# Intermec Technologies Corporation

802.11(a)/(b)/(g) radio

October 14, 2004

Report No. ITRM0041

Report Prepared By



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

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22975 NW Evergreen Parkway Suite 400 Hillsboro, Oregon 97124

# **Certificate of Test**

Issue Date: October 14, 2004 Intermec Technologies Corporation Model: 802.11(a)/(b)/(g) radio

Emissions			
Specification	Test Method	Pass	Fail
FCC 15.407(b)(5) AC Powerline Conducted Emissions:2003	ANSI C63.4:2001	$\boxtimes$	
FCC 15.407(a) Emission Bandwidth:2003	ANSI C63.4:2001		
FCC 15.407(a)(1)-(4) Peak Transmit Power:2003	ANSI C63.4:2001	$\boxtimes$	
FCC 15.407(a)(1)-(5) Peak Power Spectral Density:2003	ANSI C63.4:2001	$\boxtimes$	
FCC 15.407(a)(6) Peak Excursion of Mod. Envelope:2003	ANSI C63.4:2001		
FCC 15.407(b)(1)-(7) Spurious Radiated Emissions:2003	ANSI C63.4:2001	$\boxtimes$	
FCC 15.407(g) Frequency Stability:2003	ANSI C63.4:2001		

# **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:	
Loud Markon	
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 History**

Revision 05/05/03

Revision Number	Description	Date	Page Number
00	None		

EMC

**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 TUV Product Service Group's Listing of Recognized Laboratories. It qualifies in connection with the TUV Certification after Recognition of Agent's Testing Program for the product categories and/or standards shown in TUV's current Listing of CARAT Laboratories available from TUV. A certificate was issued to represent that this laboratory continues to meet TUV'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

#### What is measurement uncertainty?

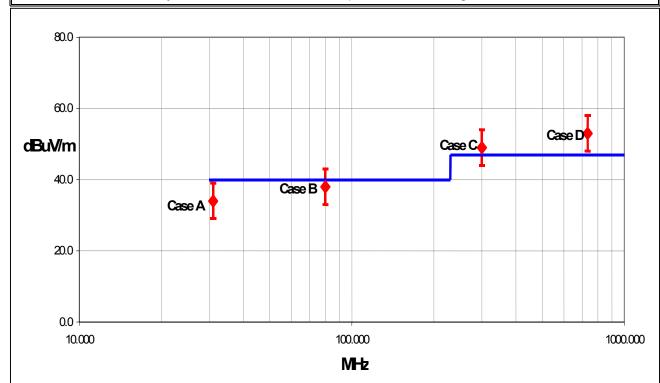
When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. The following 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)				
	Probability		nical	Log Pe	eriodic	D	ipole
	Distribution Antenna		Ante	enna	An	tenna	
Test Distance		3m	10m	3m	10m	3m	10m
Combined standard	normal	+ 1.86	+ 1.82	+ 2.23	+ 1.29	+ 1.31	+ 1.25
uncertainty <b>u</b> <sub>c</sub> ( <b>y</b> )		- 1.88	- 1.87	- 1.41	- 1.26	- 1.27	- 1.25
Expanded uncertainty <i>U</i>	normal (k=2)	+ 3.72	+ 3.64	+ 4.46	+ 2.59	+ 2.61	+ 2.49
(level of confidence ≈ 95%)		- 3.77	- 3.73	-2.81	- 2.52	- 2.55	- 2.49

Radiated Emissions > 1 GHz	Value (dB)		
	Probability Distribution	Without High Pass Filter	With High Pass Filter
Combined standard uncertainty $u_c(y)$	normal	+ 1.29 - 1.25	+ 1.38 - 1.35
Expanded uncertainty <i>U</i> (level of confidence ≈ 95%)	normal (k=2)	+ 2.57 - 2.51	+ 2.76 2.70

Conducted Emissions		
	Probability	Value
	Distribution	(+/- dB)
Combined standard uncertainty <i>uc(y)</i>	normal	1.48
Expanded uncertainty <b>U</b> (level of confidence ≈ 95 %)	normal (k = 2)	2.97

Radiated Immunity		
	Probability	Value
	Distribution	(+/- dB)
Combined standard uncertainty uc(y)	normal	1.05
Expanded uncertainty <i>U</i> (level of confidence ≈ 95 %)	normal (k = 2)	2.11

Conducted Immunity		
	Probability	Value
	Distribution	(+/- dB)
Combined standard uncertainty <i>uc(y)</i>	normal	1.05
Expanded uncertainty <i>U</i>	normal (k = 2)	2.10
(level of confidence ≈ 95 %)	Hormai (K – 2)	2.10

#### Legend

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

 $\it U$  = combined standard uncertainty multiplied by the coverage factor:  $\it k$ . 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  $\it k$ =3 (CL of 99.7%) can be used. Please note that with a coverage factor of one, uc(y) yields a confidence level of only 68%.

# **Facilities**



# 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 339<sup>th</sup> Ave. SE Sultan, WA 98294 (888) 364-2378 FAX (360) 793-2536

# **Product Description**

Revision 10/3/03

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:	302MIAG-CV60	
First Date of Test:	09-7-2004	
Last Date of Test:	09-27-2004	
Receipt Date of Samples:	09-01-2004	
Equipment Design Stage:	Production	
Equipment Condition:	No visual damage.	

# Information Provided by the Party Requesting the Test

Clocks/Oscillators:	Not provided
I/O Ports:	Keyboard, Serial (2), USB (2), Ethernet, Audio Out, Microphone

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

Fork lift mounted communications terminal / data collection PC with 802.11 a/b/g wireless operation. No TPC or DFS capability.

#### **Client Justification for EUT Selection:**

Production sample

#### **Client Justification for Test Selection:**

These tests satisfy the requirements for FCC15.407. Reference Test Report # ITRM0039 for 15.247 test results.

# Other Information:

Client did not provide any additional information.

### **EUT Photo**



# **Modifications**

Revision 4/28/03

	Equipment modifications				
Item	Test	Date	Modification	Note	Disposition of EUT
1	AC Powerline Conducted Emissions	09/07/2004	No EMI suppression devices were added or modified during this test.	Same configuration as delivered.	EUT remained at Northwest EMC.
2	Spurious Radiated Emissions	09/10/2004	No EMI suppression devices were added or modified during this test.	Same configuration as in previous test	EUT remained at Northwest EMC.
3	Emission Bandwidth	09/27/2004	No EMI suppression devices were added or modified during this test.	Same configuration as in previous test.	EUT remained at Northwest EMC.
4	Peak Transmit Power	09/27/2004	No EMI suppression devices were added or modified during this test.	Same configuration as in previous test.	EUT remained at Northwest EMC.
5	Power Spectral Density	09/27/2004	No EMI suppression devices were added or modified during this test.	Same configuration as in previous test.	EUT remained at Northwest EMC.
6	Peak Excursion of the Modulation Envelope	09/27/2004	No EMI suppression devices were added or modified during this test.	Same configuration as in previous test.	EUT remained at Northwest EMC.
7	Frequency Stability	09/27/2004	No EMI suppression devices were added or modified during this test.	Same configuration as in previous test.	EUT remained at Northwest EMC.

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# **Emission Bandwidth**

Revision 10/1/03

#### **Justification**

The individuals and/or the organization requesting the test provided the modes, configurations and settings available to evaluate. While scanning the radiated emissions, all of the EUT parameters listed below were investigated. This includes, but may not be limited to, antennas, tuned transmit frequency ranges, operating modes, and data rates.

Channels in Specified Band Investigated:
Ch 36 (5180 MHz)
Ch 40 (5200 MHz)
Ch 48 (5240 MHz)
Ch 52 (5260 MHz)
Ch 60 (5300 MHz)
Ch 64 (5320 MHz)
Ch 149 (5745 MHz)
Ch 155 (5775 MHz)
Ch 161 (5805 MHz)

# **Operating Modes Investigated:**

Typical

54 Mbit

Data Rates Investigated:	
6 Mbit	
36 Mbit	

# **Output Power Setting(s) Investigated:**

Maximum default

#### **Power Input Settings Investigated:**

120 VAC, 60 Hz.

Software\Firmware Applied During Test								
Exercise software	cTxRx	Version	2.3.0.0					
Description								
l <del></del>								

The system was tested using special software developed to test all functions of the device during the test including transmit channel, mode, data rate, and output power.

EUT and Peripherals								
Description	Manufacturer	Model/Part Number	Serial Number					
EUT- 802.11(a)/(b)/(g) radio	Intermec	802MIAG-CV60	002-032					
Host PC	Intermec Technologies Corporation	CV60	23100400645					
USB Mouse	Belkin	F8E201-USB	211006039					
Keyboard	Cherry	hL4186	C000435J50					
Power Supply	Kynet	SNP-PA57	5228227					

# **Emission Bandwidth**

Revision 10/1/03

Cables							
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2		
USB	Yes	1.1	No	Host PC	USB Mouse		
Keyboard	PA	1.5	PA	Host PC	Keyboard		
DC Leads	PA	1.0	PA	Host PC	Power Supply		
AC Power	No	2.0	No	Power Supply	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 Interva							
Spectrum Analyzer	Tektronix	2784	AAO	02/26/2003	24 mo		

#### **Test Description**

**Requirements:** Per 15.403(c), "...the emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier. Determination of the emissions bandwidth is based on the use of measurement instrumentation employing a peak detector function with an instrument resolutions bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement."

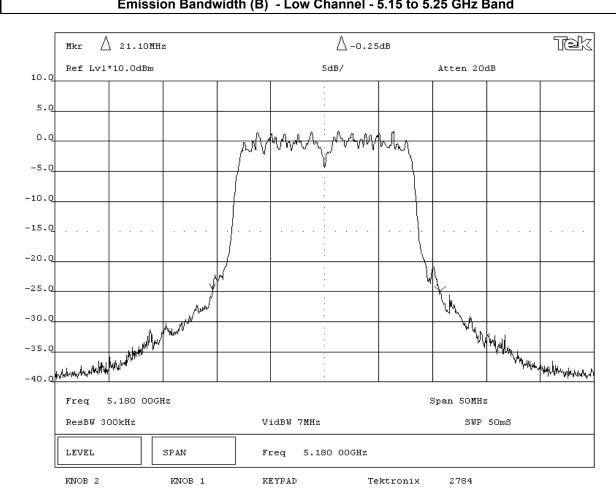
**Configuration:** FCC Public Notice DA 02-2138 was followed. The transmit frequency was set to the lowest, a medium, and the highest channels in each band. The transmit power was set to its default maximum. The lowest, a medium, and the highest data rates were measured. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input.

The spectrum analyzer settings were as follows:

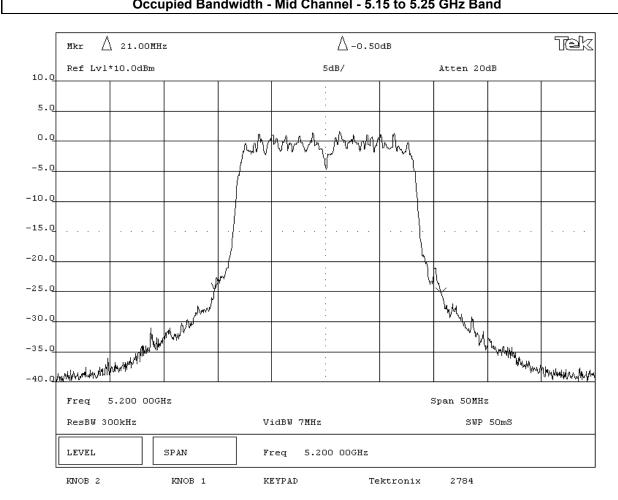
- Span = approximately 1.5 to 2 times the emission bandwidth, centered on the transmit channel.
- RBW = Approx. 1% of the emission bandwidth (B). This was an iterative process where an exact match of 1% may not be achieved. The largest value of RBW that came close to 1% of the emission bandwidth was used.
- A peak detector was used.
- The marker-delta function was then used to measure 26 dB emission bandwidth.

# Completed by:

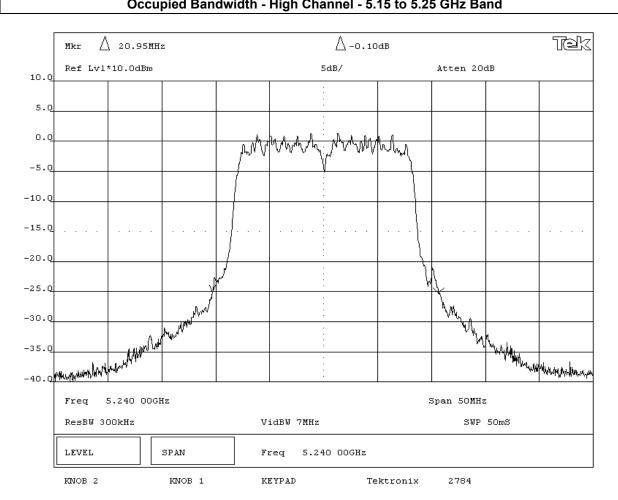
EMC		<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01
	802MIAG-CV60				Work Order:	ITRM0041
Serial Number:	002-032				Date:	09/27/04
Customer:	Intermec Corporation				Temperature:	72F
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A		Power:	120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	NS .					
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	4 Year:	2002, 2001
SAMPLE CALCULATI	ONS					
COMMENTS						
Tested in CV60 Comp						
<b>EUT OPERATING MO</b>						
	Maximum output power.					
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS						
	dth shall be determined by measu equal to 1% of the emission bandw		odulated carrier using	measurment instrumen	tation employing a pe	ak detector and a
RESULTS			BANDWIDTH			
Pass			21.1 MHz			
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TE						
	Emission Ra	ndwidth (R) - Low	Channal - 5 1	5 to 5 25 GHz	Rand	



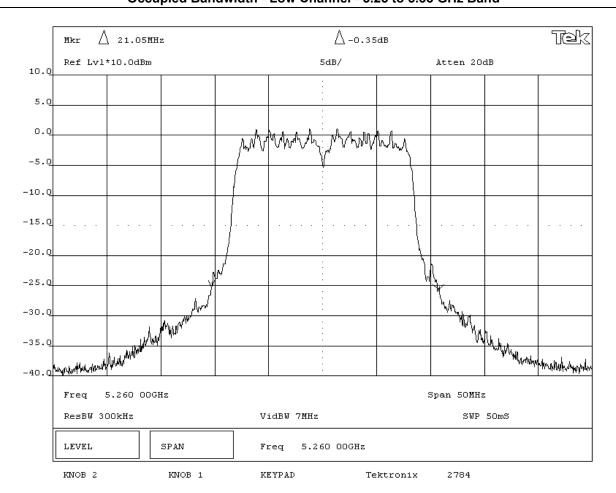
EMC		<b>EMISSIONS</b>	DATA SH	EET			Rev BETA 01/30/01
	802MIAG-CV60				Work Order:	ITRM0041	
Serial Number:	002-032				Date:	09/27/04	
Customer:	Intermec Corporation				Temperature:	72F	
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH	
Customer Ref. No.:	N/A		Power:	120 V, 60 Hz	Job Site:	EV06	
TEST SPECIFICATION	NS						
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001	
SAMPLE CALCULATI	ONS						
COMMENTS							
Tested in CV60 Comp							
EUT OPERATING MO							
	Maximum output power.						
DEVIATIONS FROM T	EST STANDARD						
None							
REQUIREMENTS							
	equal to 1% of the emission band	uring the 26 dB bandwidth of the m width.	lodulated carrier using i	measurment instrumer	itation employing a pe	ak detector a	anu a
RESULTS			BANDWIDTH				
Pass			21.0 MHz				
SIGNATURE							
Tested By:	ADU.K.P						
DESCRIPTION OF TE		Bandwidth - Mid Cl	nannol - 5 15 1	to 5 25 GHz F	Rand		



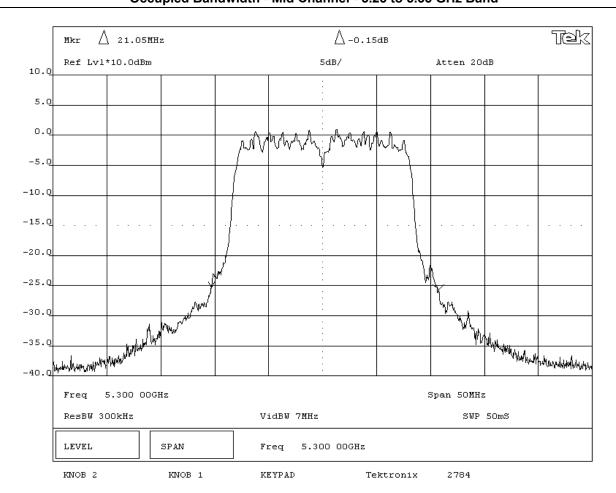
EMC		<b>EMISSIONS</b> I	DATA SH	EET		Rev BETA 01/30/01
EUT:	802MIAG-CV60				Work Order:	ITRM0041
Serial Number:	002-032				Date:	09/27/04
Customer:	Intermec Corporation				Temperature:	72F
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A		Power:	120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	NS					
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	4 Year:	2002, 2001
SAMPLE CALCULATI	ONS					
COMMENTS						
Tested in CV60 Comp						
<b>EUT OPERATING MO</b>						
	Maximum output power.					
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS						
	dth shall be determined by measu equal to 1% of the emission bandw		odulated carrier using	measurment instrumen	tation employing a pe	ak detector and a
RESULTS			BANDWIDTH			
Pass			20.95 MHz			
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TE						
	Occupied F	Bandwidth - High Cl	hannal <sub>-</sub> 5 15	to 5 25 GHz F	Rand	



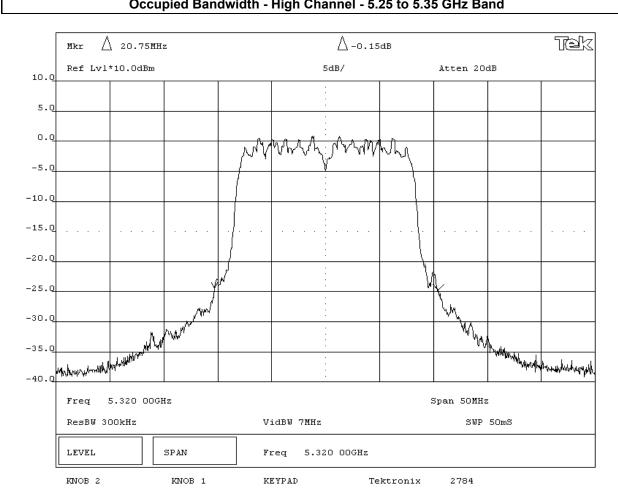
EMC		<b>EMISSIONS I</b>	DATA SH	EET		Rev BETA
	802MIAG-CV60				Work Order:	01/30/01
Serial Number:						09/27/04
	Intermec Corporation			0 10 1	Temperature:	
Attendees: Customer Ref. No.:				Greg Kiemel 120 V. 60 Hz	Humidity: Job Site:	
TEST SPECIFICATION			Power:	120 V, 60 HZ	Job Site:	EVU6
		Year: 2002	Mathada	DA 02-2138, ANSI C63	4 Vanu	2002, 2001
SAMPLE CALCULATI	47 CFR 15.407(a)(1)-(3)	Tear: 2002	wethou:	DA 02-2130, ANSI C63	.4 fear:	2002, 2001
COMMENTS						
Tested in CV60 Comp						
EUT OPERATING MO						
	Maximum output power.					
<b>DEVIATIONS FROM T</b>	EST STANDARD					
None						
REQUIREMENTS						
	dth shall be determined by measur qual to 1% of the emission bandw		odulated carrier using	measurment instrumen	tation employing a pe	ak detector and a
RESULTS			BANDWIDTH			
Pass			21.05 MHz			
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TE	ST					
	Occupied F	Randwidth - Low Ch	nannel - 5 25	to 5 35 GHz F	Rand	



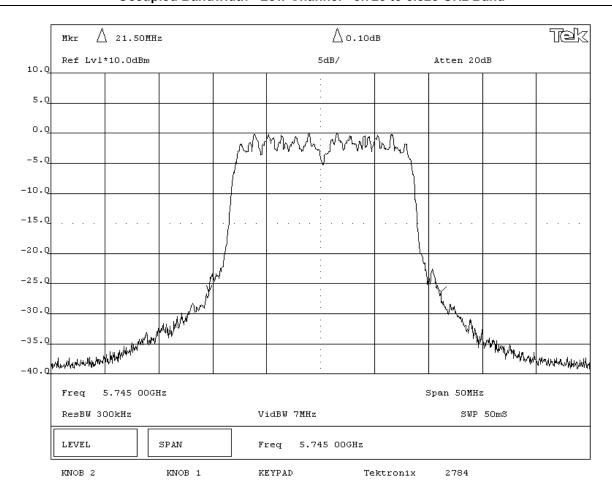
EMC		<b>EMISSIONS I</b>	DATA SH	EET		Rev BETA 01/30/01
	802MIAG-CV60				Work Order:	
Serial Number:						09/27/04
	Intermec Corporation				Temperature:	
Attendees:			Tosted by:	Greg Kiemel	Humidity:	
Customer Ref. No.:				120 V. 60 Hz	Job Site:	
TEST SPECIFICATION			1 011011	120 0, 00 112	502 51101	
	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001
SAMPLE CALCULATI						
COMMENTS						
Tested in CV60 Comp						
EUT OPERATING MO						
	Maximum output power.					
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS						
	dth shall be determined by measur equal to 1% of the emission bandw		odulated carrier using	measurment instrumen	itation employing a pe	ak detector and a
RESULTS			BANDWIDTH			
Pass			21.05 MHz			
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TE	ST					
	Occupied	Bandwidth - Mid Ch	annel - 5 25 i	to 5 35 GHz F	Rand	



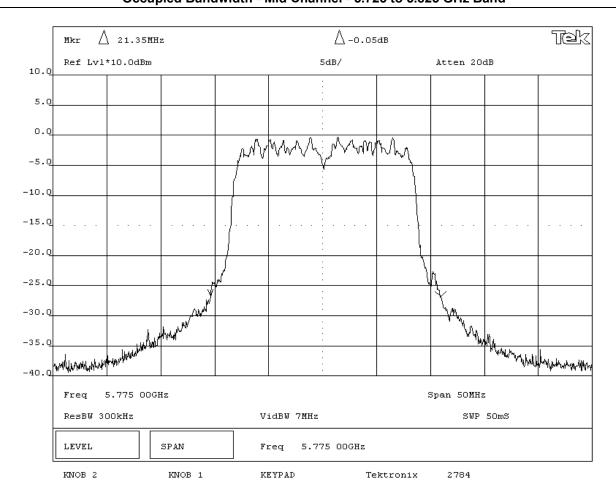
EMC		<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01
	802MIAG-CV60				Work Order:	ITRM0041
Serial Number:	002-032				Date:	09/27/04
Customer:	Intermec Corporation				Temperature:	72F
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A		Power:	120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	NS					
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	4 Year:	2002, 2001
SAMPLE CALCULATION	ONS					
COMMENTS						
Tested in CV60 Comp						
EUT OPERATING MO						
	Maximum output power.					
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS			1141			1 1 4 4 4 1
	dth shall be determined by measu equal to 1% of the emission bandw		modulated carrier using	measurment instrumen	tation employing a pe	ak detector and a
RESULTS			BANDWIDTH			
Pass			20.75 MHz			
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TES		Sandwidth - High (	Channal 5.25	to 5 25 GHz 5	Rand	



