            |                           |                      | 40.74                     | A | 43.17                    | 4.21                    | 31.14                  | 32.92                          | 60.00            | -27.08              |
| 7713.29                                                          | 51.00                      | 100                       | 135                  |                           |   | 43.60                    | 6.29                    | 40.28                  | 53.98                          | 80.00            | -26.02              |
| 7713.29                                                          |                            |                           |                      | 41.88                     | A | 43.60                    | 6.29                    | 40.28                  | 44.86                          | 60.00            | -15.14              |
| 11569.91                                                         | 50.50                      | 100                       | 135                  |                           |   | 43.48                    | 7.66                    | 41.81                  | 56.50                          | 80.00            | -23.50              |
| 11569.91                                                         |                            |                           |                      | 36.81                     | A | 43.48                    | 7.66                    | 41.81                  | 42.81                          | 60.00            | -17.19              |
| <b>EUT in Continuous Receive Mode on Channel 165 (5.825 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3883.35                                                          | 50.17                      | 100                       | 135                  |                           |   | 43.17                    | 4.23                    | 31.19                  | 42.42                          | 80.00            | -37.58              |
| 3883.35                                                          |                            |                           |                      | 39.25                     | A | 43.17                    | 4.23                    | 31.19                  | 31.50                          | 60.00            | -28.50              |
| 7766.63                                                          | 51.33                      | 100                       | 135                  |                           |   | 43.58                    | 6.32                    | 40.45                  | 54.52                          | 80.00            | -25.48              |
| 7766.63                                                          |                            |                           |                      | 41.40                     | A | 43.58                    | 6.32                    | 40.45                  | 44.59                          | 60.00            | -15.41              |
| 11649.97                                                         | 50.33                      | 100                       | 135                  |                           |   | 43.45                    | 7.69                    | 41.94                  | 56.51                          | 80.00            | -23.49              |
| 11649.97                                                         |                            |                           |                      | 38.97                     | A | 43.45                    | 7.69                    | 41.94                  | 45.15                          | 60.00            | -14.85              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

|                       |                                                                                                                                                            |                        |              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                                                          | <b>DATE:</b>           | 10/21/04     |
| <b>EUT:</b>           | Intel PRO/Wireless 2915ABG Network Connection                                                                                                              | <b>PROJECT NUMBER:</b> | INTEL-041021 |
| <b>MODEL NUMBER:</b>  | WM3B2915ABG                                                                                                                                                | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 344F96244ABC51962012                                                                                                                                       | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in the Hewlett Packard host computer's mini PCI slot in <b>802.11b (2412-2462 MHz) mode with the WNC (Acer TravelMate 4050) antennas.</b> | <b>TEMPERATURE:</b>    | 17 C         |
|                       |                                                                                                                                                            | <b>HUMIDITY:</b>       | 52% RH       |
|                       |                                                                                                                                                            | <b>TIME:</b>           | 4:00 PM      |

|                     |                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard:</b>    | FCC CFR 47, Part 15.247(c)                                                                                                                                                                         |
| <b>Description:</b> | Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc. |
| <b>Results:</b>     | Passes (See Data Sheets)                                                                                                                                                                           |

| Unwanted Spurious Emissions Limits |                       |                                                                |                                                                      |
|------------------------------------|-----------------------|----------------------------------------------------------------|----------------------------------------------------------------------|
| Frequency (MHz)                    | Field Strength (uV/m) | Field Strength (dBuV/m)<br>(Emissions in the restricted bands) | Field Strength (dBm/MHz)<br>(Emissions outside the restricted bands) |
| Above 960                          | 500                   | 54.00 (Average)<br>74.00 (Peak)                                | < -20 dBc                                                            |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11b mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with WNC (Acer TravelMate 4050) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-06*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 2412.00        | 75.67                      | 100                       | 225                  |                           |   |                          | 3.30                    | 31.11                  | 110.08                         |                  |                     |
| 2412.00        |                            |                           |                      | 72.28                     | A |                          | 3.30                    | 31.11                  | 106.69                         |                  |                     |
| 2437.00        | 77.00                      | 100                       | 225                  |                           |   |                          | 3.32                    | 31.05                  | 111.37                         |                  |                     |
| 2437.00        |                            |                           |                      | 73.61                     | A |                          | 3.32                    | 31.05                  | 107.98                         |                  |                     |
| 2462.00        | 75.33                      | 100                       | 225                  |                           |   |                          | 3.34                    | 30.99                  | 109.66                         |                  |                     |
| 2462.00        |                            |                           |                      | 72.10                     | A |                          | 3.34                    | 30.99                  | 106.43                         |                  |                     |

### RADIATED EMISSIONS – Vertical Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 2412.00        | 74.33                      | 125                       | 225                  |                           |   |                          | 3.30                    | 31.24                  | 108.87                         |                  |                     |
| 2412.00        |                            |                           |                      | 70.65                     | A |                          | 3.30                    | 31.24                  | 105.19                         |                  |                     |
| 2437.00        | 75.17                      | 125                       | 270                  |                           |   |                          | 3.32                    | 31.20                  | 109.69                         |                  |                     |
| 2437.00        |                            |                           |                      | 71.79                     | A |                          | 3.32                    | 31.20                  | 106.31                         |                  |                     |
| 2462.00        | 75.67                      | 125                       | 270                  |                           |   |                          | 3.34                    | 31.16                  | 110.17                         |                  |                     |
| 2462.00        |                            |                           |                      | 72.58                     | A |                          | 3.34                    | 31.16                  | 107.08                         |                  |                     |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.

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## Spurious Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11b mode (2412-2462 MHz)*  
*Channels 1, 6, & 11*  
**Continuous TX at MAIN Antenna port with WNC (Acer TravelMate 4050) Antennas**  
*Aegis Labs, Inc. File #: INTEL-041021-06*

| RADIATED EMISSIONS - Horizontal Antenna Polarization |                            |                           |                      |                           |  |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|--|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                       | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |  | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| 2390.00                                              |                            |                           |                      |                           |  |                          |                         |                        | 55.91                          | 74.00            | -18.09              |
| 2390.00                                              |                            |                           |                      |                           |  |                          |                         |                        | 44.35                          | 54.00            | -9.65               |
| 2359.80                                              |                            |                           |                      |                           |  |                          |                         |                        | 58.25                          | 74.00            | -15.75              |
| 2359.80                                              |                            |                           |                      |                           |  |                          |                         |                        | 45.35                          | 54.00            | -8.65               |
| 2400.00                                              | 40.50                      | 100                       | 225                  |                           |  |                          | 3.29                    | 31.14                  | 74.93                          | 90.08            | -15.15              |
| 2483.50                                              |                            |                           |                      |                           |  |                          |                         |                        | 55.16                          | 74.00            | -18.84              |
| 2483.50                                              |                            |                           |                      |                           |  |                          |                         |                        | 44.10                          | 54.00            | -9.90               |
| 2520.70                                              |                            |                           |                      |                           |  |                          |                         |                        | 56.00                          | 74.00            | -18.00              |
| 2520.70                                              |                            |                           |                      |                           |  |                          |                         |                        | 44.93                          | 54.00            | -9.07               |
| RADIATED EMISSIONS – Vertical Antenna Polarization   |                            |                           |                      |                           |  |                          |                         |                        |                                |                  |                     |
| Freq.<br>(MHz)                                       | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |  | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| 2390.00                                              |                            |                           |                      |                           |  |                          |                         |                        | 54.70                          | 74.00            | -19.30              |
| 2390.00                                              |                            |                           |                      |                           |  |                          |                         |                        | 42.85                          | 54.00            | -11.15              |
| 2359.80                                              |                            |                           |                      |                           |  |                          |                         |                        | 57.04                          | 74.00            | -16.96              |
| 2359.80                                              |                            |                           |                      |                           |  |                          |                         |                        | 43.85                          | 54.00            | -10.15              |
| 2400.00                                              | 39.83                      | 100                       | 225                  |                           |  |                          | 3.29                    | 31.26                  | 74.38                          | 88.87            | -14.49              |
| 2483.50                                              |                            |                           |                      |                           |  |                          |                         |                        | 55.67                          | 74.00            | -18.33              |
| 2483.50                                              |                            |                           |                      |                           |  |                          |                         |                        | 44.75                          | 54.00            | -9.25               |
| 2520.70                                              |                            |                           |                      |                           |  |                          |                         |                        | 56.51                          | 74.00            | -17.49              |
| 2520.70                                              |                            |                           |                      |                           |  |                          |                         |                        | 45.58                          | 54.00            | -8.42               |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = Fm - \Delta m$$

Where

BE = Band Edge Field Strength

Fm = Measured Fundamental (Peak or Average)

$\Delta m$  = Measured Conducted Band Edge Delta (Peak or Average)

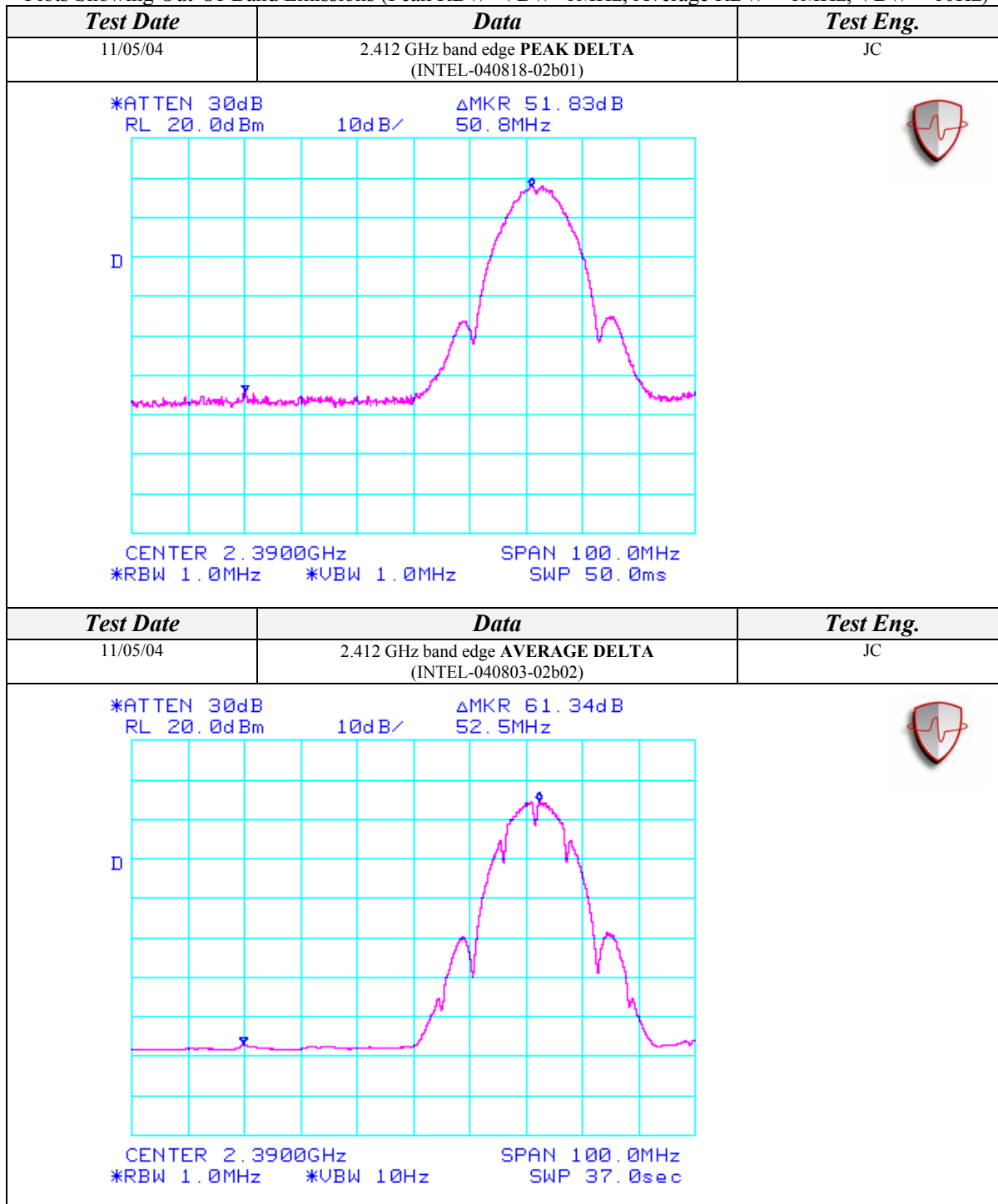
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



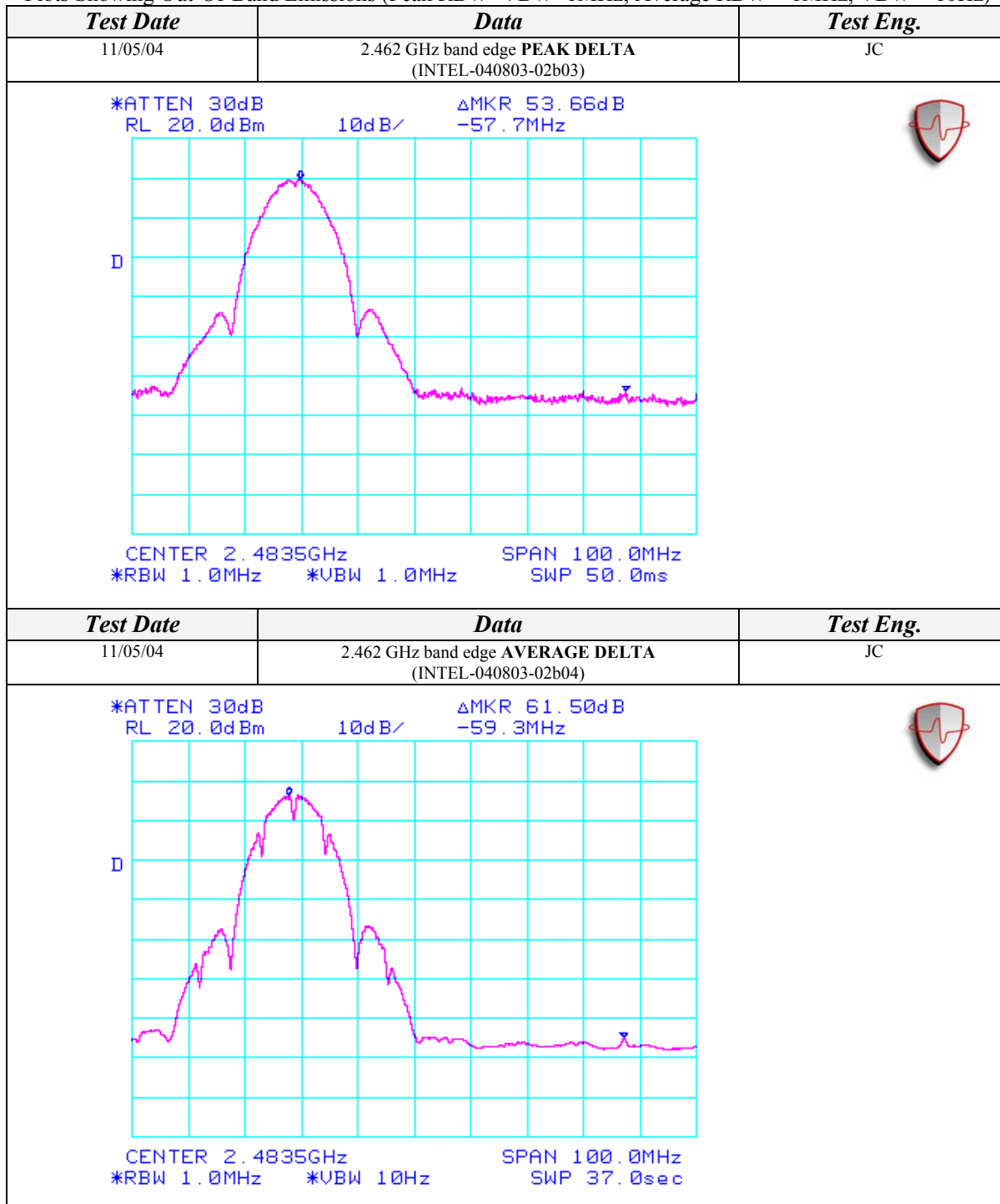
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



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## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11b mode (2412-2462 MHz)*  
*Channels 1, 6, & 11*  
**Continuous TX at MAIN Antenna port with WNC (Acer TravelMate 4050) Antennas**  
*Aegis Labs, Inc. File #: INTEL-041021-07*

| RADIATED EMISSIONS - Horizontal Antenna Polarization             |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|---------------------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | 1 Meter<br>Distance<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| <b>EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2312.00                                                          | 31.00                      | 100                       | 225                  |                           |   | 9.54                                  | 3.23                    | 31.35                  | 56.04                          | 74.00            | -17.96              |
| 2312.00                                                          |                            |                           |                      | 14.42                     | A | 9.54                                  | 3.23                    | 31.35                  | 39.46                          | 54.00            | -14.54              |
| <b>EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2336.00                                                          | 31.00                      | 100                       | 225                  |                           |   | 9.54                                  | 3.25                    | 31.29                  | 56.00                          | 74.00            | -18.00              |
| 2336.00                                                          |                            |                           |                      | 14.15                     | A | 9.54                                  | 3.25                    | 31.29                  | 39.15                          | 54.00            | -14.85              |
| <b>EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2358.66                                                          | 31.50                      | 100                       | 225                  |                           |   | 9.54                                  | 3.26                    | 31.24                  | 56.46                          | 74.00            | -17.54              |
| 2358.66                                                          |                            |                           |                      | 14.82                     | A | 9.54                                  | 3.26                    | 31.24                  | 39.78                          | 54.00            | -14.22              |
| RADIATED EMISSIONS - Vertical Antenna Polarization               |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | 1 Meter<br>Distance<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| <b>EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2312.00                                                          | 30.67                      | 100                       | 225                  |                           |   | 9.54                                  | 3.23                    | 31.40                  | 55.76                          | 74.00            | -18.24              |
| 2312.00                                                          |                            |                           |                      | 13.69                     | A | 9.54                                  | 3.23                    | 31.40                  | 38.78                          | 54.00            | -15.22              |
| <b>EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2336.00                                                          | 31.17                      | 100                       | 225                  |                           |   | 9.54                                  | 3.25                    | 31.36                  | 56.24                          | 74.00            | -17.76              |
| 2336.00                                                          |                            |                           |                      | 14.08                     | A | 9.54                                  | 3.25                    | 31.36                  | 39.15                          | 54.00            | -14.85              |
| <b>EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2358.66                                                          | 31.17                      | 100                       | 225                  |                           |   | 9.54                                  | 3.26                    | 31.33                  | 56.22                          | 74.00            | -17.78              |
| 2358.66                                                          |                            |                           |                      | 14.02                     | A | 9.54                                  | 3.26                    | 31.33                  | 39.07                          | 54.00            | -14.93              |

NOTE: These spurious emissions measurements were taken without a preamp at a distance on 1 meter to avoid saturating the preamp and analyzer because the signals were close to the fundamental frequency. The readings were extrapolated to 1 meter.

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## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11b mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with WNC (Acer TravelMate 4050) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-08*

| RADIATED EMISSIONS - Horizontal Antenna Polarization      |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|-----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                   | 53.50                      | 100                       | 225                  |                           |   | 43.07                    | 3.89                    | 30.24                  | 44.56                          | 90.08            | -45.52              |
| 4824.01                                                   | 51.83                      | 100                       | 135                  |                           |   | 43.27                    | 4.73                    | 34.53                  | 47.82                          | 74.00            | -26.18              |
| 4824.01                                                   |                            |                           |                      | 44.58                     | A | 43.27                    | 4.73                    | 34.53                  | 40.57                          | 54.00            | -13.43              |
| 6431.98                                                   | 59.00                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 57.56                          | 90.08            | -32.52              |
| 9648.01                                                   | 50.50                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.88                  | 53.11                          | 90.08            | -36.97              |
| 12864.03                                                  | 50.50                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 43.86                  | 58.49                          | 90.08            | -31.59              |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.32                                                   | 51.83                      | 100                       | 225                  |                           |   | 43.08                    | 3.91                    | 30.25                  | 42.90                          | 91.37            | -48.47              |
| 4873.99                                                   | 52.50                      | 100                       | 135                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 48.70                          | 74.00            | -25.30              |
| 4873.99                                                   |                            |                           |                      | 47.28                     | A | 43.29                    | 4.77                    | 34.72                  | 43.48                          | 54.00            | -10.52              |
| 6498.69                                                   | 59.17                      | 150                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.90                  | 58.00                          | 91.37            | -33.37              |
| 9747.96                                                   | 50.67                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.00                  | 53.40                          | 91.37            | -37.97              |
| 12997.37                                                  | 49.83                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.29                  | 58.31                          | 91.37            | -33.06              |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.69                                                   | 50.17                      | 100                       | 135                  |                           |   | 43.10                    | 3.91                    | 30.26                  | 41.24                          | 89.66            | -48.42              |
| 4924.00                                                   | 57.67                      | 100                       | 90                   |                           |   | 43.30                    | 4.81                    | 34.91                  | 54.08                          | 74.00            | -19.92              |
| 4924.00                                                   |                            |                           |                      | 56.90                     | A | 43.30                    | 4.81                    | 34.91                  | 53.31                          | 54.00            | -0.69               |
| 6565.34                                                   | 54.83                      | 150                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.32                  | 54.14                          | 89.66            | -35.52              |
| 9848.01                                                   | 53.33                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.12                  | 56.19                          | 89.66            | -33.47              |
| 13130.67                                                  | 49.33                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.25                  | 57.95                          | 89.66            | -31.71              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization        |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|-----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                   | 49.17                      | 100                       | 225                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 40.43                          | 88.87            | -48.44              |
| 4823.98                                                   | 50.83                      | 100                       | 135                  |                           |   | 43.27                    | 4.73                    | 34.53                  | 46.82                          | 74.00            | -27.18              |
| 4823.98                                                   |                            |                           |                      | 42.44                     | A | 43.27                    | 4.73                    | 34.53                  | 38.43                          | 54.00            | -15.57              |
| 6431.95                                                   | 57.50                      | 125                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 56.06                          | 88.87            | -32.81              |
| 9647.98                                                   | 50.33                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 53.03                          | 88.87            | -35.84              |
| 12864.01                                                  | 49.83                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 44.23                  | 58.18                          | 88.87            | -30.69              |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.32                                                   | 49.83                      | 100                       | 135                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 41.10                          | 89.69            | -48.59              |
| 4874.01                                                   | 53.33                      | 100                       | 135                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 49.53                          | 74.00            | -24.47              |
| 4874.01                                                   |                            |                           |                      | 47.71                     | A | 43.29                    | 4.77                    | 34.72                  | 43.91                          | 54.00            | -10.09              |
| 6498.66                                                   | 57.67                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.89                  | 56.50                          | 89.69            | -33.19              |
| 9748.04                                                   | 49.83                      | 100                       | 90                   |                           |   | 43.25                    | 6.99                    | 39.15                  | 52.71                          | 89.69            | -36.98              |
| 12997.35                                                  | 51.17                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.49                  | 59.85                          | 89.69            | -29.84              |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.66                                                   | 48.67                      | 100                       | 180                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 39.94                          | 90.17            | -50.23              |
| 4924.00                                                   | 58.67                      | 100                       | 138                  |                           |   | 43.30                    | 4.81                    | 34.91                  | 55.08                          | 74.00            | -18.92              |
| 4924.00                                                   |                            |                           |                      | 55.91                     | A | 43.30                    | 4.81                    | 34.91                  | 52.32                          | 54.00            | -1.68               |
| 6565.32                                                   | 55.17                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.38                  | 54.54                          | 90.17            | -35.63              |
| 9847.96                                                   | 53.50                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.33                  | 56.57                          | 90.17            | -33.60              |
| 13130.63                                                  | 49.50                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.45                  | 58.32                          | 90.17            | -31.85              |



AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in in802.11b mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous RX at MAIN Antenna port with WNC (Acer TravelMate 4050) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-08*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                  | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|-----------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3216.02                                                         | 51.00                      | 100                       | 180                  |                           |                          | 43.07                   | 3.89                   | 30.24                          | 42.06            | 80.00 -37.94        |
| 3216.02                                                         |                            |                           |                      | 44.10                     | A                        | 43.07                   | 3.89                   | 30.24                          | 35.16            | 60.00 -24.84        |
| 6432.00                                                         | 57.50                      | 100                       | 135                  |                           |                          | 43.82                   | 5.73                   | 36.64                          | 56.06            | 80.00 -23.94        |
| 6432.00                                                         |                            |                           |                      | 54.30                     | A                        | 43.82                   | 5.73                   | 36.64                          | 52.86            | 60.00 -7.14         |
| 9648.01                                                         | 49.50                      | 100                       | 135                  |                           |                          | 43.22                   | 6.95                   | 38.88                          | 52.11            | 80.00 -27.89        |
| 9648.01                                                         |                            |                           |                      | 37.92                     | A                        | 43.22                   | 6.95                   | 38.88                          | 40.53            | 60.00 -19.47        |
| <b>EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3249.32                                                         | 51.17                      | 100                       | 225                  |                           |                          | 43.08                   | 3.91                   | 30.25                          | 42.24            | 80.00 -37.76        |
| 3249.32                                                         |                            |                           |                      | 43.50                     | A                        | 43.08                   | 3.91                   | 30.25                          | 34.57            | 60.00 -25.43        |
| 6498.70                                                         | 59.67                      | 100                       | 135                  |                           |                          | 43.84                   | 5.78                   | 36.90                          | 58.50            | 80.00 -21.50        |
| 6498.70                                                         |                            |                           |                      | 56.20                     | A                        | 43.84                   | 5.78                   | 36.90                          | 55.03            | 60.00 -4.97         |
| 9747.99                                                         | 50.00                      | 100                       | 135                  |                           |                          | 43.25                   | 6.99                   | 39.00                          | 52.73            | 80.00 -27.27        |
| 9747.99                                                         |                            |                           |                      | 38.00                     | A                        | 43.25                   | 6.99                   | 39.00                          | 40.73            | 60.00 -19.27        |
| <b>EUT in Continuous Receive Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3282.66                                                         | 49.83                      | 100                       | 225                  |                           |                          | 43.10                   | 3.91                   | 30.26                          | 40.90            | 80.00 -39.10        |
| 3282.66                                                         |                            |                           |                      | 41.09                     | A                        | 43.10                   | 3.91                   | 30.26                          | 32.16            | 60.00 -27.84        |
| 6565.32                                                         | 51.83                      | 125                       | 180                  |                           |                          | 43.84                   | 5.83                   | 37.32                          | 51.14            | 80.00 -28.86        |
| 6565.32                                                         |                            |                           |                      | 45.19                     | A                        | 43.84                   | 5.83                   | 37.32                          | 44.50            | 60.00 -15.50        |
| 9848.01                                                         | 49.67                      | 100                       | 135                  |                           |                          | 43.29                   | 7.03                   | 39.12                          | 52.53            | 80.00 -27.47        |
| 9848.01                                                         |                            |                           |                      | 38.36                     | A                        | 43.29                   | 7.03                   | 39.12                          | 41.22            | 60.00 -18.78        |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization       |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                           | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                  | 49.67                      | 125                       | 180                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 40.93                          | 80.00            | -39.07              |
| 3216.00                                                  |                            |                           |                      | 41.23                     | A | 43.07                    | 3.89                    | 30.44                  | 32.49                          | 60.00            | -27.51              |
| 6432.02                                                  | 56.00                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 54.56                          | 80.00            | -25.44              |
| 6432.02                                                  |                            |                           |                      | 52.44                     | A | 43.82                    | 5.73                    | 36.64                  | 51.00                          | 60.00            | -9.00               |
| 9648.02                                                  | 48.83                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 51.53                          | 80.00            | -28.47              |
| 9648.02                                                  |                            |                           |                      | 36.32                     | A | 43.22                    | 6.95                    | 38.97                  | 39.02                          | 60.00            | -20.98              |
| EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.32                                                  | 49.67                      | 100                       | 180                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 40.94                          | 80.00            | -39.06              |
| 3249.32                                                  |                            |                           |                      | 39.43                     | A | 43.08                    | 3.91                    | 30.45                  | 30.70                          | 60.00            | -29.30              |
| 6498.67                                                  | 58.50                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.89                  | 57.33                          | 80.00            | -22.67              |
| 6498.67                                                  |                            |                           |                      | 55.17                     | A | 43.84                    | 5.78                    | 36.89                  | 54.00                          | 60.00            | -6.00               |
| 9748.00                                                  | 50.67                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.15                  | 53.55                          | 80.00            | -26.45              |
| 9748.00                                                  |                            |                           |                      | 36.72                     | A | 43.25                    | 6.99                    | 39.15                  | 39.60                          | 60.00            | -20.40              |
| EUT in Continuous Receive Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.67                                                  | 48.83                      | 100                       | 180                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 40.10                          | 80.00            | -39.90              |
| 3282.67                                                  |                            |                           |                      | 39.32                     | A | 43.10                    | 3.91                    | 30.46                  | 30.59                          | 60.00            | -29.41              |
| 6565.32                                                  | 55.50                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.38                  | 54.87                          | 80.00            | -25.13              |
| 6565.32                                                  |                            |                           |                      | 51.99                     | A | 43.84                    | 5.83                    | 37.38                  | 51.36                          | 60.00            | -8.64               |
| 9847.98                                                  | 49.83                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.33                  | 52.90                          | 80.00            | -27.10              |
| 9847.98                                                  |                            |                           |                      | 36.78                     | A | 43.29                    | 7.03                    | 39.33                  | 39.85                          | 60.00            | -20.15              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

|                       |                                                                                                                                                           |                        |              |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                                                         | <b>DATE:</b>           | 10/21/04     |
| <b>EUT:</b>           | Intel PRO/Wireless 2915ABG Network Connection                                                                                                             | <b>PROJECT NUMBER:</b> | INTEL-041021 |
| <b>MODEL NUMBER:</b>  | WM3B2915ABG                                                                                                                                               | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 344F96244ABC51962012                                                                                                                                      | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in the Hewlett Packard host computer's mini PCI slot in <b>802.11g (2412-2462 MHz) mode with the WNC (Acer TravelMate 4050) antennas</b> | <b>TEMPERATURE:</b>    | 17 C         |
|                       |                                                                                                                                                           | <b>HUMIDITY:</b>       | 52% RH       |
|                       |                                                                                                                                                           | <b>TIME:</b>           | 4:00 PM      |

|                     |                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard:</b>    | FCC CFR 47, Part 15.247(c)                                                                                                                                                                         |
| <b>Description:</b> | Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc. |
| <b>Results:</b>     | Passes (See Data Sheets)                                                                                                                                                                           |

| Unwanted Spurious Emissions Limits |                       |                                                                |                                                                      |
|------------------------------------|-----------------------|----------------------------------------------------------------|----------------------------------------------------------------------|
| Frequency (MHz)                    | Field Strength (uV/m) | Field Strength (dBuV/m)<br>(Emissions in the restricted bands) | Field Strength (dBm/MHz)<br>(Emissions outside the restricted bands) |
| Above 960                          | 500                   | 54.00 (Average)<br>74.00 (Peak)                                | < -20 dBc                                                            |

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## Spurious Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11g mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with WNC (Acer TravelMate 4050) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-06*

| RADIATED EMISSIONS - Horizontal Antenna Polarization |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                       | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| 2412.00                                              | 77.17                      | 100                       | 225                  |                           |   |                          | 3.30                    | 31.11                  | 111.58                         |                  |                     |
| 2412.00                                              |                            |                           |                      | 66.99                     | A |                          | 3.30                    | 31.11                  | 101.40                         |                  |                     |
| 2437.00                                              | 77.33                      | 100                       | 225                  |                           |   |                          | 3.32                    | 31.05                  | 111.70                         |                  |                     |
| 2437.00                                              |                            |                           |                      | 66.23                     | A |                          | 3.32                    | 31.05                  | 100.60                         |                  |                     |
| 2462.00                                              | 76.33                      | 100                       | 225                  |                           |   |                          | 3.34                    | 30.99                  | 110.66                         |                  |                     |
| 2462.00                                              |                            |                           |                      | 65.79                     | A |                          | 3.34                    | 30.99                  | 100.12                         |                  |                     |

| RADIATED EMISSIONS – Vertical Antenna Polarization |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|----------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                     | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| 2412.00                                            | 75.50                      | 100                       | 225                  |                           |   |                          | 3.30                    | 31.24                  | 110.04                         |                  |                     |
| 2412.00                                            |                            |                           |                      | 65.03                     | A |                          | 3.30                    | 31.24                  | 99.57                          |                  |                     |
| 2437.00                                            | 78.16                      | 100                       | 270                  |                           |   |                          | 3.32                    | 31.20                  | 112.68                         |                  |                     |
| 2437.00                                            |                            |                           |                      | 66.82                     | A |                          | 3.32                    | 31.20                  | 101.34                         |                  |                     |
| 2462.00                                            | 77.00                      | 100                       | 270                  |                           |   |                          | 3.34                    | 31.16                  | 111.50                         |                  |                     |
| 2462.00                                            |                            |                           |                      | 66.18                     | A |                          | 3.34                    | 31.16                  | 100.68                         |                  |                     |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.

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## Spurious Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11g mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with WNC (Acer TravelMate 4050) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-06*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 65.24                          | 74.00            | -8.76               |
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 50.73                          | 54.00            | -3.27               |
| 2400.00        | 52.17                      | 100                       | 225                  |                           |                          | 3.29                    | 31.14                  | 86.60                          | 91.58            | -4.98               |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 66.16                          | 74.00            | -7.84               |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 49.12                          | 54.00            | -4.88               |

### RADIATED EMISSIONS – Vertical Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 63.70                          | 74.00            | -10.30              |
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 48.90                          | 54.00            | -5.10               |
| 2400.00        | 51.33                      | 100                       | 225                  |                           |                          | 3.29                    | 31.26                  | 85.88                          | 90.04            | -4.16               |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 67.00                          | 74.00            | -7.00               |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 49.68                          | 54.00            | -4.32               |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = F_m - \Delta m$$

Where

BE = Band Edge Field Strength

F<sub>m</sub> = Measured Fundamental (Peak or Average)

Δ<sub>m</sub> = Measured Conducted Band Edge Delta (Peak or Average)

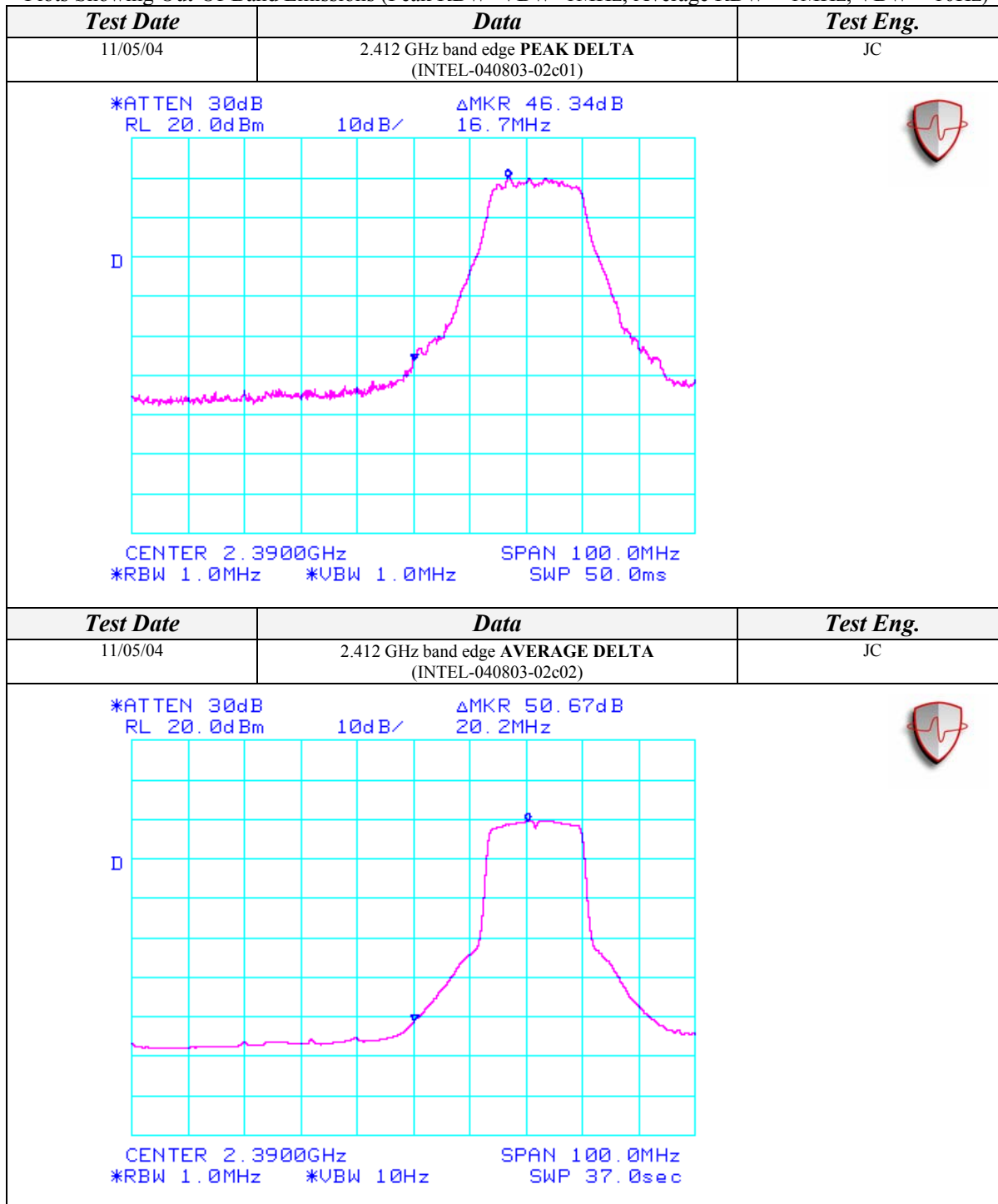
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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



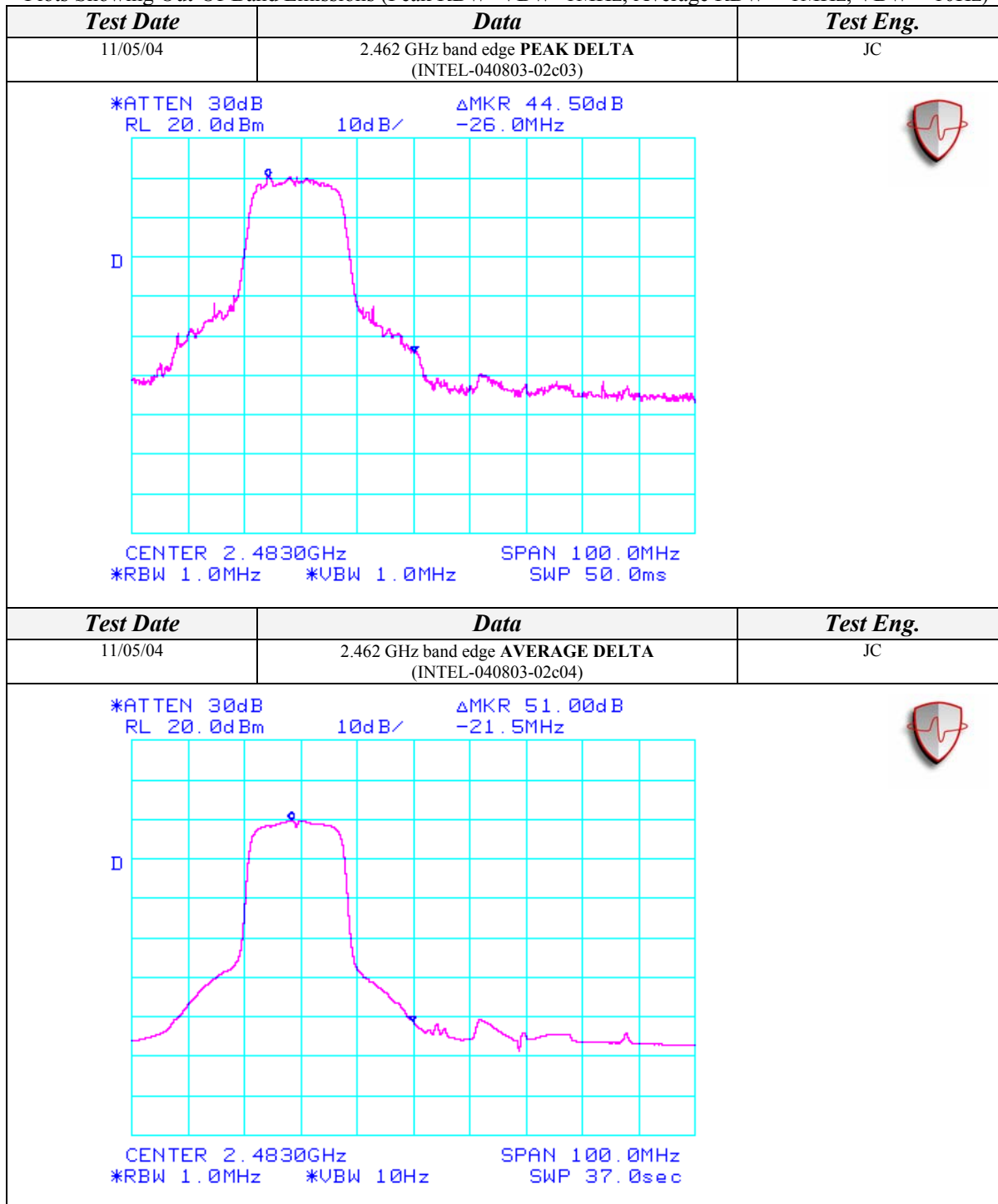
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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11g mode (2412-2462 MHz)*  
*Channels 1, 6, & 11*  
*Continuous TX at MAIN Antenna port with WNC (Acer TravelMate 4050) Antennas*  
*Aegis Labs, Inc. File #: INTEL-041021-07*

| RADIATED EMISSIONS - Horizontal Antenna Polarization      |                                     |                                    |                              |                                   |   |                                                 |                                  |                                 |                                         |                          |                             |
|-----------------------------------------------------------|-------------------------------------|------------------------------------|------------------------------|-----------------------------------|---|-------------------------------------------------|----------------------------------|---------------------------------|-----------------------------------------|--------------------------|-----------------------------|
| <i>Freq.<br/>(MHz)</i>                                    | <i>Meter<br/>Reading<br/>(dBuV)</i> | <i>Antenna<br/>Height<br/>(cm)</i> | <i>Azimuth<br/>(degrees)</i> | <i>Quasi pk or<br/>AVG (dBuV)</i> |   | <i>1 Meter<br/>Distance<br/>Factor<br/>(dB)</i> | <i>Cable<br/>Factor<br/>(dB)</i> | <i>Ant.<br/>Factor<br/>(dB)</i> | <i>Corrected<br/>Reading<br/>(dBuV)</i> | <i>Limits<br/>(dBuV)</i> | <i>Diff (dB)<br/>+=FAIL</i> |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                                     |                                    |                              |                                   |   |                                                 |                                  |                                 |                                         |                          |                             |
| 2312.00                                                   | 31.33                               | 100                                | 225                          |                                   |   | 9.54                                            | 3.23                             | 31.35                           | 56.37                                   | 74.00                    | -17.63                      |
| 2312.00                                                   |                                     |                                    |                              | 15.60                             | A | 9.54                                            | 3.23                             | 31.35                           | 40.64                                   | 54.00                    | -13.36                      |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                                     |                                    |                              |                                   |   |                                                 |                                  |                                 |                                         |                          |                             |
| 2336.00                                                   | 32.50                               | 100                                | 225                          |                                   |   | 9.54                                            | 3.25                             | 31.29                           | 57.50                                   | 74.00                    | -16.50                      |
| 2336.00                                                   |                                     |                                    |                              | 24.27                             | A | 9.54                                            | 3.25                             | 31.29                           | 49.27                                   | 54.00                    | -4.73                       |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                                     |                                    |                              |                                   |   |                                                 |                                  |                                 |                                         |                          |                             |
| 2358.66                                                   | 31.17                               | 100                                | 225                          |                                   |   | 9.54                                            | 3.26                             | 31.24                           | 56.13                                   | 74.00                    | -17.87                      |
| 2358.66                                                   |                                     |                                    |                              | 14.02                             | A | 9.54                                            | 3.26                             | 31.24                           | 38.98                                   | 54.00                    | -15.02                      |
| RADIATED EMISSIONS - Vertical Antenna Polarization        |                                     |                                    |                              |                                   |   |                                                 |                                  |                                 |                                         |                          |                             |
| <i>Freq.<br/>(MHz)</i>                                    | <i>Meter<br/>Reading<br/>(dBuV)</i> | <i>Antenna<br/>Height<br/>(cm)</i> | <i>Azimuth<br/>(degrees)</i> | <i>Quasi pk or<br/>AVG (dBuV)</i> |   | <i>1 Meter<br/>Distance<br/>Factor<br/>(dB)</i> | <i>Cable<br/>Factor<br/>(dB)</i> | <i>Ant.<br/>Factor<br/>(dB)</i> | <i>Corrected<br/>Reading<br/>(dBuV)</i> | <i>Limits<br/>(dBuV)</i> | <i>Diff (dB)<br/>+=FAIL</i> |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                                     |                                    |                              |                                   |   |                                                 |                                  |                                 |                                         |                          |                             |
| 2312.00                                                   | 31.00                               | 100                                | 270                          |                                   |   | 9.54                                            | 3.23                             | 31.40                           | 56.09                                   | 74.00                    | -17.91                      |
| 2312.00                                                   |                                     |                                    |                              | 13.52                             |   | 9.54                                            | 3.23                             | 31.40                           | 38.61                                   | 54.00                    | -15.39                      |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                                     |                                    |                              |                                   |   |                                                 |                                  |                                 |                                         |                          |                             |
| 2336.00                                                   | 30.67                               | 100                                | 270                          |                                   |   | 9.54                                            | 3.25                             | 31.36                           | 55.74                                   | 74.00                    | -18.26                      |
| 2336.00                                                   |                                     |                                    |                              | 20.13                             | A | 9.54                                            | 3.25                             | 31.36                           | 45.20                                   | 54.00                    | -8.80                       |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                                     |                                    |                              |                                   |   |                                                 |                                  |                                 |                                         |                          |                             |
| 2358.68                                                   | 32.00                               | 100                                | 270                          |                                   |   | 9.54                                            | 3.26                             | 31.33                           | 57.05                                   | 74.00                    | -16.95                      |
| 2358.68                                                   |                                     |                                    |                              | 14.10                             | A | 9.54                                            | 3.26                             | 31.33                           | 39.15                                   | 54.00                    | -14.85                      |

NOTE: These spurious emissions measurements were taken without a preamp at a distance on 1 meter to avoid saturating the preamp and analyzer because the signals were close to the fundamental frequency. The readings were extrapolated to 1 meter.

