INTERMEC Technologies Corporation

802MIG2 Radio in WA21 & WA22 Access Points

Test Report

October 30, 2003

Report No. INMC0088

Report Prepared By:

1-888-EMI-CERT

NORTHWEST EMC

22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test

Issue Date: October 30, 2003
INTERMEC Technologies Corporation
Model: 802MIG2 Radio in WA21 & WA22 Access Points

Emissions		
Description	**Pass**	**Fail**
FCC 15.247(a):2003 Occupied Bandwidth	☒	☐
FCC 15.247(b):2003 Output Power	☒	☐
FCC 15.247(c):2003 Band Edge Compliance	☒	☐
FCC 15.247(c):2003 Spurious Radiated Emissions	☒	☐
FCC 15.247(d):2003 Power Spectral Density	☒	☐
FCC 15.247(c):2003 Spurious Conducted Emissions	☒	☐
FCC 15.207:2003 AC Powerline Conducted Emissions	☒	☐

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: The Open Area Test Sites, 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.

TCB: 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: Accreditation has been granted to Northwest EMC, Inc. to perform the Electromagnetic Compatibility (EMC) tests described in the Scope of Accreditation. Assessment performed to ISO/IEC 17025. Certificate Number: 200629-0, Certificate Number: 200630-0.

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)

TÜV Product Service: Included in TUV Product Service Group's Listing of Recognized Laboratories. It qualifies in connection with the TUV Certification after Recognition of Agent's Testing Program for the product categories and/or standards shown in TUV's current Listing of CARAT Laboratories available from TUV. A certificate was issued to represent that this laboratory continues to meet TUV's CARAT Program requirements. Certificate No. USA0302C

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.

Accreditations and Authorizations

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.

Industry Canada: Accredited by Industry Canada for performance of radiated measurements. Our open area test sites comply with RSS 212, Issue 1 (Provisional).

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. - Evergreen: C-1071 and R-1025, Trails End: C-694 and R-677, Sultan: C-905, R-871 and R-1172, North Sioux City C-1246, R-1185 and R-1217)*

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.

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

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

	NVLAP	FCC	NIST	TUV PS	TUV Rheinland	Nemko	Technology International	Industry Canada	BSMI	VCCI	GOST	NATA
IEC 61000-4-2	✓			✓	✓	✓	✓					
IEC 61000-4-3	✓			✓	✓	✓	✓					
IEC 61000-4-4	✓			✓	✓	✓	✓					
IEC 61000-4-5	✓			✓	✓	✓	✓					
IEC 61000-4-6	✓			✓	✓	✓	✓					
IEC 61000-4-8	✓			✓	✓	✓	✓					
IEC 61000-4-11	✓			✓	✓	✓	✓					
IEC 61000-3-2	✓			✓	✓	✓	✓					
IEC 61000-3-3	✓			✓	✓	✓	✓					
AS/NZS 3548	✓											✓
CNS 13438	✓								✓			
ISO/IEC17025	✓			✓	✓	✓	✓		✓			
Radiated Emissions	✓			✓	✓	✓	✓	✓	✓	✓	✓	
Conducted Emissions	✓			✓	✓	✓	✓	✓	✓	✓	✓	
OATS Sites	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	
Hillsboro 5-Meter Chamber (EV01)	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	
TCB for Licensed Transmitters		✓										
TCB for un-Licensed Transmitters		✓										
Cab for R&TTE			✓									
CAB for EMC			✓									

This chart represents only a partial NVLAP Scope, please reference http://ts.nist.gov/ts/htdocs/210/214/214.htm for the full NVLAP Scope of Accreditation

FCC: The Open Area Test Sites, 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.

TCB: 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.

A2LA: Accreditation has been granted to Northwest EMC, Inc. to perform the Electromagnetic Compatibility (EMC) tests described in the Scope of Accreditation. Assessment performed to ISO/IEC 17025.
Certificate Number: 1936-01, Certificate Number: 1936-02, Certificate Number 1936-03

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. (A2LA)

TÜV Product Service: Included in TUV Product Service Group's Listing of Recognized Laboratories. It qualifies in connection with the TUV Certification after Recognition of Agent's Testing Program for the product categories and/or standards shown in TUV's current Listing of CARAT Laboratories available from TUV. A certificate was issued to represent that this laboratory continues to meet TUV's CARAT Program requirements.
Certificate No. USA0302C

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.

Accreditations and Authorizations

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.

Industry Canada: Accredited by Industry Canada for performance of radiated measurements. Our open area test sites comply with RSP 100, Issue 7, section 3.3.

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. - Evergreen: C-1071 and R-1025, Trails End: C-694 and R-677, Sultan: C-905, R-871 and R-1172, North Sioux City C-1246, R-1185 and R-1217)*

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.

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

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

	A2LA	FCC	NIST	TUV PS	TUV Rheinland	Nemko	Technology International	Industry Canada	BSMI	VCCI	GOST	NATA
IEC 61000-4-2	✓			✓	✓	✓	✓					
IEC 61000-4-3	✓			✓	✓	✓	✓					
IEC 61000-4-4	✓			✓	✓	✓	✓					
IEC 61000-4-5	✓			✓	✓	✓	✓					
IEC 61000-4-6	✓			✓	✓	✓	✓					
IEC 61000-4-8	✓			✓	✓	✓	✓					
IEC 61000-4-11	✓			✓	✓	✓	✓					
IEC 61000-3-2	✓			✓	✓	✓	✓					
IEC 61000-3-3	✓			✓	✓	✓	✓					
AS/NZS 3548	✓											✓
CNS 13438	✓								✓			
ISO/IEC17025	✓			✓	✓	✓	✓		✓			
Radiated Emissions	✓			✓	✓	✓	✓	✓	✓	✓	✓	
Conducted Emissions	✓			✓	✓	✓	✓	✓	✓	✓	✓	
OATS Sites	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	
Hillsboro 5-Meter Chamber (EV01)	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	
TCB for Licensed Transmitters		✓										
TCB for un-Licensed Transmitters		✓										
Cab for R&TTE			✓									
CAB for EMC			✓									

This chart represents only a partial A2LA Scope, please reference http://www.a2la2.net/scopepdf/1936-01.pdf for the full A2LA Scope of Accreditation

What is measurement uncertainty?

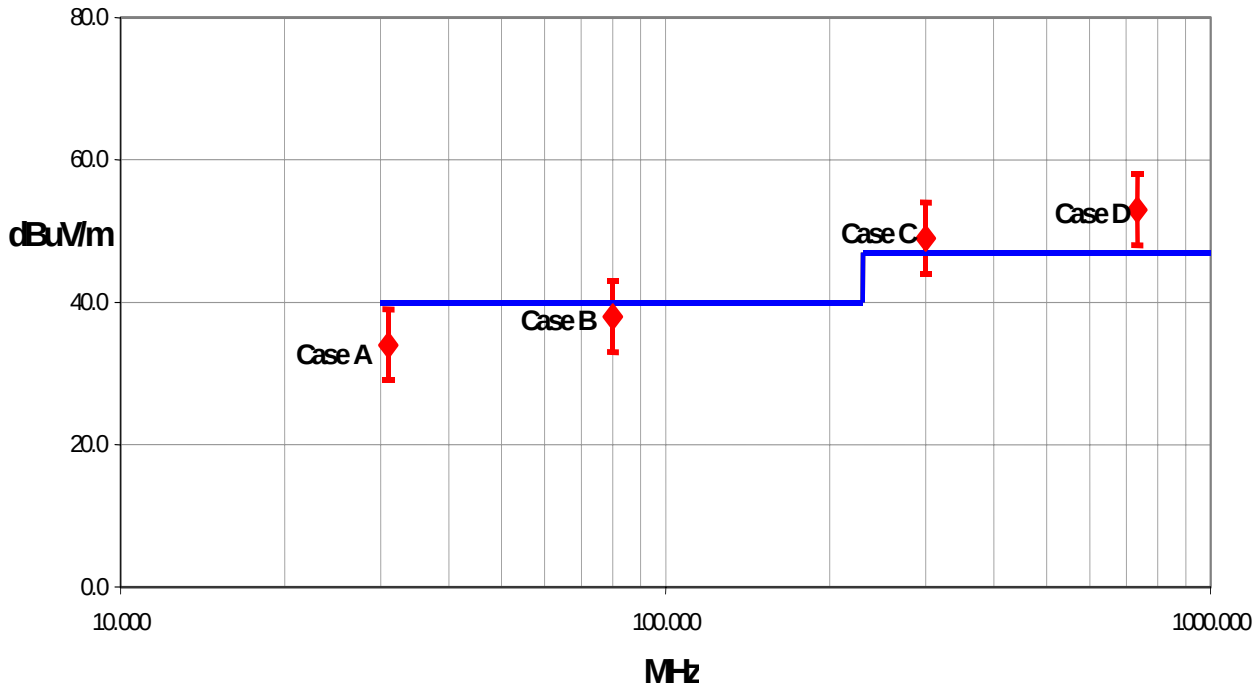
When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. The following 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 3m	Biconical Antenna 10m	Log Periodic Antenna 3m	Log Periodic Antenna 10m	Dipole Antenna 3m	Dipole Antenna 10m
Combined standard uncertainty $u_c(y)$	normal	+ 1.86 - 1.88	+ 1.82 - 1.87	+ 2.23 - 1.41	+ 1.29 - 1.26	+ 1.31 - 1.27	+ 1.25 - 1.25
Expanded uncertainty ***U*** (level of confidence ≈ 95%)	normal (k=2)	+ 3.72 - 3.77	+ 3.64 - 3.73	+ 4.46 -2.81	+ 2.59 - 2.52	+ 2.61 - 2.55	+ 2.49 - 2.49

Radiated Emissions > 1 GHz

Value (dB)

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

Conducted Emissions

	Probability Distribution	Value (+/- dB)
Combined standard uncertainty ***uc(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 ***uc(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 ***uc(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, uc(y) yields a confidence level of only 68%.

Northwest
EMC

Facilities

California

Orange County Facility

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

Oregon

Evergreen Facility

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

Oregon

Trails End Facility

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

South Dakota

North Sioux City Facility

745 N. Derby Lane
P.O. Box 217
North Sioux City, SD 57049
(605) 232-5267
FAX (605) 232-3873

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
Address:	6001 36th Avenue West
City, State, Zip:	Everett, WA 98203-9280
Test Requested By:	Cheryl White
Model:	802MIG2 radio in WA21 and WA22 Access Points
First Date of Test:	06-25-2003
Last Date of Test:	10-13-2003
Receipt Date of Samples:	06-25-2003
Equipment Design Stage:	Production
Equipment Condition:	No visual damage.

Information Provided by the Party Requesting the Test

Clocks/Oscillators:	Not provided at time of test.
I/O Ports:	Serial and ethernet port on host access points

Functional Description of the EUT (Equipment Under Test):

802.11(b)/(g) radio module for use in Intermec's WA21 and WA22 access points.

Client Justification for EUT Selection:

Production sample

Client Justification for Test Selection

These tests satisfy the requirements for certification under FCC 15.247

Equipment modifications				
Item #	Test	Date	Modification	Note
1	Occupied Bandwidth	06-25-2003	No EMI suppression devices were added or modified during this test.	Same configuration as in previous test.
2	Band Edge Compliance	06-25-2003	No EMI suppression devices were added or modified during this test.	Same configuration as in previous test.
3	Spurious Conducted Emissions	06-25-2003	No EMI suppression devices were added or modified during this test.	Same configuration as in previous test.
4	Power Spectral Density	06-26-2003	No EMI suppression devices were added or modified during this test.	Same configuration as in previous test.
5	AC Powerline Conducted Emissions	07-31-2003	No EMI suppression devices were added or modified during this test.	Same configuration as in previous test.
6	Spurious Radiated Emissions	07-24-2003 to 10-08-2003	No EMI suppression devices were added or modified during this test.	Same configuration as in previous test.
7	Output Power	10-13-2003	No EMI suppression devices were added or modified during this test.	Same configuration as in previous test.

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:
High
Mid
Low

Operating Modes Investigated:
802.11(b)
802.11(g)

Data Rates Investigated:
6 Mbit
11 Mbit
36 Mbit
54 Mbit

Output Power Setting(s) Investigated:
Maximum

Power Input Settings Investigated:
DC from host device

Software\Firmware Applied During Test			
Exercise software	FccTest.exe	Version	1/1/1601
Description			
The system was tested using special software developed to test all functions of the device during the test. The software allowed the selection of transmit channel and data rate. These were varied to produce the highest level of emissions. The OS of the host device was Ver. 0.00.00.0072			

EUT and Peripherals

Description	Manufacturer	Model/Part Number	Serial Number
Radio (EUT)	INTERMEC Technologies	802MIG2	none

Cables

None. No cables were attached to EUT

Measurement Equipment

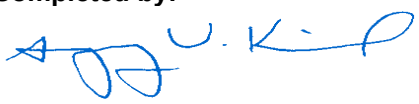
Description	Manufacturer	Model	Identifier	Last Cal	Interval
Spectrum Analyzer	Tektronix	2784	AAO	02/26/2003	24 mo

Test Description

Requirement: Per 47 CFR 15.247(a)(2), the 6 dB bandwidth of a digitally modulated channel must be at least 500kHz. The measurement is made with the spectrum analyzer's resolution bandwidth set to 100kHz, and the video bandwidth set to greater than or equal to the resolution bandwidth.

Configuration: The occupied bandwidth was measured with the EUT set to low, medium, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate using digital modulation.

Completed by:



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(a)(2)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

The minimum 6dB bandwidth is 500KHz

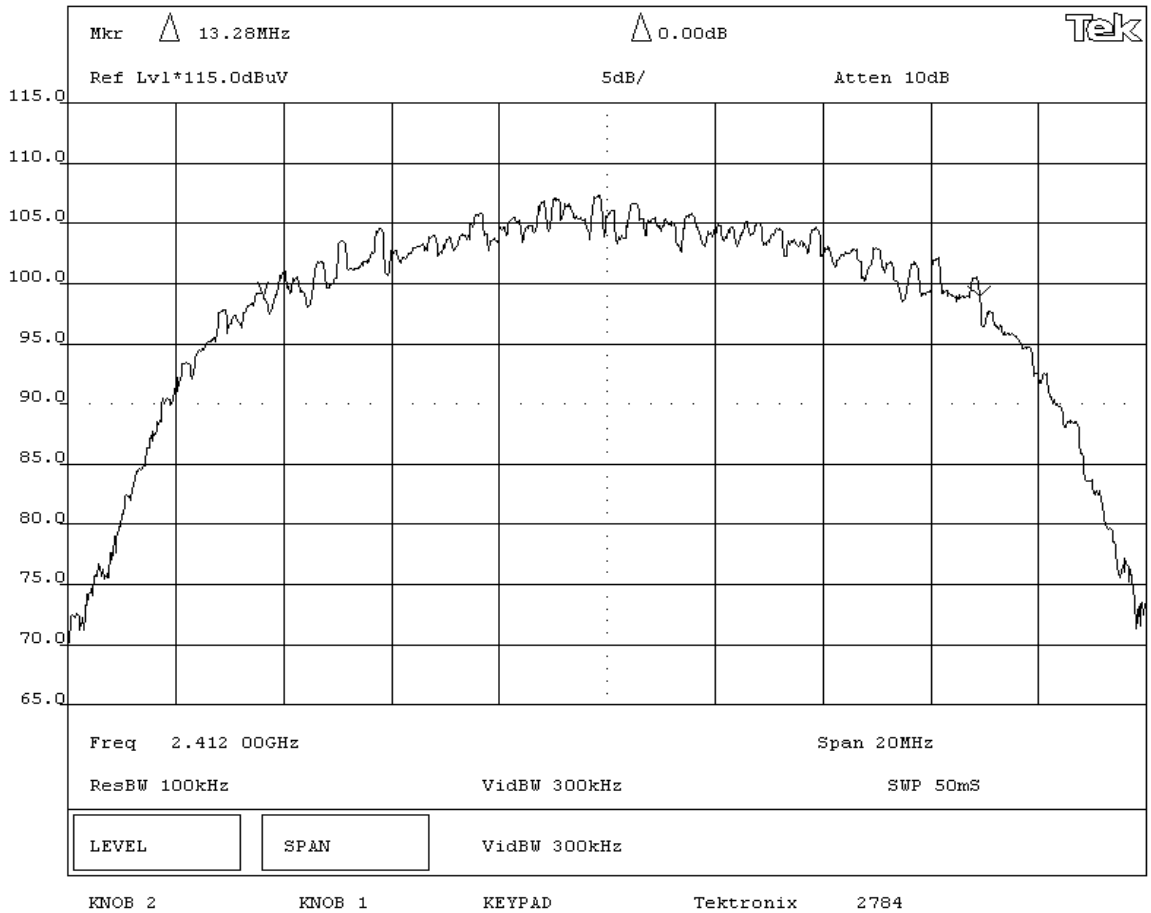
RESULTS	BANDWIDTH
Pass	13.28 MHz

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Occupied Bandwidth - Low Channel



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(a)(2)	Year: 2003	Method:	FCC 97-114, ANSI C63.4	Year: 1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

The minimum 6dB bandwidth is 500KHz

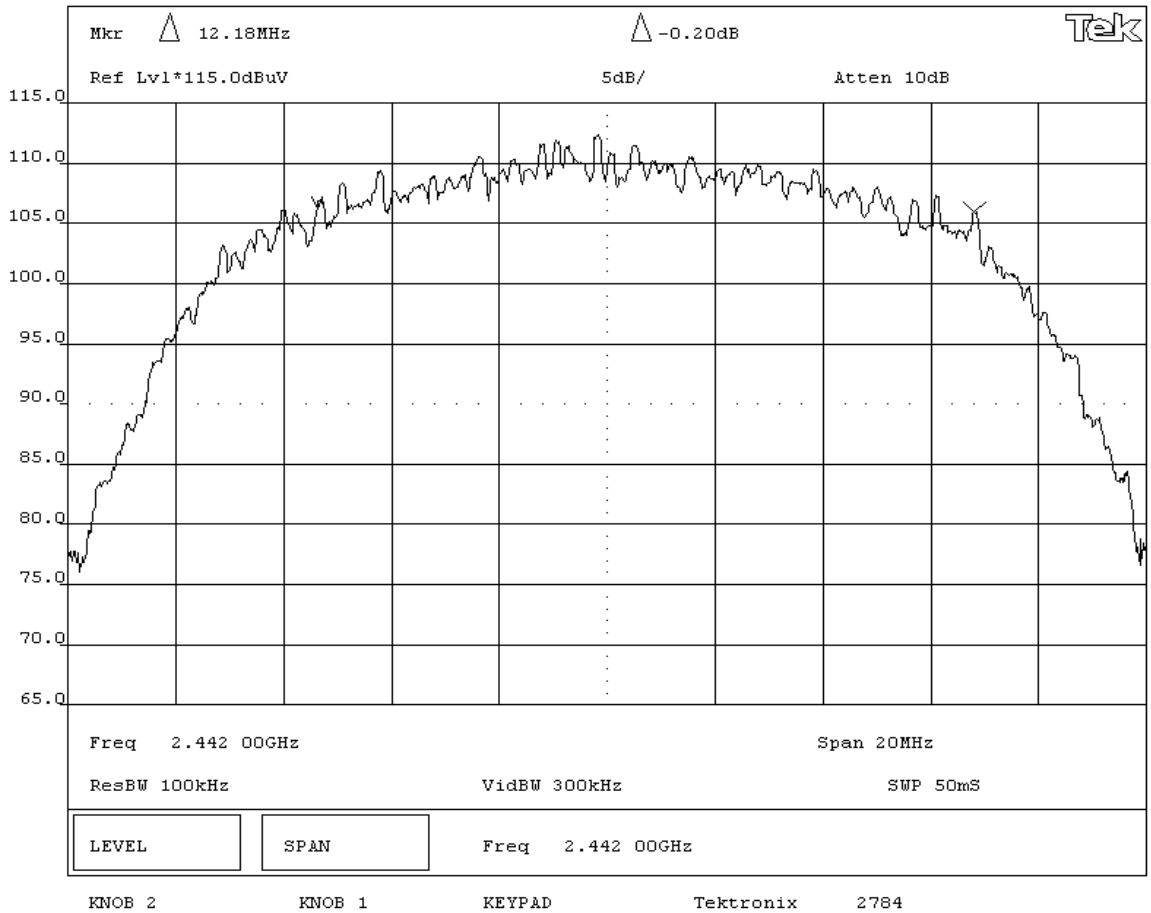
RESULTS	BANDWIDTH
Pass	12.18 MHz

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Occupied Bandwidth - Mid Channel



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(a)(2)	Year: 2003	Method:	FCC 97-114, ANSI C63.4	Year: 1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

The minimum 6dB bandwidth is 500KHz

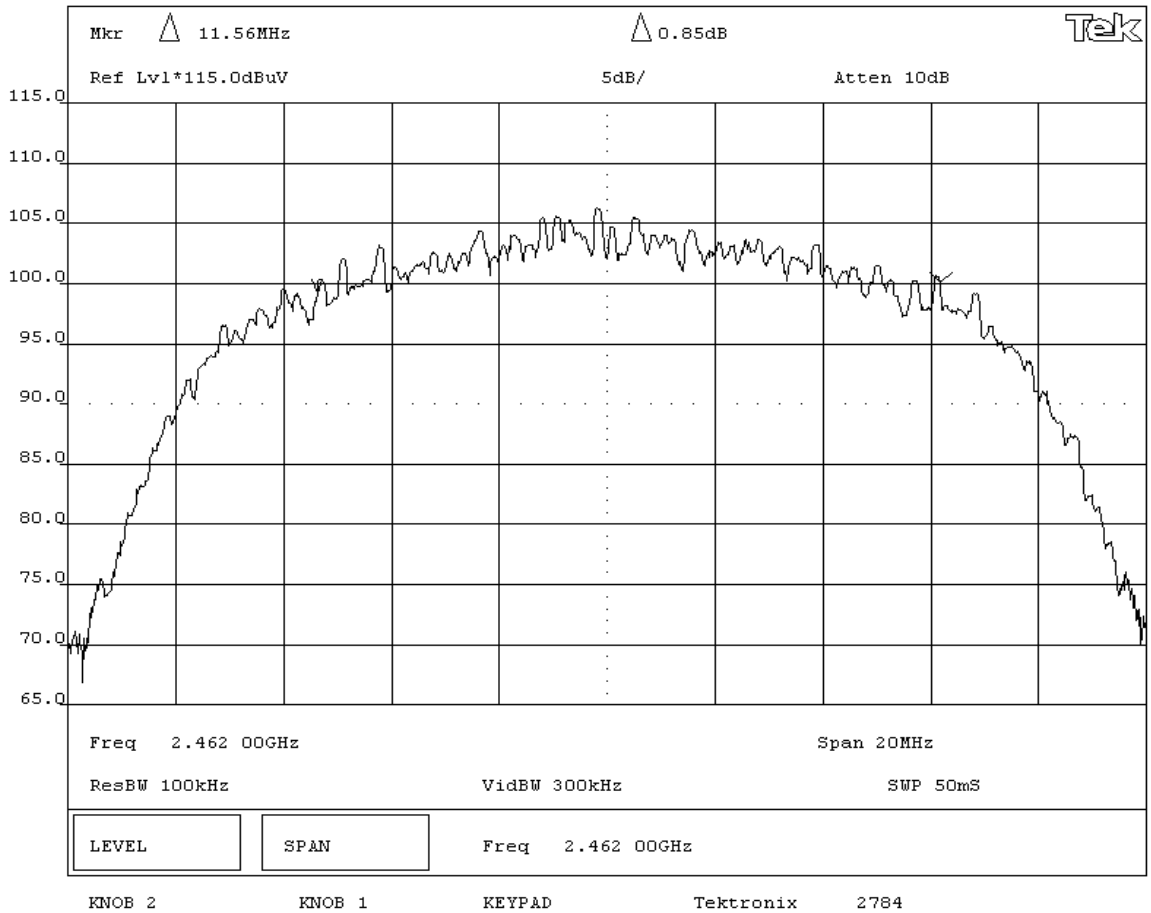
RESULTS	BANDWIDTH
Pass	11.56 MHz

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Occupied Bandwidth - High Channel



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(a)(2)	Year: 2003	Method:	FCC 97-114, ANSI C63.4	Year: 1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

The minimum 6dB bandwidth is 500KHz

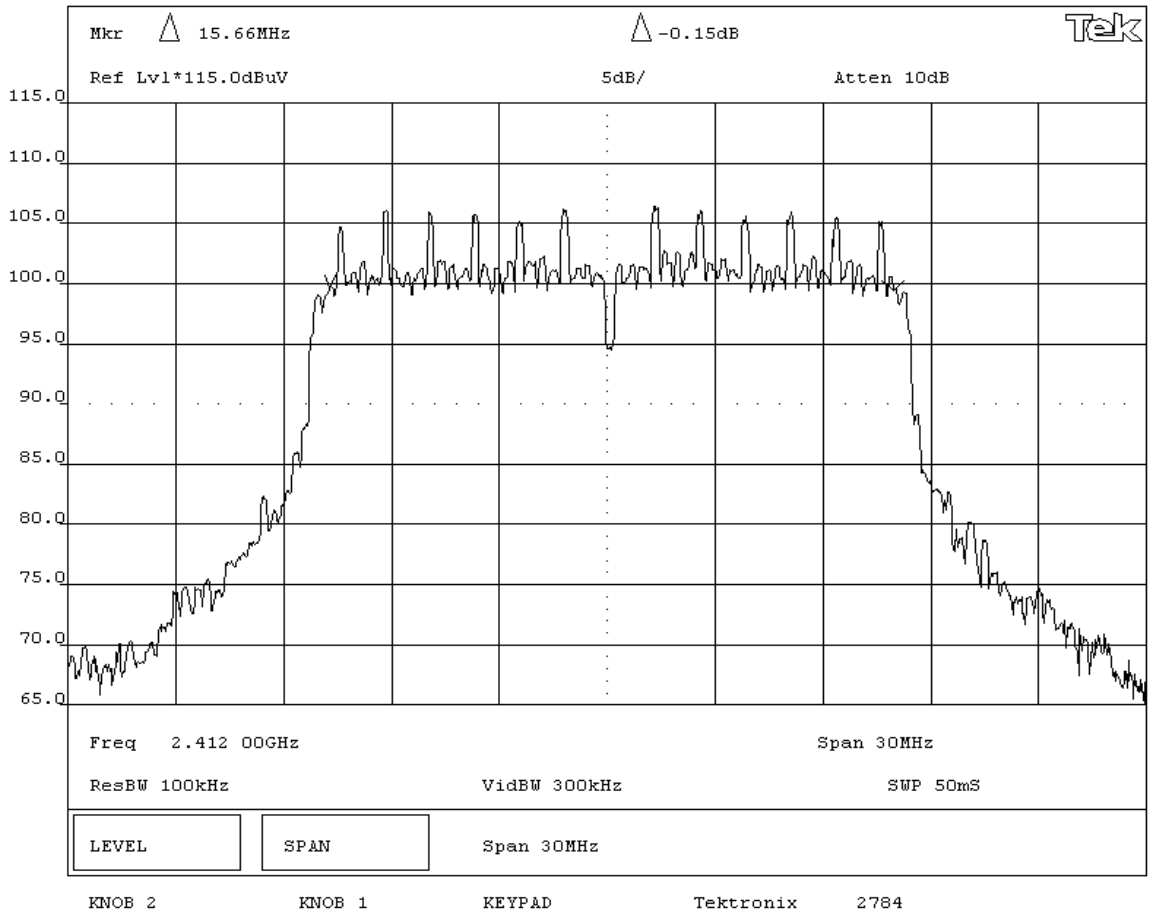
RESULTS	BANDWIDTH
Pass	15.66 MHz

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Occupied Bandwidth - Low Channel - 6 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(a)(2)	Year: 2003	Method:	FCC 97-114, ANSI C63.4	Year: 1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

The minimum 6dB bandwidth is 500KHz

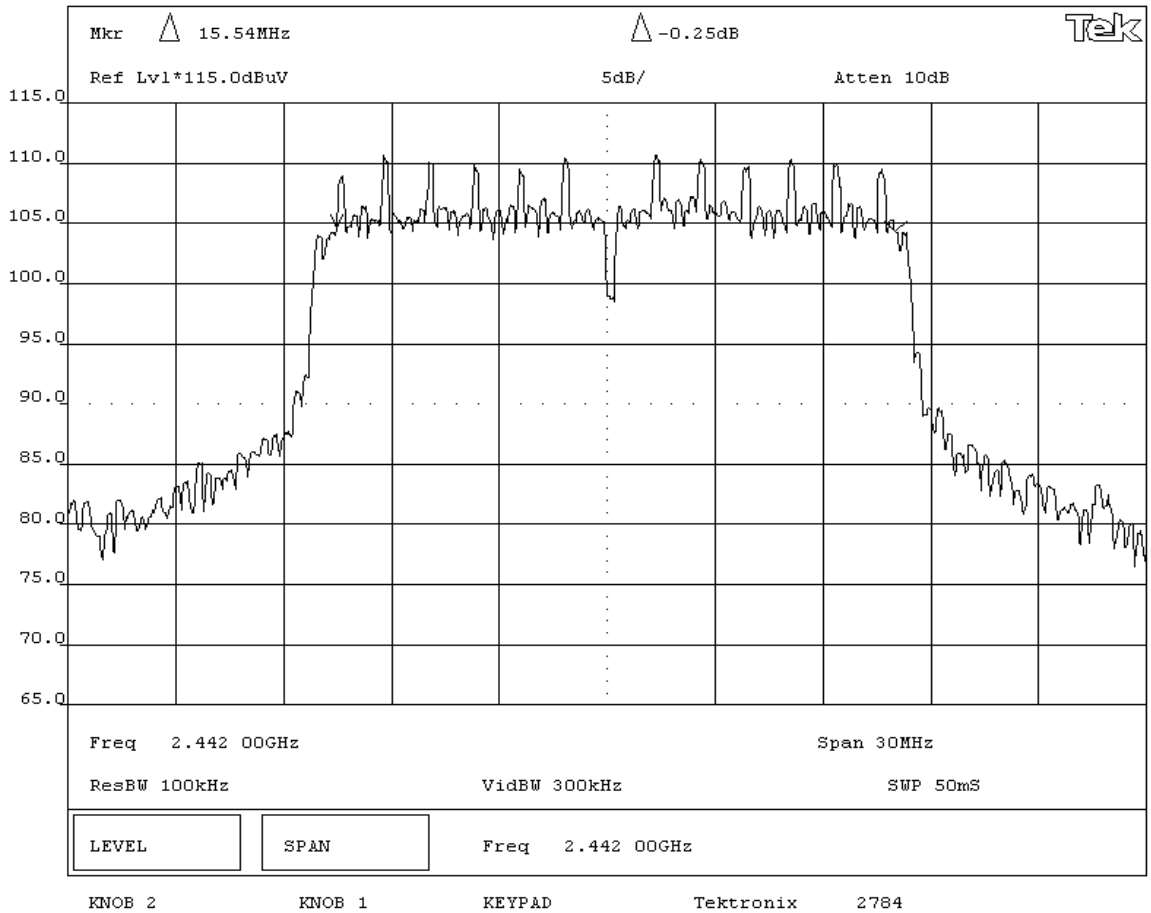
RESULTS	BANDWIDTH
Pass	15.54 MHz

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Occupied Bandwidth - Mid Channel - 6 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(a)(2)	Year: 2003	Method:	FCC 97-114, ANSI C63.4	Year: 1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

The minimum 6dB bandwidth is 500KHz

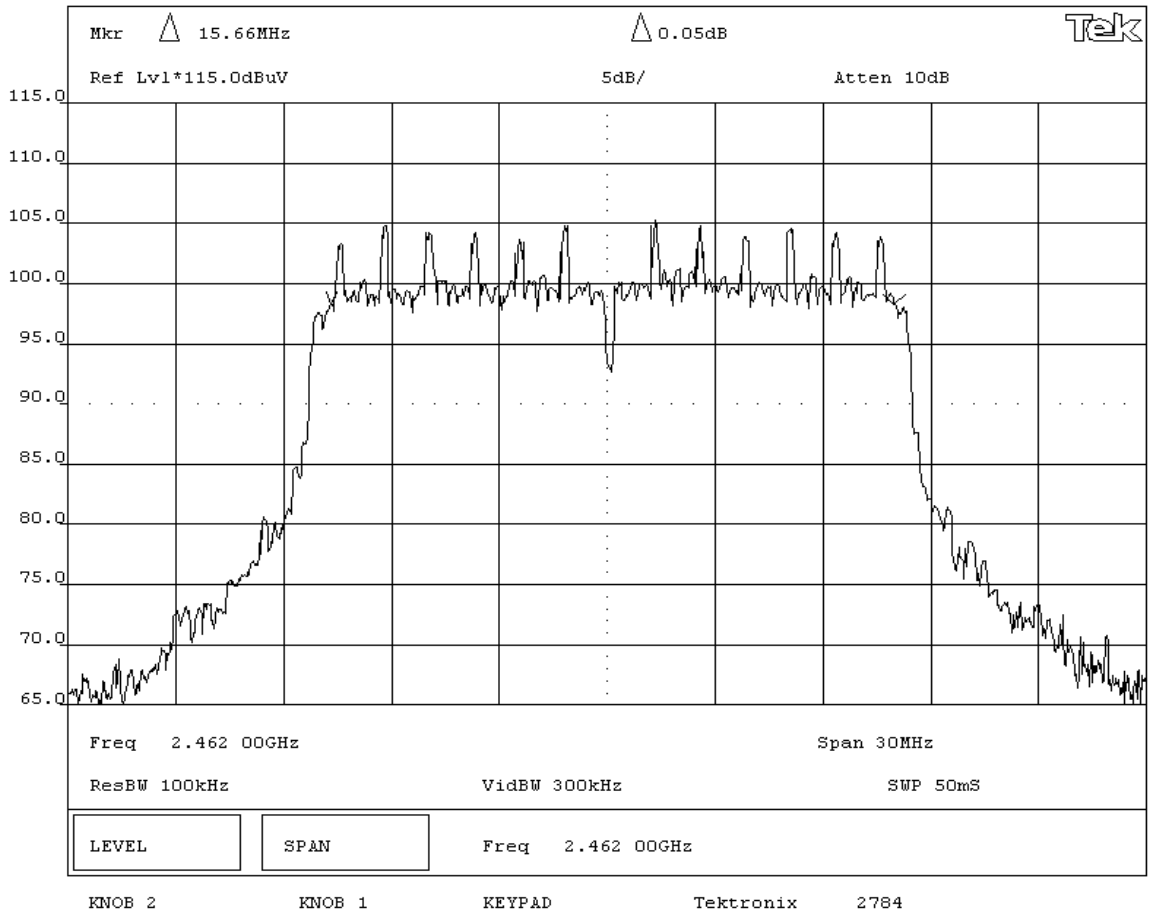
RESULTS	BANDWIDTH
Pass	15.66 MHz

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Occupied Bandwidth - High Channel - 6 Mbit



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(a)(2)	Year: 2003	Method:	FCC 97-114, ANSI C63.4	Year: 1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

The minimum 6dB bandwidth is 500KHz

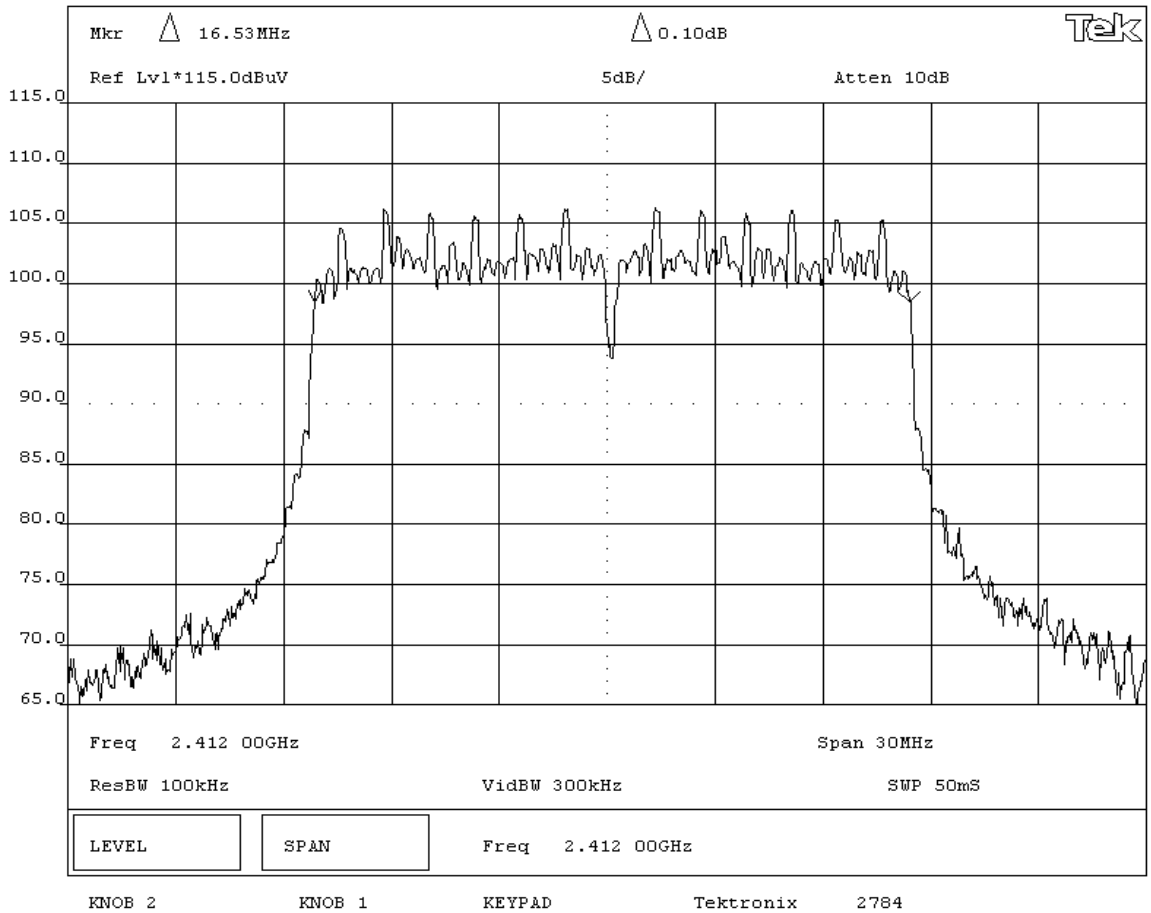
RESULTS	BANDWIDTH
Pass	16.53 MHz

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Occupied Bandwidth - Low Channel - 36 Mbit



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(a)(2)	Year: 2003	Method:	FCC 97-114, ANSI C63.4	Year: 1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

The minimum 6dB bandwidth is 500KHz

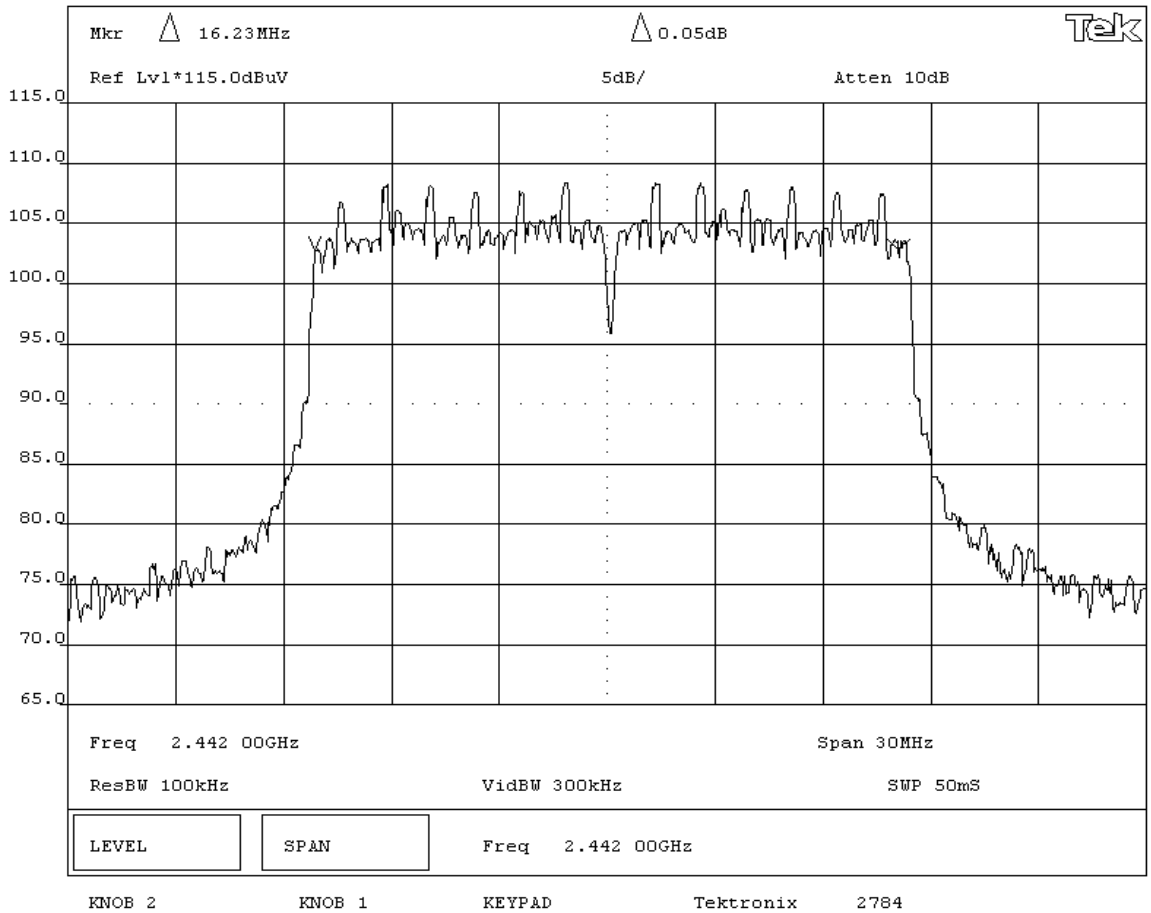
RESULTS	BANDWIDTH
Pass	16.23 MHz

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Occupied Bandwidth - Mid Channel - 36 Mbit



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(a)(2)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

The minimum 6dB bandwidth is 500KHz

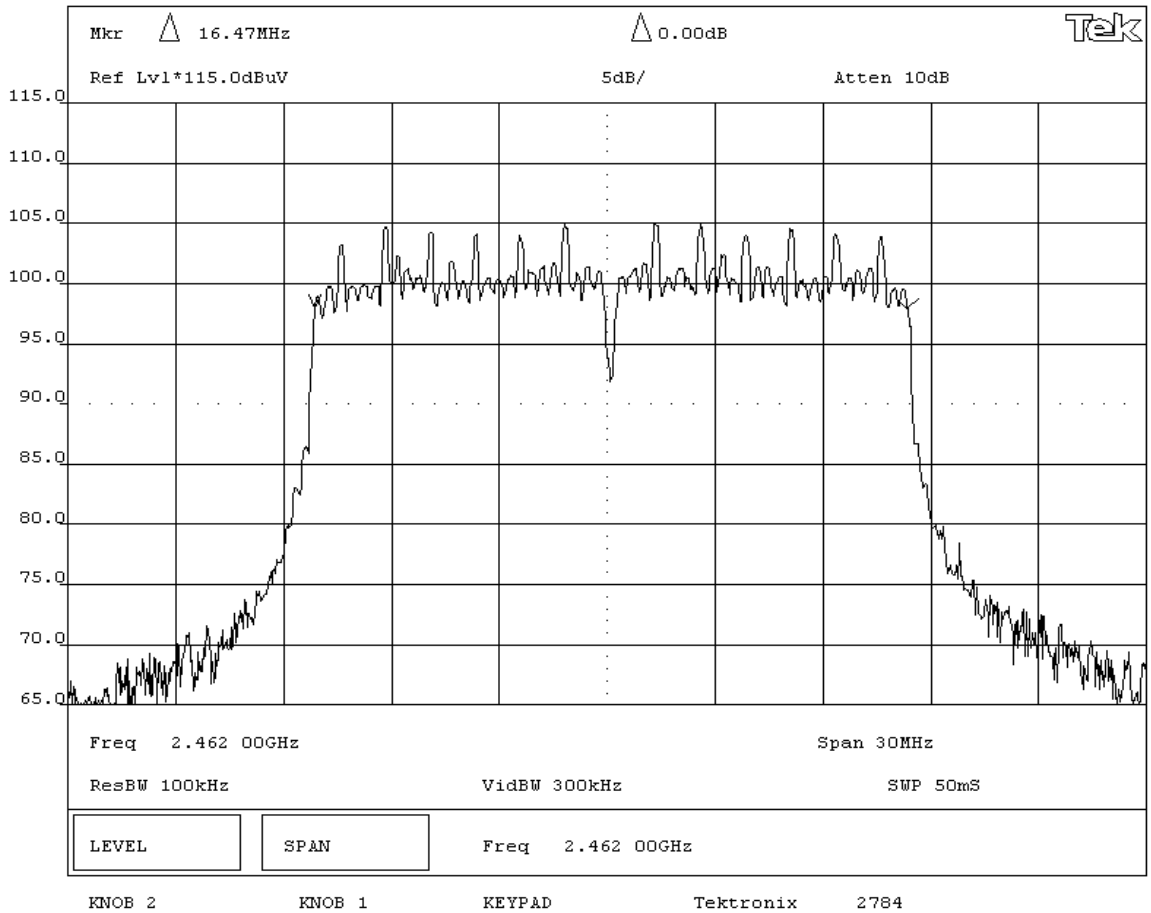
RESULTS	BANDWIDTH
Pass	16.47 MHz

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Occupied Bandwidth - High Channel - 36 Mbit



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(a)(2)	Year: 2003	Method:	FCC 97-114, ANSI C63.4	Year: 1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

The minimum 6dB bandwidth is 500KHz

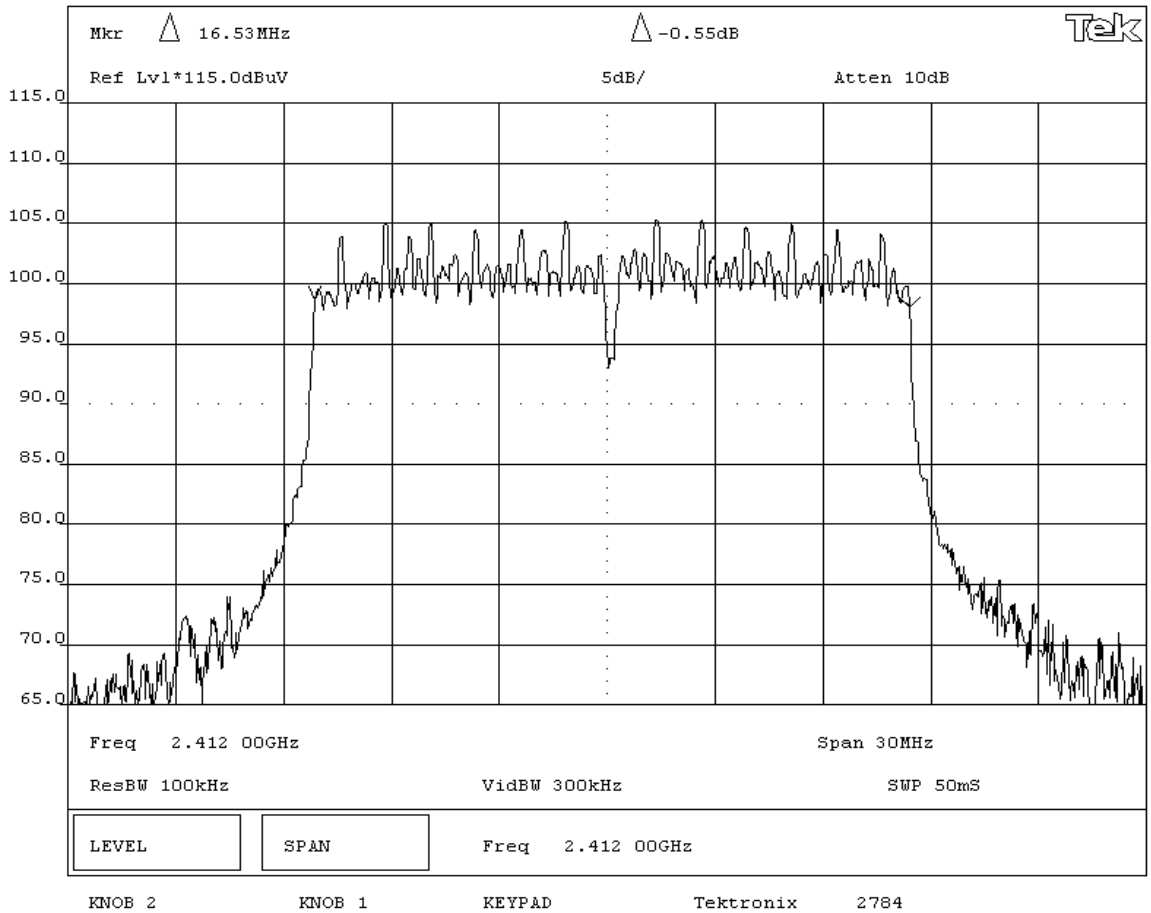
RESULTS	BANDWIDTH
Pass	16.53 MHz

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Occupied Bandwidth - Low Channel - 54 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(a)(2)	Year: 2003	Method:	FCC 97-114, ANSI C63.4	Year: 1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

The minimum 6dB bandwidth is 500KHz

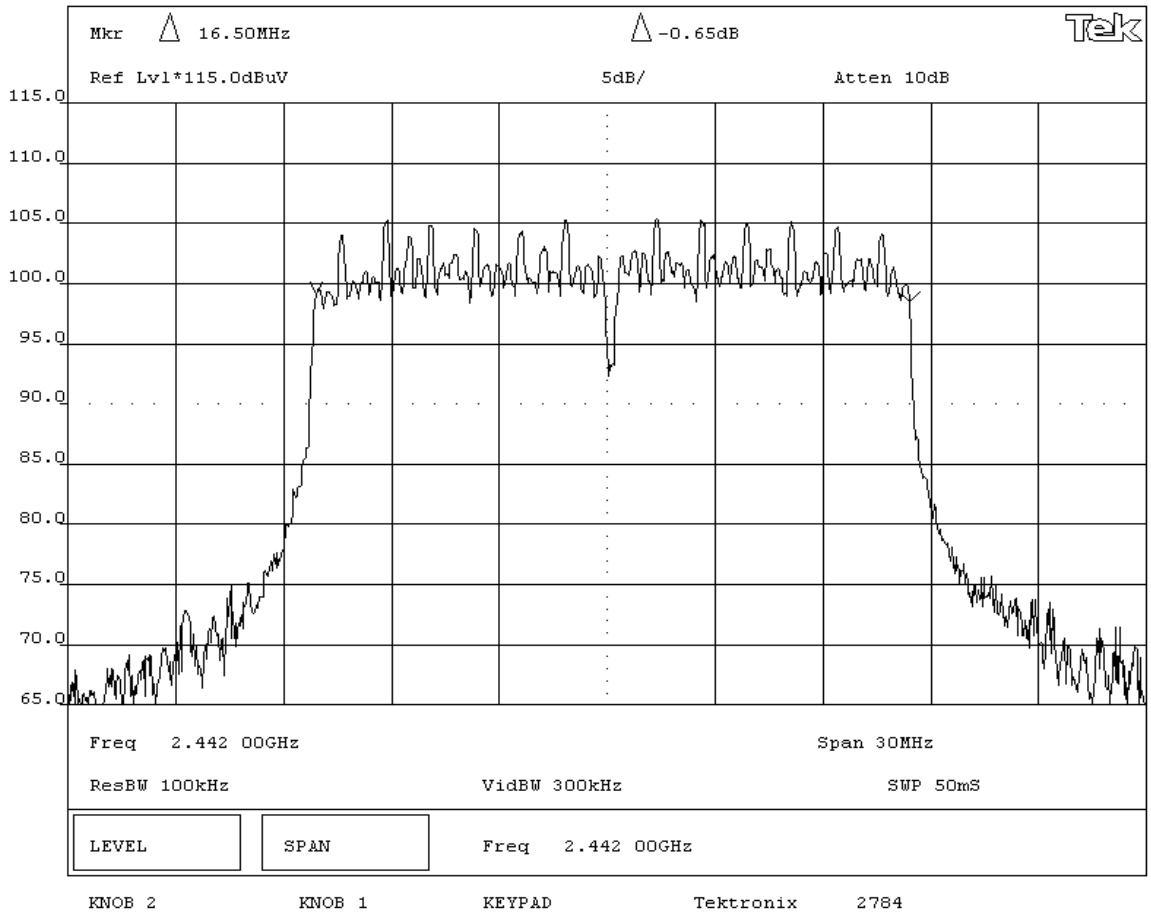
RESULTS	BANDWIDTH
Pass	16.5 MHz

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Occupied Bandwidth - Mid Channel - 54 Mbit



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(a)(2)	Year: 2003	Method:	FCC 97-114, ANSI C63.4	Year: 1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

The minimum 6dB bandwidth is 500KHz

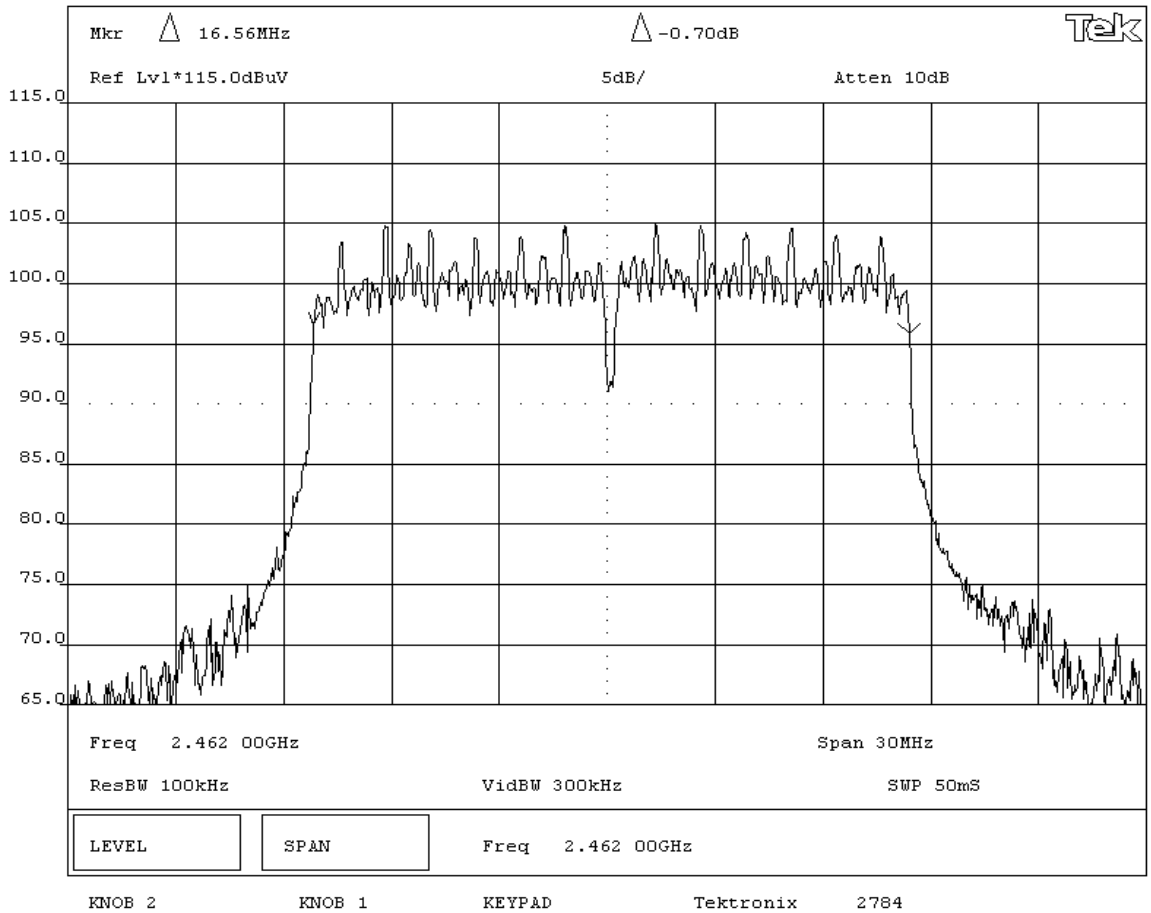
RESULTS	BANDWIDTH
Pass	16.56 MHz

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Occupied Bandwidth - High Channel - 54 Mbit



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:
High
Mid
Low

Operating Modes Investigated:
802.11(b)
802.11(g)

Data Rates Investigated:
6 Mbit
11 Mbit
24 Mbit
54 Mbit

Output Power Setting(s) Investigated:
Maximum

Power Input Settings Investigated:
DC from host device

Software\Firmware Applied During Test			
Exercise software	AP Monitor	**Version**	V5.55 March 5, 2003
Description			
Using Intermec's Access Point Configuration via HyperTerminal to control data rate and channel of 802MIG2 Radio.			

EUT and Peripherals			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Radio (EUT)	INTERMEC Technologies	802MIG2	none

Cables

None. No cables were attached to EUT

Measurement Equipment					
Description	**Manufacturer**	**Model**	**Identifier**	**Last Cal**	**Interval**
Signal Generator	Hewlett Packard	8341B	TGN	12/20/2002	12 mo
Power Meter	Hewlett Packard	E4418A	SPA	06/21/2002	24 mo
Power Sensor	Hewlett-Packard	8481H	SPB	06/21/2002	24 mo
Oscilloscope	Tektronix	TDS3052	TOE	07/08/2003	12 mo
RF Detector	RLC Electronics	CR-133-R	ZZA	NCR	NA
Spectrum Analyzer	Tektronix	2784	AAO	02/26/2003	24 mo

Test Description

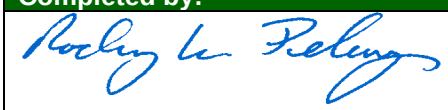
Requirement: Per 47 CFR 15.247(b)(3), the maximum peak output power must not exceed 1 Watt.

Configuration: The peak output power was measured with the EUT set to low, medium, and high transmit frequencies. The EUT was transmitting at its maximum output power. The data rate of the radio was varied to determine the level that produced the highest output power.

The measurement was made using a direct connection between the RF output of the EUT and a RF detector diode. The DC output of the diode was measured with the oscilloscope. The signal generator, tuned to the transmit frequency, was then substituted for the EUT. The CW output of the signal generator was adjusted until the DC output of the RF detector diode match the peak level produced when connected to the EUT. To further reduce measurement error, the power meter and sensor were then used to measure the output power level of the signal generator.

De Facto EIRP Limit: Per 47 CFR 15.247 (b)(1-3), the EUT meets the de facto EIRP limit of +36dBm.

Completed by:



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	10/13/03
Customer:	INTERMEC Technologies			Temperature:	75 degrees F
Attendees:	None	Tested by:	Rod Peloquin	Humidity:	37% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(b)(3)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, at maximum output power. 802.11(b) modulation scheme. No change in output power noted at lower data rates

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak conducted output power does not exceed 1 Watt

RESULTS	AMPLITUDE
Pass	35.0 mW

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Output Power - Low, Mid, & High Channels

Data Rate = 11 Mbit

Frequency (MHz)	Power (mW)
2412	33.8
2442	34.5
2462	35.0

NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	10/13/03
Customer:	INTERMEC Technologies			Temperature:	75 degrees F
Attendees:	None	Tested by:	Rod Peloquin	Humidity:	37% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(b)(3)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum output power. 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak conducted output power does not exceed 1 Watt

RESULTS	AMPLITUDE
Pass	35.0 mW

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Output Power - Low, Mid, & High Channels

Data Rate = 6 Mbit

Frequency (MHz)	Power (mW)
2412	33.8
2442	33.7
2462	35.0

Data Rate = 24 Mbit

Frequency (MHz)	Power (mW)
2412	17.0
2442	18.3
2462	18.0

Data Rate = 54 Mbit

Frequency (MHz)	Power (mW)
2412	3.4
2442	6.4
2462	6.4

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:
High
Low

Operating Modes Investigated:
802.11(b)
802.11(g)

Data Rates Investigated:
6 Mbit
11 Mbit
36 Mbit
54 Mbit

Output Power Setting(s) Investigated:
Maximum

Power Input Settings Investigated:
DC from host device

Software\Firmware Applied During Test			
Exercise software	FccTest.exe	Version	1/1/1601
Description			
The system was tested using special software developed to test all functions of the device during the test. The software allowed the selection of transmit channel and data rate. These were varied to produce the highest level of emissions. The OS of the host device was Ver. 0.00.00.0072			

Band Edge Compliance of RF Conducted Emissions

EUT and Peripherals

Description	Manufacturer	Model/Part Number	Serial Number
Radio (EUT)	INTERMEC Technologies	802MIG2	none

Cables

None. No cables were attached to EUT

Measurement Equipment

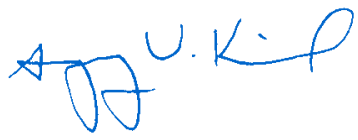
Description	Manufacturer	Model	Identifier	Last Cal	Interval
Spectrum Analyzer	Tektronix	2784	AAO	02/26/2003	24 mo

Test Description

Requirement: Per 47 CFR 15.247(c), in any 100 kHz bandwidth outside the authorized band, the maximum level of radio frequency power must be at least 20dB down from the highest emission level within the authorized band. The measurement is made with the spectrum analyzer's resolution bandwidth set to 100 kHz, and the video bandwidth set to greater than or equal to the resolution bandwidth.

Configuration: The spurious RF conducted emissions at the edges of the authorized band were measured with the EUT set to low and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate using digital modulation. The channels closest to the band edges were selected. The spectrum was scanned across each band edge from 25 MHz below the band edge to 25 MHz above the band edge.