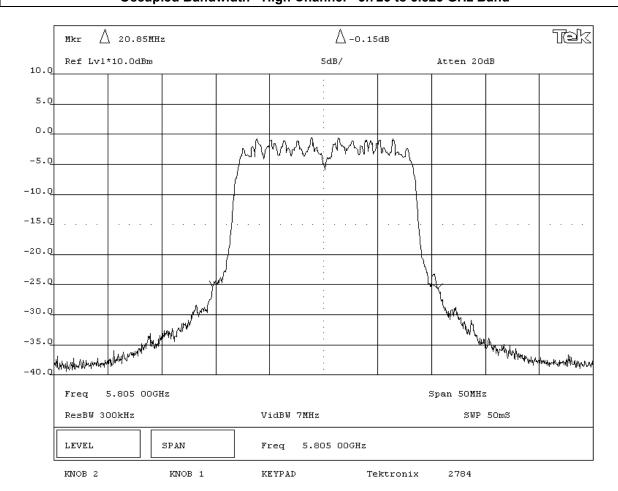
EMC		<b>EMISSION</b>	S DATA SH	EET		Rev BETA 01/30/01
EUT:	802MIAG-CV60				Work Order:	ITRM0041
Serial Number:	002-032				Date:	09/27/04
Customer:	Intermec Corporation				Temperature:	72F
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A		Power:	120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	NS					
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	4 Year:	2002, 2001
SAMPLE CALCULATION	ONS					
COMMENTS						
Tested in CV60 Comp	uter					
EUT OPERATING MO						
Modulated at 6 Mbit. N	Maximum output power.					
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS						
	dth shall be determined by me equal to 1% of the emission ba	asuring the 26 dB bandwidth of ndwidth.	the modulated carrier using	measurment instrumen	tation employing a pe	ak detector and a
RESULTS			BANDWIDTH			
Pass			21.5 MHz			
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TES	ST					
	Occupied	Bandwidth - Low	Channel - 5.725	to 5.825 GHz	Band	



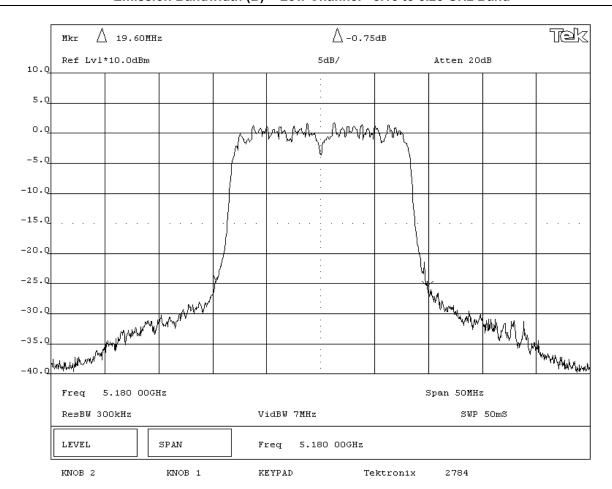
EMC		<b>EMISSIONS I</b>	DATA SH	EET		Rev BETA 01/30/01
	802MIAG-CV60				Work Order:	
Serial Number:						09/27/04
	Intermec Corporation				Temperature:	
Attendees:			Tosted by:	Greg Kiemel	Humidity:	
Customer Ref. No.:				120 V. 60 Hz	Job Site:	
TEST SPECIFICATION			1 0 11 0 11	120 0, 00 112	502 51101	
	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001
SAMPLE CALCULATI						
COMMENTS						
Tested in CV60 Comp						
EUT OPERATING MO						
	Maximum output power.					
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS						
	dth shall be determined by measur equal to 1% of the emission bandw		odulated carrier using	measurment instrumen	itation employing a pe	ak detector and a
RESULTS			BANDWIDTH			
Pass			21.35 MHz			
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TE	ST					
	Occupied R	andwidth - Mid Cha	nnel - 5 725 i	to 5 825 GHz	Rand	



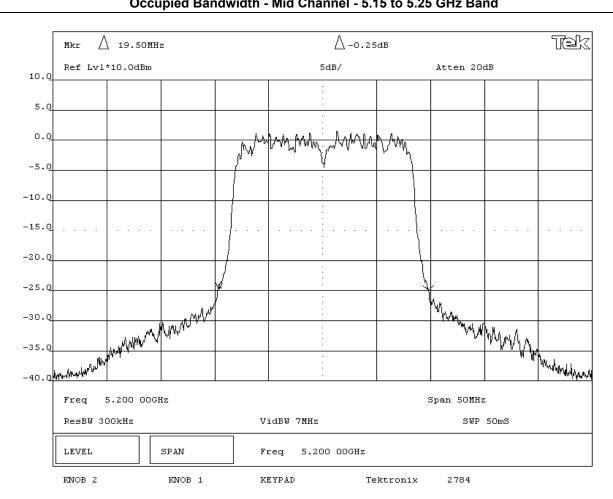
EMC		<b>EMISSIONS</b>	S DATA SH	EET		Rev BETA 01/30/01
EUT:	802MIAG-CV60				Work Order:	ITRM0041
Serial Number:	002-032				Date:	09/27/04
Customer:	Intermec Corporation				Temperature:	72F
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A		Power:	120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	IS					
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001
SAMPLE CALCULATION	ONS					
COMMENTS						
Tested in CV60 Comp	uter					
EUT OPERATING MO						
Modulated at 6 Mbit. N	Maximum output power.					
<b>DEVIATIONS FROM T</b>	EST STANDARD					
None						
REQUIREMENTS						
	dth shall be determined by mea qual to 1% of the emission bar	asuring the 26 dB bandwidth of th adwidth.	e modulated carrier using	measurment instrumer	tation employing a pe	ak detector and a
RESULTS			BANDWIDTH			
Pass			20.85 MHz			
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TES		Bandwidth - High C	Channel - 5.725	to 5.825 GHz	Band	



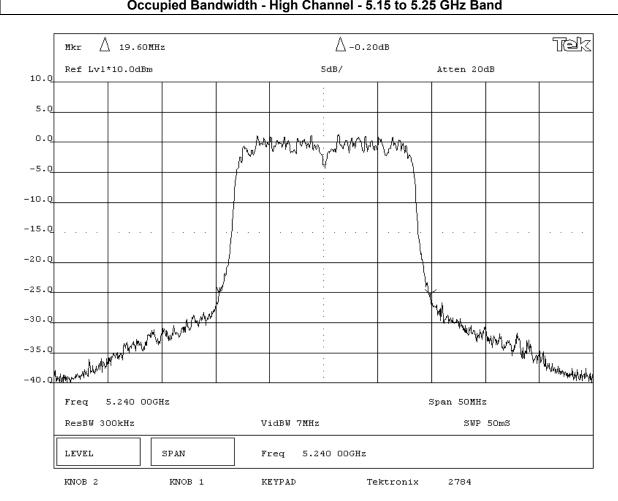
EMC		EMISSION	S DATA SH	EET		Rev BETA 01/30/01
EUT:	802MIAG-CV60				Work Order:	ITRM0041
Serial Number:	002-032				Date:	09/27/04
Customer:	Intermec Corporation				Temperature:	72F
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A		Power:	120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	IS					
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001
SAMPLE CALCULATI	ONS					
COMMENTO						
COMMENTS Tested in CV60 Comp	utor					
EUT OPERATING MO						
	Maximum output power.					
DEVIATIONS FROM T						
None	EST STANDARD					
REQUIREMENTS						
	dth shall be determined by me qual to 1% of the emission bar	asuring the 26 dB bandwidth of ndwidth.	the modulated carrier using	measurment instrumer	ntation employing a pe	ak detector and a
RESULTS			BANDWIDTH			
Pass			19.6 MHz			
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TE	ST					
	Emission E	Bandwidth (B) - Lo	ow Channel - 5.1	5 to 5.25 GH	z Band	



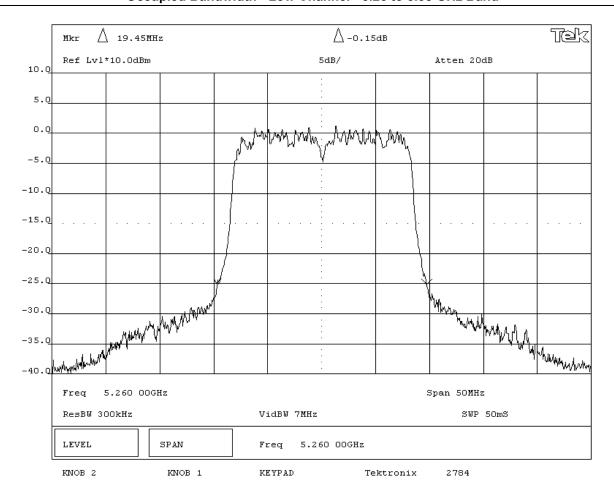
EMC		<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01
	802MIAG-CV60				Work Order:	ITRM0041
Serial Number:	002-032				Date:	09/27/04
Customer	Intermec Corporation				Temperature:	72F
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A		Power:	120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	NS					
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	4 Year:	2002, 2001
SAMPLE CALCULATI	ONS					
COMMENTS						
Tested in CV60 Comp						
EUT OPERATING MO						
	Maximum output power.					
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS						
	dth shall be determined by measur equal to 1% of the emission bandw		odulated carrier using	measurment instrumen	tation employing a pe	ak detector and a
RESULTS			BANDWIDTH			
Pass			19.5 MHz			
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TE	ST					
Ī	Occupied	Randwidth - Mid Ch	12nnol - 5 15	to 5 25 GHz B	land	



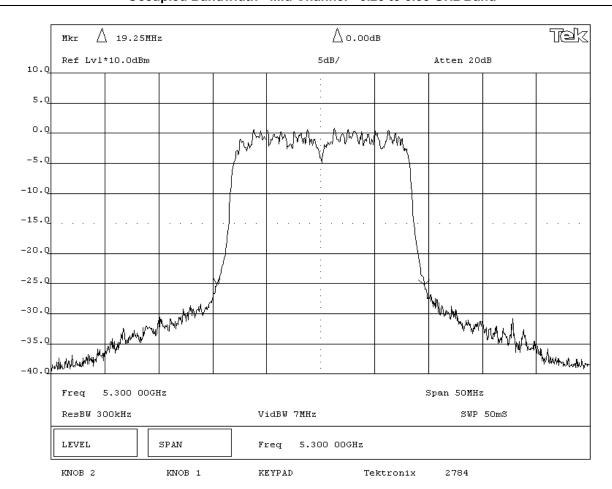
EMC		<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01
	802MIAG-CV60				Work Order:	ITRM0041
Serial Number:	002-032				Date:	09/27/04
Customer:	Intermec Corporation				Temperature:	72F
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A		Power:	120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	NS					
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	4 Year:	2002, 2001
SAMPLE CALCULATION	ONS					
COMMENTS						
Tested in CV60 Comp						
EUT OPERATING MO						
	Maximum output power.					
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS	dth shall be determined by measu	-i 4b 00 dD bdi-d4b£4b			4-4i	-11-44
	equal to 1% of the emission bandw		modulated carrier using	measurment instrumen	tation employing a pe	ak detector and a
RESULTS			BANDWIDTH			
Pass			19.60 MHz			
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TES		Sandwidth - High (	Channal 5.15	to 5 25 GHz 5	Rand	



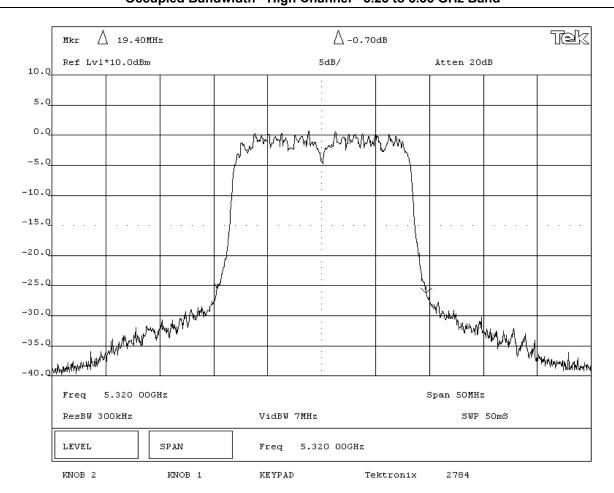
EMC		<b>EMISSIONS</b>	S DATA SH	EET		Rev BETA 01/30/01
EUT:	802MIAG-CV60				Work Order:	ITRM0041
Serial Number:	002-032				Date:	09/27/04
Customer:	Intermec Corporation				Temperature:	72F
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A		Power:	120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	NS					
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	4 Year:	2002, 2001
SAMPLE CALCULATION	ONS					
COMMENTS						
Tested in CV60 Comp	uter					
EUT OPERATING MO						
	Maximum output power.					
DEVIATIONS FROM T						
None						
REQUIREMENTS						
	dth shall be determined by me equal to 1% of the emission ba	asuring the 26 dB bandwidth of t ndwidth.	he modulated carrier using	measurment instrumen	tation employing a pe	ak detector and a
RESULTS			BANDWIDTH			
Pass			19.45 MHz			
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TE	ST					
	Occupie	d Bandwidth - Low	Channel - 5.25	to 5.35 GHz E	Band	·



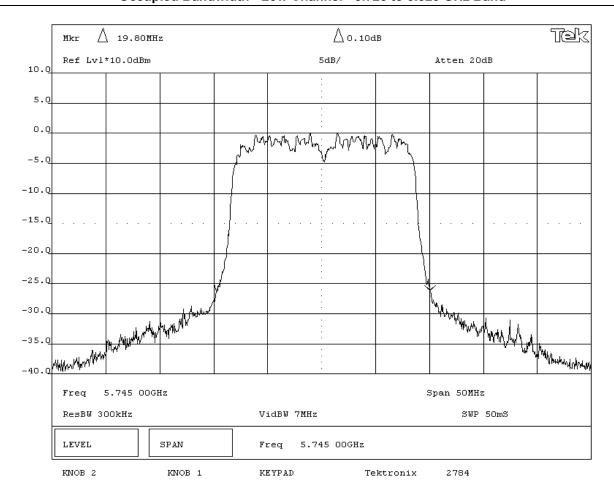
EMC		<b>EMISSION</b>	S DATA SH	EET		Rev BETA 01/30/01
EUT:	802MIAG-CV60				Work Order:	ITRM0041
Serial Number:	002-032				Date:	09/27/04
Customer:	Intermec Corporation				Temperature:	72F
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A		Power:	120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	1S					
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	4 Year:	2002, 2001
SAMPLE CALCULATION	ONS					
COMMENTS						
Tested in CV60 Comp	uter					
EUT OPERATING MO	DES					
Modulated at 36 Mbit.	Maximum output power.					
<b>DEVIATIONS FROM T</b>	EST STANDARD					
None						
REQUIREMENTS						
	dth shall be determined by me qual to 1% of the emission ba	asuring the 26 dB bandwidth of ndwidth.	the modulated carrier using	measurment instrumen	tation employing a pe	ak detector and a
RESULTS			BANDWIDTH			
Pass			19.25 MHz			
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TES	ST					
	Occupie	d Bandwidth - Mic	Channel - 5.25	to 5.35 GHz E	Band	



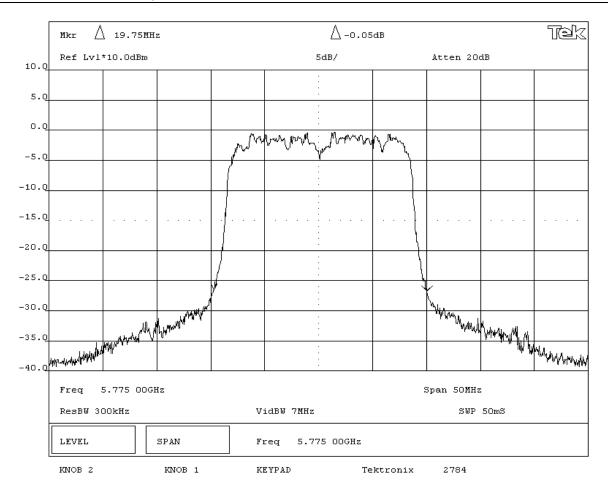
EMC		<b>EMISSIONS</b> I	DATA SH	EET		Rev BETA 01/30/01
EUT:	802MIAG-CV60				Work Order:	ITRM0041
Serial Number:	002-032				Date:	09/27/04
Customer:	Intermec Corporation				Temperature:	72F
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A		Power:	120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	NS					
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001
SAMPLE CALCULATI	ONS					
COMMENTS						
Tested in CV60 Comp						
EUT OPERATING MO						
	Maximum output power.					
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS						
	dth shall be determined by measu equal to 1% of the emission bandw		odulated carrier using	measurment instrumer	ntation employing a pe	ak detector and a
RESULTS			BANDWIDTH			
Pass			19.40 MHz			
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TE		Sandwidth - High C	hommel 5.05	40 E 25 CU- I	Donal	
	Uccubied i	sanowinin - Hinn G	NAUNEL - 5 /5	10 5 55 (107)	<b>DAUU</b>	



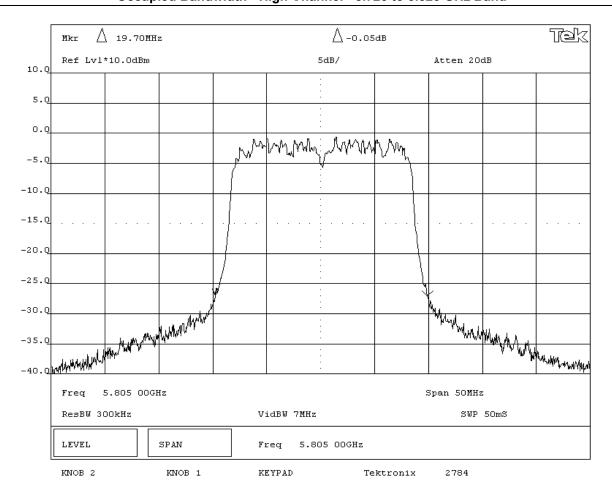
EMC		<b>EMISSION</b>	S DATA SH	EET		Rev BETA 01/30/01
EUT:	802MIAG-CV60				Work Order:	ITRM0041
Serial Number:	002-032				Date:	09/27/04
Customer:	Intermec Corporation				Temperature:	72F
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A		Power:	120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	1S					
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	4 Year:	2002, 2001
SAMPLE CALCULATION	ONS					
COMMENTS						
Tested in CV60 Comp	uter					
EUT OPERATING MO	DES					
Modulated at 36 Mbit.	Maximum output power.					
<b>DEVIATIONS FROM T</b>	EST STANDARD					
None						
REQUIREMENTS						
	dth shall be determined by me qual to 1% of the emission ba	asuring the 26 dB bandwidth of ndwidth.	the modulated carrier using	measurment instrumen	tation employing a pe	ak detector and a
RESULTS			BANDWIDTH			
Pass			19.80 MHz			
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TES	ST					
	Occupied	Bandwidth - Low	Channel - 5.725	to 5.825 GHz	Band	



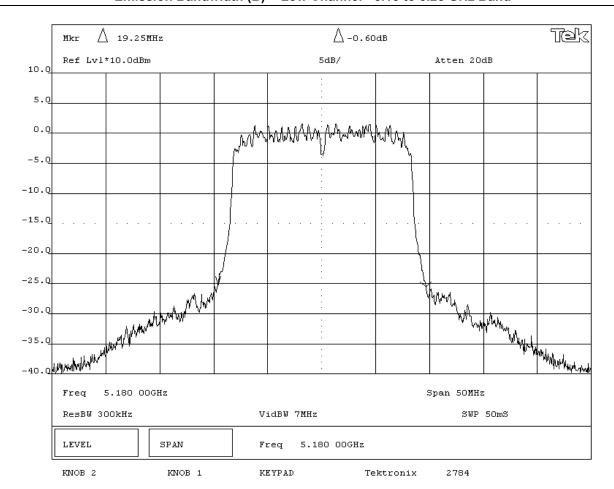
EMC	EMC EMISSIONS DATA SHEET Rev BE								
EUT:	802MIAG-CV60				Work Order:	ITRM0041			
Serial Number:	002-032				Date:	09/27/04			
Customer:	Intermec Corporation				Temperature:	72F			
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH			
Customer Ref. No.:	N/A		Power:	120 V, 60 Hz	Job Site:	EV06			
TEST SPECIFICATION	IS								
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	4 Year:	2002, 2001			
SAMPLE CALCULATION	ONS								
COMMENTS									
Tested in CV60 Comp							_		
<b>EUT OPERATING MOI</b>									
	Maximum output power.								
DEVIATIONS FROM T	EST STANDARD								
None									
REQUIREMENTS									
	dth shall be determined by measur qual to 1% of the emission bandwi		odulated carrier using	measurment instrumen	tation employing a pe	ak detector and a			
RESULTS			BANDWIDTH						
Pass			19.75 MHz						
SIGNATURE									
Tested By:	ARU.K.P								
DESCRIPTION OF TES	ST								
	Occupied B	andwidth - Mid Cha	nnel - 5.725	to 5.825 GHz	Band				



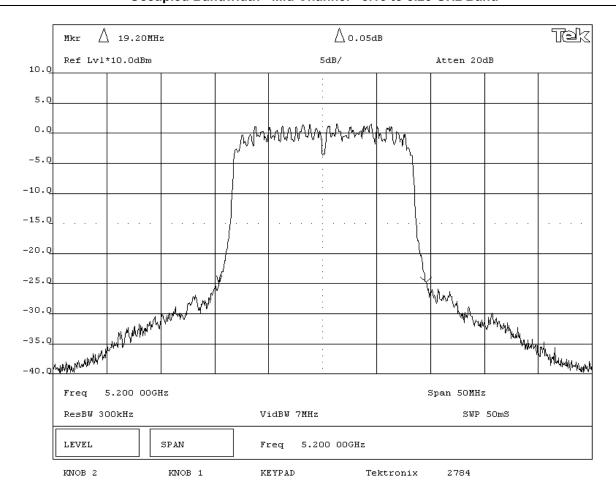
EMC		EMISSION	S DATA SH	EET		Rev BETA 01/30/01
EUT:	802MIAG-CV60				Work Order:	ITRM0041
Serial Number:	002-032				Date:	09/27/04
Customer:	Intermec Corporation				Temperature:	72F
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A		Power:	120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	NS					
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	4 Year:	2002, 2001
SAMPLE CALCULATI	ONS					
COMMENTS						
Tested in CV60 Comp	uter					
EUT OPERATING MO						
	Maximum output power.					
DEVIATIONS FROM T						
None						
REQUIREMENTS						
	dth shall be determined by me equal to 1% of the emission ba	asuring the 26 dB bandwidth of the state of	the modulated carrier using	measurment instrumen	tation employing a pe	ak detector and a
RESULTS			BANDWIDTH			
Pass			19.70 MHz			
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TE	ST					
	Occupied	Bandwidth - High	Channel - 5.725	to 5.825 GHz	Band	



