

Intermec Technologies Corporation

Simultaneous Transmission - FCC Part 22H & Part 24E

Testing for Class II Permissive Change of FCC ID: EHAEM3420
to authorize co-location with FCC ID: EHA2610CF

700C configured with three internal radio modules:
CDMA (FCC ID: EHAEM3420)
802.11b/g (FCC ID: EHA2610CF)
Bluetooth (FCC ID: EHABTS080)

March 30, 2005

Report No. ITRM0073

Report Prepared By



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

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EMC Test Report



22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test

Issue Date: March 30, 2005

Intermec Technologies Corporation

700C configured with three internal radio modules:

CDMA (FCC ID: EHAEM3420)
802.11b/g (FCC ID: EHA2610CF)
Bluetooth (FCC ID: EHABTS080)

Specification	Emissions		
	Test Method	Pass	Fail
FCC 22.917(a) and FCC 24.238(a) Spurious Radiated Emissions:2004 (Simultaneous Transmit)	TA/EIA 603-B:2001	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Modifications made to the product

See the Modifications section of this report

Test Facility

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

Northwest EMC, Inc
22975 NW Evergreen Parkway, Suite 400
Hillsboro, OR 97124

Phone: (503) 844-4066 Fax: 844-3826

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

Approved By:

Don Facteau, IS Manager

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

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

Revision Number	Description	Date	Page Number
00	None		

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



NVLAP: Northwest EMC, Inc. is recognized under the United States Department of Commerce, National Institute of Standards and Technology, National Voluntary Laboratory Accreditation Program for satisfactory compliance with the requirements of ISO/IEC 17025 for Testing Laboratories. The NVLAP accreditation encompasses Electromagnetic Compatibility Testing in accordance with the European Union EMC Directive 89/336/EEC, ANSI C63.4, MIL-STD 461E, DO-160D and SAE J1113. Additionally, Northwest EMC is accredited by NVLAP to perform radio testing in accordance with the European Union R&TTE Directive 1999/5/EEC, the requirements of FCC, and the RSS radio standards for Industry Canada. Accreditation has been granted to Northwest EMC, Inc. under Certificate Numbers: 200629-0, 200630-0, and 200676-0.



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. USA0401C



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



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



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



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



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



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



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



SCOPE

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

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

What is measurement uncertainty?

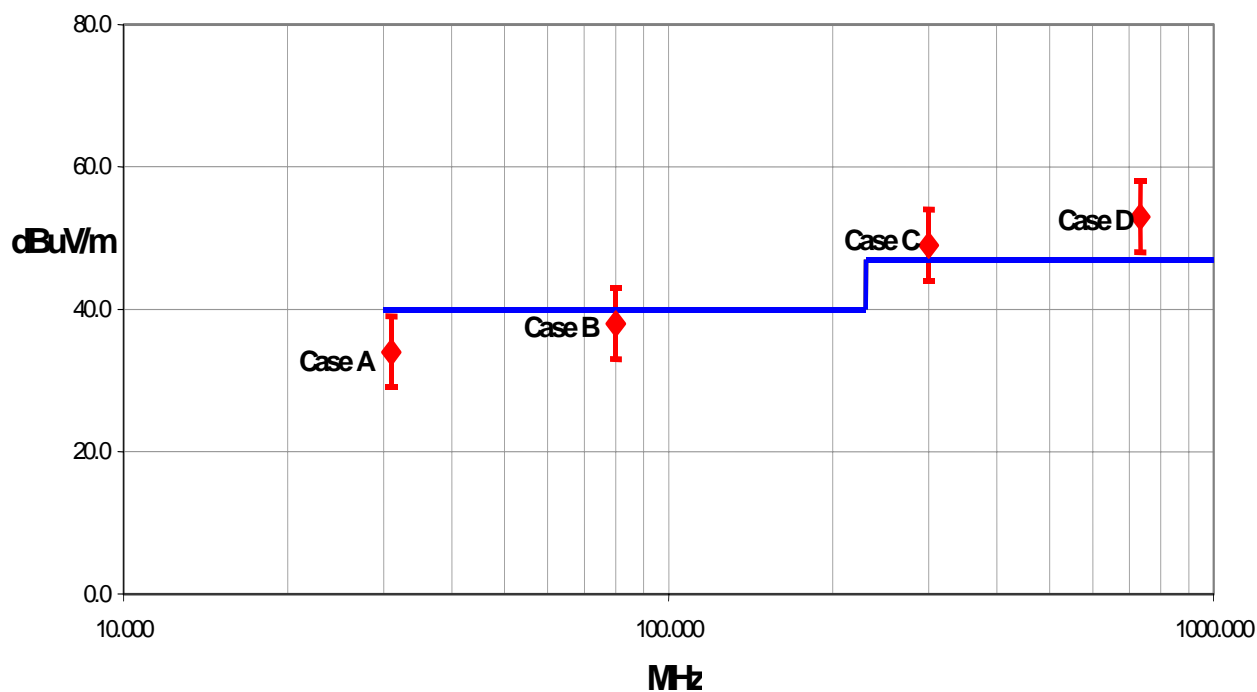
When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. The following statement of measurement uncertainty is used to reflect the accuracy of the measured result as compared with its “true” value. In the case of transient tests (ESD, EFT, Surge, Voltage Dips and Interruptions), the test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements.

The following documents were the basis for determining the uncertainty levels of our measurements:

- “ISO Guide to the Expression of Uncertainty in Measurements”, October 1993
- “NIS81: The Treatment of Uncertainty in EMC Measurements”, May 1994
- “IEC CISPR 16-3 A1 f1 Ed.1: Radio-interference measurements and statistical techniques”, December 2000

How might measurement uncertainty be applied to test results?

If the diamond marks the measured value for the test and the vertical bars bracket the range of + and – measurement uncertainty, then test results can be interpreted from the diagram below.



Test Result Scenarios:

Case A: Product complies.

Case B: Product conditionally complies. It is not possible to say with 95% confidence that the product complies.

Case C: Product conditionally does not comply. It is not possible to say with 95% confidence that the product does not comply.

Case D: Product does not comply.

Radiated Emissions ≤ 1 GHz

Value (dB)

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

Radiated Emissions > 1 GHz

Value (dB)

Test Distance	Probability Distribution	Without High Pass Filter		With High Pass Filter	
		3m	10m	3m	10m
Combined standard uncertainty $u_c(y)$	normal	+ 1.29 - 1.25	+ 1.38 - 1.35	+ 1.29 - 1.25	+ 1.38 - 1.35
Expanded uncertainty U (level of confidence $\approx 95\%$)	normal (k=2)	+ 2.57 - 2.51	+ 2.76 - 2.70	+ 2.57 - 2.51	+ 2.76 - 2.70

Conducted Emissions

Test Distance	Probability Distribution	Value (+/- dB)
Combined standard uncertainty $u_c(y)$	normal	1.48
Expanded uncertainty U (level of confidence $\approx 95\%$)	normal (k = 2)	2.97

Radiated Immunity

Test Distance	Probability Distribution	Value (+/- dB)
Combined standard uncertainty $u_c(y)$	normal	1.05
Expanded uncertainty U (level of confidence $\approx 95\%$)	normal (k = 2)	2.11

Conducted Immunity

Test Distance	Probability Distribution	Value (+/- dB)
Combined standard uncertainty $u_c(y)$	normal	1.05
Expanded uncertainty U (level of confidence $\approx 95\%$)	normal (k = 2)	2.10

Legend

$u_c(y)$ = square root of the sum of squares of the individual standard uncertainties

U = combined standard uncertainty multiplied by the coverage factor: k . This defines an interval about the measured result that will encompass the true value with a confidence level of approximately 95%. If a higher level of confidence is required, then $k=3$ (CL of 99.7%) can be used. Please note that with a coverage factor of one, $u_c(y)$ yields a confidence level of only 68%.

**California****Orange County Facility**

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

**Oregon****Evergreen Facility**

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

**Oregon****Trails End Facility**

30475 NE Trails End Lane
Newberg, OR 97132
(503) 844-4066
FAX (503) 537-0735

**Washington****Sultan Facility**

14128 339th Ave. SE
Sultan, WA 98294
(888) 364-2378
FAX (360) 793-2536

Party Requesting the Test

Company Name:	Intermec Technologies Corporation
Address:	550 Second St. SE
City, State, Zip:	Cedar Rapids, IA 52401-2023
Test Requested By:	Scott Holub
Model:	700C configured with three internal radio modules: CDMA (FCC ID: EHAEM3420) 802.11b/g (FCC ID: EHA2610CF) Bluetooth (FCC ID: EHABTS080)
First Date of Test:	2-2-2005
Last Date of Test:	2-2-2005
Receipt Date of Samples:	2-2-2005
Equipment Design Stage:	Production
Equipment Condition:	No visual damage.

