

Intermec Technologies Corporation

DRCB

January 15, 2008

Report No. INMC0415.1

Report Prepared By



www.nwemc.com
1-888-EMI-CERT

© 2008 Northwest EMC, Inc

EMC Test Report

Certificate of Test
Issue Date: January 15, 2008
Intermec Technologies Corporation
Model: DRCB

Emissions			
Test Description	Specification	Test Method	Pass/Fail
Spurious Radiated Emissions	FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074	Pass

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

Test Facility

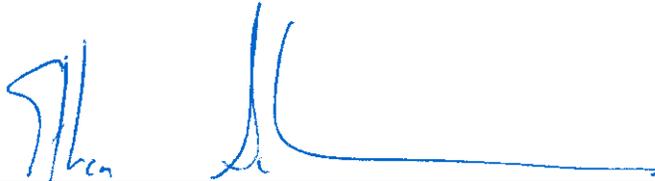
The measurement facility used to collect the data is located at:

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:



Ethan Schoonover, Sultan Lab Manager



NVLAP Lab Code: 200630-0

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 accredited 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 2004/108/EC, and ANSI C63.4. 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.



NVLAP LAB CODE 200629-0
 NVLAP LAB CODE 200630-0
 NVLAP LAB CODE 200676-0
 NVLAP LAB CODE 200761-0

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. USA0604C.



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).



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, R-1025, C-2687, T-289, and R-2318, Irvine: R-1943, C-2766, and T-298, Sultan: R-871, C-1784, and T-294.*)



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



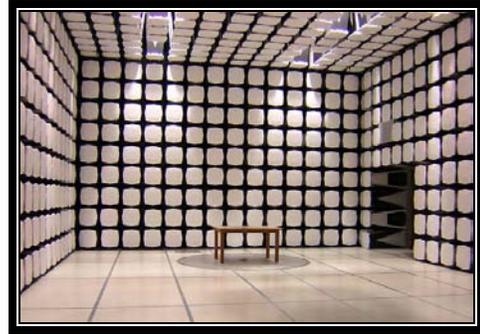
MIC: Northwest EMC, Inc is a CAB designated by MRA partners and recognized by Korea. (*Assigned Lab Numbers: Hillsboro: US0017, Irvine: US0158, Sultan: US0157*)



SCOPE

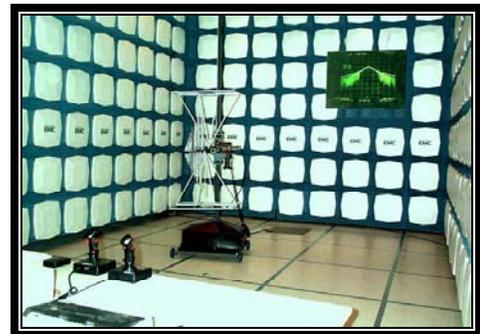
For details on the Scopes of our Accreditations, please visit:

<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 – EV11**

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



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

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

Party Requesting the Test

Company Name:	Intermec Technologies Corporation
Address:	6001 36th Avenue West
City, State, Zip:	Everett, WA 98203-1264
Test Requested By:	Sean MacKellar
Model:	DRCB
First Date of Test:	December 17, 2007
Last Date of Test:	December 19, 2007
Receipt Date of Samples:	December 11, 2007
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test**Functional Description of the EUT (Equipment Under Test):**

The EUT is a previously certified 802.11 b/g radio module that has a new PA.

Testing Objective:

These tests were compliance of the radio to the spurious radiated emissions requirements of FCC 15.247.

CONFIGURATION 1 INMC0415**Software/Firmware Running during test**

Description	Version
DOS batch files	None

EUT

Description	Manufacturer	Model/Part Number	Serial Number
EUT - 802.11(b)/(g) radio	Intermec Technologies Corporation	DRCB	R07E64800017C01

Peripherals in test setup boundary

Description	Manufacturer	Model/Part Number	Serial Number
PCMCIA Extender Board	Twin Industries	None	None
Host PC	Dell	Latitude C640	175T721
AC Adapter	Dell	AA20031	16291-13D-03SP
Antenna Array - CV30	Intermec Technologies	MA3-388	None

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC Power	PA	1.85m	Yes	AC Adapter	Host PC
AC Mains	No	1.85m	No	AC Adapter	AC Mains

PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.