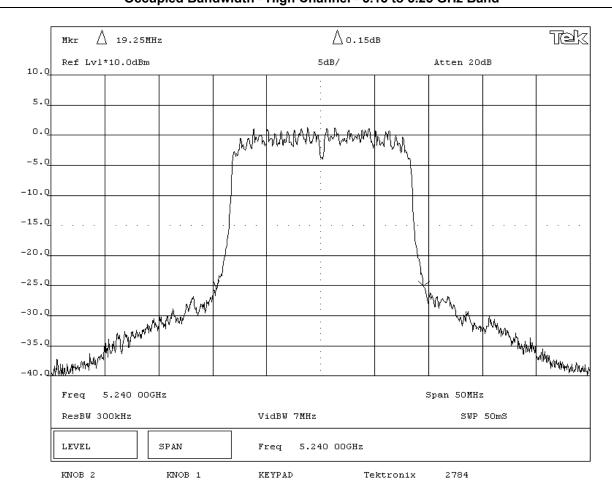
EMC		<b>EMISSION</b>	S DATA SH	EET		Rev BETA 01/30/01
EUT:	802MIAG-CV60				Work Order:	ITRM0041
Serial Number:	002-032				Date:	09/27/04
Customer:	Intermec Corporation				Temperature:	72F
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A		Power:	120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	1S					
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	4 Year:	2002, 2001
SAMPLE CALCULATION	ONS					
COMMENTS						
Tested in CV60 Comp	uter					
EUT OPERATING MO	DES					
Modulated at 54 Mbit.	Maximum output power.					
<b>DEVIATIONS FROM T</b>	EST STANDARD					
None						
REQUIREMENTS						
	dth shall be determined by me qual to 1% of the emission ba	asuring the 26 dB bandwidth of ndwidth.	the modulated carrier using	measurment instrumen	tation employing a pe	ak detector and a
RESULTS			BANDWIDTH			
Pass			19.25 MHz			
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TE	ST					
	Emission I	Bandwidth (B) - Lo	ow Channel - 5.1	5 to 5.25 GHz	z Band	



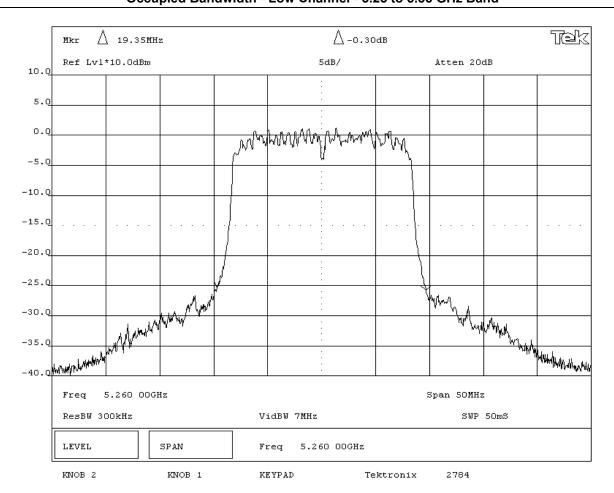
EMC		<b>EMISSION</b>	S DATA SH	EET		Rev BETA 01/30/01
EUT:	802MIAG-CV60				Work Order:	ITRM0041
Serial Number:	002-032				Date:	09/27/04
Customer:	Intermec Corporation				Temperature:	72F
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A		Power:	120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	1S					
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	4 Year:	2002, 2001
SAMPLE CALCULATION	ONS					
COMMENTS						
Tested in CV60 Comp	uter					
EUT OPERATING MO	DES					
Modulated at 54 Mbit.	Maximum output power.					
DEVIATIONS FROM T	EST STANDARD					
None						
REQUIREMENTS						
	dth shall be determined by me qual to 1% of the emission ba	asuring the 26 dB bandwidth of ndwidth.	the modulated carrier using	measurment instrumen	tation employing a pe	ak detector and a
RESULTS			BANDWIDTH			
Pass			19.20 MHz			
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TES	ST					
	Occupie	d Bandwidth - Mic	Channel - 5.15	to 5.25 GHz E	Band	



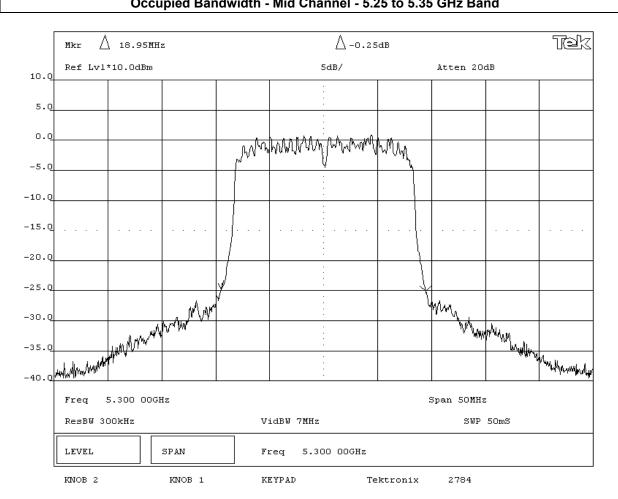
EMC		<b>EMISSIONS</b> I	DATA SH	EET			Rev BETA 01/30/01	
EUT:	802MIAG-CV60				Work Order:	ITRM0041		
Serial Number:	002-032				Date:	09/27/04		
Customer:	Intermec Corporation				Temperature:	72F		
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH		
Customer Ref. No.:	N/A		Power:	120 V, 60 Hz	Job Site:	EV06		
TEST SPECIFICATION	NS							
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001	l	
SAMPLE CALCULATI	ONS							
COMMENTS								
Tested in CV60 Comp								
<b>EUT OPERATING MO</b>								
	Maximum output power.							
DEVIATIONS FROM T	EST STANDARD							
None								
	REQUIREMENTS							
	dth shall be determined by measu equal to 1% of the emission bandw	ring the 26 dB bandwidth of the medidth.	odulated carrier using	measurment instrumer	itation employing a pe	ak detector	and a	
RESULTS			BANDWIDTH					
Pass			19.25 MHz					
SIGNATURE								
Tested By:	ADU.K.P							
DESCRIPTION OF TE		2 - 1 - 144 - 145 - 1		1. 5.05.011	2			
1	Occurred F	Randwidth - High Cl	nannei - 5 15	TO 5 75 (iH7 )	Kana			



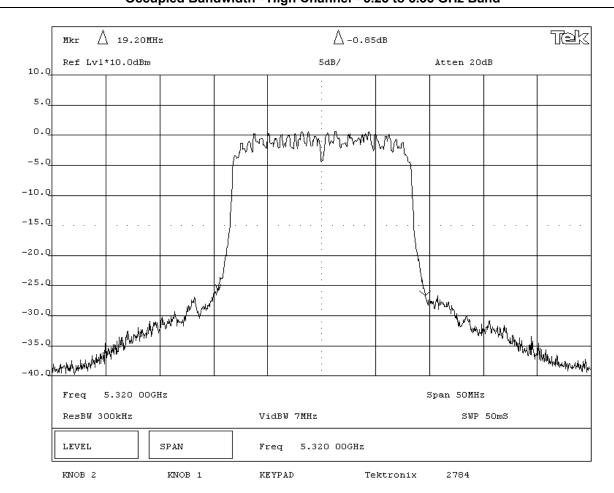
EMC		<b>EMISSIONS I</b>	DATA SH	EET		Rev BETA
	802MIAG-CV60				Work Order:	01/30/01
Serial Number:						09/27/04
	Intermec Corporation			0 10 1	Temperature:	
Attendees:				Greg Kiemel	Humidity:	
Customer Ref. No.:			Power:	120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION		V 0000				
	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001
SAMPLE CALCULATI	ONS					
COMMENTS						
Tested in CV60 Comp	uter					
<b>EUT OPERATING MO</b>	DES					
Modulated at 54 Mbit.	Maximum output power.					
<b>DEVIATIONS FROM T</b>	EST STANDARD					
None						
REQUIREMENTS						
	dth shall be determined by measur equal to 1% of the emission bandw		odulated carrier using	measurment instrumen	tation employing a pe	ak detector and a
RESULTS			BANDWIDTH			
Pass			19.35 MHz			
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TE	ST					
	Occupied F	Randwidth - Low Ch	nannel - 5 25	to 5 35 GHz F	Rand	



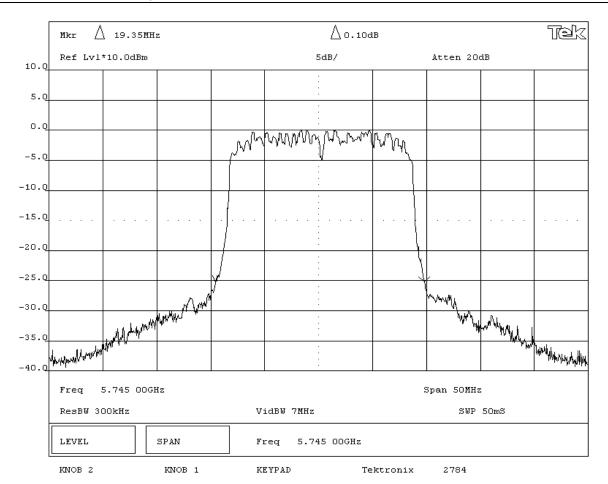
EMC		<b>EMISSIONS</b>	DATA SHEET		Rev BETA 01/30/01			
EUT:	802MIAG-CV60			Work Order:	ITRM0041			
Serial Number:	002-032			Date:	09/27/04			
Customer:	Intermec Corporation			Temperature:	72F			
Attendees:	None		Tested by: Greg Kiemel	Humidity:	38% RH			
Customer Ref. No.:	N/A		Power: 120 V, 60 Hz	Job Site:	EV06			
TEST SPECIFICATION	IS							
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C6	3.4 Year:	2002, 2001			
SAMPLE CALCULATION	ONS							
COMMENTS								
Tested in CV60 Comp								
EUT OPERATING MOI	Maximum output power.							
DEVIATIONS FROM TO None	EST STANDARD							
REQUIREMENTS								
	dth shall be determined by mea	suring the 26 dB bandwidth of the m	odulated carrier using measurment instrume	entation employing a ne	ak detector and a			
	qual to 1% of the emission band		ounded out not using model month model unit	manon omproying a po	an actorio ana a			
RESULTS			BANDWIDTH					
Pass	Pass 18.95 MHz							
SIGNATURE								
Tested By:	ADU.K.P							
DESCRIPTION OF TES		l Bandwidth Mid Ch	nannel - 5 25 to 5 35 GHz	Rand				



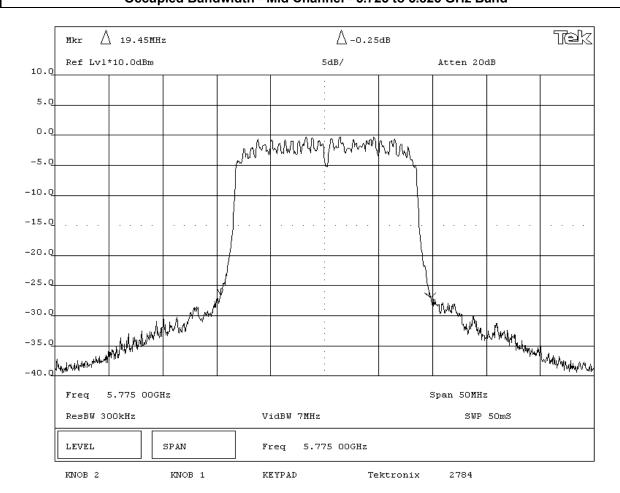
EMC		<b>EMISSIONS I</b>	DATA SH	EET		Rev BETA	
	802MIAG-CV60				Work Order:	01/30/01 ITPM0041	
Serial Number:						09/27/04	
	Intermec Corporation				Temperature:		
Attendees:			Tosted by:	Greg Kiemel	Humidity:		
Customer Ref. No.:				120 V. 60 Hz	Job Site:		
TEST SPECIFICATION			1 011011	120 0, 00 112	000 01101		
	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001	
SAMPLE CALCULATI						,	
COMMENTS							
Tested in CV60 Comp							
EUT OPERATING MO							
	Maximum output power.						
DEVIATIONS FROM T	EST STANDARD						
None							
REQUIREMENTS							
	dth shall be determined by measur equal to 1% of the emission bandw		odulated carrier using	measurment instrumen	itation employing a pe	ak detector and a	
RESULTS			BANDWIDTH				
Pass			19.20 MHz				
SIGNATURE							
Tested By:	ADU.K.P						
DESCRIPTION OF TE	ST						
	Occupied Bandwidth - High Channel - 5 25 to 5 35 GHz Band						



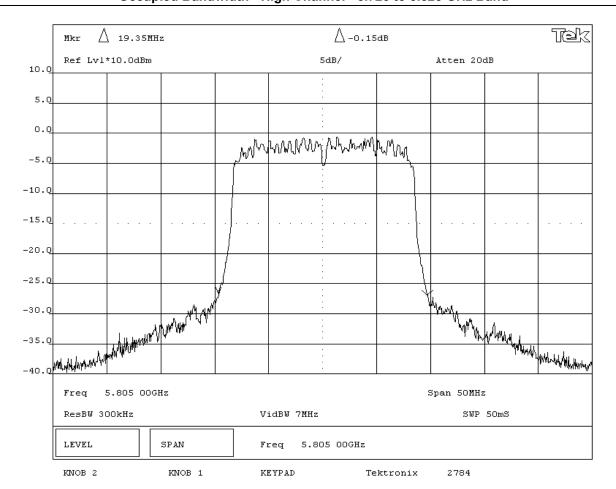
EMISSIONS DATA SHEET							
EUT:	802MIAG-CV60				Work Order:	ITRM0041	
Serial Number:	002-032				Date:	09/27/04	
Customer:	Intermec Corporation				Temperature:	72F	
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH	
Customer Ref. No.:			Power:	120 V, 60 Hz	Job Site:	EV06	
TEST SPECIFICATION							
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001	
SAMPLE CALCULATION	ONS						
COMMENTS							
Tested in CV60 Comp							
EUT OPERATING MOD							
Modulated at 54 Mbit.	Maximum output power.						
DEVIATIONS FROM T	EST STANDARD						
None							
REQUIREMENTS							
	dth shall be determined by measu qual to 1% of the emission bandv	ıring the 26 dB bandwidth of the me vidth.	odulated carrier using	measurment instrume	ntation employing a pe	ak detector and a	
RESULTS			BANDWIDTH				
Pass			19.35 MHz				
SIGNATURE							
Tested By:							
DESCRIPTION OF TES	ST						
Occupied Bandwidth - Low Channel - 5.725 to 5.825 GHz Band							



EMC		<b>EMISSIONS I</b>	DATA SH	EET		Rev BETA		
	802MIAG-CV60				Work Order:	01/30/01		
Serial Number:						09/27/04		
	Intermec Corporation				Temperature:			
Attendees:			Tested by:	Greg Kiemel	Humidity:			
Customer Ref. No.:				120 V. 60 Hz	Job Site:			
TEST SPECIFICATION			1 011011	120 0, 00 112	000 01101			
	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001		
SAMPLE CALCULATION								
COMMENTS								
Tested in CV60 Comp								
EUT OPERATING MO								
	Maximum output power.							
DEVIATIONS FROM T	EST STANDARD							
None								
REQUIREMENTS								
	dth shall be determined by measur qual to 1% of the emission bandw		odulated carrier using	measurment instrumen	itation employing a pe	ak detector and a		
RESULTS			BANDWIDTH					
Pass			19.45 MHz					
SIGNATURE								
Tested By:	ADU.K.P							
DESCRIPTION OF TES	ST							
	Occupied Bandwidth - Mid Channel - 5 725 to 5 825 GHz Band							



EMC		<b>EMISSION</b>	S DATA SH	EET		Rev BETA 01/30/01
EUT:	802MIAG-CV60				Work Order:	ITRM0041
Serial Number:	002-032				Date:	09/27/04
Customer:	Intermec Corporation				Temperature:	72F
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A		Power:	120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	IS					
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	4 Year:	2002, 2001
SAMPLE CALCULATION	ONS					
COMMENTS						
Tested in CV60 Comp	uter					
EUT OPERATING MO	DES					
Modulated at 54 Mbit.	Maximum output power.					
<b>DEVIATIONS FROM T</b>	EST STANDARD					
None						
REQUIREMENTS						
	dth shall be determined by me qual to 1% of the emission ba	asuring the 26 dB bandwidth of ndwidth.	the modulated carrier using	measurment instrumen	tation employing a pe	ak detector and a
RESULTS			BANDWIDTH			
Pass			19.35 MHz			
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TES	ST					
	Occupied	Bandwidth - High	<b>Channel - 5.725</b>	to 5.825 GHz	Band	





## **Peak Transmit Power**

Revision 10/1/03

### **Justification**

The individuals and/or the organization requesting the test provided the modes, configurations and settings available to evaluate. While scanning the radiated emissions, all of the EUT parameters listed below were investigated. This includes, but may not be limited to, antennas, tuned transmit frequency ranges, operating modes, and data rates.

Channels in Specified Band Investigated:
Ch 36 (5180 MHz)
Ch 40 (5200 MHz)
Ch 48 (5240 MHz)
Ch 52 (5260 MHz)
Ch 60 (5300 MHz)
Ch 64 (5320 MHz)
Ch 149 (5745 MHz)
Ch 155 (5775 MHz)
Ch 161 (5805 MHz)

### **Operating Modes Investigated:**

Typical

54 Mbit

Data Rates Investigated:	
6 Mbit	
36 Mbit	

# Output Power Setting(s) Investigated:

Maximum default

### **Power Input Settings Investigated:**

120 VAC, 60 Hz.

Software\Firmware Applied During Test							
Exercise software	cTxRx	Version	2.3.0.0				
Description							
l <del></del>							

The system was tested using special software developed to test all functions of the device during the test including transmit channel, mode, data rate, and output power.

EUT and Peripherals							
Description	Manufacturer	Model/Part Number	Serial Number				
EUT- 802.11(a)/(b)/(g) radio	Intermec	802MIAG-CV60	002-032				
Host PC	Intermec Technologies Corporation	CV60	23100400645				
USB Mouse	Belkin	F8E201-USB	211006039				
Keyboard	Cherry	hL4186	C000435J50				
Power Supply	Kynet	SNP-PA57	5228227				

Cables						
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2	
USB	Yes	1.1	No	Host PC	USB Mouse	
Keyboard	PA	1.5	PA	Host PC	Keyboard	
DC Leads	PA	1.0	PA	Host PC	Power Supply	
AC Power	No	2.0	No	Power Supply	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		
Spectrum Analyzer	Hewlett-Packard	8593E	AAN	04/01/2004	13 mo		
Signal Generator	Hewlett Packard	8341B	TGN	01/23/2004	13 mo		
Power Meter	Hewlett Packard	E4418A	SPA	07/23/2004	24 mo		
Power Sensor	Hewlett-Packard	8481H	SPB	07/23/2004	24 mo		
RF Detector	RLC Electronics	CR-133-R	ZZA	NCR	NA		
Oscilloscope	Tektronix	TDS 3052	TOF	07/21/2004	12 mo		

#### **Test Description**

**Requirements:** Per 15.403(e), Peak transmit power is, "....The maximum transmit power as measured over an interval of time of at most 30/B or the transmission pulse duration of the device, whichever is less, under all conditions of modulation." Note that B = 26 dB emission bandwidth of the signal. FCC Public Notice DA 02-2138 provides a new interpretation that allows averaging across the transmission pulse duration (T) - even if it is longer than 30/B. This was necessary to accommodate technologies with large emission bandwidths such as IEEE 802.11(a)

Per 15.403(a), the power limits are:

- (1) For the band 5.15-5.25 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 50 mW or 4 dBm + 10log B, where B is the 26-dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 4 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (2) For the band 5.25-5.35 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10log B, where B is the 26-dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (3) For the band 5.725-5.825 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 1 W or 17 dBm + 10log B, where B is the 26-dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 17 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **Peak Transmit Power**

Revision 10/1/03

**Configuration:** FCC Public Notice DA 02-2138 was followed. The transmit frequency was set to the lowest, a medium, and the highest channels in each band. The transmit power was set to its default maximum. The lowest, a medium, and the highest data rates were measured. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input. The amplitude accuracy of the spectrum analyzer was further enhanced by calibrating the setup using the power meter and synthesized signal generator.

Prior to measuring peak transmit power, the emission bandwidth (B) and the transmission pulse duration (T) were measured. Both are required to determine the method of measuring Peak Transmit Power. The method of measuring the emission bandwidth and the associated data are found elsewhere in this test report. The transmission pulse duration (T) was measured across a constant amplitude pulse using an RF detector diode and an oscilloscope. The scope photos precede the power measurement data.

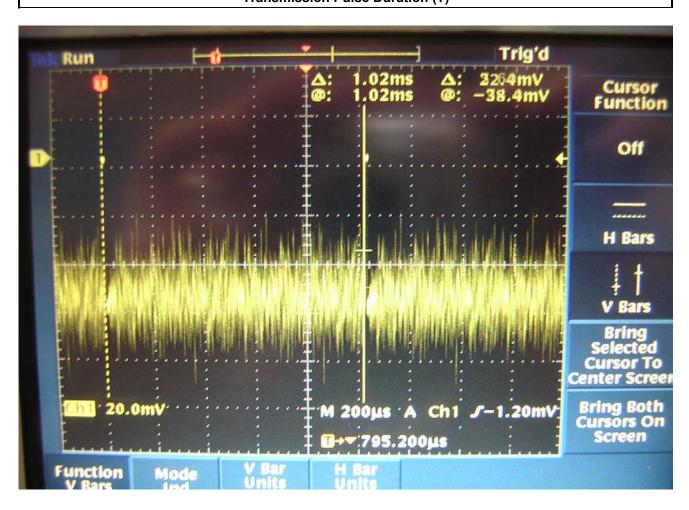
Method #3 found in FCC Public Notice DA02-2138 was used because the analyzer sweep time was greater than T, and the emission bandwidth (B) was greater than the largest RBW on the analyzer.

The spectrum analyzer settings were as follows:

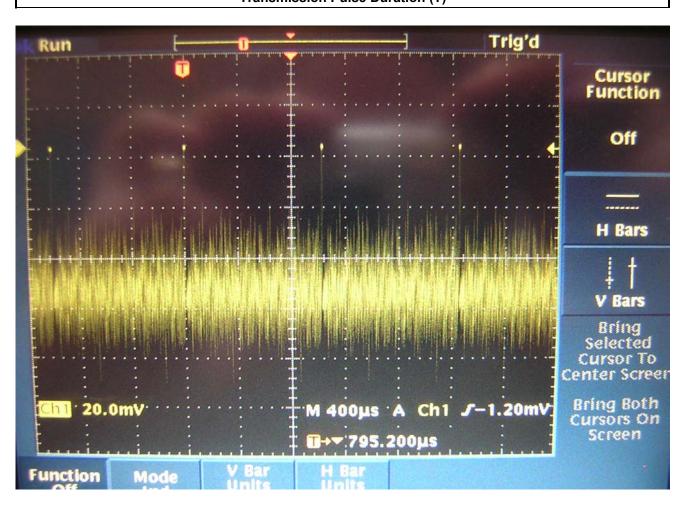
- > The span was set to encompass entire emission bandwidth (B), centered on the transmit channel.
- ➤ The RBW = 1 MHz, VBW >= 1/T
- Sample detector mode because the bin width (span / number of spectral points) < 0.5 RBW.</p>
- Max hold and allowed to run for 60 seconds.
- Power was integrated across "B", by using the channel power function of the analyzer.