Completed by:



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission at the edge of the authorized band is 20 dB down from the fundamental

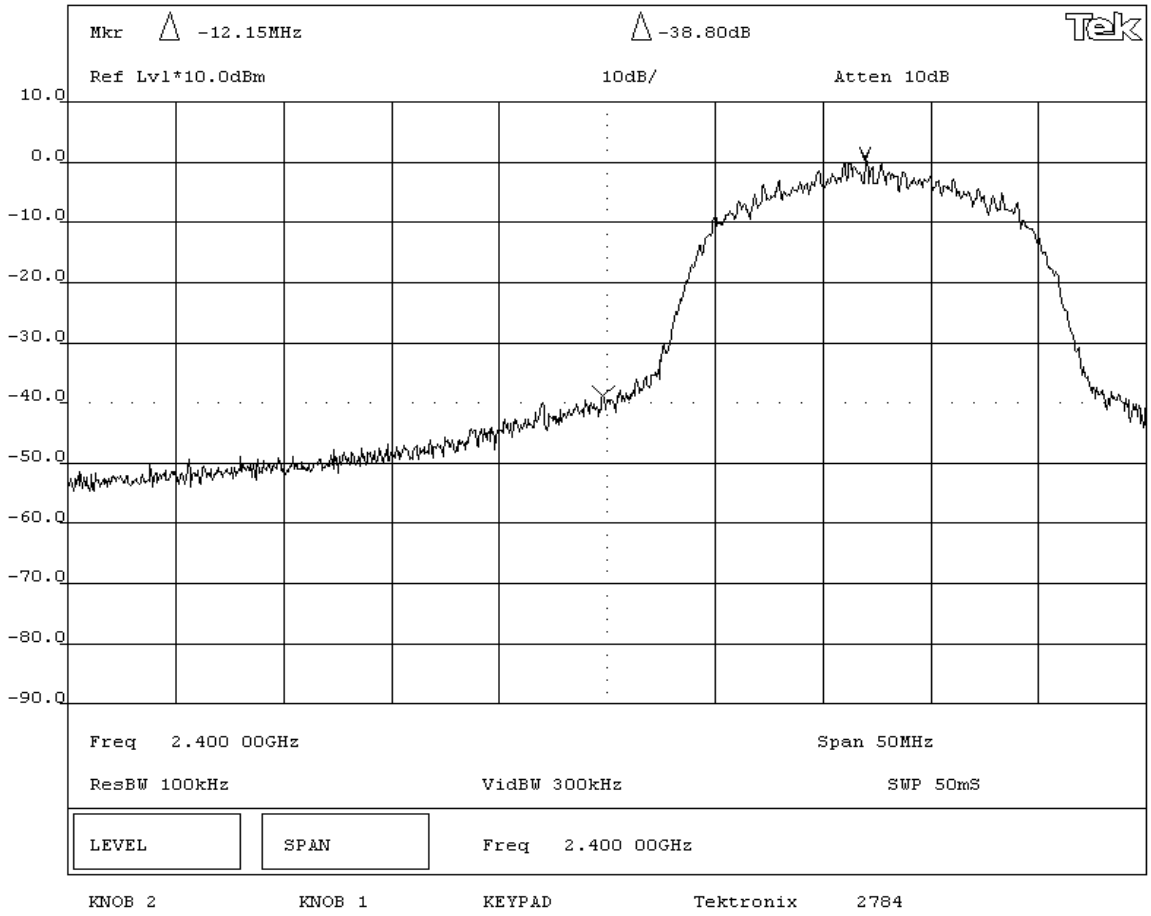
RESULTS	AMPLITUDE
Pass	-38.8 dB

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Band Edge Compliance - Low Channel



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission at the edge of the authorized band is 20 dB down from the fundamental

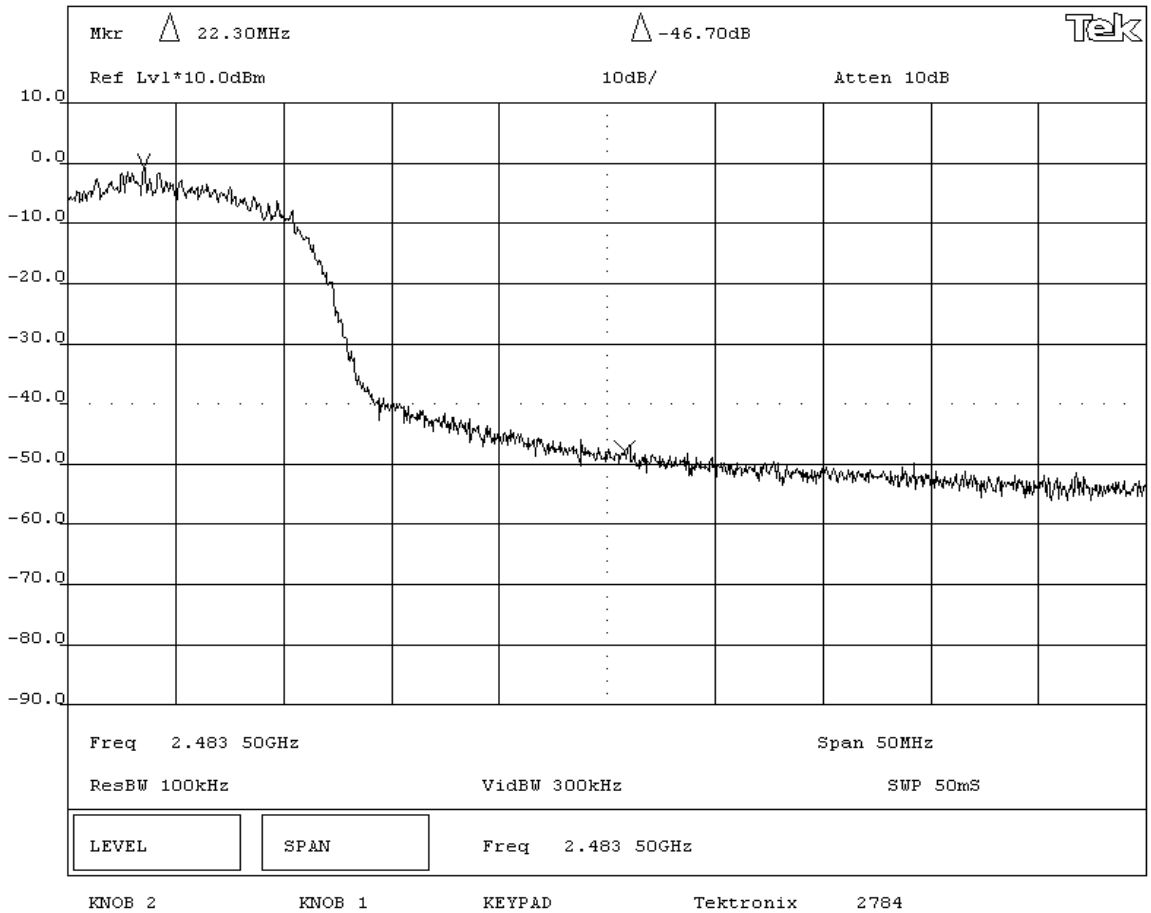
RESULTS	AMPLITUDE
Pass	-46.7 dB

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Band Edge Compliance - High Channel



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission at the edge of the authorized band is 20 dB down from the fundamental

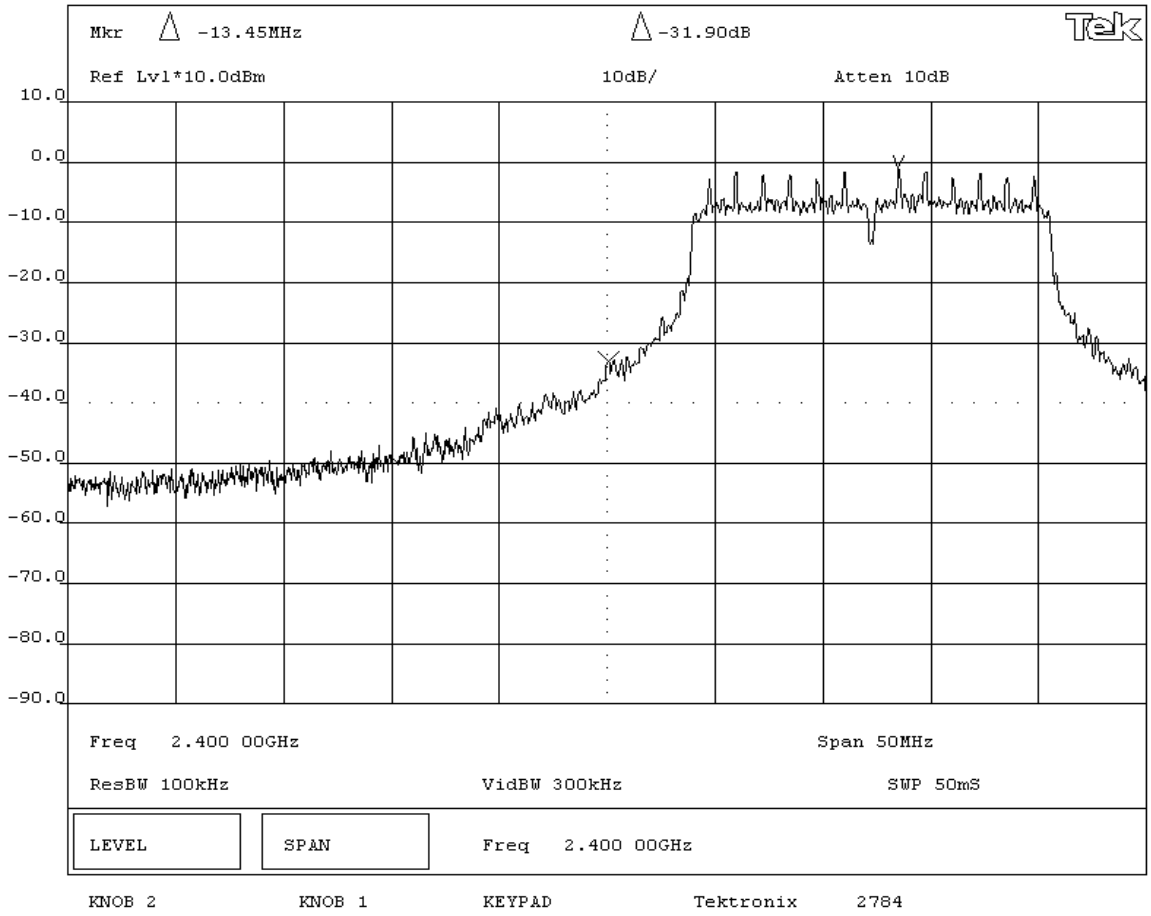
RESULTS	AMPLITUDE
Pass	-31.9 dB

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Band Edge Compliance - Low Channel - 6 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission at the edge of the authorized band is 20 dB down from the fundamental

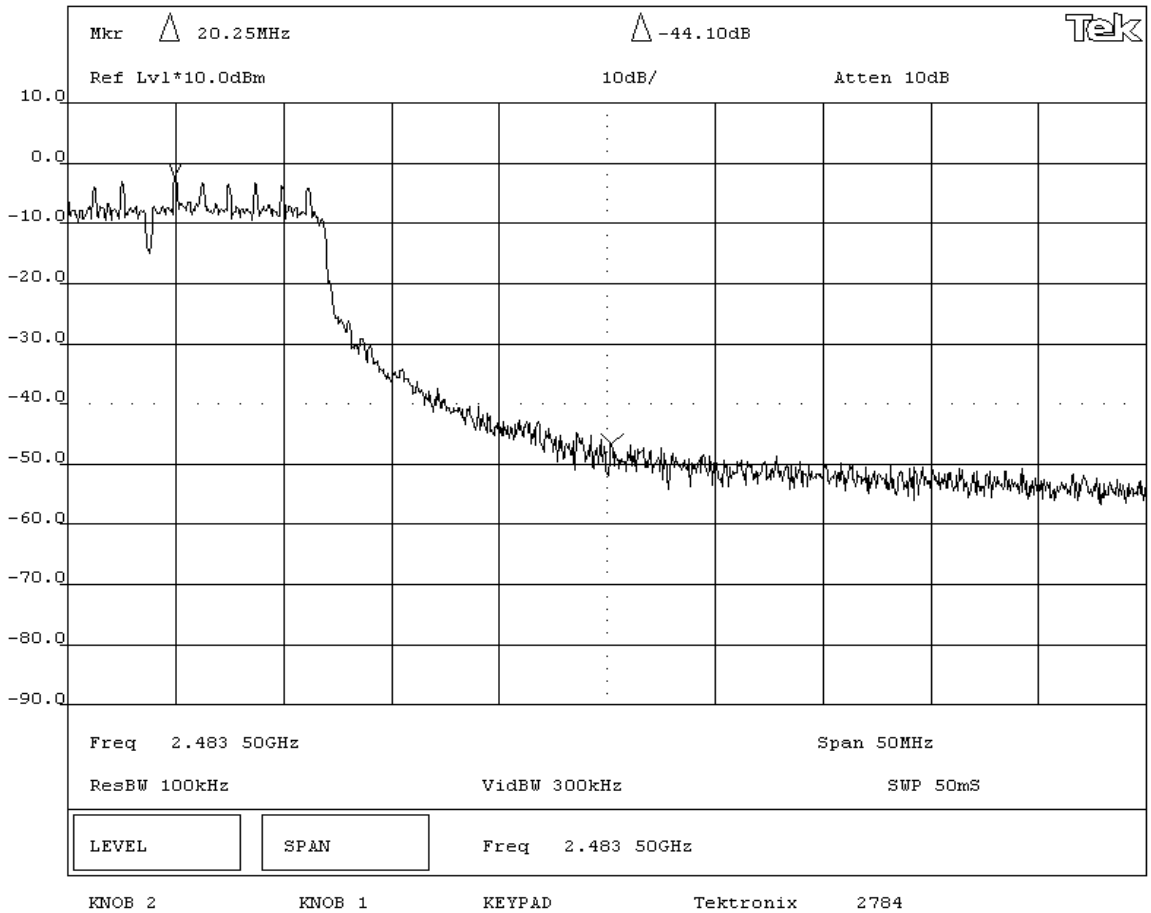
RESULTS	AMPLITUDE
Pass	-44.1 dB

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Band Edge Compliance - High Channel - 6 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission at the edge of the authorized band is 20 dB down from the fundamental

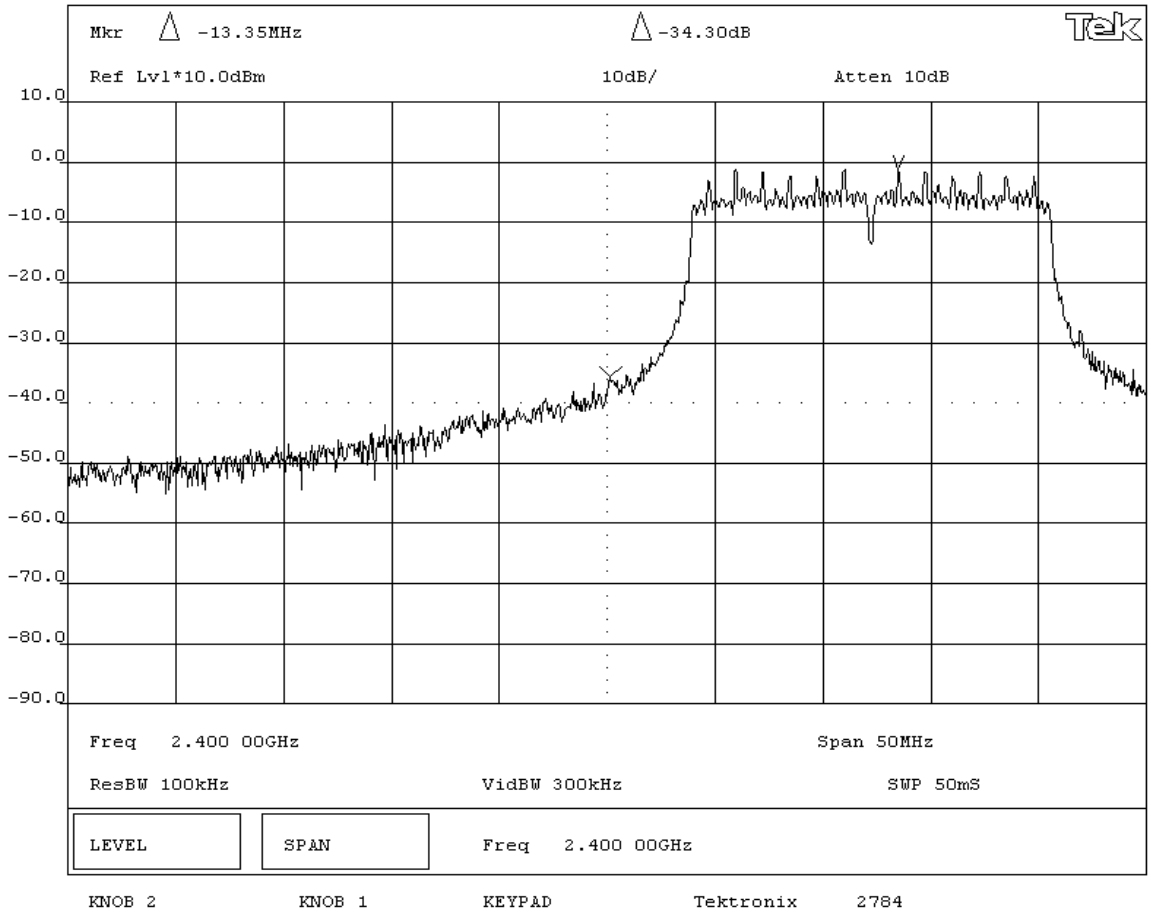
RESULTS	AMPLITUDE
Pass	-34.3 dB

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Band Edge Compliance - Low Channel - 36 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission at the edge of the authorized band is 20 dB down from the fundamental

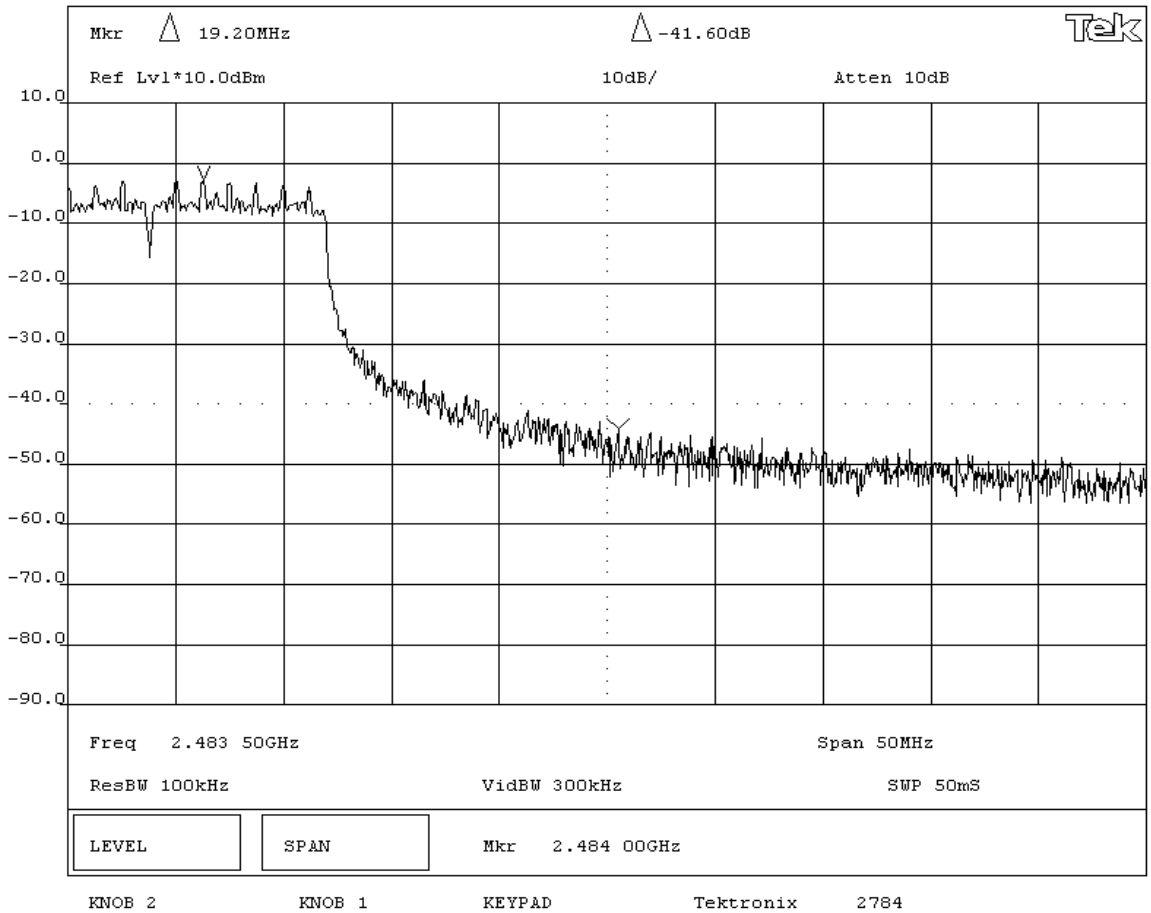
RESULTS	AMPLITUDE
Pass	-41.6 dB

SIGNATURE

Tested By: A.J. Kiemel

DESCRIPTION OF TEST

Band Edge Compliance - High Channel - 36 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission at the edge of the authorized band is 20 dB down from the fundamental

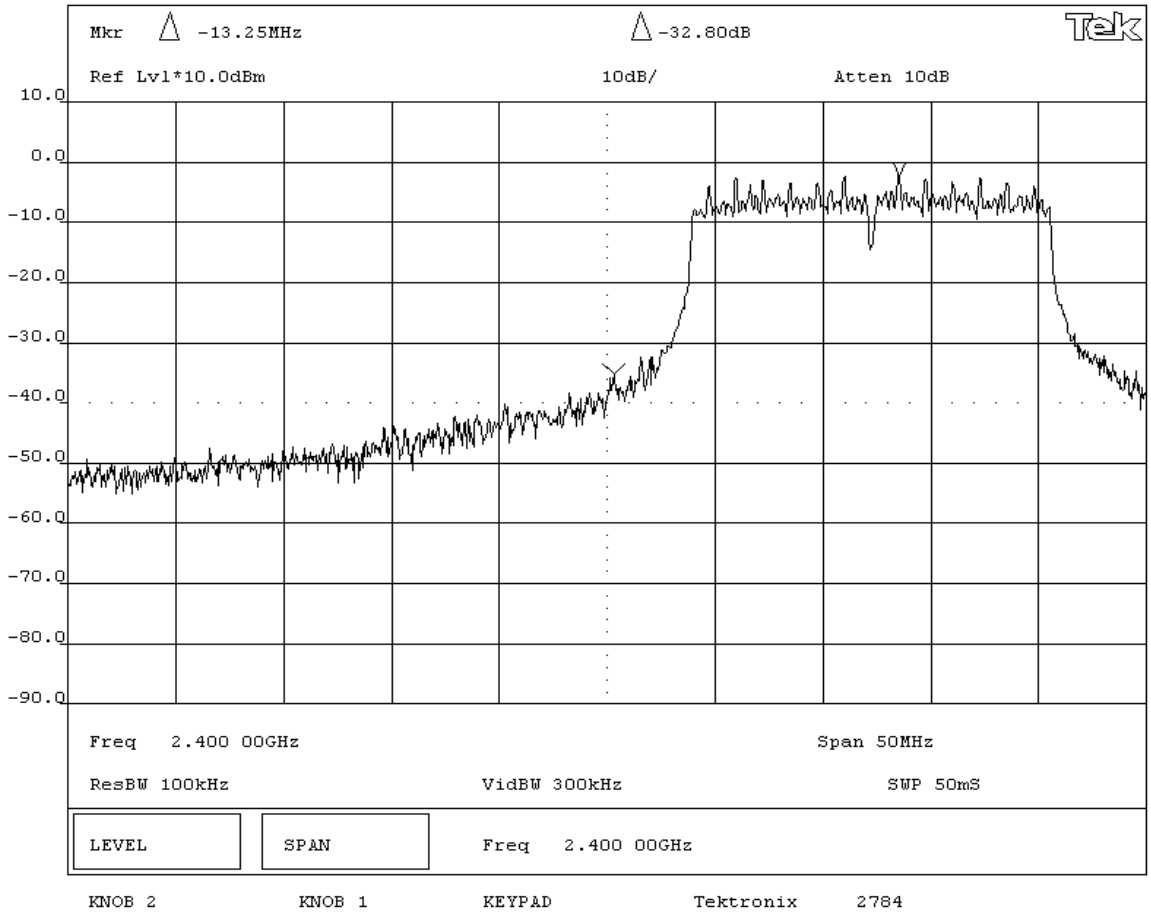
RESULTS	AMPLITUDE
Pass	-32.8 dB

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Band Edge Compliance - Low Channel - 54 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme.

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission at the edge of the authorized band is 20 dB down from the fundamental

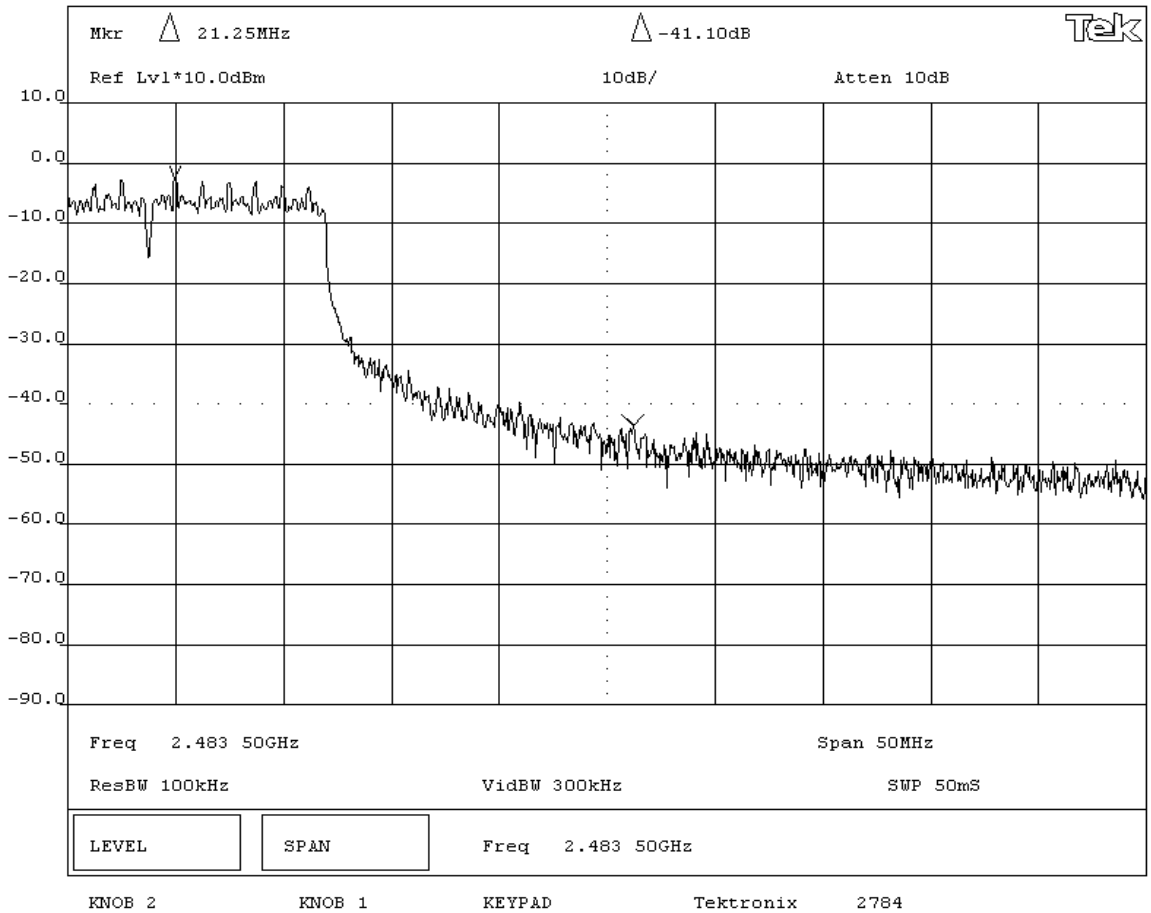
RESULTS	AMPLITUDE
Pass	-41.1 dB

SIGNATURE

Tested By: A.J. Kiemel

DESCRIPTION OF TEST

Band Edge Compliance - High Channel - 54 Mbit



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:
High
Mid
Low

Operating Modes Investigated:
802.11(b)
802.11(g)

Data Rates Investigated:
6 Mbit
11 Mbit
36 Mbit
54 Mbit

Output Power Setting(s) Investigated:
Maximum

Power Input Settings Investigated:
DC from host device

Frequency Range Investigated			
Start Frequency	0 MHz	Stop Frequency	25 GHz

Software\Firmware Applied During Test			
Exercise software	FccTest.exe	Version	1/1/1601
Description			
The system was tested using special software developed to test all functions of the device during the test. The software allowed the selection of transmit channel and data rate. These were varied to produce the highest level of emissions. The OS of the host device was Ver. 0.00.00.0072			

Spurious RF Conducted Emissions

EUT and Peripherals

Description	Manufacturer	Model/Part Number	Serial Number
Radio (EUT)	INTERMEC Technologies	802MIG2	none

Cables

None. No cables were attached to EUT

Measurement Equipment

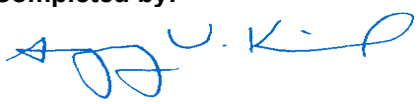
Description	Manufacturer	Model	Identifier	Last Cal	Interval
Spectrum Analyzer	Tektronix	2784	AAO	02/26/2003	24 mo

Test Description

Requirement: Per 47 CFR 15.247(c), in any 100 kHz bandwidth outside the authorized band, the maximum level of radio frequency power must be at least 20dB down from the highest emission level within the authorized band. The measurement is made with the spectrum analyzer's resolution bandwidth set to 100 kHz, and the video bandwidth set to greater than or equal to the resolution bandwidth.

Configuration: The spurious RF conducted emissions were measured with the EUT set to low, medium, and high transmit frequencies. The measurements were made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate using digital modulation. For each transmit frequency, the spectrum was scanned throughout the specified frequency range.

Completed by:



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

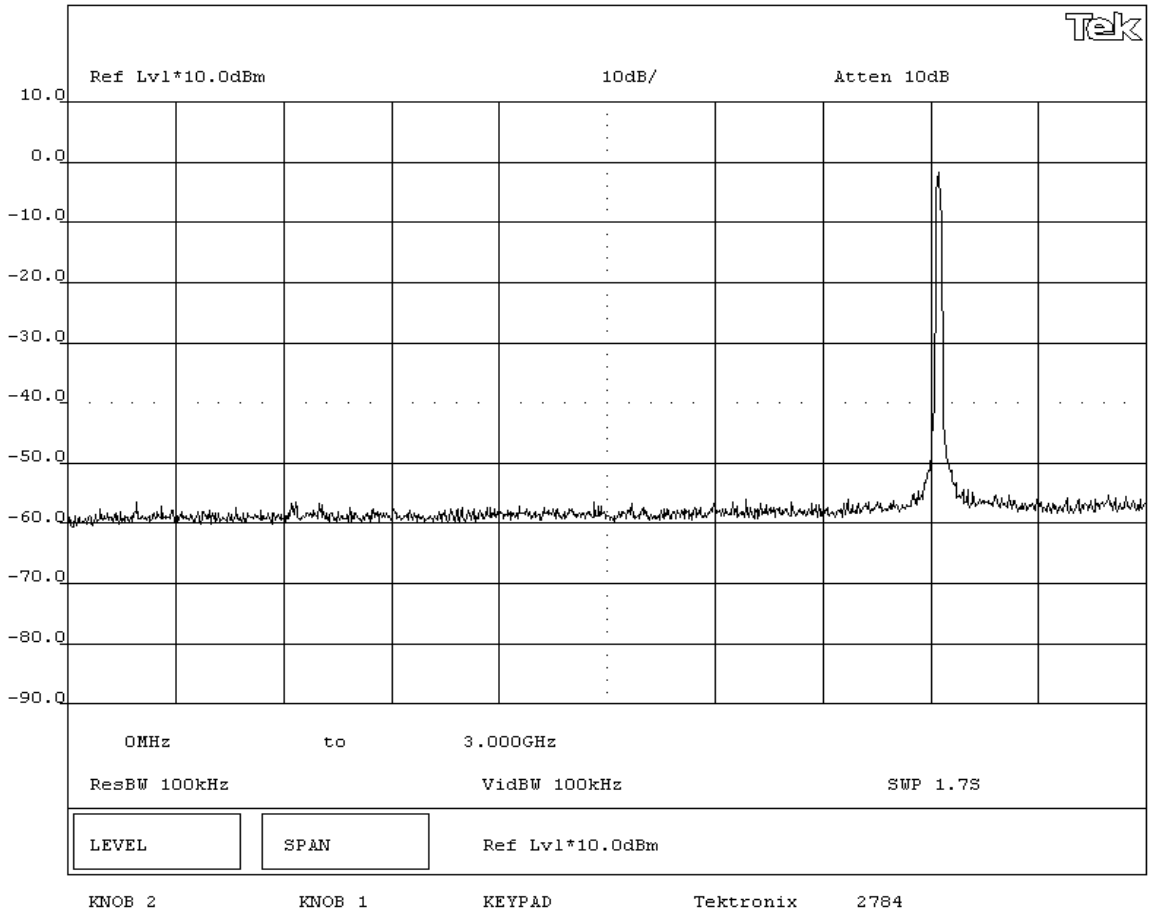
Pass

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Low Channel 0MHz-3GHz



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

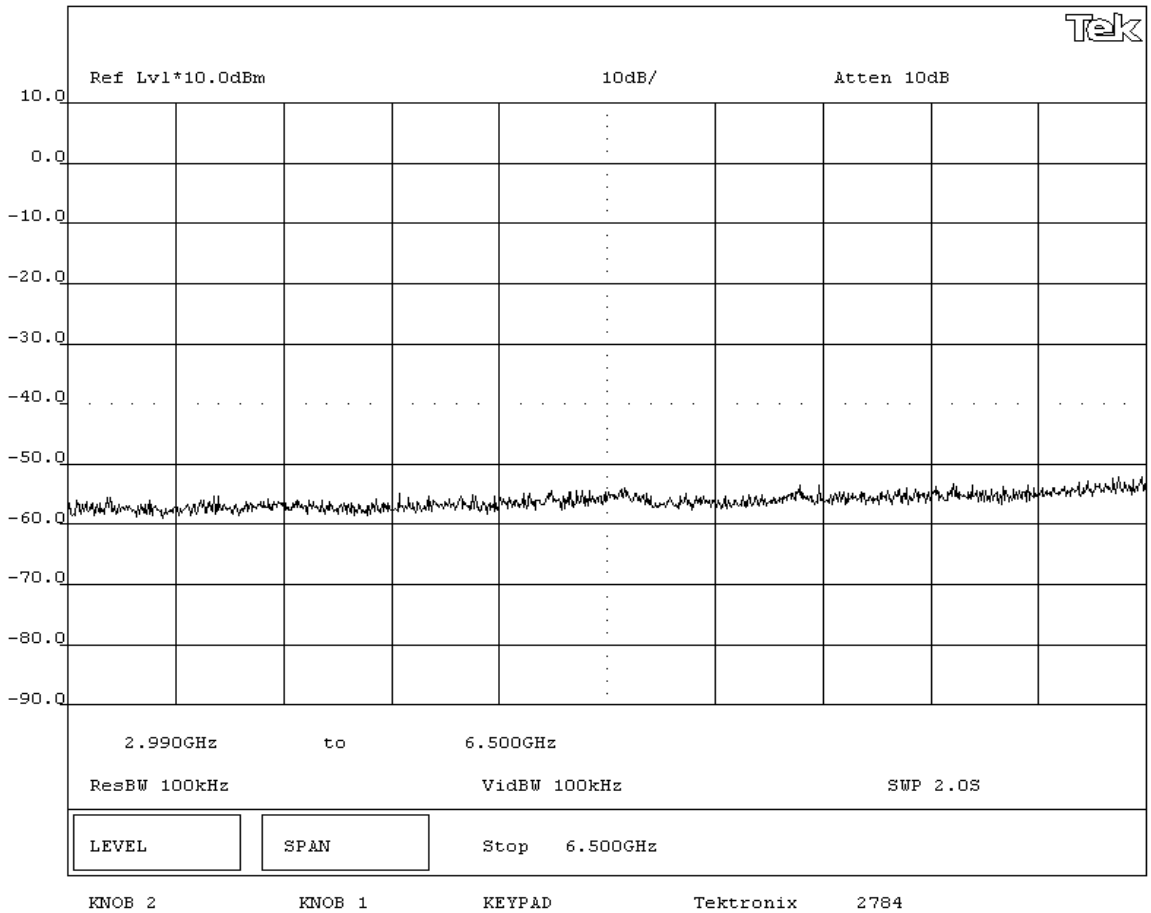
Pass

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Low Channel 3GHz-6.5GHz



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

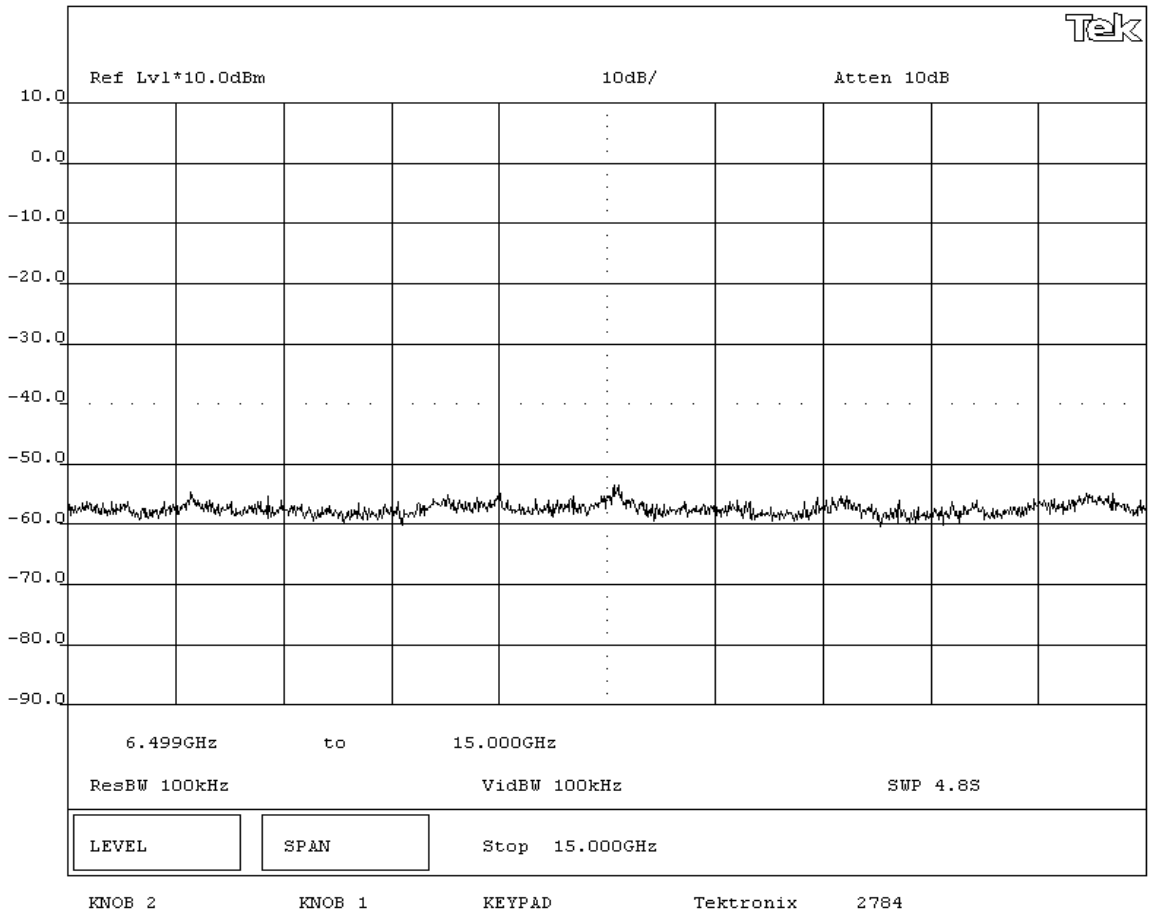
Pass

SIGNATURE

Tested By: A. U. Kiel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Low Channel 6.5GHz-15GHz



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

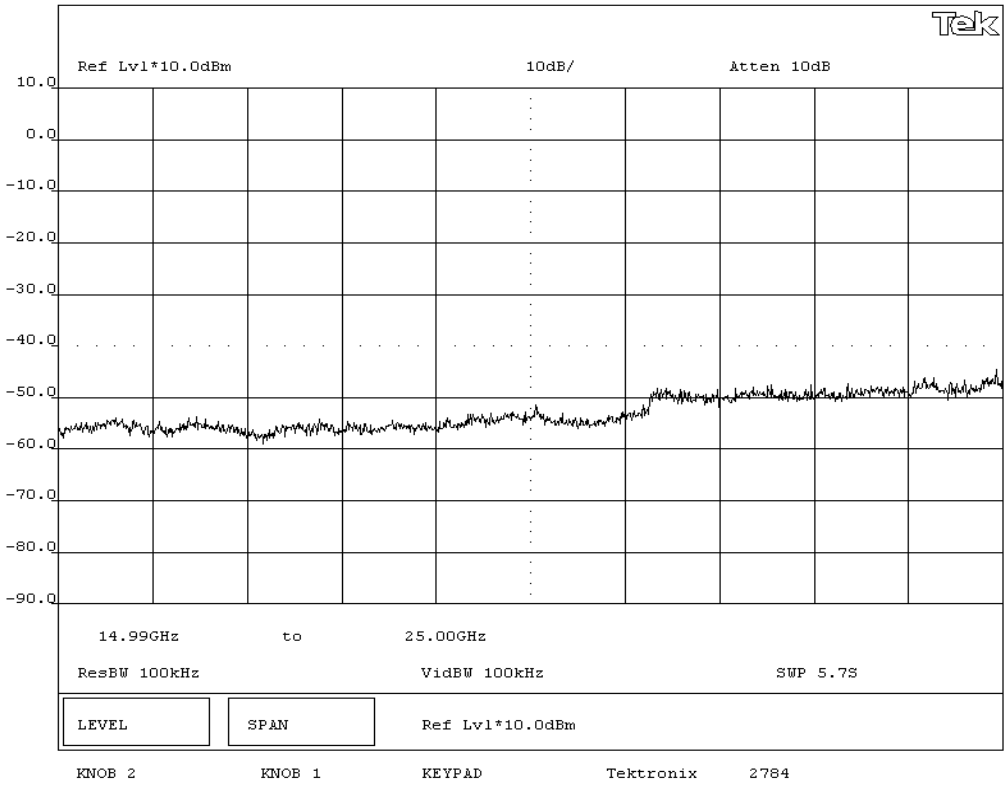
Pass

SIGNATURE

Tested By: A.J. U. Kiemel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Low Channel 15GHz - 25GHz



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

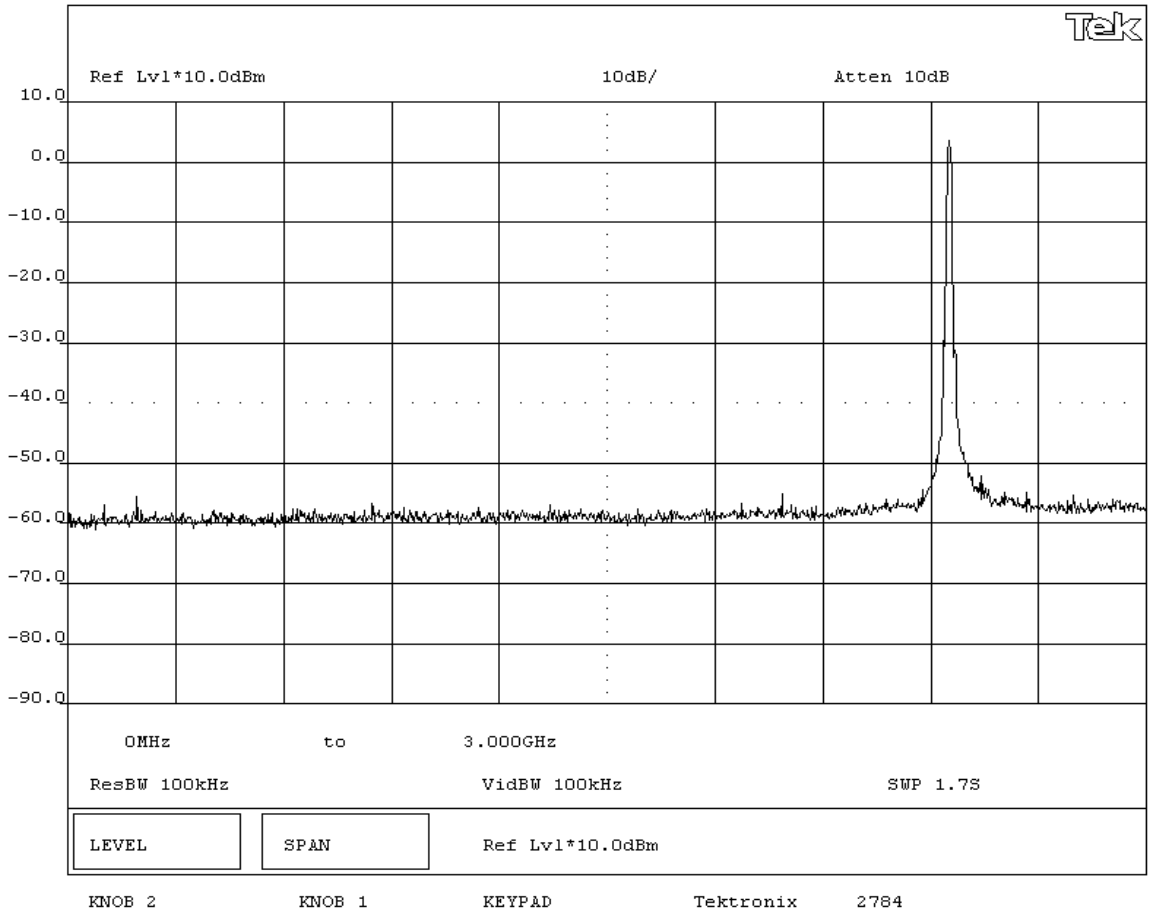
Pass

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Mid Channel 0MHz-3GHz



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

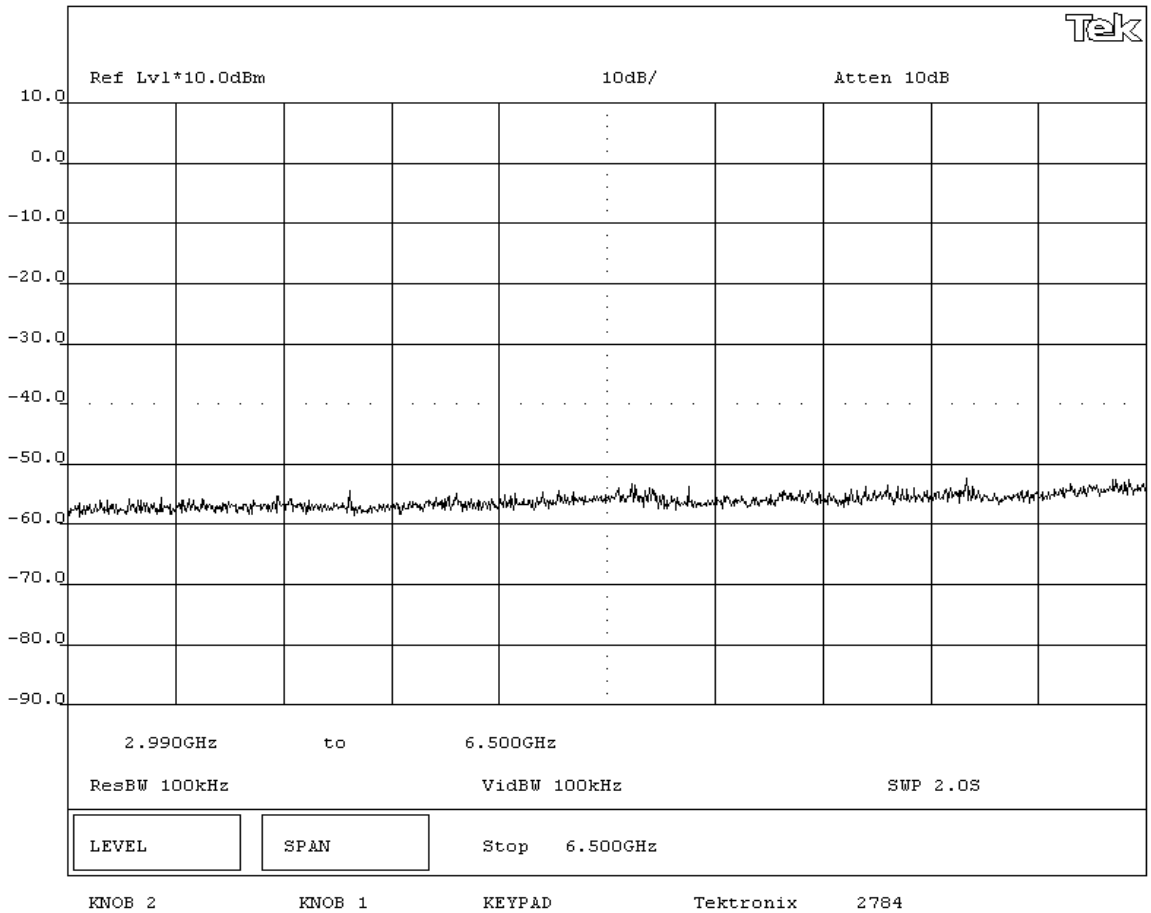
Pass

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Mid Channel 3GHz-6.5GHz



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

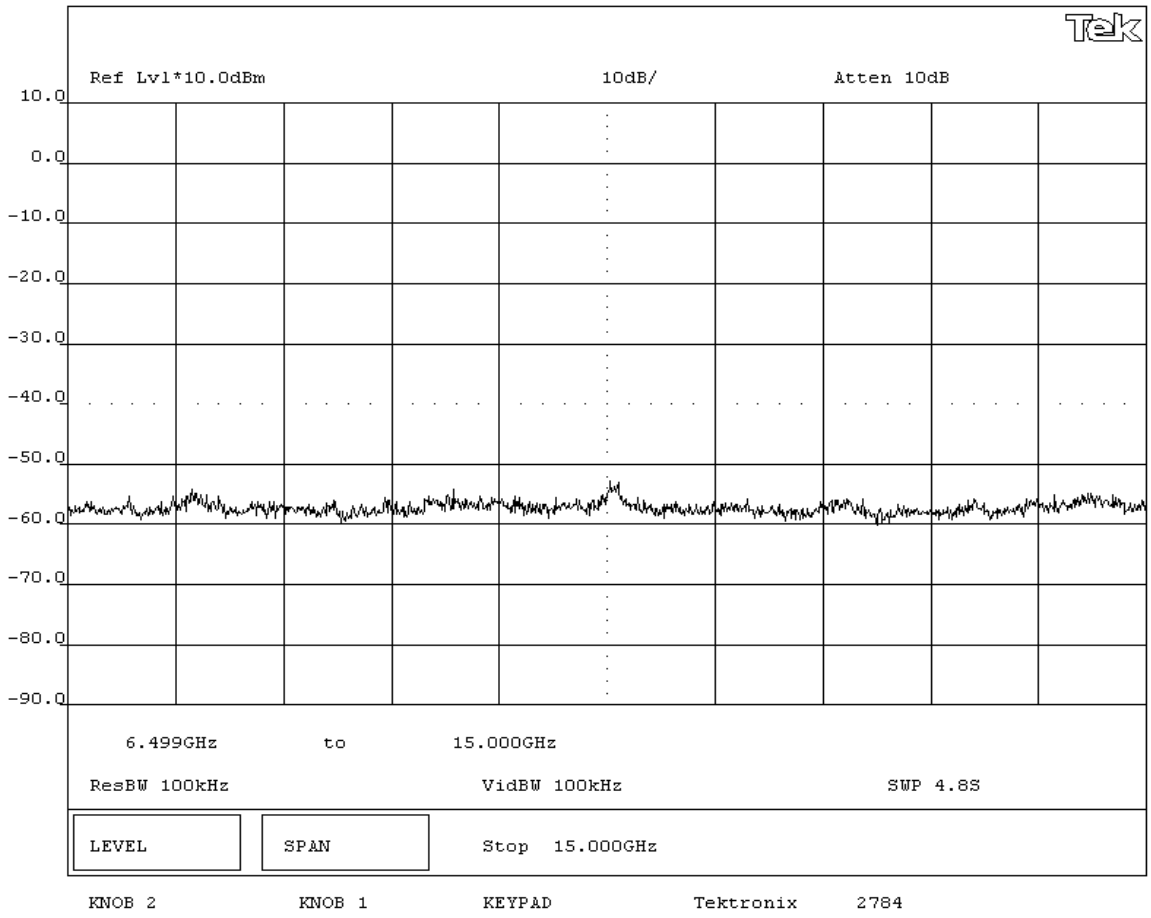
Pass

SIGNATURE

Tested By: A. U. Kiel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Mid Channel 6.5GHz-15GHz



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

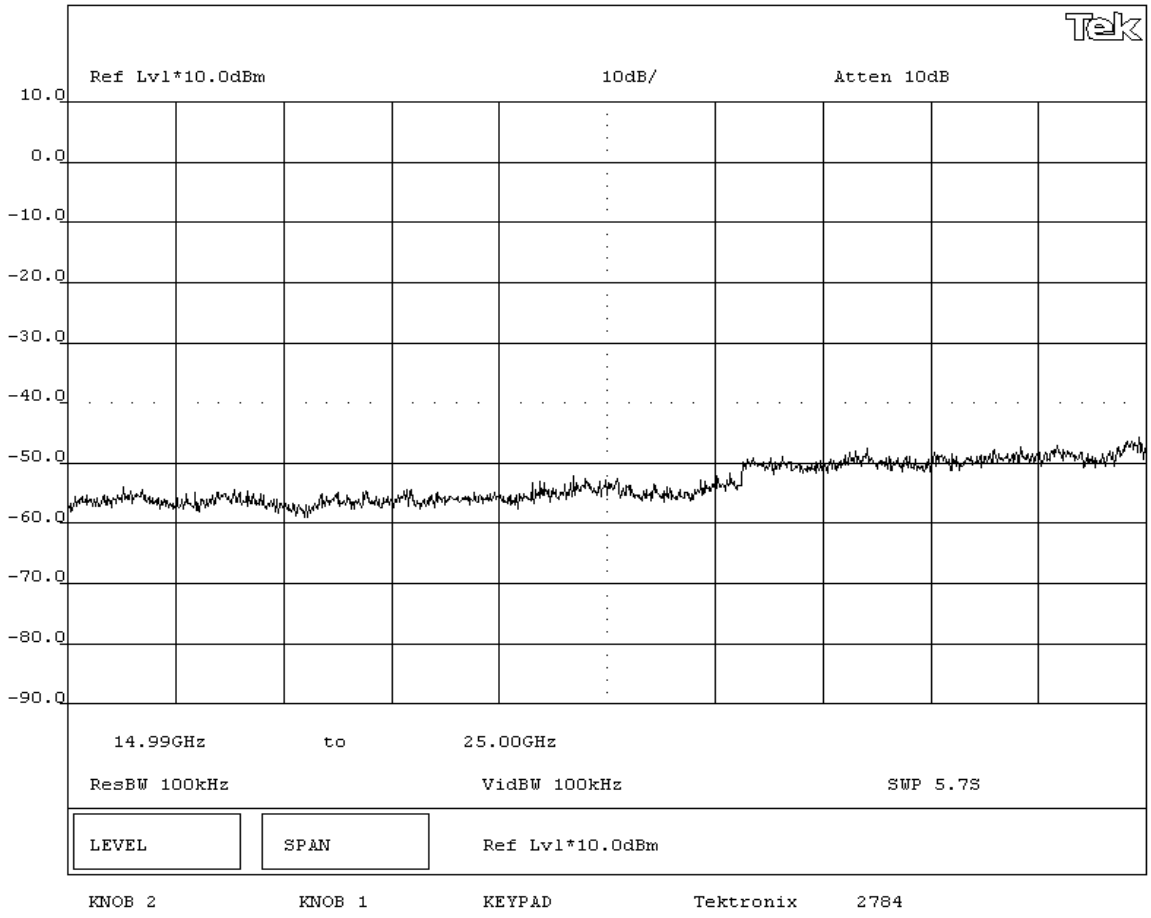
Pass

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Mid Channel 15GHz-25GHz



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

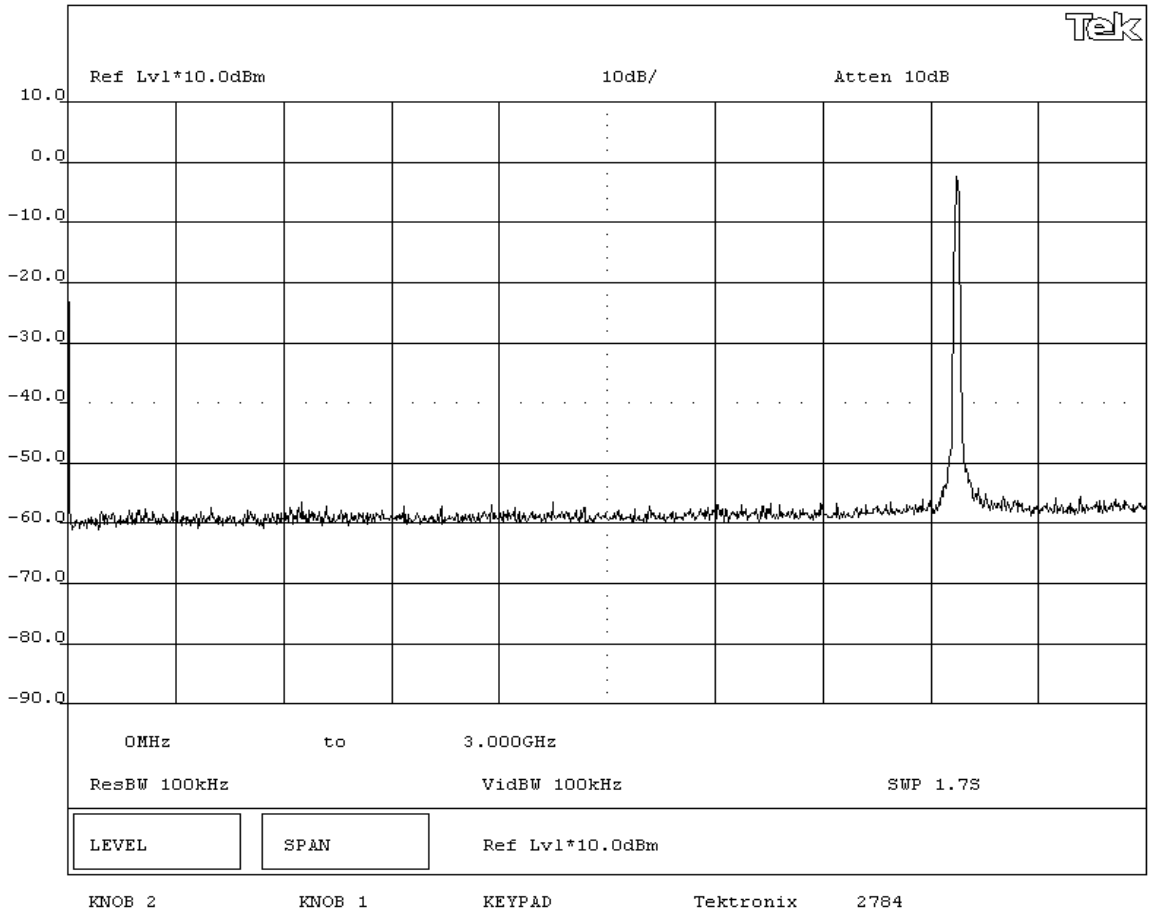
Pass

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - High Channel 0MHz-3GHz



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

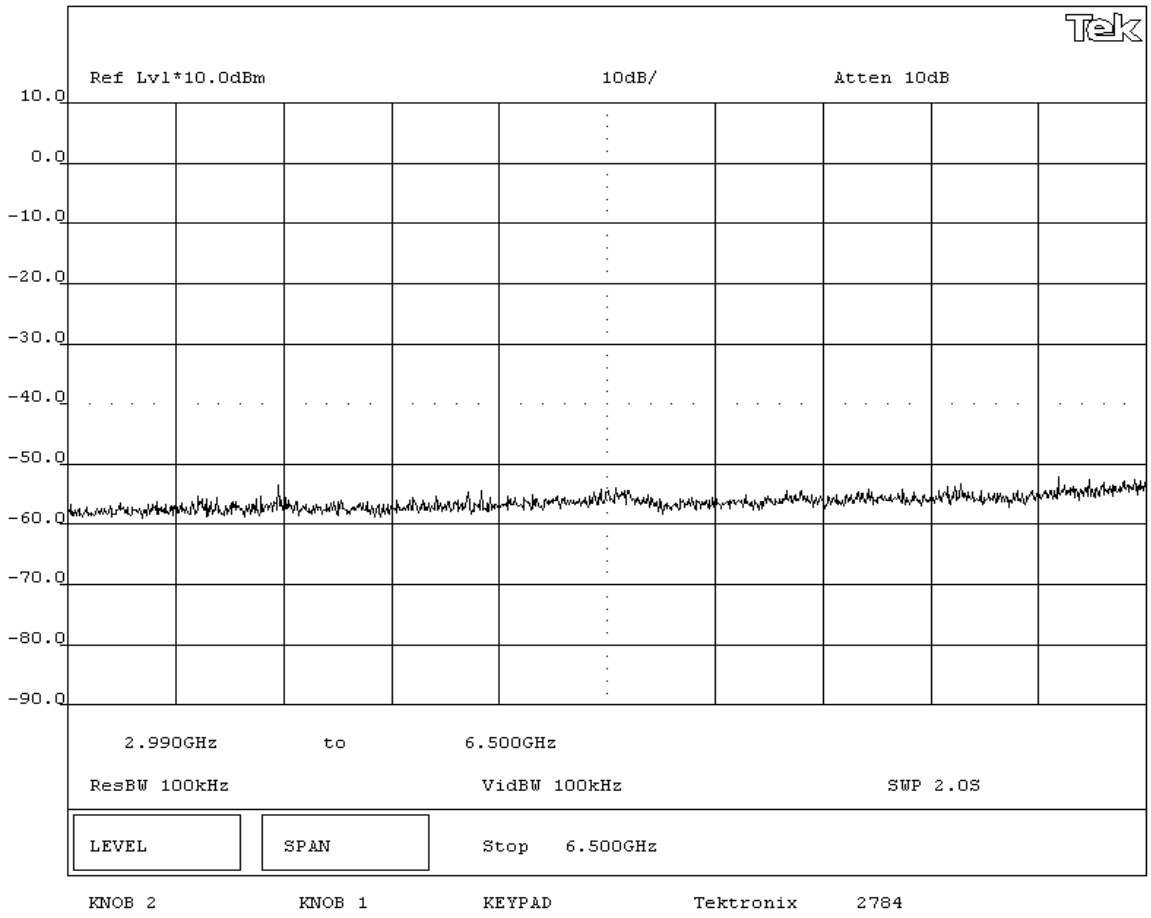
Pass

SIGNATURE

Tested By: A. U. Kiel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - High Channel 3GHz-6.5GHz