Equipment modifications					
Item	Date	Test	Modification	Note	Disposition of EUT
1	12/17/2007	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	12/19/2007	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing completed.

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

Transmitting 802.11(b), 1 Mbps
Transmitting 802.11(b), 11 Mbps
Transmitting 802.11(g), 6 Mbps
Transmitting 802.11(g), 36 Mbps
Transmitting 802.11(g), 54 Mbps

CHANNELS INVESTIGATED

Low Channel, Channel 1, 2412 MHz
Mid Channel, Channel 6, 2437 MHz
High Channel, Channel 11, 2462 MHz

POWER SETTINGS INVESTIGATED

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	26 GHz
-----------------	--------	----------------	--------

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
EV01 cables g,h,i	N/A	N/A	EVF	10/23/2007	13
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	7/25/2007	13
EV01 Cable D	N/A	N/A	EVD	7/25/2007	13
Antenna, Horn	EMCO	3160-08	AHK	NCR	0
Pre-Amplifier	Miteq	AMF-4D-005180-24-10P	APC	10/23/2007	13
EV01 cables g,h,j	N/A	N/A	EVB	10/23/2007	13
EV01 cables c,g, h	N/A	N/A	EVA	10/23/2007	13
High Pass Filter	Micro-Tronics	HPM50111	HFO	12/29/2006	13
Spectrum Analyzer	Agilent	E4446A	AAT	12/7/2006	13
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	5/10/2007	13
Antenna, Horn	EMCO	3115	AHC	8/24/2006	24
Pre-Amplifier	Miteq	AM-1616-1000	AOL	12/29/2006	13
Antenna, Biconilog	EMCO	3141	AXE	12/28/2005	27

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct

TEST DESCRIPTION

The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.4:2003). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

EUT: DRCB	Work Order: INMC0415
Serial Number: R07E64800017C01	Date: 12/17/07
Customer: Intermec Technologies Corporation	Temperature: 21
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 29.78
Tested by: David Divergigelis	Power: 120VAC/60Hz
	Job Site: EV01

TEST SPECIFICATIONS	
FCC 15.247 (DTS):2006	Test Method ANSI C63.4:2003 KDB No. 558074

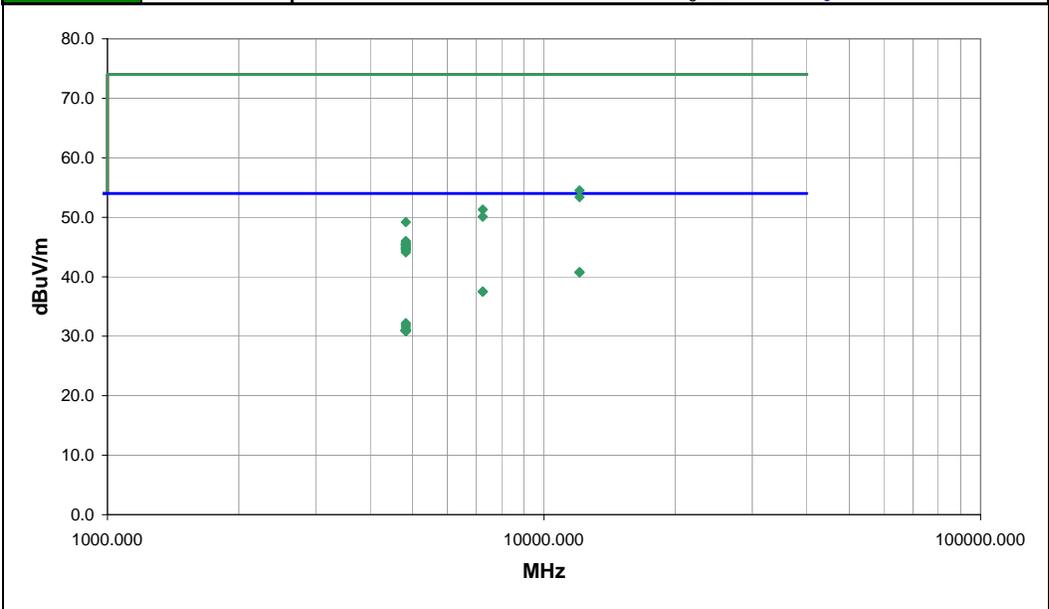
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
EUT on extender card from host PC. CV30 antenna array. See comments below for EUT orientation and data rate.

