

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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EMC Test Report



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	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FCC 15.407(a) Emission Bandwidth:2003	ANSI C63.4:2001	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FCC 15.407(a)(1)-(4) Peak Transmit Power:2003	ANSI C63.4:2001	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FCC 15.407(a)(1)-(5) Peak Power Spectral Density:2003	ANSI C63.4:2001	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FCC 15.407(a)(6) Peak Excursion of Mod. Envelope:2003	ANSI C63.4:2001	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FCC 15.407(b)(1)-(7) Spurious Radiated Emissions:2003	ANSI C63.4:2001	<input checked="" type="checkbox"/>	<input type="checkbox"/>
FCC 15.407(g) Frequency Stability:2003	ANSI C63.4:2001	<input checked="" type="checkbox"/>	<input type="checkbox"/>

Modifications made to the product

See the Modifications section of this report

Test Facility

- The measurement facility used to collect the data is located at:
Northwest EMC, Inc.; 22975 NW Evergreen Parkway, Suite 400; Hillsboro, OR 97124
Phone: (503) 844-4066 Fax: 844-3826
This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada.

Approved By:

Don Facteau, IS Manager

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

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

Revision Number	Description	Date	Page Number
00	None		

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



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



Industry Canada: Accredited by NVLAP for performance of Industry Canada RSS and ICES testing. Our Open Area Test Sites and certification chambers comply with RSS 212, Issue 1 (Provisional) and have been filed with Industry Canada and accepted. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by NIST and recognized by Industry Canada as a Certification Body (CB) per the APEC Mutual Recognition Arrangement (MRA). This allows Northwest EMC to certify transmitters to Industry Canada technical requirements.



CAB: Designated by NIST and validated by the European Commission as a Conformity Assessment Body (CAB) to conduct tests and approve products to the EMC directive and transmitters to the R&TTE directive, as described in the U.S. - EU Mutual Recognition Agreement



TÜV Product Service: Included in TÜV Product Service Group's Listing of Recognized Laboratories. It qualifies in connection with the TÜV Certification after Recognition of Agent's Testing Program for the product categories and/or standards shown in TÜV's current Listing of CARAT Laboratories available from TÜV. A certificate was issued to represent that this laboratory continues to meet TÜV's CARAT Program requirements. Certificate No. USA0401C



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



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



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



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



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



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



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



SCOPE

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

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

What is measurement uncertainty?

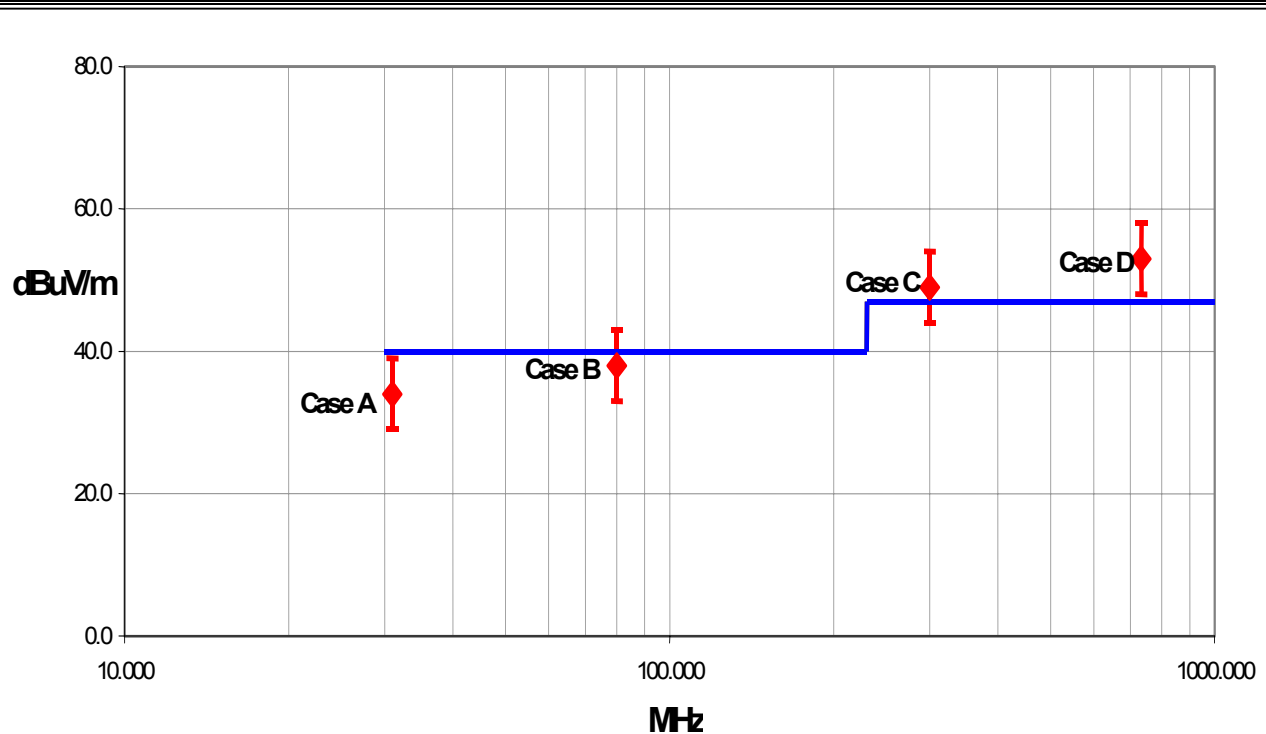
When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. The following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

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

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

How might measurement uncertainty be applied to test results?

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



Test Result Scenarios:

Case A: Product complies.

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

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

Case D: Product does not comply.

Radiated Emissions ≤ 1 GHz

Value (dB)

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

Radiated Emissions > 1 GHz

Value (dB)

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

Conducted Emissions

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

Radiated Immunity

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

Conducted Immunity

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

Legend

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

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



California

Orange County Facility

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



Oregon

Evergreen Facility

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



Oregon

Trails End Facility

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



Washington

Sultan Facility

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

Party Requesting the Test

Company Name:	Intermec Technologies Corporation
Address:	550 Second St. SE
City, State, Zip:	Cedar Rapids, IA 52401-2023
Test Requested By:	Scott Holub
Model:	802MIAG-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

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.

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
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Description

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	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 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	Tested by: Greg Kiemel
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
	Humidity: 38% RH
	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
EUT OPERATING MODES
 Modulated at 6 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD
 None

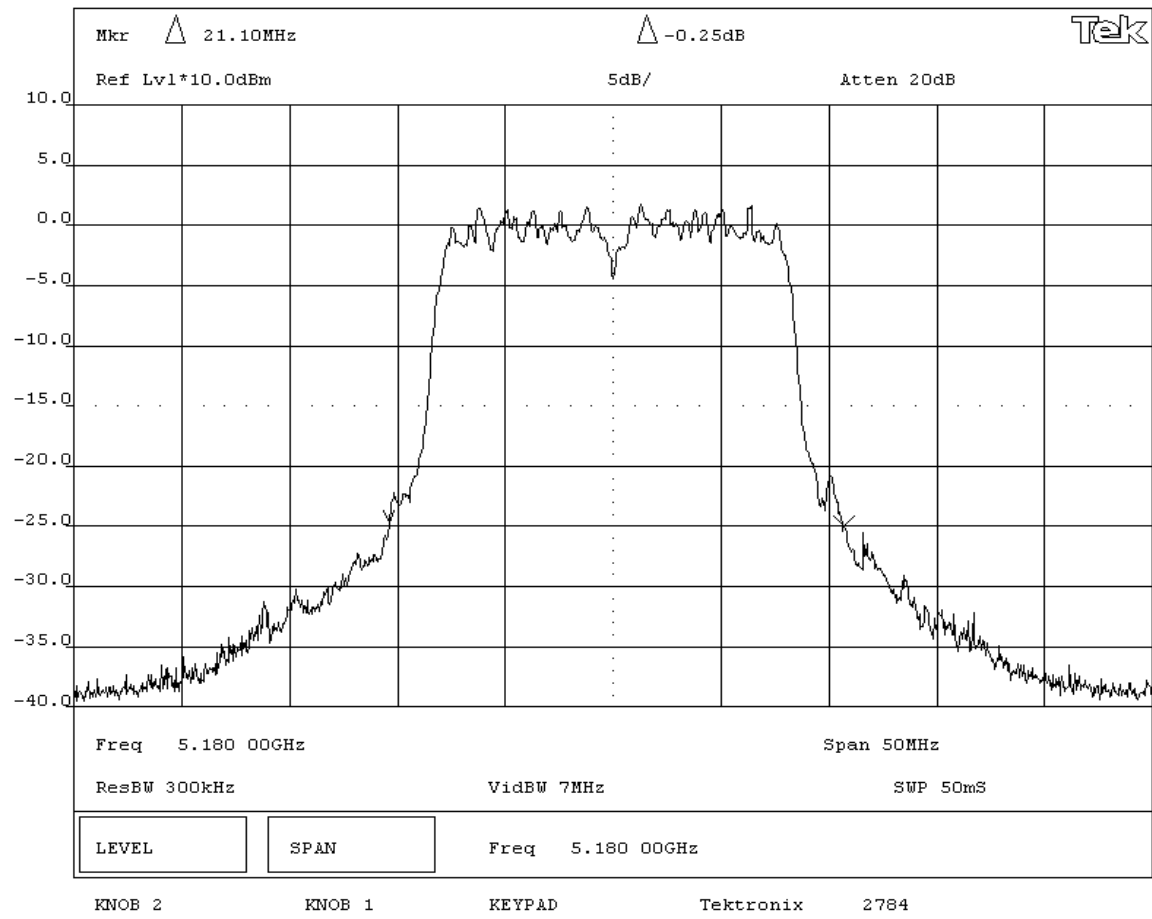
REQUIREMENTS
 The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

RESULTS	BANDWIDTH
Pass	21.1 MHz

SIGNATURE

 Tested By: _____

DESCRIPTION OF TEST
Emission Bandwidth (B) - Low Channel - 5.15 to 5.25 GHz Band



EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: 72F
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
Tested by: Greg Kiemel	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

EUT OPERATING MODES
Modulated at 6 Mbit. Maximum output power.

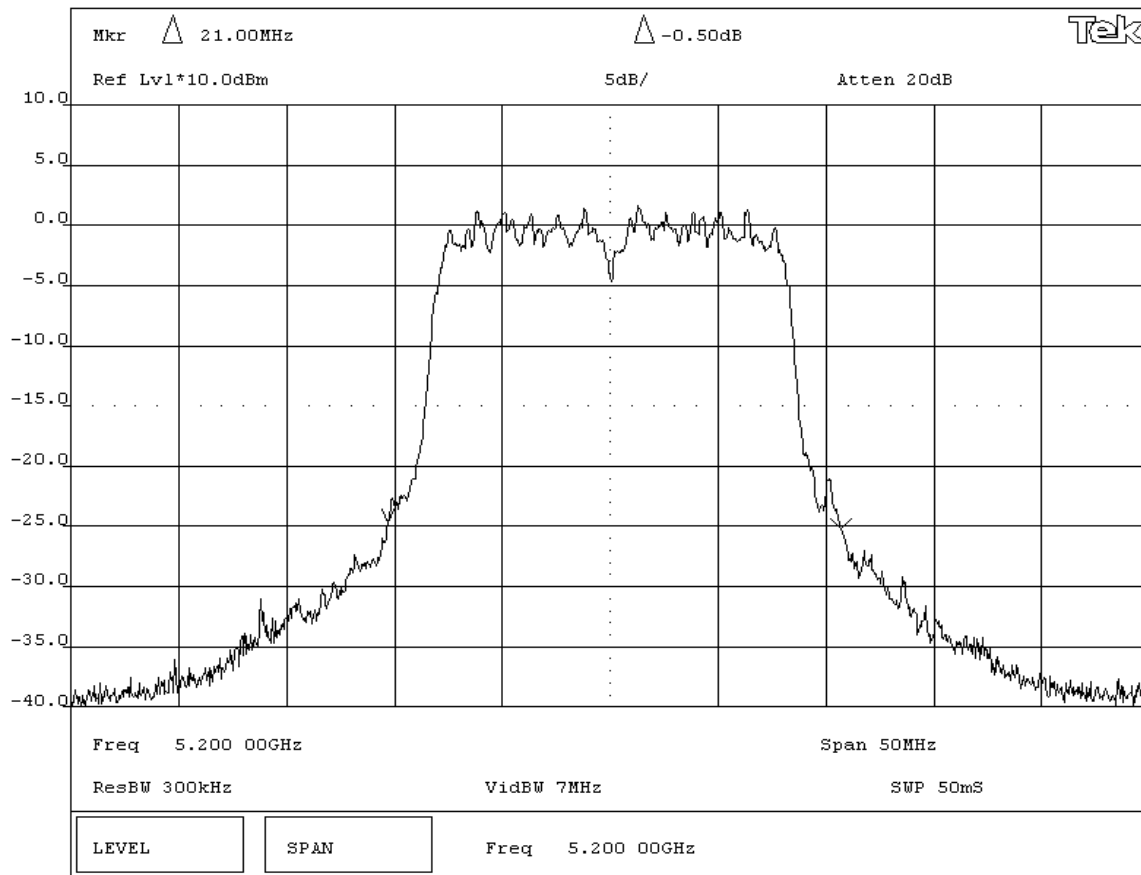
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

RESULTS	BANDWIDTH
Pass	21.0 MHz

SIGNATURE
Tested By: *Greg Kiemel*

DESCRIPTION OF TEST
Occupied Bandwidth - Mid Channel - 5.15 to 5.25 GHz Band



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	
Customer Ref. No.: N/A		Humidity: 38% RH	
		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

EUT OPERATING MODES

Modulated at 6 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD

None


REQUIREMENTS

The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

RESULTS

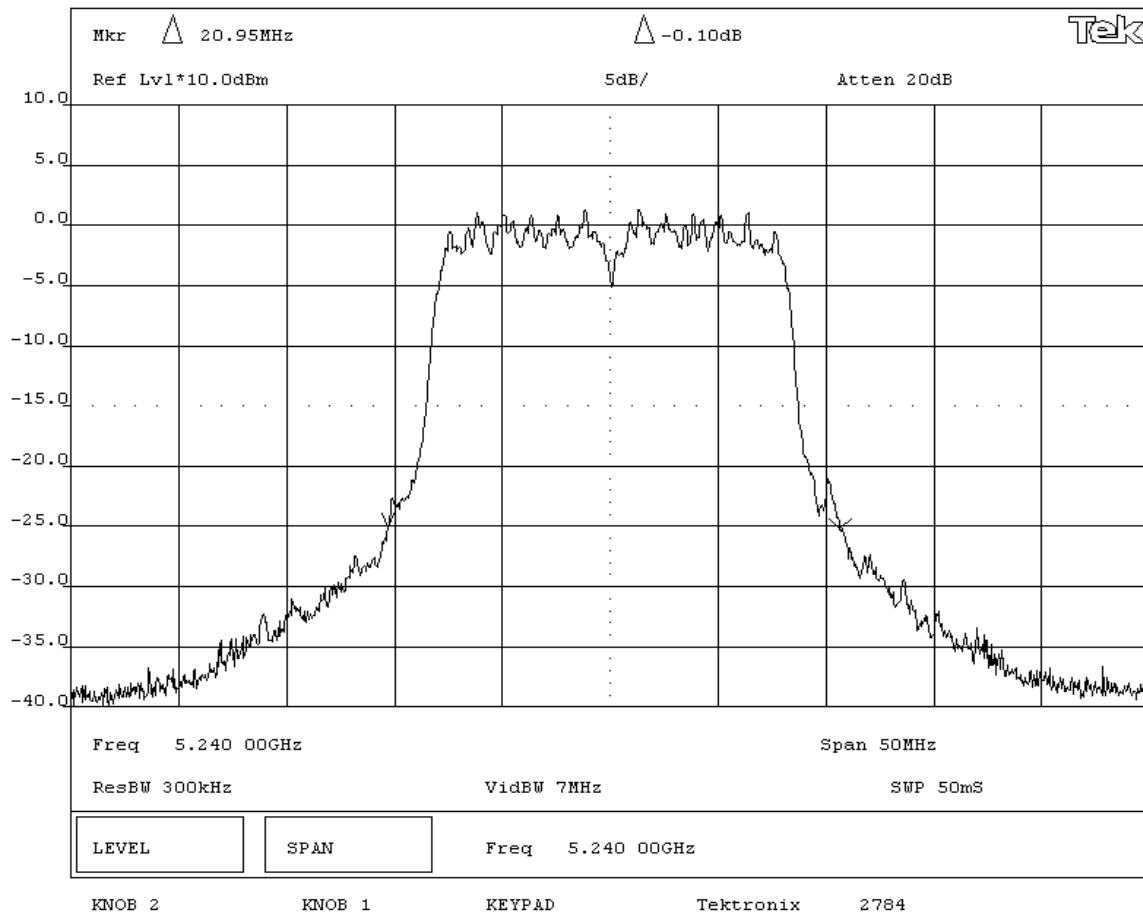
Pass	BANDWIDTH 20.95 MHz
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SIGNATURE

Tested By: 

DESCRIPTION OF TEST

Occupied Bandwidth - High Channel - 5.15 to 5.25 GHz Band



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	Humidity: 38% RH
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
Tested by: Greg Kiemel	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

EUT OPERATING MODES

Modulated at 6 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

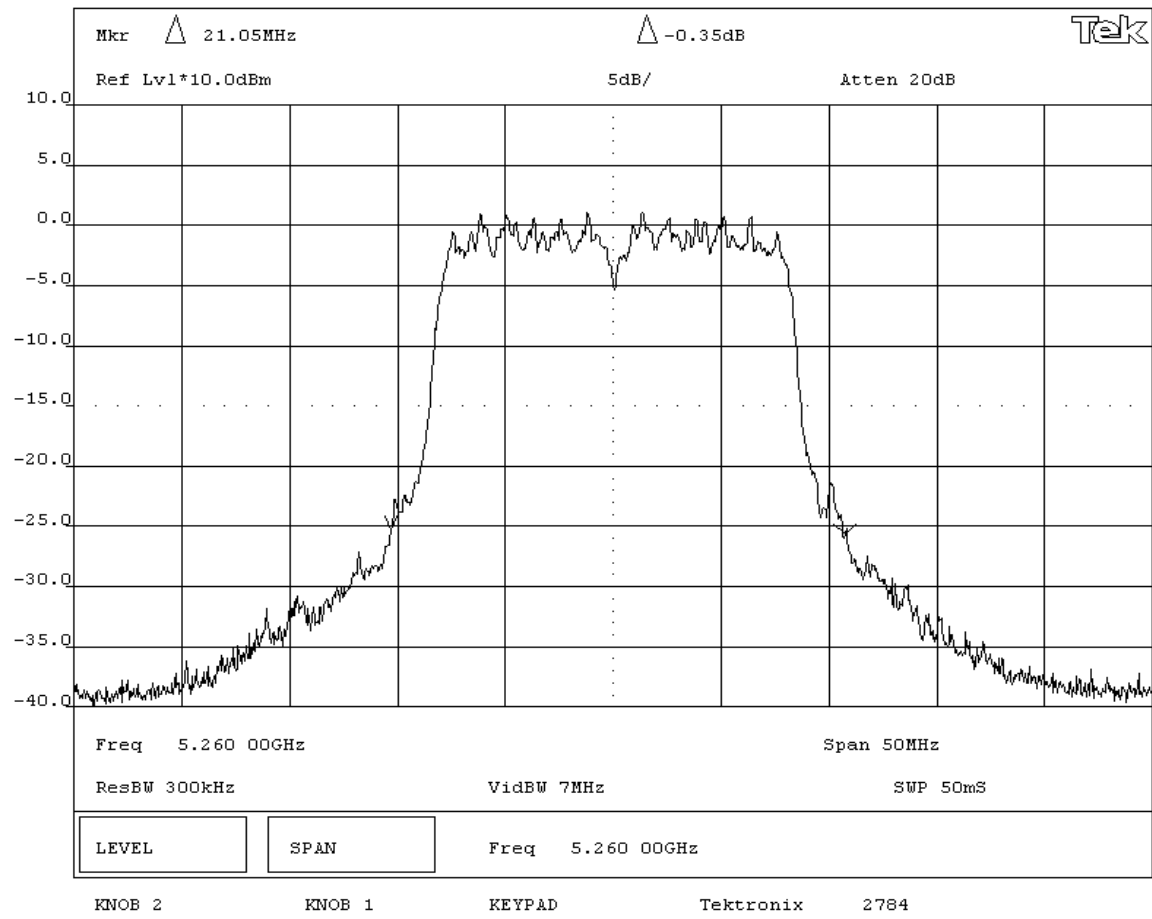
The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

RESULTS	BANDWIDTH
Pass	21.05 MHz

SIGNATURE
 Tested By: *Greg Kiemel*

DESCRIPTION OF TEST

Occupied Bandwidth - Low Channel - 5.25 to 5.35 GHz Band



NORTHWEST
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	Tested by: Greg Kiemel
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
	Humidity: 38% RH
	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

EUT OPERATING MODES

Modulated at 6 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD

None


REQUIREMENTS

The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

RESULTS	BANDWIDTH
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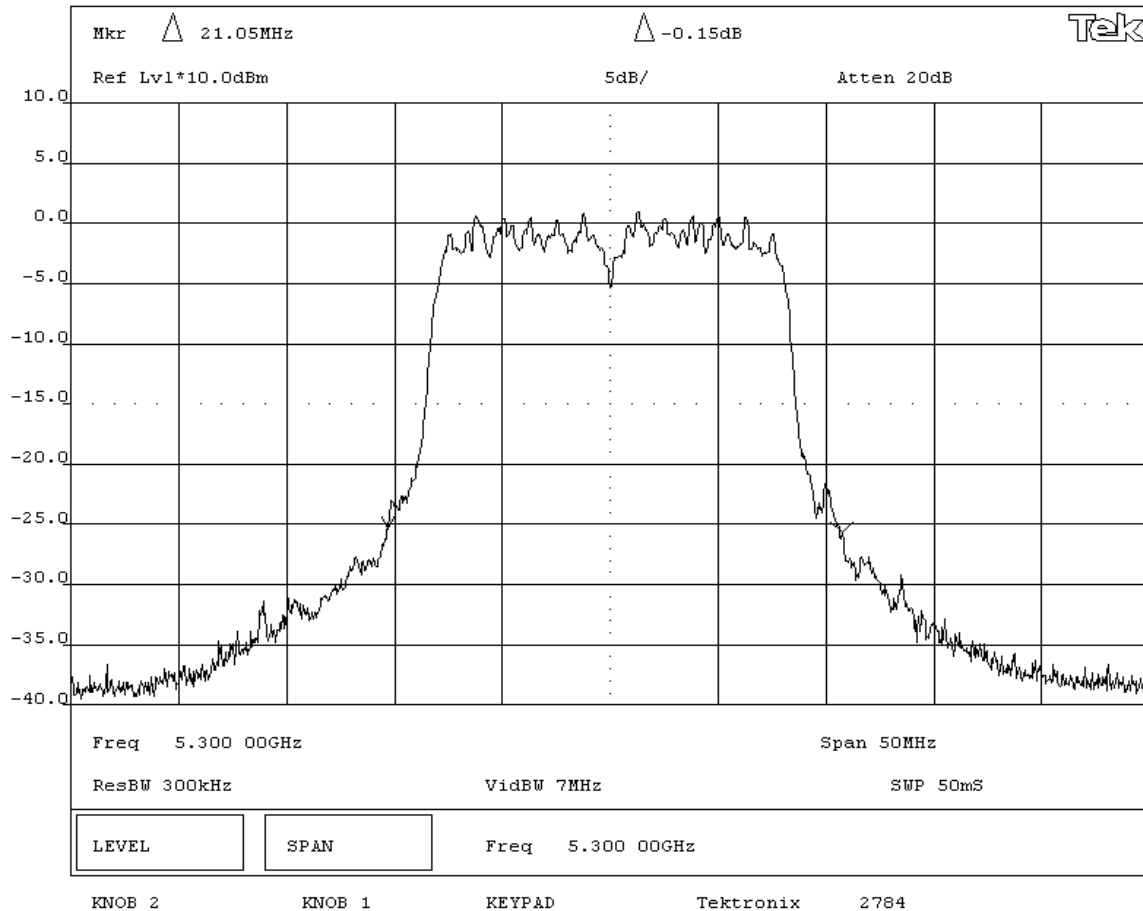
Pass 21.05 MHz

SIGNATURE

Tested By: 

DESCRIPTION OF TEST

Occupied Bandwidth - Mid Channel - 5.25 to 5.35 GHz Band



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	Tested by: Greg Kiemel
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
	Humidity: 38% RH
	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
EUT OPERATING MODES
 Modulated at 6 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD
 None

REQUIREMENTS
 The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

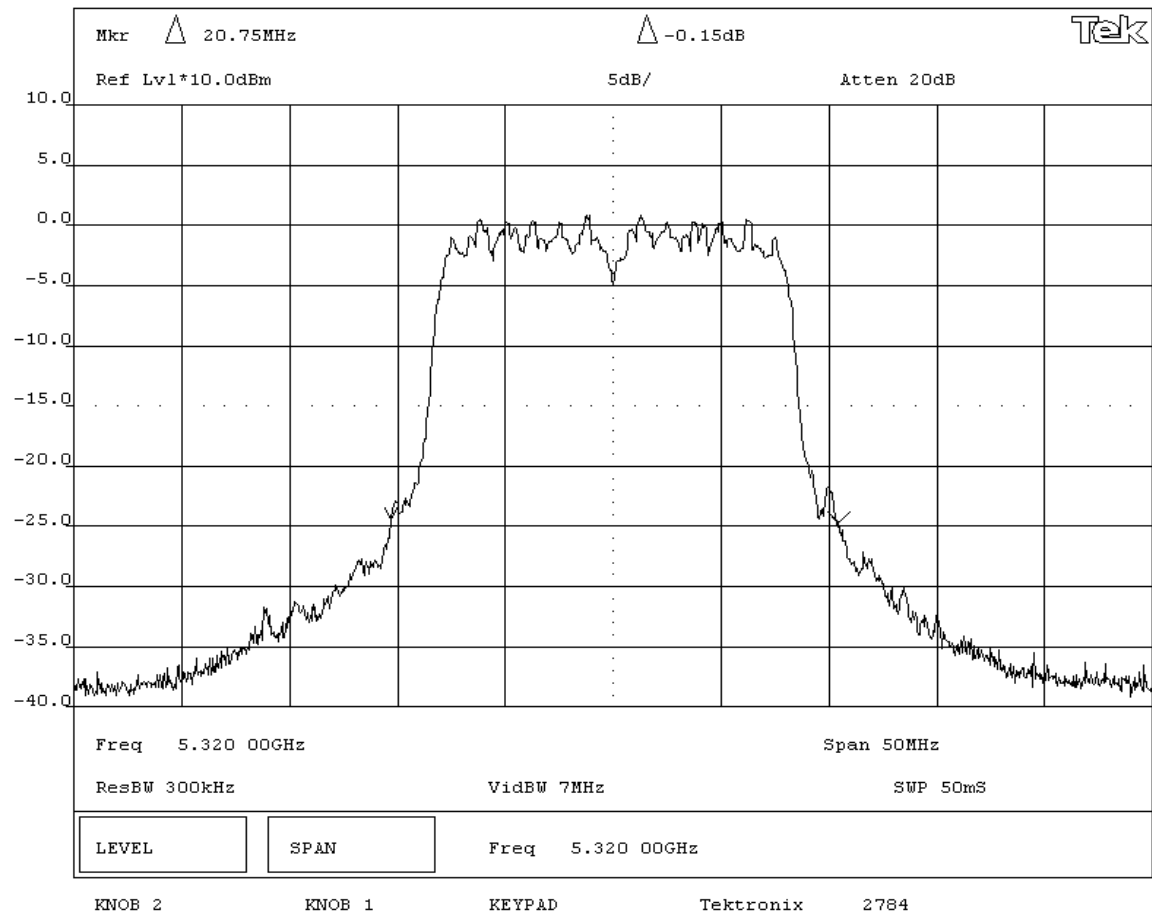
RESULTS	BANDWIDTH
Pass	20.75 MHz

SIGNATURE


 Tested By: _____

DESCRIPTION OF TEST

Occupied Bandwidth - High Channel - 5.25 to 5.35 GHz Band



NORTHWEST 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		Tested by: Greg Kiemel	
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	
		Humidity: 38% RH	
		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
EUT OPERATING MODES
 Modulated at 6 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD
 None

REQUIREMENTS
 The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

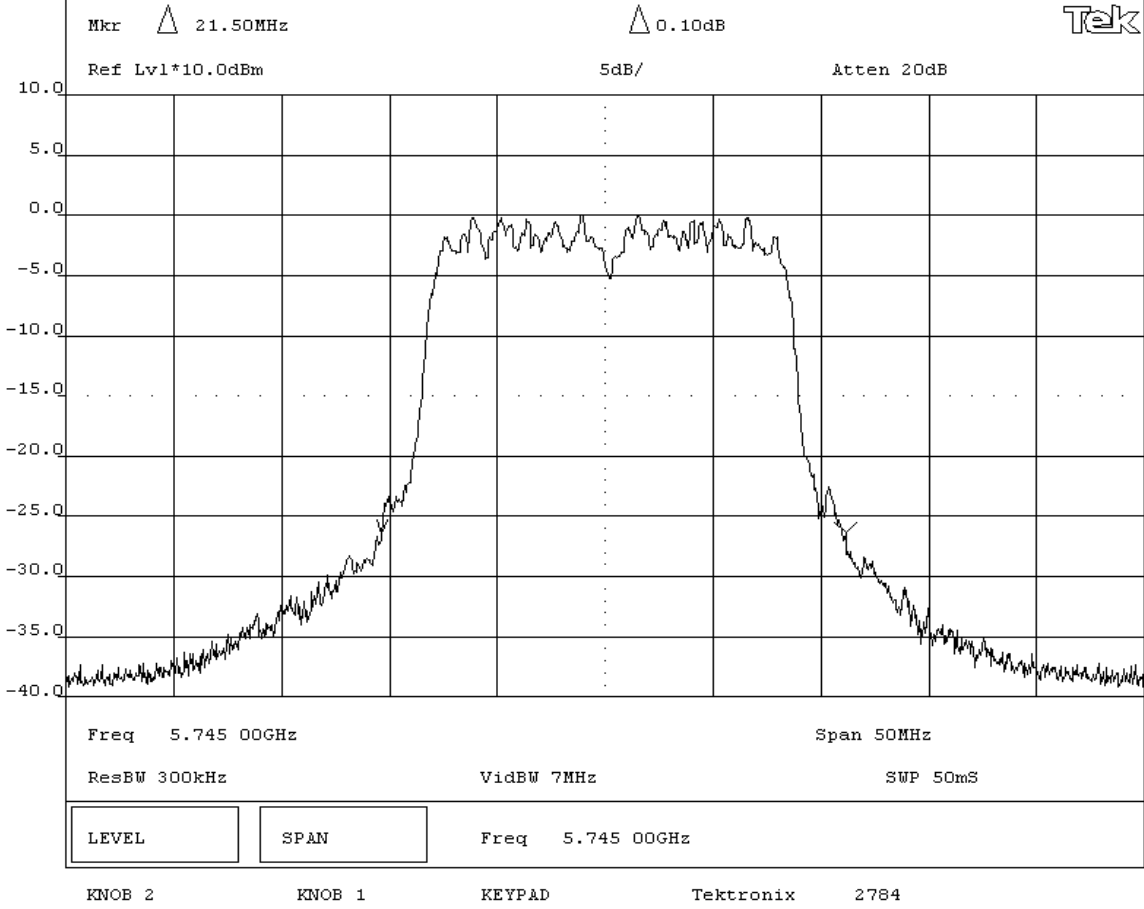
RESULTS	BANDWIDTH
Pass	21.5 MHz

SIGNATURE


 Tested By: _____

DESCRIPTION OF TEST

Occupied Bandwidth - Low Channel - 5.725 to 5.825 GHz Band



NORTHWEST
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	Tested by: Greg Kiemel
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
	Humidity: 38% RH
	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

EUT OPERATING MODES
Modulated at 6 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD
None

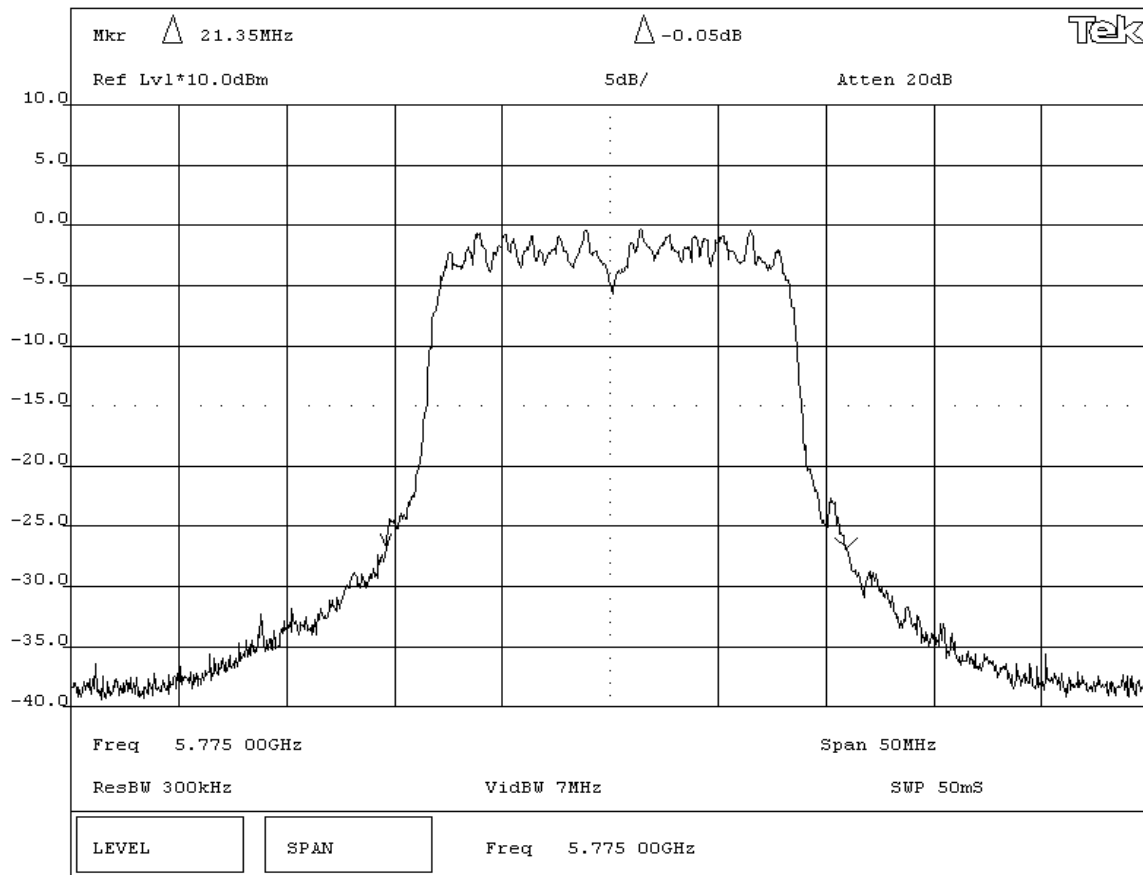
REQUIREMENTS
The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

RESULTS	BANDWIDTH
Pass	21.35 MHz

SIGNATURE

Tested By: 

DESCRIPTION OF TEST
Occupied Bandwidth - Mid Channel - 5.725 to 5.825 GHz Band



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
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
	Humidity: 38% RH
	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

EUT OPERATING MODES
Modulated at 6 Mbit. Maximum output power.