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## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11g mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with WNC (Acer TravelMate 4050) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-08*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                          | 51.00                      | 100                       | 135                  |                           |   | 43.07                    | 3.89                    | 30.24                  | 42.06                          | 91.58            | -49.52              |
| 4824.20                                                          | 51.50                      | 100                       | 135                  |                           |   | 43.27                    | 4.73                    | 34.53                  | 47.50                          | 74.00            | -26.50              |
| 4824.20                                                          |                            |                           |                      | 38.08                     | A | 43.27                    | 4.73                    | 34.53                  | 34.08                          | 54.00            | -19.92              |
| 6432.05                                                          | 58.67                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 57.23                          | 91.58            | -34.35              |
| 9647.97                                                          | 50.17                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.88                  | 52.78                          | 91.58            | -38.80              |
| 12864.02                                                         | 50.00                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 43.86                  | 57.99                          | 91.58            | -33.59              |
| <b>EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.37                                                          | 51.33                      | 100                       | 135                  |                           |   | 43.08                    | 3.91                    | 30.25                  | 42.40                          | 91.37            | -48.97              |
| 4874.06                                                          | 48.83                      | 100                       | 135                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 45.03                          | 74.00            | -28.97              |
| 4874.06                                                          |                            |                           |                      | 35.59                     | A | 43.29                    | 4.77                    | 34.72                  | 31.79                          | 54.00            | -22.21              |
| 6498.69                                                          | 59.50                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.90                  | 58.33                          | 91.37            | -33.04              |
| 9748.09                                                          | 50.00                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.00                  | 52.73                          | 91.37            | -38.64              |
| 12997.35                                                         | 50.83                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.29                  | 59.31                          | 91.37            | -32.06              |
| <b>EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.68                                                          | 50.50                      | 100                       | 225                  |                           |   | 43.10                    | 3.91                    | 30.26                  | 41.57                          | 90.12            | -48.55              |
| 4923.82                                                          | 60.17                      | 150                       | 135                  |                           |   | 43.30                    | 4.81                    | 34.91                  | 56.58                          | 74.00            | -17.42              |
| 4923.82                                                          |                            |                           |                      | 46.94                     | A | 43.30                    | 4.81                    | 34.91                  | 43.35                          | 54.00            | -10.65              |
| 6565.42                                                          | 55.50                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.32                  | 54.81                          | 90.12            | -35.31              |
| 9847.97                                                          | 49.33                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.12                  | 52.19                          | 90.12            | -37.93              |
| 13130.70                                                         | 49.50                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.25                  | 58.12                          | 90.12            | -32.00              |

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## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization               |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| <b>EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.01                                                          | 48.17                      | 100                       | 135                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 39.43                          | 90.04            | -50.61              |
| 4823.97                                                          | 53.83                      | 100                       | 135                  |                           |   | 43.27                    | 4.73                    | 34.53                  | 49.82                          | 74.00            | -24.18              |
| 4823.97                                                          |                            |                           |                      | 40.35                     | A | 43.27                    | 4.73                    | 34.53                  | 36.34                          | 54.00            | -17.66              |
| 6432.01                                                          | 55.33                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 53.89                          | 90.04            | -36.15              |
| 9648.03                                                          | 50.17                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 52.87                          | 90.04            | -37.17              |
| 12863.98                                                         | 50.00                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 44.23                  | 58.35                          | 90.04            | -31.69              |
| <b>EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.35                                                          | 49.83                      | 100                       | 135                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 41.10                          | 92.68            | -51.58              |
| 4874.03                                                          | 49.50                      | 100                       | 135                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 45.70                          | 74.00            | -28.30              |
| 4874.03                                                          |                            |                           |                      | 36.37                     | A | 43.29                    | 4.77                    | 34.72                  | 32.57                          | 54.00            | -21.43              |
| 6498.67                                                          | 57.50                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.89                  | 56.33                          | 92.68            | -36.35              |
| 9748.00                                                          | 49.67                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.15                  | 52.55                          | 92.68            | -40.13              |
| 12997.30                                                         | 50.83                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.49                  | 59.51                          | 92.68            | -33.17              |
| <b>EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.65                                                          | 49.33                      | 100                       | 180                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 40.60                          | 91.50            | -50.90              |
| 4924.01                                                          | 61.83                      | 100                       | 135                  |                           |   | 43.30                    | 4.81                    | 34.91                  | 58.24                          | 74.00            | -15.76              |
| 4924.01                                                          |                            |                           |                      | 48.82                     | A | 43.30                    | 4.81                    | 34.91                  | 45.23                          | 54.00            | -8.77               |
| 6565.34                                                          | 54.50                      | 100                       | 90                   |                           |   | 43.84                    | 5.83                    | 37.38                  | 53.87                          | 91.50            | -37.63              |
| 9848.02                                                          | 49.67                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.33                  | 52.74                          | 91.50            | -38.76              |
| 13130.62                                                         | 49.67                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.45                  | 58.49                          | 91.50            | -33.01              |



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## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11g mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous RX at MAIN Antenna port with WNC (Acer TravelMate 4050) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-08*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                  | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|-----------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3216.00                                                         | 51.33                      | 100                       | 225                  |                           |                          | 43.07                   | 3.89                   | 30.24                          | 42.39            | 80.00 -37.61        |
| 3216.00                                                         |                            |                           |                      | 43.28                     | A                        | 43.07                   | 3.89                   | 30.24                          | 34.34            | 60.00 -25.66        |
| 6431.98                                                         | 57.83                      | 100                       | 135                  |                           |                          | 43.82                   | 5.73                   | 36.64                          | 56.39            | 80.00 -23.61        |
| 6431.98                                                         |                            |                           |                      | 54.65                     | A                        | 43.82                   | 5.73                   | 36.64                          | 53.21            | 60.00 -6.79         |
| 9648.00                                                         | 49.17                      | 100                       | 135                  |                           |                          | 43.22                   | 6.95                   | 38.88                          | 51.78            | 80.00 -28.22        |
| 9648.00                                                         |                            |                           |                      | 36.51                     | A                        | 43.22                   | 6.95                   | 38.88                          | 39.12            | 60.00 -20.88        |
| <b>EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3249.32                                                         | 49.57                      | 100                       | 225                  |                           |                          | 43.08                   | 3.91                   | 30.25                          | 40.64            | 80.00 -39.36        |
| 3249.32                                                         |                            |                           |                      | 40.10                     | A                        | 43.08                   | 3.91                   | 30.25                          | 31.17            | 60.00 -28.83        |
| 6498.67                                                         | 57.50                      | 125                       | 135                  |                           |                          | 43.84                   | 5.78                   | 36.89                          | 56.33            | 80.00 -23.67        |
| 6498.67                                                         |                            |                           |                      | 54.25                     | A                        | 43.84                   | 5.78                   | 36.89                          | 53.08            | 60.00 -6.92         |
| 9748.03                                                         | 49.50                      | 100                       | 135                  |                           |                          | 43.25                   | 6.99                   | 39.00                          | 52.23            | 80.00 -27.77        |
| 9748.03                                                         |                            |                           |                      | 36.96                     | A                        | 43.25                   | 6.99                   | 39.00                          | 39.69            | 60.00 -20.31        |
| <b>EUT in Continuous Receive Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3282.66                                                         | 50.33                      | 100                       | 180                  |                           |                          | 43.10                   | 3.91                   | 30.26                          | 41.40            | 80.00 -38.60        |
| 3282.66                                                         |                            |                           |                      | 41.88                     | A                        | 43.10                   | 3.91                   | 30.26                          | 32.95            | 60.00 -27.05        |
| 6565.32                                                         | 56.67                      | 100                       | 135                  |                           |                          | 43.84                   | 5.83                   | 37.32                          | 55.98            | 80.00 -24.02        |
| 6565.32                                                         |                            |                           |                      | 53.30                     | A                        | 43.84                   | 5.83                   | 37.32                          | 52.61            | 60.00 -7.39         |
| 9848.00                                                         | 50.67                      | 100                       | 135                  |                           |                          | 43.29                   | 7.03                   | 39.12                          | 53.53            | 80.00 -26.47        |
| 9848.00                                                         |                            |                           |                      | 38.75                     | A                        | 43.29                   | 7.03                   | 39.12                          | 41.61            | 60.00 -18.39        |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization              |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|-----------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                                  | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| <b>EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                         | 49.50                      | 100                       | 180                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 40.76                          | 80.00            | -39.24              |
| 3216.00                                                         |                            |                           |                      | 40.16                     | A | 43.07                    | 3.89                    | 30.44                  | 31.42                          | 60.00            | -28.58              |
| 6432.01                                                         | 56.33                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 54.89                          | 80.00            | -25.11              |
| 6432.01                                                         |                            |                           |                      | 52.75                     | A | 43.82                    | 5.73                    | 36.64                  | 51.31                          | 60.00            | -8.69               |
| 9648.00                                                         | 49.50                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 52.20                          | 80.00            | -27.80              |
| 9648.00                                                         |                            |                           |                      | 36.31                     | A | 43.22                    | 6.95                    | 38.97                  | 39.01                          | 60.00            | -20.99              |
| <b>EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.33                                                         | 49.50                      | 100                       | 180                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 40.77                          | 80.00            | -39.23              |
| 3249.33                                                         |                            |                           |                      | 39.87                     | A | 43.08                    | 3.91                    | 30.45                  | 31.14                          | 60.00            | -28.86              |
| 6498.69                                                         | 57.67                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.90                  | 56.50                          | 80.00            | -23.50              |
| 6498.69                                                         |                            |                           |                      | 54.44                     | A | 43.84                    | 5.78                    | 36.90                  | 53.27                          | 60.00            | -6.73               |
| 9748.03                                                         | 49.50                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.15                  | 52.38                          | 80.00            | -27.62              |
| 9748.03                                                         |                            |                           |                      | 36.57                     | A | 43.25                    | 6.99                    | 39.15                  | 39.45                          | 60.00            | -20.55              |
| <b>EUT in Continuous Receive Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.67                                                         | 49.17                      | 100                       | 180                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 40.44                          | 80.00            | -39.56              |
| 3282.67                                                         |                            |                           |                      | 39.32                     | A | 43.10                    | 3.91                    | 30.46                  | 30.59                          | 60.00            | -29.41              |
| 6565.34                                                         | 56.17                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.38                  | 55.54                          | 80.00            | -24.46              |
| 6565.34                                                         |                            |                           |                      | 52.75                     | A | 43.84                    | 5.83                    | 37.38                  | 52.12                          | 60.00            | -7.88               |
| 9848.04                                                         | 49.83                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.33                  | 52.90                          | 80.00            | -27.10              |
| 9848.04                                                         |                            |                           |                      | 36.42                     | A | 43.29                    | 7.03                    | 39.33                  | 39.49                          | 60.00            | -20.51              |

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**AEGIS LABS** INC.

***Foxconn (Sony I306)***  
***TEST DATA***

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

|                       |                                                                                                                                                     |                        |              |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                                                   | <b>DATE:</b>           | 11/19/04     |
| <b>EUT:</b>           | Intel PRO/Wireless 2915ABG Network Connection                                                                                                       | <b>PROJECT NUMBER:</b> | INTEL-041021 |
| <b>MODEL NUMBER:</b>  | WM3B2915ABG                                                                                                                                         | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 344F96244ABC51962012                                                                                                                                | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in the Hewlett Packard host computer's mini PCI slot in <b>802.11a (5745-5825 MHz) mode with the Foxconn (Sony I306) antennas.</b> | <b>TEMPERATURE:</b>    | 16 C         |
|                       |                                                                                                                                                     | <b>HUMIDITY:</b>       | 61% RH       |
|                       |                                                                                                                                                     | <b>TIME:</b>           | 9:00 AM      |

|                     |                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard:</b>    | FCC CFR 47, Part 15.247(c)                                                                                                                                                                         |
| <b>Description:</b> | Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc. |
| <b>Results:</b>     | Passes (See Data Sheets)                                                                                                                                                                           |

| Unwanted Spurious Emissions Limits |                       |                                                                |                                                                      |
|------------------------------------|-----------------------|----------------------------------------------------------------|----------------------------------------------------------------------|
| Frequency (MHz)                    | Field Strength (uV/m) | Field Strength (dBuV/m)<br>(Emissions in the restricted bands) | Field Strength (dBm/MHz)<br>(Emissions outside the restricted bands) |
| Above 960                          | 500                   | 54.00 (Average)<br>74.00 (Peak)                                | < -20 dBc                                                            |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11a mode (5745-5825 MHz)*  
*Channels 149, 157, & 169*  
**Continuous TX at MAIN Antenna port with Foxconn (Sony I306) Antennas**  
*Aegis Labs, Inc. File #: INTEL-041021-22*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL |
|-------------|----------------------|---------------------|-------------------|------------------------|---|--------------------|-------------------|------------------|--------------------------|---------------|------------------|
| 5745.00     | 62.17                | 100                 | 90                |                        |   |                    | 5.25              | 34.85            | 102.26                   |               |                  |
| 5745.00     |                      |                     |                   | 52.50                  | A |                    | 5.25              | 34.85            | 92.59                    |               |                  |
| 5785.00     | 61.17                | 100                 | 90                |                        |   |                    | 5.27              | 34.87            | 101.31                   |               |                  |
| 5785.00     |                      |                     |                   | 52.12                  | A |                    | 5.27              | 34.87            | 92.26                    |               |                  |
| 5825.00     | 62.00                | 100                 | 90                |                        |   |                    | 5.30              | 34.90            | 102.20                   |               |                  |
| 5825.00     |                      |                     |                   | 52.75                  | A |                    | 5.30              | 34.90            | 92.95                    |               |                  |

### RADIATED EMISSIONS – Vertical Antenna Polarization

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL |
|-------------|----------------------|---------------------|-------------------|------------------------|---|--------------------|-------------------|------------------|--------------------------|---------------|------------------|
| 5745.00     | 63.67                | 100                 | 225               |                        |   |                    | 5.25              | 34.85            | 103.76                   |               |                  |
| 5745.00     |                      |                     |                   | 53.67                  | A |                    | 5.25              | 34.85            | 93.76                    |               |                  |
| 5785.00     | 62.00                | 100                 | 225               |                        |   |                    | 5.27              | 34.87            | 102.14                   |               |                  |
| 5785.00     |                      |                     |                   | 52.91                  | A |                    | 5.27              | 34.87            | 93.05                    |               |                  |
| 5825.00     | 63.17                | 100                 | 270               |                        |   |                    | 5.30              | 34.90            | 103.37                   |               |                  |
| 5825.00     |                      |                     |                   | 54.18                  | A |                    | 5.30              | 34.90            | 94.38                    |               |                  |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11a mode (5745-5825 MHz)  
Channels 149, 157, & 169  
Continuous TX at MAIN Antenna port with Foxconn (Sony I306) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-22*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |        |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|--------|
| 5725.00        | 32.67                      | 100                       | 90                   |                           |                          |                         | 5.23                   | 34.84                          | 72.74            | 82.26               | -9.53  |
| 5850.00        | 30.00                      | 100                       | 90                   |                           |                          |                         | 5.32                   | 34.91                          | 70.23            | 82.20               | -11.97 |

### RADIATED EMISSIONS – Vertical Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |        |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|--------|
| 5725.00        | 33.17                      | 100                       | 225                  |                           |                          |                         | 5.23                   | 34.84                          | 73.24            | 83.76               | -10.53 |
| 5850.00        | 31.33                      | 100                       | 270                  |                           |                          |                         | 5.32                   | 34.91                          | 71.56            | 83.37               | -11.81 |

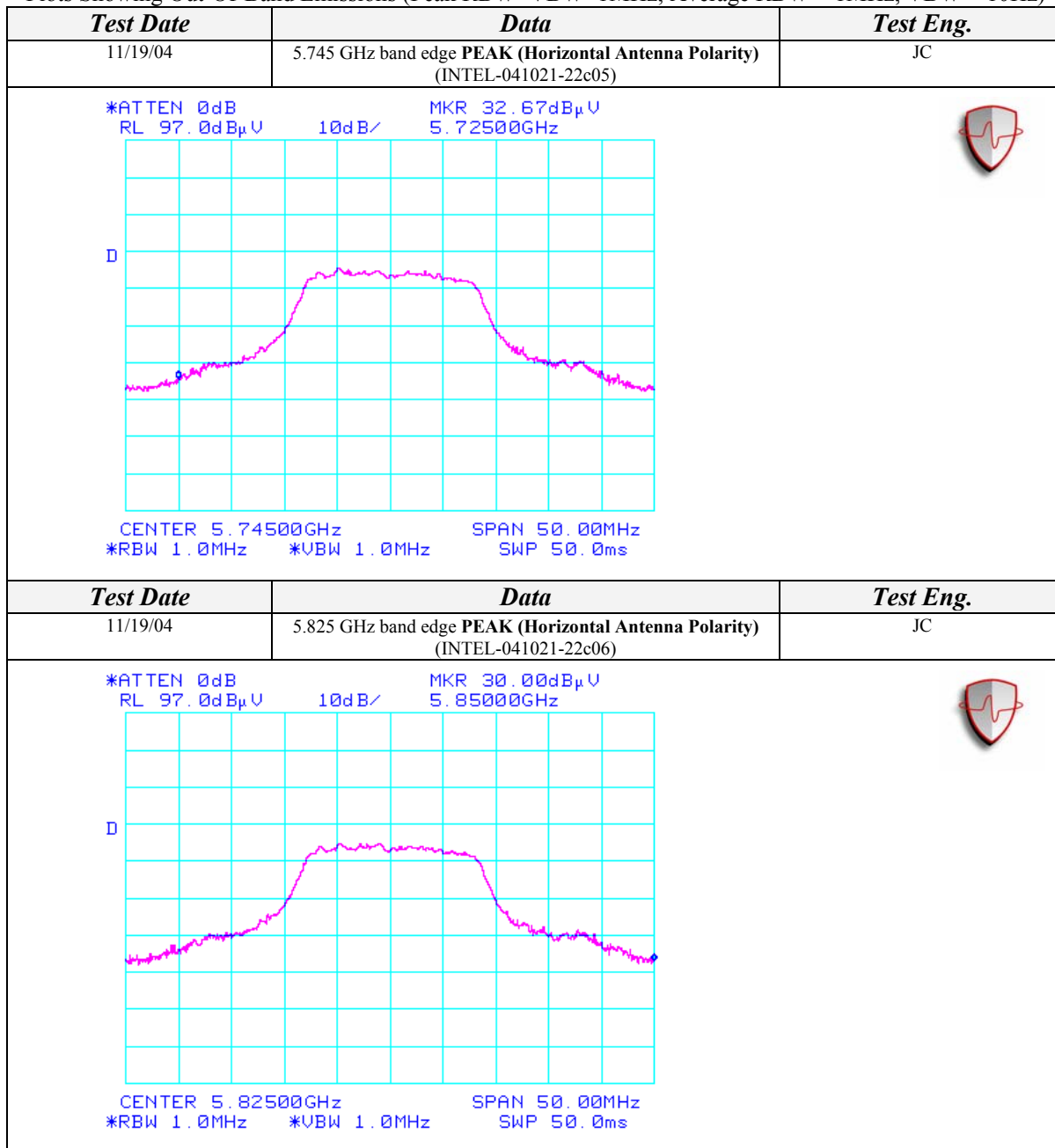
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



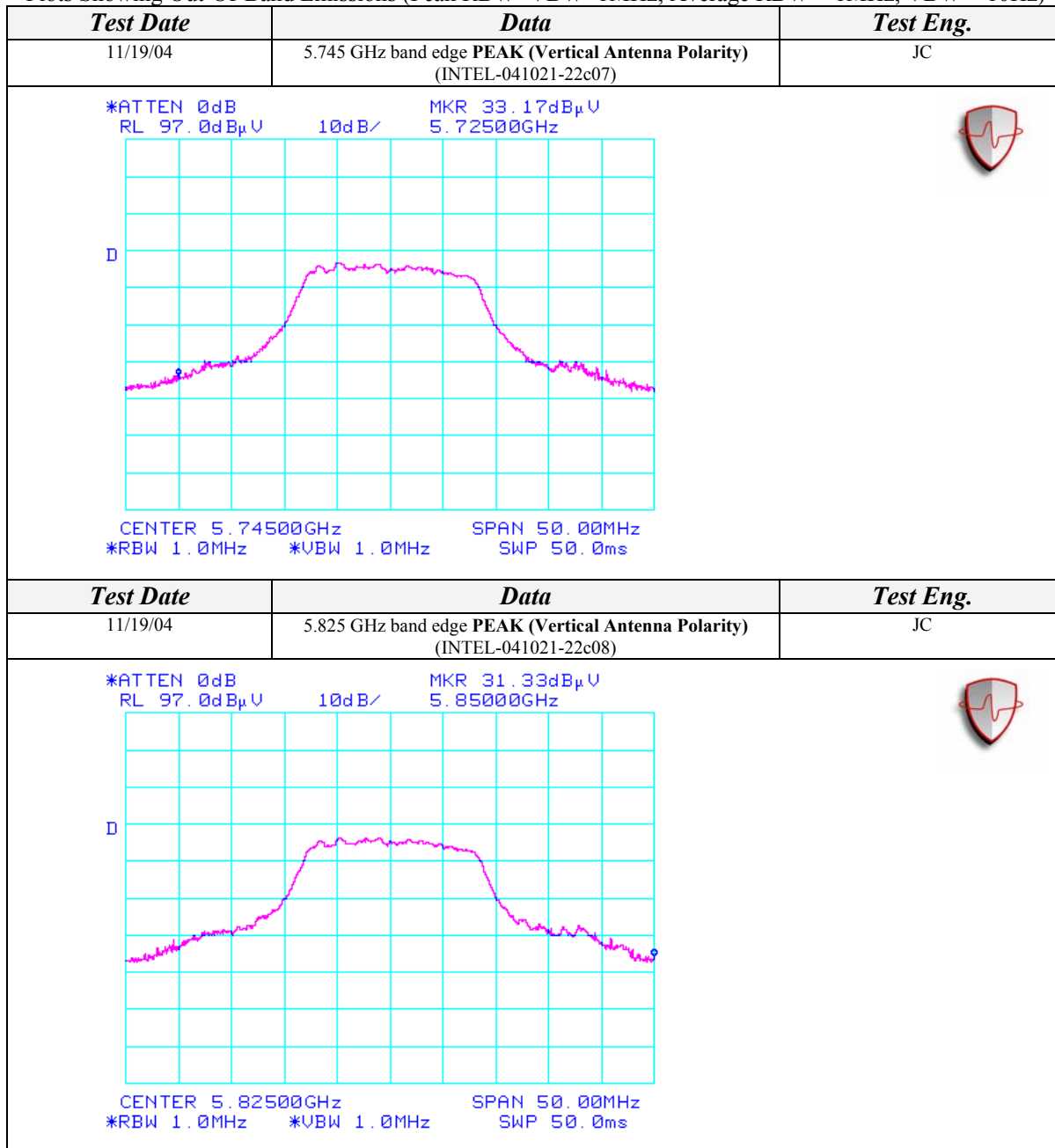
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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



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## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5745-5825 MHz)  
Channels 149, 157, & 169  
Continuous TX at MAIN Antenna port with Foxconn (Sony I306) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-24*

| RADIATED EMISSIONS - Horizontal Antenna Polarization       |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                             | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 149 (5.745 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3830.00                                                    | 55.67                      | 100                       | 225                  |                           |   | 43.17                    | 4.18                    | 31.16                  | 47.84                          | 74.00            | -26.16              |
| 3830.00                                                    |                            |                           |                      | 51.39                     | A | 43.17                    | 4.18                    | 31.16                  | 43.56                          | 54.00            | -10.44              |
| 7660.00                                                    | 52.50                      | 100                       | 135                  |                           |   | 43.62                    | 6.27                    | 40.05                  | 55.20                          | 74.00            | -18.80              |
| 7660.00                                                    |                            |                           |                      | 46.13                     | A | 43.62                    | 6.27                    | 40.05                  | 48.83                          | 54.00            | -5.17               |
| 11490.00                                                   | 52.17                      | 100                       | 135                  |                           |   | 43.50                    | 7.64                    | 41.18                  | 57.49                          | 74.00            | -16.51              |
| 11490.00                                                   |                            |                           |                      | 41.98                     | A | 43.50                    | 7.64                    | 41.18                  | 47.30                          | 54.00            | -6.70               |
| 15319.89                                                   | 49.00                      | 100                       | 135                  |                           |   | 43.39                    | 8.80                    | 41.49                  | 55.90                          | 82.26            | -26.36              |
| EUT in Continuous Transmit Mode on Channel 157 (5.785 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3856.66                                                    | 56.67                      | 100                       | 225                  |                           |   | 43.17                    | 4.21                    | 31.23                  | 48.93                          | 74.00            | -25.07              |
| 3856.66                                                    |                            |                           |                      | 52.10                     | A | 43.17                    | 4.21                    | 31.23                  | 44.36                          | 54.00            | -9.64               |
| 7713.33                                                    | 52.17                      | 100                       | 180                  |                           |   | 43.60                    | 6.29                    | 40.20                  | 55.06                          | 74.00            | -18.94              |
| 7713.33                                                    |                            |                           |                      | 42.92                     | A | 43.60                    | 6.29                    | 40.20                  | 45.81                          | 54.00            | -8.19               |
| 11569.98                                                   | 50.33                      | 100                       | 135                  |                           |   | 43.48                    | 7.66                    | 41.38                  | 55.90                          | 74.00            | -18.10              |
| 11569.98                                                   |                            |                           |                      | 40.03                     | A | 43.48                    | 7.66                    | 41.38                  | 45.60                          | 54.00            | -8.40               |
| 15426.58                                                   | 49.33                      | 100                       | 135                  |                           |   | 43.35                    | 8.80                    | 41.56                  | 56.34                          | 74.00            | -17.66              |
| 15426.58                                                   |                            |                           |                      | 37.46                     | A | 43.35                    | 8.80                    | 41.56                  | 44.47                          | 54.00            | -9.53               |
| EUT in Continuous Transmit Mode on Channel 165 (5.825 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3883.34                                                    | 57.17                      | 100                       | 225                  |                           |   | 43.17                    | 4.23                    | 31.30                  | 49.52                          | 74.00            | -24.48              |
| 3883.34                                                    |                            |                           |                      | 52.84                     | A | 43.17                    | 4.23                    | 31.30                  | 45.19                          | 54.00            | -8.81               |
| 7766.66                                                    | 53.33                      | 100                       | 135                  |                           |   | 43.58                    | 6.32                    | 40.35                  | 56.41                          | 82.20            | -25.79              |
| 11650.00                                                   | 50.33                      | 100                       | 135                  |                           |   | 43.45                    | 7.69                    | 41.59                  | 56.16                          | 74.00            | -17.84              |
| 11650.00                                                   |                            |                           |                      | 39.73                     | A | 43.45                    | 7.69                    | 41.59                  | 45.56                          | 54.00            | -8.44               |
| 15533.23                                                   | 50.00                      | 100                       | 135                  |                           |   | 43.35                    | 8.82                    | 41.71                  | 57.18                          | 74.00            | -16.82              |
| 15533.23                                                   |                            |                           |                      | 38.16                     | A | 43.35                    | 8.82                    | 41.71                  | 45.34                          | 54.00            | -8.66               |

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## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization         |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                             | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 149 (5.745 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3830.00                                                    | 59.83                      | 100                       | 225                  |                           |   | 43.17                    | 4.18                    | 31.09                  | 51.94                          | 74.00            | -22.06              |
| 3830.00                                                    |                            |                           |                      | 57.35                     | A | 43.17                    | 4.18                    | 31.09                  | 49.46                          | 54.00            | -4.54               |
| 7660.00                                                    | 51.67                      | 100                       | 225                  |                           |   | 43.62                    | 6.27                    | 40.11                  | 54.44                          | 74.00            | -19.56              |
| 7660.00                                                    |                            |                           |                      | 41.92                     | A | 43.62                    | 6.27                    | 40.11                  | 44.69                          | 54.00            | -9.31               |
| 11490.00                                                   | 51.33                      | 100                       | 135                  |                           |   | 43.50                    | 7.64                    | 41.66                  | 57.13                          | 74.00            | -16.87              |
| 11490.00                                                   |                            |                           |                      | 40.41                     | A | 43.50                    | 7.64                    | 41.66                  | 46.21                          | 54.00            | -7.79               |
| EUT in Continuous Transmit Mode on Channel 157 (5.785 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3856.66                                                    | 60.50                      | 100                       | 225                  |                           |   | 43.17                    | 4.21                    | 31.14                  | 52.68                          | 74.00            | -21.32              |
| 3856.66                                                    |                            |                           |                      | 58.22                     | A | 43.17                    | 4.21                    | 31.14                  | 50.40                          | 54.00            | -3.60               |
| 7713.33                                                    | 51.33                      | 100                       | 135                  |                           |   | 43.60                    | 6.29                    | 40.28                  | 54.31                          | 74.00            | -19.69              |
| 7713.33                                                    |                            |                           |                      | 41.75                     | A | 43.60                    | 6.29                    | 40.28                  | 44.73                          | 54.00            | -9.27               |
| 11569.98                                                   | 50.17                      | 100                       | 135                  |                           |   | 43.48                    | 7.66                    | 41.81                  | 56.17                          | 74.00            | -17.83              |
| 11569.98                                                   |                            |                           |                      | 39.03                     | A | 43.48                    | 7.66                    | 41.81                  | 45.03                          | 54.00            | -8.97               |
| EUT in Continuous Transmit Mode on Channel 165 (5.825 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3883.33                                                    | 61.33                      | 100                       | 225                  |                           |   | 43.17                    | 4.23                    | 31.19                  | 53.58                          | 74.00            | -20.42              |
| 3883.33                                                    |                            |                           |                      | 59.02                     | A | 43.17                    | 4.23                    | 31.19                  | 51.27                          | 54.00            | -2.73               |
| 7766.66                                                    | 51.83                      | 100                       | 270                  |                           |   | 43.58                    | 6.32                    | 40.45                  | 55.02                          | 83.37            | -28.35              |
| 11650.00                                                   | 49.83                      | 100                       | 135                  |                           |   | 43.45                    | 7.69                    | 41.94                  | 56.01                          | 74.00            | -17.99              |
| 11650.00                                                   |                            |                           |                      | 39.49                     | A | 43.45                    | 7.69                    | 41.94                  | 45.67                          | 54.00            | -8.33               |

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## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5745-5825 MHz)  
Channels 149, 157, & 169  
Continuous RX at MAIN Antenna port with Foxconn (Sony I306) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-24*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Receive Mode on Channel 149 (5.745 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3830.00                                                          | 50.50                      | 100                       | 135                  |                           |   | 43.17                    | 4.18                    | 31.16                  | 42.67                          | 80.00            | -37.33              |
| 3830.00                                                          |                            |                           |                      | 41.23                     | A | 43.17                    | 4.18                    | 31.16                  | 33.40                          | 60.00            | -26.60              |
| 7660.00                                                          | 50.67                      | 100                       | 135                  |                           |   | 43.62                    | 6.27                    | 40.05                  | 53.37                          | 80.00            | -26.63              |
| 7660.00                                                          |                            |                           |                      | 42.86                     | A | 43.62                    | 6.27                    | 40.05                  | 45.56                          | 60.00            | -14.44              |
| 11489.92                                                         | 51.33                      | 100                       | 135                  |                           |   | 43.50                    | 7.64                    | 41.18                  | 56.65                          | 80.00            | -23.35              |
| 11489.92                                                         |                            |                           |                      | 40.58                     | A | 43.50                    | 7.64                    | 41.18                  | 45.90                          | 60.00            | -14.10              |
| <b>EUT in Continuous Receive Mode on Channel 157 (5.785 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3856.62                                                          | 51.83                      | 100                       | 135                  |                           |   | 43.17                    | 4.21                    | 31.23                  | 44.09                          | 80.00            | -35.91              |
| 3856.62                                                          |                            |                           |                      | 43.23                     | A | 43.17                    | 4.21                    | 31.23                  | 35.49                          | 60.00            | -24.51              |
| 7713.32                                                          | 53.00                      | 100                       | 135                  |                           |   | 43.60                    | 6.29                    | 40.20                  | 55.89                          | 80.00            | -24.11              |
| 7713.32                                                          |                            |                           |                      | 46.43                     | A | 43.60                    | 6.29                    | 40.20                  | 49.32                          | 60.00            | -10.68              |
| 11569.92                                                         | 50.50                      | 100                       | 135                  |                           |   | 43.48                    | 7.66                    | 41.38                  | 56.07                          | 80.00            | -23.93              |
| 11569.92                                                         |                            |                           |                      | 38.46                     | A | 43.48                    | 7.66                    | 41.38                  | 44.03                          | 60.00            | -15.97              |
| <b>EUT in Continuous Receive Mode on Channel 165 (5.825 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3883.34                                                          | 52.33                      | 100                       | 135                  |                           |   | 43.17                    | 4.23                    | 31.30                  | 44.68                          | 80.00            | -35.32              |
| 3883.34                                                          |                            |                           |                      | 44.23                     | A | 43.17                    | 4.23                    | 31.30                  | 36.58                          | 60.00            | -23.42              |
| 7766.62                                                          | 53.83                      | 100                       | 135                  |                           |   | 43.58                    | 6.32                    | 40.35                  | 56.91                          | 80.00            | -23.09              |
| 7766.62                                                          |                            |                           |                      | 47.84                     | A | 43.58                    | 6.32                    | 40.35                  | 50.92                          | 60.00            | -9.08               |
| 11649.94                                                         | 49.83                      | 100                       | 135                  |                           |   | 43.45                    | 7.69                    | 41.59                  | 55.66                          | 80.00            | -24.34              |
| 11649.94                                                         |                            |                           |                      | 38.43                     | A | 43.45                    | 7.69                    | 41.59                  | 44.26                          | 60.00            | -15.74              |

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## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization               |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| <b>EUT in Continuous Receive Mode on Channel 149 (5.745 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3830.00                                                          | 50.83                      | 100                       | 270                  |                           |   | 43.17                    | 4.18                    | 31.16                  | 43.00                          | 80.00            | -37.00              |
| 3830.00                                                          |                            |                           |                      | 41.19                     | A | 43.17                    | 4.18                    | 31.16                  | 33.36                          | 60.00            | -26.64              |
| 7660.00                                                          | 50.17                      | 125                       | 135                  |                           |   | 43.62                    | 6.27                    | 40.05                  | 52.87                          | 80.00            | -27.13              |
| 7660.00                                                          |                            |                           |                      | 41.02                     | A | 43.62                    | 6.27                    | 40.05                  | 43.72                          | 60.00            | -16.28              |
| 11489.92                                                         | 51.33                      | 100                       | 135                  |                           |   | 43.50                    | 7.64                    | 41.18                  | 56.65                          | 80.00            | -23.35              |
| 11489.92                                                         |                            |                           |                      | 42.28                     | A | 43.50                    | 7.64                    | 41.18                  | 47.60                          | 60.00            | -12.40              |
| <b>EUT in Continuous Receive Mode on Channel 157 (5.785 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3856.65                                                          | 50.17                      | 100                       | 135                  |                           |   | 43.17                    | 4.21                    | 31.14                  | 42.35                          | 80.00            | -37.65              |
| 3856.65                                                          |                            |                           |                      | 40.78                     | A | 43.17                    | 4.21                    | 31.14                  | 32.96                          | 60.00            | -27.04              |
| 7713.29                                                          | 50.67                      | 125                       | 135                  |                           |   | 43.60                    | 6.29                    | 40.28                  | 53.65                          | 80.00            | -26.35              |
| 7713.29                                                          |                            |                           |                      | 41.50                     | A | 43.60                    | 6.29                    | 40.28                  | 44.48                          | 60.00            | -15.52              |
| 11569.91                                                         | 50.33                      | 100                       | 135                  |                           |   | 43.48                    | 7.66                    | 41.81                  | 56.33                          | 80.00            | -23.67              |
| 11569.91                                                         |                            |                           |                      | 39.36                     | A | 43.48                    | 7.66                    | 41.81                  | 45.36                          | 60.00            | -14.64              |
| <b>EUT in Continuous Receive Mode on Channel 165 (5.825 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3883.35                                                          | 51.17                      | 100                       | 225                  |                           |   | 43.17                    | 4.23                    | 31.19                  | 43.42                          | 80.00            | -36.58              |
| 3883.35                                                          |                            |                           |                      | 43.19                     | A | 43.17                    | 4.23                    | 31.19                  | 35.44                          | 60.00            | -24.56              |
| 7766.63                                                          | 51.67                      | 100                       | 135                  |                           |   | 43.58                    | 6.32                    | 40.45                  | 54.86                          | 80.00            | -25.14              |
| 7766.63                                                          |                            |                           |                      | 42.09                     | A | 43.58                    | 6.32                    | 40.45                  | 45.28                          | 60.00            | -14.72              |
| 11649.97                                                         | 50.50                      | 100                       | 135                  |                           |   | 43.45                    | 7.69                    | 41.94                  | 56.68                          | 80.00            | -23.32              |
| 11649.97                                                         |                            |                           |                      | 39.21                     | A | 43.45                    | 7.69                    | 41.94                  | 45.39                          | 60.00            | -14.61              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

|                       |                                                                                                                                                     |                        |              |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                                                   | <b>DATE:</b>           | 11/19/04     |
| <b>EUT:</b>           | Intel PRO/Wireless 2915ABG Network Connection                                                                                                       | <b>PROJECT NUMBER:</b> | INTEL-041021 |
| <b>MODEL NUMBER:</b>  | WM3B2915ABG                                                                                                                                         | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 344F96244ABC51962012                                                                                                                                | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in the Hewlett Packard host computer's mini PCI slot in <b>802.11b (2412-2462 MHz) mode with the Foxconn (Sony I306) antennas.</b> | <b>TEMPERATURE:</b>    | 16 C         |
|                       |                                                                                                                                                     | <b>HUMIDITY:</b>       | 61% RH       |
|                       |                                                                                                                                                     | <b>TIME:</b>           | 9:00 AM      |

|                     |                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard:</b>    | FCC CFR 47, Part 15.247(c)                                                                                                                                                                         |
| <b>Description:</b> | Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc. |
| <b>Results:</b>     | Passes (See Data Sheets)                                                                                                                                                                           |

| Unwanted Spurious Emissions Limits |                       |                                                                |                                                                      |
|------------------------------------|-----------------------|----------------------------------------------------------------|----------------------------------------------------------------------|
| Frequency (MHz)                    | Field Strength (uV/m) | Field Strength (dBuV/m)<br>(Emissions in the restricted bands) | Field Strength (dBm/MHz)<br>(Emissions outside the restricted bands) |
| Above 960                          | 500                   | 54.00 (Average)<br>74.00 (Peak)                                | < -20 dBc                                                            |

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## Spurious Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11b mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with Foxconn (Sony I306) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-22*

| RADIATED EMISSIONS - Horizontal Antenna Polarization |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                       | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| 2412.00                                              | 68.33                      | 125                       | 135                  |                           |   |                          | 3.30                    | 31.11                  | 102.74                         |                  |                     |
| 2412.00                                              |                            |                           |                      | 64.92                     | A |                          | 3.30                    | 31.11                  | 99.33                          |                  |                     |
| 2437.00                                              | 70.83                      | 125                       | 135                  |                           |   |                          | 3.32                    | 31.05                  | 105.20                         |                  |                     |
| 2437.00                                              |                            |                           |                      | 67.79                     | A |                          | 3.32                    | 31.05                  | 102.16                         |                  |                     |
| 2462.00                                              | 71.50                      | 125                       | 135                  |                           |   |                          | 3.34                    | 30.99                  | 105.83                         |                  |                     |
| 2462.00                                              |                            |                           |                      | 68.23                     | A |                          | 3.34                    | 30.99                  | 102.56                         |                  |                     |

| RADIATED EMISSIONS – Vertical Antenna Polarization |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|----------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                     | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| 2412.00                                            | 69.50                      | 125                       | 90                   |                           |   |                          | 3.30                    | 31.24                  | 104.04                         |                  |                     |
| 2412.00                                            |                            |                           |                      | 66.34                     | A |                          | 3.30                    | 31.24                  | 100.88                         |                  |                     |
| 2437.00                                            | 71.33                      | 125                       | 90                   |                           |   |                          | 3.32                    | 31.20                  | 105.85                         |                  |                     |
| 2437.00                                            |                            |                           |                      | 68.08                     | A |                          | 3.32                    | 31.20                  | 102.60                         |                  |                     |
| 2462.00                                            | 73.00                      | 125                       | 315                  |                           |   |                          | 3.34                    | 31.16                  | 107.50                         |                  |                     |
| 2462.00                                            |                            |                           |                      | 69.63                     | A |                          | 3.34                    | 31.16                  | 104.13                         |                  |                     |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

**Band Edge Field Strength Measurements in 802.11b mode (2412-2462 MHz)**  
**Channels 1, 6, & 11**  
**Continuous TX at MAIN Antenna port with Foxconn (Sony I306) Antennas**  
**Aegis Labs, Inc. File #: INTEL-041021-22**

| RADIATED EMISSIONS - Horizontal Antenna Polarization |                            |                           |                      |                           |  |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|--|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                       | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |  | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| 2390.00                                              |                            |                           |                      |                           |  |                          |                         |                        | 48.57                          | 74.00            | -25.43              |
| 2390.00                                              |                            |                           |                      |                           |  |                          |                         |                        | 36.99                          | 54.00            | -17.01              |
| 2359.80                                              |                            |                           |                      |                           |  |                          |                         |                        | 50.91                          | 74.00            | -23.09              |
| 2359.80                                              |                            |                           |                      |                           |  |                          |                         |                        | 37.99                          | 54.00            | -16.01              |
| 2400.00                                              | 36.50                      | 125                       | 135                  |                           |  |                          | 3.29                    | 31.14                  | 70.93                          | 82.74            | -11.81              |
| 2483.50                                              |                            |                           |                      |                           |  |                          |                         |                        | 51.33                          | 74.00            | -22.67              |
| 2483.50                                              |                            |                           |                      |                           |  |                          |                         |                        | 40.23                          | 54.00            | -13.77              |
| 2520.70                                              |                            |                           |                      |                           |  |                          |                         |                        | 52.17                          | 74.00            | -21.83              |
| 2520.70                                              |                            |                           |                      |                           |  |                          |                         |                        | 41.06                          | 54.00            | -12.94              |
| RADIATED EMISSIONS – Vertical Antenna Polarization   |                            |                           |                      |                           |  |                          |                         |                        |                                |                  |                     |
| Freq.<br>(MHz)                                       | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |  | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| 2390.00                                              |                            |                           |                      |                           |  |                          |                         |                        | 49.87                          | 74.00            | -24.13              |
| 2390.00                                              |                            |                           |                      |                           |  |                          |                         |                        | 38.54                          | 54.00            | -15.46              |
| 2359.80                                              |                            |                           |                      |                           |  |                          |                         |                        | 52.21                          | 74.00            | -21.79              |
| 2359.80                                              |                            |                           |                      |                           |  |                          |                         |                        | 39.54                          | 54.00            | -14.46              |
| 2400.00                                              | 37.83                      | 125                       | 90                   |                           |  |                          | 3.29                    | 31.26                  | 72.38                          | 84.04            | -11.66              |
| 2483.50                                              |                            |                           |                      |                           |  |                          |                         |                        | 53.00                          | 74.00            | -21.00              |
| 2483.50                                              |                            |                           |                      |                           |  |                          |                         |                        | 41.80                          | 54.00            | -12.20              |
| 2520.70                                              |                            |                           |                      |                           |  |                          |                         |                        | 53.84                          | 74.00            | -20.16              |
| 2520.70                                              |                            |                           |                      |                           |  |                          |                         |                        | 42.63                          | 54.00            | -11.37              |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = F_m - \Delta m$$

Where

BE = Band Edge Field Strength

F<sub>m</sub> = Measured Fundamental (Peak or Average)

Δm = Measured Conducted Band Edge Delta (Peak or Average)

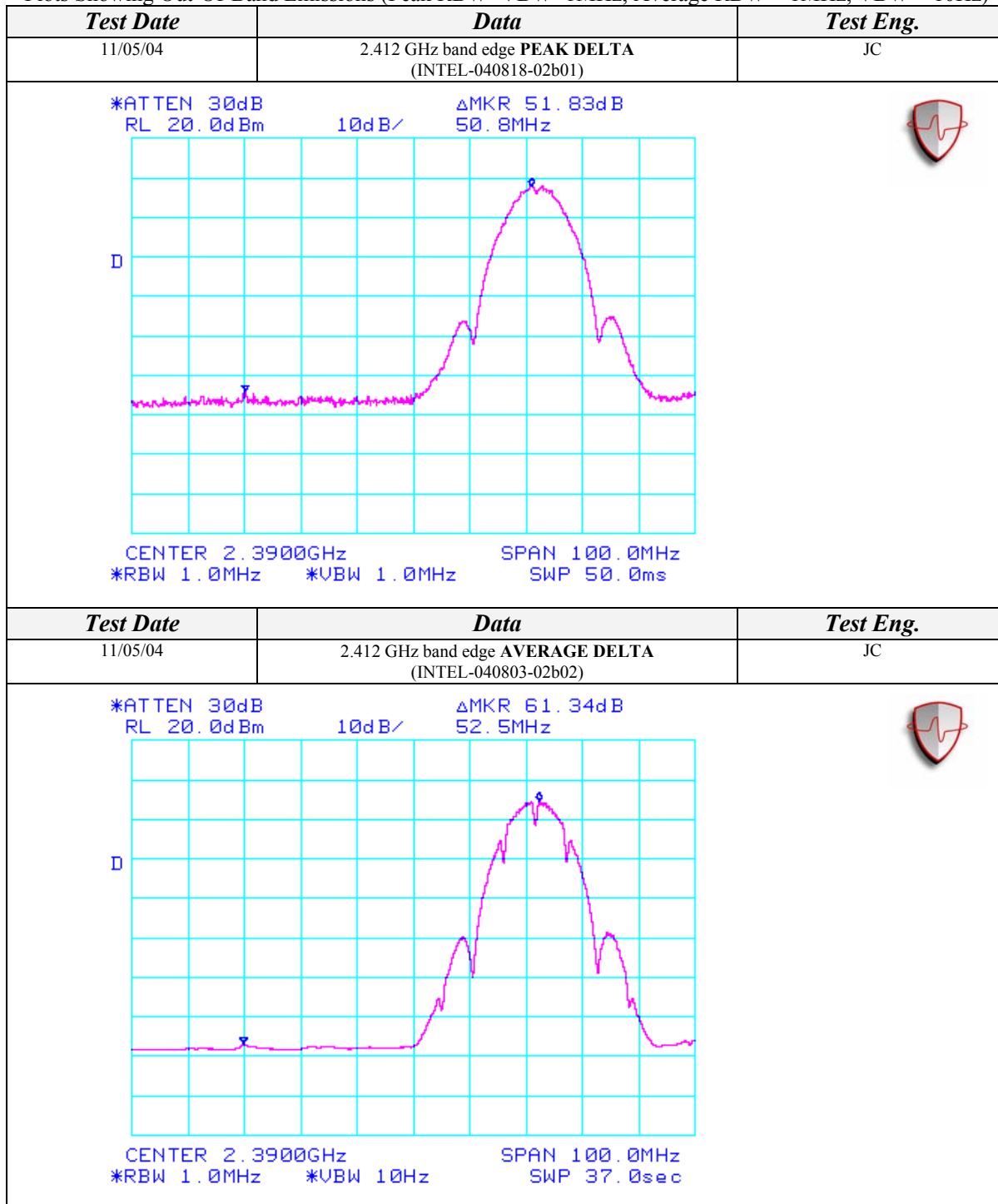
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



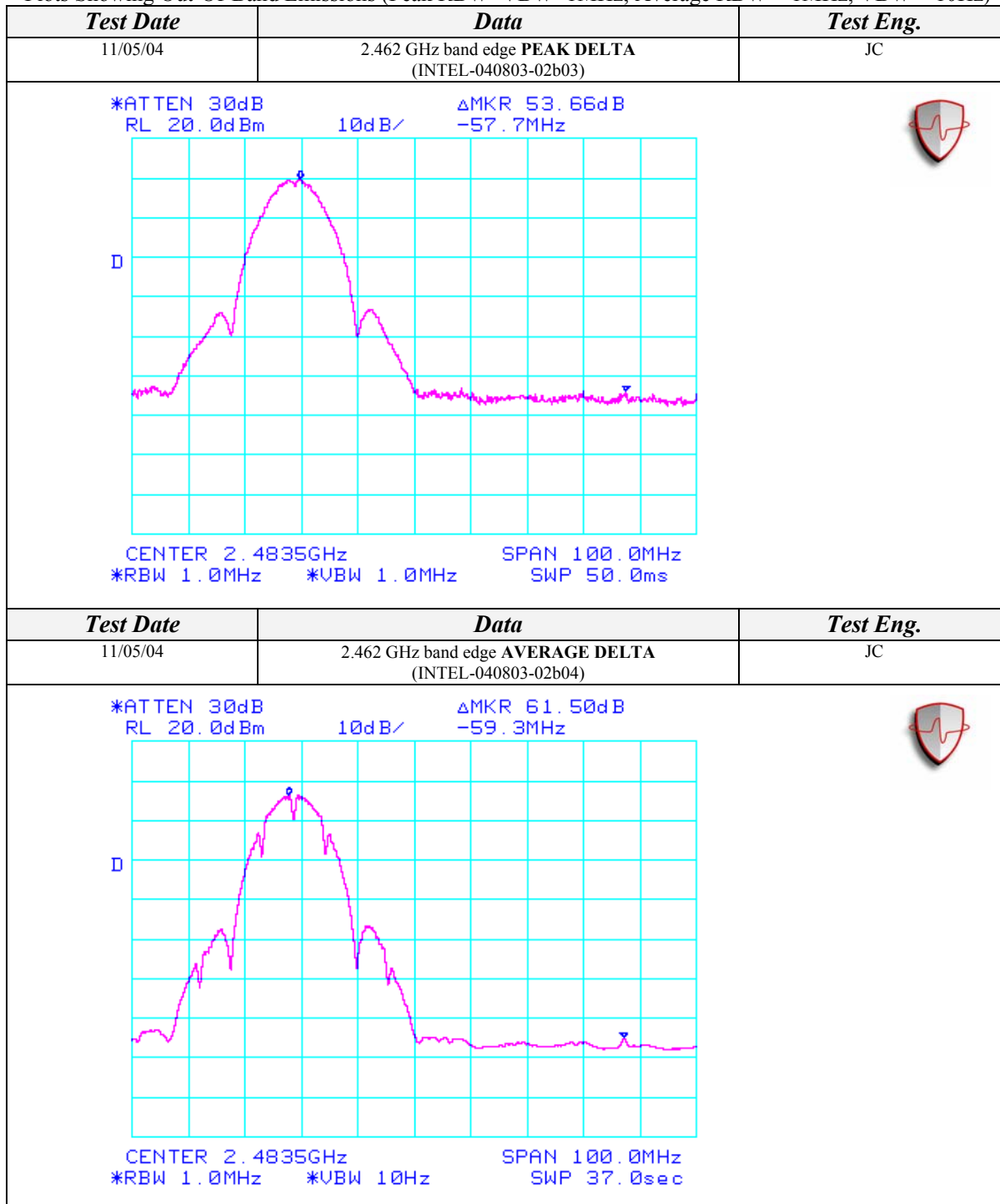
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



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## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11b mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with Foxconn (Sony I306) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-23*

| RADIATED EMISSIONS - Horizontal Antenna Polarization      |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
|-----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|---------------------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | 1 Meter<br>Distance<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2312.00                                                   | 30.50                      | 100                       | 135                  |                           |   | 9.54                                  | 3.23                    | 31.35                  | 55.54                          | 74.00            | -18.46              |
| 2312.00                                                   |                            |                           |                      | 14.64                     | A | 9.54                                  | 3.23                    | 31.35                  | 39.68                          | 54.00            | -14.32              |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2336.00                                                   | 31.67                      | 100                       | 135                  |                           |   | 9.54                                  | 3.25                    | 31.29                  | 56.67                          | 74.00            | -17.33              |
| 2336.00                                                   |                            |                           |                      | 15.10                     | A | 9.54                                  | 3.25                    | 31.29                  | 40.10                          | 54.00            | -13.90              |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2358.66                                                   | 31.17                      | 100                       | 180                  |                           |   | 9.54                                  | 3.26                    | 31.24                  | 56.13                          | 74.00            | -17.87              |
| 2358.66                                                   |                            |                           |                      | 14.26                     | A | 9.54                                  | 3.26                    | 31.24                  | 39.22                          | 54.00            | -14.78              |
| RADIATED EMISSIONS - Vertical Antenna Polarization        |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | 1 Meter<br>Distance<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2312.00                                                   | 30.67                      | 100                       | 135                  |                           |   | 9.54                                  | 3.23                    | 31.40                  | 55.76                          | 74.00            | -18.24              |
| 2312.00                                                   |                            |                           |                      | 14.22                     | A | 9.54                                  | 3.23                    | 31.40                  | 39.31                          | 54.00            | -14.69              |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2336.00                                                   | 30.50                      | 100                       | 135                  |                           |   | 9.54                                  | 3.25                    | 31.36                  | 55.57                          | 74.00            | -18.43              |
| 2336.00                                                   |                            |                           |                      | 14.48                     | A | 9.54                                  | 3.25                    | 31.36                  | 39.55                          | 54.00            | -14.45              |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2358.66                                                   | 30.67                      | 100                       | 135                  |                           |   | 9.54                                  | 3.26                    | 31.33                  | 55.72                          | 74.00            | -18.28              |
| 2358.66                                                   |                            |                           |                      | 14.19                     | A | 9.54                                  | 3.26                    | 31.33                  | 39.24                          | 54.00            | -14.76              |

NOTE: These spurious emissions measurements were taken without a preamp at a distance on 1 meter to avoid saturating the preamp and analyzer because the signals were close to the fundamental frequency. The readings were extrapolated to 1 meter.

