Intermec Technologies Corporation

1000CP01, 1000CP02, 1001CP01

Tested to the following Specification:
FCC 15.247:2010

Report No. INMC0650

Report Prepared By

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

EMC Test Report

NORTHWEST EMC

22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test

Last Date of Test: December 6, 2010
Intermec Technologies Corporation
Model: 1000CP01, 1000CP02, 1001CP01

Emissions			
Test Description	**Specification**	**Test Method**	**Pass/Fail**
Spurious Radiated Emissions	FCC 15.247:2010	ANSI C63.10:2009	**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 (Site filing #2834D-1).

Approved By:

Greg Kiemel, Director of Engineering

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		

Barometric Pressure

The recorded barometric pressure has been normalized to sea level.

Accreditations and Authorizations

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 National Voluntary Laboratory Accreditation Program (NVLAP) for satisfactory compliance with the requirements of ISO/IEC 17025 for Testing Laboratories. NVLAP is administered by the National Institute of Standards and Technology (NIST), an agency of the U.S. Commerce Department. 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.

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-Gen, Issue 2 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. (*Site Filing Numbers - Hillsboro: 2834D-1, 2834D-2, Sultan: 2834C-1, Irvine: 2834B-1, 2834B-2, Brooklyn Park: 2834E-1)*

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.

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).

Accreditations and Authorizations

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, G-84, C-2687, T-1658, and R-2318, Irvine: R-1943, G-85, C-2766, and T-1659, Sultan: R-871, G-83, C-1784, and T-1511, Brooklyn Park: R-3125, G-86, G-141, C-3464, and T-1634).*

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 (US0017).

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

KCC

Northwest EMC, Inc is a CAB designated by MRA partners and recognized by Korea. (*Assigned Lab Numbers: Hillsboro: US0017, Irvine: US0158, Sultan: US0157, Brooklyn Park: US0175)*

VIETNAM

Vietnam MIC has approved Northwest EMC as an accredited test lab. Per Decision No. 194/QD-QLCL (dated December 15, 2009), Northwest EMC test reports can be used for Vietnam approval submissions.

SCOPE

For details on the Scopes of our Accreditations, please visit:
http://www.nwemc.com/accreditations/

Northwest EMC Locations

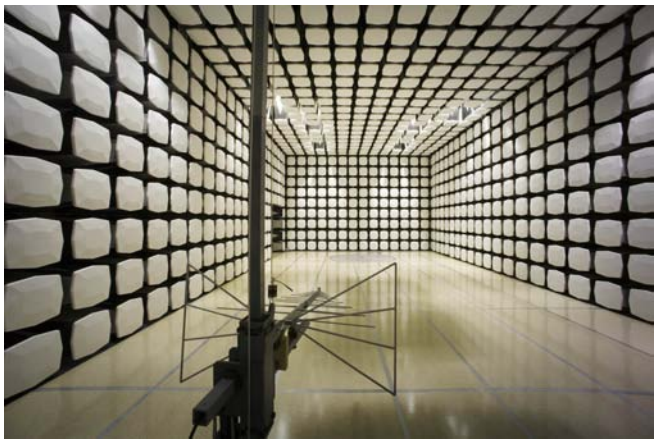
Oregon
Labs EV01-EV12
22975 NW Evergreen Pkwy
Suite 400
Hillsboro, OR 97124
(503) 844-4066

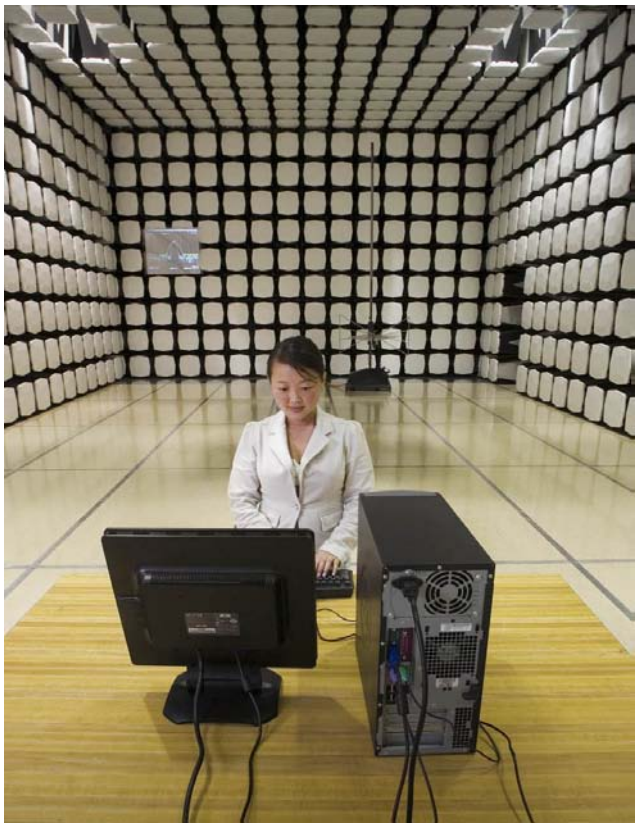
California
Labs OC01-OC13
41 Tesla
Irvine, CA 92618
(949) 861-8918

Minnesota
Labs MN01-MN08
9349 W Broadway Ave.
Brooklyn Park,
MN 55445
(763) 425-2281

Washington
Labs SU01-SU07
14128 339th Ave. SE
Sultan, WA 98294
(360) 793-8675

New York
Labs WA01-WA04
4939 Jordan Rd.
Elbridge, NY 13060
(315) 685-0796





Party Requesting the Test

Company Name:	Intermec technologies Corporation
Address:	6001 36th Avenue West
City, State, Zip:	Everett, WA 98203-1264
Test Requested By:	Wayne Rieger
Model:	1000CP01, 1000CP02, 1001CP01
First Date of Test:	December 6, 2010
Last Date of Test:	December 6, 2010
Receipt Date of Samples:	December 6, 2010
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):

Handheld computers containing the Intermec Model RC12 radio module. The module is an 802.11 a/b/g/n - Bluetooth radio.

Testing Objective:

To demonstrate compliance with FCC 15.247 spurious radiated emissions requirement for the 802.11b/g/n portion of the radio. The RC12 radio module has been previously tested in a stand-alone configuration using a higher gain antenna of the same type. This testing in the Models 1000CP01, 1000CP02, and 1001CP01 handheld computers is done for an additional assurance of compliance.

CONFIGURATION 1 INMC0650

Software/Firmware Running during test	
Description	**Version**
Regulatory Test Tool	RTT_1.01.00.0007

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Data Terminal	Intermec Technologies Corporation	1000CP01	2831147092

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
USB SNAPON	Intermec Technologies Corporation	225-773-001	HDI5P D-SUB, A3
Power Supply	Intermec Technologies Corporation	AE39	02061000875

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
AC power	No	1.8	No	Power Supply	AC Mains
Power	PA	1.8	PA	Power Supply	USB SNAPON
Serial to USB	Yes	0.2	Yes	USB SNAPON	USB Cable
USB	Yes	0.2	No	Serial to USB	Unterminated
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

CONFIGURATION 2 INMC0650

Software/Firmware Running during test	
Description	**Version**
Regulatory Test Tool	RTT_1.01.00.0007

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Data Terminal	Intermec Technologies Corporation	1000CP02	2831147193

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
USB SNAPON	Intermec Technologies Corporation	225-773-001	HDI5P D-SUB, A3
Power Supply	Intermec Technologies Corporation	AE39	02061000875

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
AC power	No	1.8	No	Power Supply	AC Mains
Power	PA	1.8	PA	Power Supply	USB SNAPON
Serial to USB	Yes	0.2	Yes	USB SNAPON	USB Cable
USB	Yes	0.2	No	Serial to USB	Unterminated
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

CONFIGURATION 3 INMC0650

Software/Firmware Running during test	
Description	**Version**
Regulatory Test Tool	RTT_1.01.00.0007