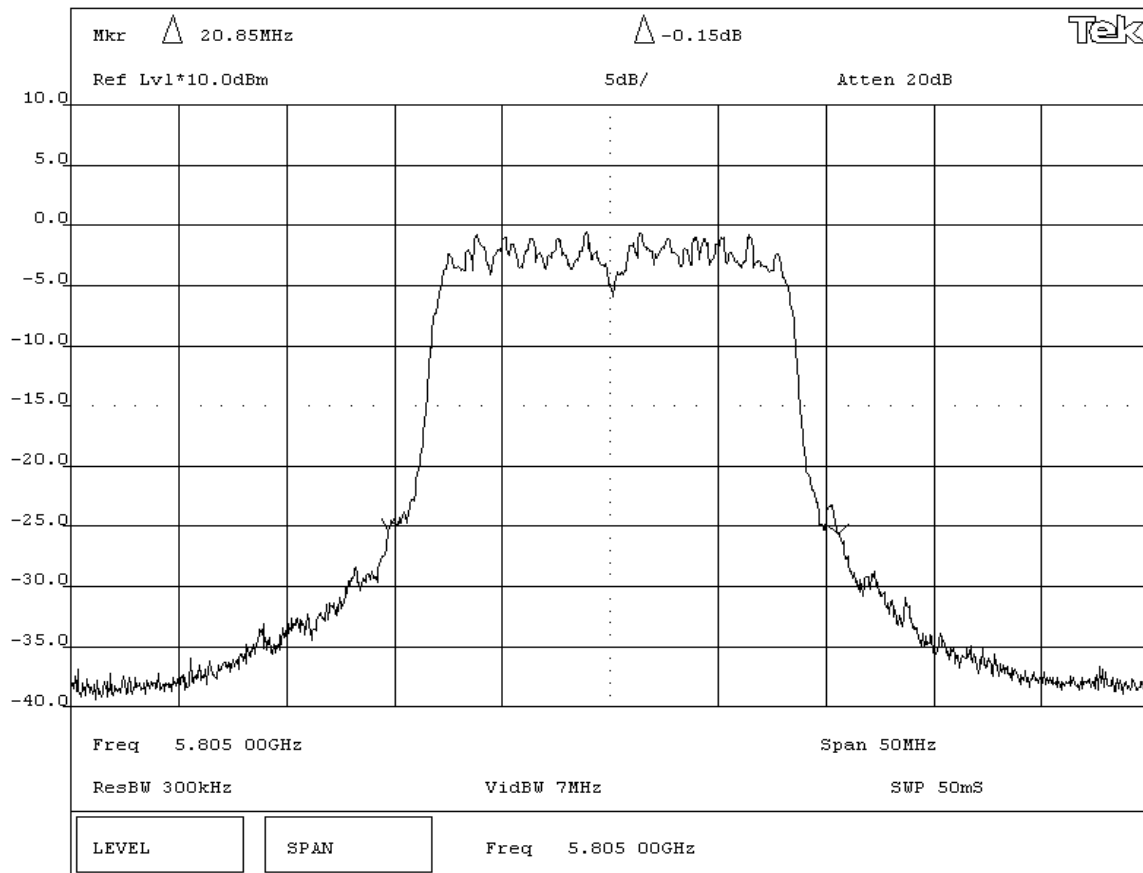
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

RESULTS	BANDWIDTH
Pass	20.85 MHz

SIGNATURE
Tested By: 

DESCRIPTION OF TEST
Occupied Bandwidth - High Channel - 5.725 to 5.825 GHz Band



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	Humidity: 38% RH
Customer Ref. No.: N/A	Tested by: Greg Kiemel
	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
EUT OPERATING MODES
 Modulated at 36 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD
 None

REQUIREMENTS
 The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

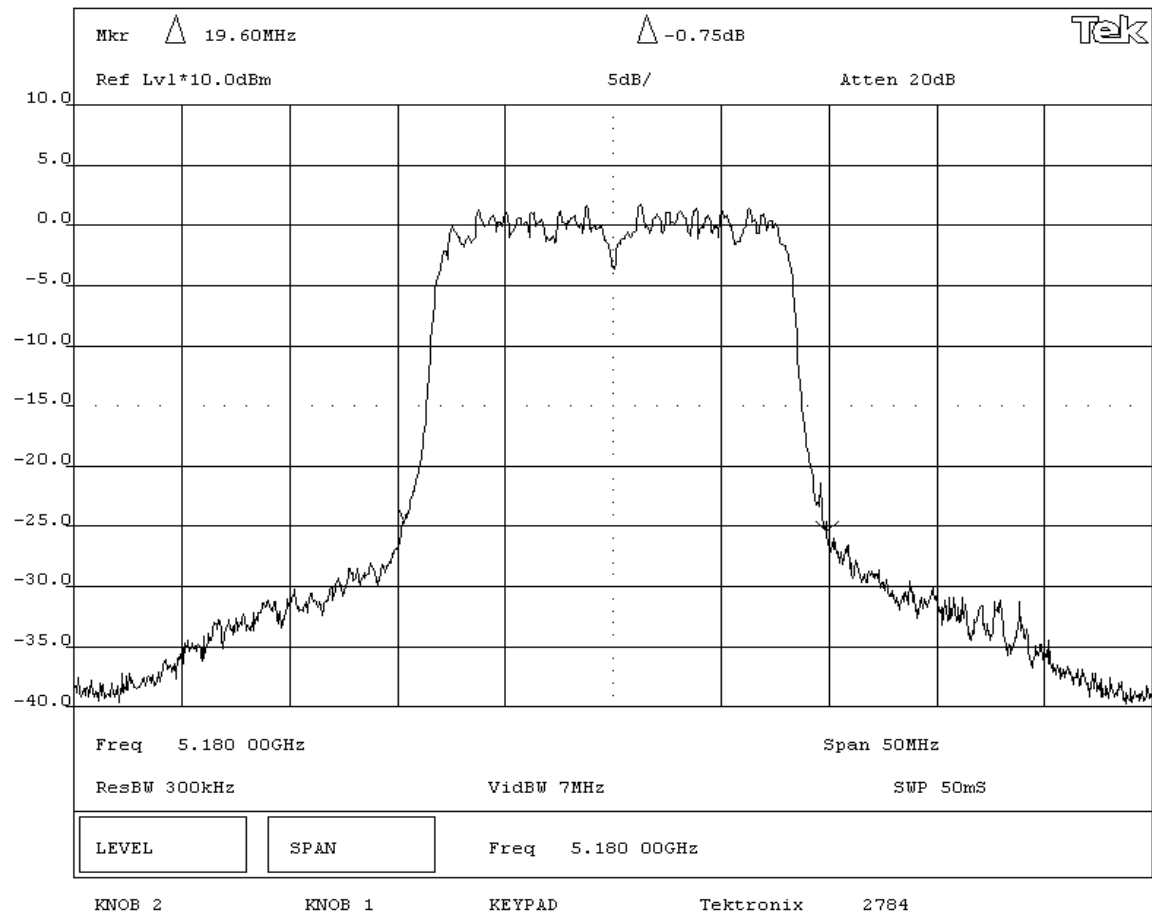
RESULTS	BANDWIDTH
Pass	19.6 MHz

SIGNATURE


 Tested By: _____

DESCRIPTION OF TEST

Emission Bandwidth (B) - Low Channel - 5.15 to 5.25 GHz Band



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	Humidity: 38% RH
Customer Ref. No.: N/A	Tested by: Greg Kiemel
	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

EUT OPERATING MODES

Modulated at 36 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD


None

REQUIREMENTS

The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

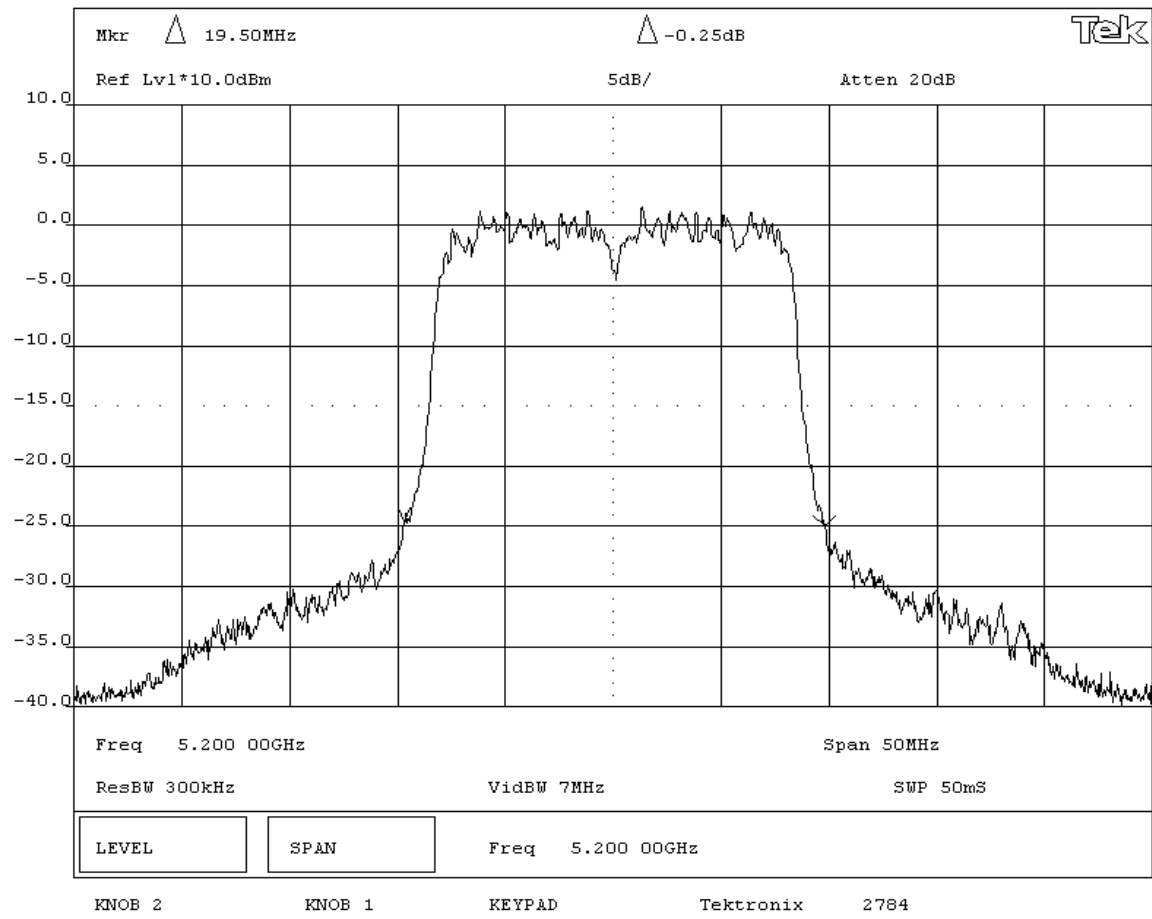
RESULTS	BANDWIDTH
Pass	19.5 MHz

SIGNATURE

Tested By: 

DESCRIPTION OF TEST

Occupied Bandwidth - Mid Channel - 5.15 to 5.25 GHz Band



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	Humidity: 38% RH
Customer Ref. No.: N/A	Tested by: Greg Kiemel
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
EUT OPERATING MODES
 Modulated at 36 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD
 None

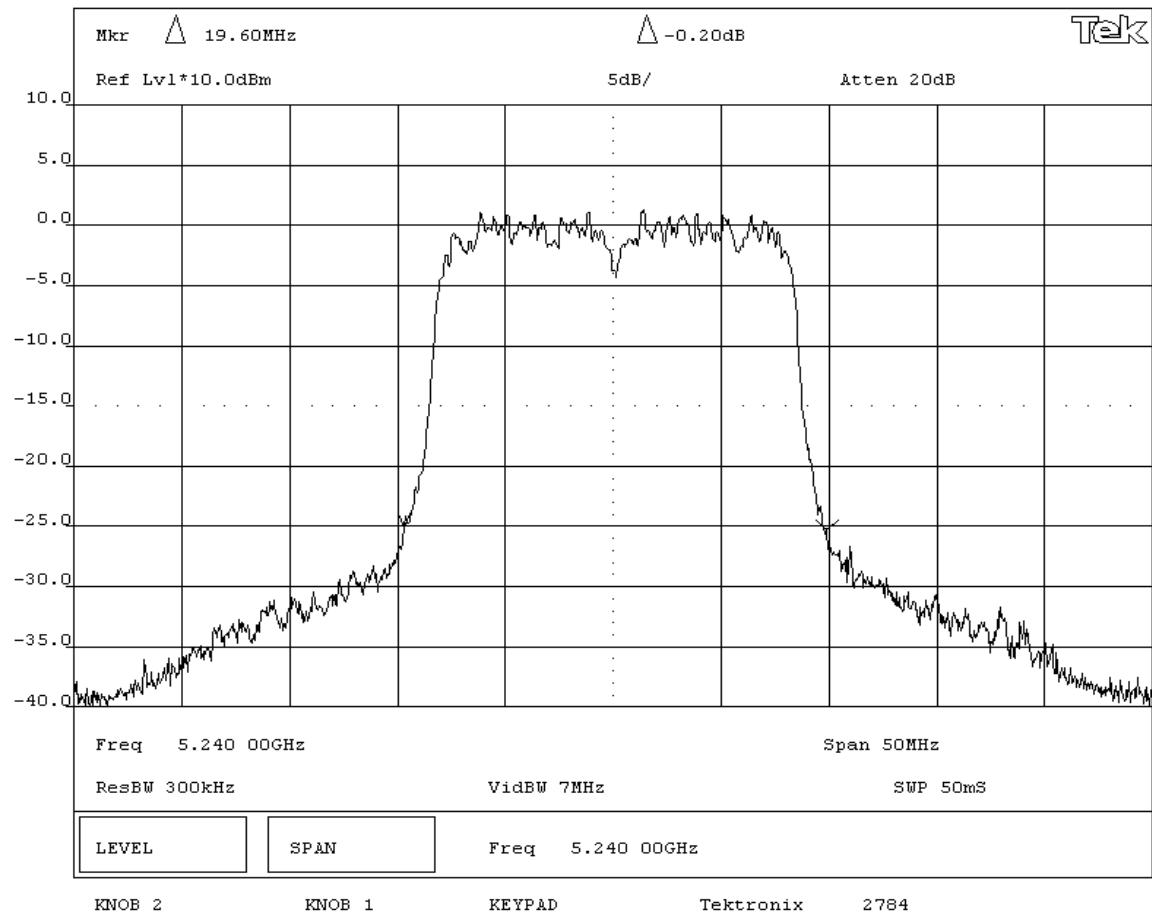
REQUIREMENTS
 The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

RESULTS	BANDWIDTH
Pass	19.60 MHz

SIGNATURE

 Tested By: _____

DESCRIPTION OF TEST
Occupied Bandwidth - High Channel - 5.15 to 5.25 GHz Band



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	Humidity: 38% RH
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
Tested by: Greg Kiemel	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

EUT OPERATING MODES

Modulated at 36 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

RESULTS BANDWIDTH

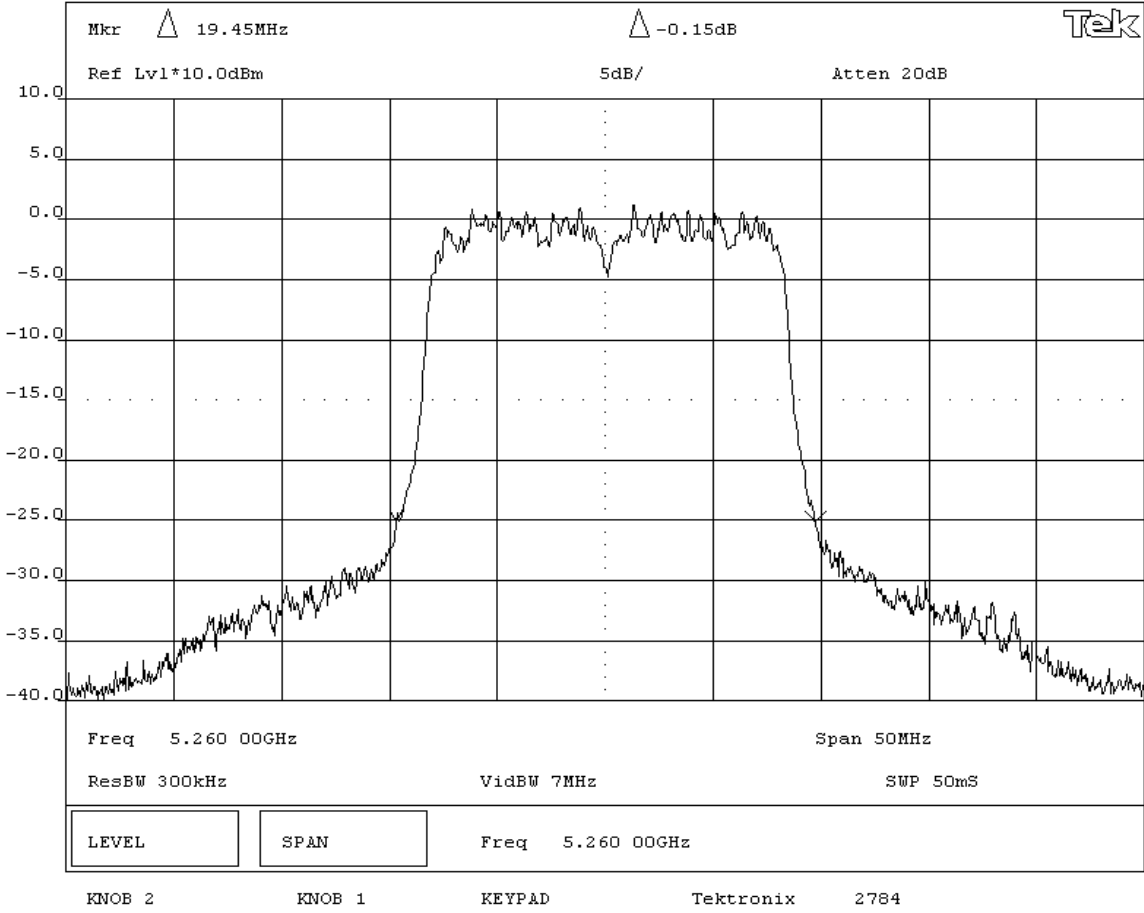
Pass 19.45 MHz

SIGNATURE

Tested By: *Greg Kiemel*

DESCRIPTION OF TEST

Occupied Bandwidth - Low 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	
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	
		Humidity: 38% RH	
		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

EUT OPERATING MODES

Modulated at 36 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD


None

REQUIREMENTS

The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

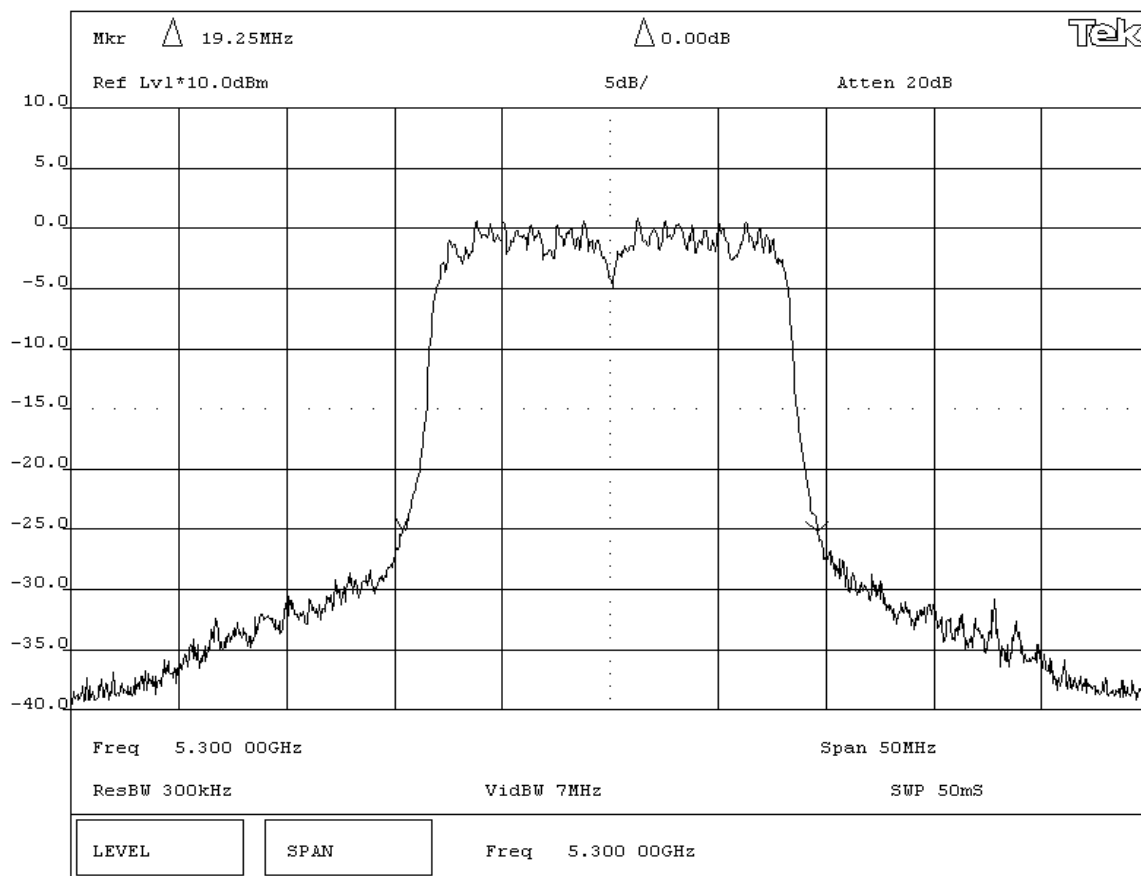
RESULTS	BANDWIDTH
Pass	19.25 MHz

SIGNATURE

Tested By: 

DESCRIPTION OF TEST

Occupied Bandwidth - Mid Channel - 5.25 to 5.35 GHz Band



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	Tested by: Greg Kiemel
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
	Humidity: 38% RH
	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
EUT OPERATING MODES
 Modulated at 36 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD
 None

REQUIREMENTS
 The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

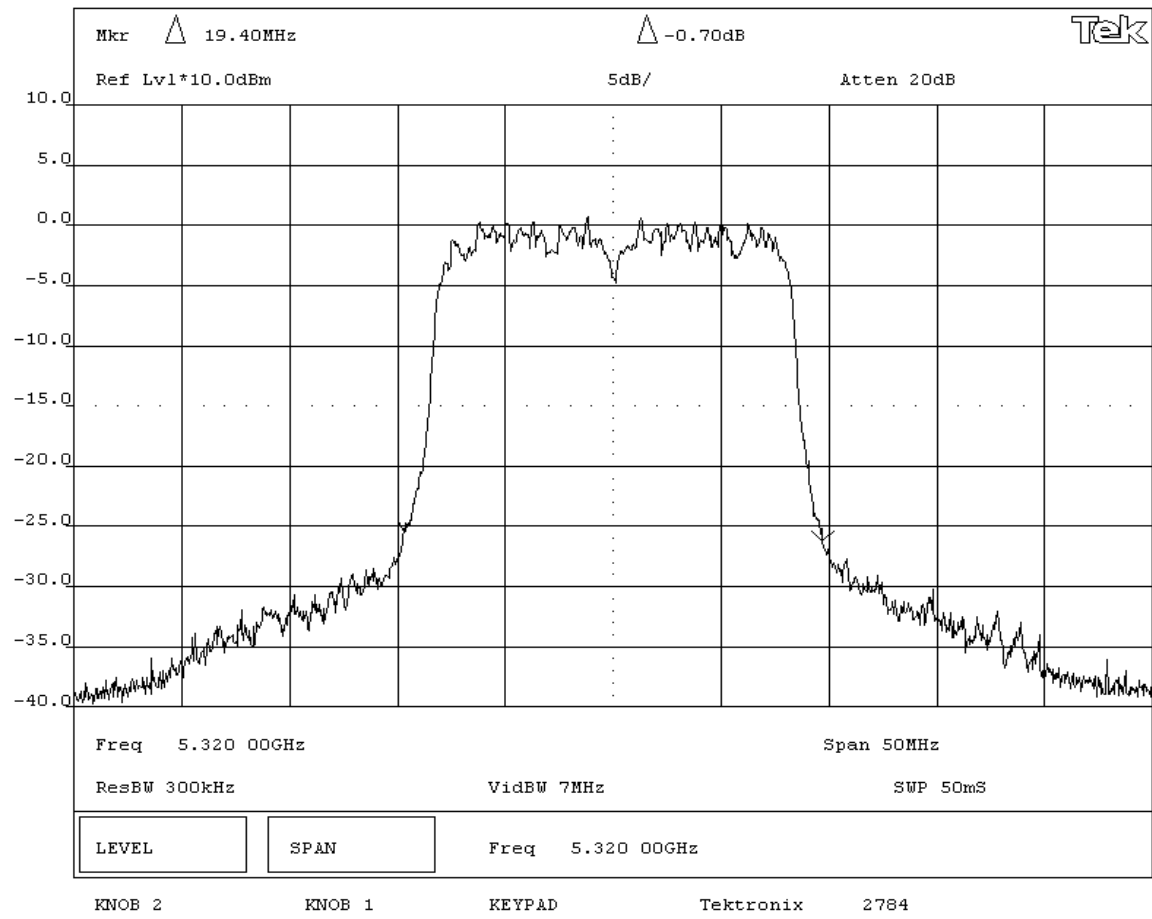
RESULTS	BANDWIDTH
Pass	19.40 MHz

SIGNATURE


 Tested By: _____

DESCRIPTION OF TEST

Occupied Bandwidth - High Channel - 5.25 to 5.35 GHz Band



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	Tested by: Greg Kiemel
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
	Humidity: 38% RH
	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
EUT OPERATING MODES
 Modulated at 36 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD
 None

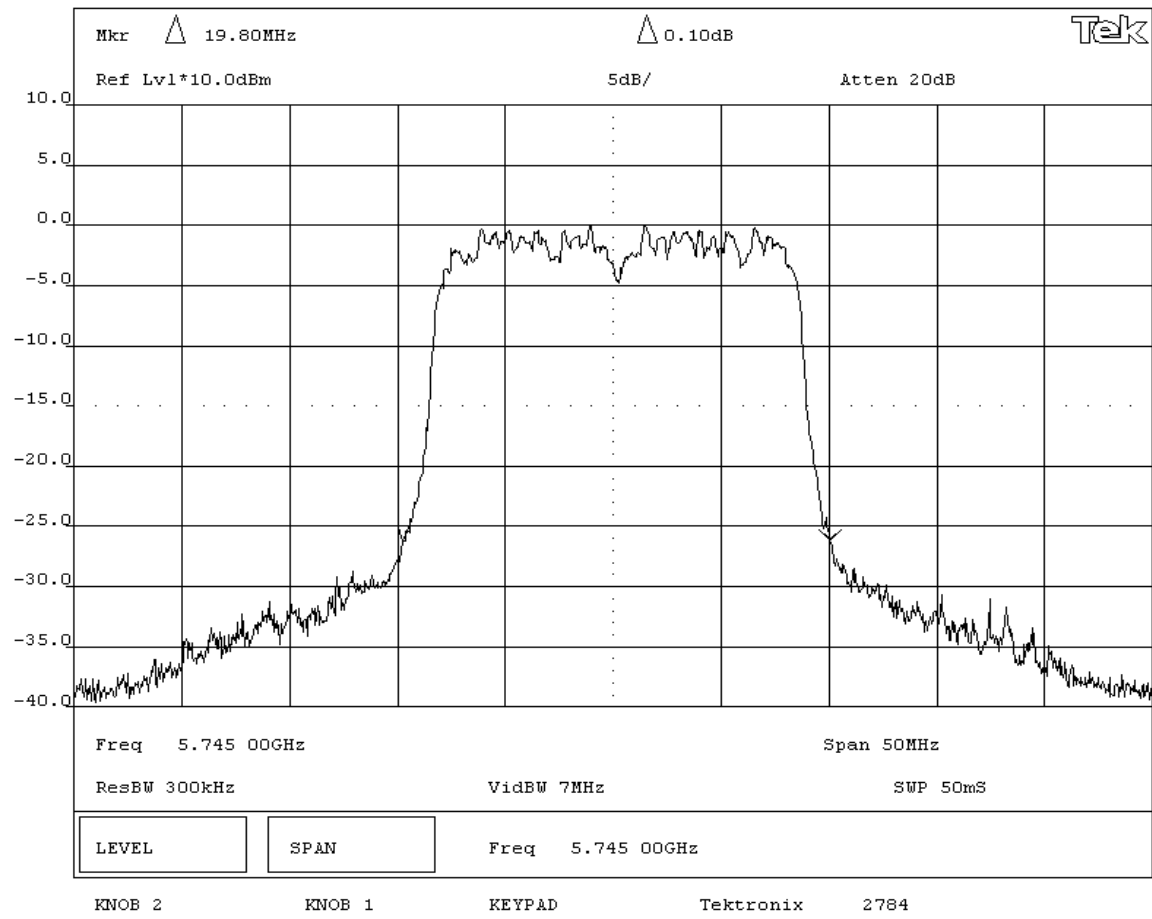
REQUIREMENTS
 The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