Information Provided by the Party Requesting the Test

Clocks/Oscillators:	Not provided at the time of test.
I/O Ports:	Serial

Functional Description of the EUT (Equipment Under Test):

Intermec's Handheld Computer, Model 700C was configured with three co-located radios. The 700C contained a CDMA radio (FCC ID: EHAEM3420), an 802.11(b)/(g) radio (FCC ID: EHA2610CF), and a Bluetooth radio (FCC ID: EHABTS080).

Client Justification for EUT Selection:

Not Provided

Client Justification for Test Selection:

This test demonstrated compliance with FCC Part 22H and Part 24E emissions limits while the co-located radios were transmitting simultaneously. Each radio transmits through its own antenna. This report will be used as part of a Class II Permissive Change to authorize the co-location of the 802.11b/g radio with the CDMA radio.

EUT Photo

Equipment modifications					
Item	Test	Date	Modification	Note	Disposition of EUT
1	Spurious Radiated Emissions	2/2/2005	No EMI suppression devices were added or modified during this test.	Same configuration as received.	EUT remained at Northwest EMC.

Justification

Intermec's Handheld Computer, Model 700C was configured with three co-located radios. The 700C contained a CDMA radio (FCC ID: EHAEM3420), an 802.11(b)/(g) radio (FCC ID: EHA2610CF), and a Bluetooth radio (FCC ID: EHABTS080). This test demonstrated compliance with FCC Part 22H and Part 24E emissions limits while the co-located radios were transmitting simultaneously. Each radio transmits through its own antenna.

All possible combinations of harmonic emissions from the CDMA, 802.11(b)/(g), and Bluetooth radios were compared numerically. It was determined that there were no possible coincidental harmonics below 1 GHz. All the radios were configured for simultaneous transmission at the channels specified below.

Channels in Specified Band Investigated:

802.11(b):	1, 11
CDMA (Cellular):	54, 55, 395, 467
CDMA (PCS):	1, 35, 1153
Bluetooth:	5, 11, 62, 68, 79

Operating Modes Investigated:

Simultaneous transmission of Bluetooth Channel 11, 802.11Channel 1, & CDMA PCS Channel 1
Simultaneous transmission of Bluetooth Channel 11, 802.11Channel 1, & CDMA PCS Channel 1153
Simultaneous transmission of Bluetooth Channel 68, 802.11Channel 11, & CDMA PCS Channel 35
Simultaneous transmission of Bluetooth Channel 62, 802.11Channel 11, & CDMA PCS Channel 1153
Simultaneous transmission of Bluetooth Channel 11, 802.11Channel 1, & CDMA Cellular Channel 467
Simultaneous transmission of Bluetooth Channel 5, 802.11 Channel 1, & CDMA Cellular Channel 395
Simultaneous transmission of Bluetooth Channel 79, 802.11Channel 11, & CDMA Cellular Channel 55
Simultaneous transmission of Bluetooth Channel 79, 802.11Channel 11, & CDMA Cellular Channel 54

Data Rates Investigated:

Maximum

Antennas Investigated:

802.11(b):	Folded Monopole internal to 700C, P/N 805-608-104
CDMA:	Tri-band Antenna external to 700C, P/N 805-624-001
Bluetooth:	Chip antenna integral to Bluetooth module inside 700C

Output Power Setting(s) Investigated:

Maximum

Power Input Settings Investigated:

120 VAC, 60 Hz.

Frequency Range Investigated

Start Frequency	1 GHz	Stop Frequency	25 GHz
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Software\Firmware Applied During Test

Exercise software	FCC Tests Blue Test Test Utility	Version	Unknown Unknown 0.4
Description			
This system was tested using special test software to exercise the functions of the device during the testing such as channels, power, and modulation during simultaneous transmission.			

EUT and Peripherals

Description	Manufacturer	Model/Part Number	Serial Number
Handheld Computer	Intermec Technologies Corporation	700C	13790400011
AC Adapter	Elpac Power Systems	FW1812	011025

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC Leads	PA	1.3	PA	Handheld Computer	AC Adapter
AC Power	No	2.0	No	AC Adapter	AC Mains
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

Measurement Equipment

Description	Manufacturer	Model	Identifier	Last Cal	Interval
Antenna, Horn	EMCO	3160-09	AHG	NCR	NA
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	10/08/2003	24 mo
Antenna, Biconilog	EMCO	3141	AXE	12/03/2003	24 mo
Pre-Amplifier	Amplifier Research	LN1000A	APS	02/05/2004	13 mo
Antenna, Horn	EMCO	3115	AHC	09/07/2004	12 mo
Pre-Amplifier	Miteq	AMF-4D-005180-24-10P	APJ	01/05/2004	13 mo
High Pass Filter	Micro-Tronics	HPM50111	HFO	04/13/2004	13 mo
Attenuator		2082-6148-20	ATE	02/03/2004	13 mo
Quasi-Peak Adapter	Hewlett-Packard	85650A	AQF	12/02/2004	13 mo
Spectrum Analyzer	Hewlett-Packard	8566B	AAL	12/02/2004	13 mo
Spectrum Analyzer Display	Hewlett Packard	85662A	AALD	12/02/2004	13 mo
Spectrum Analyzer	Tektronix	2784	AAO	01/02/2005	12 mo
Antenna, Horn	EMCO	3160-08	AHK	NCR	NA
Pre-Amplifier	Miteq	AMF-4D-005180-24-10P	APC	10/08/2003	15 mo
Antenna, Horn	EMCO	3115	AHF	03/18/2004	24 mo
Signal Generator	Hewlett Packard	8341B	TGN	01/23/2004	13 mo
Antenna, Dipole (ADAA included)	Roberts	Roberts	ADA	1/06/2005	24 mo

Test Description

Requirement: Per 2.1053, the field strength of spurious radiation was measured in the far-field at an FCC Listed semi-anechoic chamber up to 25 GHz. The applicable limits are 22.917(a) for the cellular band, and 24.238(a) for the PCS band.

Per 22.917(a), The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB (-13 dBm).

Per 24.238(a), The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB (-13 dBm).

Configuration: Intermec's Handheld Computer, Model 700C was configured with three co-located radios. The 700C contained a CDMA radio (FCC ID: EHAEM3420), an 802.11(b)/(g) radio (FCC ID: EHA2610CF), and a Bluetooth radio (FCC ID: EHABTS080). This test demonstrated compliance with FCC Part 22H and Part 24E emissions limits while the co-located radios were transmitting simultaneously. Each radio transmits through its own antenna.

Simultaneous Transmission:

The following is an excerpt from the FCC / TCB Training Q & A, October 2002, Day 2, Question 7:

Assuming that the radios do not share an antenna, only radiated tests for simultaneous transmission is required. If the radios share an antenna, antenna conducted measurements would also be required. Only one set of worst case simultaneous transmission data is going to be requested to be submitted at this time. The test engineer should indicate the worst case condition and provide justification as to why the worst case condition was chosen. The grantee should be reminded that even if the FCC requests one set of data, they are responsible for compliance for all modes of simultaneous transmission.

