

# Intermec Technologies Corporation

Bluetooth Module,  
FCC ID: EHABTS080

Report No. INMC0585

Report Prepared By



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

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EMC Test Report

## Certificate of Test

Last Date of Test: May 22, 2010  
Intermec Technologies Corporation  
Model: Bluetooth Module, FCC ID: EHABTS080

Emissions			
Test Description	Specification	Test Method	Pass/Fail
Spurious Radiated Emissions	FCC 15.247:2010	ANSI.C63.10:2009	Pass
AC Powerline Conducted Emissions	FCC 15.207:2010	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:



Don Facteau, IS 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		

**Barometric Pressure**

The recorded barometric pressure has been normalized to sea level.



# Accreditations and Authorizations

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## 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.



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## 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  
NVLAP LAB CODE 200881-0

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## 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*)



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## 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.



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## 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).



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## 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).



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## 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).



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## 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). License No.SL2-IN-E-1017.



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## 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



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## KCC

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



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## 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.



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## SCOPE

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

<http://www.nwemc.com/accreditations/>



# Northwest EMC Locations



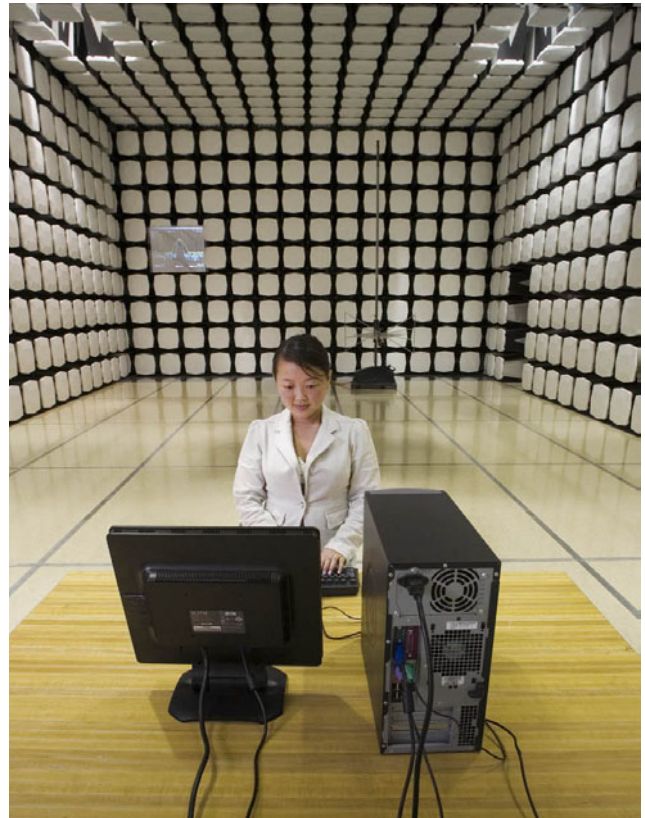
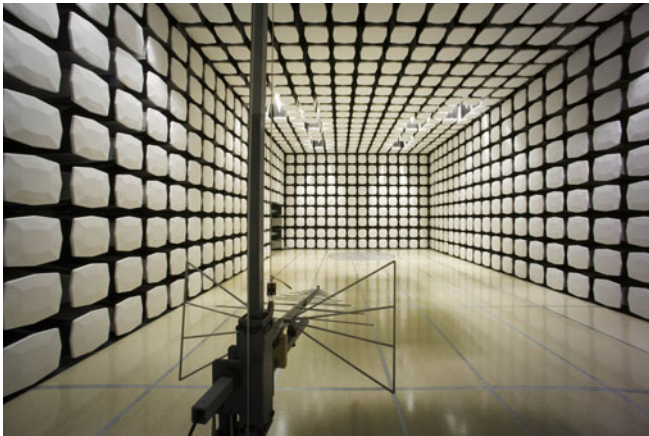
Oregon  
Labs EV01-EV12  
22975 NW Evergreen Pkwy  
Suite 400  
Hillsboro, OR 97124  
(503) 844-4066

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 339<sup>th</sup> 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**

<b>Company Name:</b>	Intermec Technologies Corporation
<b>Address:</b>	6001 36th Avenue West
<b>City, State, Zip:</b>	Everett, WA 98203-1264
<b>Test Requested By:</b>	Sean MacKellar
<b>Model:</b>	Bluetooth Module, FCC ID: EHABTS080
<b>First Date of Test:</b>	May 20, 2010
<b>Last Date of Test:</b>	May 22, 2010
<b>Receipt Date of Samples:</b>	May 19, 2010
<b>Equipment Design Stage:</b>	Production
<b>Equipment Condition:</b>	No Damage

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

Bluetooth Module

**Testing Objective:**

To demonstrate compliance of FCC ID: EHABTS080 to FCC 15.247 requirements while in a stand-alone configuration.

**CONFIGURATION 1 INMC0585**

Software/Firmware Running during test	
Description	Version
BluetestC	Unknown

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Bluetooth Module	Intermec	BTS080	0906003659

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Host hand held computer	Intermec	CK31	33020826067

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Module ribbon cable	No	0.3m	No	Bluetooth Module	Host hand held computer
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

**CONFIGURATION 2 INMC0585**

Software/Firmware Running during test	
Description	Version
BluetestC	Unknown

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Bluetooth Module	Intermec	BTS080	0906003659

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Host hand held computer	Intermec	CK31	33020826067
CK31 battery replacer module	Intermec	None	None
DC Power Supply	Topward	TPS-2000	TPD

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Module ribbon cable	No	0.3m	No	Bluetooth Module	Host hand held computer
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					



<b>Equipment modifications</b>					
Item	Date	Test	Modification	Note	Disposition of EUT
1	5/20/2010	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	5/22/2010	AC Powerline Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

**EMC****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. The test data represents the configuration / operating mode/ model that produced the highest emission levels as compared to the specification limit.