RESULTS	BANDWIDTH
Pass	19.80 MHz

SIGNATURE

 Tested By: _____

DESCRIPTION OF TEST
Occupied Bandwidth - Low Channel - 5.725 to 5.825 GHz Band



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		Tested by: Greg Kiemel	
Customer Ref. No.: N/A		Power: 120 V, 60 Hz	
		Humidity: 38% RH	
		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

EUT OPERATING MODES
Modulated at 36 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

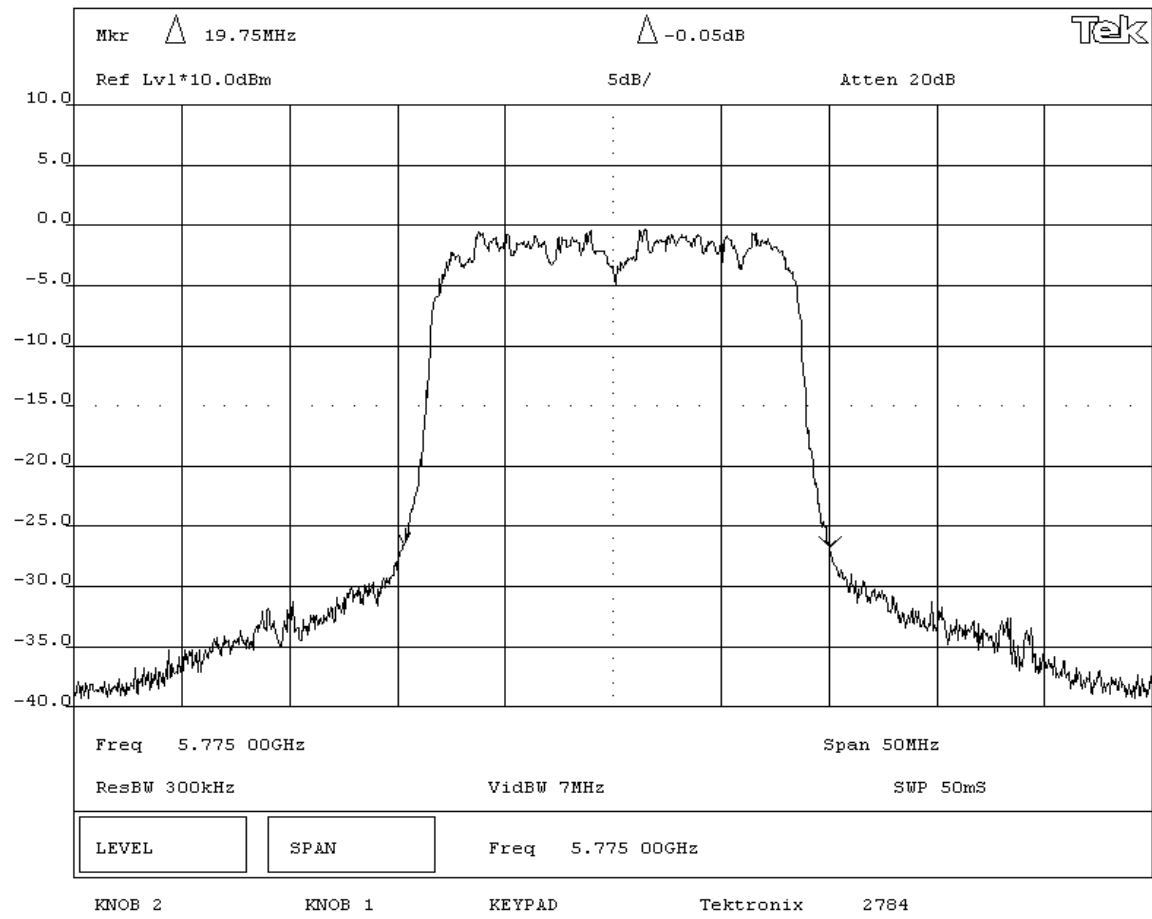
RESULTS	BANDWIDTH
Pass	19.75 MHz

SIGNATURE


 Tested By: _____

DESCRIPTION OF TEST

Occupied Bandwidth - Mid Channel - 5.725 to 5.825 GHz Band



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	Humidity: 38% RH
Customer Ref. No.: N/A	Tested by: Greg Kiemel
	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
EUT OPERATING MODES
 Modulated at 36 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD
 None

REQUIREMENTS
 The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

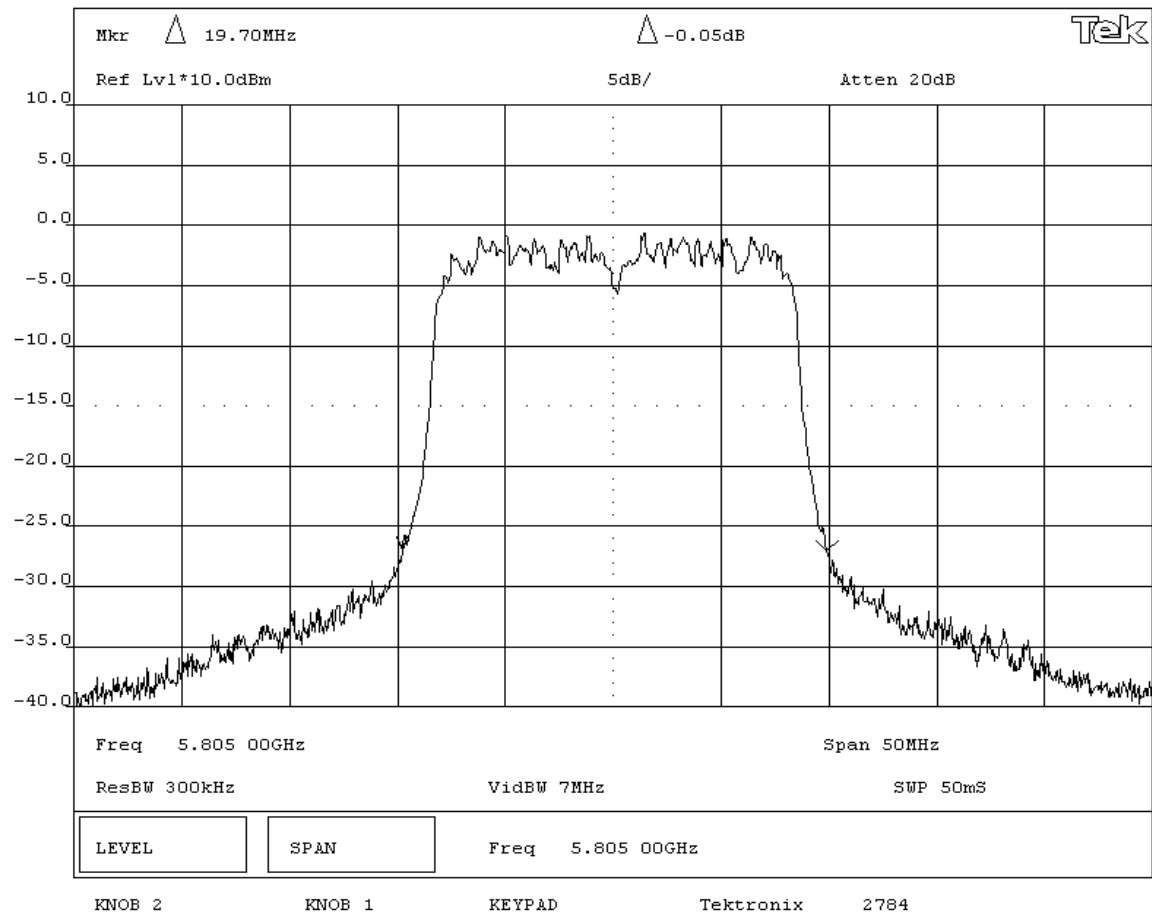
RESULTS	BANDWIDTH
Pass	19.70 MHz

SIGNATURE


 Tested By: _____

DESCRIPTION OF TEST

Occupied Bandwidth - High Channel - 5.725 to 5.825 GHz Band



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	Tested by: Greg Kiemel
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
	Humidity: 38% RH
	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

EUT OPERATING MODES

Modulated at 54 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD

None


REQUIREMENTS

The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

RESULTS BANDWIDTH

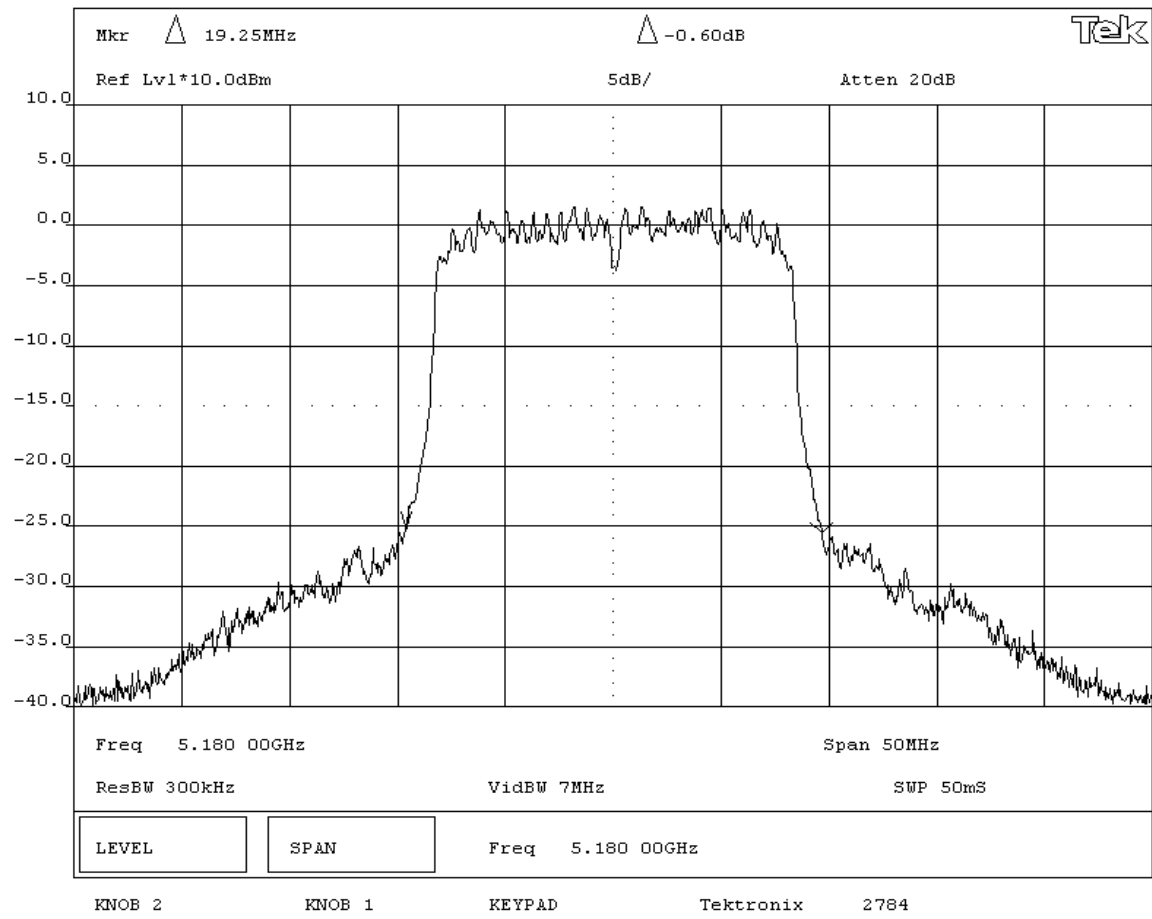
Pass 19.25 MHz

SIGNATURE

Tested By: 

DESCRIPTION OF TEST

Emission Bandwidth (B) - Low Channel - 5.15 to 5.25 GHz Band



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		Tested by: Greg Kiemel	
Customer Ref. No.: N/A		Humidity: 38% RH	
		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

EUT OPERATING MODES

Modulated at 54 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

RESULTS	BANDWIDTH
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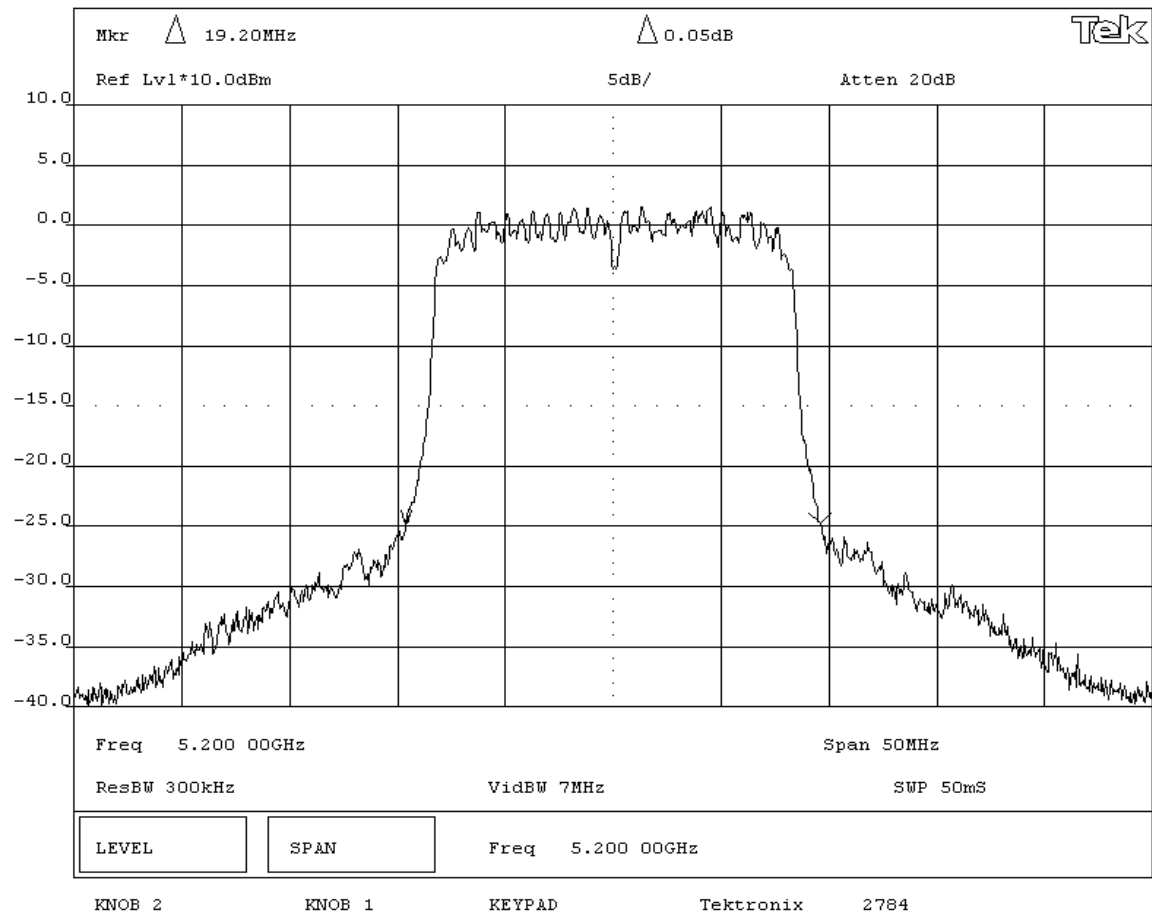
Pass 19.20 MHz

SIGNATURE

Tested By: *Greg Kiemel*

DESCRIPTION OF TEST

Occupied Bandwidth - Mid Channel - 5.15 to 5.25 GHz Band



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	Tested by: Greg Kiemel
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
	Humidity: 38% RH
	Job Site: EV06

Specification: 47 CFR 15.407(a)(1)-(3)	Year: 2002	Method: DA 02-2138, ANSI C63.4	Year: 2002, 2001
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SAMPLE CALCULATIONS

COMMENTS

Tested in CV60 Computer

EUT OPERATING MODES

Modulated at 54 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

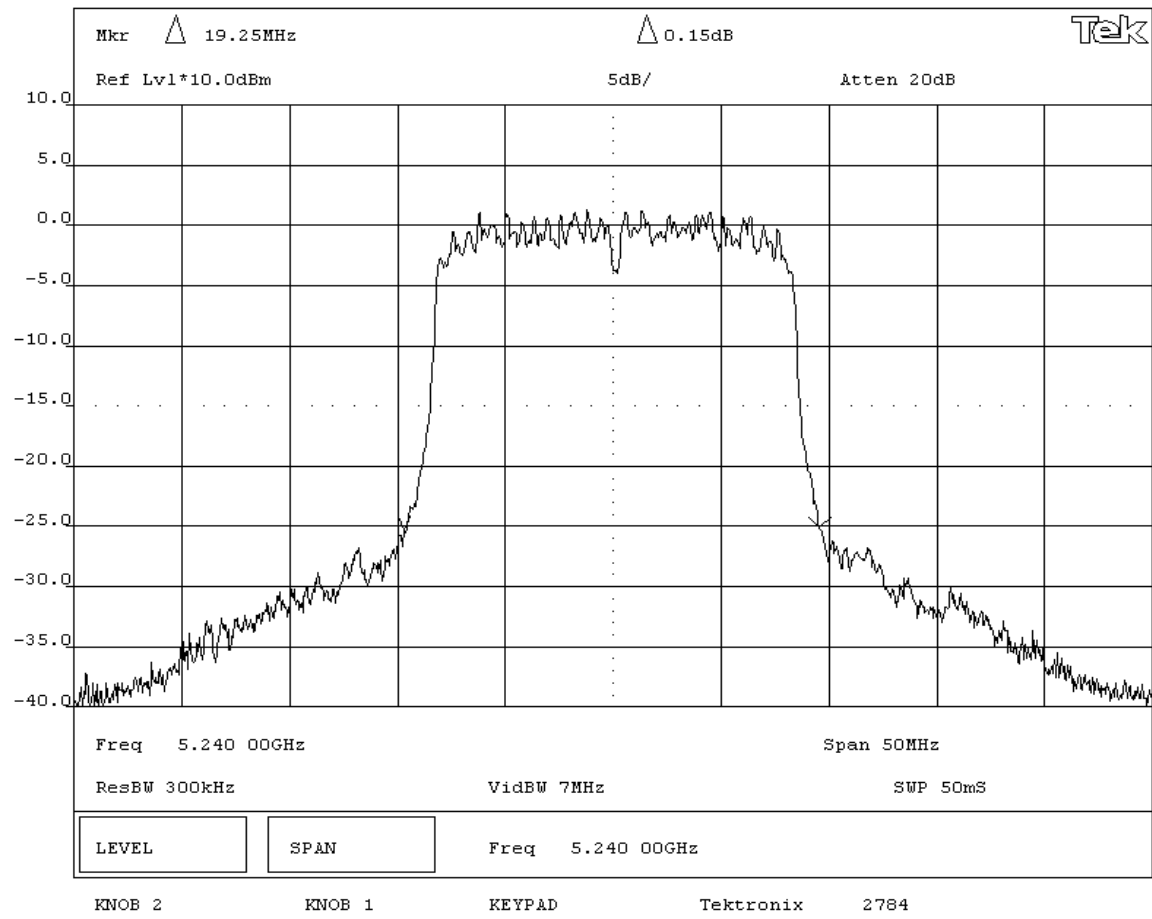
RESULTS	BANDWIDTH
Pass	19.25 MHz

SIGNATURE

Tested By: *Greg Kiemel*

DESCRIPTION OF TEST

Occupied Bandwidth - High Channel - 5.15 to 5.25 GHz Band



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	Humidity: 38% RH
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
Tested by: Greg Kiemel	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
EUT OPERATING MODES
 Modulated at 54 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD
 None

REQUIREMENTS
 The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

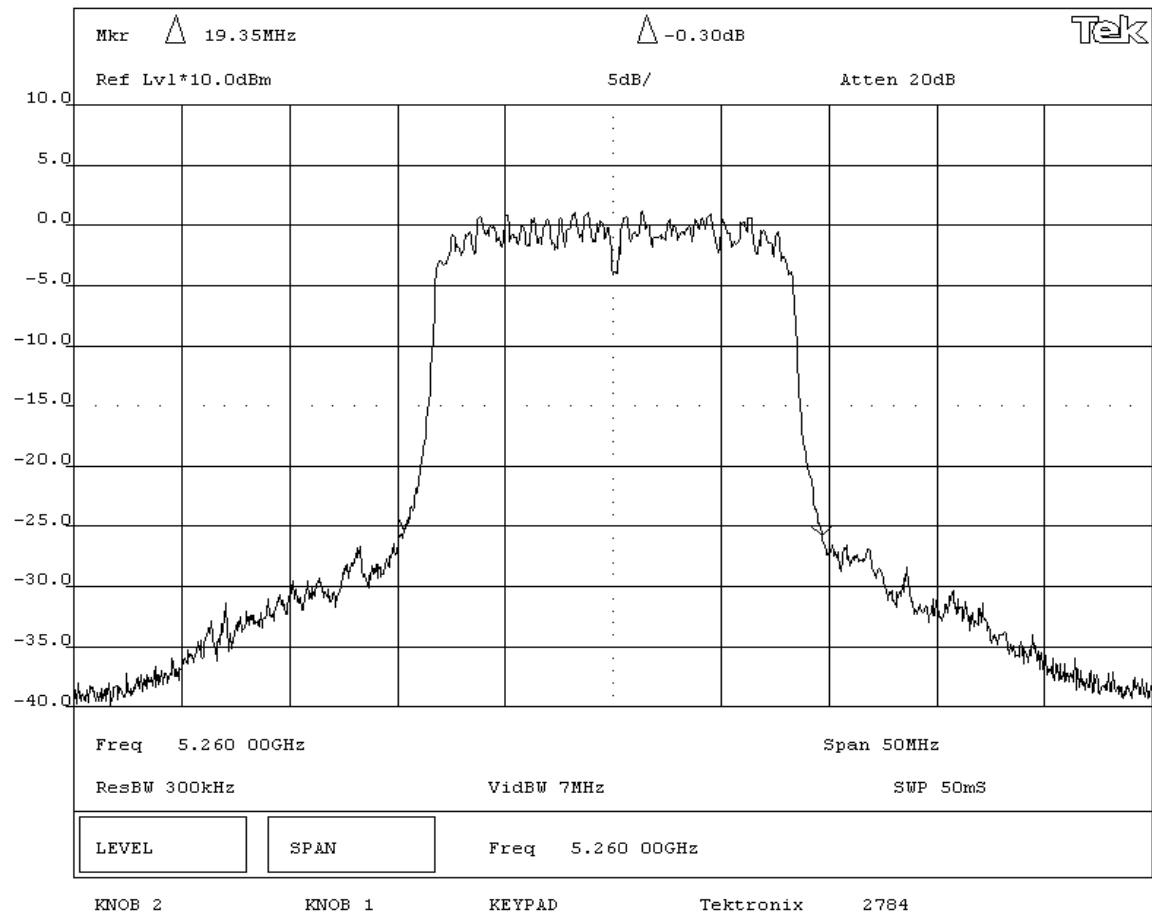
RESULTS	BANDWIDTH
Pass	19.35 MHz

SIGNATURE


 Tested By: _____

DESCRIPTION OF TEST

Occupied Bandwidth - Low Channel - 5.25 to 5.35 GHz Band



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	
Customer Ref. No.: N/A		Humidity: 38% RH	
		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

EUT OPERATING MODES
Modulated at 54 Mbit. Maximum output power.

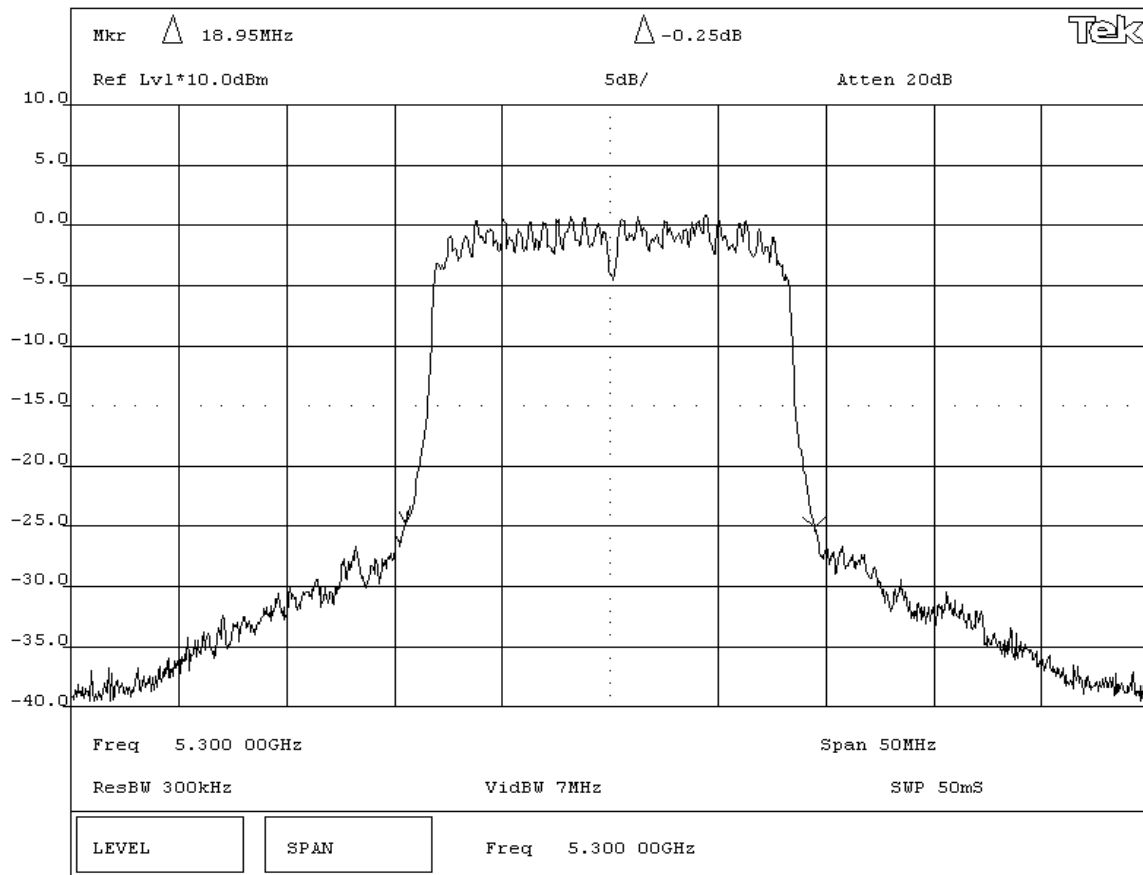
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

RESULTS	BANDWIDTH
Pass	18.95 MHz

SIGNATURE
 Tested By: _____

DESCRIPTION OF TEST
Occupied Bandwidth - Mid Channel - 5.25 to 5.35 GHz Band



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	
Customer Ref. No.: N/A		Humidity: 38% RH	
		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

EUT OPERATING MODES
Modulated at 54 Mbit. Maximum output power.

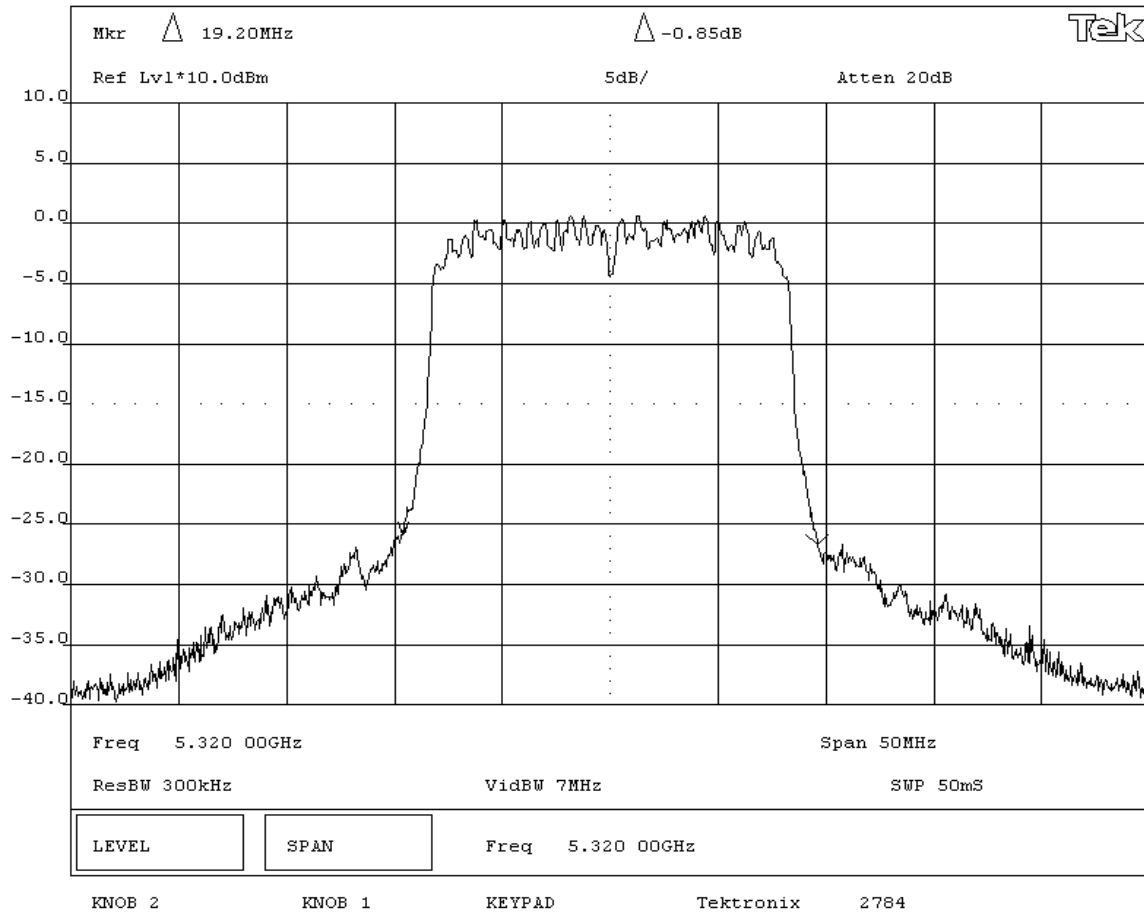
DEVIATIONS FROM TEST STANDARD
None

REQUIREMENTS
The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

RESULTS	BANDWIDTH
Pass	19.20 MHz

SIGNATURE
Tested By: 

DESCRIPTION OF TEST
Occupied Bandwidth - High Channel - 5.25 to 5.35 GHz Band



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
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
	Humidity: 38% RH
	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
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SAMPLE CALCULATIONS

COMMENTS

Tested in CV60 Computer

EUT OPERATING MODES

Modulated at 54 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD


None

REQUIREMENTS

The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

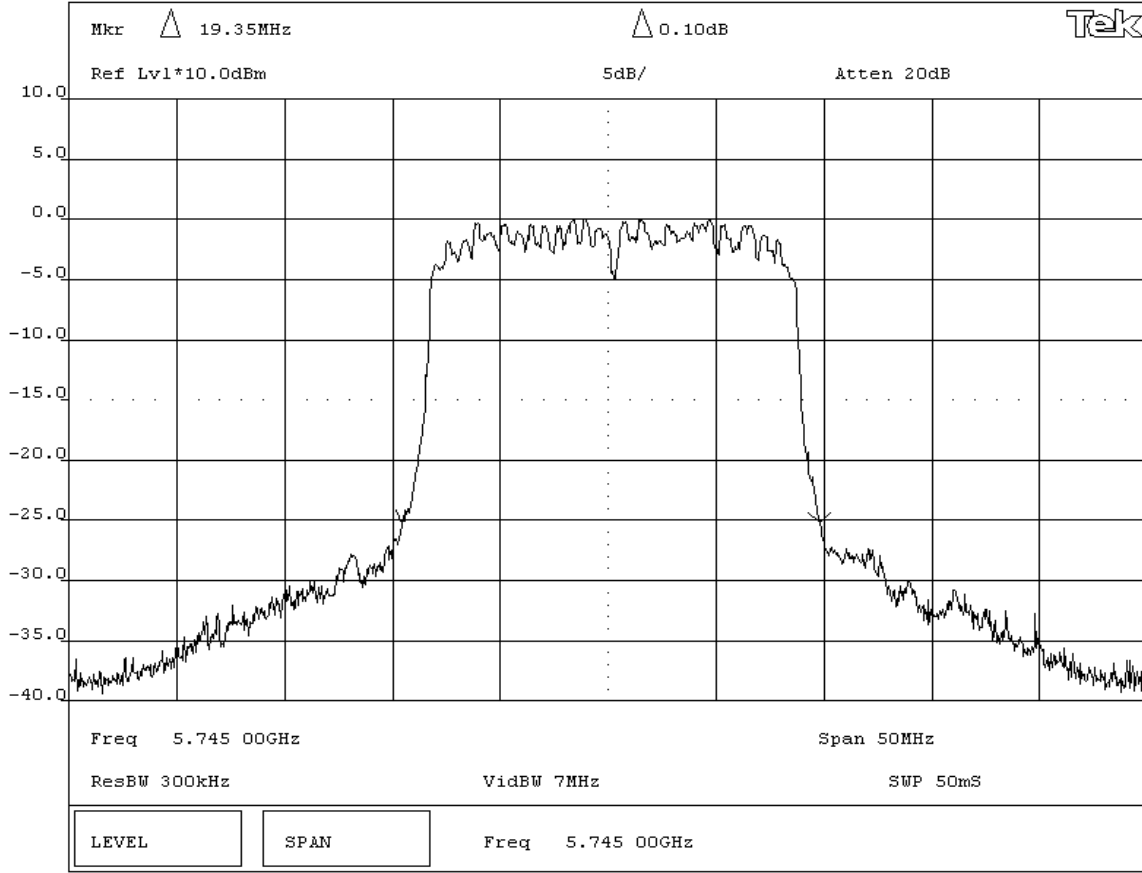
RESULTS	BANDWIDTH
Pass	19.35 MHz

SIGNATURE

Tested By: 