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## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11b mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with Foxconn (Sony I306) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-24*

| RADIATED EMISSIONS - Horizontal Antenna Polarization      |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|-----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                   | 51.50                      | 100                       | 225                  |                           |   | 43.07                    | 3.89                    | 30.24                  | 42.56                          | 82.74            | -40.18              |
| 4824.01                                                   | 48.17                      | 100                       | 135                  |                           |   | 43.27                    | 4.73                    | 34.53                  | 44.16                          | 74.00            | -29.84              |
| 4824.01                                                   |                            |                           |                      | 36.62                     | A | 43.27                    | 4.73                    | 34.53                  | 32.61                          | 54.00            | -21.39              |
| 6431.98                                                   | 57.17                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 55.73                          | 82.74            | -27.01              |
| 9648.01                                                   | 50.00                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.88                  | 52.61                          | 82.74            | -30.13              |
| 12864.03                                                  | 49.67                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 43.86                  | 57.66                          | 82.74            | -25.08              |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.32                                                   | 51.17                      | 100                       | 225                  |                           |   | 43.08                    | 3.91                    | 30.25                  | 42.24                          | 85.20            | -42.96              |
| 4873.99                                                   | 49.33                      | 100                       | 135                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 45.53                          | 74.00            | -28.47              |
| 4873.99                                                   |                            |                           |                      | 39.89                     | A | 43.29                    | 4.77                    | 34.72                  | 36.09                          | 54.00            | -17.91              |
| 6498.69                                                   | 58.67                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.90                  | 57.50                          | 85.20            | -27.70              |
| 9747.96                                                   | 49.83                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.00                  | 52.56                          | 85.20            | -32.64              |
| 12997.37                                                  | 50.33                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.29                  | 58.81                          | 85.20            | -26.39              |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.69                                                   | 51.83                      | 100                       | 225                  |                           |   | 43.10                    | 3.91                    | 30.26                  | 42.90                          | 85.83            | -42.93              |
| 4924.00                                                   | 49.00                      | 100                       | 135                  |                           |   | 43.30                    | 4.81                    | 34.91                  | 45.41                          | 74.00            | -28.59              |
| 4924.00                                                   |                            |                           |                      | 38.36                     | A | 43.30                    | 4.81                    | 34.91                  | 34.77                          | 54.00            | -19.23              |
| 6565.34                                                   | 57.00                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.32                  | 56.31                          | 85.83            | -29.52              |
| 9848.01                                                   | 49.67                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.12                  | 52.53                          | 85.83            | -33.30              |
| 13130.67                                                  | 49.50                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.25                  | 58.12                          | 85.83            | -27.71              |

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## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization        |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|-----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                   | 49.83                      | 100                       | 180                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 41.09                          | 84.04            | -42.95              |
| 4823.98                                                   | 49.17                      | 100                       | 135                  |                           |   | 43.27                    | 4.73                    | 34.53                  | 45.16                          | 74.00            | -28.84              |
| 4823.98                                                   |                            |                           |                      | 38.48                     | A | 43.27                    | 4.73                    | 34.53                  | 34.47                          | 54.00            | -19.53              |
| 6431.95                                                   | 58.33                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 56.89                          | 84.04            | -27.15              |
| 9647.98                                                   | 49.67                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 52.37                          | 84.04            | -31.67              |
| 12864.01                                                  | 49.33                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 44.23                  | 57.68                          | 84.04            | -26.36              |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.32                                                   | 50.00                      | 100                       | 180                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 41.27                          | 85.85            | -44.58              |
| 4874.01                                                   | 51.33                      | 200                       | 135                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 47.53                          | 74.00            | -26.47              |
| 4874.01                                                   |                            |                           |                      | 44.87                     | A | 43.29                    | 4.77                    | 34.72                  | 41.07                          | 54.00            | -12.93              |
| 6498.66                                                   | 58.50                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.89                  | 57.33                          | 85.85            | -28.52              |
| 9748.04                                                   | 50.17                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.15                  | 53.05                          | 85.85            | -32.80              |
| 12997.35                                                  | 50.00                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.49                  | 58.68                          | 85.85            | -27.17              |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.66                                                   | 49.50                      | 100                       | 180                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 40.77                          | 87.50            | -46.73              |
| 4924.00                                                   | 49.33                      | 100                       | 135                  |                           |   | 43.30                    | 4.81                    | 34.91                  | 45.74                          | 74.00            | -28.26              |
| 4924.00                                                   |                            |                           |                      | 38.74                     | A | 43.30                    | 4.81                    | 34.91                  | 35.15                          | 54.00            | -18.85              |
| 6565.32                                                   | 55.33                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.38                  | 54.70                          | 87.50            | -32.80              |
| 9847.96                                                   | 49.83                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.33                  | 52.90                          | 87.50            | -34.60              |
| 13130.63                                                  | 49.17                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.45                  | 57.99                          | 87.50            | -29.51              |



AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in in802.11b mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous RX at MAIN Antenna port with Foxconn (Sony I306) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-24*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                  | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|-----------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3216.02                                                         | 52.17                      | 100                       | 225                  |                           |                          | 43.07                   | 3.89                   | 30.24                          | 43.23            | 80.00 -36.77        |
| 3216.02                                                         |                            |                           |                      | 45.19                     | A                        | 43.07                   | 3.89                   | 30.24                          | 36.25            | 60.00 -23.75        |
| 6432.00                                                         | 59.83                      | 100                       | 135                  |                           |                          | 43.82                   | 5.73                   | 36.64                          | 58.39            | 80.00 -21.61        |
| 6432.00                                                         |                            |                           |                      | 57.39                     | A                        | 43.82                   | 5.73                   | 36.64                          | 55.95            | 60.00 -4.05         |
| 9648.01                                                         | 50.83                      | 100                       | 135                  |                           |                          | 43.22                   | 6.95                   | 38.88                          | 53.44            | 80.00 -26.56        |
| 9648.01                                                         |                            |                           |                      | 38.78                     | A                        | 43.22                   | 6.95                   | 38.88                          | 41.39            | 60.00 -18.61        |
| <b>EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3249.32                                                         | 51.83                      | 125                       | 225                  |                           |                          | 43.08                   | 3.91                   | 30.25                          | 42.90            | 80.00 -37.10        |
| 3249.32                                                         |                            |                           |                      | 44.68                     | A                        | 43.08                   | 3.91                   | 30.25                          | 35.75            | 60.00 -24.25        |
| 6498.70                                                         | 61.50                      | 100                       | 135                  |                           |                          | 43.84                   | 5.78                   | 36.90                          | 60.33            | 80.00 -19.67        |
| 6498.70                                                         |                            |                           |                      | 58.98                     | A                        | 43.84                   | 5.78                   | 36.90                          | 57.81            | 60.00 -2.19         |
| 9747.99                                                         | 50.17                      | 100                       | 180                  |                           |                          | 43.25                   | 6.99                   | 39.00                          | 52.90            | 80.00 -27.10        |
| 9747.99                                                         |                            |                           |                      | 38.21                     | A                        | 43.25                   | 6.99                   | 39.00                          | 40.94            | 60.00 -19.06        |
| <b>EUT in Continuous Receive Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3282.66                                                         | 52.00                      | 100                       | 225                  |                           |                          | 43.10                   | 3.91                   | 30.26                          | 43.07            | 80.00 -36.93        |
| 3282.66                                                         |                            |                           |                      | 44.99                     | A                        | 43.10                   | 3.91                   | 30.26                          | 36.06            | 60.00 -23.94        |
| 6565.32                                                         | 58.83                      | 100                       | 135                  |                           |                          | 43.84                   | 5.83                   | 37.32                          | 58.14            | 80.00 -21.86        |
| 6565.32                                                         |                            |                           |                      | 56.23                     | A                        | 43.84                   | 5.83                   | 37.32                          | 55.54            | 60.00 -4.46         |
| 9848.01                                                         | 49.83                      | 100                       | 135                  |                           |                          | 43.29                   | 7.03                   | 39.12                          | 52.69            | 80.00 -27.31        |
| 9848.01                                                         |                            |                           |                      | 37.96                     | A                        | 43.29                   | 7.03                   | 39.12                          | 40.82            | 60.00 -19.18        |

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## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization       |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                           | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                  | 50.50                      | 100                       | 225                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 41.76                          | 80.00            | -38.24              |
| 3216.00                                                  |                            |                           |                      | 42.17                     | A | 43.07                    | 3.89                    | 30.44                  | 33.43                          | 60.00            | -26.57              |
| 6432.02                                                  | 58.33                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 56.89                          | 80.00            | -23.11              |
| 6432.02                                                  |                            |                           |                      | 55.23                     | A | 43.82                    | 5.73                    | 36.64                  | 53.79                          | 60.00            | -6.21               |
| 9648.02                                                  | 49.67                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 52.37                          | 80.00            | -27.63              |
| 9648.02                                                  |                            |                           |                      | 37.44                     | A | 43.22                    | 6.95                    | 38.97                  | 40.14                          | 60.00            | -19.86              |
| EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.32                                                  | 51.17                      | 100                       | 225                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 42.44                          | 80.00            | -37.56              |
| 3249.32                                                  |                            |                           |                      | 42.56                     | A | 43.08                    | 3.91                    | 30.45                  | 33.83                          | 60.00            | -26.17              |
| 6498.67                                                  | 58.83                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.89                  | 57.66                          | 80.00            | -22.34              |
| 6498.67                                                  |                            |                           |                      | 55.84                     | A | 43.84                    | 5.78                    | 36.89                  | 54.67                          | 60.00            | -5.33               |
| 9748.00                                                  | 50.00                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.15                  | 52.88                          | 80.00            | -27.12              |
| 9748.00                                                  |                            |                           |                      | 37.69                     | A | 43.25                    | 6.99                    | 39.15                  | 40.57                          | 60.00            | -19.43              |
| EUT in Continuous Receive Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.67                                                  | 50.83                      | 100                       | 180                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 42.10                          | 80.00            | -37.90              |
| 3282.67                                                  |                            |                           |                      | 42.19                     | A | 43.10                    | 3.91                    | 30.46                  | 33.46                          | 60.00            | -26.54              |
| 6565.32                                                  | 56.33                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.38                  | 55.70                          | 80.00            | -24.30              |
| 6565.32                                                  |                            |                           |                      | 52.61                     | A | 43.84                    | 5.83                    | 37.38                  | 51.98                          | 60.00            | -8.02               |
| 9847.98                                                  | 50.33                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.33                  | 53.40                          | 80.00            | -26.60              |
| 9847.98                                                  |                            |                           |                      | 38.01                     | A | 43.29                    | 7.03                    | 39.33                  | 41.08                          | 60.00            | -18.92              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

|                       |                                                                                                                                                    |                        |              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                                                  | <b>DATE:</b>           | 11/19/04     |
| <b>EUT:</b>           | Intel PRO/Wireless 2915ABG Network Connection                                                                                                      | <b>PROJECT NUMBER:</b> | INTEL-041021 |
| <b>MODEL NUMBER:</b>  | WM3B2915ABG                                                                                                                                        | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 344F96244ABC51962012                                                                                                                               | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in the Hewlett Packard host computer's mini PCI slot in <b>802.11g (2412-2462 MHz) mode with the Foxconn (Sony I306) antennas</b> | <b>TEMPERATURE:</b>    | 16 C         |
|                       |                                                                                                                                                    | <b>HUMIDITY:</b>       | 61% RH       |
|                       |                                                                                                                                                    | <b>TIME:</b>           | 9:00 AM      |

|                     |                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard:</b>    | FCC CFR 47, Part 15.247(c)                                                                                                                                                                         |
| <b>Description:</b> | Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc. |
| <b>Results:</b>     | Passes (See Data Sheets)                                                                                                                                                                           |

| Unwanted Spurious Emissions Limits |                       |                                                                |                                                                      |
|------------------------------------|-----------------------|----------------------------------------------------------------|----------------------------------------------------------------------|
| Frequency (MHz)                    | Field Strength (uV/m) | Field Strength (dBuV/m)<br>(Emissions in the restricted bands) | Field Strength (dBm/MHz)<br>(Emissions outside the restricted bands) |
| Above 960                          | 500                   | 54.00 (Average)<br>74.00 (Peak)                                | < -20 dBc                                                            |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11g mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with Foxconn (Sony I306) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-22*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 2412.00        | 71.33                      | 125                       | 135                  |                           |                          |                         | 3.30                   | 31.11                          | 105.74           |                     |
| 2412.00        |                            |                           |                      | 61.10                     | A                        |                         | 3.30                   | 31.11                          | 95.51            |                     |
| 2437.00        | 71.33                      | 125                       | 135                  |                           |                          |                         | 3.32                   | 31.05                          | 105.70           |                     |
| 2437.00        |                            |                           |                      | 61.17                     | A                        |                         | 3.32                   | 31.05                          | 95.54            |                     |
| 2462.00        | 71.83                      | 100                       | 135                  |                           |                          |                         | 3.34                   | 30.99                          | 106.16           |                     |
| 2462.00        |                            |                           |                      | 61.72                     | A                        |                         | 3.34                   | 30.99                          | 96.05            |                     |

### RADIATED EMISSIONS – Vertical Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 2412.00        | 71.50                      | 125                       | 90                   |                           |                          |                         | 3.30                   | 31.24                          | 106.04           |                     |
| 2412.00        |                            |                           |                      | 61.27                     | A                        |                         | 3.30                   | 31.24                          | 95.81            |                     |
| 2437.00        | 72.17                      | 125                       | 90                   |                           |                          |                         | 3.32                   | 31.20                          | 106.69           |                     |
| 2437.00        |                            |                           |                      | 61.98                     | A                        |                         | 3.32                   | 31.20                          | 96.50            |                     |
| 2462.00        | 74.00                      | 150                       | 315                  |                           |                          |                         | 3.34                   | 31.16                          | 108.50           |                     |
| 2462.00        |                            |                           |                      | 63.67                     | A                        |                         | 3.34                   | 31.16                          | 98.17            |                     |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.

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## Spurious Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11g mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with Foxconn (Sony I306) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-22*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 59.40                          | 74.00            | -14.60              |
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 44.84                          | 54.00            | -9.16               |
| 2400.00        | 47.33                      | 125                       | 135                  |                           |                          | 3.29                    | 31.14                  | 81.76                          | 85.74            | -3.98               |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 61.66                          | 74.00            | -12.34              |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 45.05                          | 54.00            | -8.95               |

### RADIATED EMISSIONS – Vertical Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 59.70                          | 74.00            | -14.30              |
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 45.14                          | 54.00            | -8.86               |
| 2400.00        | 47.17                      | 125                       | 90                   |                           |                          | 3.29                    | 31.26                  | 81.72                          | 86.04            | -4.32               |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 64.00                          | 74.00            | -10.00              |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 47.17                          | 54.00            | -6.83               |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = F_m - \Delta m$$

Where

BE = Band Edge Field Strength

F<sub>m</sub> = Measured Fundamental (Peak or Average)

Δ<sub>m</sub> = Measured Conducted Band Edge Delta (Peak or Average)

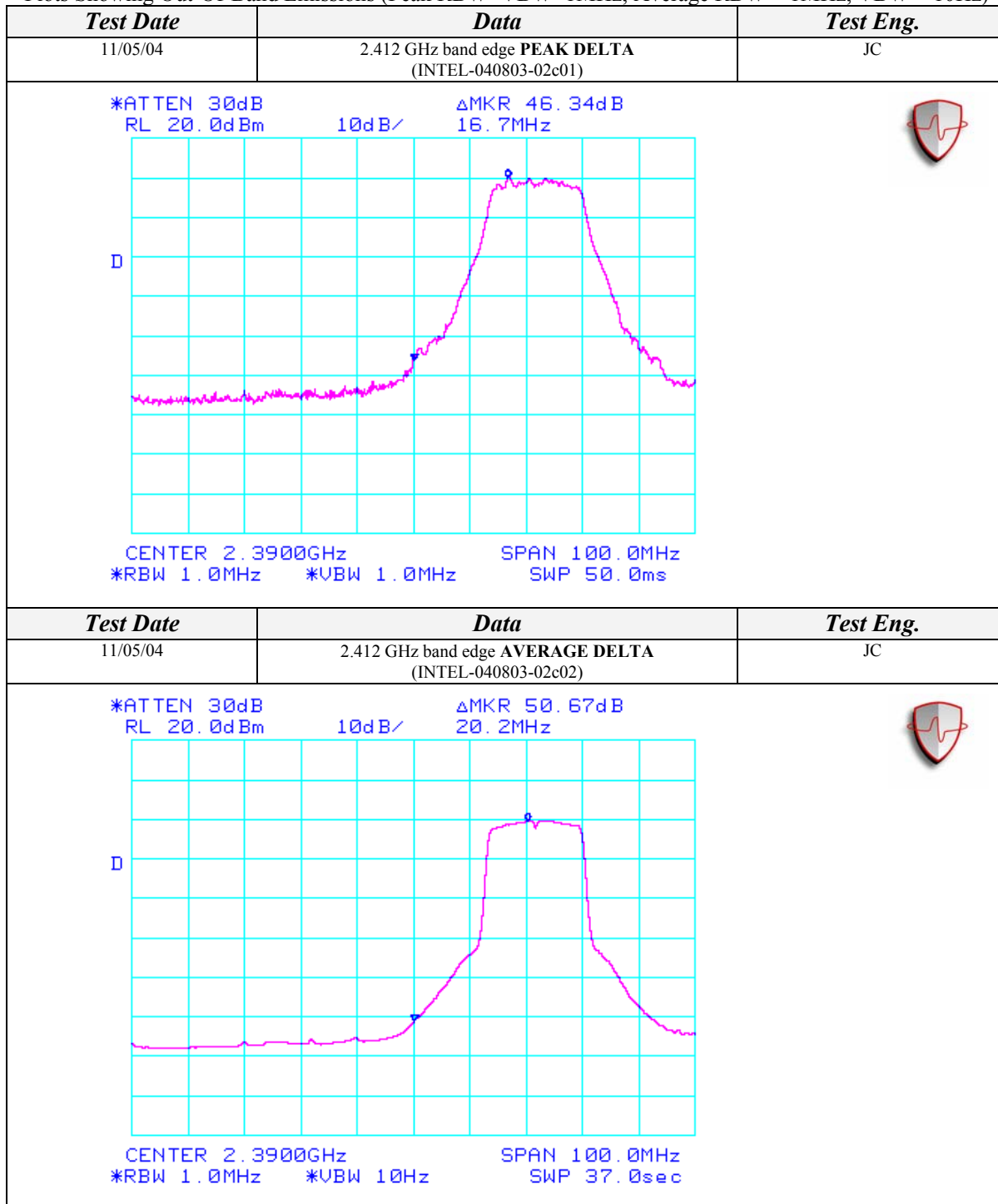
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



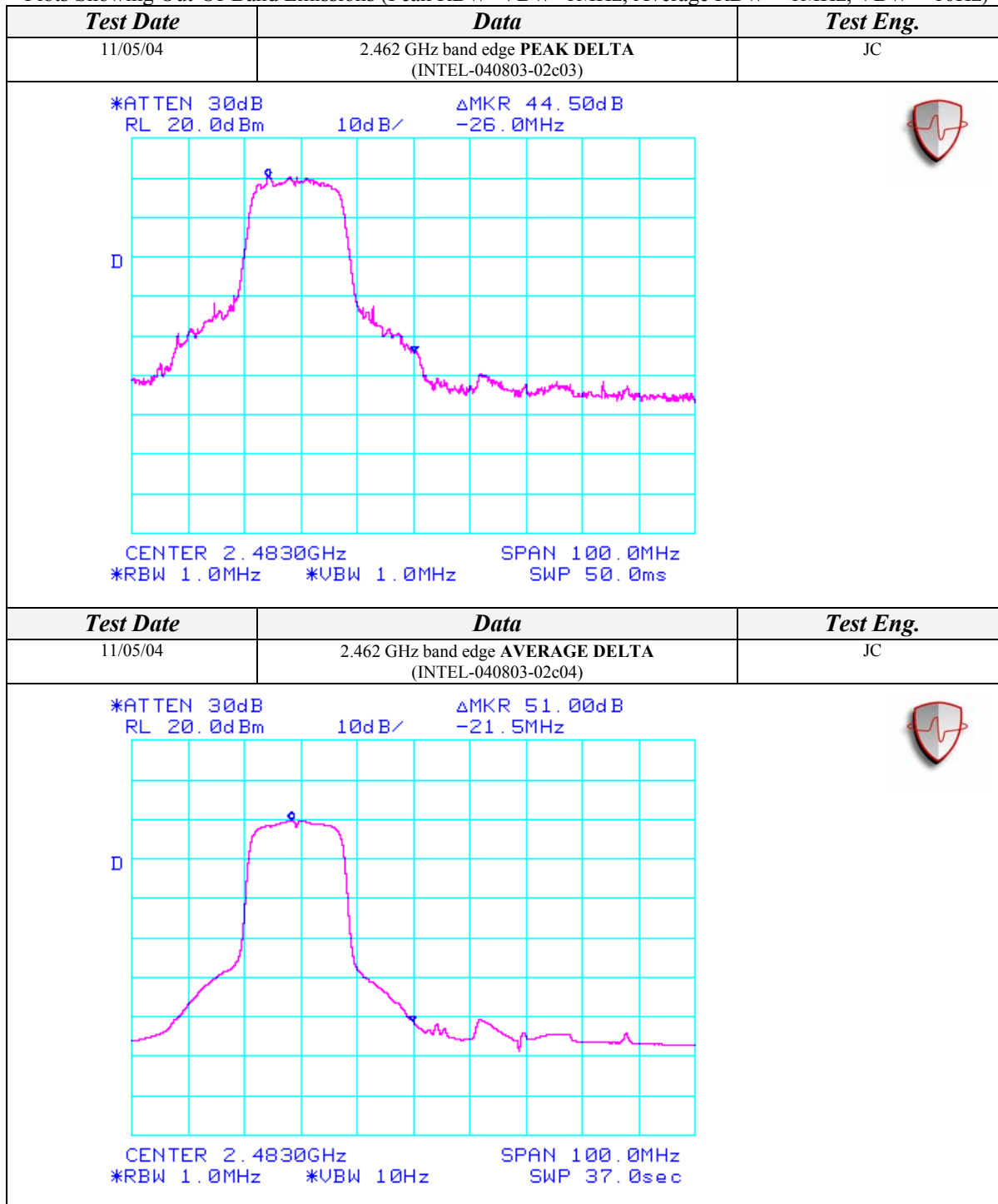
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11g mode (2412-2462 MHz)*  
*Channels 1, 6, & 11*  
**Continuous TX at MAIN Antenna port with Foxconn (Sony I306) Antennas**  
*Aegis Labs, Inc. File #: INTEL-041021-23*

| RADIATED EMISSIONS - Horizontal Antenna Polarization      |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
|-----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|---------------------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | 1 Meter<br>Distance<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2312.00                                                   | 32.00                      | 100                       | 135                  |                           |   | 9.54                                  | 3.23                    | 31.35                  | 57.04                          | 74.00            | -16.96              |
| 2312.00                                                   |                            |                           |                      | 19.38                     | A | 9.54                                  | 3.23                    | 31.35                  | 44.42                          | 54.00            | -9.58               |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2336.00                                                   | 31.83                      | 100                       | 135                  |                           |   | 9.54                                  | 3.25                    | 31.29                  | 56.83                          | 74.00            | -17.17              |
| 2336.00                                                   |                            |                           |                      | 18.86                     | A | 9.54                                  | 3.25                    | 31.29                  | 43.86                          | 54.00            | -10.14              |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2358.66                                                   | 31.67                      | 100                       | 135                  |                           |   | 9.54                                  | 3.26                    | 31.24                  | 56.63                          | 74.00            | -17.37              |
| 2358.66                                                   |                            |                           |                      | 16.89                     | A | 9.54                                  | 3.26                    | 31.24                  | 41.85                          | 54.00            | -12.15              |
| RADIATED EMISSIONS - Vertical Antenna Polarization        |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | 1 Meter<br>Distance<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2312.00                                                   | 31.33                      | 100                       | 135                  |                           |   | 9.54                                  | 3.23                    | 31.40                  | 56.42                          | 74.00            | -17.58              |
| 2312.00                                                   |                            |                           |                      | 16.77                     | A | 9.54                                  | 3.23                    | 31.40                  | 41.86                          | 54.00            | -12.14              |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2336.00                                                   | 31.50                      | 100                       | 135                  |                           |   | 9.54                                  | 3.25                    | 31.36                  | 56.57                          | 74.00            | -17.43              |
| 2336.00                                                   |                            |                           |                      | 16.18                     | A | 9.54                                  | 3.25                    | 31.36                  | 41.25                          | 54.00            | -12.75              |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2358.68                                                   | 31.00                      | 100                       | 135                  |                           |   | 9.54                                  | 3.26                    | 31.33                  | 56.05                          | 74.00            | -17.95              |
| 2358.68                                                   |                            |                           |                      | 14.50                     | A | 9.54                                  | 3.26                    | 31.33                  | 39.55                          | 54.00            | -14.45              |

NOTE: These spurious emissions measurements were taken without a preamp at a distance on 1 meter to avoid saturating the preamp and analyzer because the signals were close to the fundamental frequency. The readings were extrapolated to 1 meter.

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## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11g mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with Foxconn (Sony I306) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-24*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                          | 52.50                      | 100                       | 225                  |                           |   | 43.07                    | 3.89                    | 30.24                  | 43.56                          | 85.74            | -42.18              |
| 4824.20                                                          | 49.50                      | 100                       | 135                  |                           |   | 43.27                    | 4.73                    | 34.53                  | 45.50                          | 74.00            | -28.50              |
| 4824.20                                                          |                            |                           |                      | 37.35                     | A | 43.27                    | 4.73                    | 34.53                  | 33.35                          | 54.00            | -20.65              |
| 6432.05                                                          | 59.50                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 58.06                          | 85.74            | -27.68              |
| 9647.97                                                          | 49.50                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.88                  | 52.11                          | 85.74            | -33.63              |
| 12864.02                                                         | 50.17                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 43.86                  | 58.16                          | 85.74            | -27.58              |
| <b>EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.37                                                          | 51.17                      | 100                       | 225                  |                           |   | 43.08                    | 3.91                    | 30.25                  | 42.24                          | 85.70            | -43.46              |
| 4874.06                                                          | 48.67                      | 100                       | 135                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 44.87                          | 74.00            | -29.13              |
| 4874.06                                                          |                            |                           |                      | 36.21                     | A | 43.29                    | 4.77                    | 34.72                  | 32.41                          | 54.00            | -21.59              |
| 6498.69                                                          | 60.17                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.90                  | 59.00                          | 85.70            | -26.70              |
| 9748.09                                                          | 50.00                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.00                  | 52.73                          | 85.70            | -32.97              |
| 12997.35                                                         | 49.33                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.29                  | 57.81                          | 85.70            | -27.89              |
| <b>EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.68                                                          | 49.67                      | 100                       | 225                  |                           |   | 43.10                    | 3.91                    | 30.26                  | 40.74                          | 86.16            | -45.42              |
| 4923.82                                                          | 48.33                      | 100                       | 135                  |                           |   | 43.30                    | 4.81                    | 34.91                  | 44.74                          | 74.00            | -29.26              |
| 4923.82                                                          |                            |                           |                      | 35.98                     | A | 43.30                    | 4.81                    | 34.91                  | 32.39                          | 54.00            | -21.61              |
| 6565.42                                                          | 57.83                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.32                  | 57.14                          | 86.16            | -29.02              |
| 9847.97                                                          | 50.50                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.12                  | 53.36                          | 86.16            | -32.80              |
| 13130.70                                                         | 49.17                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.25                  | 57.79                          | 86.16            | -28.37              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization               |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| <b>EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.01                                                          | 50.17                      | 100                       | 180                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 41.43                          | 86.04            | -44.61              |
| 4823.97                                                          | 48.50                      | 100                       | 135                  |                           |   | 43.27                    | 4.73                    | 34.53                  | 44.49                          | 74.00            | -29.51              |
| 4823.97                                                          |                            |                           |                      | 36.91                     | A | 43.27                    | 4.73                    | 34.53                  | 32.90                          | 54.00            | -21.10              |
| 6432.01                                                          | 58.50                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 57.06                          | 86.04            | -28.98              |
| 9648.03                                                          | 49.33                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 52.03                          | 86.04            | -34.01              |
| 12863.98                                                         | 50.00                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 44.23                  | 58.35                          | 86.04            | -27.69              |
| <b>EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.35                                                          | 50.67                      | 100                       | 225                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 41.94                          | 86.69            | -44.75              |
| 4874.03                                                          | 48.83                      | 100                       | 135                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 45.03                          | 74.00            | -28.97              |
| 4874.03                                                          |                            |                           |                      | 37.46                     | A | 43.29                    | 4.77                    | 34.72                  | 33.66                          | 54.00            | -20.34              |
| 6498.67                                                          | 59.00                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.89                  | 57.83                          | 86.69            | -28.86              |
| 9748.00                                                          | 49.50                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.15                  | 52.38                          | 86.69            | -34.31              |
| 12997.30                                                         | 50.17                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.49                  | 58.85                          | 86.69            | -27.84              |
| <b>EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.65                                                          | 49.83                      | 100                       | 225                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 41.10                          | 88.50            | -47.40              |
| 4924.01                                                          | 48.00                      | 100                       | 135                  |                           |   | 43.30                    | 4.81                    | 34.91                  | 44.41                          | 74.00            | -29.59              |
| 4924.01                                                          |                            |                           |                      | 36.59                     | A | 43.30                    | 4.81                    | 34.91                  | 33.00                          | 54.00            | -21.00              |
| 6565.34                                                          | 57.83                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.38                  | 57.20                          | 88.50            | -31.30              |
| 9848.02                                                          | 50.00                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.33                  | 53.07                          | 88.50            | -35.43              |
| 13130.62                                                         | 49.67                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.45                  | 58.49                          | 88.50            | -30.01              |



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## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11g mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous RX at MAIN Antenna port with Foxconn (Sony I306) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-24*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                  | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|-----------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3216.00                                                         | 52.33                      | 100                       | 225                  |                           |                          | 43.07                   | 3.89                   | 30.24                          | 43.39            | 80.00 -36.61        |
| 3216.00                                                         |                            |                           |                      | 45.37                     | A                        | 43.07                   | 3.89                   | 30.24                          | 36.43            | 60.00 -23.57        |
| 6431.98                                                         | 59.83                      | 100                       | 135                  |                           |                          | 43.82                   | 5.73                   | 36.64                          | 58.39            | 80.00 -21.61        |
| 6431.98                                                         |                            |                           |                      | 57.52                     | A                        | 43.82                   | 5.73                   | 36.64                          | 56.08            | 60.00 -3.92         |
| 9648.00                                                         | 49.83                      | 100                       | 135                  |                           |                          | 43.22                   | 6.95                   | 38.88                          | 52.44            | 80.00 -27.56        |
| 9648.00                                                         |                            |                           |                      | 38.03                     | A                        | 43.22                   | 6.95                   | 38.88                          | 40.64            | 60.00 -19.36        |
| <b>EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3249.32                                                         | 52.83                      | 100                       | 225                  |                           |                          | 43.08                   | 3.91                   | 30.25                          | 43.90            | 80.00 -36.10        |
| 3249.32                                                         |                            |                           |                      | 46.29                     | A                        | 43.08                   | 3.91                   | 30.25                          | 37.36            | 60.00 -22.64        |
| 6498.67                                                         | 61.33                      | 100                       | 135                  |                           |                          | 43.84                   | 5.78                   | 36.89                          | 60.16            | 80.00 -19.84        |
| 6498.67                                                         |                            |                           |                      | 58.99                     | A                        | 43.84                   | 5.78                   | 36.89                          | 57.82            | 60.00 -2.18         |
| 9748.03                                                         | 49.50                      | 100                       | 135                  |                           |                          | 43.25                   | 6.99                   | 39.00                          | 52.23            | 80.00 -27.77        |
| 9748.03                                                         |                            |                           |                      | 37.56                     | A                        | 43.25                   | 6.99                   | 39.00                          | 40.29            | 60.00 -19.71        |
| <b>EUT in Continuous Receive Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3282.66                                                         | 51.67                      | 100                       | 225                  |                           |                          | 43.10                   | 3.91                   | 30.26                          | 42.74            | 80.00 -37.26        |
| 3282.66                                                         |                            |                           |                      | 44.62                     | A                        | 43.10                   | 3.91                   | 30.26                          | 35.69            | 60.00 -24.31        |
| 6565.32                                                         | 59.00                      | 100                       | 135                  |                           |                          | 43.84                   | 5.83                   | 37.32                          | 58.31            | 80.00 -21.69        |
| 6565.32                                                         |                            |                           |                      | 56.38                     | A                        | 43.84                   | 5.83                   | 37.32                          | 55.69            | 60.00 -4.31         |
| 9848.00                                                         | 50.17                      | 100                       | 135                  |                           |                          | 43.29                   | 7.03                   | 39.12                          | 53.03            | 80.00 -26.97        |
| 9848.00                                                         |                            |                           |                      | 38.41                     | A                        | 43.29                   | 7.03                   | 39.12                          | 41.27            | 60.00 -18.73        |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization       |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                           | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                  | 50.67                      | 100                       | 180                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 41.93                          | 80.00            | -38.07              |
| 3216.00                                                  |                            |                           |                      | 42.84                     | A | 43.07                    | 3.89                    | 30.44                  | 34.10                          | 60.00            | -25.90              |
| 6432.01                                                  | 57.83                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 56.39                          | 80.00            | -23.61              |
| 6432.01                                                  |                            |                           |                      | 54.76                     | A | 43.82                    | 5.73                    | 36.64                  | 53.32                          | 60.00            | -6.68               |
| 9648.00                                                  | 49.50                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 52.20                          | 80.00            | -27.80              |
| 9648.00                                                  |                            |                           |                      | 37.68                     | A | 43.22                    | 6.95                    | 38.97                  | 40.38                          | 60.00            | -19.62              |
| EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.33                                                  | 51.00                      | 100                       | 180                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 42.27                          | 80.00            | -37.73              |
| 3249.33                                                  |                            |                           |                      | 43.59                     | A | 43.08                    | 3.91                    | 30.45                  | 34.86                          | 60.00            | -25.14              |
| 6498.69                                                  | 59.00                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.90                  | 57.83                          | 80.00            | -22.17              |
| 6498.69                                                  |                            |                           |                      | 55.39                     | A | 43.84                    | 5.78                    | 36.90                  | 54.22                          | 60.00            | -5.78               |
| 9748.03                                                  | 49.83                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.15                  | 52.71                          | 80.00            | -27.29              |
| 9748.03                                                  |                            |                           |                      | 37.96                     | A | 43.25                    | 6.99                    | 39.15                  | 40.84                          | 60.00            | -19.16              |
| EUT in Continuous Receive Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.67                                                  | 50.83                      | 100                       | 180                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 42.10                          | 80.00            | -37.90              |
| 3282.67                                                  |                            |                           |                      | 42.02                     | A | 43.10                    | 3.91                    | 30.46                  | 33.29                          | 60.00            | -26.71              |
| 6565.34                                                  | 56.17                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.38                  | 55.54                          | 80.00            | -24.46              |
| 6565.34                                                  |                            |                           |                      | 51.86                     | A | 43.84                    | 5.83                    | 37.38                  | 51.23                          | 60.00            | -8.77               |
| 9848.04                                                  | 50.00                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.33                  | 53.07                          | 80.00            | -26.93              |
| 9848.04                                                  |                            |                           |                      | 38.12                     | A | 43.29                    | 7.03                    | 39.33                  | 41.19                          | 60.00            | -18.81              |

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**AEGIS LABS INC.**

***Phycomp/Yageo Corporation (Sony I275)***  
***TEST DATA***

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

|                       |                                                                                                                                                                       |                        |              |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                                                                     | <b>DATE:</b>           | 11/22/04     |
| <b>EUT:</b>           | Intel PRO/Wireless 2915ABG Network Connection                                                                                                                         | <b>PROJECT NUMBER:</b> | INTEL-041021 |
| <b>MODEL NUMBER:</b>  | WM3B2915ABG                                                                                                                                                           | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 344F96244ABC51962012                                                                                                                                                  | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in the Hewlett Packard host computer's mini PCI slot in <b>802.11a (5745-5825 MHz) mode with the Phycomp/Yageo Corporation (Sony I275) antennas.</b> | <b>TEMPERATURE:</b>    | 11 C         |
|                       |                                                                                                                                                                       | <b>HUMIDITY:</b>       | 50% RH       |
|                       |                                                                                                                                                                       | <b>TIME:</b>           | 11:15 AM     |

|                     |                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard:</b>    | FCC CFR 47, Part 15.247(c)                                                                                                                                                                         |
| <b>Description:</b> | Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc. |
| <b>Results:</b>     | Passes (See Data Sheets)                                                                                                                                                                           |

| Unwanted Spurious Emissions Limits |                       |                                                                |                                                                      |
|------------------------------------|-----------------------|----------------------------------------------------------------|----------------------------------------------------------------------|
| Frequency (MHz)                    | Field Strength (uV/m) | Field Strength (dBuV/m)<br>(Emissions in the restricted bands) | Field Strength (dBm/MHz)<br>(Emissions outside the restricted bands) |
| Above 960                          | 500                   | 54.00 (Average)<br>74.00 (Peak)                                | < -20 dBc                                                            |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

### *Fundamental Measurements in 802.11a mode (5745-5825 MHz)*

*Channels 149, 157, & 169*

*Continuous TX at MAIN Antenna port with **Phycomp/Yageo Corporation (Sony I275) Antennas***

*Aegis Labs, Inc. File #: INTEL-041021-25*

#### **RADIATED EMISSIONS - Horizontal Antenna Polarization**

| <i>Freq.<br/>(MHz)</i> | <i>Meter<br/>Reading<br/>(dBuV)</i> | <i>Antenna<br/>Height<br/>(cm)</i> | <i>Azimuth<br/>(degrees)</i> | <i>Quasi pk or<br/>AVG (dBuV)</i> |   | <i>Preamp<br/>Factor<br/>(dB)</i> | <i>Cable<br/>Factor<br/>(dB)</i> | <i>Ant.<br/>Factor<br/>(dB)</i> | <i>Corrected<br/>Reading<br/>(dBuV)</i> | <i>Limits<br/>(dBuV)</i> | <i>Diff (dB)<br/>+=FAIL</i> |
|------------------------|-------------------------------------|------------------------------------|------------------------------|-----------------------------------|---|-----------------------------------|----------------------------------|---------------------------------|-----------------------------------------|--------------------------|-----------------------------|
| 5745.00                | 61.00                               | 100                                | 225                          |                                   |   |                                   | 5.25                             | 34.85                           | 101.09                                  |                          |                             |
| 5745.00                |                                     |                                    |                              | 51.89                             | A |                                   | 5.25                             | 34.85                           | 91.98                                   |                          |                             |
| 5785.00                | 61.67                               | 100                                | 225                          |                                   |   |                                   | 5.27                             | 34.87                           | 101.81                                  |                          |                             |
| 5785.00                |                                     |                                    |                              | 52.66                             | A |                                   | 5.27                             | 34.87                           | 92.80                                   |                          |                             |
| 5825.00                | 62.50                               | 125                                | 315                          |                                   |   |                                   | 5.30                             | 34.90                           | 102.70                                  |                          |                             |
| 5825.00                |                                     |                                    |                              | 53.48                             | A |                                   | 5.30                             | 34.90                           | 93.68                                   |                          |                             |

#### **RADIATED EMISSIONS – Vertical Antenna Polarization**

| <i>Freq.<br/>(MHz)</i> | <i>Meter<br/>Reading<br/>(dBuV)</i> | <i>Antenna<br/>Height<br/>(cm)</i> | <i>Azimuth<br/>(degrees)</i> | <i>Quasi pk or<br/>AVG (dBuV)</i> |   | <i>Preamp<br/>Factor<br/>(dB)</i> | <i>Cable<br/>Factor<br/>(dB)</i> | <i>Ant.<br/>Factor<br/>(dB)</i> | <i>Corrected<br/>Reading<br/>(dBuV)</i> | <i>Limits<br/>(dBuV)</i> | <i>Diff (dB)<br/>+=FAIL</i> |
|------------------------|-------------------------------------|------------------------------------|------------------------------|-----------------------------------|---|-----------------------------------|----------------------------------|---------------------------------|-----------------------------------------|--------------------------|-----------------------------|
| 5745.00                | 63.83                               | 100                                | 135                          |                                   |   |                                   | 5.25                             | 34.85                           | 103.92                                  |                          |                             |
| 5745.00                |                                     |                                    |                              | 54.50                             | A |                                   | 5.25                             | 34.85                           | 94.59                                   |                          |                             |
| 5785.00                | 64.00                               | 125                                | 135                          |                                   |   |                                   | 5.27                             | 34.87                           | 104.14                                  |                          |                             |
| 5785.00                |                                     |                                    |                              | 54.86                             | A |                                   | 5.27                             | 34.87                           | 95.00                                   |                          |                             |
| 5825.00                | 62.83                               | 100                                | 135                          |                                   |   |                                   | 5.30                             | 34.90                           | 103.03                                  |                          |                             |
| 5825.00                |                                     |                                    |                              | 53.69                             | A |                                   | 5.30                             | 34.90                           | 93.89                                   |                          |                             |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

### *Band Edge Field Strength Measurements in 802.11a mode (5745-5825 MHz)*

*Channels 149, 157, & 169*

*Continuous TX at MAIN Antenna port with **Phycomp/Yageo Corporation (Sony I275) Antennas***

*Aegis Labs, Inc. File #: INTEL-041021-25*

#### **RADIATED EMISSIONS - Horizontal Antenna Polarization**

| <i>Freq.<br/>(MHz)</i> | <i>Meter<br/>Reading<br/>(dBuV)</i> | <i>Antenna<br/>Height<br/>(cm)</i> | <i>Azimuth<br/>(degrees)</i> | <i>Quasi pk or<br/>AVG (dBuV)</i> | <i>Preamp<br/>Factor<br/>(dB)</i> | <i>Cable<br/>Factor<br/>(dB)</i> | <i>Ant.<br/>Factor<br/>(dB)</i> | <i>Corrected<br/>Reading<br/>(dBuV)</i> | <i>Limits<br/>(dBuV)</i> | <i>Diff (dB)<br/>+=FAIL</i> |
|------------------------|-------------------------------------|------------------------------------|------------------------------|-----------------------------------|-----------------------------------|----------------------------------|---------------------------------|-----------------------------------------|--------------------------|-----------------------------|
| 5725.00                | 32.83                               | 100                                | 225                          |                                   |                                   | 5.23                             | 34.84                           | 72.90                                   | 81.09                    | -8.20                       |
| 5850.00                | 29.83                               | 125                                | 315                          |                                   |                                   | 5.32                             | 34.91                           | 70.06                                   | 82.70                    | -12.64                      |

#### **RADIATED EMISSIONS – Vertical Antenna Polarization**

| <i>Freq.<br/>(MHz)</i> | <i>Meter<br/>Reading<br/>(dBuV)</i> | <i>Antenna<br/>Height<br/>(cm)</i> | <i>Azimuth<br/>(degrees)</i> | <i>Quasi pk or<br/>AVG (dBuV)</i> | <i>Preamp<br/>Factor<br/>(dB)</i> | <i>Cable<br/>Factor<br/>(dB)</i> | <i>Ant.<br/>Factor<br/>(dB)</i> | <i>Corrected<br/>Reading<br/>(dBuV)</i> | <i>Limits<br/>(dBuV)</i> | <i>Diff (dB)<br/>+=FAIL</i> |
|------------------------|-------------------------------------|------------------------------------|------------------------------|-----------------------------------|-----------------------------------|----------------------------------|---------------------------------|-----------------------------------------|--------------------------|-----------------------------|
| 5725.00                | 35.67                               | 100                                | 135                          |                                   |                                   | 5.23                             | 34.84                           | 75.74                                   | 83.92                    | -8.19                       |
| 5850.00                | 30.17                               | 100                                | 135                          |                                   |                                   | 5.32                             | 34.91                           | 70.40                                   | 83.03                    | -12.63                      |

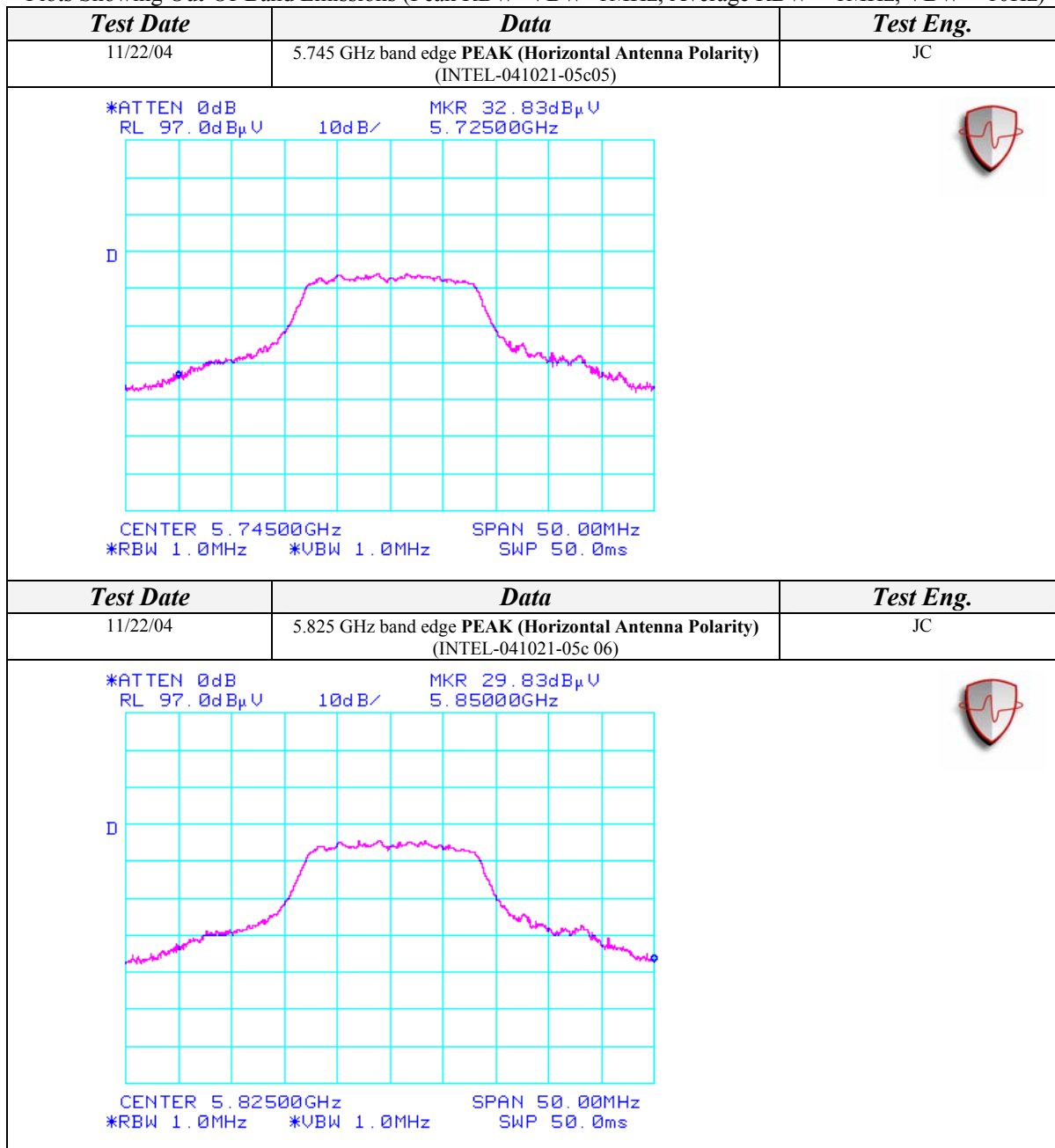
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