Completed by:

EMC EMISSIONS DATA SHEET REV BE 01/30/00						
EUT: 802MIAG-CV60				Work Order:	7 77 7	
Serial Number: 002-032					09/27/04	
Customer: Intermec Corporation				Temperature:	72F	
Attendees: None	Attendees: None Tested by: Greg Kiemel					
Customer Ref. No.: N/A		Power:	120 V, 60 Hz	Job Site:	EV06	
TEST SPECIFICATIONS						
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001	
SAMPLE CALCULATIONS						
COMMENTS						
The output of the RF detector diode is negative polarity						
EUT OPERATING MODES						
The transmission pulse duration is the same for all dat	a rates and transmit channels.					
DEVIATIONS FROM TEST STANDARD						
None						
REQUIREMENTS						
Public Notice DA 02-2138 allows averaging across the tran required to determine the method of measuring Peak Trans		it is longer than 30/B (wh	ere B = 26 dB emission	bandwidth of the signal	). The value of T is	
RESULTS		Value of T				
Pass		1.02 mS				
SIGNATURE		-				
Tostod By:						
DESCRIPTION OF TEST						
	Transmission P	ulse Duration	(T)			



EMC EMISSIONS DATA SHEET REV BE 01/30/00						
EUT: 802MIAG-CV60				Work Order:	7 77 7	
Serial Number: 002-032					09/27/04	
Customer: Intermec Corporation				Temperature:	72F	
Attendees: None	Attendees: None Tested by: Greg Kiemel					
Customer Ref. No.: N/A		Power:	120 V, 60 Hz	Job Site:	EV06	
TEST SPECIFICATIONS						
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001	
SAMPLE CALCULATIONS						
COMMENTS						
The output of the RF detector diode is negative polarity						
EUT OPERATING MODES						
The transmission pulse duration is the same for all dat	a rates and transmit channels.					
DEVIATIONS FROM TEST STANDARD						
None						
REQUIREMENTS						
Public Notice DA 02-2138 allows averaging across the tran required to determine the method of measuring Peak Trans		it is longer than 30/B (wh	ere B = 26 dB emission	bandwidth of the signal	). The value of T is	
RESULTS		Value of T				
Pass		1.02 mS				
SIGNATURE		-				
Tostod By:						
DESCRIPTION OF TEST						
	Transmission P	ulse Duration	(T)			

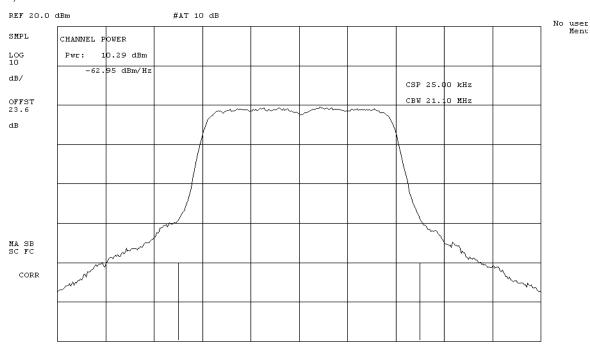


NORTHWEST	ENICOLONIO BATA OLIFET					
EMC	EMISSIONS	DATA SHEET		Rev BETA 01/30/01		
EUT: 802MIAG-CV60			Work Order:	ITRM0041		
Serial Number: 002-032			Date:	09/27/04		
Customer: Intermec Corporation			Temperature:	72F		
Attendees: None	Attendees: None Tested by: Greg Kiemel					
Customer Ref. No.: N/A	Job Site:	EV06				
TEST SPECIFICATIONS						
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63.	.4 Year:	2002, 2001		
SAMPLE CALCULATIONS						
EIRP (peak) = Peak Power + Maximum Antenna Gain						
Tested in CV60 Computer. The transmission pulse dura	tion (T) is 1.02 mS.					
EUT OPERATING MODES						
The transmission pulse duration is the same for all data	rates and transmit channels.					
DEVIATIONS FROM TEST STANDARD						
None						
REQUIREMENTS						
For the 5.15 - 5.25 GHz band, the peak transmit power sha	I not exceed the lesser of 50mW or 4	dBm + 10 log B, where B is the 26 dB emission ba	andwidth in MHz.			
If the antenna gain is greater than 6 dBi, the output must be	reduced by the amount in dB that th	e directional gain of the antenna exceeds 6 dBi.				
RESULTS						
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST		·				
	nut Power - Low Ch	annel - 5.15 to 5.25 GHz B	and			
reak Ou	put Fower - Low Ci	ailliei - 3.13 (0 3.23 GHZ B	aliu			

Tx Data Rate: 6 Mbit 26 dB Emissions Bandwidth (B): 21.1 MHz

Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5180.0	10.3	17.0	1.0	

17:50:35 SEP 27, 2004

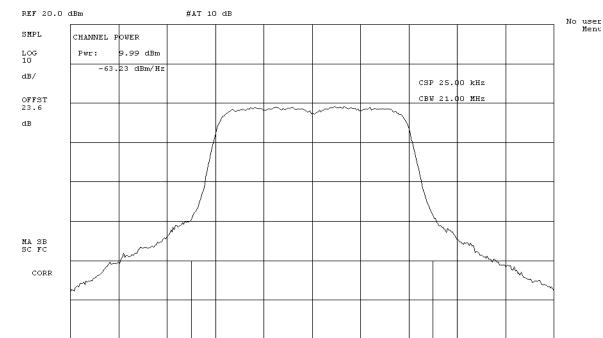


VORTHWEST  EMISSIONS DATA SHEET  REVUESTA							
EMC	EIVIIOSIUNO	DATA SHEET		Rev BETA 01/30/01			
EUT: 802MIAG-CV60 Work Order: ITRM0041							
Serial Number: 002-032			Dat	e: 09/27/04			
Customer: Intermec Corporation			Temperatur	e: 72F			
Attendees: None		Tested by: Greg Kiemel	Humidit	y: 38% RH			
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Sit	e: EV06			
TEST SPECIFICATIONS							
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI	C63.4 Yea	r: 2002, 2001			
SAMPLE CALCULATIONS							
EIRP (peak) = Peak Power + Maximum Antenna Gain							
Tested in CV60 Computer. The transmission pulse duratio	n (T) is 1.02 mS.						
EUT OPERATING MODES	(.)						
The transmission pulse duration is the same for all data ra	tes and transmit channels.						
DEVIATIONS FROM TEST STANDARD							
None							
REQUIREMENTS							
For the 5.15 - 5.25 GHz band, the peak transmit power shall no	ot exceed the lesser of 50mW or 4	dBm + 10 log B, where B is the 26 dB emission	n bandwidth in MHz.				
If the antenna gain is greater than 6 dBi, the output must be re-	duced by the amount in dB that th	e directional gain of the antenna exceeds 6 de	i.				
RESULTS							
Pass							
SIGNATURE							
Tested By:							
DESCRIPTION OF TEST							
	Peak Output Power - Mid Channel - 5.15 to 5.25 GHz Band						

Tx Data Rate: 6 Mbit 26 dB Emissions Bandwidth (B): 21.0 MHz

Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5200.0	10.0	17.0	1.0	

17:54:01 SEP 27, 2004



NORTHWEST EMISSIONS DATA SHEET REVERTA							
EMC	EINIOSIONS	DATA SHEET		Rev BETA 01/30/01			
EUT: 802MIAG-CV60 Work Order: ITRM0041							
Serial Number: 002-032			Date:	09/27/04			
Customer: Intermec Corporation			Temperature:	72F			
Attendees: None		Tested by: Greg Kiemel	Humidity:	38% RH			
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Site:	EV06			
TEST SPECIFICATIONS							
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63.	4 Year:	2002, 2001			
SAMPLE CALCULATIONS							
EIRP (peak) = Peak Power + Maximum Antenna Gain							
Tested in CV60 Computer. The transmission pulse dura	ation (T) is 1.02 mS						
EUT OPERATING MODES	(1) 10 1102 11101						
The transmission pulse duration is the same for all dat	a rates and transmit channels						
DEVIATIONS FROM TEST STANDARD							
None							
REQUIREMENTS							
For the 5.15 - 5.25 GHz band, the peak transmit power sha	Il not exceed the lesser of 50mW or 4	dBm + 10 log B, where B is the 26 dB emission ba	indwidth in MHz.				
If the antenna gain is greater than 6 dBi, the output must be							
RESULTS							
Pass							
SIGNATURE							
Tested By:							
DESCRIPTION OF TEST							
	nut Power - High C	hannel - 5.15 to 5.25 GHz B	and				
I eak ou	patrower - mgm o	110111101 - 0. 10 to 0.20 GHZ D	unu				

Tx Data Rate: 6 Mbit 26 dB Emissions Bandwidth (B): 20.95 MHz

Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5240.0	9.9	17.0	1.0	

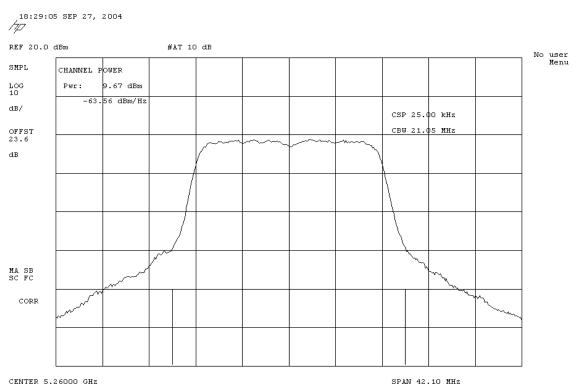
18:01:40 SEP 27, 2004 REF 20.0 dBm #AT 10 dB  ${\tt SMPL}$ CHANNEL POWER LOG 10 9.91 dBm Pwr: -63.30 dBm/Hz dB/ CSP 25.00 kHz OFFST 23.6 CBW 20.95 MHz dB MA SB SC FC CORR

No user Menu

NORTHWEST EMC	<b>EMISSIONS</b>	DATA SHEET		Rev BETA 01/30/01		
EUT: 802MIAG-CV60			Work Order			
Serial Number: 002-032			Date	09/27/04		
Customer: Intermec Corporation			Temperature:	72F		
Attendees: None		Tested by: Greg Kiemel	Humidity:	38% RH		
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Site:	EV06		
TEST SPECIFICATIONS						
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63	3.4 Year:	2002, 2001		
SAMPLE CALCULATIONS						
COMMENTS	uration /T\ in 4.02 mS					
Tested in CV60 Computer. The transmission pulse d	uration (1) is 1.02 mS.					
EUT OPERATING MODES The transmission pulse duration is the same for all c	lata rates and transmit channels					
DEVIATIONS FROM TEST STANDARD	data rates and transmit Chaimers.					
None						
REQUIREMENTS						
For the 5.25 - 5.35 GHz band, the peak transmit power s	shall not exceed the lesser of 250mW	or 11dBm + 10 log B, where B is the 26 dB emission	on bandwidth in MHz.			
If the antenna gain is greater than 6 dBi, the output mus						
RESULTS						
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST						
Peak Output Power - Low Channel - 5.25 to 5.35 GHz Band						

Tx Data Rate: 6 Mbit 26 dB Emissions Bandwidth (B): 21.05 MHz

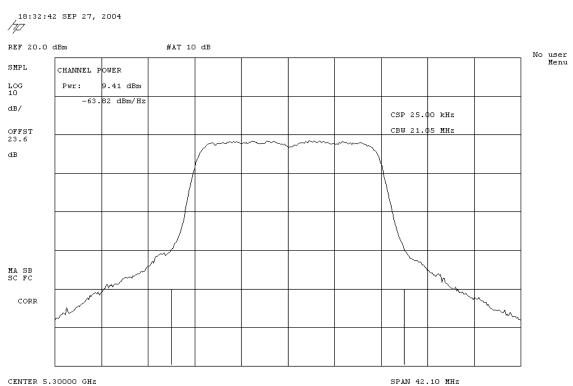
Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5260.0	9.7	24.0	1.0	



NORTHWEST EMC	<b>EMISSIONS</b>	DATA SHEET		Rev BETA 01/30/01		
EUT: 802MIAG-CV60			Work Order:			
Serial Number: 002-032			Date:	09/27/04		
Customer: Intermec Corporation			Temperature:	72F		
Attendees: None		Tested by: Greg Kiemel	Humidity:	38% RH		
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Site:	EV06		
TEST SPECIFICATIONS						
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63	.4 Year:	2002, 2001		
SAMPLE CALCULATIONS						
COMMENTS Tested in CV60 Computer. The transmission pulse d	luration (T) is 1 02 mS					
EUT OPERATING MODES	diation (1) is 1.02 ms.					
The transmission pulse duration is the same for all	data rates and transmit channels.					
DEVIATIONS FROM TEST STANDARD						
None						
REQUIREMENTS						
For the 5.25 - 5.35 GHz band, the peak transmit power:	shall not exceed the lesser of 250mW of	or 11dBm + 10 log B, where B is the 26 dB emission	on bandwidth in MHz.			
If the antenna gain is greater than 6 dBi, the output mus	t be reduced by the amount in dB that	the directional gain of the antenna exceeds 6 dBi.				
RESULTS						
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST						
Peak O	utput Power - Mid Ch	annel - 5.25 to 5.35 GHz Ba	and			

Tx Data Rate: 6 Mbit 26 dB Emissions Bandwidth (B): 21.05 MHz

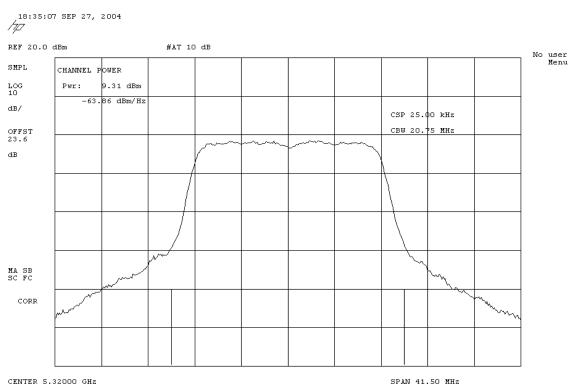
Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5300.0	9.4	24.0	1.0	



NORTHWEST EMC	<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01		
EUT: 1802MIAG-CV60 Work Order: ITRM0041							
Serial Number: 002-032				Date	: 09/27/04		
Customer: Intermec Corporation				Temperature	: 72F		
Attendees: None		Tested by:	Greg Kiemel	Humidity	: 38% RH		
Customer Ref. No.: N/A		Power:	120 V, 60 Hz	Job Site	: EV06		
TEST SPECIFICATIONS							
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	.4 Year	: 2002, 2001		
SAMPLE CALCULATIONS							
COMMENTS							
Tested in CV60 Computer. The transmission pulse du	ıration (T) is 1.02 mS.						
EUT OPERATING MODES							
The transmission pulse duration is the same for all d	ata rates and transmit channels.						
DEVIATIONS FROM TEST STANDARD None							
REQUIREMENTS							
For the 5.25 - 5.35 GHz band, the peak transmit power s	hall not exceed the lesser of 250mW o	r 11dRm + 10 log R when	a R is the 26 dR emission	n handwidth in MHz			
If the antenna gain is greater than 6 dBi, the output must				on banawidan in ivii iz.			
	be readed by the amount in ab that t	no un conorial gain or the	antonna executo e abi.				
RESULTS							
Pass							
SIGNATURE							
Tested By:							
DESCRIPTION OF TEST							
Peak Ou	tput Power - High Ch	nannel - 5.25 to	5.35 GHz Ba	and			

Tx Data Rate: 6 Mbit 26 dB Emissions Bandwidth (B): 20.75 MHz

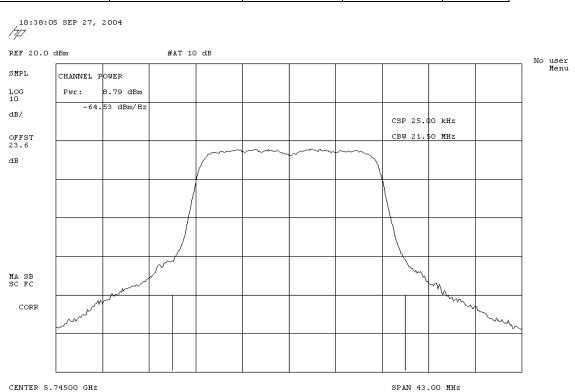
Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5320.0	9.3	24.0	1.0	



NORTHWEST EMC	<b>EMISSIONS</b>	DATA SHEET		Rev BETA 01/30/01		
EUT: 802MIAG-CV60			Work Order:			
Serial Number: 002-032			Date:	09/27/04		
Customer: Intermec Corporation			Temperature:	72F		
Attendees: None		Tested by: Greg Kiemel	Humidity:	38% RH		
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Site:	EV06		
TEST SPECIFICATIONS						
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63	.4 Year:	2002, 2001		
SAMPLE CALCULATIONS						
EIRP (peak) = Peak Power + Maximum Antenna Gain						
Tested in CV60 Computer. The transmission pulse d	uration (T) is 1.02 mS.					
EUT OPERATING MODES						
The transmission pulse duration is the same for all	data rates and transmit channels.					
DEVIATIONS FROM TEST STANDARD						
None						
REQUIREMENTS						
or the 5.725 - 5.825 GHz band, the peak transmit power			n bandwidth in MHz.			
f the antenna gain is greater than 6 dBi, the output mus	t be reduced by the amount in dB that	the directional gain of the antenna exceeds 6 dBi.				
RESULTS						
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST						
Peak Out	put Power - Low Cha	annel - 5.725 to 5.825 GHz E	Band			

Tx Data Rate: 6 Mbit 26 dB Emissions Bandwidth (B): 21.5 MHz

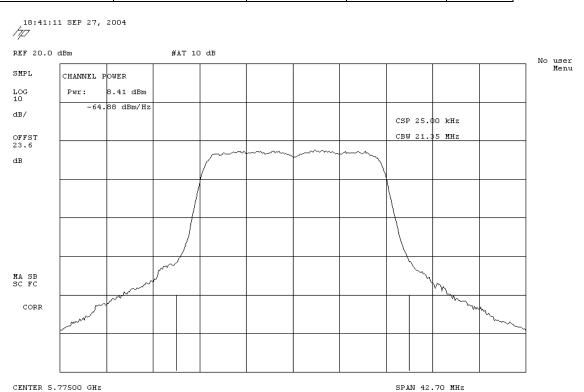
Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5745.0	8.8	30.0	1.0	



NORTHWEST EMC	<b>EMISSIONS</b>	DATA SHEET		Rev BETA 01/30/01			
EUT: 802MIAG-CV60			Work Order	ITRM0041			
Serial Number: 002-032	Serial Number: 002-032 Date: 09/27/0						
Customer: Intermec Corporation			Temperature:	72F			
Attendees: None		Tested by: Greg Kiemel	Humidity:	38% RH			
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Site:	EV06			
TEST SPECIFICATIONS							
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63	3.4 Year:	2002, 2001			
SAMPLE CALCULATIONS							
EIRP (peak) = Peak Power + Maximum Antenna Gain							
Tested in CV60 Computer. The transmission pulse d	uration (T) is 1.02 mS.						
EUT OPERATING MODES	, ,						
The transmission pulse duration is the same for all	lata rates and transmit channels.						
DEVIATIONS FROM TEST STANDARD							
None							
REQUIREMENTS							
For the 5.725 - 5.825 GHz band, the peak transmit power			n bandwidth in MHz.				
If the antenna gain is greater than 6 dBi, the output mus	be reduced by the amount in dB that	the directional gain of the antenna exceeds 6 dBi.					
RESULTS							
Pass							
SIGNATURE							
Tested By:							
DESCRIPTION OF TEST							
Peak Ou	Peak Output Power - Mid Channel - 5.725 to 5.825 GHz Band						

Tx Data Rate: 6 Mbit 26 dB Emissions Bandwidth (B): 21.35 MHz

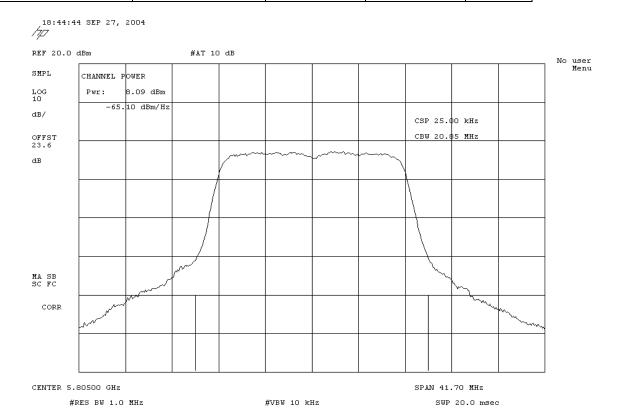
Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5775.0	8.4	30.0	1.0	



NORTHWEST EMC	<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01	
EUT: 802MIAG-CV60				Work Ord	er: ITRM0041	
Serial Number: 002-032 Date: 09/27/04						
Customer: Intermec Corporation Temperature: 72F						
Attendees: None		Tested by:	Greg Kiemel	Humidi	y: 38% RH	
Customer Ref. No.: N/A		Power:	120 V, 60 Hz	Job Sit	e: EV06	
TEST SPECIFICATIONS						
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	.4 Ye	ar: 2002, 2001	
EIRP (peak) = Peak Power + Maximum Antenna Gain						
COMMENTS						
Tested in CV60 Computer. The transmission pulse du	ration (T) is 1.02 mS.					
EUT OPERATING MODES						
The transmission pulse duration is the same for all da	ta rates and transmit channels.					
DEVIATIONS FROM TEST STANDARD						
None						
REQUIREMENTS For the 5.725 - 5.825 GHz band, the peak transmit power	aball and assessed the language of 4 M as	47dD : 40 la - Dh	Die the OO dD emission	handridth in MII-		
If the antenna gain is greater than 6 dBi, the output must				i bandwidth in MHZ.		
	be reduced by the amount in db that	the directional gain of the	antenna exceeds o dbi.			
RESULTS	<u> </u>	_				
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST						
Peak Outp	out Power - High Cha	annel - 5.725 t	o 5.825 GHz E	Band		

Tx Data Rate: 6 Mbit 26 dB Emissions Bandwidth (B): 20.85 MHz

Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5805.0	8.1	30.0	1.0	

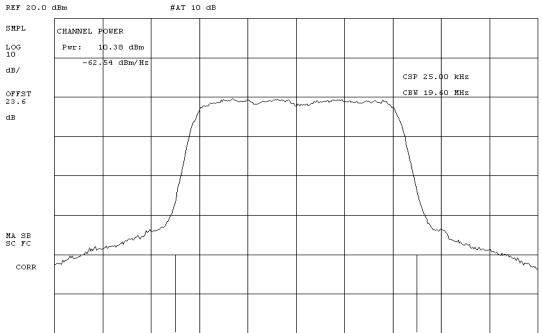


IORTHWEST EMISSIONS DATA SHEET REVEETA								
EMC	EMISSIONS	DATA SHEET		Rev BETA 01/30/01				
EUT: 802MIAG-CV60			Work Order:	ITRM0041				
Serial Number: 002-032			Date:	09/27/04				
Customer: Intermec Corporation	Customer: Intermec Corporation Temperature: 72F							
Attendees: None		Tested by: Greg Kiemel	Humidity:	38% RH				
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Site:	EV06				
TEST SPECIFICATIONS								
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63.	.4 Year:	2002, 2001				
SAMPLE CALCULATIONS								
EIRP (peak) = Peak Power + Maximum Antenna Gain								
Tested in CV60 Computer. The transmission pulse dura	tion (T) is 1.02 mS.							
EUT OPERATING MODES								
The transmission pulse duration is the same for all data	rates and transmit channels.							
DEVIATIONS FROM TEST STANDARD								
None								
REQUIREMENTS								
For the 5.15 - 5.25 GHz band, the peak transmit power sha	I not exceed the lesser of 50mW or 4	dBm + 10 log B, where B is the 26 dB emission ba	andwidth in MHz.					
If the antenna gain is greater than 6 dBi, the output must be	reduced by the amount in dB that th	e directional gain of the antenna exceeds 6 dBi.						
RESULTS								
Pass								
SIGNATURE								
Tested By:								
DESCRIPTION OF TEST								
	Peak Output Power - Low Channel - 5.15 to 5.25 GHz Band							
reak Ou	Peak Output Power - Low Chaillier - 3.15 to 3.25 GHz Baild							