**MODES OF OPERATION**

Transmitting Bluetooth DH5

**CHANNELS TESTED**

Low channel, 2402 MHz

Mid channel, 2441 MHz

High channel, 2480 MHz

**POWER SETTINGS INVESTIGATED**

DC from Host

**CONFIGURATIONS INVESTIGATED**

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**FREQUENCY RANGE INVESTIGATED**

Start Frequency	30 MHz	Stop Frequency	25 GHz
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**CLOCKS AND OSCILLATORS**

None Provided

**SAMPLE CALCULATIONS**

$$\text{Radiated Emissions: Field Strength} = \text{Measured Level} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain} + \text{Distance Adjustment Factor} + \text{External Attenuation}$$
**TEST EQUIPMENT**

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4446A	AAQ	1/6/2010	13 mo
Low Pass Filter 0-1000 MHz	Micro-Tronics	LPM50004	LFD	7/10/2009	13 mo
High Pass Filter	Micro-Tronics	HPM50111	HFO	7/10/2009	13 mo
Pre-Amplifier	Miteq	AM-1616-1000	AOL	7/10/2009	13 mo
Antenna, Biconilog	EMCO	3141	AXE	1/14/2010	13 mo
EV01 Cables	N/A	Bilog Cables	EVA	7/10/2009	13 mo
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	7/10/2009	13 mo
Antenna, Horn	EMCO	3115	AHC	8/12/2008	24 mo
EV01 Cables	N/A	Double Ridge Horn Cables	EVB	7/10/2009	13 mo
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	7/10/2009	13 mo
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVD	7/10/2009	13 mo
Antenna, Horn	ETS	3160-08	AHV	NCR	0 mo
EV01 Cables	N/A	Standard Gain Horns Cables	EVF	4/2/2010	13 mo
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AVU	5/19/2009	13 mo
Antenna, Horn	ETS Lindgren	3160-09	AIV	NCR	0 mo
Pre-Amplifier	Miteq	AM-1616-1000	AVY	7/1/2009	13 mo

**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 IF bandwidths and detectors specified. No video filter was used, except in the case of the FCC Average Measurements above 1GHz. In that case, a peak detector with a 10Hz video bandwidth 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. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

**TEST DESCRIPTION**

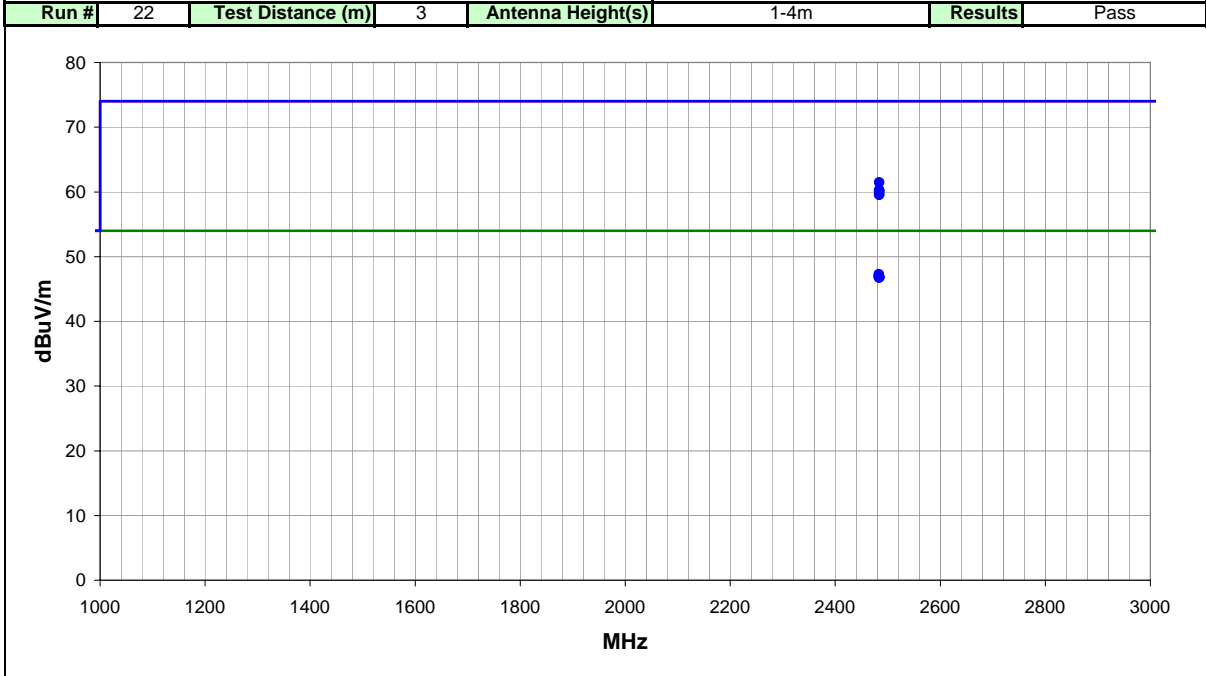
The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify 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.

# EMC

# SPURIOUS RADIATED EMISSIONS

<b>Work Order:</b>	INMC0585	<b>Date:</b>	05/20/10	<i>Rod Peloquin</i>	
<b>Project:</b>	None	<b>Temperature:</b>	22		
<b>Job Site:</b>	EV01	<b>Humidity:</b>	38		
<b>Serial Number:</b>	906003659	<b>Barometric Pres.:</b>	1009.5 mb		
				<b>Tested by:</b>	Rod Peloquin
<b>EUT:</b>	Bluetooth Module, FCC ID: EHABTS080				
<b>Configuration:</b>	1 - Radiated spurious emissions				
<b>Customer:</b>	Intermec Technologies Corporation				
<b>Attendees:</b>	None				
<b>EUT Power:</b>	DC from Host				
<b>Operating Mode:</b>	Transmitting Bluetooth DH5, high channel				
<b>Deviations:</b>	None				
<b>Comments:</b>	Module on extender cable from host hand held computer				

<b>Test Specifications</b> FCC 15.247:2010	<b>Test Method</b> ANSI C63.10:2009						
<b>Run #</b>	22	<b>Test Distance (m)</b>	3	<b>Antenna Height(s)</b>	1-4m	<b>Results</b>	Pass