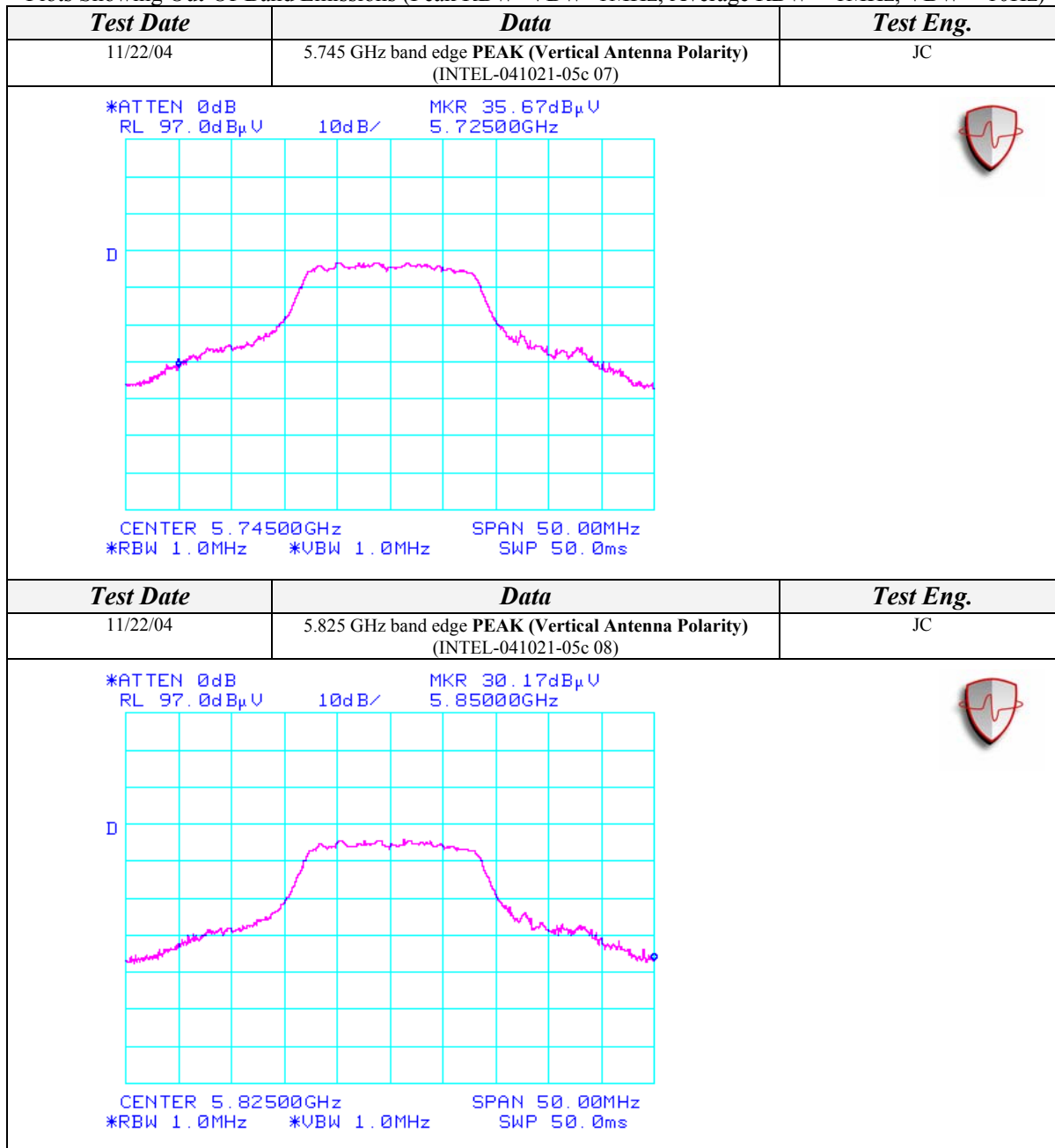
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

### *Spurious Emissions Measurements in 802.11a mode (5745-5825 MHz)*

*Channels 149, 157, & 169*

*Continuous TX at MAIN Antenna port with **Phycomp/Yageo Corporation (Sony I275) Antennas***

*Aegis Labs, Inc. File #: INTEL-041021-27*

#### **RADIATED EMISSIONS - Horizontal Antenna Polarization**

| <i>Freq.<br/>(MHz)</i>                                            | <i>Meter<br/>Reading<br/>(dBuV)</i> | <i>Antenna<br/>Height<br/>(cm)</i> | <i>Azimuth<br/>(degrees)</i> | <i>Quasi pk or<br/>AVG (dBuV)</i> |   | <i>Preamp<br/>Factor<br/>(dB)</i> | <i>Cable<br/>Factor<br/>(dB)</i> | <i>Ant.<br/>Factor<br/>(dB)</i> | <i>Corrected<br/>Reading<br/>(dBuV)</i> | <i>Limits<br/>(dBuV)</i> | <i>Diff (dB)<br/>+=FAIL</i> |
|-------------------------------------------------------------------|-------------------------------------|------------------------------------|------------------------------|-----------------------------------|---|-----------------------------------|----------------------------------|---------------------------------|-----------------------------------------|--------------------------|-----------------------------|
| <b>EUT in Continuous Transmit Mode on Channel 149 (5.745 GHz)</b> |                                     |                                    |                              |                                   |   |                                   |                                  |                                 |                                         |                          |                             |
| 3830.00                                                           | 57.83                               | 100                                | 45                           |                                   |   | 43.17                             | 4.18                             | 31.16                           | 50.00                                   | 74.00                    | -24.00                      |
| 3830.00                                                           |                                     |                                    |                              | 54.32                             | A | 43.17                             | 4.18                             | 31.16                           | 46.49                                   | 54.00                    | -7.51                       |
| 7660.00                                                           | 52.17                               | 100                                | 135                          |                                   |   | 43.62                             | 6.27                             | 40.05                           | 54.87                                   | 74.00                    | -19.13                      |
| 7660.00                                                           |                                     |                                    |                              | 44.08                             | A | 43.62                             | 6.27                             | 40.05                           | 46.78                                   | 54.00                    | -7.22                       |
| 11490.00                                                          | 51.33                               | 100                                | 135                          |                                   |   | 43.50                             | 7.64                             | 41.18                           | 56.65                                   | 74.00                    | -17.35                      |
| 11490.00                                                          |                                     |                                    |                              | 41.46                             | A | 43.50                             | 7.64                             | 41.18                           | 46.78                                   | 54.00                    | -7.22                       |
| 15319.89                                                          | 49.17                               | 100                                | 135                          |                                   |   | 43.39                             | 8.80                             | 41.49                           | 56.07                                   | 81.09                    | -25.02                      |
| <b>EUT in Continuous Transmit Mode on Channel 157 (5.785 GHz)</b> |                                     |                                    |                              |                                   |   |                                   |                                  |                                 |                                         |                          |                             |
| 3856.66                                                           | 61.17                               | 100                                | 45                           |                                   |   | 43.17                             | 4.21                             | 31.23                           | 53.43                                   | 74.00                    | -20.57                      |
| 3856.66                                                           |                                     |                                    |                              | 58.84                             | A | 43.17                             | 4.21                             | 31.23                           | 51.10                                   | 54.00                    | -2.90                       |
| 7713.33                                                           | 52.00                               | 100                                | 135                          |                                   |   | 43.60                             | 6.29                             | 40.20                           | 54.89                                   | 74.00                    | -19.11                      |
| 7713.33                                                           |                                     |                                    |                              | 44.26                             | A | 43.60                             | 6.29                             | 40.20                           | 47.15                                   | 54.00                    | -6.85                       |
| 11569.98                                                          | 49.33                               | 100                                | 135                          |                                   |   | 43.48                             | 7.66                             | 41.38                           | 54.90                                   | 74.00                    | -19.10                      |
| 11569.98                                                          |                                     |                                    |                              | 38.74                             | A | 43.48                             | 7.66                             | 41.38                           | 44.31                                   | 54.00                    | -9.69                       |
| 15426.58                                                          | 49.17                               | 100                                | 135                          |                                   |   | 43.35                             | 8.80                             | 41.56                           | 56.18                                   | 74.00                    | -17.82                      |
| 15426.58                                                          |                                     |                                    |                              | 37.28                             | A | 43.35                             | 8.80                             | 41.56                           | 44.29                                   | 54.00                    | -9.71                       |
| <b>EUT in Continuous Transmit Mode on Channel 165 (5.825 GHz)</b> |                                     |                                    |                              |                                   |   |                                   |                                  |                                 |                                         |                          |                             |
| 3883.34                                                           | 57.00                               | 100                                | 45                           |                                   |   | 43.17                             | 4.23                             | 31.30                           | 49.35                                   | 74.00                    | -24.65                      |
| 3883.34                                                           |                                     |                                    |                              | 53.07                             | A | 43.17                             | 4.23                             | 31.30                           | 45.42                                   | 54.00                    | -8.58                       |
| 7766.66                                                           | 53.50                               | 100                                | 135                          |                                   |   | 43.58                             | 6.32                             | 40.35                           | 56.58                                   | 82.70                    | -26.12                      |
| 11650.00                                                          | 50.50                               | 100                                | 135                          |                                   |   | 43.45                             | 7.69                             | 41.59                           | 56.33                                   | 74.00                    | -17.67                      |
| 11650.00                                                          |                                     |                                    |                              | 39.12                             | A | 43.45                             | 7.69                             | 41.59                           | 44.95                                   | 54.00                    | -9.05                       |
| 15533.23                                                          | 49.83                               | 100                                | 135                          |                                   |   | 43.35                             | 8.82                             | 41.71                           | 57.01                                   | 74.00                    | -16.99                      |
| 15533.23                                                          |                                     |                                    |                              | 38.26                             | A | 43.35                             | 8.82                             | 41.71                           | 45.44                                   | 54.00                    | -8.56                       |

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## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization         |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                             | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 149 (5.745 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3830.00                                                    | 60.00                      | 100                       | 45                   |                           |   | 43.17                    | 4.18                    | 31.09                  | 52.11                          | 74.00            | -21.89              |
| 3830.00                                                    |                            |                           |                      | 57.13                     | A | 43.17                    | 4.18                    | 31.09                  | 49.24                          | 54.00            | -4.76               |
| 7660.00                                                    | 51.00                      | 100                       | 135                  |                           |   | 43.62                    | 6.27                    | 40.11                  | 53.77                          | 74.00            | -20.23              |
| 7660.00                                                    |                            |                           |                      | 40.57                     | A | 43.62                    | 6.27                    | 40.11                  | 43.34                          | 54.00            | -10.66              |
| 11490.00                                                   | 50.67                      | 100                       | 135                  |                           |   | 43.50                    | 7.64                    | 41.66                  | 56.47                          | 74.00            | -17.53              |
| 11490.00                                                   |                            |                           |                      | 40.76                     | A | 43.50                    | 7.64                    | 41.66                  | 46.56                          | 54.00            | -7.44               |
| EUT in Continuous Transmit Mode on Channel 157 (5.785 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3856.66                                                    | 61.50                      | 100                       | 135                  |                           |   | 43.17                    | 4.21                    | 31.14                  | 53.68                          | 74.00            | -20.32              |
| 3856.66                                                    |                            |                           |                      | 59.04                     | A | 43.17                    | 4.21                    | 31.14                  | 51.22                          | 54.00            | -2.78               |
| 7713.33                                                    | 51.50                      | 100                       | 135                  |                           |   | 43.60                    | 6.29                    | 40.28                  | 54.48                          | 74.00            | -19.52              |
| 7713.33                                                    |                            |                           |                      | 41.80                     | A | 43.60                    | 6.29                    | 40.28                  | 44.78                          | 54.00            | -9.22               |
| 11569.98                                                   | 49.50                      | 100                       | 135                  |                           |   | 43.48                    | 7.66                    | 41.81                  | 55.50                          | 74.00            | -18.50              |
| 11569.98                                                   |                            |                           |                      | 38.85                     | A | 43.48                    | 7.66                    | 41.81                  | 44.85                          | 54.00            | -9.15               |
| EUT in Continuous Transmit Mode on Channel 165 (5.825 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3883.33                                                    | 59.83                      | 100                       | 90                   |                           |   | 43.17                    | 4.23                    | 31.19                  | 52.08                          | 74.00            | -21.92              |
| 3883.33                                                    |                            |                           |                      | 57.48                     | A | 43.17                    | 4.23                    | 31.19                  | 49.73                          | 54.00            | -4.27               |
| 7766.66                                                    | 52.50                      | 100                       | 135                  |                           |   | 43.58                    | 6.32                    | 40.45                  | 55.69                          | 83.03            | -27.34              |
| 11650.00                                                   | 49.83                      | 100                       | 135                  |                           |   | 43.45                    | 7.69                    | 41.94                  | 56.01                          | 74.00            | -17.99              |
| 11650.00                                                   |                            |                           |                      | 38.85                     | A | 43.45                    | 7.69                    | 41.94                  | 45.03                          | 54.00            | -8.97               |

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## Spurious Radiated Emissions Test Results (Continued)

### *Spurious Emissions Measurements in 802.11a mode (5745-5825 MHz)*

*Channels 149, 157, & 169*

**Continuous RX at MAIN Antenna port with *Phycomp/Yageo Corporation (Sony I275) Antennas***  
*Aegis Labs, Inc. File #: INTEL-041021-27*

#### **RADIATED EMISSIONS - Horizontal Antenna Polarization**

| <i>Freq.<br/>(MHz)</i>                                           | <i>Meter<br/>Reading<br/>(dBuV)</i> | <i>Antenna<br/>Height<br/>(cm)</i> | <i>Azimuth<br/>(degrees)</i> | <i>Quasi pk or<br/>AVG (dBuV)</i> |   | <i>Preamp<br/>Factor<br/>(dB)</i> | <i>Cable<br/>Factor<br/>(dB)</i> | <i>Ant.<br/>Factor<br/>(dB)</i> | <i>Corrected<br/>Reading<br/>(dBuV)</i> | <i>Limits<br/>(dBuV)</i> | <i>Diff (dB)<br/>+=FAIL</i> |
|------------------------------------------------------------------|-------------------------------------|------------------------------------|------------------------------|-----------------------------------|---|-----------------------------------|----------------------------------|---------------------------------|-----------------------------------------|--------------------------|-----------------------------|
| <b>EUT in Continuous Receive Mode on Channel 149 (5.745 GHz)</b> |                                     |                                    |                              |                                   |   |                                   |                                  |                                 |                                         |                          |                             |
| 3830.00                                                          | 50.67                               | 100                                | 180                          |                                   |   | 43.17                             | 4.18                             | 31.16                           | 42.84                                   | 80.00                    | -37.16                      |
| 3830.00                                                          |                                     |                                    |                              | 42.46                             | A | 43.17                             | 4.18                             | 31.16                           | 34.63                                   | 60.00                    | -25.37                      |
| 7660.00                                                          | 52.50                               | 100                                | 135                          |                                   |   | 43.62                             | 6.27                             | 40.05                           | 55.20                                   | 80.00                    | -24.80                      |
| 7660.00                                                          |                                     |                                    |                              | 45.76                             | A | 43.62                             | 6.27                             | 40.05                           | 48.46                                   | 60.00                    | -11.54                      |
| 11489.92                                                         | 51.17                               | 100                                | 135                          |                                   |   | 43.50                             | 7.64                             | 41.18                           | 56.49                                   | 80.00                    | -23.51                      |
| 11489.92                                                         |                                     |                                    |                              | 41.32                             | A | 43.50                             | 7.64                             | 41.18                           | 46.64                                   | 60.00                    | -13.36                      |
| <b>EUT in Continuous Receive Mode on Channel 157 (5.785 GHz)</b> |                                     |                                    |                              |                                   |   |                                   |                                  |                                 |                                         |                          |                             |
| 3856.62                                                          | 52.00                               | 100                                | 135                          |                                   |   | 43.17                             | 4.21                             | 31.23                           | 44.26                                   | 80.00                    | -35.74                      |
| 3856.62                                                          |                                     |                                    |                              | 43.76                             | A | 43.17                             | 4.21                             | 31.23                           | 36.02                                   | 60.00                    | -23.98                      |
| 7713.32                                                          | 52.33                               | 100                                | 135                          |                                   |   | 43.60                             | 6.29                             | 40.20                           | 55.22                                   | 80.00                    | -24.78                      |
| 7713.32                                                          |                                     |                                    |                              | 45.74                             | A | 43.60                             | 6.29                             | 40.20                           | 48.63                                   | 60.00                    | -11.37                      |
| 11569.92                                                         | 50.17                               | 100                                | 135                          |                                   |   | 43.48                             | 7.66                             | 41.38                           | 55.74                                   | 80.00                    | -24.26                      |
| 11569.92                                                         |                                     |                                    |                              | 39.97                             | A | 43.48                             | 7.66                             | 41.38                           | 45.54                                   | 60.00                    | -14.46                      |
| <b>EUT in Continuous Receive Mode on Channel 165 (5.825 GHz)</b> |                                     |                                    |                              |                                   |   |                                   |                                  |                                 |                                         |                          |                             |
| 3883.34                                                          | 51.33                               | 100                                | 135                          |                                   |   | 43.17                             | 4.23                             | 31.30                           | 43.68                                   | 80.00                    | -36.32                      |
| 3883.34                                                          |                                     |                                    |                              | 43.84                             | A | 43.17                             | 4.23                             | 31.30                           | 36.19                                   | 60.00                    | -23.81                      |
| 7766.62                                                          | 54.00                               | 100                                | 135                          |                                   |   | 43.58                             | 6.32                             | 40.35                           | 57.08                                   | 80.00                    | -22.92                      |
| 7766.62                                                          |                                     |                                    |                              | 47.89                             | A | 43.58                             | 6.32                             | 40.35                           | 50.97                                   | 60.00                    | -9.03                       |
| 11649.94                                                         | 50.17                               | 100                                | 135                          |                                   |   | 43.45                             | 7.69                             | 41.59                           | 56.00                                   | 80.00                    | -24.00                      |
| 11649.94                                                         |                                     |                                    |                              | 39.62                             | A | 43.45                             | 7.69                             | 41.59                           | 45.45                                   | 60.00                    | -14.55                      |

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## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization               |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| <b>EUT in Continuous Receive Mode on Channel 149 (5.745 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3830.00                                                          | 51.33                      | 100                       | 135                  |                           |   | 43.17                    | 4.18                    | 31.16                  | 43.50                          | 80.00            | -36.50              |
| 3830.00                                                          |                            |                           |                      | 42.38                     | A | 43.17                    | 4.18                    | 31.16                  | 34.55                          | 60.00            | -25.45              |
| 7660.00                                                          | 50.00                      | 100                       | 135                  |                           |   | 43.62                    | 6.27                    | 40.05                  | 52.70                          | 80.00            | -27.30              |
| 7660.00                                                          |                            |                           |                      | 40.10                     | A | 43.62                    | 6.27                    | 40.05                  | 42.80                          | 60.00            | -17.20              |
| 11489.92                                                         | 51.17                      | 100                       | 135                  |                           |   | 43.50                    | 7.64                    | 41.18                  | 56.49                          | 80.00            | -23.51              |
| 11489.92                                                         |                            |                           |                      | 40.99                     | A | 43.50                    | 7.64                    | 41.18                  | 46.31                          | 60.00            | -13.69              |
| <b>EUT in Continuous Receive Mode on Channel 157 (5.785 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3856.65                                                          | 51.00                      | 100                       | 135                  |                           |   | 43.17                    | 4.21                    | 31.14                  | 43.18                          | 80.00            | -36.82              |
| 3856.65                                                          |                            |                           |                      | 41.91                     | A | 43.17                    | 4.21                    | 31.14                  | 34.09                          | 60.00            | -25.91              |
| 7713.29                                                          | 49.83                      | 100                       | 135                  |                           |   | 43.60                    | 6.29                    | 40.28                  | 52.81                          | 80.00            | -27.19              |
| 7713.29                                                          |                            |                           |                      | 40.48                     | A | 43.60                    | 6.29                    | 40.28                  | 43.46                          | 60.00            | -16.54              |
| 11569.91                                                         | 50.50                      | 100                       | 135                  |                           |   | 43.48                    | 7.66                    | 41.81                  | 56.50                          | 80.00            | -23.50              |
| 11569.91                                                         |                            |                           |                      | 40.62                     | A | 43.48                    | 7.66                    | 41.81                  | 46.62                          | 60.00            | -13.38              |
| <b>EUT in Continuous Receive Mode on Channel 165 (5.825 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3883.35                                                          | 50.67                      | 100                       | 135                  |                           |   | 43.17                    | 4.23                    | 31.19                  | 42.92                          | 80.00            | -37.08              |
| 3883.35                                                          |                            |                           |                      | 42.42                     | A | 43.17                    | 4.23                    | 31.19                  | 34.67                          | 60.00            | -25.33              |
| 7766.63                                                          | 51.50                      | 100                       | 135                  |                           |   | 43.58                    | 6.32                    | 40.45                  | 54.69                          | 80.00            | -25.31              |
| 7766.63                                                          |                            |                           |                      | 41.17                     | A | 43.58                    | 6.32                    | 40.45                  | 44.36                          | 60.00            | -15.64              |
| 11649.97                                                         | 51.17                      | 100                       | 135                  |                           |   | 43.45                    | 7.69                    | 41.94                  | 57.35                          | 80.00            | -22.65              |
| 11649.97                                                         |                            |                           |                      | 40.98                     | A | 43.45                    | 7.69                    | 41.94                  | 47.16                          | 60.00            | -12.84              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

|                       |                                                                                                                                                                       |                        |              |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                                                                     | <b>DATE:</b>           | 11/22/04     |
| <b>EUT:</b>           | Intel PRO/Wireless 2915ABG Network Connection                                                                                                                         | <b>PROJECT NUMBER:</b> | INTEL-041021 |
| <b>MODEL NUMBER:</b>  | WM3B2915ABG                                                                                                                                                           | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 344F96244ABC51962012                                                                                                                                                  | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in the Hewlett Packard host computer's mini PCI slot in <b>802.11b (2412-2462 MHz) mode with the Phycomp/Yageo Corporation (Sony I275) antennas.</b> | <b>TEMPERATURE:</b>    | 11 C         |
|                       |                                                                                                                                                                       | <b>HUMIDITY:</b>       | 50% RH       |
|                       |                                                                                                                                                                       | <b>TIME:</b>           | 11:15 AM     |

|                     |                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard:</b>    | FCC CFR 47, Part 15.247(c)                                                                                                                                                                         |
| <b>Description:</b> | Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc. |
| <b>Results:</b>     | Passes (See Data Sheets)                                                                                                                                                                           |

| Unwanted Spurious Emissions Limits |                       |                                                                |                                                                      |
|------------------------------------|-----------------------|----------------------------------------------------------------|----------------------------------------------------------------------|
| Frequency (MHz)                    | Field Strength (uV/m) | Field Strength (dBuV/m)<br>(Emissions in the restricted bands) | Field Strength (dBm/MHz)<br>(Emissions outside the restricted bands) |
| Above 960                          | 500                   | 54.00 (Average)<br>74.00 (Peak)                                | < -20 dBc                                                            |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

### Fundamental Measurements in 802.11b mode (2412-2462 MHz)

Channels 1, 6, & 11

Continuous TX at MAIN Antenna port with **Phycomp/Yageo Corporation (Sony I275) Antennas**  
Aegis Labs, Inc. File #: INTEL-041021-25

#### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL |
|-------------|----------------------|---------------------|-------------------|------------------------|--------------------|-------------------|------------------|--------------------------|---------------|------------------|
| 2412.00     | 66.17                | 100                 | 135               |                        |                    | 3.30              | 31.11            | 100.58                   |               |                  |
| 2412.00     |                      |                     |                   | 62.91                  | A                  | 3.30              | 31.11            | 97.32                    |               |                  |
| 2437.00     | 69.33                | 100                 | 135               |                        |                    | 3.32              | 31.05            | 103.70                   |               |                  |
| 2437.00     |                      |                     |                   | 65.96                  | A                  | 3.32              | 31.05            | 100.33                   |               |                  |
| 2462.00     | 70.83                | 125                 | 135               |                        |                    | 3.34              | 30.99            | 105.16                   |               |                  |
| 2462.00     |                      |                     |                   | 67.39                  | A                  | 3.34              | 30.99            | 101.72                   |               |                  |

#### RADIATED EMISSIONS – Vertical Antenna Polarization

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL |
|-------------|----------------------|---------------------|-------------------|------------------------|--------------------|-------------------|------------------|--------------------------|---------------|------------------|
| 2412.00     | 74.00                | 100                 | 45                |                        |                    | 3.30              | 31.24            | 108.54                   |               |                  |
| 2412.00     |                      |                     |                   | 70.39                  | A                  | 3.30              | 31.24            | 104.93                   |               |                  |
| 2437.00     | 74.67                | 100                 | 45                |                        |                    | 3.32              | 31.20            | 109.19                   |               |                  |
| 2437.00     |                      |                     |                   | 71.42                  | A                  | 3.32              | 31.20            | 105.94                   |               |                  |
| 2462.00     | 74.33                | 125                 | 45                |                        |                    | 3.34              | 31.16            | 108.83                   |               |                  |
| 2462.00     |                      |                     |                   | 70.68                  | A                  | 3.34              | 31.16            | 105.18                   |               |                  |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.



AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

**Band Edge Field Strength Measurements in 802.11b mode (2412-2462 MHz)***Channels 1, 6, & 11***Continuous TX at MAIN Antenna port with *Phycomp/Yageo Corporation (Sony I275) Antennas****Aegis Labs, Inc. File #: INTEL-041021-25***RADIATED EMISSIONS - Horizontal Antenna Polarization**

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 46.41                          | 74.00            | -27.59              |
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 34.98                          | 54.00            | -19.02              |
| 2359.80        |                            |                           |                      |                           |                          |                         |                        | 48.75                          | 74.00            | -25.25              |
| 2359.80        |                            |                           |                      |                           |                          |                         |                        | 35.98                          | 54.00            | -18.02              |
| 2400.00        | 35.00                      | 100                       | 135                  |                           |                          | 3.29                    | 31.14                  | 69.43                          | 80.58            | -11.15              |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 50.66                          | 74.00            | -23.34              |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 39.39                          | 54.00            | -14.61              |
| 2520.70        |                            |                           |                      |                           |                          |                         |                        | 51.50                          | 74.00            | -22.50              |
| 2520.70        |                            |                           |                      |                           |                          |                         |                        | 40.22                          | 54.00            | -13.78              |

**RADIATED EMISSIONS – Vertical Antenna Polarization**

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 54.37                          | 74.00            | -19.63              |
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 42.59                          | 54.00            | -11.41              |
| 2359.80        |                            |                           |                      |                           |                          |                         |                        | 56.71                          | 74.00            | -17.29              |
| 2359.80        |                            |                           |                      |                           |                          |                         |                        | 43.59                          | 54.00            | -10.41              |
| 2400.00        | 40.00                      | 100                       | 45                   |                           |                          | 3.29                    | 31.26                  | 74.55                          | 88.54            | -13.99              |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 54.33                          | 74.00            | -19.67              |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 42.85                          | 54.00            | -11.15              |
| 2520.70        |                            |                           |                      |                           |                          |                         |                        | 55.17                          | 74.00            | -18.83              |
| 2520.70        |                            |                           |                      |                           |                          |                         |                        | 43.68                          | 54.00            | -10.32              |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = F_m - \Delta m$$

Where

BE = Band Edge Field Strength

F<sub>m</sub> = Measured Fundamental (Peak or Average)

Δm = Measured Conducted Band Edge Delta (Peak or Average)

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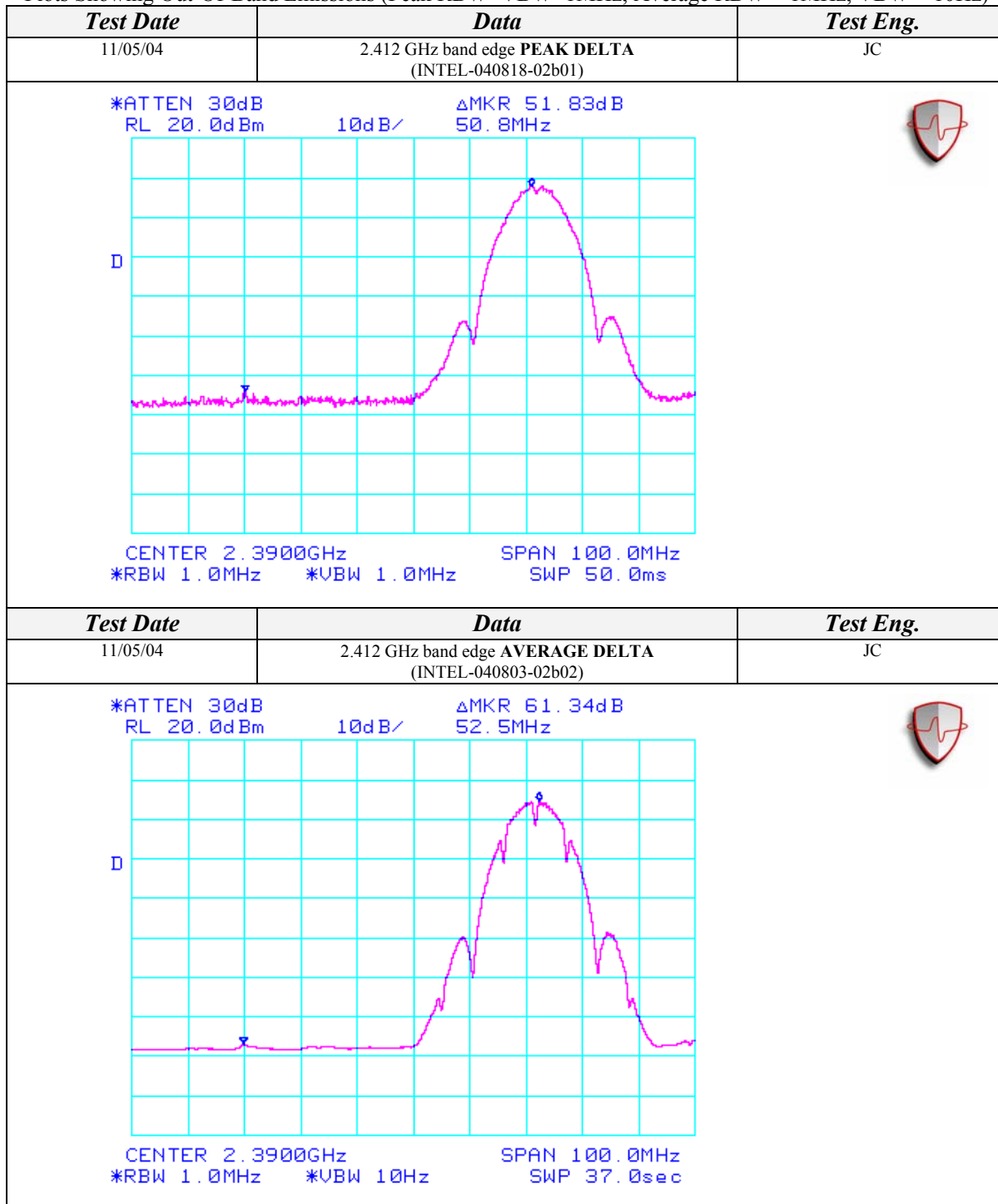
FCC ID: PD9WM3B2915ABG



AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



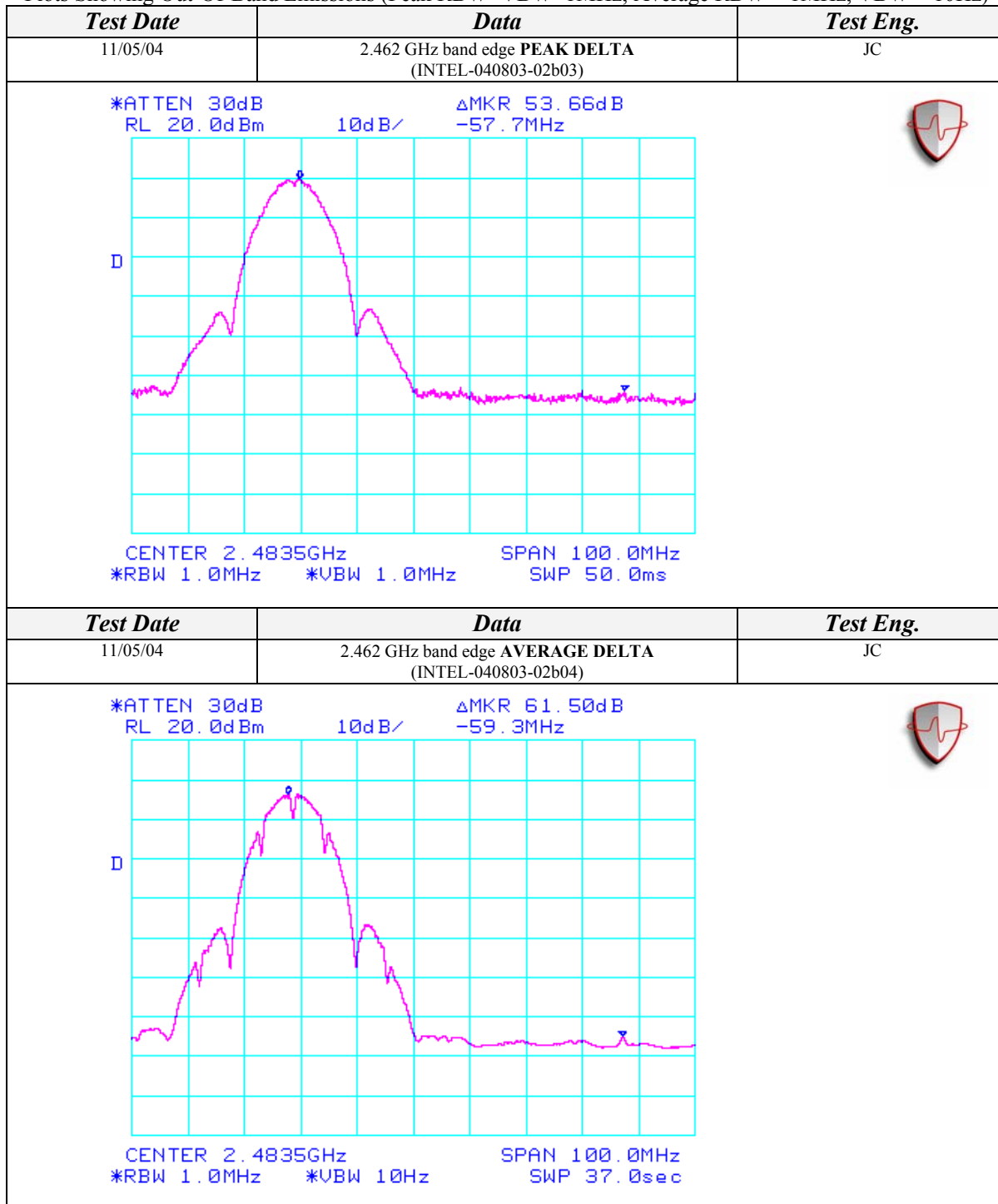
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



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## Spurious Radiated Emissions Test Results (Continued)

### *Spurious Emissions Measurements in 802.11b mode (2412-2462 MHz)*

*Channels 1, 6, & 11*

**Continuous TX at MAIN Antenna port with *Phycomp/Yageo Corporation (Sony I275) Antennas***  
*Aegis Labs, Inc. File #: INTEL-041021-26*

#### **RADIATED EMISSIONS - Horizontal Antenna Polarization**

| <i>Freq.<br/>(MHz)</i>                                           | <i>Meter<br/>Reading<br/>(dBuV)</i> | <i>Antenna<br/>Height<br/>(cm)</i> | <i>Azimuth<br/>(degrees)</i> | <i>Quasi pk or<br/>AVG (dBuV)</i> |   | <i>1 Meter<br/>Distance<br/>Factor<br/>(dB)</i> | <i>Cable<br/>Factor<br/>(dB)</i> | <i>Ant.<br/>Factor<br/>(dB)</i> | <i>Corrected<br/>Reading<br/>(dBuV)</i> | <i>Limits<br/>(dBuV)</i> | <i>Diff (dB)<br/>+=FAIL</i> |
|------------------------------------------------------------------|-------------------------------------|------------------------------------|------------------------------|-----------------------------------|---|-------------------------------------------------|----------------------------------|---------------------------------|-----------------------------------------|--------------------------|-----------------------------|
| <b>EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)</b>  |                                     |                                    |                              |                                   |   |                                                 |                                  |                                 |                                         |                          |                             |
| 2312.00                                                          | 30.50                               | 100                                | 225                          |                                   |   | 9.54                                            | 3.23                             | 31.35                           | 55.54                                   | 74.00                    | -18.46                      |
| 2312.00                                                          |                                     |                                    |                              | 13.98                             | A | 9.54                                            | 3.23                             | 31.35                           | 39.02                                   | 54.00                    | -14.98                      |
| <b>EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)</b>  |                                     |                                    |                              |                                   |   |                                                 |                                  |                                 |                                         |                          |                             |
| 2336.00                                                          | 31.00                               | 100                                | 225                          |                                   |   | 9.54                                            | 3.25                             | 31.29                           | 56.00                                   | 74.00                    | -18.00                      |
| 2336.00                                                          |                                     |                                    |                              | 14.53                             | A | 9.54                                            | 3.25                             | 31.29                           | 39.53                                   | 54.00                    | -14.47                      |
| <b>EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)</b> |                                     |                                    |                              |                                   |   |                                                 |                                  |                                 |                                         |                          |                             |
| 2358.66                                                          | 30.67                               | 100                                | 225                          |                                   |   | 9.54                                            | 3.26                             | 31.24                           | 55.63                                   | 74.00                    | -18.37                      |
| 2358.66                                                          |                                     |                                    |                              | 14.10                             | A | 9.54                                            | 3.26                             | 31.24                           | 39.06                                   | 54.00                    | -14.94                      |

#### **RADIATED EMISSIONS - Vertical Antenna Polarization**

| <i>Freq.<br/>(MHz)</i>                                           | <i>Meter<br/>Reading<br/>(dBuV)</i> | <i>Antenna<br/>Height<br/>(cm)</i> | <i>Azimuth<br/>(degrees)</i> | <i>Quasi pk or<br/>AVG (dBuV)</i> |   | <i>1 Meter<br/>Distance<br/>Factor<br/>(dB)</i> | <i>Cable<br/>Factor<br/>(dB)</i> | <i>Ant.<br/>Factor<br/>(dB)</i> | <i>Corrected<br/>Reading<br/>(dBuV)</i> | <i>Limits<br/>(dBuV)</i> | <i>Diff (dB)<br/>+=FAIL</i> |
|------------------------------------------------------------------|-------------------------------------|------------------------------------|------------------------------|-----------------------------------|---|-------------------------------------------------|----------------------------------|---------------------------------|-----------------------------------------|--------------------------|-----------------------------|
| <b>EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)</b>  |                                     |                                    |                              |                                   |   |                                                 |                                  |                                 |                                         |                          |                             |
| 2312.00                                                          | 31.00                               | 100                                | 135                          |                                   |   | 9.54                                            | 3.23                             | 31.40                           | 56.09                                   | 74.00                    | -17.91                      |
| 2312.00                                                          |                                     |                                    |                              | 17.91                             | A | 9.54                                            | 3.23                             | 31.40                           | 43.00                                   | 54.00                    | -11.00                      |
| <b>EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)</b>  |                                     |                                    |                              |                                   |   |                                                 |                                  |                                 |                                         |                          |                             |
| 2336.00                                                          | 31.83                               | 100                                | 135                          |                                   |   | 9.54                                            | 3.25                             | 31.36                           | 56.90                                   | 74.00                    | -17.10                      |
| 2336.00                                                          |                                     |                                    |                              | 18.23                             | A | 9.54                                            | 3.25                             | 31.36                           | 43.30                                   | 54.00                    | -10.70                      |
| <b>EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)</b> |                                     |                                    |                              |                                   |   |                                                 |                                  |                                 |                                         |                          |                             |
| 2358.66                                                          | 30.83                               | 100                                | 135                          |                                   |   | 9.54                                            | 3.26                             | 31.33                           | 55.88                                   | 74.00                    | -18.12                      |
| 2358.66                                                          |                                     |                                    |                              | 16.08                             | A | 9.54                                            | 3.26                             | 31.33                           | 41.13                                   | 54.00                    | -12.87                      |

NOTE: These spurious emissions measurements were taken without a preamp at a distance on 1 meter to avoid saturating the preamp and analyzer because the signals were close to the fundamental frequency. The readings were extrapolated to 1 meter.

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## Spurious Radiated Emissions Test Results (Continued)

### Spurious Emissions Measurements in 802.11b mode (2412-2462 MHz)

Channels 1, 6, & 11

Continuous TX at MAIN Antenna port with **Phycomp/Yageo Corporation (Sony I275) Antennas**

Aegis Labs, Inc. File #: INTEL-041021-27

#### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                          | 50.67                      | 100                       | 225                  |                           |   | 43.07                    | 3.89                    | 30.24                  | 41.73                          | 80.58            | -38.85              |
| 4824.01                                                          | 48.83                      | 100                       | 135                  |                           |   | 43.27                    | 4.73                    | 34.53                  | 44.82                          | 74.00            | -29.18              |
| 4824.01                                                          |                            |                           |                      | 38.04                     | A | 43.27                    | 4.73                    | 34.53                  | 34.03                          | 54.00            | -19.97              |
| 6431.98                                                          | 57.50                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 56.06                          | 80.58            | -24.52              |
| 9648.01                                                          | 49.00                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.88                  | 51.61                          | 80.58            | -28.97              |
| 12864.03                                                         | 49.83                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 43.86                  | 57.82                          | 80.58            | -22.76              |
| <b>EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.32                                                          | 50.83                      | 100                       | 225                  |                           |   | 43.08                    | 3.91                    | 30.25                  | 41.90                          | 83.70            | -41.80              |
| 4873.99                                                          | 49.00                      | 100                       | 135                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 45.20                          | 74.00            | -28.80              |
| 4873.99                                                          |                            |                           |                      | 38.46                     | A | 43.29                    | 4.77                    | 34.72                  | 34.66                          | 54.00            | -19.34              |
| 6498.69                                                          | 59.83                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.90                  | 58.66                          | 83.70            | -25.04              |
| 9747.96                                                          | 50.00                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.00                  | 52.73                          | 83.70            | -30.97              |
| 12997.37                                                         | 49.67                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.29                  | 58.15                          | 83.70            | -25.55              |
| <b>EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.69                                                          | 50.33                      | 100                       | 225                  |                           |   | 43.10                    | 3.91                    | 30.26                  | 41.40                          | 85.16            | -43.76              |
| 4924.00                                                          | 51.67                      | 100                       | 180                  |                           |   | 43.30                    | 4.81                    | 34.91                  | 48.08                          | 74.00            | -25.92              |
| 4924.00                                                          |                            |                           |                      | 43.63                     | A | 43.30                    | 4.81                    | 34.91                  | 40.04                          | 54.00            | -13.96              |
| 6565.34                                                          | 57.67                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.32                  | 56.98                          | 85.16            | -28.18              |
| 9848.01                                                          | 49.50                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.12                  | 52.36                          | 85.16            | -32.80              |
| 13130.67                                                         | 49.00                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.25                  | 57.62                          | 85.16            | -27.54              |

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## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization        |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|-----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                   | 50.33                      | 100                       | 180                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 41.59                          | 88.54            | -46.95              |
| 4823.98                                                   | 49.17                      | 100                       | 135                  |                           |   | 43.27                    | 4.73                    | 34.53                  | 45.16                          | 74.00            | -28.84              |
| 4823.98                                                   |                            |                           |                      | 38.29                     | A | 43.27                    | 4.73                    | 34.53                  | 34.28                          | 54.00            | -19.72              |
| 6431.95                                                   | 57.00                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 55.56                          | 88.54            | -32.98              |
| 9647.98                                                   | 48.83                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 51.53                          | 88.54            | -37.01              |
| 12864.01                                                  | 49.50                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 44.23                  | 57.85                          | 88.54            | -30.69              |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.32                                                   | 50.67                      | 100                       | 180                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 41.94                          | 89.19            | -47.25              |
| 4874.01                                                   | 48.83                      | 100                       | 135                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 45.03                          | 74.00            | -28.97              |
| 4874.01                                                   |                            |                           |                      | 37.87                     | A | 43.29                    | 4.77                    | 34.72                  | 34.07                          | 54.00            | -19.93              |
| 6498.66                                                   | 59.17                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.89                  | 58.00                          | 89.19            | -31.19              |
| 9748.04                                                   | 49.33                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.15                  | 52.21                          | 89.19            | -36.98              |
| 12997.35                                                  | 50.00                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.49                  | 58.68                          | 89.19            | -30.51              |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.66                                                   | 49.50                      | 100                       | 180                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 40.77                          | 88.83            | -48.06              |
| 4924.00                                                   | 50.84                      | 100                       | 135                  |                           |   | 43.30                    | 4.81                    | 34.91                  | 47.25                          | 74.00            | -26.75              |
| 4924.00                                                   |                            |                           |                      | 43.41                     | A | 43.30                    | 4.81                    | 34.91                  | 39.82                          | 54.00            | -14.18              |
| 6565.32                                                   | 55.67                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.38                  | 55.04                          | 88.83            | -33.79              |
| 9847.96                                                   | 49.50                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.33                  | 52.57                          | 88.83            | -36.26              |
| 13130.63                                                  | 48.83                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.45                  | 57.65                          | 88.83            | -31.18              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in in802.11b mode (2412-2462 MHz)*

*Channels 1, 6, & 11*

*Continuous RX at MAIN Antenna port with **Phycomp/Yageo Corporation (Sony I275) Antennas***

*Aegis Labs, Inc. File #: INTEL-041021-27*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                  | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|-----------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3216.02                                                         | 51.33                      | 100                       | 225                  |                           |                          | 43.07                   | 3.89                   | 30.24                          | 42.39            | 80.00 -37.61        |
| 3216.02                                                         |                            |                           |                      | 43.68                     | A                        | 43.07                   | 3.89                   | 30.24                          | 34.74            | 60.00 -25.26        |
| 6432.00                                                         | 59.33                      | 100                       | 135                  |                           |                          | 43.82                   | 5.73                   | 36.64                          | 57.89            | 80.00 -22.11        |
| 6432.00                                                         |                            |                           |                      | 56.63                     | A                        | 43.82                   | 5.73                   | 36.64                          | 55.19            | 60.00 -4.81         |
| 9648.01                                                         | 50.67                      | 100                       | 135                  |                           |                          | 43.22                   | 6.95                   | 38.88                          | 53.28            | 80.00 -26.72        |
| 9648.01                                                         |                            |                           |                      | 39.19                     | A                        | 43.22                   | 6.95                   | 38.88                          | 41.80            | 60.00 -18.20        |
| <b>EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3249.32                                                         | 51.83                      | 100                       | 225                  |                           |                          | 43.08                   | 3.91                   | 30.25                          | 42.90            | 80.00 -37.10        |
| 3249.32                                                         |                            |                           |                      | 44.61                     | A                        | 43.08                   | 3.91                   | 30.25                          | 35.68            | 60.00 -24.32        |
| 6498.70                                                         | 61.33                      | 100                       | 135                  |                           |                          | 43.84                   | 5.78                   | 36.90                          | 60.16            | 80.00 -19.84        |
| 6498.70                                                         |                            |                           |                      | 58.58                     | A                        | 43.84                   | 5.78                   | 36.90                          | 57.41            | 60.00 -2.59         |
| 9747.99                                                         | 50.17                      | 100                       | 135                  |                           |                          | 43.25                   | 6.99                   | 39.00                          | 52.90            | 80.00 -27.10        |
| 9747.99                                                         |                            |                           |                      | 38.89                     | A                        | 43.25                   | 6.99                   | 39.00                          | 41.62            | 60.00 -18.38        |
| <b>EUT in Continuous Receive Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3282.66                                                         | 51.00                      | 100                       | 225                  |                           |                          | 43.10                   | 3.91                   | 30.26                          | 42.07            | 80.00 -37.93        |
| 3282.66                                                         |                            |                           |                      | 43.26                     | A                        | 43.10                   | 3.91                   | 30.26                          | 34.33            | 60.00 -25.67        |
| 6565.32                                                         | 58.17                      | 100                       | 135                  |                           |                          | 43.84                   | 5.83                   | 37.32                          | 57.48            | 80.00 -22.52        |
| 6565.32                                                         |                            |                           |                      | 55.30                     | A                        | 43.84                   | 5.83                   | 37.32                          | 54.61            | 60.00 -5.39         |
| 9848.01                                                         | 50.00                      | 100                       | 135                  |                           |                          | 43.29                   | 7.03                   | 39.12                          | 52.86            | 80.00 -27.14        |
| 9848.01                                                         |                            |                           |                      | 38.18                     | A                        | 43.29                   | 7.03                   | 39.12                          | 41.04            | 60.00 -18.96        |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization       |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                           | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                  | 51.50                      | 100                       | 180                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 42.76                          | 80.00            | -37.24              |
| 3216.00                                                  |                            |                           |                      | 43.89                     | A | 43.07                    | 3.89                    | 30.44                  | 35.15                          | 60.00            | -24.85              |
| 6432.02                                                  | 58.00                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 56.56                          | 80.00            | -23.44              |
| 6432.02                                                  |                            |                           |                      | 54.99                     | A | 43.82                    | 5.73                    | 36.64                  | 53.55                          | 60.00            | -6.45               |
| 9648.02                                                  | 49.33                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 52.03                          | 80.00            | -27.97              |
| 9648.02                                                  |                            |                           |                      | 37.71                     | A | 43.22                    | 6.95                    | 38.97                  | 40.41                          | 60.00            | -19.59              |
| EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.32                                                  | 51.83                      | 125                       | 180                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 43.10                          | 80.00            | -36.90              |
| 3249.32                                                  |                            |                           |                      | 44.65                     | A | 43.08                    | 3.91                    | 30.45                  | 35.92                          | 60.00            | -24.08              |
| 6498.67                                                  | 59.33                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.89                  | 58.16                          | 80.00            | -21.84              |
| 6498.67                                                  |                            |                           |                      | 56.19                     | A | 43.84                    | 5.78                    | 36.89                  | 55.02                          | 60.00            | -4.98               |
| 9748.00                                                  | 49.83                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.15                  | 52.71                          | 80.00            | -27.29              |
| 9748.00                                                  |                            |                           |                      | 38.56                     | A | 43.25                    | 6.99                    | 39.15                  | 41.44                          | 60.00            | -18.56              |
| EUT in Continuous Receive Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.67                                                  | 50.50                      | 100                       | 180                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 41.77                          | 80.00            | -38.23              |
| 3282.67                                                  |                            |                           |                      | 41.58                     | A | 43.10                    | 3.91                    | 30.46                  | 32.85                          | 60.00            | -27.15              |
| 6565.32                                                  | 56.83                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.38                  | 56.20                          | 80.00            | -23.80              |
| 6565.32                                                  |                            |                           |                      | 53.32                     | A | 43.84                    | 5.83                    | 37.38                  | 52.69                          | 60.00            | -7.31               |
| 9847.98                                                  | 50.17                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.33                  | 53.24                          | 80.00            | -26.76              |
| 9847.98                                                  |                            |                           |                      | 39.01                     | A | 43.29                    | 7.03                    | 39.33                  | 42.08                          | 60.00            | -17.92              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

|                       |                                                                                                                                                                      |                        |              |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                                                                    | <b>DATE:</b>           | 11/22/04     |
| <b>EUT:</b>           | Intel PRO/Wireless 2915ABG Network Connection                                                                                                                        | <b>PROJECT NUMBER:</b> | INTEL-041021 |
| <b>MODEL NUMBER:</b>  | WM3B2915ABG                                                                                                                                                          | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 344F96244ABC51962012                                                                                                                                                 | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in the Hewlett Packard host computer's mini PCI slot in <b>802.11g (2412-2462 MHz) mode with the Phycomp/Yageo Corporation (Sony I275) antennas</b> | <b>TEMPERATURE:</b>    | 11 C         |
|                       |                                                                                                                                                                      | <b>HUMIDITY:</b>       | 50% RH       |
|                       |                                                                                                                                                                      | <b>TIME:</b>           | 11:15 AM     |

|                     |                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard:</b>    | FCC CFR 47, Part 15.247(c)                                                                                                                                                                         |
| <b>Description:</b> | Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc. |
| <b>Results:</b>     | Passes (See Data Sheets)                                                                                                                                                                           |

| Unwanted Spurious Emissions Limits |                       |                                                                |                                                                      |
|------------------------------------|-----------------------|----------------------------------------------------------------|----------------------------------------------------------------------|
| Frequency (MHz)                    | Field Strength (uV/m) | Field Strength (dBuV/m)<br>(Emissions in the restricted bands) | Field Strength (dBm/MHz)<br>(Emissions outside the restricted bands) |
| Above 960                          | 500                   | 54.00 (Average)<br>74.00 (Peak)                                | < -20 dBc                                                            |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