DESCRIPTION OF TEST

Occupied Bandwidth - Low Channel - 5.725 to 5.825 GHz Band



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	Tested by: Greg Kiemel
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
	Humidity: 38% RH
	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

EUT OPERATING MODES

Modulated at 54 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD


None

REQUIREMENTS

The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

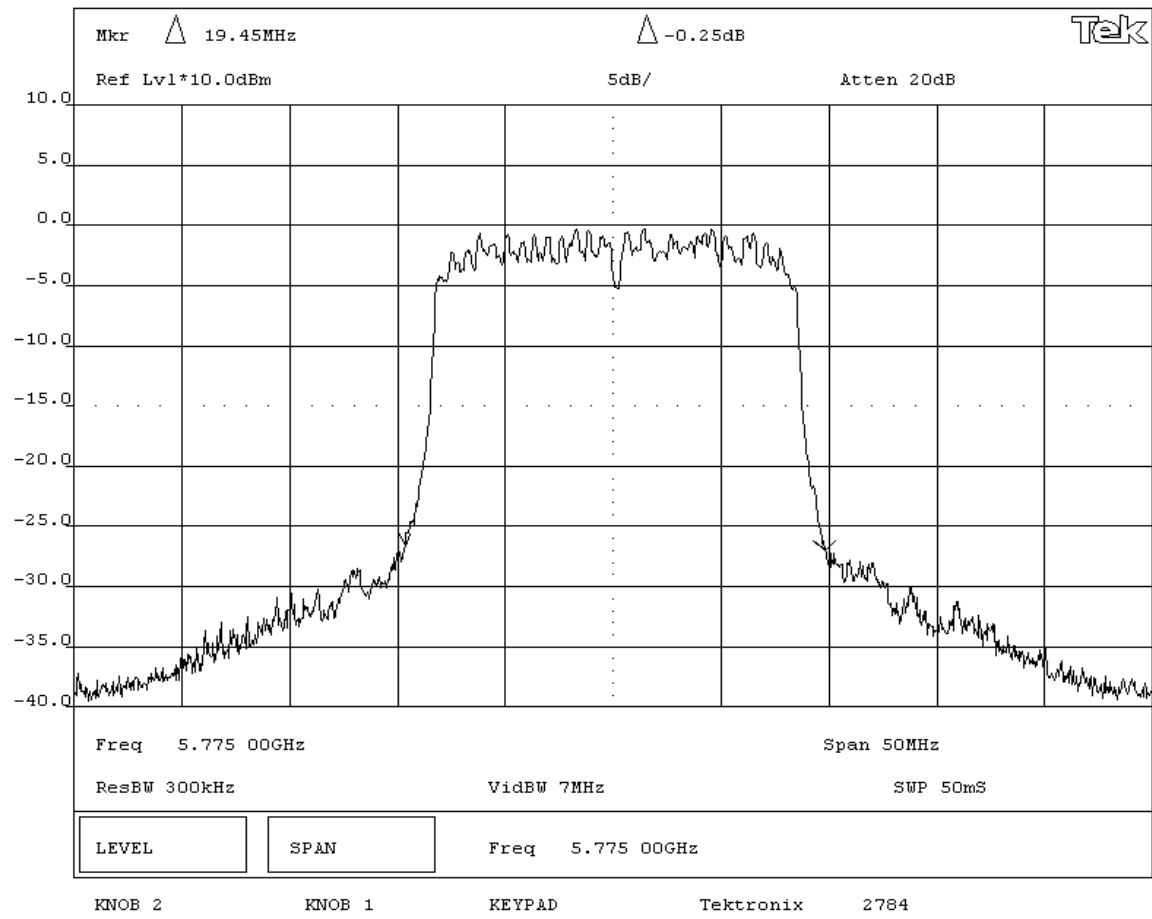
RESULTS	BANDWIDTH
Pass	19.45 MHz

SIGNATURE

Tested By: 

DESCRIPTION OF TEST

Occupied Bandwidth - Mid Channel - 5.725 to 5.825 GHz Band



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	Tested by: Greg Kiemel
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
	Humidity: 38% RH
	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
EUT OPERATING MODES
 Modulated at 54 Mbit. Maximum output power.

DEVIATIONS FROM TEST STANDARD
 None

REQUIREMENTS
 The emission bandwidth shall be determined by measuring the 26 dB bandwidth of the modulated carrier using measurement instrumentation employing a peak detector and a RBW approximately equal to 1% of the emission bandwidth.

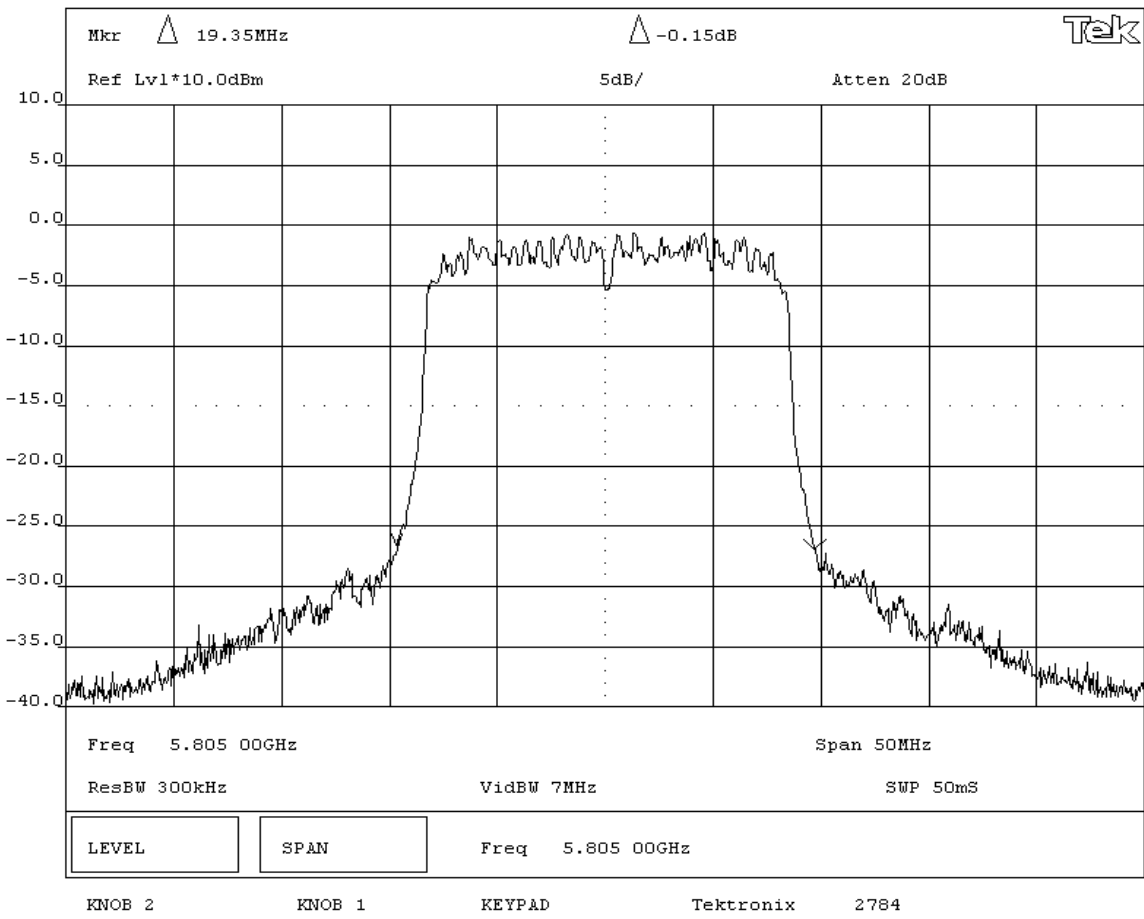
RESULTS	BANDWIDTH
Pass	19.35 MHz

SIGNATURE


 Tested By: _____

DESCRIPTION OF TEST

Occupied Bandwidth - High Channel - 5.725 to 5.825 GHz Band





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
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Description

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 $4 \text{ dBm} + 10 \log B$, 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 $11 \text{ dBm} + 10 \log B$, 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 $17 \text{ dBm} + 10 \log B$, 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.

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 $\geq 1/T$
- Sample detector mode because the bin width (span / number of spectral points) < 0.5 RBW.
- 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:



EUT:	802MIAG-CV60	Work Order:	ITRM0041
Serial Number:	002-032	Date:	09/27/04
Customer:	Intermec Corporation	Temperature:	72F
Attendees:	None	Humidity:	38% RH
Customer Ref. No.:	N/A	Tested by:	Greg Kiemel
		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 data rates and transmit channels.

DEVIATIONS FROM TEST STANDARD
None

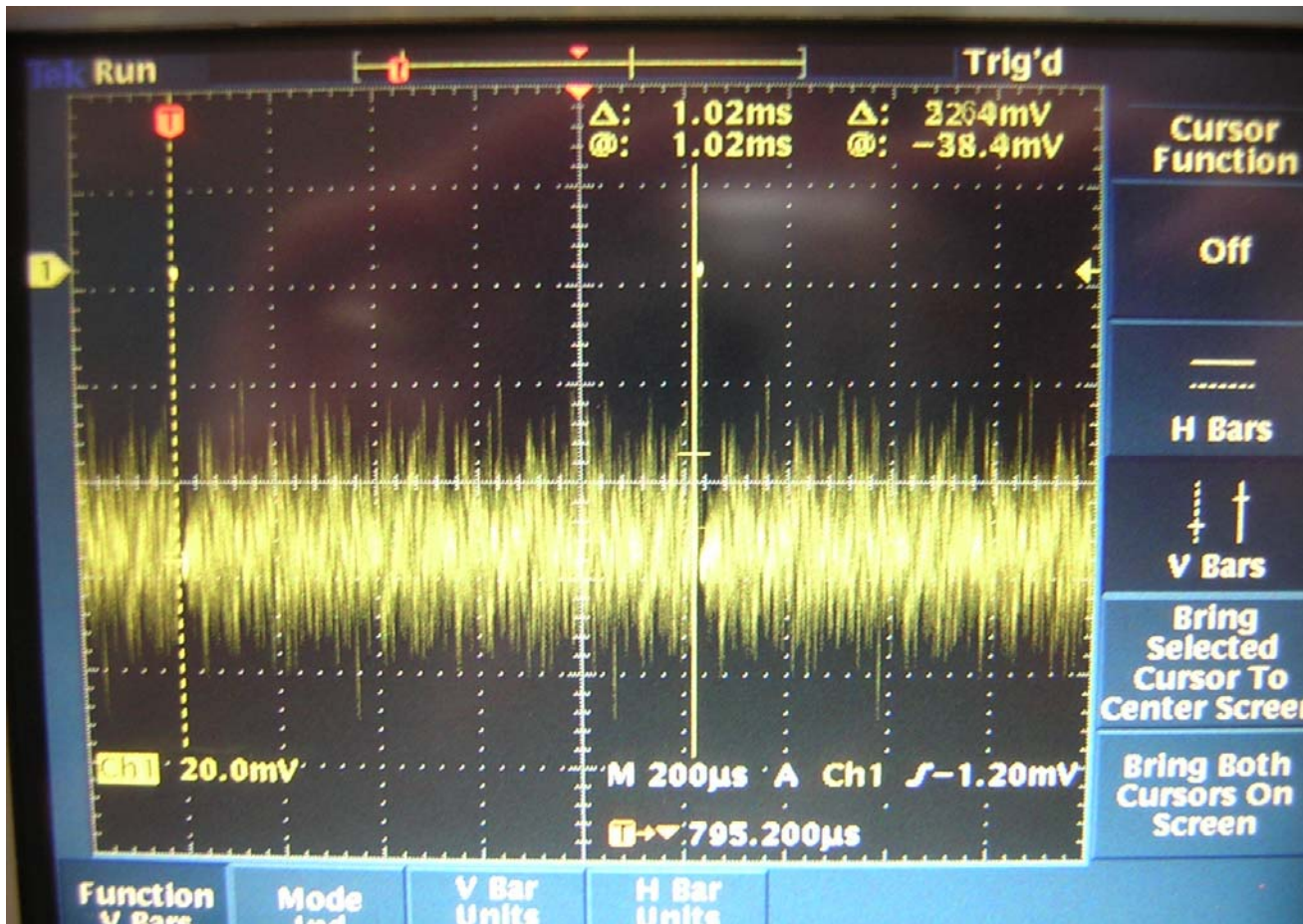
REQUIREMENTS
Public Notice DA 02-2138 allows averaging across the transmission pulse duration (T) - even if it is longer than 30/B (where B = 26 dB emission bandwidth of the signal). The value of T is required to determine the method of measuring Peak Transmit Power.

RESULTS	Value of T
Pass	1.02 mS

SIGNATURE

Tested By: *Greg Kiemel*

DESCRIPTION OF TEST
Transmission Pulse Duration (T)



NORTHWEST

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	Humidity:	38% RH
Customer Ref. No.:	N/A	Tested by:	Greg Kiemel
		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 data rates and transmit channels.

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Public Notice DA 02-2138 allows averaging across the transmission pulse duration (T) - even if it is longer than 30/B (where B = 26 dB emission bandwidth of the signal). The value of T is required to determine the method of measuring Peak Transmit Power.

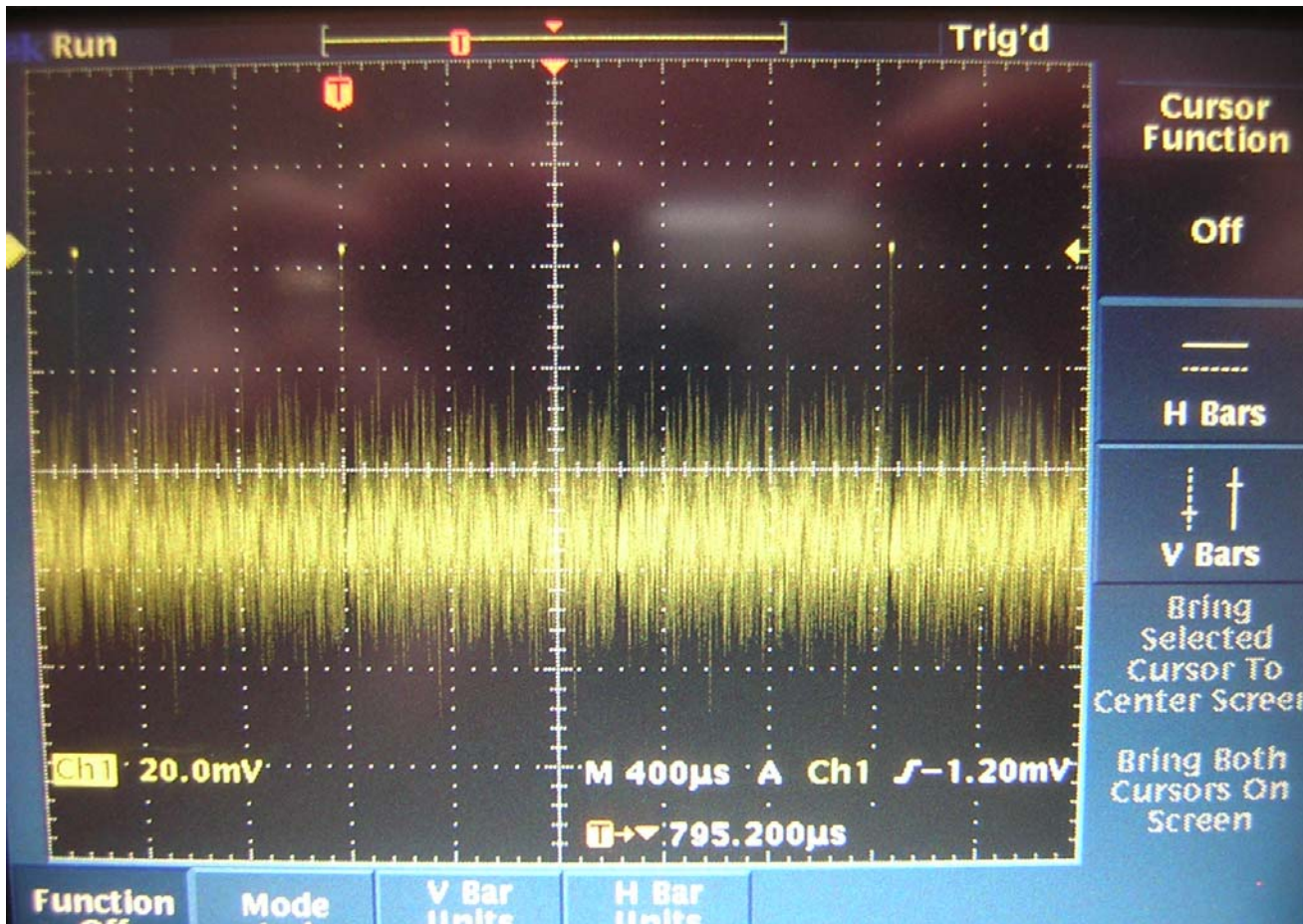
RESULTS	Value of T
Pass	1.02 mS

SIGNATURE

Tested By: 

DESCRIPTION OF TEST

Transmission Pulse Duration (T)



NORTHWEST EMC EMISSIONS DATA SHEET Rev BETA 01/2001

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
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
	Humidity: 38% RH
	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
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SAMPLE CALCULATIONS

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 5.15 - 5.25 GHz band, the peak transmit power shall not exceed the lesser of 50mW or 4dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If the antenna gain is greater than 6 dBi, the output must be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RESULTS

Pass

SIGNATURE

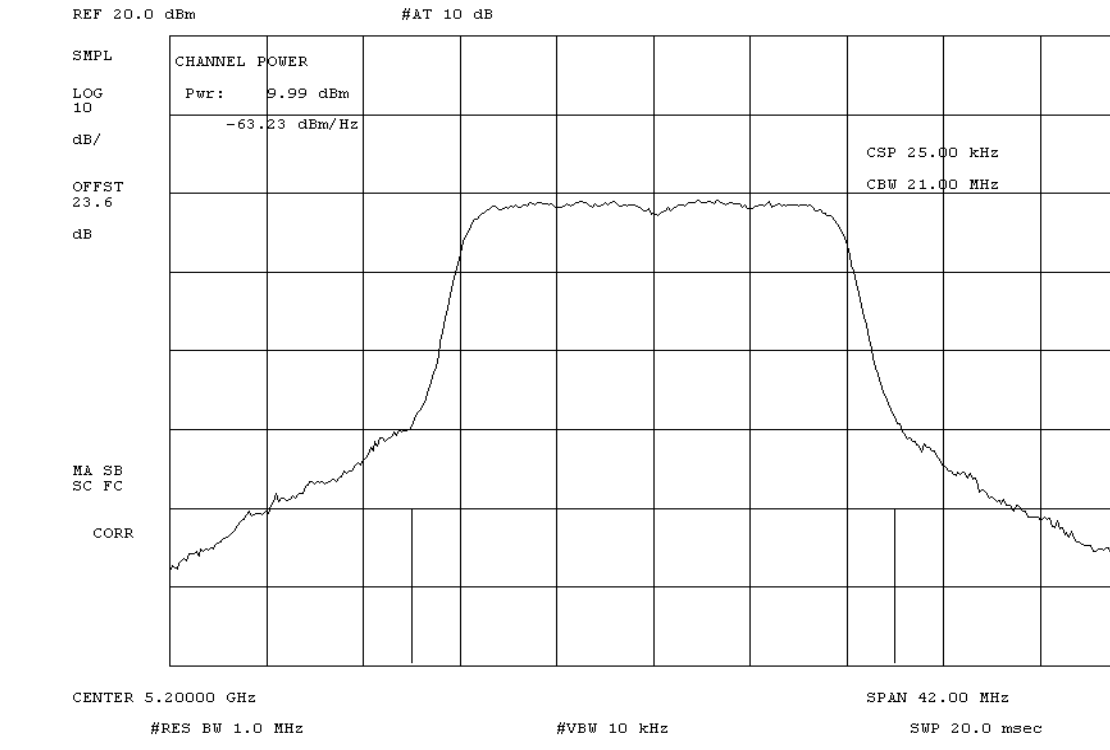
Tested By: *[Signature]*

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
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Frequency (MHz)	Peak Output Power (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5200.0	10.0	17.0	1.0	11.0



NORTHWEST
EMC EMISSIONS DATA SHEET Rev BETA
01/2001

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
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
	Humidity: 38% RH
	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
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SAMPLE CALCULATIONS

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 5.15 - 5.25 GHz band, the peak transmit power shall not exceed the lesser of 50mW or 4dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.

If the antenna gain is greater than 6 dBi, the output must be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RESULTS

Pass

SIGNATURE

Tested By: *[Signature]*

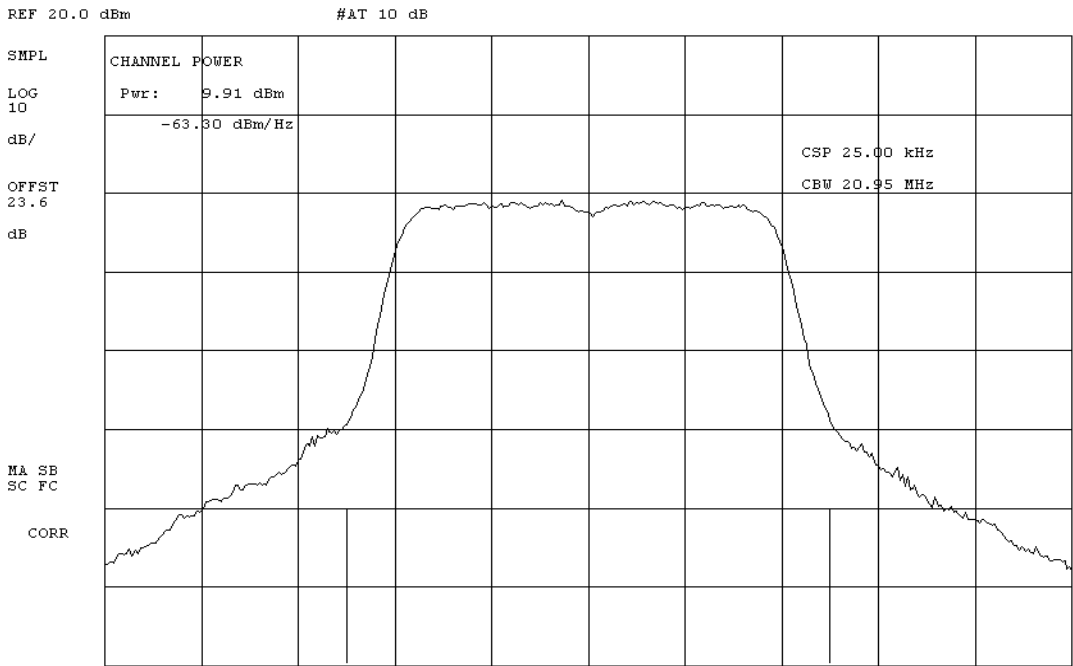
DESCRIPTION OF TEST

Peak Output Power - High Channel - 5.15 to 5.25 GHz Band

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

Frequency (MHz)	Peak Output Power (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5240.0	9.9	17.0	1.0	10.9


18:01:40 SEP 27, 2004
[Signature]



No user Menu

CENTER 5.24000 GHz SPAN 41.90 MHz

#RES BW 1.0 MHz #VBW 10 kHz SWP 20.0 msec

NORTHWEST EMC		EMISSIONS DATA SHEET		Rev BETA 01/30/01
EUT: 802MIAG-CV60	Serial Number: 002-032	Customer: Intermec Corporation	Attendees: None	Customer Ref. No.: N/A
Work Order: ITRM0041	Date: 09/27/04	Temperature: 72F	Humidity: 38% RH	Job Site: EV06
Tested by: Greg Kiemel	Power: 120 V, 60 Hz			
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 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 5.25 - 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 bandwidth in MHz.				
If the antenna gain is greater than 6 dBi, the output must 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 Output Power - Low Channel - 5.25 to 5.35 GHz Band				

Tx Data Rate: 6 Mbit

26 dB Emissions Bandwidth (B):

21.05 MHz

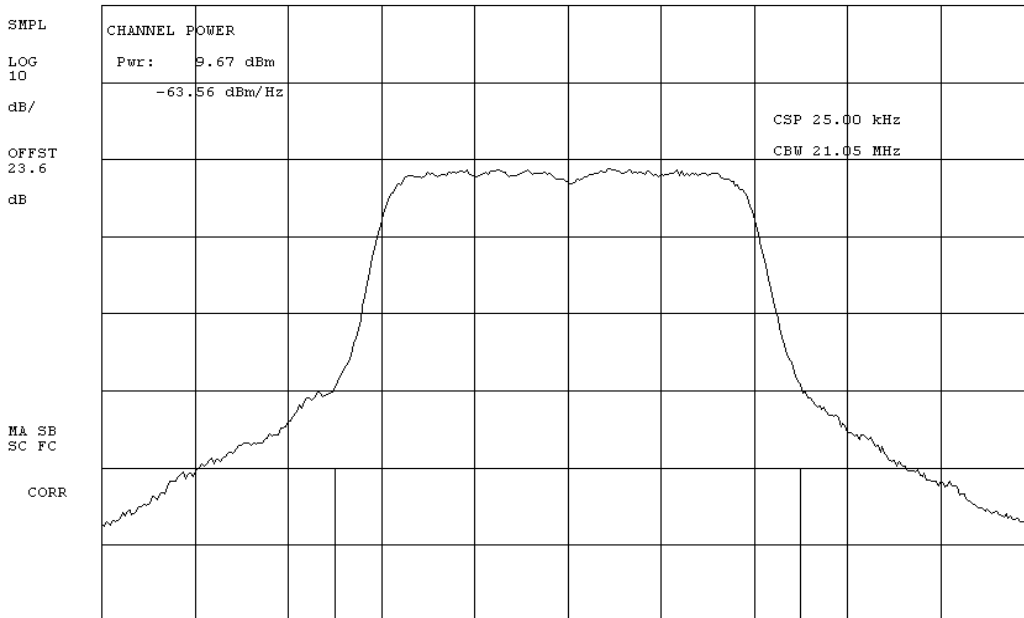
Frequency (MHz)	Peak Output Power (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5260.0	9.7	24.0	1.0	10.7

18:29:05 SEP 27, 2004



REF 20.0 dBm

#AT 10 dB

No user
Menu


CENTER 5.26000 GHz

SPAN 42.10 MHz

#RES BW 1.0 MHz

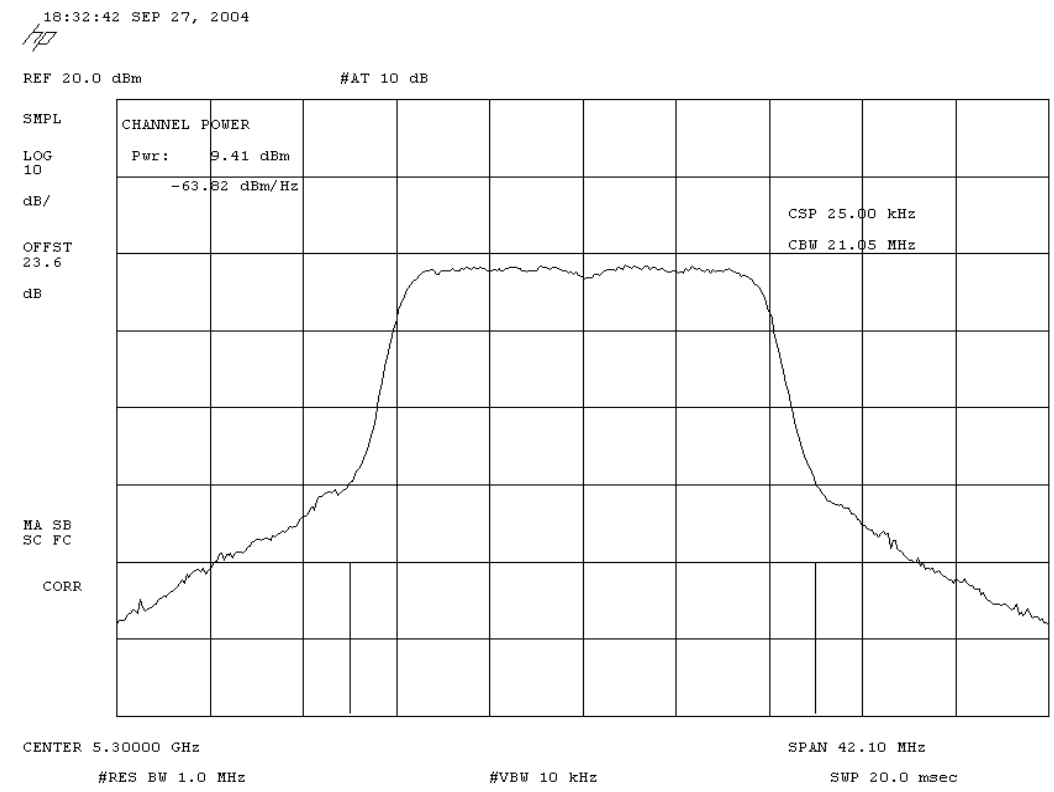
#VBW 10 kHz

SWP 20.0 msec


NORTHWEST 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	Humidity:	38% RH		
Customer Ref. No.:	N/A	Tested by:	Greg Kiemel	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 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 5.25 - 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 bandwidth in MHz.					
If the antenna gain is greater than 6 dBi, the output must 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 Output Power - Mid Channel - 5.25 to 5.35 GHz Band					

Tx Data Rate: 6 Mbit	26 dB Emissions Bandwidth (B):	21.05 MHz
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
Frequency (MHz)	Peak Output Power (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5300.0	9.4	24.0	1.0	10.4