EUT OPERATING MODES
Transmitting 802.11(b)(g), low channel

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	1	Signature <i>A. N. [Signature]</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
12060.750	20.2	20.6	105.0	1.0	3.0	0.0	H-Horn	AV	0.0	40.8	54.0	-13.2	EUT Horizontal. 36Mbps
12061.640	20.1	20.6	19.0	1.0	3.0	0.0	V-Horn	AV	0.0	40.7	54.0	-13.3	EUT Horizontal. 36Mbps
7236.280	20.7	16.8	102.0	1.5	3.0	0.0	H-Horn	AV	0.0	37.5	54.0	-16.5	EUT Horizontal. 36Mbps
7237.447	20.7	16.8	301.0	1.6	3.0	0.0	V-Horn	AV	0.0	37.5	54.0	-16.5	EUT Horizontal. 36Mbps
12059.030	33.9	20.6	19.0	1.0	3.0	0.0	V-Horn	PK	0.0	54.5	74.0	-19.5	EUT Horizontal. 36Mbps
12060.260	32.8	20.6	105.0	1.0	3.0	0.0	H-Horn	PK	0.0	53.4	74.0	-20.6	EUT Horizontal. 36Mbps
4823.977	22.6	9.6	215.0	1.0	3.0	0.0	H-Horn	AV	0.0	32.2	54.0	-21.8	EUT on end. 1Mbps
4824.017	22.3	9.6	-1.0	1.0	3.0	0.0	H-Horn	AV	0.0	31.9	54.0	-22.1	EUT Horizontal. 1Mbps
4823.950	22.0	9.6	168.0	1.0	3.0	0.0	H-Horn	AV	0.0	31.6	54.0	-22.4	EUT Vertical. 1Mbps
7235.830	34.5	16.8	102.0	1.5	3.0	0.0	H-Horn	PK	0.0	51.3	74.0	-22.7	EUT Horizontal. 36Mbps
4823.807	21.5	9.6	239.0	1.7	3.0	0.0	V-Horn	AV	0.0	31.1	54.0	-22.9	EUT Vertical. 1Mbps
4823.913	21.5	9.6	-1.0	1.0	3.0	0.0	H-Horn	AV	0.0	31.1	54.0	-22.9	EUT Horizontal. 36Mbps
4824.080	21.5	9.6	152.0	1.0	3.0	0.0	V-Horn	AV	0.0	31.1	54.0	-22.9	EUT Horizontal. 1Mbps
4823.903	21.4	9.6	-1.0	1.0	3.0	0.0	H-Horn	AV	0.0	31.0	54.0	-23.0	EUT Horizontal. 54Mbps
4823.927	21.4	9.6	209.0	3.3	3.0	0.0	V-Horn	AV	0.0	31.0	54.0	-23.0	EUT on end. 1Mbps
4824.220	21.4	9.6	63.0	2.7	3.0	0.0	H-Horn	AV	0.0	31.0	54.0	-23.0	EUT Horizontal. 6Mbps
4822.080	21.3	9.6	288.0	1.0	3.0	0.0	V-Horn	AV	0.0	30.9	54.0	-23.1	EUT Horizontal. 54Mbps
4822.677	21.3	9.6	360.0	1.0	3.0	0.0	V-Horn	AV	0.0	30.9	54.0	-23.1	EUT Horizontal. 6Mbps
4822.923	21.3	9.6	360.0	1.0	3.0	0.0	V-Horn	AV	0.0	30.9	54.0	-23.1	EUT Horizontal. 36Mbps
4823.413	21.3	9.6	-1.0	1.7	3.0	0.0	V-Horn	AV	0.0	30.9	54.0	-23.1	EUT Horizontal. 11Mbps

EUT: DRCB	Work Order: INMC0415
Serial Number: R07E64800017C01	Date: 12/17/07
Customer: Intermec Technologies Corporation	Temperature: 21
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 29.78
Tested by: David Divergigelis	Power: 120VAC/60Hz
	Job Site: EV01

TEST SPECIFICATIONS	
FCC 15.247 (DTS):2006	Test Method ANSI C63.4:2003 KDB No. 558074

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
EUT on extender card from host PC. CV30 antenna array. See comments below for EUT orientation and data rate.

