

# Intermec Technologies Corporation

## 2610CF

November 30, 2005

Report No. ITRM0104

Report Prepared By



[www.nwemc.com](http://www.nwemc.com)  
1-888-EMI-CERT

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# EMC Test Report



22975 NW Evergreen Parkway  
Suite 400  
Hillsboro, Oregon 97124

**Certificate of Test**  
**Issue Date: November 30, 2005**  
**Intermec Technologies Corporation**  
**Model: 2610CF**

| Emissions                   |                      |                 |                                     |                          |
|-----------------------------|----------------------|-----------------|-------------------------------------|--------------------------|
| Test Description            | Specification        | Test Method     | Pass                                | Fail                     |
| Spurious Radiated Emissions | FCC 15.247(d):2005-9 | ANSI C63.4:2003 | <input checked="" type="checkbox"/> | <input type="checkbox"/> |

| Modifications made to the product            |
|----------------------------------------------|
| See the Modifications section of this report |

**Test Facility**

The measurement facility used to collect the data is located at:

Northwest EMC, Inc.  
22975 NW Evergreen Parkway, Suite 400; Hillsboro, OR 97124  
Phone: (503) 844-4066  
Fax: 844-3826

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada.

**Approved By:**

Greg Kiemel, Director of Engineering

*This report must not be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government of the United States of America.*

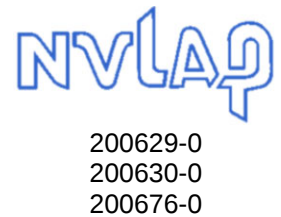
*Product compliance is the responsibility of the client, therefore the tests and equipment modes of operation represented in this report were agreed upon by the client, prior to testing. This Report may only be duplicated in its entirety. The results of this test pertain only to the sample(s) tested, the specific description is noted in each of the individual sections of the test report supporting this certificate of test.*

| Revision Number | Description | Date | Page Number |
|-----------------|-------------|------|-------------|
| 00              | None        |      |             |

**FCC:** Accredited by NVLAP for performance of FCC radio, digital, and ISM device testing. Our Open Area Test Sites, certification chambers, and conducted measurement facilities have been fully described in reports filed with the FCC and accepted by the FCC in letters maintained in our files. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by the FCC as a Telecommunications Certification Body (TCB). This allows Northwest EMC to certify transmitters to FCC specifications in accordance with 47 CFR 2.960 and 2.962.



**NVLAP:** Northwest EMC, Inc. is recognized under the United States Department of Commerce, National Institute of Standards and Technology, and National Voluntary Laboratory Accreditation Program for satisfactory compliance with the requirements of ISO/IEC 17025 for Testing Laboratories. The NVLAP accreditation encompasses Electromagnetic Compatibility Testing in accordance with the European Union EMC Directive 89/336/EEC, ANSI C63.4, MIL-STD 461E, DO-160D and SAE J1113. Additionally, Northwest EMC is accredited by NVLAP to perform radio testing in accordance with the European Union R&TTE Directive 1999/5/EEC, the requirements of FCC, and the RSS radio standards for Industry Canada.



**Industry Canada:** Accredited by NVLAP for performance of Industry Canada RSS and ICES testing. Our Open Area Test Sites and certification chambers comply with RSS 212, Issue 1 (Provisional) and have been filed with Industry Canada and accepted. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by NIST and recognized by Industry Canada as a Certification Body (CB) per the APEC Mutual Recognition Arrangement (MRA). This allows Northwest EMC to certify transmitters to Industry Canada technical requirements.



**CAB:** Designated by NIST and validated by the European Commission as a Conformity Assessment Body (CAB) to conduct tests and approve products to the EMC directive and transmitters to the R&TTE directive, as described in the U.S. - EU Mutual Recognition Agreement.



**TÜV Product Service:** Included in TÜV Product Service Group's Listing of Recognized Laboratories. It qualifies in connection with the TÜV Certification after Recognition of Agent's Testing Program for the product categories and/or standards shown in TÜV's current Listing of CARAT Laboratories, available from TÜV. A certificate was issued to represent that this laboratory continues to meet TÜV's CARAT Program requirements. Certificate No. USA0401C.



**TÜV Rheinland:** Authorized to carryout EMC tests by order and under supervision of TÜV Rheinland. This authorization is based on "Conditions for EMC-Subcontractors" of November 1992.



**NEMKO:** Assessed and accredited by NEMKO (Norwegian testing and certification body) for European emissions and immunity testing. As a result of NEMKO's laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification (Authorization No. ELA 119).



**Technology International:** Assessed in accordance with ISO Guide 25 defining the general international requirements for the competence of calibration and testing laboratories and with ITI assessment criteria LACO196. Based upon that assessment, Interference Technology International, Ltd., has granted approval for specifications implementing the EU Directive on EMC (89/336/EEC and amendments). The scope of the approval was provided on a Schedule of Assessment supplied with the certificate and is available upon request.



**Australia/New Zealand:** The National Association of Testing Authorities (NATA), Australia has been appointed by the ACA as an accreditation body to accredit test laboratories and competent bodies for EMC standards. Accredited test reports or assessments by competent bodies must carry the NATA logo. Test reports made by an overseas laboratory that has been accredited for the relevant standards by an overseas accreditation body that has a Mutual Recognition Agreement (MRA) with NATA are also accepted as technical grounds for product conformity. The report should be endorsed with the respective logo of the accreditation body (NVLAP).



**VCCI:** Accepted as an Associate Member to the VCCI, Acceptance No. 564. Conducted and radiated measurement facilities have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. (*Registration Numbers. - Hillsboro: C-1071 and R-1025, Irvine: C-2094 and R-1943, Newberg: C-1877 and R-1760, Sultan: R-871, C-1784 and R-1761*).



**BSMI:** Northwest EMC has been designated by NIST and validated by C-Taipei (BSMI) as a CAB to conduct tests as described in the APEC Mutual Recognition Agreement. License No.SL2-IN-E-1017.