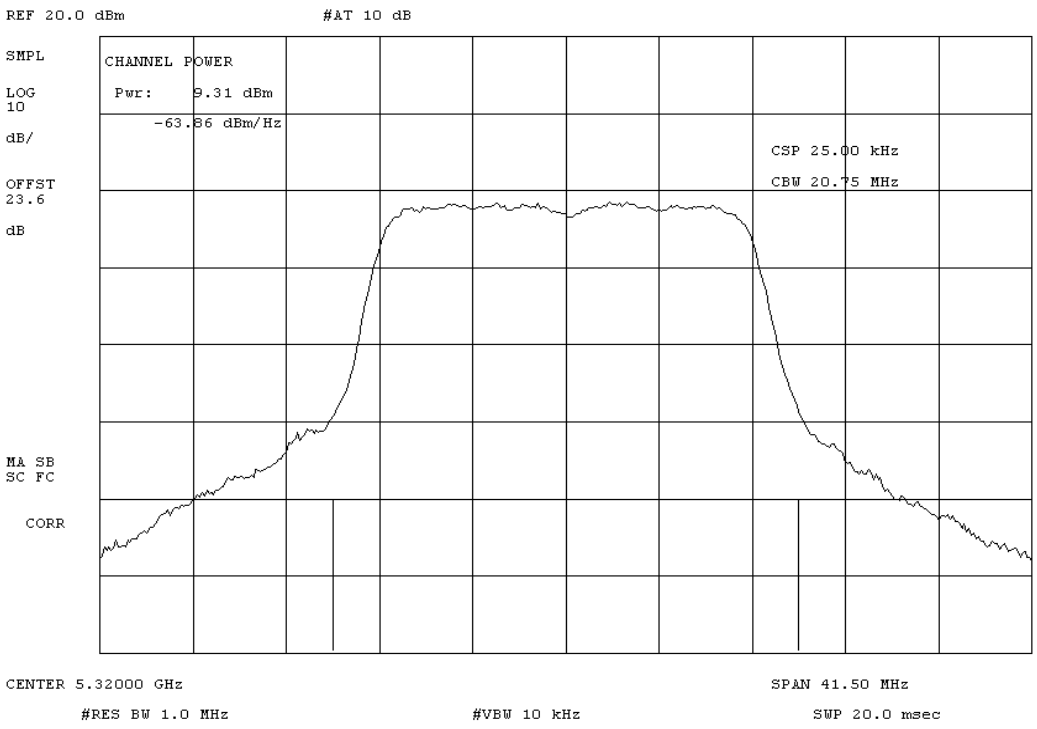


No user Menu


NORTHWEST 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	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		Year:	
SAMPLE CALCULATIONS					
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 5.25 - 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 bandwidth in MHz.					
If the antenna gain is greater than 6 dBi, the output must 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 Output Power - High Channel - 5.25 to 5.35 GHz Band					

Frequency (MHz)	Peak Output Power (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5320.0	9.3	24.0	1.0	10.3

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No user Menu

NORTHWEST 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	Humidity:	38% RH		
Customer Ref. No.:	N/A	Tested by:	Greg Kiemel	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 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 shall not exceed the lesser of 1 W or 17dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.					
If the antenna gain is greater than 6 dBi, the output must 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 Output Power - Low Channel - 5.725 to 5.825 GHz Band					

Tx Data Rate: 6 Mbit

26 dB Emissions Bandwidth (B):

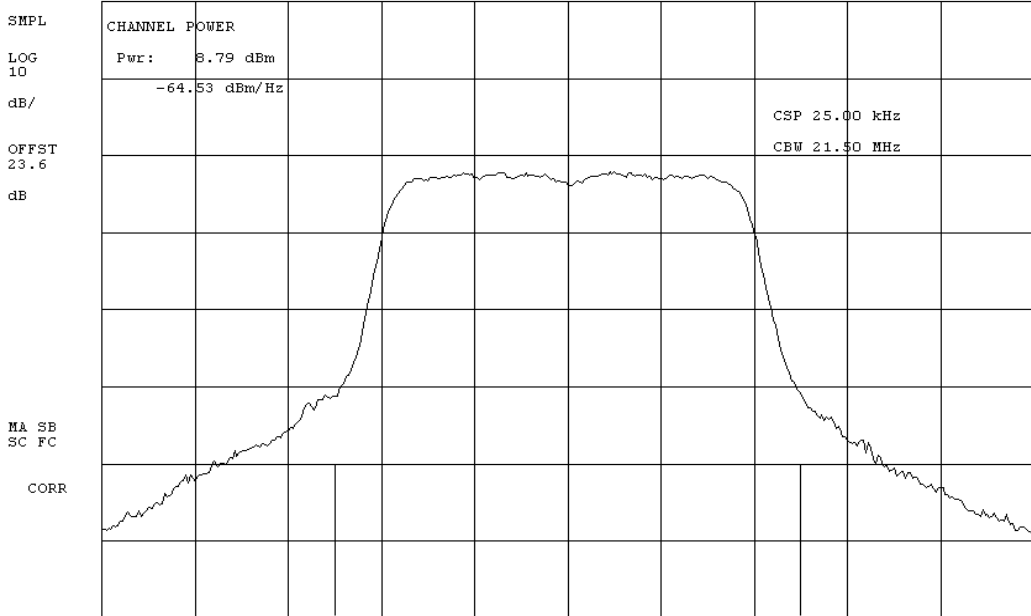
21.5 MHz

Frequency (MHz)	Peak Output Power (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5745.0	8.8	30.0	1.0	9.8

18:38:05 SEP 27, 2004

REF 20.0 dBm

#AT 10 dB



No user Menu


CENTER 5.74500 GHz

SPAN 43.00 MHz

#RES BW 1.0 MHz

#VBW 10 kHz

SWP 20.0 msec

NORTHWEST 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	Humidity:	38% RH	
Customer Ref. No.:	N/A	Tested by:	Greg Kiemel	Job Site:
		Power:	120 V, 60 Hz	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 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 shall not exceed the lesser of 1 W or 17dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.				
If the antenna gain is greater than 6 dBi, the output must 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 Output Power - Mid Channel - 5.725 to 5.825 GHz Band				

Tx Data Rate: 6 Mbit

26 dB Emissions Bandwidth (B):

21.35 MHz

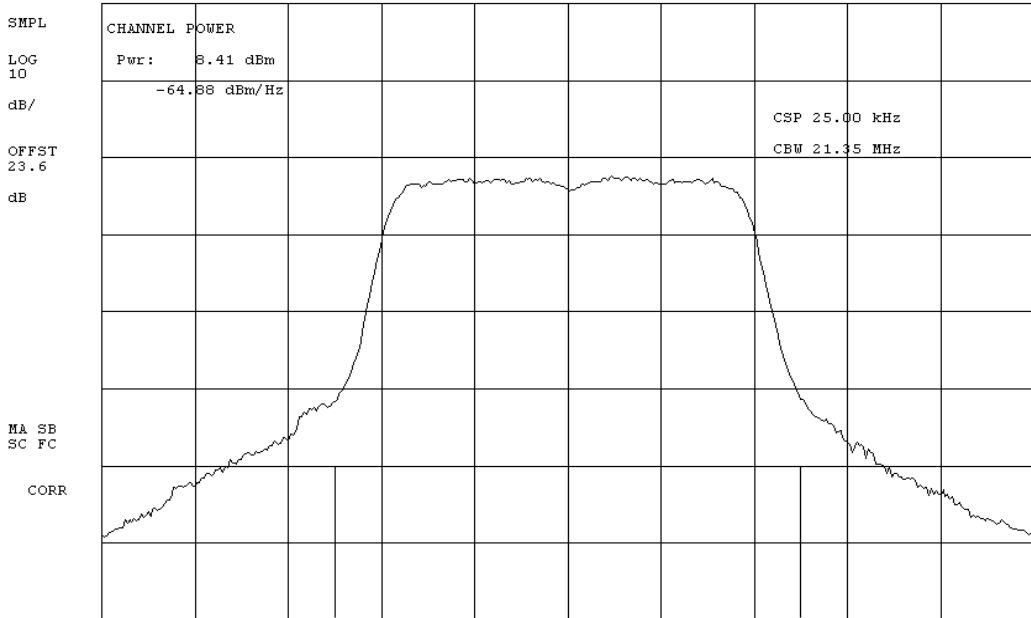
Frequency (MHz)	Peak Output Power (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5775.0	8.4	30.0	1.0	9.4

18:41:11 SEP 27, 2004

REF 20.0 dBm

#AT 10 dB

No user Menu




CENTER 5.77500 GHz

SPAN 42.70 MHz

#RES BW 1.0 MHz

#VBW 10 kHz

SWP 20.0 msec

NORTHWEST 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	Humidity:	38% RH		
Customer Ref. No.:	N/A	Tested by:	Greg Kiemel	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 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 shall not exceed the lesser of 1 W or 17dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If the antenna gain is greater than 6 dBi, the output must 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 Output Power - High Channel - 5.725 to 5.825 GHz Band					

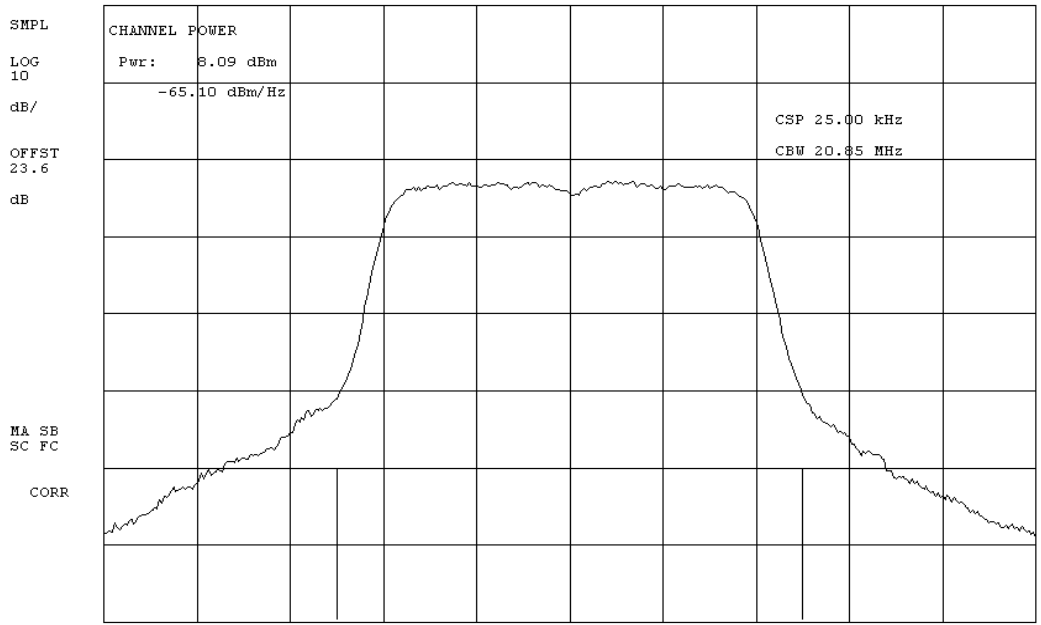
Tx Data Rate: 6 Mbit	26 dB Emissions Bandwidth (B):	20.85 MHz
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Frequency (MHz)	Peak Output Power (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5805.0	8.1	30.0	1.0	9.1

18:44:44 SEP 27, 2004


hp

REF 20.0 dBm #AT 10 dB



No user Menu

CENTER 5.80500 GHz SPAN 41.70 MHz
 #RES BW 1.0 MHz #VBW 10 kHz SWP 20.0 msec

NORTHWEST EMC		EMISSIONS DATA SHEET		Rev BETA 01/2001	
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 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 5.15 - 5.25 GHz band, the peak transmit power shall not exceed the lesser of 50mW or 4dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.					
If the antenna gain is greater than 6 dBi, the output must 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 Output Power - Low Channel - 5.15 to 5.25 GHz Band					

Tx Data Rate: 36 Mbit

26 dB Emissions Bandwidth (B):

19.6 MHz

Frequency (MHz)	Peak Output Power (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5180.0	10.4	16.9	1.0	11.4

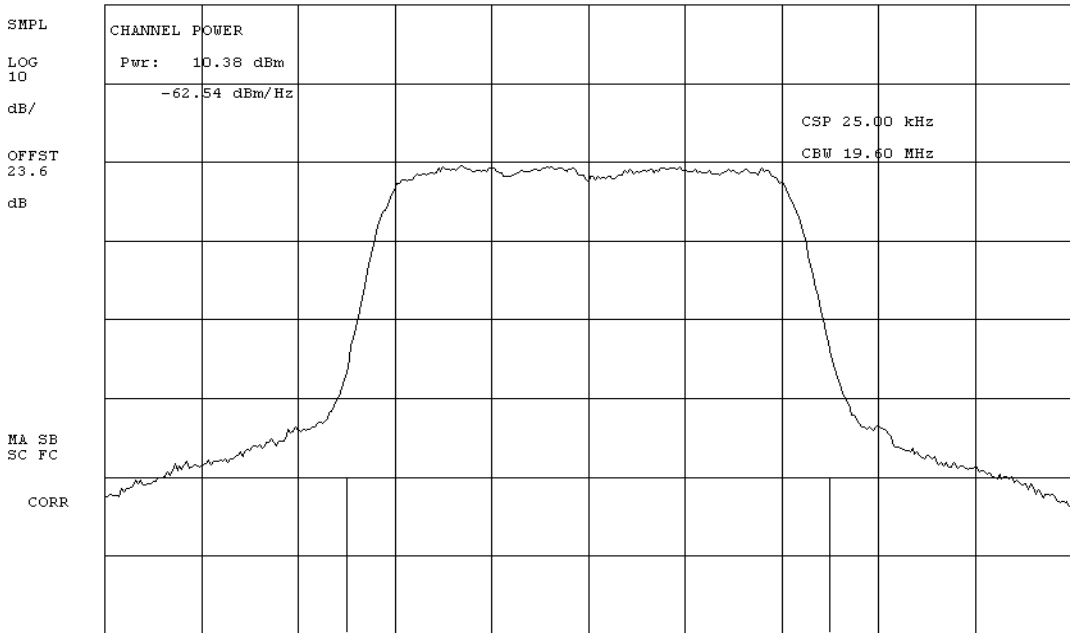
18:48:50 SEP 27, 2004

hp

REF 20.0 dBm

#AT 10 dB

No user Menu



CENTER 5.18000 GHz

SPAN 39.20 MHz

#RES BW 1.0 MHz

#VBW 10 kHz

SWP 20.0 msec

EMC EMISSIONS DATA SHEET

Rev BETA
01/2001

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermec Corporation	Temperature: 72F
Attendees: None	Tested by: Greg Klemel
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
	Humidity: 38% RH
	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 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 5.15 - 5.25 GHz band, the peak transmit power shall not exceed the lesser of 50mW or 4dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.
If the antenna gain is greater than 6 dBi, the output must be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RESULTS

Pass

SIGNATURE

[Handwritten Signature]

Tested By: _____

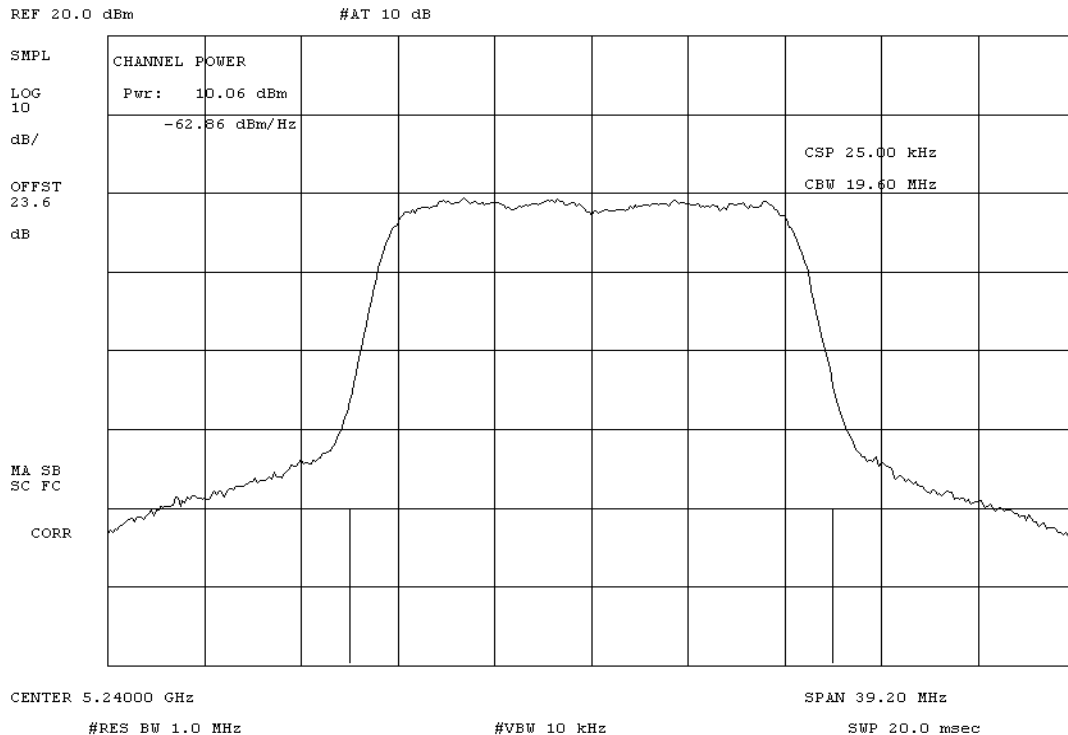
DESCRIPTION OF TEST

Peak Output Power - High Channel - 5.15 to 5.25 GHz Band


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

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

18:54:57 SEP 27, 2004

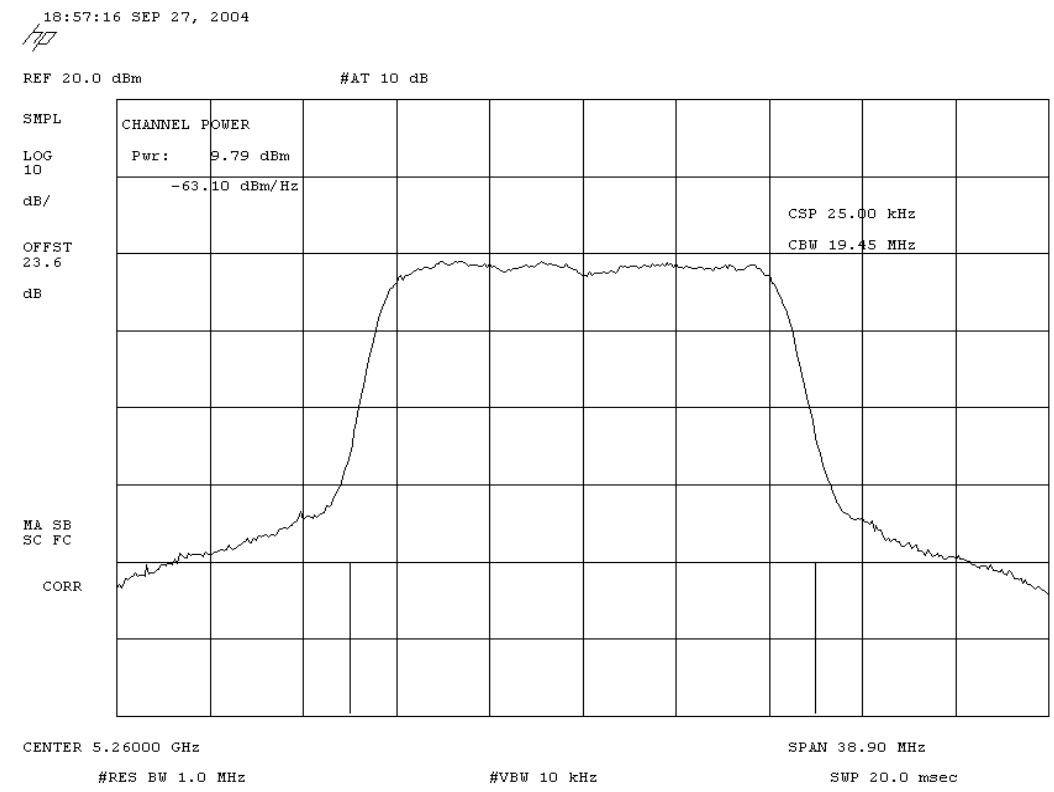


No user
Menu


NORTHWEST 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	Humidity:	38% RH		
Customer Ref. No.:	N/A	Tested by:	Greg Kiemel	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 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 5.25 - 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 bandwidth in MHz.					
If the antenna gain is greater than 6 dBi, the output must 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 Output Power - Low Channel - 5.25 to 5.35 GHz Band					

Tx Data Rate: 36 Mbit	26 dB Emissions Bandwidth (B):	19.45 MHz
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Frequency (MHz)	Peak Output Power (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5260.0	9.8	23.9	1.0	10.8



No user Menu


NORTHWEST 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	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
SAMPLE CALCULATIONS					
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 5.25 - 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 bandwidth in MHz. If the antenna gain is greater than 6 dBi, the output must 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 Output Power - Mid Channel - 5.25 to 5.35 GHz Band					

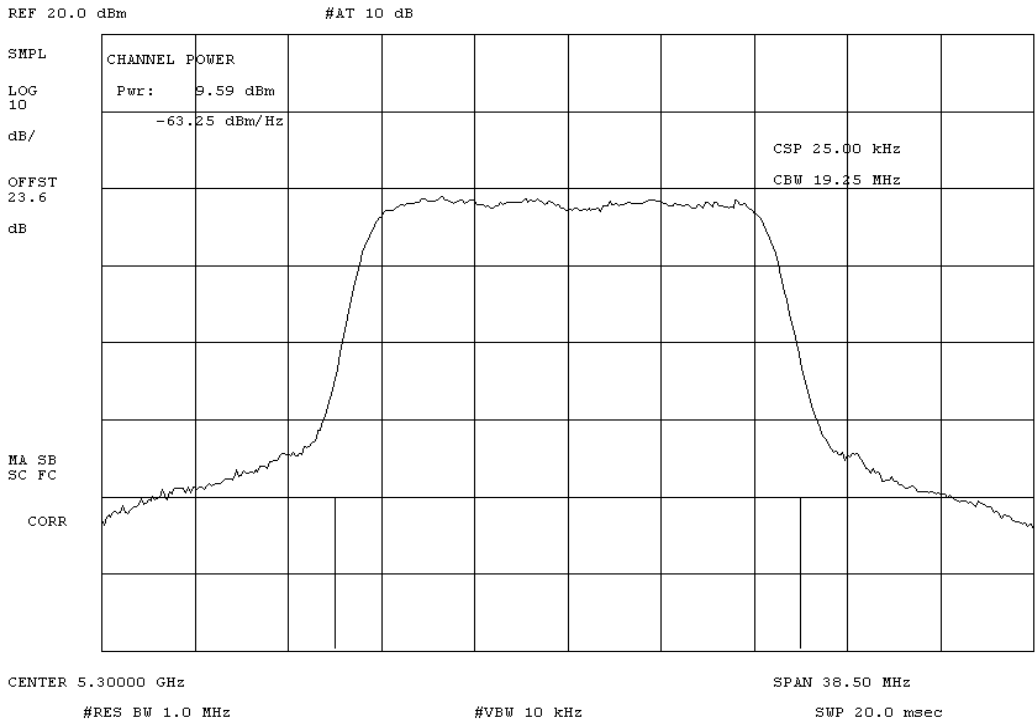
Tx Data Rate: 36 Mbit

26 dB Emissions Bandwidth (B):

19.25 MHz

Frequency (MHz)	Peak Output Power (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5300.0	9.6	23.8	1.0	10.6

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NORTHWEST
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	Humidity: 38% RH
Customer Ref. No.: N/A	Tested by: Greg Kiemel
	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 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 5.25 - 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 bandwidth in MHz.
 If the antenna gain is greater than 6 dBi, the output must be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RESULTS
 Pass

SIGNATURE

 Tested By: _____

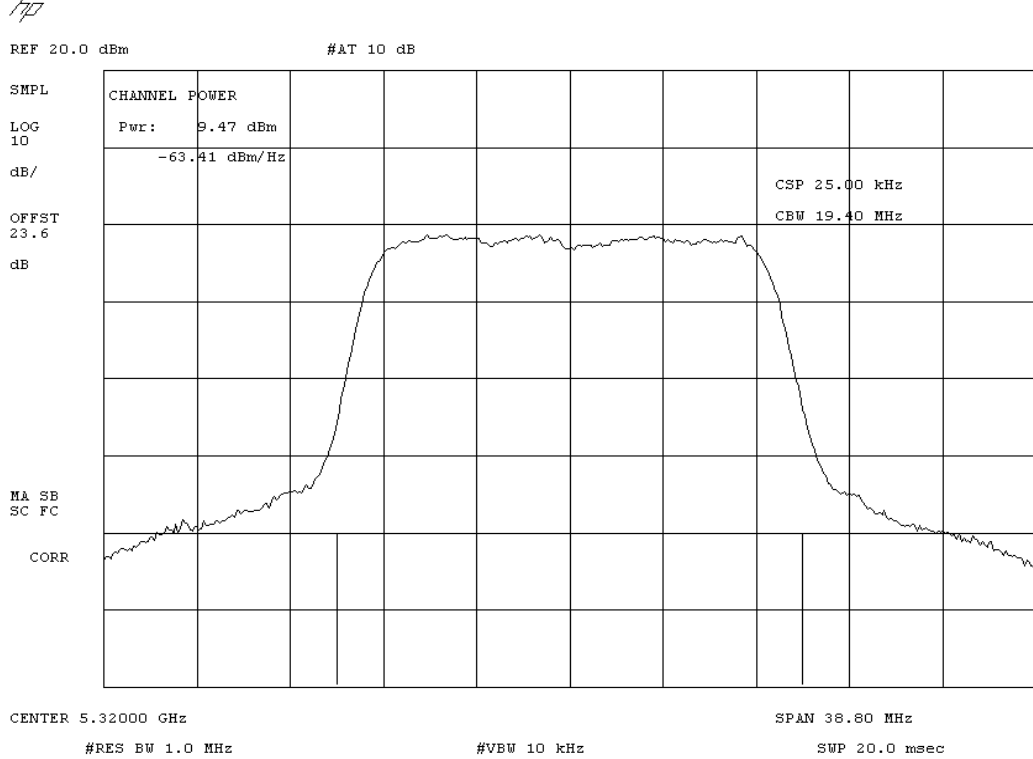
DESCRIPTION OF TEST

Peak Output Power - High Channel - 5.25 to 5.35 GHz Band


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

Frequency (MHz)	Peak Output Power (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5320.0	9.5	23.9	1.0	10.5

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No user Menu

NORTHWEST 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	Humidity:	38% RH		
Customer Ref. No.:	N/A	Tested by:	Greg Kiemel	Power:	120 V, 60 Hz
TEST SPECIFICATIONS		Job Site:	EV06		
Specification:	47 CFR 15.407(a)(1)-(3)	Year:	2002	Method:	DA 02-2138, ANSI C63.4
SAMPLE CALCULATIONS		Year:	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 shall not exceed the lesser of 1 W or 17dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.					
If the antenna gain is greater than 6 dBi, the output must 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 Output Power - Low Channel - 5.725 to 5.825 GHz Band					

Tx Data Rate: 36 Mbit

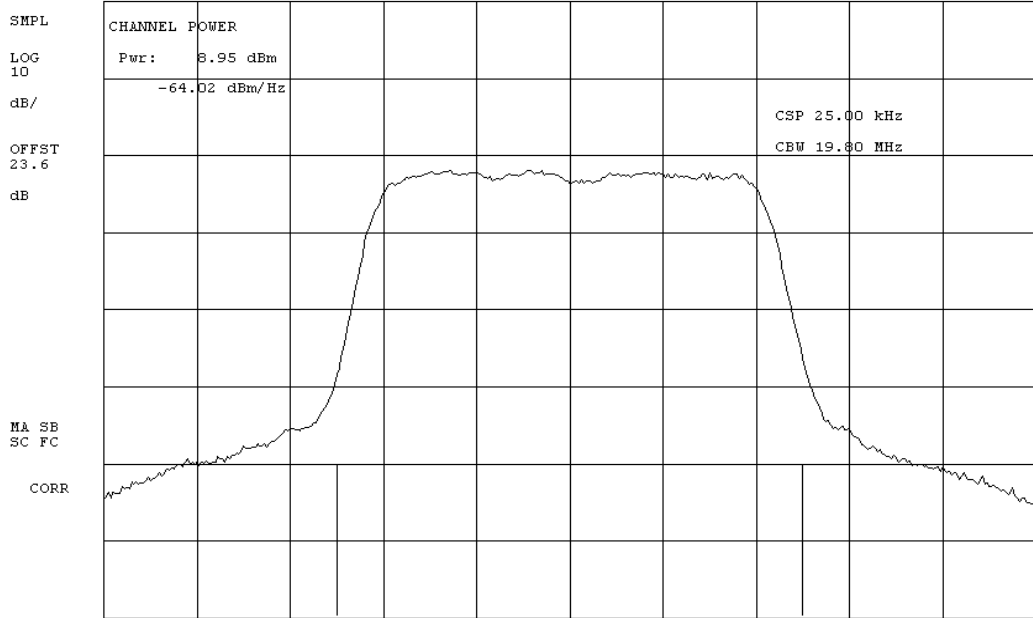
26 dB Emissions Bandwidth (B):

19.8 MHz

Frequency (MHz)	Peak Output Power (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5745.0	9.0	30.0	1.0	10.0

19:04:16 SEP 27, 2004

REF 20.0 dBm #AT 10 dB



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CENTER 5.74500 GHz

SPAN 39.60 MHz

#RES BW 1.0 MHz

#VBW 10 kHz

SWP 20.0 msec

NORTHWEST 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	Humidity:	38% RH		
Customer Ref. No.:	N/A	Tested by:	Greg Kiemel	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 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 shall not exceed the lesser of 1 W or 17dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If the antenna gain is greater than 6 dBi, the output must 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 Output Power - High Channel - 5.725 to 5.825 GHz Band					

Tx Data Rate: 36 Mbit

26 dB Emissions Bandwidth (B):

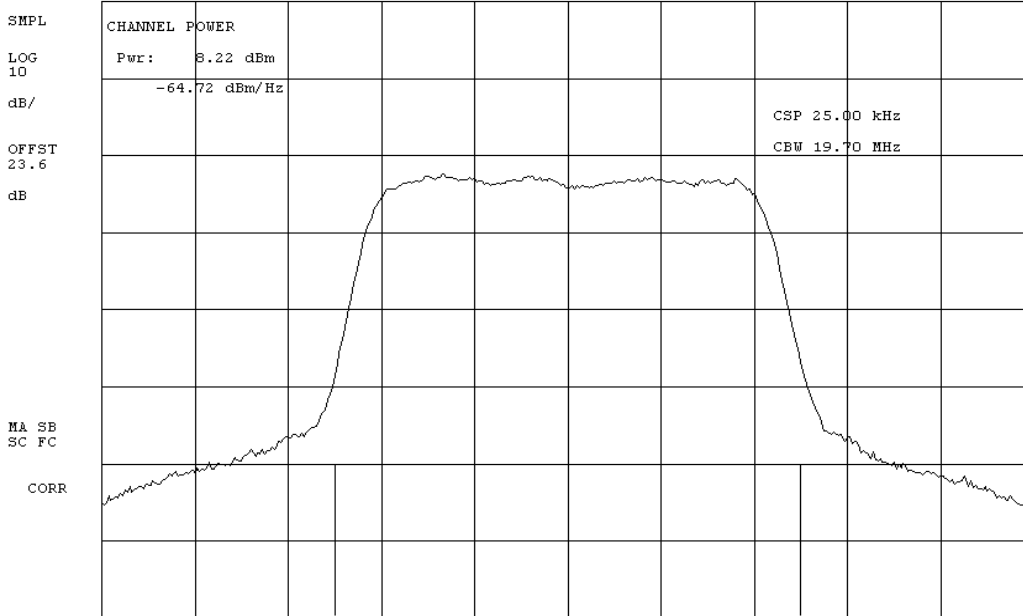
19.7 MHz

Frequency (MHz)	Peak Output Power (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5805.0	8.2	29.9	1.0	9.2

19:08:46 SEP 27, 2004

REF 20.0 dBm

#AT 10 dB



No user Menu


CENTER 5.80500 GHz

SPAN 39.40 MHz

#RES BW 1.0 MHz

#VBW 10 kHz

SWP 20.0 msec

NORTHWEST 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		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 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 5.15 - 5.25 GHz band, the peak transmit power shall not exceed the lesser of 50mW or 4dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.					
If the antenna gain is greater than 6 dBi, the output must 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 Output Power - Low Channel - 5.15 to 5.25 GHz Band					

Tx Data Rate: 54 Mbit

26 dB Emissions Bandwidth (B):