### Fundamental Measurements in 802.11g mode (2412-2462 MHz)

Channels 1, 6, & 11

Continuous TX at MAIN Antenna port with **Phycomp/Yageo Corporation (Sony I275) Antennas**

Aegis Labs, Inc. File #: INTEL-041021-25

#### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL |
|-------------|----------------------|---------------------|-------------------|------------------------|---|--------------------|-------------------|------------------|--------------------------|---------------|------------------|
| 2412.00     | 68.33                | 100                 | 135               |                        |   |                    | 3.30              | 31.11            | 102.74                   |               |                  |
| 2412.00     |                      |                     |                   | 59.61                  | A |                    | 3.30              | 31.11            | 94.02                    |               |                  |
| 2437.00     | 69.83                | 100                 | 135               |                        |   |                    | 3.32              | 31.05            | 104.20                   |               |                  |
| 2437.00     |                      |                     |                   | 59.82                  | A |                    | 3.32              | 31.05            | 94.19                    |               |                  |
| 2462.00     | 72.17                | 125                 | 135               |                        |   |                    | 3.34              | 30.99            | 106.50                   |               |                  |
| 2462.00     |                      |                     |                   | 61.90                  | A |                    | 3.34              | 30.99            | 96.23                    |               |                  |

#### RADIATED EMISSIONS – Vertical Antenna Polarization

| Freq. (MHz) | Meter Reading (dBuV) | Antenna Height (cm) | Azimuth (degrees) | Quasi pk or AVG (dBuV) |   | Preamp Factor (dB) | Cable Factor (dB) | Ant. Factor (dB) | Corrected Reading (dBuV) | Limits (dBuV) | Diff (dB) +=FAIL |
|-------------|----------------------|---------------------|-------------------|------------------------|---|--------------------|-------------------|------------------|--------------------------|---------------|------------------|
| 2412.00     | 75.33                | 100                 | 45                |                        |   |                    | 3.30              | 31.24            | 109.87                   |               |                  |
| 2412.00     |                      |                     |                   | 64.89                  | A |                    | 3.30              | 31.24            | 99.43                    |               |                  |
| 2437.00     | 75.50                | 100                 | 45                |                        |   |                    | 3.32              | 31.20            | 110.02                   |               |                  |
| 2437.00     |                      |                     |                   | 65.10                  | A |                    | 3.32              | 31.20            | 99.62                    |               |                  |
| 2462.00     | 76.67                | 125                 | 45                |                        |   |                    | 3.34              | 31.16            | 111.17                   |               |                  |
| 2462.00     |                      |                     |                   | 66.06                  | A |                    | 3.34              | 31.16            | 100.56                   |               |                  |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

### *Band Edge Field Strength Measurements in 802.11g mode (2412-2462 MHz)*

*Channels 1, 6, & 11*

*Continuous TX at MAIN Antenna port with **Phycomp/Yageo Corporation (Sony I275) Antennas**  
Aegis Labs, Inc. File #: INTEL-041021-25*

#### **RADIATED EMISSIONS - Horizontal Antenna Polarization**

| <i>Freq.<br/>(MHz)</i> | <i>Meter<br/>Reading<br/>(dBuV)</i> | <i>Antenna<br/>Height<br/>(cm)</i> | <i>Azimuth<br/>(degrees)</i> | <i>Quasi pk or<br/>AVG (dBuV)</i> | <i>Preamp<br/>Factor<br/>(dB)</i> | <i>Cable<br/>Factor<br/>(dB)</i> | <i>Ant.<br/>Factor<br/>(dB)</i> | <i>Corrected<br/>Reading<br/>(dBuV)</i> | <i>Limits<br/>(dBuV)</i> | <i>Diff (dB)<br/>+=FAIL</i> |
|------------------------|-------------------------------------|------------------------------------|------------------------------|-----------------------------------|-----------------------------------|----------------------------------|---------------------------------|-----------------------------------------|--------------------------|-----------------------------|
| 2390.00                |                                     |                                    |                              |                                   |                                   |                                  |                                 | 56.40                                   | 74.00                    | -17.60                      |
| 2390.00                |                                     |                                    |                              |                                   |                                   |                                  |                                 | 43.35                                   | 54.00                    | -10.65                      |
| 2400.00                | 42.17                               | 100                                | 135                          |                                   |                                   | 3.29                             | 31.14                           | 76.60                                   | 82.74                    | -6.14                       |
| 2483.50                |                                     |                                    |                              |                                   |                                   |                                  |                                 | 62.00                                   | 74.00                    | -12.00                      |
| 2483.50                |                                     |                                    |                              |                                   |                                   |                                  |                                 | 45.23                                   | 54.00                    | -8.77                       |

#### **RADIATED EMISSIONS – Vertical Antenna Polarization**

| <i>Freq.<br/>(MHz)</i> | <i>Meter<br/>Reading<br/>(dBuV)</i> | <i>Antenna<br/>Height<br/>(cm)</i> | <i>Azimuth<br/>(degrees)</i> | <i>Quasi pk or<br/>AVG (dBuV)</i> | <i>Preamp<br/>Factor<br/>(dB)</i> | <i>Cable<br/>Factor<br/>(dB)</i> | <i>Ant.<br/>Factor<br/>(dB)</i> | <i>Corrected<br/>Reading<br/>(dBuV)</i> | <i>Limits<br/>(dBuV)</i> | <i>Diff (dB)<br/>+=FAIL</i> |
|------------------------|-------------------------------------|------------------------------------|------------------------------|-----------------------------------|-----------------------------------|----------------------------------|---------------------------------|-----------------------------------------|--------------------------|-----------------------------|
| 2390.00                |                                     |                                    |                              |                                   |                                   |                                  |                                 | 63.53                                   | 74.00                    | -10.47                      |
| 2390.00                |                                     |                                    |                              |                                   |                                   |                                  |                                 | 48.76                                   | 54.00                    | -5.24                       |
| 2400.00                | 50.67                               | 100                                | 45                           |                                   |                                   | 3.29                             | 31.26                           | 85.22                                   | 89.87                    | -4.65                       |
| 2483.50                |                                     |                                    |                              |                                   |                                   |                                  |                                 | 66.67                                   | 74.00                    | -7.33                       |
| 2483.50                |                                     |                                    |                              |                                   |                                   |                                  |                                 | 49.56                                   | 54.00                    | -4.44                       |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = F_m - \Delta m$$

Where

BE = Band Edge Field Strength

F<sub>m</sub> = Measured Fundamental (Peak or Average)

Δ<sub>m</sub> = Measured Conducted Band Edge Delta (Peak or Average)

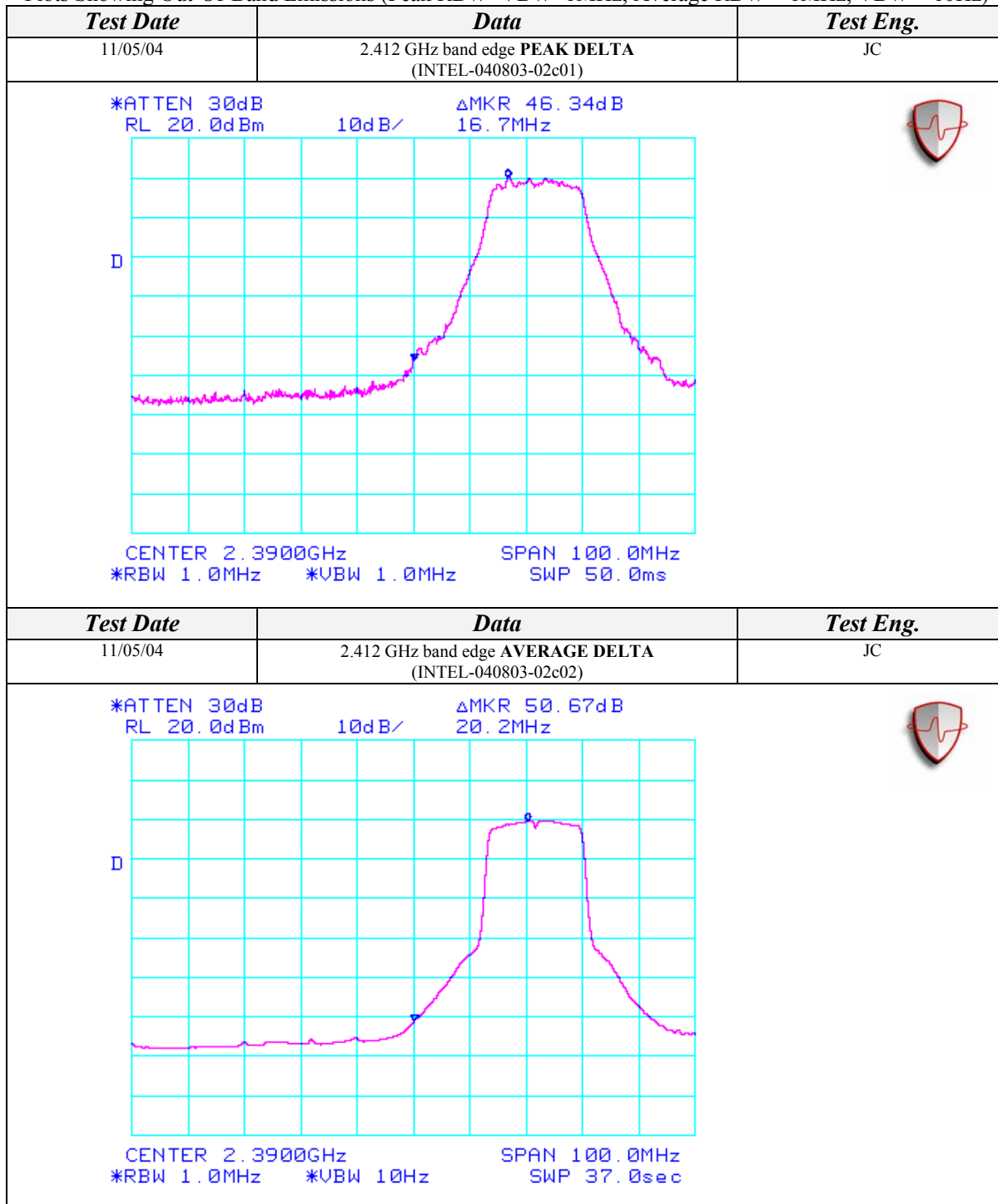
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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



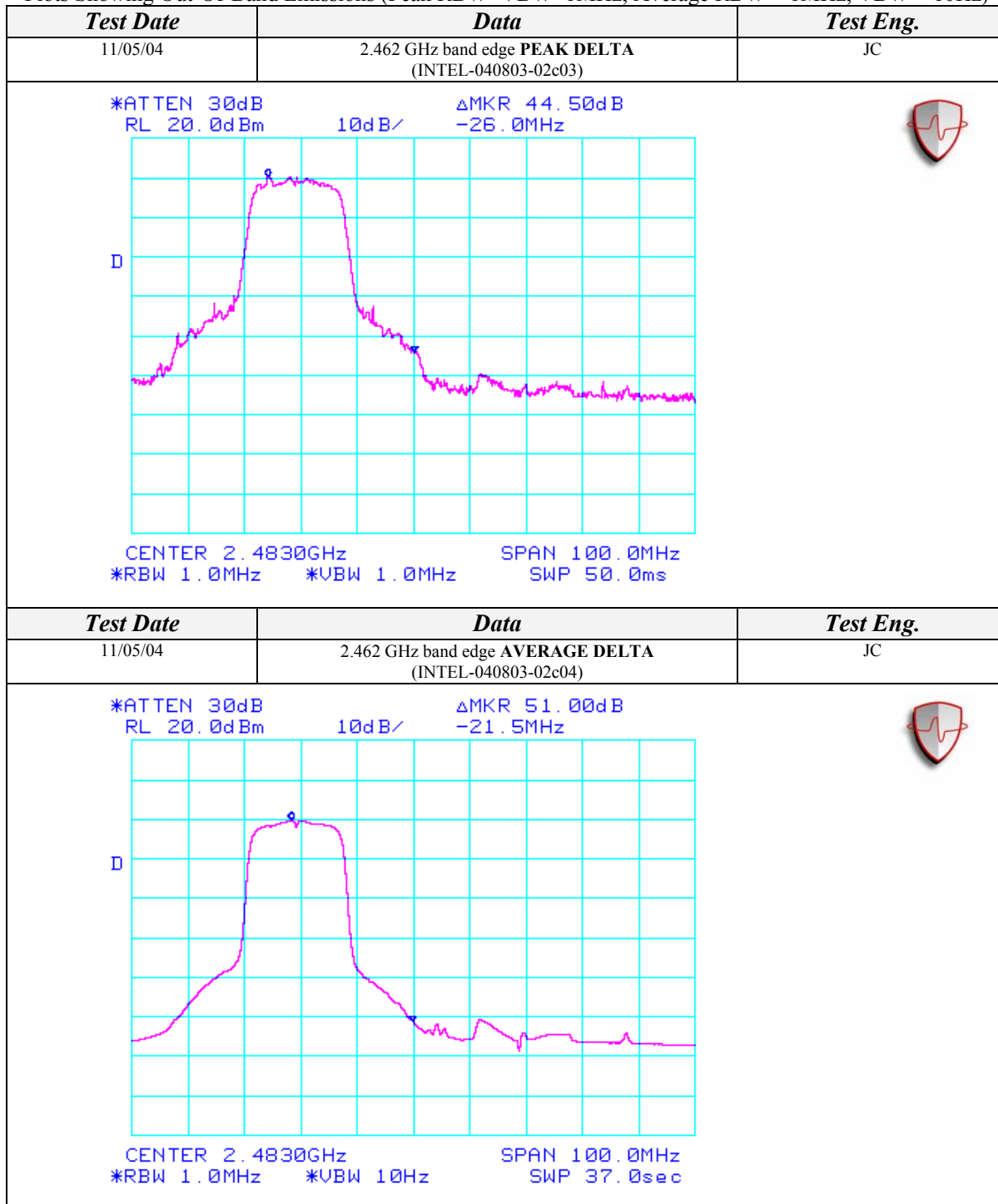
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

### *Spurious Emissions Measurements in 802.11g mode (2412-2462 MHz)*

*Channels 1, 6, & 11*

***Continuous TX at MAIN Antenna port with Phycomp/Yageo Corporation (Sony I275) Antennas***  
*Aegis Labs, Inc. File #: INTEL-041021-26*

#### **RADIATED EMISSIONS - Horizontal Antenna Polarization**

| <i>Freq.<br/>(MHz)</i>                                           | <i>Meter<br/>Reading<br/>(dBuV)</i> | <i>Antenna<br/>Height<br/>(cm)</i> | <i>Azimuth<br/>(degrees)</i> | <i>Quasi pk or<br/>AVG (dBuV)</i> |   | <i>1 Meter<br/>Distance<br/>Factor<br/>(dB)</i> | <i>Cable<br/>Factor<br/>(dB)</i> | <i>Ant.<br/>Factor<br/>(dB)</i> | <i>Corrected<br/>Reading<br/>(dBuV)</i> | <i>Limits<br/>(dBuV)</i> | <i>Diff (dB)<br/>+=FAIL</i> |
|------------------------------------------------------------------|-------------------------------------|------------------------------------|------------------------------|-----------------------------------|---|-------------------------------------------------|----------------------------------|---------------------------------|-----------------------------------------|--------------------------|-----------------------------|
| <b>EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)</b>  |                                     |                                    |                              |                                   |   |                                                 |                                  |                                 |                                         |                          |                             |
| 2312.00                                                          | 31.50                               | 100                                | 225                          |                                   |   | 9.54                                            | 3.23                             | 31.35                           | 56.54                                   | 74.00                    | -17.46                      |
| 2312.00                                                          |                                     |                                    |                              | 18.68                             | A | 9.54                                            | 3.23                             | 31.35                           | 43.72                                   | 54.00                    | -10.28                      |
| <b>EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)</b>  |                                     |                                    |                              |                                   |   |                                                 |                                  |                                 |                                         |                          |                             |
| 2336.00                                                          | 31.00                               | 100                                | 225                          |                                   |   | 9.54                                            | 3.25                             | 31.29                           | 56.00                                   | 74.00                    | -18.00                      |
| 2336.00                                                          |                                     |                                    |                              | 18.03                             | A | 9.54                                            | 3.25                             | 31.29                           | 43.03                                   | 54.00                    | -10.97                      |
| <b>EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)</b> |                                     |                                    |                              |                                   |   |                                                 |                                  |                                 |                                         |                          |                             |
| 2358.66                                                          | 30.83                               | 100                                | 135                          |                                   |   | 9.54                                            | 3.26                             | 31.24                           | 55.79                                   | 74.00                    | -18.21                      |
| 2358.66                                                          |                                     |                                    |                              | 15.74                             | A | 9.54                                            | 3.26                             | 31.24                           | 40.70                                   | 54.00                    | -13.30                      |

#### **RADIATED EMISSIONS - Vertical Antenna Polarization**

| <i>Freq.<br/>(MHz)</i>                                           | <i>Meter<br/>Reading<br/>(dBuV)</i> | <i>Antenna<br/>Height<br/>(cm)</i> | <i>Azimuth<br/>(degrees)</i> | <i>Quasi pk or<br/>AVG (dBuV)</i> |   | <i>1 Meter<br/>Distance<br/>Factor<br/>(dB)</i> | <i>Cable<br/>Factor<br/>(dB)</i> | <i>Ant.<br/>Factor<br/>(dB)</i> | <i>Corrected<br/>Reading<br/>(dBuV)</i> | <i>Limits<br/>(dBuV)</i> | <i>Diff (dB)<br/>+=FAIL</i> |
|------------------------------------------------------------------|-------------------------------------|------------------------------------|------------------------------|-----------------------------------|---|-------------------------------------------------|----------------------------------|---------------------------------|-----------------------------------------|--------------------------|-----------------------------|
| <b>EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)</b>  |                                     |                                    |                              |                                   |   |                                                 |                                  |                                 |                                         |                          |                             |
| 2312.00                                                          | 33.00                               | 100                                | 135                          |                                   |   | 9.54                                            | 3.23                             | 31.40                           | 58.09                                   | 74.00                    | -15.91                      |
| 2312.00                                                          |                                     |                                    |                              | 23.10                             | A | 9.54                                            | 3.23                             | 31.40                           | 48.19                                   | 54.00                    | -5.81                       |
| <b>EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)</b>  |                                     |                                    |                              |                                   |   |                                                 |                                  |                                 |                                         |                          |                             |
| 2336.00                                                          | 33.67                               | 100                                | 135                          |                                   |   | 9.54                                            | 3.25                             | 31.36                           | 58.74                                   | 74.00                    | -15.26                      |
| 2336.00                                                          |                                     |                                    |                              | 24.99                             | A | 9.54                                            | 3.25                             | 31.36                           | 50.06                                   | 54.00                    | -3.94                       |
| <b>EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)</b> |                                     |                                    |                              |                                   |   |                                                 |                                  |                                 |                                         |                          |                             |
| 2358.68                                                          | 31.83                               | 100                                | 135                          |                                   |   | 9.54                                            | 3.26                             | 31.33                           | 56.88                                   | 74.00                    | -17.12                      |
| 2358.68                                                          |                                     |                                    |                              | 20.58                             | A | 9.54                                            | 3.26                             | 31.33                           | 45.63                                   | 54.00                    | -8.37                       |

NOTE: These spurious emissions measurements were taken without a preamp at a distance on 1 meter to avoid saturating the preamp and analyzer because the signals were close to the fundamental frequency. The readings were extrapolated to 1 meter.

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

### Spurious Emissions Measurements in 802.11g mode (2412-2462 MHz)

Channels 1, 6, & 11

Continuous TX at MAIN Antenna port with **Phycomp/Yageo Corporation (Sony I275) Antennas**

Aegis Labs, Inc. File #: INTEL-041021-27

#### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                          | 51.00                      | 100                       | 225                  |                           |   | 43.07                    | 3.89                    | 30.24                  | 42.06                          | 82.74            | -40.68              |
| 4824.20                                                          | 48.67                      | 100                       | 135                  |                           |   | 43.27                    | 4.73                    | 34.53                  | 44.67                          | 74.00            | -29.33              |
| 4824.20                                                          |                            |                           |                      | 36.91                     | A | 43.27                    | 4.73                    | 34.53                  | 32.91                          | 54.00            | -21.09              |
| 6432.05                                                          | 58.00                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 56.56                          | 82.74            | -26.18              |
| 9647.97                                                          | 49.17                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.88                  | 51.78                          | 82.74            | -30.96              |
| 12864.02                                                         | 49.83                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 43.86                  | 57.82                          | 82.74            | -24.92              |
| <b>EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.37                                                          | 50.50                      | 100                       | 180                  |                           |   | 43.08                    | 3.91                    | 30.25                  | 41.57                          | 84.20            | -42.63              |
| 4874.06                                                          | 48.33                      | 100                       | 135                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 44.53                          | 74.00            | -29.47              |
| 4874.06                                                          |                            |                           |                      | 36.29                     | A | 43.29                    | 4.77                    | 34.72                  | 32.49                          | 54.00            | -21.51              |
| 6498.69                                                          | 59.50                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.90                  | 58.33                          | 84.20            | -25.87              |
| 9748.09                                                          | 49.33                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.00                  | 52.06                          | 84.20            | -32.14              |
| 12997.35                                                         | 49.83                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.29                  | 58.31                          | 84.20            | -25.89              |
| <b>EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.68                                                          | 50.00                      | 100                       | 225                  |                           |   | 43.10                    | 3.91                    | 30.26                  | 41.07                          | 86.50            | -45.43              |
| 4923.82                                                          | 48.17                      | 100                       | 135                  |                           |   | 43.30                    | 4.81                    | 34.91                  | 44.58                          | 74.00            | -29.42              |
| 4923.82                                                          |                            |                           |                      | 35.89                     | A | 43.30                    | 4.81                    | 34.91                  | 32.30                          | 54.00            | -21.70              |
| 6565.42                                                          | 57.67                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.32                  | 56.98                          | 86.50            | -29.52              |
| 9847.97                                                          | 50.17                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.12                  | 53.03                          | 86.50            | -33.47              |
| 13130.70                                                         | 49.00                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.25                  | 57.62                          | 86.50            | -28.88              |

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## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization               |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| <b>EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.01                                                          | 51.17                      | 100                       | 180                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 42.43                          | 89.87            | -47.44              |
| 4823.97                                                          | 48.50                      | 100                       | 135                  |                           |   | 43.27                    | 4.73                    | 34.53                  | 44.49                          | 74.00            | -29.51              |
| 4823.97                                                          |                            |                           |                      | 36.56                     | A | 43.27                    | 4.73                    | 34.53                  | 32.55                          | 54.00            | -21.45              |
| 6432.01                                                          | 56.50                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 55.06                          | 89.87            | -34.81              |
| 9648.03                                                          | 49.67                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 52.37                          | 89.87            | -37.50              |
| 12863.98                                                         | 49.50                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 44.23                  | 57.85                          | 89.87            | -32.02              |
| <b>EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.35                                                          | 50.83                      | 100                       | 180                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 42.10                          | 90.02            | -47.92              |
| 4874.03                                                          | 48.17                      | 100                       | 135                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 44.37                          | 74.00            | -29.63              |
| 4874.03                                                          |                            |                           |                      | 35.61                     | A | 43.29                    | 4.77                    | 34.72                  | 31.81                          | 54.00            | -22.19              |
| 6498.67                                                          | 59.00                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.89                  | 57.83                          | 90.02            | -32.19              |
| 9748.00                                                          | 49.83                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.15                  | 52.71                          | 90.02            | -37.31              |
| 12997.30                                                         | 50.00                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.49                  | 58.68                          | 90.02            | -31.34              |
| <b>EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.65                                                          | 50.67                      | 100                       | 225                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 41.94                          | 91.17            | -49.23              |
| 4924.01                                                          | 48.50                      | 100                       | 135                  |                           |   | 43.30                    | 4.81                    | 34.91                  | 44.91                          | 74.00            | -29.09              |
| 4924.01                                                          |                            |                           |                      | 36.22                     | A | 43.30                    | 4.81                    | 34.91                  | 32.63                          | 54.00            | -21.37              |
| 6565.34                                                          | 57.33                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.38                  | 56.70                          | 91.17            | -34.47              |
| 9848.02                                                          | 50.17                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.33                  | 53.24                          | 91.17            | -37.93              |
| 13130.62                                                         | 48.83                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.45                  | 57.65                          | 91.17            | -33.52              |

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## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11g mode (2412-2462 MHz)*

*Channels 1, 6, & 11*

*Continuous RX at MAIN Antenna port with **Phycomp/Yageo Corporation (Sony I275) Antennas***

*Aegis Labs, Inc. File #: INTEL-041021-27*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                  | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|-----------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                         | 51.50                      | 100                       | 225                  |                           |   | 43.07                    | 3.89                    | 30.24                  | 42.56                          | 80.00            | -37.44              |
| 3216.00                                                         |                            |                           |                      | 43.78                     | A | 43.07                    | 3.89                    | 30.24                  | 34.84                          | 60.00            | -25.16              |
| 6431.98                                                         | 59.67                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 58.23                          | 80.00            | -21.77              |
| 6431.98                                                         |                            |                           |                      | 57.05                     | A | 43.82                    | 5.73                    | 36.64                  | 55.61                          | 60.00            | -4.39               |
| 9648.00                                                         | 49.83                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.88                  | 52.44                          | 80.00            | -27.56              |
| 9648.00                                                         |                            |                           |                      | 39.22                     | A | 43.22                    | 6.95                    | 38.88                  | 41.83                          | 60.00            | -18.17              |
| <b>EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.32                                                         | 51.33                      | 100                       | 225                  |                           |   | 43.08                    | 3.91                    | 30.25                  | 42.40                          | 80.00            | -37.60              |
| 3249.32                                                         |                            |                           |                      | 43.96                     | A | 43.08                    | 3.91                    | 30.25                  | 35.03                          | 60.00            | -24.97              |
| 6498.67                                                         | 60.83                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.89                  | 59.66                          | 80.00            | -20.34              |
| 6498.67                                                         |                            |                           |                      | 58.39                     | A | 43.84                    | 5.78                    | 36.89                  | 57.22                          | 60.00            | -2.78               |
| 9748.03                                                         | 50.00                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.00                  | 52.73                          | 80.00            | -27.27              |
| 9748.03                                                         |                            |                           |                      | 39.58                     | A | 43.25                    | 6.99                    | 39.00                  | 42.31                          | 60.00            | -17.69              |
| <b>EUT in Continuous Receive Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.66                                                         | 51.00                      | 100                       | 225                  |                           |   | 43.10                    | 3.91                    | 30.26                  | 42.07                          | 80.00            | -37.93              |
| 3282.66                                                         |                            |                           |                      | 43.47                     | A | 43.10                    | 3.91                    | 30.26                  | 34.54                          | 60.00            | -25.46              |
| 6565.32                                                         | 58.17                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.32                  | 57.48                          | 80.00            | -22.52              |
| 6565.32                                                         |                            |                           |                      | 55.28                     | A | 43.84                    | 5.83                    | 37.32                  | 54.59                          | 60.00            | -5.41               |
| 9848.00                                                         | 50.83                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.12                  | 53.69                          | 80.00            | -26.31              |
| 9848.00                                                         |                            |                           |                      | 39.61                     | A | 43.29                    | 7.03                    | 39.12                  | 42.47                          | 60.00            | -17.53              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization       |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                           | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                  | 50.83                      | 125                       | 180                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 42.09                          | 80.00            | -37.91              |
| 3216.00                                                  |                            |                           |                      | 43.78                     | A | 43.07                    | 3.89                    | 30.44                  | 35.04                          | 60.00            | -24.96              |
| 6432.01                                                  | 58.67                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 57.23                          | 80.00            | -22.77              |
| 6432.01                                                  |                            |                           |                      | 55.37                     | A | 43.82                    | 5.73                    | 36.64                  | 53.93                          | 60.00            | -6.07               |
| 9648.00                                                  | 49.17                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 51.87                          | 80.00            | -28.13              |
| 9648.00                                                  |                            |                           |                      | 37.65                     | A | 43.22                    | 6.95                    | 38.97                  | 40.35                          | 60.00            | -19.65              |
| EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.33                                                  | 51.50                      | 125                       | 180                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 42.77                          | 80.00            | -37.23              |
| 3249.33                                                  |                            |                           |                      | 44.66                     | A | 43.08                    | 3.91                    | 30.45                  | 35.93                          | 60.00            | -24.07              |
| 6498.69                                                  | 59.33                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.90                  | 58.16                          | 80.00            | -21.84              |
| 6498.69                                                  |                            |                           |                      | 56.01                     | A | 43.84                    | 5.78                    | 36.90                  | 54.84                          | 60.00            | -5.16               |
| 9748.03                                                  | 49.83                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.15                  | 52.71                          | 80.00            | -27.29              |
| 9748.03                                                  |                            |                           |                      | 38.12                     | A | 43.25                    | 6.99                    | 39.15                  | 41.00                          | 60.00            | -19.00              |
| EUT in Continuous Receive Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.67                                                  | 50.33                      | 100                       | 135                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 41.60                          | 80.00            | -38.40              |
| 3282.67                                                  |                            |                           |                      | 41.70                     | A | 43.10                    | 3.91                    | 30.46                  | 32.97                          | 60.00            | -27.03              |
| 6565.34                                                  | 57.17                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.38                  | 56.54                          | 80.00            | -23.46              |
| 6565.34                                                  |                            |                           |                      | 53.28                     | A | 43.84                    | 5.83                    | 37.38                  | 52.65                          | 60.00            | -7.35               |
| 9848.04                                                  | 50.00                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.33                  | 53.07                          | 80.00            | -26.93              |
| 9848.04                                                  |                            |                           |                      | 38.54                     | A | 43.29                    | 7.03                    | 39.33                  | 41.61                          | 60.00            | -18.39              |

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**AEGIS LABS** INC.

***Amphenol (Samsung Neon)***  
***TEST DATA***

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

|                       |                                                                                                                                                         |                        |              |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                                                       | <b>DATE:</b>           | 10/29/04     |
| <b>EUT:</b>           | Intel PRO/Wireless 2915ABG Network Connection                                                                                                           | <b>PROJECT NUMBER:</b> | INTEL-041021 |
| <b>MODEL NUMBER:</b>  | WM3B2915ABG                                                                                                                                             | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 344F96244ABC51962012                                                                                                                                    | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in the Hewlett Packard host computer's mini PCI slot in <b>802.11a (5745-5825 MHz) mode with the Amphenol (Samsung Neon) antennas.</b> | <b>TEMPERATURE:</b>    | 16 C         |
|                       |                                                                                                                                                         | <b>HUMIDITY:</b>       | 65% RH       |
|                       |                                                                                                                                                         | <b>TIME:</b>           | 8:00 AM      |

|                     |                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard:</b>    | FCC CFR 47, Part 15.247(c)                                                                                                                                                                         |
| <b>Description:</b> | Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc. |
| <b>Results:</b>     | Passes (See Data Sheets)                                                                                                                                                                           |

| Unwanted Spurious Emissions Limits |                       |                                                                |                                                                      |
|------------------------------------|-----------------------|----------------------------------------------------------------|----------------------------------------------------------------------|
| Frequency (MHz)                    | Field Strength (uV/m) | Field Strength (dBuV/m)<br>(Emissions in the restricted bands) | Field Strength (dBm/MHz)<br>(Emissions outside the restricted bands) |
| Above 960                          | 500                   | 54.00 (Average)<br>74.00 (Peak)                                | < -20 dBc                                                            |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11a mode (5745-5825 MHz)  
Channels 149, 157, & 169  
Continuous TX at MAIN Antenna port with Amphenol (Samsung Neon) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-12*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 5745.00        | 67.83                      | 100                       | 135                  |                           |                          |                         | 5.25                   | 34.85                          | 107.92           |                     |
| 5745.00        |                            |                           |                      | 58.67                     | A                        |                         | 5.25                   | 34.85                          | 98.76            |                     |
| 5785.00        | 65.83                      | 100                       | 135                  |                           |                          |                         | 5.27                   | 34.87                          | 105.97           |                     |
| 5785.00        |                            |                           |                      | 55.49                     | A                        |                         | 5.27                   | 34.87                          | 95.63            |                     |
| 5825.00        | 69.50                      | 150                       | 135                  |                           |                          |                         | 5.30                   | 34.90                          | 109.70           |                     |
| 5825.00        |                            |                           |                      | 59.50                     | A                        |                         | 5.30                   | 34.90                          | 99.70            |                     |

### RADIATED EMISSIONS – Vertical Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 5745.00        | 63.83                      | 100                       | 90                   |                           |                          |                         | 5.25                   | 34.85                          | 103.92           |                     |
| 5745.00        |                            |                           |                      | 54.10                     | A                        |                         | 5.25                   | 34.85                          | 94.19            |                     |
| 5785.00        | 64.33                      | 100                       | 225                  |                           |                          |                         | 5.27                   | 34.87                          | 104.47           |                     |
| 5785.00        |                            |                           |                      | 54.30                     | A                        |                         | 5.27                   | 34.87                          | 94.44            |                     |
| 5825.00        | 64.67                      | 150                       | 270                  |                           |                          |                         | 5.30                   | 34.90                          | 104.87           |                     |
| 5825.00        |                            |                           |                      | 54.71                     | A                        |                         | 5.30                   | 34.90                          | 94.91            |                     |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11a mode (5745-5825 MHz)  
Channels 149, 157, & 169  
Continuous TX at MAIN Antenna port with Amphenol (Samsung Neon) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-12*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 5725.00        | 39.17                      | 100                       | 135                  |                           |                          | 5.23                    | 34.84                  | 79.24                          | 87.92            | -8.69               |
| 5850.00        | 31.83                      | 150                       | 135                  |                           |                          | 5.32                    | 34.91                  | 72.06                          | 89.70            | -17.64              |

### RADIATED EMISSIONS – Vertical Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 5725.00        | 34.67                      | 100                       | 90                   |                           |                          | 5.23                    | 34.84                  | 74.74                          | 83.92            | -9.19               |
| 5850.00        | 30.67                      | 150                       | 225                  |                           |                          | 5.32                    | 34.91                  | 70.90                          | 84.87            | -13.97              |

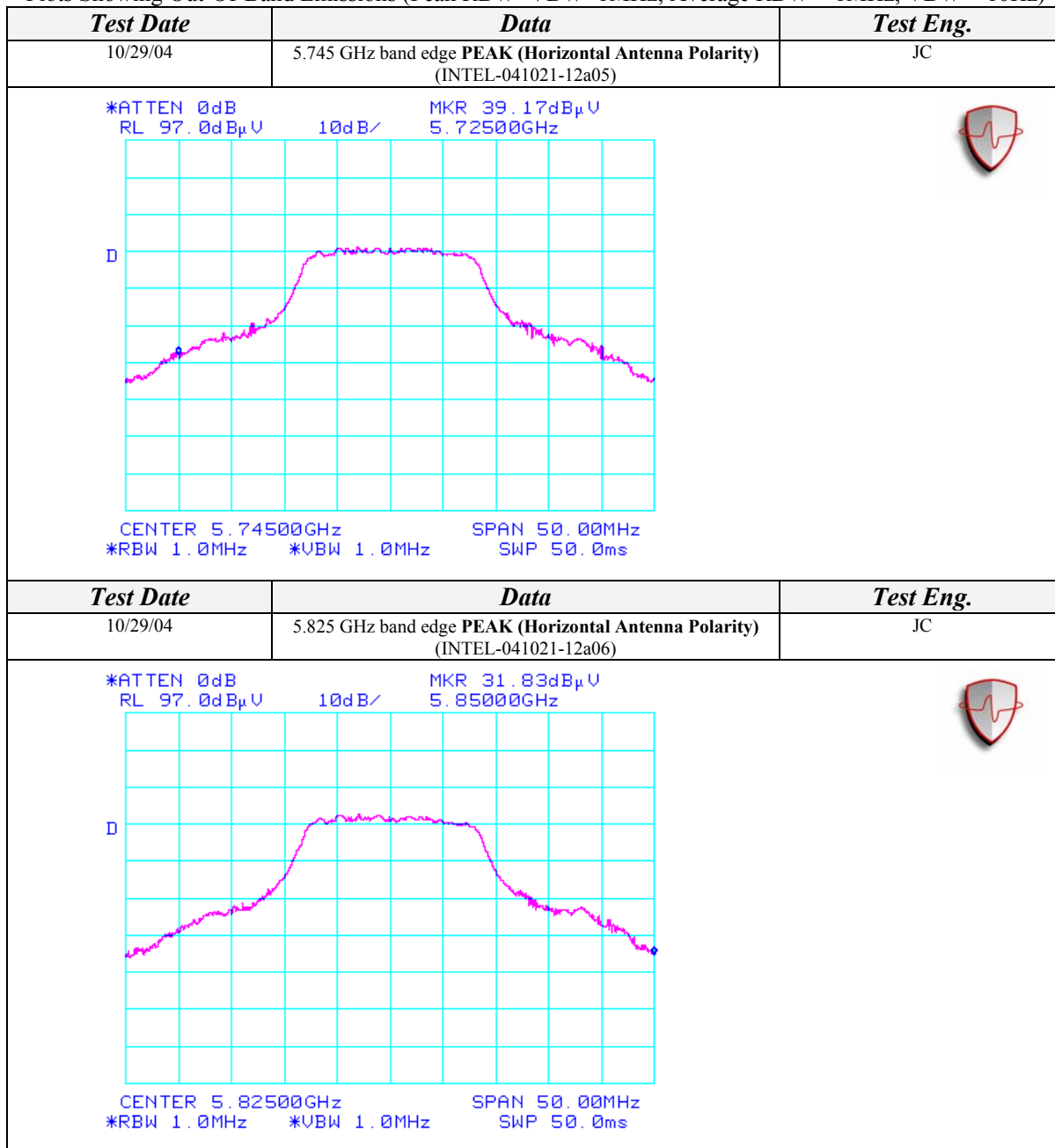
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



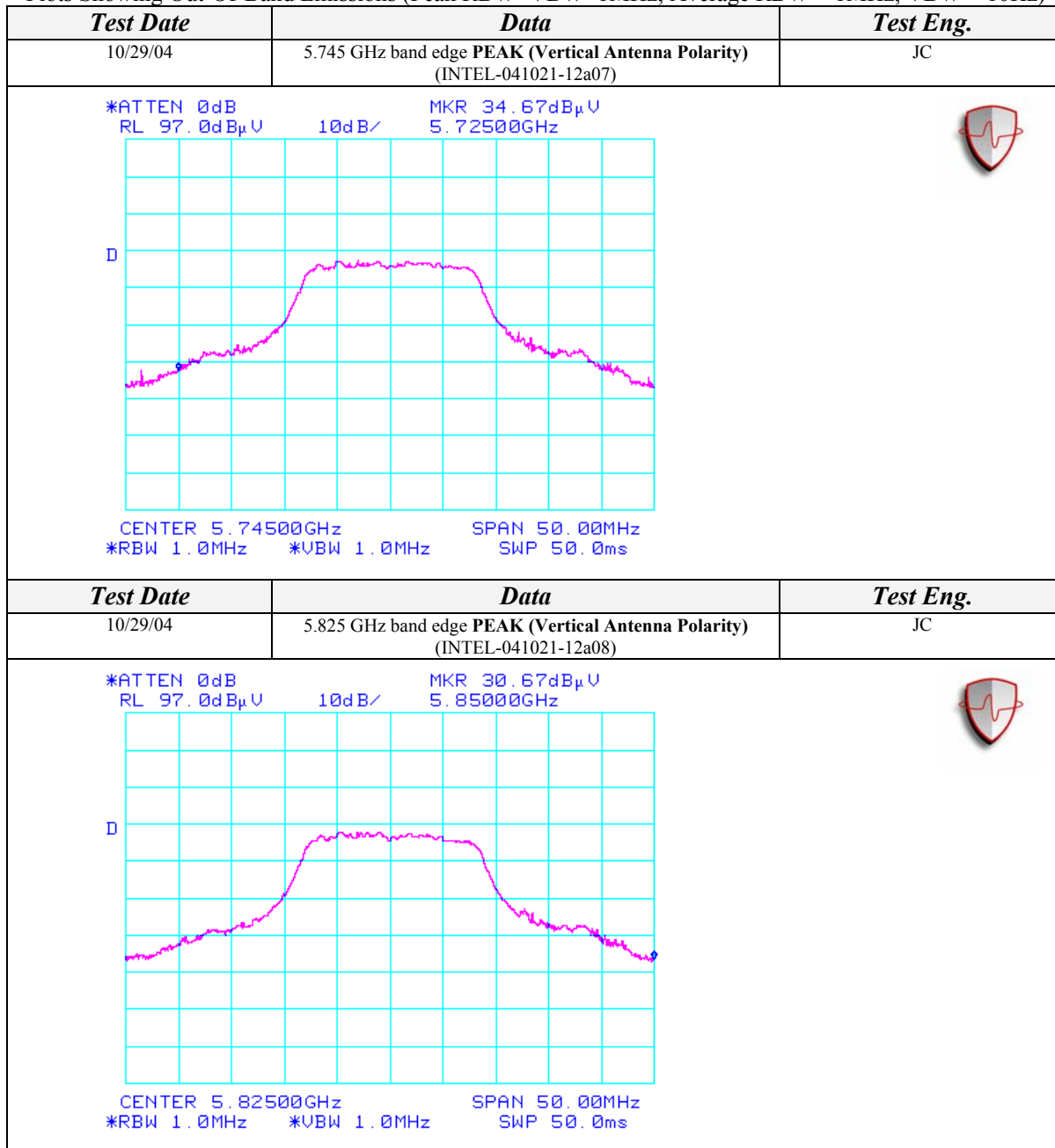
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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5745-5825 MHz)  
Channels 149, 157, & 169  
Continuous TX at MAIN Antenna port with Amphenol (Samsung Neon) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-14*

| RADIATED EMISSIONS - Horizontal Antenna Polarization              |                            |                           |                      |                           |   |                                |                         |                        |                                |                  |                     |
|-------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                                    | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamplifier<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| <b>EUT in Continuous Transmit Mode on Channel 149 (5.745 GHz)</b> |                            |                           |                      |                           |   |                                |                         |                        |                                |                  |                     |
| 3830.00                                                           | 61.33                      | 100                       | 180                  |                           |   | 43.17                          | 4.18                    | 31.16                  | 53.50                          | 74.00            | -20.50              |
| 3830.00                                                           |                            |                           |                      | 58.93                     | A | 43.17                          | 4.18                    | 31.16                  | 51.10                          | 54.00            | -2.90               |
| 7660.00                                                           | 53.00                      | 100                       | 135                  |                           |   | 43.62                          | 6.27                    | 40.05                  | 55.70                          | 74.00            | -18.30              |
| 7660.00                                                           |                            |                           |                      | 45.45                     | A | 43.62                          | 6.27                    | 40.05                  | 48.15                          | 54.00            | -5.85               |
| 11490.00                                                          | 50.33                      | 100                       | 180                  |                           |   | 43.50                          | 7.64                    | 41.18                  | 55.65                          | 74.00            | -18.35              |
| 11490.00                                                          |                            |                           |                      | 38.63                     | A | 43.50                          | 7.64                    | 41.18                  | 43.95                          | 54.00            | -10.05              |
| 15319.89                                                          | 50.00                      | 100                       | 135                  |                           |   | 43.39                          | 8.80                    | 41.49                  | 56.90                          | 87.92            | -31.02              |
| <b>EUT in Continuous Transmit Mode on Channel 157 (5.785 GHz)</b> |                            |                           |                      |                           |   |                                |                         |                        |                                |                  |                     |
| 3856.66                                                           | 62.83                      | 100                       | 180                  |                           |   | 43.17                          | 4.21                    | 31.23                  | 55.09                          | 74.00            | -18.91              |
| 3856.66                                                           |                            |                           |                      | 60.38                     | A | 43.17                          | 4.21                    | 31.23                  | 52.64                          | 54.00            | -1.36               |
| 7713.33                                                           | 53.33                      | 100                       | 135                  |                           |   | 43.60                          | 6.29                    | 40.20                  | 56.22                          | 74.00            | -17.78              |
| 7713.33                                                           |                            |                           |                      | 47.28                     | A | 43.60                          | 6.29                    | 40.20                  | 50.17                          | 54.00            | -3.83               |
| 11569.98                                                          | 50.50                      | 100                       | 135                  |                           |   | 43.48                          | 7.66                    | 41.38                  | 56.07                          | 74.00            | -17.93              |
| 11569.98                                                          |                            |                           |                      | 39.00                     | A | 43.48                          | 7.66                    | 41.38                  | 44.57                          | 54.00            | -9.43               |
| 15426.58                                                          | 48.33                      | 100                       | 135                  |                           |   | 43.35                          | 8.80                    | 41.56                  | 55.34                          | 74.00            | -18.66              |
| 15426.58                                                          |                            |                           |                      | 35.84                     | A | 43.35                          | 8.80                    | 41.56                  | 42.85                          | 54.00            | -11.15              |
| <b>EUT in Continuous Transmit Mode on Channel 165 (5.825 GHz)</b> |                            |                           |                      |                           |   |                                |                         |                        |                                |                  |                     |
| 3883.34                                                           | 63.17                      | 100                       | 135                  |                           |   | 43.17                          | 4.23                    | 31.30                  | 55.52                          | 74.00            | -18.48              |
| 3883.34                                                           |                            |                           |                      | 61.40                     | A | 43.17                          | 4.23                    | 31.30                  | 53.75                          | 54.00            | -0.25               |
| 7766.66                                                           | 53.17                      | 100                       | 135                  |                           |   | 43.58                          | 6.32                    | 40.35                  | 56.25                          | 89.70            | -33.45              |
| 11650.00                                                          | 50.33                      | 100                       | 135                  |                           |   | 43.45                          | 7.69                    | 41.59                  | 56.16                          | 74.00            | -17.84              |
| 11650.00                                                          |                            |                           |                      | 38.17                     | A | 43.45                          | 7.69                    | 41.59                  | 44.00                          | 54.00            | -10.00              |
| 15533.23                                                          | 48.17                      | 100                       | 180                  |                           |   | 43.35                          | 8.82                    | 41.71                  | 55.35                          | 74.00            | -18.65              |
| 15533.23                                                          |                            |                           |                      | 36.20                     | A | 43.35                          | 8.82                    | 41.71                  | 43.38                          | 54.00            | -10.62              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization         |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                             | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 149 (5.745 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3830.00                                                    | 60.17                      | 150                       | 135                  |                           |   | 43.17                    | 4.18                    | 31.09                  | 52.28                          | 74.00            | -21.72              |
| 3830.00                                                    |                            |                           |                      | 57.76                     | A | 43.17                    | 4.18                    | 31.09                  | 49.87                          | 54.00            | -4.13               |
| 7660.00                                                    | 52.67                      | 100                       | 225                  |                           |   | 43.62                    | 6.27                    | 40.11                  | 55.44                          | 74.00            | -18.56              |
| 7660.00                                                    |                            |                           |                      | 45.81                     | A | 43.62                    | 6.27                    | 40.11                  | 48.58                          | 54.00            | -5.42               |
| 11490.00                                                   | 51.00                      | 100                       | 135                  |                           |   | 43.50                    | 7.64                    | 41.66                  | 56.80                          | 74.00            | -17.20              |
| 11490.00                                                   |                            |                           |                      | 40.41                     | A | 43.50                    | 7.64                    | 41.66                  | 46.21                          | 54.00            | -7.79               |
| EUT in Continuous Transmit Mode on Channel 157 (5.785 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3856.66                                                    | 61.67                      | 100                       | 90                   |                           |   | 43.17                    | 4.21                    | 31.14                  | 53.85                          | 74.00            | -20.15              |
| 3856.66                                                    |                            |                           |                      | 59.00                     | A | 43.17                    | 4.21                    | 31.14                  | 51.18                          | 54.00            | -2.82               |
| 7713.33                                                    | 52.50                      | 100                       | 225                  |                           |   | 43.60                    | 6.29                    | 40.28                  | 55.48                          | 74.00            | -18.52              |
| 7713.33                                                    |                            |                           |                      | 45.40                     | A | 43.60                    | 6.29                    | 40.28                  | 48.38                          | 54.00            | -5.62               |
| 11569.98                                                   | 50.50                      | 100                       | 135                  |                           |   | 43.48                    | 7.66                    | 41.81                  | 56.50                          | 74.00            | -17.50              |
| 11569.98                                                   |                            |                           |                      | 38.52                     | A | 43.48                    | 7.66                    | 41.81                  | 44.52                          | 54.00            | -9.48               |
| EUT in Continuous Transmit Mode on Channel 165 (5.825 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3883.33                                                    | 60.00                      | 100                       | 90                   |                           |   | 43.17                    | 4.23                    | 31.19                  | 52.25                          | 74.00            | -21.75              |
| 3883.33                                                    |                            |                           |                      | 56.73                     | A | 43.17                    | 4.23                    | 31.19                  | 48.98                          | 54.00            | -5.02               |
| 7766.66                                                    | 53.00                      | 150                       | 135                  |                           |   | 43.58                    | 6.32                    | 40.45                  | 56.19                          | 84.87            | -28.68              |
| 11650.00                                                   | 50.33                      | 100                       | 135                  |                           |   | 43.45                    | 7.69                    | 41.94                  | 56.51                          | 74.00            | -17.49              |
| 11650.00                                                   |                            |                           |                      | 38.82                     | A | 43.45                    | 7.69                    | 41.94                  | 45.00                          | 54.00            | -9.00               |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5745-5825 MHz)  
Channels 149, 157, & 169  
Continuous RX at MAIN Antenna port with Amphenol (Samsung Neon) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-14*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Receive Mode on Channel 149 (5.745 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3830.00                                                          | 51.67                      | 125                       | 180                  |                           |   | 43.17                    | 4.18                    | 31.16                  | 43.84                          | 80.00            | -36.16              |
| 3830.00                                                          |                            |                           |                      | 43.43                     | A | 43.17                    | 4.18                    | 31.16                  | 35.60                          | 60.00            | -24.40              |
| 7660.00                                                          | 53.50                      | 100                       | 135                  |                           |   | 43.62                    | 6.27                    | 40.05                  | 56.20                          | 80.00            | -23.80              |
| 7660.00                                                          |                            |                           |                      | 47.46                     | A | 43.62                    | 6.27                    | 40.05                  | 50.16                          | 60.00            | -9.84               |
| 11489.92                                                         | 50.67                      | 100                       | 135                  |                           |   | 43.50                    | 7.64                    | 41.18                  | 55.99                          | 80.00            | -24.01              |
| 11489.92                                                         |                            |                           |                      | 39.39                     | A | 43.50                    | 7.64                    | 41.18                  | 44.71                          | 60.00            | -15.29              |
| <b>EUT in Continuous Receive Mode on Channel 157 (5.785 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3856.62                                                          | 51.50                      | 100                       | 135                  |                           |   | 43.17                    | 4.21                    | 31.23                  | 43.76                          | 80.00            | -36.24              |
| 3856.62                                                          |                            |                           |                      | 42.99                     | A | 43.17                    | 4.21                    | 31.23                  | 35.25                          | 60.00            | -24.75              |
| 7713.32                                                          | 53.17                      | 100                       | 135                  |                           |   | 43.60                    | 6.29                    | 40.20                  | 56.06                          | 80.00            | -23.94              |
| 7713.32                                                          |                            |                           |                      | 46.48                     | A | 43.60                    | 6.29                    | 40.20                  | 49.37                          | 60.00            | -10.63              |
| 11569.92                                                         | 50.57                      | 150                       | 135                  |                           |   | 43.48                    | 7.66                    | 41.38                  | 56.14                          | 80.00            | -23.86              |
| 11569.92                                                         |                            |                           |                      | 40.98                     | A | 43.48                    | 7.66                    | 41.38                  | 46.55                          | 60.00            | -13.45              |
| <b>EUT in Continuous Receive Mode on Channel 165 (5.825 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3883.34                                                          | 52.33                      | 100                       | 135                  |                           |   | 43.17                    | 4.23                    | 31.30                  | 44.68                          | 80.00            | -35.32              |
| 3883.34                                                          |                            |                           |                      | 43.58                     | A | 43.17                    | 4.23                    | 31.30                  | 35.93                          | 60.00            | -24.07              |
| 7766.62                                                          | 52.83                      | 100                       | 135                  |                           |   | 43.58                    | 6.32                    | 40.35                  | 55.91                          | 80.00            | -24.09              |
| 7766.62                                                          |                            |                           |                      | 45.49                     | A | 43.58                    | 6.32                    | 40.35                  | 48.57                          | 60.00            | -11.43              |
| 11649.94                                                         | 50.33                      | 100                       | 135                  |                           |   | 43.45                    | 7.69                    | 41.59                  | 56.16                          | 80.00            | -23.84              |
| 11649.94                                                         |                            |                           |                      | 38.89                     | A | 43.45                    | 7.69                    | 41.59                  | 44.72                          | 60.00            | -15.28              |