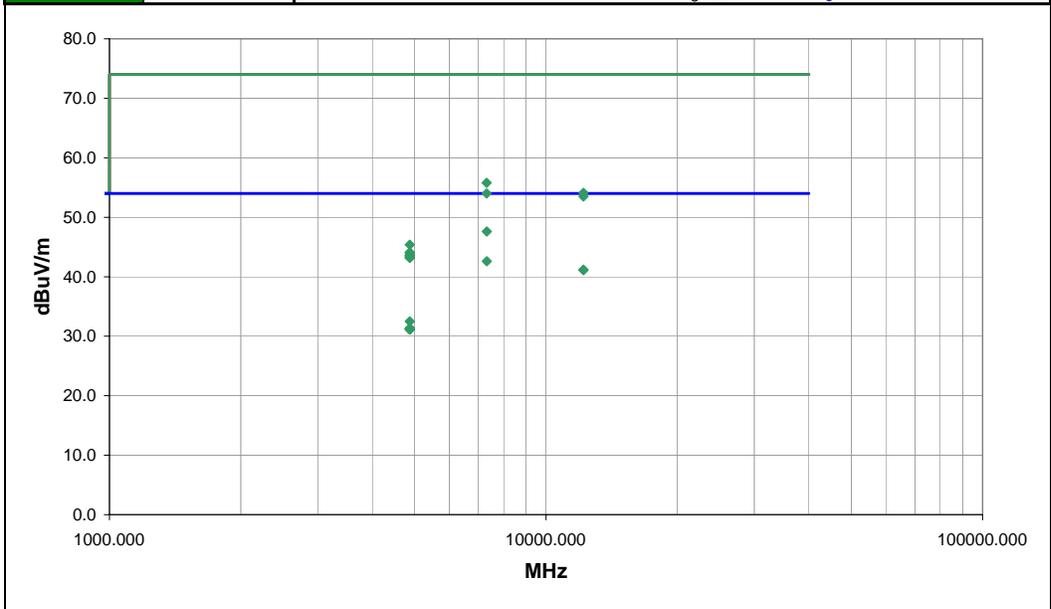
EUT OPERATING MODES

Transmitting 802.11(b)(g), mid channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	2	 Signature
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
7314.183	30.4	17.2	252.0	1.0	3.0	0.0	V-Horn	AV	0.0	47.6	54.0	-6.4	EUT Horizontal. 1Mbps
7315.525	25.4	17.2	289.0	1.0	3.0	0.0	H-Horn	AV	0.0	42.6	54.0	-11.4	EUT Horizontal. 1Mbps
12186.080	20.2	21.0	292.0	1.0	3.0	0.0	V-Horn	AV	0.0	41.2	54.0	-12.8	EUT Horizontal. 1Mbps
12185.880	20.1	21.0	69.0	1.0	3.0	0.0	H-Horn	AV	0.0	41.1	54.0	-12.9	EUT Horizontal. 1Mbps
7313.300	38.6	17.2	252.0	1.0	3.0	0.0	V-Horn	PK	0.0	55.8	74.0	-18.2	EUT Horizontal. 1Mbps
12185.250	33.1	21.0	292.0	1.0	3.0	0.0	V-Horn	PK	0.0	54.1	74.0	-19.9	EUT Horizontal. 1Mbps
7309.608	36.8	17.2	289.0	1.0	3.0	0.0	H-Horn	PK	0.0	54.0	74.0	-20.0	EUT Horizontal. 1Mbps
12183.040	32.5	21.0	69.0	1.0	3.0	0.0	H-Horn	PK	0.0	53.5	74.0	-20.5	EUT Horizontal. 1Mbps
4874.347	22.7	9.8	40.0	1.0	3.0	0.0	H-Horn	AV	0.0	32.5	54.0	-21.5	EUT Horizontal. 1Mbps
4876.525	21.5	9.8	142.0	1.0	3.0	0.0	H-Horn	AV	0.0	31.3	54.0	-22.7	EUT Horizontal. 11Mbps
4876.617	21.5	9.8	63.0	3.0	3.0	0.0	H-Horn	AV	0.0	31.3	54.0	-22.7	EUT Horizontal. 54Mbps
4876.617	21.5	9.8	355.0	3.0	3.0	0.0	H-Horn	AV	0.0	31.3	54.0	-22.7	EUT Horizontal. 36Mbps
4876.758	21.5	9.8	129.0	2.6	3.0	0.0	V-Horn	AV	0.0	31.3	54.0	-22.7	EUT Horizontal. 11Mbps
4876.950	21.5	9.8	216.0	2.6	3.0	0.0	V-Horn	AV	0.0	31.3	54.0	-22.7	EUT Horizontal. 1Mbps
4877.225	21.5	9.8	97.0	3.3	3.0	0.0	V-Horn	AV	0.0	31.3	54.0	-22.7	EUT Horizontal. 36Mbps
4874.142	21.4	9.8	31.0	1.0	3.0	0.0	H-Horn	AV	0.0	31.2	54.0	-22.8	EUT Horizontal. 6Mbps
4876.517	21.4	9.8	341.0	3.3	3.0	0.0	V-Horn	AV	0.0	31.2	54.0	-22.8	EUT Horizontal. 54Mbps
4874.350	21.3	9.8	271.0	2.6	3.0	0.0	V-Horn	AV	0.0	31.1	54.0	-22.9	EUT Horizontal. 6Mbps
4874.220	35.6	9.8	40.0	1.0	3.0	0.0	H-Horn	PK	0.0	45.4	74.0	-28.6	EUT Horizontal. 1Mbps
4874.792	34.3	9.8	216.0	2.6	3.0	0.0	V-Horn	PK	0.0	44.1	74.0	-29.9	EUT Horizontal. 1Mbps