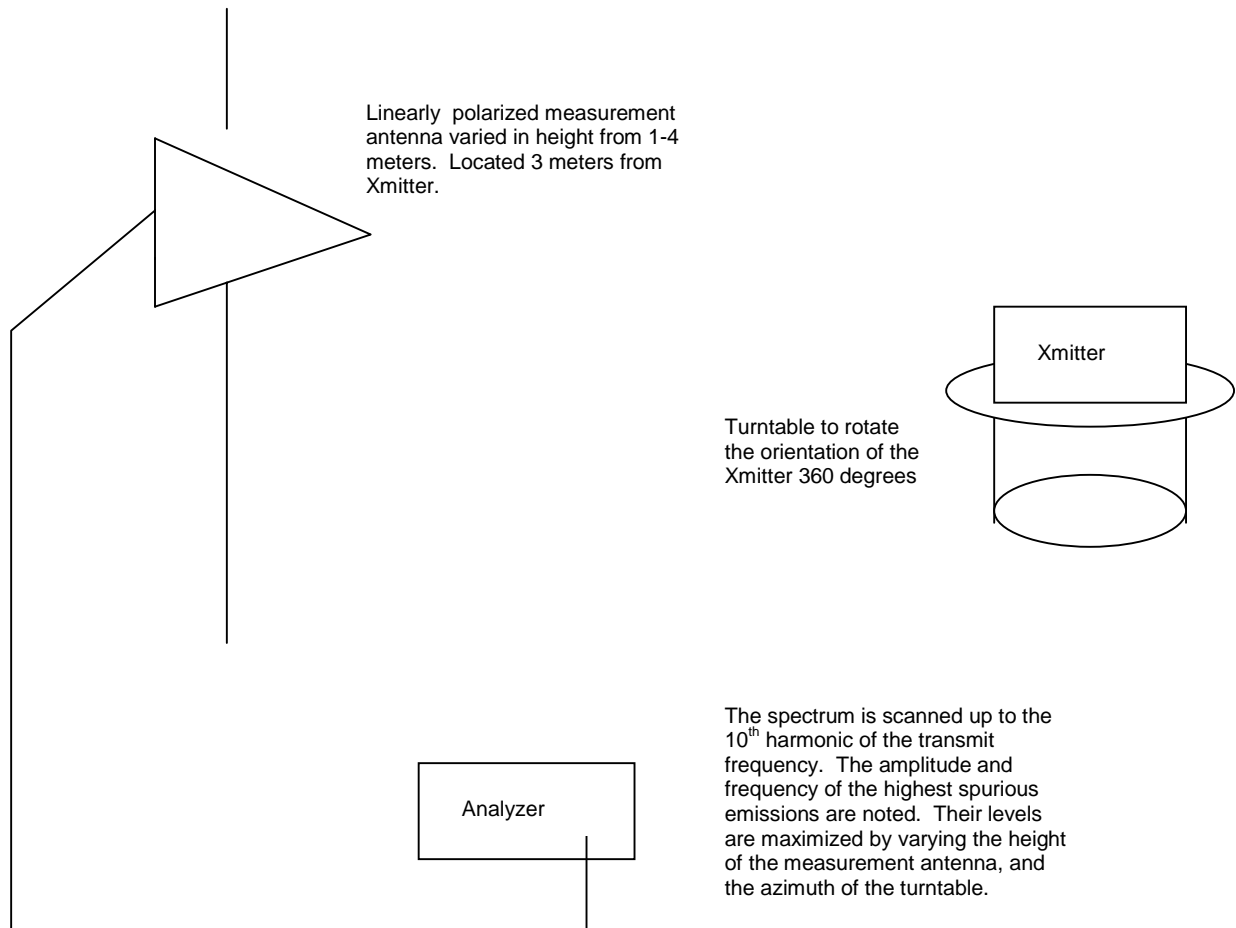
All possible combinations of harmonic emissions from the CDMA, 802.11(b), and Bluetooth radios were compared numerically. It was determined that there were no possible coincidental harmonics below 1 GHz. The frequency range from 1 GHz to 25 GHz was investigated for channel combinations that would produce coincidental harmonics.

Test Methodology: For licensed transmitters, the FCC references TIA/EIA 603-B as the measurement procedure standard. TIA/EIA 603-B Section 2.2.12 describes a method for measuring radiated emissions that utilizes an antenna substitution method:

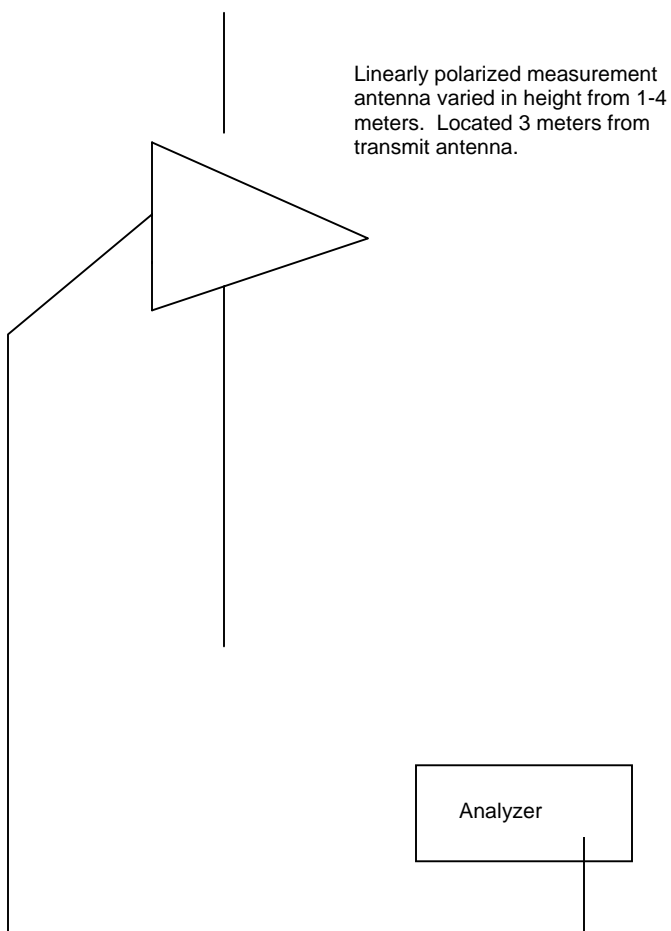
At an approved test site, the transmitter is placed on a remotely controlled turntable, and the measurement antenna is placed 3 meters from the transmitter. The turntable azimuth is varied to maximize the level of emissions. The height of the measurement antenna is also varied from 1 to 4 meters. The amplitude and frequency of the highest emissions are noted. The transmitter is then replaced with a $\frac{1}{2}$ wave dipole that is successively tuned to each of the highest emissions. A signal generator is connected to the dipole (horn antenna for frequencies above 1 GHz), and its output is adjusted to match the level previously noted for each frequency. The output of the signal generator is recorded, and by factoring in the cable loss to the dipole antenna and its gain; the power (ERP or e.i.r.p) is determined for each radiated emission.

Test Setup Diagram

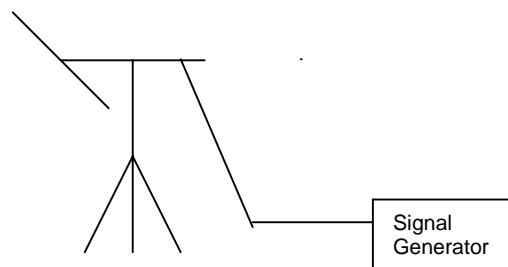
Test Setup for Field Strength Measurements



Test Setup for Power Measurements Utilizing the Antenna Substitution Method




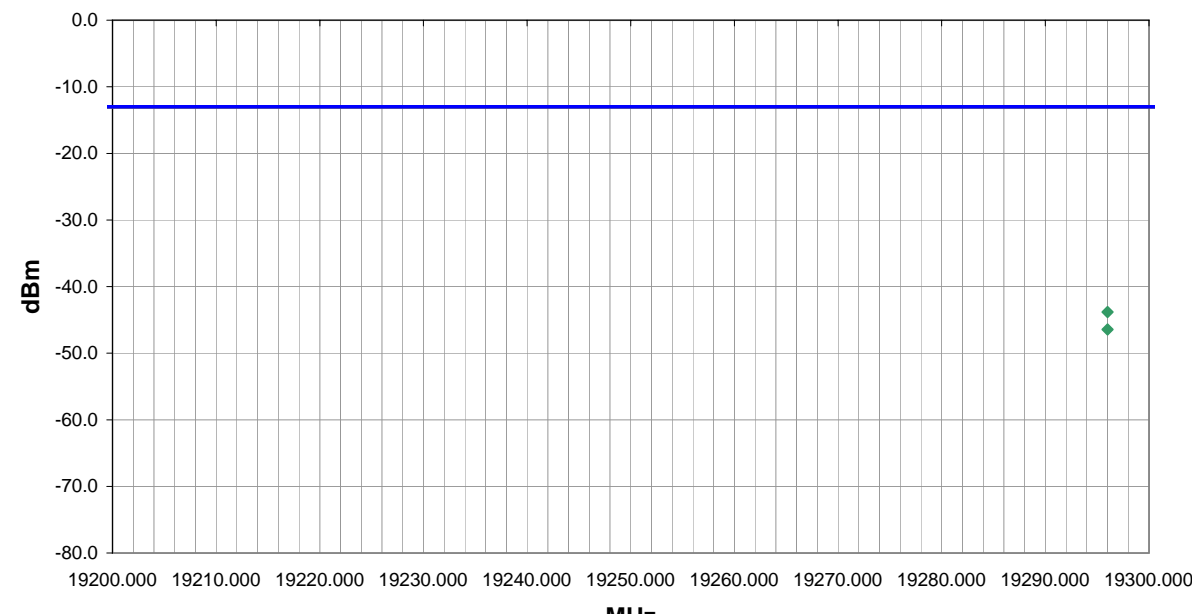
During field strength measurements, the amplitude and frequency of the highest emissions are noted. The transmitter is then replaced with a $\frac{1}{2}$ wave dipole (at the same height) that is successively tuned to each of the highest spurious emissions. A signal generator is connected to the dipole (horn antenna for frequencies above 1 GHz), and its output is adjusted to match the level previously noted for each frequency.