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

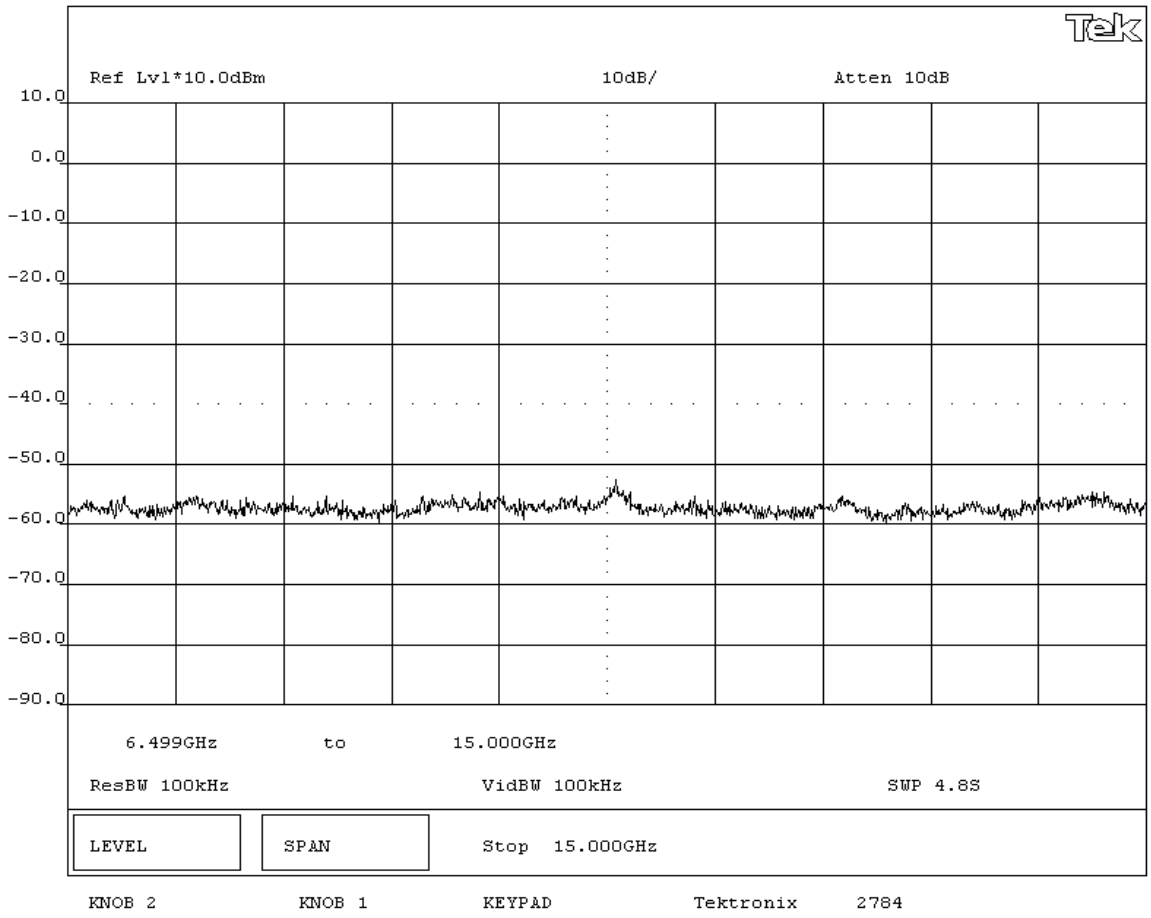
Pass

SIGNATURE

Tested By: A.J. Kiel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - High Channel 6.5GHz-15GHz



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

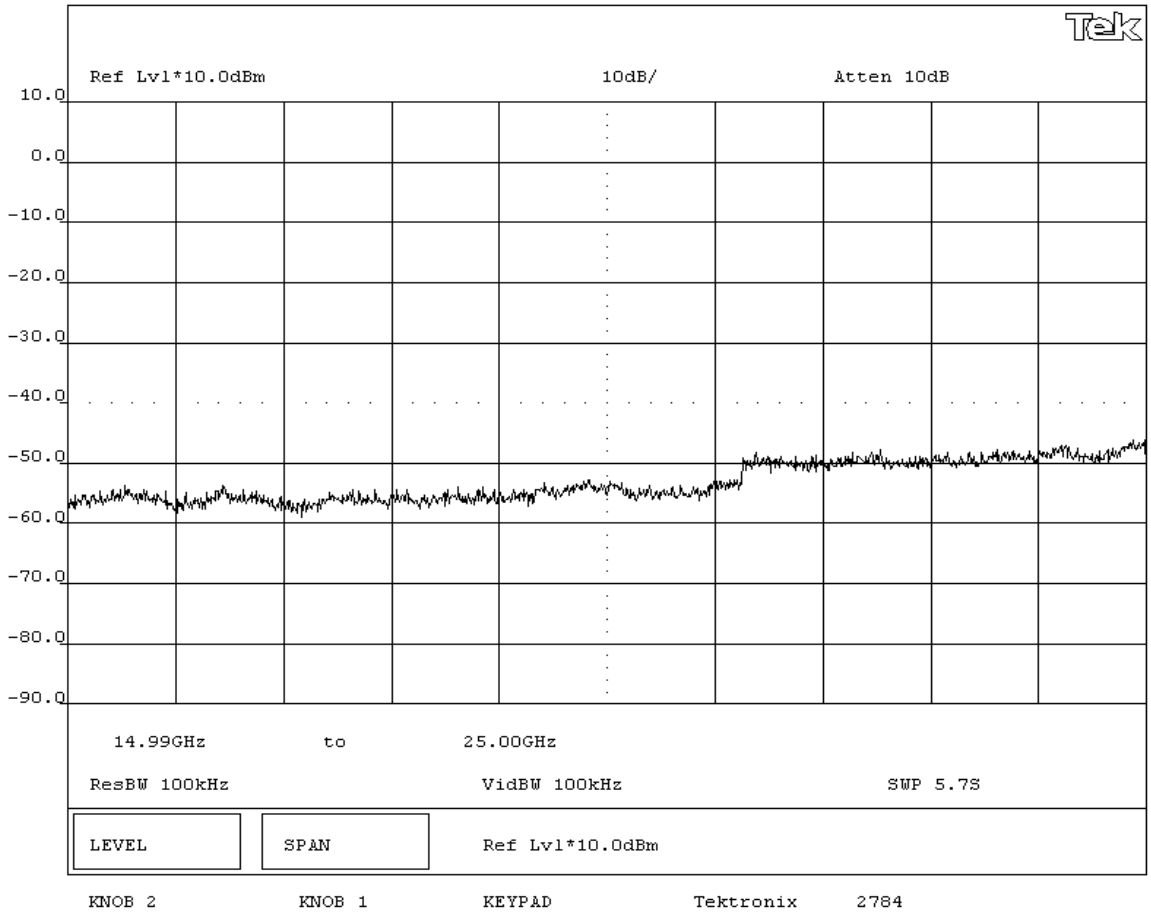
Pass

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - High Channel 15GHz-25GHz



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

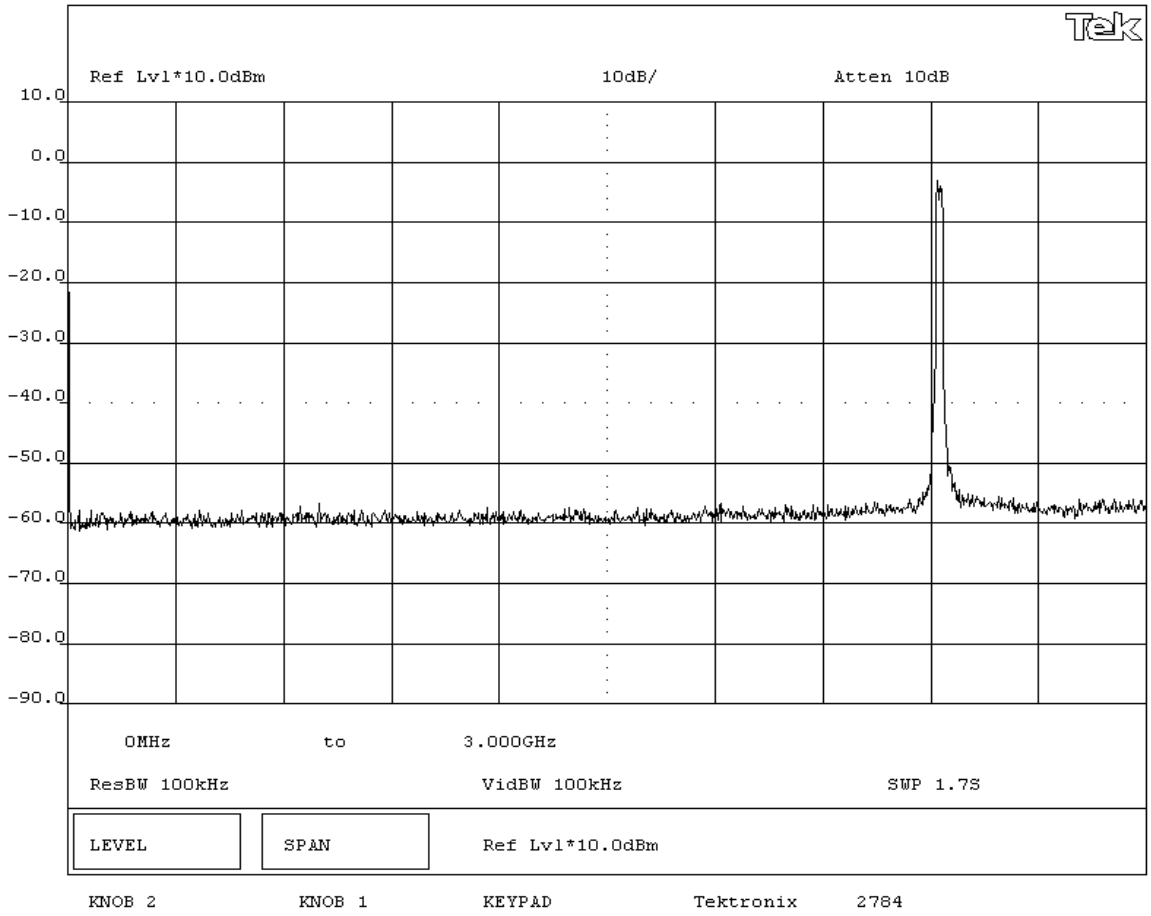
Pass

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Low Channel 0MHz-3GHz - 6 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

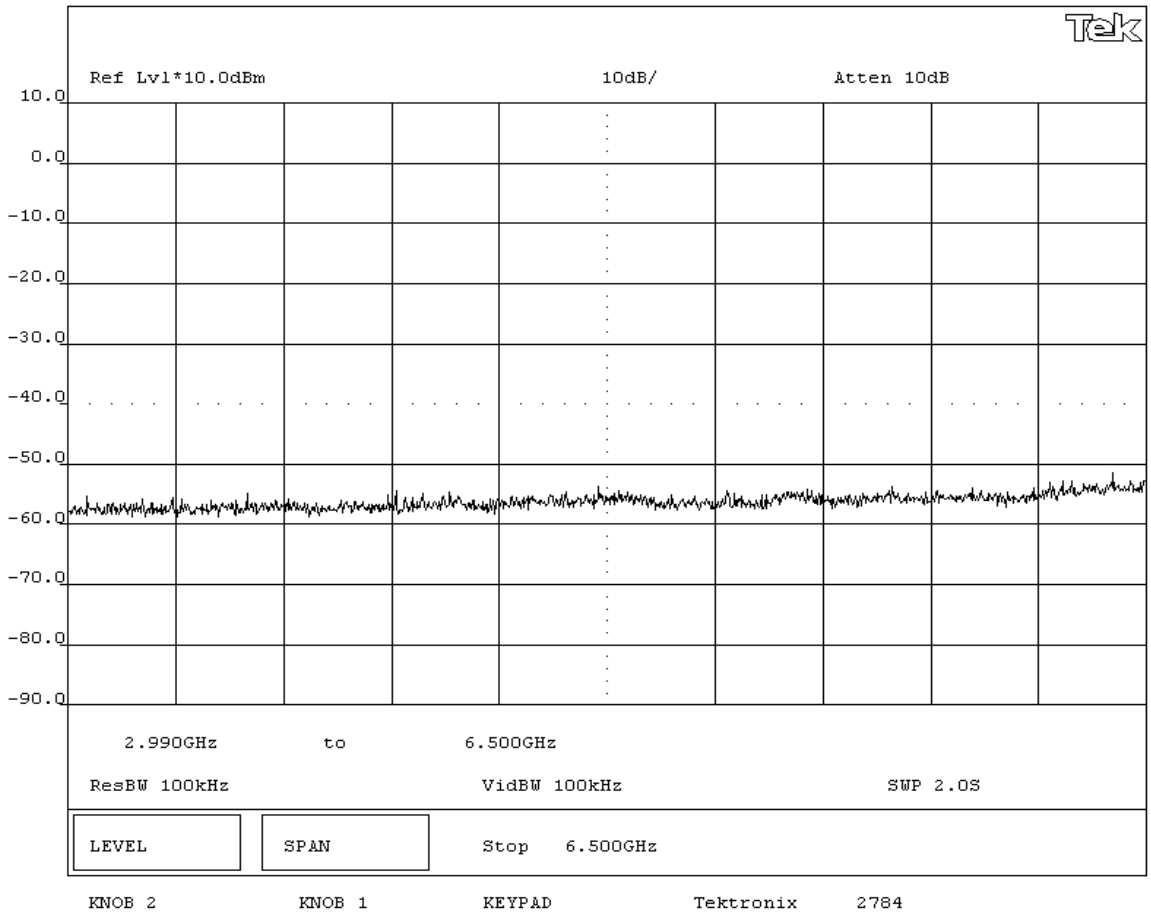
Pass

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Low Channel 3GHz-6.5GHz - 6 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

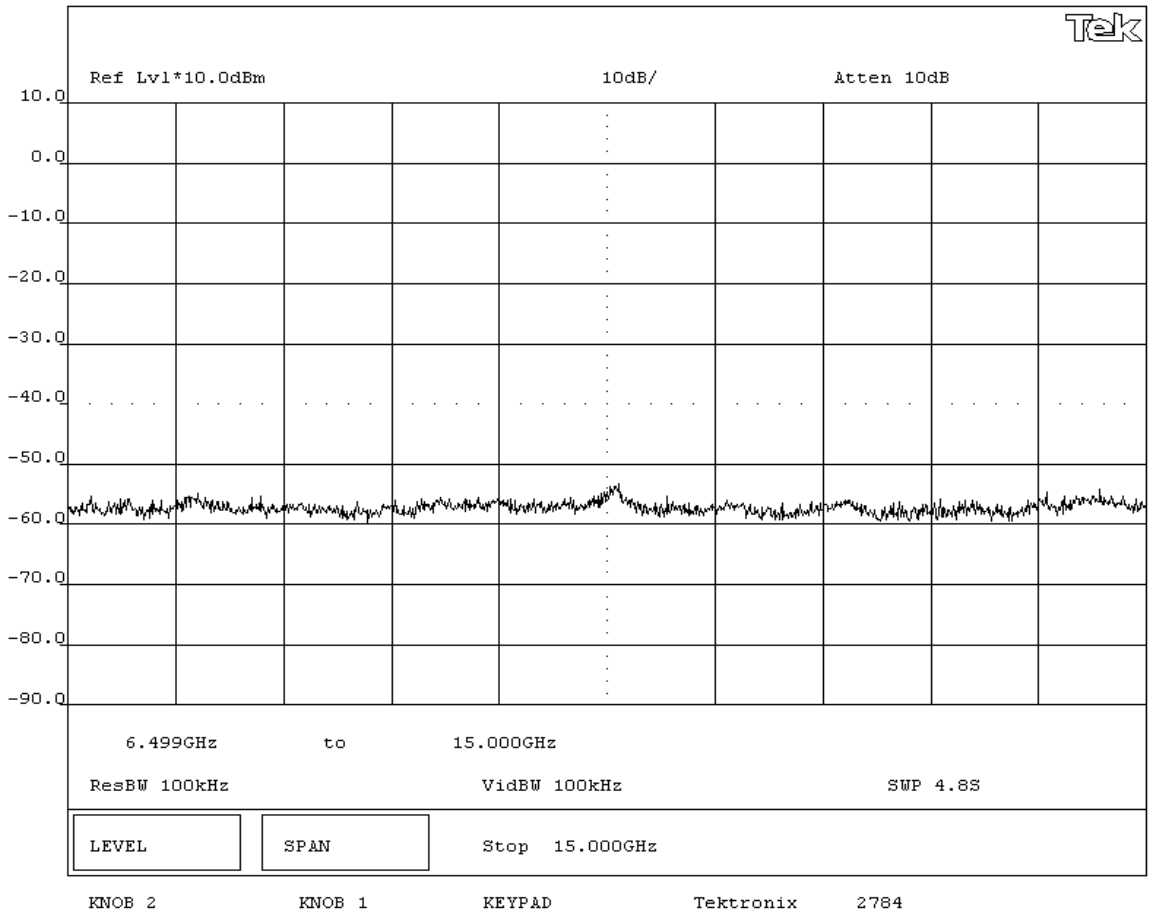
Pass

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Low Channel 6.5GHz-15GHz - 6 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

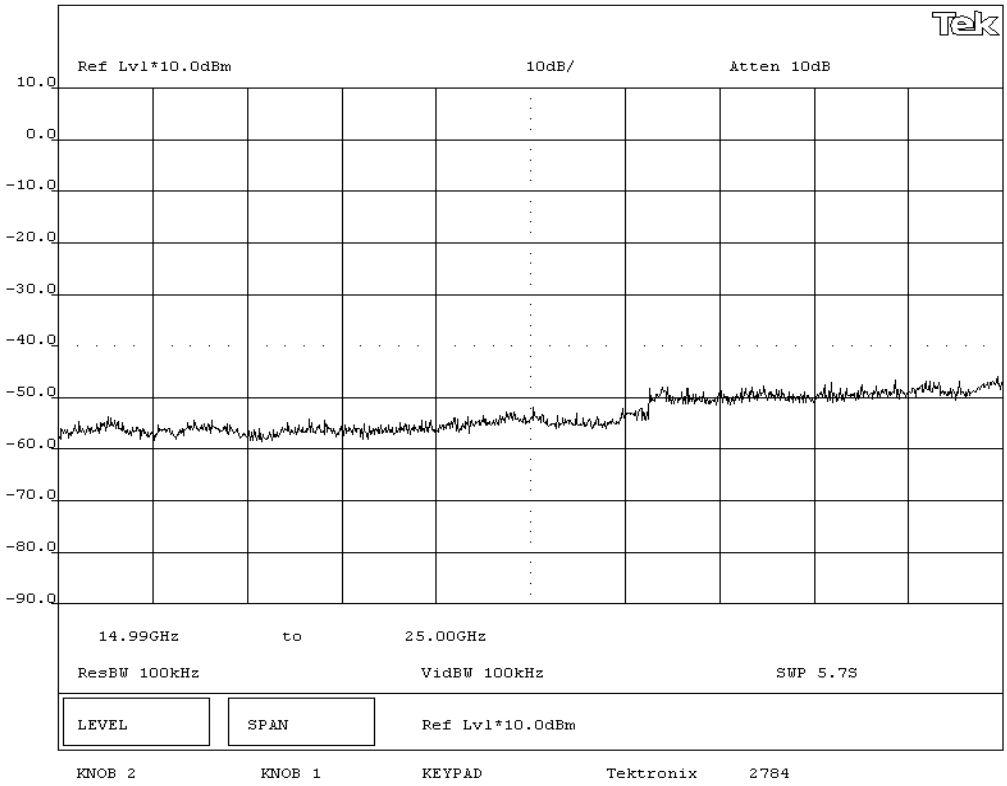
Pass

SIGNATURE

Tested By: A.J. U.K.

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Low Channel 15GHz - 25GHz 6 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

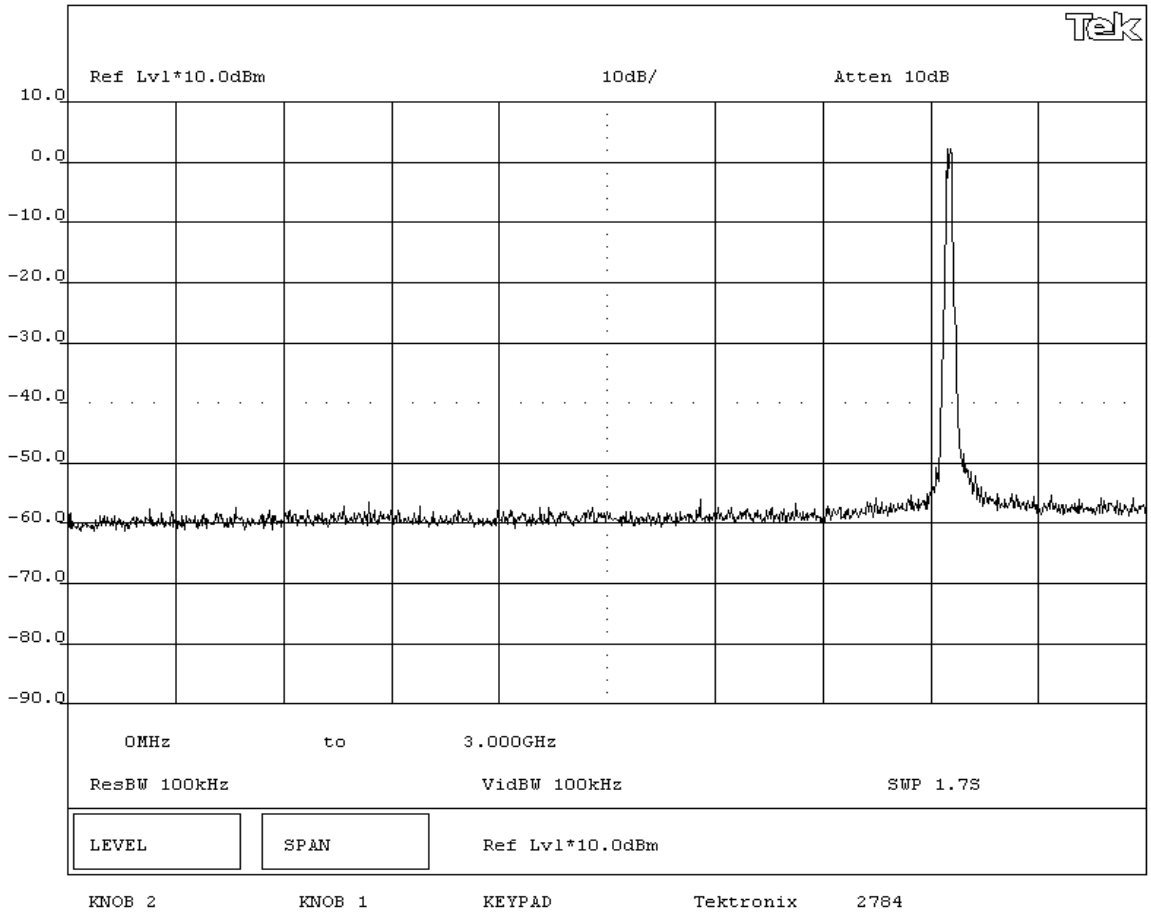
Pass

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Mid Channel 0MHz-3GHz - 6 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

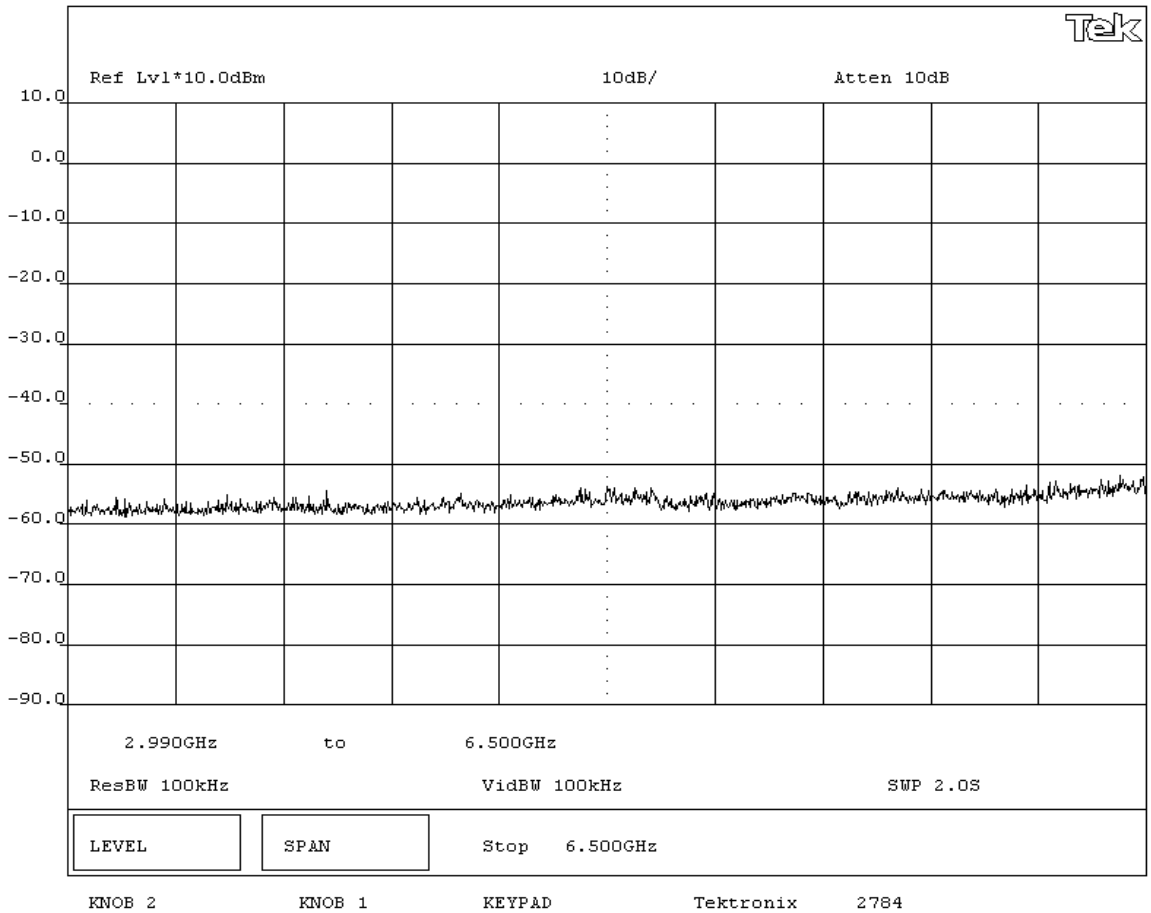
Pass

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Mid Channel 3GHz-6.5GHz - 6 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

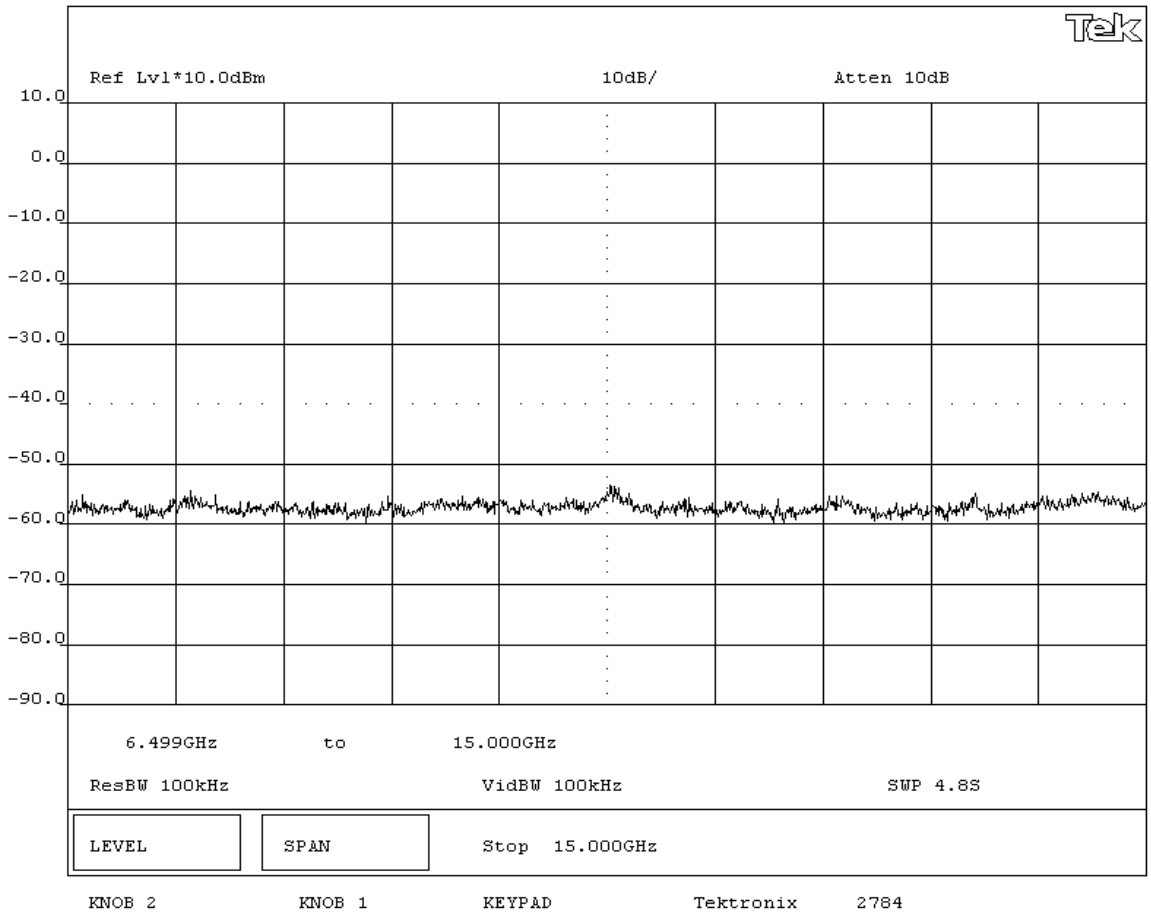
Pass

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Mid Channel 6.5GHz-15GHz - 6 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

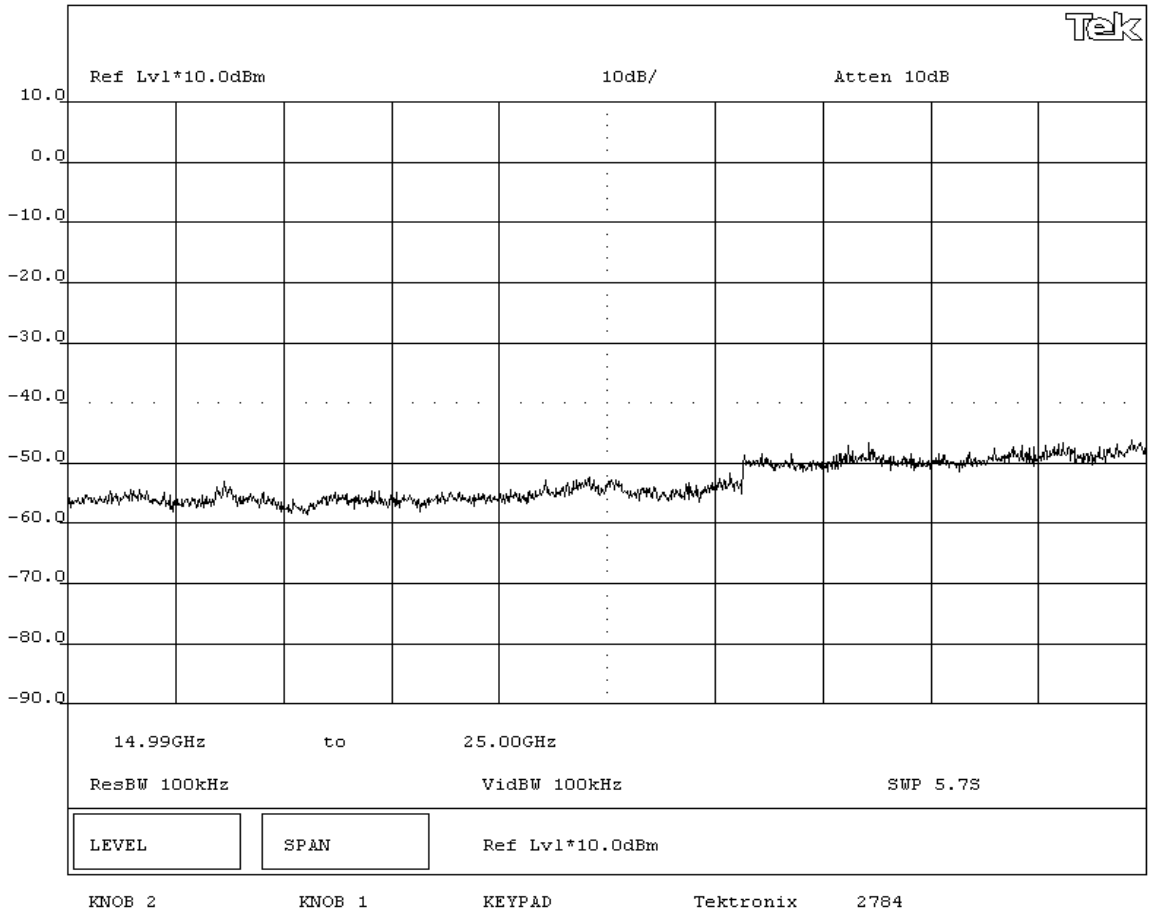
Pass

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Mid Channel 15GHz-25GHz - 6 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

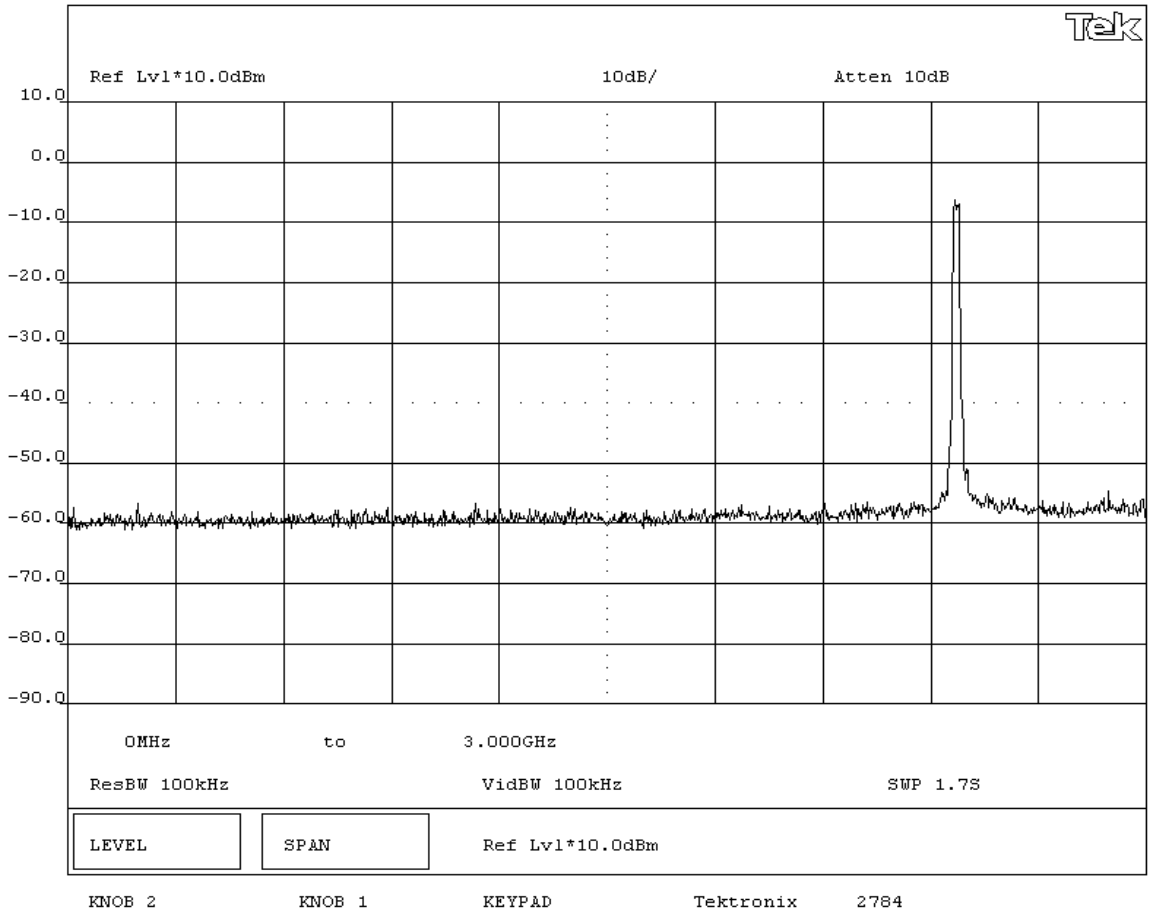
Pass

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - High Channel 0MHz-3GHz - 6 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

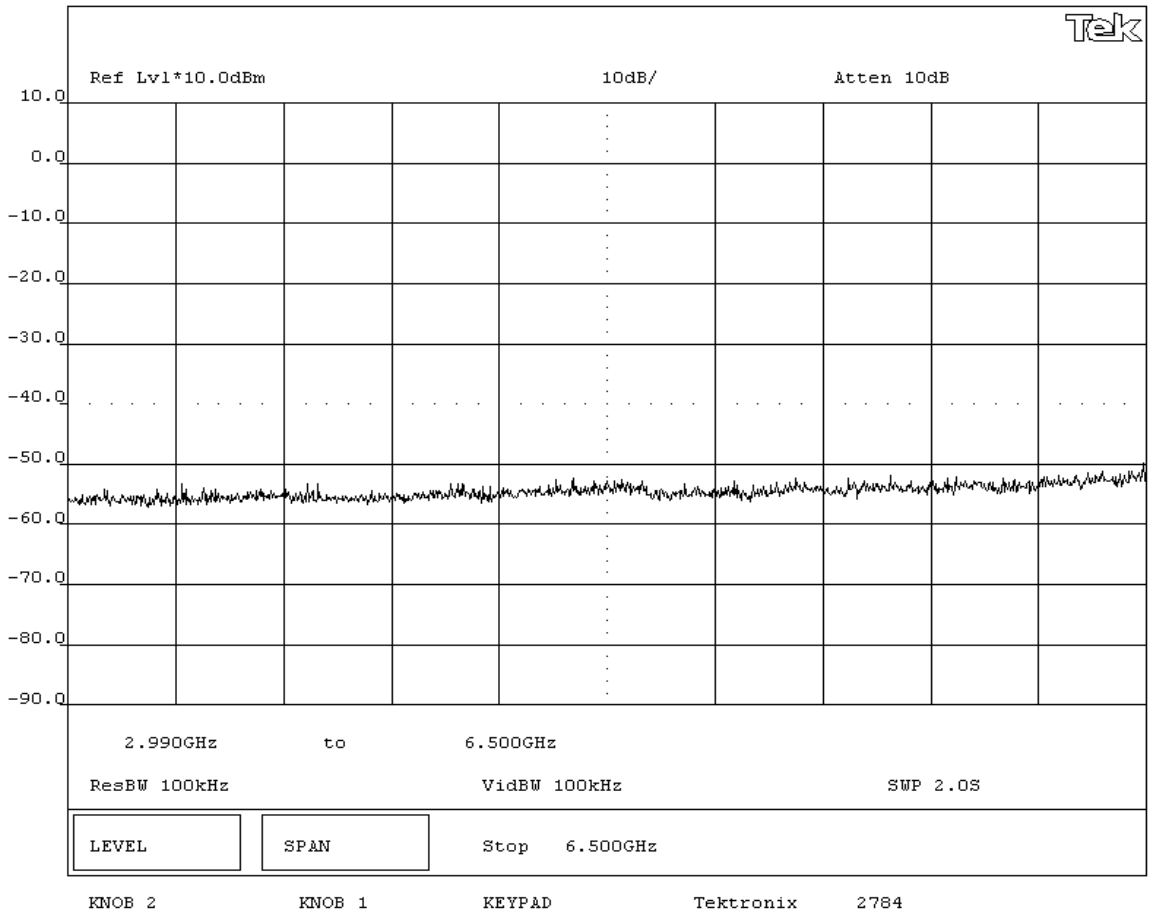
Pass

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - High Channel 3GHz-6.5GHz - 6 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

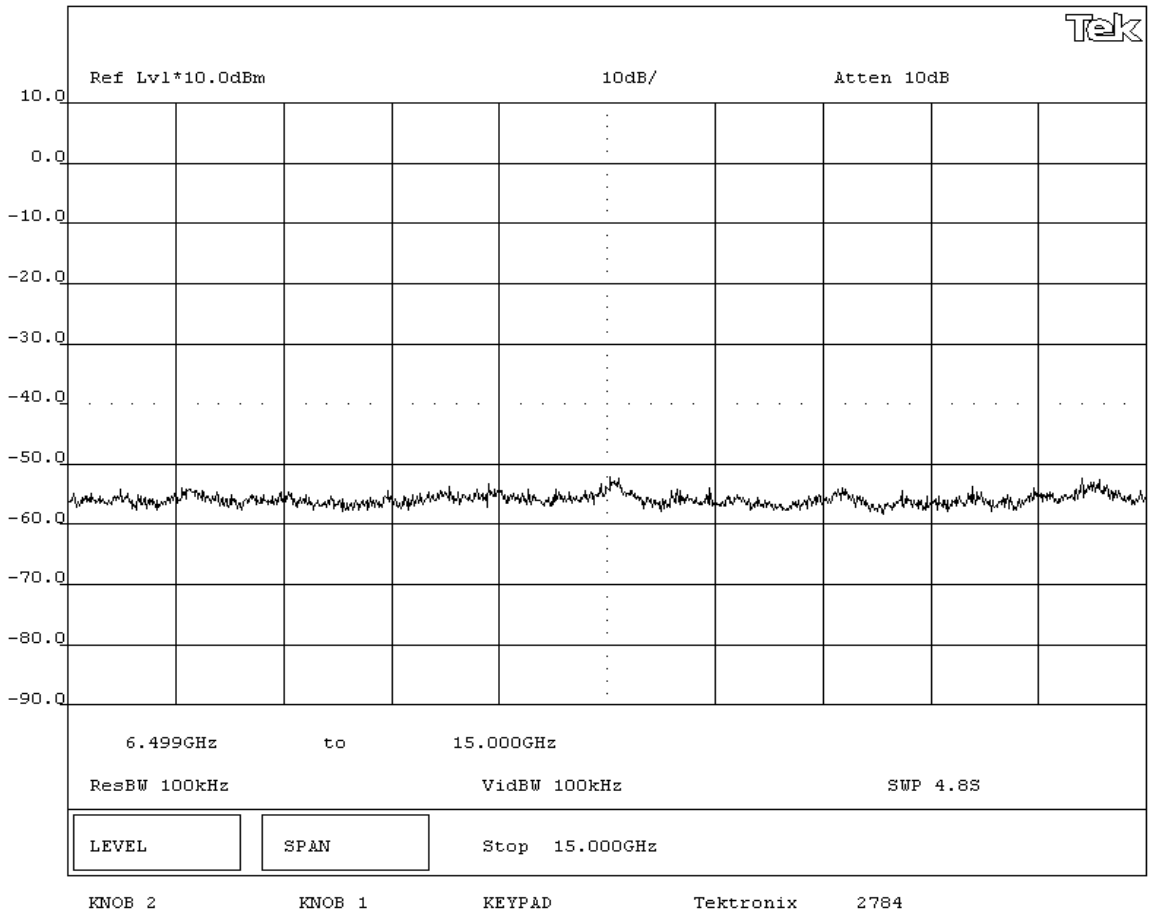
Pass

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - High Channel 6.5GHz-15GHz - 6 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

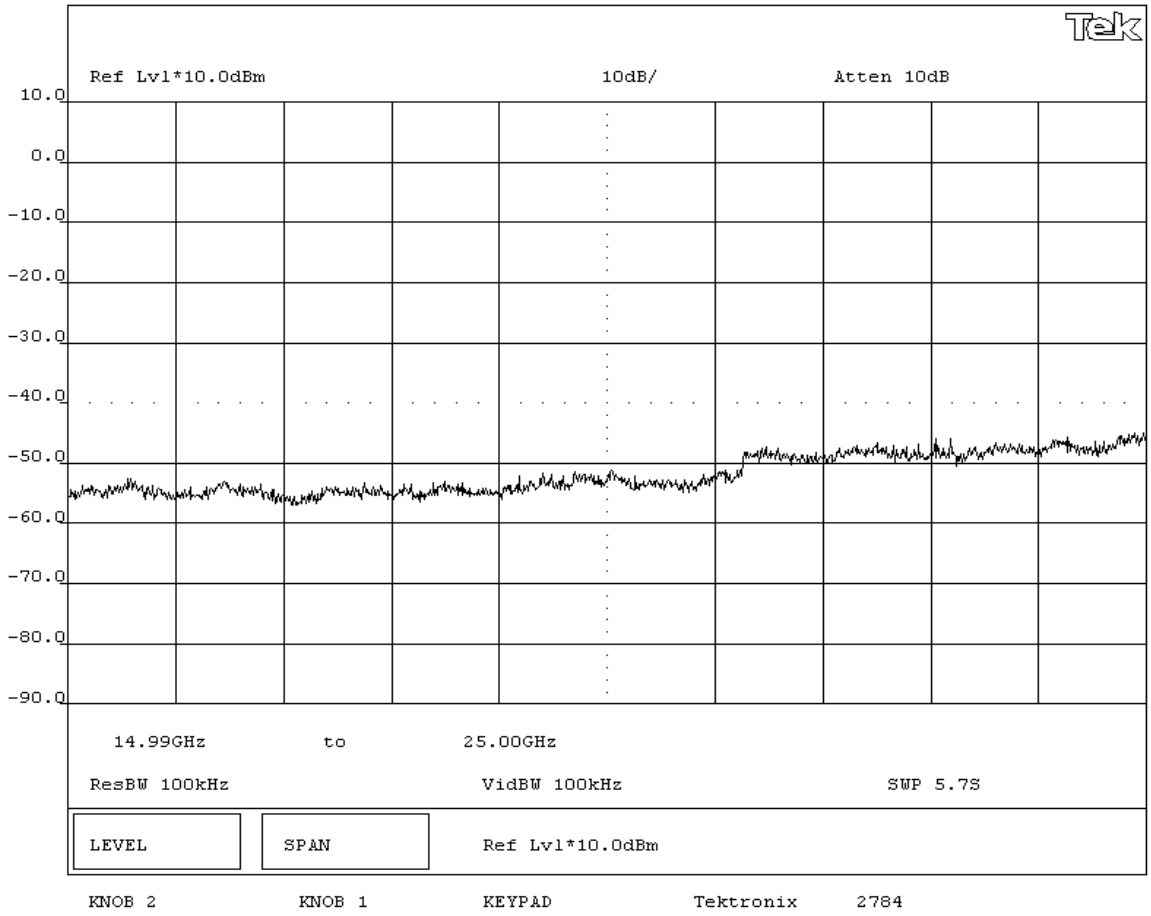
Pass

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - High Channel 15GHz-25GHz - 6 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

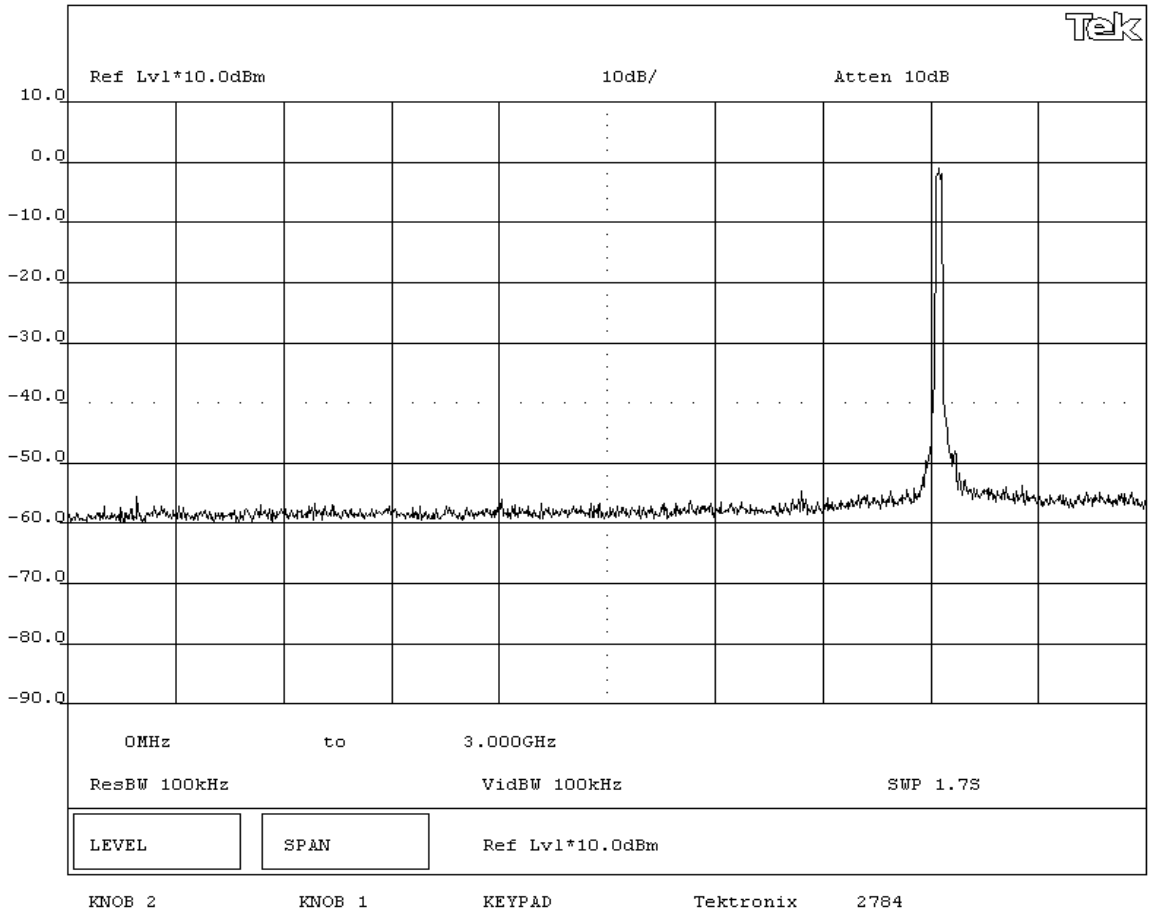
Pass

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Low Channel 0MHz-3GHz - 36 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

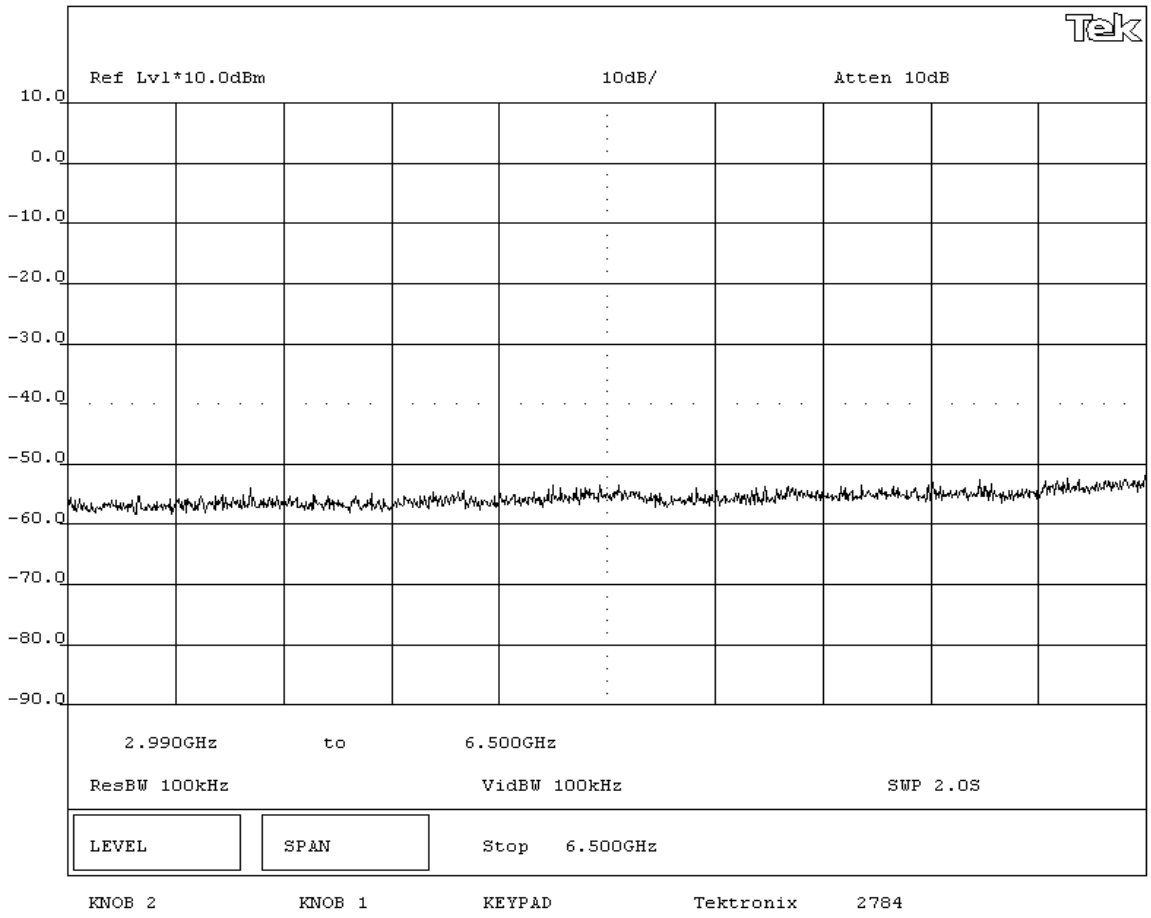
Pass

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Low Channel 3GHz-6.5GHz - 36 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

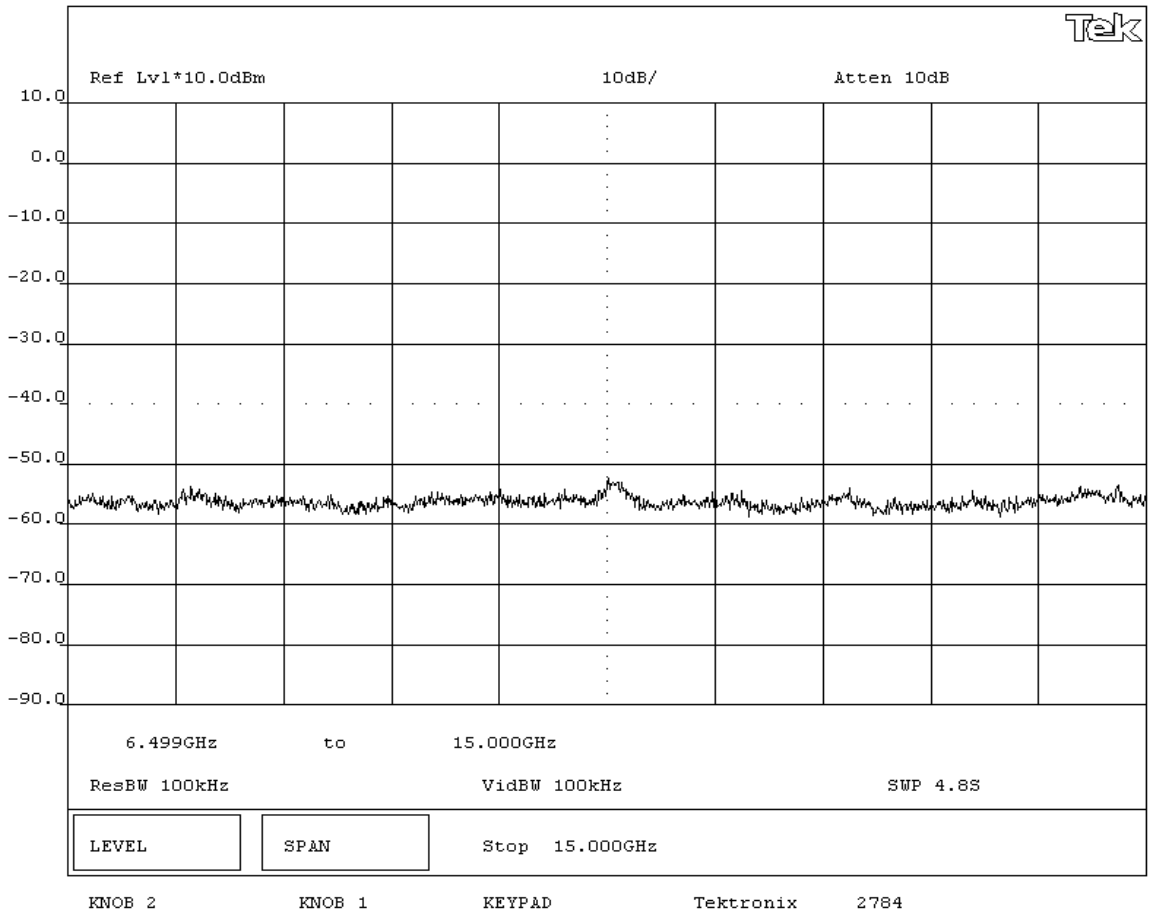
Pass

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Low Channel 6.5GHz-15GHz - 36 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

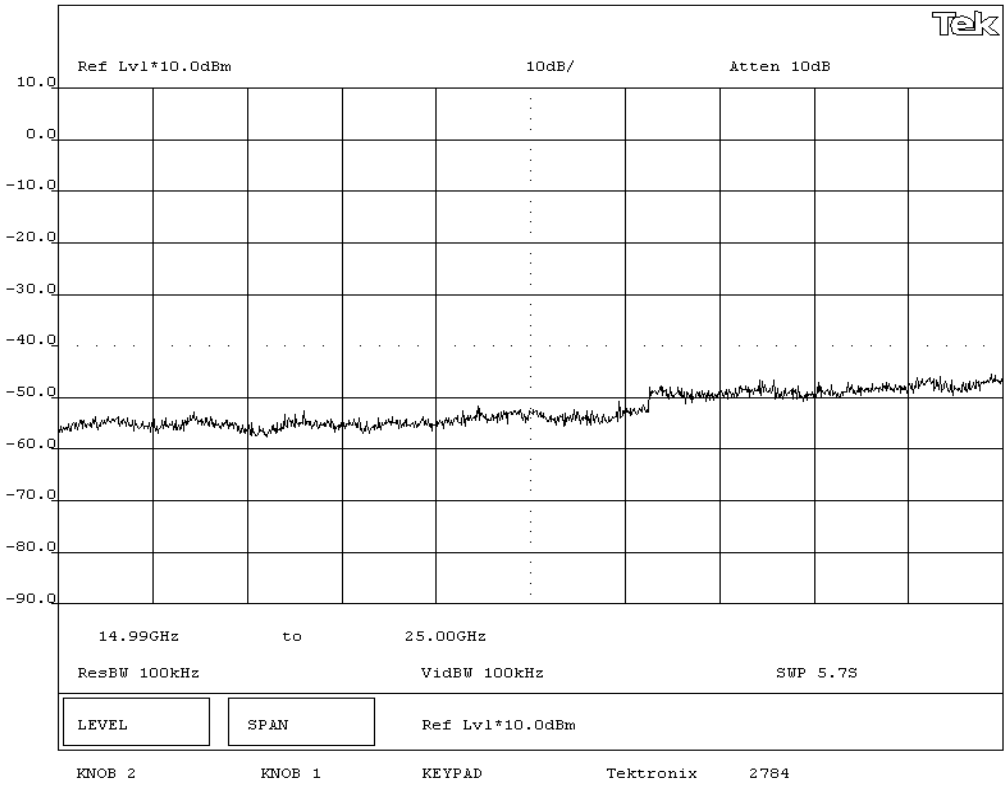
Pass

SIGNATURE

Tested By: A.J. U.K.