Tx Data Rate: 36 Mbit 26 dB Emissions Bandwidth (B): 19.6 MHz

Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5180.0	10.4	16.9	1.0	

18:48:50 SEP 27, 2004



No user Menu

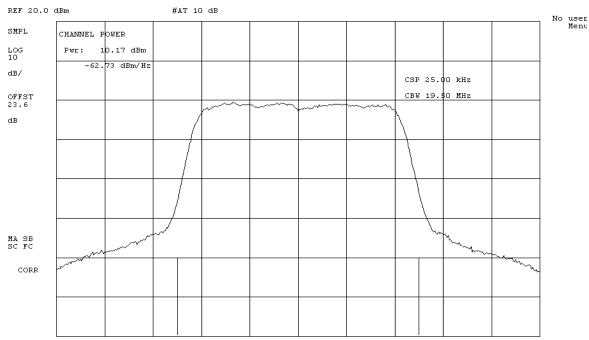
CENTER 5.18000 GHz SPAN 39.20 MHz #RES BW 1.0 MHz #VBW 10 kHz SWP 20.0 msec

NORTHWEST EMC	<b>EMISSIONS</b>	DATA SHEET		Rev BETA 01/30/01			
EUT: 802MIAG-CV60			Work Order:	ITRM0041			
Serial Number: 002-032				09/27/04			
Customer: Intermec Corporation	Customer: Intermec Corporation Temperature: 72F						
Attendees: None		Tested by: Greg Kiemel	Humidity:	38% RH			
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Site:	EV06			
TEST SPECIFICATIONS							
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63.	4 Year:	2002, 2001			
SAMPLE CALCULATIONS							
EIRP (peak) = Peak Power + Maximum Antenna Gain							
Tested in CV60 Computer. The transmission pulse dura	tion (T) is 1.02 mS.						
EUT OPERATING MODES							
The transmission pulse duration is the same for all dat	a rates and transmit channels.						
DEVIATIONS FROM TEST STANDARD							
None							
REQUIREMENTS							
For the 5.15 - 5.25 GHz band, the peak transmit power sha			andwidth in MHz.				
If the antenna gain is greater than 6 dBi, the output must be	reduced by the amount in dB that th	e directional gain of the antenna exceeds 6 dBi.					
RESULTS							
Pass							
SIGNATURE							
Tested By:							
DESCRIPTION OF TEST							
Peak Ou	Peak Output Power - Mid Channel - 5.15 to 5.25 GHz Band						

Tx Data Rate: 36 Mbit 26 dB Emissions Bandwidth (B): 19.5 MHz

Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5200.0	10.2	16.9	1.0	

18:52:45 SEP 27, 2004



CENTER 5.20000 GHz SPAN 39.00 MHz #RES BW 1.0 MHz #VBW 10 kHz SWP 20.0 msec

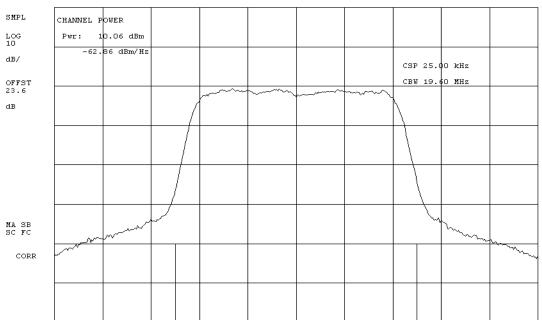
IORTHWEST EMISSIONS DATA SHEET REVERTA								
EMC	EINIOSIONS	DATA SHEET		Rev BETA 01/30/01				
EUT: 802MIAG-CV60			Work Order:	ITRM0041				
Serial Number: 002-032 Date: 09/27/04								
Customer: Intermec Corporation	Customer: Intermec Corporation Temperature: 72F							
Attendees: None Tested by: Greg Kiemel Humidity: 38% RH								
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Site:	EV06				
TEST SPECIFICATIONS								
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63.	4 Year:	2002, 2001				
SAMPLE CALCULATIONS								
EIRP (peak) = Peak Power + Maximum Antenna Gain								
Tested in CV60 Computer. The transmission pulse dura	ation (T) is 1.02 mS							
EUT OPERATING MODES	(1) 10 1102 1110.							
The transmission pulse duration is the same for all dat	a rates and transmit channels							
DEVIATIONS FROM TEST STANDARD								
None								
REQUIREMENTS								
For the 5.15 - 5.25 GHz band, the peak transmit power sha	Il not exceed the lesser of 50mW or 4	dBm + 10 log B, where B is the 26 dB emission ba	indwidth in MHz.					
If the antenna gain is greater than 6 dBi, the output must be								
RESULTS								
Pass								
SIGNATURE								
Tested By:								
DESCRIPTION OF TEST								
	Peak Output Power - High Channel - 5.15 to 5.25 GHz Band							
I eak ou	1 cak Gatpat 1 ower - mgn Ghaimer - 0.10 to 0.20 GHz Band							

Tx Data Rate: 36 Mbit 26 dB Emissions Bandwidth (B): 19.6 MHz

Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5240.0	10.1	16.9	1.0	11.1

18:54:57 SEP 27, 2004
/IF

REF 20.0 dBm #AT 10 dB

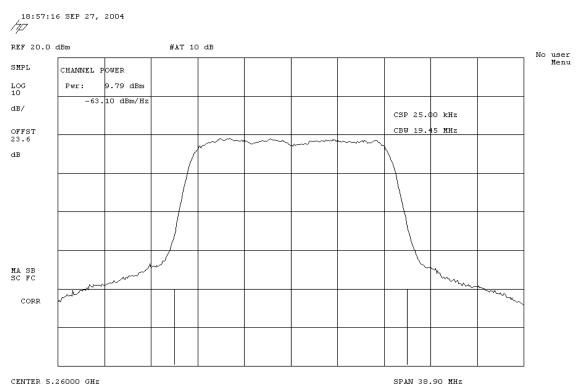


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NORTHWEST EMC	<b>EMISSIONS</b>	DATA SHEET		Rev BETA 01/30/01		
EUT: 802MIAG-CV60			Work Order			
Serial Number: 002-032			Date	09/27/04		
Customer: Intermec Corporation Temperature: 7						
Attendees: None		Tested by: Greg Kiemel	Humidity:	38% RH		
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Site:	EV06		
TEST SPECIFICATIONS						
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63	3.4 Year:	2002, 2001		
SAMPLE CALCULATIONS						
COMMENTS	uration /T\ in 4.02 mS					
Tested in CV60 Computer. The transmission pulse d	uration (1) is 1.02 mS.					
EUT OPERATING MODES The transmission pulse duration is the same for all c	lata rates and transmit channels					
DEVIATIONS FROM TEST STANDARD	data rates and transmit Chaimers.					
None						
REQUIREMENTS						
For the 5.25 - 5.35 GHz band, the peak transmit power s	shall not exceed the lesser of 250mW	or 11dBm + 10 log B, where B is the 26 dB emission	on bandwidth in MHz.			
If the antenna gain is greater than 6 dBi, the output mus						
RESULTS						
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST						
Peak Output Power - Low Channel - 5.25 to 5.35 GHz Band						

Tx Data Rate: 36 Mbit 26 dB Emissions Bandwidth (B): 19.45 MHz

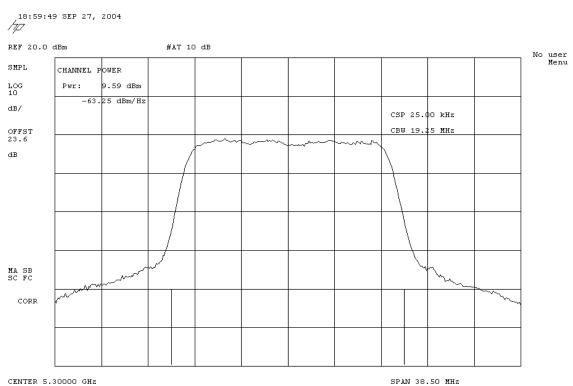
Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5260.0	9.8	23.9	1.0	



NORTHWEST EMC	<b>EMISSIONS</b>	DATA SHEET		Rev BETA 01/30/01
EUT: 802MIAG-CV60			Work Order:	
Serial Number: 002-032			Date:	09/27/04
Customer: Intermec Corporation			Temperature:	72F
Attendees: None		Tested by: Greg Kiemel	Humidity:	38% RH
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATIONS				
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63	.4 Year:	2002, 2001
SAMPLE CALCULATIONS				
COMMENTS Tested in CV60 Computer. The transmission pulse d	luration (T) is 1 02 mS			
EUT OPERATING MODES	diation (1) is 1.02 ms.			
The transmission pulse duration is the same for all	data rates and transmit channels.			
DEVIATIONS FROM TEST STANDARD				
None				
REQUIREMENTS				
For the 5.25 - 5.35 GHz band, the peak transmit power:	shall not exceed the lesser of 250mW of	or 11dBm + 10 log B, where B is the 26 dB emission	on bandwidth in MHz.	
If the antenna gain is greater than 6 dBi, the output mus	t be reduced by the amount in dB that	the directional gain of the antenna exceeds 6 dBi.		
RESULTS				
Pass				
SIGNATURE				
Tested By:				
DESCRIPTION OF TEST				
Peak O	utput Power - Mid Ch	annel - 5.25 to 5.35 GHz Ba	and	

Tx Data Rate: 36 Mbit 26 dB Emissions Bandwidth (B): 19.25 MHz

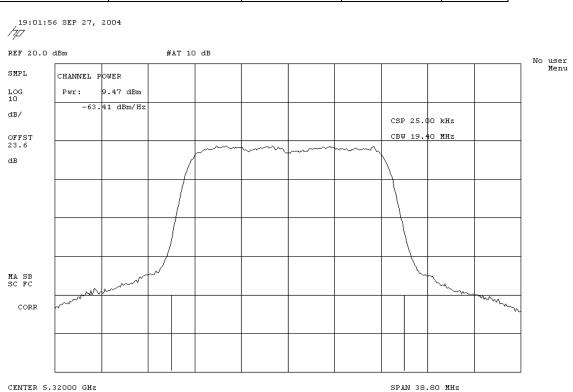
Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5300.0	9.6	23.8	1.0	



NORTHWEST EMC	<b>EMISSIONS</b>	DATA SHEET		Rev BETA 01/30/01
EUT: 802MIAG-CV60			Work Order	
Serial Number: 002-032			Date	09/27/04
Customer: Intermec Corporation			Temperature	72F
Attendees: None		Tested by: Greg Kiemel	Humidity	38% RH
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATIONS				
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63	3.4 Year	2002, 2001
SAMPLE CALCULATIONS				
COMMENTS Tested in CV60 Computer. The transmission pulse of	Juration (T) is 1.02 mS			
EUT OPERATING MODES	iuration (1) is 1.02 ms.			
The transmission pulse duration is the same for all	data rates and transmit channels			
DEVIATIONS FROM TEST STANDARD	data rates and transmit chamiers.			
None				
REQUIREMENTS				
For the 5.25 - 5.35 GHz band, the peak transmit power	shall not exceed the lesser of 250mW	or 11dBm + 10 log B, where B is the 26 dB emission	on bandwidth in MHz.	
If the antenna gain is greater than 6 dBi, the output mus	t be reduced by the amount in dB that	the directional gain of the antenna exceeds 6 dBi.		
RESULTS				
Pass				
SIGNATURE				
Tested By:				
DESCRIPTION OF TEST	•	·		
Peak Ou	ıtput Power - High C	hannel - 5.25 to 5.35 GHz B	and	

Tx Data Rate: 36 Mbit 26 dB Emissions Bandwidth (B): 19.4 MHz

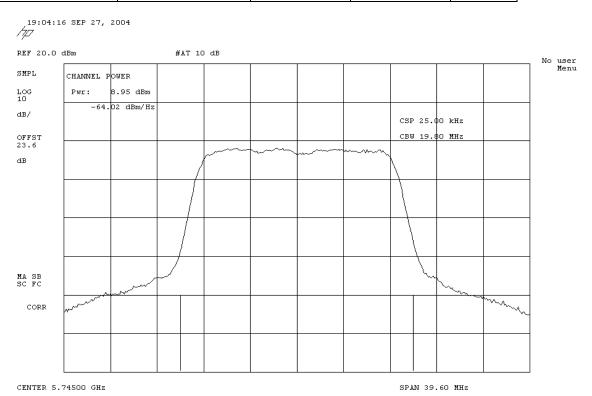
Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5320.0	9.5	23.9	1.0	



NORTHWEST EMC	<b>EMISSIONS</b>	DATA SHEET		Rev BETA 01/30/01
EUT: 802MIAG-CV60			Work Order:	
Serial Number: 002-032			Date:	09/27/04
Customer: Intermec Corporation			Temperature:	72F
Attendees: None		Tested by: Greg Kiemel	Humidity:	38% RH
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATIONS				
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63	.4 Year:	2002, 2001
SAMPLE CALCULATIONS				
EIRP (peak) = Peak Power + Maximum Antenna Gain				
Tested in CV60 Computer. The transmission pulse d	uration (T) is 1.02 mS.			
EUT OPERATING MODES				
The transmission pulse duration is the same for all	data rates and transmit channels.			
DEVIATIONS FROM TEST STANDARD				
None				
REQUIREMENTS				
or the 5.725 - 5.825 GHz band, the peak transmit power			n bandwidth in MHz.	
f the antenna gain is greater than 6 dBi, the output mus	t be reduced by the amount in dB that	the directional gain of the antenna exceeds 6 dBi.		
RESULTS				
Pass				
SIGNATURE				
Tosted By:				
DESCRIPTION OF TEST				
Peak Out	put Power - Low Cha	annel - 5.725 to 5.825 GHz E	Band	

Tx Data Rate: 36 Mbit 26 dB Emissions Bandwidth (B): 19.8 MHz

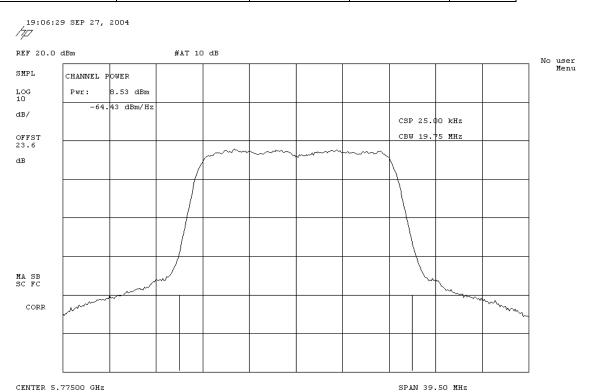
Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5745.0	9.0	30.0	1.0	



NORTHWEST EMC	<b>EMISSIONS</b>	DATA SHEET		Rev BETA 01/30/01
EUT: 802MIAG-CV60			Work Order	ITRM0041
Serial Number: 002-032			Date:	09/27/04
Customer: Intermec Corporation			Temperature:	72F
Attendees: None		Tested by: Greg Kiemel	Humidity:	38% RH
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATIONS				
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63	3.4 Year:	2002, 2001
SAMPLE CALCULATIONS				
EIRP (peak) = Peak Power + Maximum Antenna Gain				
Tested in CV60 Computer. The transmission pulse d	uration (T) is 1.02 mS.			
EUT OPERATING MODES	, ,			
The transmission pulse duration is the same for all	lata rates and transmit channels.			
DEVIATIONS FROM TEST STANDARD				
None				
REQUIREMENTS				
For the 5.725 - 5.825 GHz band, the peak transmit power			n bandwidth in MHz.	
If the antenna gain is greater than 6 dBi, the output mus	be reduced by the amount in dB that	the directional gain of the antenna exceeds 6 dBi.		
RESULTS				
Pass				
SIGNATURE				
Tested By:				
DESCRIPTION OF TEST				
Peak Ou	tput Power - Mid Cha	nnel - 5.725 to 5.825 GHz E	Band	

Tx Data Rate: 36 Mbit 26 dB Emissions Bandwidth (B): 19.75 MHz

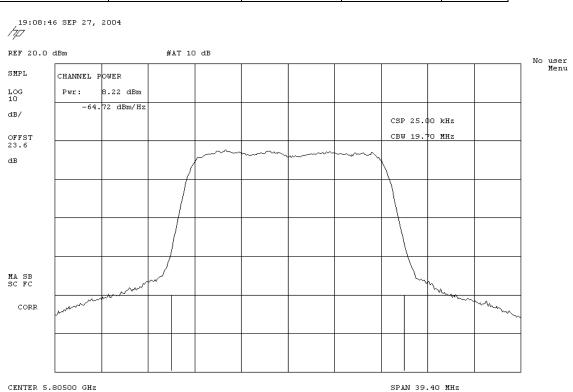
	Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
	(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
Ī	5775.0	8.5	30.0	1.0	9.5



NORTHWEST EMC	<b>EMISSIONS</b>	DATA SHEET		Rev BETA 01/30/01		
EUT: 802MIAG-CV60			Work Order:	ITRM0041		
Serial Number: 002-032			Date:	09/27/04		
Customer: Intermec Corporation			Temperature:	72F		
Attendees: None		Tested by: Greg Kiemel	Humidity:	38% RH		
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Site:	EV06		
TEST SPECIFICATIONS						
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63	.4 Year:	2002, 2001		
SAMPLE CALCULATIONS						
COMMENTS						
Tested in CV60 Computer. The transmission pulse d	uration (T) is 1.02 mS.					
EUT OPERATING MODES	1-tt t					
The transmission pulse duration is the same for all on the same for all of the same fo	ata rates and transmit channels.					
None						
REQUIREMENTS						
For the 5.725 - 5.825 GHz band, the peak transmit power	er shall not exceed the lesser of 1 W or	17dRm + 10 log B, where B is the 26 dB emission	handwidth in MHz			
If the antenna gain is greater than 6 dBi, the output mus			r banawatir iir iiir iz.			
RESULTS		<u> </u>				
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST				_		
Peak Output Power - High Channel - 5.725 to 5.825 GHz Band						

Tx Data Rate: 36 Mbit 26 dB Emissions Bandwidth (B): 19.7 MHz

Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5805.0	8.2	29.9	1.0	

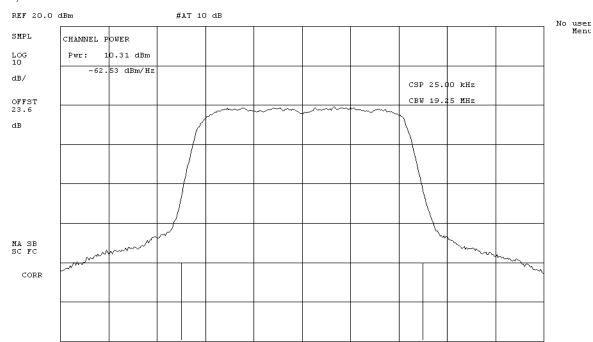


NORTHWEST EMC	<b>EMISSIONS</b>	DATA SHEET		Rev BETA 01/30/01		
EUT: 802MIAG-CV60			Work Order:	ITRM0041		
Serial Number: 002-032			Date:	09/27/04		
Customer: Intermec Corporation			Temperature:	72F		
Attendees: None		Tested by: Greg Kiemel	Humidity:	38% RH		
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Site:	EV06		
TEST SPECIFICATIONS						
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63.	.4 Year:	2002, 2001		
SAMPLE CALCULATIONS						
EIRP (peak) = Peak Power + Maximum Antenna Gain COMMENTS						
Tested in CV60 Computer. The transmission pulse dura	tion (T) is 1.02 mS.					
EUT OPERATING MODES						
The transmission pulse duration is the same for all dat	a rates and transmit channels.					
DEVIATIONS FROM TEST STANDARD						
None						
REQUIREMENTS						
For the 5.15 - 5.25 GHz band, the peak transmit power sha			andwidth in MHz.			
If the antenna gain is greater than 6 dBi, the output must be	reduced by the amount in dB that th	e directional gain of the antenna exceeds 6 dBi.				
RESULTS						
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST						
Peak Output Power - Low Channel - 5.15 to 5.25 GHz Band						

Tx Data Rate: 54 Mbit 26 dB Emissions Bandwidth (B): 19.25 MHz

Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5180.0	10.3	16.8	1.0	

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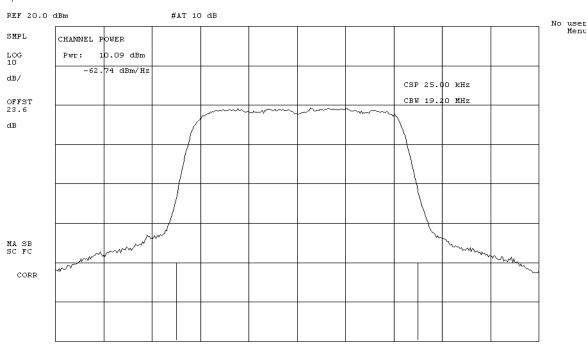


NORTHWEST EMC	<b>EMISSIONS</b>	DATA SHEET		Rev BETA 01/30/01			
EUT: 802MIAG-CV60			Work Order:	ITRM0041			
Serial Number: 002-032				09/27/04			
Customer: Intermec Corporation	Customer: Intermec Corporation Temperature: 72F						
Attendees: None		Tested by: Greg Kiemel	Humidity:	38% RH			
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Site:	EV06			
TEST SPECIFICATIONS							
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63.	4 Year:	2002, 2001			
SAMPLE CALCULATIONS							
EIRP (peak) = Peak Power + Maximum Antenna Gain							
Tested in CV60 Computer. The transmission pulse dura	tion (T) is 1.02 mS.						
EUT OPERATING MODES							
The transmission pulse duration is the same for all dat	a rates and transmit channels.						
DEVIATIONS FROM TEST STANDARD							
None							
REQUIREMENTS							
For the 5.15 - 5.25 GHz band, the peak transmit power sha			andwidth in MHz.				
If the antenna gain is greater than 6 dBi, the output must be	reduced by the amount in dB that th	e directional gain of the antenna exceeds 6 dBi.					
RESULTS							
Pass							
SIGNATURE							
Tested By:							
DESCRIPTION OF TEST							
Peak Ou	Peak Output Power - Mid Channel - 5.15 to 5.25 GHz Band						

Tx Data Rate: 54 Mbit 26 dB Emissions Bandwidth (B): 19.2 MHz

Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5200.0	10.1	16.8	1.0	

19:14:08 SEP 27, 2004



CENTER 5.20000 GHz SPAN 38.40 MHz #RES BW 1.0 MHz #VBW 10 kHz SWP 20.0 msec

NORTHWEST EMISSIONS DATA SHEET REVERTA						
EMC	EINIOSIONS	DATA SHEET		Rev BETA 01/30/01		
EUT: 802MIAG-CV60			Work Order:	ITRM0041		
Serial Number: 002-032			Date:	09/27/04		
Customer: Intermec Corporation			Temperature:	72F		
Attendees: None		Tested by: Greg Kiemel	Humidity:	38% RH		
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Site:	EV06		
TEST SPECIFICATIONS						
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63.	4 Year:	2002, 2001		
SAMPLE CALCULATIONS						
EIRP (peak) = Peak Power + Maximum Antenna Gain						
Tested in CV60 Computer. The transmission pulse dura	ation (T) is 1.02 mS					
EUT OPERATING MODES	(1) 10 1102 1110.					
The transmission pulse duration is the same for all dat	a rates and transmit channels					
DEVIATIONS FROM TEST STANDARD						
None						
REQUIREMENTS						
For the 5.15 - 5.25 GHz band, the peak transmit power sha	Il not exceed the lesser of 50mW or 4	dBm + 10 log B, where B is the 26 dB emission ba	indwidth in MHz.			
If the antenna gain is greater than 6 dBi, the output must be						
RESULTS						
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST						
	nut Power - High C	hannel - 5.15 to 5.25 GHz B	and			
I eak ou	patrower - mgm o	110111101 - 0. 10 to 0.20 GHZ D	unu			