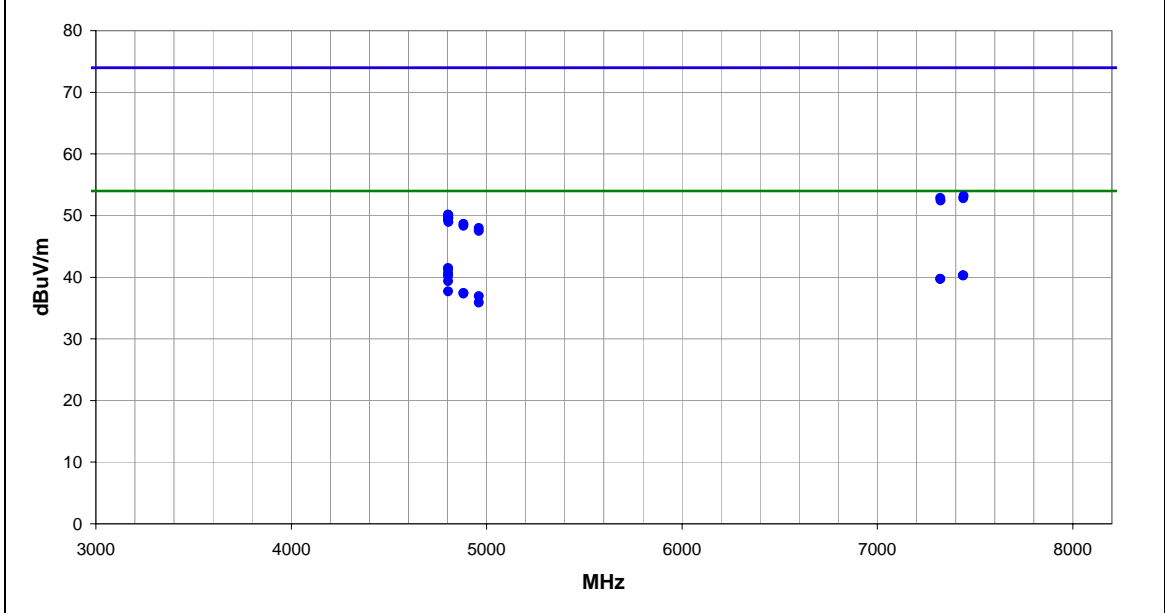
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
2483.500	24.6	2.7	1.0	157.0	3.0	20.0	Horz	AV	0.0	47.3	54.0	-6.7	Module on side
2483.500	24.4	2.7	1.0	290.0	3.0	20.0	Horz	AV	0.0	47.1	54.0	-6.9	Module horizontal
2483.506	24.2	2.7	1.0	42.0	3.0	20.0	Vert	AV	0.0	46.9	54.0	-7.1	Module vertical
2484.427	24.1	2.7	1.0	295.0	3.0	20.0	Vert	AV	0.0	46.8	54.0	-7.2	Module horizontal
2484.137	24.1	2.7	1.0	120.0	3.0	20.0	Vert	AV	0.0	46.8	54.0	-7.2	Module on side
2483.502	24.1	2.7	1.0	40.0	3.0	20.0	Horz	AV	0.0	46.8	54.0	-7.2	Module vertical
2483.593	38.8	2.7	1.0	157.0	3.0	20.0	Horz	PK	0.0	61.5	74.0	-12.5	Module on side
2483.653	37.6	2.7	1.0	120.0	3.0	20.0	Vert	PK	0.0	60.3	74.0	-13.7	Module on side
2483.868	37.4	2.7	1.0	295.0	3.0	20.0	Vert	PK	0.0	60.1	74.0	-13.9	Module horizontal
2483.630	37.4	2.7	1.0	290.0	3.0	20.0	Horz	PK	0.0	60.1	74.0	-13.9	Module horizontal

# EMC SPURIOUS RADIATED EMISSIONS

<b>Work Order:</b>	INMC0585	<b>Date:</b>	05/20/10	<i>Rod Pelouquin</i>
<b>Project:</b>	None	<b>Temperature:</b>	22	
<b>Job Site:</b>	EV01	<b>Humidity:</b>	38	
<b>Serial Number:</b>	906003659	<b>Barometric Pres.:</b>	1009.5 mb	
<b>EUT:</b> Bluetooth Module, FCC ID: EHABTS080		<b>Tested by:</b> Rod Pelouquin		
<b>Configuration:</b> 1 - Radiated spurious emissions				
<b>Customer:</b> Intermec Technologies Corporation				
<b>Attendees:</b> None				
<b>EUT Power:</b> DC from Host				
<b>Operating Mode:</b> Transmitting Bluetooth DH5				
<b>Deviations:</b> None				
<b>Comments:</b> Module on extender cable from host hand held computer				

<b>Test Specifications</b> FCC 15.247:2010	<b>Test Method</b> ANSI C63.10:2009
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<b>Run #</b>	22	<b>Test Distance (m)</b>	3	<b>Antenna Height(s)</b>	1-4m	<b>Results</b>	Pass
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Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Antenna Height (meters)	Azimuth (degrees)	Test Distance (meters)	External Attenuation (dB)	Polarity/Transducer Type	Detector	Distance Adjustment (dB)	Adjusted (dBuV/m)	Spec. Limit (dBuV/m)	Compared to Spec. (dB)	Comments
4804.023	31.9	9.6	1.3	245.0	3.0	0.0	Horz	AV	0.0	41.5	54.0	-12.5	Low channel, module horizontal
4804.020	31.7	9.6	1.3	190.0	3.0	0.0	Vert	AV	0.0	41.3	54.0	-12.7	Low channel, module on side
4804.003	31.1	9.6	1.2	205.0	3.0	0.0	Horz	AV	0.0	40.7	54.0	-13.3	Low channel, module on side
7439.457	23.4	16.9	1.0	32.0	3.0	0.0	Vert	AV	0.0	40.3	54.0	-13.7	High channel, module on side
7439.010	23.4	16.9	1.0	213.0	3.0	0.0	Horz	AV	0.0	40.3	54.0	-13.7	High channel, module horizontal
4804.023	30.6	9.6	1.1	255.0	3.0	0.0	Vert	AV	0.0	40.2	54.0	-13.8	Low channel, module horizontal
7322.073	23.5	16.2	1.0	323.0	3.0	0.0	Horz	AV	0.0	39.7	54.0	-14.3	Mid channel, module horizontal
7322.017	23.5	16.2	3.0	140.0	3.0	0.0	Vert	AV	0.0	39.7	54.0	-14.3	Mid channel, module on side
4803.990	29.8	9.6	1.2	179.0	3.0	0.0	Horz	AV	0.0	39.4	54.0	-14.6	Low channel, module vertical
4804.010	28.1	9.6	1.0	295.0	3.0	0.0	Vert	AV	0.0	37.7	54.0	-16.3	Low channel, module vertical
4881.970	27.7	9.7	1.1	211.0	3.0	0.0	Vert	AV	0.0	37.4	54.0	-16.6	Mid channel, module on side
4881.993	27.6	9.7	1.2	254.0	3.0	0.0	Horz	AV	0.0	37.3	54.0	-16.7	Mid channel, module horizontal
4959.977	26.8	10.1	1.2	332.0	3.0	0.0	Horz	AV	0.0	36.9	54.0	-17.1	High channel, module horizontal
4959.997	25.8	10.1	1.2	76.0	3.0	0.0	Vert	AV	0.0	35.9	54.0	-18.1	High channel, module on side
7440.960	36.3	16.9	1.0	32.0	3.0	0.0	Vert	PK	0.0	53.2	74.0	-20.8	High channel, module on side
7322.813	36.6	16.2	1.0	323.0	3.0	0.0	Horz	PK	0.0	52.8	74.0	-21.2	Mid channel, module horizontal
7439.867	35.9	16.9	1.0	213.0	3.0	0.0	Horz	PK	0.0	52.8	74.0	-21.2	High channel, module horizontal
7323.933	36.2	16.2	3.0	140.0	3.0	0.0	Vert	PK	0.0	52.4	74.0	-21.6	Mid channel, module on side
4803.627	40.6	9.6	1.3	190.0	3.0	0.0	Vert	PK	0.0	50.2	74.0	-23.8	Low channel, module on side
4804.490	40.5	9.6	1.3	245.0	3.0	0.0	Horz	PK	0.0	50.1	74.0	-23.9	Low channel, module horizontal