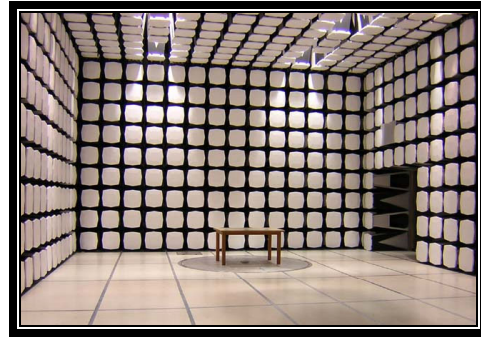
**GOST:** Northwest EMC, Inc. has been assessed and accredited by the Russian Certification bodies Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC, to perform EMC and Hygienic testing for Information Technology Products. As a result of their laboratory assessment, they will accept test results from Northwest EMC, Inc. for product certification



## SCOPE

For details on the Scopes of our Accreditations, please visit:

<http://www.nwemc.com/scope.asp>



**California – Orange County Facility  
Labs OC01 – OC13**

41 Tesla Ave. Irvine, CA 92618  
(888) 364-2378 Fax: (503) 844-3826



**Oregon – Evergreen Facility  
Labs EV01 – EV10**

22975 NW Evergreen Pkwy. Suite 400 Hillsboro, OR 97124  
(503) 844-4066 Fax: (503) 844-3826



**Washington – Sultan Facility  
Labs SU01 – SU07**

14128 339<sup>th</sup> Ave. SE Sultan, WA 98294  
(888) 364-2378

**Party Requesting the Test**

|                                 |                                   |
|---------------------------------|-----------------------------------|
| <b>Company Name:</b>            | Intermec Technologies Corporation |
| <b>Address:</b>                 | 550 Second St. SE                 |
| <b>City, State, Zip:</b>        | Cedar Rapids, IA 52401-2023       |
| <b>Test Requested By:</b>       | Scott Holub                       |
| <b>Model:</b>                   | 2610CF                            |
| <b>First Date of Test:</b>      | November 28, 2005                 |
| <b>Last Date of Test:</b>       | November 28, 2005                 |
| <b>Receipt Date of Samples:</b> | November 28, 2005                 |
| <b>Equipment Design Stage:</b>  | Pre-Production                    |
| <b>Equipment Condition:</b>     | No visual damage.                 |

**Information Provided by the Party Requesting the Test**

|                            |                           |
|----------------------------|---------------------------|
| <b>Clocks/Oscillators:</b> | Not provided.             |
| <b>I/O Ports:</b>          | USB on the docking cradle |

**Functional Description of the EUT (Equipment Under Test):**

The 2610CF is an 802.11(b)/(g) radio module.

**Client Justification for EUT Selection:**

The product is an engineering sample, representative of the final product.

**Client Justification for Test Selection:**

The 2610CF and BTM210 radio modules are installed in Intermec's CN2B2 handheld computer. The radios can transmit simultaneously. The BTM210 is a Bluetooth module that has full modular approval so it does not require EMC testing in the CN2B. The 2610CF has limited modular approval (EHA2610CF) so it needs to be tested in the new host device (Intermec CN2B).

**CONFIGURATION 1 ITRM0104**

| <b>Software/Firmware Running during test</b> |                |
|----------------------------------------------|----------------|
| <b>Description</b>                           | <b>Version</b> |
| <b>Test Utility</b>                          | <b>Ver 0.4</b> |
| <b>Operating System - MS Pocket PC</b>       | <b>4.10.0</b>  |

| <b>EUT</b>              |                                   |                          |                      |
|-------------------------|-----------------------------------|--------------------------|----------------------|
| <b>Description</b>      | <b>Manufacturer</b>               | <b>Model/Part Number</b> | <b>Serial Number</b> |
| EUT - 802.11(b/g) radio | Intermec Technologies Corporation | 2610CF                   | 31890500008          |

| <b>Cables</b>                                                                                                 |               |                   |                |                     |                     |
|---------------------------------------------------------------------------------------------------------------|---------------|-------------------|----------------|---------------------|---------------------|
| <b>Cable Type</b>                                                                                             | <b>Shield</b> | <b>Length (m)</b> | <b>Ferrite</b> | <b>Connection 1</b> | <b>Connection 2</b> |
| USB                                                                                                           | Yes           | 1.5m              | No             | Docking Station     | Unterminated        |
| AC Power Cable                                                                                                | No            | 1.8m              | No             | AC Power Adapter    | AC Mains            |
| DC Leads                                                                                                      | No            | 1.4m              | Yes            | AC Power Adapter    | Docking Station     |
| <b>PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.</b> |               |                   |                |                     |                     |

| Equipment modifications |            |                             |                                  |                                                                     |                                      |
|-------------------------|------------|-----------------------------|----------------------------------|---------------------------------------------------------------------|--------------------------------------|
| Item                    | Date       | Test                        | Modification                     | Note                                                                | Disposition of EUT                   |
| 1                       | 11/28/2005 | Spurious Radiated Emissions | Same configuration as delivered. | No EMI suppression devices were added or modified during this test. | The scheduled testing was completed. |

## MODES OF OPERATION

802.11(B)

802.11(G)

## CHANNELS INVESTIGATED

Low Channel

Mid Channel

High Channel

## POWER SETTINGS INVESTIGATED

120VAC/60Hz

## FREQUENCY RANGE INVESTIGATED

Start Frequency

30MHz

Stop Frequency

26GHz

## SAMPLE CALCULATIONS

Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation

## TEST EQUIPMENT

| Description        | Manufacturer  | Model                | ID  | Last Cal. | Interval |
|--------------------|---------------|----------------------|-----|-----------|----------|
| Antenna, Horn      | EMCO          | 3160-09              | AHG | NCR       | 0        |
| Pre-Amplifier      | Miteq         | AMF-4D-005180-24-10P | APC | 2/17/2005 | 13       |
| Antenna, Horn      | EMCO          | 3160-08              | AHK | NCR       | 0        |
| Pre-Amplifier      | Miteq         | JSD4-18002600-26-8P  | APU | 2/15/2005 | 13       |
| High Pass Filter   | Micro-Tronics | HPM50111             | HFO | 3/9/2005  | 13       |
| Antenna, Horn      | EMCO          | 3115                 | AHC | 8/30/2005 | 12       |
| Pre-Amplifier      | Miteq         | AMF-4D-010100-24-10P | APW | 8/2/2005  | 13       |
| Antenna, Biconilog | EMCO          | 3141                 | AXE | 12/3/2003 | 26       |
| Pre-Amplifier      | Miteq         | AM-1616-1000         | AOL | 8/2/2005  | 13       |
| Spectrum Analyzer  | Agilent       | E4446A               | AAQ | 6/15/2005 | 13       |