EUT: DRCB	Work Order: INMC0415
Serial Number: R07E64800017C01	Date: 12/17/07
Customer: Intermec Technologies Corporation	Temperature: 21
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 29.78
Tested by: David Divergigelis	Power: 120VAC/60Hz
	Job Site: EV01

TEST SPECIFICATIONS	
FCC 15.247 (DTS):2006	Test Method ANSI C63.4:2003 KDB No. 558074

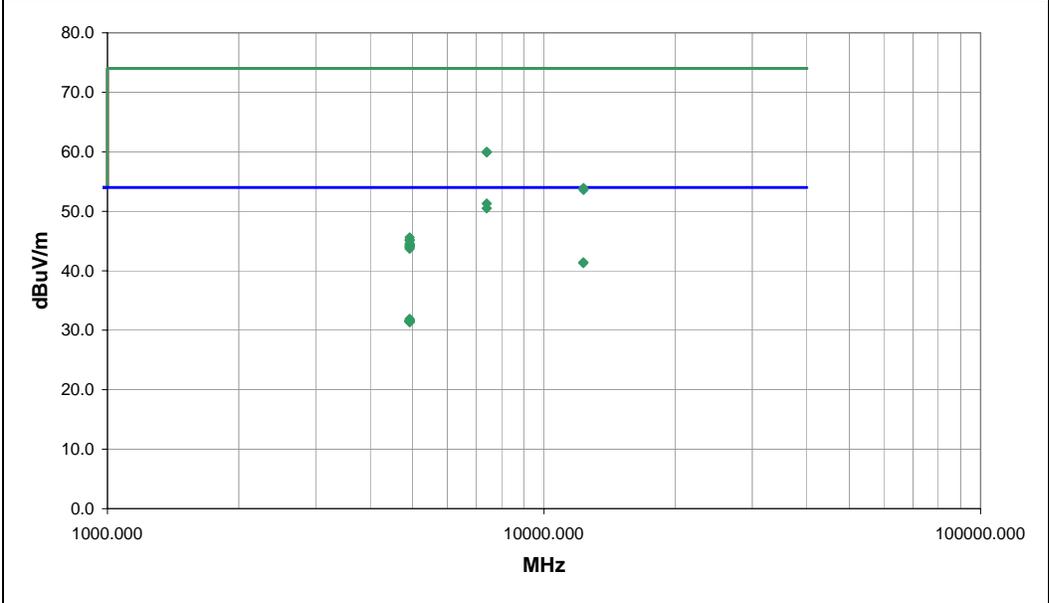
TEST PARAMETERS		
Antenna Height(s) (m)	1 - 4	Test Distance (m)
		3

COMMENTS
EUT on extender card from host PC. CV30 antenna array. See comments below for EUT orientation and data rate.