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 Bluetooth DH5 (15, 339), high channel  
 Transmitting Bluetooth DH5 (15, 339), mid channel  
 Transmitting Bluetooth DH5 (15, 339), low channel

**POWER SETTINGS INVESTIGATED**

120VAC/60Hz

**CONFIGURATIONS INVESTIGATED**

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**SAMPLE CALCULATIONS**

Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator

**TEST EQUIPMENT**

Description	Manufacturer	Model	ID	Last Cal.	Interval
Receiver	Rohde & Schwarz	ESCI	ARE	4/29/2010	12 mo
Attenuator	Coaxicom	66702 2910-20	ATO	7/21/2009	13 mo
High Pass Filter	TTE	H97-100K-50-720B	HFX	2/16/2010	13 mo
LISN	Solar	9252-50-R-24-BNC	LIP	3/2/2010	13 mo
EV07 Cables	N/A	Conducted Cables	EVG	6/1/2009	13 mo

**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. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

**TEST DESCRIPTION**

Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the line-to-ground radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Equipment is tested with power cords that are normally used or that have electrical or shielding characteristics that are the same as those cords normally used. Typically those measurements are made using a LISN (Line Impedance Stabilization Network), the 50ohm measuring port is terminated by a 50ohm EMI meter or a 50ohm resistive load. All 50ohm measuring ports of the LISN are terminated by 50ohm.

# EMC

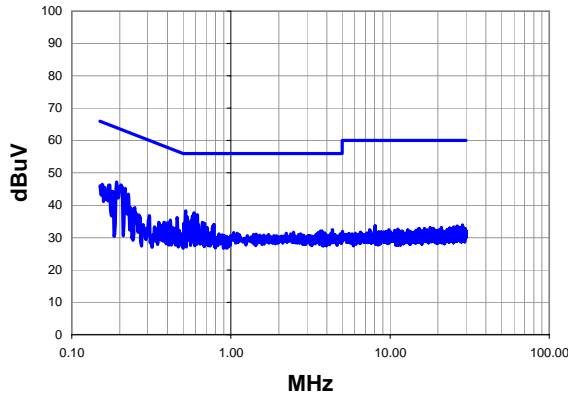
## AC POWERLINE CONDUCTED EMISSIONS

<b>Work Order:</b>	INMC0585	<b>Date:</b>	05/22/10	<i>Rod Pelouin</i> <b>Tested by:</b> Rod Pelouin
<b>Project:</b>	None	<b>Temperature:</b>	22	
<b>Job Site:</b>	EV07	<b>Humidity:</b>	38	
<b>Serial Number:</b>	906003659	<b>Barometric Pres.:</b>	1009.5 mb	
<b>EUT:</b>	Bluetooth Module, FCC ID: EHABTS080			
<b>Configuration:</b>	2 - AC Powerline Conducted Emissions			
<b>Customer:</b>	Intermec Technologies Corporation			
<b>Attendees:</b>	None			
<b>EUT Power:</b>	120VAC/60Hz			
<b>Operating Mode:</b>	Transmitting Bluetooth DH5 (15, 339), low channel			
<b>Deviations:</b>	No deviations.			
<b>Comments:</b>	Module on extender cable from host hand held computer			

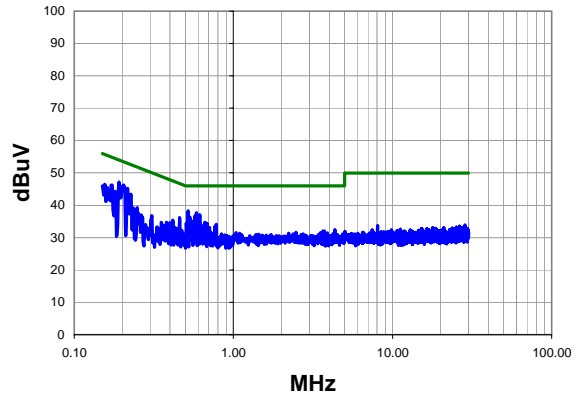
<b>Test Specifications</b> FCC 15.207:2010	<b>Test Method</b> ANSI C63.10:2009
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<b>Run #</b>	3	<b>Line:</b>	High Line	<b>Ext. Attenuation:</b>	20	<b>Results</b>	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.191	27.0	20.2	47.2	64.0	-16.8
0.204	26.1	20.2	46.3	63.4	-17.2
0.519	18.1	20.2	38.3	56.0	-17.7
0.216	25.0	20.2	45.2	63.0	-17.8
0.585	17.5	20.2	37.7	56.0	-18.3
0.172	26.1	20.2	46.3	64.9	-18.6
0.614	16.9	20.2	37.1	56.0	-18.9
0.227	23.3	20.2	43.5	62.6	-19.1
0.155	26.3	20.2	46.5	65.7	-19.3
0.572	16.5	20.2	36.7	56.0	-19.3
0.533	16.2	20.2	36.4	56.0	-19.6
0.160	25.3	20.2	45.5	65.5	-20.0
0.181	24.2	20.2	44.4	64.5	-20.1
0.459	16.0	20.2	36.2	56.7	-20.5
0.563	15.0	20.2	35.2	56.0	-20.8
0.662	14.5	20.2	34.7	56.0	-21.3
0.682	14.2	20.2	34.4	56.0	-21.6
0.781	13.9	20.2	34.1	56.0	-21.9
0.607	13.8	20.2	34.0	56.0	-22.0
0.626	13.8	20.2	34.0	56.0	-22.0

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.191	27.0	20.2	47.2	54.0	-6.8
0.204	26.1	20.2	46.3	53.4	-7.2
0.519	18.1	20.2	38.3	46.0	-7.7
0.216	25.0	20.2	45.2	53.0	-7.8
0.585	17.5	20.2	37.7	46.0	-8.3
0.172	26.1	20.2	46.3	54.9	-8.6
0.614	16.9	20.2	37.1	46.0	-8.9
0.227	23.3	20.2	43.5	52.6	-9.1
0.155	26.3	20.2	46.5	55.7	-9.3
0.572	16.5	20.2	36.7	46.0	-9.3
0.533	16.2	20.2	36.4	46.0	-9.6
0.160	25.3	20.2	45.5	55.5	-10.0
0.181	24.2	20.2	44.4	54.5	-10.1
0.459	16.0	20.2	36.2	46.7	-10.5
0.563	15.0	20.2	35.2	46.0	-10.8
0.662	14.5	20.2	34.7	46.0	-11.3
0.682	14.2	20.2	34.4	46.0	-11.6
0.781	13.9	20.2	34.1	46.0	-11.9
0.607	13.8	20.2	34.0	46.0	-12.0
0.626	13.8	20.2	34.0	46.0	-12.0