## RADIATED EMISSIONS MEASUREMENT UNCERTAINTY

## Value (dB)

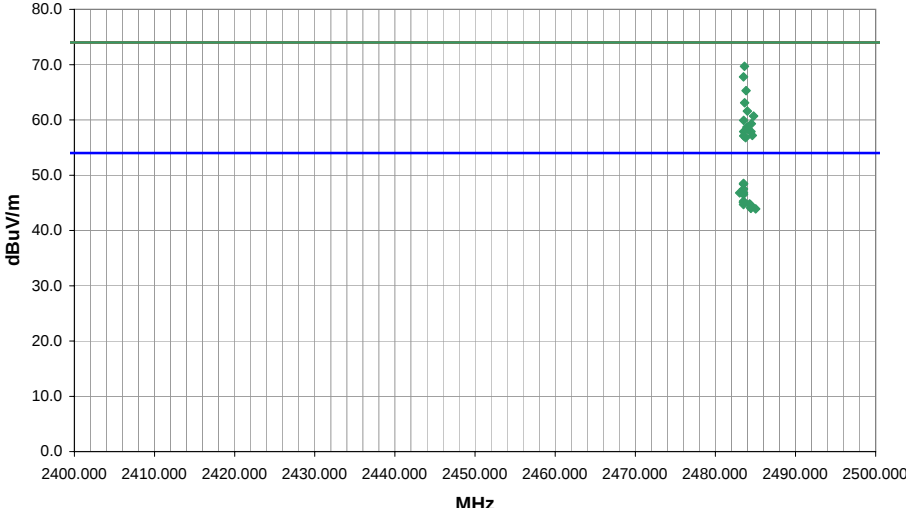
|                                     | Probability Distribution | Biconical Antenna |       | Log Periodic Antenna |       | Dipole Antenna |       |
|-------------------------------------|--------------------------|-------------------|-------|----------------------|-------|----------------|-------|
|                                     |                          | 3m                | 10m   | 3m                   | 10m   | 3m             | 10m   |
| Combined standard uncertainty uc(y) | normal                   | 1.86              | 1.82  | 2.23                 | 1.29  | 1.31           | 1.25  |
|                                     |                          | -1.88             | -1.87 | -1.41                | -1.26 | -1.27          | -1.25 |
| Expanded Uncertainty U              | normal (k=2)             | 3.72              | 3.64  | 4.46                 | 2.59  | 2.61           | 2.49  |
| Level of confidence = 95%           |                          | -3.77             | -3.73 | -2.81                | -2.52 | -2.55          | -2.49 |

## MEASUREMENT BANDWIDTHS

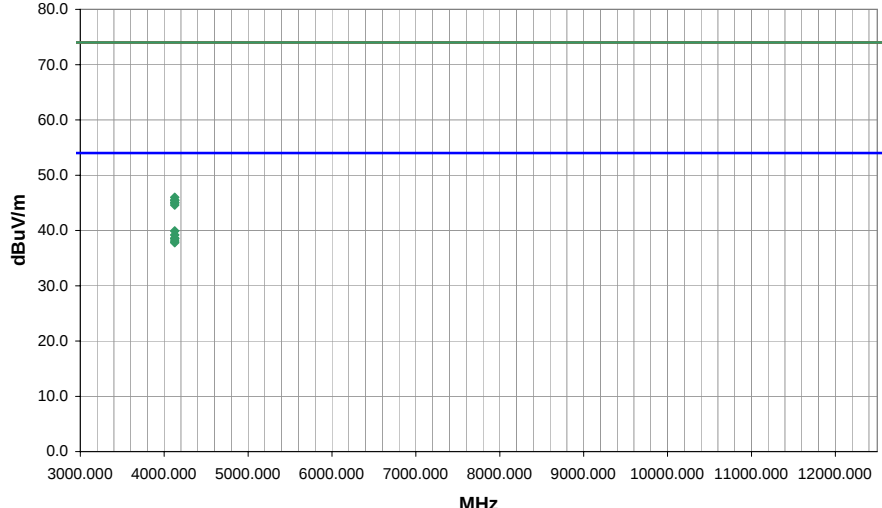
|  | Frequency Range | Peak Data | Quasi-Peak Data | Average Data |
|--|-----------------|-----------|-----------------|--------------|
|  | (MHz)           | (kHz)     | (kHz)           | (kHz)        |
|  | 0.01 - 0.15     | 1.0       | 0.2             | 0.2          |
|  | 0.15 - 30.0     | 10.0      | 9.0             | 9.0          |
|  | 30.0 - 1000     | 100.0     | 120.0           | 120.0        |
|  | Above 1000      | 1000.0    | N/A             | 1000.0       |

Measurements were made using the bandwidths and detectors specified. No video filter was used.