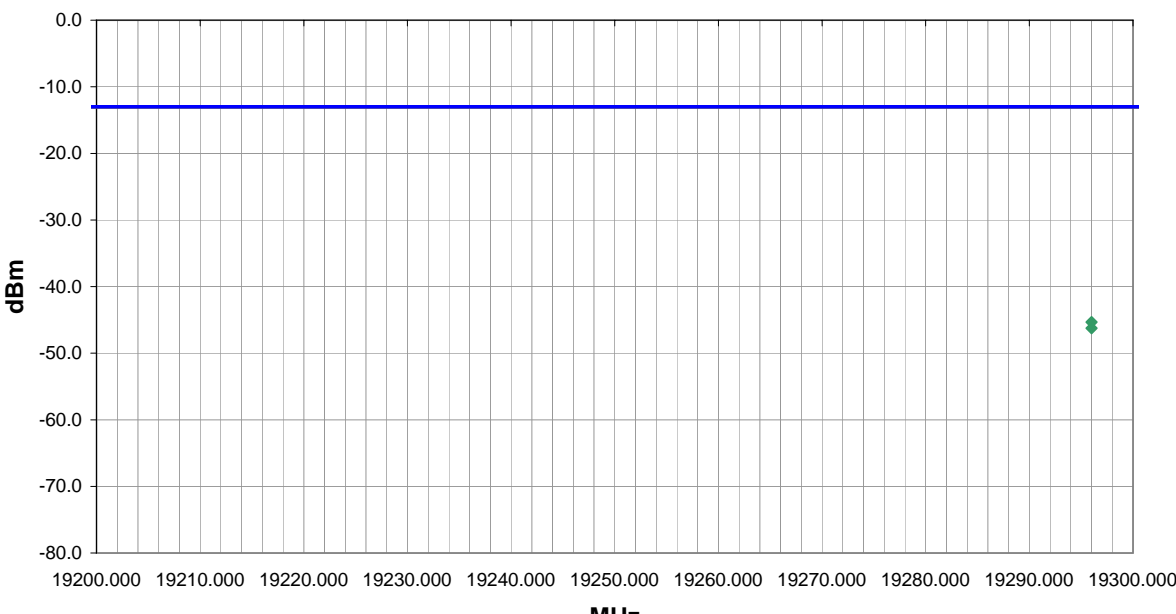
The spectrum analyzer is monitored to verify that the output of the signal generator produces a signal equal in amplitude to a previously measured spurious emission.


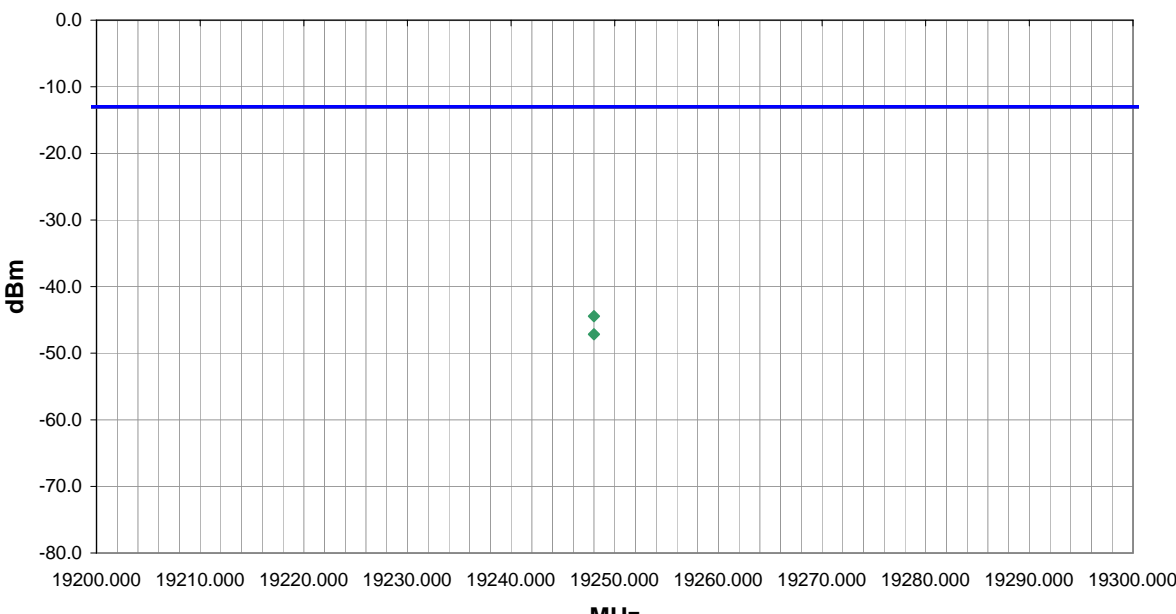
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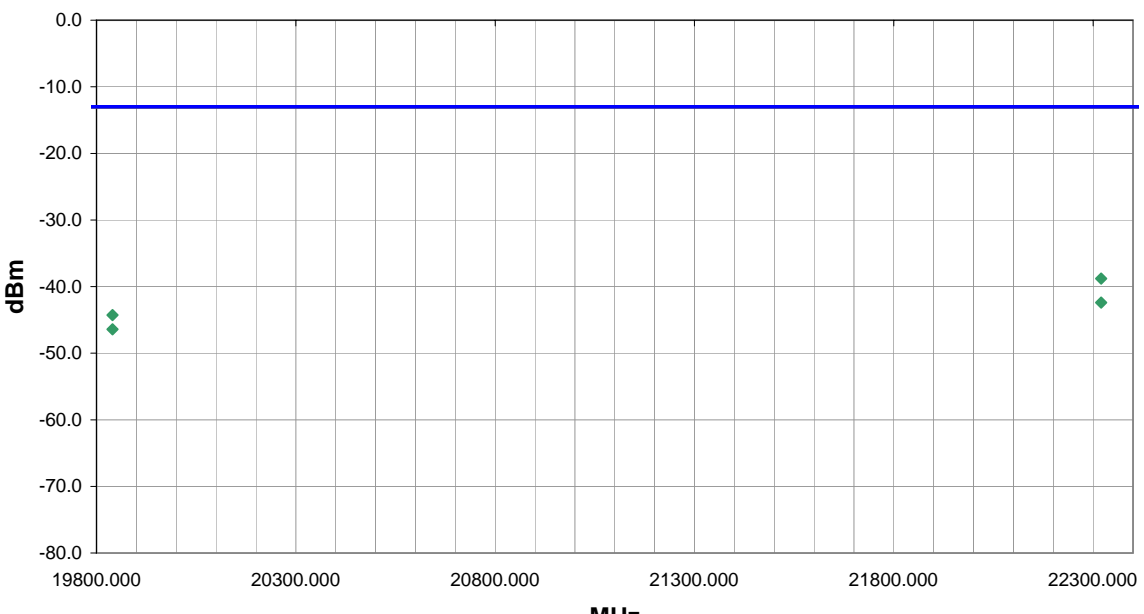
Holly Antling