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Data Terminal	Intermec Technologies Corporation	1001CP01	2831147306

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
USB SNAPON	Intermec Technologies Corporation	225-773-001	HDI5P D-SUB, A3
Power Supply	Intermec Technologies Corporation	AE39	02061000875

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
AC power	No	1.8	No	Power Supply	AC Mains
Power	PA	1.8	PA	Power Supply	USB SNAPON
Serial to USB	Yes	0.2	Yes	USB SNAPON	USB Cable
USB	Yes	0.2	No	Serial to USB	Unterminated
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	12/6/2010	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

SPURIOUS RADIATED EMISSIONS

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
Continuous Tx. 1 Mbps
Continuous Tx. 6 Mbps
Continuous Tx. 11 Mbps
Continuous Tx. 36 Mbps
Continuous Tx. 54Mbps
Continuous Tx. MCS0
Continuous Tx. MCS7

FREQUENCIES INVESTIGATED
Low Channel
Mid Channel
High Channel

POWER SETTINGS INVESTIGATED
120VAC/60Hz

FREQUENCY RANGE INVESTIGATED			
Start Frequency	30 MHz	Stop Frequency	26 GHz

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
Spectrum Analyzer	Agilent	E4446A	AAQ	1/6/2010	12
High Pass Filter	Micro-Tronics	HPM50112	HGA	10/1/2009	13
5.725-5.875 Notch Filter	Micro-Tronics	BRC50705	HGJ	9/29/2010	13
5.47-5.725 Notch Filter	Micro-Tronics	BRC50704	HGI	9/29/2010	13
5.25 GHz Notch Filter	K&L Microwave	8N50-5250/X200-0/0	HFK	4/2/2010	13
OC Cable	ESM Cable Corp.	KMKM-72	OCV	11/3/2009	16
Cable	ESM Cable Corp.	KMKM-72	EVY	11/3/2009	16
EV12 Cables	N/A	Standard Gain Horn Cables	EVU	7/14/2010	13
EV12 Cables	N/A	Double Ridge Horn Cables	EVT	11/22/2010	13
EV12 Cables	N/A	Bilog Cables	EVS	7/14/2010	13
Pre-Amplifier	Miteq	JSW45-26004000-40-5P	AVR	6/22/2010	13
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AVU	12/15/2010	13
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVI	7/14/2010	13
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVH	7/14/2010	13
Pre-Amplifier	Miteq	AMF-3D00100800-32-13P	AVF	7/14/2010	13
Pre-Amplifier	Miteq	AM-1616-1000	AVM	7/14/2010	13
Antenna, Horn	ETS Lindgren	3160-10	AIW	NCR	0
Antenna, Horn	ETS Lindgren	3160-09	AIV	NCR	0
Antenna, Horn	ETS	3160-08	AIA	NCR	0
Antenna, Horn	ETS	3160.07	AHZ	9/8/2010	24
Antenna, Horn	ETS	3115	AIB	9/8/2010	24
Antenna, Biconilog	EMCO	3141	AXG	2/15/2010	13
Spectrum Analyzer	Agilent	E4440A	AAX	5/14/2010	12

MEASUREMENT BANDWIDTHS

	Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (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.				

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. The measurement uncertainty estimation is available upon request.

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 C63.10:2009). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

NORTHWEST EMC

SPURIOUS RADIATED EMISSIONS

PSA 2008.07.21
EMI 2008.1.9

EUT:	1000CP01	Work Order:	INMC0650
Serial Number:	2831147092	Date:	12/06/10
Customer:	Intermec Technologies Corporation	Temperature:	23.1 °C
Attendees:	None	Humidity:	29%
Project:	None	Barometric Pres.:	1020.4 mb
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247:2010	ANSI C63.10:2009