|                                                  |                  |                               |                   |                               |                   |                           |          |          |                          |                 |                    |                        |                                         |
|--------------------------------------------------|------------------|-------------------------------|-------------------|-------------------------------|-------------------|---------------------------|----------|----------|--------------------------|-----------------|--------------------|------------------------|-----------------------------------------|
| NORTHWEST                                        |                  | RADIATED EMISSIONS DATA SHEET |                   | PSA 2005.10.04                |                   |                           |          |          |                          |                 |                    |                        |                                         |
| EMC                                              |                  |                               |                   | EMI 2005.11.18                |                   |                           |          |          |                          |                 |                    |                        |                                         |
| EUT: 2610CF                                      |                  | Work Order: ITRM0104          |                   |                               |                   |                           |          |          |                          |                 |                    |                        |                                         |
| Serial Number: 31890500008                       |                  | Date: 11/28/05                |                   |                               |                   |                           |          |          |                          |                 |                    |                        |                                         |
| Customer: Intermec Technologies Corporation      |                  | Temperature: 20               |                   |                               |                   |                           |          |          |                          |                 |                    |                        |                                         |
| Attendees: Scott Holub                           |                  | Humidity: 31%                 |                   |                               |                   |                           |          |          |                          |                 |                    |                        |                                         |
| Project: None                                    |                  | Barometric Pres.: 30.17       |                   |                               |                   |                           |          |          |                          |                 |                    |                        |                                         |
| Tested by: Rod Peloquin                          |                  | Power: 120VAC/60Hz            |                   | Job Site: EV01                |                   |                           |          |          |                          |                 |                    |                        |                                         |
| TEST SPECIFICATIONS                              |                  | Test Method                   |                   |                               |                   |                           |          |          |                          |                 |                    |                        |                                         |
| FCC 15.247(d) Spurious Radiated Emissions:2005-9 |                  | ANSI C63.4:2003               |                   |                               |                   |                           |          |          |                          |                 |                    |                        |                                         |
| TEST PARAMETERS                                  |                  |                               |                   |                               |                   |                           |          |          |                          |                 |                    |                        |                                         |
| Antenna Height(s) (m)                            |                  | 1 - 4                         |                   | Test Distance (m) 3           |                   |                           |          |          |                          |                 |                    |                        |                                         |
| COMMENTS                                         |                  |                               |                   |                               |                   |                           |          |          |                          |                 |                    |                        |                                         |
| EUT OPERATING MODES                              |                  |                               |                   |                               |                   |                           |          |          |                          |                 |                    |                        |                                         |
| 802.11 mode                                      |                  |                               |                   |                               |                   |                           |          |          |                          |                 |                    |                        |                                         |
| DEVIATIONS FROM TEST STANDARD                    |                  |                               |                   |                               |                   |                           |          |          |                          |                 |                    |                        |                                         |
| No deviations.                                   |                  |                               |                   |                               |                   |                           |          |          |                          |                 |                    |                        |                                         |
| Run #                                            |                  | 1                             |                   | Signature <i>Rod Peloquin</i> |                   |                           |          |          |                          |                 |                    |                        |                                         |
| Configuration #                                  |                  | 1                             |                   |                               |                   |                           |          |          |                          |                 |                    |                        |                                         |
| Results                                          |                  | Pass                          |                   |                               |                   |                           |          |          |                          |                 |                    |                        |                                         |
|                                                  |                  |                               |                   |                               |                   |                           |          |          |                          |                 |                    |                        |                                         |
| Freq (MHz)                                       | Amplitude (dBuV) | Factor (dB)                   | Azimuth (degrees) | Height (meters)               | Distance (meters) | External Attenuation (dB) | Polarity | Detector | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) | Comments                                |
| 2310.204                                         | 33.7             | 0.1                           | 341.0             | 1.1                           | 3.0               | 20.0                      | H-Horn   | AV       | 0.0                      | 53.8            | 54.0               | -0.2                   | 802.11(b) 1Mbps, standalone horizontal  |
| 2311.541                                         | 33.7             | 0.1                           | 308.0             | 1.1                           | 3.0               | 20.0                      | V-Horn   | AV       | 0.0                      | 53.8            | 54.0               | -0.2                   | 802.11(b) 1Mbps, standalone on side     |
| 2309.966                                         | 33.2             | 0.1                           | 131.0             | 1.1                           | 3.0               | 20.0                      | H-Horn   | AV       | 0.0                      | 53.3            | 54.0               | -0.7                   | 802.11(b) 1Mbps, in docking cradle      |
| 2310.549                                         | 32.8             | 0.1                           | 135.0             | 1.1                           | 3.0               | 20.0                      | H-Horn   | AV       | 0.0                      | 52.9            | 54.0               | -1.1                   | 802.11(b) 11 Mbps, in docking cradle    |
| 2312.276                                         | 30.2             | 0.1                           | 344.0             | 1.1                           | 3.0               | 20.0                      | H-Horn   | AV       | 0.0                      | 50.3            | 54.0               | -3.7                   | 802.11(g) 36Mbps, standalone horizontal |
| 2313.430                                         | 30.1             | 0.1                           | 344.0             | 1.1                           | 3.0               | 20.0                      | H-Horn   | AV       | 0.0                      | 50.2            | 54.0               | -3.8                   | 802.11(g) 54Mbps, standalone horizontal |
| 2310.972                                         | 29.6             | 0.1                           | 342.0             | 1.1                           | 3.0               | 20.0                      | H-Horn   | AV       | 0.0                      | 49.7            | 54.0               | -4.3                   | 802.11(g) 6Mbps, standalone horizontal  |
| 2310.008                                         | 28.3             | 0.1                           | 66.0              | 1.0                           | 3.0               | 20.0                      | V-Horn   | AV       | 0.0                      | 48.4            | 54.0               | -5.6                   | 802.11(b) 11 Mbps, in docking cradle    |
| 2311.941                                         | 42.9             | 0.1                           | 344.0             | 1.1                           | 3.0               | 20.0                      | H-Horn   | PK       | 0.0                      | 63.0            | 74.0               | -11.0                  | 802.11(g) 36Mbps, standalone horizontal |
| 2313.576                                         | 42.4             | 0.1                           | 344.0             | 1.1                           | 3.0               | 20.0                      | H-Horn   | PK       | 0.0                      | 62.5            | 74.0               | -11.5                  | 802.11(g) 54Mbps, standalone horizontal |
| 2310.002                                         | 42.1             | 0.1                           | 341.0             | 1.1                           | 3.0               | 20.0                      | H-Horn   | PK       | 0.0                      | 62.2            | 74.0               | -11.8                  | 802.11(b) 1Mbps, standalone horizontal  |
| 2310.007                                         | 42.0             | 0.1                           | 131.0             | 1.1                           | 3.0               | 20.0                      | H-Horn   | PK       | 0.0                      | 62.1            | 74.0               | -11.9                  | 802.11(b) 1Mbps, in docking cradle      |
| 2311.146                                         | 41.7             | 0.1                           | 135.0             | 1.1                           | 3.0               | 20.0                      | H-Horn   | PK       | 0.0                      | 61.8            | 74.0               | -12.2                  | 802.11(b) 11 Mbps, in docking cradle    |
| 2311.297                                         | 41.5             | 0.1                           | 342.0             | 1.1                           | 3.0               | 20.0                      | H-Horn   | PK       | 0.0                      | 61.6            | 74.0               | -12.4                  | 802.11(g) 6Mbps, standalone horizontal  |
| 2310.859                                         | 41.0             | 0.1                           | 66.0              | 1.0                           | 3.0               | 20.0                      | V-Horn   | PK       | 0.0                      | 61.1            | 74.0               | -12.9                  | 802.11(b) 11 Mbps, in docking cradle    |
| 2311.766                                         | 40.9             | 0.1                           | 308.0             | 1.1                           | 3.0               | 20.0                      | V-Horn   | PK       | 0.0                      | 61.0            | 74.0               | -13.0                  | 802.11(b) 1Mbps, standalone on side     |