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Low Channel 15GHz - 25GHz - 36 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

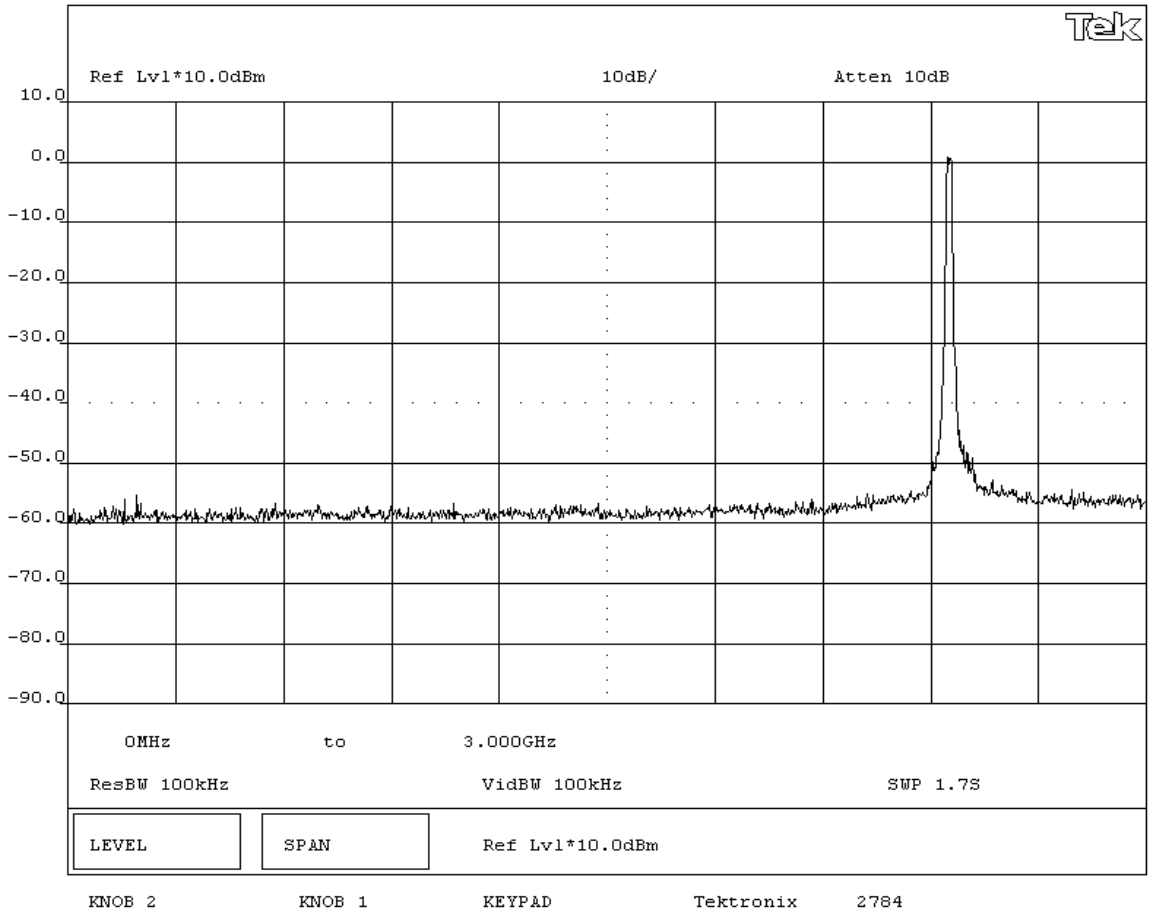
Pass

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Mid Channel 0MHz-3GHz - 36 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

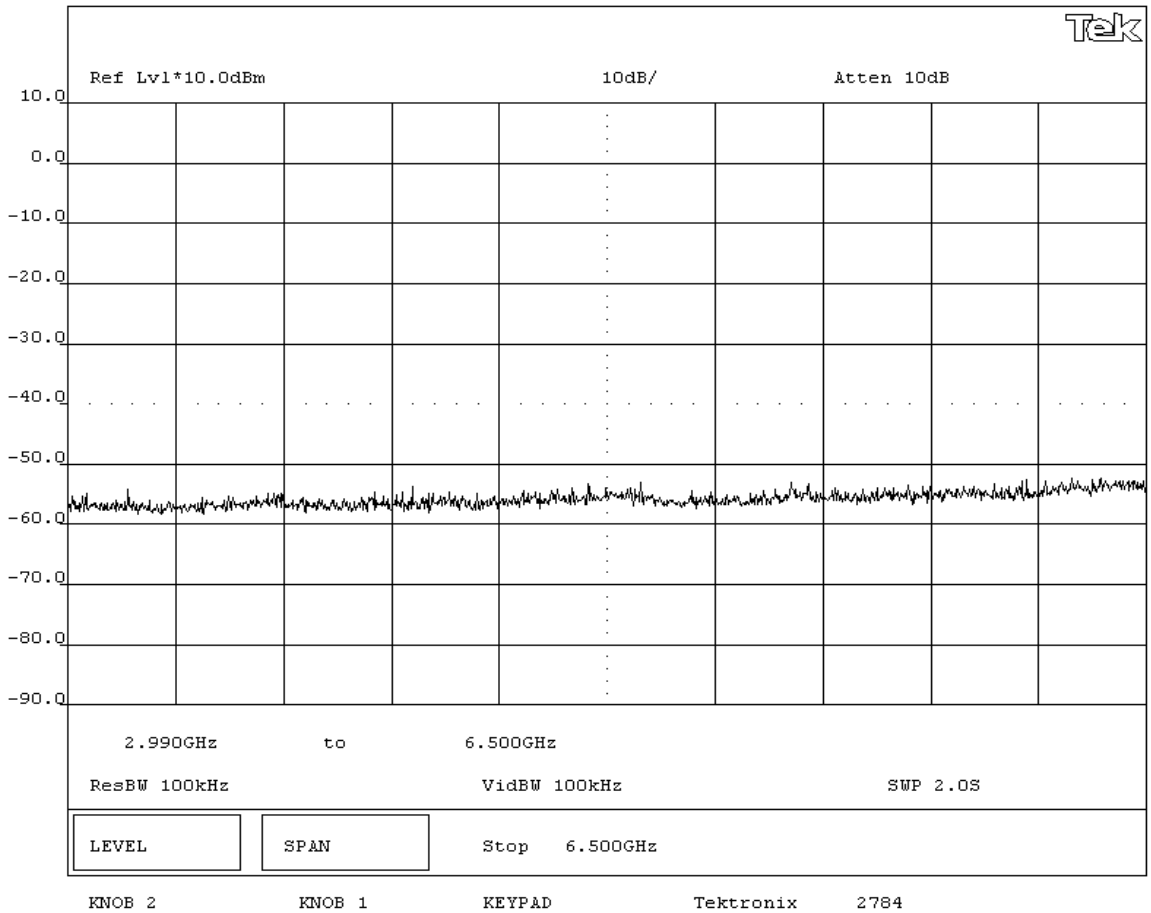
Pass

SIGNATURE

Tested By: U. Kiemel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Mid Channel 3GHz-6.5GHz - 36 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

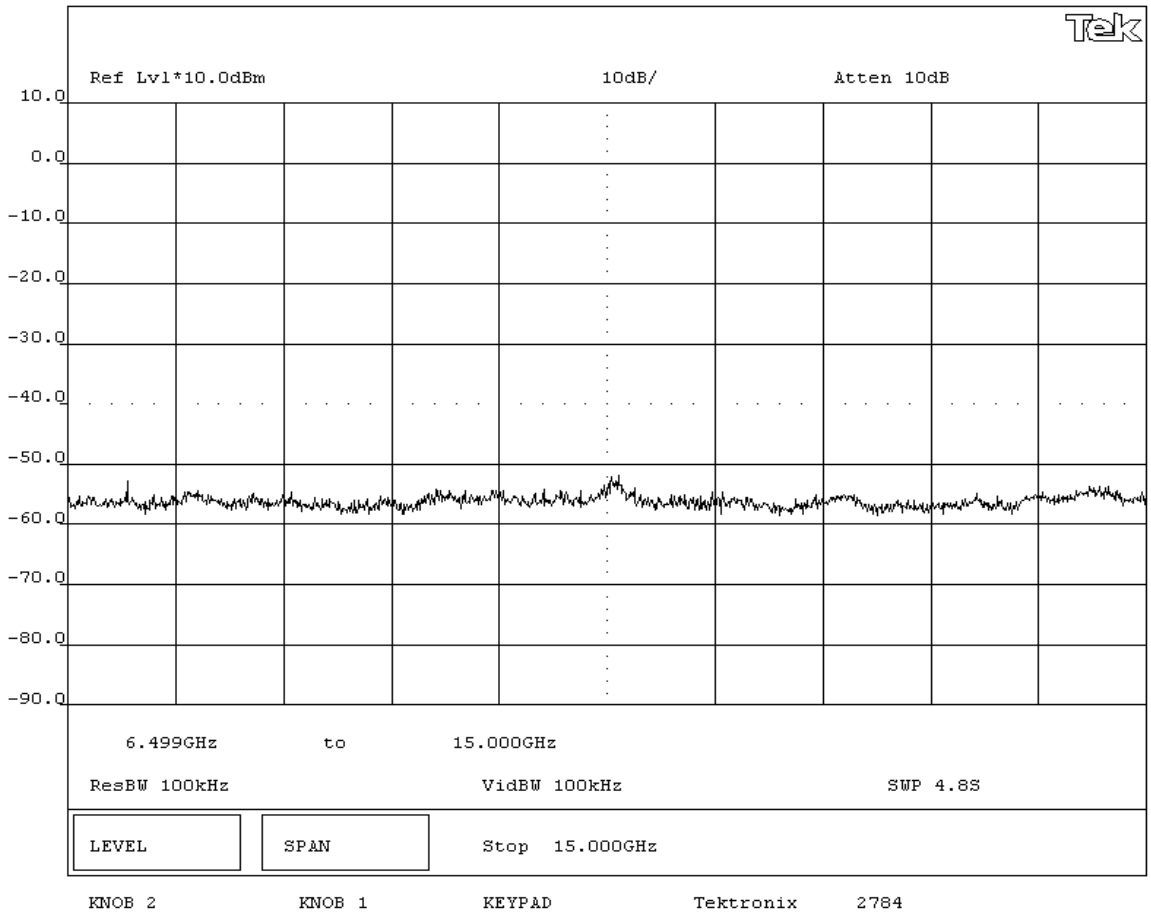
Pass

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Mid Channel 6.5GHz-15GHz - 36 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

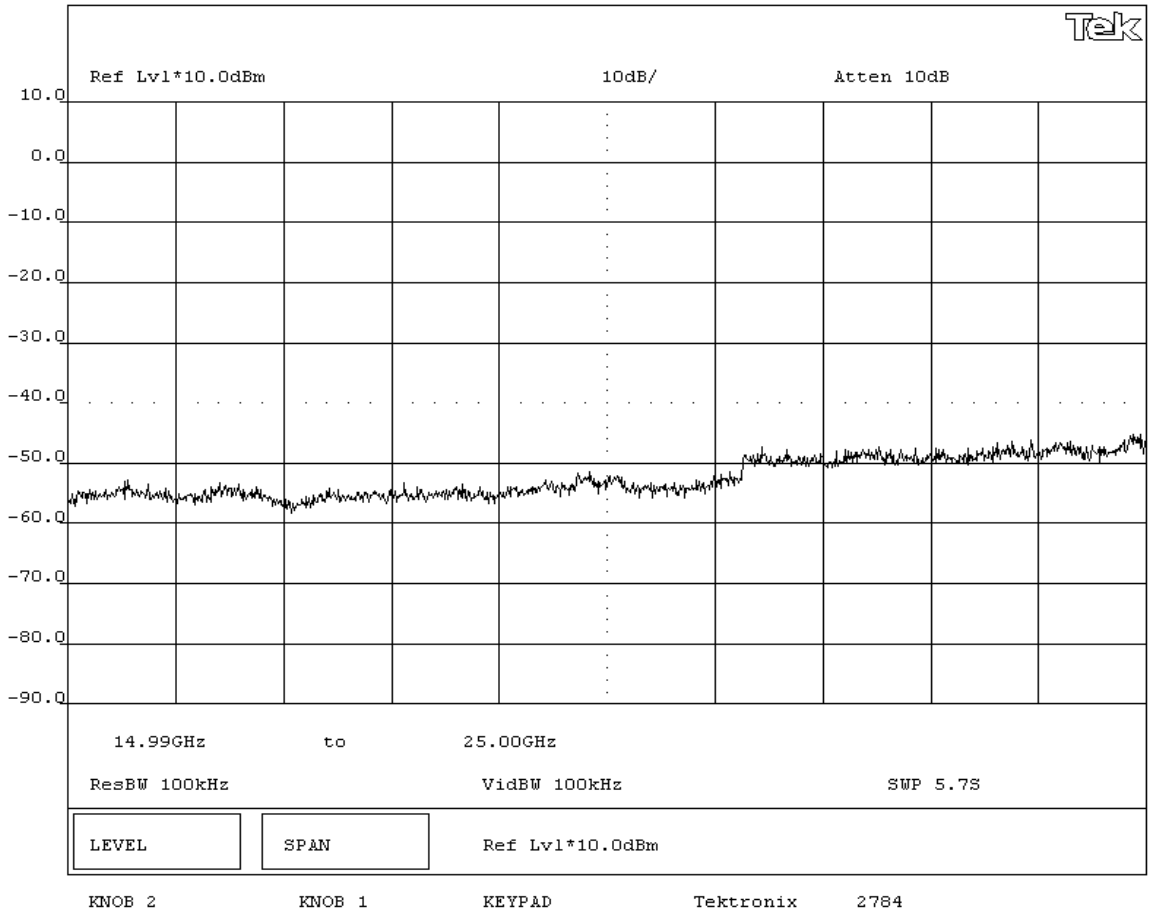
Pass

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Mid Channel 15GHz-25GHz - 36 Mbit



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

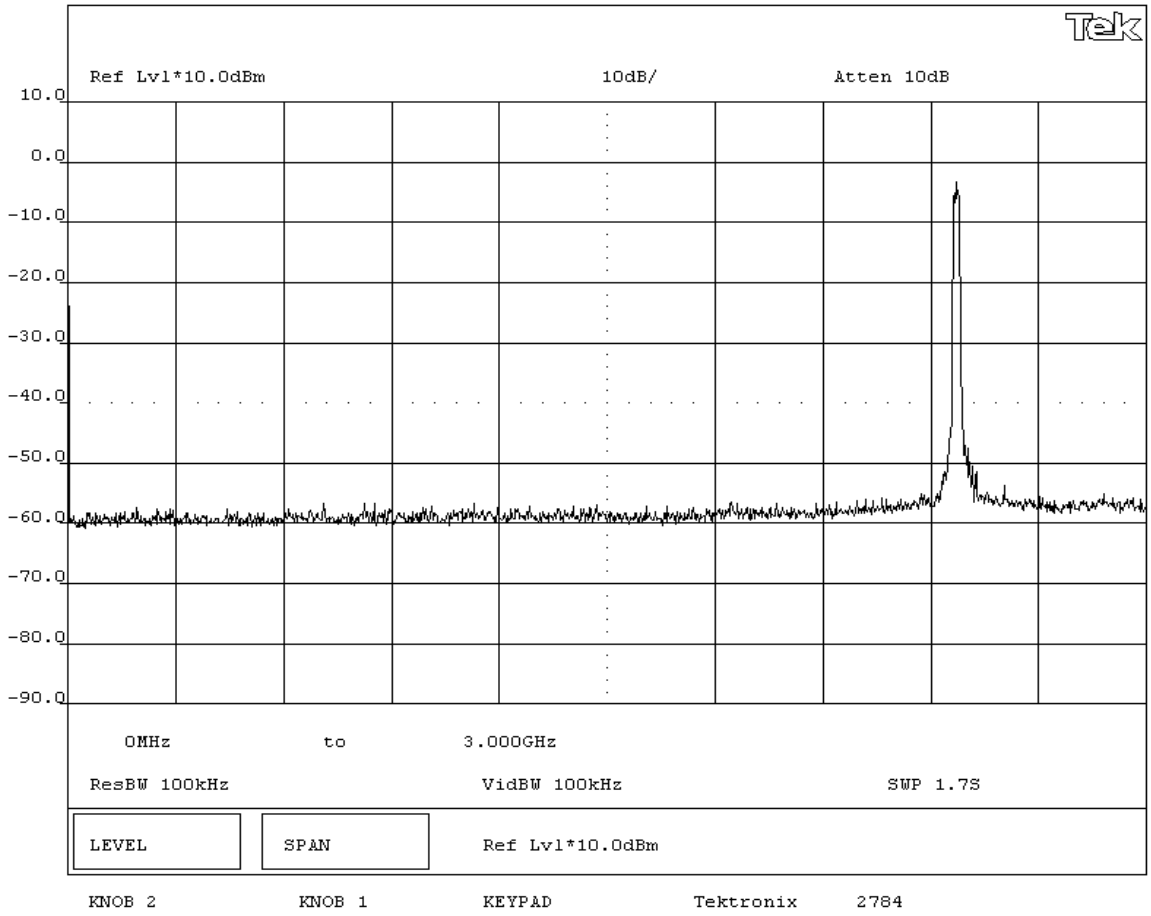
Pass

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - High Channel 0MHz-3GHz - 36 Mbit



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

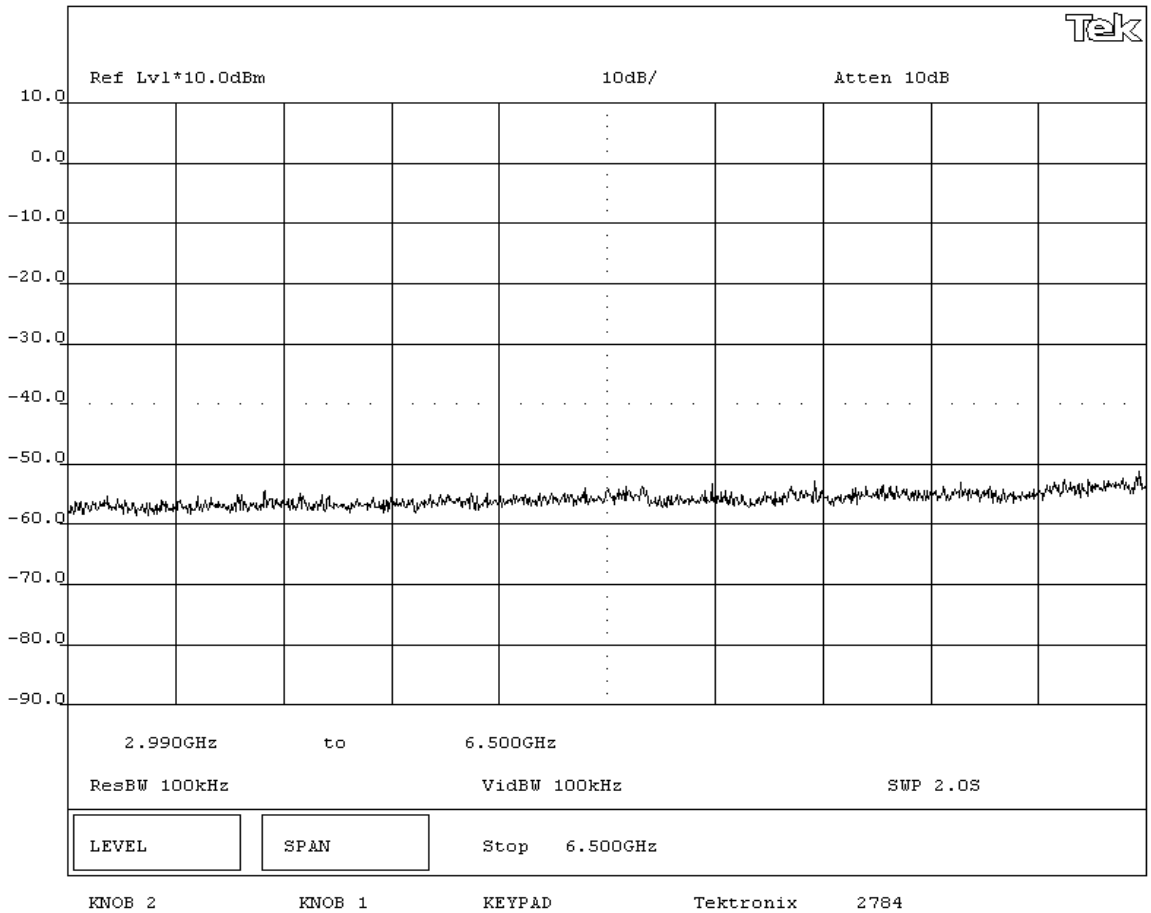
Pass

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - High Channel 3GHz-6.5GHz - 36 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

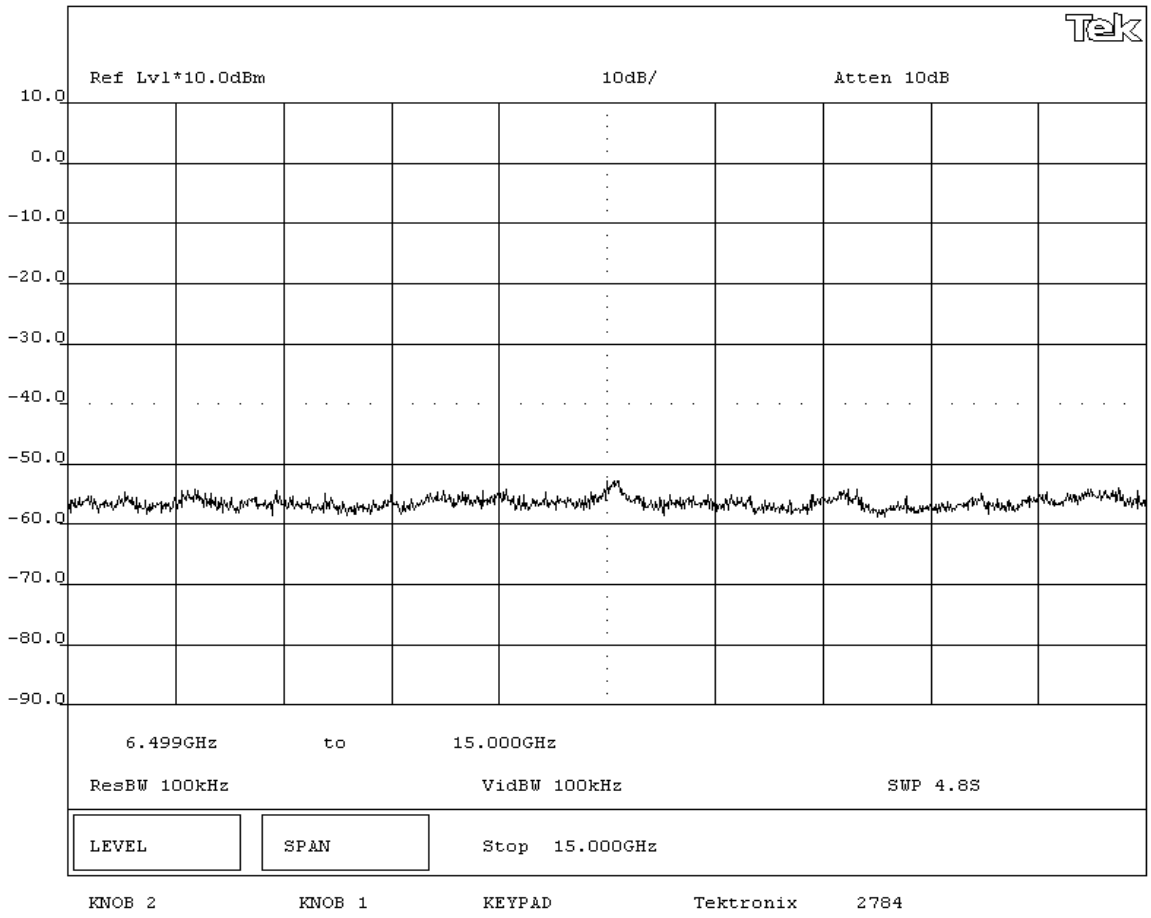
Pass

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - High Channel 6.5GHz-15GHz - 36 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

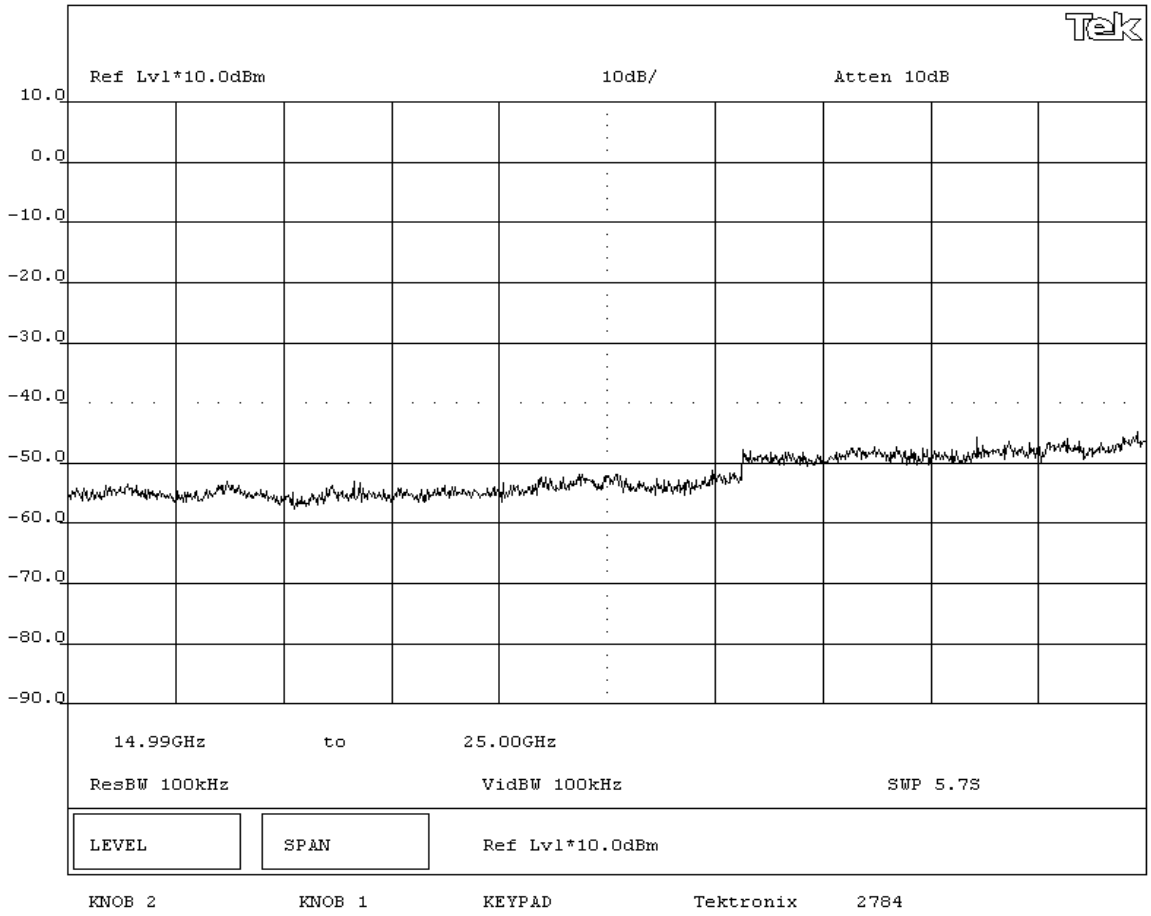
Pass

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - High Channel 15GHz-25GHz - 36 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

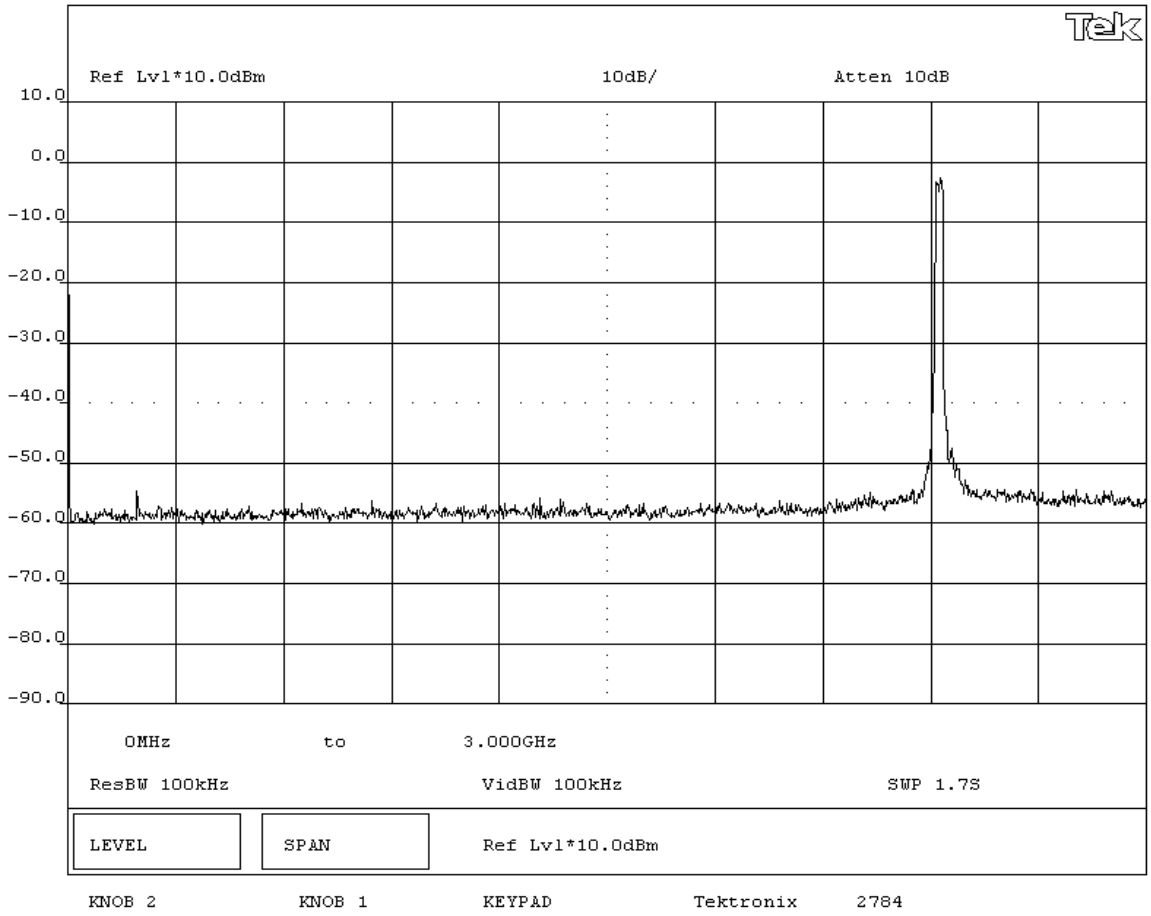
Pass

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Low Channel 0MHz-3GHz - 54 Mbit



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

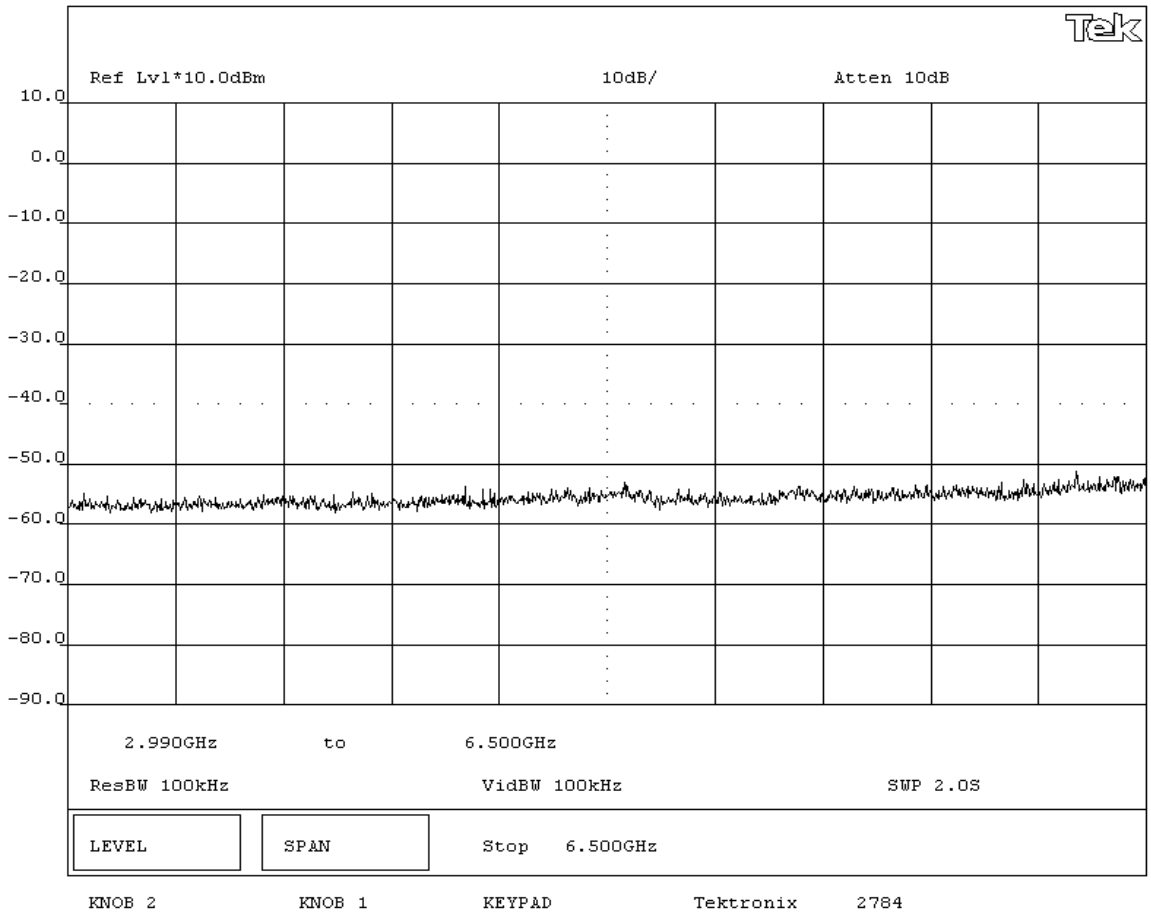
Pass

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Low Channel 3GHz-6.5GHz - 54 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

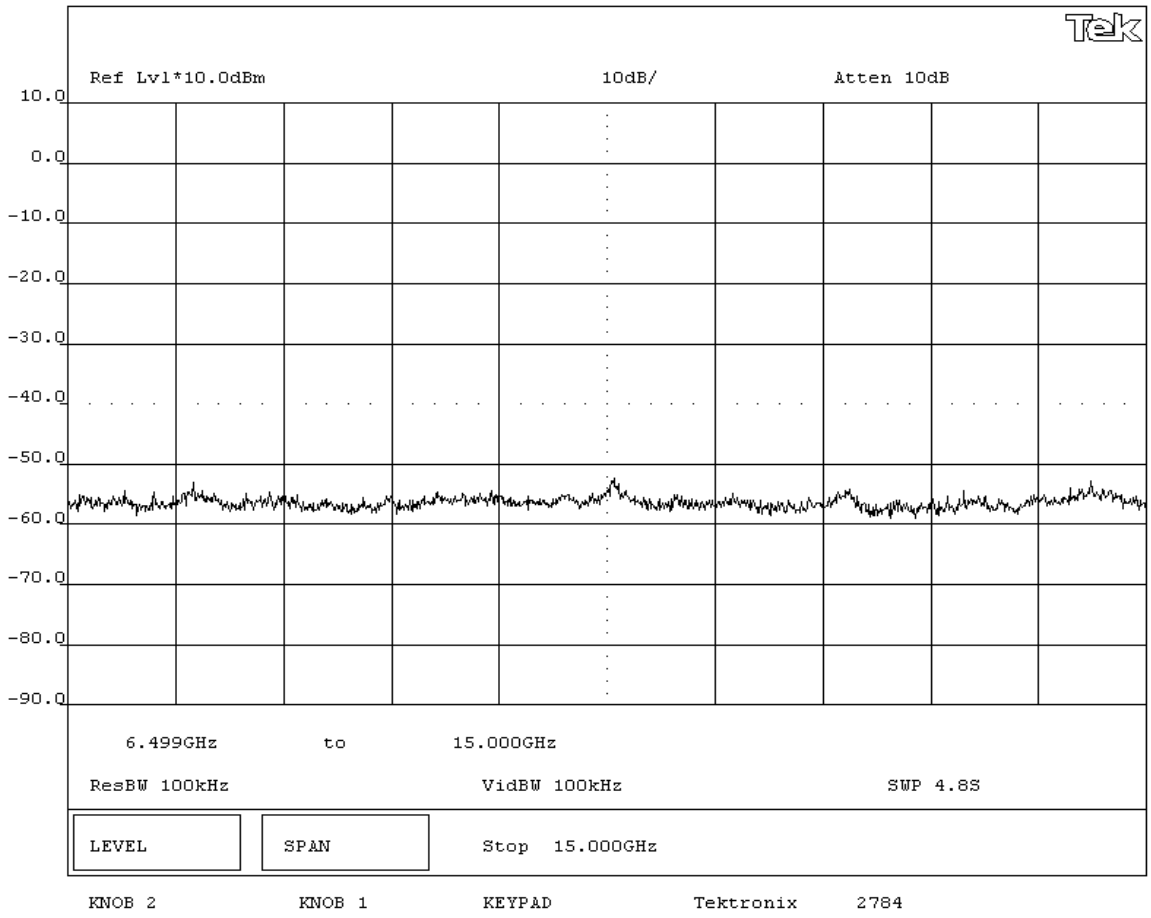
Pass

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Low Channel 6.5GHz-15GHz - 54 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

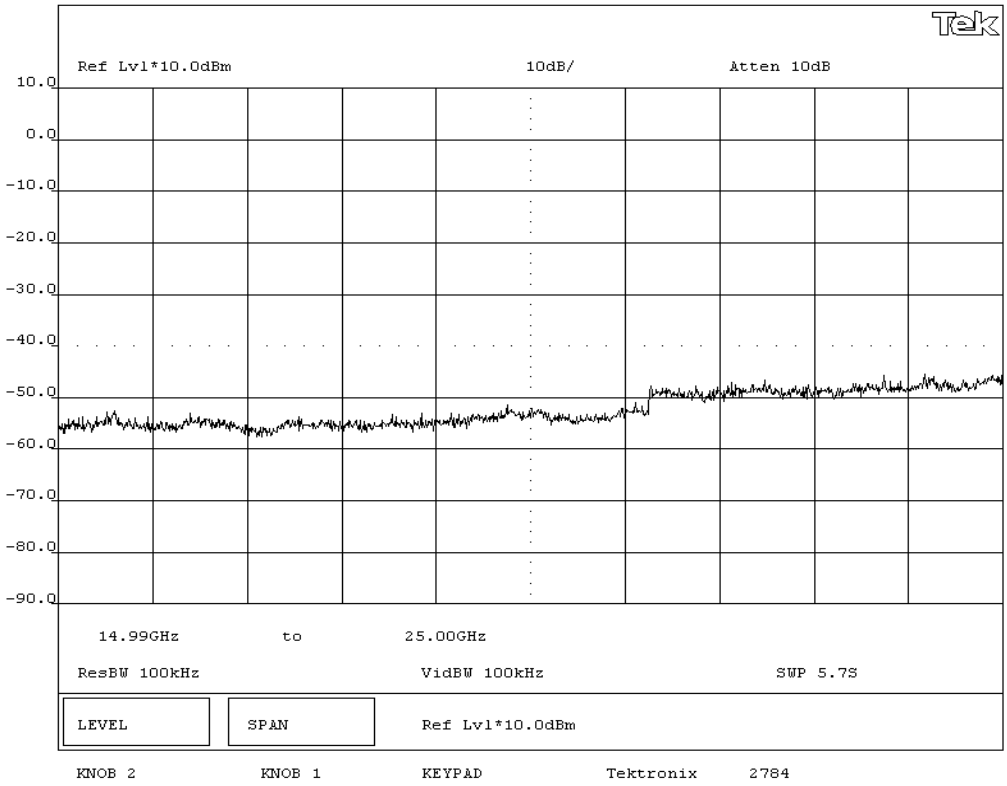
Pass

SIGNATURE

Tested By: A.J. U.K.

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Low Channel 15GHz - 25GHz - 54 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

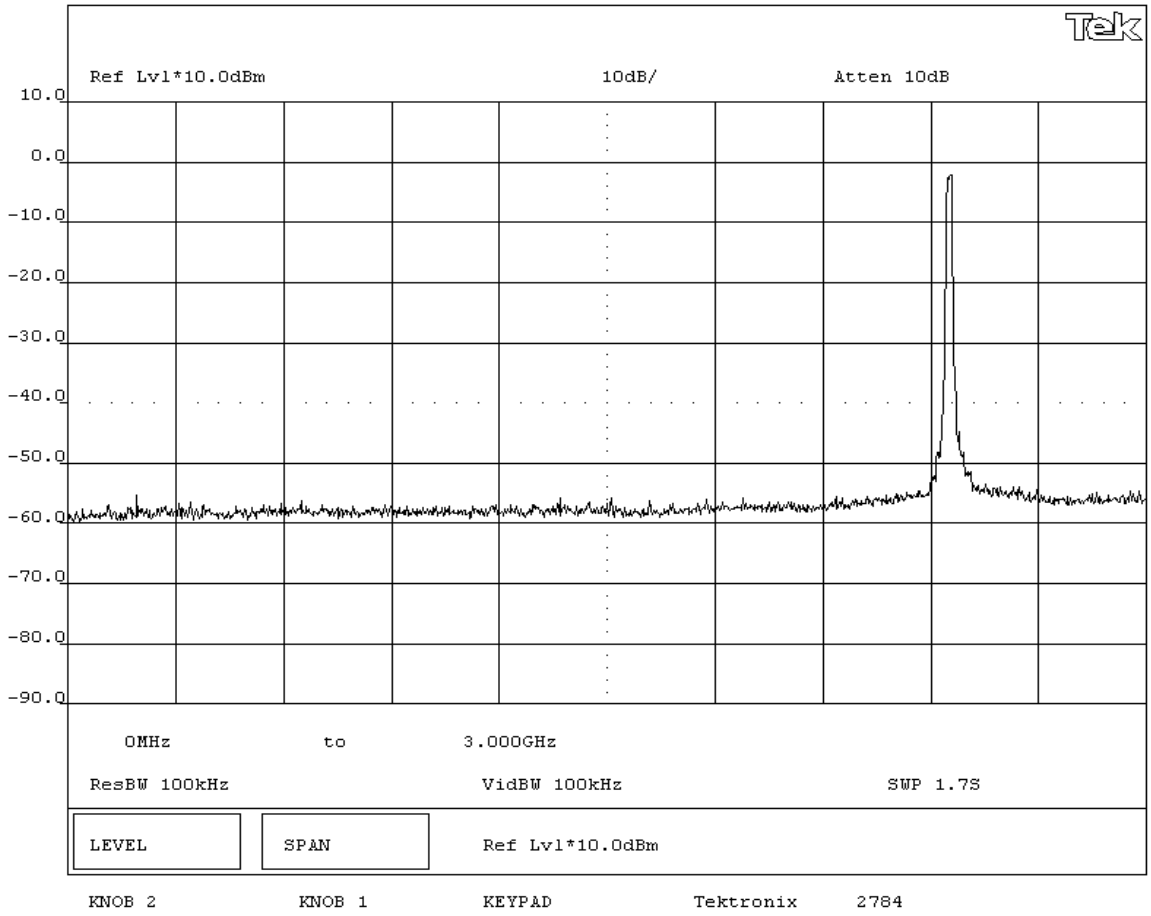
Pass

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Mid Channel 0MHz-3GHz - 54 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

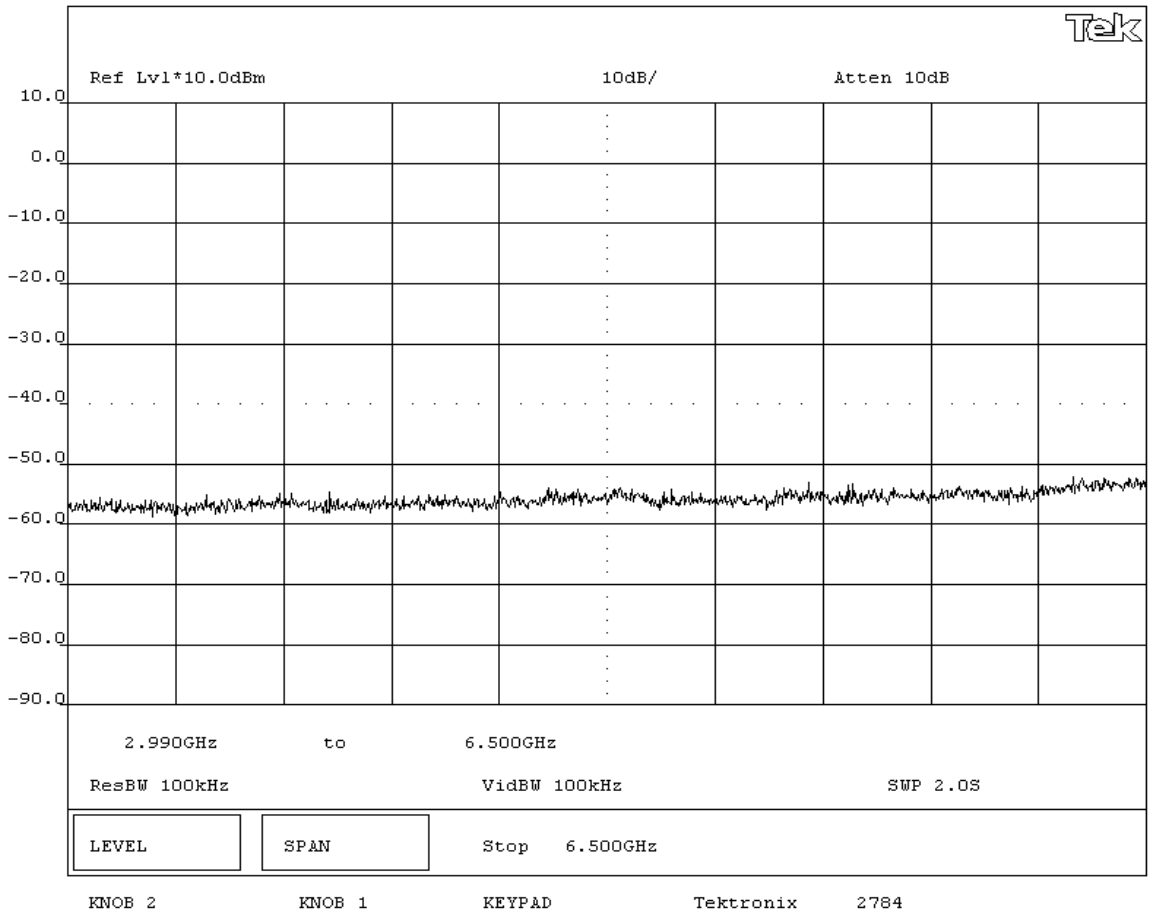
Pass

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Mid Channel 3GHz-6.5GHz - 54 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

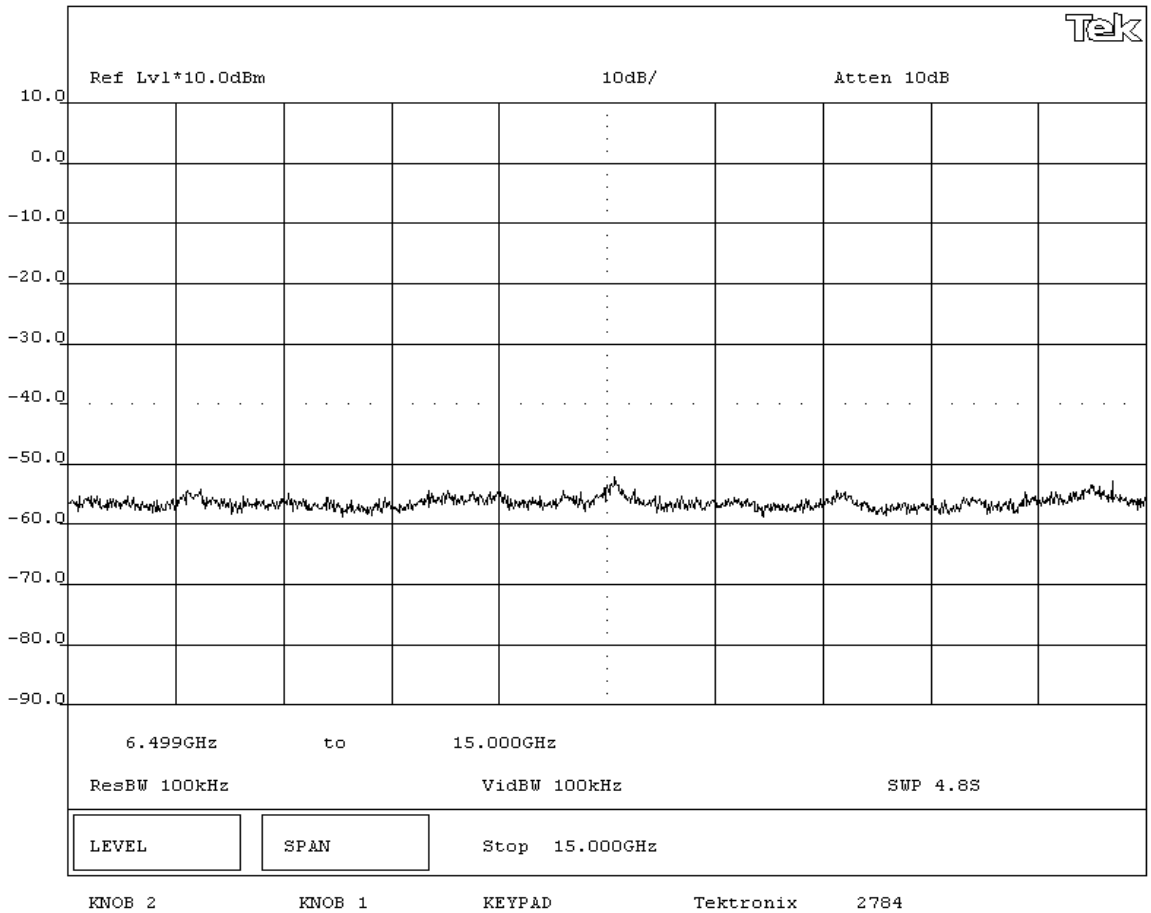
Pass

SIGNATURE

Tested By: U. Kiel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Mid Channel 6.5GHz-15GHz - 54 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

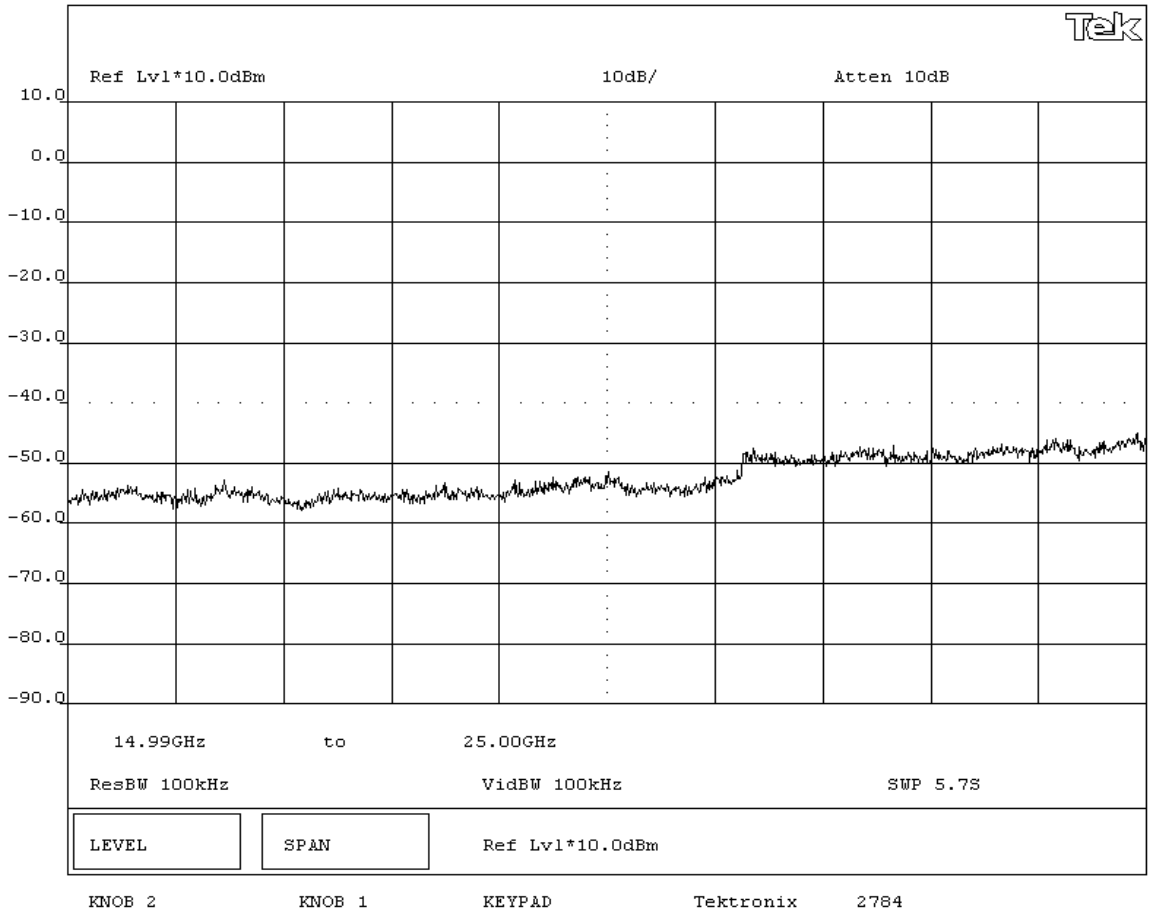
Pass

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - Mid Channel 15GHz-25GHz - 54 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

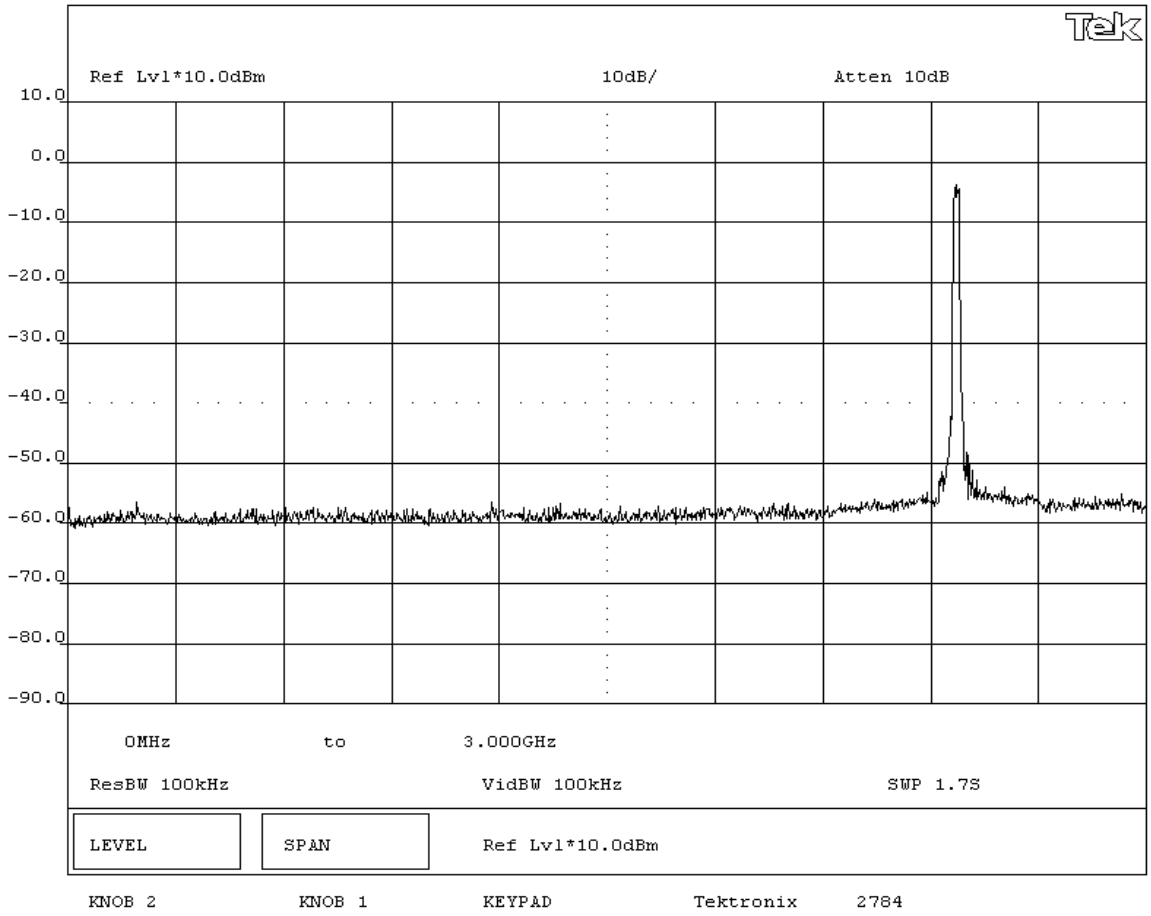
Pass

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - High Channel 0MHz-3GHz - 54 Mbit



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

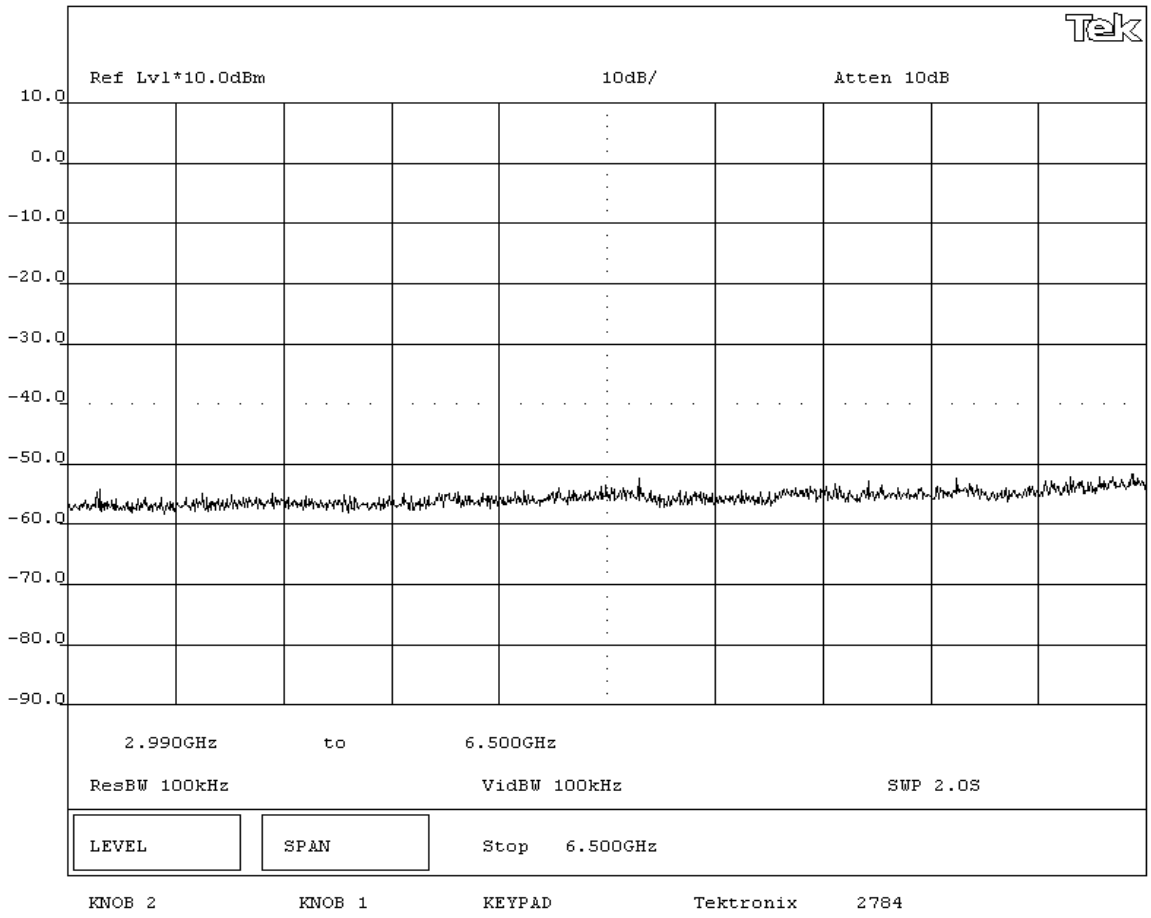
Pass

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - High Channel 3GHz-6.5GHz - 54 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

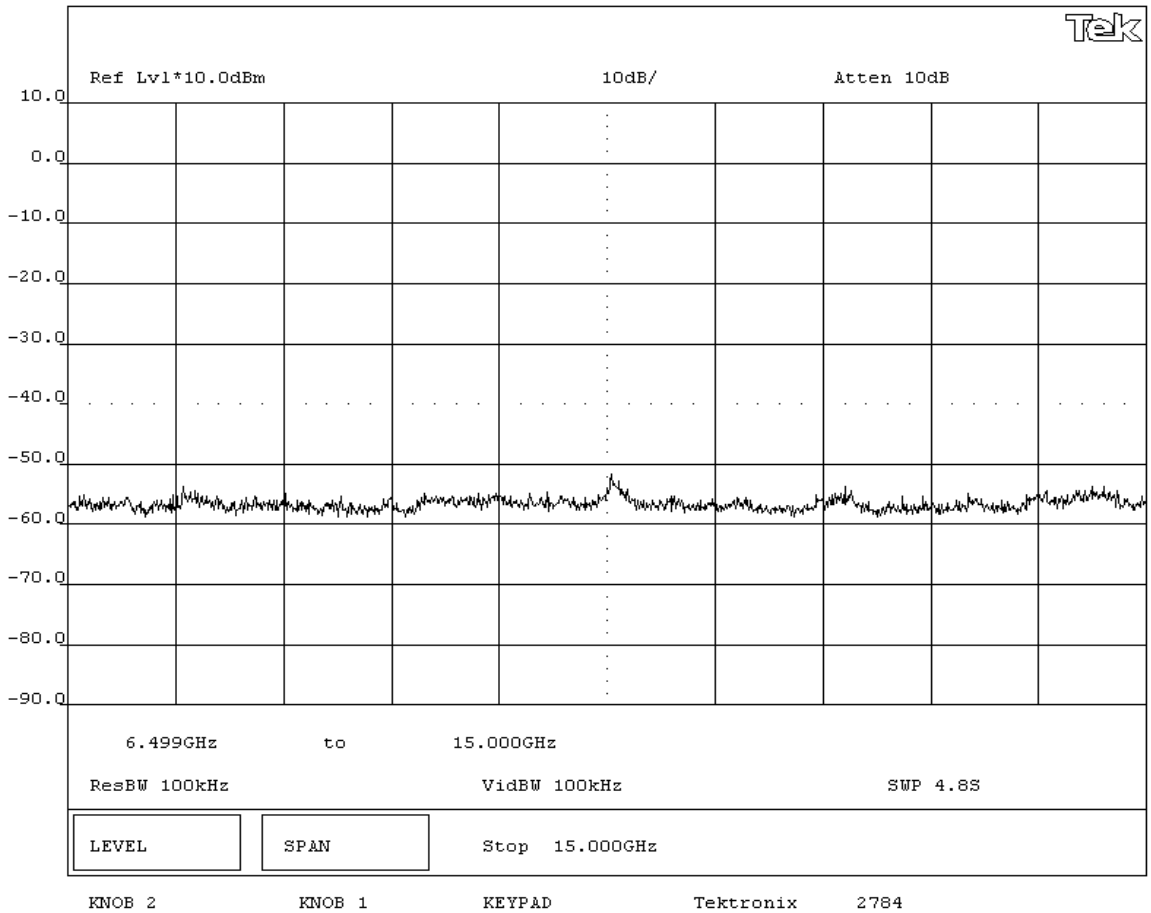
Pass

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - High Channel 6.5GHz-15GHz - 54 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/25/03
Customer:	INTERMEC Technologies			Temperature:	77 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	38% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum level of any spurious emission outside of the authorized band is 20 dB down from the fundamental

RESULTS

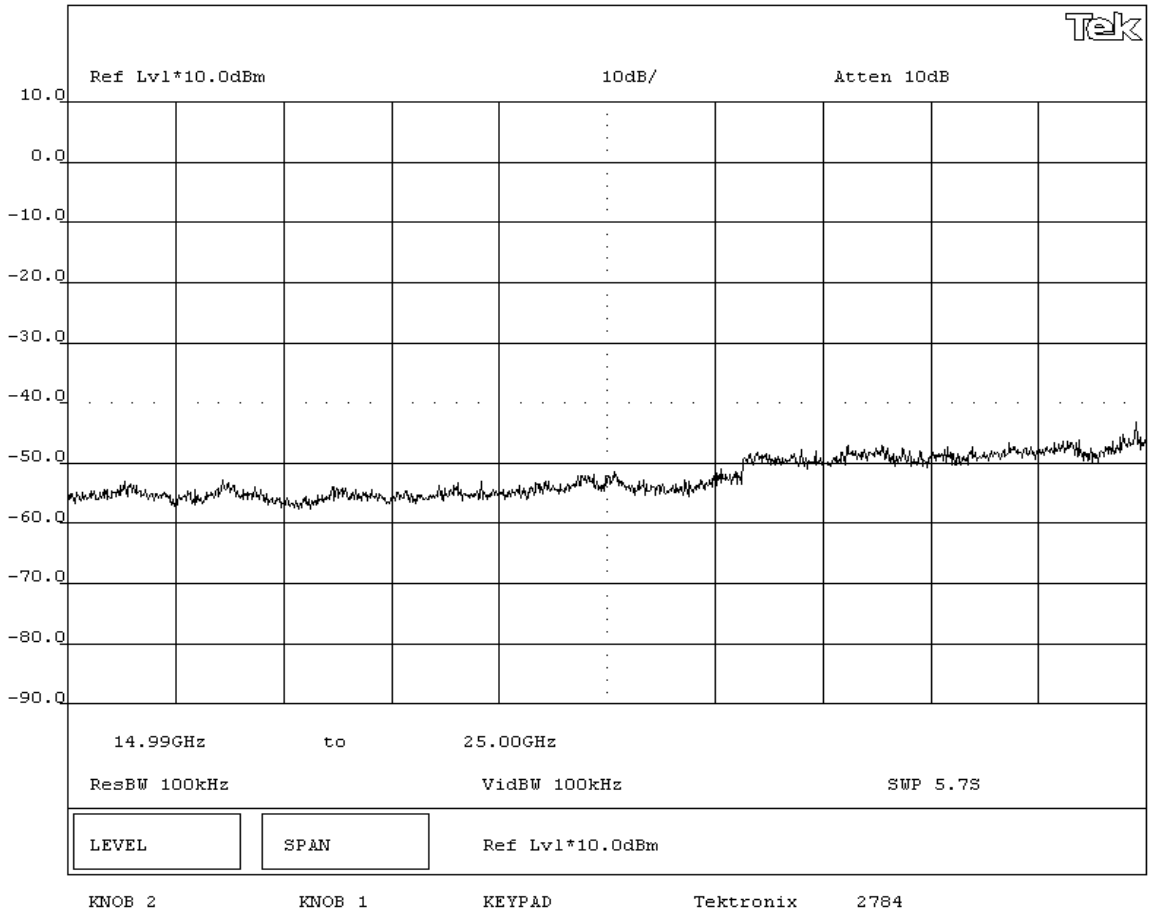
Pass

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Antenna Conducted Spurious Emissions - High Channel 15GHz-25GHz - 54 Mbit



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:
High
Mid
Low

Operating Modes Investigated:
802.11(b)
802.11(g)

Data Rates Investigated:
6 Mbit
11 Mbit
36 Mbit
54 Mbit

Output Power Setting(s) Investigated:
Maximum

Power Input Settings Investigated:
DC from host device

Software\Firmware Applied During Test			
Exercise software	FccTest.exe	Version	1/1/1601
Description			
The system was tested using special software developed to test all functions of the device during the test. The software allowed the selection of transmit channel and data rate. These were varied to produce the highest level of emissions. The OS of the host device was Ver. 0.00.00.0072			

EUT and Peripherals

Description	Manufacturer	Model/Part Number	Serial Number
Radio (EUT)	INTERMEC Technologies	802MIG2	none

Cables

None. No cables were attached to EUT

Measurement Equipment

Description	Manufacturer	Model	Identifier	Last Cal	Interval
Spectrum Analyzer	Tektronix	2784	AAO	02/26/2003	24 mo

Test Description

Requirement: Per 47 CFR 15.247(d), the peak power spectral density conducted from the antenna port of a digitally modulated transmitter must not be greater than +8 dBm in any 3 kHz band during any time interval of continuous transmission.