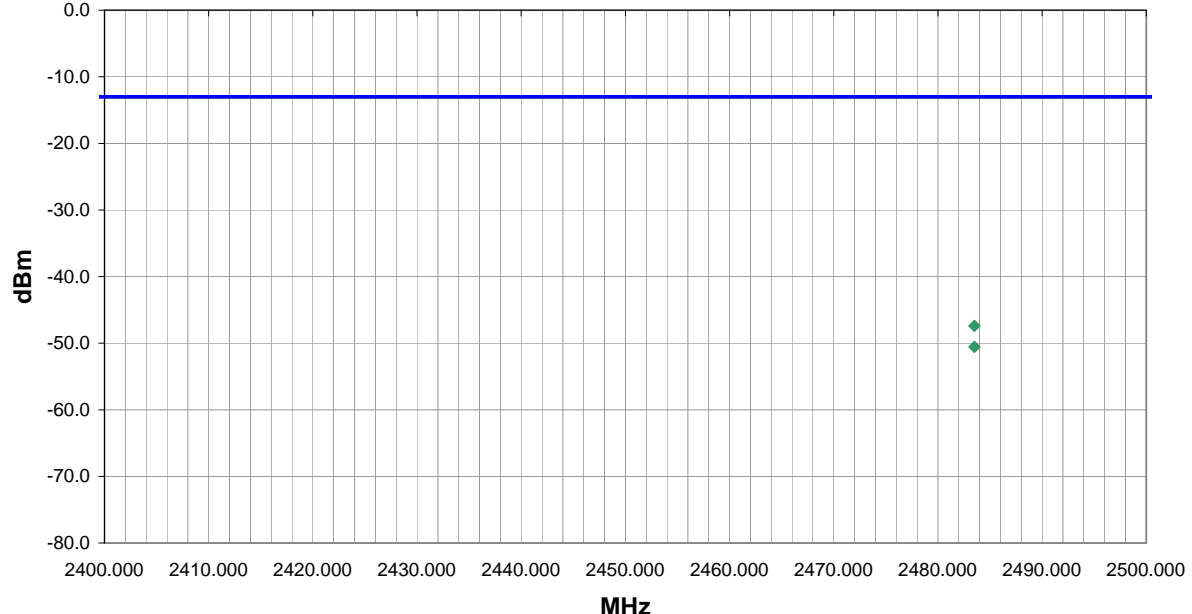
NORTHWEST EMC										ACQ 2005.1.3 EMI A2.13		
Apparent Power Data Sheet												
EUT: 2601CF					Work Order: ITRM0054							
Serial Number: Unknown					Date: 02/02/05							
Customer: Intermec Technologies Corporation					Temperature: 70							
Attendees: None					Humidity: 38%							
Cust. Ref. No.: N/A					Barometric Pressure: 30.15							
Tested by: Holly Ashkannejhad				Power: 120VAC/60Hz		Job Site: EV01						
TEST SPECIFICATIONS												
Specification: FCC 24.238(a):2004					Method: TIA/EIA 603-B:2001							
SAMPLE CALCULATIONS												
Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation												
Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator												
COMMENTS												
700C Standalone												
EUT OPERATING MODES												
Bluetooth 11, 802.11b 11, CDMA 1153 (PCS) on 700C												
DEVIATIONS FROM TEST STANDARD												
No deviations.												
RESULTS										Run #		
Pass										30		
Other												
										 Tested By:		
												
Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
19296.000			360.0	1.0			V-High Horr	PK	0.0000	-43.8	-13.0	-30.8
19296.000			-1.0	1.0			H-High Horr	PK	0.0000	-46.4	-13.0	-33.4


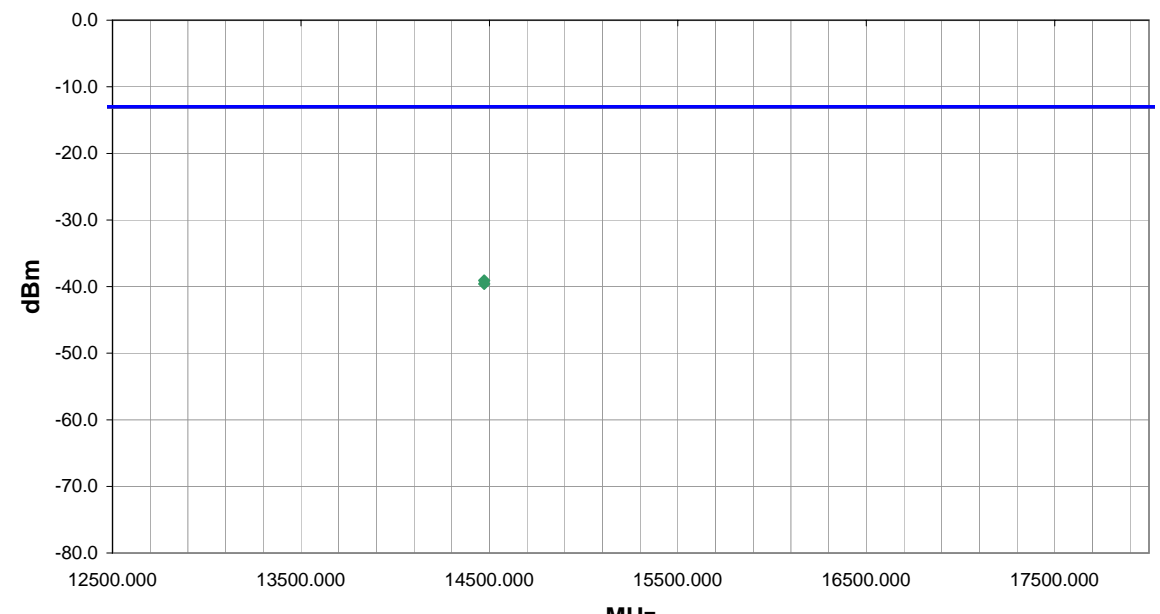
NORTHWEST		<h1 style="margin: 0;">Apparent Power Data Sheet</h1>				ACQ 2005.1.3 EMI A2.13																																					
EMC																																											
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Bluetooth 68, 802.11b 11, CDMA 35 (PCS) on 700C																																											
DEVIATIONS FROM TEST STANDARD																																											
No deviations.																																											
RESULTS						Run #																																					
Pass						31																																					
Other						 Tested By:																																					
<table border="1" style="width:100%; border-collapse: collapse; font-size: small;"> <thead> <tr> <th>Freq (MHz)</th> <th></th> <th></th> <th>Azimuth (degrees)</th> <th>Height (meters)</th> <th></th> <th>Polarity</th> <th>Detector</th> <th>EIRP (Watts)</th> <th>EIRP (dBm)</th> <th>Spec. Limit (dBm)</th> <th>Compared to Spec. (dB)</th> </tr> </thead> <tbody> <tr> <td>22221.000</td> <td></td> <td></td> <td>360.0</td> <td>1.0</td> <td></td> <td>V-High Horr</td> <td>PK</td> <td>0.0000</td> <td>-39.7</td> <td>-13.0</td> <td>-26.7</td> </tr> <tr> <td>22221.000</td> <td></td> <td></td> <td>-1.0</td> <td>1.0</td> <td></td> <td>V-High Horr</td> <td>PK</td> <td>0.0000</td> <td>-39.7</td> <td>-13.0</td> <td>-26.7</td> </tr> </tbody> </table>								Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	22221.000			360.0	1.0		V-High Horr	PK	0.0000	-39.7	-13.0	-26.7	22221.000			-1.0	1.0		V-High Horr	PK	0.0000	-39.7	-13.0	-26.7
Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)																																
22221.000			360.0	1.0		V-High Horr	PK	0.0000	-39.7	-13.0	-26.7																																
22221.000			-1.0	1.0		V-High Horr	PK	0.0000	-39.7	-13.0	-26.7																																