|                                                                                     |                         |                                      |                                                                                                |                                  |                          |                                  |                 |                 |                                 |                        |                           |                               |                                         |
|-------------------------------------------------------------------------------------|-------------------------|--------------------------------------|------------------------------------------------------------------------------------------------|----------------------------------|--------------------------|----------------------------------|-----------------|-----------------|---------------------------------|------------------------|---------------------------|-------------------------------|-----------------------------------------|
| NORTHWEST<br><b>EMC</b>                                                             |                         | <b>RADIATED EMISSIONS DATA SHEET</b> |                                                                                                | PSA 2005.10.04<br>EMI 2005.11.18 |                          |                                  |                 |                 |                                 |                        |                           |                               |                                         |
| EUT: 2610CF                                                                         |                         |                                      | Work Order: ITRM0104                                                                           |                                  |                          |                                  |                 |                 |                                 |                        |                           |                               |                                         |
| Serial Number: 31890500008                                                          |                         |                                      | Date: 11/28/05                                                                                 |                                  |                          |                                  |                 |                 |                                 |                        |                           |                               |                                         |
| Customer: Intermec Technologies Corporation                                         |                         |                                      | Temperature: 21                                                                                |                                  |                          |                                  |                 |                 |                                 |                        |                           |                               |                                         |
| Attendees: Scott Holub                                                              |                         |                                      | Humidity: 29%                                                                                  |                                  |                          |                                  |                 |                 |                                 |                        |                           |                               |                                         |
| Project: None                                                                       |                         |                                      | Barometric Pres.: 30.17                                                                        |                                  |                          |                                  |                 |                 |                                 |                        |                           |                               |                                         |
| Tested by: Rod Peloquin                                                             |                         | Power: 120VAC/60Hz                   |                                                                                                | Job Site: EV01                   |                          |                                  |                 |                 |                                 |                        |                           |                               |                                         |
| TEST SPECIFICATIONS                                                                 |                         |                                      | Test Method                                                                                    |                                  |                          |                                  |                 |                 |                                 |                        |                           |                               |                                         |
| FCC 15.247(d) Spurious Radiated Emissions:2005-9                                    |                         |                                      | ANSI C63.4:2003                                                                                |                                  |                          |                                  |                 |                 |                                 |                        |                           |                               |                                         |
| <b>TEST PARAMETERS</b>                                                              |                         |                                      |                                                                                                |                                  |                          |                                  |                 |                 |                                 |                        |                           |                               |                                         |
| Antenna Height(s) (m)                                                               |                         | 1 - 4                                |                                                                                                | Test Distance (m) 3              |                          |                                  |                 |                 |                                 |                        |                           |                               |                                         |
| <b>COMMENTS</b>                                                                     |                         |                                      |                                                                                                |                                  |                          |                                  |                 |                 |                                 |                        |                           |                               |                                         |
| <br>                                                                                |                         |                                      |                                                                                                |                                  |                          |                                  |                 |                 |                                 |                        |                           |                               |                                         |
| <b>EUT OPERATING MODES</b>                                                          |                         |                                      |                                                                                                |                                  |                          |                                  |                 |                 |                                 |                        |                           |                               |                                         |
| 802.11 mode                                                                         |                         |                                      |                                                                                                |                                  |                          |                                  |                 |                 |                                 |                        |                           |                               |                                         |
| <b>DEVIATIONS FROM TEST STANDARD</b>                                                |                         |                                      |                                                                                                |                                  |                          |                                  |                 |                 |                                 |                        |                           |                               |                                         |
| No deviations.                                                                      |                         |                                      |                                                                                                |                                  |                          |                                  |                 |                 |                                 |                        |                           |                               |                                         |
| Run #                                                                               | 2                       |                                      | <br>Signature |                                  |                          |                                  |                 |                 |                                 |                        |                           |                               |                                         |
| Configuration #                                                                     | 1                       |                                      |                                                                                                |                                  |                          |                                  |                 |                 |                                 |                        |                           |                               |                                         |
| Results                                                                             | Pass                    |                                      |                                                                                                |                                  |                          |                                  |                 |                 |                                 |                        |                           |                               |                                         |
|  |                         |                                      |                                                                                                |                                  |                          |                                  |                 |                 |                                 |                        |                           |                               |                                         |
| <b>Freq (MHz)</b>                                                                   | <b>Amplitude (dBuV)</b> | <b>Factor (dB)</b>                   | <b>Azimuth (degrees)</b>                                                                       | <b>Height (meters)</b>           | <b>Distance (meters)</b> | <b>External Attenuation (dB)</b> | <b>Polarity</b> | <b>Detector</b> | <b>Distance Adjustment (dB)</b> | <b>Adjusted dBuV/m</b> | <b>Spec. Limit dBuV/m</b> | <b>Compared to Spec. (dB)</b> | <b>Comments</b>                         |
| 2483.622                                                                            | 49.2                    | 0.5                                  | 160.0                                                                                          | 1.0                              | 3.0                      | 20.0                             | H-Horn          | PK              | 0.0                             | 69.7                   | 74.0                      | -4.3                          | 802.11(g) 6Mbps, standalone horizontal  |
| 2483.502                                                                            | 28.0                    | 0.5                                  | 162.0                                                                                          | 1.0                              | 3.0                      | 20.0                             | H-Horn          | AV              | 0.0                             | 48.5                   | 54.0                      | -5.5                          | 802.11(g) 6Mbps, standalone horizontal  |
| 2483.500                                                                            | 27.9                    | 0.5                                  | 168.0                                                                                          | 1.0                              | 3.0                      | 20.0                             | H-Horn          | AV              | 0.0                             | 48.4                   | 54.0                      | -5.6                          | 802.11(b) 1Mbps, standalone horizontal  |
| 2483.511                                                                            | 47.3                    | 0.5                                  | 158.0                                                                                          | 1.1                              | 3.0                      | 20.0                             | H-Horn          | PK              | 0.0                             | 67.8                   | 74.0                      | -6.2                          | 802.11(g) 6Mbps, in docking station     |
| 2483.500                                                                            | 27.0                    | 0.5                                  | 161.0                                                                                          | 1.0                              | 3.0                      | 20.0                             | H-Horn          | AV              | 0.0                             | 47.5                   | 54.0                      | -6.5                          | 802.11(b) 11Mbps, standalone horizontal |
| 2483.500                                                                            | 26.3                    | 0.5                                  | 161.0                                                                                          | 1.1                              | 3.0                      | 20.0                             | H-Horn          | AV              | 0.0                             | 46.8                   | 54.0                      | -7.2                          | 802.11(g) 36Mbps, in docking station    |
| 2483.030                                                                            | 26.3                    | 0.5                                  | 158.0                                                                                          | 1.1                              | 3.0                      | 20.0                             | H-Horn          | AV              | 0.0                             | 46.8                   | 54.0                      | -7.2                          | 802.11(g) 6Mbps, in docking station     |
| 2483.500                                                                            | 26.0                    | 0.5                                  | 137.0                                                                                          | 1.1                              | 3.0                      | 20.0                             | H-Horn          | AV              | 0.0                             | 46.5                   | 54.0                      | -7.5                          | 802.11(g) 54Mbps, in docking station    |
| 2483.827                                                                            | 44.8                    | 0.5                                  | 161.0                                                                                          | 1.1                              | 3.0                      | 20.0                             | H-Horn          | PK              | 0.0                             | 65.3                   | 74.0                      | -8.7                          | 802.11(g) 36Mbps, in docking station    |
| 2483.500                                                                            | 24.8                    | 0.5                                  | 91.0                                                                                           | 1.6                              | 3.0                      | 20.0                             | V-Horn          | AV              | 0.0                             | 45.3                   | 54.0                      | -8.7                          | 802.11(g) 36Mbps, in docking station    |
| 2483.500                                                                            | 24.6                    | 0.5                                  | 105.0                                                                                          | 1.6                              | 3.0                      | 20.0                             | V-Horn          | AV              | 0.0                             | 45.1                   | 54.0                      | -8.9                          | 802.11(g) 6Mbps, in docking station     |
| 2483.500                                                                            | 24.6                    | 0.5                                  | 90.0                                                                                           | 1.6                              | 3.0                      | 20.0                             | V-Horn          | AV              | 0.0                             | 45.1                   | 54.0                      | -8.9                          | 802.11(g) 54Mbps, in docking station    |
| 2484.261                                                                            | 24.3                    | 0.5                                  | 349.0                                                                                          | 1.6                              | 3.0                      | 20.0                             | V-Horn          | AV              | 0.0                             | 44.8                   | 54.0                      | -9.2                          | 802.11(b) 1Mbps, standalone on side     |
| 2483.500                                                                            | 24.2                    | 0.5                                  | 110.0                                                                                          | 1.6                              | 3.0                      | 20.0                             | V-Horn          | AV              | 0.0                             | 44.7                   | 54.0                      | -9.3                          | 802.11(b) 1Mbps, in docking station     |
| 2484.388                                                                            | 24.1                    | 0.5                                  | 140.0                                                                                          | 1.1                              | 3.0                      | 20.0                             | H-Horn          | AV              | 0.0                             | 44.6                   | 54.0                      | -9.4                          | 802.11(b) 11Mbps, in docking station    |
| 2484.404                                                                            | 23.7                    | 0.5                                  | 107.0                                                                                          | 1.6                              | 3.0                      | 20.0                             | V-Horn          | AV              | 0.0                             | 44.2                   | 54.0                      | -9.8                          | 802.11(b) 11Mbps, in docking station    |
| 2484.432                                                                            | 23.5                    | 0.5                                  | 324.0                                                                                          | 1.1                              | 3.0                      | 20.0                             | H-Horn          | AV              | 0.0                             | 44.0                   | 54.0                      | -10.0                         | 802.11(b) 1Mbps, in docking station     |
| 2485.025                                                                            | 23.4                    | 0.5                                  | 24.0                                                                                           | 3.9                              | 3.0                      | 20.0                             | H-Horn          | AV              | 0.0                             | 43.9                   | 54.0                      | -10.1                         | 802.11(b) 1Mbps, standalone on side     |
| 2483.649                                                                            | 42.6                    | 0.5                                  | 137.0                                                                                          | 1.1                              | 3.0                      | 20.0                             | H-Horn          | PK              | 0.0                             | 63.1                   | 74.0                      | -10.9                         | 802.11(g) 54Mbps, in docking station    |
| 2483.985                                                                            | 41.1                    | 0.5                                  | 105.0                                                                                          | 1.6                              | 3.0                      | 20.0                             | V-Horn          | PK              | 0.0                             | 61.6                   | 74.0                      | -12.4                         | 802.11(g) 6Mbps, in docking station     |