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## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization        |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|-----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Receive Mode on Channel 149 (5.745 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3830.00                                                   | 51.00                      | 100                       | 135                  |                           |   | 43.17                    | 4.18                    | 31.16                  | 43.17                          | 80.00            | -36.83              |
| 3830.00                                                   |                            |                           |                      | 42.09                     | A | 43.17                    | 4.18                    | 31.16                  | 34.26                          | 60.00            | -25.74              |
| 7660.00                                                   | 51.00                      | 100                       | 135                  |                           |   | 43.62                    | 6.27                    | 40.05                  | 53.70                          | 80.00            | -26.30              |
| 7660.00                                                   |                            |                           |                      | 39.46                     | A | 43.62                    | 6.27                    | 40.05                  | 42.16                          | 60.00            | -17.84              |
| 11489.92                                                  | 50.33                      | 100                       | 135                  |                           |   | 43.50                    | 7.64                    | 41.18                  | 55.65                          | 80.00            | -24.35              |
| 11489.92                                                  |                            |                           |                      | 39.74                     | A | 43.50                    | 7.64                    | 41.18                  | 45.06                          | 60.00            | -14.94              |
| EUT in Continuous Receive Mode on Channel 157 (5.785 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3856.65                                                   | 51.33                      | 100                       | 135                  |                           |   | 43.17                    | 4.21                    | 31.14                  | 43.51                          | 80.00            | -36.49              |
| 3856.65                                                   |                            |                           |                      | 42.51                     | A | 43.17                    | 4.21                    | 31.14                  | 34.69                          | 60.00            | -25.31              |
| 7713.29                                                   | 50.33                      | 100                       | 135                  |                           |   | 43.60                    | 6.29                    | 40.28                  | 53.31                          | 80.00            | -26.69              |
| 7713.29                                                   |                            |                           |                      | 40.47                     | A | 43.60                    | 6.29                    | 40.28                  | 43.45                          | 60.00            | -16.55              |
| 11569.91                                                  | 50.17                      | 100                       | 135                  |                           |   | 43.48                    | 7.66                    | 41.81                  | 56.17                          | 80.00            | -23.83              |
| 11569.91                                                  |                            |                           |                      | 39.22                     | A | 43.48                    | 7.66                    | 41.81                  | 45.22                          | 60.00            | -14.78              |
| EUT in Continuous Receive Mode on Channel 165 (5.825 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3883.35                                                   | 51.67                      | 100                       | 135                  |                           |   | 43.17                    | 4.23                    | 31.19                  | 43.92                          | 80.00            | -36.08              |
| 3883.35                                                   |                            |                           |                      | 41.48                     | A | 43.17                    | 4.23                    | 31.19                  | 33.73                          | 60.00            | -26.27              |
| 7766.63                                                   | 51.00                      | 125                       | 135                  |                           |   | 43.58                    | 6.32                    | 40.45                  | 54.19                          | 80.00            | -25.81              |
| 7766.63                                                   |                            |                           |                      | 41.89                     | A | 43.58                    | 6.32                    | 40.45                  | 45.08                          | 60.00            | -14.92              |
| 11649.97                                                  | 50.67                      | 100                       | 135                  |                           |   | 43.45                    | 7.69                    | 41.94                  | 56.85                          | 80.00            | -23.15              |
| 11649.97                                                  |                            |                           |                      | 39.57                     | A | 43.45                    | 7.69                    | 41.94                  | 45.75                          | 60.00            | -14.25              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

|                       |                                                                                                                                                         |                        |              |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                                                       | <b>DATE:</b>           | 10/29/04     |
| <b>EUT:</b>           | Intel PRO/Wireless 2915ABG Network Connection                                                                                                           | <b>PROJECT NUMBER:</b> | INTEL-041021 |
| <b>MODEL NUMBER:</b>  | WM3B2915ABG                                                                                                                                             | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 344F96244ABC51962012                                                                                                                                    | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in the Hewlett Packard host computer's mini PCI slot in <b>802.11b (2412-2462 MHz) mode with the Amphenol (Samsung Neon) antennas.</b> | <b>TEMPERATURE:</b>    | 16 C         |
|                       |                                                                                                                                                         | <b>HUMIDITY:</b>       | 65% RH       |
|                       |                                                                                                                                                         | <b>TIME:</b>           | 8:00 AM      |

|                     |                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard:</b>    | FCC CFR 47, Part 15.247(c)                                                                                                                                                                         |
| <b>Description:</b> | Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc. |
| <b>Results:</b>     | Passes (See Data Sheets)                                                                                                                                                                           |

| Unwanted Spurious Emissions Limits |                       |                                                                |                                                                      |
|------------------------------------|-----------------------|----------------------------------------------------------------|----------------------------------------------------------------------|
| Frequency (MHz)                    | Field Strength (uV/m) | Field Strength (dBuV/m)<br>(Emissions in the restricted bands) | Field Strength (dBm/MHz)<br>(Emissions outside the restricted bands) |
| Above 960                          | 500                   | 54.00 (Average)<br>74.00 (Peak)                                | < -20 dBc                                                            |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11b mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with Amphenol (Samsung Neon) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-12*

| RADIATED EMISSIONS - Horizontal Antenna Polarization |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                       | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| 2412.00                                              | 75.50                      | 100                       | 135                  |                           |   |                          | 3.30                    | 31.11                  | 109.91                         |                  |                     |
| 2412.00                                              |                            |                           |                      | 71.69                     | A |                          | 3.30                    | 31.11                  | 106.10                         |                  |                     |
| 2437.00                                              | 77.83                      | 100                       | 135                  |                           |   |                          | 3.32                    | 31.05                  | 112.20                         |                  |                     |
| 2437.00                                              |                            |                           |                      | 74.46                     | A |                          | 3.32                    | 31.05                  | 108.83                         |                  |                     |
| 2462.00                                              | 77.00                      | 150                       | 135                  |                           |   |                          | 3.34                    | 30.99                  | 111.33                         |                  |                     |
| 2462.00                                              |                            |                           |                      | 73.32                     | A |                          | 3.34                    | 30.99                  | 107.65                         |                  |                     |

| RADIATED EMISSIONS – Vertical Antenna Polarization |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|----------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                     | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| 2412.00                                            | 70.17                      | 150                       | 225                  |                           |   |                          | 3.30                    | 31.24                  | 104.71                         |                  |                     |
| 2412.00                                            |                            |                           |                      | 66.24                     | A |                          | 3.30                    | 31.24                  | 100.78                         |                  |                     |
| 2437.00                                            | 70.00                      | 100                       | 135                  |                           |   |                          | 3.32                    | 31.20                  | 104.52                         |                  |                     |
| 2437.00                                            |                            |                           |                      | 66.52                     | A |                          | 3.32                    | 31.20                  | 101.04                         |                  |                     |
| 2462.00                                            | 70.00                      | 100                       | 270                  |                           |   |                          | 3.34                    | 31.16                  | 104.50                         |                  |                     |
| 2462.00                                            |                            |                           |                      | 66.49                     | A |                          | 3.34                    | 31.16                  | 100.99                         |                  |                     |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.

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## Spurious Radiated Emissions Test Results (Continued)

**Band Edge Field Strength Measurements in 802.11b mode (2412-2462 MHz)**  
**Channels 1, 6, & 11**  
**Continuous TX at MAIN Antenna port with Amphenol (Samsung Neon) Antennas**  
**Aegis Labs, Inc. File #: INTEL-041021-12**

| RADIATED EMISSIONS - Horizontal Antenna Polarization |                            |                           |                      |                           |  |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|--|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                       | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |  | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| 2390.00                                              |                            |                           |                      |                           |  |                          |                         |                        | 55.74                          | 74.00            | -18.26              |
| 2390.00                                              |                            |                           |                      |                           |  |                          |                         |                        | 43.76                          | 54.00            | -10.24              |
| 2359.80                                              |                            |                           |                      |                           |  |                          |                         |                        | 58.08                          | 74.00            | -15.92              |
| 2359.80                                              |                            |                           |                      |                           |  |                          |                         |                        | 44.76                          | 54.00            | -9.24               |
| 2400.00                                              | 41.00                      | 100                       | 135                  |                           |  |                          | 3.29                    | 31.14                  | 75.43                          | 89.91            | -14.48              |
| 2483.50                                              |                            |                           |                      |                           |  |                          |                         |                        | 56.83                          | 74.00            | -17.17              |
| 2483.50                                              |                            |                           |                      |                           |  |                          |                         |                        | 45.32                          | 54.00            | -8.68               |
| 2520.70                                              |                            |                           |                      |                           |  |                          |                         |                        | 57.67                          | 74.00            | -16.33              |
| 2520.70                                              |                            |                           |                      |                           |  |                          |                         |                        | 46.15                          | 54.00            | -7.85               |
| RADIATED EMISSIONS – Vertical Antenna Polarization   |                            |                           |                      |                           |  |                          |                         |                        |                                |                  |                     |
| Freq.<br>(MHz)                                       | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |  | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| 2390.00                                              |                            |                           |                      |                           |  |                          |                         |                        | 50.54                          | 74.00            | -23.46              |
| 2390.00                                              |                            |                           |                      |                           |  |                          |                         |                        | 38.44                          | 54.00            | -15.56              |
| 2359.80                                              |                            |                           |                      |                           |  |                          |                         |                        | 52.88                          | 74.00            | -21.12              |
| 2359.80                                              |                            |                           |                      |                           |  |                          |                         |                        | 39.44                          | 54.00            | -14.56              |
| 2400.00                                              | 37.50                      | 150                       | 225                  |                           |  |                          | 3.29                    | 31.26                  | 72.05                          | 84.71            | -12.66              |
| 2483.50                                              |                            |                           |                      |                           |  |                          |                         |                        | 50.00                          | 74.00            | -24.00              |
| 2483.50                                              |                            |                           |                      |                           |  |                          |                         |                        | 38.66                          | 54.00            | -15.34              |
| 2520.70                                              |                            |                           |                      |                           |  |                          |                         |                        | 50.84                          | 74.00            | -23.16              |
| 2520.70                                              |                            |                           |                      |                           |  |                          |                         |                        | 39.49                          | 54.00            | -14.51              |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = F_m - \Delta m$$

Where

BE = Band Edge Field Strength

F<sub>m</sub> = Measured Fundamental (Peak or Average)

Δm = Measured Conducted Band Edge Delta (Peak or Average)

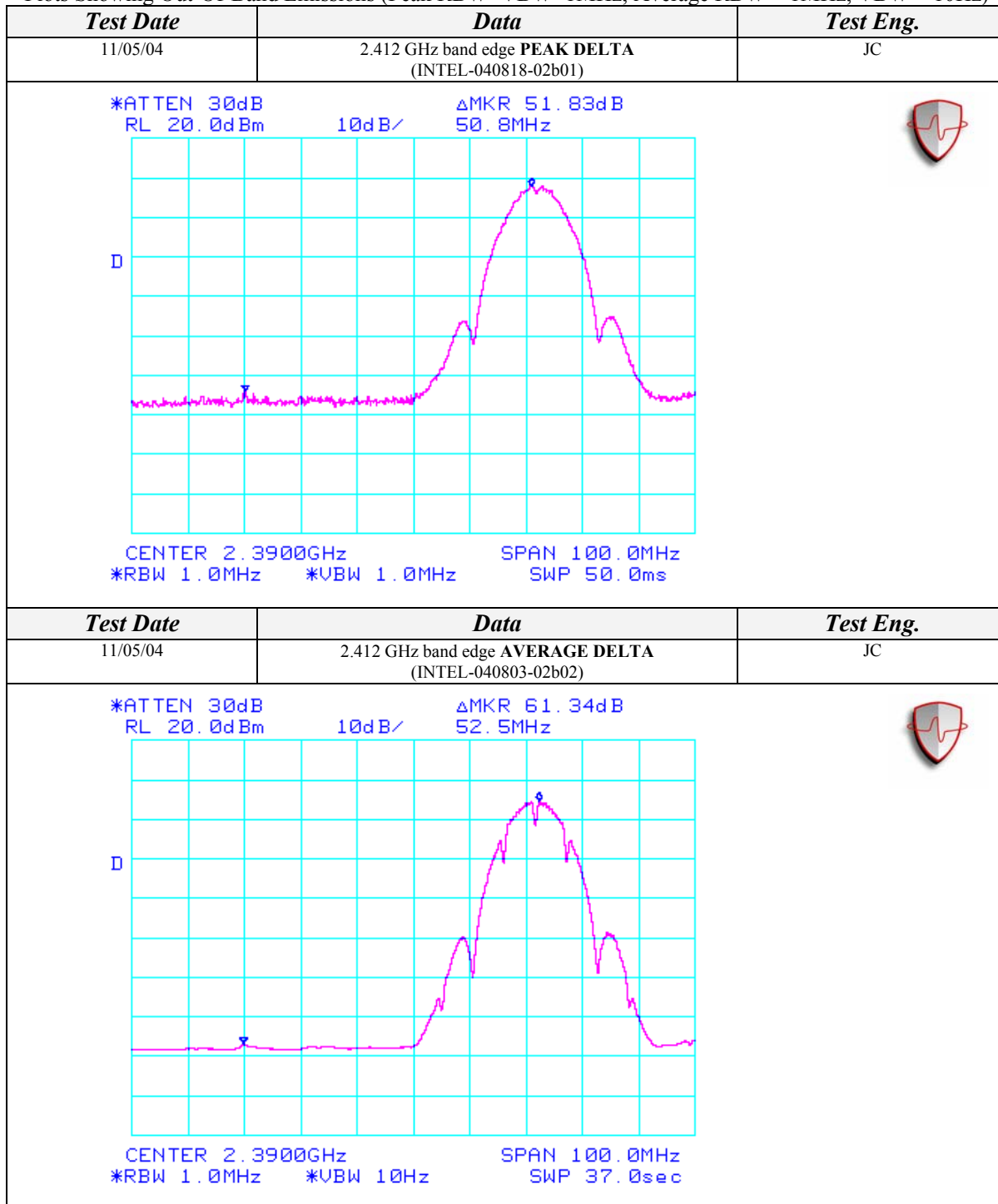
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



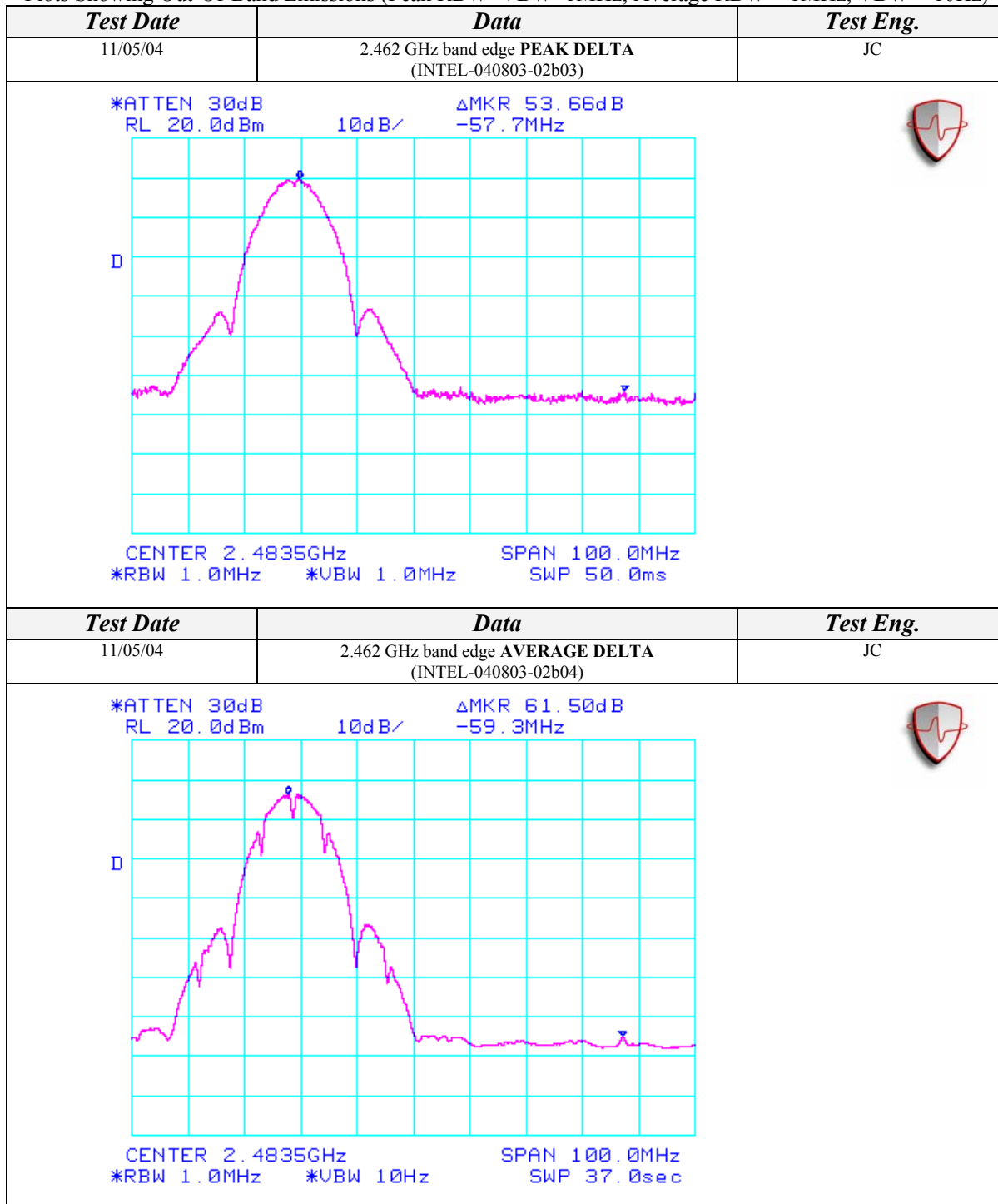
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11b mode (2412-2462 MHz)*  
*Channels 1, 6, & 11*  
**Continuous TX at MAIN Antenna port with Amphenol (Samsung Neon) Antennas**  
*Aegis Labs, Inc. File #: INTEL-041021-13*

| RADIATED EMISSIONS - Horizontal Antenna Polarization      |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
|-----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|---------------------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | 1 Meter<br>Distance<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2312.00                                                   | 31.33                      | 100                       | 225                  |                           |   | 9.54                                  | 3.23                    | 31.35                  | 56.37                          | 74.00            | -17.63              |
| 2312.00                                                   |                            |                           |                      | 15.33                     | A | 9.54                                  | 3.23                    | 31.35                  | 40.37                          | 54.00            | -13.63              |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2336.00                                                   | 32.33                      | 100                       | 90                   |                           |   | 9.54                                  | 3.25                    | 31.29                  | 57.33                          | 74.00            | -16.67              |
| 2336.00                                                   |                            |                           |                      | 16.13                     | A | 9.54                                  | 3.25                    | 31.29                  | 41.13                          | 54.00            | -12.87              |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2358.66                                                   | 31.50                      | 100                       | 135                  |                           |   | 9.54                                  | 3.26                    | 31.24                  | 56.46                          | 74.00            | -17.54              |
| 2358.66                                                   |                            |                           |                      | 15.04                     | A | 9.54                                  | 3.26                    | 31.24                  | 40.00                          | 54.00            | -14.00              |
| RADIATED EMISSIONS - Vertical Antenna Polarization        |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | 1 Meter<br>Distance<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2312.00                                                   | 31.89                      | 100                       | 270                  |                           |   | 9.54                                  | 3.23                    | 31.40                  | 56.98                          | 74.00            | -17.02              |
| 2312.00                                                   |                            |                           |                      | 15.40                     | A | 9.54                                  | 3.23                    | 31.40                  | 40.49                          | 54.00            | -13.51              |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2336.00                                                   | 31.33                      | 100                       | 135                  |                           |   | 9.54                                  | 3.25                    | 31.36                  | 56.40                          | 74.00            | -17.60              |
| 2336.00                                                   |                            |                           |                      | 15.59                     | A | 9.54                                  | 3.25                    | 31.36                  | 40.66                          | 54.00            | -13.34              |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2358.66                                                   | 31.50                      | 100                       | 135                  |                           |   | 9.54                                  | 3.26                    | 31.33                  | 56.55                          | 74.00            | -17.45              |
| 2358.66                                                   |                            |                           |                      | 14.58                     | A | 9.54                                  | 3.26                    | 31.33                  | 39.63                          | 54.00            | -14.37              |

NOTE: These spurious emissions measurements were taken without a preamp at a distance on 1 meter to avoid saturating the preamp and analyzer because the signals were close to the fundamental frequency. The readings were extrapolated to 1 meter.

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## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11b mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with Amphenol (Samsung Neon) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-14*

| RADIATED EMISSIONS - Horizontal Antenna Polarization      |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|-----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                   | 51.50                      | 100                       | 225                  |                           |   | 43.07                    | 3.89                    | 30.24                  | 42.56                          | 89.91            | -47.35              |
| 4824.01                                                   | 57.33                      | 125                       | 225                  |                           |   | 43.27                    | 4.73                    | 34.53                  | 53.32                          | 74.00            | -20.68              |
| 4824.01                                                   |                            |                           |                      | 53.54                     | A | 43.27                    | 4.73                    | 34.53                  | 49.53                          | 54.00            | -4.47               |
| 6431.98                                                   | 58.50                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 57.06                          | 89.91            | -32.85              |
| 9648.01                                                   | 51.00                      | 125                       | 90                   |                           |   | 43.22                    | 6.95                    | 38.88                  | 53.61                          | 89.91            | -36.30              |
| 12864.03                                                  | 50.00                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 43.86                  | 57.99                          | 89.91            | -31.92              |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.32                                                   | 51.00                      | 125                       | 225                  |                           |   | 43.08                    | 3.91                    | 30.25                  | 42.07                          | 92.20            | -50.13              |
| 4873.99                                                   | 51.00                      | 100                       | 180                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 47.20                          | 74.00            | -26.80              |
| 4873.99                                                   |                            |                           |                      | 42.09                     | A | 43.29                    | 4.77                    | 34.72                  | 38.29                          | 54.00            | -15.71              |
| 6498.69                                                   | 60.83                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.90                  | 59.66                          | 92.20            | -32.54              |
| 9747.96                                                   | 49.33                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.00                  | 52.06                          | 92.20            | -40.14              |
| 12997.37                                                  | 51.00                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.29                  | 59.48                          | 92.20            | -32.72              |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.69                                                   | 50.17                      | 125                       | 315                  |                           |   | 43.10                    | 3.91                    | 30.26                  | 41.24                          | 91.33            | -50.09              |
| 4924.00                                                   | 51.67                      | 125                       | 180                  |                           |   | 43.30                    | 4.81                    | 34.91                  | 48.08                          | 74.00            | -25.92              |
| 4924.00                                                   |                            |                           |                      | 43.90                     | A | 43.30                    | 4.81                    | 34.91                  | 40.31                          | 54.00            | -13.69              |
| 6565.34                                                   | 57.83                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.32                  | 57.14                          | 91.33            | -34.19              |
| 9848.01                                                   | 50.67                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.12                  | 53.53                          | 91.33            | -37.80              |
| 13130.67                                                  | 50.17                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.25                  | 58.79                          | 91.33            | -32.54              |

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## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization        |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|-----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                   | 50.83                      | 100                       | 135                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 42.09                          | 84.71            | -42.62              |
| 4823.98                                                   | 56.50                      | 125                       | 90                   |                           |   | 43.27                    | 4.73                    | 34.53                  | 52.49                          | 74.00            | -21.51              |
| 4823.98                                                   |                            |                           |                      | 52.56                     | A | 43.27                    | 4.73                    | 34.53                  | 48.55                          | 54.00            | -5.45               |
| 6431.95                                                   | 56.33                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 54.89                          | 84.71            | -29.82              |
| 9647.98                                                   | 52.83                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 55.53                          | 84.71            | -29.18              |
| 12864.01                                                  | 49.83                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 44.23                  | 58.18                          | 84.71            | -26.53              |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.32                                                   | 49.83                      | 100                       | 180                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 41.10                          | 84.52            | -43.42              |
| 4874.01                                                   | 50.67                      | 100                       | 135                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 46.87                          | 74.00            | -27.13              |
| 4874.01                                                   |                            |                           |                      | 42.44                     | A | 43.29                    | 4.77                    | 34.72                  | 38.64                          | 54.00            | -15.36              |
| 6498.66                                                   | 55.17                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.89                  | 54.00                          | 84.52            | -30.52              |
| 9748.04                                                   | 50.67                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.15                  | 53.55                          | 84.52            | -30.97              |
| 12997.35                                                  | 50.00                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.49                  | 58.68                          | 84.52            | -25.84              |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.66                                                   | 48.33                      | 100                       | 180                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 39.60                          | 84.50            | -44.90              |
| 4924.00                                                   | 50.67                      | 100                       | 270                  |                           |   | 43.30                    | 4.81                    | 34.91                  | 47.08                          | 74.00            | -26.92              |
| 4924.00                                                   |                            |                           |                      | 40.38                     | A | 43.30                    | 4.81                    | 34.91                  | 36.79                          | 54.00            | -17.21              |
| 6565.32                                                   | 53.17                      | 100                       | 90                   |                           |   | 43.84                    | 5.83                    | 37.38                  | 52.54                          | 84.50            | -31.96              |
| 9847.96                                                   | 49.83                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.33                  | 52.90                          | 84.50            | -31.60              |
| 13130.63                                                  | 50.00                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.45                  | 58.82                          | 84.50            | -25.68              |



AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in in802.11b mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous RX at MAIN Antenna port with Amphenol (Samsung Neon) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-14*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                  | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|-----------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3216.02                                                         | 53.17                      | 100                       | 225                  |                           |                          | 43.07                   | 3.89                   | 30.24                          | 44.23            | 80.00 -35.77        |
| 3216.02                                                         |                            |                           |                      | 41.04                     | A                        | 43.07                   | 3.89                   | 30.24                          | 32.10            | 60.00 -27.90        |
| 6432.00                                                         | 58.60                      | 125                       | 135                  |                           |                          | 43.82                   | 5.73                   | 36.64                          | 57.16            | 80.00 -22.84        |
| 6432.00                                                         |                            |                           |                      | 55.26                     | A                        | 43.82                   | 5.73                   | 36.64                          | 53.82            | 60.00 -6.18         |
| 9648.01                                                         | 50.00                      | 100                       | 180                  |                           |                          | 43.22                   | 6.95                   | 38.88                          | 52.61            | 80.00 -27.39        |
| 9648.01                                                         |                            |                           |                      | 38.24                     | A                        | 43.22                   | 6.95                   | 38.88                          | 40.85            | 60.00 -19.15        |
| <b>EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3249.32                                                         | 51.17                      | 100                       | 225                  |                           |                          | 43.08                   | 3.91                   | 30.25                          | 42.24            | 80.00 -37.76        |
| 3249.32                                                         |                            |                           |                      | 43.15                     | A                        | 43.08                   | 3.91                   | 30.25                          | 34.22            | 60.00 -25.78        |
| 6498.70                                                         | 59.67                      | 100                       | 135                  |                           |                          | 43.84                   | 5.78                   | 36.90                          | 58.50            | 80.00 -21.50        |
| 6498.70                                                         |                            |                           |                      | 56.64                     | A                        | 43.84                   | 5.78                   | 36.90                          | 55.47            | 60.00 -4.53         |
| 9747.99                                                         | 50.17                      | 100                       | 135                  |                           |                          | 43.25                   | 6.99                   | 39.00                          | 52.90            | 80.00 -27.10        |
| 9747.99                                                         |                            |                           |                      | 36.67                     | A                        | 43.25                   | 6.99                   | 39.00                          | 39.40            | 60.00 -20.60        |
| <b>EUT in Continuous Receive Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3282.66                                                         | 51.83                      | 100                       | 225                  |                           |                          | 43.10                   | 3.91                   | 30.26                          | 42.90            | 80.00 -37.10        |
| 3282.66                                                         |                            |                           |                      | 42.99                     | A                        | 43.10                   | 3.91                   | 30.26                          | 34.06            | 60.00 -25.94        |
| 6565.32                                                         | 57.50                      | 100                       | 135                  |                           |                          | 43.84                   | 5.83                   | 37.32                          | 56.81            | 80.00 -23.19        |
| 6565.32                                                         |                            |                           |                      | 53.69                     | A                        | 43.84                   | 5.83                   | 37.32                          | 53.00            | 60.00 -7.00         |
| 9848.01                                                         | 50.33                      | 100                       | 135                  |                           |                          | 43.29                   | 7.03                   | 39.12                          | 53.19            | 80.00 -26.81        |
| 9848.01                                                         |                            |                           |                      | 38.78                     | A                        | 43.29                   | 7.03                   | 39.12                          | 41.64            | 60.00 -18.36        |

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## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization       |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                           | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                  | 52.17                      | 100                       | 180                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 43.43                          | 80.00            | -36.57              |
| 3216.00                                                  |                            |                           |                      | 39.60                     | A | 43.07                    | 3.89                    | 30.44                  | 30.86                          | 60.00            | -29.14              |
| 6432.02                                                  | 55.67                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 54.23                          | 80.00            | -25.77              |
| 6432.02                                                  |                            |                           |                      | 51.70                     | A | 43.82                    | 5.73                    | 36.64                  | 50.26                          | 60.00            | -9.74               |
| 9648.02                                                  | 50.17                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 52.87                          | 80.00            | -27.13              |
| 9648.02                                                  |                            |                           |                      | 38.04                     | A | 43.22                    | 6.95                    | 38.97                  | 40.74                          | 60.00            | -19.26              |
| EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.32                                                  | 48.17                      | 100                       | 180                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 39.44                          | 80.00            | -40.56              |
| 3249.32                                                  |                            |                           |                      | 40.10                     | A | 43.08                    | 3.91                    | 30.45                  | 31.37                          | 60.00            | -28.63              |
| 6498.67                                                  | 57.67                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.89                  | 56.50                          | 80.00            | -23.50              |
| 6498.67                                                  |                            |                           |                      | 53.34                     | A | 43.84                    | 5.78                    | 36.89                  | 52.17                          | 60.00            | -7.83               |
| 9748.00                                                  | 49.67                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.15                  | 52.55                          | 80.00            | -27.45              |
| 9748.00                                                  |                            |                           |                      | 36.73                     | A | 43.25                    | 6.99                    | 39.15                  | 39.61                          | 60.00            | -20.39              |
| EUT in Continuous Receive Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.67                                                  | 51.00                      | 100                       | 180                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 42.27                          | 80.00            | -37.73              |
| 3282.67                                                  |                            |                           |                      | 38.82                     | A | 43.10                    | 3.91                    | 30.46                  | 30.09                          | 60.00            | -29.91              |
| 6565.32                                                  | 53.67                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.38                  | 53.04                          | 80.00            | -26.96              |
| 6565.32                                                  |                            |                           |                      | 48.24                     | A | 43.84                    | 5.83                    | 37.38                  | 47.61                          | 60.00            | -12.39              |
| 9847.98                                                  | 49.83                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.33                  | 52.90                          | 80.00            | -27.10              |
| 9847.98                                                  |                            |                           |                      | 36.73                     | A | 43.29                    | 7.03                    | 39.33                  | 39.80                          | 60.00            | -20.20              |

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## Spurious Radiated Emissions Test Results (Continued)

|                       |                                                                                                                                                        |                        |              |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                                                      | <b>DATE:</b>           | 10/29/04     |
| <b>EUT:</b>           | Intel PRO/Wireless 2915ABG Network Connection                                                                                                          | <b>PROJECT NUMBER:</b> | INTEL-041021 |
| <b>MODEL NUMBER:</b>  | WM3B2915ABG                                                                                                                                            | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 344F96244ABC51962012                                                                                                                                   | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in the Hewlett Packard host computer's mini PCI slot in <b>802.11g (2412-2462 MHz) mode with the Amphenol (Samsung Neon) antennas</b> | <b>TEMPERATURE:</b>    | 16 C         |
|                       |                                                                                                                                                        | <b>HUMIDITY:</b>       | 65% RH       |
|                       |                                                                                                                                                        | <b>TIME:</b>           | 8:00 AM      |

|                     |                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard:</b>    | FCC CFR 47, Part 15.247(c)                                                                                                                                                                         |
| <b>Description:</b> | Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc. |
| <b>Results:</b>     | Passes (See Data Sheets)                                                                                                                                                                           |

| Unwanted Spurious Emissions Limits |                       |                                                                |                                                                      |
|------------------------------------|-----------------------|----------------------------------------------------------------|----------------------------------------------------------------------|
| Frequency (MHz)                    | Field Strength (uV/m) | Field Strength (dBuV/m)<br>(Emissions in the restricted bands) | Field Strength (dBm/MHz)<br>(Emissions outside the restricted bands) |
| Above 960                          | 500                   | 54.00 (Average)<br>74.00 (Peak)                                | < -20 dBc                                                            |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11g mode (2412-2462 MHz)*  
*Channels 1, 6, & 11*  
**Continuous TX at MAIN Antenna port with Amphenol (Samsung Neon) Antennas**  
*Aegis Labs, Inc. File #: INTEL-041021-12*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 2412.00        | 78.50                      | 125                       | 135                  |                           |   |                          | 3.30                    | 31.11                  | 112.91                         |                  |                     |
| 2412.00        |                            |                           |                      | 68.28                     | A |                          | 3.30                    | 31.11                  | 102.69                         |                  |                     |
| 2437.00        | 79.16                      | 125                       | 135                  |                           |   |                          | 3.32                    | 31.05                  | 113.53                         |                  |                     |
| 2437.00        |                            |                           |                      | 68.97                     | A |                          | 3.32                    | 31.05                  | 103.34                         |                  |                     |
| 2462.00        | 77.67                      | 100                       | 135                  |                           |   |                          | 3.34                    | 30.99                  | 112.00                         |                  |                     |
| 2462.00        |                            |                           |                      | 66.46                     | A |                          | 3.34                    | 30.99                  | 100.79                         |                  |                     |

### RADIATED EMISSIONS – Vertical Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 2412.00        | 73.00                      | 125                       | 90                   |                           |   |                          | 3.30                    | 31.24                  | 107.54                         |                  |                     |
| 2412.00        |                            |                           |                      | 62.68                     | A |                          | 3.30                    | 31.24                  | 97.22                          |                  |                     |
| 2437.00        | 72.00                      | 100                       | 135                  |                           |   |                          | 3.32                    | 31.20                  | 106.52                         |                  |                     |
| 2437.00        |                            |                           |                      | 61.73                     | A |                          | 3.32                    | 31.20                  | 96.25                          |                  |                     |
| 2462.00        | 73.50                      | 150                       | 90                   |                           |   |                          | 3.34                    | 31.16                  | 108.00                         |                  |                     |
| 2462.00        |                            |                           |                      | 62.92                     | A |                          | 3.34                    | 31.16                  | 97.42                          |                  |                     |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.

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## Spurious Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11g mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with Amphenol (Samsung Neon) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-12*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 66.57                          | 74.00            | -7.43               |
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 52.02                          | 54.00            | -1.98               |
| 2400.00        | 54.33                      | 125                       | 135                  |                           |                          | 3.29                    | 31.14                  | 88.76                          | 92.91            | -4.15               |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 67.50                          | 74.00            | -6.50               |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 49.79                          | 54.00            | -4.21               |

### RADIATED EMISSIONS – Vertical Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 61.20                          | 74.00            | -12.80              |
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 46.55                          | 54.00            | -7.45               |
| 2400.00        | 48.50                      | 125                       | 90                   |                           |                          | 3.29                    | 31.26                  | 83.05                          | 87.54            | -4.49               |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 63.50                          | 74.00            | -10.50              |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 46.42                          | 54.00            | -7.58               |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = F_m - \Delta m$$

Where

BE = Band Edge Field Strength

F<sub>m</sub> = Measured Fundamental (Peak or Average)

Δ<sub>m</sub> = Measured Conducted Band Edge Delta (Peak or Average)

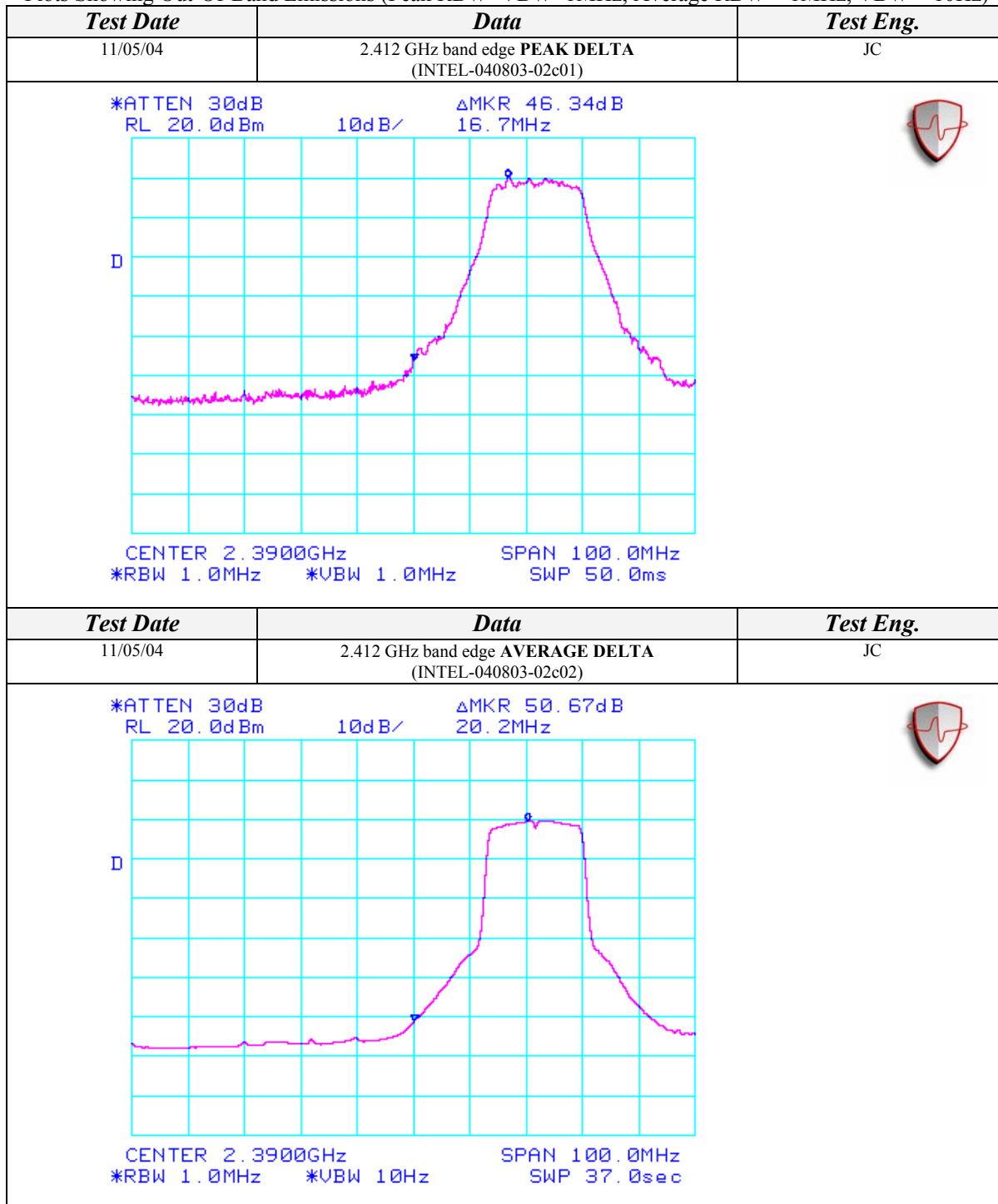
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



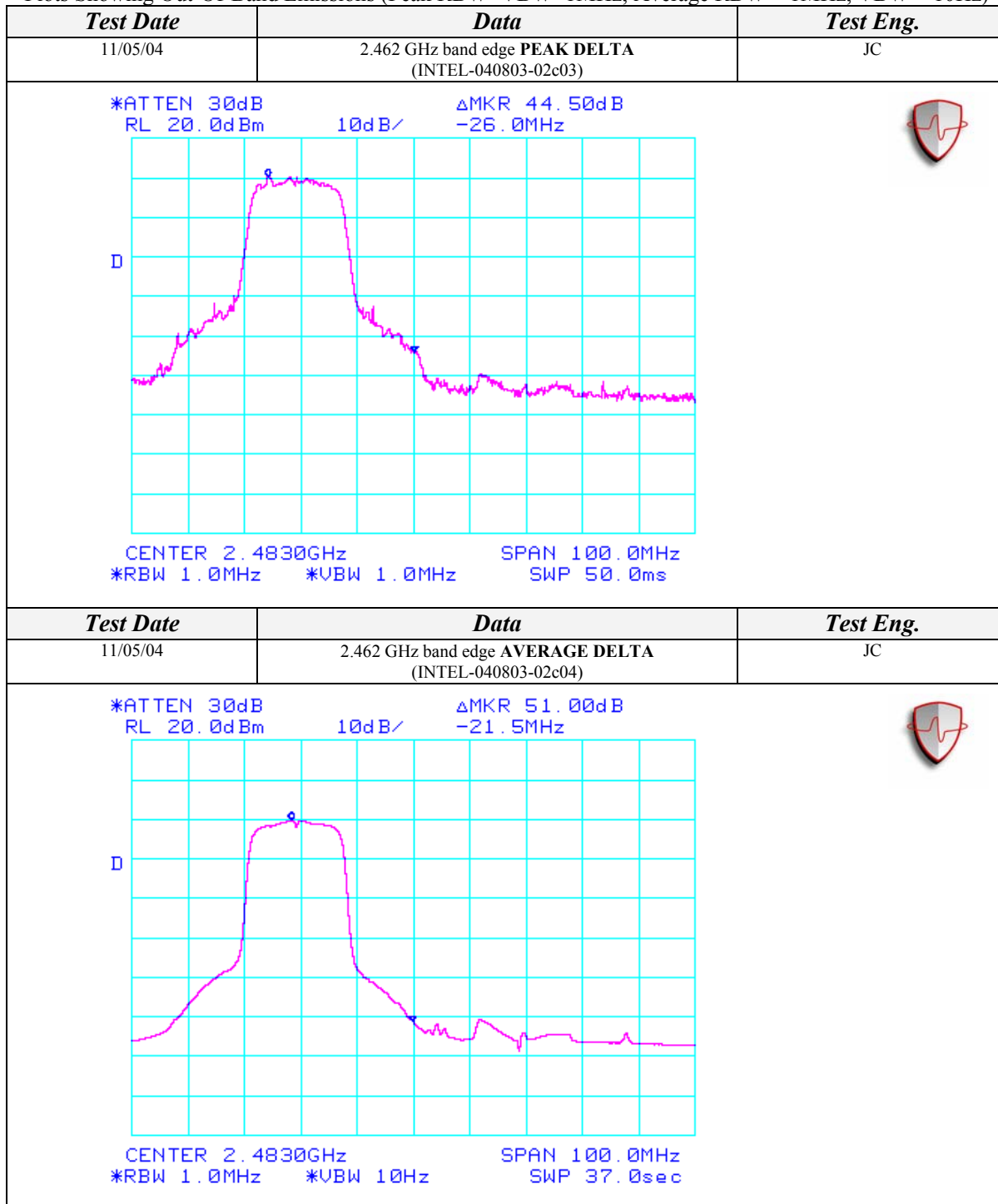
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11g mode (2412-2462 MHz)*  
*Channels 1, 6, & 11*  
**Continuous TX at MAIN Antenna port with Amphenol (Samsung Neon) Antennas**  
*Aegis Labs, Inc. File #: INTEL-041021-13*

| RADIATED EMISSIONS - Horizontal Antenna Polarization      |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
|-----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|---------------------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | 1 Meter<br>Distance<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2312.00                                                   | 33.67                      | 100                       | 135                  |                           |   | 9.54                                  | 3.23                    | 31.35                  | 58.71                          | 74.00            | -15.29              |
| 2312.00                                                   |                            |                           |                      | 23.71                     | A | 9.54                                  | 3.23                    | 31.35                  | 48.75                          | 54.00            | -5.25               |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2336.00                                                   | 32.83                      | 100                       | 135                  |                           |   | 9.54                                  | 3.25                    | 31.29                  | 57.83                          | 74.00            | -16.17              |
| 2336.00                                                   |                            |                           |                      | 22.34                     | A | 9.54                                  | 3.25                    | 31.29                  | 47.34                          | 54.00            | -6.66               |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2358.66                                                   | 32.17                      | 100                       | 90                   |                           |   | 9.54                                  | 3.26                    | 31.24                  | 57.13                          | 74.00            | -16.87              |
| 2358.66                                                   |                            |                           |                      | 19.50                     | A | 9.54                                  | 3.26                    | 31.24                  | 44.46                          | 54.00            | -9.54               |
| RADIATED EMISSIONS - Vertical Antenna Polarization        |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | 1 Meter<br>Distance<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2312.00                                                   | 32.67                      | 100                       | 225                  |                           |   | 9.54                                  | 3.23                    | 31.40                  | 57.76                          | 74.00            | -16.24              |
| 2312.00                                                   |                            |                           |                      | 20.68                     | A | 9.54                                  | 3.23                    | 31.40                  | 45.77                          | 54.00            | -8.23               |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2336.00                                                   | 32.83                      | 100                       | 135                  |                           |   | 9.54                                  | 3.25                    | 31.36                  | 57.90                          | 74.00            | -16.10              |
| 2336.00                                                   |                            |                           |                      | 21.65                     | A | 9.54                                  | 3.25                    | 31.36                  | 46.72                          | 54.00            | -7.28               |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2358.68                                                   | 32.33                      | 100                       | 135                  |                           |   | 9.54                                  | 3.26                    | 31.33                  | 57.38                          | 74.00            | -16.62              |
| 2358.68                                                   |                            |                           |                      | 16.97                     | A | 9.54                                  | 3.26                    | 31.33                  | 42.02                          | 54.00            | -11.98              |

NOTE: These spurious emissions measurements were taken without a preamp at a distance on 1 meter to avoid saturating the preamp and analyzer because the signals were close to the fundamental frequency. The readings were extrapolated to 1 meter.