Tx Data Rate: 54 Mbit 26 dB Emissions Bandwidth (B): 19.25 MHz

	Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
	(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
ſ	5240.0	9 9	16.8	1.0	10.9

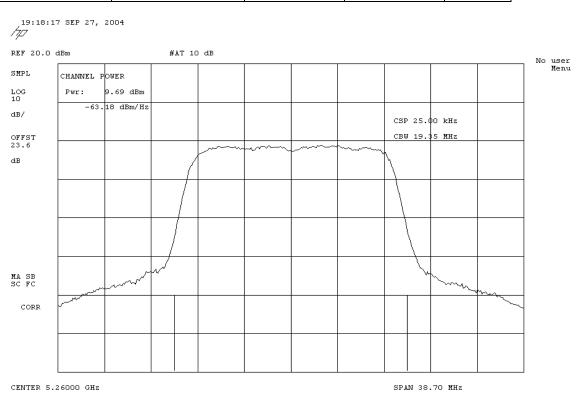
19:16:11 SEP 27, 2004 REF 20.0 dBm #AT 10 dB  ${\tt SMPL}$ CHANNEL POWER LOG 10 9.91 dBm Pwr: -62.93 dBm/Hz dB/ CSP 25.00 kHz OFFST 23.6 CBW 19.25 MHz dB MA SB SC FC CORR

No user Menu

NORTHWEST EMC	<b>EMISSIONS</b>	DATA SHEET		Rev BETA 01/30/01		
EUT: 802MIAG-CV60			Work Order			
Serial Number: 002-032			Date	09/27/04		
Customer: Intermec Corporation			Temperature:	72F		
Attendees: None		Tested by: Greg Kiemel	Humidity:	38% RH		
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Site:	EV06		
TEST SPECIFICATIONS						
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63	3.4 Year:	2002, 2001		
SAMPLE CALCULATIONS						
COMMENTS	uration /T\ in 4.02 mS					
Tested in CV60 Computer. The transmission pulse d	uration (1) is 1.02 mS.					
EUT OPERATING MODES The transmission pulse duration is the same for all c	lata rates and transmit channels					
DEVIATIONS FROM TEST STANDARD	data rates and transmit Chaimers.					
None						
REQUIREMENTS						
For the 5.25 - 5.35 GHz band, the peak transmit power s	shall not exceed the lesser of 250mW	or 11dBm + 10 log B, where B is the 26 dB emission	on bandwidth in MHz.			
If the antenna gain is greater than 6 dBi, the output mus						
RESULTS						
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST						
Peak Output Power - Low Channel - 5.25 to 5.35 GHz Band						

Tx Data Rate: 54 Mbit 26 dB Emissions Bandwidth (B): 19.35 MHz

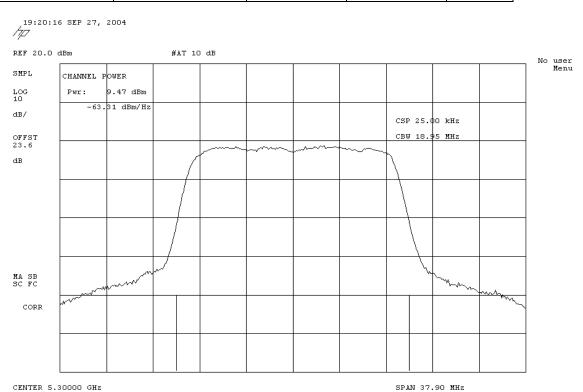
Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5260.0	9.7	23.9	1.0	



NORTHWEST EMC	<b>EMISSIONS</b>	DATA SHEET		Rev BETA 01/30/01		
EUT: 802MIAG-CV60			Work Order:			
Serial Number: 002-032			Date:	09/27/04		
Customer: Intermec Corporation			Temperature:	72F		
Attendees: None		Tested by: Greg Kiemel	Humidity:	38% RH		
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Site:	EV06		
TEST SPECIFICATIONS						
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63	.4 Year:	2002, 2001		
SAMPLE CALCULATIONS						
COMMENTS Tested in CV60 Computer. The transmission pulse d	luration (T) is 1 02 mS					
EUT OPERATING MODES	diation (1) is 1.02 ms.					
The transmission pulse duration is the same for all	data rates and transmit channels.					
DEVIATIONS FROM TEST STANDARD						
None						
REQUIREMENTS						
For the 5.25 - 5.35 GHz band, the peak transmit power:	shall not exceed the lesser of 250mW of	or 11dBm + 10 log B, where B is the 26 dB emission	on bandwidth in MHz.			
If the antenna gain is greater than 6 dBi, the output mus	t be reduced by the amount in dB that	the directional gain of the antenna exceeds 6 dBi.				
RESULTS						
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST						
Peak O	utput Power - Mid Ch	annel - 5.25 to 5.35 GHz Ba	and			

Tx Data Rate: 54 Mbit 26 dB Emissions Bandwidth (B): 18.95 MHz

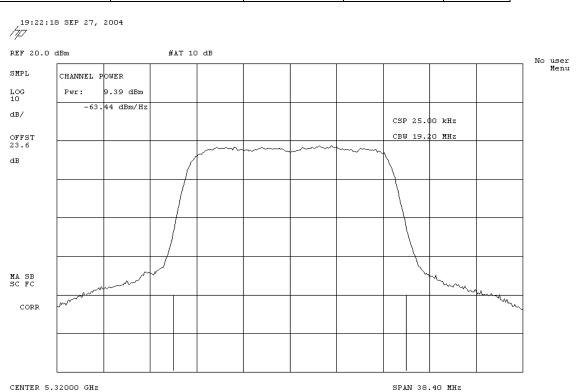
Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5300.0	9.5	23.8	1.0	



NORTHWEST EMC	<b>EMISSIONS</b>	DATA SHEET		Rev BETA 01/30/01		
EUT: 802MIAG-CV60			Work Order			
Serial Number: 002-032			Date	09/27/04		
Customer: Intermec Corporation			Temperature	72F		
Attendees: None		Tested by: Greg Kiemel	Humidity	38% RH		
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Site:	EV06		
TEST SPECIFICATIONS						
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63	3.4 Year	2002, 2001		
SAMPLE CALCULATIONS						
COMMENTS Tested in CV60 Computer. The transmission pulse of	Juration (T) is 1.02 mS					
EUT OPERATING MODES	iuration (1) is 1.02 ms.					
The transmission pulse duration is the same for all	data rates and transmit channels					
DEVIATIONS FROM TEST STANDARD	data rates and transmit chamiers.					
None						
REQUIREMENTS						
For the 5.25 - 5.35 GHz band, the peak transmit power	shall not exceed the lesser of 250mW	or 11dBm + 10 log B, where B is the 26 dB emission	on bandwidth in MHz.			
If the antenna gain is greater than 6 dBi, the output mus	t be reduced by the amount in dB that	the directional gain of the antenna exceeds 6 dBi.				
RESULTS						
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST	•	·				
Peak Ou	ıtput Power - High C	hannel - 5.25 to 5.35 GHz B	and			

Tx Data Rate: 54 Mbit 26 dB Emissions Bandwidth (B): 19.2 MHz

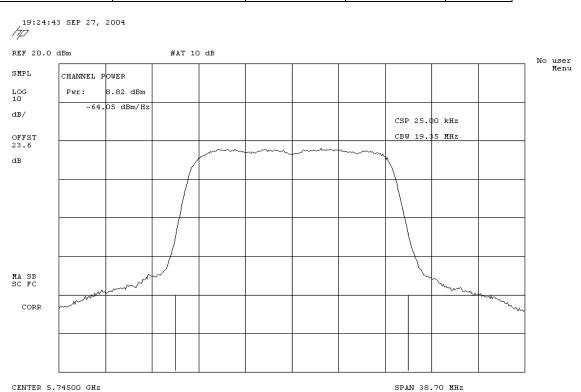
Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5320.0	9.4	23.8	1.0	



NORTHWEST EMC	<b>EMISSIONS</b>	DATA SHEET		Rev BETA 01/30/01		
EUT: 802MIAG-CV60			Work Order:			
Serial Number: 002-032			Date:	09/27/04		
Customer: Intermec Corporation			Temperature:	72F		
Attendees: None		Tested by: Greg Kiemel	Humidity:	38% RH		
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Site:	EV06		
TEST SPECIFICATIONS						
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63	.4 Year:	2002, 2001		
SAMPLE CALCULATIONS						
EIRP (peak) = Peak Power + Maximum Antenna Gain						
Tested in CV60 Computer. The transmission pulse d	uration (T) is 1.02 mS.					
EUT OPERATING MODES						
The transmission pulse duration is the same for all	data rates and transmit channels.					
DEVIATIONS FROM TEST STANDARD						
None						
REQUIREMENTS						
or the 5.725 - 5.825 GHz band, the peak transmit power			n bandwidth in MHz.			
f the antenna gain is greater than 6 dBi, the output mus	t be reduced by the amount in dB that	the directional gain of the antenna exceeds 6 dBi.				
RESULTS						
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST						
Peak Out	put Power - Low Cha	annel - 5.725 to 5.825 GHz E	Band			

Tx Data Rate: 54 Mbit 26 dB Emissions Bandwidth (B): 19.35 MHz

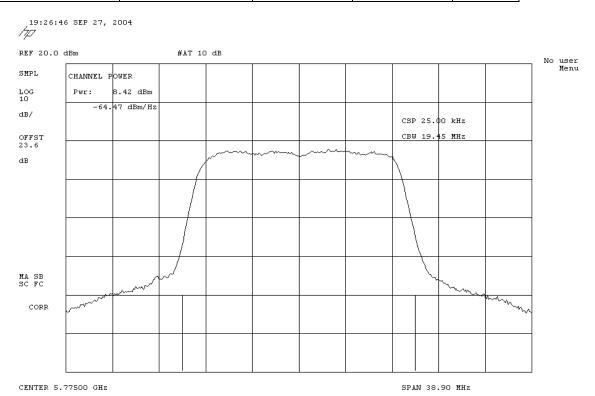
	Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
	(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
Ī	5745.0	8.8	29.9	1.0	9.8



NORTHWEST EMC	<b>EMISSIONS</b>	DATA SHEET		Rev BETA 01/30/01			
EUT: 802MIAG-CV60			Work Order				
Serial Number: 002-032			Date:	09/27/04			
Customer: Intermec Corporation			Temperature:	72F			
Attendees: None		Tested by: Greg Kiemel	Humidity:	38% RH			
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Site:	EV06			
TEST SPECIFICATIONS							
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63	3.4 Year:	2002, 2001			
SAMPLE CALCULATIONS							
EIRP (peak) = Peak Power + Maximum Antenna Gain							
Tested in CV60 Computer. The transmission pulse d	uration (T) is 1.02 mS.						
EUT OPERATING MODES							
The transmission pulse duration is the same for all data rates and transmit channels.							
DEVIATIONS FROM TEST STANDARD							
None							
REQUIREMENTS							
For the 5.725 - 5.825 GHz band, the peak transmit power			n bandwidth in MHz.				
If the antenna gain is greater than 6 dBi, the output mus	be reduced by the amount in dB that	the directional gain of the antenna exceeds 6 dBi.					
RESULTS							
Pass							
SIGNATURE							
Tested By:							
DESCRIPTION OF TEST							
Peak Ou	tput Power - Mid Cha	nnel - 5.725 to 5.825 GHz E	Band				

Tx Data Rate: 54 Mbit 26 dB Emissions Bandwidth (B): 19.45 MHz

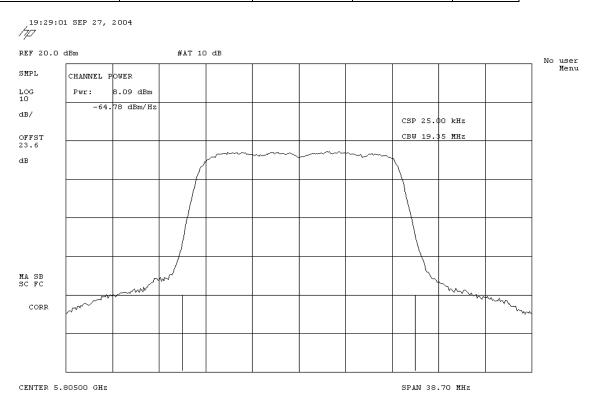
Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5775.0	8.4	29.9	1.0	

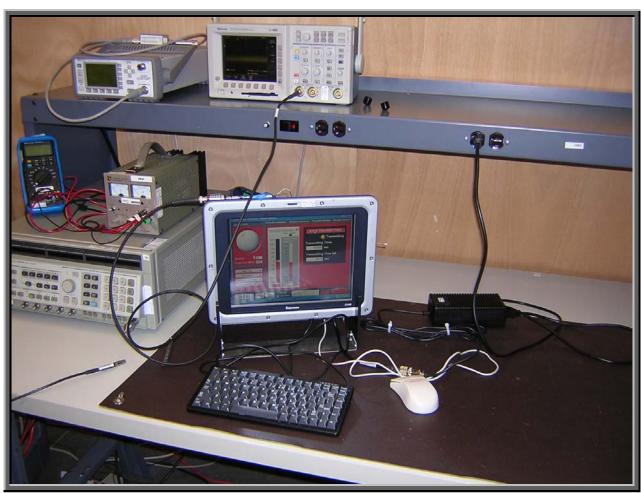


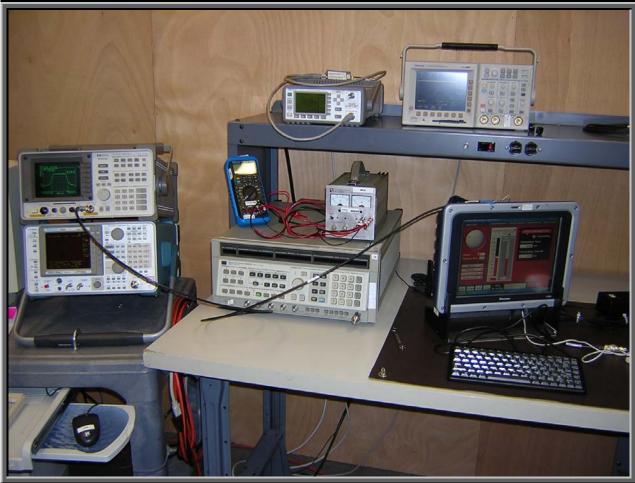
NORTHWEST EMC	<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01	
EUT: 802MIAG-CV60				Work Ord	er: ITRM0041	
Serial Number: 002-032				Dat	e: 09/27/04	
Customer: Intermec Corporation				Temperatui	e: 72F	
Attendees: None		Tested by:	Greg Kiemel	Humidi	y: 38% RH	
Customer Ref. No.: N/A		Power:	120 V, 60 Hz	Job Sit	e: EV06	
TEST SPECIFICATIONS						
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	.4 Ye	ar: 2002, 2001	
EIRP (peak) = Peak Power + Maximum Antenna Gain						
COMMENTS						
Tested in CV60 Computer. The transmission pulse duration (T) is 1.02 mS.						
EUT OPERATING MODES						
The transmission pulse duration is the same for all data rates and transmit channels.						
DEVIATIONS FROM TEST STANDARD						
None						
REQUIREMENTS For the 5.725 - 5.825 GHz band, the peak transmit power	aball and assessed the language of 4 M as	47dD : 40 la - Dh	Die the OO dD emission	handridth in MII-		
If the antenna gain is greater than 6 dBi, the output must				i bandwidth in MHZ.		
	be reduced by the amount in db that	the directional gain of the	antenna exceeds o dbi.			
RESULTS	<u> </u>	_				
Pass						
SIGNATURE						
Tested By:						
DESCRIPTION OF TEST						
Peak Outp	out Power - High Cha	annel - 5.725 t	o 5.825 GHz E	Band		

Tx Data Rate: 54 Mbit 26 dB Emissions Bandwidth (B): 19.35 MHz

Frequency	Peak Output Power	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5805.0	8.1	29.9	1.0	







# **Power Spectral Density**

Revision 10/1/03

## **Justification**

The individuals and/or the organization requesting the test provided the modes, configurations and settings available to evaluate. While scanning the radiated emissions, all of the EUT parameters listed below were investigated. This includes, but may not be limited to, antennas, tuned transmit frequency ranges, operating modes, and data rates.

Channels in Specified Band Investigated:
Ch 36 (5180 MHz)
Ch 40 (5200 MHz)
Ch 48 (5240 MHz)
Ch 52 (5260 MHz)
Ch 60 (5300 MHz)
Ch 64 (5320 MHz)
Ch 149 (5745 MHz)
Ch 155 (5775 MHz)
Ch 161 (5805 MHz)

## **Operating Modes Investigated:**

Typical

Data Rates Investigated:
6 Mbit
36 Mbit
54 Mbit

## **Output Power Setting(s) Investigated:**

Maximum default

## **Power Input Settings Investigated:**

120 VAC, 60 Hz.

Software\Firmware Applied During Test							
Exercise software	cTxRx	Version	2.3.0.0				
Description							
l <del></del>							

The system was tested using special software developed to test all functions of the device during the test including transmit channel, mode, data rate, and output power.

EUT and Peripherals			
Description	Manufacturer	Model/Part Number	Serial Number
EUT- 802.11(a)/(b)/(g) radio	Intermec	802MIAG-CV60	002-032
Host PC	Intermec Technologies Corporation	CV60	23100400645
USB Mouse	Belkin	F8E201-USB	211006039
Keyboard	Cherry	hL4186	C000435J50
Power Supply	Kynet	SNP-PA57	5228227

# **Power Spectral Density**

Revision 10/1/03

Cables							
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2		
USB	Yes	1.1	No	Host PC	USB Mouse		
Keyboard	PA	1.5	PA	Host PC	Keyboard		
DC Leads	PA	1.0	PA	Host PC	Power Supply		
AC Power	No	2.0	No	Power Supply	AC Mains		
PA = Cable is perm	nanently attac	hed to the device.	Shielding and	d/or presence of ferrite	e may be unknown.		

Measurement Equipment						
Description	Manufacturer	Model	Identifier	Last Cal	Interval	
Spectrum Analyzer	Tektronix	2784	AAO	02/26/2003	24 mo	
Signal Generator	Hewlett Packard	8341B	TGN	01/23/2004	13 mo	
Power Meter	Hewlett Packard	E4418A	SPA	07/23/2004	24 mo	
Power Sensor	Hewlett-Packard	8481H	SPB	07/23/2004	24 mo	

## **Test Description**

**Requirements:** Per 15.403(d), "...The peak power spectral density is the maximum power spectral density, within the specified measurement bandwidth, within the U-NII device operating band."

Per 15.407(a)(5), "...Measurements are made over a bandwidth of 1 MHz or the 26 dB emission bandwidth of the device, whichever is less."

Per 15.403(a), the peak power spectral density limits are:

- (1) For the band 5.15-5.25 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 50 mW or 4 dBm + 10log B, where B is the 26-dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 4 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (2) For the band 5.25-5.35 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 250 mW or 11 dBm + 10log B, where B is the 26-dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- (3) For the band 5.725-5.825 GHz, the peak transmit power over the frequency band of operation shall not exceed the lesser of 1 W or 17 dBm + 10log B, where B is the 26-dB emission bandwidth in MHz. In addition, the peak power spectral density shall not exceed 17 dBm in any 1-MHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

## **Power Spectral Density**

Revision 10/1/03

**Configuration:** FCC Public Notice DA 02-2138 was followed. The transmit frequency was set to the lowest, a medium, and the highest channels in each band. The transmit power was set to its default maximum. The lowest, a medium, and the highest data rates were measured. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input. The amplitude accuracy of the spectrum analyzer was further enhanced by calibrating the setup using the power meter and synthesized signal generator.

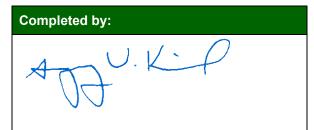
Prior to measuring peak power spectral density, the emission bandwidth (B) and the transmission pulse duration (T) were measured. Both are required to determine the method of measuring peak power spectral density. The method of measuring the emission bandwidth and the associated data are found elsewhere in this test report. The transmission pulse duration (T) was measured across a constant amplitude pulse using an RF detector diode and an oscilloscope. The scope photos are found with the peak power measurement data elsewhere in this report.

Method #1 found in FCC Public Notice DA02-2138 was used because the analyzer sweep time was greater than T.