19.25 MHz

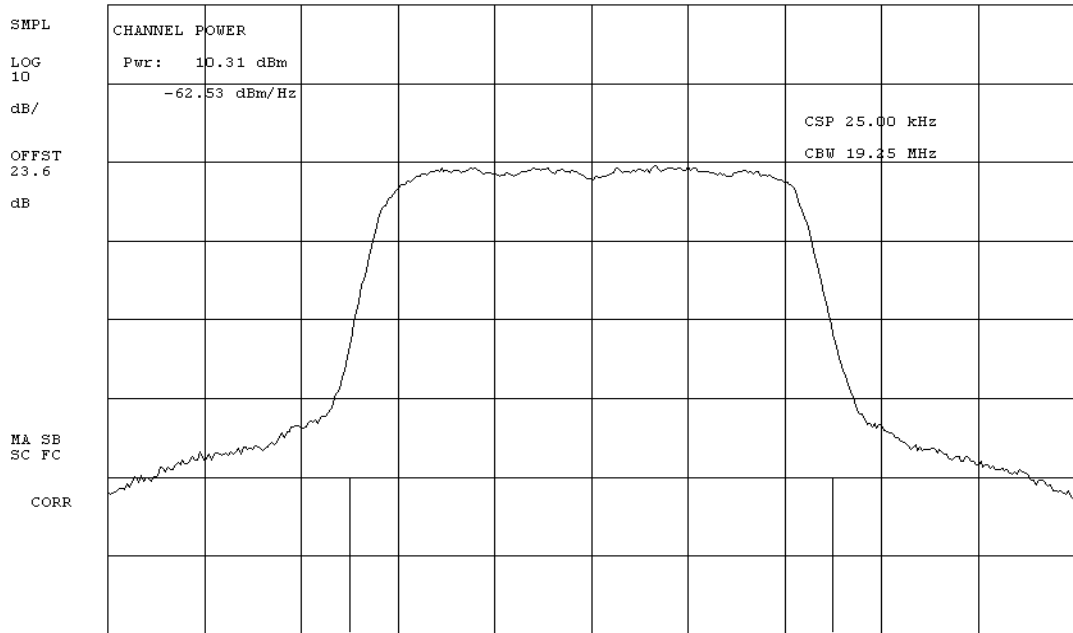
Frequency (MHz)	Peak Output Power (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5180.0	10.3	16.8	1.0	11.3

19:11:53 SEP 27, 2004

hp

REF 20.0 dBm

#AT 10 dB



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CENTER 5.18000 GHz

SPAN 38.50 MHz

#RES BW 1.0 MHz

#VBW 10 kHz

SWP 20.0 msec

NORTHWEST
EMC EMISSIONS DATA SHEET Rev BETA
01/2001

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
Customer Ref. No.: N/A	Power: 120 V, 60 Hz
	Humidity: 38% RH
	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
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SAMPLE CALCULATIONS

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 5.15 - 5.25 GHz band, the peak transmit power shall not exceed the lesser of 50mW or 4dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If the antenna gain is greater than 6 dBi, the output must be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RESULTS

Pass

SIGNATURE

Tested By: *[Signature]*

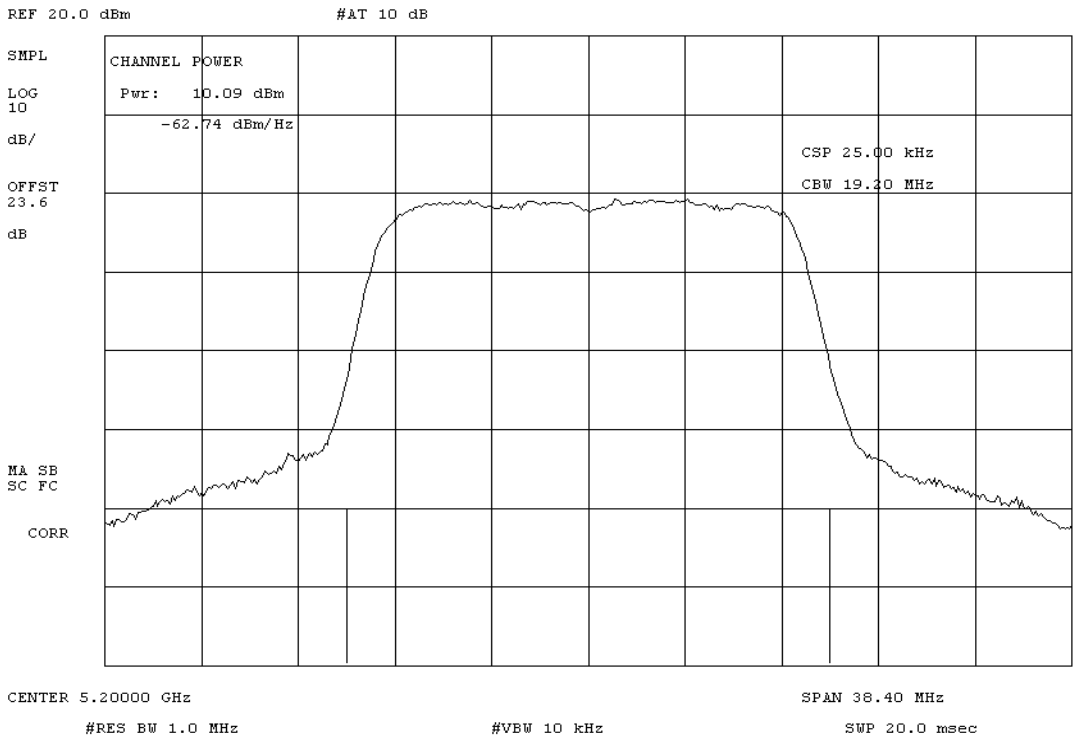
DESCRIPTION OF TEST

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 (MHz)	Peak Output Power (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5200.0	10.1	16.8	1.0	11.1

19:14:08 SEP 27, 2004
[Signature]



No user Menu

NORTHWEST EMC		EMISSIONS DATA SHEET		Rev BETA 01/2001	
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 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 5.15 - 5.25 GHz band, the peak transmit power shall not exceed the lesser of 50mW or 4dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz.					
If the antenna gain is greater than 6 dBi, the output must 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 Output Power - High Channel - 5.15 to 5.25 GHz Band					

Tx Data Rate: 54 Mbit

26 dB Emissions Bandwidth (B):

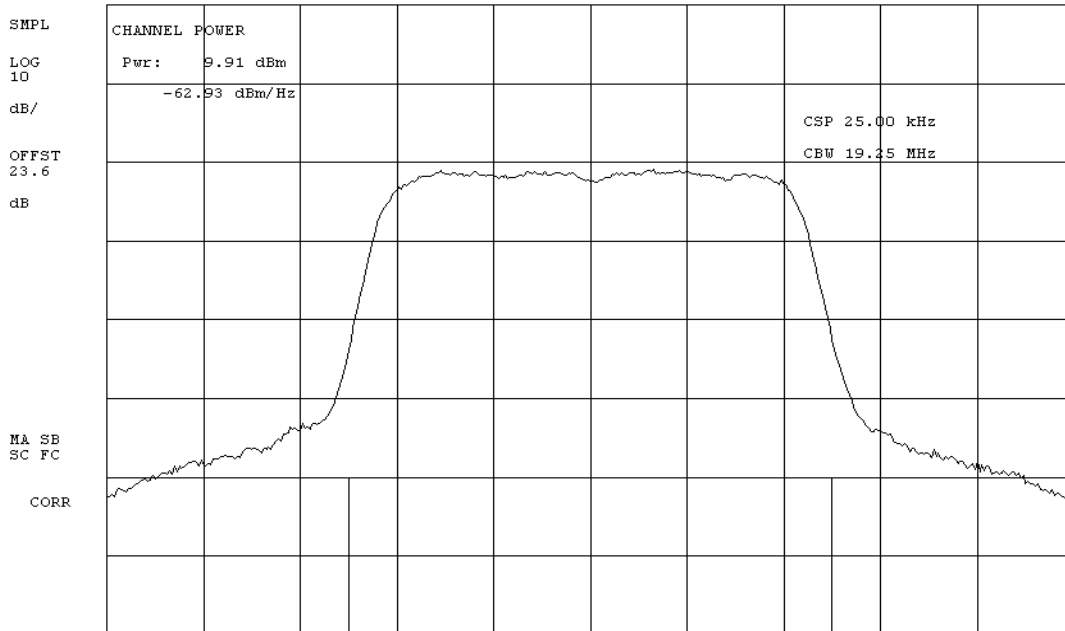
19.25 MHz

Frequency (MHz)	Peak Output Power (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5240.0	9.9	16.8	1.0	10.9

19:16:11 SEP 27, 2004

REF 20.0 dBm

#AT 10 dB



No user Menu

CENTER 5.24000 GHz

SPAN 38.50 MHz

#RES BW 1.0 MHz

#VBW 10 kHz

SWP 20.0 msec

NORTHWEST
EMC EMISSIONS DATA SHEET Rev BETA 01/30/01

EUT: 802MIAG-CV60	Work Order: ITRM0041
Serial Number: 002-032	Date: 09/27/04
Customer: Intermecc Corporation	Temperature: 72F
Attendees: None	Humidity: 38% RH
Customer Ref. No.: N/A	Tested by: Greg Kiemel
	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 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 5.25 - 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 bandwidth in MHz. If the antenna gain is greater than 6 dBi, the output must 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

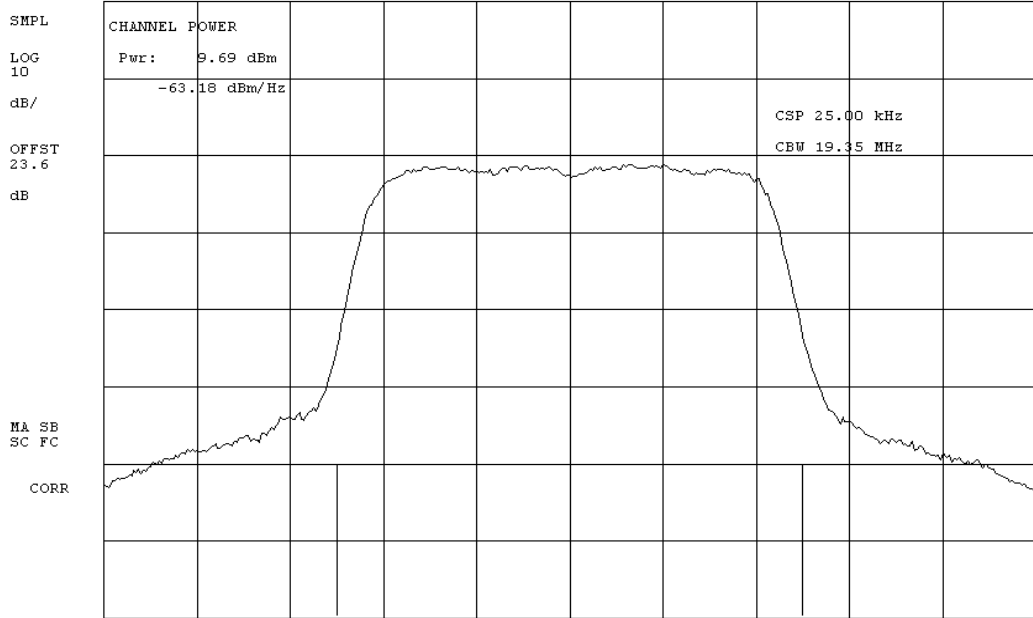
Peak Output Power - Low Channel - 5.25 to 5.35 GHz Band

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

Frequency (MHz)	Peak Output Power (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5260.0	9.7	23.9	1.0	10.7


19:18:17 SEP 27, 2004

REF 20.0 dBm #AT 10 dB



No user Menu

CENTER 5.26000 GHz SPAN 38.70 MHz
 #RES BW 1.0 MHz #VBW 10 kHz SWP 20.0 msec

NORTHWEST 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	Humidity:	38% RH		
Customer Ref. No.:	N/A	Tested by:	Greg Kiemel	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 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 5.25 - 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 bandwidth in MHz.					
If the antenna gain is greater than 6 dBi, the output must 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 Output Power - Mid Channel - 5.25 to 5.35 GHz Band					

Tx Data Rate: 54 Mbit

26 dB Emissions Bandwidth (B):

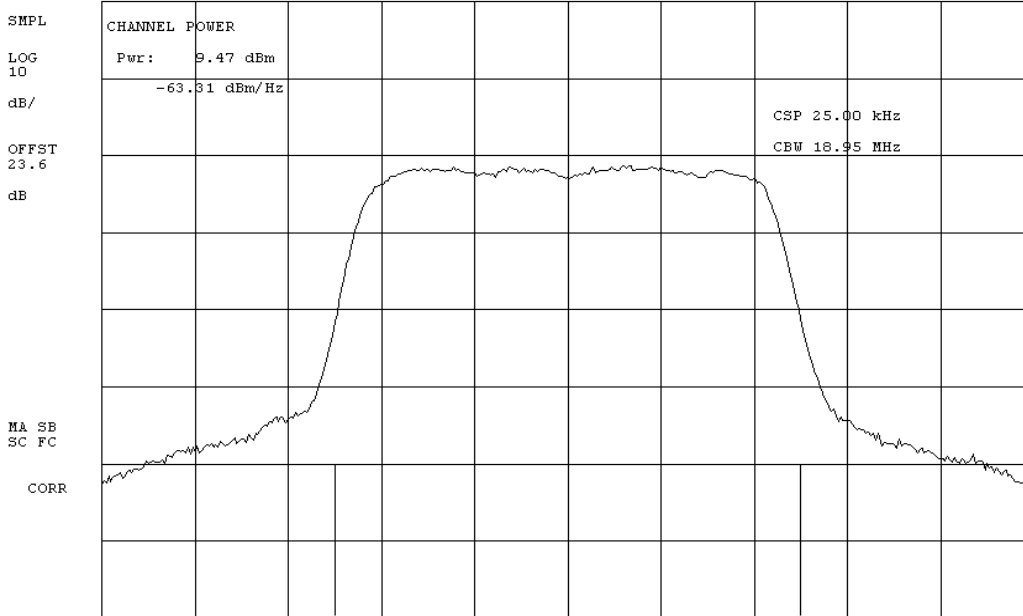
18.95 MHz

Frequency (MHz)	Peak Output Power (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5300.0	9.5	23.8	1.0	10.5

19:20:16 SEP 27, 2004

REF 20.0 dBm

#AT 10 dB



No user Menu


CENTER 5.30000 GHz

SPAN 37.90 MHz

#RES BW 1.0 MHz

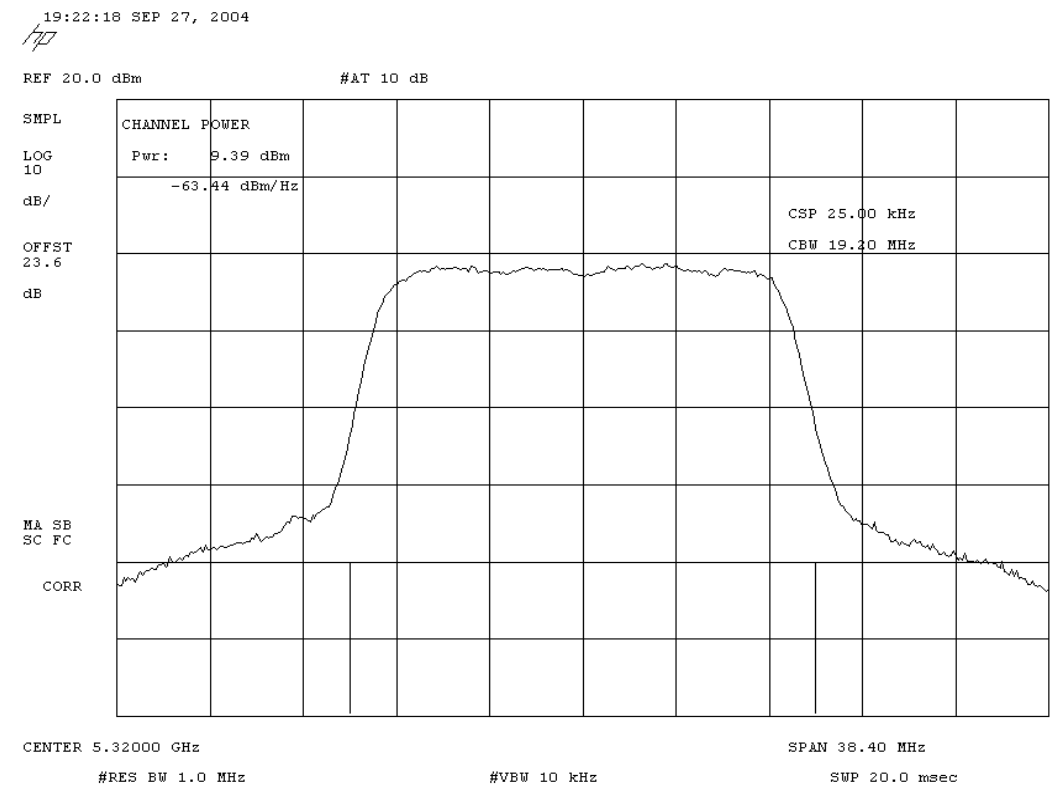
#VBW 10 kHz

SWP 20.0 msec


NORTHWEST 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	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
SAMPLE CALCULATIONS					
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 5.25 - 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 bandwidth in MHz.					
If the antenna gain is greater than 6 dBi, the output must 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 Output Power - High Channel - 5.25 to 5.35 GHz Band					

Tx Data Rate: 54 Mbit	26 dB Emissions Bandwidth (B):	19.2 MHz
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Frequency (MHz)	Peak Output Power (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5320.0	9.4	23.8	1.0	10.4



No user Menu

NORTHWEST 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	Humidity:	38% RH		
Customer Ref. No.:	N/A	Tested by:	Greg Kiemel	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 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 shall not exceed the lesser of 1 W or 17dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If the antenna gain is greater than 6 dBi, the output must 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 Output Power - Low Channel - 5.725 to 5.825 GHz Band					

Tx Data Rate: 54 Mbit

26 dB Emissions Bandwidth (B):

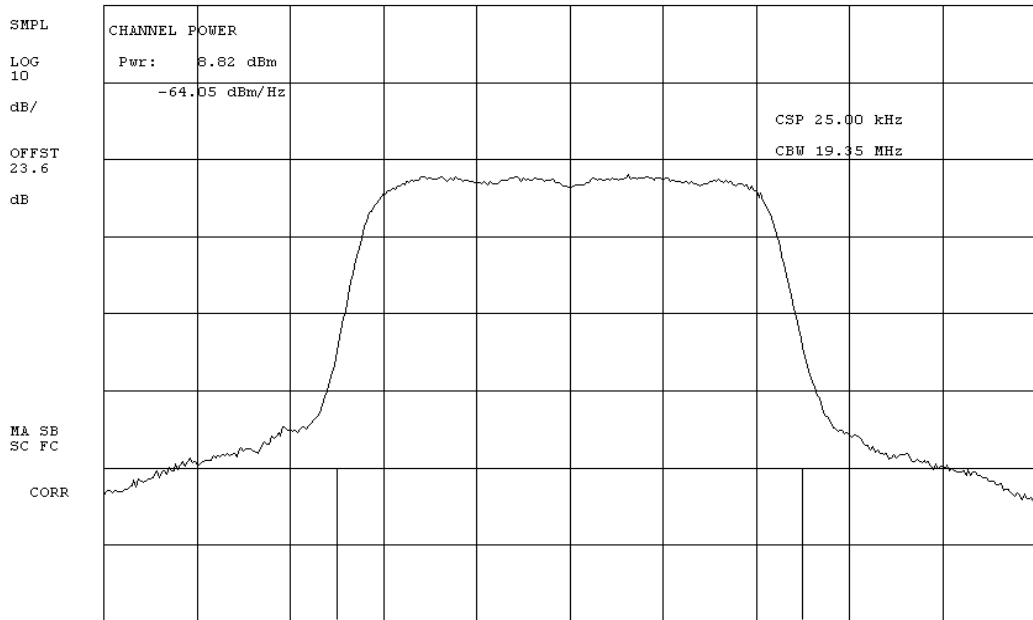
19.35 MHz

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

19:24:43 SEP 27, 2004

REF 20.0 dBm

#AT 10 dB



No user Menu


CENTER 5.74500 GHz

SPAN 38.70 MHz

#RES BW 1.0 MHz

#VBW 10 kHz

SWP 20.0 msec

NORTHWEST 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			Humidity:	38% RH
Customer Ref. No.:	N/A	Tested by:	Greg Kiemel	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 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 shall not exceed the lesser of 1 W or 17dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If the antenna gain is greater than 6 dBi, the output must 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 Output Power - Mid Channel - 5.725 to 5.825 GHz Band					

Tx Data Rate: 54 Mbit

26 dB Emissions Bandwidth (B):

19.45 MHz

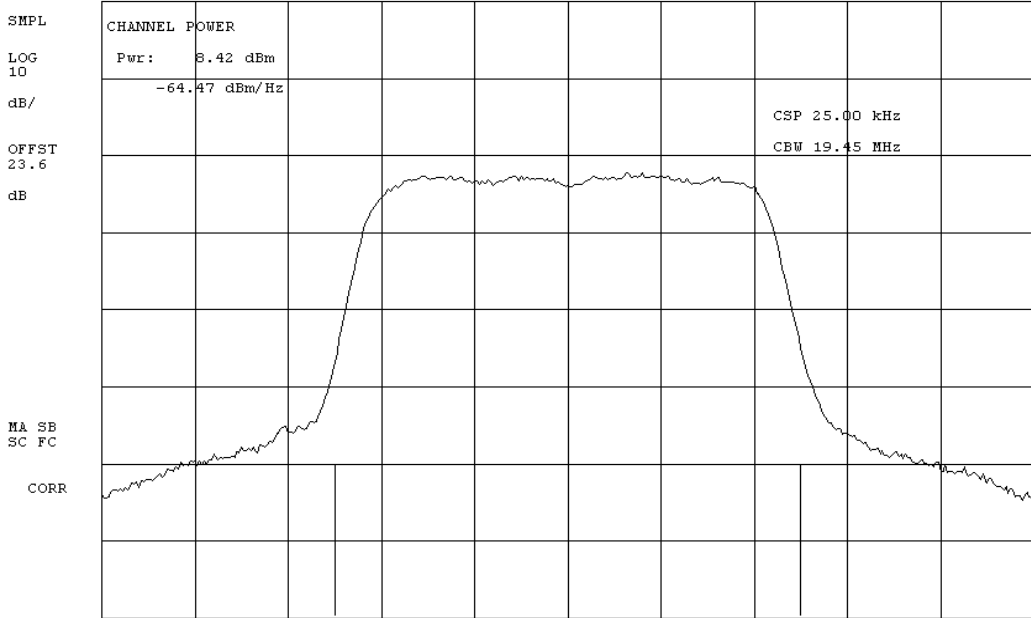
Frequency (MHz)	Peak Output Power (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5775.0	8.4	29.9	1.0	9.4

19:26:46 SEP 27, 2004

REF 20.0 dBm

#AT 10 dB

No user Menu



CENTER 5.77500 GHz

SPAN 38.90 MHz

#RES BW 1.0 MHz

#VBW 10 kHz

SWP 20.0 msec

NORTHWEST
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	Humidity: 38% RH
Customer Ref. No.: N/A	Tested by: Greg Kiemel
	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
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SAMPLE CALCULATIONS

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 shall not exceed the lesser of 1 W or 17dBm + 10 log B, where B is the 26 dB emission bandwidth in MHz. If the antenna gain is greater than 6 dBi, the output must be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

RESULTS

Pass

SIGNATURE

Tested By: *Greg Kiemel*

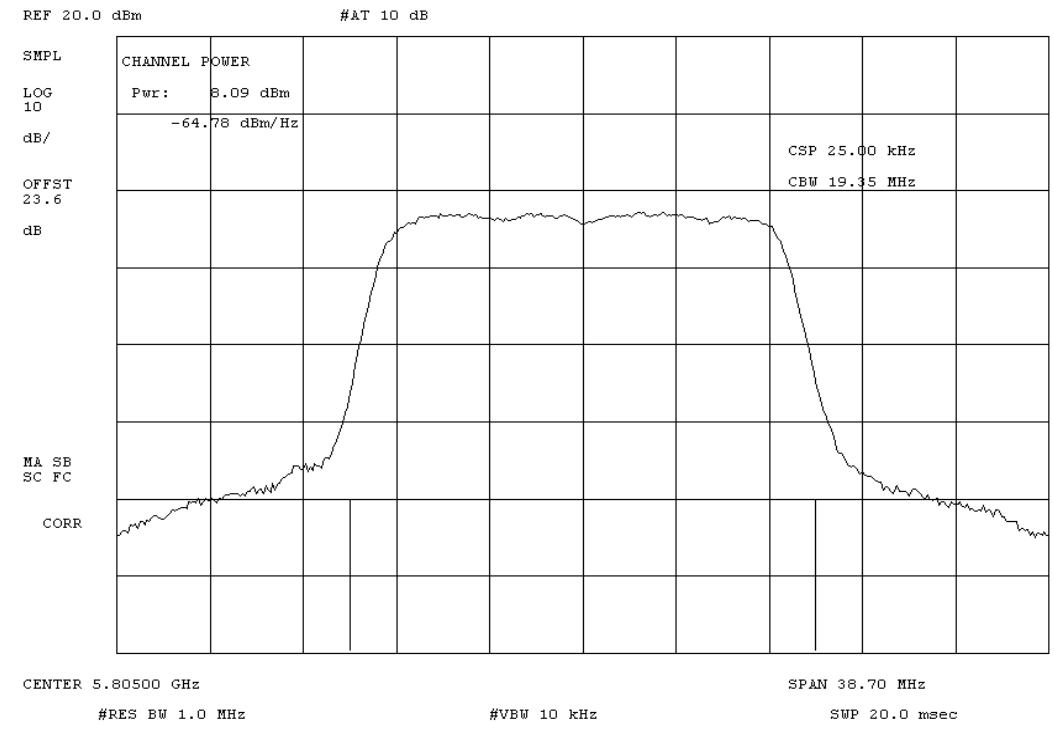
DESCRIPTION OF TEST

Peak Output Power - High Channel - 5.725 to 5.825 GHz Band

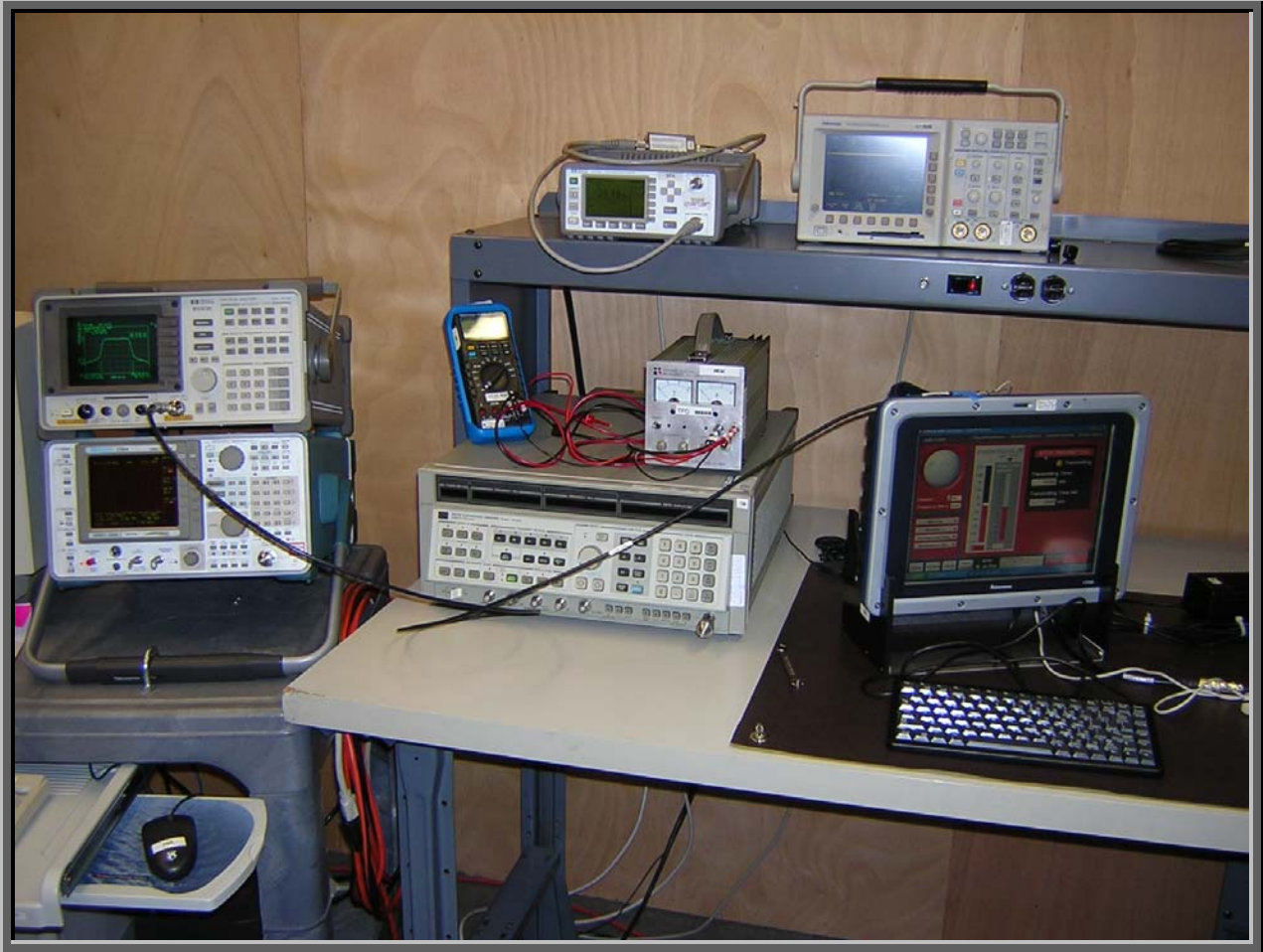
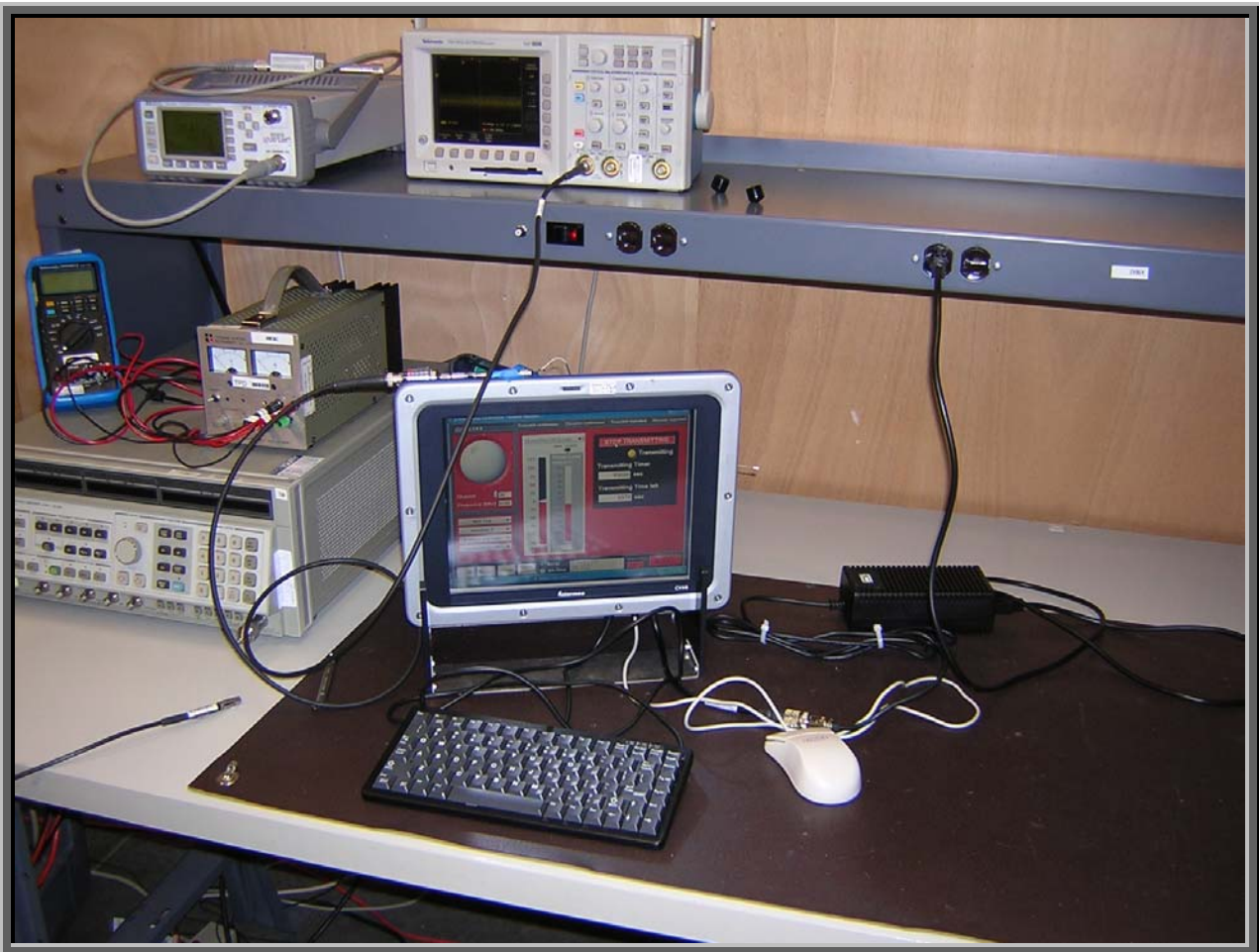
Tx Data Rate: 54 Mbit 26 dB Emissions Bandwidth (B): 19.35 MHz

Frequency (MHz)	Peak Output Power (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5805.0	8.1	29.9	1.0	9.1

19:29:01 SEP 27, 2004
hp



No user Menu



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
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Description

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	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 $4 \text{ dBm} + 10 \log B$, 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 $11 \text{ dBm} + 10 \log B$, 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 $17 \text{ dBm} + 10 \log B$, 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.