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## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11g mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with Amphenol (Samsung Neon) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-14*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                          | 51.67                      | 100                       | 135                  |                           |   | 43.07                    | 3.89                    | 30.24                  | 42.73                          | 92.91            | -50.18              |
| 4824.20                                                          | 58.33                      | 150                       | 225                  |                           |   | 43.27                    | 4.73                    | 34.53                  | 54.33                          | 74.00            | -19.67              |
| 4824.20                                                          |                            |                           |                      | 45.34                     | A | 43.27                    | 4.73                    | 34.53                  | 41.34                          | 54.00            | -12.66              |
| 6432.05                                                          | 57.57                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 56.13                          | 92.91            | -36.78              |
| 9647.97                                                          | 49.83                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.88                  | 52.44                          | 92.91            | -40.47              |
| 12864.02                                                         | 50.50                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 43.86                  | 58.49                          | 92.91            | -34.42              |
| <b>EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.37                                                          | 50.33                      | 100                       | 135                  |                           |   | 43.08                    | 3.91                    | 30.25                  | 41.40                          | 93.54            | -52.14              |
| 4874.06                                                          | 49.67                      | 100                       | 180                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 45.87                          | 74.00            | -28.13              |
| 4874.06                                                          |                            |                           |                      | 35.71                     | A | 43.29                    | 4.77                    | 34.72                  | 31.91                          | 54.00            | -22.09              |
| 6498.69                                                          | 58.67                      | 125                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.90                  | 57.50                          | 93.54            | -36.04              |
| 9748.09                                                          | 50.00                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.00                  | 52.73                          | 93.54            | -40.81              |
| 12997.35                                                         | 51.17                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.29                  | 59.65                          | 93.54            | -33.89              |
| <b>EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.68                                                          | 51.33                      | 100                       | 225                  |                           |   | 43.10                    | 3.91                    | 30.26                  | 42.40                          | 92.00            | -49.60              |
| 4923.82                                                          | 48.33                      | 100                       | 135                  |                           |   | 43.30                    | 4.81                    | 34.91                  | 44.74                          | 74.00            | -29.26              |
| 4923.82                                                          |                            |                           |                      | 35.45                     | A | 43.30                    | 4.81                    | 34.91                  | 31.86                          | 54.00            | -22.14              |
| 6565.42                                                          | 58.33                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.32                  | 57.64                          | 92.00            | -34.36              |
| 9847.97                                                          | 50.00                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.12                  | 52.86                          | 92.00            | -39.14              |
| 13130.70                                                         | 49.83                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.25                  | 58.45                          | 92.00            | -33.55              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization               |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| <b>EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.01                                                          | 50.67                      | 100                       | 180                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 41.93                          | 87.54            | -45.61              |
| 4823.97                                                          | 56.83                      | 100                       | 90                   |                           |   | 43.27                    | 4.73                    | 34.53                  | 52.82                          | 74.00            | -21.18              |
| 4823.97                                                          |                            |                           |                      | 42.89                     | A | 43.27                    | 4.73                    | 34.53                  | 38.88                          | 54.00            | -15.12              |
| 6432.01                                                          | 56.33                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 54.89                          | 87.54            | -32.65              |
| 9648.03                                                          | 49.50                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 52.20                          | 87.54            | -35.34              |
| 12863.98                                                         | 50.33                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 44.23                  | 58.68                          | 87.54            | -28.86              |
| <b>EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.35                                                          | 50.50                      | 100                       | 135                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 41.77                          | 86.52            | -44.75              |
| 4874.03                                                          | 48.00                      | 100                       | 135                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 44.20                          | 74.00            | -29.80              |
| 4874.03                                                          |                            |                           |                      | 34.91                     | A | 43.29                    | 4.77                    | 34.72                  | 31.11                          | 54.00            | -22.89              |
| 6498.67                                                          | 57.33                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.89                  | 56.16                          | 86.52            | -30.36              |
| 9748.00                                                          | 50.33                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.15                  | 53.21                          | 86.52            | -33.31              |
| 12997.30                                                         | 50.33                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.49                  | 59.01                          | 86.52            | -27.51              |
| <b>EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.65                                                          | 49.33                      | 100                       | 180                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 40.60                          | 88.00            | -47.40              |
| 4924.01                                                          | 49.67                      | 100                       | 135                  |                           |   | 43.30                    | 4.81                    | 34.91                  | 46.08                          | 74.00            | -27.92              |
| 4924.01                                                          |                            |                           |                      | 35.72                     | A | 43.30                    | 4.81                    | 34.91                  | 32.13                          | 54.00            | -21.87              |
| 6565.34                                                          | 53.67                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.38                  | 53.04                          | 88.00            | -34.96              |
| 9848.02                                                          | 50.67                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.33                  | 53.74                          | 88.00            | -34.26              |
| 13130.62                                                         | 49.33                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.45                  | 58.15                          | 88.00            | -29.85              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11g mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous RX at MAIN Antenna port with Amphenol (Samsung Neon) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-14*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                  | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|-----------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3216.00                                                         | 51.00                      | 100                       | 225                  |                           |                          | 43.07                   | 3.89                   | 30.24                          | 42.06            | 80.00 -37.94        |
| 3216.00                                                         |                            |                           |                      | 43.63                     | A                        | 43.07                   | 3.89                   | 30.24                          | 34.69            | 60.00 -25.31        |
| 6431.98                                                         | 58.67                      | 100                       | 135                  |                           |                          | 43.82                   | 5.73                   | 36.64                          | 57.23            | 80.00 -22.77        |
| 6431.98                                                         |                            |                           |                      | 55.91                     | A                        | 43.82                   | 5.73                   | 36.64                          | 54.47            | 60.00 -5.53         |
| 9648.00                                                         | 51.00                      | 100                       | 135                  |                           |                          | 43.22                   | 6.95                   | 38.88                          | 53.61            | 80.00 -26.39        |
| 9648.00                                                         |                            |                           |                      | 38.09                     | A                        | 43.22                   | 6.95                   | 38.88                          | 40.70            | 60.00 -19.30        |
| <b>EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3249.32                                                         | 51.67                      | 100                       | 225                  |                           |                          | 43.08                   | 3.91                   | 30.25                          | 42.74            | 80.00 -37.26        |
| 3249.32                                                         |                            |                           |                      | 42.96                     | A                        | 43.08                   | 3.91                   | 30.25                          | 34.03            | 60.00 -25.97        |
| 6498.67                                                         | 60.50                      | 100                       | 135                  |                           |                          | 43.84                   | 5.78                   | 36.89                          | 59.33            | 80.00 -20.67        |
| 6498.67                                                         |                            |                           |                      | 57.14                     | A                        | 43.84                   | 5.78                   | 36.89                          | 55.97            | 60.00 -4.03         |
| 9748.03                                                         | 50.33                      | 100                       | 135                  |                           |                          | 43.25                   | 6.99                   | 39.00                          | 53.06            | 80.00 -26.94        |
| 9748.03                                                         |                            |                           |                      | 38.52                     | A                        | 43.25                   | 6.99                   | 39.00                          | 41.25            | 60.00 -18.75        |
| <b>EUT in Continuous Receive Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3282.66                                                         | 51.50                      | 100                       | 225                  |                           |                          | 43.10                   | 3.91                   | 30.26                          | 42.57            | 80.00 -37.43        |
| 3282.66                                                         |                            |                           |                      | 43.05                     | A                        | 43.10                   | 3.91                   | 30.26                          | 34.12            | 60.00 -25.88        |
| 6565.32                                                         | 57.50                      | 100                       | 135                  |                           |                          | 43.84                   | 5.83                   | 37.32                          | 56.81            | 80.00 -23.19        |
| 6565.32                                                         |                            |                           |                      | 53.82                     | A                        | 43.84                   | 5.83                   | 37.32                          | 53.13            | 60.00 -6.87         |
| 9848.00                                                         | 51.00                      | 100                       | 135                  |                           |                          | 43.29                   | 7.03                   | 39.12                          | 53.86            | 80.00 -26.14        |
| 9848.00                                                         |                            |                           |                      | 39.18                     | A                        | 43.29                   | 7.03                   | 39.12                          | 42.04            | 60.00 -17.96        |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization              |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|-----------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                                  | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| <b>EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                         | 50.17                      | 100                       | 180                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 41.43                          | 80.00            | -38.57              |
| 3216.00                                                         |                            |                           |                      | 41.81                     | A | 43.07                    | 3.89                    | 30.44                  | 33.07                          | 60.00            | -26.93              |
| 6432.01                                                         | 57.67                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 56.23                          | 80.00            | -23.77              |
| 6432.01                                                         |                            |                           |                      | 54.10                     | A | 43.82                    | 5.73                    | 36.64                  | 52.66                          | 60.00            | -7.34               |
| 9648.00                                                         | 50.17                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 52.87                          | 80.00            | -27.13              |
| 9648.00                                                         |                            |                           |                      | 36.69                     | A | 43.22                    | 6.95                    | 38.97                  | 39.39                          | 60.00            | -20.61              |
| <b>EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.33                                                         | 51.00                      | 100                       | 180                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 42.27                          | 80.00            | -37.73              |
| 3249.33                                                         |                            |                           |                      | 42.06                     | A | 43.08                    | 3.91                    | 30.45                  | 33.33                          | 60.00            | -26.67              |
| 6498.69                                                         | 56.83                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.90                  | 55.66                          | 80.00            | -24.34              |
| 6498.69                                                         |                            |                           |                      | 52.87                     | A | 43.84                    | 5.78                    | 36.90                  | 51.70                          | 60.00            | -8.30               |
| 9748.03                                                         | 50.17                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.15                  | 53.05                          | 80.00            | -26.95              |
| 9748.03                                                         |                            |                           |                      | 38.28                     | A | 43.25                    | 6.99                    | 39.15                  | 41.16                          | 60.00            | -18.84              |
| <b>EUT in Continuous Receive Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.67                                                         | 50.83                      | 100                       | 180                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 42.10                          | 80.00            | -37.90              |
| 3282.67                                                         |                            |                           |                      | 40.98                     | A | 43.10                    | 3.91                    | 30.46                  | 32.25                          | 60.00            | -27.75              |
| 6565.34                                                         | 53.17                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.38                  | 52.54                          | 80.00            | -27.46              |
| 6565.34                                                         |                            |                           |                      | 47.15                     | A | 43.84                    | 5.83                    | 37.38                  | 46.52                          | 60.00            | -13.48              |
| 9848.04                                                         | 51.17                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.33                  | 54.24                          | 80.00            | -25.76              |
| 9848.04                                                         |                            |                           |                      | 38.40                     | A | 43.29                    | 7.03                    | 39.33                  | 41.47                          | 60.00            | -18.53              |

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**AEGIS LABS INC.**

***Hitachi (Samsung Neon)***  
***TEST DATA***

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

|                       |                                                                                                                                                        |                        |              |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                                                      | <b>DATE:</b>           | 10/25/04     |
| <b>EUT:</b>           | Intel PRO/Wireless 2915ABG Network Connection                                                                                                          | <b>PROJECT NUMBER:</b> | INTEL-041021 |
| <b>MODEL NUMBER:</b>  | WM3B2915ABG                                                                                                                                            | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 344F96244ABC51962012                                                                                                                                   | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in the Hewlett Packard host computer's mini PCI slot in <b>802.11a (5745-5825 MHz) mode with the Hitachi (Samsung Neon) antennas.</b> | <b>TEMPERATURE:</b>    | 20 C         |
|                       |                                                                                                                                                        | <b>HUMIDITY:</b>       | 53% RH       |
|                       |                                                                                                                                                        | <b>TIME:</b>           | 2:00 PM      |

|                     |                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard:</b>    | FCC CFR 47, Part 15.247(c)                                                                                                                                                                         |
| <b>Description:</b> | Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc. |
| <b>Results:</b>     | Passes (See Data Sheets)                                                                                                                                                                           |

| Unwanted Spurious Emissions Limits |                       |                                                                |                                                                      |
|------------------------------------|-----------------------|----------------------------------------------------------------|----------------------------------------------------------------------|
| Frequency (MHz)                    | Field Strength (uV/m) | Field Strength (dBuV/m)<br>(Emissions in the restricted bands) | Field Strength (dBm/MHz)<br>(Emissions outside the restricted bands) |
| Above 960                          | 500                   | 54.00 (Average)<br>74.00 (Peak)                                | < -20 dBc                                                            |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11a mode (5745-5825 MHz)  
Channels 149, 157, & 169  
Continuous TX at MAIN Antenna port with Hitachi (Samsung Neon) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-09*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 5745.00        | 63.67                      | 100                       | 135                  |                           |   |                          | 5.25                    | 34.85                  | 103.76                         |                  |                     |
| 5745.00        |                            |                           |                      | 53.82                     | A |                          | 5.25                    | 34.85                  | 93.91                          |                  |                     |
| 5785.00        | 63.67                      | 100                       | 135                  |                           |   |                          | 5.27                    | 34.87                  | 103.81                         |                  |                     |
| 5785.00        |                            |                           |                      | 54.19                     | A |                          | 5.27                    | 34.87                  | 94.33                          |                  |                     |
| 5825.00        | 64.00                      | 100                       | 135                  |                           |   |                          | 5.30                    | 34.90                  | 104.20                         |                  |                     |
| 5825.00        |                            |                           |                      | 54.04                     | A |                          | 5.30                    | 34.90                  | 94.24                          |                  |                     |

### RADIATED EMISSIONS – Vertical Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 5745.00        | 63.83                      | 100                       | 180                  |                           |   |                          | 5.25                    | 34.85                  | 103.92                         |                  |                     |
| 5745.00        |                            |                           |                      | 54.63                     | A |                          | 5.25                    | 34.85                  | 94.72                          |                  |                     |
| 5785.00        | 63.67                      | 100                       | 180                  |                           |   |                          | 5.27                    | 34.87                  | 103.81                         |                  |                     |
| 5785.00        |                            |                           |                      | 54.20                     | A |                          | 5.27                    | 34.87                  | 94.34                          |                  |                     |
| 5825.00        | 66.00                      | 125                       | 180                  |                           |   |                          | 5.30                    | 34.90                  | 106.20                         |                  |                     |
| 5825.00        |                            |                           |                      | 55.03                     | A |                          | 5.30                    | 34.90                  | 95.23                          |                  |                     |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

**Band Edge Field Strength Measurements in 802.11a mode (5745-5825 MHz)**

**Channels 149, 157, & 169**

**Continuous TX at MAIN Antenna port with Hitachi (Samsung Neon) Antennas**

**Aegis Labs, Inc. File #: INTEL-041021-09**

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 5725.00        | 35.50                      | 100                       | 135                  |                           |                          | 5.23                    | 34.84                  | 75.57                          | 83.76            | -8.20               |
| 5850.00        | 29.50                      | 100                       | 135                  |                           |                          | 5.32                    | 34.91                  | 69.73                          | 84.20            | -14.47              |

### RADIATED EMISSIONS – Vertical Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 5725.00        | 34.00                      | 100                       | 180                  |                           |                          | 5.23                    | 34.84                  | 74.07                          | 83.92            | -9.86               |
| 5850.00        | 30.67                      | 125                       | 180                  |                           |                          | 5.32                    | 34.91                  | 70.90                          | 86.20            | -15.30              |

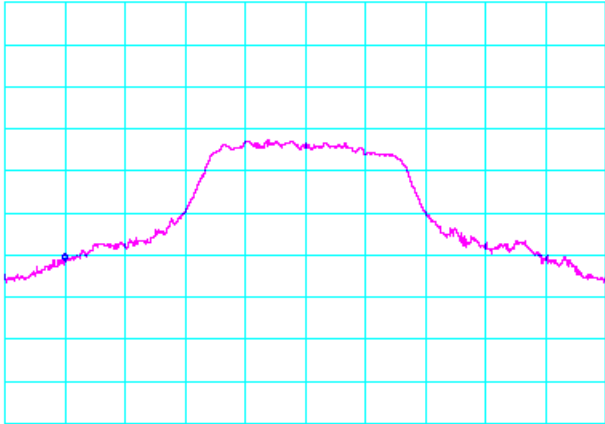
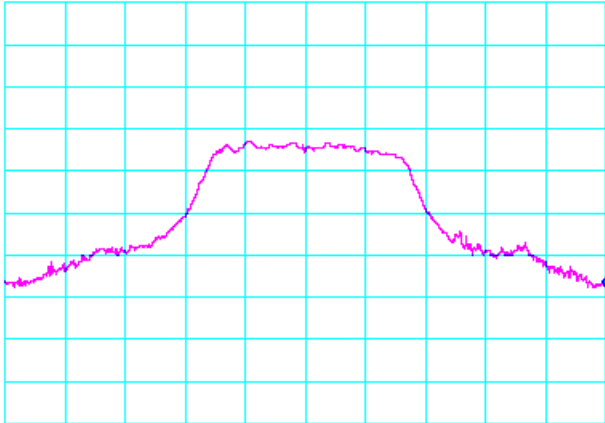
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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)

| Test Date                                                                                                                                                                                                                                                                                 | Data                                                                                  | Test Eng. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|-----------|
| 10/25/04                                                                                                                                                                                                                                                                                  | 5.745 GHz band edge <b>PEAK (Horizontal Antenna Polarity)</b><br>(INTEL-041021-09a05) | JC        |
| <div><div><div>*ATTEN 0dB<br/>RL 97.0dBμV<br/>10dB/</div><div>MR 35.50dBμV<br/>5.72500GHz</div></div><div>CENTER 5.74500GHz<br/>*RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms</div><div>SPAN 50.00MHz</div></div>   |                                                                                       |           |
| Test Date                                                                                                                                                                                                                                                                                 | Data                                                                                  | Test Eng. |
| 10/25/04                                                                                                                                                                                                                                                                                  | 5.825 GHz band edge <b>PEAK (Horizontal Antenna Polarity)</b><br>(INTEL-041021-09a06) | JC        |
| <div><div><div>*ATTEN 0dB<br/>RL 97.0dBμV<br/>10dB/</div><div>MR 29.50dBμV<br/>5.85000GHz</div></div><div>CENTER 5.82500GHz<br/>*RBW 1.0MHz *VBW 1.0MHz SWP 50.0ms</div><div>SPAN 50.00MHz</div></div> |                                                                                       |           |

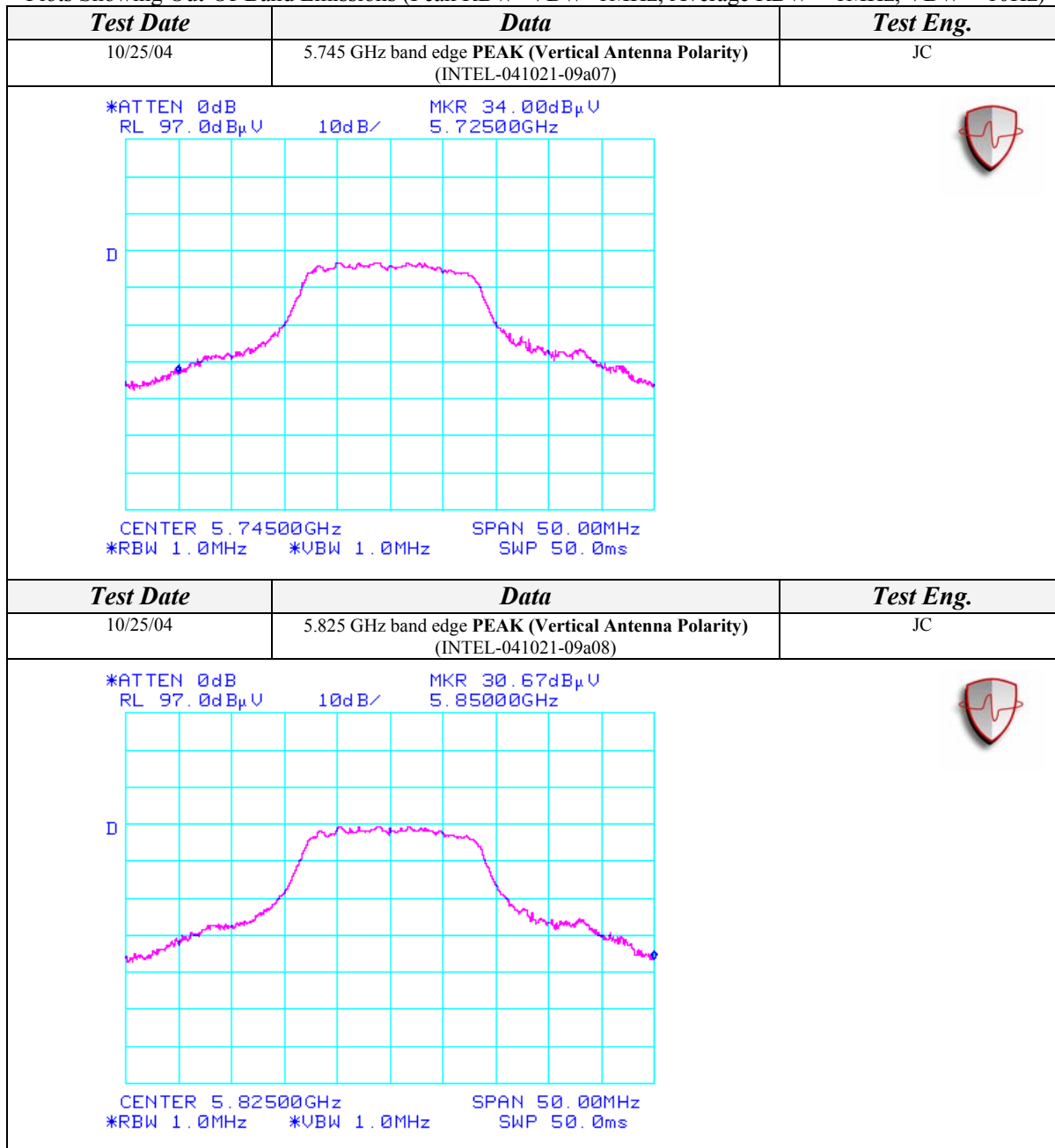
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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5745-5825 MHz)  
Channels 149, 157, & 169  
Continuous TX at MAIN Antenna port with Hitachi (Samsung Neon) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-11*

| RADIATED EMISSIONS - Horizontal Antenna Polarization       |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                             | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 149 (5.745 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3830.00                                                    | 63.00                      | 100                       | 225                  |                           |   | 43.17                    | 4.18                    | 31.16                  | 55.17                          | 74.00            | -18.83              |
| 3830.00                                                    |                            |                           |                      | 61.15                     | A | 43.17                    | 4.18                    | 31.16                  | 53.32                          | 54.00            | -0.68               |
| 7660.00                                                    | 55.33                      | 100                       | 135                  |                           |   | 43.62                    | 6.27                    | 40.05                  | 58.03                          | 74.00            | -15.97              |
| 7660.00                                                    |                            |                           |                      | 49.39                     | A | 43.62                    | 6.27                    | 40.05                  | 52.09                          | 54.00            | -1.91               |
| 11490.00                                                   | 52.00                      | 100                       | 135                  |                           |   | 43.50                    | 7.64                    | 41.18                  | 57.32                          | 74.00            | -16.68              |
| 11490.00                                                   |                            |                           |                      | 42.61                     | A | 43.50                    | 7.64                    | 41.18                  | 47.93                          | 54.00            | -6.07               |
| 15319.89                                                   | 49.17                      | 100                       | 135                  |                           |   | 43.39                    | 8.80                    | 41.49                  | 56.07                          | 83.76            | -27.69              |
| EUT in Continuous Transmit Mode on Channel 157 (5.785 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3856.66                                                    | 63.17                      | 100                       | 135                  |                           |   | 43.17                    | 4.21                    | 31.23                  | 55.43                          | 74.00            | -18.57              |
| 3856.66                                                    |                            |                           |                      | 61.34                     | A | 43.17                    | 4.21                    | 31.23                  | 53.60                          | 54.00            | -0.40               |
| 7713.33                                                    | 53.17                      | 100                       | 135                  |                           |   | 43.60                    | 6.29                    | 40.20                  | 56.06                          | 74.00            | -17.94              |
| 7713.33                                                    |                            |                           |                      | 45.41                     | A | 43.60                    | 6.29                    | 40.20                  | 48.30                          | 54.00            | -5.70               |
| 11569.98                                                   | 50.83                      | 100                       | 135                  |                           |   | 43.48                    | 7.66                    | 41.38                  | 56.40                          | 74.00            | -17.60              |
| 11569.98                                                   |                            |                           |                      | 40.22                     | A | 43.48                    | 7.66                    | 41.38                  | 45.79                          | 54.00            | -8.21               |
| 15426.58                                                   | 49.50                      | 100                       | 135                  |                           |   | 43.35                    | 8.80                    | 41.56                  | 56.51                          | 74.00            | -17.49              |
| 15426.58                                                   |                            |                           |                      | 37.96                     | A | 43.35                    | 8.80                    | 41.56                  | 44.97                          | 54.00            | -9.03               |
| EUT in Continuous Transmit Mode on Channel 165 (5.825 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3883.34                                                    | 63.50                      | 100                       | 225                  |                           |   | 43.17                    | 4.23                    | 31.30                  | 55.85                          | 74.00            | -18.15              |
| 3883.34                                                    |                            |                           |                      | 61.50                     | A | 43.17                    | 4.23                    | 31.30                  | 53.85                          | 54.00            | -0.15               |
| 7766.66                                                    | 54.50                      | 100                       | 135                  |                           |   | 43.58                    | 6.32                    | 40.35                  | 57.58                          | 84.20            | -26.62              |
| 11650.00                                                   | 51.33                      | 100                       | 135                  |                           |   | 43.45                    | 7.69                    | 41.59                  | 57.16                          | 74.00            | -16.84              |
| 11650.00                                                   |                            |                           |                      | 40.03                     | A | 43.45                    | 7.69                    | 41.59                  | 45.86                          | 54.00            | -8.14               |
| 15533.23                                                   | 50.00                      | 100                       | 135                  |                           |   | 43.35                    | 8.82                    | 41.71                  | 57.18                          | 74.00            | -16.82              |
| 15533.23                                                   |                            |                           |                      | 38.36                     | A | 43.35                    | 8.82                    | 41.71                  | 45.54                          | 54.00            | -8.46               |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization         |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                             | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 149 (5.745 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3830.00                                                    | 58.00                      | 100                       | 225                  |                           |   | 43.17                    | 4.18                    | 31.09                  | 50.11                          | 74.00            | -23.89              |
| 3830.00                                                    |                            |                           |                      | 54.69                     | A | 43.17                    | 4.18                    | 31.09                  | 46.80                          | 54.00            | -7.20               |
| 7660.00                                                    | 53.17                      | 100                       | 225                  |                           |   | 43.62                    | 6.27                    | 40.11                  | 55.94                          | 74.00            | -18.06              |
| 7660.00                                                    |                            |                           |                      | 44.86                     | A | 43.62                    | 6.27                    | 40.11                  | 47.63                          | 54.00            | -6.37               |
| 11490.00                                                   | 51.83                      | 100                       | 135                  |                           |   | 43.50                    | 7.64                    | 41.66                  | 57.63                          | 74.00            | -16.37              |
| 11490.00                                                   |                            |                           |                      | 40.71                     | A | 43.50                    | 7.64                    | 41.66                  | 46.51                          | 54.00            | -7.49               |
| EUT in Continuous Transmit Mode on Channel 157 (5.785 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3856.66                                                    | 62.83                      | 125                       | 135                  |                           |   | 43.17                    | 4.21                    | 31.14                  | 55.01                          | 74.00            | -18.99              |
| 3856.66                                                    |                            |                           |                      | 60.82                     | A | 43.17                    | 4.21                    | 31.14                  | 53.00                          | 54.00            | -1.00               |
| 7713.33                                                    | 53.67                      | 100                       | 135                  |                           |   | 43.60                    | 6.29                    | 40.28                  | 56.65                          | 74.00            | -17.35              |
| 7713.33                                                    |                            |                           |                      | 46.71                     | A | 43.60                    | 6.29                    | 40.28                  | 49.69                          | 54.00            | -4.31               |
| 11569.98                                                   | 50.50                      | 100                       | 135                  |                           |   | 43.48                    | 7.66                    | 41.81                  | 56.50                          | 74.00            | -17.50              |
| 11569.98                                                   |                            |                           |                      | 39.68                     | A | 43.48                    | 7.66                    | 41.81                  | 45.68                          | 54.00            | -8.32               |
| EUT in Continuous Transmit Mode on Channel 165 (5.825 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3883.33                                                    | 62.83                      | 100                       | 135                  |                           |   | 43.17                    | 4.23                    | 31.19                  | 55.08                          | 74.00            | -18.92              |
| 3883.33                                                    |                            |                           |                      | 60.89                     | A | 43.17                    | 4.23                    | 31.19                  | 53.14                          | 54.00            | -0.86               |
| 7766.66                                                    | 54.67                      | 100                       | 135                  |                           |   | 43.58                    | 6.32                    | 40.45                  | 57.86                          | 86.20            | -28.34              |
| 11650.00                                                   | 50.83                      | 100                       | 135                  |                           |   | 43.45                    | 7.69                    | 41.94                  | 57.01                          | 74.00            | -16.99              |
| 11650.00                                                   |                            |                           |                      | 40.71                     | A | 43.45                    | 7.69                    | 41.94                  | 46.89                          | 54.00            | -7.11               |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11a mode (5745-5825 MHz)  
Channels 149, 157, & 169  
Continuous RX at MAIN Antenna port with Hitachi (Samsung Neon) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-11*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Receive Mode on Channel 149 (5.745 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3830.00                                                          | 50.50                      | 100                       | 180                  |                           |   | 43.17                    | 4.18                    | 31.16                  | 42.67                          | 80.00            | -37.33              |
| 3830.00                                                          |                            |                           |                      | 41.75                     | A | 43.17                    | 4.18                    | 31.16                  | 33.92                          | 60.00            | -26.08              |
| 7660.00                                                          | 54.33                      | 100                       | 135                  |                           |   | 43.62                    | 6.27                    | 40.05                  | 57.03                          | 80.00            | -22.97              |
| 7660.00                                                          |                            |                           |                      | 48.34                     | A | 43.62                    | 6.27                    | 40.05                  | 51.04                          | 60.00            | -8.96               |
| 11489.92                                                         | 51.50                      | 100                       | 135                  |                           |   | 43.50                    | 7.64                    | 41.18                  | 56.82                          | 80.00            | -23.18              |
| 11489.92                                                         |                            |                           |                      | 41.39                     | A | 43.50                    | 7.64                    | 41.18                  | 46.71                          | 60.00            | -13.29              |
| <b>EUT in Continuous Receive Mode on Channel 157 (5.785 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3856.62                                                          | 51.33                      | 100                       | 135                  |                           |   | 43.17                    | 4.21                    | 31.23                  | 43.59                          | 80.00            | -36.41              |
| 3856.62                                                          |                            |                           |                      | 42.29                     | A | 43.17                    | 4.21                    | 31.23                  | 34.55                          | 60.00            | -25.45              |
| 7713.32                                                          | 54.50                      | 100                       | 135                  |                           |   | 43.60                    | 6.29                    | 40.20                  | 57.39                          | 80.00            | -22.61              |
| 7713.32                                                          |                            |                           |                      | 48.62                     | A | 43.60                    | 6.29                    | 40.20                  | 51.51                          | 60.00            | -8.49               |
| 11569.92                                                         | 49.83                      | 100                       | 135                  |                           |   | 43.48                    | 7.66                    | 41.38                  | 55.40                          | 80.00            | -24.60              |
| 11569.92                                                         |                            |                           |                      | 39.41                     | A | 43.48                    | 7.66                    | 41.38                  | 44.98                          | 60.00            | -15.02              |
| <b>EUT in Continuous Receive Mode on Channel 165 (5.825 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3883.34                                                          | 51.83                      | 100                       | 135                  |                           |   | 43.17                    | 4.23                    | 31.30                  | 44.18                          | 80.00            | -35.82              |
| 3883.34                                                          |                            |                           |                      | 45.28                     | A | 43.17                    | 4.23                    | 31.30                  | 37.63                          | 60.00            | -22.37              |
| 7766.62                                                          | 55.50                      | 100                       | 135                  |                           |   | 43.58                    | 6.32                    | 40.35                  | 58.58                          | 80.00            | -21.42              |
| 7766.62                                                          |                            |                           |                      | 49.59                     | A | 43.58                    | 6.32                    | 40.35                  | 52.67                          | 60.00            | -7.33               |
| 11649.94                                                         | 49.67                      | 100                       | 135                  |                           |   | 43.45                    | 7.69                    | 41.59                  | 55.50                          | 80.00            | -24.50              |
| 11649.94                                                         |                            |                           |                      | 38.86                     | A | 43.45                    | 7.69                    | 41.59                  | 44.69                          | 60.00            | -15.31              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization        |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|-----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Receive Mode on Channel 149 (5.745 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3830.00                                                   | 51.50                      | 100                       | 135                  |                           |   | 43.17                    | 4.18                    | 31.16                  | 43.67                          | 80.00            | -36.33              |
| 3830.00                                                   |                            |                           |                      | 43.40                     | A | 43.17                    | 4.18                    | 31.16                  | 35.57                          | 60.00            | -24.43              |
| 7660.00                                                   | 51.33                      | 100                       | 135                  |                           |   | 43.62                    | 6.27                    | 40.05                  | 54.03                          | 80.00            | -25.97              |
| 7660.00                                                   |                            |                           |                      | 40.81                     | A | 43.62                    | 6.27                    | 40.05                  | 43.51                          | 60.00            | -16.49              |
| 11489.92                                                  | 50.67                      | 100                       | 135                  |                           |   | 43.50                    | 7.64                    | 41.18                  | 55.99                          | 80.00            | -24.01              |
| 11489.92                                                  |                            |                           |                      | 39.45                     | A | 43.50                    | 7.64                    | 41.18                  | 44.77                          | 60.00            | -15.23              |
| EUT in Continuous Receive Mode on Channel 157 (5.785 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3856.65                                                   | 51.17                      | 100                       | 135                  |                           |   | 43.17                    | 4.21                    | 31.14                  | 43.35                          | 80.00            | -36.65              |
| 3856.65                                                   |                            |                           |                      | 42.89                     | A | 43.17                    | 4.21                    | 31.14                  | 35.07                          | 60.00            | -24.93              |
| 7713.29                                                   | 51.83                      | 100                       | 135                  |                           |   | 43.60                    | 6.29                    | 40.28                  | 54.81                          | 80.00            | -25.19              |
| 7713.29                                                   |                            |                           |                      | 42.26                     | A | 43.60                    | 6.29                    | 40.28                  | 45.24                          | 60.00            | -14.76              |
| 11569.91                                                  | 50.00                      | 100                       | 135                  |                           |   | 43.48                    | 7.66                    | 41.81                  | 56.00                          | 80.00            | -24.00              |
| 11569.91                                                  |                            |                           |                      | 38.43                     | A | 43.48                    | 7.66                    | 41.81                  | 44.43                          | 60.00            | -15.57              |
| EUT in Continuous Receive Mode on Channel 165 (5.825 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3883.35                                                   | 51.50                      | 100                       | 135                  |                           |   | 43.17                    | 4.23                    | 31.19                  | 43.75                          | 80.00            | -36.25              |
| 3883.35                                                   |                            |                           |                      | 42.78                     | A | 43.17                    | 4.23                    | 31.19                  | 35.03                          | 60.00            | -24.97              |
| 7766.63                                                   | 51.33                      | 100                       | 135                  |                           |   | 43.58                    | 6.32                    | 40.45                  | 54.52                          | 80.00            | -25.48              |
| 7766.63                                                   |                            |                           |                      | 41.54                     | A | 43.58                    | 6.32                    | 40.45                  | 44.73                          | 60.00            | -15.27              |
| 11649.97                                                  | 51.00                      | 100                       | 135                  |                           |   | 43.45                    | 7.69                    | 41.94                  | 57.18                          | 80.00            | -22.82              |
| 11649.97                                                  |                            |                           |                      | 40.01                     | A | 43.45                    | 7.69                    | 41.94                  | 46.19                          | 60.00            | -13.81              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

|                       |                                                                                                                                                        |                        |              |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                                                      | <b>DATE:</b>           | 10/25/04     |
| <b>EUT:</b>           | Intel PRO/Wireless 2915ABG Network Connection                                                                                                          | <b>PROJECT NUMBER:</b> | INTEL-041021 |
| <b>MODEL NUMBER:</b>  | WM3B2915ABG                                                                                                                                            | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 344F96244ABC51962012                                                                                                                                   | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in the Hewlett Packard host computer's mini PCI slot in <b>802.11b (2412-2462 MHz) mode with the Hitachi (Samsung Neon) antennas.</b> | <b>TEMPERATURE:</b>    | 20 C         |
|                       |                                                                                                                                                        | <b>HUMIDITY:</b>       | 53% RH       |
|                       |                                                                                                                                                        | <b>TIME:</b>           | 2:00 PM      |

|                     |                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard:</b>    | FCC CFR 47, Part 15.247(c)                                                                                                                                                                         |
| <b>Description:</b> | Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc. |
| <b>Results:</b>     | Passes (See Data Sheets)                                                                                                                                                                           |

| Unwanted Spurious Emissions Limits |                       |                                                                |                                                                      |
|------------------------------------|-----------------------|----------------------------------------------------------------|----------------------------------------------------------------------|
| Frequency (MHz)                    | Field Strength (uV/m) | Field Strength (dBuV/m)<br>(Emissions in the restricted bands) | Field Strength (dBm/MHz)<br>(Emissions outside the restricted bands) |
| Above 960                          | 500                   | 54.00 (Average)<br>74.00 (Peak)                                | < -20 dBc                                                            |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

### *Fundamental Measurements in 802.11b mode (2412-2462 MHz)*

*Channels 1, 6, & 11*

***Continuous TX at MAIN Antenna port with Hitachi (Samsung Neon) Antennas***

*Aegis Labs, Inc. File #: INTEL-041021-09*

#### **RADIATED EMISSIONS - Horizontal Antenna Polarization**

| <i>Freq.<br/>(MHz)</i> | <i>Meter<br/>Reading<br/>(dBuV)</i> | <i>Antenna<br/>Height<br/>(cm)</i> | <i>Azimuth<br/>(degrees)</i> | <i>Quasi pk or<br/>AVG (dBuV)</i> |   | <i>Preamp<br/>Factor<br/>(dB)</i> | <i>Cable<br/>Factor<br/>(dB)</i> | <i>Ant.<br/>Factor<br/>(dB)</i> | <i>Corrected<br/>Reading<br/>(dBuV)</i> | <i>Limits<br/>(dBuV)</i> | <i>Diff (dB)<br/>+=FAIL</i> |
|------------------------|-------------------------------------|------------------------------------|------------------------------|-----------------------------------|---|-----------------------------------|----------------------------------|---------------------------------|-----------------------------------------|--------------------------|-----------------------------|
| 2412.00                | 71.50                               | 100                                | 135                          |                                   |   |                                   | 3.30                             | 31.11                           | 105.91                                  |                          |                             |
| 2412.00                |                                     |                                    |                              | 68.04                             | A |                                   | 3.30                             | 31.11                           | 102.45                                  |                          |                             |
| 2437.00                | 73.83                               | 125                                | 135                          |                                   |   |                                   | 3.32                             | 31.05                           | 108.20                                  |                          |                             |
| 2437.00                |                                     |                                    |                              | 70.59                             | A |                                   | 3.32                             | 31.05                           | 104.96                                  |                          |                             |
| 2462.00                | 73.17                               | 100                                | 135                          |                                   |   |                                   | 3.34                             | 30.99                           | 107.50                                  |                          |                             |
| 2462.00                |                                     |                                    |                              | 69.46                             | A |                                   | 3.34                             | 30.99                           | 103.79                                  |                          |                             |

#### **RADIATED EMISSIONS – Vertical Antenna Polarization**

| <i>Freq.<br/>(MHz)</i> | <i>Meter<br/>Reading<br/>(dBuV)</i> | <i>Antenna<br/>Height<br/>(cm)</i> | <i>Azimuth<br/>(degrees)</i> | <i>Quasi pk or<br/>AVG (dBuV)</i> |   | <i>Preamp<br/>Factor<br/>(dB)</i> | <i>Cable<br/>Factor<br/>(dB)</i> | <i>Ant.<br/>Factor<br/>(dB)</i> | <i>Corrected<br/>Reading<br/>(dBuV)</i> | <i>Limits<br/>(dBuV)</i> | <i>Diff (dB)<br/>+=FAIL</i> |
|------------------------|-------------------------------------|------------------------------------|------------------------------|-----------------------------------|---|-----------------------------------|----------------------------------|---------------------------------|-----------------------------------------|--------------------------|-----------------------------|
| 2412.00                | 66.50                               | 150                                | 135                          |                                   |   |                                   | 3.30                             | 31.24                           | 101.04                                  |                          |                             |
| 2412.00                |                                     |                                    |                              | 53.15                             | A |                                   | 3.30                             | 31.24                           | 87.69                                   |                          |                             |
| 2437.00                | 69.67                               | 125                                | 225                          |                                   |   |                                   | 3.32                             | 31.20                           | 104.19                                  |                          |                             |
| 2437.00                |                                     |                                    |                              | 66.49                             | A |                                   | 3.32                             | 31.20                           | 101.01                                  |                          |                             |
| 2462.00                | 68.50                               | 100                                | 225                          |                                   |   |                                   | 3.34                             | 31.16                           | 103.00                                  |                          |                             |
| 2462.00                |                                     |                                    |                              | 64.99                             | A |                                   | 3.34                             | 31.16                           | 99.49                                   |                          |                             |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.