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

COMMENTS

See Comments

EUT OPERATING MODES

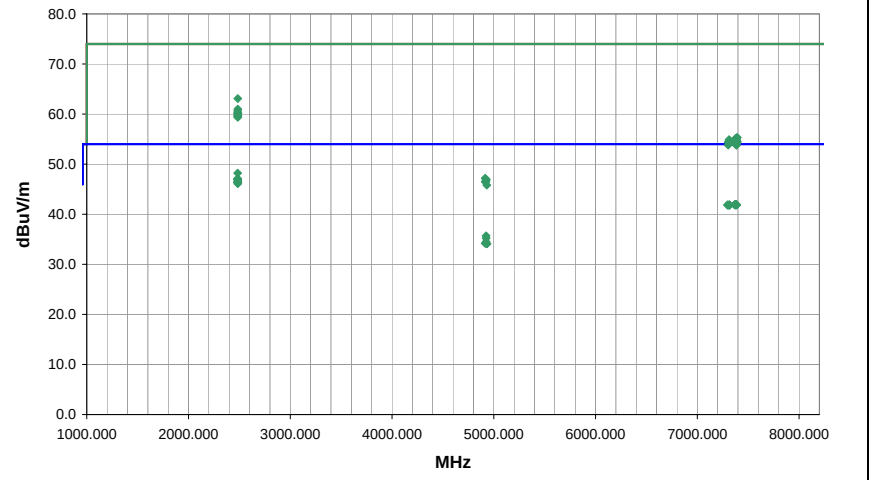
WiFi Continuous Tx.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	1
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
2483.505	28.5	-0.3	27.0	1.1	3.0	20.0	H-Horn	AV	0.0	48.2	54.0	-5.8	Unit A2, High channel, 802.11n, MCSO. EUT on side.
2483.500	27.4	-0.3	183.0	1.1	3.0	20.0	H-Horn	AV	0.0	47.1	54.0	-6.9	Unit A2, High channel, 802.11g, 6Mbps. EUT on side.
2483.512	27.4	-0.3	235.0	1.0	3.0	20.0	V-Horn	AV	0.0	47.1	54.0	-6.9	Unit A2, High channel, 802.11n, MCSO. EUT on side.
2483.500	27.2	-0.3	236.0	1.0	3.0	20.0	V-Horn	AV	0.0	46.9	54.0	-7.1	Unit A2, High channel, 802.11n, MCSO. EUT vertical.
2483.510	27.2	-0.3	38.0	1.1	3.0	20.0	H-Horn	AV	0.0	46.9	54.0	-7.1	Unit A2, High channel, 802.11g, 36Mbps. EUT on side.
2484.132	26.9	-0.3	245.0	1.0	3.0	20.0	V-Horn	AV	0.0	46.6	54.0	-7.4	Unit A2, High channel, 802.11g, 36Mbps. EUT on side.
2484.602	26.8	-0.3	317.0	1.1	3.0	20.0	H-Horn	AV	0.0	46.5	54.0	-7.5	Unit A2, High channel, 802.11n, MCS7. EUT on side.
2483.528	26.7	-0.3	310.0	1.0	3.0	20.0	V-Horn	AV	0.0	46.4	54.0	-7.6	Unit A2, High channel, 802.11g, 6Mbps. EUT on side.
2484.082	26.7	-0.3	132.0	1.0	3.0	20.0	V-Horn	AV	0.0	46.4	54.0	-7.6	Unit A2, High channel, 802.11n, MCSO. EUT face up.
2483.732	26.6	-0.3	357.0	1.0	3.0	20.0	V-Horn	AV	0.0	46.3	54.0	-7.7	Unit A2, High channel, 802.11n, MCS7. EUT on side.
2484.397	26.6	-0.3	145.0	3.1	3.0	20.0	H-Horn	AV	0.0	46.3	54.0	-7.7	Unit A2, High channel, 802.11n, MCSO. EUT face up.
2483.990	26.4	-0.3	0.0	1.0	3.0	20.0	H-Horn	AV	0.0	46.1	54.0	-7.9	Unit A2, High channel, 802.11n, MCSO. EUT vertical.
2483.940	43.4	-0.3	27.0	1.1	3.0	20.0	H-Horn	PK	0.0	63.1	74.0	-10.9	Unit A2, High channel, 802.11n, MCSO. EUT on side.
7297.370	24.3	17.6	102.0	3.4	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	Unit A2, Mid channel, 802.11b, 1 Mbps. EUT face up.
7314.800	24.3	17.6	295.0	2.2	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	Unit A2, Mid channel, 802.11b, 1 Mbps. EUT vertical.
7315.300	24.3	17.6	353.0	2.1	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	Unit A2, Mid channel, 802.11b, 1 Mbps. EUT face up.
7368.500	24.1	17.8	4.0	1.7	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	Unit A2, High channel, 802.11g, 54 Mbps. EUT vertical.
7370.530	24.1	17.8	125.0	1.0	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	Unit A2, High channel, 802.11g, 54 Mbps. EUT on side.
7370.700	24.1	17.8	87.0	2.3	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	Unit A2, High channel, 802.11g, 54 Mbps. EUT face up.
7371.330	24.1	17.8	232.0	2.3	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	Unit A2, High channel, 802.11b, 11 Mbps. EUT face up.
7371.500	24.1	17.8	6.0	1.7	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	Unit A2, High channel, 802.11b, 11 Mbps. EUT vertical.
7372.270	24.1	17.8	360.0	2.7	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	Unit A2, High channel, 802.11g, 36 Mbps. EUT face up.
7373.370	24.1	17.8	1.0	2.4	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	Unit A2, High channel, 802.11g, 36 Mbps. EUT on side.
7375.430	24.1	17.8	311.0	2.3	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	Unit A2, High channel, 802.11g, 36 Mbps. EUT face up.
7376.000	24.1	17.8	335.0	1.2	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	Unit A2, High channel, 802.11b, 11 Mbps. EUT on side.
7379.770	24.1	17.8	22.0	2.4	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	Unit A2, High channel, 802.11g, 54 Mbps. EUT face up.
7380.970	24.1	17.8	197.0	1.7	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	Unit A2, High channel, 802.11g, 36 Mbps. EUT vertical.
7381.700	24.1	17.8	345.0	2.4	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	Unit A2, High channel, 802.11b, 11 Mbps. EUT face up.
7382.700	24.1	17.8	315.0	3.3	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	Unit A2, High channel, 802.11g, 54 Mbps. EUT vertical.
7383.770	24.1	17.8	92.0	2.3	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	Unit A2, High channel, 802.11g, 36 Mbps. EUT on side.
7383.870	24.1	17.8	240.0	3.3	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	Unit A2, High channel, 802.11g, 36 Mbps. EUT vertical.
7384.870	24.1	17.8	0.0	1.0	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	Unit A2, High channel, 802.11b, 11 Mbps. EUT on side.
7384.970	24.1	17.8	266.0	3.3	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	Unit A2, High channel, 802.11b, 11 Mbps. EUT vertical.
7385.500	24.1	17.8	68.0	1.0	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	Unit A2, High channel, 802.11g, 54 Mbps. EUT on side.
7299.070	24.2	17.6	0.0	2.2	3.0	0.0	V-Horn	AV	0.0	41.8	54.0	-12.2	Unit A2, Mid channel, 802.11b, 1 Mbps. EUT on side.
7312.730	24.2	17.6	35.0	3.4	3.0	0.0	H-Horn	AV	0.0	41.8	54.0	-12.2	Unit A2, Mid channel, 802.11b, 1 Mbps. EUT vertical.
7316.170	24.2	17.6	47.0	3.4	3.0	0.0	H-Horn	AV	0.0	41.8	54.0	-12.2	Unit A2, Mid channel, 802.11b, 1 Mbps. EUT on side.
2484.018	41.3	-0.3	235.0	1.0	3.0	20.0	V-Horn	PK	0.0	61.0	74.0	-13.0	Unit A2, High channel, 802.11n, MCSO. EUT on side.
2483.525	40.9	-0.3	38.0	1.1	3.0	20.0	H-Horn	PK	0.0	60.6	74.0	-13.4	Unit A2, High channel, 802.11g, 36Mbps. EUT on side.
2483.650	40.5	-0.3	357.0	1.0	3.0	20.0	V-Horn	PK	0.0	60.2	74.0	-13.8	Unit A2, High channel, 802.11n, MCS7. EUT on side.
2484.223	40.5	-0.3	145.0	3.1	3.0	20.0	H-Horn	PK	0.0	60.2	74.0	-13.8	Unit A2, High channel, 802.11n, MCSO. EUT face up.
2484.387	40.5	-0.3	310.0	1.0	3.0	20.0	V-Horn	PK	0.0	60.2	74.0	-13.8	Unit A2, High channel, 802.11g, 6Mbps. EUT on side.
2484.472	40.5	-0.3	183.0	1.1	3.0	20.0	H-Horn	PK	0.0	60.2	74.0	-13.8	Unit A2, High channel, 802.11g, 6Mbps. EUT on side.
2484.255	40.1	-0.3	236.0	1.0	3.0	20.0	V-Horn	PK	0.0	59.8	74.0	-14.2	Unit A2, High channel, 802.11n, MCSO. EUT vertical.
2484.390	40.0	-0.3	132.0	1.0	3.0	20.0	V-Horn	PK	0.0	59.7	74.0	-14.3	Unit A2, High channel, 802.11n, MCSO. EUT face up.
2484.298	39.9	-0.3	317.0	1.1	3.0	20.0	H-Horn	PK	0.0	59.6	74.0	-14.4	Unit A2, High channel, 802.11n, MCS7. EUT on side.
2484.353	39.7	-0.3	0.0	1.0	3.0	20.0	H-Horn	PK	0.0	59.4	74.0	-14.6	Unit A2, High channel, 802.11n, MCSO. EUT vertical.
2484.403	39.7	-0.3	245.0	1.0	3.0	20.0	V-Horn	PK	0.0	59.4	74.0	-14.6	Unit A2, High channel, 802.11g, 36Mbps. EUT on side.
4924.030	26.3	9.4	73.0	1.0	3.0	0.0	H-Horn	AV	0.0	35.7	54.0	-18.3	Unit A2, High channel, 802.11b, 1 Mbps. EUT on side.
7389.400	37.5	17.8	125.0	1.0	3.0	0.0	H-Horn	PK	0.0	55.3	74.0	-18.7	Unit A2, High channel, 802.11g, 54 Mbps. EUT on side.
7393.400	37.5	17.8	345.0	2.4	3.0	0.0	V-Horn	PK	0.0	55.3	74.0	-18.7	Unit A2, High channel, 802.11b, 11 Mbps. EUT face up.
4924.100	25.8	9.4	128.0	1.0	3.0	0.0	V-Horn	AV	0.0	35.2	54.0	-18.8	Unit A2, High channel, 802.11b, 1 Mbps. EUT on side.
7375.670	37.3	17.8	240.0	3.3	3.0	0.0	V-Horn	PK	0.0	55.1	74.0	-18.9	Unit A2, High channel, 802.11g, 36 Mbps. EUT vertical.
7376.970	37.2	17.8	197.0	1.7	3.0	0.0	H-Horn	PK	0.0	55.0	74.0	-19.0	Unit A2, High channel, 802.11g, 36 Mbps. EUT vertical.
7311.630	37.3	17.6	353.0	2.1	3.0	0.0	V-Horn	PK	0.0	54.9	74.0	-19.1	Unit A2, Mid channel, 802.11b, 1 Mbps. EUT face up.
7383.870	37.1	17.8	360.0	2.7	3.0	0.0	V-Horn	PK	0.0	54.9	74.0	-19.1	Unit A2, High channel, 802.11g, 36 Mbps. EUT face up.
7376.870	37.0	17.8	335.0	1.2	3.0	0.0	H-Horn	PK	0.0	54.8	74.0	-19.2	Unit A2, High channel, 802.11b, 11 Mbps. EUT on side.
7318.470	37.1	17.6	47.0	3.4	3.0	0.0	H-Horn	PK	0.0	54.7	74.0	-19.3	Unit A2, Mid channel, 802.11b, 1 Mbps. EUT on side.