EUT OPERATING MODES
Transmitting 802.11(b)(g), high channel

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	3	<i>Signature</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
7388.730	33.6	17.7	294.0	1.0	3.0	0.0	V-Horn	AV	0.0	51.3	54.0	-2.7	EUT Horizontal. 1Mbps
7389.330	32.8	17.7	296.0	1.0	3.0	0.0	H-Horn	AV	0.0	50.5	54.0	-3.5	EUT Horizontal. 1Mbps
12305.910	20.0	21.4	124.0	2.3	3.0	0.0	H-Horn	AV	0.0	41.4	54.0	-12.6	EUT Horizontal. 1Mbps
12309.040	19.9	21.4	37.0	1.0	3.0	0.0	V-Horn	AV	0.0	41.3	54.0	-12.7	EUT Horizontal. 1Mbps
7389.030	42.3	17.7	296.0	1.0	3.0	0.0	H-Horn	PK	0.0	60.0	74.0	-14.0	EUT Horizontal. 1Mbps
7389.300	42.2	17.7	294.0	1.0	3.0	0.0	V-Horn	PK	0.0	59.9	74.0	-14.1	EUT Horizontal. 1Mbps
12311.950	32.5	21.4	37.0	1.0	3.0	0.0	V-Horn	PK	0.0	53.9	74.0	-20.1	EUT Horizontal. 1Mbps
12310.650	32.2	21.4	124.0	2.3	3.0	0.0	H-Horn	PK	0.0	53.6	74.0	-20.4	EUT Horizontal. 1Mbps
4923.997	21.9	10.0	217.0	1.0	3.0	0.0	H-Horn	AV	0.0	31.9	54.0	-22.1	EUT Horizontal. 1Mbps
4924.042	21.7	10.0	343.0	1.6	3.0	0.0	V-Horn	AV	0.0	31.7	54.0	-22.3	EUT Horizontal. 36Mbps
4923.872	21.6	10.0	269.0	1.0	3.0	0.0	V-Horn	AV	0.0	31.6	54.0	-22.4	EUT Horizontal. 1Mbps
4923.958	21.6	10.0	118.0	1.4	3.0	0.0	H-Horn	AV	0.0	31.6	54.0	-22.4	EUT Horizontal. 36Mbps
4924.192	21.6	10.0	352.0	1.0	3.0	0.0	V-Horn	AV	0.0	31.6	54.0	-22.4	EUT Horizontal. 11Mbps
4924.417	21.5	10.0	18.0	2.5	3.0	0.0	V-Horn	AV	0.0	31.5	54.0	-22.5	EUT Horizontal. 54Mbps
4924.600	21.5	10.0	83.0	1.4	3.0	0.0	H-Horn	AV	0.0	31.5	54.0	-22.5	EUT Horizontal. 54Mbps
4923.733	21.4	10.0	360.0	1.6	3.0	0.0	V-Horn	AV	0.0	31.4	54.0	-22.6	EUT Horizontal. 6Mbps

EUT: DRCB	Work Order: INMC0415
Serial Number: R07E64800017C01	Date: 12/19/07
Customer: Intermec Technologies Corporation	Temperature: 21
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 29.78
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV01

TEST SPECIFICATIONS	
FCC 15.247 (DTS):2006	Test Method
	ANSI C63.4:2003 KDB No. 558074

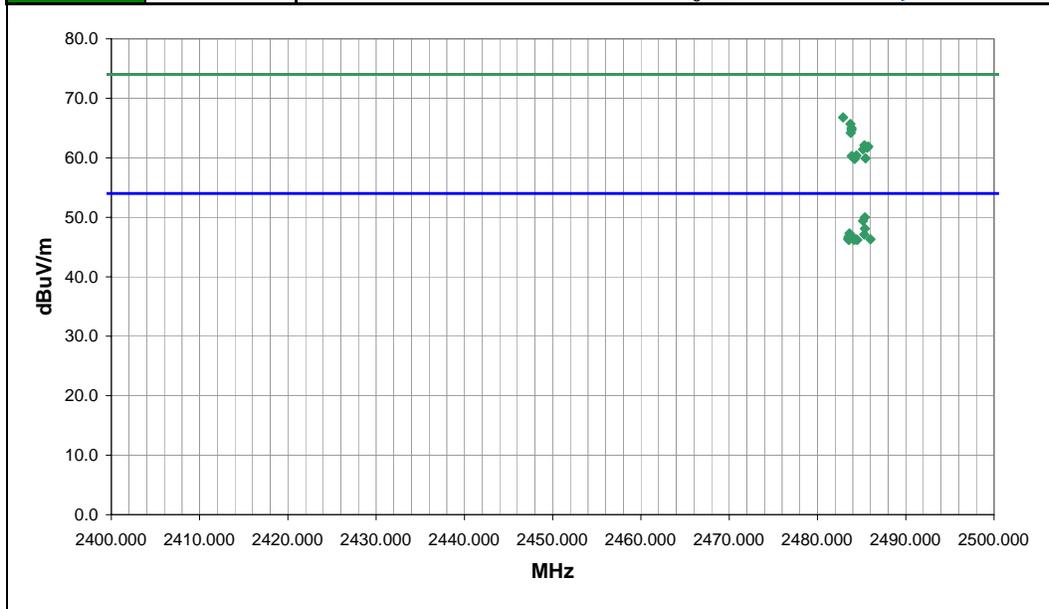
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS
EUT on extender card from host PC. CV30 antenna array.