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## Spurious Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11b mode (2412-2462 MHz)*  
*Channels 1, 6, & 11*  
**Continuous TX at MAIN Antenna port with Hitachi (Samsung Neon) Antennas**  
*Aegis Labs, Inc. File #: INTEL-041021-09*

**RADIATED EMISSIONS - Horizontal Antenna Polarization**

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamplifier<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 2390.00        |                            |                           |                      |                           |                                |                         |                        | 51.74                          | 74.00            | -22.26              |
| 2390.00        |                            |                           |                      |                           |                                |                         |                        | 40.11                          | 54.00            | -13.89              |
| 2359.80        |                            |                           |                      |                           |                                |                         |                        | 54.08                          | 74.00            | -19.92              |
| 2359.80        |                            |                           |                      |                           |                                |                         |                        | 41.11                          | 54.00            | -12.89              |
| 2400.00        | 39.00                      | 100                       | 135                  |                           |                                | 3.29                    | 31.14                  | 73.43                          | 85.91            | -12.48              |
| 2483.50        |                            |                           |                      |                           |                                |                         |                        | 53.00                          | 74.00            | -21.00              |
| 2483.50        |                            |                           |                      |                           |                                |                         |                        | 41.46                          | 54.00            | -12.54              |
| 2520.70        |                            |                           |                      |                           |                                |                         |                        | 53.84                          | 74.00            | -20.16              |
| 2520.70        |                            |                           |                      |                           |                                |                         |                        | 42.29                          | 54.00            | -11.71              |

**RADIATED EMISSIONS – Vertical Antenna Polarization**

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamplifier<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 2390.00        |                            |                           |                      |                           |                                |                         |                        | 46.87                          | 74.00            | -27.13              |
| 2390.00        |                            |                           |                      |                           |                                |                         |                        | 25.35                          | 54.00            | -28.65              |
| 2359.80        |                            |                           |                      |                           |                                |                         |                        | 49.21                          | 74.00            | -24.79              |
| 2359.80        |                            |                           |                      |                           |                                |                         |                        | 26.35                          | 54.00            | -27.65              |
| 2400.00        | 35.50                      | 150                       | 135                  |                           |                                | 3.29                    | 31.26                  | 70.05                          | 81.04            | -10.99              |
| 2483.50        |                            |                           |                      |                           |                                |                         |                        | 48.50                          | 74.00            | -25.50              |
| 2483.50        |                            |                           |                      |                           |                                |                         |                        | 37.16                          | 54.00            | -16.84              |
| 2520.70        |                            |                           |                      |                           |                                |                         |                        | 49.34                          | 74.00            | -24.66              |
| 2520.70        |                            |                           |                      |                           |                                |                         |                        | 37.99                          | 54.00            | -16.01              |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = F_m - \Delta m$$

Where

BE = Band Edge Field Strength

F<sub>m</sub> = Measured Fundamental (Peak or Average)

Δm = Measured Conducted Band Edge Delta (Peak or Average)

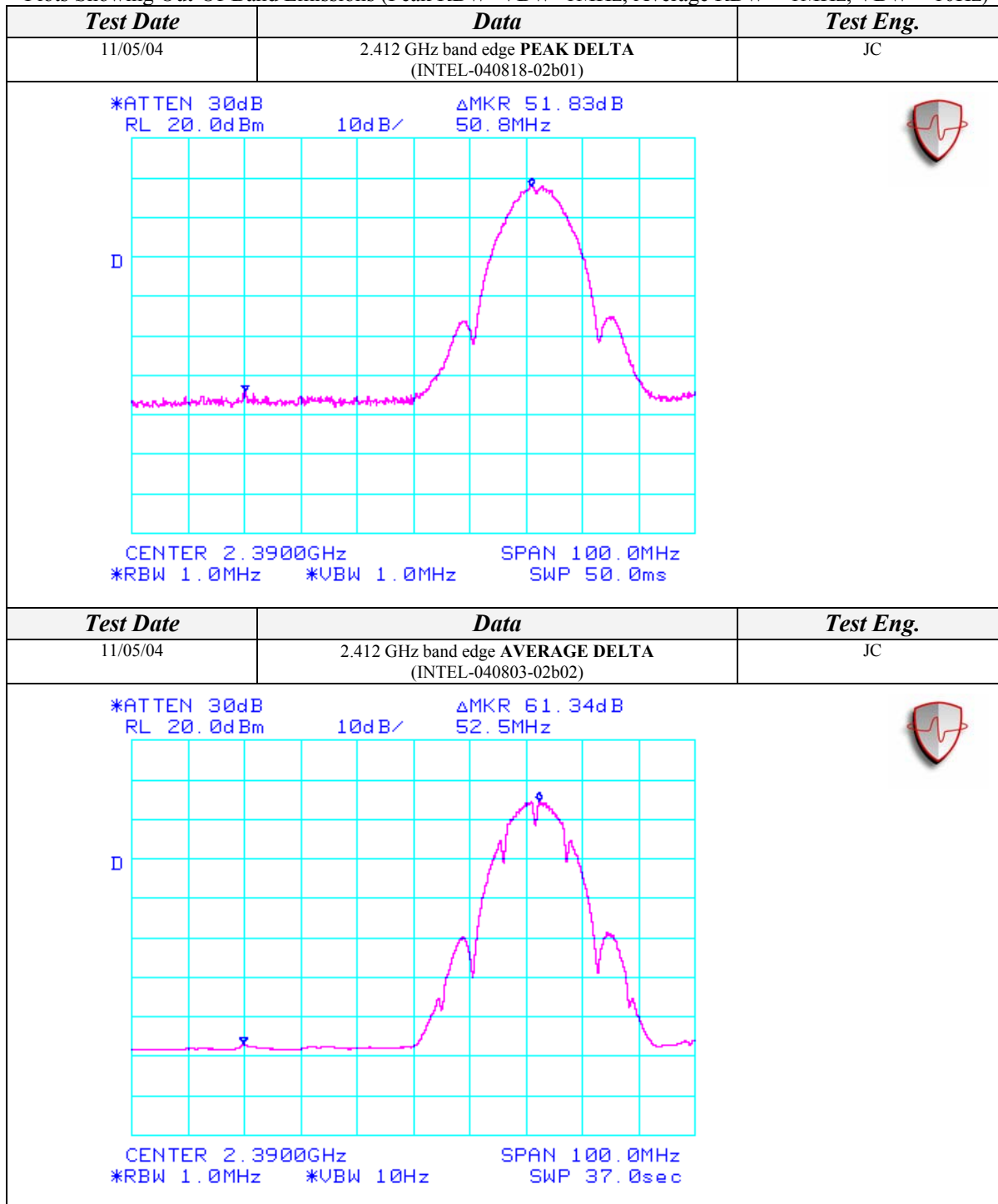
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



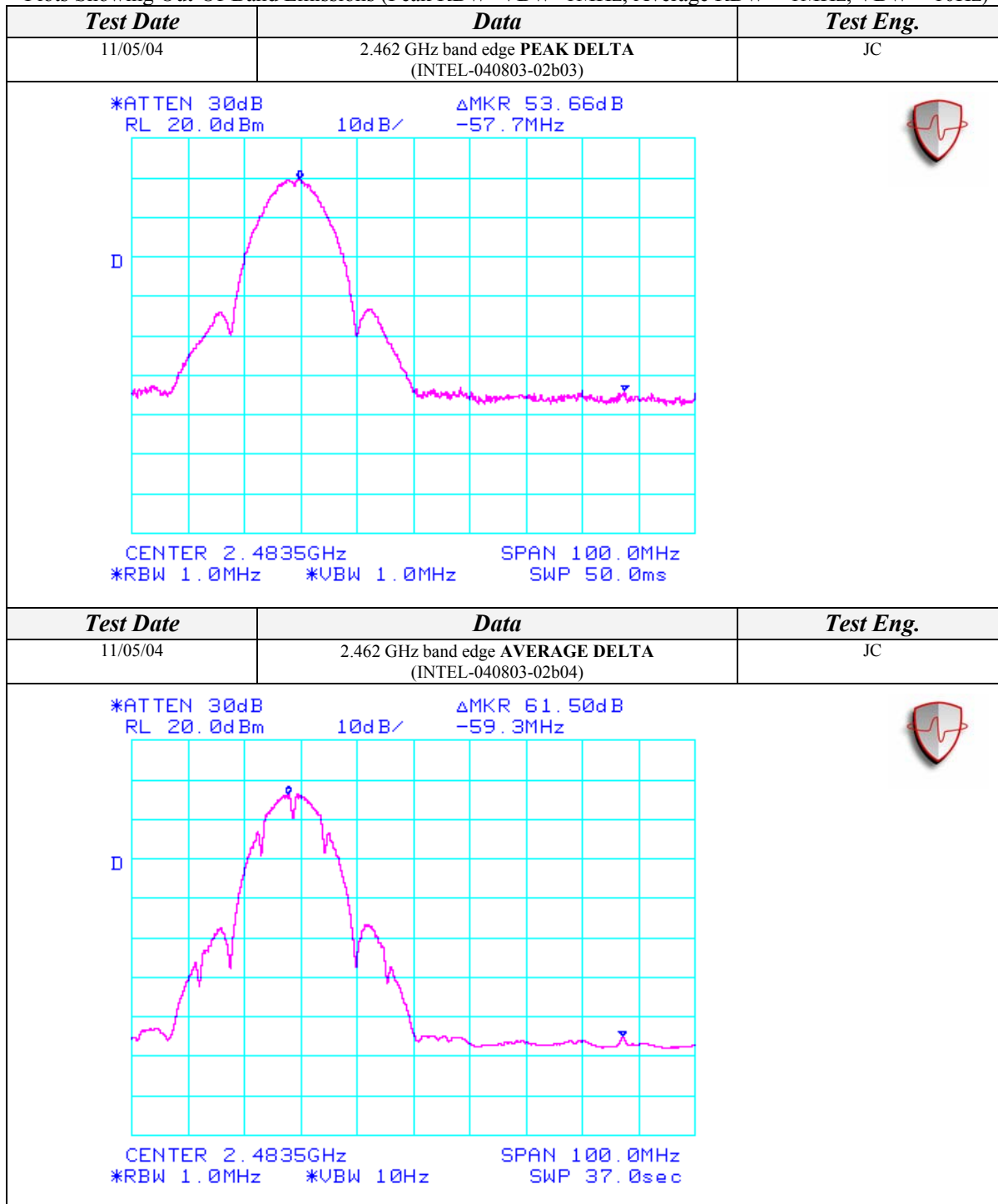
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



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## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11b mode (2412-2462 MHz)*  
*Channels 1, 6, & 11*  
*Continuous TX at MAIN Antenna port with Hitachi (Samsung Neon) Antennas*  
*Aegis Labs, Inc. File #: INTEL-041021-10*

| RADIATED EMISSIONS - Horizontal Antenna Polarization      |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
|-----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|---------------------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | 1 Meter<br>Distance<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2312.00                                                   | 31.33                      | 100                       | 135                  |                           |   | 9.54                                  | 3.23                    | 31.35                  | 56.37                          | 74.00            | -17.63              |
| 2312.00                                                   |                            |                           |                      | 15.36                     | A | 9.54                                  | 3.23                    | 31.35                  | 40.40                          | 54.00            | -13.60              |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2336.00                                                   | 30.83                      | 100                       | 135                  |                           |   | 9.54                                  | 3.25                    | 31.29                  | 55.83                          | 74.00            | -18.17              |
| 2336.00                                                   |                            |                           |                      | 15.13                     | A | 9.54                                  | 3.25                    | 31.29                  | 40.13                          | 54.00            | -13.87              |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2358.66                                                   | 31.17                      | 100                       | 135                  |                           |   | 9.54                                  | 3.26                    | 31.24                  | 56.13                          | 74.00            | -17.87              |
| 2358.66                                                   |                            |                           |                      | 14.15                     | A | 9.54                                  | 3.26                    | 31.24                  | 39.11                          | 54.00            | -14.89              |
| RADIATED EMISSIONS - Vertical Antenna Polarization        |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | 1 Meter<br>Distance<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2312.00                                                   | 32.50                      | 100                       | 225                  |                           |   | 9.54                                  | 3.23                    | 31.40                  | 57.59                          | 74.00            | -16.41              |
| 2312.00                                                   |                            |                           |                      | 16.94                     | A | 9.54                                  | 3.23                    | 31.40                  | 42.03                          | 54.00            | -11.97              |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2336.00                                                   | 31.67                      | 100                       | 225                  |                           |   | 9.54                                  | 3.25                    | 31.36                  | 56.74                          | 74.00            | -17.26              |
| 2336.00                                                   |                            |                           |                      | 15.95                     | A | 9.54                                  | 3.25                    | 31.36                  | 41.02                          | 54.00            | -12.98              |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2358.66                                                   | 31.00                      | 100                       | 180                  |                           |   | 9.54                                  | 3.26                    | 31.33                  | 56.05                          | 74.00            | -17.95              |
| 2358.66                                                   |                            |                           |                      | 15.33                     | A | 9.54                                  | 3.26                    | 31.33                  | 40.38                          | 54.00            | -13.62              |

NOTE: These spurious emissions measurements were taken without a preamp at a distance on 1 meter to avoid saturating the preamp and analyzer because the signals were close to the fundamental frequency. The readings were extrapolated to 1 meter.

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## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11b mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with Hitachi (Samsung Neon) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-11*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                          | 51.67                      | 100                       | 225                  |                           |   | 43.07                    | 3.89                    | 30.24                  | 42.73                          | 85.91            | -43.18              |
| 4824.01                                                          | 57.33                      | 100                       | 135                  |                           |   | 43.27                    | 4.73                    | 34.53                  | 53.32                          | 74.00            | -20.68              |
| 4824.01                                                          |                            |                           |                      | 53.32                     | A | 43.27                    | 4.73                    | 34.53                  | 49.31                          | 54.00            | -4.69               |
| 6431.98                                                          | 57.17                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 55.73                          | 85.91            | -30.18              |
| 9648.01                                                          | 51.00                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.88                  | 53.61                          | 85.91            | -32.30              |
| 12864.03                                                         | 50.00                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 43.86                  | 57.99                          | 85.91            | -27.92              |
| <b>EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.32                                                          | 51.83                      | 100                       | 225                  |                           |   | 43.08                    | 3.91                    | 30.25                  | 42.90                          | 88.20            | -45.30              |
| 4873.99                                                          | 55.67                      | 100                       | 135                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 51.87                          | 74.00            | -22.13              |
| 4873.99                                                          |                            |                           |                      | 49.98                     | A | 43.29                    | 4.77                    | 34.72                  | 46.18                          | 54.00            | -7.82               |
| 6498.69                                                          | 58.83                      | 150                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.90                  | 57.66                          | 88.20            | -30.54              |
| 9747.96                                                          | 50.50                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.00                  | 53.23                          | 88.20            | -34.97              |
| 12997.37                                                         | 49.67                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.29                  | 58.15                          | 88.20            | -30.05              |
| <b>EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.69                                                          | 50.67                      | 100                       | 180                  |                           |   | 43.10                    | 3.91                    | 30.26                  | 41.74                          | 87.50            | -45.76              |
| 4924.00                                                          | 56.00                      | 100                       | 90                   |                           |   | 43.30                    | 4.81                    | 34.91                  | 52.41                          | 74.00            | -21.59              |
| 4924.00                                                          |                            |                           |                      | 50.46                     | A | 43.30                    | 4.81                    | 34.91                  | 46.87                          | 54.00            | -7.13               |
| 6565.34                                                          | 56.83                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.32                  | 56.14                          | 87.50            | -31.36              |
| 9848.01                                                          | 51.33                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.12                  | 54.19                          | 87.50            | -33.31              |
| 13130.67                                                         | 50.17                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.25                  | 58.79                          | 87.50            | -28.71              |

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## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization        |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|-----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                   | 50.50                      | 100                       | 135                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 41.76                          | 81.04            | -39.28              |
| 4823.98                                                   | 55.83                      | 100                       | 180                  |                           |   | 43.27                    | 4.73                    | 34.53                  | 51.82                          | 74.00            | -22.18              |
| 4823.98                                                   |                            |                           |                      | 51.20                     | A | 43.27                    | 4.73                    | 34.53                  | 47.19                          | 54.00            | -6.81               |
| 6431.95                                                   | 56.67                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 55.23                          | 81.04            | -25.81              |
| 9647.98                                                   | 51.33                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 54.03                          | 81.04            | -27.01              |
| 12864.01                                                  | 49.50                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 44.23                  | 57.85                          | 81.04            | -23.19              |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.32                                                   | 50.67                      | 100                       | 180                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 41.94                          | 84.19            | -42.25              |
| 4874.01                                                   | 56.33                      | 100                       | 225                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 52.53                          | 74.00            | -21.47              |
| 4874.01                                                   |                            |                           |                      | 52.07                     | A | 43.29                    | 4.77                    | 34.72                  | 48.27                          | 54.00            | -5.73               |
| 6498.66                                                   | 57.00                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.89                  | 55.83                          | 84.19            | -28.36              |
| 9748.04                                                   | 51.00                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.15                  | 53.88                          | 84.19            | -30.31              |
| 12997.35                                                  | 50.83                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.49                  | 59.51                          | 84.19            | -24.68              |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.66                                                   | 50.17                      | 100                       | 135                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 41.44                          | 83.00            | -41.56              |
| 4924.00                                                   | 57.33                      | 100                       | 225                  |                           |   | 43.30                    | 4.81                    | 34.91                  | 53.74                          | 74.00            | -20.26              |
| 4924.00                                                   |                            |                           |                      | 53.23                     | A | 43.30                    | 4.81                    | 34.91                  | 49.64                          | 54.00            | -4.36               |
| 6565.32                                                   | 56.50                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.38                  | 55.87                          | 83.00            | -27.13              |
| 9847.96                                                   | 50.50                      | 100                       | 90                   |                           |   | 43.29                    | 7.03                    | 39.33                  | 53.57                          | 83.00            | -29.43              |
| 13130.63                                                  | 49.83                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.45                  | 58.65                          | 83.00            | -24.35              |



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## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in in802.11b mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous RX at MAIN Antenna port with Hitachi (Samsung Neon) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-11*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                  | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|-----------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3216.02                                                         | 51.00                      | 100                       | 180                  |                           |                          | 43.07                   | 3.89                   | 30.24                          | 42.06            | 80.00 -37.94        |
| 3216.02                                                         |                            |                           |                      | 42.63                     | A                        | 43.07                   | 3.89                   | 30.24                          | 33.69            | 60.00 -26.31        |
| 6432.00                                                         | 59.17                      | 100                       | 135                  |                           |                          | 43.82                   | 5.73                   | 36.64                          | 57.73            | 80.00 -22.27        |
| 6432.00                                                         |                            |                           |                      | 56.10                     | A                        | 43.82                   | 5.73                   | 36.64                          | 54.66            | 60.00 -5.34         |
| 9648.01                                                         | 50.50                      | 100                       | 135                  |                           |                          | 43.22                   | 6.95                   | 38.88                          | 53.11            | 80.00 -26.89        |
| 9648.01                                                         |                            |                           |                      | 39.88                     | A                        | 43.22                   | 6.95                   | 38.88                          | 42.49            | 60.00 -17.51        |
| <b>EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3249.32                                                         | 52.00                      | 100                       | 225                  |                           |                          | 43.08                   | 3.91                   | 30.25                          | 43.07            | 80.00 -36.93        |
| 3249.32                                                         |                            |                           |                      | 44.32                     | A                        | 43.08                   | 3.91                   | 30.25                          | 35.39            | 60.00 -24.61        |
| 6498.70                                                         | 60.33                      | 100                       | 135                  |                           |                          | 43.84                   | 5.78                   | 36.90                          | 59.16            | 80.00 -20.84        |
| 6498.70                                                         |                            |                           |                      | 57.73                     | A                        | 43.84                   | 5.78                   | 36.90                          | 56.56            | 60.00 -3.44         |
| 9747.99                                                         | 50.17                      | 100                       | 135                  |                           |                          | 43.25                   | 6.99                   | 39.00                          | 52.90            | 80.00 -27.10        |
| 9747.99                                                         |                            |                           |                      | 39.58                     | A                        | 43.25                   | 6.99                   | 39.00                          | 42.31            | 60.00 -17.69        |
| <b>EUT in Continuous Receive Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3282.66                                                         | 51.17                      | 100                       | 225                  |                           |                          | 43.10                   | 3.91                   | 30.26                          | 42.24            | 80.00 -37.76        |
| 3282.66                                                         |                            |                           |                      | 42.85                     | A                        | 43.10                   | 3.91                   | 30.26                          | 33.92            | 60.00 -26.08        |
| 6565.32                                                         | 57.83                      | 100                       | 135                  |                           |                          | 43.84                   | 5.83                   | 37.32                          | 57.14            | 80.00 -22.86        |
| 6565.32                                                         |                            |                           |                      | 54.61                     | A                        | 43.84                   | 5.83                   | 37.32                          | 53.92            | 60.00 -6.08         |
| 9848.01                                                         | 50.17                      | 100                       | 180                  |                           |                          | 43.29                   | 7.03                   | 39.12                          | 53.03            | 80.00 -26.97        |
| 9848.01                                                         |                            |                           |                      | 38.86                     | A                        | 43.29                   | 7.03                   | 39.12                          | 41.72            | 60.00 -18.28        |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization       |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                           | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                  | 50.83                      | 100                       | 180                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 42.09                          | 80.00            | -37.91              |
| 3216.00                                                  |                            |                           |                      | 42.49                     | A | 43.07                    | 3.89                    | 30.44                  | 33.75                          | 60.00            | -26.25              |
| 6432.02                                                  | 57.33                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 55.89                          | 80.00            | -24.11              |
| 6432.02                                                  |                            |                           |                      | 53.97                     | A | 43.82                    | 5.73                    | 36.64                  | 52.53                          | 60.00            | -7.47               |
| 9648.02                                                  | 50.50                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 53.20                          | 80.00            | -26.80              |
| 9648.02                                                  |                            |                           |                      | 38.86                     | A | 43.22                    | 6.95                    | 38.97                  | 41.56                          | 60.00            | -18.44              |
| EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.32                                                  | 50.67                      | 100                       | 225                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 41.94                          | 80.00            | -38.06              |
| 3249.32                                                  |                            |                           |                      | 42.22                     | A | 43.08                    | 3.91                    | 30.45                  | 33.49                          | 60.00            | -26.51              |
| 6498.67                                                  | 57.67                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.89                  | 56.50                          | 80.00            | -23.50              |
| 6498.67                                                  |                            |                           |                      | 54.13                     | A | 43.84                    | 5.78                    | 36.89                  | 52.96                          | 60.00            | -7.04               |
| 9748.00                                                  | 50.33                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.15                  | 53.21                          | 80.00            | -26.79              |
| 9748.00                                                  |                            |                           |                      | 38.29                     | A | 43.25                    | 6.99                    | 39.15                  | 41.17                          | 60.00            | -18.83              |
| EUT in Continuous Receive Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.67                                                  | 50.17                      | 100                       | 180                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 41.44                          | 80.00            | -38.56              |
| 3282.67                                                  |                            |                           |                      | 40.51                     | A | 43.10                    | 3.91                    | 30.46                  | 31.78                          | 60.00            | -28.22              |
| 6565.32                                                  | 56.83                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.38                  | 56.20                          | 80.00            | -23.80              |
| 6565.32                                                  |                            |                           |                      | 52.69                     | A | 43.84                    | 5.83                    | 37.38                  | 52.06                          | 60.00            | -7.94               |
| 9847.98                                                  | 50.33                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.33                  | 53.40                          | 80.00            | -26.60              |
| 9847.98                                                  |                            |                           |                      | 38.58                     | A | 43.29                    | 7.03                    | 39.33                  | 41.65                          | 60.00            | -18.35              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

|                       |                                                                                                                                                       |                        |              |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|
| <b>CLIENT:</b>        | Intel Corporation                                                                                                                                     | <b>DATE:</b>           | 10/25/04     |
| <b>EUT:</b>           | Intel PRO/Wireless 2915ABG Network Connection                                                                                                         | <b>PROJECT NUMBER:</b> | INTEL-041021 |
| <b>MODEL NUMBER:</b>  | WM3B2915ABG                                                                                                                                           | <b>TEST ENGINEER:</b>  | JC           |
| <b>SERIAL NUMBER:</b> | 344F96244ABC51962012                                                                                                                                  | <b>SITE #:</b>         | 2            |
| <b>CONFIGURATION:</b> | Tested installed in the Hewlett Packard host computer's mini PCI slot in <b>802.11g (2412-2462 MHz) mode with the Hitachi (Samsung Neon) antennas</b> | <b>TEMPERATURE:</b>    | 20 C         |
|                       |                                                                                                                                                       | <b>HUMIDITY:</b>       | 53% RH       |
|                       |                                                                                                                                                       | <b>TIME:</b>           | 2:00 PM      |

|                     |                                                                                                                                                                                                    |
|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Standard:</b>    | FCC CFR 47, Part 15.247(c)                                                                                                                                                                         |
| <b>Description:</b> | Radiated emissions, which fall in the restricted bands, as defined in Sec. 15.205(a), must also comply with the radiated emission limits specified in Sec. 15.209(a). All others must be < -20dBc. |
| <b>Results:</b>     | Passes (See Data Sheets)                                                                                                                                                                           |

| Unwanted Spurious Emissions Limits |                       |                                                                |                                                                      |
|------------------------------------|-----------------------|----------------------------------------------------------------|----------------------------------------------------------------------|
| Frequency (MHz)                    | Field Strength (uV/m) | Field Strength (dBuV/m)<br>(Emissions in the restricted bands) | Field Strength (dBm/MHz)<br>(Emissions outside the restricted bands) |
| Above 960                          | 500                   | 54.00 (Average)<br>74.00 (Peak)                                | < -20 dBc                                                            |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Fundamental Measurements in 802.11g mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with Hitachi (Samsung Neon) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-09*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 2412.00        | 75.67                      | 100                       | 135                  |                           |                          | 3.30                    | 31.11                  | 110.08                         |                  |                     |
| 2412.00        |                            |                           |                      | 64.97                     | A                        | 3.30                    | 31.11                  | 99.38                          |                  |                     |
| 2437.00        | 74.33                      | 150                       | 135                  |                           |                          | 3.32                    | 31.05                  | 108.70                         |                  |                     |
| 2437.00        |                            |                           |                      | 63.78                     | A                        | 3.32                    | 31.05                  | 98.15                          |                  |                     |
| 2462.00        | 75.67                      | 125                       | 135                  |                           |                          | 3.34                    | 30.99                  | 110.00                         |                  |                     |
| 2462.00        |                            |                           |                      | 65.17                     | A                        | 3.34                    | 30.99                  | 99.50                          |                  |                     |

### RADIATED EMISSIONS – Vertical Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 2412.00        | 68.00                      | 100                       | 135                  |                           |                          | 3.30                    | 31.24                  | 102.54                         |                  |                     |
| 2412.00        |                            |                           |                      | 56.85                     | A                        | 3.30                    | 31.24                  | 91.39                          |                  |                     |
| 2437.00        | 70.17                      | 100                       | 225                  |                           |                          | 3.32                    | 31.20                  | 104.69                         |                  |                     |
| 2437.00        |                            |                           |                      | 59.74                     | A                        | 3.32                    | 31.20                  | 94.26                          |                  |                     |
| 2462.00        | 70.67                      | 100                       | 225                  |                           |                          | 3.34                    | 31.16                  | 105.17                         |                  |                     |
| 2462.00        |                            |                           |                      | 60.50                     | A                        | 3.34                    | 31.16                  | 95.00                          |                  |                     |

NOTE: Fundamental signals measured to calculate the band edge field strengths using the “Marker Delta Method”.

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## Spurious Radiated Emissions Test Results (Continued)

*Band Edge Field Strength Measurements in 802.11g mode (2412-2462 MHz)*

*Channels 1, 6, & 11*

*Continuous TX at MAIN Antenna port with Hitachi (Samsung Neon) Antennas*

*Aegis Labs, Inc. File #: INTEL-041021-09*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 63.74                          | 74.00            | -10.26              |
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 48.71                          | 54.00            | -5.29               |
| 2400.00        | 52.17                      | 100                       | 135                  |                           |                          | 3.29                    | 31.14                  | 86.60                          | 90.08            | -3.48               |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 65.50                          | 74.00            | -8.50               |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 48.50                          | 54.00            | -5.50               |

### RADIATED EMISSIONS – Vertical Antenna Polarization

| Freq.<br>(MHz) | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|----------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 56.20                          | 74.00            | -17.80              |
| 2390.00        |                            |                           |                      |                           |                          |                         |                        | 40.72                          | 54.00            | -13.28              |
| 2400.00        | 43.50                      | 100                       | 135                  |                           |                          | 3.29                    | 31.26                  | 78.05                          | 82.54            | -4.49               |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 60.67                          | 74.00            | -13.33              |
| 2483.50        |                            |                           |                      |                           |                          |                         |                        | 44.00                          | 54.00            | -10.00              |

NOTE: The “Band Edge Field Strength” was calculated using the “Fundamental” and “Conducted Band Edge” measurements per the “Marker-Delta Method” with the following formula:

$$BE = F_m - \Delta m$$

Where

BE = Band Edge Field Strength

F<sub>m</sub> = Measured Fundamental (Peak or Average)

Δm = Measured Conducted Band Edge Delta (Peak or Average)

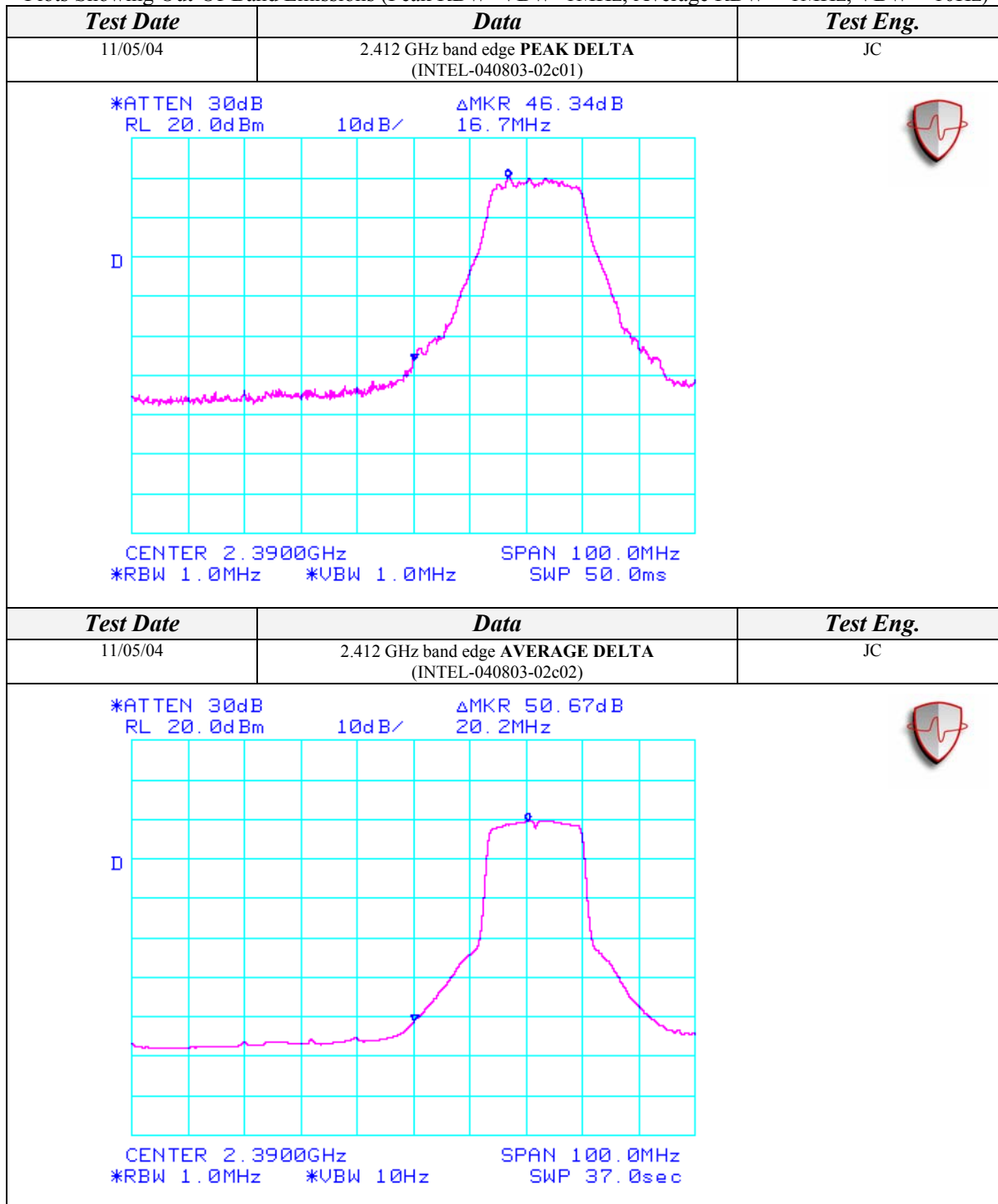
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



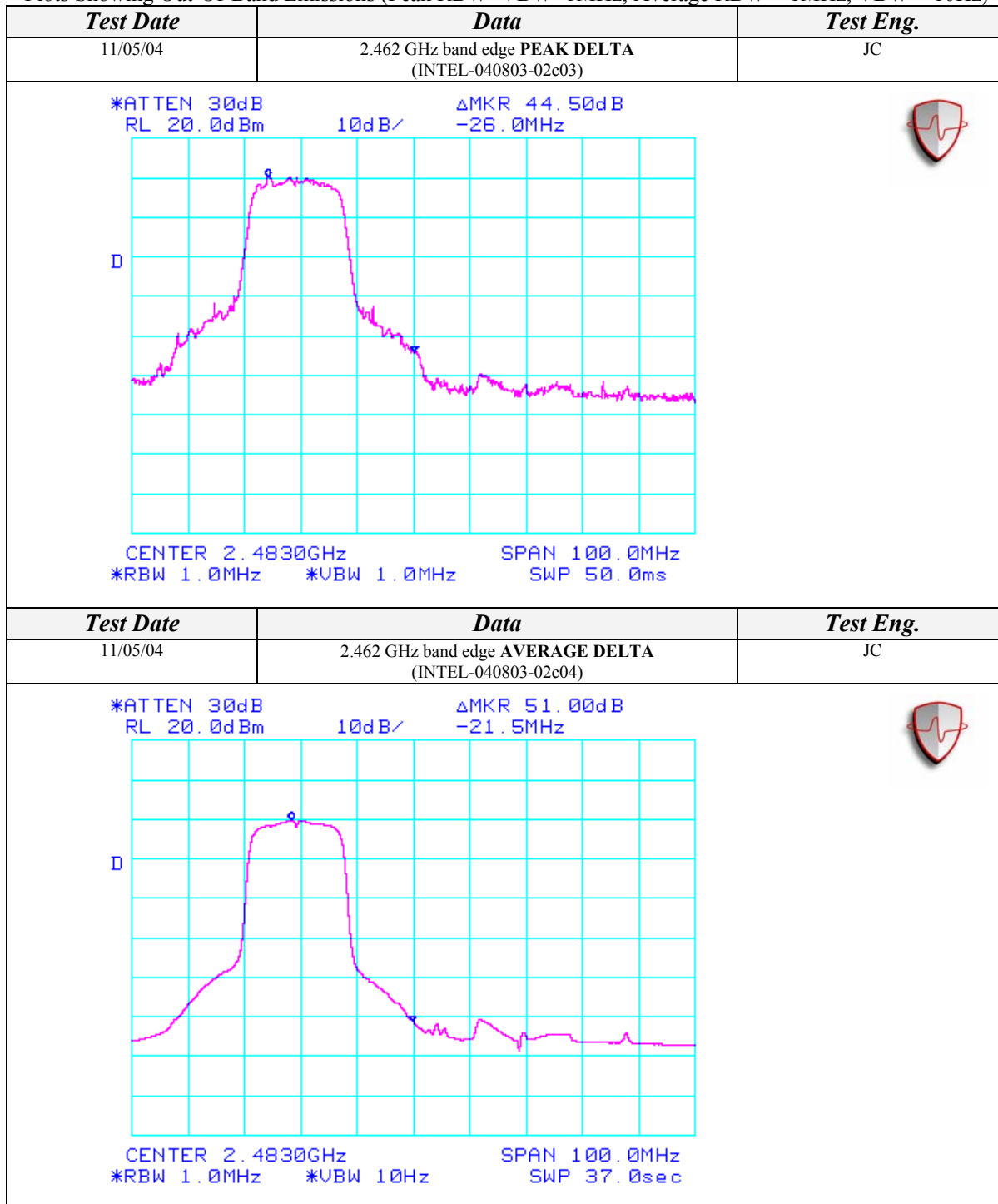
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## Spurious Radiated Emissions Test Results (Continued)

Plots Showing Out-Of-Band Emissions (Peak RBW=VBW=1MHz; Average RBW = 1MHz, VBW = 10Hz)



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## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11g mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with Hitachi (Samsung Neon) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-10*

| RADIATED EMISSIONS - Horizontal Antenna Polarization      |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
|-----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|---------------------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | 1 Meter<br>Distance<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2312.00                                                   | 32.17                      | 100                       | 135                  |                           |   | 9.54                                  | 3.23                    | 31.35                  | 57.21                          | 74.00            | -16.79              |
| 2312.00                                                   |                            |                           |                      | 19.93                     | A | 9.54                                  | 3.23                    | 31.35                  | 44.97                          | 54.00            | -9.03               |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2336.00                                                   | 32.33                      | 100                       | 225                  |                           |   | 9.54                                  | 3.25                    | 31.29                  | 57.33                          | 74.00            | -16.67              |
| 2336.00                                                   |                            |                           |                      | 19.67                     | A | 9.54                                  | 3.25                    | 31.29                  | 44.67                          | 54.00            | -9.33               |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2358.66                                                   | 31.67                      | 100                       | 270                  |                           |   | 9.54                                  | 3.26                    | 31.24                  | 56.63                          | 74.00            | -17.37              |
| 2358.66                                                   |                            |                           |                      | 15.74                     | A | 9.54                                  | 3.26                    | 31.24                  | 40.70                          | 54.00            | -13.30              |
| RADIATED EMISSIONS - Vertical Antenna Polarization        |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| Freq.<br>(MHz)                                            | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | 1 Meter<br>Distance<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2312.00                                                   | 33.83                      | 100                       | 225                  |                           |   | 9.54                                  | 3.23                    | 31.40                  | 58.92                          | 74.00            | -15.08              |
| 2312.00                                                   |                            |                           |                      | 23.73                     | A | 9.54                                  | 3.23                    | 31.40                  | 48.82                          | 54.00            | -5.18               |
| EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2336.00                                                   | 33.67                      | 100                       | 180                  |                           |   | 9.54                                  | 3.25                    | 31.36                  | 58.74                          | 74.00            | -15.26              |
| 2336.00                                                   |                            |                           |                      | 24.63                     | A | 9.54                                  | 3.25                    | 31.36                  | 49.70                          | 54.00            | -4.30               |
| EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                                       |                         |                        |                                |                  |                     |
| 2358.68                                                   | 32.33                      | 100                       | 225                  |                           |   | 9.54                                  | 3.26                    | 31.33                  | 57.38                          | 74.00            | -16.62              |
| 2358.68                                                   |                            |                           |                      | 19.00                     | A | 9.54                                  | 3.26                    | 31.33                  | 44.05                          | 54.00            | -9.95               |

NOTE: These spurious emissions measurements were taken without a preamp at a distance on 1 meter to avoid saturating the preamp and analyzer because the signals were close to the fundamental frequency. The readings were extrapolated to 1 meter.

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## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11g mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous TX at MAIN Antenna port with Hitachi (Samsung Neon) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-11*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                          | 51.00                      | 100                       | 180                  |                           |   | 43.07                    | 3.89                    | 30.24                  | 42.06                          | 90.08            | -48.02              |
| 4824.20                                                          | 53.67                      | 100                       | 135                  |                           |   | 43.27                    | 4.73                    | 34.53                  | 49.67                          | 74.00            | -24.33              |
| 4824.20                                                          |                            |                           |                      | 42.97                     | A | 43.27                    | 4.73                    | 34.53                  | 38.97                          | 54.00            | -15.03              |
| 6432.05                                                          | 56.83                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 55.39                          | 90.08            | -34.69              |
| 9647.97                                                          | 50.33                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.88                  | 52.94                          | 90.08            | -37.14              |
| 12864.02                                                         | 50.00                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 43.86                  | 57.99                          | 90.08            | -32.09              |
| <b>EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.37                                                          | 50.83                      | 100                       | 225                  |                           |   | 43.08                    | 3.91                    | 30.25                  | 41.90                          | 88.70            | -46.80              |
| 4874.06                                                          | 52.83                      | 100                       | 135                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 49.03                          | 74.00            | -24.97              |
| 4874.06                                                          |                            |                           |                      | 42.03                     | A | 43.29                    | 4.77                    | 34.72                  | 38.23                          | 54.00            | -15.77              |
| 6498.69                                                          | 57.50                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.90                  | 56.33                          | 88.70            | -32.37              |
| 9748.09                                                          | 51.00                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.00                  | 53.73                          | 88.70            | -34.97              |
| 12997.35                                                         | 49.83                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.29                  | 58.31                          | 88.70            | -30.39              |
| <b>EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.68                                                          | 50.17                      | 100                       | 225                  |                           |   | 43.10                    | 3.91                    | 30.26                  | 41.24                          | 90.00            | -48.76              |
| 4923.82                                                          | 53.17                      | 100                       | 135                  |                           |   | 43.30                    | 4.81                    | 34.91                  | 49.58                          | 74.00            | -24.42              |
| 4923.82                                                          |                            |                           |                      | 42.39                     | A | 43.30                    | 4.81                    | 34.91                  | 38.80                          | 54.00            | -15.20              |
| 6565.42                                                          | 57.17                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.32                  | 56.48                          | 90.00            | -33.52              |
| 9847.97                                                          | 50.67                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.12                  | 53.53                          | 90.00            | -36.47              |
| 13130.70                                                         | 49.17                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.25                  | 57.79                          | 90.00            | -32.21              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization               |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|------------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                                   | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| <b>EUT in Continuous Transmit Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.01                                                          | 50.00                      | 100                       | 180                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 41.26                          | 82.54            | -41.28              |
| 4823.97                                                          | 43.17                      | 100                       | 135                  |                           |   | 43.27                    | 4.73                    | 34.53                  | 39.16                          | 74.00            | -34.84              |
| 4823.97                                                          |                            |                           |                      | 41.02                     | A | 43.27                    | 4.73                    | 34.53                  | 37.01                          | 54.00            | -16.99              |
| 6432.01                                                          | 53.33                      | 100                       | 135                  |                           |   | 43.82                    | 5.73                    | 36.64                  | 51.89                          | 82.54            | -30.65              |
| 9648.03                                                          | 51.00                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 53.70                          | 82.54            | -28.84              |
| 12863.98                                                         | 50.17                      | 100                       | 135                  |                           |   | 43.83                    | 7.95                    | 44.23                  | 58.52                          | 82.54            | -24.02              |
| <b>EUT in Continuous Transmit Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.35                                                          | 50.17                      | 100                       | 225                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 41.44                          | 84.69            | -43.25              |
| 4874.03                                                          | 53.00                      | 100                       | 135                  |                           |   | 43.29                    | 4.77                    | 34.72                  | 49.20                          | 74.00            | -24.80              |
| 4874.03                                                          |                            |                           |                      | 40.56                     | A | 43.29                    | 4.77                    | 34.72                  | 36.76                          | 54.00            | -17.24              |
| 6498.67                                                          | 54.50                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.89                  | 53.33                          | 84.69            | -31.36              |
| 9748.00                                                          | 50.00                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.15                  | 52.88                          | 84.69            | -31.81              |
| 12997.30                                                         | 49.83                      | 100                       | 135                  |                           |   | 43.83                    | 8.02                    | 44.49                  | 58.51                          | 84.69            | -26.18              |
| <b>EUT in Continuous Transmit Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.65                                                          | 49.67                      | 100                       | 180                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 40.94                          | 85.17            | -44.23              |
| 4924.01                                                          | 52.33                      | 100                       | 135                  |                           |   | 43.30                    | 4.81                    | 34.91                  | 48.74                          | 74.00            | -25.26              |
| 4924.01                                                          |                            |                           |                      | 40.13                     | A | 43.30                    | 4.81                    | 34.91                  | 36.54                          | 54.00            | -17.46              |
| 6565.34                                                          | 53.83                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.38                  | 53.20                          | 85.17            | -31.97              |
| 9848.02                                                          | 50.33                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.33                  | 53.40                          | 85.17            | -31.77              |
| 13130.62                                                         | 49.50                      | 100                       | 135                  |                           |   | 43.70                    | 8.07                    | 44.45                  | 58.32                          | 85.17            | -26.85              |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

*Spurious Emissions Measurements in 802.11g mode (2412-2462 MHz)  
Channels 1, 6, & 11  
Continuous RX at MAIN Antenna port with Hitachi (Samsung Neon) Antennas  
Aegis Labs, Inc. File #: INTEL-041021-11*

### RADIATED EMISSIONS - Horizontal Antenna Polarization

| Freq.<br>(MHz)                                                  | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
|-----------------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| <b>EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)</b>  |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3216.00                                                         | 52.17                      | 100                       | 180                  |                           |                          | 43.07                   | 3.89                   | 30.24                          | 43.23            | 80.00 -36.77        |
| 3216.00                                                         |                            |                           |                      | 45.29                     | A                        | 43.07                   | 3.89                   | 30.24                          | 36.35            | 60.00 -23.65        |
| 6431.98                                                         | 58.83                      | 100                       | 135                  |                           |                          | 43.82                   | 5.73                   | 36.64                          | 57.39            | 80.00 -22.61        |
| 6431.98                                                         |                            |                           |                      | 56.01                     | A                        | 43.82                   | 5.73                   | 36.64                          | 54.57            | 60.00 -5.43         |
| 9648.00                                                         | 50.17                      | 100                       | 135                  |                           |                          | 43.22                   | 6.95                   | 38.88                          | 52.78            | 80.00 -27.22        |
| 9648.00                                                         |                            |                           |                      | 39.12                     | A                        | 43.22                   | 6.95                   | 38.88                          | 41.73            | 60.00 -18.27        |
| <b>EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)</b>  |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3249.32                                                         | 52.00                      | 100                       | 180                  |                           |                          | 43.08                   | 3.91                   | 30.25                          | 43.07            | 80.00 -36.93        |
| 3249.32                                                         |                            |                           |                      | 44.79                     | A                        | 43.08                   | 3.91                   | 30.25                          | 35.86            | 60.00 -24.14        |
| 6498.67                                                         | 57.67                      | 100                       | 135                  |                           |                          | 43.84                   | 5.78                   | 36.89                          | 56.50            | 80.00 -23.50        |
| 6498.67                                                         |                            |                           |                      | 53.08                     | A                        | 43.84                   | 5.78                   | 36.89                          | 51.91            | 60.00 -8.09         |
| 9748.03                                                         | 51.00                      | 100                       | 135                  |                           |                          | 43.25                   | 6.99                   | 39.00                          | 53.73            | 80.00 -26.27        |
| 9748.03                                                         |                            |                           |                      | 40.31                     | A                        | 43.25                   | 6.99                   | 39.00                          | 43.04            | 60.00 -16.96        |
| <b>EUT in Continuous Receive Mode on Channel 11 (2.462 GHz)</b> |                            |                           |                      |                           |                          |                         |                        |                                |                  |                     |
| 3282.66                                                         | 51.33                      | 100                       | 225                  |                           |                          | 43.10                   | 3.91                   | 30.26                          | 42.40            | 80.00 -37.60        |
| 3282.66                                                         |                            |                           |                      | 43.30                     | A                        | 43.10                   | 3.91                   | 30.26                          | 34.37            | 60.00 -25.63        |
| 6565.32                                                         | 58.00                      | 100                       | 135                  |                           |                          | 43.84                   | 5.83                   | 37.32                          | 57.31            | 80.00 -22.69        |
| 6565.32                                                         |                            |                           |                      | 54.87                     | A                        | 43.84                   | 5.83                   | 37.32                          | 54.18            | 60.00 -5.82         |
| 9848.00                                                         | 50.67                      | 100                       | 135                  |                           |                          | 43.29                   | 7.03                   | 39.12                          | 53.53            | 80.00 -26.47        |
| 9848.00                                                         |                            |                           |                      | 40.09                     | A                        | 43.29                   | 7.03                   | 39.12                          | 42.95            | 60.00 -17.05        |

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AEGIS LABS INC.

## Spurious Radiated Emissions Test Results (Continued)

| RADIATED EMISSIONS - Vertical Antenna Polarization       |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
|----------------------------------------------------------|----------------------------|---------------------------|----------------------|---------------------------|---|--------------------------|-------------------------|------------------------|--------------------------------|------------------|---------------------|
| Freq.<br>(MHz)                                           | Meter<br>Reading<br>(dBuV) | Antenna<br>Height<br>(cm) | Azimuth<br>(degrees) | Quasi pk or<br>AVG (dBuV) |   | Preamp<br>Factor<br>(dB) | Cable<br>Factor<br>(dB) | Ant.<br>Factor<br>(dB) | Corrected<br>Reading<br>(dBuV) | Limits<br>(dBuV) | Diff (dB)<br>+=FAIL |
| EUT in Continuous Receive Mode on Channel 1 (2.412 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3216.00                                                  | 51.67                      | 100                       | 225                  |                           |   | 43.07                    | 3.89                    | 30.44                  | 42.93                          | 80.00            | -37.07              |
| 3216.00                                                  |                            |                           |                      | 43.48                     | A | 43.07                    | 3.89                    | 30.44                  | 34.74                          | 60.00            | -25.26              |
| 6432.01                                                  | 55.33                      | 100                       | 90                   |                           |   | 43.82                    | 5.73                    | 36.64                  | 53.89                          | 80.00            | -26.11              |
| 6432.01                                                  |                            |                           |                      | 51.39                     | A | 43.82                    | 5.73                    | 36.64                  | 49.95                          | 60.00            | -10.05              |
| 9648.00                                                  | 50.00                      | 100                       | 135                  |                           |   | 43.22                    | 6.95                    | 38.97                  | 52.70                          | 80.00            | -27.30              |
| 9648.00                                                  |                            |                           |                      | 37.68                     | A | 43.22                    | 6.95                    | 38.97                  | 40.38                          | 60.00            | -19.62              |
| EUT in Continuous Receive Mode on Channel 6 (2.437 GHz)  |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3249.33                                                  | 51.00                      | 100                       | 225                  |                           |   | 43.08                    | 3.91                    | 30.45                  | 42.27                          | 80.00            | -37.73              |
| 3249.33                                                  |                            |                           |                      | 42.03                     | A | 43.08                    | 3.91                    | 30.45                  | 33.30                          | 60.00            | -26.70              |
| 6498.69                                                  | 57.50                      | 100                       | 135                  |                           |   | 43.84                    | 5.78                    | 36.90                  | 56.33                          | 80.00            | -23.67              |
| 6498.69                                                  |                            |                           |                      | 53.47                     | A | 43.84                    | 5.78                    | 36.90                  | 52.30                          | 60.00            | -7.70               |
| 9748.03                                                  | 49.83                      | 100                       | 135                  |                           |   | 43.25                    | 6.99                    | 39.15                  | 52.71                          | 80.00            | -27.29              |
| 9748.03                                                  |                            |                           |                      | 37.50                     | A | 43.25                    | 6.99                    | 39.15                  | 40.38                          | 60.00            | -19.62              |
| EUT in Continuous Receive Mode on Channel 11 (2.462 GHz) |                            |                           |                      |                           |   |                          |                         |                        |                                |                  |                     |
| 3282.67                                                  | 50.17                      | 100                       | 225                  |                           |   | 43.10                    | 3.91                    | 30.46                  | 41.44                          | 80.00            | -38.56              |
| 3282.67                                                  |                            |                           |                      | 41.08                     | A | 43.10                    | 3.91                    | 30.46                  | 32.35                          | 60.00            | -27.65              |
| 6565.34                                                  | 56.33                      | 100                       | 135                  |                           |   | 43.84                    | 5.83                    | 37.38                  | 55.70                          | 80.00            | -24.30              |
| 6565.34                                                  |                            |                           |                      | 52.37                     | A | 43.84                    | 5.83                    | 37.38                  | 51.74                          | 60.00            | -8.26               |
| 9848.04                                                  | 50.50                      | 100                       | 135                  |                           |   | 43.29                    | 7.03                    | 39.33                  | 53.57                          | 80.00            | -26.43              |
| 9848.04                                                  |                            |                           |                      | 38.50                     | A | 43.29                    | 7.03                    | 39.33                  | 41.57                          | 60.00            | -18.43              |

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AEGIS LABS INC.

## PEAK TRANSMIT POWER

|                       |                                                                        |                        |                 |
|-----------------------|------------------------------------------------------------------------|------------------------|-----------------|
| <b>CLIENT:</b>        | Intel Corporation                                                      | <b>DATE:</b>           | 10/21/04        |
| <b>EUT:</b>           | Intel PRO/Wireless 2915ABG Network Connection                          | <b>PROJECT NUMBER:</b> | INTEL-041021-01 |
| <b>MODEL NUMBER:</b>  | WM3B2915ABG                                                            | <b>TEST ENGINEER:</b>  | JC              |
| <b>SERIAL NUMBER:</b> | 344F96244ABC51962012                                                   | <b>SITE #:</b>         | 2               |
| <b>CONFIGURATION:</b> | Tested installed in the Hewlett Packard host computer's mini PCI slot. | <b>TEMPERATURE:</b>    | 18 C            |
|                       |                                                                        | <b>HUMIDITY:</b>       | 62% RH          |
|                       |                                                                        | <b>TIME:</b>           | 9:15 AM         |

|                     |                                                                                    |
|---------------------|------------------------------------------------------------------------------------|
| <b>Standard:</b>    | FCC CFR 47, Part 15.247(b)(1)                                                      |
| <b>Description:</b> | The maximum peak output power of the intentional radiator shall not exceed 1 watt. |
| <b>Results:</b>     | See Data Sheet                                                                     |

| Peak Transmit Power Limits |                  |
|----------------------------|------------------|
| Frequency (MHz)            | Output Power (W) |
| 5725-5850                  | 1                |
| 2412-2462                  | 1                |

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## Peak Transmit Power (Continued)

| Mode    | Channel | Frequency (MHz) | Rate (Mbps) | Average Power (dBm) | Average Power (mW) | Peak Power (dBm) | Peak Power (mW) |
|---------|---------|-----------------|-------------|---------------------|--------------------|------------------|-----------------|
| 802.11a | 149     | 5745            | 6           | 17.20               | 52.48              | 22.80            | 190.55          |
| 802.11a | 157     | 5785            | 6           | 17.25               | 53.09              | 22.90            | 194.98          |
| 802.11a | 165     | 5825            | 6           | 17.15               | 51.88              | 23.30            | 213.80          |
|         |         |                 |             |                     |                    |                  |                 |
| 802.11b | 1       | 2412            | 1           | 15.00               | 31.62              | 17.10            | 51.29           |
| 802.11b | 6       | 2437            | 1           | 16.90               | 48.98              | 19.00            | 79.43           |
| 802.11b | 11      | 2462            | 1           | 17.00               | 50.12              | 19.20            | 83.18           |
|         |         |                 |             |                     |                    |                  |                 |
| 802.11g | 1       | 2412            | 6           | 15.35               | 34.28              | 24.10            | 257.04          |
| 802.11g | 6       | 2437            | 6           | 15.30               | 33.88              | 24.00            | 251.19          |
| 802.11g | 11      | 2462            | 6           | 15.20               | 33.11              | 23.90            | 245.47          |

NOTE: The output power measurement is conducted.