|                                                  |                  |                         |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
|--------------------------------------------------|------------------|-------------------------|-------------------|-----------------|-------------------|---------------------------|----------|----------|--------------------------|-----------------|--------------------|------------------------|-------------------------------------------|
| NORTHWEST                                        |                  | PSA 2005.10.04          |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
| EMI 2005.11.18                                   |                  |                         |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
| EMC RADIATED EMISSIONS DATA SHEET                |                  |                         |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
| EUT: 2610CF                                      |                  | Work Order: ITRM0104    |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
| Serial Number: 31890500008                       |                  | Date: 11/28/05          |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
| Customer: Intermec Technologies Corporation      |                  | Temperature: 21         |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
| Attendees: Scott Holub                           |                  | Humidity: 29%           |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
| Project: None                                    |                  | Barometric Pres.: 30.17 |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
| Tested by: Rod Peloquin                          |                  | Power: 120VAC/60Hz      |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
|                                                  |                  | Job Site: EV01          |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
| TEST SPECIFICATIONS                              |                  | Test Method             |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
| FCC 15.247(d) Spurious Radiated Emissions:2005-9 |                  | ANSI C63.4:2003         |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
| TEST PARAMETERS                                  |                  |                         |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
| Antenna Height(s) (m)                            |                  | Test Distance (m)       |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
| 1 - 4                                            |                  | 3                       |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
| COMMENTS                                         |                  |                         |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
|                                                  |                  |                         |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
| EUT OPERATING MODES                              |                  |                         |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
| High channel, 802.11mode                         |                  |                         |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
| DEVIATIONS FROM TEST STANDARD                    |                  |                         |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
| No deviations.                                   |                  |                         |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
| Run #                                            |                  | 3                       |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
| Configuration #                                  |                  | 1                       |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
| Results                                          |                  | Pass                    |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
|                                                  |                  | Signature               |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
|                                                  |                  |                         |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                           |
| Freq (MHz)                                       | Amplitude (dBuV) | Factor (dB)             | Azimuth (degrees) | Height (meters) | Distance (meters) | External Attenuation (dB) | Polarity | Detector | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) | Comments                                  |
| 4176.015                                         | 35.5             | 5.7                     | 178.0             | 1.3             | 3.0               | 0.0                       | H-Horn   | AV       | 0.0                      | 41.2            | 54.0               | -12.8                  | 802.11(b), 11 Mbps                        |
| 4176.008                                         | 34.6             | 5.7                     | 175.0             | 1.2             | 3.0               | 0.0                       | V-Horn   | AV       | 0.0                      | 40.3            | 54.0               | -13.7                  | 802.11(b), 11 Mbps, standalone horizontal |
| 4176.044                                         | 34.6             | 5.7                     | 178.0             | 1.2             | 3.0               | 0.0                       | V-Horn   | AV       | 0.0                      | 40.3            | 54.0               | -13.7                  | 802.11(g), 54 Mbps, standalone horizontal |
| 4176.047                                         | 34.5             | 5.7                     | 176.0             | 1.2             | 3.0               | 0.0                       | V-Horn   | AV       | 0.0                      | 40.2            | 54.0               | -13.8                  | 802.11(b), 1 Mbps, standalone horizontal  |
| 4176.050                                         | 34.3             | 5.7                     | 179.0             | 1.2             | 3.0               | 0.0                       | V-Horn   | AV       | 0.0                      | 40.0            | 54.0               | -14.0                  | 802.11(g), 36 Mbps, standalone horizontal |
| 4176.021                                         | 33.8             | 5.7                     | 177.0             | 1.2             | 3.0               | 0.0                       | V-Horn   | AV       | 0.0                      | 39.5            | 54.0               | -14.5                  | 802.11(g), 6 Mbps, standalone horizontal  |
| 4176.033                                         | 33.2             | 5.7                     | 191.0             | 1.5             | 3.0               | 0.0                       | H-Horn   | AV       | 0.0                      | 38.9            | 54.0               | -15.1                  | 802.11(g), 6 Mbps, standalone horizontal  |
| 4175.968                                         | 33.2             | 5.7                     | 192.0             | 1.5             | 3.0               | 0.0                       | H-Horn   | AV       | 0.0                      | 38.9            | 54.0               | -15.1                  | 802.11(b), 1 Mbps, standalone horizontal  |
| 4175.973                                         | 32.9             | 5.7                     | 192.0             | 1.5             | 3.0               | 0.0                       | H-Horn   | AV       | 0.0                      | 38.6            | 54.0               | -15.4                  | 802.11(g), 36 Mbps, standalone horizontal |
| 4176.008                                         | 32.8             | 5.7                     | 195.0             | 1.5             | 3.0               | 0.0                       | H-Horn   | AV       | 0.0                      | 38.5            | 54.0               | -15.5                  | 802.11(g), 54 Mbps, standalone horizontal |
| 4175.985                                         | 32.7             | 5.7                     | 189.0             | 1.5             | 3.0               | 0.0                       | H-Horn   | AV       | 0.0                      | 38.4            | 54.0               | -15.6                  | 802.11(b), 11 Mbps, standalone horizontal |
| 4176.019                                         | 31.9             | 5.7                     | 335.0             | 1.2             | 3.0               | 0.0                       | V-Horn   | AV       | 0.0                      | 37.6            | 54.0               | -16.4                  | 802.11(b), 11 Mbps                        |
| 4175.986                                         | 41.2             | 5.7                     | 178.0             | 1.3             | 3.0               | 0.0                       | H-Horn   | PK       | 0.0                      | 46.9            | 74.0               | -27.1                  | 802.11(b), 11 Mbps                        |
| 4176.099                                         | 41.1             | 5.7                     | 178.0             | 1.2             | 3.0               | 0.0                       | V-Horn   | PK       | 0.0                      | 46.8            | 74.0               | -27.2                  | 802.11(g), 54 Mbps, standalone horizontal |
| 4175.950                                         | 40.9             | 5.7                     | 176.0             | 1.2             | 3.0               | 0.0                       | V-Horn   | PK       | 0.0                      | 46.6            | 74.0               | -27.4                  | 802.11(b), 1 Mbps, standalone horizontal  |
| 4176.056                                         | 40.5             | 5.7                     | 177.0             | 1.2             | 3.0               | 0.0                       | V-Horn   | PK       | 0.0                      | 46.2            | 74.0               | -27.8                  | 802.11(g), 6 Mbps, standalone horizontal  |
| 4175.957                                         | 40.4             | 5.7                     | 192.0             | 1.5             | 3.0               | 0.0                       | H-Horn   | PK       | 0.0                      | 46.1            | 74.0               | -27.9                  | 802.11(b), 1 Mbps, standalone horizontal  |
| 4176.050                                         | 40.4             | 5.7                     | 179.0             | 1.2             | 3.0               | 0.0                       | V-Horn   | PK       | 0.0                      | 46.1            | 74.0               | -27.9                  | 802.11(g), 36 Mbps, standalone horizontal |
| 4176.031                                         | 40.3             | 5.7                     | 175.0             | 1.2             | 3.0               | 0.0                       | V-Horn   | PK       | 0.0                      | 46.0            | 74.0               | -28.0                  | 802.11(b), 11 Mbps, standalone horizontal |
| 4175.938                                         | 40.2             | 5.7                     | 335.0             | 1.2             | 3.0               | 0.0                       | V-Horn   | PK       | 0.0                      | 45.9            | 74.0               | -28.1                  | 802.11(b), 11 Mbps                        |