# EMC

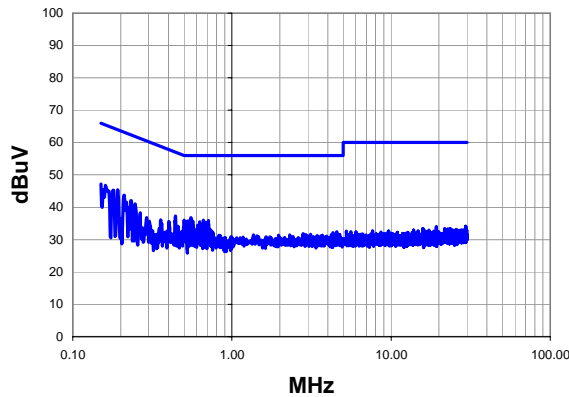
## AC POWERLINE CONDUCTED EMISSIONS

<b>Work Order:</b>	INMC0585	<b>Date:</b>	05/22/10	<i>Roddy Le Pelouin</i>
<b>Project:</b>	None	<b>Temperature:</b>	22	
<b>Job Site:</b>	EV07	<b>Humidity:</b>	38	
<b>Serial Number:</b>	906003659	<b>Barometric Pres.:</b>	1009.5 mb	
<b>EUT:</b>	Bluetooth Module, FCC ID: EHABTS080			
<b>Configuration:</b>	2 - AC Powerline Conducted Emissions			
<b>Customer:</b>	Intermec Technologies Corporation			
<b>Attendees:</b>	None			
<b>EUT Power:</b>	120VAC/60Hz			
<b>Operating Mode:</b>	Transmitting Bluetooth DH5 (15, 339), low channel			
<b>Deviations:</b>	No deviations.			
<b>Comments:</b>	Module on extender cable from host hand held computer			

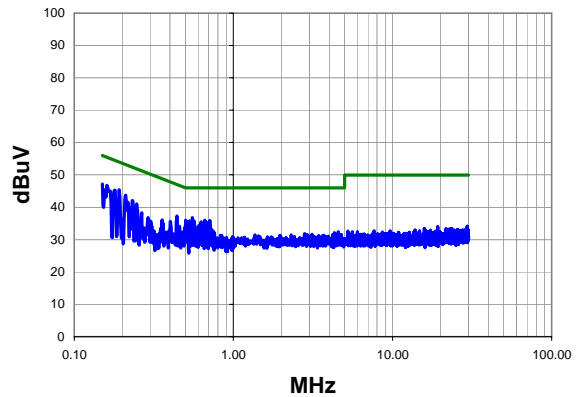
<b>Test Specifications</b> FCC 15.207:2010	<b>Test Method</b> ANSI C63.10:2009
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<b>Run #</b>	4	<b>Line:</b>	Neutral	<b>Ext. Attenuation:</b>	20	<b>Results</b>	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.191	25.2	20.2	45.4	64.0	-18.6
0.160	26.6	20.2	46.8	65.5	-18.7
0.150	27.0	20.2	47.2	66.0	-18.8
0.553	16.6	20.2	36.8	56.0	-19.2
0.179	25.1	20.2	45.3	64.5	-19.3
0.211	23.6	20.2	43.8	63.2	-19.4
0.442	17.1	20.2	37.3	57.0	-19.7
0.662	15.8	20.2	36.0	56.0	-20.0
0.502	15.8	20.2	36.0	56.0	-20.0
0.711	15.7	20.2	35.9	56.0	-20.1
0.529	15.6	20.2	35.8	56.0	-20.2
0.567	15.5	20.2	35.7	56.0	-20.3
0.232	21.9	20.2	42.1	62.4	-20.3
0.516	15.4	20.2	35.6	56.0	-20.4
0.628	15.3	20.2	35.5	56.0	-20.5
0.682	15.1	20.2	35.3	56.0	-20.7
0.247	20.9	20.2	41.1	61.9	-20.8
0.646	14.3	20.2	34.5	56.0	-21.5
0.609	14.2	20.2	34.4	56.0	-21.6
0.573	14.0	20.2	34.2	56.0	-21.8

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.191	25.2	20.2	45.4	54.0	-8.6
0.160	26.6	20.2	46.8	55.5	-8.7
0.150	27.0	20.2	47.2	56.0	-8.8
0.553	16.6	20.2	36.8	46.0	-9.2
0.179	25.1	20.2	45.3	54.5	-9.3
0.211	23.6	20.2	43.8	53.2	-9.4
0.442	17.1	20.2	37.3	47.0	-9.7
0.662	15.8	20.2	36.0	46.0	-10.0
0.502	15.8	20.2	36.0	46.0	-10.0
0.711	15.7	20.2	35.9	46.0	-10.1
0.529	15.6	20.2	35.8	46.0	-10.2
0.567	15.5	20.2	35.7	46.0	-10.3
0.232	21.9	20.2	42.1	52.4	-10.3
0.516	15.4	20.2	35.6	46.0	-10.4
0.628	15.3	20.2	35.5	46.0	-10.5
0.682	15.1	20.2	35.3	46.0	-10.7
0.247	20.9	20.2	41.1	51.9	-10.8
0.646	14.3	20.2	34.5	46.0	-11.5
0.609	14.2	20.2	34.4	46.0	-11.6
0.573	14.0	20.2	34.2	46.0	-11.8



# EMC

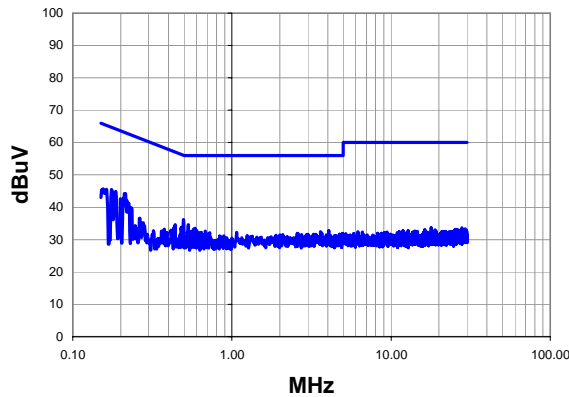
## AC POWERLINE CONDUCTED EMISSIONS

<b>Work Order:</b>	INMC0585	<b>Date:</b>	05/22/10	<i>Rod Peloquin</i> <b>Tested by:</b> Rod Peloquin
<b>Project:</b>	None	<b>Temperature:</b>	22	
<b>Job Site:</b>	EV07	<b>Humidity:</b>	38	
<b>Serial Number:</b>	906003659	<b>Barometric Pres.:</b>	1009.5 mb	
<b>EUT:</b>	Bluetooth Module, FCC ID: EHABTS080			
<b>Configuration:</b>	2 - AC Powerline Conducted Emissions			
<b>Customer:</b>	Intermec Technologies Corporation			
<b>Attendees:</b>	None			
<b>EUT Power:</b>	120VAC/60Hz			
<b>Operating Mode:</b>	Transmitting Bluetooth DH5 (15, 339), mid channel			
<b>Deviations:</b>	No deviations.			
<b>Comments:</b>	Module on extender cable from host hand held computer			