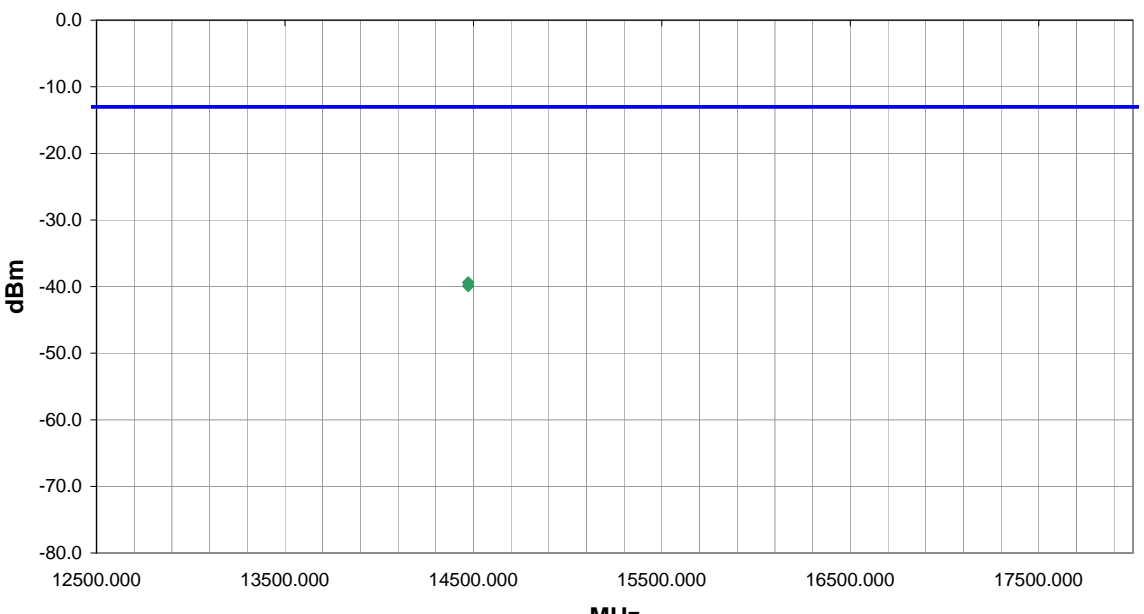
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Apparent Power Data Sheet																																																		
EUT: 2601CF					Work Order: ITRM0054																																													
Serial Number: Unknown					Date: 02/02/05																																													
Customer: Intermec Technologies Corporation					Temperature: 70																																													
Attendees: None					Humidity: 38%																																													
Cust. Ref. No.: N/A					Barometric Pressure: 30.15																																													
Tested by: Holly Ashkannejhad				Power: 120VAC/60Hz		Job Site: EV01																																												
TEST SPECIFICATIONS																																																		
Specification: FCC 22.917(a):2004					Method: TIA/EIA 603-B:2001																																													
SAMPLE CALCULATIONS																																																		
Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation																																																		
Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator																																																		
COMMENTS																																																		
EUT OPERATING MODES																																																		
Bluetooth 11, 802.11b 1, CDMA 467 (cellular) on 700C																																																		
DEVIATIONS FROM TEST STANDARD																																																		
No deviations.																																																		
RESULTS										Run #																																								
Pass										32																																								
Other																																																		
										 Tested By:																																								
																																																		
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Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)																																						
19296.000			360.0	1.0			H-High Horr	PK	0.0000	-45.3	-13.0	-32.3																																						
19296.000			-1.0	1.0			H-High Horr	PK	0.0000	-46.2	-13.0	-33.2																																						


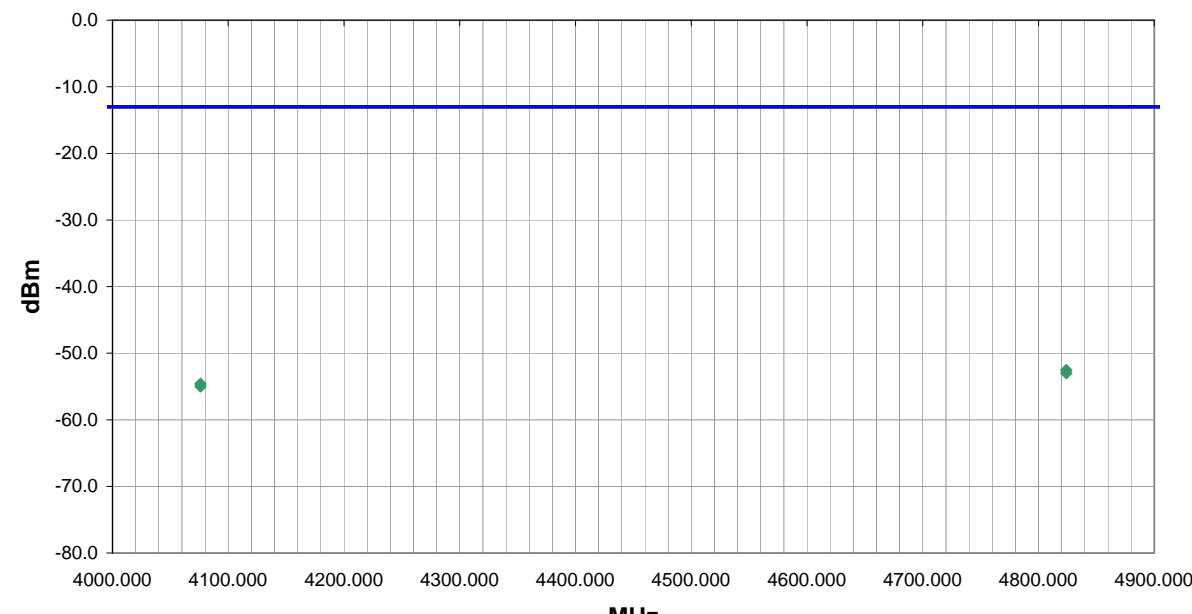
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Apparent Power Data Sheet																																																		
EUT: 2601CF					Work Order: ITRM0054																																													
Serial Number: Unknown					Date: 02/02/05																																													
Customer: Intermec Technologies Corporation					Temperature: 70																																													
Attendees: None					Humidity: 38%																																													
Cust. Ref. No.: N/A					Barometric Pressure: 30.15																																													
Tested by: Holly Ashkannejhad				Power: 120VAC/60Hz		Job Site: EV01																																												
TEST SPECIFICATIONS																																																		
Specification: FCC 22.917(a):2004					Method: TIA/EIA 603-B:2001																																													
SAMPLE CALCULATIONS																																																		
Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation																																																		
Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator																																																		
COMMENTS																																																		
700C standalone.																																																		
EUT OPERATING MODES																																																		
Bluetooth 5, 802.11b 1, CDMA 395 (cellular) on 700C																																																		
DEVIATIONS FROM TEST STANDARD																																																		
No deviations.																																																		
RESULTS										Run #																																								
Pass										33																																								
Other																																																		
										 Tested By:																																								
																																																		
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Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)																																						
19248.000			360.0	1.0			V-High Horr	PK	0.0000	-44.4	-13.0	-31.4																																						
19248.000			-1.0	1.0			H-High Horr	PK	0.0000	-47.1	-13.0	-34.1																																						


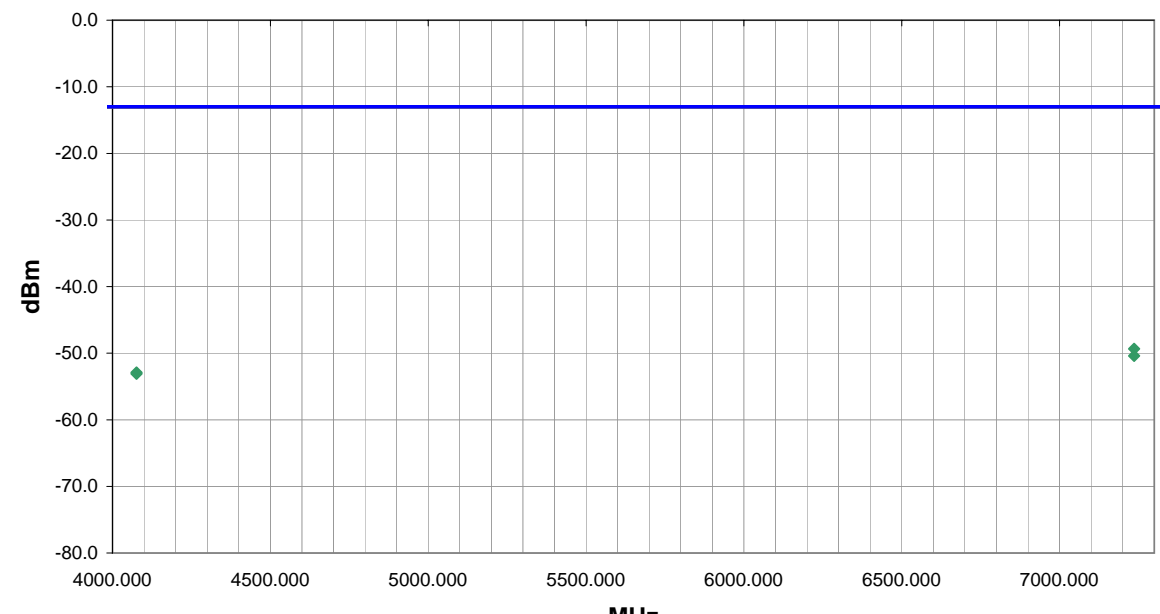
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Apparent Power Data Sheet												
EUT: 2601CF					Work Order: ITRM0054							
Serial Number: Unknown					Date: 02/02/05							
Customer: Intermec Technologies Corporation					Temperature: 70							
Attendees: None					Humidity: 38%							
Cust. Ref. No.: N/A					Barometric Pressure: 30.15							
Tested by: Holly Ashkannejhad			Power: 120VAC/60Hz		Job Site: EV01							
TEST SPECIFICATIONS												
Specification: FCC 22.917(a):2004					Method: TIA/EIA 603-B:2001							
SAMPLE CALCULATIONS												
Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation												
Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator												
COMMENTS												
700C Standalone												
EUT OPERATING MODES												
Bluetooth 79, 802.11b 11, CDMA 55 (cellular) on 700C												
DEVIATIONS FROM TEST STANDARD												
No deviations.												
RESULTS										Run #		
Pass										34		
Other												
										 Tested By:		
												
Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
22320.000			360.0	1.0			V-High Horr	PK	0.0000	-38.8	-13.0	-25.8
22320.000			-1.0	1.0			H-High Horr	PK	0.0000	-42.4	-13.0	-29.4
19840.000			-1.0	1.0			V-High Horr	PK	0.0000	-44.3	-13.0	-31.3
19840.000			360.0	1.0			H-High Horr	PK	0.0000	-46.4	-13.0	-33.4

NORTHWEST EMC										ACQ 2005.1.3 EMI A2.13		
Apparent Power Data Sheet												
EUT: 2601CF					Work Order: ITRM0054							
Serial Number: Unknown					Date: 02/02/05							
Customer: Intermec Technologies Corporation					Temperature: 21							
Attendees: None					Humidity: 38%							
Cust. Ref. No.:					Barometric Pressure: 30.47							
Tested by: Holly Ashkannejhad					Power: 120VAC/60Hz					Job Site: EV01		
TEST SPECIFICATIONS												
Specification: FCC 24.238(a):2004					Method: TIA/EIA 603-B:2001							
SAMPLE CALCULATIONS												
Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation												
Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator												
COMMENTS												
EUT OPERATING MODES												
Bluetooth 62, 802.11b 11, CDMA 1153 (PCS) on 700C												
DEVIATIONS FROM TEST STANDARD												
No deviations.												
RESULTS										Run #		
Pass										35		
Other												
										 Tested By:		
												
Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
2483.500			165.0	1.2			V-Horn	PK	0.0000	-47.4	-13.0	-34.4
2483.500			327.0	1.2			H-Horn	PK	0.0000	-50.5	-13.0	-37.5

NORTHWEST EMC		Apparent Power Data Sheet				ACQ 2005.1.3 EMI 2005.1.3					
EUT: 2601CF		Work Order: ITRM0054									
Serial Number: Unknown		Date: 02/02/05									
Customer: Intermec Technologies Corporation		Temperature: 20									
Attendees: None		Humidity: 35%									
Cust. Ref. No.:		Barometric Pressure: 30.38									
Tested by: Holly Ashkannejhad		Power: 120VAC/60Hz		Job Site: EV01							
TEST SPECIFICATIONS											
Specification: FCC 24.238(a):2004		Method: TIA/EIA 603-B:2001									
SAMPLE CALCULATIONS											
Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation											
Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator											
COMMENTS											
700C Standalone											
EUT OPERATING MODES											
Bluetooth 11, 802.11b 1, CDMA 1 (PCS) on 700C											
DEVIATIONS FROM TEST STANDARD											
No deviations.											
RESULTS						Run #					
Pass						36					
Other											
						 Tested By:					
											
Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
14472.000			193.0	1.4		H-Horn	PK	0.0000	-39.1	-13.0	-26.1
14472.000			26.0	2.9		V-Horn	PK	0.0000	-39.6	-13.0	-26.6

NORTHWEST EMC										Apparent Power Data Sheet				ACQ 2005.1.3 EMI 2005.1.3																																						
EUT: 2601CF										Work Order: ITRM0054																																										
Serial Number: Unknown										Date: 02/02/05																																										
Customer: Intermec Technologies Corporation										Temperature: 21																																										
Attendees: None										Humidity: 38%																																										
Cust. Ref. No.:										Barometric Pressure: 30.47																																										
Tested by: Holly Ashkannejhad					Power: 120VAC/60Hz					Job Site: EV01																																										
TEST SPECIFICATIONS																																																				
Specification: FCC 22.917(a):2004										Method: TIA/EIA 603-B:2001																																										
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700C Standalone																																																				
EUT OPERATING MODES																																																				
Bluetooth 11, 802.11b 1, CDMA 467 (cellular) on 700C																																																				
DEVIATIONS FROM TEST STANDARD																																																				
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RESULTS																																																				
Pass												Run #																																								
												37																																								
Other																																																				
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Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)																																								
14472.000			253.0	1.9			H-Horn	PK	0.0000	-39.4	-13.0	-26.4																																								
14472.000			278.0	1.2			V-Horn	PK	0.0000	-39.9	-13.0	-26.9																																								

NORTHWEST EMC		Apparent Power Data Sheet		ACQ 2005.1.3 EMI 2005.1.3							
EUT: 2601CF			Work Order: ITRM0054								
Serial Number: Unknown			Date: 02/02/05								
Customer: Intermec Technologies Corporation			Temperature: 22								
Attendees: None			Humidity: 37%								
Cust. Ref. No.:			Barometric Pressure: 30.47								
Tested by: Holly Ashkannejhad		Power: 120VAC/60Hz		Job Site: EV01							
TEST SPECIFICATIONS											
Specification: FCC 22.917(a):2004			Method: TIA/EIA 603-B:2001								
SAMPLE CALCULATIONS											
Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation											
Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator											
COMMENTS											
700C Standalone											
EUT OPERATING MODES											
Bluetooth 11, 802.11b 1, CDMA 467 (Cellular) on 700C											
DEVIATIONS FROM TEST STANDARD											
No deviations.											
RESULTS					Run #						
Pass					38						
Other											
					 Tested By:						
											
Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
4823.973			209.0	1.2		V-Horn	PK	0.0000	-52.5	-13.0	-39.5
4823.973			144.0	1.2		H-Horn	PK	0.0000	-53.0	-13.0	-40.0
4075.981			125.0	1.2		V-Horn	PK	0.0000	-54.6	-13.0	-41.6
4075.981			350.0	1.3		H-Horn	PK	0.0000	-55.0	-13.0	-42.0

NORTHWEST EMC										ACQ 2005.1.3 EMI 2005.1.3		
Apparent Power Data Sheet												
EUT: 2601CF					Work Order: ITRM0054							
Serial Number: Unknown					Date: 02/02/05							
Customer: Intermec Technologies Corporation					Temperature: 21							
Attendees: None					Humidity: 38%							
Cust. Ref. No.:					Barometric Pressure: 30.47							
Tested by: Holly Ashkannejhad				Power: 120VAC/60Hz		Job Site: EV01						
TEST SPECIFICATIONS												
Specification: FCC 24.238(a):2004					Method: TIA/EIA 603-B:2001							
SAMPLE CALCULATIONS												
Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation												
Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator												
COMMENTS												
700C STandalone												
EUT OPERATING MODES												
Bluetooth 11, 802.11b 1, CDMA 1 (PCS) on 700C												
DEVIATIONS FROM TEST STANDARD												
No deviations.												
RESULTS										Run #		
Pass										40		
Other												
										 Tested By:		
												
Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
7236.000			32.0	1.3			H-Horn	PK	0.0000	-49.3	-13.0	-36.3
7236.000			253.0	1.5			V-Horn	PK	0.0000	-50.4	-13.0	-37.4
4075.990			263.0	1.5			V-Horn	PK	0.0000	-52.9	-13.0	-39.9
4075.990			250.0	1.5			H-Horn	PK	0.0000	-53.1	-13.0	-40.1

Apparent Power Data Sheet

EUT:	2601CF	Work Order:	ITRM0054
Serial Number:	Unknown	Date:	02/02/05
Customer:	Intermec Technologies Corporation	Temperature:	21
Attendees:	None	Humidity:	38%
Cust. Ref. No.:		Barometric Pressure:	30.47
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz
		Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 24.238(a):2004	Method:	TIA/EIA 603-B:2001
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SAMPLE CALCULATIONS

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

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

COMMENTS

700C standalone.

EUT OPERATING MODES

Bluetooth 11, 802.11b 1, CDMA 1153 (PCS) on 700C

DEVIATIONS FROM TEST STANDARD

No deviations.