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
7380.530	36.9	17.8	92.0	2.3	3.0	0.0	H-Horn	PK	0.0	54.7	74.0	-19.3	Unit A2, High channel, 802.11g, 36 Mbps. EUT on side.
7386.700	36.8	17.8	311.0	2.3	3.0	0.0	H-Horn	PK	0.0	54.6	74.0	-19.4	Unit A2, High channel, 802.11g, 36 Mbps. EUT face up.
7318.270	36.9	17.6	0.0	2.2	3.0	0.0	V-Horn	PK	0.0	54.5	74.0	-19.5	Unit A2, Mid channel, 802.11b, 1 Mbps. EUT on side.
4924.170	25.1	9.4	151.0	1.0	3.0	0.0	V-Horn	AV	0.0	34.5	54.0	-19.5	Unit A2, High channel, 802.11b, 1 Mbps. EUT face up.
7386.270	36.7	17.8	232.0	2.3	3.0	0.0	H-Horn	PK	0.0	54.5	74.0	-19.5	Unit A2, High channel, 802.11b, 11 Mbps. EUT face up.
7394.030	36.7	17.8	315.0	3.3	3.0	0.0	V-Horn	PK	0.0	54.5	74.0	-19.5	Unit A2, High channel, 802.11g, 54 Mbps. EUT vertical.
7303.570	36.8	17.6	35.0	3.4	3.0	0.0	H-Horn	PK	0.0	54.4	74.0	-19.6	Unit A2, Mid channel, 802.11b, 1 Mbps. EUT vertical.
7305.670	36.7	17.6	102.0	3.4	3.0	0.0	H-Horn	PK	0.0	54.3	74.0	-19.7	Unit A2, Mid channel, 802.11b, 1 Mbps. EUT face up.
7375.900	36.5	17.8	68.0	1.0	3.0	0.0	V-Horn	PK	0.0	54.3	74.0	-19.7	Unit A2, High channel, 802.11g, 54 Mbps. EUT on side.
7382.070	36.5	17.8	6.0	1.7	3.0	0.0	H-Horn	PK	0.0	54.3	74.0	-19.7	Unit A2, High channel, 802.11b, 11 Mbps. EUT vertical.
7382.300	36.5	17.8	1.0	2.4	3.0	0.0	V-Horn	PK	0.0	54.3	74.0	-19.7	Unit A2, High channel, 802.11g, 36 Mbps. EUT on side.
7390.200	36.5	17.8	4.0	1.7	3.0	0.0	H-Horn	PK	0.0	54.3	74.0	-19.7	Unit A2, High channel, 802.11g, 54 Mbps. EUT vertical.
7386.170	36.4	17.8	22.0	2.4	3.0	0.0	V-Horn	PK	0.0	54.2	74.0	-19.8	Unit A2, High channel, 802.11g, 54 Mbps. EUT face up.
4915.530	24.8	9.4	53.0	3.6	3.0	0.0	H-Horn	AV	0.0	34.2	54.0	-19.8	Unit A2, High channel, 802.11b, 1 Mbps. EUT face up.
4923.970	24.8	9.4	256.0	1.0	3.0	0.0	V-Horn	AV	0.0	34.2	54.0	-19.8	Unit A2, High channel, 802.11b, 1 Mbps. EUT vertical.
4933.400	24.7	9.4	265.0	3.6	3.0	0.0	H-Horn	AV	0.0	34.1	54.0	-19.9	Unit A2, High channel, 802.11b, 1 Mbps. EUT vertical.
7375.970	36.2	17.8	266.0	3.3	3.0	0.0	V-Horn	PK	0.0	54.0	74.0	-20.0	Unit A2, High channel, 802.11b, 11 Mbps. EUT vertical.
7303.970	36.2	17.6	295.0	2.2	3.0	0.0	V-Horn	PK	0.0	53.8	74.0	-20.2	Unit A2, Mid channel, 802.11b, 1 Mbps. EUT vertical.
7383.330	36.0	17.8	87.0	2.3	3.0	0.0	H-Horn	PK	0.0	53.8	74.0	-20.2	Unit A2, High channel, 802.11g, 54 Mbps. EUT face up.
7385.800	36.0	17.8	0.0	1.0	3.0	0.0	V-Horn	PK	0.0	53.8	74.0	-20.2	Unit A2, High channel, 802.11b, 11 Mbps. EUT on side.
4914.600	37.8	9.4	151.0	1.0	3.0	0.0	V-Horn	PK	0.0	47.2	74.0	-26.8	Unit A2, High channel, 802.11b, 1 Mbps. EUT face up.
4927.300	37.5	9.4	73.0	1.0	3.0	0.0	H-Horn	PK	0.0	46.9	74.0	-27.1	Unit A2, High channel, 802.11b, 1 Mbps. EUT on side.
4920.970	37.2	9.4	128.0	1.0	3.0	0.0	V-Horn	PK	0.0	46.6	74.0	-27.4	Unit A2, High channel, 802.11b, 1 Mbps. EUT on side.
4915.730	37.1	9.4	256.0	1.0	3.0	0.0	V-Horn	PK	0.0	46.5	74.0	-27.5	Unit A2, High channel, 802.11b, 1 Mbps. EUT vertical.
4922.430	37.1	9.4	53.0	3.6	3.0	0.0	H-Horn	PK	0.0	46.5	74.0	-27.5	Unit A2, High channel, 802.11b, 1 Mbps. EUT face up.
4931.400	36.4	9.4	265.0	3.6	3.0	0.0	H-Horn	PK	0.0	45.8	74.0	-28.2	Unit A2, High channel, 802.11b, 1 Mbps. EUT vertical.

NORTHWEST EMC

SPURIOUS RADIATED EMISSIONS

PSA 2008.07.21
EMI 2008.1.9

EUT:	1000CP02	Work Order:	INMC0650
Serial Number:	2831147193	Date:	12/06/10
Customer:	Intermec Technologies Corporation	Temperature:	20.6 °C
Attendees:	none	Humidity:	34%
Project:	None	Barometric Pres.:	1022.9 mb
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247:2010	ANSI C63.10:2009