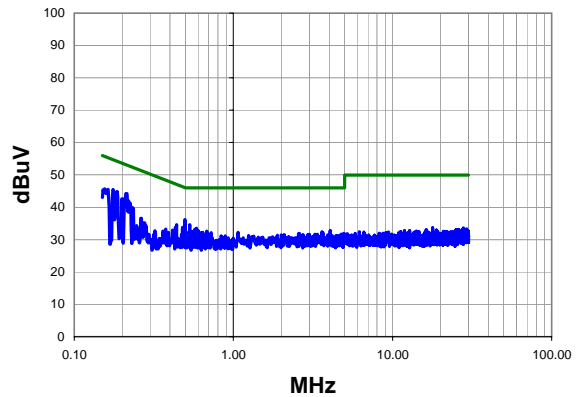
<b>Test Specifications</b> FCC 15.207:2010	<b>Test Method</b> ANSI C63.10:2009
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<b>Run #</b>	5	<b>Line:</b> High Line	<b>Ext. Attenuation:</b> 20	<b>Results</b>	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.211	24.1	20.2	44.3	63.2	-18.9
0.176	25.3	20.2	45.5	64.7	-19.2
0.186	24.7	20.2	44.9	64.2	-19.4
0.497	16.0	20.2	36.2	56.1	-19.9
0.155	25.5	20.2	45.7	65.7	-20.1
0.220	21.8	20.2	42.0	62.8	-20.9
0.199	22.5	20.2	42.7	63.6	-21.0
0.531	14.4	20.2	34.6	56.0	-21.4
0.483	13.7	20.2	33.9	56.3	-22.4
0.587	13.4	20.2	33.6	56.0	-22.4
0.233	19.7	20.2	39.9	62.3	-22.5
0.439	14.4	20.2	34.6	57.1	-22.5
0.572	13.1	20.2	33.3	56.0	-22.7
0.599	12.7	20.2	32.9	56.0	-23.1
4.056	12.5	20.3	32.8	56.0	-23.2
0.680	12.5	20.2	32.7	56.0	-23.3
0.553	12.4	20.2	32.6	56.0	-23.4
0.432	13.6	20.2	33.8	57.2	-23.4
3.608	12.1	20.3	32.4	56.0	-23.6
1.072	12.1	20.2	32.3	56.0	-23.7

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.211	24.1	20.2	44.3	53.2	-8.9
0.176	25.3	20.2	45.5	54.7	-9.2
0.186	24.7	20.2	44.9	54.2	-9.4
0.497	16.0	20.2	36.2	46.1	-9.9
0.155	25.5	20.2	45.7	55.7	-10.1
0.220	21.8	20.2	42.0	52.8	-10.9
0.199	22.5	20.2	42.7	53.6	-11.0
0.531	14.4	20.2	34.6	46.0	-11.4
0.483	13.7	20.2	33.9	46.3	-12.4
0.587	13.4	20.2	33.6	46.0	-12.4
0.233	19.7	20.2	39.9	52.3	-12.5
0.439	14.4	20.2	34.6	47.1	-12.5
0.572	13.1	20.2	33.3	46.0	-12.7
0.599	12.7	20.2	32.9	46.0	-13.1
4.056	12.5	20.3	32.8	46.0	-13.2
0.680	12.5	20.2	32.7	46.0	-13.3
0.553	12.4	20.2	32.6	46.0	-13.4
0.432	13.6	20.2	33.8	47.2	-13.4
3.608	12.1	20.3	32.4	46.0	-13.6
1.072	12.1	20.2	32.3	46.0	-13.7

# EMC

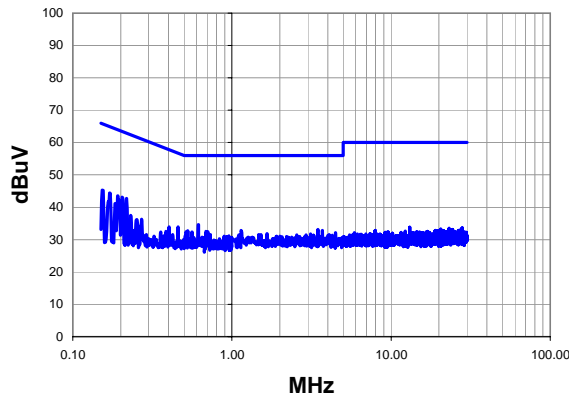
## AC POWERLINE CONDUCTED EMISSIONS

<b>Work Order:</b>	INMC0585	<b>Date:</b>	05/22/10	<i>Rod Peloquin</i> <b>Tested by:</b> Rod Peloquin
<b>Project:</b>	None	<b>Temperature:</b>	22	
<b>Job Site:</b>	EV07	<b>Humidity:</b>	38	
<b>Serial Number:</b>	906003659	<b>Barometric Pres.:</b>	1009.5 mb	
<b>EUT:</b>	Bluetooth Module, FCC ID: EHABTS080			
<b>Configuration:</b>	2 - AC Powerline Conducted Emissions			
<b>Customer:</b>	Intermec Technologies Corporation			
<b>Attendees:</b>	None			
<b>EUT Power:</b>	120VAC/60Hz			
<b>Operating Mode:</b>	Transmitting Bluetooth DH5 (15, 339), mid channel			
<b>Deviations:</b>	No deviations.			
<b>Comments:</b>	Module on extender cable from host hand held computer			