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)

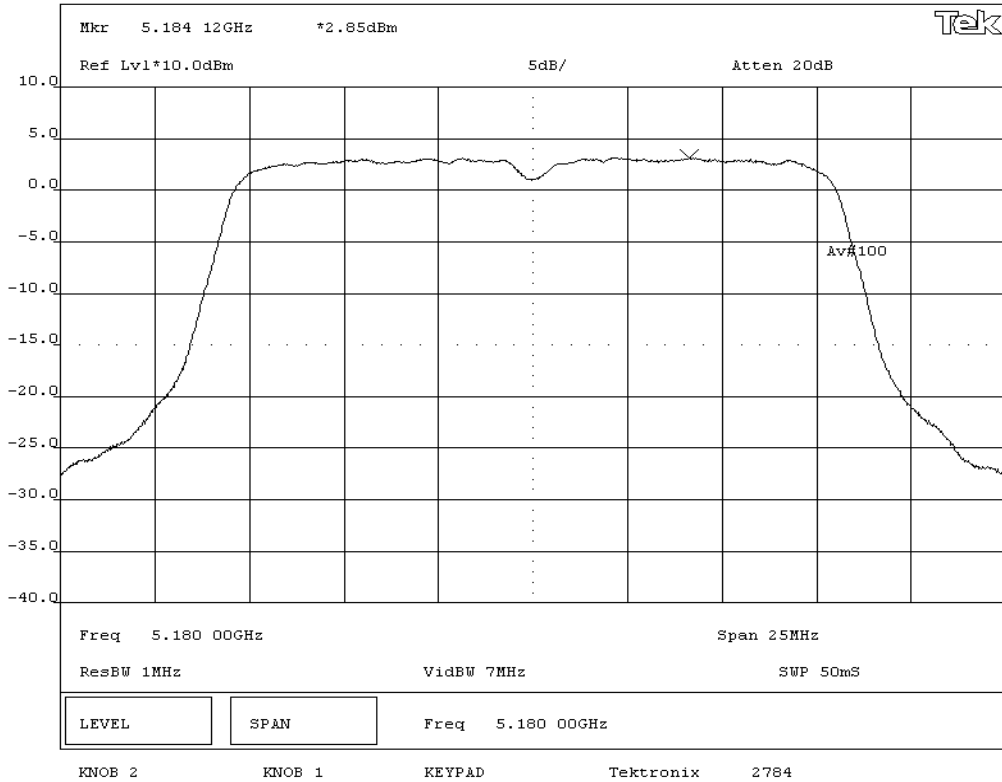
Completed by:


A handwritten signature in blue ink, appearing to read "U. K. P.", is written over a white rectangular area. The signature is stylized and includes a large initial letter that looks like "A" or "U".

NORTHWEST EMC		EMISSIONS DATA SHEET		Rev BETA 01/2001
EUT: 802MIAG-CV60		Work Order: ITRM0041		
Serial Number: 002-032		Date: 09/27/04		
Customer: Intermec Corporation		Temperature: 72F		
Attendees: None	Tested by: Greg Klemel	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 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 5.15 - 5.25 GHz band, the peak power spectral density shall not exceed 4dBm in any 1 MHz band.				
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.15 to 5.25 GHz Band				

Tx Data Rate: 6 Mbit

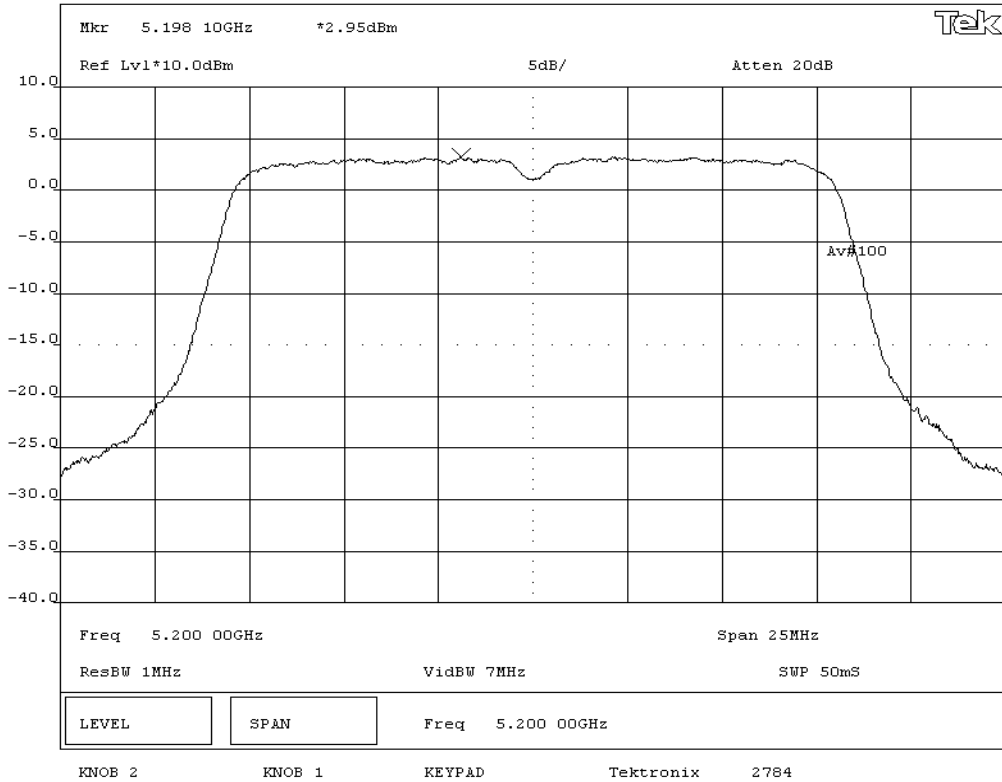
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5180.0	2.9	4.0	1.0	3.9




NORTHWEST EMC		EMISSIONS DATA SHEET		Rev BETA 01/2001
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 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 5.15 - 5.25 GHz band, the peak power spectral density shall not exceed 4dBm in any 1 MHz band.				
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.15 to 5.25 GHz Band				

Tx Data Rate: 6 Mbit

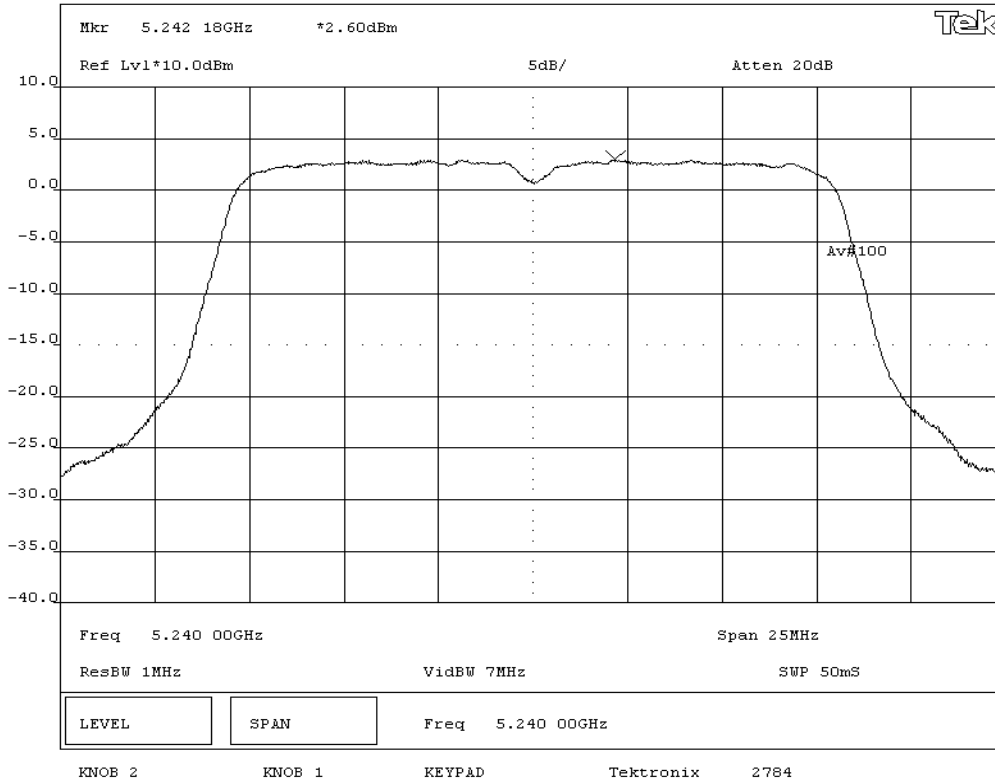
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5200.0	3.0	4.0	1.0	4.0




NORTHWEST EMC		EMISSIONS DATA SHEET		Rev BETA 01/2001
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 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 5.15 - 5.25 GHz band, the peak power spectral density shall not exceed 4dBm in any 1 MHz band.				
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.15 to 5.25 GHz Band				

Tx Data Rate: 6 Mbit

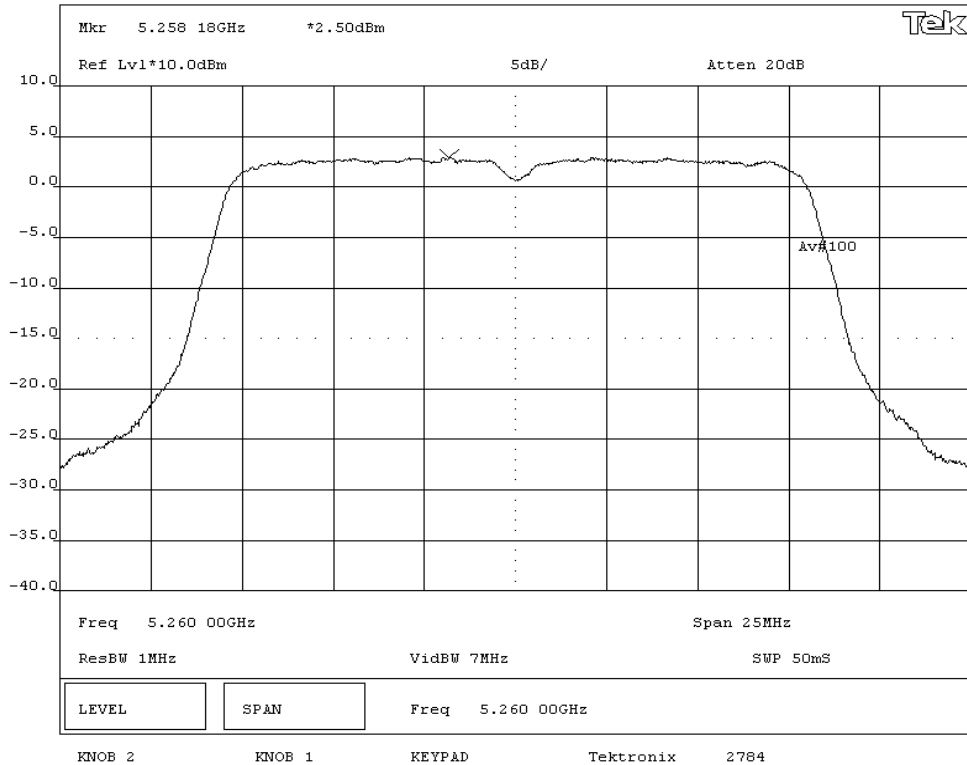
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5240.0	2.6	4.0	1.0	3.6




NORTHWEST 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		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 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 5.25 - 5.35 GHz band, the peak power spectral density shall not exceed 11dBm in any 1 MHz band.					
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.25 to 5.35 GHz Band					

Tx Data Rate: 6 Mbit

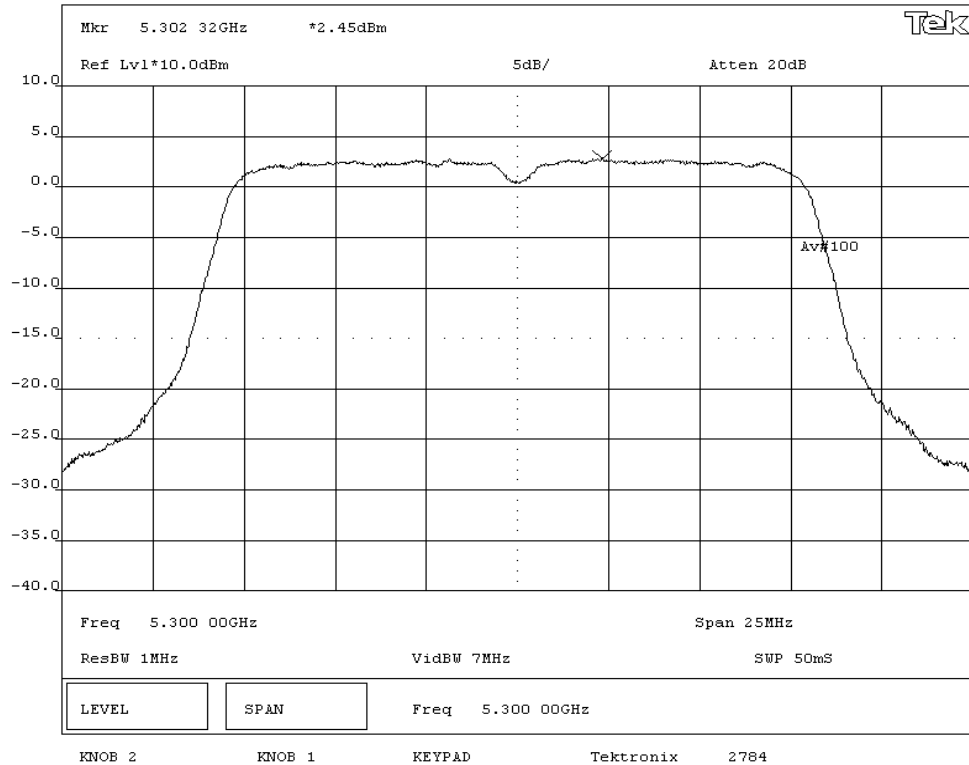
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5260.0	2.5	11.0	1.0	3.5




NORTHWEST 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		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 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 5.25 - 5.35 GHz band, the peak power spectral density shall not exceed 11dBm in any 1 MHz band.					
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.25 to 5.35 GHz Band					

Tx Data Rate: 6 Mbit

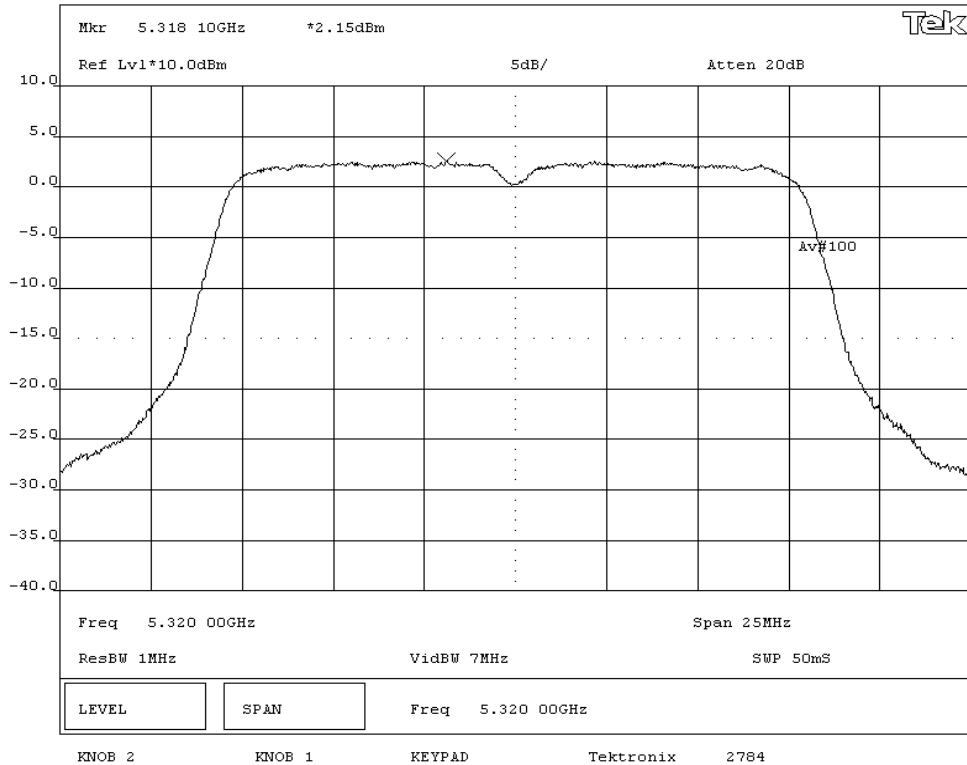
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5300.0	2.5	11.0	1.0	3.5




NORTHWEST 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		Humidity: 38% RH			
Customer Ref. No.: N/A		Tested by: Greg Kiemel		Job Site: EV06	
		Power: 120 V, 60 Hz			
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 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 5.25 - 5.35 GHz band, the peak power spectral density shall not exceed 11dBm in any 1 MHz band.					
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.25 to 5.35 GHz Band					

Tx Data Rate: 6 Mbit

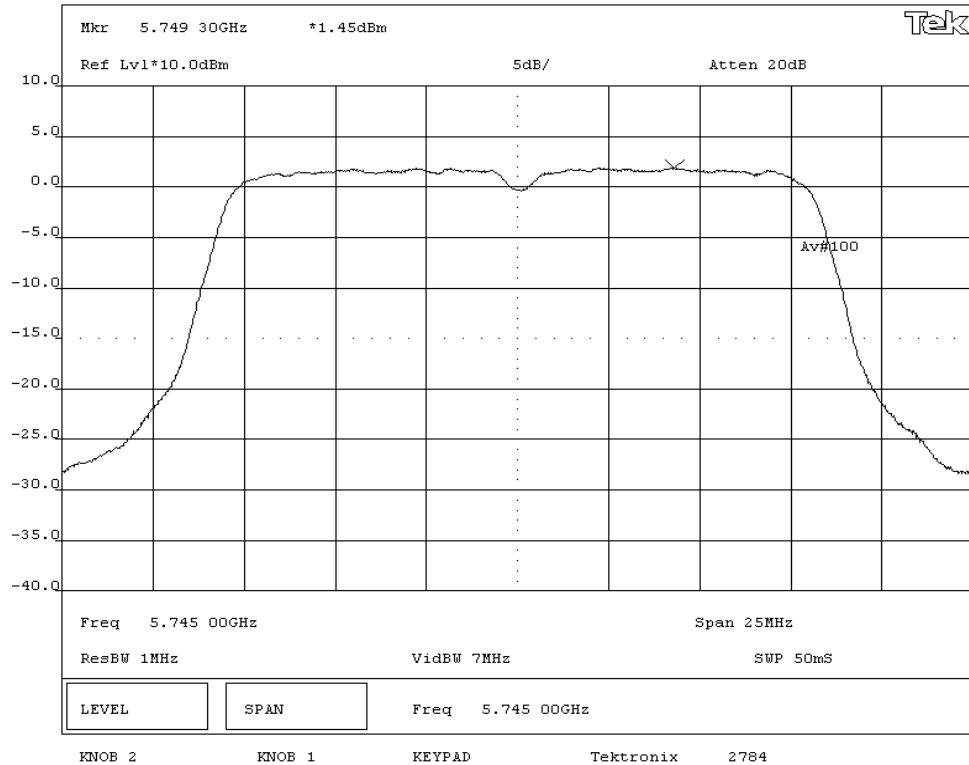
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5320.0	2.2	11.0	1.0	3.2




NORTHWEST 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	Humidity:	38% RH		
Customer Ref. No.:	N/A	Tested by:	Greg Kiemel	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 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 power spectral density shall not exceed 17dBm in any 1 MHz band.					
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.725 to 5.825 GHz Band					

Tx Data Rate: 6 Mbit

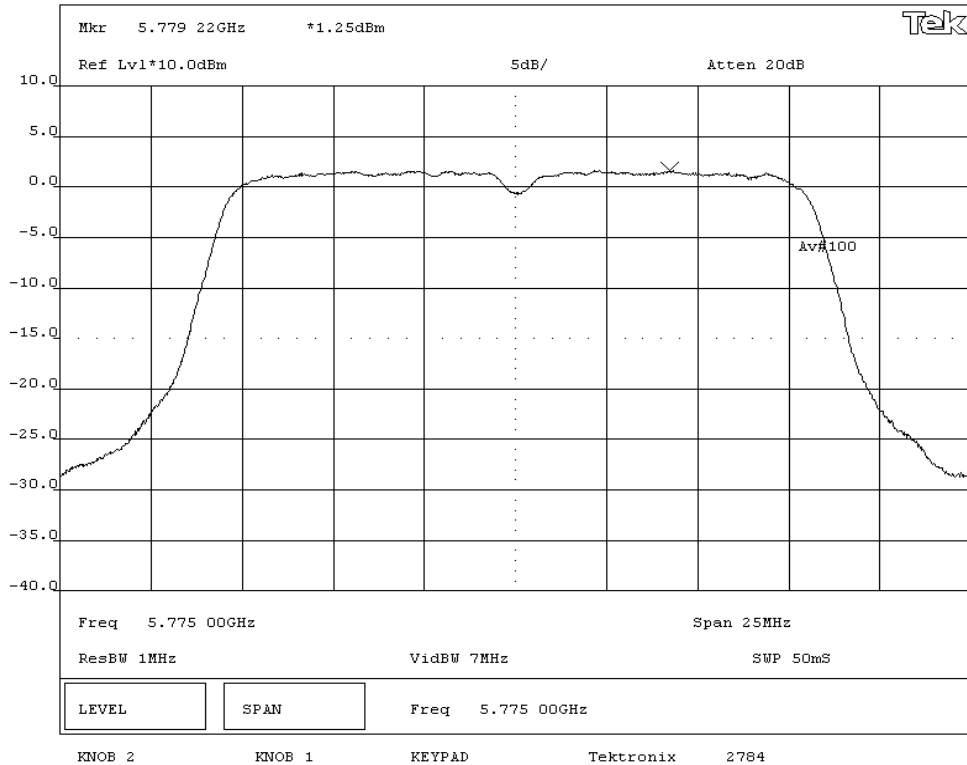
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5745.0	1.5	17.0	1.0	2.5




NORTHWEST 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			Humidity: 38% RH	
Customer Ref. No.: N/A	Tested by: Greg Kiemel	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 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 power spectral density shall not exceed 17dBm in any 1 MHz band.				
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.725 to 5.825 GHz Band				

Tx Data Rate: 6 Mbit

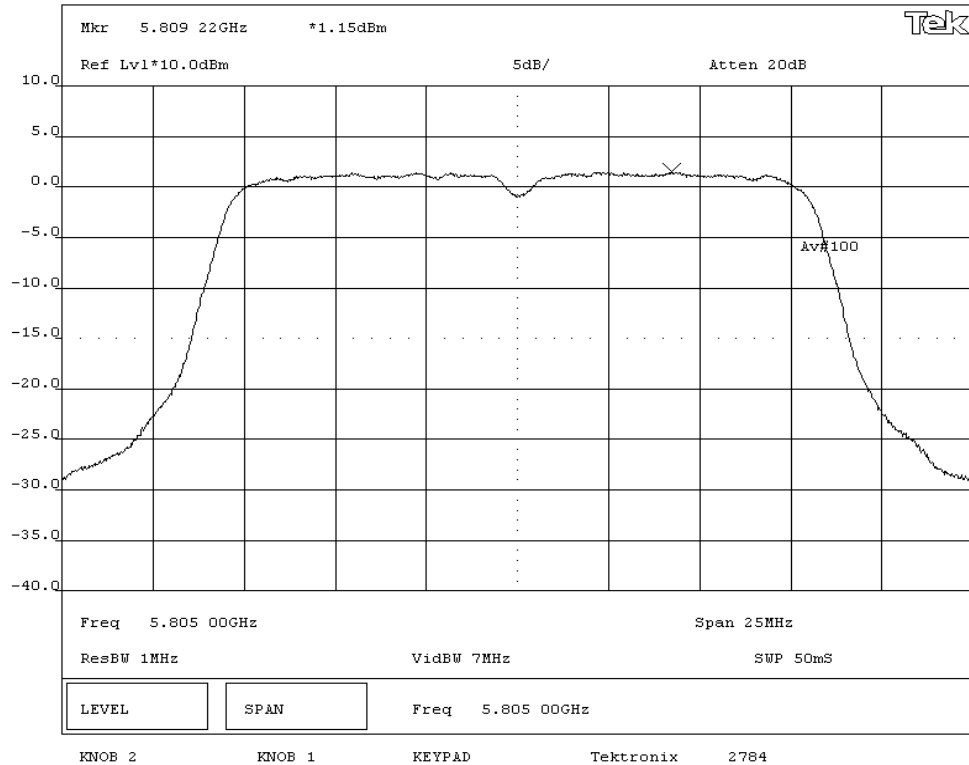
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5775.0	1.3	17.0	1.0	2.3




NORTHWEST 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			Humidity: 38% RH		
Customer Ref. No.: N/A		Tested by: Greg Kiemel		Job Site: EV06	
		Power: 120 V, 60 Hz			
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 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 power spectral density shall not exceed 17dBm in any 1 MHz band.					
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.725 to 5.825 GHz Band					

Tx Data Rate: 6 Mbit

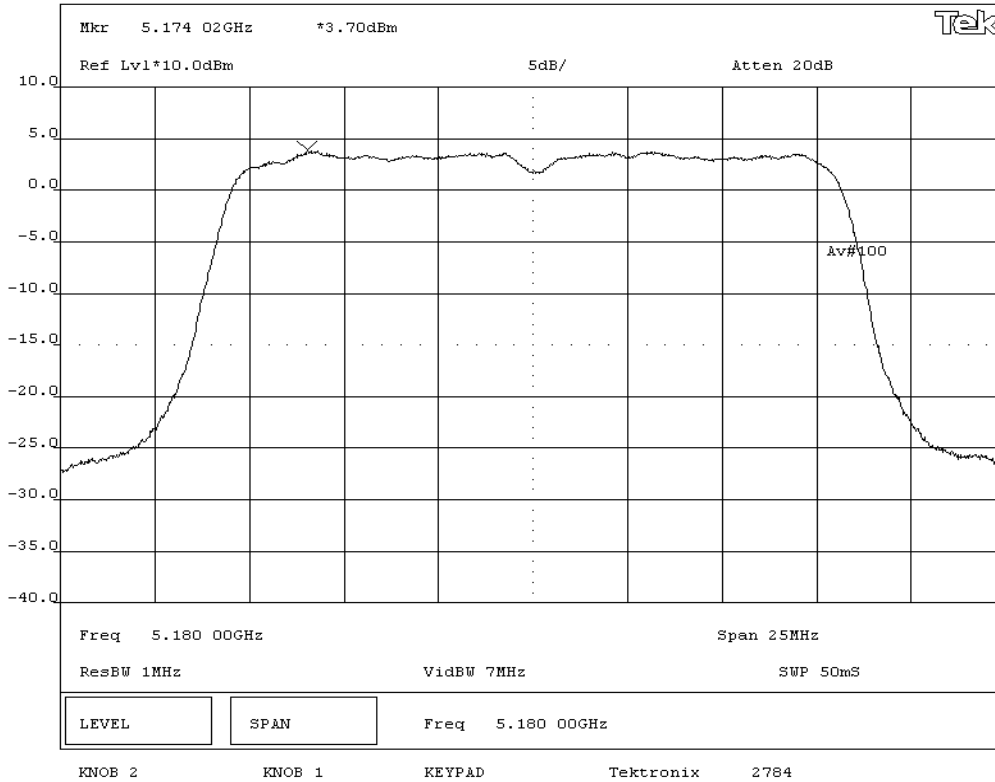
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5805.0	1.2	17.0	1.0	2.2




NORTHWEST EMC		EMISSIONS DATA SHEET		Rev BETA 01/2001
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 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 5.15 - 5.25 GHz band, the peak power spectral density shall not exceed 4dBm in any 1 MHz band.				
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.15 to 5.25 GHz Band				

Tx Data Rate: 36 Mbit

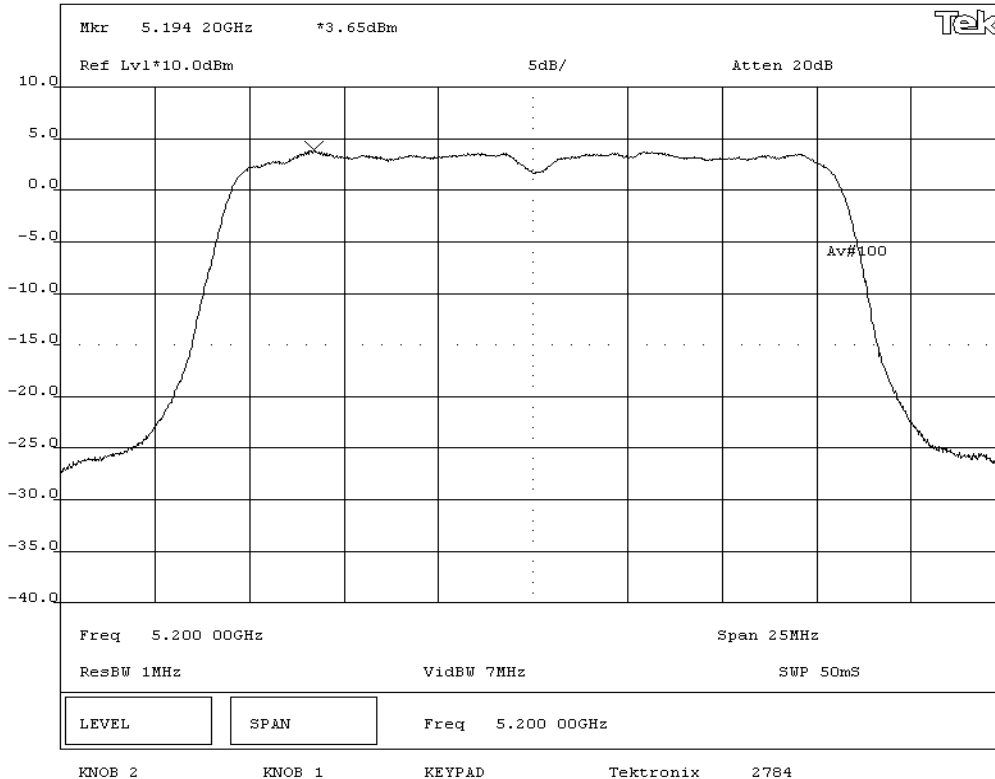
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5180.0	3.7	4.0	1.0	4.7




NORTHWEST EMC		EMISSIONS DATA SHEET		Rev BETA 01/2001
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 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 5.15 - 5.25 GHz band, the peak power spectral density shall not exceed 4dBm in any 1 MHz band.				
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.15 to 5.25 GHz Band				