Configuration: The peak power spectral density measurements were measured with the EUT set to low, mid, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate using digital modulation. Per the procedure outlined in FCC 97-114, the spectrum analyzer was used as follows:

> The emission peak(s) were located and zoom in on within the passband. The resolution bandwidth was set to 3 kHz, the video bandwidth was set to greater than or equal to the resolution bandwidth. The sweep speed was set equal to the span divided by 3 kHz (sweep = (SPAN/3 kHz)). For example, given a span of 1.5 MHz, the sweep should be 1.5 x 106 ÷ 3 x 103 = 500 seconds. External attenuation was used and added to the reading. The following FCC procedure was used for modifying the power spectral density measurements:

"If the spectrum line spacing cannot be resolved on the available spectrum analyzer, the noise density function on most modern conventional spectrum analyzers will directly measure the noise power density normalized to a 1 Hz noise power bandwidth. Add 34.8 dB for correction to 3 kHz."

Completed by:

NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/26/03
Customer:	INTERMEC Technologies			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS | **AMPLITUDE**

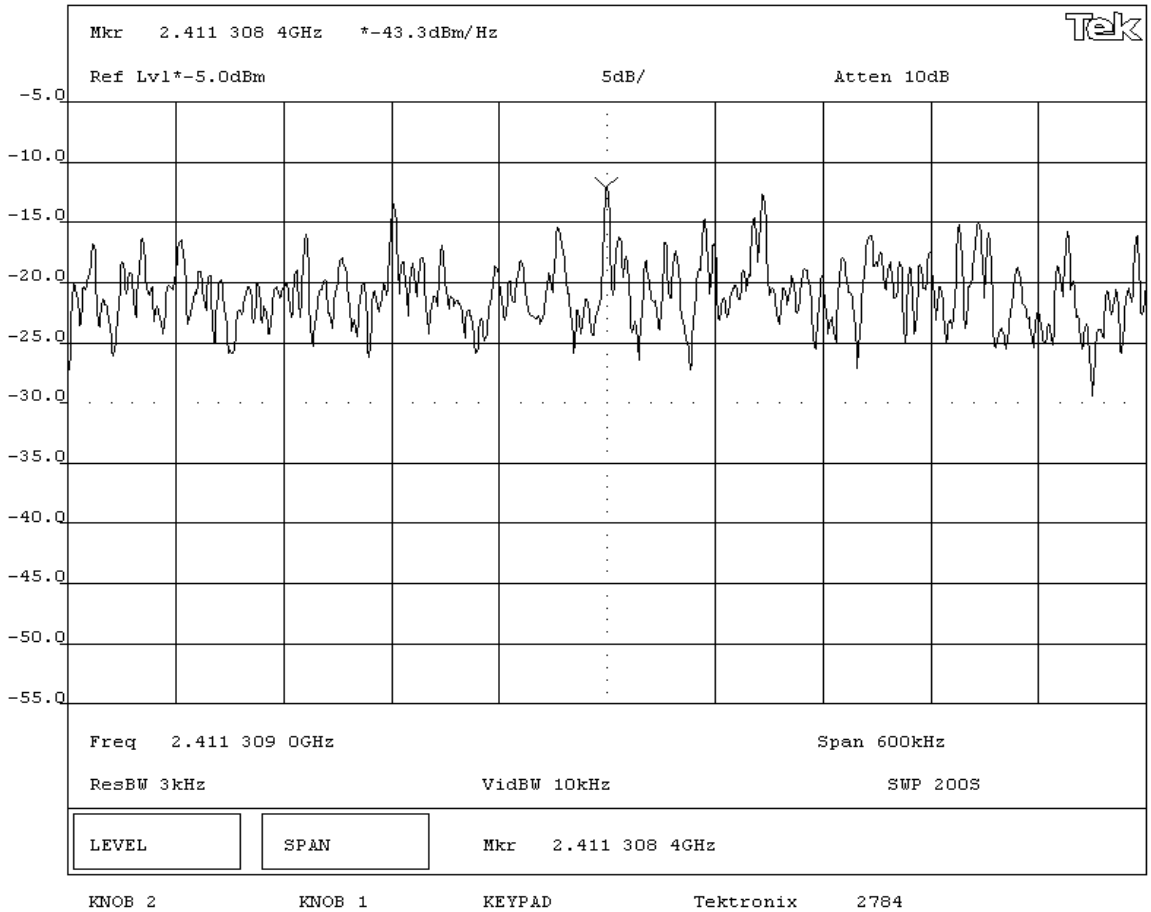
Pass | Power Spectral Density = -8.5 dBm / 3kHz

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Power Spectral Density - Low Channel



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/26/03
Customer:	INTERMEC Technologies			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(d)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.

Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.

Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

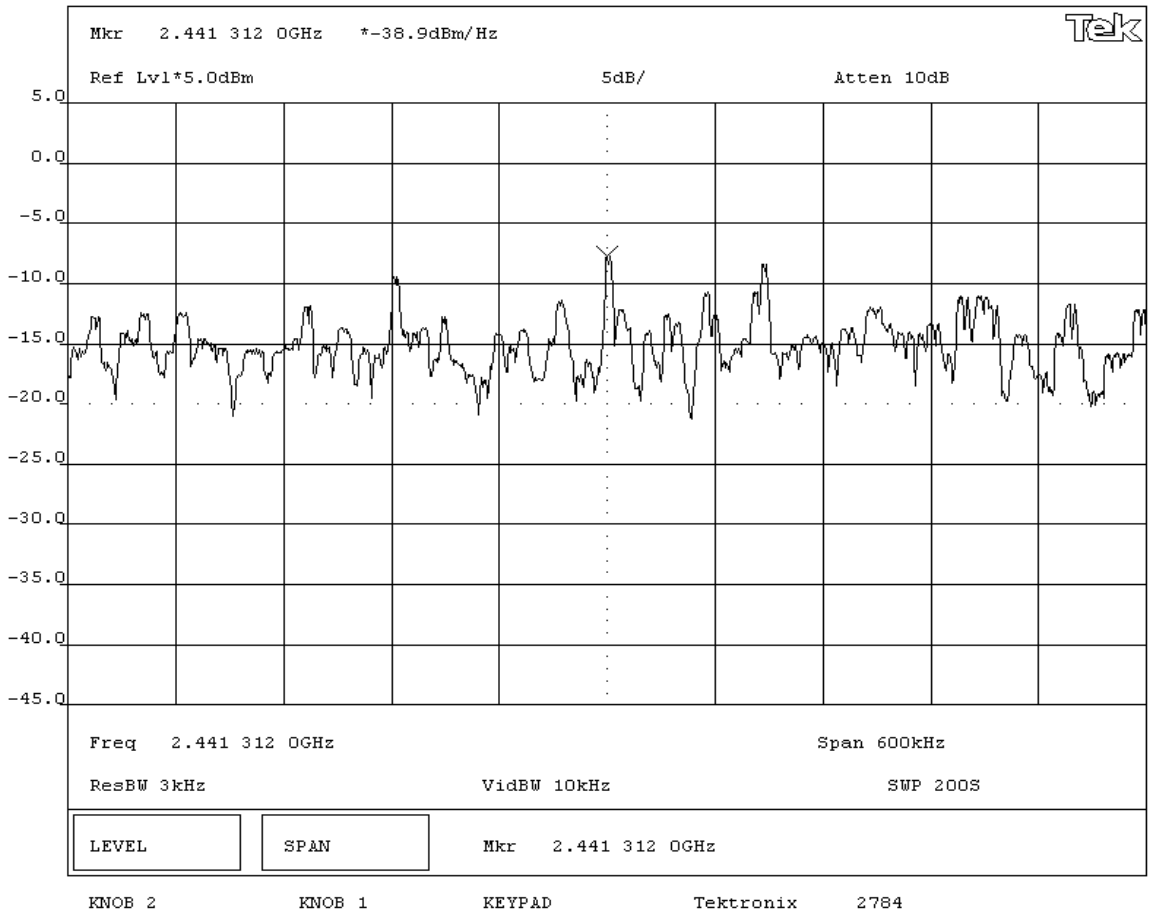
RESULTS	AMPLITUDE
Pass	Power Spectral Density = -4.1 dBm / 3kHz

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Power Spectral Density - Mid Channel



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/26/03
Customer:	INTERMEC Technologies			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at maximum data rate, 802.11(b) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

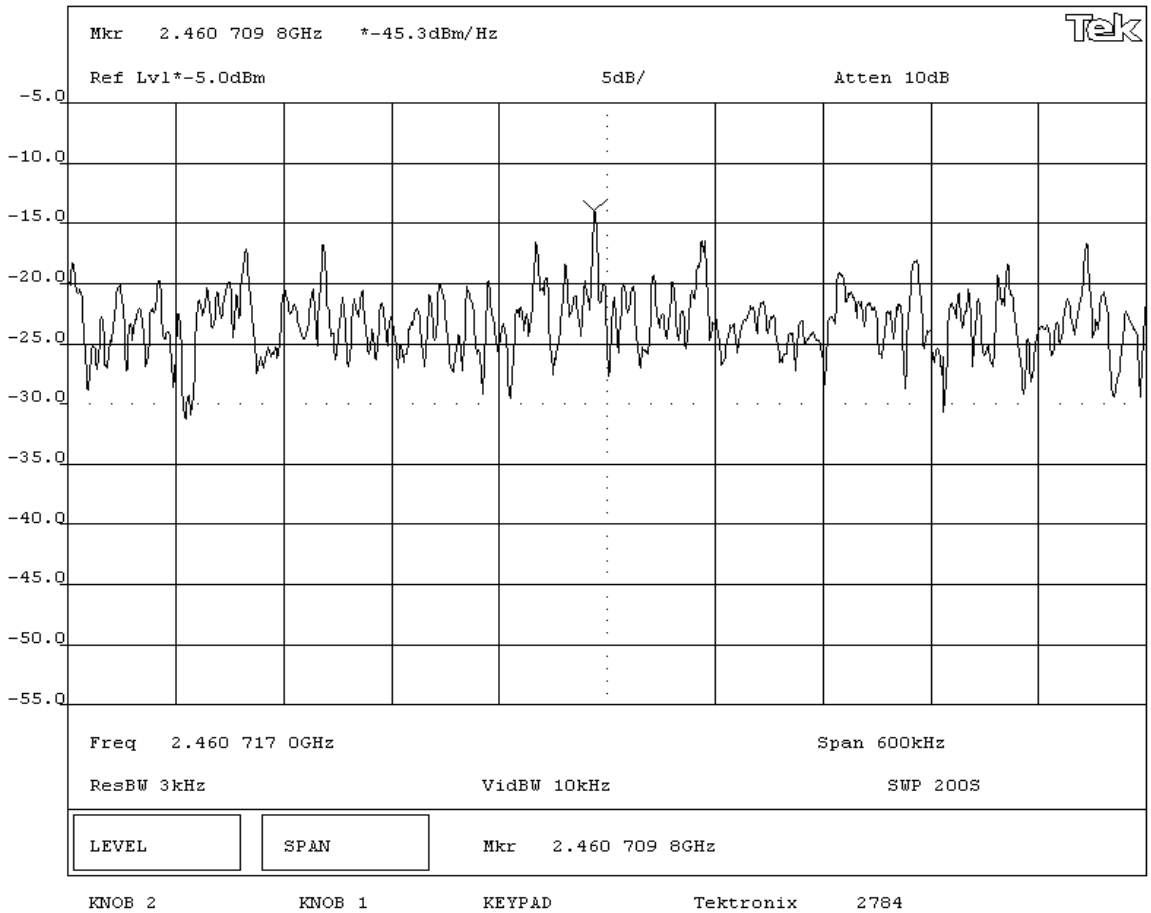
RESULTS	AMPLITUDE
Pass	Power Spectral Density = -10.5 dBm / 3kHz

SIGNATURE

Tested By: A.J. U. Kiemel

DESCRIPTION OF TEST

Power Spectral Density - High Channel



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/26/03
Customer:	INTERMEC Technologies			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(d)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.

Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.

Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

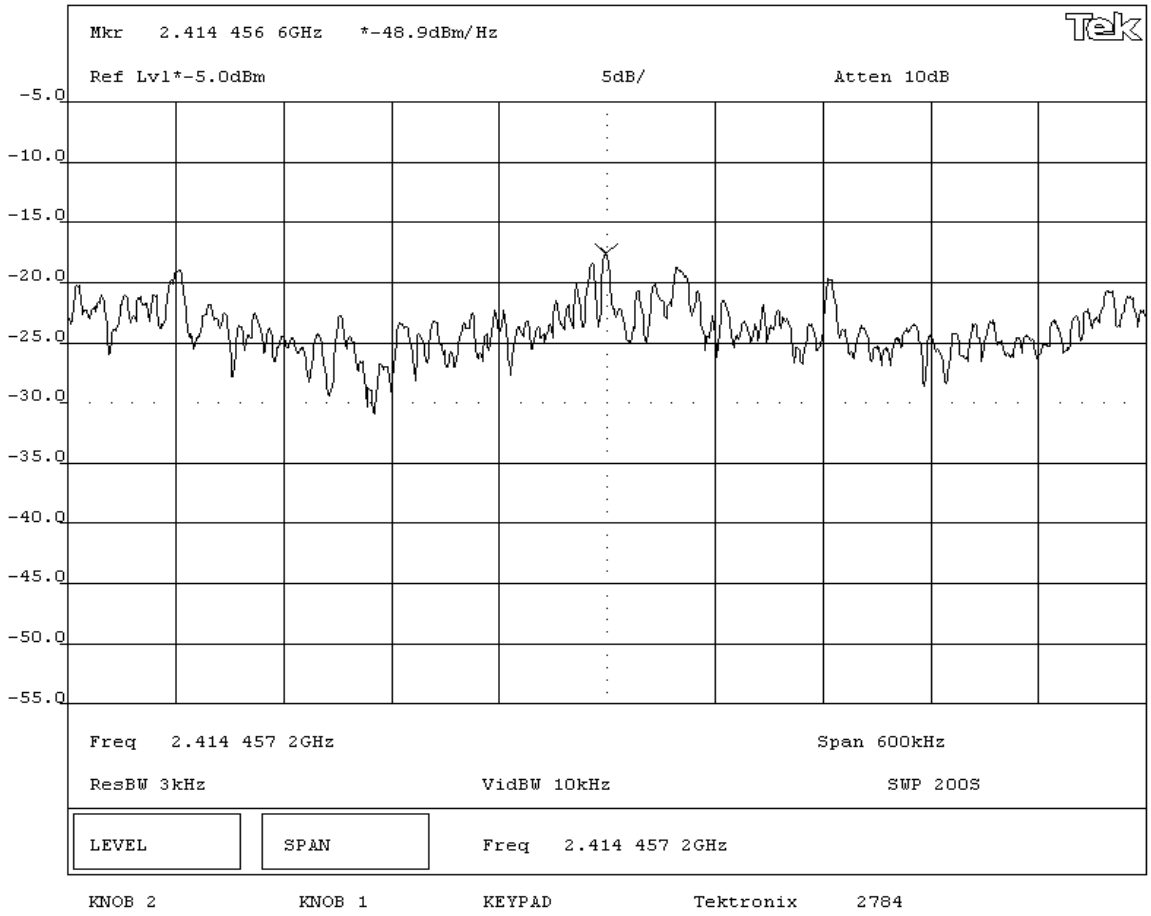
RESULTS	AMPLITUDE
Pass	Power Spectral Density = -14.1 dBm / 3kHz

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Power Spectral Density - Low Channel - 6 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/26/03
Customer:	INTERMEC Technologies			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

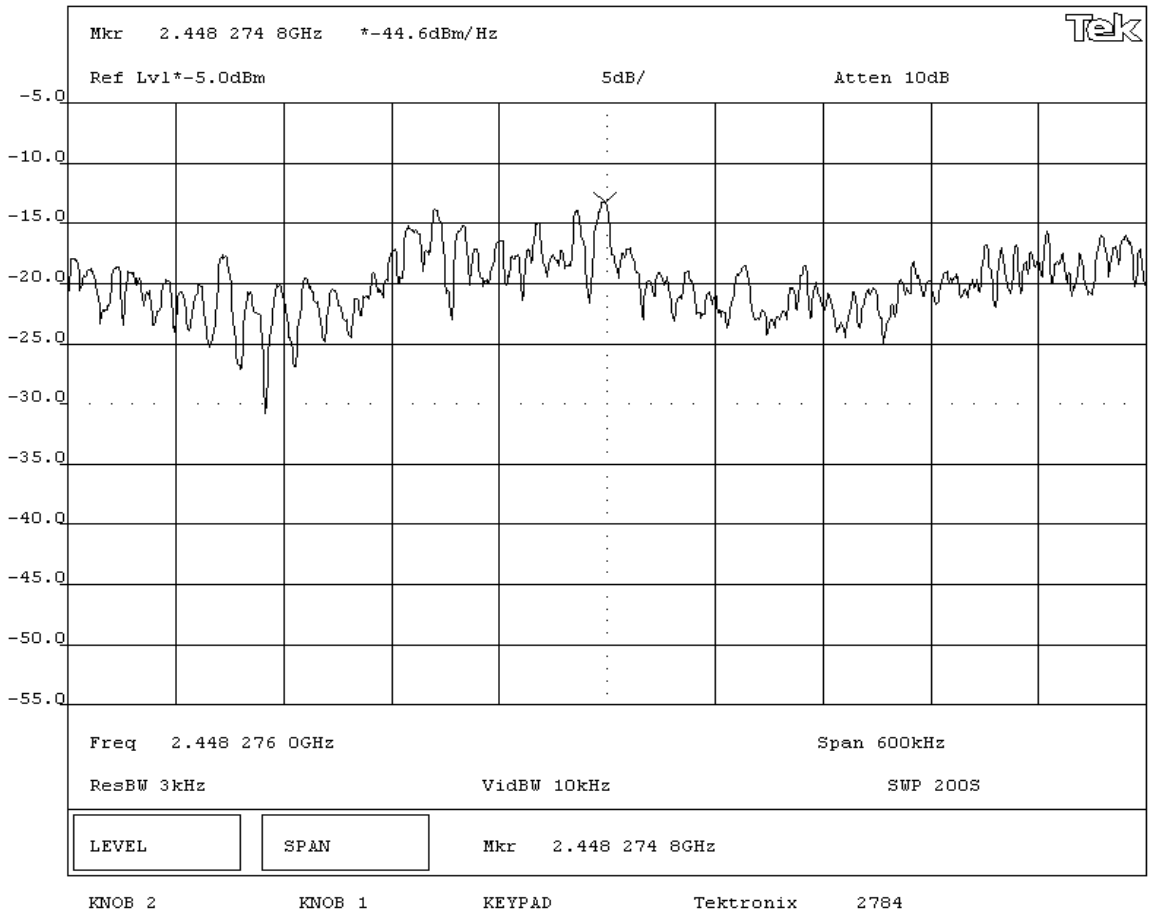
RESULTS	AMPLITUDE
Pass	Power Spectral Density = -9.8 dBm / 3kHz

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Power Spectral Density - Mid Channel - 6 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/26/03
Customer:	INTERMEC Technologies			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.

Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.

Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

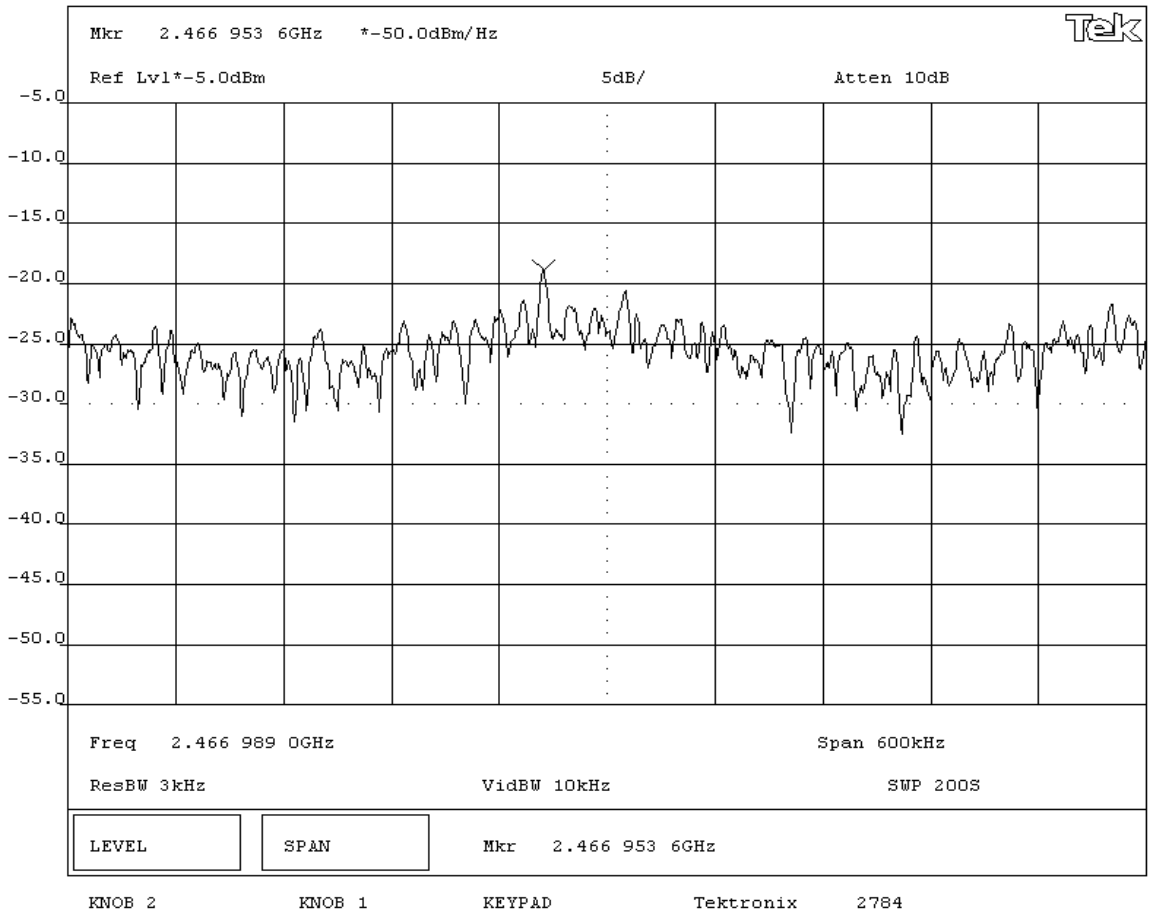
RESULTS	AMPLITUDE
Pass	Power Spectral Density = -15.2 dBm / 3kHz

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Power Spectral Density - High Channel - 6 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/26/03
Customer:	INTERMEC Technologies			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.

Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.

Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS | **AMPLITUDE**

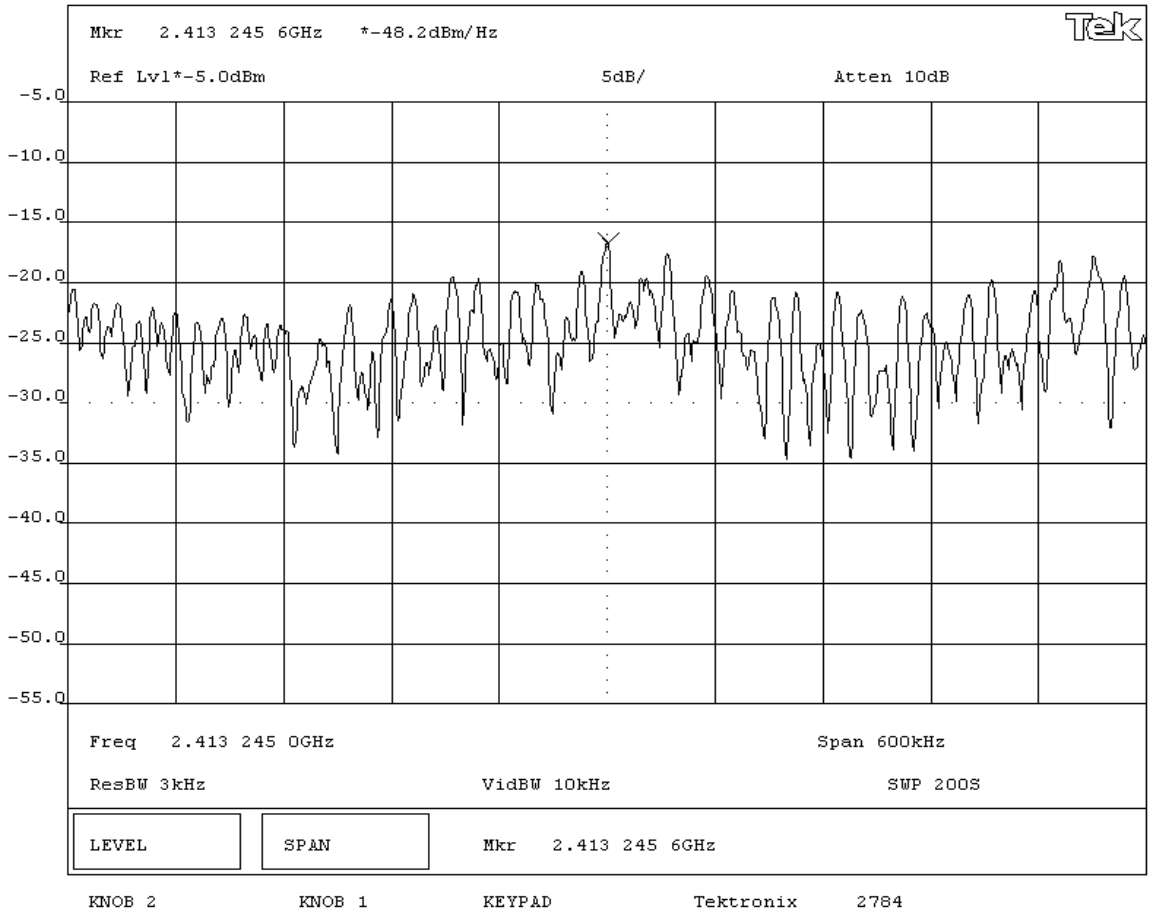
Pass | Power Spectral Density = -13.4 dBm / 3kHz

SIGNATURE

Tested By: A.J. Kiemel

DESCRIPTION OF TEST

Power Spectral Density - Low Channel - 36 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/26/03
Customer:	INTERMEC Technologies			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(d)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.

Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.

Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

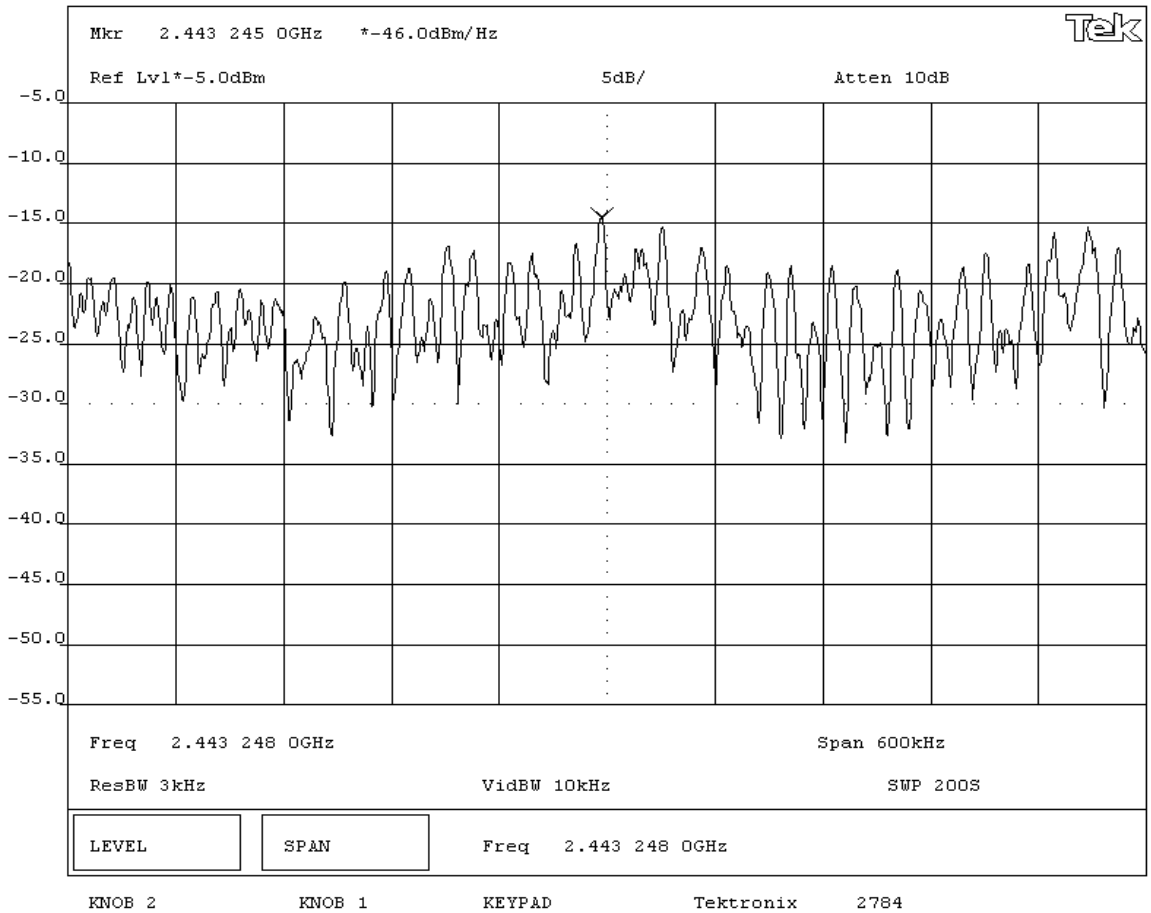
RESULTS	AMPLITUDE
Pass	Power Spectral Density = -11.2 dBm / 3kHz

SIGNATURE

Tested By: _____

DESCRIPTION OF TEST

Power Spectral Density - Mid Channel - 36 Mbit



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/26/03
Customer:	INTERMEC Technologies			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

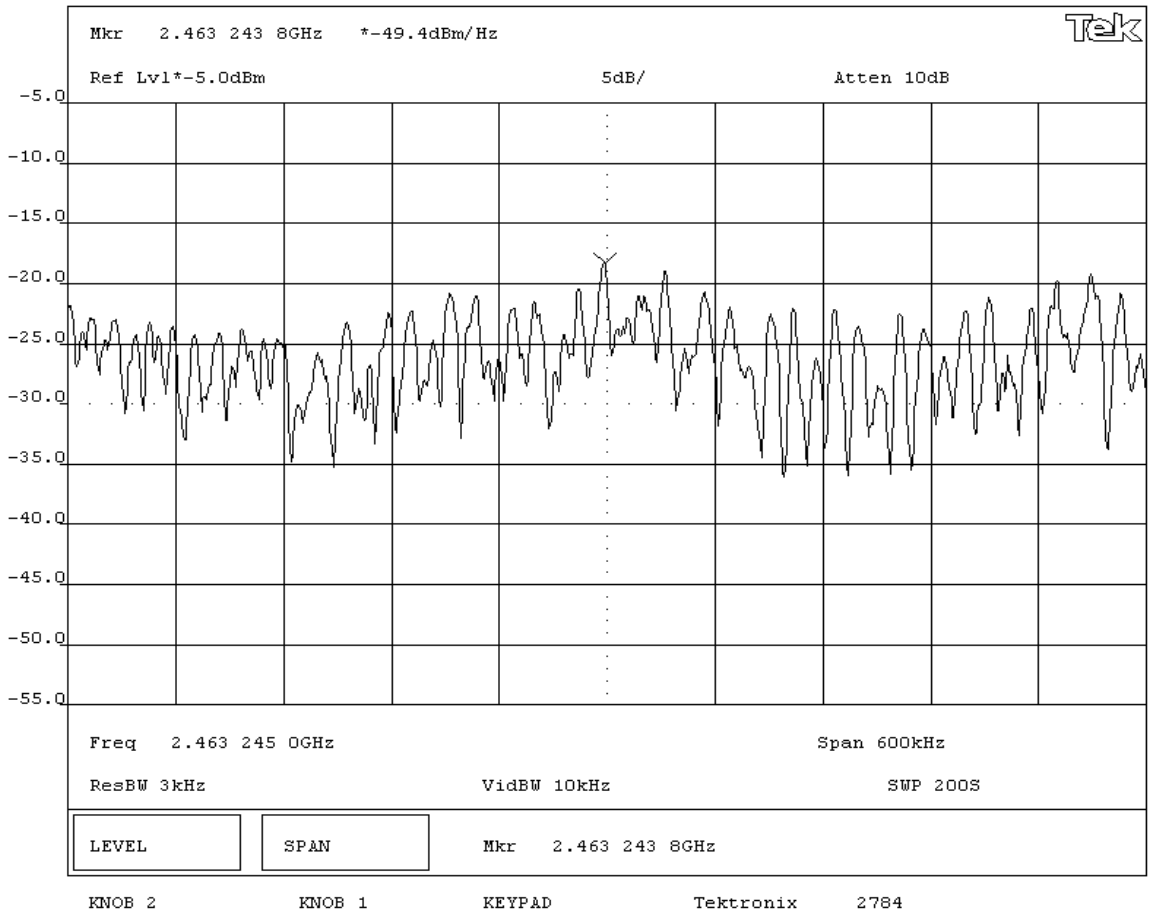
RESULTS	AMPLITUDE
Pass	Power Spectral Density = -14.6 dBm / 3kHz

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Power Spectral Density - High Channel - 36 Mbit



NORTHWEST EMC

EMISSIONS DATA SHEET

Rev BETA 01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/26/03
Customer:	INTERMEC Technologies			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(d)	Year: 2003	Method: FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

RESULTS | **AMPLITUDE**

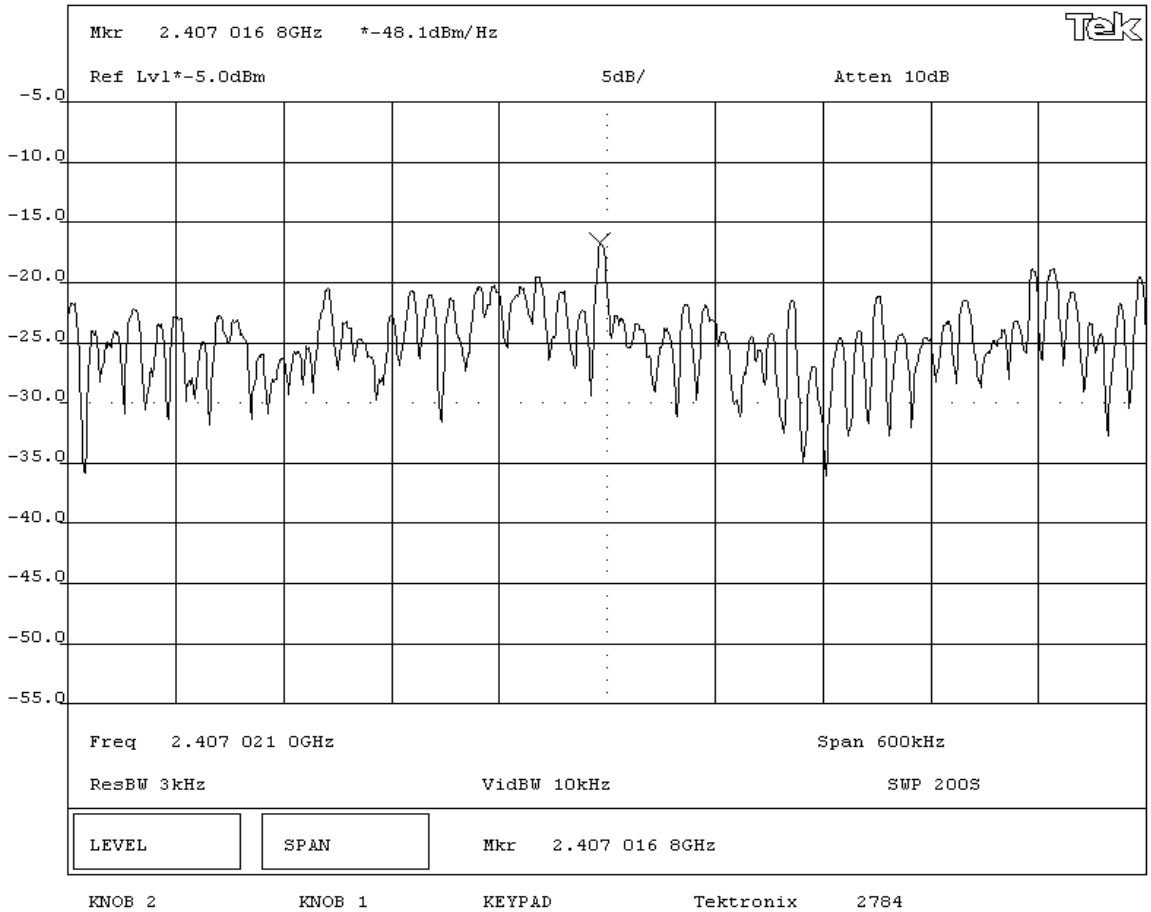
Pass | Power Spectral Density = -13.3 dBm / 3kHz

SIGNATURE

Tested By: A. J. U. Kiemel

DESCRIPTION OF TEST

Power Spectral Density - Low Channel - 54 Mbit



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/26/03
Customer:	INTERMEC Technologies			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(d)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

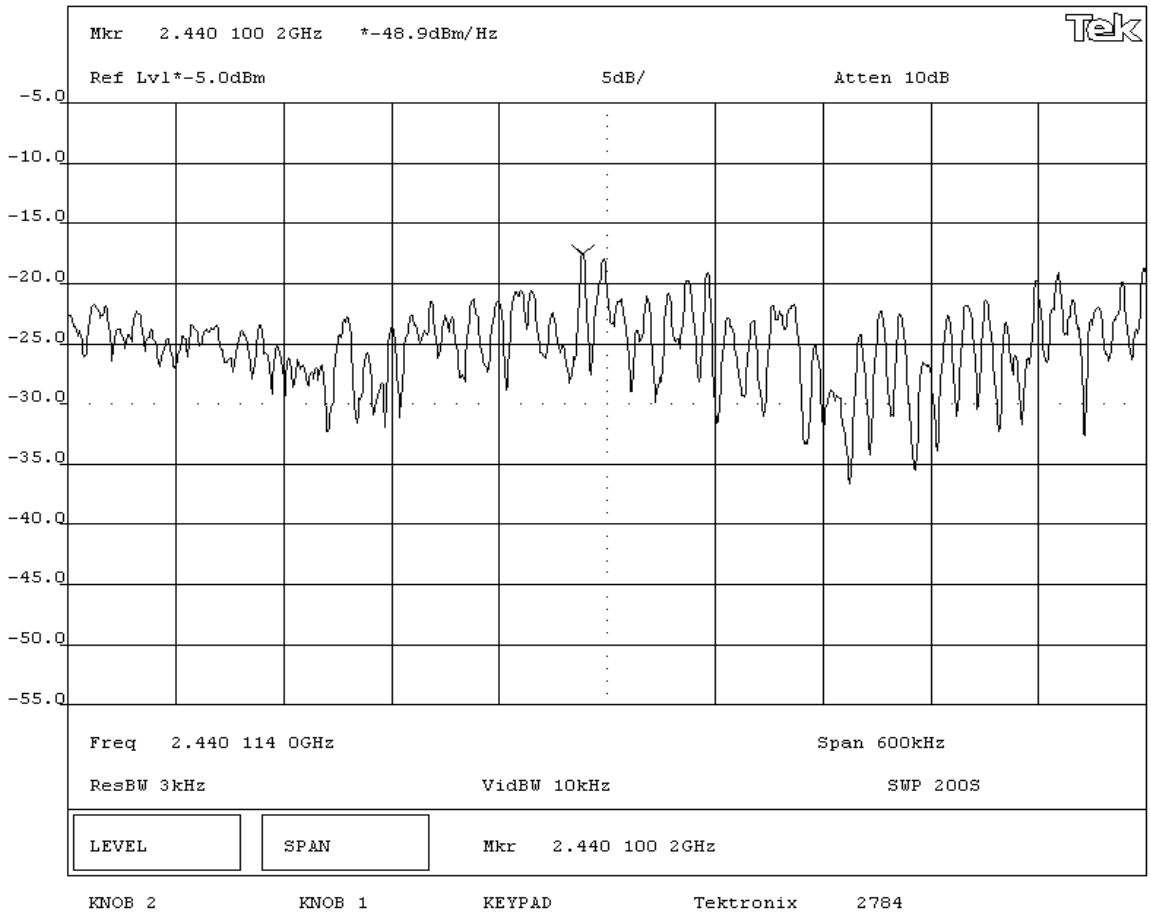
RESULTS	AMPLITUDE
Pass	Power Spectral Density = -14.1 dBm / 3kHz

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Power Spectral Density - Mid Channel - 54 Mbit



NORTHWEST
EMC

EMISSIONS DATA SHEET

Rev BETA
01/30/01

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	06/26/03
Customer:	INTERMEC Technologies			Temperature:	75 degrees F
Attendees:	C.D. White	Tested by:	Greg Kiemel	Humidity:	41% RH
Customer Ref. No.:	N/A	Power:	DC from Host Unit	Job Site:	EV06

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(d)	Year:	2003	Method:	FCC 97-114, ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

Meter reading on spectrum analyzer is internally compensated for cable loss and external attenuation.
Power Spectral Density per 3kHz bandwidth = Power Spectral Density per 1 Hz bandwidth + Bandwidth Correction Factor.
Bandwidth Correction Factor = 10*log(3 kHz / 1 Hz) = 34.8 dB

COMMENTS

EUT OPERATING MODES

Modulated by PRBS at indicated data rate, 802.11(g) modulation scheme

DEVIATIONS FROM TEST STANDARD

None

REQUIREMENTS

Maximum peak power spectral density conducted from a DSSS transmitter does not exceed 8 dBm in any 3 kHz band

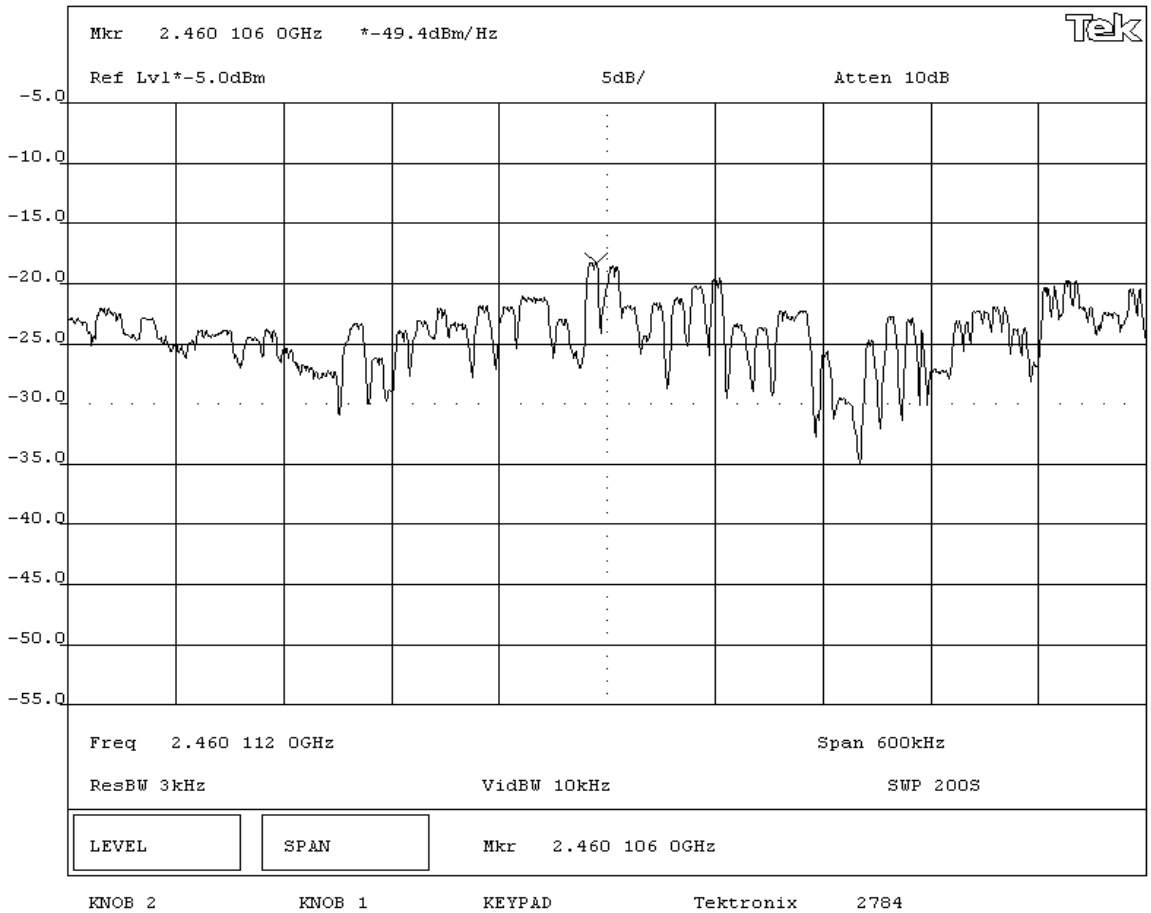
RESULTS	AMPLITUDE
Pass	Power Spectral Density = -14.6 dBm / 3kHz

SIGNATURE

Tested By: A.J. U. Kiel

DESCRIPTION OF TEST

Power Spectral Density - High Channel - 54 Mbit



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:
High (Channel 11)
Mid (Channel 6)
Low (Channel 1)

Operating Modes Investigated:
Stand alone 802.11(b) channels 1, 6, & 11
Stand alone 802.11(g) channels 1, 6, & 11
Simultaneous Transmission of 802.11(b) channel 11, with 802.11(b) channel 6
Simultaneous Transmission of 802.11(b) channel 11, with 802.11(g) channel 6
Simultaneous Transmission of 802.11(g) channel 11, with 802.11(g) channel 6
Simultaneous Transmission of 802.11(g) channel 11, with 802.11(b) channel 6
Simultaneous Transmission of 802.11(b) channel 2, with 802.11(a) channel 64
Simultaneous Transmission of 802.11(g) channel 2, with 802.11(a) channel 64
Simultaneous Transmission of 802.11(b) channel 8, with 802.11(a) channel 60
Simultaneous Transmission of 802.11(g) channel 8, with 802.11(a) channel 60
Simultaneous Transmission of 802.11(b) channel 2, with 802.11(a) channel 36
Simultaneous Transmission of 802.11(g) channel 2, with 802.11(a) channel 36
Simultaneous Transmission of 802.11(b) channel 11, with 802.11(a) channel 64
Simultaneous Transmission of 802.11(g) channel 11, with 802.11(a) channel 64
Simultaneous Transmission of 802.11(b) channel 11, with 802.11(a) channel 36
Simultaneous Transmission of 802.11(g) channel 11, with 802.11(a) channel 36

EUT Antennas Investigated:
Omni 066147
Omni 065349
Corner Reflector 071122
Flat Panel 067263
Yagi 063365

Antennas Investigated (attached only to 802.11(a) radio during Simultaneous Transmission):
Corner reflector 072762 (5250 to 5350 MHz)
Dipole 072664 (5150 to 5350 MHz)

Data Rates Investigated:
6Mbit
11Mbit

Output Power Setting(s) Investigated:
Maximum

Power Input Settings Investigated:
120 VAC, 60 Hz.
DC over e-net

Other Settings Investigated:
WA22 Access Point as host unit
WA21 Access Point as host unit
Simultaneous transmission with co-located radios in WA21 and WA22 Access Points

Frequency Range Investigated			
Start Frequency	30 MHz	Stop Frequency	40 GHz

Software\Firmware Applied During Test			
Exercise software	AP Monitor	Version	V5.55 March 5, 2003
Description			
Using Intermec's Access Point Configuration via HyperTerminal to control data rate(s) and channel(s) of 802MIG2 Radio.			

EUT and Peripherals

Description	Manufacturer	Model/Part Number	Serial Number
802.11(b)/(g) radio module (EUT)	INTERMEC Technologies	802MIG2	none
Access Point	INTERMEC Technologies	WA22	29300201290
Access Point	INTERMEC Technologies	WA21	17400301369
Omni Antenna	INTERMEC Technologies	066147	N/A
Omni Antenna	INTERMEC Technologies	065349	N/A
Corner Reflector	Mobile Mark	071122	N/A
Flat Panel	Xertex Technologies	067263	100805
Yagi	CushCraft Communication Antenna	063365	N/A
802.11(a) radio module, FCC ID: HN2WN-5MP01	INTERMEC Technologies	WN-5MP01	none

Remote Equipment Outside of Test Setup Boundary

Description	Manufacturer	Model/Part Number	Serial Number
Laptop	Compaq Computer Corporation	Presario 1610	5817BQB6D057
Power Adapter	Compaq Computer Corporation	2902	N/A
Power Bridge	INTERMEC Technologies	071578-001	S02516282523330

*Note : Equipment isolated from the EUT so as not to contribute to the measurement results are considered to be outside the test setup boundary.

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC Leads	PA	1.2	Yes	Laptop	Power Adapter
AC Power	No	1.8	No	Power Adapter	AC Mains
AC Power	No	1.8	No	Power Bridge	AC Mains
LAN	No	4.5	No	Access Point	Power Bridge
Serial	Yes	1.5	No	Laptop	Access Point
Coax (2x)	Yes	0.6	No	Access Point	Antenna
AC Power	No	2.0	No	Access Point (WA21 only)	AC Mains

PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.

Measurement Equipment

Description	Manufacturer	Model	Identifier	Last Cal	Interval
Antenna, Biconilog	EMCO	3141	AXE	12/31/2001	36 mo
Pre-Amplifier	Amplifier Research	LN1000A	APS	01/06/2003	12 mo
Spectrum Analyzer	Hewlett-Packard	8566B	AAL	01/07/2003	12 mo
Quasi-Peak Adapter	Hewlett-Packard	85650A	AQF	01/07/2003	12 mo
Antenna, Horn	EMCO	3115	AHC	08/12/2003	12 mo
Pre-Amplifier	Miteq	AMF-4D-005180-24-10P	APJ	01/06/2003	12 mo
High Pass Filter	RLC Electronics	F-100-4000-5-R (HPF>4GHz up to	HFF	05/01/2003	12 mo
Pre-Amplifier	Miteq	AMF-4D-005180-24-10P	APC	10/08/2002	12 mo
Antenna, Horn	EMCO	3160-08	AHK	06/20/2003	12 mo
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	10/08/2002	12 mo
Antenna, Horn	EMCO	3160-09	AHG	10/08/2002	12 mo
Spectrum Analyzer	Tektronix	2784	AAO	02/26/2003	24 mo
5.25 GHz Notch Filter	K&L Microwave	8N50-5250/X200-0/0	HFK	08/14/2002	24 mo
Antenna, Horn	EMCO	3160-10	AHI	10/08/2002	12 mo
Pre-Amplifier	Miteq	JS4-26004000-40-8P	APV / AON	10/08/2002	12 mo

Test Description

Requirement: The field strength of any spurious emissions or modulation products that fall in a restricted band, as defined in 47 CFR 15.205, is measured. The peak level must comply with the limits specified in 47 CFR 15.35(b). The average level (taken with a 10Hz VBW) must comply with the limits specified in 15.209.

If the radio will be co-located, the following policy applies: (Reference the FCC / TCB Training Q & A, October 2002, Day 2, Question 7)

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

Configuration for Stand-alone Transmission: The highest gain of each type of antenna to be used with the EUT was tested. All the operating modes and channels listed on the previous pages were investigated with the EUT installed in both the WA21 and WA22 access points. The EUT was configured for the lowest, a middle, and the highest transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis, and adjusting the measurement antenna height and polarization (per ANSI C63.4:1992). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

Configuration for Simultaneous Transmission: The EUT (802.11(b)/(g) radio) will be used only in Intermec's WA21 or WA22 access points. Each access point can accommodate two radio modules. The EUT can be co-located with another identical radio, or with a 802.11(a) radio (FCC ID: HN2WN-5MP01). The radios can transmit simultaneously, but not on the same channel. Each radio transmits through its own antenna.

The minimum channel spacing between co-located 802.11(b)/(g) radios is 5 channels. Therefore, when investigating co-location of the EUT radio with itself, only simultaneous transmission on channels 11 and 6 were investigated since this has the greatest interference risk in the 2483.5 – 2500 MHz restricted band, and this channel combination also produces the most harmonics that fall into restricted bands. The frequency range from 30 MHz to 26.5 GHz was investigated.

All possible combinations of harmonic emissions from the EUT radio and the 802.11(a) radio were compared numerically. It was determined that there were no possible coincidental harmonics below 26.5 GHz. The frequency range from 26. 5 GHz to 40 GHz was investigated for channel combinations that would produce coincidental harmonics that fall into restricted bands. Compliance with the restricted bands at 2483.5 – 2500 MHz, 4500 – 5150 MHz, and 5350 – 5460 MHz was also measured.

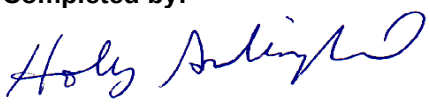
All the radios were configured for simultaneous transmission at the channels specified in the previous pages. The highest gain antennas to be used with the EUT were tested. The spectrum was scanned throughout the specified range with the EUT installed in both the WA21 and WA22 access points. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axes, and adjusting the measurement antenna

height and polarization (per ANSI C63.4:1992). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

Bandwidths Used for Measurements

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 – 0.15	1.0	0.2	0.2
0.15 – 30.0	10.0	9.0	9.0
30.0 – 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0
Measurements were made using the bandwidths and detectors specified. No video filter was used.			

Completed by:



NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/24/03
Customer:	INTERMEC Technologies			Temperature:	77
Attendees:				Humidity:	37%
Cust. Ref. No.:				Barometric Pressure	29.93
Tested by:	Holly Ashkannejhad	Power:	DC over E-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(b), See comments for Channel, Stand alone.

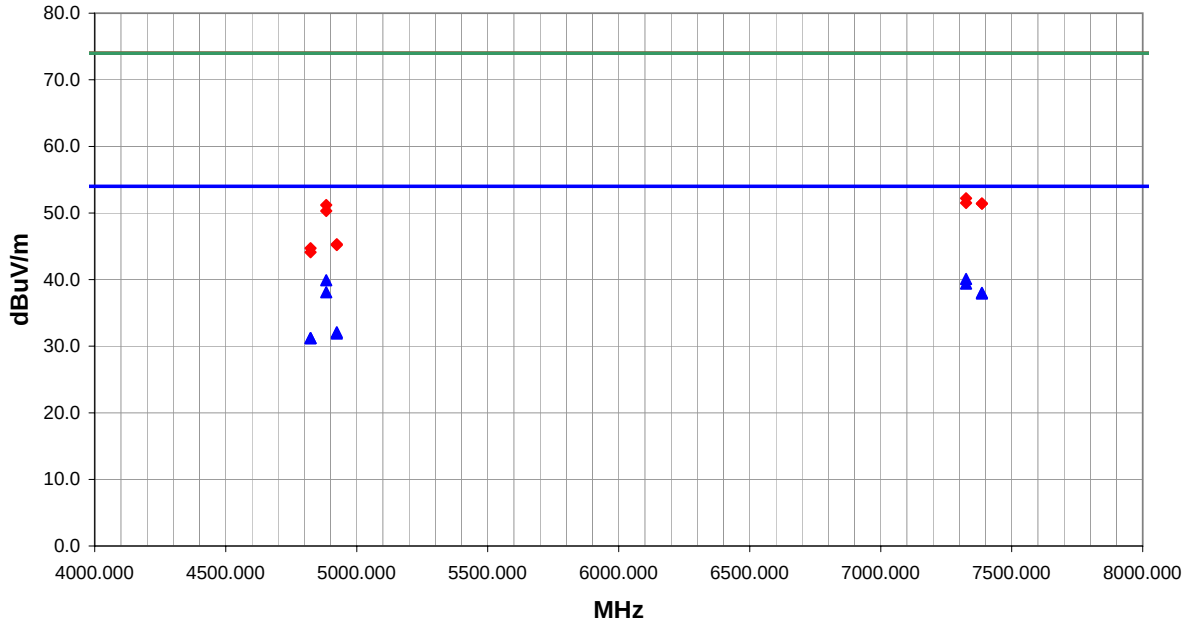
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	2

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
7326.000	29.1	11.0	44.0	1.0	3.0	0.0	H-Horn	AV	0.0	40.1	54.0	-13.9	Mid Channel
4883.949	33.7	6.2	43.0	1.1	3.0	0.0	H-Horn	AV	0.0	39.9	54.0	-14.1	Mid Channel
7326.000	28.4	11.0	76.0	1.5	3.0	0.0	V-Horn	AV	0.0	39.4	54.0	-14.6	Mid Channel
4883.949	31.9	6.2	8.0	2.0	3.0	0.0	V-Horn	AV	0.0	38.1	54.0	-15.9	Mid Channel
7386.000	26.8	11.2	69.0	1.2	3.0	0.0	V-Horn	AV	0.0	38.0	54.0	-16.0	High Channel
7386.000	26.7	11.2	172.0	1.3	3.0	0.0	H-Horn	AV	0.0	37.9	54.0	-16.1	High Channel
4923.995	25.9	6.2	29.0	1.2	3.0	0.0	V-Horn	AV	0.0	32.1	54.0	-21.9	High Channel
4923.995	25.7	6.2	54.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.9	54.0	-22.1	High Channel
4824.000	25.3	5.9	81.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.2	54.0	-22.8	Low channel
4824.000	25.3	5.9	277.0	1.2	3.0	0.0	V-Horn	AV	0.0	31.2	54.0	-22.8	Low channel
7326.000	41.2	11.0	44.0	1.0	3.0	0.0	H-Horn	PK	0.0	52.2	74.0	-21.8	Mid Channel
7326.000	40.5	11.0	76.0	1.5	3.0	0.0	V-Horn	PK	0.0	51.5	74.0	-22.5	Mid Channel
7386.000	40.2	11.2	69.0	1.2	3.0	0.0	V-Horn	PK	0.0	51.4	74.0	-22.6	High Channel
7386.000	40.2	11.2	171.0	1.3	3.0	0.0	H-Horn	PK	0.0	51.4	74.0	-22.6	High Channel
4883.949	45.0	6.2	43.0	1.1	3.0	0.0	H-Horn	PK	0.0	51.2	74.0	-22.8	Mid Channel
4883.949	44.1	6.2	8.0	2.0	3.0	0.0	V-Horn	PK	0.0	50.3	74.0	-23.7	Mid Channel
4923.995	39.1	6.2	29.0	1.2	3.0	0.0	V-Horn	PK	0.0	45.3	74.0	-28.7	High Channel
4923.995	39.0	6.2	54.0	1.3	3.0	0.0	H-Horn	PK	0.0	45.2	74.0	-28.8	High Channel
4824.000	38.8	5.9	81.0	1.3	3.0	0.0	H-Horn	PK	0.0	44.7	74.0	-29.3	Low channel
4824.000	38.2	5.9	277.0	1.2	3.0	0.0	V-Horn	PK	0.0	44.1	74.0	-29.9	Low channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/24/03
Customer:	INTERMEC Technologies			Temperature:	77
Attendees:				Humidity:	37%
Cust. Ref. No.:				Barometric Pressure	29.93
Tested by:	Holly Ashkannejhad	Power:	DC over E-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(g), See comments for Channel, Stand alone.