The spectrum analyzer settings were as follows:

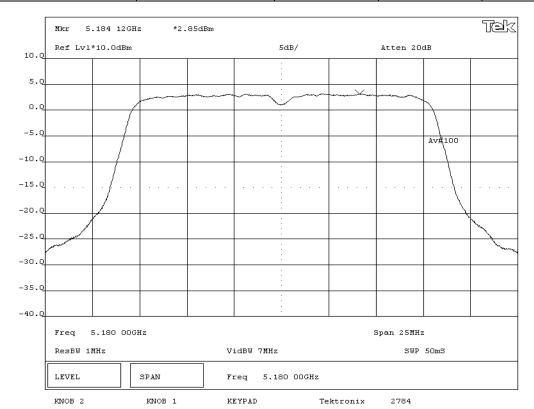
- > The span was set to encompass entire emission bandwidth (B), centered on the transmit channel.
- ➤ The RBW = 1 MHz, VBW > RBW

The peak power spectral density (PPSD) was determined to be the highest level found across the emission in any 1 MHz band after 100 sweeps of averaging (per the workshop notes provided by Joe Dichoso of the FCC during the TCB training February 2002)



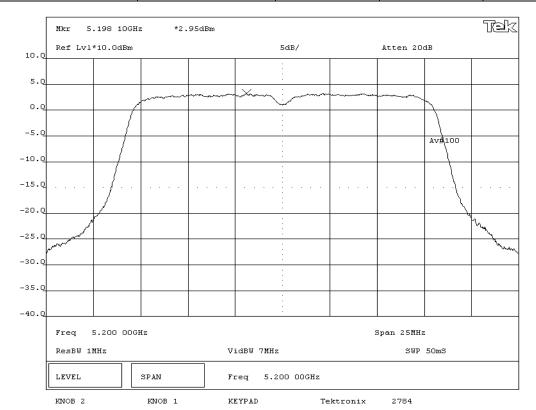
NORTHWEST EMC		<b>EMISSIONS</b>	DATA SHI	EET		Rev BETA 01/30/01		
EUT:	802MIAG-CV60				Work Order:	ITRM0041		
Serial Number:	002-032				Date:	09/27/04		
Customer:	Intermec Corporation				Temperature:	72F		
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH		
Customer Ref. No.:	Job Site:	EV06						
TEST SPECIFICATION	TEST SPECIFICATIONS							
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	.4 Year:	2002, 2001		
SAMPLE CALCULATION	ONS							
COMMENTS	wer + Maximum Antenna Gain  uter. The transmission pulse durat	ion (T) is 1.02 mS						
EUT OPERATING MOD		ion (1) is 1.02 ms.						
	e duration is the same for all data	rates and transmit channels						
DEVIATIONS FROM TE		rates and transmit chamiers.						
None	EST STANDARD							
REQUIREMENTS								
	band, the peak power spectral dens	ity shall not exceed 4dRm in any 1 M	IHz hand					
	eater than 6 dBi, the peak power spe			ectional gain of the ante	nna evceeds 6 dRi			
	outer triair o del, trio pour power ope	onal denoty made be readed by the	dinodite iii db dide dio di	occornal gain of the ante	and execute o abi.			
RESULTS								
Pass SIGNATURE								
Tested By:	ATTU.K.P							
DESCRIPTION OF TES	т							
DESSTAIN HORE OF TES	Peak Power Spectral Density - Low Channel - 5.15 to 5.25 GHz Band							

	Frequency	Peak Power Spectral Density	Spec	Max Antenna Gain	EIRP
	(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
Ĭ	5180.0	2.9	4.0	1.0	3.9



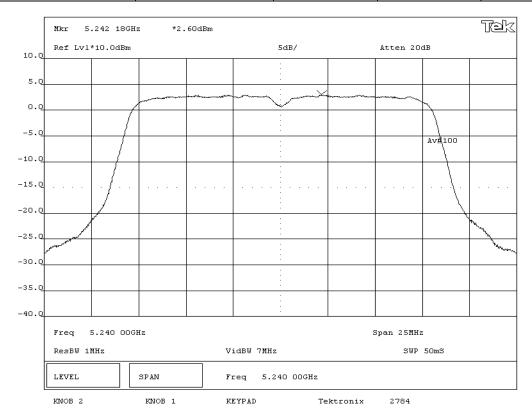
NORTHWEST EMC	<b>EMISSIONS</b>	DATA SH	ET		Rev BETA 01/30/01		
EUT: 802MIAG-CV60				Work Order:	ITRM0041		
Serial Number: 002-032				Date:	09/27/04		
Customer: Intermec Corporation				Temperature:	72F		
Attendees: None		Tested by:	Greg Kiemel	Humidity:	38% RH		
Customer Ref. No.: N/A		Power:	120 V, 60 Hz	Job Site:	EV06		
TEST SPECIFICATIONS							
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.4	Year:	2002, 2001		
SAMPLE CALCULATIONS							
EIRP (peak) = Peak Power + Maximum Antenna Ga							
Tested in CV60 Computer. The transmission pulse	duration (T) is 1.02 mS.						
EUT OPERATING MODES							
The transmission pulse duration is the same for a	Il data rates and transmit channels.						
DEVIATIONS FROM TEST STANDARD							
None							
REQUIREMENTS							
For the 5.15 - 5.25 GHz band, the peak power spectra							
If the antenna gain is greater than 6 dBi, the peak pow	ver spectral density must be reduced by t	ne amount in dB that the dire	ectional gain of the anter	nna exceeds 6 dBi.			
RESULTS							
Pass							
SIGNATURE							
Tested By:							
DESCRIPTION OF TEST							
Peak Power	er Spectral Density - Lo	ow Channel - 5	5.15 to 5.25 GI	Hz Band			

Frequency	Peak Power Spectral Density	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5200.0	3.0	4.0	1.0	



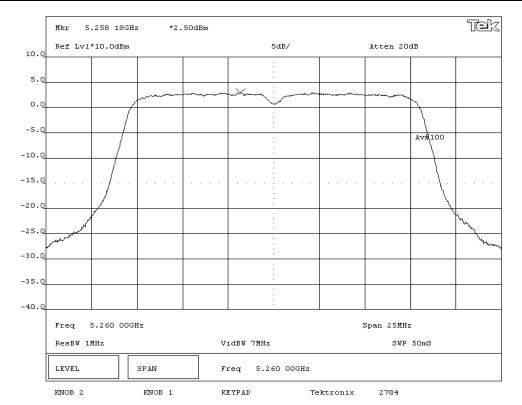
NORTHWEST EMC		<b>EMISSIONS</b>	DATA SHI	EET		Rev BETA 01/30/01		
EUT:	802MIAG-CV60				Work Order:	ITRM0041		
Serial Number:	002-032				Date:	09/27/04		
Customer:	Intermec Corporation				Temperature:	72F		
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH		
Customer Ref. No.:	Job Site:	EV06						
TEST SPECIFICATION	TEST SPECIFICATIONS							
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	.4 Year:	2002, 2001		
SAMPLE CALCULATION	ONS							
COMMENTS	wer + Maximum Antenna Gain  uter. The transmission pulse durat	ion (T) is 1.02 mS						
EUT OPERATING MOD		ion (1) is 1.02 ms.						
	e duration is the same for all data	rates and transmit channels						
DEVIATIONS FROM TE		rates and transmit chamiers.						
None	EST STANDARD							
REQUIREMENTS								
	band, the peak power spectral dens	ity shall not exceed 4dRm in any 1 M	IHz hand					
	eater than 6 dBi, the peak power spe			ectional gain of the ante	nna evceeds 6 dRi			
	outer triair o del, trio pour power ope	onal denoty made be readed by the	dinodite iii db dide dio di	occornal gain of the ante	and execute o abi.			
RESULTS								
Pass SIGNATURE								
Tested By:	ATTU.K.P							
DESCRIPTION OF TES	т							
DESSTAIN HORE OF TES	Peak Power Spectral Density - Low Channel - 5.15 to 5.25 GHz Band							

	Frequency	Peak Power Spectral Density	Spec	Max Antenna Gain	EIRP
	(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
Ī	5240.0	2.6	4.0	1.0	3.6



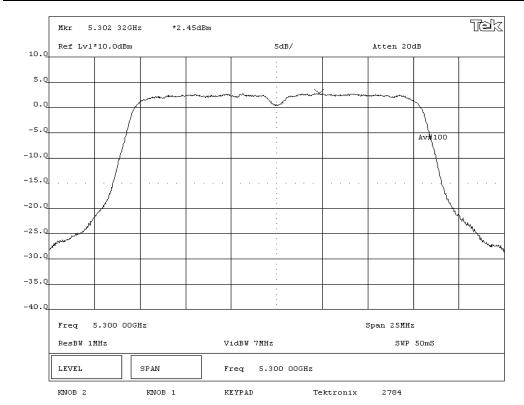
NORTHWEST EMC		<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01	
EUT: 8	02MIAG-CV60				Work Order	ITRM0041	
Serial Number: 0	02-032				Date:	09/27/04	
Customer: In	ntermec Corporation				Temperature:	72F	
Attendees: N				Greg Kiemel	Humidity:		
Customer Ref. No.: N			Power:	120 V, 60 Hz	Job Site:	EV06	
TEST SPECIFICATIONS							
	7 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001	
SAMPLE CALCULATION	NS						
EIRP (peak) = Peak Pow	ver + Maximum Antenna Gain						
	ter. The transmission pulse dura	tion (T) is 1 02 mS					
EUT OPERATING MODE		1011 (1) 13 1.02 1110.					
	duration is the same for all data	rates and transmit channels.					
DEVIATIONS FROM TES							
None							
REQUIREMENTS							
For the 5.25 - 5.35 GHz b	oand, the peak power spectral dens	sity shall not exceed 11dBm in any 1	MHz band.				
If the antenna gain is great	ater than 6 dBi, the peak power spe	ectral density must be reduced by th	e amount in dB that the	directional gain of the an	tenna exceeds 6 dBi.		
RESULTS							
Pass							
SIGNATURE							
Tested By:							
DESCRIPTION OF TEST							
	Peak Power Sp	pectral Density - Lov	w Channel - 5	5.25 to 5.35 G	Hz Band		

Frequency	Peak Power Spectral Density	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5260.0	2.5	11.0	1.0	3.5



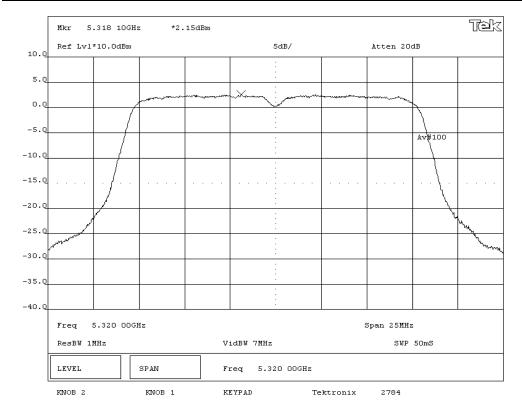
NORTHWEST EMC		<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01	
EUT: 8	02MIAG-CV60				Work Order	ITRM0041	
Serial Number: 0	02-032				Date:	09/27/04	
Customer: In	ntermec Corporation				Temperature:	72F	
Attendees: N				Greg Kiemel	Humidity:		
Customer Ref. No.: N			Power:	120 V, 60 Hz	Job Site:	EV06	
TEST SPECIFICATIONS							
	7 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001	
SAMPLE CALCULATION	NS						
EIRP (peak) = Peak Pow	ver + Maximum Antenna Gain						
	ter. The transmission pulse dura	tion (T) is 1 02 mS					
EUT OPERATING MODE		1011 (1) 13 1.02 1110.					
	duration is the same for all data	rates and transmit channels.					
DEVIATIONS FROM TES							
None							
REQUIREMENTS							
For the 5.25 - 5.35 GHz b	oand, the peak power spectral dens	sity shall not exceed 11dBm in any 1	MHz band.				
If the antenna gain is great	ater than 6 dBi, the peak power spe	ectral density must be reduced by th	e amount in dB that the	directional gain of the an	tenna exceeds 6 dBi.		
RESULTS							
Pass							
SIGNATURE							
Tested By:							
DESCRIPTION OF TEST							
	Peak Power Sp	pectral Density - Lov	w Channel - 5	5.25 to 5.35 G	Hz Band		

Frequency	Peak Power Spectral Density	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5300.0	2.5	11.0	1.0	3.5



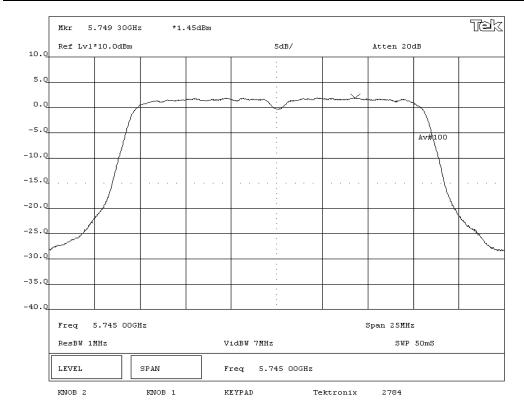
NORTHWEST EMC		<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01	
EUT: 8	02MIAG-CV60				Work Order	ITRM0041	
Serial Number: 0	02-032				Date:	09/27/04	
Customer: In	ntermec Corporation				Temperature:	72F	
Attendees: N				Greg Kiemel	Humidity:		
Customer Ref. No.: N			Power:	120 V, 60 Hz	Job Site:	EV06	
TEST SPECIFICATIONS							
	7 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001	
SAMPLE CALCULATION	NS						
EIRP (peak) = Peak Pow	ver + Maximum Antenna Gain						
	ter. The transmission pulse dura	tion (T) is 1 02 mS					
EUT OPERATING MODE		1011 (1) 13 1.02 1110.					
	duration is the same for all data	rates and transmit channels.					
DEVIATIONS FROM TES							
None							
REQUIREMENTS							
For the 5.25 - 5.35 GHz b	oand, the peak power spectral dens	sity shall not exceed 11dBm in any 1	MHz band.				
If the antenna gain is great	ater than 6 dBi, the peak power spe	ectral density must be reduced by th	e amount in dB that the	directional gain of the an	tenna exceeds 6 dBi.		
RESULTS							
Pass							
SIGNATURE							
Tested By:							
DESCRIPTION OF TEST							
	Peak Power Sp	pectral Density - Lov	w Channel - 5	5.25 to 5.35 G	Hz Band		

Frequency	Peak Power Spectral Density	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5320.0	2.2	11.0	1.0	3.2



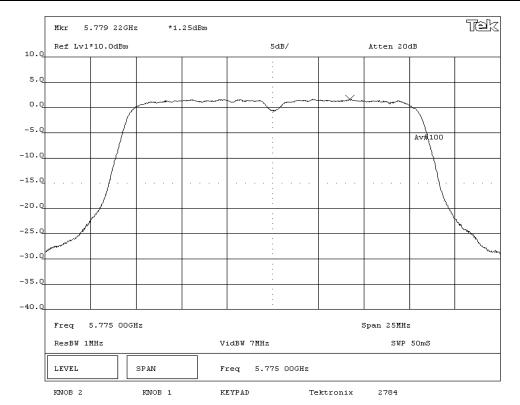
NORTHWEST EMC		<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01			
EUT:	802MIAG-CV60				Work Order:	ITRM0041			
Serial Number:	002-032				Date:	09/27/04			
Customer:	Intermec Corporation				Temperature:	72F			
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH			
Customer Ref. No.:	N/A		Power:	120 V, 60 Hz	Job Site:	EV06			
TEST SPECIFICATION	IS								
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001			
SAMPLE CALCULATION	ONS								
. ,	ower + Maximum Antenna Gain								
COMMENTS									
	uter. The transmission pulse dura	tion (1) is 1.02 mS.							
EUT OPERATING MOD	DES se duration is the same for all data								
		rates and transmit channels.							
DEVIATIONS FROM TO None	EST STANDARD								
REQUIREMENTS									
	Hz band, the peak power spectral de	ensity shall not exceed 17dRm in an	/ 1 MHz hand						
	reater than 6 dBi, the peak power spe			directional gain of the an	tenna exceeds 6 dBi				
RESULTS	outer than o delt, the peak pewer op	oodal delicity made be re-	o amount in ab alat alo	an contonal gam of the an	torma oxocodo o abi.				
Pass									
SIGNATURE									
Tested By:									
DESCRIPTION OF TES									
	Peak Power Spectral Density - Low Channel - 5.725 to 5.825 GHz Band								

Frequency	Peak Power Spectral Density	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5745.0	1.5	17.0	1.0	2.5



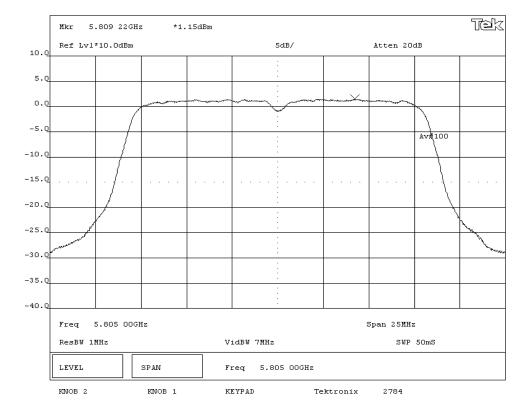
NORTHWEST EMC		<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01		
EUT: 80	02MIAG-CV60				Work Order:	ITRM0041		
Serial Number: 00	02-032				Date:	09/27/04		
Customer: In	termec Corporation				Temperature:	72F		
Attendees: No	****			Greg Kiemel	Humidity:			
Customer Ref. No.: N	/A		Power:	120 V, 60 Hz	Job Site:	EV06		
TEST SPECIFICATIONS								
	7 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001		
SAMPLE CALCULATION	IS							
EIRP (peak) = Peak Powe	er + Maximum Antenna Gain							
	er. The transmission pulse durat	ion (T) is 1 02 mS						
EUT OPERATING MODE		1011 (1) IS 1.02 III3.						
	duration is the same for all data	rates and transmit channels.						
DEVIATIONS FROM TES								
None	7. 017.11.157.11.15							
REQUIREMENTS								
For the 5.725 - 5.825 GHz	band, the peak power spectral de	nsity shall not exceed 17dBm in an	y 1 MHz band.					
If the antenna gain is grea	ter than 6 dBi, the peak power spe	ectral density must be reduced by th	e amount in dB that the	directional gain of the an	tenna exceeds 6 dBi.			
RESULTS								
Pass								
SIGNATURE								
Tested By:								
	_							
DESCRIPTION OF TEST								
	Peak Power Spectral Density - Low Channel - 5.725 to 5.825 GHz Band							

Frequency	Peak Power Spectral Density	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5775.0	1.3	17.0	1.0	2.3



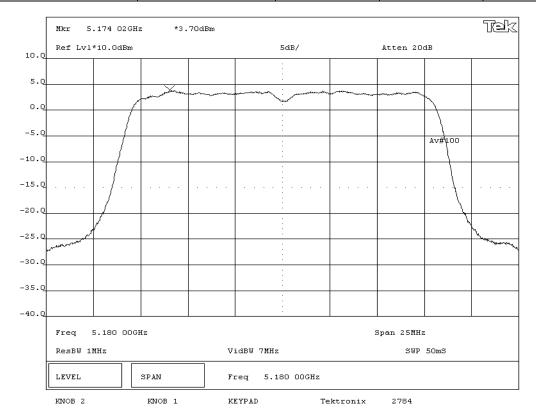
NORTHWEST EMC		<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01		
EUT: 80	02MIAG-CV60				Work Order:	ITRM0041		
Serial Number: 00	02-032				Date:	09/27/04		
Customer: In	termec Corporation				Temperature:	72F		
Attendees: No	****			Greg Kiemel	Humidity:			
Customer Ref. No.: N	/A		Power:	120 V, 60 Hz	Job Site:	EV06		
TEST SPECIFICATIONS								
	7 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001		
SAMPLE CALCULATION	IS							
EIRP (peak) = Peak Powe	er + Maximum Antenna Gain							
	er. The transmission pulse durat	ion (T) is 1 02 mS						
EUT OPERATING MODE		1011 (1) IS 1.02 III3.						
	duration is the same for all data	rates and transmit channels.						
DEVIATIONS FROM TES								
None	7. 017.11.157.11.15							
REQUIREMENTS								
For the 5.725 - 5.825 GHz	band, the peak power spectral de	nsity shall not exceed 17dBm in an	y 1 MHz band.					
If the antenna gain is grea	ter than 6 dBi, the peak power spe	ectral density must be reduced by th	e amount in dB that the	directional gain of the an	tenna exceeds 6 dBi.			
RESULTS								
Pass								
SIGNATURE								
Tested By:								
	_							
DESCRIPTION OF TEST								
	Peak Power Spectral Density - Low Channel - 5.725 to 5.825 GHz Band							

Frequency	Peak Power Spectral Density	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5805.0	1.2	17.0	1.0	2.2



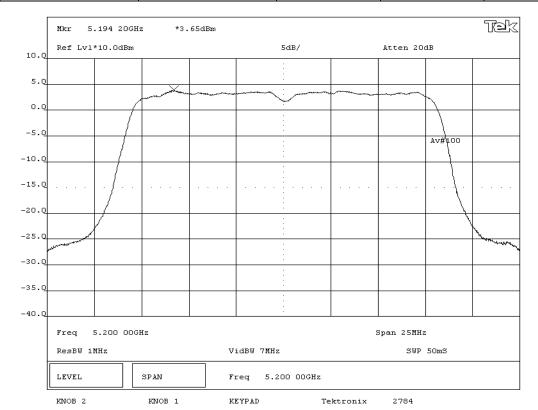
NORTHWEST EMC	<b>EMISSIONS</b>	DATA SHEET		Rev BETA 01/30/01				
EUT: 802MIAG-CV60			Work Order:	ITRM0041				
Serial Number: 002-032 Date: 09/27/04								
Customer: Intermec Corporation Temperature: 72F								
Attendees: None		Tested by: Greg Kiemel	Humidity:	38% RH				
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	Job Site:	EV06				
TEST SPECIFICATIONS								
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63.	4 Year:	2002, 2001				
SAMPLE CALCULATIONS								
EIRP (peak) = Peak Power + Maximum Antenna Gain COMMENTS								
Tested in CV60 Computer. The transmission pulse du	ıration (T) is 1.02 mS.							
EUT OPERATING MODES								
The transmission pulse duration is the same for all d	ata rates and transmit channels.							
DEVIATIONS FROM TEST STANDARD								
None								
REQUIREMENTS								
For the 5.15 - 5.25 GHz band, the peak power spectral d								
If the antenna gain is greater than 6 dBi, the peak power	spectral density must be reduced by the	e amount in dB that the directional gain of the ante	nna exceeds 6 dBi.					
RESULTS								
Pass								
SIGNATURE								
Tested By:								
DESCRIPTION OF TEST								
Peak Power	Spectral Density - Lo	ow Channel - 5.15 to 5.25 G	Hz Band					

Frequency	Peak Power Spectral Density	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5180.0	3.7	4.0	1.0	



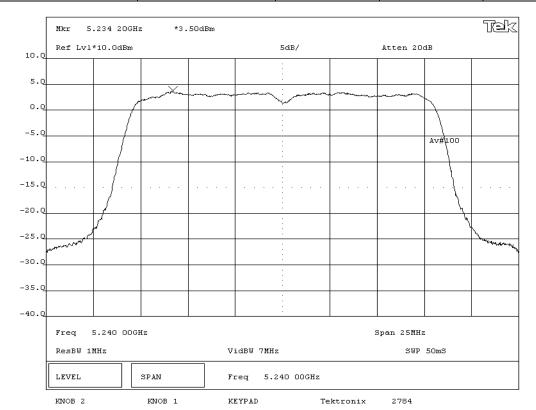
NORTHWEST EMC	<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01			
EUT: 802MIAG-CV60				Work Order:	ITRM0041			
Serial Number: 002-032				Date:	09/27/04			
Customer: Intermec Corporation				Temperature:	72F			
Attendees: None		Tested by:	Greg Kiemel	Humidity:	38% RH			
Customer Ref. No.: N/A		Power:	120 V, 60 Hz	Job Site:	EV06			
TEST SPECIFICATIONS								
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	4 Year:	2002, 2001			
SAMPLE CALCULATIONS  EIRP (peak) = Peak Power + Maximum Antenna Gain								
COMMENTS								
Tested in CV60 Computer. The transmission pulse durate	ion (T) is 1.02 mS.							
EUT OPERATING MODES								
The transmission pulse duration is the same for all data	rates and transmit channels.							
DEVIATIONS FROM TEST STANDARD								
None								
REQUIREMENTS								
For the 5.15 - 5.25 GHz band, the peak power spectral dens if the antenna gain is greater than 6 dBi, the peak power spe				d- 0 dD:				
if the antenna gain is greater than 6 dbi, the peak power spe	ctrai density must be reduced by the	amount in dB that the dir	ectional gain of the ante	nna exceeds 6 dBi.				
RESULTS								
Pass								
SIGNATURE								
Tested By:								
DESCRIPTION OF TEST								
Peak Power Spectral Density - Low Channel - 5.15 to 5.25 GHz Band								

	Frequency	Peak Power Spectral Density	Spec	Max Antenna Gain	EIRP
	(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
,	5200.0	3.7	4.0	1.0	4.7



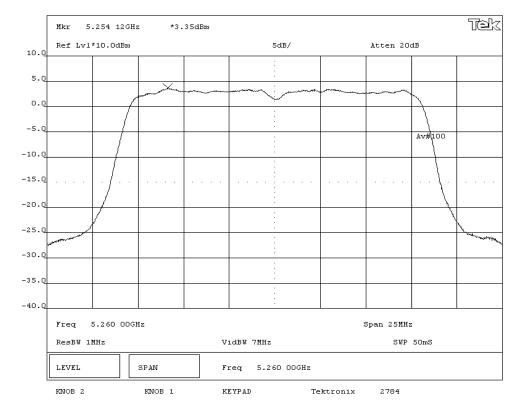
NORTHWEST	<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01		
EUT: 802MIAG-CV60				Work Order	:: ITRM0041		
Serial Number: 002-032				Date	: 09/27/04		
Customer: Intermec Corporation				Temperature	: 72F		
Attendees: None		Tested by:	Greg Kiemel	Humidity	/: 38% RH		
Customer Ref. No.: N/A		Power:	120 V, 60 Hz	Job Site	e: EV06		
TEST SPECIFICATIONS							
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	4 Year	r: 2002, 2001		
SAMPLE CALCULATIONS							
EIRP (peak) = Peak Power + Maximum Antenna Gain							
Tested in CV60 Computer. The transmission pulse durate	ion (T) is 1.02 mS.						
EUT OPERATING MODES							
The transmission pulse duration is the same for all data	rates and transmit channels.						
DEVIATIONS FROM TEST STANDARD							
None							
REQUIREMENTS							
For the 5.15 - 5.25 GHz band, the peak power spectral densi	ty shall not exceed 4dBm in any 1 M	IHz band.					
If the antenna gain is greater than 6 dBi, the peak power spe	ctral density must be reduced by the	amount in dB that the di	rectional gain of the ante	nna exceeds 6 dBi.			
RESULTS							
Pass							
SIGNATURE							
Tested By:							
Peak Power Spectral Density - Low Channel - 5.15 to 5.25 GHz Band							