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

COMMENTS

See Comments

EUT OPERATING MODES

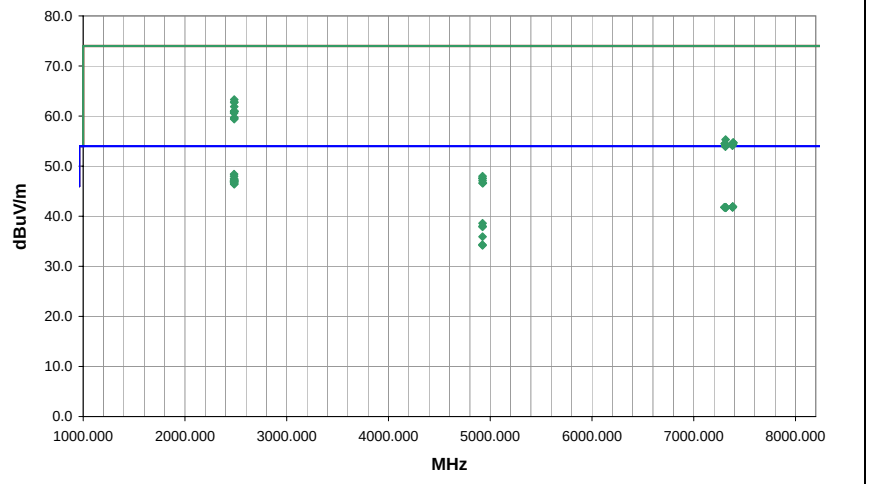
WiFi Continuous Tx.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	2
Configuration #	2
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
2483.500	28.7	-0.3	48.0	1.4	3.0	20.0	H-Horn	AV	0.0	48.4	54.0	-5.6	Unit B2, High channel, 802.11n, MCS0. EUT on side.
2483.500	28.3	-0.3	42.0	1.4	3.0	20.0	H-Horn	AV	0.0	48.0	54.0	-6.0	Unit B2, High channel, 802.11g, 6 Mbps. EUT on side.
2483.502	27.8	-0.3	3.0	1.0	3.0	20.0	V-Horn	AV	0.0	47.5	54.0	-6.5	Unit B2, High channel, 802.11n, MCS0. EUT on side.
2483.613	27.6	-0.3	253.0	1.5	3.0	20.0	H-Horn	AV	0.0	47.3	54.0	-6.7	Unit B2, High channel, 802.11n, MCS0. EUT face up.
2483.668	27.5	-0.3	33.0	1.4	3.0	20.0	H-Horn	AV	0.0	47.2	54.0	-6.8	Unit B2, High channel, 802.11n, MCS7. EUT on side.
2483.503	27.4	-0.3	205.0	1.0	3.0	20.0	V-Horn	AV	0.0	47.1	54.0	-6.9	Unit B2, High channel, 802.11n, MCS0. EUT vertical.
2483.745	27.3	-0.3	71.0	1.4	3.0	20.0	H-Horn	AV	0.0	47.0	54.0	-7.0	Unit B2, High channel, 802.11g, 36 Mbps. EUT on side.
2483.555	27.2	-0.3	329.0	1.0	3.0	20.0	V-Horn	AV	0.0	46.9	54.0	-7.1	Unit B2, High channel, 802.11n, MCS0. EUT face up.
2483.507	27.1	-0.3	237.0	1.0	3.0	20.0	V-Horn	AV	0.0	46.8	54.0	-7.2	Unit B2, High channel, 802.11n, MCS7. EUT on side.
2483.607	27.1	-0.3	351.0	1.0	3.0	20.0	V-Horn	AV	0.0	46.8	54.0	-7.2	Unit B2, High channel, 802.11g, 6 Mbps. EUT on side.
2483.620	26.8	-0.3	197.0	1.0	3.0	20.0	V-Horn	AV	0.0	46.5	54.0	-7.5	Unit B2, High channel, 802.11g, 36 Mbps. EUT on side.
2483.625	26.7	-0.3	336.0	1.4	3.0	20.0	H-Horn	AV	0.0	46.4	54.0	-7.6	Unit B2, High channel, 802.11n, MCS0. EUT vertical.
2484.022	43.6	-0.3	48.0	1.4	3.0	20.0	H-Horn	PK	0.0	63.3	74.0	-10.7	Unit B2, High channel, 802.11n, MCS0. EUT on side.
2484.470	43.1	-0.3	3.0	1.0	3.0	20.0	V-Horn	PK	0.0	62.8	74.0	-11.2	Unit B2, High channel, 802.11n, MCS0. EUT on side.
2483.568	43.0	-0.3	42.0	1.4	3.0	20.0	H-Horn	PK	0.0	62.7	74.0	-11.3	Unit B2, High channel, 802.11g, 6 Mbps. EUT on side.
2484.132	42.2	-0.3	253.0	1.5	3.0	20.0	H-Horn	PK	0.0	61.9	74.0	-12.1	Unit B2, High channel, 802.11n, MCS0. EUT face up.
7381.433	24.1	17.8	190.0	1.0	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	Unit B2, High channel, 802.11g, 36 Mbps. EUT on side.
7383.000	24.1	17.8	207.0	1.0	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	Unit B2, High channel, 802.11b, 11 Mbps. EUT on side.
7383.233	24.1	17.8	61.0	1.0	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	Unit B2, High channel, 802.11b, 11 Mbps. EUT vertical.
7385.333	24.1	17.8	226.0	2.7	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	Unit B2, High channel, 802.11g, 54 Mbps. EUT on side.
7301.200	24.2	17.6	3.0	2.9	3.0	0.0	H-Horn	AV	0.0	41.8	54.0	-12.2	Unit B2, Mid channel, 802.11b, 1 Mbps. EUT on side.
7311.967	24.2	17.6	67.0	1.0	3.0	0.0	V-Horn	AV	0.0	41.8	54.0	-12.2	Unit B2, Mid channel, 802.11b, 1 Mbps. EUT face up.
7312.783	24.2	17.6	335.0	1.0	3.0	0.0	V-Horn	AV	0.0	41.8	54.0	-12.2	Unit B2, Mid channel, 802.11b, 1 Mbps. EUT on side.
7312.883	24.2	17.6	217.0	1.0	3.0	0.0	H-Horn	AV	0.0	41.8	54.0	-12.2	Unit B2, Mid channel, 802.11b, 1 Mbps. EUT vertical.
7381.400	24.0	17.8	23.0	2.5	3.0	0.0	H-Horn	AV	0.0	41.8	54.0	-12.2	Unit B2, High channel, 802.11g, 54 Mbps. EUT vertical.
7381.767	24.0	17.8	10.0	2.5	3.0	0.0	H-Horn	AV	0.0	41.8	54.0	-12.2	Unit B2, High channel, 802.11g, 36 Mbps. EUT vertical.
7312.083	24.1	17.6	31.0	1.0	3.0	0.0	V-Horn	AV	0.0	41.7	54.0	-12.3	Unit B2, Mid channel, 802.11b, 1 Mbps. EUT vertical.
7315.283	24.1	17.6	298.0	1.0	3.0	0.0	H-Horn	AV	0.0	41.7	54.0	-12.3	Unit B2, Mid channel, 802.11b, 1 Mbps. EUT face up.
2483.630	41.3	-0.3	205.0	1.0	3.0	20.0	V-Horn	PK	0.0	61.0	74.0	-13.0	Unit B2, High channel, 802.11n, MCS0. EUT vertical.
2483.773	41.3	-0.3	33.0	1.4	3.0	20.0	H-Horn	PK	0.0	61.0	74.0	-13.0	Unit B2, High channel, 802.11n, MCS7. EUT on side.
2483.792	41.2	-0.3	71.0	1.4	3.0	20.0	H-Horn	PK	0.0	60.9	74.0	-13.1	Unit B2, High channel, 802.11g, 36 Mbps. EUT on side.
2484.265	41.2	-0.3	329.0	1.0	3.0	20.0	V-Horn	PK	0.0	60.9	74.0	-13.1	Unit B2, High channel, 802.11n, MCS0. EUT face up.
2483.508	40.9	-0.3	237.0	1.0	3.0	20.0	V-Horn	PK	0.0	60.6	74.0	-13.4	Unit B2, High channel, 802.11n, MCS7. EUT on side.
2483.617	40.0	-0.3	351.0	1.0	3.0	20.0	V-Horn	PK	0.0	59.7	74.0	-14.3	Unit B2, High channel, 802.11g, 6 Mbps. EUT on side.
2484.005	39.9	-0.3	336.0	1.4	3.0	20.0	H-Horn	PK	0.0	59.6	74.0	-14.4	Unit B2, High channel, 802.11n, MCS0. EUT vertical.
2484.062	39.7	-0.3	197.0	1.0	3.0	20.0	V-Horn	PK	0.0	59.4	74.0	-14.6	Unit B2, High channel, 802.11g, 36 Mbps. EUT on side.
4924.000	29.2	9.4	348.0	1.8	3.0	0.0	H-Horn	AV	0.0	38.6	54.0	-15.4	Unit B2, High channel, 802.11b, 1 Mbps. EUT vertical.
4924.017	28.6	9.4	51.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.0	54.0	-16.0	Unit B2, High channel, 802.11b, 1 Mbps. EUT on side.
4923.983	28.5	9.4	45.0	1.4	3.0	0.0	V-Horn	AV	0.0	37.9	54.0	-16.1	Unit B2, High channel, 802.11b, 1 Mbps. EUT on side.
4924.000	26.5	9.4	0.0	2.8	3.0	0.0	V-Horn	AV	0.0	35.9	54.0	-18.1	Unit B2, High channel, 802.11b, 1 Mbps. EUT vertical.
7313.767	37.7	17.6	217.0	1.0	3.0	0.0	H-Horn	PK	0.0	55.3	74.0	-18.7	Unit B2, Mid channel, 802.11b, 1 Mbps. EUT vertical.
7387.200	36.9	17.8	10.0	2.5	3.0	0.0	H-Horn	PK	0.0	54.7	74.0	-19.3	Unit B2, High channel, 802.11g, 36 Mbps. EUT vertical.
7388.800	36.9	17.8	190.0	1.0	3.0	0.0	V-Horn	PK	0.0	54.7	74.0	-19.3	Unit B2, High channel, 802.11g, 36 Mbps. EUT on side.
7387.633	36.8	17.8	61.0	1.0	3.0	0.0	H-Horn	PK	0.0	54.6	74.0	-19.4	Unit B2, High channel, 802.11b, 11 Mbps. EUT vertical.
7305.317	36.9	17.6	67.0	1.0	3.0	0.0	V-Horn	PK	0.0	54.5	74.0	-19.5	Unit B2, Mid channel, 802.11b, 1 Mbps. EUT face up.
7307.133	36.9	17.6	31.0	1.0	3.0	0.0	V-Horn	PK	0.0	54.5	74.0	-19.5	Unit B2, Mid channel, 802.11b, 1 Mbps. EUT vertical.
7382.517	36.7	17.8	23.0	2.5	3.0	0.0	H-Horn	PK	0.0	54.5	74.0	-19.5	Unit B2, High channel, 802.11g, 54 Mbps. EUT vertical.
7386.233	36.6	17.8	226.0	2.7	3.0	0.0	V-Horn	PK	0.0	54.4	74.0	-19.6	Unit B2, High channel, 802.11g, 54 Mbps. EUT on side.
4923.867	24.9	9.4	99.0	1.8	3.0	0.0	H-Horn	AV	0.0	34.3	54.0	-19.7	Unit B2, High channel, 802.11b, 1 Mbps. EUT face up.
4924.117	24.8	9.4	95.0	2.3	3.0	0.0	V-Horn	AV	0.0	34.2	54.0	-19.8	Unit B2, High channel, 802.11b, 1 Mbps. EUT face up.
7307.983	36.5	17.6	335.0	1.0	3.0	0.0	V-Horn	PK	0.0	54.1	74.0	-19.9	Unit B2, Mid channel, 802.11b, 1 Mbps. EUT on side.
7314.067	36.5	17.6	298.0	1.0	3.0	0.0	H-Horn	PK	0.0	54.1	74.0	-19.9	Unit B2, Mid channel, 802.11b, 1 Mbps. EUT face up.
7380.583	36.3	17.8	207.0	1.0	3.0	0.0	V-Horn	PK	0.0	54.1	74.0	-19.9	Unit B2, High channel, 802.11b, 11 Mbps. EUT on side.
7311.967	36.3	17.6	3.0	2.9	3.0	0.0	H-Horn	PK	0.0	53.9	74.0	-20.1	Unit B2, Mid channel, 802.11b, 1 Mbps. EUT on side.
4923.967	38.6	9.4	348.0	1.8	3.0	0.0	H-Horn	PK	0.0	48.0	74.0	-26.0	Unit B2, High channel, 802.11b, 1 Mbps. EUT vertical.
4923.883	38.2	9.4	51.0	1.0	3.0	0.0	H-Horn	PK	0.0	47.6	74.0	-26.4	Unit B2, High channel, 802.11b, 1 Mbps. EUT on side.
4924.167	38.1	9.4	45.0	1.4	3.0	0.0	V-Horn	PK	0.0	47.5	74.0	-26.5	Unit B2, High channel, 802.11b, 1 Mbps. EUT on side.
4924.967	37.7	9.4	95.0	2.3	3.0	0.0	V-Horn	PK	0.0	47.1	74.0	-26.9	Unit B2, High channel, 802.11b, 1 Mbps. EUT face up.