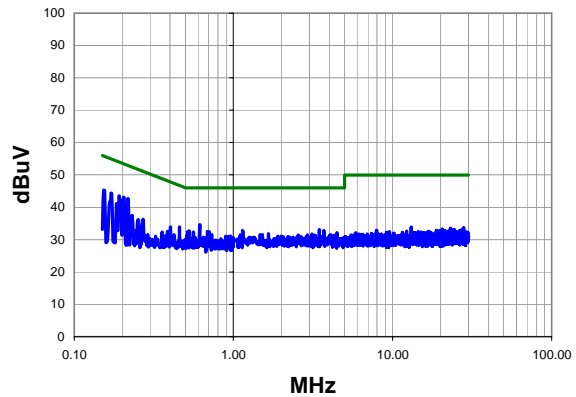
<b>Test Specifications</b> FCC 15.207:2010	<b>Test Method</b> ANSI C63.10:2009
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<b>Run #</b>	6	<b>Line:</b>	Neutral	<b>Ext. Attenuation:</b>	20	<b>Results</b>	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.218	22.6	20.2	42.8	62.9	-20.1
0.204	23.0	20.2	43.2	63.4	-20.3
0.191	23.4	20.2	43.6	64.0	-20.4
0.170	24.3	20.2	44.5	64.9	-20.5
0.153	25.1	20.2	45.3	65.8	-20.6
0.614	14.4	20.2	34.6	56.0	-21.4
0.458	13.8	20.2	34.0	56.7	-22.8
3.464	12.8	20.3	33.1	56.0	-22.9
0.184	21.0	20.2	41.2	64.3	-23.1
3.704	12.5	20.3	32.8	56.0	-23.2
1.144	12.6	20.2	32.8	56.0	-23.2
0.527	12.6	20.2	32.8	56.0	-23.2
0.687	12.4	20.2	32.6	56.0	-23.4
0.704	12.3	20.2	32.5	56.0	-23.5
0.516	12.3	20.2	32.5	56.0	-23.5
0.560	12.2	20.2	32.4	56.0	-23.6
0.403	13.8	20.2	34.0	57.8	-23.8
4.480	11.8	20.3	32.1	56.0	-23.9
1.664	11.6	20.2	31.8	56.0	-24.2
3.120	11.4	20.3	31.7	56.0	-24.3

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.218	22.6	20.2	42.8	52.9	-10.1
0.204	23.0	20.2	43.2	53.4	-10.3
0.191	23.4	20.2	43.6	54.0	-10.4
0.170	24.3	20.2	44.5	54.9	-10.5
0.153	25.1	20.2	45.3	55.8	-10.6
0.614	14.4	20.2	34.6	46.0	-11.4
0.458	13.8	20.2	34.0	46.7	-12.8
3.464	12.8	20.3	33.1	46.0	-12.9
0.184	21.0	20.2	41.2	54.3	-13.1
3.704	12.5	20.3	32.8	46.0	-13.2
1.144	12.6	20.2	32.8	46.0	-13.2
0.527	12.6	20.2	32.8	46.0	-13.2
0.687	12.4	20.2	32.6	46.0	-13.4
0.704	12.3	20.2	32.5	46.0	-13.5
0.516	12.3	20.2	32.5	46.0	-13.5
0.560	12.2	20.2	32.4	46.0	-13.6
0.403	13.8	20.2	34.0	47.8	-13.8
4.480	11.8	20.3	32.1	46.0	-13.9
1.664	11.6	20.2	31.8	46.0	-14.2
3.120	11.4	20.3	31.7	46.0	-14.3

# EMC

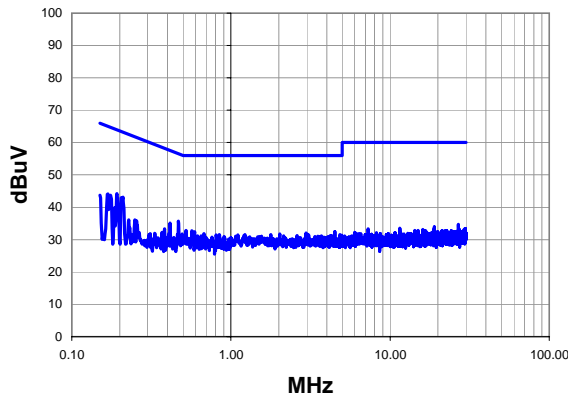
## AC POWERLINE CONDUCTED EMISSIONS

<b>Work Order:</b>	INMC0585	<b>Date:</b>	05/22/10	<i>Roddy Le Pelouin</i>
<b>Project:</b>	None	<b>Temperature:</b>	22	
<b>Job Site:</b>	EV07	<b>Humidity:</b>	38	
<b>Serial Number:</b>	906003659	<b>Barometric Pres.:</b>	1009.5 mb	
<b>EUT:</b>	Bluetooth Module, FCC ID: EHABTS080			
<b>Configuration:</b>	2 - AC Powerline Conducted Emissions			
<b>Customer:</b>	Intermec Technologies Corporation			
<b>Attendees:</b>	None			
<b>EUT Power:</b>	120VAC/60Hz			
<b>Operating Mode:</b>	Transmitting Bluetooth DH5 (15, 339), high channel			
<b>Deviations:</b>	No deviations.			
<b>Comments:</b>	Module on extender cable from host hand held computer			

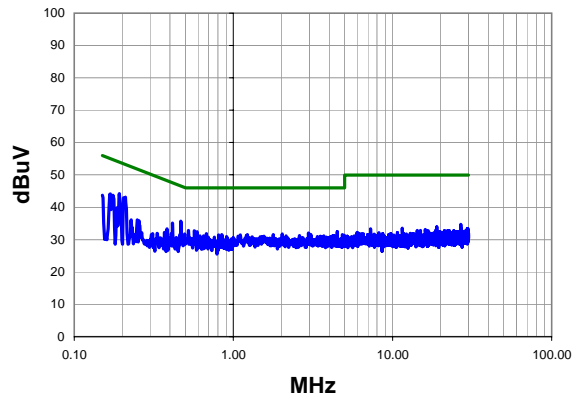
<b>Test Specifications</b> FCC 15.207:2010	<b>Test Method</b> ANSI C63.10:2009
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<b>Run #</b>	7	<b>Line:</b>	High Line	<b>Ext. Attenuation:</b>	20	<b>Results</b>	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.193	24.1	20.2	44.3	63.9	-19.7
0.210	23.0	20.2	43.2	63.2	-20.1
0.169	24.0	20.2	44.2	65.0	-20.9
0.468	15.5	20.2	35.7	56.6	-20.9
0.176	23.6	20.2	43.8	64.7	-20.9
0.150	23.6	20.2	43.8	66.0	-22.2
0.415	14.9	20.2	35.1	57.5	-22.5
0.522	12.7	20.2	32.9	56.0	-23.1
0.568	12.6	20.2	32.8	56.0	-23.2
0.592	12.3	20.2	32.5	56.0	-23.5
4.496	12.1	20.3	32.4	56.0	-23.6
2.960	11.7	20.3	32.0	56.0	-24.0
0.675	11.7	20.2	31.9	56.0	-24.1
2.024	11.5	20.3	31.8	56.0	-24.2
0.493	11.6	20.2	31.8	56.1	-24.3
0.186	19.7	20.2	39.9	64.2	-24.4
3.040	11.3	20.3	31.6	56.0	-24.4
0.847	11.4	20.2	31.6	56.0	-24.4
1.784	11.3	20.3	31.6	56.0	-24.4
4.848	11.2	20.4	31.6	56.0	-24.4