| NORTHWEST                                                                           |                  | EMI 2005.11.18                                                                    |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                          |
|-------------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------------------|-------------------|-----------------|-------------------|---------------------------|----------|----------|--------------------------|-----------------|--------------------|------------------------|------------------------------------------|
| EMC                                                                                 |                  | RADIATED EMISSIONS DATA SHEET                                                     |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                          |
| EUT: 2610CF                                                                         |                  | Work Order: ITRM0104                                                              |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                          |
| Serial Number: 31890500008                                                          |                  | Date: 11/28/05                                                                    |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                          |
| Customer: Intermec Technologies Corporation                                         |                  | Temperature: 21                                                                   |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                          |
| Attendees: Scott Holub                                                              |                  | Humidity: 29%                                                                     |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                          |
| Project: None                                                                       |                  | Barometric Pres.: 30.17                                                           |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                          |
| Tested by: Rod Peloquin                                                             |                  | Power: 120VAC/60Hz                                                                |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                          |
|                                                                                     |                  | Job Site: EV01                                                                    |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                          |
| TEST SPECIFICATIONS                                                                 |                  | Test Method                                                                       |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                          |
| FCC 15.247(d) Spurious Radiated Emissions:2005-9                                    |                  | ANSI C63.4:2003                                                                   |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                          |
| TEST PARAMETERS                                                                     |                  |                                                                                   |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                          |
| Antenna Height(s) (m)                                                               | 1 - 4            | Test Distance (m)                                                                 | 3                 |                 |                   |                           |          |          |                          |                 |                    |                        |                                          |
| COMMENTS                                                                            |                  |                                                                                   |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                          |
| EUT OPERATING MODES                                                                 |                  |                                                                                   |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                          |
| Mid channel, 802.11 mode                                                            |                  |                                                                                   |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                          |
| DEVIATIONS FROM TEST STANDARD                                                       |                  |                                                                                   |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                          |
| No deviations.                                                                      |                  |                                                                                   |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                          |
| Run #                                                                               | 4                |  |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                          |
| Configuration #                                                                     | 1                |                                                                                   |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                          |
| Results                                                                             | Pass             |                                                                                   |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                          |
|  |                  |                                                                                   |                   |                 |                   |                           |          |          |                          |                 |                    |                        |                                          |
| Freq (MHz)                                                                          | Amplitude (dBuV) | Factor (dB)                                                                       | Azimuth (degrees) | Height (meters) | Distance (meters) | External Attenuation (dB) | Polarity | Detector | Distance Adjustment (dB) | Adjusted dBuV/m | Spec. Limit dBuV/m | Compared to Spec. (dB) | Comments                                 |
| 4126.028                                                                            | 34.2             | 5.7                                                                               | 171.0             | 1.2             | 3.0               | 0.0                       | V-Horn   | AV       | 0.0                      | 39.9            | 54.0               | -14.1                  | 802.11(b) 1 Mbps, standalone horizontal  |
| 4126.043                                                                            | 33.5             | 5.7                                                                               | 193.0             | 1.3             | 3.0               | 0.0                       | H-Horn   | AV       | 0.0                      | 39.2            | 54.0               | -14.8                  | 802.11(b) 1 Mbps, standalone horizontal  |
| 4126.049                                                                            | 32.9             | 5.7                                                                               | 179.0             | 1.4             | 3.0               | 0.0                       | V-Horn   | AV       | 0.0                      | 38.6            | 54.0               | -15.4                  | 802.11(b) 11 Mbps, standalone horizontal |
| 4126.050                                                                            | 32.8             | 5.7                                                                               | 142.0             | 1.3             | 3.0               | 0.0                       | H-Horn   | AV       | 0.0                      | 38.5            | 54.0               | -15.5                  | 802.11(g) 6 Mbps, standalone horizontal  |
| 4126.056                                                                            | 32.4             | 5.7                                                                               | 144.0             | 1.3             | 3.0               | 0.0                       | H-Horn   | AV       | 0.0                      | 38.1            | 54.0               | -15.9                  | 802.11(b) 11 Mbps, standalone horizontal |
| 4126.038                                                                            | 32.1             | 5.7                                                                               | 175.0             | 1.4             | 3.0               | 0.0                       | V-Horn   | AV       | 0.0                      | 37.8            | 54.0               | -16.2                  | 802.11(g) 6 Mbps, standalone horizontal  |
| 4126.069                                                                            | 40.3             | 5.7                                                                               | 171.0             | 1.2             | 3.0               | 0.0                       | V-Horn   | PK       | 0.0                      | 46.0            | 74.0               | -28.0                  | 802.11(b) 1 Mbps, standalone horizontal  |
| 4125.892                                                                            | 39.8             | 5.7                                                                               | 179.0             | 1.4             | 3.0               | 0.0                       | V-Horn   | PK       | 0.0                      | 45.5            | 74.0               | -28.5                  | 802.11(b) 11 Mbps, standalone horizontal |
| 4125.985                                                                            | 39.7             | 5.7                                                                               | 193.0             | 1.3             | 3.0               | 0.0                       | H-Horn   | PK       | 0.0                      | 45.4            | 74.0               | -28.6                  | 802.11(b) 1 Mbps, standalone horizontal  |
| 4126.030                                                                            | 39.3             | 5.7                                                                               | 175.0             | 1.4             | 3.0               | 0.0                       | V-Horn   | PK       | 0.0                      | 45.0            | 74.0               | -29.0                  | 802.11(g) 6 Mbps, standalone horizontal  |
| 4126.093                                                                            | 39.3             | 5.7                                                                               | 142.0             | 1.3             | 3.0               | 0.0                       | H-Horn   | PK       | 0.0                      | 45.0            | 74.0               | -29.0                  | 802.11(g) 6 Mbps, standalone horizontal  |
| 4126.023                                                                            | 38.9             | 5.7                                                                               | 144.0             | 1.3             | 3.0               | 0.0                       | H-Horn   | PK       | 0.0                      | 44.6            | 74.0               | -29.4                  | 802.11(b) 11 Mbps, standalone horizontal |