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
4924.050	37.2	9.4	0.0	2.8	3.0	0.0	V-Horn	PK	0.0	46.6	74.0	-27.4	Unit B2, High channel, 802.11b, 1 Mbps. EUT vertical.
4928.150	37.2	9.4	99.0	1.8	3.0	0.0	H-Horn	PK	0.0	46.6	74.0	-27.4	Unit B2, High channel, 802.11b, 1 Mbps. EUT face up.

NORTHWEST EMC

SPURIOUS RADIATED EMISSIONS

PSA 2008.07.21
EMI 2008.1.9

EUT:	1001CP01	Work Order:	INMC0650
Serial Number:	2831147306	Date:	12/06/10
Customer:	Intermec Technologies Corporation	Temperature:	23.0 °C
Attendees:	none	Humidity:	30%
Project:	None	Barometric Pres.:	1017.2 mb
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247:2010	ANSI C63.10:2009

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

COMMENTS

See Comments

EUT OPERATING MODES

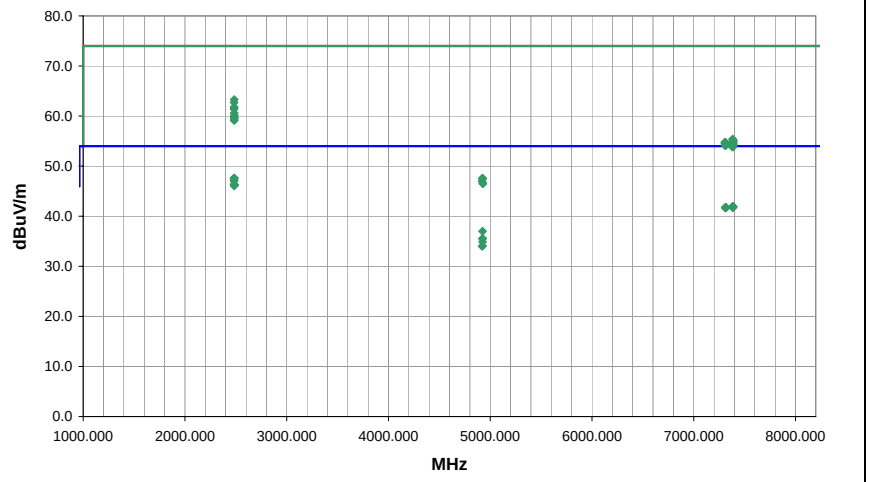
WiFi Continuous Tx.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	3
Configuration #	3
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
2483.502	27.9	-0.3	26.0	1.0	3.0	20.0	H-Horn	AV	0.0	47.6	54.0	-6.4	Unit C2, High channel, 802.11n, MCS0, EUT vertical.
2483.565	27.9	-0.3	153.0	1.0	3.0	20.0	H-Horn	AV	0.0	47.6	54.0	-6.4	Unit C2, High channel, 802.11n, MCS0, EUT face up.
2483.612	27.9	-0.3	45.0	1.1	3.0	20.0	V-Horn	AV	0.0	47.6	54.0	-6.4	Unit C2, High channel, 802.11g, 6 Mbps, EUT on side.
2483.538	27.8	-0.3	40.0	1.0	3.0	20.0	V-Horn	AV	0.0	47.5	54.0	-6.5	Unit C2, High channel, 802.11n, MCS0, EUT on side.
2483.548	27.5	-0.3	25.0	1.0	3.0	20.0	H-Horn	AV	0.0	47.2	54.0	-6.8	Unit C2, High channel, 802.11n, MCS0, EUT on side.
2483.508	27.3	-0.3	54.0	1.5	3.0	20.0	H-Horn	AV	0.0	47.0	54.0	-7.0	Unit C2, High channel, 802.11g, 6 Mbps, EUT vertical.
2483.502	26.6	-0.3	74.0	1.0	3.0	20.0	V-Horn	AV	0.0	46.3	54.0	-7.7	Unit C2, High channel, 802.11n, MCS0, EUT vertical.
2483.825	26.6	-0.3	285.0	1.0	3.0	20.0	V-Horn	AV	0.0	46.3	54.0	-7.7	Unit C2, High channel, 802.11g, 36 Mbps, EUT on side.
2483.868	26.6	-0.3	159.0	1.0	3.0	20.0	V-Horn	AV	0.0	46.3	54.0	-7.7	Unit C2, High channel, 802.11n, MCS7, EUT on side.
2484.170	26.6	-0.3	209.0	1.0	3.0	20.0	H-Horn	AV	0.0	46.3	54.0	-7.7	Unit C2, High channel, 802.11g, 36 Mbps, EUT vertical.
2483.905	26.4	-0.3	268.0	1.0	3.0	20.0	H-Horn	AV	0.0	46.1	54.0	-7.9	Unit C2, High channel, 802.11n, MCS7s, EUT vertical.
2484.860	26.4	-0.3	249.0	1.0	3.0	20.0	V-Horn	AV	0.0	46.1	54.0	-7.9	Unit C2, High channel, 802.11n, MCS0, EUT face up.
2483.680	43.6	-0.3	26.0	1.0	3.0	20.0	H-Horn	PK	0.0	63.3	74.0	-10.7	Unit C2, High channel, 802.11n, MCS0, EUT vertical.
2483.507	43.0	-0.3	45.0	1.1	3.0	20.0	V-Horn	PK	0.0	62.7	74.0	-11.3	Unit C2, High channel, 802.11g, 6 Mbps, EUT on side.
7381.500	24.1	17.8	148.0	2.5	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	Unit C2, High channel, 802.11g, 54 Mbps, EUT on side.
7382.183	24.1	17.8	5.0	3.4	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	Unit C2, High channel, 802.11b, 11 Mbps, face up.
7382.750	24.1	17.8	222.0	2.8	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	Unit C2, High channel, 802.11g, 54 Mbps, EUT on side.
7383.117	24.1	17.8	138.0	2.8	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	Unit C2, High channel, 802.11g, 36 Mbps, EUT on side.
7383.117	24.1	17.8	117.0	2.4	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	Unit C2, High channel, 802.11g, 54 Mbps, vertical.
7383.167	24.1	17.8	274.0	2.8	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	Unit C2, High channel, 802.11g, 36 Mbps, vertical.
7383.700	24.1	17.8	271.0	2.8	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	Unit C2, High channel, 802.11b, 11 Mbps, vertical.
7383.733	24.1	17.8	195.0	2.8	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	Unit C2, High channel, 802.11g, 54 Mbps, vertical.
7383.950	24.1	17.8	68.0	1.0	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	Unit C2, High channel, 802.11b, 11 Mbps, EUT on side.
7383.967	24.1	17.8	0.0	2.8	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	Unit C2, High channel, 802.11g, 36 Mbps, vertical.
7384.583	24.1	17.8	297.0	2.5	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	Unit C2, High channel, 802.11g, 36 Mbps, EUT on side.