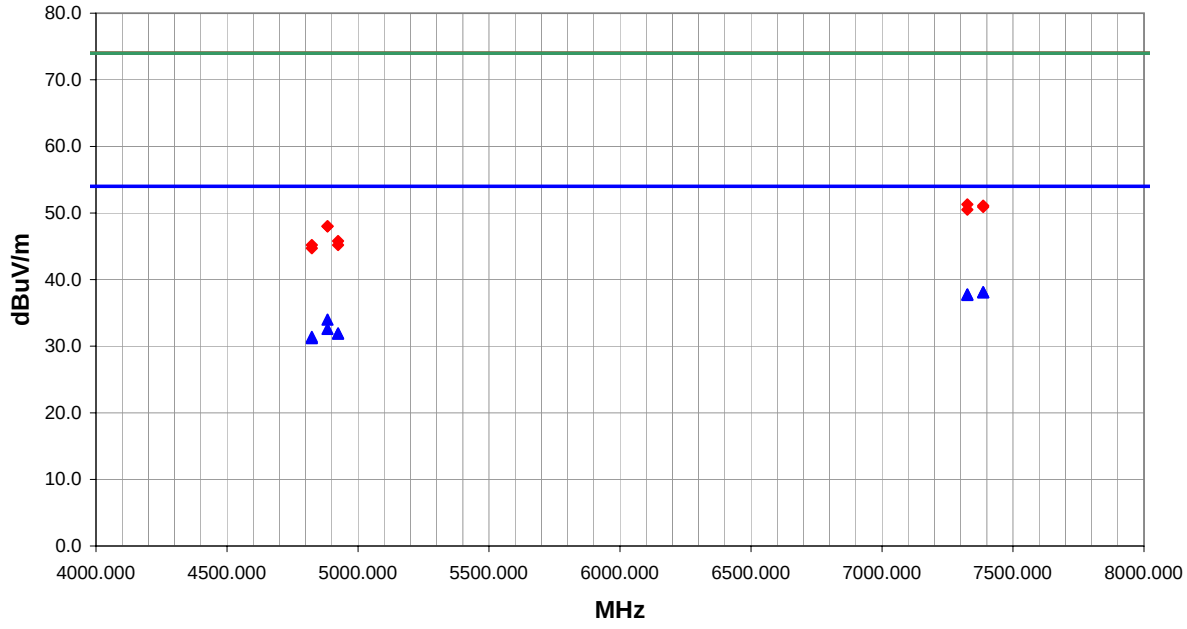
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	3

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
7386.000	26.9	11.2	182.0	1.3	3.0	0.0	H-Horn	AV	0.0	38.1	54.0	-15.9	High channel
7386.000	26.9	11.2	169.0	1.2	3.0	0.0	V-Horn	AV	0.0	38.1	54.0	-15.9	High channel
7326.000	26.8	11.0	352.0	2.5	3.0	0.0	V-Horn	AV	0.0	37.8	54.0	-16.2	Mid channel
7326.000	26.7	11.0	126.0	1.3	3.0	0.0	H-Horn	AV	0.0	37.7	54.0	-16.3	Mid channel
4883.949	27.8	6.2	314.0	1.3	3.0	0.0	H-Horn	AV	0.0	34.0	54.0	-20.0	Mid channel
4883.949	26.4	6.2	314.0	1.3	3.0	0.0	V-Horn	AV	0.0	32.6	54.0	-21.4	Mid channel
4923.995	25.7	6.2	345.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.9	54.0	-22.1	High channel
4923.995	25.7	6.2	96.0	3.6	3.0	0.0	V-Horn	AV	0.0	31.9	54.0	-22.1	High channel
4824.000	25.5	5.9	78.0	1.2	3.0	0.0	V-Horn	AV	0.0	31.4	54.0	-22.6	Low channel
4824.000	25.3	5.9	0.0	2.6	3.0	0.0	H-Horn	AV	0.0	31.2	54.0	-22.8	Low channel
7326.000	40.3	11.0	352.0	2.5	3.0	0.0	V-Horn	PK	0.0	51.3	74.0	-22.7	Mid channel
7386.000	39.9	11.2	182.0	1.3	3.0	0.0	H-Horn	PK	0.0	51.1	74.0	-22.9	High channel
7386.000	39.7	11.2	169.0	1.2	3.0	0.0	V-Horn	PK	0.0	50.9	74.0	-23.1	High channel
7326.000	39.5	11.0	126.0	1.3	3.0	0.0	H-Horn	PK	0.0	50.5	74.0	-23.5	Mid channel
4883.949	41.8	6.2	314.0	1.3	3.0	0.0	H-Horn	PK	0.0	48.0	74.0	-26.0	Mid channel
4883.949	41.8	6.2	314.0	1.3	3.0	0.0	V-Horn	PK	0.0	48.0	74.0	-26.0	Mid channel
4923.995	39.6	6.2	96.0	3.6	3.0	0.0	V-Horn	PK	0.0	45.8	74.0	-28.2	High channel
4923.995	39.0	6.2	345.0	1.3	3.0	0.0	H-Horn	PK	0.0	45.2	74.0	-28.8	High channel
4824.000	39.3	5.9	78.0	1.2	3.0	0.0	V-Horn	PK	0.0	45.2	74.0	-28.8	Low channel
4824.000	38.8	5.9	0.0	2.6	3.0	0.0	H-Horn	PK	0.0	44.7	74.0	-29.3	Low channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/24/03
Customer:	INTERMEC Technologies			Temperature:	77
Attendees:				Humidity:	37%
Cust. Ref. No.:				Barometric Pressure	29.93
Tested by:	Holly Ashkannejhad	Power:	DC over E-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(g), High Channel, Stand alone.

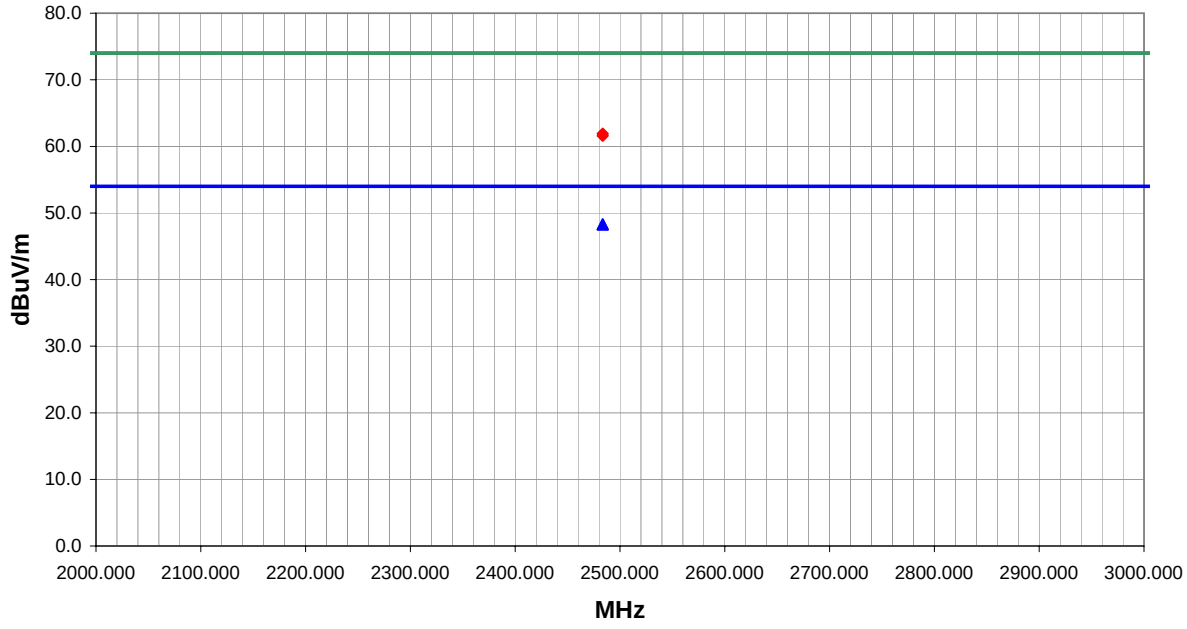
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	4

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.500	27.3	1.0	254.0	2.6	3.0	20.0	H-Horn	AV	0.0	48.3	54.0	-5.7	High channel
2483.500	27.3	1.0	314.0	1.2	3.0	20.0	V-Horn	AV	0.0	48.3	54.0	-5.7	High channel
2483.500	40.9	1.0	314.0	1.2	3.0	20.0	V-Horn	PK	0.0	61.9	74.0	-12.1	High channel
2483.500	40.6	1.0	254.0	2.6	3.0	20.0	H-Horn	PK	0.0	61.6	74.0	-12.4	High channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/24/03
Customer:	INTERMEC Technologies			Temperature:	77
Attendees:				Humidity:	37%
Cust. Ref. No.:				Barometric Pressure	29.93
Tested by:	Holly Ashkannejhad	Power:	DC over E-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(b), High Channel, Stand alone.

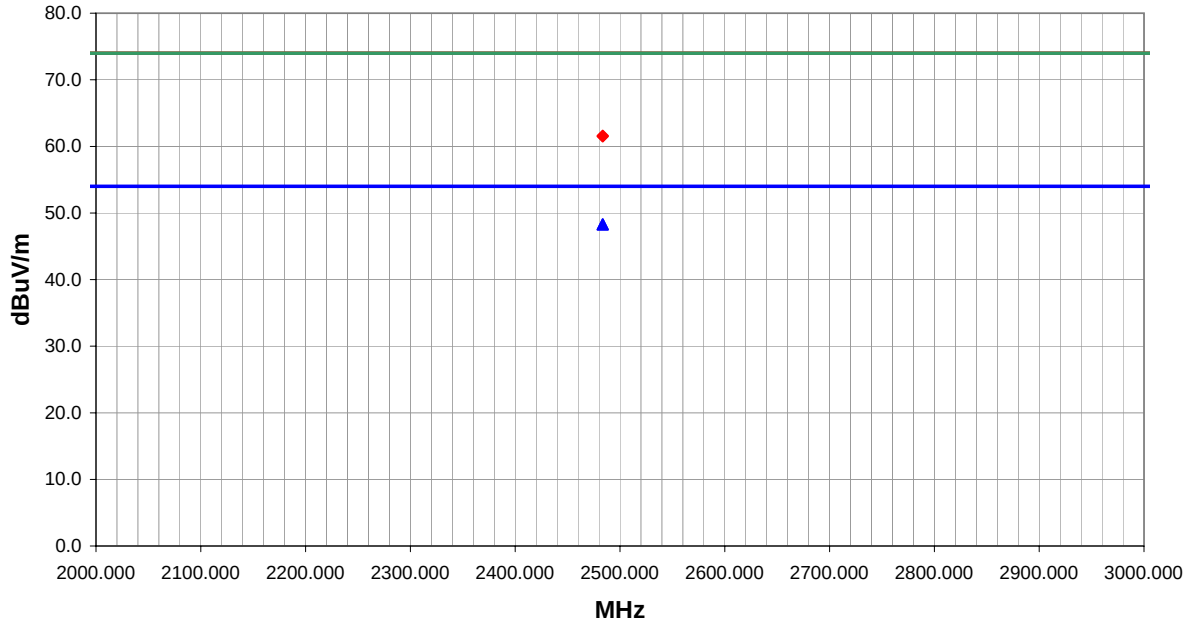
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	5

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.500	27.3	1.0	213.0	1.3	3.0	20.0	H-Horn	AV	0.0	48.3	54.0	-5.7	High channel
2483.500	27.3	1.0	167.0	2.6	3.0	20.0	V-Horn	AV	0.0	48.3	54.0	-5.7	High channel
2483.500	40.6	1.0	213.0	1.3	3.0	20.0	H-Horn	PK	0.0	61.6	74.0	-12.4	High channel
2483.500	40.5	1.0	167.0	2.6	3.0	20.0	V-Horn	PK	0.0	61.5	74.0	-12.5	High channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/24/03
Customer:	INTERMEC Technologies			Temperature:	77
Attendees:				Humidity:	37%
Cust. Ref. No.:				Barometric Pressure	29.93
Tested by:	Holly Ashkannejhad	Power:	DC over E-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 067263 Flat Panel.

EUT OPERATING MODES

802.11(b), High Channel, Stand alone.

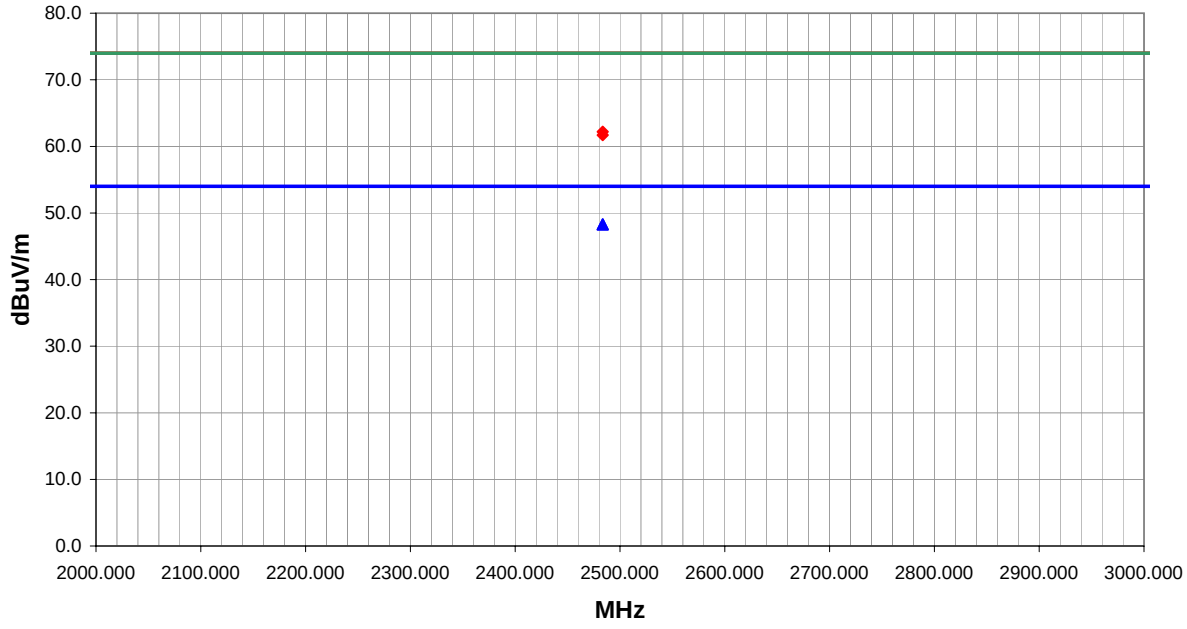
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	6

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.500	27.3	1.0	153.0	1.3	3.0	20.0	H-Horn	AV	0.0	48.3	54.0	-5.7	High channel
2483.500	27.3	1.0	98.0	1.2	3.0	20.0	V-Horn	AV	0.0	48.3	54.0	-5.7	High channel
2483.500	41.2	1.0	98.0	1.2	3.0	20.0	V-Horn	PK	0.0	62.2	74.0	-11.8	High channel
2483.500	40.7	1.0	153.0	1.3	3.0	20.0	H-Horn	PK	0.0	61.7	74.0	-12.3	High channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/24/03
Customer:	INTERMEC Technologies			Temperature:	77
Attendees:				Humidity:	37%
Cust. Ref. No.:				Barometric Pressure	29.93
Tested by:	Holly Ashkannejhad	Power:	DC over E-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 067263 Flat Panel.

EUT OPERATING MODES

802.11(g), High Channel, Stand alone.

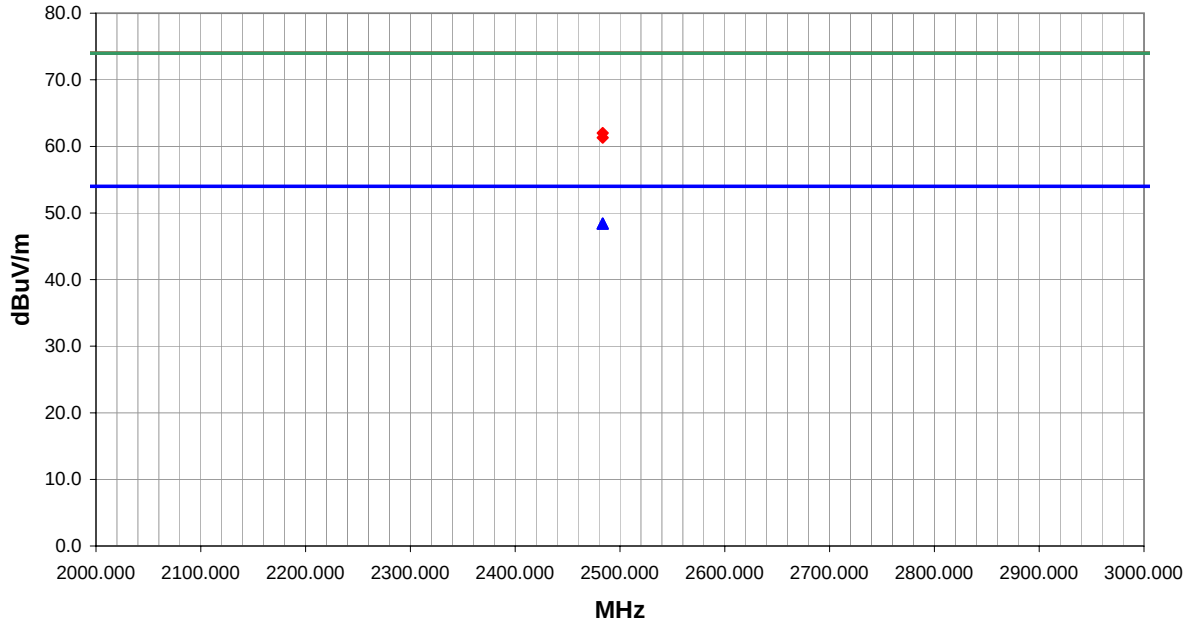
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	7

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.500	27.4	1.0	273.0	1.3	3.0	20.0	H-Horn	AV	0.0	48.4	54.0	-5.6	High channel
2483.500	27.4	1.0	149.0	1.2	3.0	20.0	V-Horn	AV	0.0	48.4	54.0	-5.6	High channel
2483.500	41.0	1.0	273.0	1.3	3.0	20.0	H-Horn	PK	0.0	62.0	74.0	-12.0	High channel
2483.500	40.3	1.0	149.0	1.2	3.0	20.0	V-Horn	PK	0.0	61.3	74.0	-12.7	High channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio	Work Order:	INMC0088
Serial Number:	none	Date:	07/24/03
Customer:	INTERMEC Technologies	Temperature:	77
Attendees:		Humidity:	37%
Cust. Ref. No.:		Barometric Pressure	29.93
Tested by:	Holly Ashkannejhad	Power: DC over E-net	Job Site: EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 067263 Flat Panel.

EUT OPERATING MODES

802.11(g), See comments for channel, Stand alone.

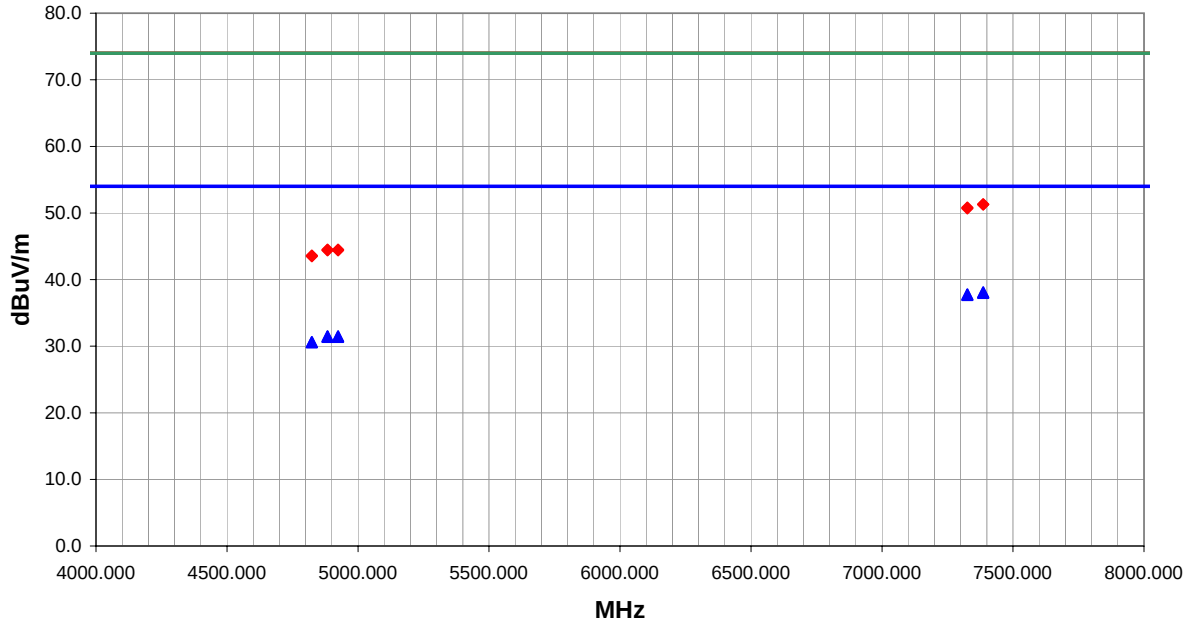
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	8

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
7386.000	26.9	11.2	35.0	1.2	3.0	0.0	V-Horn	AV	0.0	38.1	54.0	-15.9	High channel
7386.000	26.8	11.2	200.0	2.5	3.0	0.0	H-Horn	AV	0.0	38.0	54.0	-16.0	High channel
7326.000	26.8	11.0	306.0	1.2	3.0	0.0	V-Horn	AV	0.0	37.8	54.0	-16.2	Mid channel
7326.000	26.7	11.0	0.0	1.3	3.0	0.0	H-Horn	AV	0.0	37.7	54.0	-16.3	Mid channel
4923.995	25.3	6.2	240.0	1.2	3.0	0.0	V-Horn	AV	0.0	31.5	54.0	-22.5	High channel
4883.949	25.3	6.2	237.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.5	54.0	-22.5	Mid channel
4923.995	25.2	6.2	265.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.4	54.0	-22.6	High channel
4883.949	25.2	6.2	150.0	1.2	3.0	0.0	V-Horn	AV	0.0	31.4	54.0	-22.6	Mid channel
4824.000	24.7	5.9	203.0	1.3	3.0	0.0	H-Horn	AV	0.0	30.6	54.0	-23.4	Low channel
4824.000	24.7	5.9	61.0	1.2	3.0	0.0	V-Horn	AV	0.0	30.6	54.0	-23.4	Low channel
7386.000	40.1	11.2	35.0	1.2	3.0	0.0	V-Horn	PK	0.0	51.3	74.0	-22.7	High channel
7386.000	40.1	11.2	200.0	2.5	3.0	0.0	H-Horn	PK	0.0	51.3	74.0	-22.7	High channel
7326.000	39.8	11.0	306.0	1.2	3.0	0.0	V-Horn	PK	0.0	50.8	74.0	-23.2	Mid channel
7326.000	39.7	11.0	0.0	1.3	3.0	0.0	H-Horn	PK	0.0	50.7	74.0	-23.3	Mid channel
4923.995	38.3	6.2	265.0	1.3	3.0	0.0	H-Horn	PK	0.0	44.5	74.0	-29.5	High channel
4883.949	38.3	6.2	150.0	1.2	3.0	0.0	V-Horn	PK	0.0	44.5	74.0	-29.5	Mid channel
4923.995	38.2	6.2	240.0	1.2	3.0	0.0	V-Horn	PK	0.0	44.4	74.0	-29.6	High channel
4883.949	38.2	6.2	237.0	1.3	3.0	0.0	H-Horn	PK	0.0	44.4	74.0	-29.6	Mid channel
4824.000	37.7	5.9	203.0	1.3	3.0	0.0	H-Horn	PK	0.0	43.6	74.0	-30.4	Low channel
4824.000	37.6	5.9	61.0	1.2	3.0	0.0	V-Horn	PK	0.0	43.5	74.0	-30.5	Low channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/24/03
Customer:	INTERMEC Technologies			Temperature:	77
Attendees:				Humidity:	37%
Cust. Ref. No.:				Barometric Pressure	29.93
Tested by:	Holly Ashkannejhad	Power:	DC over E-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 067263 Flat Panel.

EUT OPERATING MODES

802.11(b), See comments for channel, Stand alone.

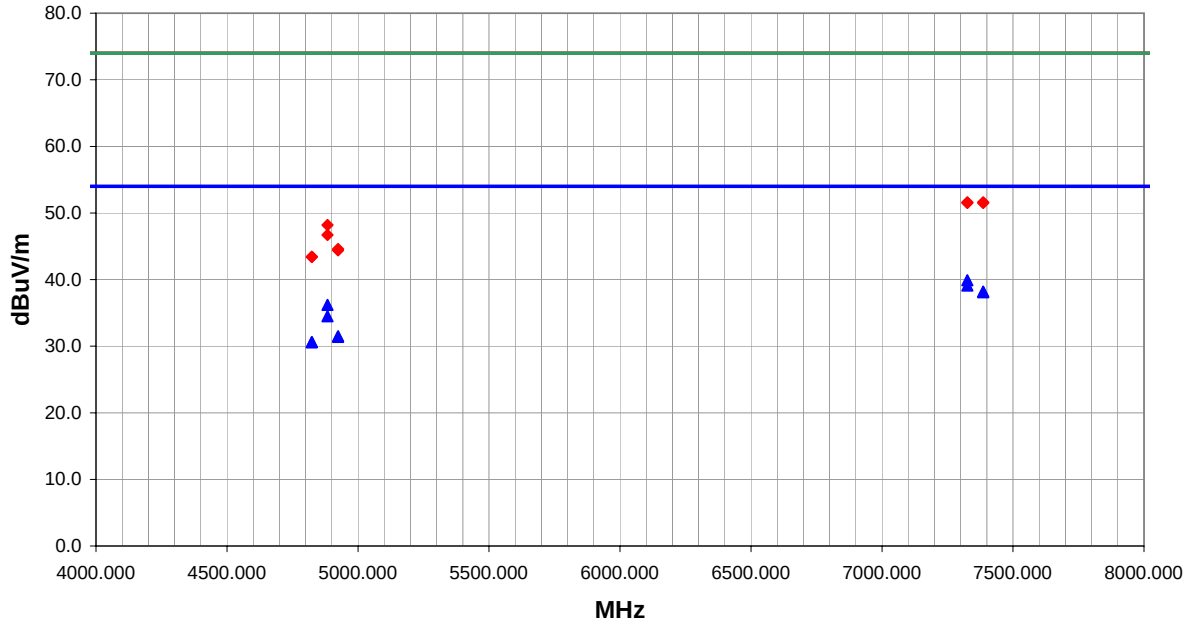
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	9

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
7326.000	28.9	11.0	10.0	1.3	3.0	0.0	H-Horn	AV	0.0	39.9	54.0	-14.1	Mid channel
7326.000	28.1	11.0	53.0	1.2	3.0	0.0	V-Horn	AV	0.0	39.1	54.0	-14.9	Mid channel
7386.000	27.0	11.2	4.0	1.3	3.0	0.0	H-Horn	AV	0.0	38.2	54.0	-15.8	High channel
7386.000	26.9	11.2	227.0	3.0	3.0	0.0	V-Horn	AV	0.0	38.1	54.0	-15.9	High channel
4883.949	30.0	6.2	35.0	1.5	3.0	0.0	V-Horn	AV	0.0	36.2	54.0	-17.8	Mid channel
4883.949	28.3	6.2	13.0	1.3	3.0	0.0	H-Horn	AV	0.0	34.5	54.0	-19.5	Mid channel
4923.995	25.3	6.2	259.0	1.2	3.0	0.0	V-Horn	AV	0.0	31.5	54.0	-22.5	High channel
4923.995	25.2	6.2	96.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.4	54.0	-22.6	High channel
4824.000	24.7	5.9	354.0	1.3	3.0	0.0	H-Horn	AV	0.0	30.6	54.0	-23.4	High channel
4824.000	24.7	5.9	163.0	1.2	3.0	0.0	V-Horn	AV	0.0	30.6	54.0	-23.4	High channel
7386.000	40.4	11.2	4.0	1.3	3.0	0.0	H-Horn	PK	0.0	51.6	74.0	-22.4	High channel
7326.000	40.6	11.0	53.0	1.2	3.0	0.0	V-Horn	PK	0.0	51.6	74.0	-22.4	Mid channel
7326.000	40.5	11.0	10.0	1.3	3.0	0.0	H-Horn	PK	0.0	51.5	74.0	-22.5	Mid channel
7386.000	40.3	11.2	227.0	3.0	3.0	0.0	V-Horn	PK	0.0	51.5	74.0	-22.5	High channel
4883.949	42.0	6.2	35.0	1.5	3.0	0.0	V-Horn	PK	0.0	48.2	74.0	-25.8	Mid channel
4883.949	40.5	6.2	13.0	1.3	3.0	0.0	H-Horn	PK	0.0	46.7	74.0	-27.3	Mid channel
4923.995	38.4	6.2	96.0	1.3	3.0	0.0	H-Horn	PK	0.0	44.6	74.0	-29.4	High channel
4923.995	38.2	6.2	259.0	1.2	3.0	0.0	V-Horn	PK	0.0	44.4	74.0	-29.6	High channel
4824.000	37.5	5.9	354.0	1.3	3.0	0.0	H-Horn	PK	0.0	43.4	74.0	-30.6	High channel
4824.000	37.5	5.9	163.0	1.2	3.0	0.0	V-Horn	PK	0.0	43.4	74.0	-30.6	High channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/25/03
Customer:	INTERMEC Technologies			Temperature:	81
Attendees:				Humidity:	33%
Cust. Ref. No.:				Barometric Pressure	29.93
Tested by:	Holly Ashkannejhad	Power:	DC over E-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 065349 Omni.

EUT OPERATING MODES

802.11(b), See comments for channel, Stand alone.

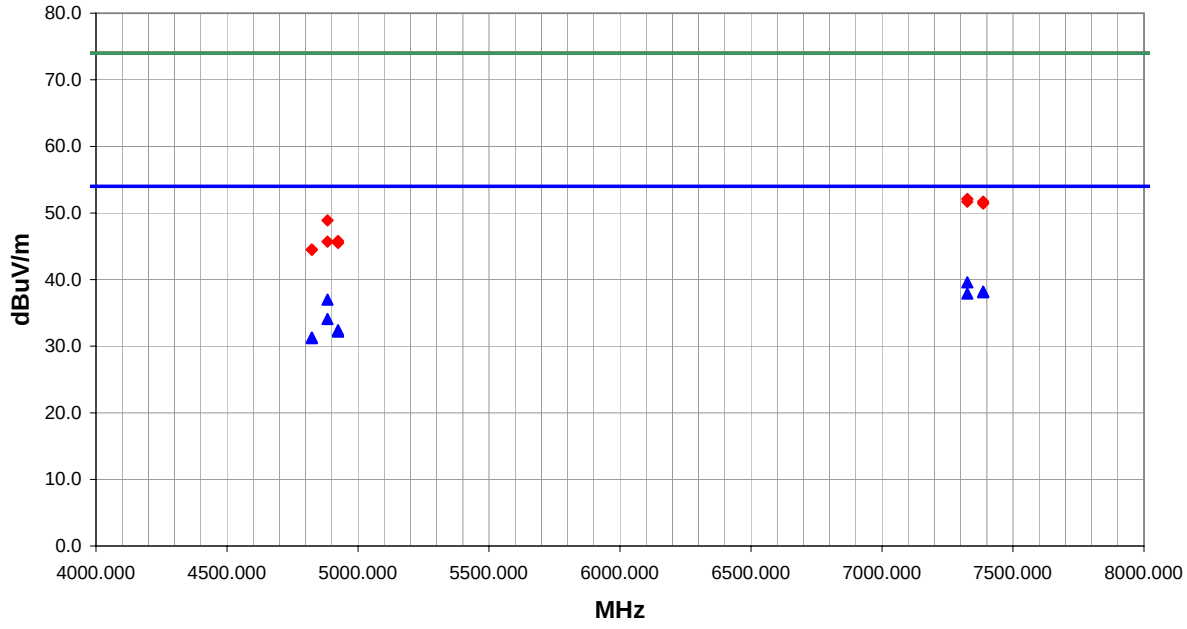
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	11

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
7326.000	28.6	11.0	134.0	1.4	3.0	0.0	H-Horn	AV	0.0	39.6	54.0	-14.4	Mid channel
7386.000	27.0	11.2	152.0	3.0	3.0	0.0	H-Horn	AV	0.0	38.2	54.0	-15.8	High channel
7386.000	26.9	11.2	104.0	1.2	3.0	0.0	V-Horn	AV	0.0	38.1	54.0	-15.9	High channel
7326.000	26.9	11.0	139.0	2.0	3.0	0.0	V-Horn	AV	0.0	37.9	54.0	-16.1	Mid channel
4883.949	30.8	6.2	246.0	1.3	3.0	0.0	H-Horn	AV	0.0	37.0	54.0	-17.0	Mid channel
4883.949	27.9	6.2	160.0	1.2	3.0	0.0	V-Horn	AV	0.0	34.1	54.0	-19.9	Mid channel
4923.995	26.2	6.2	340.0	1.3	3.0	0.0	H-Horn	AV	0.0	32.4	54.0	-21.6	High channel
4923.995	26.0	6.2	49.0	1.2	3.0	0.0	V-Horn	AV	0.0	32.2	54.0	-21.8	High channel
4824.000	25.4	5.9	180.0	1.4	3.0	0.0	V-Horn	AV	0.0	31.3	54.0	-22.7	Low channel
4824.000	25.3	5.9	149.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.2	54.0	-22.8	Low channel
7326.000	41.1	11.0	134.0	1.4	3.0	0.0	H-Horn	PK	0.0	52.1	74.0	-21.9	Mid channel
7326.000	40.7	11.0	139.0	2.0	3.0	0.0	V-Horn	PK	0.0	51.7	74.0	-22.3	Mid channel
7386.000	40.5	11.2	152.0	3.0	3.0	0.0	H-Horn	PK	0.0	51.7	74.0	-22.3	High channel
7386.000	40.2	11.2	104.0	1.2	3.0	0.0	V-Horn	PK	0.0	51.4	74.0	-22.6	High channel
4883.949	42.7	6.2	246.0	1.3	3.0	0.0	H-Horn	PK	0.0	48.9	74.0	-25.1	Mid channel
4923.995	39.6	6.2	340.0	1.3	3.0	0.0	H-Horn	PK	0.0	45.8	74.0	-28.2	High channel
4883.949	39.5	6.2	160.0	1.2	3.0	0.0	V-Horn	PK	0.0	45.7	74.0	-28.3	Mid channel
4923.995	39.3	6.2	49.0	1.2	3.0	0.0	V-Horn	PK	0.0	45.5	74.0	-28.5	High channel
4824.000	38.6	5.9	149.0	1.3	3.0	0.0	H-Horn	PK	0.0	44.5	74.0	-29.5	Low channel
4824.000	38.6	5.9	180.0	1.4	3.0	0.0	V-Horn	PK	0.0	44.5	74.0	-29.5	Low channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/25/03
Customer:	INTERMEC Technologies			Temperature:	79
Attendees:				Humidity:	38%
Cust. Ref. No.:				Barometric Pressure	29.98
Tested by:	Holly Ashkannejhad	Power:	DC over E-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 065349 Omni.

EUT OPERATING MODES

802.11(b), High Channel, Stand alone.

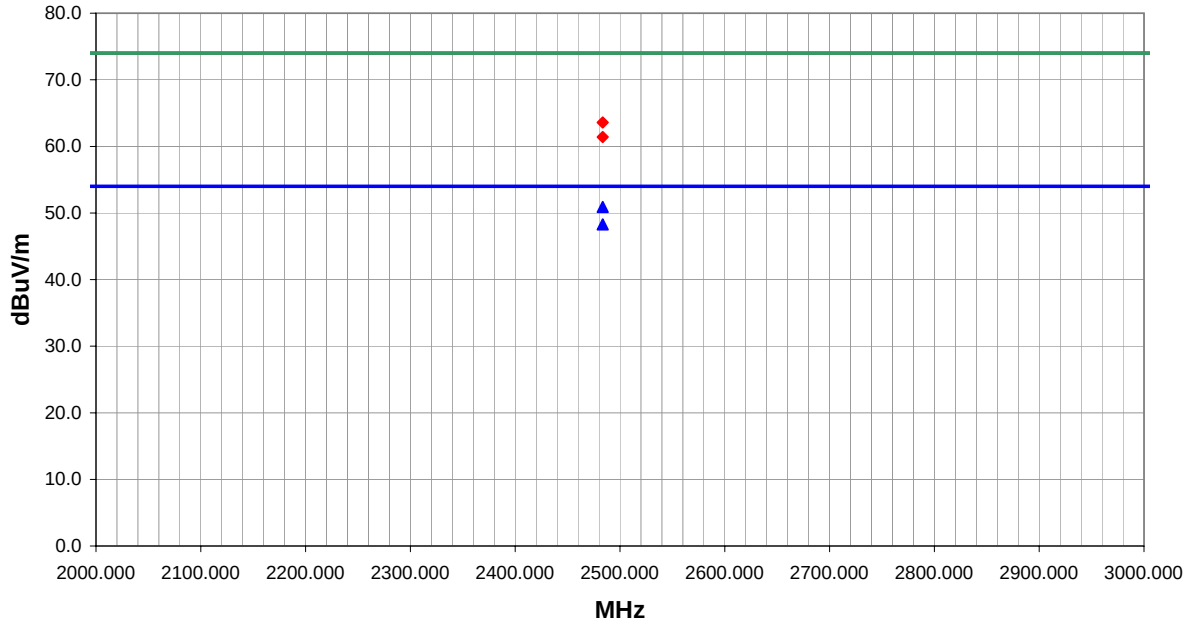
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	13

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.500	29.9	1.0	65.0	1.1	3.0	20.0	H-Horn	AV	0.0	50.9	54.0	-3.1	High channel
2483.500	27.3	1.0	29.0	1.2	3.0	20.0	V-Horn	AV	0.0	48.3	54.0	-5.7	High channel
2483.500	42.6	1.0	65.0	1.1	3.0	20.0	H-Horn	PK	0.0	63.6	74.0	-10.4	High channel
2483.500	40.4	1.0	29.0	1.2	3.0	20.0	V-Horn	PK	0.0	61.4	74.0	-12.6	High channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/25/03
Customer:	INTERMEC Technologies			Temperature:	79
Attendees:				Humidity:	38%
Cust. Ref. No.:				Barometric Pressure	29.98
Tested by:	Holly Ashkannejhad	Power:	DC over E-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 065349 Omni.

EUT OPERATING MODES

802.11(g), High Channel, Stand alone.

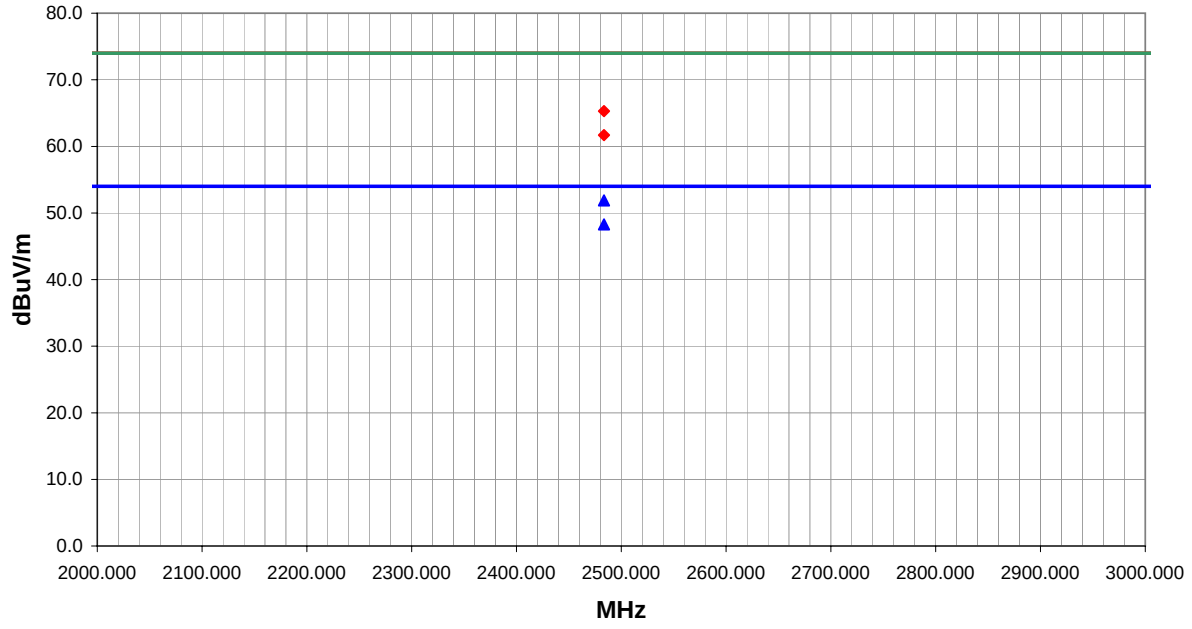
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	14

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
2483.500	30.9	1.0	60.0	1.3	3.0	20.0	H-Horn	AV	0.0	51.9	54.0	-2.1
2483.500	27.3	1.0	247.0	1.2	3.0	20.0	V-Horn	AV	0.0	48.3	54.0	-5.7
2483.500	44.3	1.0	60.0	1.3	3.0	20.0	H-Horn	PK	0.0	65.3	74.0	-8.7
2483.500	40.7	1.0	247.0	1.2	3.0	20.0	V-Horn	PK	0.0	61.7	74.0	-12.3

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/25/03
Customer:	INTERMEC Technologies			Temperature:	79
Attendees:				Humidity:	38%
Cust. Ref. No.:				Barometric Pressure	29.98
Tested by:	Holly Ashkannejhad	Power:	DC over E-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 065349 Omni.

EUT OPERATING MODES

802.11(g), See comments for channel, Stand alone.

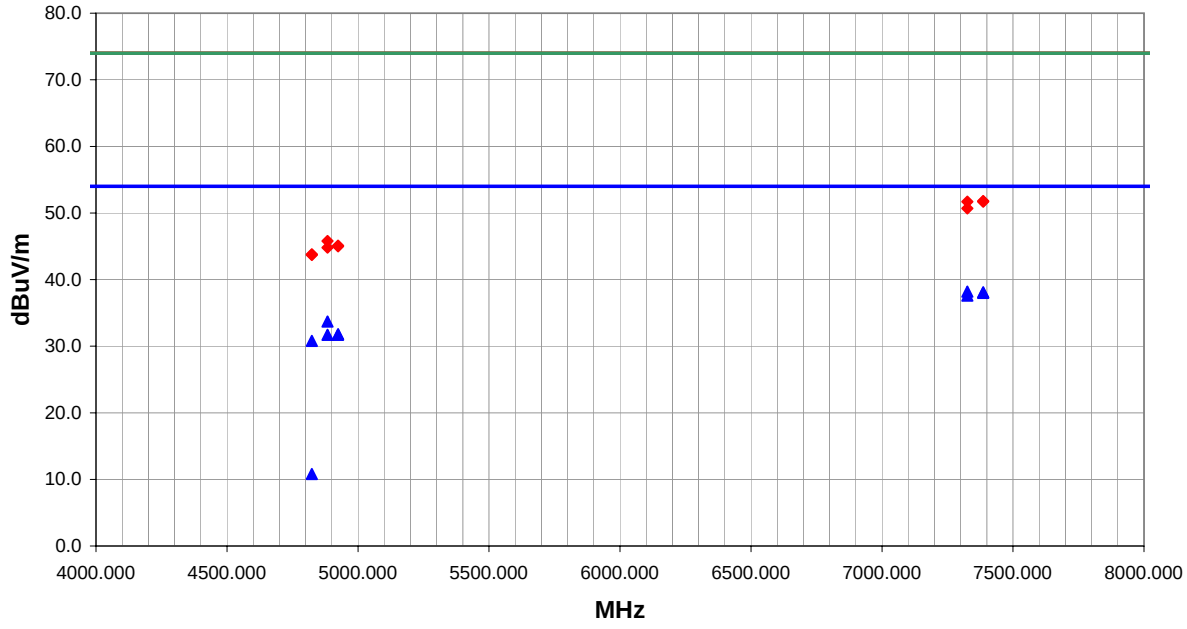
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	15

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
7326.000	27.2	11.0	91.0	2.0	3.0	0.0	V-Horn	AV	0.0	38.2	54.0	-15.8	Mid channel
7386.000	26.9	11.2	60.0	1.3	3.0	0.0	H-Horn	AV	0.0	38.1	54.0	-15.9	High channel
7386.000	26.8	11.2	28.0	3.8	3.0	0.0	V-Horn	AV	0.0	38.0	54.0	-16.0	High channel
7326.000	26.6	11.0	353.0	1.3	3.0	0.0	H-Horn	AV	0.0	37.6	54.0	-16.4	Mid channel
4883.949	27.5	6.2	191.0	1.3	3.0	0.0	H-Horn	AV	0.0	33.7	54.0	-20.3	Mid channel
4923.995	25.6	6.2	350.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.8	54.0	-22.2	High channel
4923.995	25.5	6.2	266.0	1.2	3.0	0.0	V-Horn	AV	0.0	31.7	54.0	-22.3	High channel
4883.949	25.5	6.2	140.0	2.5	3.0	0.0	V-Horn	AV	0.0	31.7	54.0	-22.3	Mid channel
4824.000	24.9	5.9	136.0	3.5	3.0	0.0	V-Horn	AV	0.0	30.8	54.0	-23.2	Low channel
4824.000	4.9	5.9	50.0	1.3	3.0	0.0	H-Horn	AV	0.0	10.8	54.0	-43.2	Low channel
7386.000	40.6	11.2	60.0	1.3	3.0	0.0	H-Horn	PK	0.0	51.8	74.0	-22.2	High channel
7326.000	40.7	11.0	91.0	2.0	3.0	0.0	V-Horn	PK	0.0	51.7	74.0	-22.3	Mid channel
7386.000	40.5	11.2	28.0	3.8	3.0	0.0	V-Horn	PK	0.0	51.7	74.0	-22.3	High channel
7326.000	39.7	11.0	353.0	1.3	3.0	0.0	H-Horn	PK	0.0	50.7	74.0	-23.3	Mid channel
4883.949	39.6	6.2	191.0	1.3	3.0	0.0	H-Horn	PK	0.0	45.8	74.0	-28.2	Mid channel
4923.995	38.9	6.2	350.0	1.3	3.0	0.0	H-Horn	PK	0.0	45.1	74.0	-28.9	High channel
4923.995	38.8	6.2	266.0	1.2	3.0	0.0	V-Horn	PK	0.0	45.0	74.0	-29.0	High channel
4883.949	38.6	6.2	140.0	2.5	3.0	0.0	V-Horn	PK	0.0	44.8	74.0	-29.2	Mid channel
4824.000	37.9	5.9	50.0	1.3	3.0	0.0	H-Horn	PK	0.0	43.8	74.0	-30.2	Low channel
4824.000	37.8	5.9	136.0	3.5	3.0	0.0	V-Horn	PK	0.0	43.7	74.0	-30.3	Low channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/25/03
Customer:	INTERMEC Technologies			Temperature:	77
Attendees:				Humidity:	37%
Cust. Ref. No.:				Barometric Pressure	29.93
Tested by:	Holly Ashkannejhad	Power:	DC over E-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 071122 Corner Reflector.

EUT OPERATING MODES

802.11(g), See comments for channel, Stand alone.

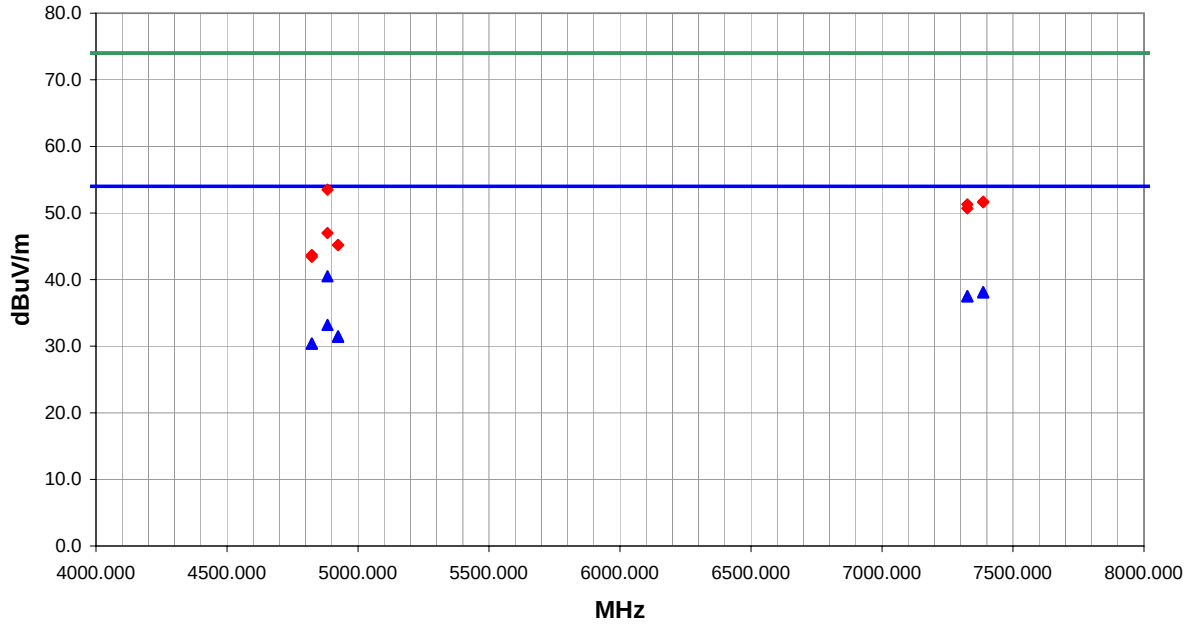
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	18

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
4883.949	34.3	6.2	158.0	1.2	3.0	0.0	V-Horn	AV	0.0	40.5	54.0	-13.5	Mid channel
7386.000	26.9	11.2	304.0	3.1	3.0	0.0	H-Horn	AV	0.0	38.1	54.0	-15.9	High channel
7386.000	26.9	11.2	158.0	3.1	3.0	0.0	V-Horn	AV	0.0	38.1	54.0	-15.9	High channel
7326.000	26.5	11.0	234.0	1.2	3.0	0.0	V-Horn	AV	0.0	37.5	54.0	-16.5	Mid channel
7326.000	26.5	11.0	151.0	2.3	3.0	0.0	H-Horn	AV	0.0	37.5	54.0	-16.5	Mid channel
4883.949	27.0	6.2	186.0	1.6	3.0	0.0	H-Horn	AV	0.0	33.2	54.0	-20.8	Mid channel
4923.995	25.3	6.2	203.0	1.2	3.0	0.0	V-Horn	AV	0.0	31.5	54.0	-22.5	High channel
4923.995	25.2	6.2	154.0	1.8	3.0	0.0	H-Horn	AV	0.0	31.4	54.0	-22.6	High channel
4824.000	24.5	5.9	172.0	1.3	3.0	0.0	H-Horn	AV	0.0	30.4	54.0	-23.6	Low channel
4824.000	24.5	5.9	296.0	3.5	3.0	0.0	V-Horn	AV	0.0	30.4	54.0	-23.6	Low channel
4883.949	47.3	6.2	158.0	1.2	3.0	0.0	V-Horn	PK	0.0	53.5	74.0	-20.5	Mid channel
7386.000	40.5	11.2	158.0	3.1	3.0	0.0	V-Horn	PK	0.0	51.7	74.0	-22.3	High channel
7386.000	40.4	11.2	304.0	3.1	3.0	0.0	H-Horn	PK	0.0	51.6	74.0	-22.4	High channel
7326.000	40.3	11.0	234.0	1.2	3.0	0.0	V-Horn	PK	0.0	51.3	74.0	-22.7	Mid channel
7326.000	39.7	11.0	151.0	2.3	3.0	0.0	H-Horn	PK	0.0	50.7	74.0	-23.3	Mid channel
4883.949	40.8	6.2	186.0	1.6	3.0	0.0	H-Horn	PK	0.0	47.0	74.0	-27.0	Mid channel
4923.995	39.0	6.2	203.0	1.2	3.0	0.0	V-Horn	PK	0.0	45.2	74.0	-28.8	High channel
4923.995	39.0	6.2	154.0	1.8	3.0	0.0	H-Horn	PK	0.0	45.2	74.0	-28.8	High channel
4824.000	37.8	5.9	296.0	3.5	3.0	0.0	V-Horn	PK	0.0	43.7	74.0	-30.3	Low channel
4824.000	37.5	5.9	172.0	1.3	3.0	0.0	H-Horn	PK	0.0	43.4	74.0	-30.6	Low channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/26/03
Customer:	INTERMEC Technologies			Temperature:	77
Attendees:				Humidity:	37%
Cust. Ref. No.:				Barometric Pressure	29.93
Tested by:	Holly Ashkannejhad	Power:	DC over E-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 071122 Corner Reflector.

EUT OPERATING MODES

802.11(b), See comments for channel, Stand alone.

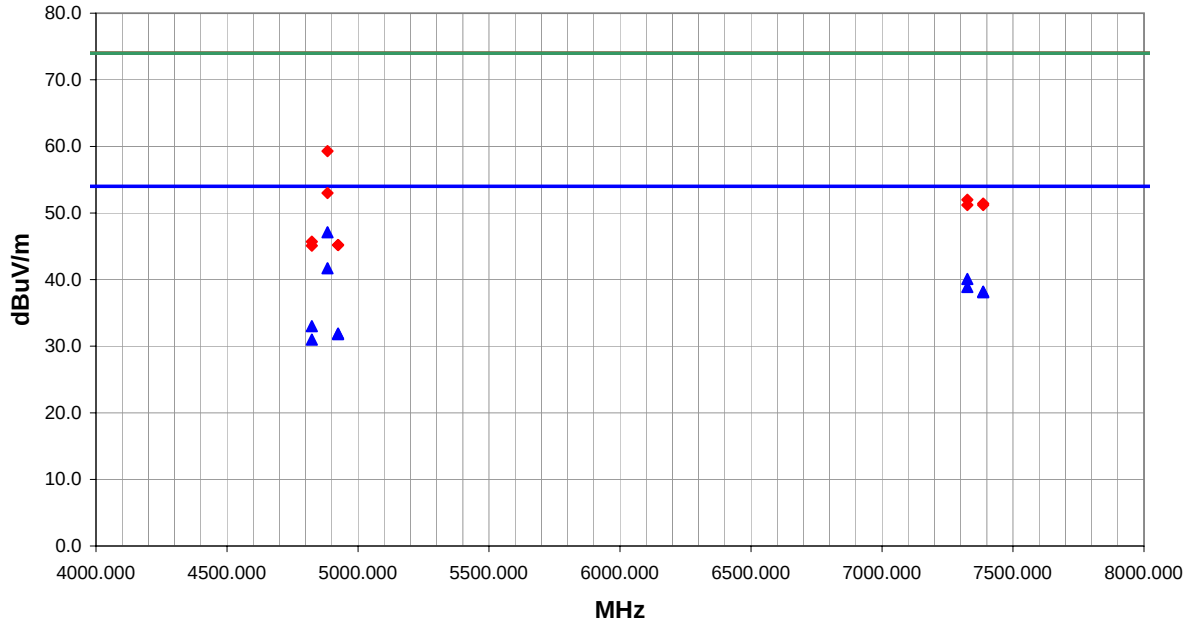
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	19

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
4883.949	40.9	6.2	156.0	1.5	3.0	0.0	V-Horn	AV	0.0	47.1	54.0	-6.9	Mid channel
4883.949	35.5	6.2	328.0	1.5	3.0	0.0	V-Horn	AV	0.0	41.7	54.0	-12.3	Mid channel
7326.000	29.1	11.0	128.0	1.2	3.0	0.0	V-Horn	AV	0.0	40.1	54.0	-13.9	Mid channel
7326.000	27.9	11.0	102.0	1.3	3.0	0.0	H-Horn	AV	0.0	38.9	54.0	-15.1	Mid channel
7386.000	27.0	11.2	238.0	1.3	3.0	0.0	H-Horn	AV	0.0	38.2	54.0	-15.8	High channel
7386.000	26.9	11.2	269.0	1.2	3.0	0.0	V-Horn	AV	0.0	38.1	54.0	-15.9	High channel
4824.000	27.1	5.9	156.0	1.2	3.0	0.0	V-Horn	AV	0.0	33.0	54.0	-21.0	Low channel
4923.995	25.7	6.2	177.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.9	54.0	-22.1	High channel
4923.995	25.6	6.2	106.0	1.2	3.0	0.0	V-Horn	AV	0.0	31.8	54.0	-22.2	High channel
4824.000	25.1	5.9	345.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.0	54.0	-23.0	Low channel
4883.949	53.1	6.2	156.0	1.5	3.0	0.0	V-Horn	PK	0.0	59.3	74.0	-14.7	Mid channel
4883.949	46.8	6.2	328.0	1.5	3.0	0.0	V-Horn	PK	0.0	53.0	74.0	-21.0	Mid channel
7326.000	41.0	11.0	128.0	1.2	3.0	0.0	V-Horn	PK	0.0	52.0	74.0	-22.0	Mid channel
7386.000	40.2	11.2	238.0	1.3	3.0	0.0	H-Horn	PK	0.0	51.4	74.0	-22.6	High channel
7326.000	40.2	11.0	102.0	1.3	3.0	0.0	H-Horn	PK	0.0	51.2	74.0	-22.8	Mid channel
7386.000	40.0	11.2	269.0	1.2	3.0	0.0	V-Horn	PK	0.0	51.2	74.0	-22.8	High channel
4824.000	39.8	5.9	156.0	1.2	3.0	0.0	V-Horn	PK	0.0	45.7	74.0	-28.3	Low channel
4923.995	39.0	6.2	177.0	1.3	3.0	0.0	H-Horn	PK	0.0	45.2	74.0	-28.8	High channel
4923.995	39.0	6.2	106.0	1.2	3.0	0.0	V-Horn	PK	0.0	45.2	74.0	-28.8	High channel
4824.000	39.2	5.9	345.0	1.3	3.0	0.0	H-Horn	PK	0.0	45.1	74.0	-28.9	Low channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/28/03
Customer:	INTERMEC Technologies			Temperature:	79
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	29.95
Tested by:	Holly Ashkannejhad	Power:	DC over E-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 071122 Corner Reflector.

EUT OPERATING MODES

802.11(b), High Channel, Stand alone.

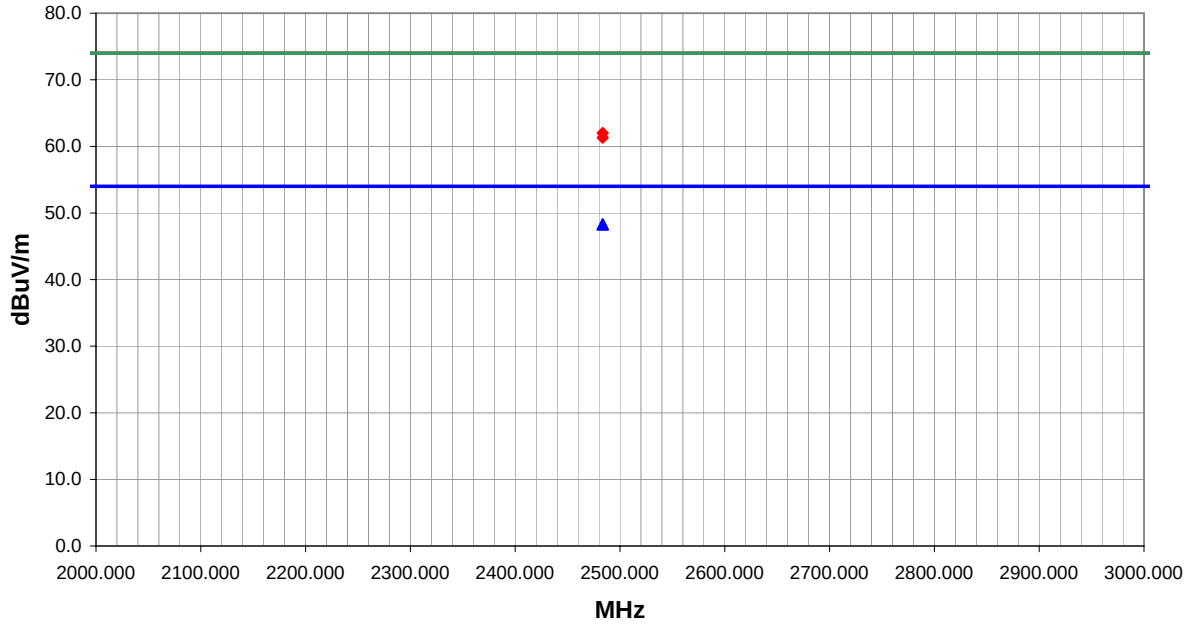
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	21

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.500	27.3	1.0	262.0	1.3	3.0	20.0	H-Horn	AV	0.0	48.3	54.0	-5.7	High channel
2483.500	27.3	1.0	253.0	2.6	3.0	20.0	V-Horn	AV	0.0	48.3	54.0	-5.7	High channel
2483.500	41.0	1.0	262.0	1.3	3.0	20.0	H-Horn	PK	0.0	62.0	74.0	-12.0	High channel
2483.500	40.3	1.0	253.0	2.6	3.0	20.0	V-Horn	PK	0.0	61.3	74.0	-12.7	High channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/28/03
Customer:	INTERMEC Technologies			Temperature:	79
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	29.95
Tested by:	Holly Ashkannejhad	Power:	DC over E-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 071122 Corner Reflector.