|                                                                                                           |  |                                                  |  |
|-----------------------------------------------------------------------------------------------------------|--|--------------------------------------------------|--|
| NORTHWEST                                                                                                 |  | PSA 2005.10.04                                   |  |
| EMI 2005.11.18                                                                                            |  |                                                  |  |
| EMC RADIATED EMISSIONS DATA SHEET                                                                         |  |                                                  |  |
| EUT: 2610CF                                                                                               |  | Work Order: ITRM0104                             |  |
| Serial Number: 31890500008                                                                                |  | Date: 11/28/05                                   |  |
| Customer: Intermec Technologies Corporation                                                               |  | Temperature: 21                                  |  |
| Attendees: Scott Holub                                                                                    |  | Humidity: 29%                                    |  |
| Project: None                                                                                             |  | Barometric Pres.: 30.17                          |  |
| Tested by: Rod Peloquin                                                                                   |  | Power: 120VAC/60Hz                               |  |
| Test Method                                                                                               |  | Job Site: EV01                                   |  |
| TEST SPECIFICATIONS                                                                                       |  | FCC 15.247(d) Spurious Radiated Emissions:2005-9 |  |
| ANSI C63.4:2003                                                                                           |  |                                                  |  |
| TEST PARAMETERS                                                                                           |  |                                                  |  |
| Antenna Height(s) (m)                                                                                     |  | 1 - 4                                            |  |
| Test Distance (m)                                                                                         |  | 3                                                |  |
| COMMENTS                                                                                                  |  |                                                  |  |
| EUT OPERATING MODES                                                                                       |  |                                                  |  |
| Low channel, 802.11 mode                                                                                  |  |                                                  |  |
| DEVIATIONS FROM TEST STANDARD                                                                             |  |                                                  |  |
| No deviations.                                                                                            |  |                                                  |  |
| Run #                                                                                                     |  | 5                                                |  |
| Configuration #                                                                                           |  | 1                                                |  |
| Results                                                                                                   |  | Pass                                             |  |
| Signature                                                                                                 |  |                                                  |  |
|                                                                                                           |  |                                                  |  |
| MHz                                                                                                       |  |                                                  |  |
| dBuV/m                                                                                                    |  |                                                  |  |
| Freq (MHz)                                                                                                |  |                                                  |  |
| Amplitude (dBuV)                                                                                          |  |                                                  |  |
| Factor (dB)                                                                                               |  |                                                  |  |
| Azimuth (degrees)                                                                                         |  |                                                  |  |
| Height (meters)                                                                                           |  |                                                  |  |
| Distance (meters)                                                                                         |  |                                                  |  |
| External Attenuation (dB)                                                                                 |  |                                                  |  |
| Polarity                                                                                                  |  |                                                  |  |
| Detector                                                                                                  |  |                                                  |  |
| Distance Adjustment (dB)                                                                                  |  |                                                  |  |
| Adjusted dBuV/m                                                                                           |  |                                                  |  |
| Spec. Limit dBuV/m                                                                                        |  |                                                  |  |
| Compared to Spec. (dB)                                                                                    |  |                                                  |  |
| Comments                                                                                                  |  |                                                  |  |
| 4076.033 33.4 5.8 177.0 1.4 3.0 0.0 V-Horn AV 0.0 39.2 54.0 -14.8 802.11(b) 11Mbps, standalone horizontal |  |                                                  |  |
| 4075.987 31.8 5.8 121.0 1.2 3.0 0.0 V-Horn AV 0.0 37.6 54.0 -16.4 802.11(g) 6Mbps, standalone horizontal  |  |                                                  |  |
| 4076.036 31.8 5.8 198.0 1.4 3.0 0.0 H-Horn AV 0.0 37.6 54.0 -16.4 802.11(g) 6Mbps, standalone horizontal  |  |                                                  |  |
| 4076.037 31.6 5.8 141.0 1.3 3.0 0.0 H-Horn AV 0.0 37.4 54.0 -16.6 802.11(b) 11Mbps, standalone horizontal |  |                                                  |  |
| 4076.021 30.9 5.8 120.0 1.2 3.0 0.0 V-Horn AV 0.0 36.7 54.0 -17.3 802.11(b) 1 Mbps, standalone horizontal |  |                                                  |  |
| 4076.040 30.5 5.8 198.0 1.3 3.0 0.0 H-Horn AV 0.0 36.3 54.0 -17.7 802.11(b) 1 Mbps, standalone horizontal |  |                                                  |  |
| 4075.808 39.5 5.8 177.0 1.4 3.0 0.0 V-Horn PK 0.0 45.3 74.0 -28.7 802.11(b) 11Mbps, standalone horizontal |  |                                                  |  |
| 4076.063 39.0 5.8 141.0 1.3 3.0 0.0 H-Horn PK 0.0 44.8 74.0 -29.2 802.11(b) 11Mbps, standalone horizontal |  |                                                  |  |
| 4076.065 38.8 5.8 121.0 1.2 3.0 0.0 V-Horn PK 0.0 44.6 74.0 -29.4 802.11(g) 6Mbps, standalone horizontal  |  |                                                  |  |
| 4075.946 38.5 5.8 198.0 1.4 3.0 0.0 H-Horn PK 0.0 44.3 74.0 -29.7 802.11(g) 6Mbps, standalone horizontal  |  |                                                  |  |
| 4076.005 38.4 5.8 120.0 1.2 3.0 0.0 V-Horn PK 0.0 44.2 74.0 -29.8 802.11(b) 1 Mbps, standalone horizontal |  |                                                  |  |
| 4076.043 38.0 5.8 198.0 1.3 3.0 0.0 H-Horn PK 0.0 43.8 74.0 -30.2 802.11(b) 1 Mbps, standalone horizontal |  |                                                  |  |