7384.983	24.1	17.8	138.0	3.4	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	Unit C2, High channel, 802.11b, 11 Mbps, vertical.
7385.033	24.1	17.8	277.0	2.8	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	Unit C2, High channel, 802.11g, 54 Mbps, face up.
7311.833	24.2	17.6	274.0	1.0	3.0	0.0	H-Horn	AV	0.0	41.8	54.0	-12.2	Unit C2, Mid channel, 802.11b, 1 Mbps, EUT vertical.
7314.067	24.2	17.6	308.0	1.1	3.0	0.0	V-Horn	AV	0.0	41.8	54.0	-12.2	Unit C2, Mid channel, 802.11b, 1 Mbps, EUT face up.
7382.350	24.0	17.8	353.0	2.8	3.0	0.0	H-Horn	AV	0.0	41.8	54.0	-12.2	Unit C2, High channel, 802.11g, 36 Mbps, face up.
7382.917	24.0	17.8	201.0	1.0	3.0	0.0	V-Horn	AV	0.0	41.8	54.0	-12.2	Unit C2, High channel, 802.11b, 11 Mbps, EUT on side.
7384.233	24.0	17.8	76.0	3.4	3.0	0.0	V-Horn	AV	0.0	41.8	54.0	-12.2	Unit C2, High channel, 802.11g, 54 Mbps, face up.
7384.950	24.0	17.8	318.0	3.4	3.0	0.0	V-Horn	AV	0.0	41.8	54.0	-12.2	Unit C2, High channel, 802.11g, 36 Mbps, face up.
7386.233	24.0	17.8	342.0	2.8	3.0	0.0	H-Horn	AV	0.0	41.8	54.0	-12.2	Unit C2, High channel, 802.11b, 11 Mbps, face up.
2484.273	42.1	-0.3	153.0	1.0	3.0	20.0	H-Horn	PK	0.0	61.8	74.0	-12.2	Unit C2, High channel, 802.11n, MCS0, EUT face up.
7310.900	24.1	17.6	144.0	1.1	3.0	0.0	V-Horn	AV	0.0	41.7	54.0	-12.3	Unit C2, Mid channel, 802.11b, 1 Mbps, EUT vertical.
7311.583	24.1	17.6	181.0	1.0	3.0	0.0	H-Horn	AV	0.0	41.7	54.0	-12.3	Unit C2, Mid channel, 802.11b, 1 Mbps, EUT on side.
7314.600	24.1	17.6	298.0	1.0	3.0	0.0	H-Horn	AV	0.0	41.7	54.0	-12.3	Unit C2, Mid channel, 802.11b, 1 Mbps, EUT face up.
7314.633	24.1	17.6	252.0	1.0	3.0	0.0	V-Horn	AV	0.0	41.7	54.0	-12.3	Unit C2, Mid channel, 802.11b, 1 Mbps, EUT on side.
2483.553	42.0	-0.3	40.0	1.0	3.0	20.0	V-Horn	PK	0.0	61.7	74.0	-12.3	Unit C2, High channel, 802.11n, MCS0, EUT on side.
2483.555	41.7	-0.3	25.0	1.0	3.0	20.0	H-Horn	PK	0.0	61.4	74.0	-12.6	Unit C2, High channel, 802.11n, MCS0, EUT on side.
2483.847	40.9	-0.3	54.0	1.5	3.0	20.0	H-Horn	PK	0.0	60.6	74.0	-13.4	Unit C2, High channel, 802.11g, 6 Mbps, EUT vertical.
2483.913	40.4	-0.3	285.0	1.0	3.0	20.0	V-Horn	PK	0.0	60.1	74.0	-13.9	Unit C2, High channel, 802.11g, 36 Mbps, EUT on side.
2483.663	40.1	-0.3	159.0	1.0	3.0	20.0	V-Horn	PK	0.0	59.8	74.0	-14.2	Unit C2, High channel, 802.11n, MCS7, EUT on side.
2484.017	40.0	-0.3	74.0	1.0	3.0	20.0	V-Horn	PK	0.0	59.7	74.0	-14.3	Unit C2, High channel, 802.11n, MCS0, EUT vertical.
2483.748	39.8	-0.3	268.0	1.0	3.0	20.0	H-Horn	PK	0.0	59.5	74.0	-14.5	Unit C2, High channel, 802.11n, MCS7s, EUT vertical.
2483.867	39.8	-0.3	249.0	1.0	3.0	20.0	V-Horn	PK	0.0	59.5	74.0	-14.5	Unit C2, High channel, 802.11n, MCS0, EUT face up.
2484.267	39.4	-0.3	209.0	1.0	3.0	20.0	H-Horn	PK	0.0	59.1	74.0	-14.9	Unit C2, High channel, 802.11g, 36 Mbps, EUT vertical.
4924.017	27.6	9.4	174.0	1.0	3.0	0.0	H-Horn	AV	0.0	37.0	54.0	-17.0	Unit C2, High channel, 802.11b, 1 Mbps, EUT face up.
4924.017	26.2	9.4	3.0	1.0	3.0	0.0	H-Horn	AV	0.0	35.6	54.0	-18.4	Unit C2, High channel, 802.11b, 1 Mbps, EUT on side.
4924.033	26.1	9.4	26.0	1.0	3.0	0.0	V-Horn	AV	0.0	35.5	54.0	-18.5	Unit C2, High channel, 802.11b, 1 Mbps, EUT vertical.
7381.600	37.6	17.8	201.0	1.0	3.0	0.0	V-Horn	PK	0.0	55.4	74.0	-18.6	Unit C2, High channel, 802.11b, 11 Mbps, EUT on side.
7383.633	37.5	17.8	222.0	2.8	3.0	0.0	H-Horn	PK	0.0	55.3	74.0	-18.7	Unit C2, High channel, 802.11g, 54 Mbps, EUT on side.
7388.100	37.3	17.8	117.0	2.4	3.0	0.0	V-Horn	PK	0.0	55.1	74.0	-18.9	Unit C2, High channel, 802.11g, 54 Mbps, vertical.
7388.133	37.2	17.8	353.0	2.8	3.0	0.0	H-Horn	PK	0.0	55.0	74.0	-19.0	Unit C2, High channel, 802.11g, 36 Mbps, face up.
4924.083	25.5	9.4	176.0	1.0	3.0	0.0	V-Horn	AV	0.0	34.9	54.0	-19.1	Unit C2, High channel, 802.11b, 1 Mbps, EUT on side.
7382.350	37.1	17.8	297.0	2.5	3.0	0.0	V-Horn	PK	0.0	54.9	74.0	-19.1	Unit C2, High channel, 802.11g, 36 Mbps, EUT on side.
7384.633	37.1	17.8	148.0	2.5	3.0	0.0	V-Horn	PK	0.0	54.9	74.0	-19.1	Unit C2, High channel, 802.11g, 54 Mbps, EUT on side.