EUT OPERATING MODES

802.11(g), High Channel, Stand alone.

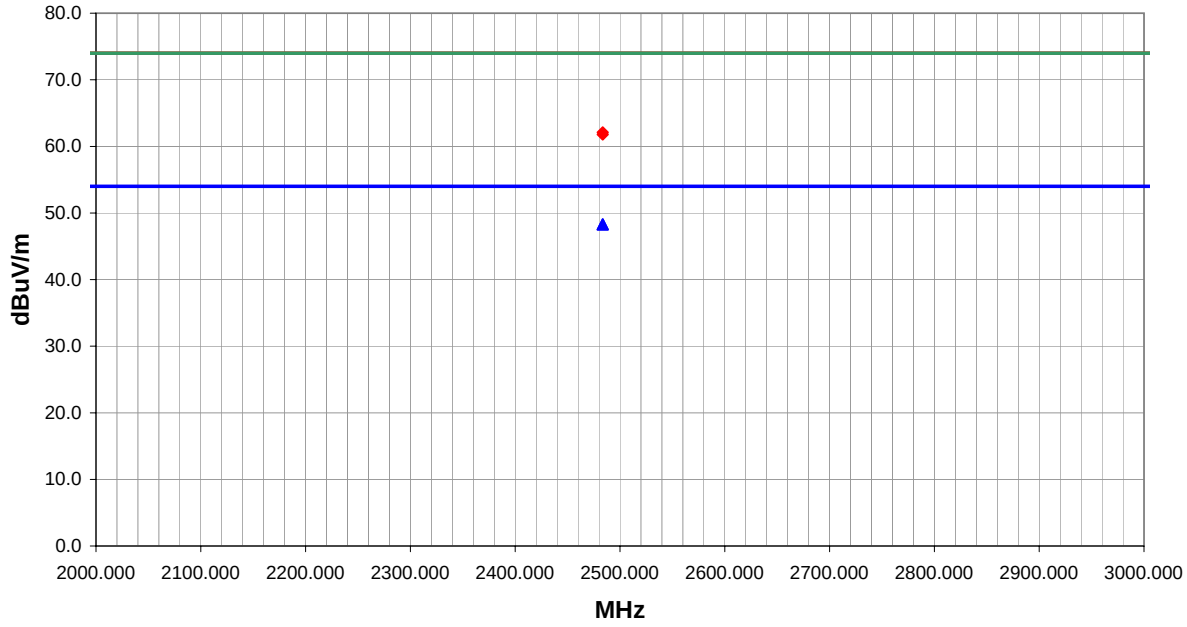
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	22

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.500	27.3	1.0	100.0	1.3	3.0	20.0	H-Horn	AV	0.0	48.3	54.0	-5.7	High channel
2483.500	27.3	1.0	95.0	1.2	3.0	20.0	V-Horn	AV	0.0	48.3	54.0	-5.7	High channel
2483.500	41.1	1.0	100.0	1.3	3.0	20.0	H-Horn	PK	0.0	62.1	74.0	-11.9	High channel
2483.500	40.8	1.0	95.0	1.2	3.0	20.0	V-Horn	PK	0.0	61.8	74.0	-12.2	High channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/28/03
Customer:	INTERMEC Technologies			Temperature:	79
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	29.95
Tested by:	Holly Ashkannejhad	Power:	DC over E-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 066147 Omni.

EUT OPERATING MODES

802.11(g), High Channel, Stand alone.

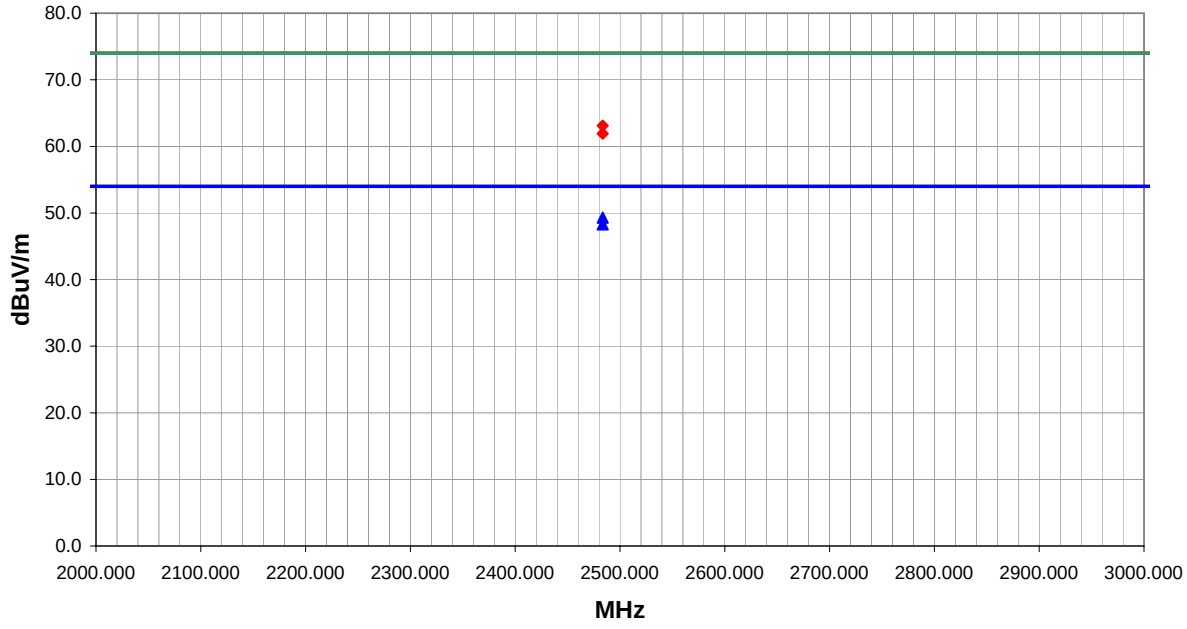
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	23

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.500	28.3	1.0	56.0	1.2	3.0	20.0	V-Horn	AV	0.0	49.3	54.0	-4.7	High channel
2483.500	27.3	1.0	19.0	1.3	3.0	20.0	H-Horn	AV	0.0	48.3	54.0	-5.7	High channel
2483.500	42.1	1.0	56.0	1.2	3.0	20.0	V-Horn	PK	0.0	63.1	74.0	-10.9	High channel
2483.500	40.9	1.0	19.0	1.3	3.0	20.0	H-Horn	PK	0.0	61.9	74.0	-12.1	High channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/28/03
Customer:	INTERMEC Technologies			Temperature:	79
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	29.95
Tested by:	Holly Ashkannejhad	Power:	DC over E-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 066147 Omni.

EUT OPERATING MODES

802.11(b), High Channel, Stand alone.

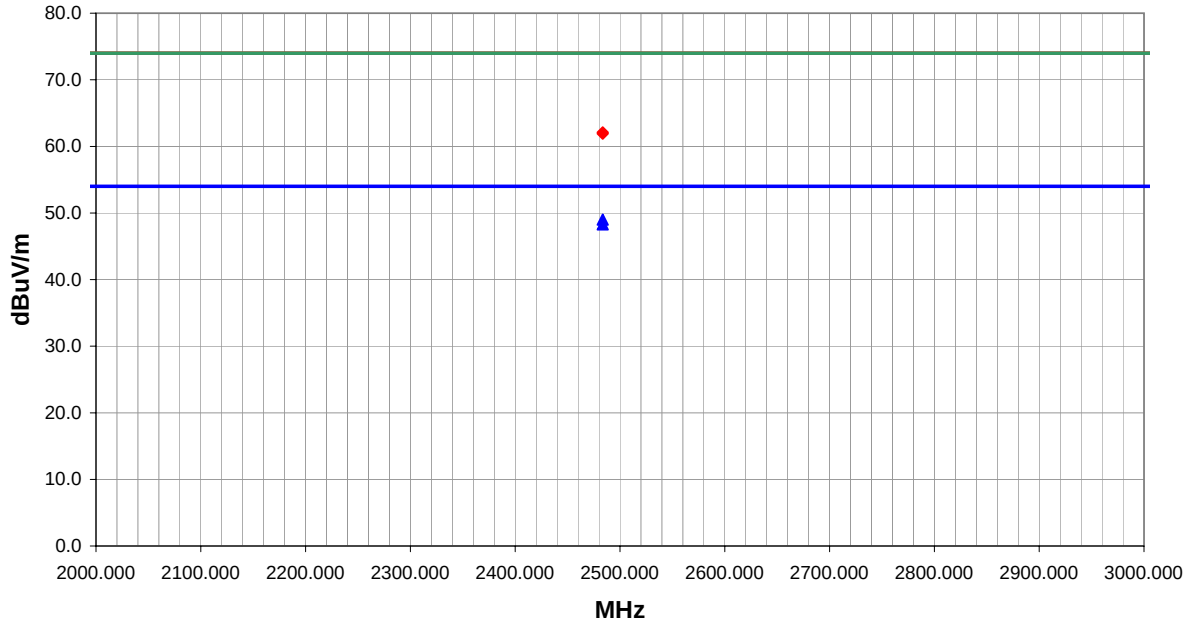
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	24

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.500	28.0	1.0	123.0	1.2	3.0	20.0	V-Horn	AV	0.0	49.0	54.0	-5.0	High channel
2483.500	27.3	1.0	36.0	1.3	3.0	20.0	H-Horn	AV	0.0	48.3	54.0	-5.7	High channel
2483.500	41.1	1.0	36.0	1.3	3.0	20.0	H-Horn	PK	0.0	62.1	74.0	-11.9	High channel
2483.500	40.9	1.0	123.0	1.2	3.0	20.0	V-Horn	PK	0.0	61.9	74.0	-12.1	High channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/28/03
Customer:	INTERMEC Technologies			Temperature:	79
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	29.95
Tested by:	Holly Ashkannejhad	Power:	DC over E-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 066147 Omni.

EUT OPERATING MODES

802.11(b), See comments for channel, Stand alone.

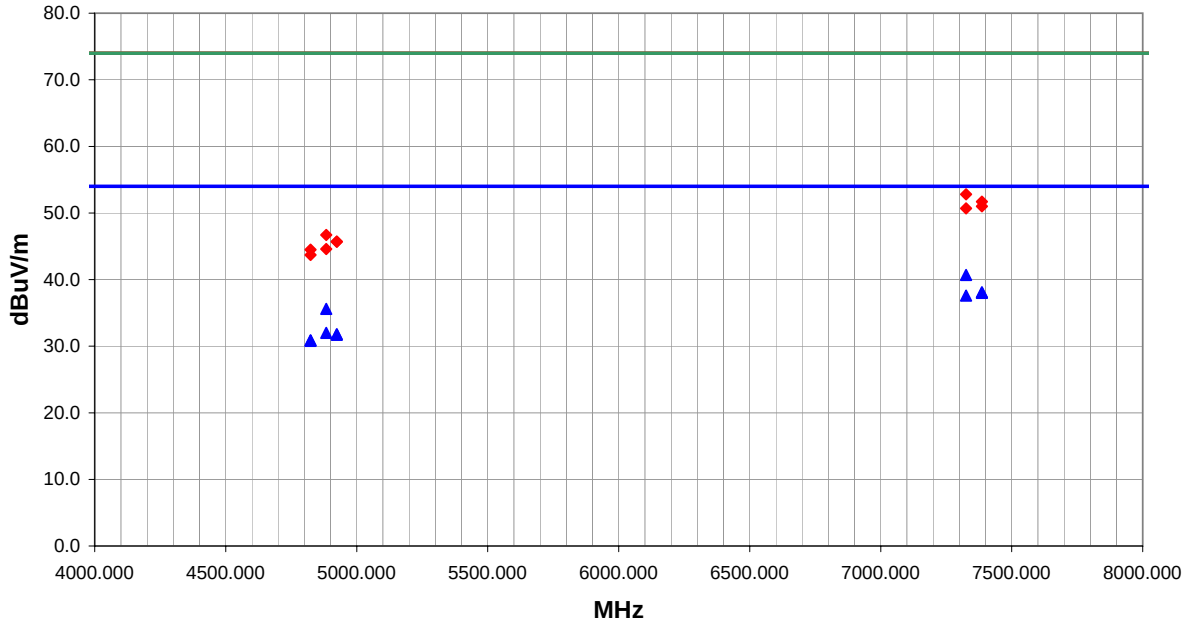
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	25

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
7326.000	29.7	11.0	340.0	1.2	3.0	0.0	V-Horn	AV	0.0	40.7	54.0	-13.3	Mid channel
7386.000	26.9	11.2	147.0	2.2	3.0	0.0	V-Horn	AV	0.0	38.1	54.0	-15.9	High Channel
7386.000	26.8	11.2	287.0	1.3	3.0	0.0	H-Horn	AV	0.0	38.0	54.0	-16.0	High Channel
7326.000	26.6	11.0	250.0	1.3	3.0	0.0	H-Horn	AV	0.0	37.6	54.0	-16.4	Mid channel
4883.949	29.4	6.2	172.0	1.2	3.0	0.0	V-Horn	AV	0.0	35.6	54.0	-18.4	Mid channel
4883.949	25.8	6.2	186.0	1.3	3.0	0.0	H-Horn	AV	0.0	32.0	54.0	-22.0	Mid channel
4923.995	25.6	6.2	257.0	1.2	3.0	0.0	V-Horn	AV	0.0	31.8	54.0	-22.2	High Channel
4923.995	25.5	6.2	357.0	3.9	3.0	0.0	H-Horn	AV	0.0	31.7	54.0	-22.3	High Channel
4824.000	25.0	5.9	124.0	1.3	3.0	0.0	H-Horn	AV	0.0	30.9	54.0	-23.1	Low channel
4824.000	24.9	5.9	98.0	2.8	3.0	0.0	V-Horn	AV	0.0	30.8	54.0	-23.2	Low channel
7326.000	41.8	11.0	340.0	1.2	3.0	0.0	V-Horn	PK	0.0	52.8	74.0	-21.2	Mid channel
7386.000	40.5	11.2	147.0	2.2	3.0	0.0	V-Horn	PK	0.0	51.7	74.0	-22.3	High Channel
7386.000	39.8	11.2	287.0	1.3	3.0	0.0	H-Horn	PK	0.0	51.0	74.0	-23.0	High Channel
7326.000	39.7	11.0	250.0	1.3	3.0	0.0	H-Horn	PK	0.0	50.7	74.0	-23.3	Mid channel
4883.949	40.5	6.2	172.0	1.2	3.0	0.0	V-Horn	PK	0.0	46.7	74.0	-27.3	Mid channel
4923.995	39.5	6.2	357.0	3.9	3.0	0.0	H-Horn	PK	0.0	45.7	74.0	-28.3	High Channel
4923.995	39.5	6.2	257.0	1.2	3.0	0.0	V-Horn	PK	0.0	45.7	74.0	-28.3	High Channel
4883.949	38.4	6.2	186.0	1.3	3.0	0.0	H-Horn	PK	0.0	44.6	74.0	-29.4	Mid channel
4824.000	38.6	5.9	98.0	2.8	3.0	0.0	V-Horn	PK	0.0	44.5	74.0	-29.5	Low channel
4824.000	37.8	5.9	124.0	1.3	3.0	0.0	H-Horn	PK	0.0	43.7	74.0	-30.3	Low channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/28/03
Customer:	INTERMEC Technologies			Temperature:	79
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	29.95
Tested by:	Holly Ashkannejhad	Power:	DC over E-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 066147 Omni.

EUT OPERATING MODES

802.11(g), See comments for channel, Stand alone.

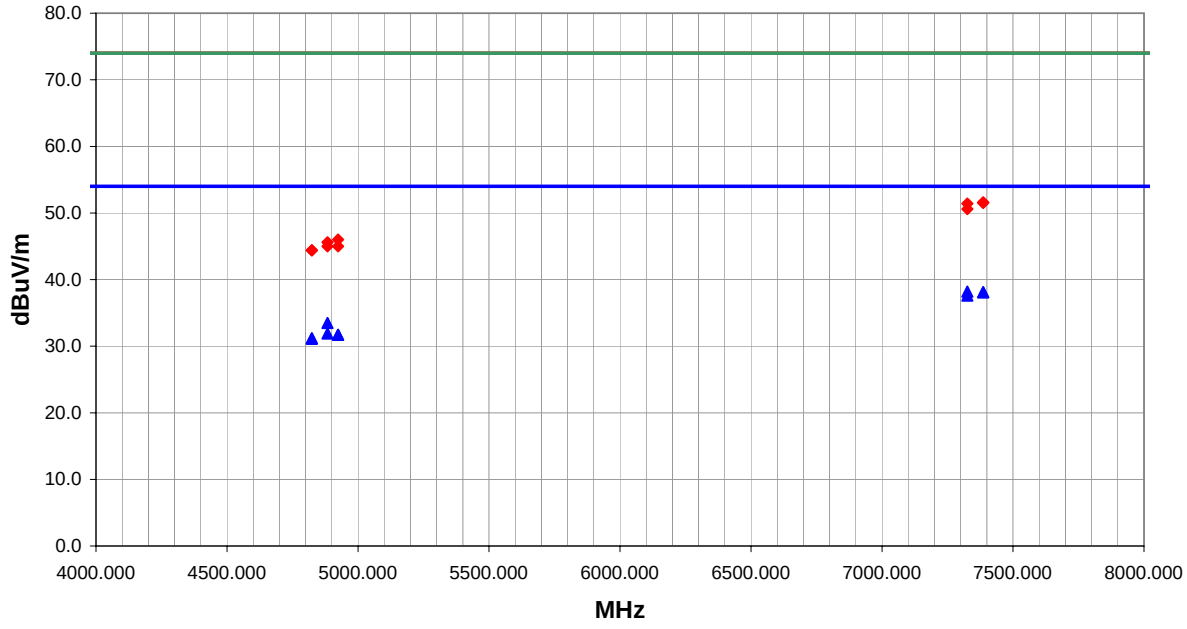
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	26

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
7326.000	27.2	11.0	212.0	1.2	3.0	0.0	V-Horn	AV	0.0	38.2	54.0	-15.8	Mid channel
7386.000	26.9	11.2	216.0	1.3	3.0	0.0	H-Horn	AV	0.0	38.1	54.0	-15.9	High channel
7386.000	26.9	11.2	71.0	1.2	3.0	0.0	V-Horn	AV	0.0	38.1	54.0	-15.9	High channel
7326.000	26.6	11.0	278.0	1.2	3.0	0.0	H-Horn	AV	0.0	37.6	54.0	-16.4	Mid channel
4883.949	27.3	6.2	6.0	1.3	3.0	0.0	V-Horn	AV	0.0	33.5	54.0	-20.5	Mid channel
4883.949	25.7	6.2	343.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.9	54.0	-22.1	Mid channel
4923.995	25.5	6.2	96.0	1.2	3.0	0.0	V-Horn	AV	0.0	31.7	54.0	-22.3	High channel
4923.995	25.5	6.2	130.0	1.9	3.0	0.0	V-Horn	AV	0.0	31.7	54.0	-22.3	High channel
4824.000	25.3	5.9	65.0	1.2	3.0	0.0	V-Horn	AV	0.0	31.2	54.0	-22.8	Low channel
4824.000	25.2	5.9	259.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.1	54.0	-22.9	Low channel
7386.000	40.4	11.2	216.0	1.3	3.0	0.0	H-Horn	PK	0.0	51.6	74.0	-22.4	High channel
7386.000	40.3	11.2	71.0	1.2	3.0	0.0	V-Horn	PK	0.0	51.5	74.0	-22.5	High channel
7326.000	40.4	11.0	212.0	1.2	3.0	0.0	V-Horn	PK	0.0	51.4	74.0	-22.6	Mid channel
7326.000	39.6	11.0	278.0	1.2	3.0	0.0	H-Horn	PK	0.0	50.6	74.0	-23.4	Mid channel
4923.995	39.8	6.2	96.0	1.2	3.0	0.0	V-Horn	PK	0.0	46.0	74.0	-28.0	High channel
4883.949	39.4	6.2	6.0	1.3	3.0	0.0	V-Horn	PK	0.0	45.6	74.0	-28.4	Mid channel
4923.995	38.8	6.2	130.0	1.9	3.0	0.0	H-Horn	PK	0.0	45.0	74.0	-29.0	High channel
4883.949	38.8	6.2	343.0	1.3	3.0	0.0	H-Horn	PK	0.0	45.0	74.0	-29.0	Mid channel
4824.000	38.5	5.9	259.0	1.3	3.0	0.0	H-Horn	PK	0.0	44.4	74.0	-29.6	Low channel
4824.000	38.5	5.9	65.0	1.2	3.0	0.0	V-Horn	PK	0.0	44.4	74.0	-29.6	Low channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/28/03
Customer:	INTERMEC Technologies			Temperature:	79
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	29.95
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 066147 Omni.

EUT OPERATING MODES

802.11(b), See comments for channel, Stand alone.

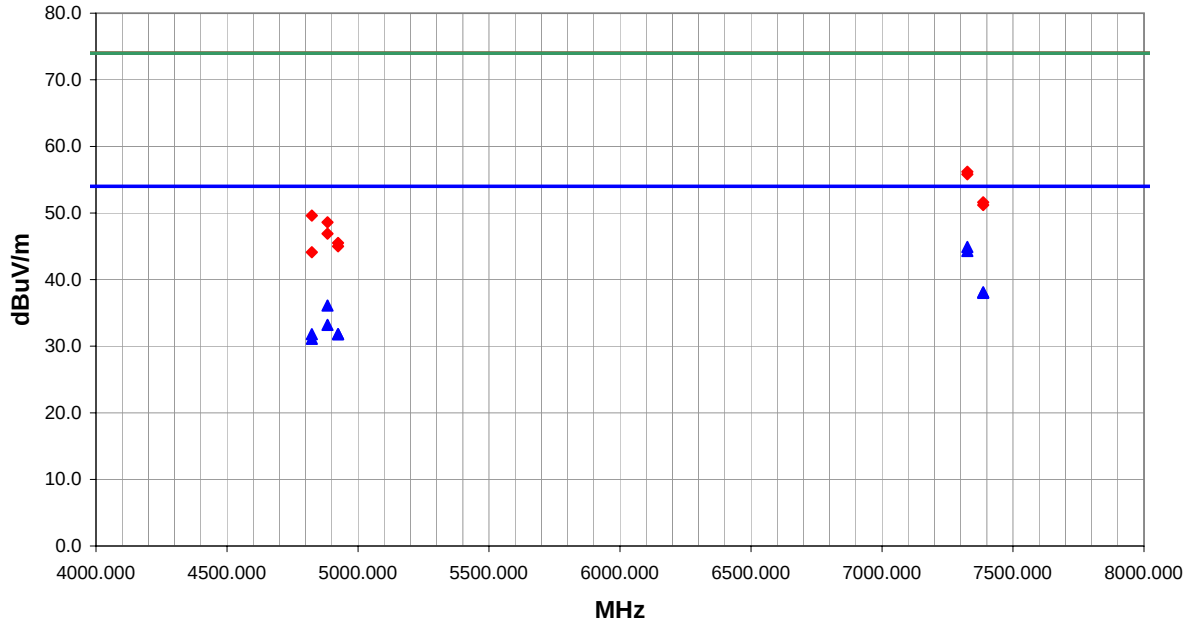
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	27

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
7326.000	33.9	11.0	193.0	1.2	3.0	0.0	H-Horn	AV	0.0	44.9	54.0	-9.1	Mid channel
7326.000	33.3	11.0	204.0	1.2	3.0	0.0	V-Horn	AV	0.0	44.3	54.0	-9.7	Mid channel
7386.000	26.9	11.2	56.0	2.8	3.0	0.0	H-Horn	AV	0.0	38.1	54.0	-15.9	High channel
7386.000	26.8	11.2	34.0	1.2	3.0	0.0	V-Horn	AV	0.0	38.0	54.0	-16.0	High channel
4883.949	29.9	6.2	150.0	1.3	3.0	0.0	V-Horn	AV	0.0	36.1	54.0	-17.9	Mid channel
4883.949	27.0	6.2	119.0	2.0	3.0	0.0	H-Horn	AV	0.0	33.2	54.0	-20.8	Mid channel
4923.995	25.6	6.2	226.0	1.2	3.0	0.0	V-Horn	AV	0.0	31.8	54.0	-22.2	High channel
4923.995	25.6	6.2	335.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.8	54.0	-22.2	High channel
4824.000	25.9	5.9	13.0	1.2	3.0	0.0	V-Horn	AV	0.0	31.8	54.0	-22.2	Low channel
4824.000	25.2	5.9	90.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.1	54.0	-22.9	Low channel
7326.000	45.2	11.0	204.0	1.2	3.0	0.0	V-Horn	PK	0.0	56.2	74.0	-17.8	Mid channel
7326.000	44.8	11.0	193.0	1.2	3.0	0.0	H-Horn	PK	0.0	55.8	74.0	-18.2	Mid channel
7386.000	40.4	11.2	56.0	2.8	3.0	0.0	H-Horn	PK	0.0	51.6	74.0	-22.4	High channel
7386.000	40.0	11.2	34.0	1.2	3.0	0.0	V-Horn	PK	0.0	51.2	74.0	-22.8	High channel
4824.000	43.7	5.9	13.0	1.2	3.0	0.0	V-Horn	PK	0.0	49.6	74.0	-24.4	Low channel
4883.949	42.4	6.2	150.0	1.3	3.0	0.0	V-Horn	PK	0.0	48.6	74.0	-25.4	Mid channel
4883.949	40.7	6.2	119.0	2.0	3.0	0.0	H-Horn	PK	0.0	46.9	74.0	-27.1	Mid channel
4923.995	39.3	6.2	335.0	1.3	3.0	0.0	H-Horn	PK	0.0	45.5	74.0	-28.5	High channel
4923.995	38.8	6.2	226.0	1.2	3.0	0.0	V-Horn	PK	0.0	45.0	74.0	-29.0	High channel
4824.000	38.2	5.9	90.0	1.3	3.0	0.0	H-Horn	PK	0.0	44.1	74.0	-29.9	Low channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/28/03
Customer:	INTERMEC Technologies			Temperature:	79
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	29.95
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 066147 Omni.

EUT OPERATING MODES

802.11(g), See comments for channel, Stand alone.

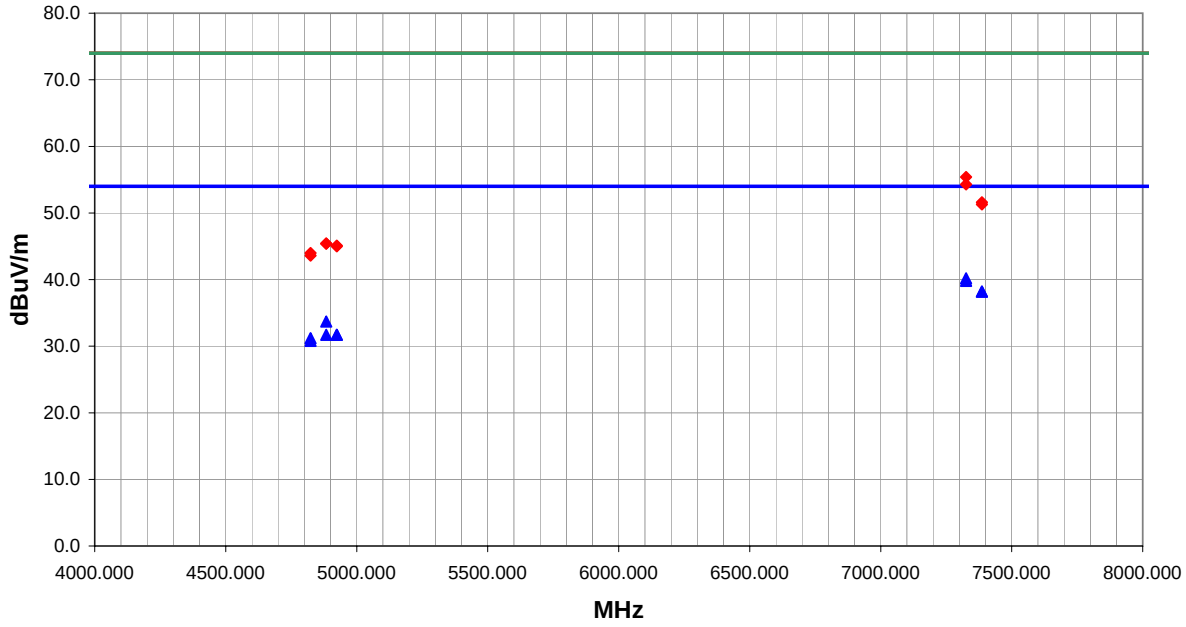
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	28

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
7326.000	29.2	11.0	134.0	1.2	3.0	0.0	V-Horn	AV	0.0	40.2	54.0	-13.8	Mid channel
7326.000	28.8	11.0	336.0	1.6	3.0	0.0	H-Horn	AV	0.0	39.8	54.0	-14.2	Mid channel
7386.000	27.0	11.2	20.0	1.1	3.0	0.0	H-Horn	AV	0.0	38.2	54.0	-15.8	High Channel
7386.000	27.0	11.2	329.0	3.6	3.0	0.0	V-Horn	AV	0.0	38.2	54.0	-15.8	High Channel
4883.949	27.5	6.2	135.0	1.6	3.0	0.0	V-Horn	AV	0.0	33.7	54.0	-20.3	Mid channel
4923.995	25.5	6.2	39.0	4.0	3.0	0.0	H-Horn	AV	0.0	31.7	54.0	-22.3	High Channel
4923.995	25.5	6.2	174.0	3.0	3.0	0.0	V-Horn	AV	0.0	31.7	54.0	-22.3	High Channel
4883.949	25.5	6.2	343.0	1.1	3.0	0.0	H-Horn	AV	0.0	31.7	54.0	-22.3	Mid channel
4824.000	25.3	5.9	289.0	1.2	3.0	0.0	V-Horn	AV	0.0	31.2	54.0	-22.8	Low channel
4824.000	24.9	5.9	153.0	1.3	3.0	0.0	H-Horn	AV	0.0	30.8	54.0	-23.2	Low channel
7326.000	44.4	11.0	336.0	1.6	3.0	0.0	H-Horn	PK	0.0	55.4	74.0	-18.6	Mid channel
7326.000	43.3	11.0	134.0	1.2	3.0	0.0	V-Horn	PK	0.0	54.3	74.0	-19.7	Mid channel
7386.000	40.4	11.2	20.0	1.1	3.0	0.0	H-Horn	PK	0.0	51.6	74.0	-22.4	High Channel
7386.000	40.1	11.2	329.0	3.6	3.0	0.0	V-Horn	PK	0.0	51.3	74.0	-22.7	High Channel
4883.949	39.2	6.2	343.0	1.1	3.0	0.0	H-Horn	PK	0.0	45.4	74.0	-28.6	Mid channel
4883.949	39.2	6.2	135.0	1.6	3.0	0.0	V-Horn	PK	0.0	45.4	74.0	-28.6	Mid channel
4923.995	38.9	6.2	174.0	3.0	3.0	0.0	V-Horn	PK	0.0	45.1	74.0	-28.9	High Channel
4923.995	38.8	6.2	39.0	4.0	3.0	0.0	H-Horn	PK	0.0	45.0	74.0	-29.0	High Channel
4824.000	38.1	5.9	289.0	1.2	3.0	0.0	V-Horn	PK	0.0	44.0	74.0	-30.0	Low channel
4824.000	37.7	5.9	153.0	1.3	3.0	0.0	H-Horn	PK	0.0	43.6	74.0	-30.4	Low channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/28/03
Customer:	INTERMEC Technologies			Temperature:	79
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	29.95
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 066147 Omni.

EUT OPERATING MODES

802.11(g), High channel, Stand alone.

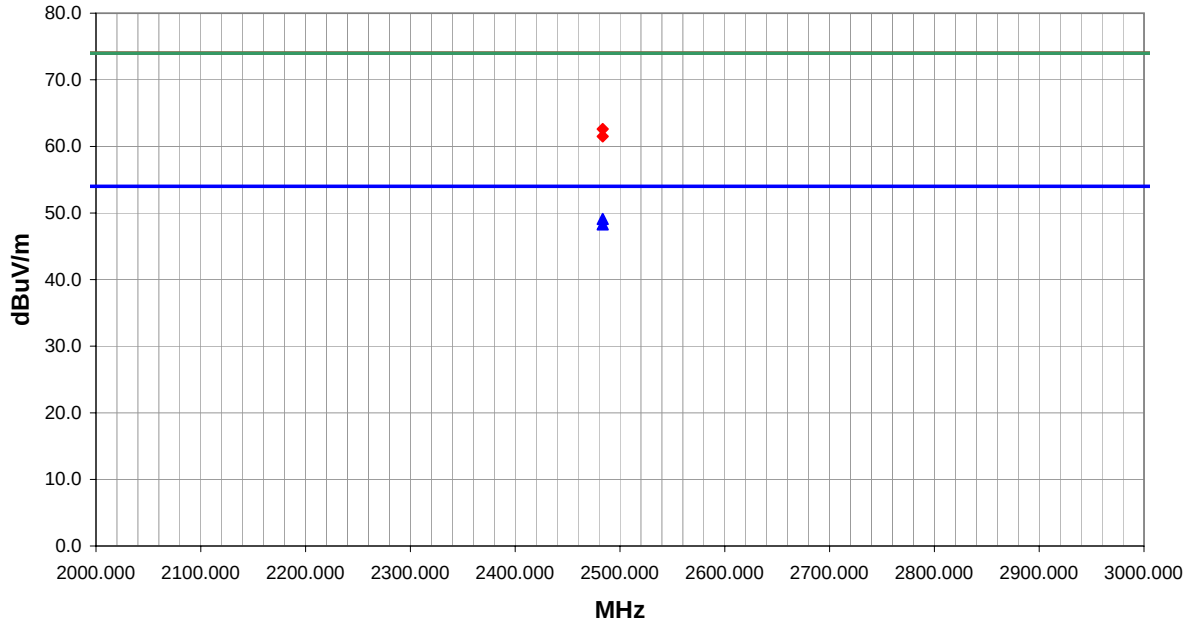
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	29

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.500	28.1	1.0	211.0	1.2	3.0	20.0	V-Horn	AV	0.0	49.1	54.0	-4.9	High channel
2483.500	27.3	1.0	140.0	2.0	3.0	20.0	H-Horn	AV	0.0	48.3	54.0	-5.7	High channel
2483.500	41.6	1.0	211.0	1.2	3.0	20.0	V-Horn	PK	0.0	62.6	74.0	-11.4	High channel
2483.500	40.5	1.0	140.0	2.0	3.0	20.0	H-Horn	PK	0.0	61.5	74.0	-12.5	High channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/28/03
Customer:	INTERMEC Technologies			Temperature:	79
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	29.95
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 066147 Omni.

EUT OPERATING MODES

802.11(b), High channel, Stand alone.

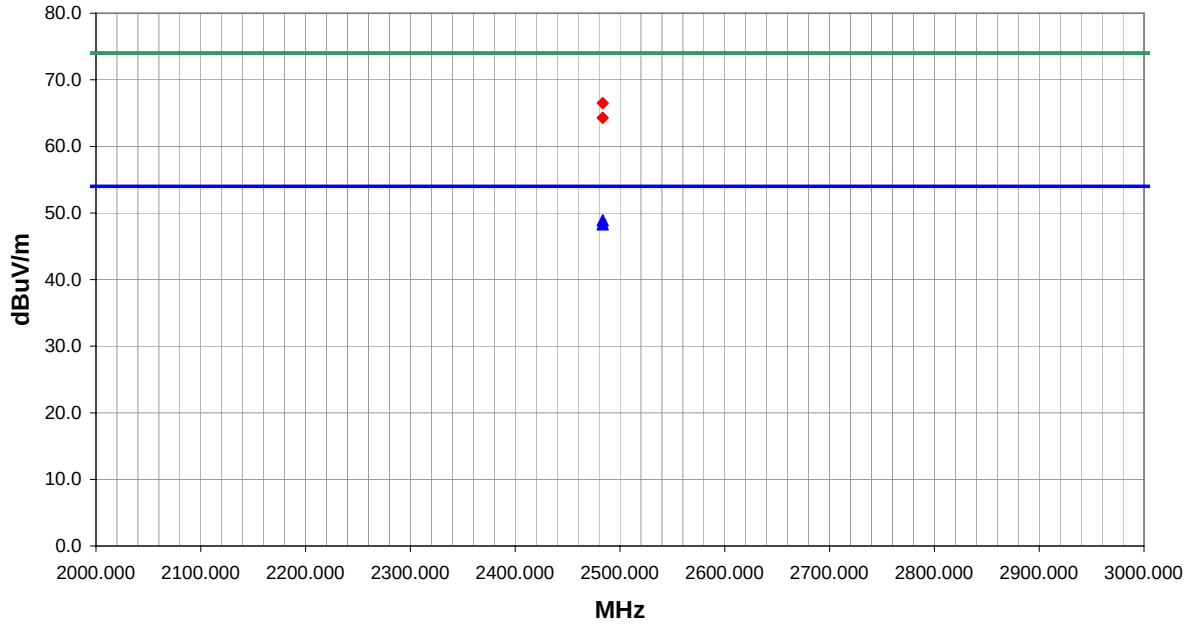
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	30

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.500	27.9	1.0	143.0	1.2	3.0	20.0	V-Horn	AV	0.0	48.9	54.0	-5.1	High channel
2483.500	27.3	1.0	0.0	1.3	3.0	20.0	H-Horn	AV	0.0	48.3	54.0	-5.7	High channel
2483.500	45.5	1.0	143.0	1.2	3.0	20.0	V-Horn	PK	0.0	66.5	74.0	-7.5	High channel
2483.500	43.3	1.0	0.0	1.3	3.0	20.0	H-Horn	PK	0.0	64.3	74.0	-9.7	High channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/28/03
Customer:	INTERMEC Technologies			Temperature:	79
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	29.95
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 065349 Omni.

EUT OPERATING MODES

802.11(b), High channel, Stand alone.

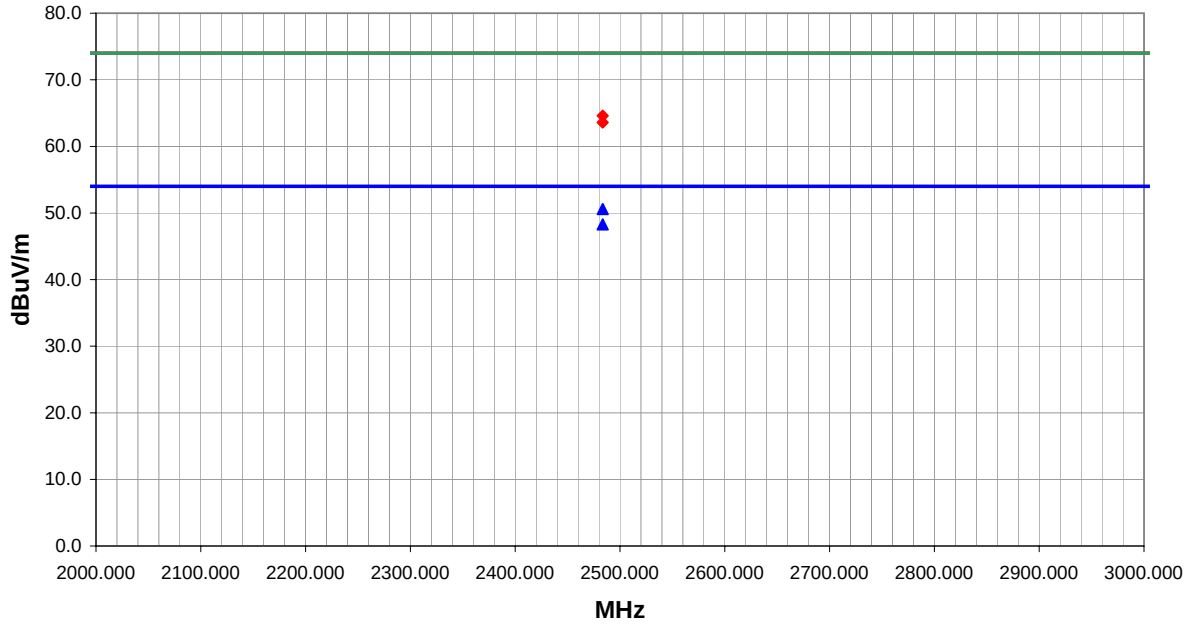
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	31

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.500	29.6	1.0	231.0	2.5	3.0	20.0	H-Horn	AV	0.0	50.6	54.0	-3.4	High channel
2483.500	27.3	1.0	147.0	1.2	3.0	20.0	V-Horn	AV	0.0	48.3	54.0	-5.7	High channel
2483.500	43.6	1.0	147.0	1.2	3.0	20.0	V-Horn	PK	0.0	64.6	74.0	-9.4	High channel
2483.500	42.6	1.0	231.0	2.5	3.0	20.0	H-Horn	PK	0.0	63.6	74.0	-10.4	High channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/28/03
Customer:	INTERMEC Technologies			Temperature:	79
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	29.95
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 065349 Omni.

EUT OPERATING MODES

802.11(g), High channel, Stand alone.

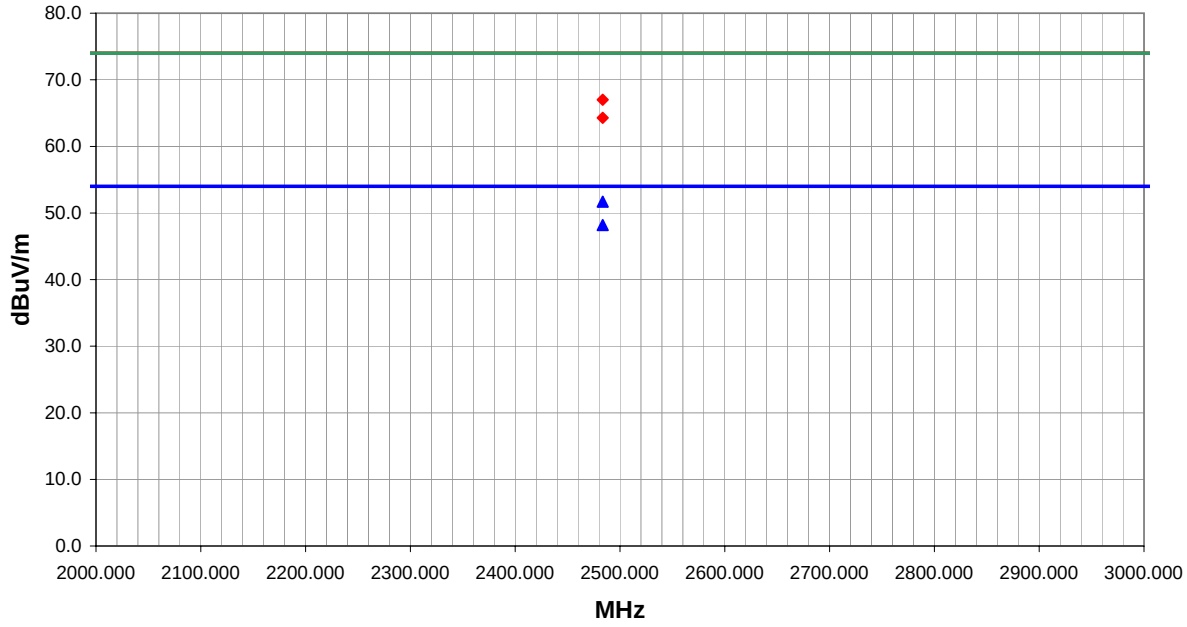
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	32

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.500	30.7	1.0	229.0	1.3	3.0	20.0	H-Horn	AV	0.0	51.7	54.0	-2.3	High channel
2483.500	27.2	1.0	176.0	1.2	3.0	20.0	V-Horn	AV	0.0	48.2	54.0	-5.8	High channel
2483.500	46.0	1.0	176.0	1.2	3.0	20.0	V-Horn	PK	0.0	67.0	74.0	-7.0	High channel
2483.500	43.3	1.0	229.0	1.3	3.0	20.0	H-Horn	PK	0.0	64.3	74.0	-9.7	High channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/28/03
Customer:	INTERMEC Technologies			Temperature:	79
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.93
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 065349 Omni.

EUT OPERATING MODES

802.11(g), See comments for channel, Stand alone.

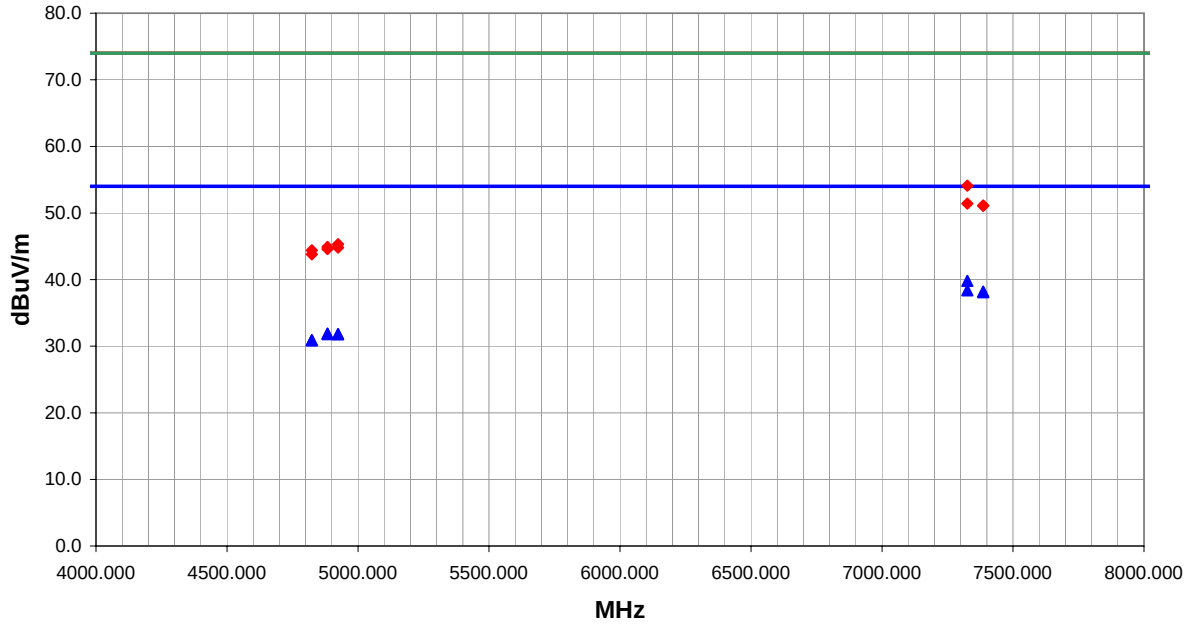
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	35

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
7326.000	28.8	11.0	253.0	1.2	3.0	0.0	H-Horn	AV	0.0	39.8	54.0	-14.2	Mid channel
7326.000	27.4	11.0	326.0	1.8	3.0	0.0	V-Horn	AV	0.0	38.4	54.0	-15.6	Mid channel
7386.000	27.0	11.2	38.0	2.3	3.0	0.0	V-Horn	AV	0.0	38.2	54.0	-15.8	High channel
7386.000	26.9	11.2	293.0	1.3	3.0	0.0	H-Horn	AV	0.0	38.1	54.0	-15.9	High channel
4883.949	25.7	6.2	29.0	2.4	3.0	0.0	V-Horn	AV	0.0	31.9	54.0	-22.1	Mid channel
4923.995	25.6	6.2	54.0	1.9	3.0	0.0	H-Horn	AV	0.0	31.8	54.0	-22.2	High channel
4923.995	25.6	6.2	81.0	3.7	3.0	0.0	V-Horn	AV	0.0	31.8	54.0	-22.2	High channel
4883.949	25.6	6.2	83.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.8	54.0	-22.2	Mid channel
4824.000	25.0	5.9	52.0	1.3	3.0	0.0	H-Horn	AV	0.0	30.9	54.0	-23.1	Low channel
4824.000	25.0	5.9	81.0	1.2	3.0	0.0	V-Horn	AV	0.0	30.9	54.0	-23.1	Low channel
7326.000	43.1	11.0	253.0	1.2	3.0	0.0	H-Horn	PK	0.0	54.1	74.0	-19.9	Mid channel
7326.000	40.4	11.0	326.0	1.8	3.0	0.0	V-Horn	PK	0.0	51.4	74.0	-22.6	Mid channel
7386.000	39.9	11.2	38.0	2.3	3.0	0.0	V-Horn	PK	0.0	51.1	74.0	-22.9	High channel
7386.000	39.9	11.2	293.0	1.3	3.0	0.0	H-Horn	PK	0.0	51.1	74.0	-22.9	High channel
4923.995	39.1	6.2	81.0	3.7	3.0	0.0	V-Horn	PK	0.0	45.3	74.0	-28.7	High channel
4883.949	38.7	6.2	83.0	1.3	3.0	0.0	H-Horn	PK	0.0	44.9	74.0	-29.1	Mid channel
4923.995	38.6	6.2	54.0	1.9	3.0	0.0	H-Horn	PK	0.0	44.8	74.0	-29.2	High channel
4883.949	38.4	6.2	29.0	2.4	3.0	0.0	V-Horn	PK	0.0	44.6	74.0	-29.4	Mid channel
4824.000	38.5	5.9	81.0	1.2	3.0	0.0	V-Horn	PK	0.0	44.4	74.0	-29.6	Low channel
4824.000	37.9	5.9	52.0	1.3	3.0	0.0	H-Horn	PK	0.0	43.8	74.0	-30.2	Low channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/30/03
Customer:	INTERMEC Technologies			Temperature:	77
Attendees:				Humidity:	39%
Cust. Ref. No.:				Barometric Pressure	29.88
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(b), See comments for channel, Stand alone.

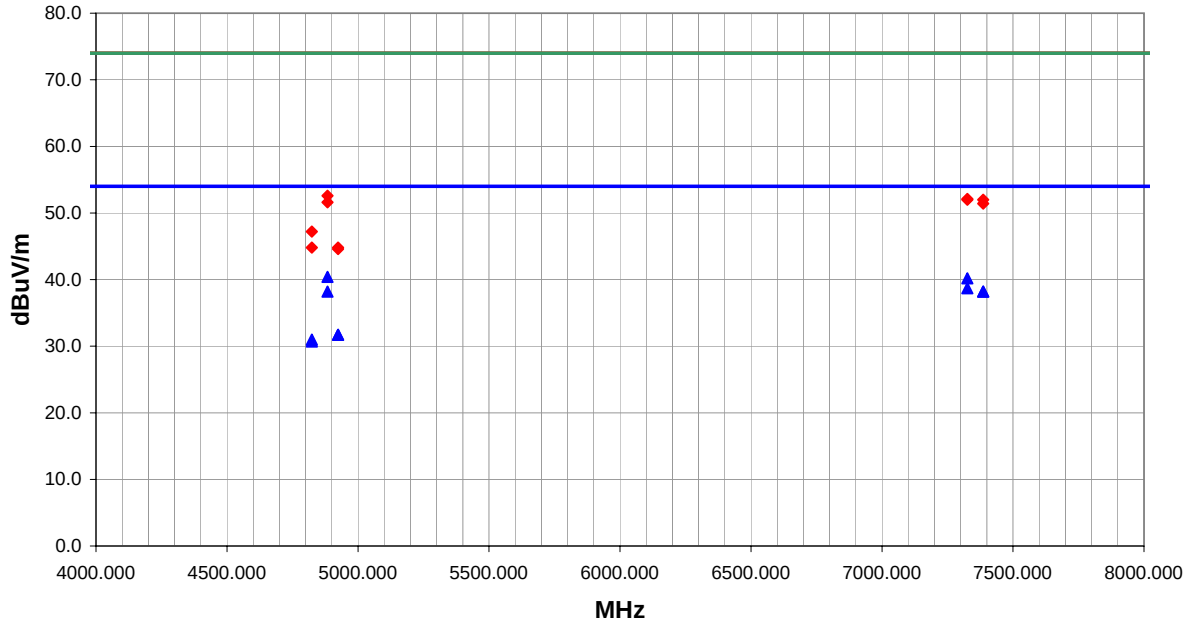
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	36

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
4883.949	34.2	6.2	256.0	2.0	3.0	0.0	H-Horn	AV	0.0	40.4	54.0	-13.6	Mid channel
7326.000	29.2	11.0	61.0	1.3	3.0	0.0	V-Horn	AV	0.0	40.2	54.0	-13.8	Mid channel
7326.000	27.7	11.0	20.0	1.3	3.0	0.0	H-Horn	AV	0.0	38.7	54.0	-15.3	Mid channel
7386.000	27.0	11.2	260.0	1.3	3.0	0.0	H-Horn	AV	0.0	38.2	54.0	-15.8	High channel
7386.000	27.0	11.2	26.0	1.3	3.0	0.0	V-Horn	AV	0.0	38.2	54.0	-15.8	High channel
4883.949	32.0	6.2	314.0	1.4	3.0	0.0	V-Horn	AV	0.0	38.2	54.0	-15.8	Mid channel
4923.995	25.5	6.2	110.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.7	54.0	-22.3	High channel
4923.995	25.5	6.2	309.0	2.3	3.0	0.0	V-Horn	AV	0.0	31.7	54.0	-22.3	High channel
4824.000	25.1	5.9	179.0	1.2	3.0	0.0	V-Horn	AV	0.0	31.0	54.0	-23.0	Low channel
4824.000	24.8	5.9	125.0	1.3	3.0	0.0	H-Horn	AV	0.0	30.7	54.0	-23.3	Low channel
4883.949	46.4	6.2	256.0	2.0	3.0	0.0	H-Horn	PK	0.0	52.6	74.0	-21.4	Mid channel
7326.000	41.1	11.0	20.0	1.3	3.0	0.0	H-Horn	PK	0.0	52.1	74.0	-21.9	Mid channel
7326.000	41.0	11.0	61.0	1.3	3.0	0.0	V-Horn	PK	0.0	52.0	74.0	-22.0	Mid channel
7386.000	40.8	11.2	26.0	1.3	3.0	0.0	V-Horn	PK	0.0	52.0	74.0	-22.0	High channel
4883.949	45.4	6.2	314.0	1.4	3.0	0.0	V-Horn	PK	0.0	51.6	74.0	-22.4	Mid channel
7386.000	40.2	11.2	260.0	1.3	3.0	0.0	H-Horn	PK	0.0	51.4	74.0	-22.6	High channel
4824.000	41.3	5.9	179.0	1.2	3.0	0.0	V-Horn	PK	0.0	47.2	74.0	-26.8	Low channel
4824.000	38.9	5.9	125.0	1.3	3.0	0.0	H-Horn	PK	0.0	44.8	74.0	-29.2	Low channel
4923.995	38.6	6.2	309.0	2.3	3.0	0.0	V-Horn	PK	0.0	44.8	74.0	-29.2	High channel
4923.995	38.4	6.2	110.0	1.3	3.0	0.0	H-Horn	PK	0.0	44.6	74.0	-29.4	High channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/30/03
Customer:	INTERMEC Technologies			Temperature:	77
Attendees:				Humidity:	39%
Cust. Ref. No.:				Barometric Pressure	29.88
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 065349 Omni.

EUT OPERATING MODES

802.11(b), See comments for channel, Stand alone.

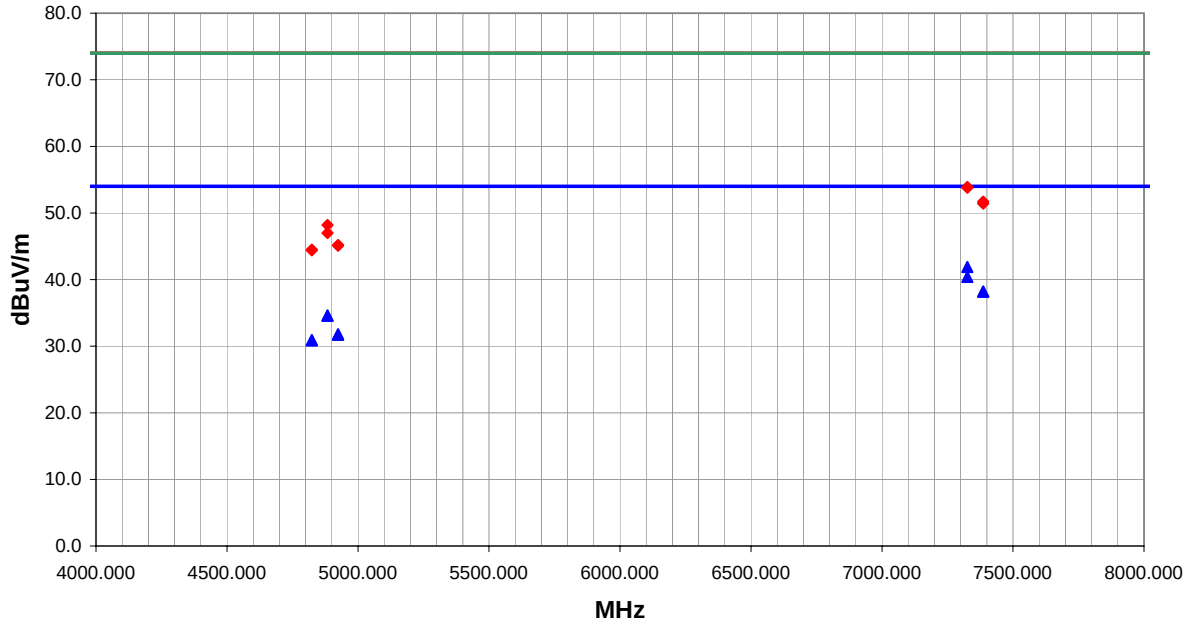
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	37

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
7326.000	30.9	11.0	255.0	3.3	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	Mid channel
7326.000	29.4	11.0	222.0	1.3	3.0	0.0	H-Horn	AV	0.0	40.4	54.0	-13.6	Mid channel
7386.000	27.0	11.2	236.0	1.3	3.0	0.0	H-Horn	AV	0.0	38.2	54.0	-15.8	High channel
7386.000	27.0	11.2	250.0	1.2	3.0	0.0	V-Horn	AV	0.0	38.2	54.0	-15.8	High channel
4883.949	28.4	6.2	17.0	1.4	3.0	0.0	H-Horn	AV	0.0	34.6	54.0	-19.4	Mid channel
4883.949	28.4	6.2	314.0	1.3	3.0	0.0	V-Horn	AV	0.0	34.6	54.0	-19.4	Mid channel
4923.995	25.6	6.2	257.0	2.9	3.0	0.0	V-Horn	AV	0.0	31.8	54.0	-22.2	High channel
4923.995	25.5	6.2	237.0	1.4	3.0	0.0	H-Horn	AV	0.0	31.7	54.0	-22.3	High channel
4824.000	25.0	5.9	238.0	1.3	3.0	0.0	H-Horn	AV	0.0	30.9	54.0	-23.1	Low channel
4824.000	25.0	5.9	37.0	1.2	3.0	0.0	V-Horn	AV	0.0	30.9	54.0	-23.1	Low channel
7326.000	42.9	11.0	255.0	3.3	3.0	0.0	V-Horn	PK	0.0	53.9	74.0	-20.1	Mid channel
7326.000	42.8	11.0	222.0	1.3	3.0	0.0	H-Horn	PK	0.0	53.8	74.0	-20.2	Mid channel
7386.000	40.5	11.2	250.0	1.2	3.0	0.0	V-Horn	PK	0.0	51.7	74.0	-22.3	High channel
7386.000	40.2	11.2	236.0	1.3	3.0	0.0	H-Horn	PK	0.0	51.4	74.0	-22.6	High channel
4883.949	42.0	6.2	17.0	1.4	3.0	0.0	H-Horn	PK	0.0	48.2	74.0	-25.8	Mid channel
4883.949	40.8	6.2	314.0	1.3	3.0	0.0	V-Horn	PK	0.0	47.0	74.0	-27.0	Mid channel
4923.995	39.0	6.2	237.0	1.4	3.0	0.0	H-Horn	PK	0.0	45.2	74.0	-28.8	High channel
4923.995	38.9	6.2	257.0	2.9	3.0	0.0	V-Horn	PK	0.0	45.1	74.0	-28.9	High channel
4824.000	38.6	5.9	238.0	1.3	3.0	0.0	H-Horn	PK	0.0	44.5	74.0	-29.5	Low channel
4824.000	38.5	5.9	37.0	1.2	3.0	0.0	V-Horn	PK	0.0	44.4	74.0	-29.6	Low channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/30/03
Customer:	INTERMEC Technologies			Temperature:	77
Attendees:				Humidity:	39%
Cust. Ref. No.:				Barometric Pressure	29.88
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(g), See comments for channel, Stand alone.