EUT OPERATING MODES
Transmitting 802.11(b)(g), high channel

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	4	 Signature
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
2485.372	27.8	2.2	38.0	1.2	0.0	20.0	H-Horn	AV	0.0	50.0	54.0	-4.0	1 Mbps, EUT vertical
2485.163	27.2	2.2	5.0	1.5	0.0	20.0	V-Horn	AV	0.0	49.4	54.0	-4.6	1 Mbps, EUT horizontal
2485.375	25.9	2.2	40.0	1.2	0.0	20.0	H-Horn	AV	0.0	48.1	54.0	-5.9	11 Mbps, EUT vertical
2483.623	25.1	2.2	75.0	1.0	0.0	20.0	V-Horn	AV	0.0	47.3	54.0	-6.7	6 Mbps, EUT horizontal
2485.303	24.9	2.2	8.0	1.5	0.0	20.0	V-Horn	AV	0.0	47.1	54.0	-6.9	11 Mbps, EUT horizontal
2482.907	44.6	2.2	52.0	1.2	0.0	20.0	H-Horn	PK	0.0	66.8	74.0	-7.2	54 Mbps, EUT vertical
2483.510	24.4	2.3	52.0	1.2	0.0	20.0	H-Horn	AV	0.0	46.7	54.0	-7.3	54 Mbps, EUT vertical
2484.030	24.4	2.2	28.0	1.4	0.0	20.0	H-Horn	AV	0.0	46.6	54.0	-7.4	6 Mbps, EUT vertical
2483.500	24.2	2.2	163.0	1.5	0.0	20.0	H-Horn	AV	0.0	46.4	54.0	-7.6	6 Mbps, EUT on side
2483.500	24.1	2.2	38.0	1.2	0.0	20.0	H-Horn	AV	0.0	46.3	54.0	-7.7	36 Mbps, EUT vertical
2484.367	24.1	2.2	8.0	1.5	0.0	20.0	V-Horn	AV	0.0	46.3	54.0	-7.7	54 Mbps, EUT horizontal
2486.010	24.1	2.2	8.0	1.5	0.0	20.0	V-Horn	AV	0.0	46.3	54.0	-7.7	36 Mbps, EUT horizontal
2483.563	24.0	2.2	293.0	2.2	0.0	20.0	V-Horn	AV	0.0	46.2	54.0	-7.8	6 Mbps, EUT vertical
2484.153	24.0	2.2	73.0	2.2	0.0	20.0	V-Horn	AV	0.0	46.2	54.0	-7.8	6 Mbps, EUT on side
2484.510	24.0	2.2	104.0	1.0	0.0	20.0	H-Horn	AV	0.0	46.2	54.0	-7.8	6 Mbps, EUT horizontal
2483.733	43.5	2.2	28.0	1.4	0.0	20.0	H-Horn	PK	0.0	65.7	74.0	-8.3	6 Mbps, EUT vertical
2483.850	42.8	2.2	75.0	1.0	0.0	20.0	V-Horn	PK	0.0	65.0	74.0	-9.0	6 Mbps, EUT horizontal
2483.850	42.5	2.2	38.0	1.2	0.0	20.0	H-Horn	PK	0.0	64.7	74.0	-9.3	36 Mbps, EUT vertical
2483.763	42.0	2.2	163.0	1.5	0.0	20.0	H-Horn	PK	0.0	64.2	74.0	-9.8	6 Mbps, EUT on side
2485.317	39.9	2.2	8.0	1.5	0.0	20.0	V-Horn	PK	0.0	62.1	74.0	-11.9	54 Mbps, EUT horizontal