	Frequency	Peak Power Spectral Density	Spec	Max Antenna Gain	EIRP
	(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
ĺ	5240.0	3.5	4.0	1.0	4.5



NORTHWEST EMC		<b>EMISSIONS</b>	DATA SH	EET			Rev BETA 01/30/01		
	802MIAG-CV60				Work Order:	ITPM0041	01/30/01		
Serial Number:						09/27/04			
	Intermec Corporation				Temperature:				
	Attendees: None Tested by: Greg Kiemel Hunidity: 38% RI								
Customer Ref. No.:	N/A			120 V, 60 Hz	Job Site:				
TEST SPECIFICATION	IS								
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 200 <sup>-</sup>			
SAMPLE CALCULATION	ONS								
EIRP (peak) = Peak Po	ower + Maximum Antenna Gain								
Tested in CV60 Comp	uter. The transmission pulse du	uration (T) is 1.02 mS.							
<b>EUT OPERATING MOI</b>									
The transmission puls	se duration is the same for all d	ata rates and transmit channels.							
<b>DEVIATIONS FROM T</b>	EST STANDARD								
None									
REQUIREMENTS									
		ensity shall not exceed 11dBm in any							
If the antenna gain is gi	reater than 6 dBi, the peak power	spectral density must be reduced by the	e amount in dB that the	directional gain of the an	tenna exceeds 6 dBi.				
RESULTS									
Pass									
SIGNATURE									
Tested By:	Tested By:								
DESCRIPTION OF TES									
	Peak Power S	Spectral Density - Lo	w Channel - 5	5.25 to 5.35 GI	Hz Band				

Frequency	Peak Power Spectral Density	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5260.0	3.4	11.0	1.0	4.4



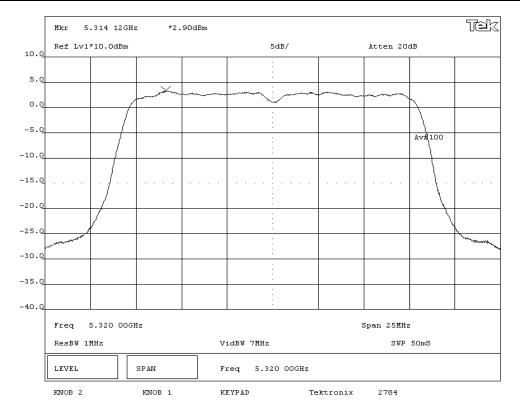
NORTHWEST EMC	<b>EMISSIONS</b>	DATA SHE	ET		Rev BETA 01/30/01				
EUT: 802MIAG-CV60				Work Order:					
Serial Number: 002-032					09/27/04				
Customer: Intermec Corporation Temperature: 72F									
Attendees: None									
Customer Ref. No.: N/A		Power: 1	120 V, 60 Hz	Job Site:	EV06				
TEST SPECIFICATIONS									
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001				
SAMPLE CALCULATIONS									
EIRP (peak) = Peak Power + Maximum Antenna Gain									
Tested in CV60 Computer. The transmission pulse dur	ation (T) is 1 02 mS								
EUT OPERATING MODES	ation (1) 13 1.02 mo.								
The transmission pulse duration is the same for all dat	a rates and transmit channels.								
DEVIATIONS FROM TEST STANDARD									
None									
REQUIREMENTS									
For the 5.25 - 5.35 GHz band, the peak power spectral der	sity shall not exceed 11dBm in any 1	MHz band.							
If the antenna gain is greater than 6 dBi, the peak power s	pectral density must be reduced by the	e amount in dB that the di	rectional gain of the an	tenna exceeds 6 dBi.					
RESULTS									
Pass									
SIGNATURE									
Tested By:									
	_								
DESCRIPTION OF TEST									
Peak Power S	Peak Power Spectral Density - Low Channel - 5.25 to 5.35 GHz Band								

Frequency	Peak Power Spectral Density	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5300.0	3.2	11.0	1.0	4.2



NORTHWEST EMC		<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01				
EUT:	802MIAG-CV60				Work Order:	ITRM0041				
Serial Number:	002-032				Date:	09/27/04				
Customer:	Customer: Intermec Corporation Temperature: 72F									
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH				
Customer Ref. No.:			Power:	120 V, 60 Hz	Job Site:	EV06				
TEST SPECIFICATION	IS									
	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001				
SAMPLE CALCULATION	ONS									
. ,	ower + Maximum Antenna Gain									
COMMENTS										
EUT OPERATING MOD	uter. The transmission pulse dura	tion (1) is 1.02 mS.								
	DES se duration is the same for all data	votes and transmit shannels								
DEVIATIONS FROM T		rates and transmit chamilers.								
None	EST STANDARD									
REQUIREMENTS										
	band, the peak power spectral dens	sity shall not exceed 11dRm in any 1	MHz hand							
	reater than 6 dBi, the peak power sp			directional gain of the an	tenna exceeds 6 dBi					
RESULTS				<u> </u>						
Pass										
SIGNATURE										
Tested By:										
DESCRIPTION OF TES	DESCRIPTION OF TEST									
	Peak Power Sp	pectral Density - Lo	w Channel - 5	.25 to 5.35 GI	Hz Band					

Frequency	Peak Power Spectral Density	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5320.0	2.9	11.0	1.0	3.9



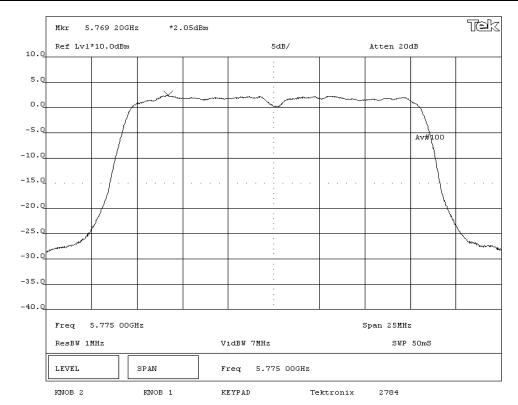
NORTHWEST EMC		<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01
EUT:	802MIAG-CV60				Work Order:	ITRM0041
Serial Number:	002-032				Date:	09/27/04
Customer:	Intermec Corporation				Temperature:	72F
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A		Power:	120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	IS					
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001
SAMPLE CALCULATION	ONS					
. ,	ower + Maximum Antenna Gain					
COMMENTS						
	uter. The transmission pulse dura	tion (1) is 1.02 mS.				
EUT OPERATING MOD	DES se duration is the same for all data					
		rates and transmit channels.				
DEVIATIONS FROM TO None	EST STANDARD					
REQUIREMENTS						
	Hz band, the peak power spectral de	ensity shall not exceed 17dRm in any	/ 1 MHz hand			
	reater than 6 dBi, the peak power spe			directional gain of the an	tenna exceeds 6 dBi	
RESULTS	outer than o delt, the peak pewer op	oodal delicity made be re-	o amount in ab alat alo	an contonal gam of the an	torma oxocodo o abi.	
Pass						
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TES						
	Peak Power Spe	ectral Density - Low	Channel - 5.	725 to 5.825 C	Hz Band	

Frequency	Peak Power Spectral Density	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5745.0	2.2	17.0	1.0	3.2



NORTHWEST EMC		<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01
EUT:	802MIAG-CV60				Work Order:	ITRM0041
Serial Number:	002-032				Date:	09/27/04
Customer:	Intermec Corporation				Temperature:	72F
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A		Power:	120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATION	IS					
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001
SAMPLE CALCULATION	ONS					
. ,	ower + Maximum Antenna Gain					
COMMENTS						
	uter. The transmission pulse dura	tion (1) is 1.02 mS.				
EUT OPERATING MOD	DES se duration is the same for all data					
		rates and transmit channels.				
DEVIATIONS FROM TO None	EST STANDARD					
REQUIREMENTS						
	Hz band, the peak power spectral de	ensity shall not exceed 17dRm in any	/ 1 MHz hand			
	reater than 6 dBi, the peak power spe			directional gain of the an	tenna exceeds 6 dBi	
RESULTS	outer than o delt, the peak pewer op	oodal delicity made be re-	o amount in ab alat alo	an contonal gam of the an	torma oxocodo o abi.	
Pass						
SIGNATURE						
Tested By:	ADU.K.P					
DESCRIPTION OF TES						
	Peak Power Spe	ectral Density - Low	Channel - 5.	725 to 5.825 C	Hz Band	

Frequency	Peak Power Spectral Density	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5775.0	2.1	17.0	1.0	3.1



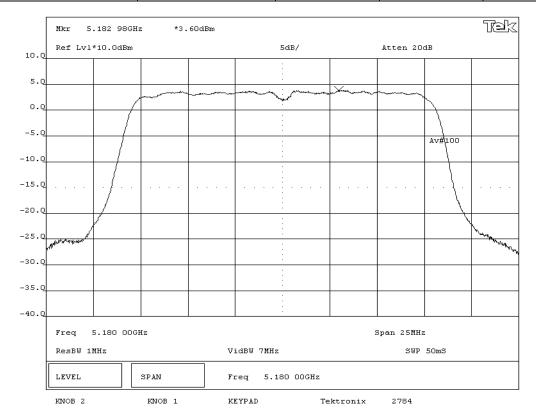
NORTHWEST	EMISSIONS		CCT		Rev BETA
EMC	EMISSICIAS I	DATA SH	EE 1		01/30/01
EUT: 802MIAG-CV60				Work Order:	ITRM0041
Serial Number: 002-032				Date:	09/27/04
Customer: Intermec Corporation				Temperature:	72F
Attendees: None		Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.: N/A		Power:	120 V, 60 Hz	Job Site:	EV06
TEST SPECIFICATIONS					
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	3.4 Year:	2002, 2001
SAMPLE CALCULATIONS					
EIRP (peak) = Peak Power + Maximum Antenna Gain					
COMMENTS					
Tested in CV60 Computer. The transmission pulse dura	tion (T) is 1.02 mS.				
EUT OPERATING MODES					
The transmission pulse duration is the same for all data	a rates and transmit channels.				
DEVIATIONS FROM TEST STANDARD					
None					
REQUIREMENTS		4.40			
For the 5.725 - 5.825 GHz band, the peak power spectral d If the antenna gain is greater than 6 dBi, the peak power sp					
if the antenna gain is greater than 6 dBi, the peak power sp	ectral density must be reduced by th	e amount in dB that the	directional gain of the an	itenna exceeds 6 dBi.	
RESULTS					
Pass					
SIGNATURE					
Tested By:					
250000000000000000000000000000000000000					
DESCRIPTION OF TEST					
Peak Power Spe	ectral Density - Low	Channel - 5.7	725 to 5.825 (	GHz Band	

Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
(11112)	(uBiii)	(ubiii)	(ubi)	(ubiii)
5805.0	1.8	17.0	1.0	2.8



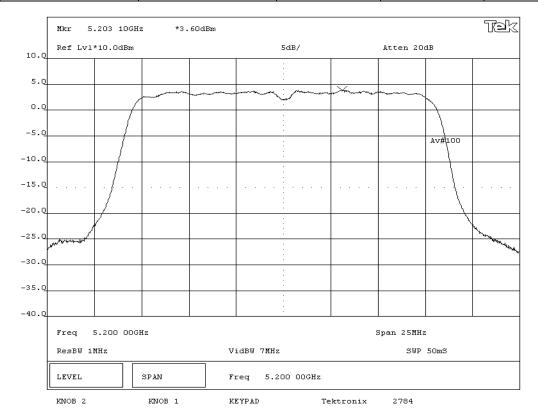
NORTHWEST EMC		<b>EMISSIONS</b>	DATA SHI	EET		Rev BETA 01/30/01			
EUT:	802MIAG-CV60				Work Order:	ITRM0041			
Serial Number:	002-032				Date:	09/27/04			
Customer:	Intermec Corporation				Temperature:	72F			
Attendees:	None		Tested by:	Greg Kiemel	Humidity:	38% RH			
Customer Ref. No.:	N/A		Power:	120 V, 60 Hz	Job Site:	EV06			
TEST SPECIFICATION	s								
Specification:	47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	.4 Year:	2002, 2001			
SAMPLE CALCULATION	ONS								
COMMENTS	wer + Maximum Antenna Gain  uter. The transmission pulse durat	ion (T) is 1.02 mS							
EUT OPERATING MOD		ion (1) is 1.02 ms.							
	e duration is the same for all data	rates and transmit channels							
DEVIATIONS FROM TE		rates and transmit chamiers.							
None	EST STANDARD								
REQUIREMENTS									
	band, the peak power spectral dens	ity shall not exceed 4dRm in any 1 M	IHz hand						
	eater than 6 dBi, the peak power spe			ectional gain of the ante	nna evceeds 6 dRi				
	outer triair o del, trio pour power ope	onal denoty made be readed by the	dinodite iii db dide dio di	occornal gain of the ante	and execute o abi.				
RESULTS									
Pass SIGNATURE									
Tested By:	ATTU. K.P								
DESCRIPTION OF TES	т								
DESSTAIN HORE OF TES	Peak Power Spectral Density - Low Channel - 5.15 to 5.25 GHz Band								

	Frequency	Peak Power Spectral Density	Spec	Max Antenna Gain	EIRP
	(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
Ì	5180.0	3.6	4.0	1.0	4.6



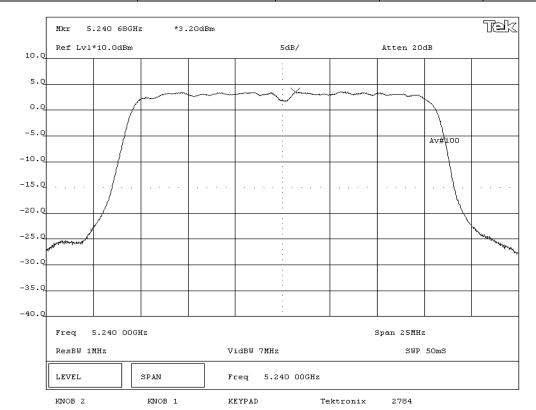
NORTHWEST EMC	<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01			
EUT: 802MIAG-CV60				Work Order:	ITRM0041			
Serial Number: 002-032				Date:	09/27/04			
Customer: Intermec Corporation				Temperature:	72F			
Attendees: None		Tested by:	Greg Kiemel	Humidity:	38% RH			
Customer Ref. No.: N/A		Power:	120 V, 60 Hz	Job Site:	EV06			
TEST SPECIFICATIONS								
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	4 Year:	2002, 2001			
SAMPLE CALCULATIONS  EIRP (peak) = Peak Power + Maximum Antenna Gain								
COMMENTS								
Tested in CV60 Computer. The transmission pulse durate	ion (T) is 1.02 mS.							
EUT OPERATING MODES								
The transmission pulse duration is the same for all data	rates and transmit channels.							
DEVIATIONS FROM TEST STANDARD								
None								
REQUIREMENTS								
For the 5.15 - 5.25 GHz band, the peak power spectral dens if the antenna gain is greater than 6 dBi, the peak power spe				d- 0 dD:				
if the antenna gain is greater than 6 dbi, the peak power spe	ctrai density must be reduced by the	amount in dB that the dir	ectional gain of the ante	nna exceeds 6 dBl.				
RESULTS								
Pass								
SIGNATURE								
Tested By:								
DESCRIPTION OF TEST								
	Peak Power Spectral Density - Low Channel - 5.15 to 5.25 GHz Band							

Frequency	Peak Power Spectral Density	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5200.0	3.6	4.0	1.0	



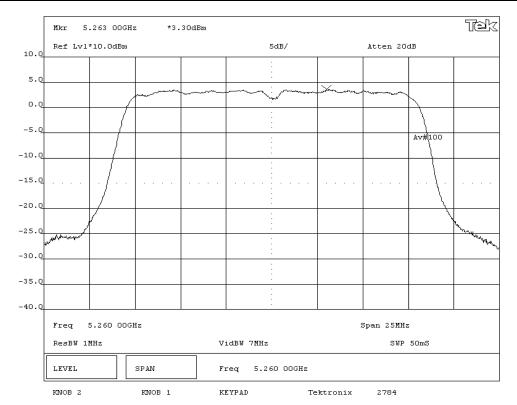
NORTHWEST EMC	<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01			
EUT: 802MIAG-CV60				Work Order:	ITRM0041			
Serial Number: 002-032				Date:	09/27/04			
Customer: Intermec Corporation				Temperature:	72F			
Attendees: None		Tested by:	Greg Kiemel	Humidity:	38% RH			
Customer Ref. No.: N/A		Power:	120 V, 60 Hz	Job Site:	EV06			
TEST SPECIFICATIONS								
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63.	4 Year:	2002, 2001			
SAMPLE CALCULATIONS  EIRP (peak) = Peak Power + Maximum Antenna Gain								
COMMENTS								
Tested in CV60 Computer. The transmission pulse durate	ion (T) is 1.02 mS.							
EUT OPERATING MODES								
The transmission pulse duration is the same for all data	rates and transmit channels.							
DEVIATIONS FROM TEST STANDARD								
None								
REQUIREMENTS								
For the 5.15 - 5.25 GHz band, the peak power spectral dens if the antenna gain is greater than 6 dBi, the peak power spe				d- 0 dD:				
if the antenna gain is greater than 6 dbi, the peak power spe	ctrai density must be reduced by the	amount in dB that the dir	ectional gain of the ante	nna exceeds 6 dBi.				
RESULTS								
Pass								
SIGNATURE								
Tosted By:								
DESCRIPTION OF TEST								
	Peak Power Spectral Density - Low Channel - 5.15 to 5.25 GHz Band							

	Frequency	Peak Power Spectral Density	Spec	Max Antenna Gain	EIRP
	(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
,	5240.0	3.2	4.0	1.0	4.2



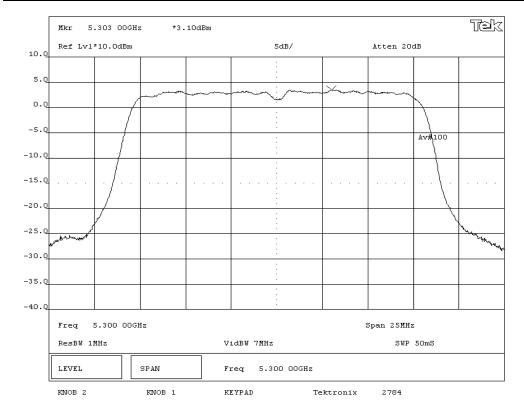
NORTHWEST EMC		<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01	
EUT: 80	2MIAG-CV60				Work Order	ITRM0041	
Serial Number: 00	02-032				Date:	09/27/04	
Customer: In	termec Corporation				Temperature:	72F	
Attendees: No	****			Greg Kiemel	Humidity:		
Customer Ref. No.: N/	/A		Power:	120 V, 60 Hz	Job Site:	EV06	
TEST SPECIFICATIONS							
	7 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001	
SAMPLE CALCULATION	IS						
EIRP (peak) = Peak Powe	er + Maximum Antenna Gain						
	er. The transmission pulse durat	tion (T) is 1 02 mS					
EUT OPERATING MODE		1011 (1) 13 1.02 1110.					
	duration is the same for all data	rates and transmit channels.					
DEVIATIONS FROM TES							
None							
REQUIREMENTS							
For the 5.25 - 5.35 GHz ba	and, the peak power spectral dens	ity shall not exceed 11dBm in any 1	MHz band.				
If the antenna gain is grea	ter than 6 dBi, the peak power spe	ectral density must be reduced by th	e amount in dB that the	directional gain of the an	tenna exceeds 6 dBi.		
RESULTS							
Pass							
SIGNATURE							
Tested By:	Tested By:						
DESCRIPTION OF TEST							
	Peak Power Spectral Density - Low Channel - 5.25 to 5.35 GHz Band						

Frequency	Peak Power Spectral Density	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5260.0	3.3	11.0	1.0	4.3



NORTHWEST EMC		<b>EMISSIONS</b>	DATA SH	EET		Rev BETA 01/30/01	
EUT: 80	2MIAG-CV60				Work Order	ITRM0041	
Serial Number: 00	02-032				Date:	09/27/04	
Customer: In	termec Corporation				Temperature:	72F	
Attendees: No	****			Greg Kiemel	Humidity:		
Customer Ref. No.: N/	/A		Power:	120 V, 60 Hz	Job Site:	EV06	
TEST SPECIFICATIONS							
	7 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	.4 Year:	2002, 2001	
SAMPLE CALCULATION	IS						
EIRP (peak) = Peak Powe	er + Maximum Antenna Gain						
	er. The transmission pulse durat	tion (T) is 1 02 mS					
EUT OPERATING MODE		1011 (1) 13 1.02 1110.					
	duration is the same for all data	rates and transmit channels.					
DEVIATIONS FROM TES							
None							
REQUIREMENTS							
For the 5.25 - 5.35 GHz ba	and, the peak power spectral dens	ity shall not exceed 11dBm in any 1	MHz band.				
If the antenna gain is grea	ter than 6 dBi, the peak power spe	ectral density must be reduced by th	e amount in dB that the	directional gain of the an	tenna exceeds 6 dBi.		
RESULTS							
Pass							
SIGNATURE							
Tested By:	Tested By:						
DESCRIPTION OF TEST							
	Peak Power Spectral Density - Low Channel - 5.25 to 5.35 GHz Band						

Frequency	Peak Power Spectral Density	Spec	Max Antenna Gain	EIRP
(MHz)	(dBm)	(dBm)	(dBi)	(dBm)
5300.0	3.1	11.0	1.0	4.1



NORTHWEST	EMISSIONS	DATA SH	CCT		Rev BETA	
EMC	EMISSICIAS	DATA SIT	CCI		01/30/01	
EUT: 802MIAG-CV60				Work Order:	ITRM0041	
Serial Number: 002-032				Date:	09/27/04	
Customer: Intermec Corporation				Temperature:	72F	
Attendees: None		Tested by:	Greg Kiemel	Humidity:	38% RH	
Customer Ref. No.: N/A		Power:	120 V, 60 Hz	Job Site:	EV06	
TEST SPECIFICATIONS						
Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method:	DA 02-2138, ANSI C63	3.4 Year:	2002, 2001	
SAMPLE CALCULATIONS						
EIRP (peak) = Peak Power + Maximum Antenna Gain						
COMMENTS						
Tested in CV60 Computer. The transmission pulse dura	tion (T) is 1.02 mS.					
EUT OPERATING MODES						
The transmission pulse duration is the same for all data	a rates and transmit channels.					
DEVIATIONS FROM TEST STANDARD						
None						
REQUIREMENTS						
For the 5.25 - 5.35 GHz band, the peak power spectral den						
If the antenna gain is greater than 6 dBi, the peak power sp	ectral density must be reduced by th	e amount in dB that the	directional gain of the ar	itenna exceeds 6 dBi.		
RESULTS						
Pass						
SIGNATURE						
Tested By:						
		•	•	•		
DESCRIPTION OF TEST						
Peak Power Spectral Density - Low Channel - 5.25 to 5.35 GHz Band						

Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
(2)	(42)	(42)	(4.2.)	(4.2)
5320.0	2.8	11.0	1.0	3.8