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.193	24.1	20.2	44.3	53.9	-9.7
0.210	23.0	20.2	43.2	53.2	-10.1
0.169	24.0	20.2	44.2	55.0	-10.9
0.468	15.5	20.2	35.7	46.6	-10.9
0.176	23.6	20.2	43.8	54.7	-10.9
0.150	23.6	20.2	43.8	56.0	-12.2
0.415	14.9	20.2	35.1	47.5	-12.5
0.522	12.7	20.2	32.9	46.0	-13.1
0.568	12.6	20.2	32.8	46.0	-13.2
0.592	12.3	20.2	32.5	46.0	-13.5
4.496	12.1	20.3	32.4	46.0	-13.6
2.960	11.7	20.3	32.0	46.0	-14.0
0.675	11.7	20.2	31.9	46.0	-14.1
2.024	11.5	20.3	31.8	46.0	-14.2
0.493	11.6	20.2	31.8	46.1	-14.3
0.186	19.7	20.2	39.9	54.2	-14.4
3.040	11.3	20.3	31.6	46.0	-14.4
0.847	11.4	20.2	31.6	46.0	-14.4
1.784	11.3	20.3	31.6	46.0	-14.4
4.848	11.2	20.4	31.6	46.0	-14.4

# EMC

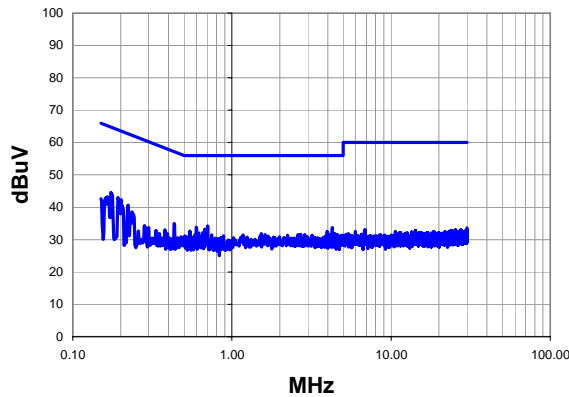
## AC POWERLINE CONDUCTED EMISSIONS

<b>Work Order:</b>	INMC0585	<b>Date:</b>	05/22/10	<i>Rod Pelouin</i> <b>Tested by:</b> Rod Pelouin
<b>Project:</b>	None	<b>Temperature:</b>	22	
<b>Job Site:</b>	EV07	<b>Humidity:</b>	38	
<b>Serial Number:</b>	906003659	<b>Barometric Pres.:</b>	1009.5 mb	
<b>EUT:</b>	Bluetooth Module, FCC ID: EHABTS080			
<b>Configuration:</b>	2 - AC Powerline Conducted Emissions			
<b>Customer:</b>	Intermec Technologies Corporation			
<b>Attendees:</b>	None			
<b>EUT Power:</b>	120VAC/60Hz			
<b>Operating Mode:</b>	Transmitting Bluetooth DH5 (15, 339), high channel			
<b>Deviations:</b>	No deviations.			
<b>Comments:</b>	Module on extender cable from host hand held computer			

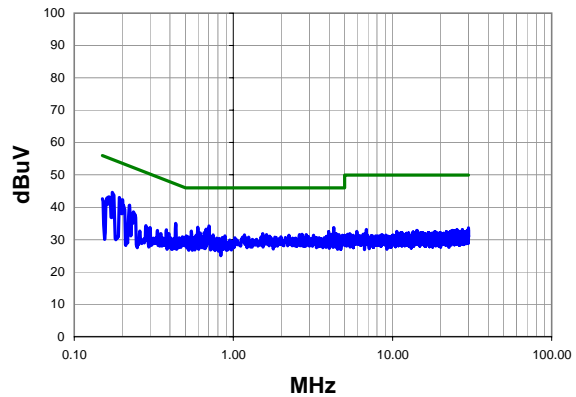
<b>Test Specifications</b> FCC 15.207:2010	<b>Test Method</b> ANSI C63.10:2009
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<b>Run #</b>	8	<b>Line:</b>	Neutral	<b>Ext. Attenuation:</b>	20	<b>Results</b>	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.174	24.4	20.2	44.6	64.8	-20.2
0.193	22.9	20.2	43.1	63.9	-20.9
0.201	22.2	20.2	42.4	63.6	-21.2
0.703	14.0	20.2	34.2	56.0	-21.8
0.165	23.1	20.2	43.3	65.2	-21.9
0.223	20.5	20.2	40.7	62.7	-22.0
0.434	14.8	20.2	35.0	57.2	-22.2
0.597	13.6	20.2	33.8	56.0	-22.2
4.264	13.4	20.3	33.7	56.0	-22.3
0.674	13.1	20.2	33.3	56.0	-22.7
0.544	12.5	20.2	32.7	56.0	-23.3
0.150	22.5	20.2	42.7	66.0	-23.3
0.697	12.3	20.2	32.5	56.0	-23.5
3.968	12.1	20.3	32.4	56.0	-23.6
0.235	18.4	20.2	38.6	62.3	-23.7
0.657	12.0	20.2	32.2	56.0	-23.8
0.619	11.9	20.2	32.1	56.0	-23.9
1.528	11.6	20.2	31.8	56.0	-24.2
4.432	11.4	20.3	31.7	56.0	-24.3
4.360	11.3	20.3	31.6	56.0	-24.4

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
0.174	24.4	20.2	44.6	54.8	-10.2
0.193	22.9	20.2	43.1	53.9	-10.9
0.201	22.2	20.2	42.4	53.6	-11.2
0.703	14.0	20.2	34.2	46.0	-11.8
0.165	23.1	20.2	43.3	55.2	-11.9
0.223	20.5	20.2	40.7	52.7	-12.0
0.434	14.8	20.2	35.0	47.2	-12.2
0.597	13.6	20.2	33.8	46.0	-12.2
4.264	13.4	20.3	33.7	46.0	-12.3
0.674	13.1	20.2	33.3	46.0	-12.7
0.544	12.5	20.2	32.7	46.0	-13.3
0.150	22.5	20.2	42.7	56.0	-13.3
0.697	12.3	20.2	32.5	46.0	-13.5
3.968	12.1	20.3	32.4	46.0	-13.6
0.235	18.4	20.2	38.6	52.3	-13.7
0.657	12.0	20.2	32.2	46.0	-13.8
0.619	11.9	20.2	32.1	46.0	-13.9
1.528	11.6	20.2	31.8	46.0	-14.2
4.432	11.4	20.3	31.7	46.0	-14.3
4.360	11.3	20.3	31.6	46.0	-14.4