Tx Data Rate: 36 Mbit

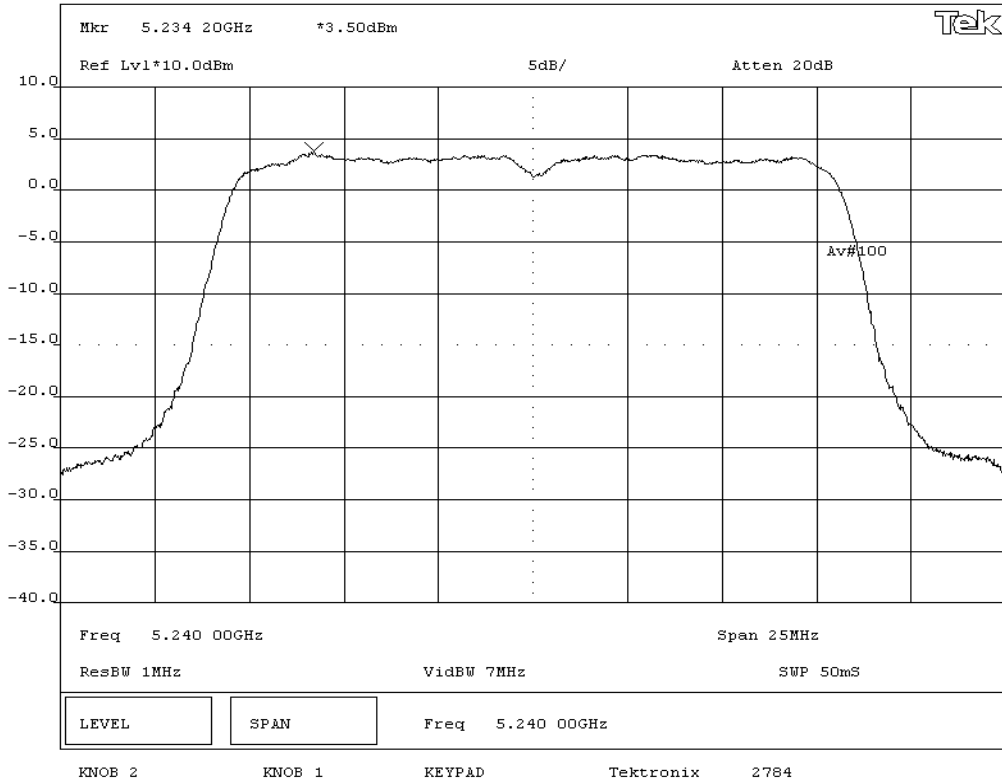
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5200.0	3.7	4.0	1.0	4.7




NORTHWEST EMC		EMISSIONS DATA SHEET		Rev BETA 01/2001
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 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 5.15 - 5.25 GHz band, the peak power spectral density shall not exceed 4dBm in any 1 MHz band.				
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.15 to 5.25 GHz Band				

Tx Data Rate: 36 Mbit

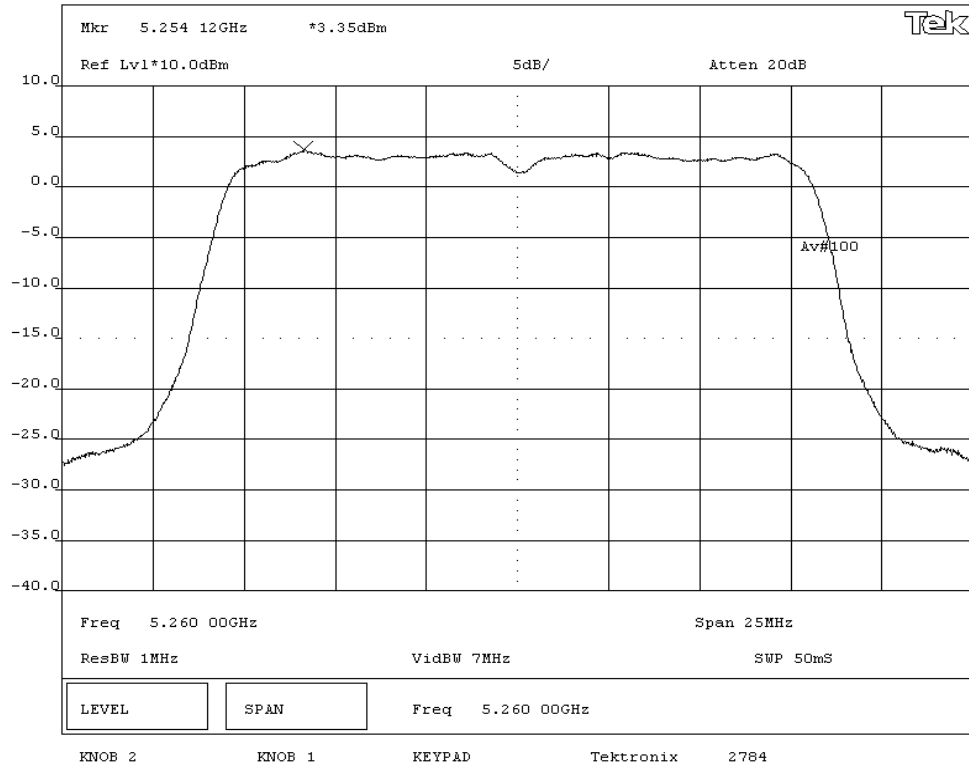
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5240.0	3.5	4.0	1.0	4.5




NORTHWEST 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		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 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 5.25 - 5.35 GHz band, the peak power spectral density shall not exceed 11dBm in any 1 MHz band.					
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.25 to 5.35 GHz Band					

Tx Data Rate: 36 Mbit

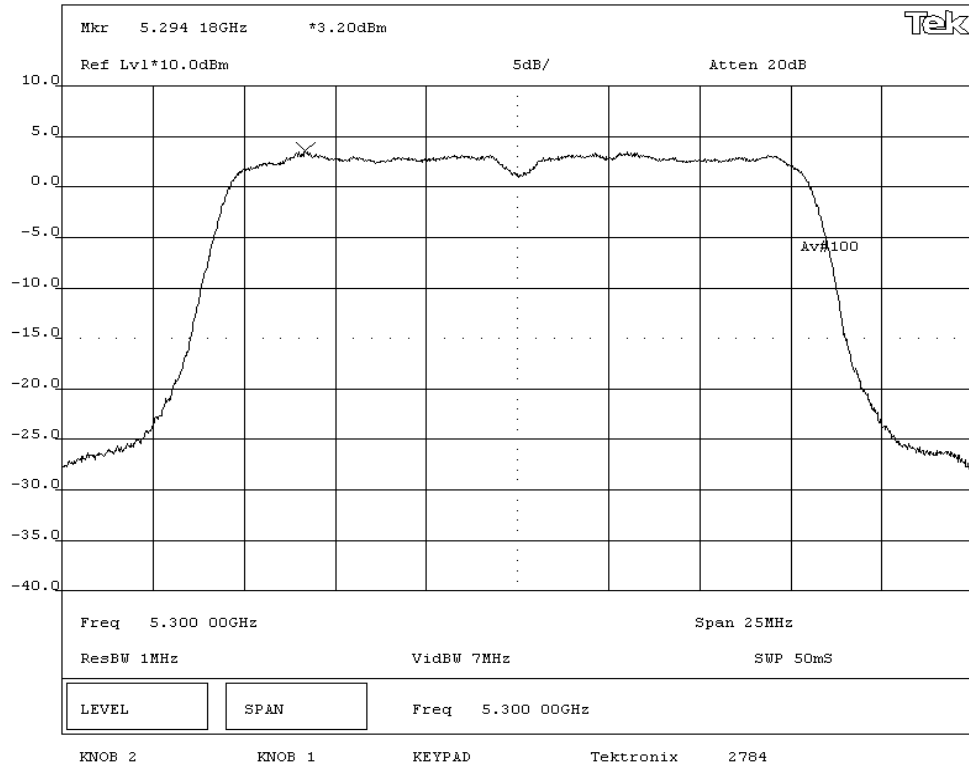
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5260.0	3.4	11.0	1.0	4.4




NORTHWEST 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		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 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 5.25 - 5.35 GHz band, the peak power spectral density shall not exceed 11dBm in any 1 MHz band.					
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.25 to 5.35 GHz Band					

Tx Data Rate: 36 Mbit

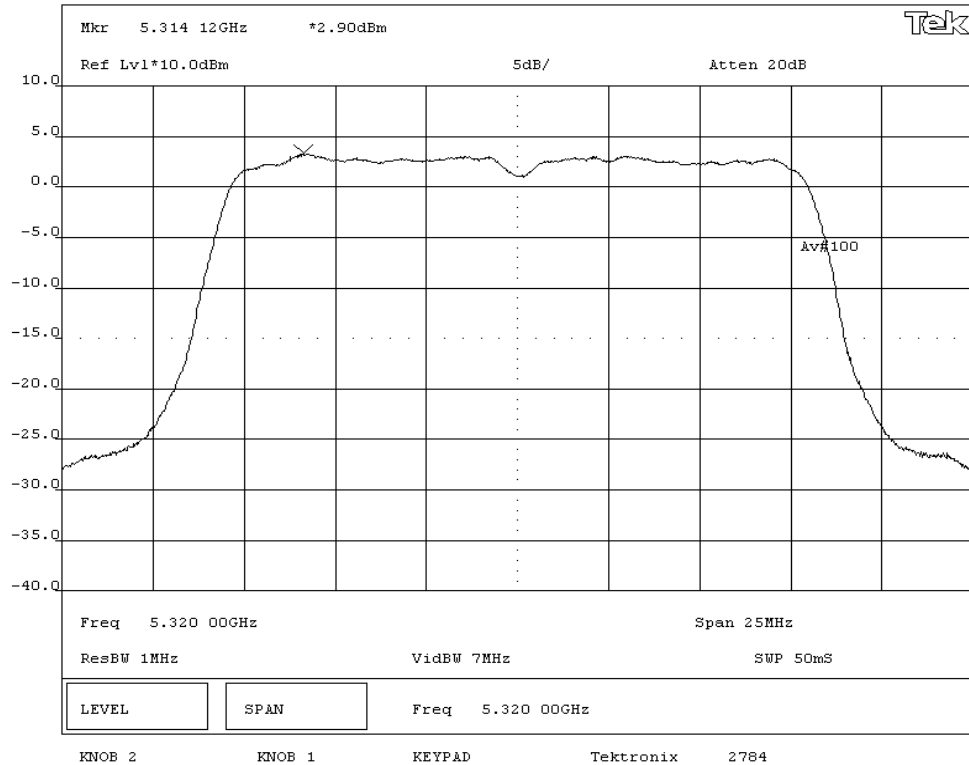
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5300.0	3.2	11.0	1.0	4.2




NORTHWEST 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		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 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 5.25 - 5.35 GHz band, the peak power spectral density shall not exceed 11dBm in any 1 MHz band.					
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.25 to 5.35 GHz Band					

Tx Data Rate: 36 Mbit

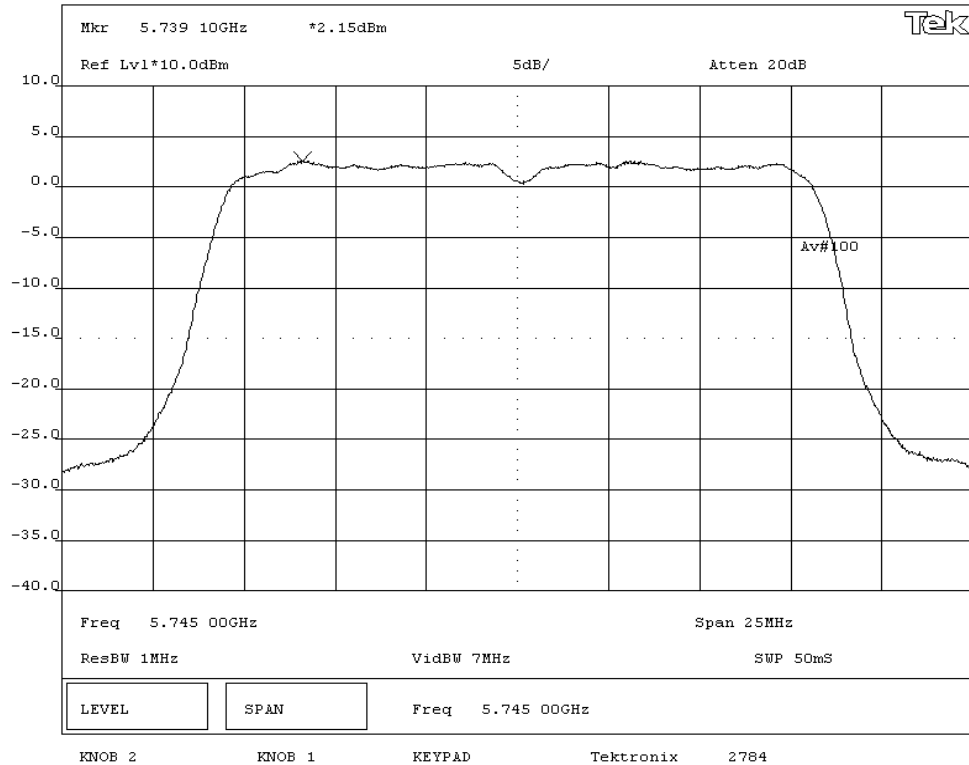
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5320.0	2.9	11.0	1.0	3.9




NORTHWEST 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	Humidity:	38% RH		
Customer Ref. No.:	N/A	Tested by:	Greg Kiemel	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 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 power spectral density shall not exceed 17dBm in any 1 MHz band.					
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.725 to 5.825 GHz Band					

Tx Data Rate: 36 Mbit

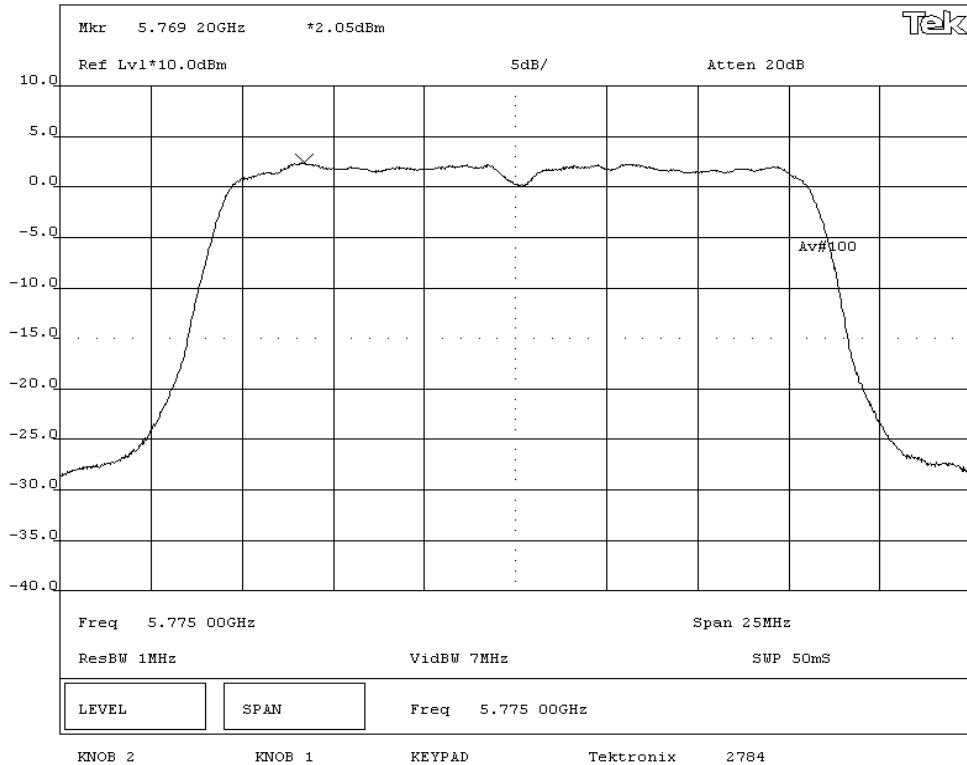
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5745.0	2.2	17.0	1.0	3.2




NORTHWEST 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		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 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 power spectral density shall not exceed 17dBm in any 1 MHz band.					
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.725 to 5.825 GHz Band					

Tx Data Rate: 36 Mbit

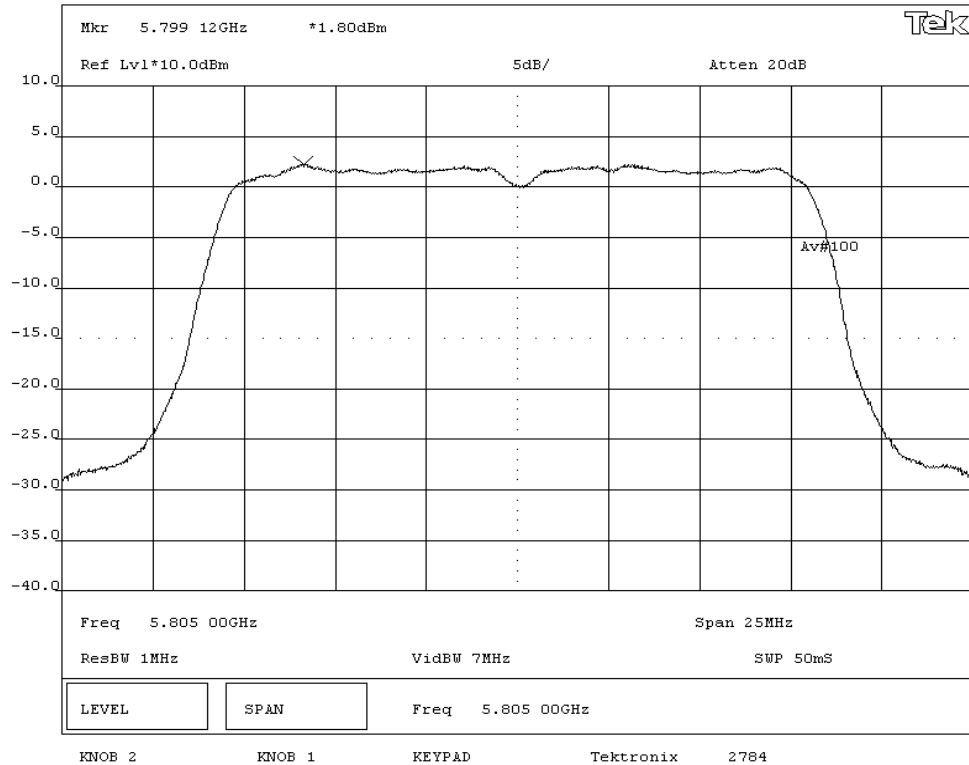
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5775.0	2.1	17.0	1.0	3.1




NORTHWEST 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				Humidity: 38% RH
Customer Ref. No.: N/A	Tested by: Greg Kiemel			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 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 power spectral density shall not exceed 17dBm in any 1 MHz band.				
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.725 to 5.825 GHz Band				

Tx Data Rate: 36 Mbit

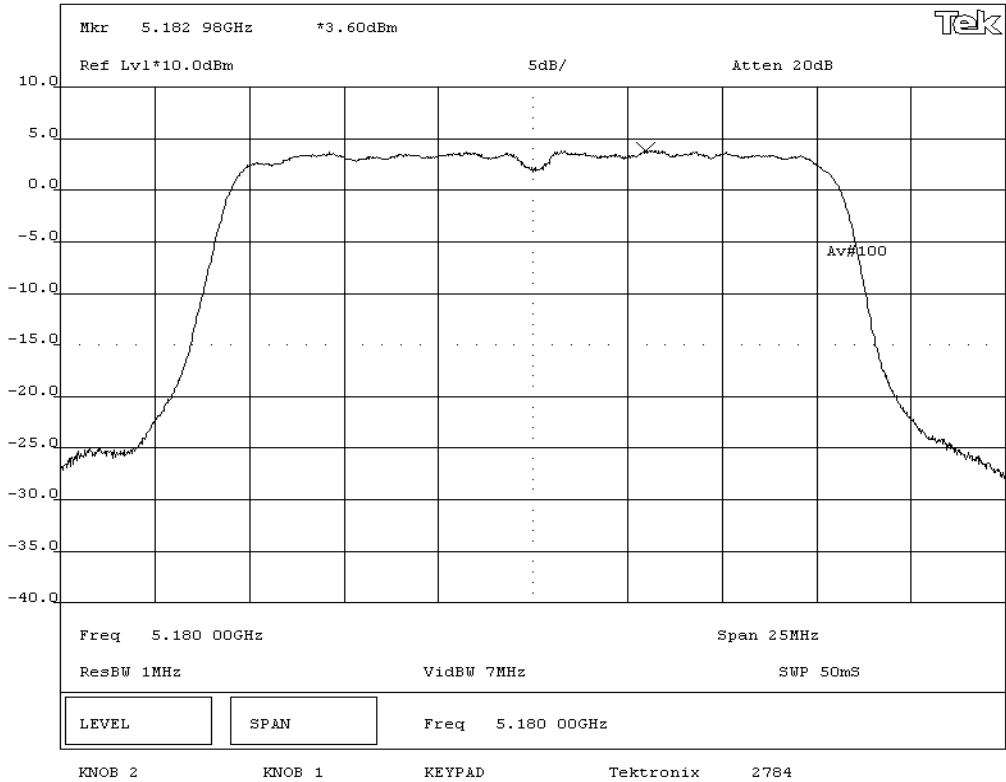
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5805.0	1.8	17.0	1.0	2.8




NORTHWEST EMC		EMISSIONS DATA SHEET		Rev BETA 01/2001
EUT: 802MIAG-CV60		Work Order: ITRM0041		
Serial Number: 002-032		Date: 09/27/04		
Customer: Intermecc 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 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 5.15 - 5.25 GHz band, the peak power spectral density shall not exceed 4dBm in any 1 MHz band.				
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.15 to 5.25 GHz Band				

Tx Data Rate: 54 Mbit

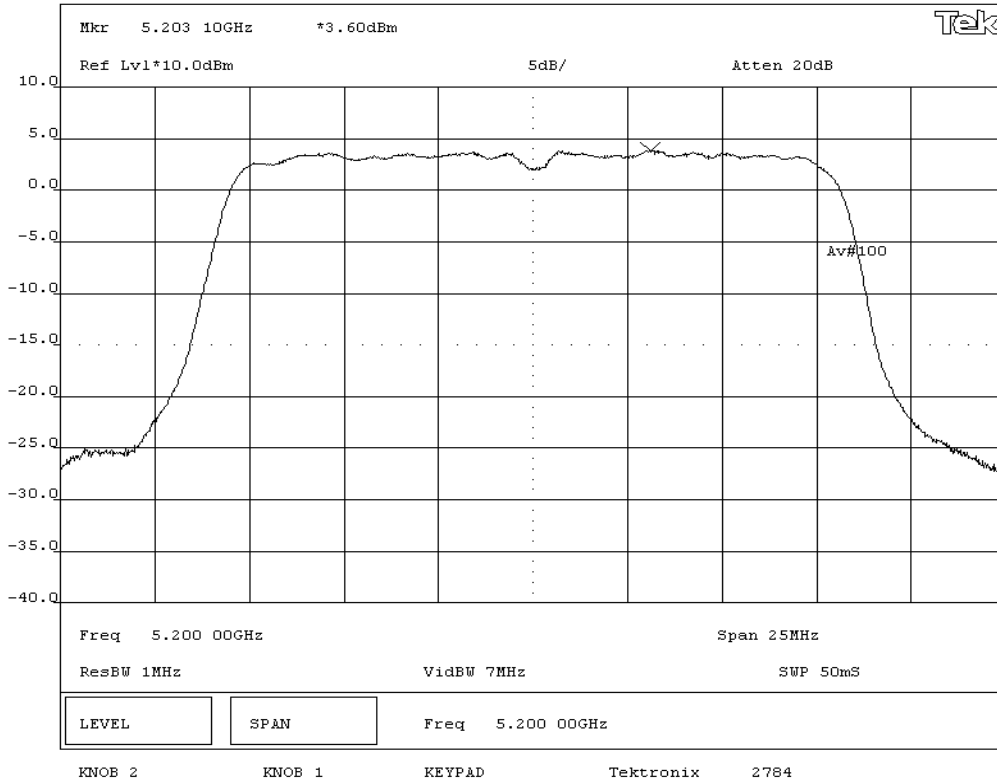
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5180.0	3.6	4.0	1.0	4.6




NORTHWEST EMC		EMISSIONS DATA SHEET		Rev BETA 01/2001
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 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 5.15 - 5.25 GHz band, the peak power spectral density shall not exceed 4dBm in any 1 MHz band.				
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.15 to 5.25 GHz Band				

Tx Data Rate: 54 Mbit

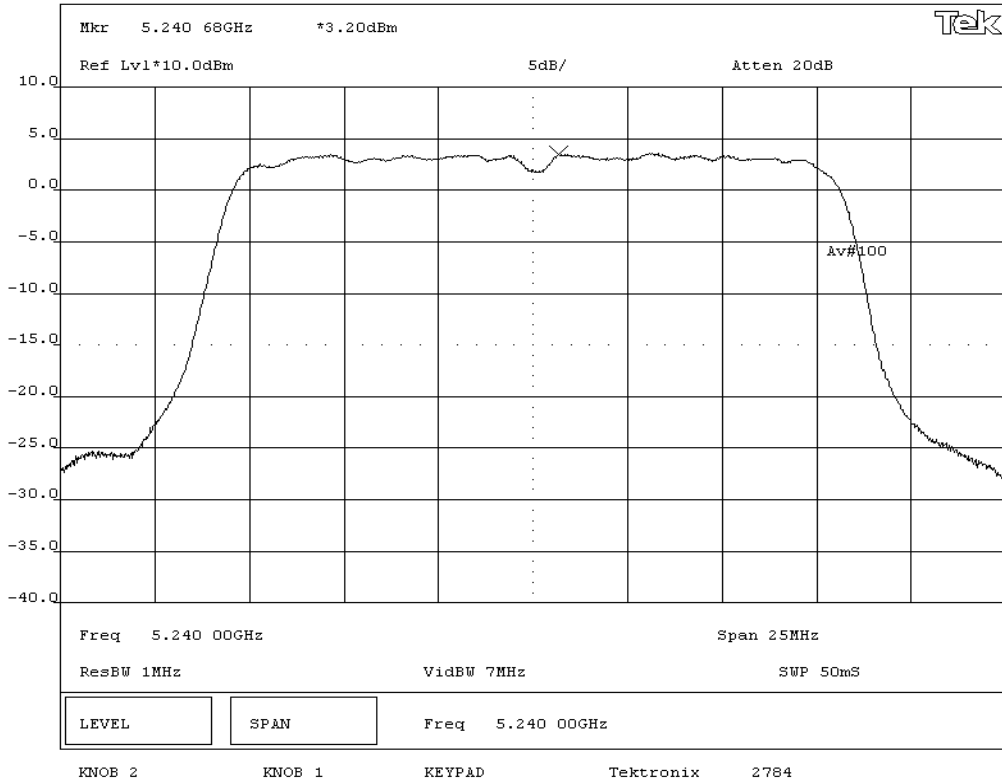
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5200.0	3.6	4.0	1.0	4.6




NORTHWEST EMC		EMISSIONS DATA SHEET		Rev BETA 01/2001
EUT: 802MIAG-CV60		Work Order: ITRM0041		
Serial Number: 002-032		Date: 09/27/04		
Customer: Intermec Corporation		Temperature: 72F		
Attendees: None	Tested by: Greg Klemel	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 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 5.15 - 5.25 GHz band, the peak power spectral density shall not exceed 4dBm in any 1 MHz band.				
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.15 to 5.25 GHz Band				

Tx Data Rate: 54 Mbit

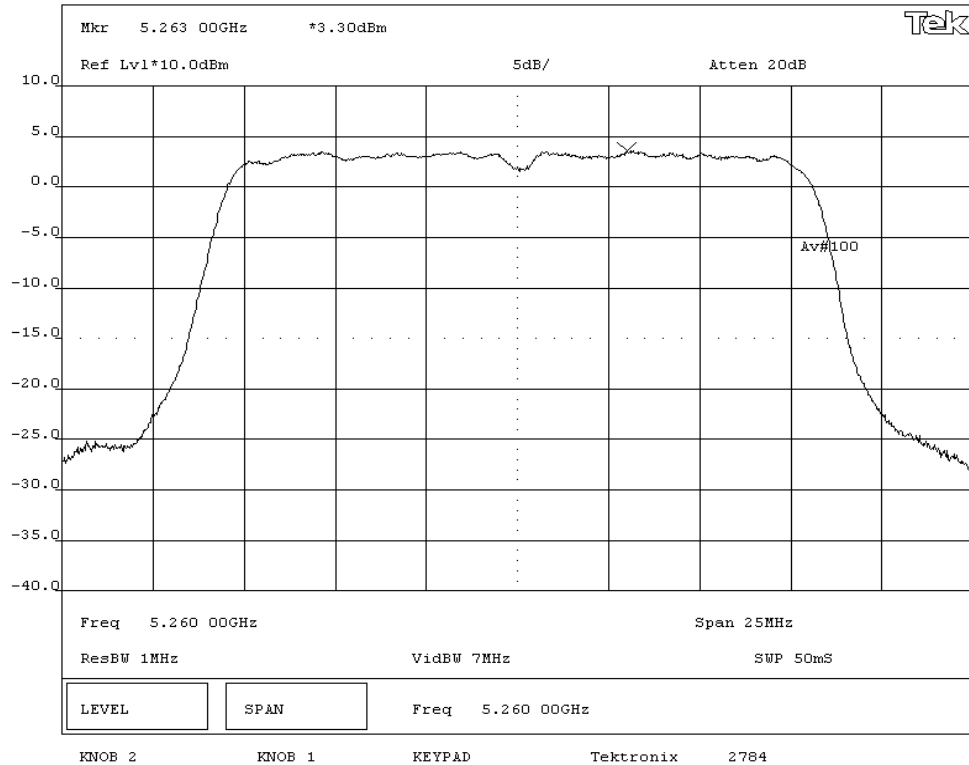
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5240.0	3.2	4.0	1.0	4.2




NORTHWEST 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			Humidity: 38% RH		
Customer Ref. No.: N/A		Tested by: Greg Kiemel		Job Site: EV06	
		Power: 120 V, 60 Hz			
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 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 5.25 - 5.35 GHz band, the peak power spectral density shall not exceed 11dBm in any 1 MHz band.					
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.25 to 5.35 GHz Band					

Tx Data Rate: 54 Mbit

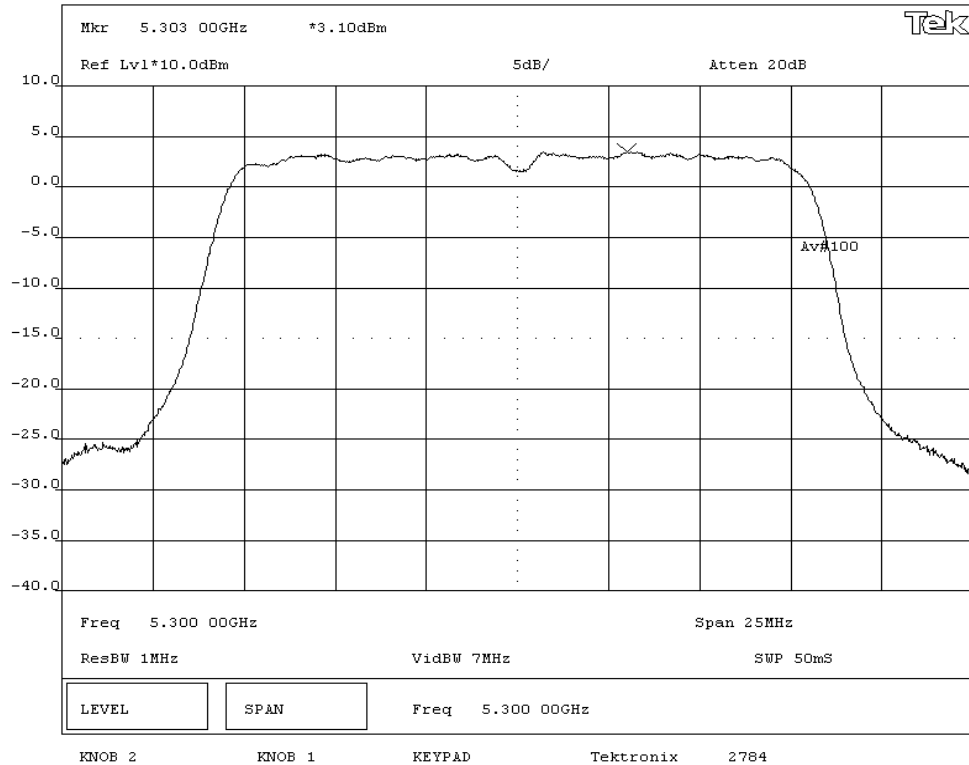
Frequency (MHz)	Peak Power Spectral Density (dBm)	Spec (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)
5260.0	3.3	11.0	1.0	4.3




NORTHWEST 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		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 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 5.25 - 5.35 GHz band, the peak power spectral density shall not exceed 11dBm in any 1 MHz band.					
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.25 to 5.35 GHz Band					

Tx Data Rate: 54 Mbit

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



NORTHWEST 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		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 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 5.25 - 5.35 GHz band, the peak power spectral density shall not exceed 11dBm in any 1 MHz band.					
If the antenna gain is greater than 6 dBi, the peak power spectral density must 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 Power Spectral Density - Low Channel - 5.25 to 5.35 GHz Band					

Tx Data Rate: 54 Mbit

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