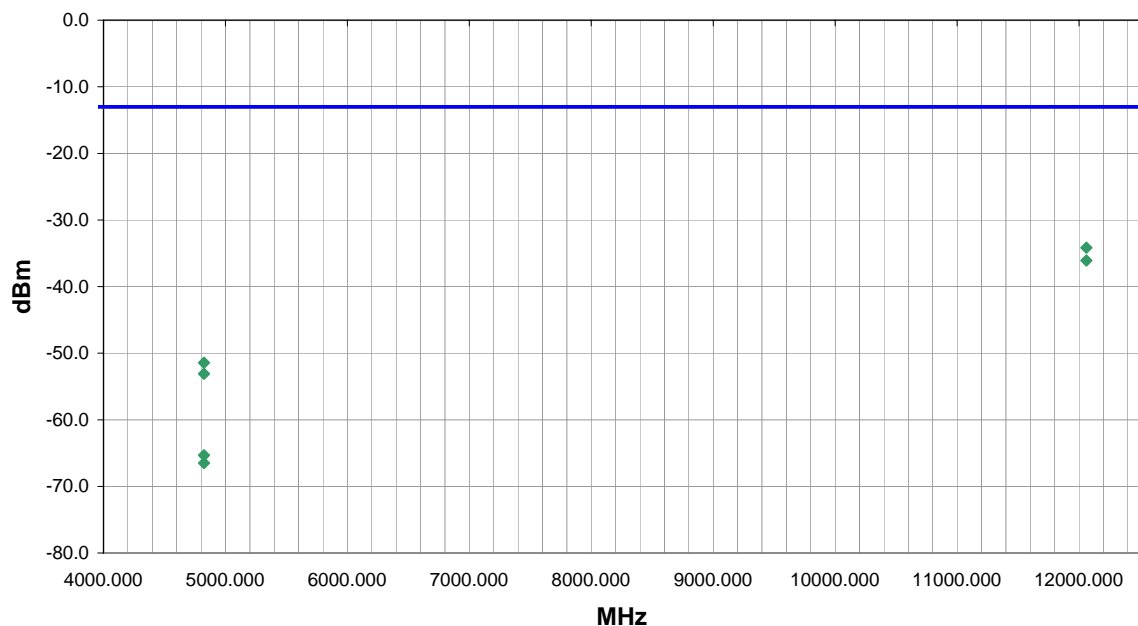
RESULTS

Pass	Run #
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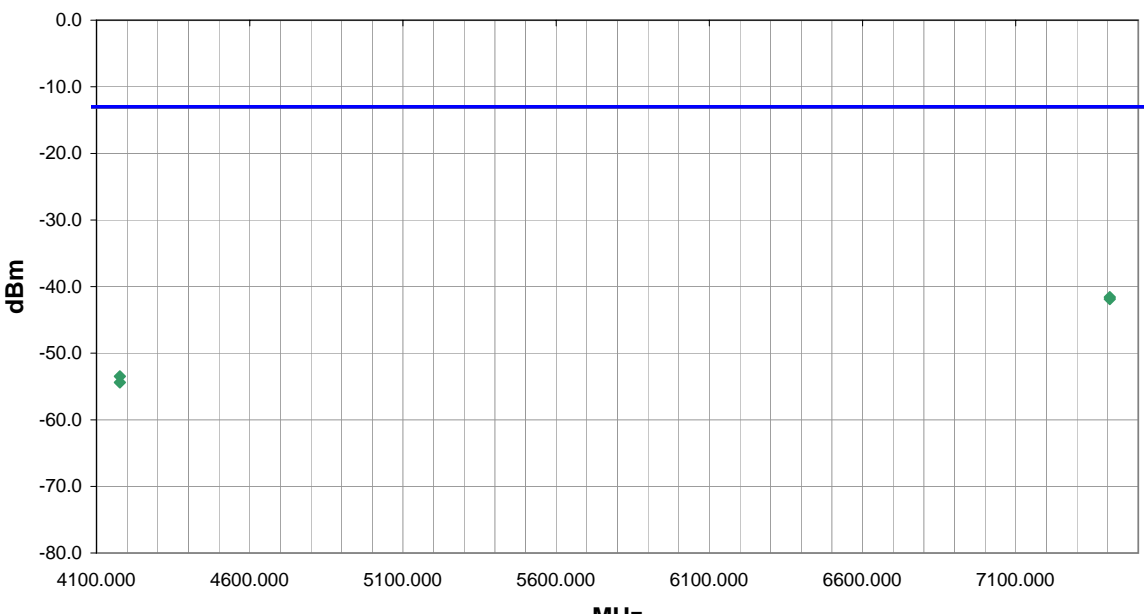
Other

Holly Ashkannejhad

Tested By:



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)
12060.000			232.0	1.3			H-Horn	PK	0.0000	-34.2	-13.0	-21.2
12060.000			145.0	1.2			V-Horn	PK	0.0000	-36.1	-13.0	-23.1
4823.940			204.0	1.2			V-Horn	PK	0.0000	-51.4	-13.0	-38.4
4823.940			257.0	1.3			H-Horn	PK	0.0000	-53.1	-13.0	-40.1
4823.940			204.0	1.2			V-Horn	AV	0.0000	-65.3	-13.0	-52.3
4823.940			257.0	1.3			H-Horn	AV	0.0000	-66.5	-13.0	-53.5

NORTHWEST EMC										ACQ 2005.1.3 EMI 2005.1.3			
Apparent Power Data Sheet													
EUT: 2601CF					Work Order: ITRM0054								
Serial Number: Unknown					Date: 02/02/05								
Customer: Intermec Technologies Corporation					Temperature: 21								
Attendees: None					Humidity: 38%								
Cust. Ref. No.:					Barometric Pressure: 30.47								
Tested by: Holly Ashkannejhad					Power: 120VAC/60Hz					Job Site: EV01			
TEST SPECIFICATIONS													
Specification: FCC 24.238(a):2004					Method: TIA/EIA 603-B:2001								
SAMPLE CALCULATIONS													
Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation													
Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator													
COMMENTS													
700C Standalone													
EUT OPERATING MODES													
Bluetooth 68, 802.11b 11, CDMA 35 (PCS) on 700C													
DEVIATIONS FROM TEST STANDARD													
No deviations.													
RESULTS										Run #			
Pass										42			
Other													
										 Tested By:			
													
Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	
7407.000			212.0	1.6			H-Horn	PK	0.0000	-41.6	-13.0	-28.6	
7407.000			121.0	1.1			V-Horn	PK	0.0000	-41.9	-13.0	-28.9	
4175.987			259.0	1.5			H-Horn	PK	0.0000	-53.5	-13.0	-40.5	
4175.987			300.0	1.1			H-Horn	PK	0.0000	-54.4	-13.0	-41.4	

NORTHWEST		Apparent Power Data Sheet				ACQ 2005.1.3 EMI 2005.1.3						
EMC												
EUT: 2601CF		Work Order: ITRM0054										
Serial Number: Unknown		Date: 02/02/05										
Customer: Intermec Technologies Corporation		Temperature: 21										
Attendees: None		Humidity: 38%										
Cust. Ref. No.:		Barometric Pressure: 30.47										
Tested by: Holly Ashkannejhad		Power: 120VAC/60Hz		Job Site: EV01								
TEST SPECIFICATIONS												
Specification: FCC 22.917(a):2004		Method: TIA/EIA 603-B:2001										
SAMPLE CALCULATIONS												
Radiated Emissions: Field Strength = Measured Level + Antenna Factor + Cable Factor - Amplifier Gain + Distance Adjustment Factor + External Attenuation Conducted Emissions: Adjusted Level = Measured Level + Transducer Factor + Cable Attenuation Factor + External Attenuator												
COMMENTS												
700C Standalone												
EUT OPERATING MODES												
Bluetooth 68, 802.11b 11, CDMA 54 (cellular) on 700C												
DEVIATIONS FROM TEST STANDARD												
No deviations.												
RESULTS						Run #						
Pass						43						
Other												
				Tested By:								
Freq (MHz)			Azimuth (degrees)	Height (meters)		Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
2483.500			48.0	1.0		H-Horn	PK	0.0000	-16.0	-13.0	-3.0	EUT Vertical
2483.500			272.0	1.1		V-Horn	AV	0.0000	-37.9	-13.0	-24.9	EUT Horizontal
2483.500			48.0	1.0		H-Horn	AV	0.0000	-38.1	-13.0	-25.1	EUT Vertical