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
7307.517	37.2	17.6	181.0	1.0	3.0	0.0	H-Horn	PK	0.0	54.8	74.0	-19.2	Unit C2, Mid channel, 802.11b, 1 Mbps, EUT on side.
7309.700	37.2	17.6	144.0	1.1	3.0	0.0	V-Horn	PK	0.0	54.8	74.0	-19.2	Unit C2, Mid channel, 802.11b, 1 Mbps, EUT vertical.
7386.333	37.0	17.8	195.0	2.8	3.0	0.0	H-Horn	PK	0.0	54.8	74.0	-19.2	Unit C2, High channel, 802.11g, 54 Mbps, vertical.
7305.367	37.0	17.6	308.0	1.1	3.0	0.0	V-Horn	PK	0.0	54.6	74.0	-19.4	Unit C2, Mid channel, 802.11b, 1 Mbps, EUT face up.
7381.167	36.8	17.8	138.0	3.4	3.0	0.0	V-Horn	PK	0.0	54.6	74.0	-19.4	Unit C2, High channel, 802.11b, 11 Mbps, vertical.
7382.867	36.7	17.8	68.0	1.0	3.0	0.0	H-Horn	PK	0.0	54.5	74.0	-19.5	Unit C2, High channel, 802.11b, 11 Mbps, EUT on side.
7383.000	36.7	17.8	271.0	2.8	3.0	0.0	H-Horn	PK	0.0	54.5	74.0	-19.5	Unit C2, High channel, 802.11b, 11 Mbps, vertical.
7388.100	36.7	17.8	342.0	2.8	3.0	0.0	H-Horn	PK	0.0	54.5	74.0	-19.5	Unit C2, High channel, 802.11b, 11 Mbps, face up.
7384.333	36.6	17.8	274.0	2.8	3.0	0.0	H-Horn	PK	0.0	54.4	74.0	-19.6	Unit C2, High channel, 802.11g, 36 Mbps, vertical.
7310.583	36.7	17.6	252.0	1.0	3.0	0.0	V-Horn	PK	0.0	54.3	74.0	-19.7	Unit C2, Mid channel, 802.11b, 1 Mbps, EUT on side.
7387.033	36.5	17.8	277.0	2.8	3.0	0.0	H-Horn	PK	0.0	54.3	74.0	-19.7	Unit C2, High channel, 802.11g, 54 Mbps, face up.
7382.000	36.4	17.8	318.0	3.4	3.0	0.0	V-Horn	PK	0.0	54.2	74.0	-19.8	Unit C2, High channel, 802.11g, 36 Mbps, face up.
7383.800	36.4	17.8	76.0	3.4	3.0	0.0	V-Horn	PK	0.0	54.2	74.0	-19.8	Unit C2, High channel, 802.11g, 54 Mbps, face up.
7310.517	36.5	17.6	274.0	1.0	3.0	0.0	H-Horn	PK	0.0	54.1	74.0	-19.9	Unit C2, Mid channel, 802.11b, 1 Mbps, EUT vertical.
7312.483	36.5	17.6	298.0	1.0	3.0	0.0	H-Horn	PK	0.0	54.1	74.0	-19.9	Unit C2, Mid channel, 802.11b, 1 Mbps, EUT face up.
4924.033	24.7	9.4	272.0	1.0	3.0	0.0	V-Horn	AV	0.0	34.1	54.0	-19.9	Unit C2, High channel, 802.11b, 1 Mbps, EUT face up.
7384.283	36.3	17.8	0.0	2.8	3.0	0.0	V-Horn	PK	0.0	54.1	74.0	-19.9	Unit C2, High channel, 802.11g, 36 Mbps, vertical.
4919.617	24.6	9.4	149.0	1.0	3.0	0.0	H-Horn	AV	0.0	34.0	54.0	-20.0	Unit C2, High channel, 802.11b, 1 Mbps, EUT vertical.
7389.350	36.1	17.8	138.0	2.8	3.0	0.0	H-Horn	PK	0.0	53.9	74.0	-20.1	Unit C2, High channel, 802.11g, 36 Mbps, EUT on side.
7380.933	36.0	17.8	5.0	3.4	3.0	0.0	V-Horn	PK	0.0	53.8	74.0	-20.2	Unit C2, High channel, 802.11b, 11 Mbps, face up.
4924.117	38.2	9.4	174.0	1.0	3.0	0.0	H-Horn	PK	0.0	47.6	74.0	-26.4	Unit C2, High channel, 802.11b, 1 Mbps, EUT face up.
4922.450	38.1	9.4	26.0	1.0	3.0	0.0	V-Horn	PK	0.0	47.5	74.0	-26.5	Unit C2, High channel, 802.11b, 1 Mbps, EUT vertical.
4924.417	38.1	9.4	272.0	1.0	3.0	0.0	V-Horn	PK	0.0	47.5	74.0	-26.5	Unit C2, High channel, 802.11b, 1 Mbps, EUT face up.
4919.500	37.6	9.4	176.0	1.0	3.0	0.0	V-Horn	PK	0.0	47.0	74.0	-27.0	Unit C2, High channel, 802.11b, 1 Mbps, EUT on side.
4926.550	37.2	9.4	3.0	1.0	3.0	0.0	H-Horn	PK	0.0	46.6	74.0	-27.4	Unit C2, High channel, 802.11b, 1 Mbps, EUT on side.
4927.933	37.1	9.4	149.0	1.0	3.0	0.0	H-Horn	PK	0.0	46.5	74.0	-27.5	Unit C2, High channel, 802.11b, 1 Mbps, EUT vertical.