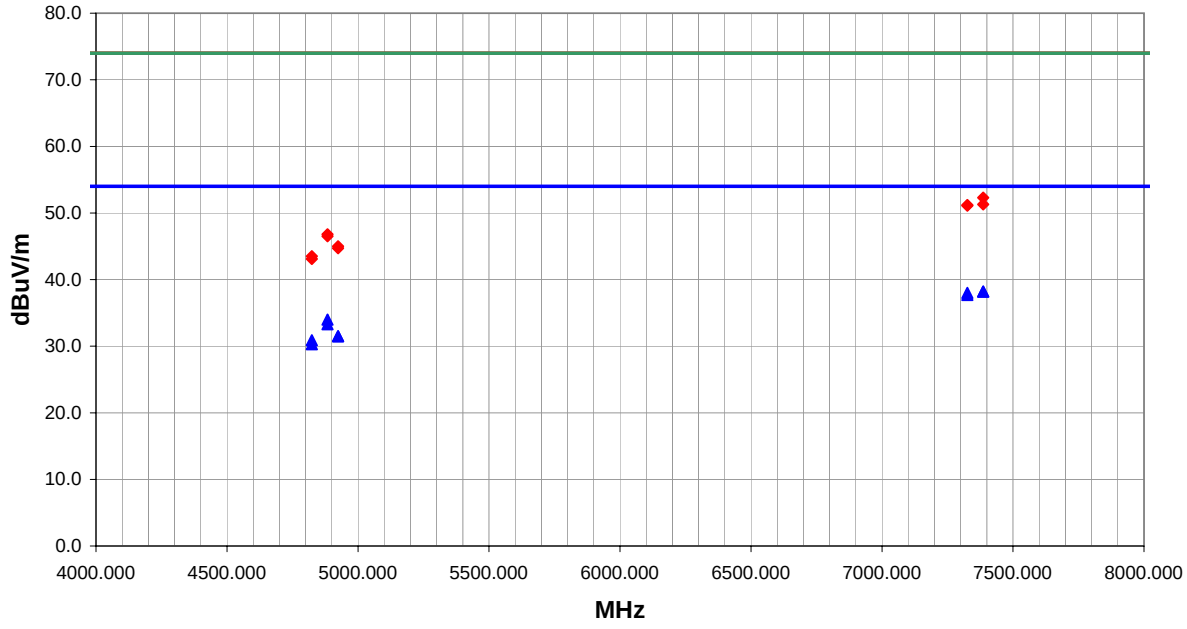
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	38

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
7386.000	27.0	11.2	256.0	1.3	3.0	0.0	H-Horn	AV	0.0	38.2	54.0	-15.8	High channel
7386.000	27.0	11.2	288.0	1.2	3.0	0.0	V-Horn	AV	0.0	38.2	54.0	-15.8	High channel
7326.000	27.0	11.0	33.0	1.2	3.0	0.0	V-Horn	AV	0.0	38.0	54.0	-16.0	Mid channel
7326.000	26.7	11.0	178.0	2.2	3.0	0.0	H-Horn	AV	0.0	37.7	54.0	-16.3	Mid channel
4883.949	27.8	6.2	317.0	1.4	3.0	0.0	V-Horn	AV	0.0	34.0	54.0	-20.0	Mid channel
4883.949	27.1	6.2	345.0	1.8	3.0	0.0	H-Horn	AV	0.0	33.3	54.0	-20.7	Mid channel
4923.995	25.3	6.2	39.0	3.6	3.0	0.0	H-Horn	AV	0.0	31.5	54.0	-22.5	High channel
4923.995	25.3	6.2	73.0	1.7	3.0	0.0	V-Horn	AV	0.0	31.5	54.0	-22.5	High channel
4824.000	25.0	5.9	187.0	1.2	3.0	0.0	V-Horn	AV	0.0	30.9	54.0	-23.1	Low channel
4824.000	24.4	5.9	323.0	1.3	3.0	0.0	H-Horn	AV	0.0	30.3	54.0	-23.7	Low channel
7386.000	41.1	11.2	288.0	1.2	3.0	0.0	V-Horn	PK	0.0	52.3	74.0	-21.7	High channel
7386.000	40.1	11.2	256.0	1.3	3.0	0.0	H-Horn	PK	0.0	51.3	74.0	-22.7	High channel
7326.000	40.2	11.0	178.0	2.2	3.0	0.0	H-Horn	PK	0.0	51.2	74.0	-22.8	Mid channel
7326.000	40.1	11.0	33.0	1.2	3.0	0.0	V-Horn	PK	0.0	51.1	74.0	-22.9	Mid channel
4883.949	40.6	6.2	317.0	1.4	3.0	0.0	V-Horn	PK	0.0	46.8	74.0	-27.2	Mid channel
4883.949	40.3	6.2	345.0	1.8	3.0	0.0	H-Horn	PK	0.0	46.5	74.0	-27.5	Mid channel
4923.995	38.8	6.2	39.0	3.6	3.0	0.0	H-Horn	PK	0.0	45.0	74.0	-29.0	High channel
4923.995	38.5	6.2	73.0	1.7	3.0	0.0	V-Horn	PK	0.0	44.7	74.0	-29.3	High channel
4824.000	37.6	5.9	187.0	1.2	3.0	0.0	V-Horn	PK	0.0	43.5	74.0	-30.5	Low channel
4824.000	37.2	5.9	323.0	1.3	3.0	0.0	H-Horn	PK	0.0	43.1	74.0	-30.9	Low channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/30/03
Customer:	INTERMEC Technologies			Temperature:	81
Attendees:				Humidity:	34%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(g), High Channel, Stand alone.

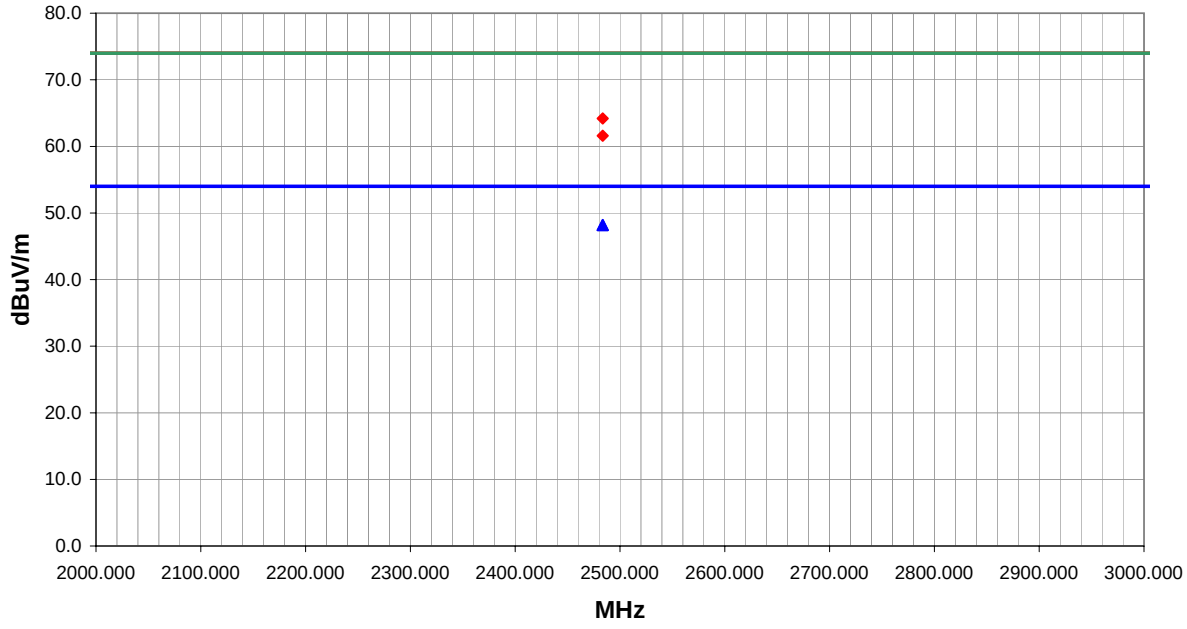
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	40

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.500	27.2	1.0	168.0	2.0	3.0	20.0	H-Horn	AV	0.0	48.2	54.0	-5.8	High channel
2483.500	27.2	1.0	42.0	1.2	3.0	20.0	V-Horn	AV	0.0	48.2	54.0	-5.8	High channel
2483.500	43.2	1.0	42.0	1.2	3.0	20.0	V-Horn	PK	0.0	64.2	74.0	-9.8	High channel
2483.500	40.6	1.0	168.0	2.0	3.0	20.0	H-Horn	PK	0.0	61.6	74.0	-12.4	High channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/30/03
Customer:	INTERMEC Technologies			Temperature:	81
Attendees:				Humidity:	34%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(b), High Channel, Stand alone.

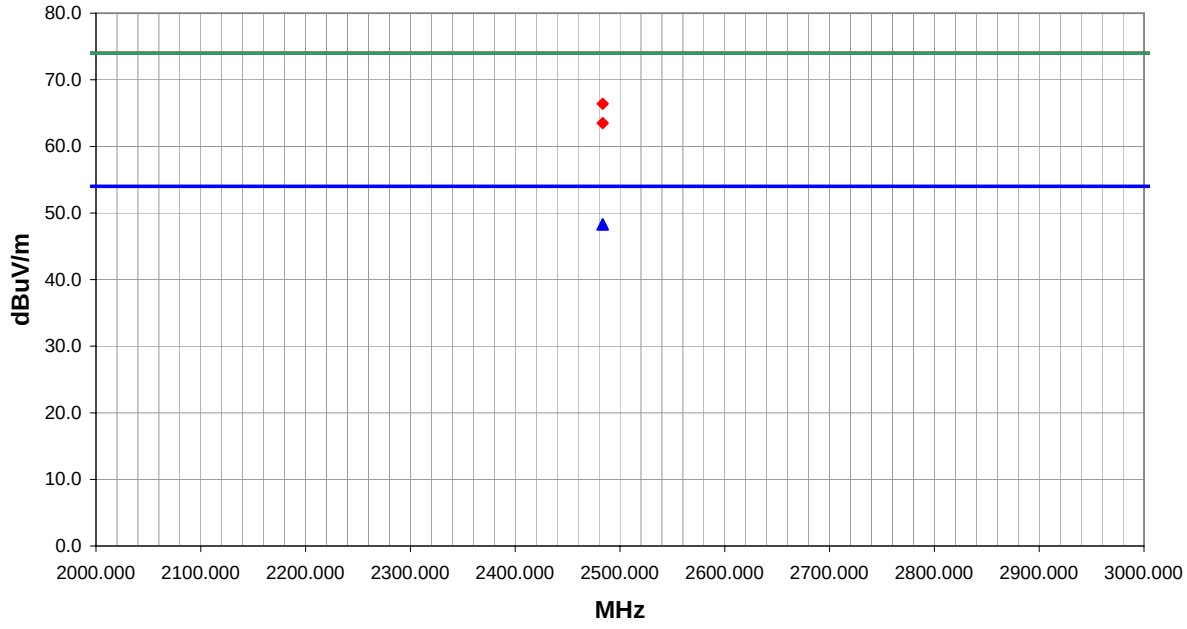
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	41

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.500	27.3	1.0	274.0	1.3	3.0	20.0	H-Horn	AV	0.0	48.3	54.0	-5.7	High channel
2483.500	27.3	1.0	15.0	1.2	3.0	20.0	V-Horn	AV	0.0	48.3	54.0	-5.7	High channel
2483.500	45.4	1.0	15.0	1.2	3.0	20.0	V-Horn	PK	0.0	66.4	74.0	-7.6	High channel
2483.500	42.5	1.0	274.0	1.3	3.0	20.0	H-Horn	PK	0.0	63.5	74.0	-10.5	High channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/30/03
Customer:	INTERMEC Technologies			Temperature:	81
Attendees:				Humidity:	34%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 067263 Flat Panel.

EUT OPERATING MODES

802.11(b), High Channel, Stand alone.

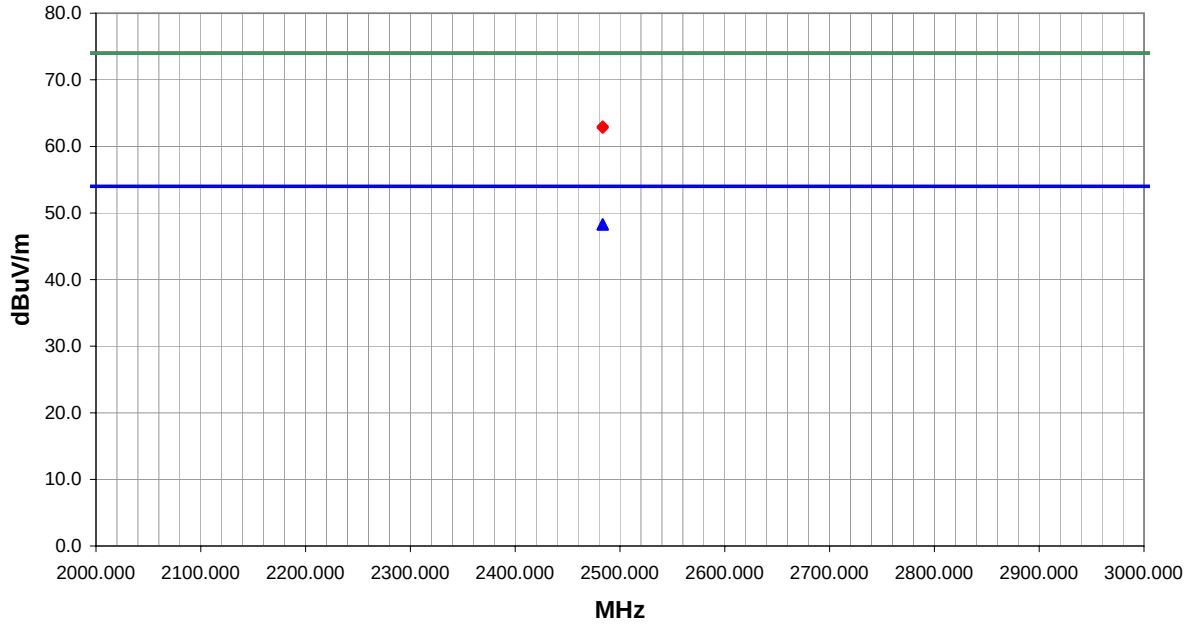
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	42

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.500	27.3	1.0	343.0	1.8	3.0	20.0	H-Horn	AV	0.0	48.3	54.0	-5.7	High channel
2483.500	27.3	1.0	91.0	1.2	3.0	20.0	V-Horn	AV	0.0	48.3	54.0	-5.7	High channel
2483.500	42.0	1.0	343.0	1.8	3.0	20.0	H-Horn	PK	0.0	63.0	74.0	-11.0	High channel
2483.500	41.8	1.0	91.0	1.2	3.0	20.0	V-Horn	PK	0.0	62.8	74.0	-11.2	High channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio	Work Order:	INMC0088
Serial Number:	none	Date:	07/30/03
Customer:	INTERMEC Technologies	Temperature:	81
Attendees:		Humidity:	34%
Cust. Ref. No.:		Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power: 120VAC, 60Hz	Job Site: EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 067263 Flat Panel.

EUT OPERATING MODES

802.11(g), High Channel, Stand alone.

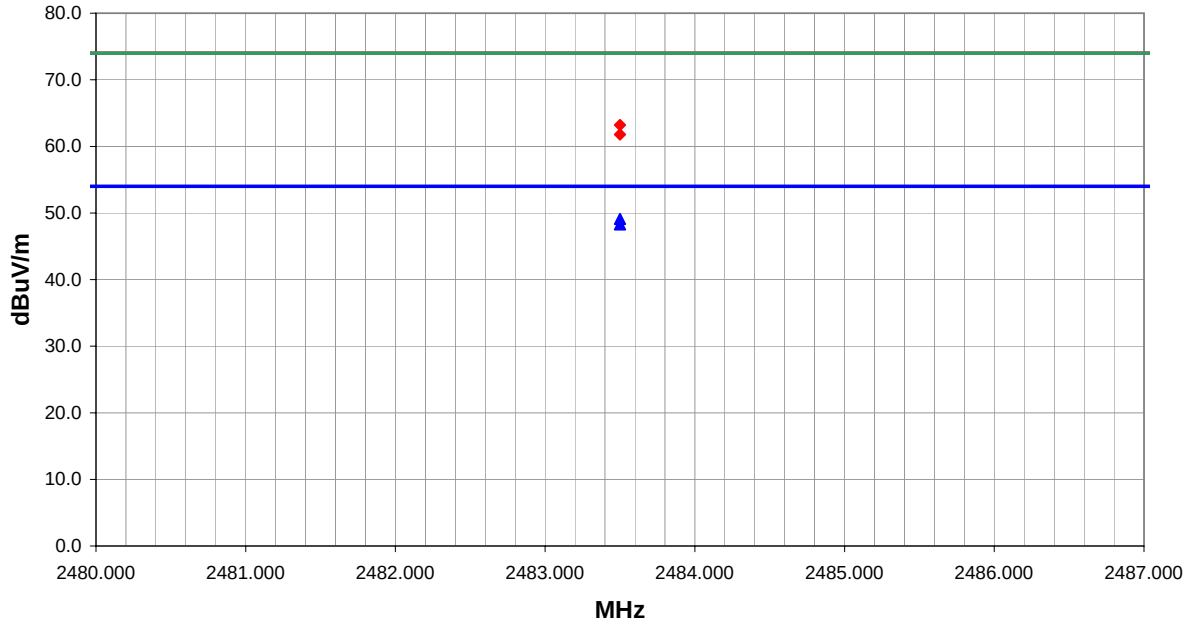
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	43

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.500	28.1	1.0	176.0	2.0	3.0	20.0	H-Horn	AV	0.0	49.1	54.0	-4.9	High channel
2483.500	27.3	1.0	224.0	1.2	3.0	20.0	V-Horn	AV	0.0	48.3	54.0	-5.7	High channel
2483.500	42.2	1.0	224.0	1.2	3.0	20.0	V-Horn	PK	0.0	63.2	74.0	-10.8	High channel
2483.500	40.8	1.0	176.0	2.0	3.0	20.0	H-Horn	PK	0.0	61.8	74.0	-12.2	High channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/30/03
Customer:	INTERMEC Technologies			Temperature:	77
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 067263 Flat Panel.

EUT OPERATING MODES

802.11(g), See comments for channel, Stand alone.

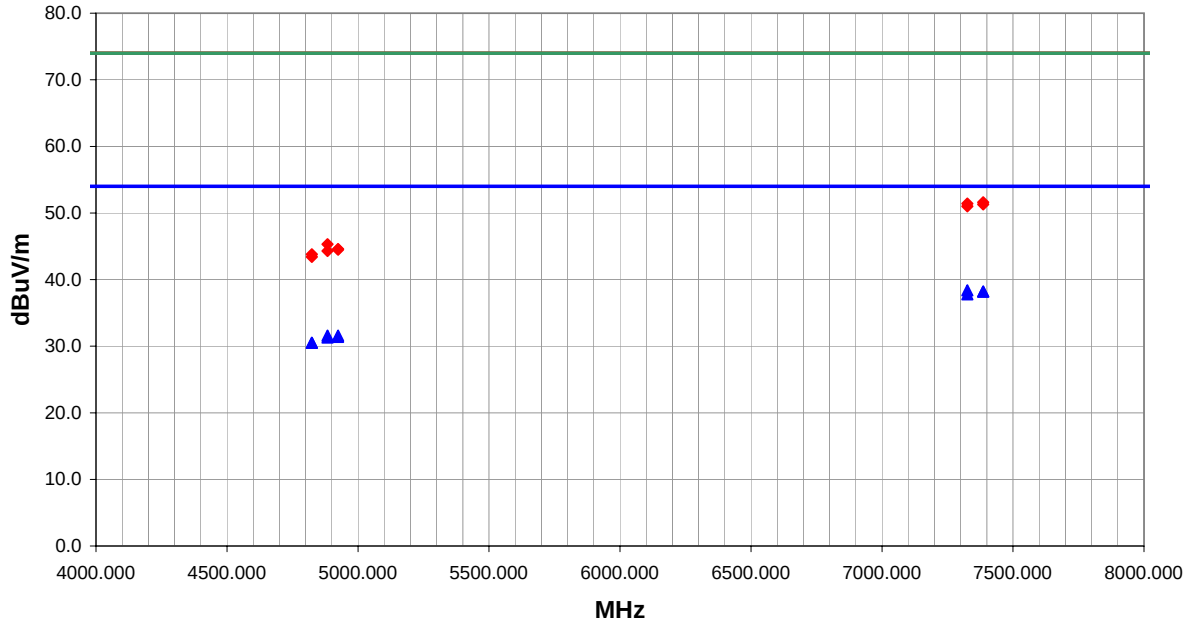
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	44

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
7326.000	27.4	11.0	88.0	1.2	3.0	0.0	V-Horn	AV	0.0	38.4	54.0	-15.6	Mid channel
7386.000	27.0	11.2	357.0	3.0	3.0	0.0	H-Horn	AV	0.0	38.2	54.0	-15.8	High channel
7386.000	27.0	11.2	196.0	1.2	3.0	0.0	V-Horn	AV	0.0	38.2	54.0	-15.8	High channel
7326.000	26.8	11.0	84.0	1.8	3.0	0.0	H-Horn	AV	0.0	37.8	54.0	-16.2	Mid channel
4923.995	25.4	6.2	144.0	1.4	3.0	0.0	V-Horn	AV	0.0	31.6	54.0	-22.4	High channel
4883.949	25.4	6.2	244.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.6	54.0	-22.4	Mid channel
4923.995	25.2	6.2	33.0	1.8	3.0	0.0	H-Horn	AV	0.0	31.4	54.0	-22.6	High channel
4883.949	25.1	6.2	173.0	1.2	3.0	0.0	V-Horn	AV	0.0	31.3	54.0	-22.7	Mid channel
4824.000	24.6	5.9	148.0	1.3	3.0	0.0	H-Horn	AV	0.0	30.5	54.0	-23.5	Low channel
4824.000	24.6	5.9	23.0	1.2	3.0	0.0	V-Horn	AV	0.0	30.5	54.0	-23.5	Low channel
7386.000	40.4	11.2	196.0	1.2	3.0	0.0	V-Horn	PK	0.0	51.6	74.0	-22.4	High channel
7326.000	40.4	11.0	84.0	1.8	3.0	0.0	H-Horn	PK	0.0	51.4	74.0	-22.6	Mid channel
7386.000	40.1	11.2	357.0	3.0	3.0	0.0	H-Horn	PK	0.0	51.3	74.0	-22.7	High channel
7326.000	40.0	11.0	88.0	1.2	3.0	0.0	V-Horn	PK	0.0	51.0	74.0	-23.0	Mid channel
4883.949	39.1	6.2	244.0	1.3	3.0	0.0	H-Horn	PK	0.0	45.3	74.0	-28.7	Mid channel
4923.995	38.4	6.2	144.0	1.4	3.0	0.0	V-Horn	PK	0.0	44.6	74.0	-29.4	High channel
4923.995	38.3	6.2	33.0	1.8	3.0	0.0	H-Horn	PK	0.0	44.5	74.0	-29.5	High channel
4883.949	38.1	6.2	173.0	1.2	3.0	0.0	V-Horn	PK	0.0	44.3	74.0	-29.7	Mid channel
4824.000	37.9	5.9	148.0	1.3	3.0	0.0	H-Horn	PK	0.0	43.8	74.0	-30.2	Low channel
4824.000	37.5	5.9	23.0	1.2	3.0	0.0	V-Horn	PK	0.0	43.4	74.0	-30.6	Low channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/30/03
Customer:	INTERMEC Technologies			Temperature:	77
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 067263 Flat Panel.

EUT OPERATING MODES

802.11(b), See comments for channel, Stand alone.

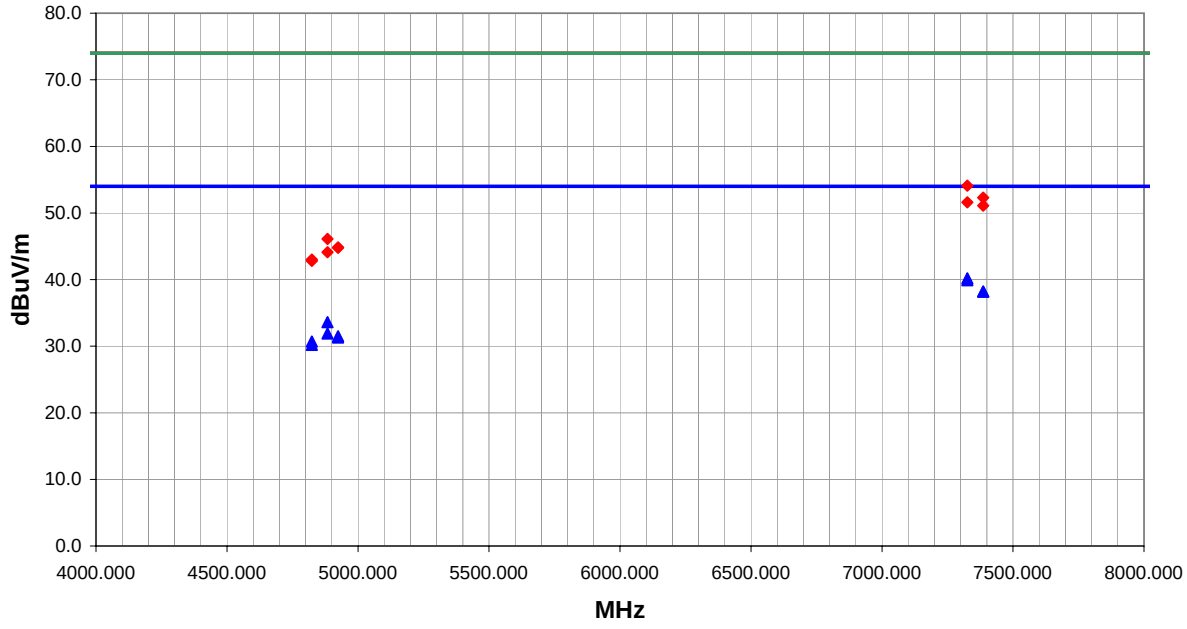
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	45

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
7326.000	29.2	11.0	93.0	1.3	3.0	0.0	V-Horn	AV	0.0	40.2	54.0	-13.8	Mid channel
7326.000	28.9	11.0	109.0	1.3	3.0	0.0	H-Horn	AV	0.0	39.9	54.0	-14.1	Mid channel
7386.000	27.0	11.2	263.0	1.3	3.0	0.0	H-Horn	AV	0.0	38.2	54.0	-15.8	High channel
7386.000	27.0	11.2	250.0	2.8	3.0	0.0	V-Horn	AV	0.0	38.2	54.0	-15.8	High channel
4883.949	27.4	6.2	210.0	1.2	3.0	0.0	V-Horn	AV	0.0	33.6	54.0	-20.4	Mid channel
4883.949	25.7	6.2	118.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.9	54.0	-22.1	Mid channel
4923.995	25.3	6.2	149.0	1.2	3.0	0.0	V-Horn	AV	0.0	31.5	54.0	-22.5	High channel
4923.995	25.1	6.2	202.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.3	54.0	-22.7	High channel
4824.000	24.8	5.9	206.0	1.3	3.0	0.0	V-Horn	AV	0.0	30.7	54.0	-23.3	Low channel
4824.000	24.3	5.9	35.0	1.4	3.0	0.0	H-Horn	AV	0.0	30.2	54.0	-23.8	Low channel
7326.000	43.1	11.0	93.0	1.3	3.0	0.0	V-Horn	PK	0.0	54.1	74.0	-19.9	Mid channel
7386.000	41.1	11.2	250.0	2.8	3.0	0.0	V-Horn	PK	0.0	52.3	74.0	-21.7	High channel
7326.000	40.6	11.0	109.0	1.3	3.0	0.0	H-Horn	PK	0.0	51.6	74.0	-22.4	Mid channel
7386.000	39.9	11.2	263.0	1.3	3.0	0.0	H-Horn	PK	0.0	51.1	74.0	-22.9	High channel
4883.949	39.9	6.2	210.0	1.2	3.0	0.0	V-Horn	PK	0.0	46.1	74.0	-27.9	Mid channel
4923.995	38.6	6.2	149.0	1.2	3.0	0.0	V-Horn	PK	0.0	44.8	74.0	-29.2	High channel
4923.995	38.6	6.2	202.0	1.3	3.0	0.0	H-Horn	PK	0.0	44.8	74.0	-29.2	High channel
4883.949	37.9	6.2	118.0	1.3	3.0	0.0	H-Horn	PK	0.0	44.1	74.0	-29.9	Mid channel
4824.000	37.1	5.9	206.0	1.3	3.0	0.0	V-Horn	PK	0.0	43.0	74.0	-31.0	Low channel
4824.000	36.9	5.9	35.0	1.4	3.0	0.0	H-Horn	PK	0.0	42.8	74.0	-31.2	Low channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/30/03
Customer:	INTERMEC Technologies			Temperature:	77
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 071122 Corner Reflector.

EUT OPERATING MODES

802.11(b), See comments for channel, Stand alone.

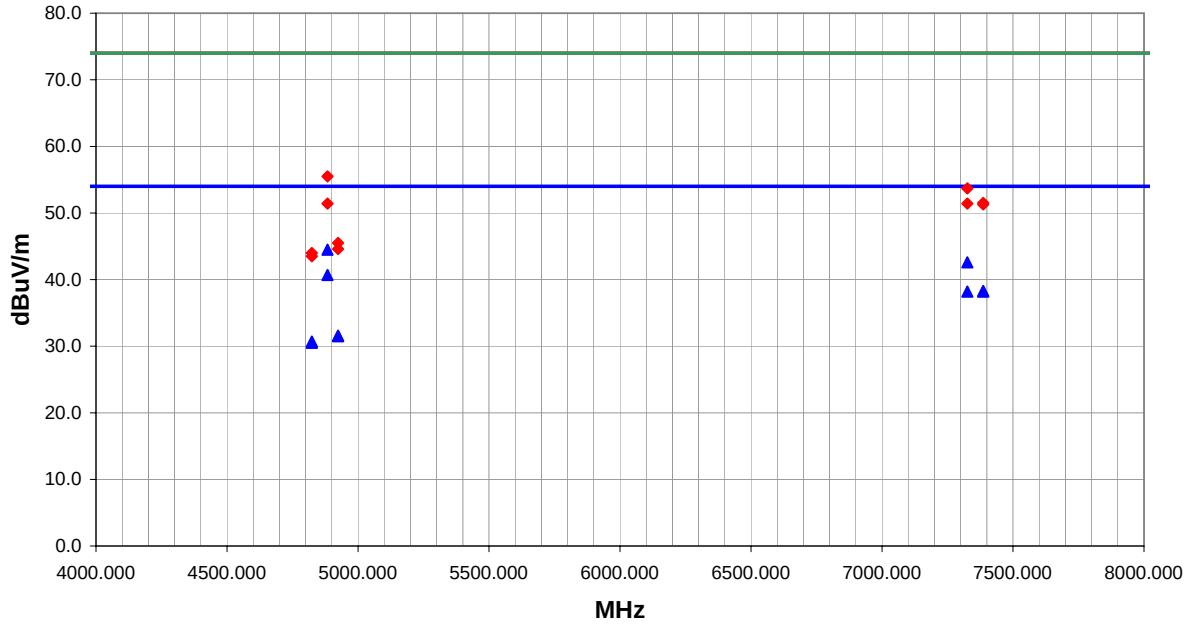
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	46

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
4883.949	38.3	6.2	147.0	1.7	3.0	0.0	V-Horn	AV	0.0	44.5	54.0	-9.5	Mid channel
7326.000	31.6	11.0	131.0	1.2	3.0	0.0	V-Horn	AV	0.0	42.6	54.0	-11.4	Mid channel
4883.949	34.5	6.2	127.0	1.3	3.0	0.0	H-Horn	AV	0.0	40.7	54.0	-13.3	Mid channel
7386.000	27.1	11.2	275.0	1.3	3.0	0.0	H-Horn	AV	0.0	38.3	54.0	-15.7	High channel
7326.000	27.2	11.0	136.0	2.3	3.0	0.0	H-Horn	AV	0.0	38.2	54.0	-15.8	Mid channel
7386.000	27.0	11.2	66.0	1.2	3.0	0.0	V-Horn	AV	0.0	38.2	54.0	-15.8	High channel
4923.995	25.4	6.2	111.0	1.2	3.0	0.0	V-Horn	AV	0.0	31.6	54.0	-22.4	High channel
4923.995	25.3	6.2	117.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.5	54.0	-22.5	High channel
4824.000	24.8	5.9	196.0	1.2	3.0	0.0	V-Horn	AV	0.0	30.7	54.0	-23.3	Low channel
4824.000	24.6	5.9	299.0	1.3	3.0	0.0	H-Horn	AV	0.0	30.5	54.0	-23.5	Low channel
4883.949	49.3	6.2	147.0	1.7	3.0	0.0	V-Horn	PK	0.0	55.5	74.0	-18.5	Mid channel
7326.000	42.7	11.0	131.0	1.2	3.0	0.0	V-Horn	PK	0.0	53.7	74.0	-20.3	Mid channel
7386.000	40.3	11.2	275.0	1.3	3.0	0.0	H-Horn	PK	0.0	51.5	74.0	-22.5	High channel
7326.000	40.4	11.0	136.0	2.3	3.0	0.0	H-Horn	PK	0.0	51.4	74.0	-22.6	Mid channel
4883.949	45.2	6.2	127.0	1.3	3.0	0.0	H-Horn	PK	0.0	51.4	74.0	-22.6	Mid channel
7386.000	40.1	11.2	66.0	1.2	3.0	0.0	V-Horn	PK	0.0	51.3	74.0	-22.7	High channel
4923.995	39.3	6.2	111.0	1.2	3.0	0.0	V-Horn	PK	0.0	45.5	74.0	-28.5	High channel
4923.995	38.4	6.2	117.0	1.3	3.0	0.0	H-Horn	PK	0.0	44.6	74.0	-29.4	High channel
4824.000	38.1	5.9	299.0	1.3	3.0	0.0	H-Horn	PK	0.0	44.0	74.0	-30.0	Low channel
4824.000	37.6	5.9	196.0	1.2	3.0	0.0	V-Horn	PK	0.0	43.5	74.0	-30.5	Low channel

NORTHWEST
EMC

OATS DATA SHEET

REV
df3.11
06/23/2003

EUT:	802MIG2 Radio			**Work Order:**	INMC0088
Serial Number:	none			**Date:**	07/31/03
Customer:	INTERMEC Technologies			**Temperature:**	77
Attendees:				**Humidity:**	35%
Cust. Ref. No.:				**Barometric Pressure**	29.9
Tested by:	Rod Peloquin	**Power:**	120VAC, 60Hz	**Job Site:**	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	**Year:**	2003
Method:	ANSI C63.4	**Year:**	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 071122 Corner Reflector.

EUT OPERATING MODES

802.11(b), See comments for channel, Stand alone.

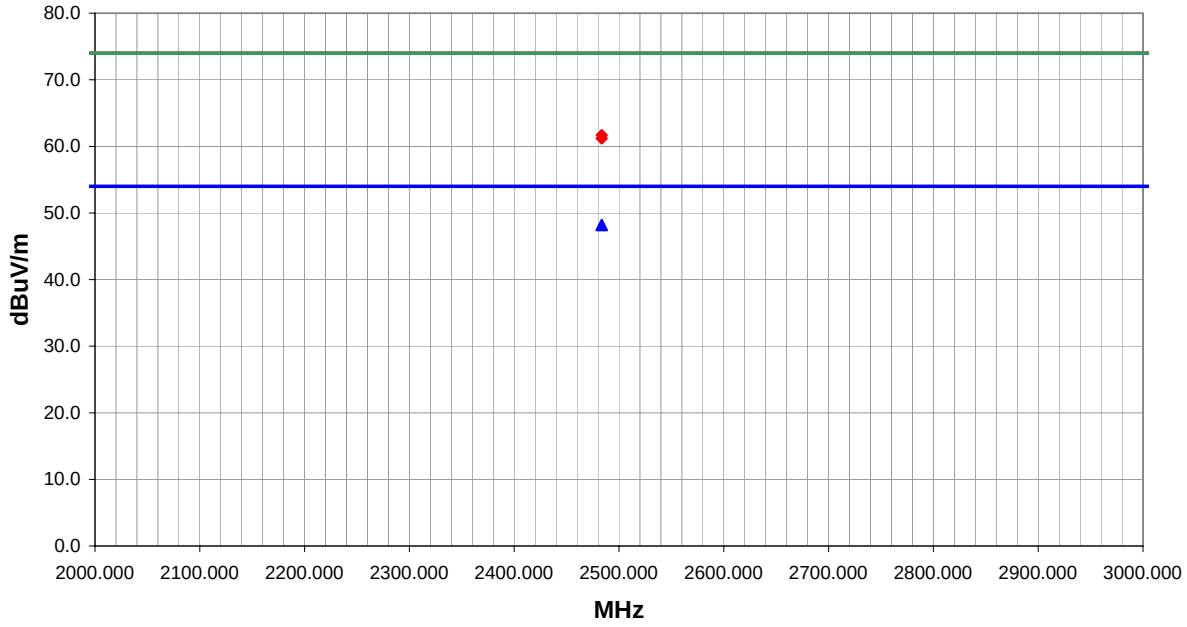
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	**Run #**
Pass	48

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.500	27.2	1.0	263.0	1.2	3.0	20.0	V-Horn	AV	0.0	48.2	54.0	-5.8	High Channel
2483.500	27.2	1.0	101.0	3.1	3.0	20.0	H-Horn	AV	0.0	48.2	54.0	-5.8	High Channel
2483.500	40.7	1.0	101.0	3.1	3.0	20.0	H-Horn	PK	0.0	61.7	74.0	-12.3	High Channel
2483.500	40.2	1.0	263.0	1.2	3.0	20.0	V-Horn	PK	0.0	61.2	74.0	-12.8	High Channel

NORTHWEST
EMC

OATS DATA SHEET

REV
df3.11
06/23/2003

EUT:	802MIG2 Radio			**Work Order:**	INMC0088
Serial Number:	none			**Date:**	07/31/03
Customer:	INTERMEC Technologies			**Temperature:**	77
Attendees:				**Humidity:**	35%
Cust. Ref. No.:				**Barometric Pressure**	29.9
Tested by:	Rod Peloquin	**Power:**	120VAC, 60Hz	**Job Site:**	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	**Year:**	2003
Method:	ANSI C63.4	**Year:**	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 071122 Corner Reflector.

EUT OPERATING MODES

802.11(g), See comments for channel, Stand alone.

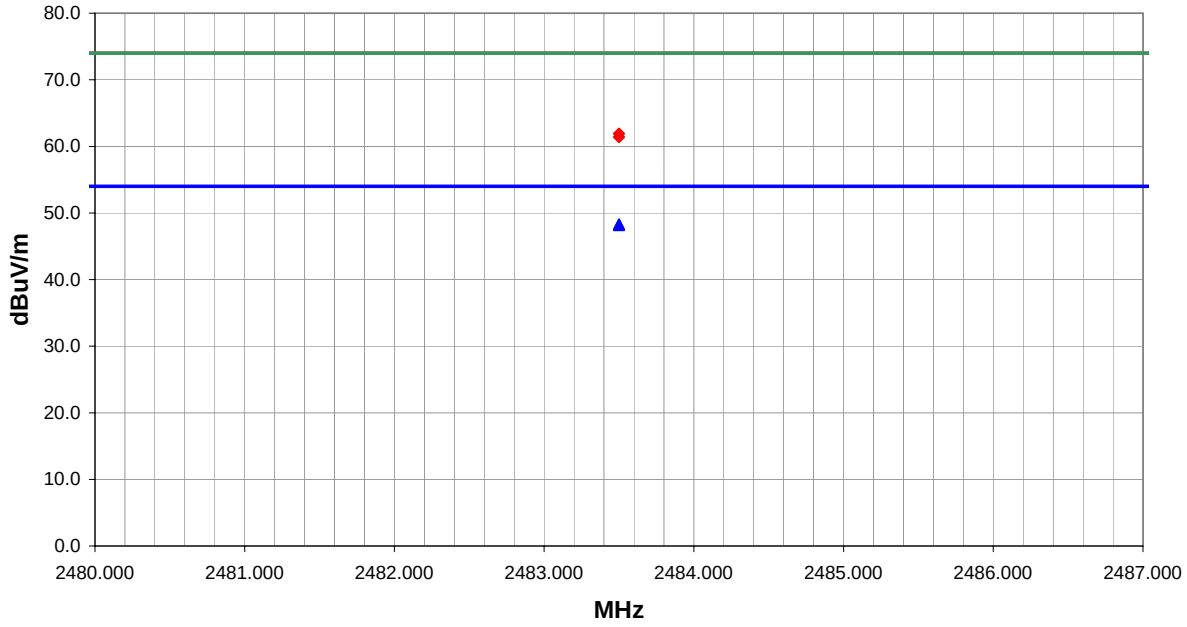
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	**Run #**
Pass	49

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.500	27.3	1.0	357.0	1.3	3.0	20.0	H-Horn	AV	0.0	48.3	54.0	-5.7	High Channel
2483.500	27.2	1.0	134.0	1.2	3.0	20.0	V-Horn	AV	0.0	48.2	54.0	-5.8	High Channel
2483.500	40.9	1.0	134.0	1.2	3.0	20.0	V-Horn	PK	0.0	61.9	74.0	-12.1	High Channel
2483.500	40.4	1.0	357.0	1.3	3.0	20.0	H-Horn	PK	0.0	61.4	74.0	-12.6	High Channel

NORTHWEST EMC

OATS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/31/03
Customer:	INTERMEC Technologies			Temperature:	77
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Rod Peloquin	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 071122 Corner Reflector.

EUT OPERATING MODES

802.11(g), See comments for channel, Stand alone.

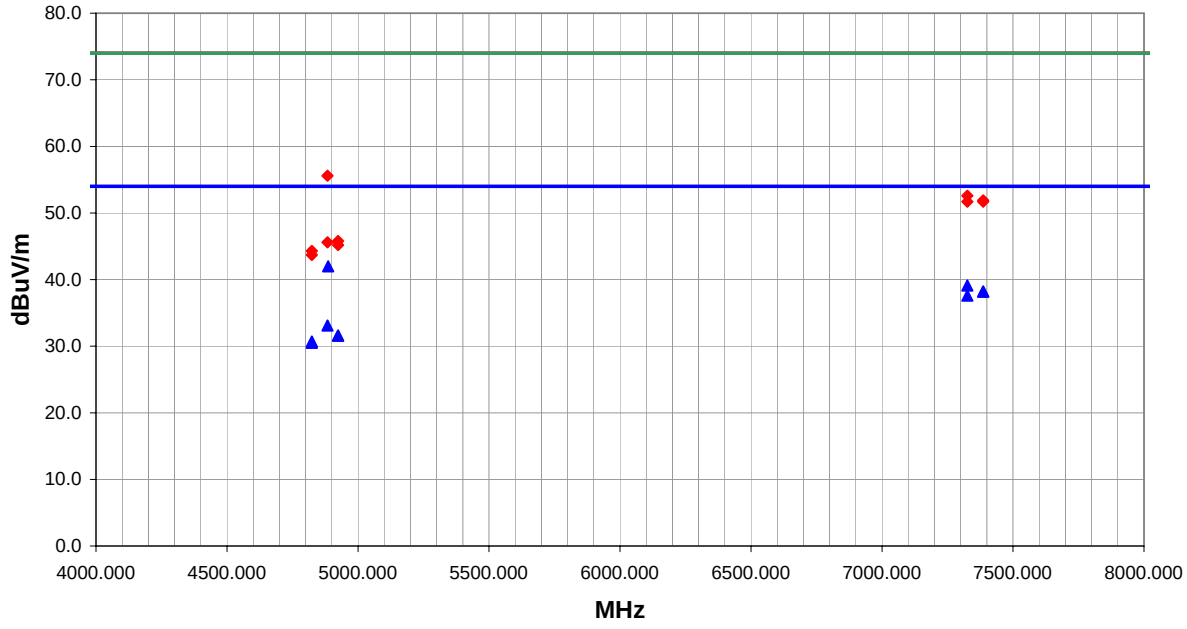
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	52

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
4885.969	35.8	6.2	129.0	1.1	3.0	0.0	V-Horn	AV	0.0	42.0	54.0	-12.0	Mid channel
7326.000	28.1	11.0	90.0	1.2	3.0	0.0	V-Horn	AV	0.0	39.1	54.0	-14.9	Mid channel
7386.000	27.0	11.2	42.0	1.3	3.0	0.0	H-Horn	AV	0.0	38.2	54.0	-15.8	High channel
7386.000	27.0	11.2	45.0	1.2	3.0	0.0	V-Horn	AV	0.0	38.2	54.0	-15.8	High channel
7326.000	26.6	11.0	207.0	1.3	3.0	0.0	H-Horn	AV	0.0	37.6	54.0	-16.4	Mid channel
4883.949	26.9	6.2	128.0	1.3	3.0	0.0	H-Horn	AV	0.0	33.1	54.0	-20.9	Mid channel
4923.995	25.4	6.2	89.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.6	54.0	-22.4	High channel
4923.995	25.4	6.2	145.0	3.2	3.0	0.0	V-Horn	AV	0.0	31.6	54.0	-22.4	High channel
4824.000	24.8	5.9	23.0	2.0	3.0	0.0	V-Horn	AV	0.0	30.7	54.0	-23.3	Low channel
4824.000	24.6	5.9	86.0	1.3	3.0	0.0	H-Horn	AV	0.0	30.5	54.0	-23.5	Low channel
4883.949	49.4	6.2	129.0	1.1	3.0	0.0	V-Horn	PK	0.0	55.6	74.0	-18.4	Mid channel
7326.000	41.6	11.0	90.0	1.2	3.0	0.0	V-Horn	PK	0.0	52.6	74.0	-21.4	Mid channel
7386.000	40.7	11.2	45.0	1.2	3.0	0.0	V-Horn	PK	0.0	51.9	74.0	-22.1	High channel
7326.000	40.7	11.0	207.0	1.3	3.0	0.0	H-Horn	PK	0.0	51.7	74.0	-22.3	Mid channel
7386.000	40.5	11.2	42.0	1.3	3.0	0.0	H-Horn	PK	0.0	51.7	74.0	-22.3	High channel
4923.995	39.6	6.2	145.0	3.2	3.0	0.0	V-Horn	PK	0.0	45.8	74.0	-28.2	High channel
4883.949	39.4	6.2	128.0	1.3	3.0	0.0	H-Horn	PK	0.0	45.6	74.0	-28.4	Mid channel
4923.995	39.0	6.2	89.0	1.3	3.0	0.0	H-Horn	PK	0.0	45.2	74.0	-28.8	High channel
4824.000	38.4	5.9	23.0	2.0	3.0	0.0	V-Horn	PK	0.0	44.3	74.0	-29.7	Low channel
4824.000	37.8	5.9	86.0	1.3	3.0	0.0	H-Horn	PK	0.0	43.7	74.0	-30.3	Low channel

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.00 08/12/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	09/26/03
Customer:	INTERMEC Technologies			Temperature:	74
Attendees:				Humidity:	32%
Cust. Ref. No.:				Barometric Pressure	30.02
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22. 071122 Corner Reflector on 802.11(a) radio and 063365 Yagi on 802.11(b) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 64 and 802.11(b), 11Mbit, Ch 2.

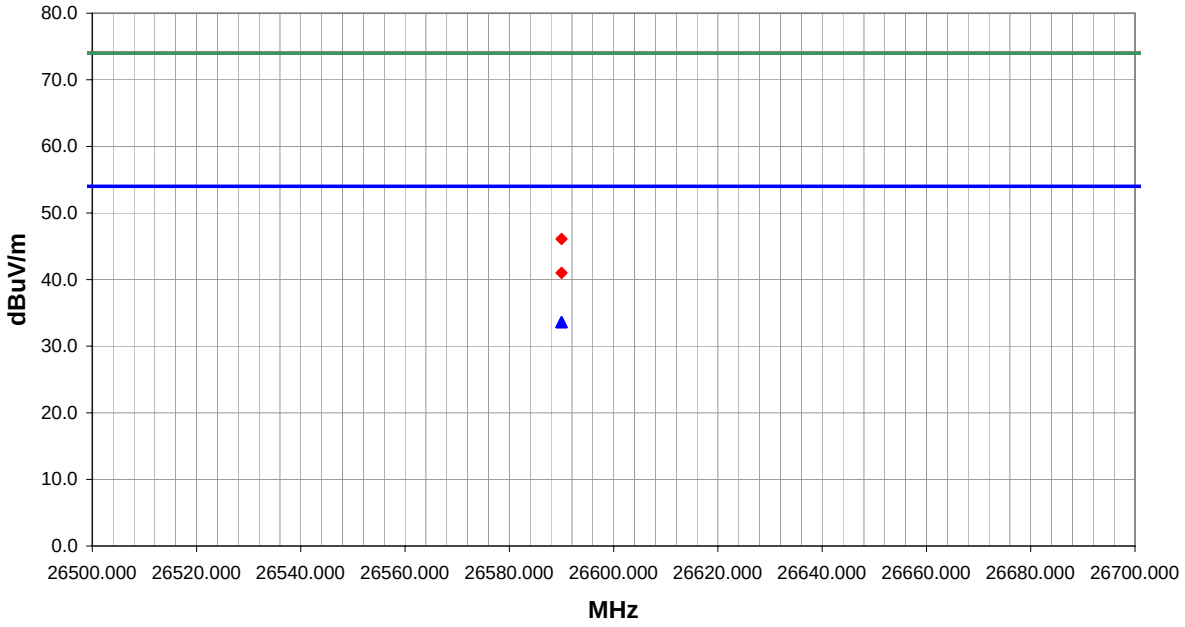
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	24

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
26590.000	45.0	-11.4	0.0	1.1	3.0	0.0	V-High Horr	AV	0.0	33.6	54.0	-20.4
26590.000	45.0	-11.4	0.0	1.1	3.0	0.0	H-High Horr	AV	0.0	33.6	54.0	-20.4
26590.000	57.5	-11.4	0.0	1.1	3.0	0.0	H-High Horr	PK	0.0	46.1	74.0	-27.9
26590.000	52.4	-11.4	0.0	1.1	3.0	0.0	V-High Horr	PK	0.0	41.0	74.0	-33.0

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.00 08/12/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	09/26/03
Customer:	INTERMEC Technologies			Temperature:	74
Attendees:				Humidity:	32%
Cust. Ref. No.:				Barometric Pressure	30.02
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22. 071122 Corner Reflector on 802.11(a) radio and 063365 Yagi on 802.11(g) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 64 and 802.11(g), 6Mbit, Ch 2.

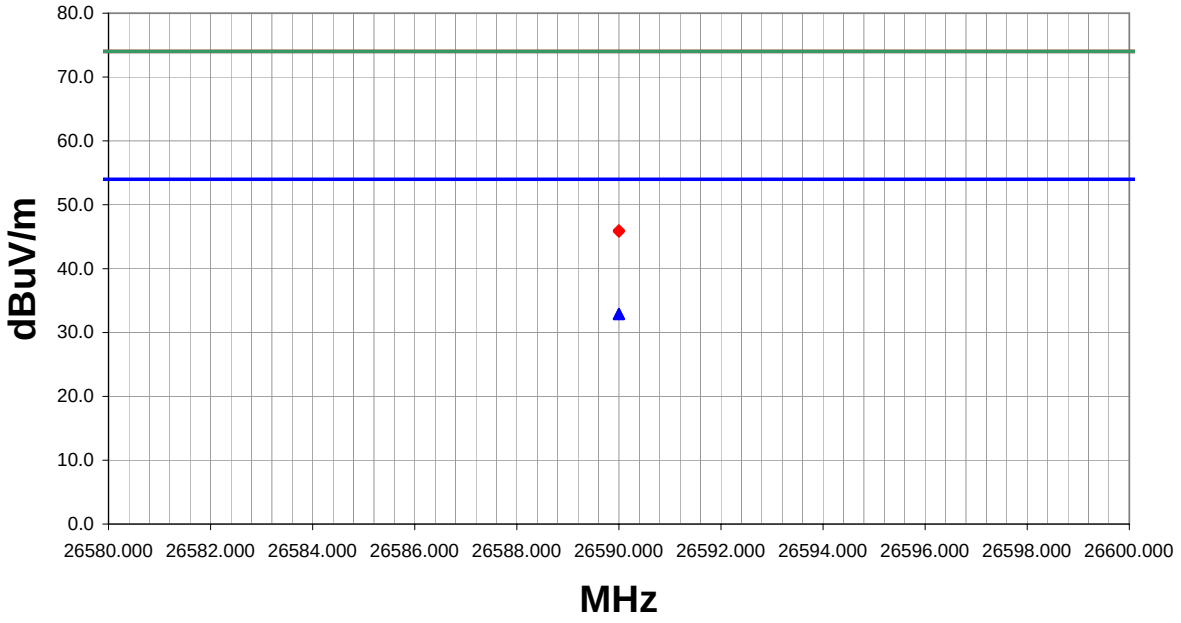
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	26

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
26590.000	44.3	-11.4	360.0	1.1	3.0	0.0	V-High Horr	AV	0.0	32.9	54.0	-21.1
26590.000	44.3	-11.4	360.0	1.1	3.0	0.0	H-High Horr	AV	0.0	32.9	54.0	-21.1
26590.000	57.4	-11.4	360.0	1.1	3.0	0.0	H-High Horr	PK	0.0	46.0	74.0	-28.0
26590.000	57.2	-11.4	360.0	1.1	3.0	0.0	V-High Horr	PK	0.0	45.8	74.0	-28.2

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.00 08/12/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	09/26/03
Customer:	INTERMEC Technologies			Temperature:	74
Attendees:				Humidity:	32%
Cust. Ref. No.:				Barometric Pressure	30.02
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22. 071122 Corner Reflector on 802.11(a) radio and 063365 Yagi on 802.11(b) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 60 and 802.11(b), 11Mbit, Ch 8.

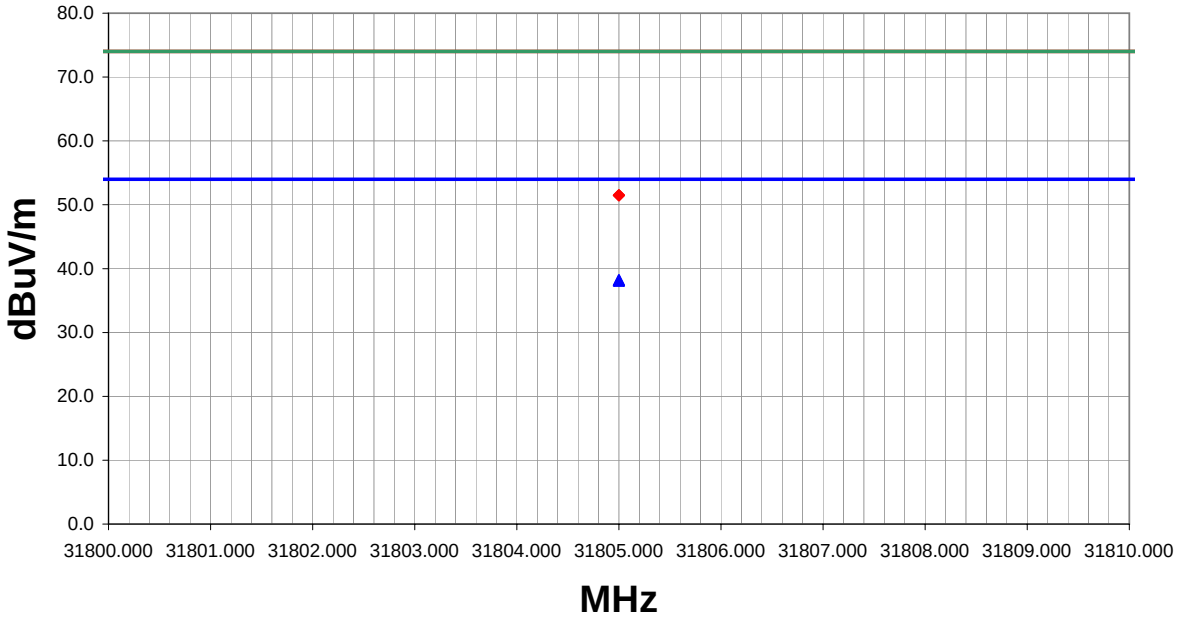
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	28

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
31805.000	45.4	-7.2	0.0	1.1	3.0	0.0	H-High Horr	AV	0.0	38.2	54.0	-15.8
31805.000	45.3	-7.2	0.0	1.1	3.0	0.0	V-High Horr	AV	0.0	38.1	54.0	-15.9
31805.000	58.7	-7.2	0.0	1.1	3.0	0.0	V-High Horr	PK	0.0	51.5	74.0	-22.5
31805.000	58.7	-7.2	0.0	1.1	3.0	0.0	H-High Horr	PK	0.0	51.5	74.0	-22.5

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.00 08/12/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	09/26/03
Customer:	INTERMEC Technologies			Temperature:	74
Attendees:				Humidity:	32%
Cust. Ref. No.:				Barometric Pressure	30.02
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22. 071122 Corner Reflector on 802.11(a) radio and 063365 Yagi on 802.11(g) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 60 and 802.11(g), 6Mbit, Ch 8.

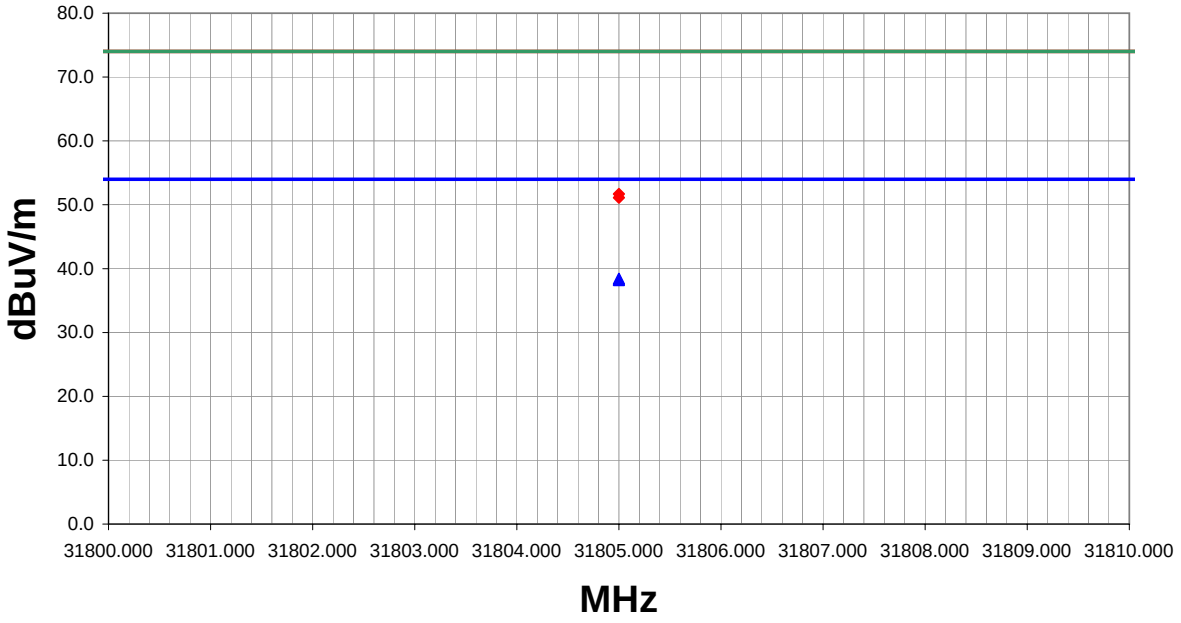
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	30

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
31805.000	45.6	-7.2	0.0	1.1	3.0	0.0	V-High Horr	AV	0.0	38.4	54.0	-15.6
31805.000	45.4	-7.2	0.0	1.1	3.0	0.0	H-High Horr	AV	0.0	38.2	54.0	-15.8
31805.000	58.9	-7.2	0.0	1.1	3.0	0.0	H-High Horr	PK	0.0	51.7	74.0	-22.3
31805.000	58.3	-7.2	0.0	1.1	3.0	0.0	V-High Horr	PK	0.0	51.1	74.0	-22.9

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.00 08/12/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	09/26/03
Customer:	INTERMEC Technologies			Temperature:	74
Attendees:				Humidity:	32%
Cust. Ref. No.:				Barometric Pressure	30.02
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22. Dipole on 802.11(a) radio and 063365 Yagi on 802.11(b) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 36 and 802.11(b), 11Mbit, Ch 2.

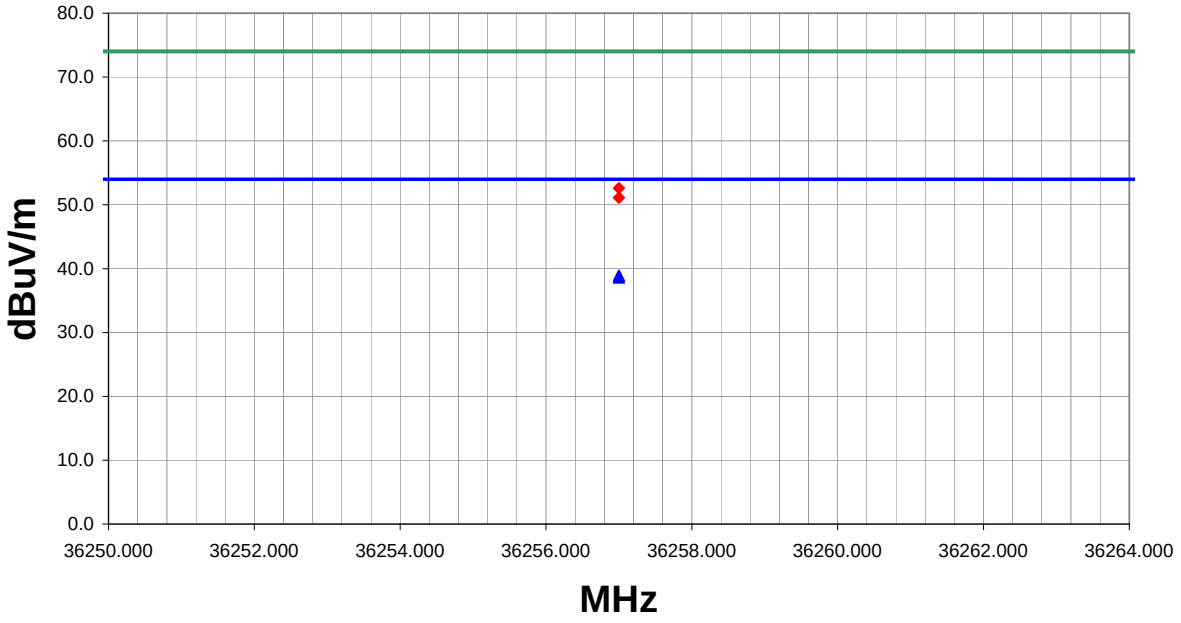
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	10

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
36257.000	43.8	-4.9	0.0	1.1	3.0	0.0	H-High Horr	AV	0.0	38.9	54.0	-15.1
36257.000	43.5	-4.9	0.0	1.1	3.0	0.0	V-High Horr	AV	0.0	38.6	54.0	-15.4
36257.000	57.5	-4.9	0.0	1.1	3.0	0.0	H-High Horr	PK	0.0	52.6	74.0	-21.4
36257.000	56.0	-4.9	0.0	1.1	3.0	0.0	V-High Horr	PK	0.0	51.1	74.0	-22.9

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.00 08/12/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	09/26/03
Customer:	INTERMEC Technologies			Temperature:	74
Attendees:				Humidity:	32%
Cust. Ref. No.:				Barometric Pressure	30.02
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22. Dipole on 802.11(a) radio and 063365 Yagi on 802.11(g) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 36 and 802.11(g), 6Mbit, Ch 2.

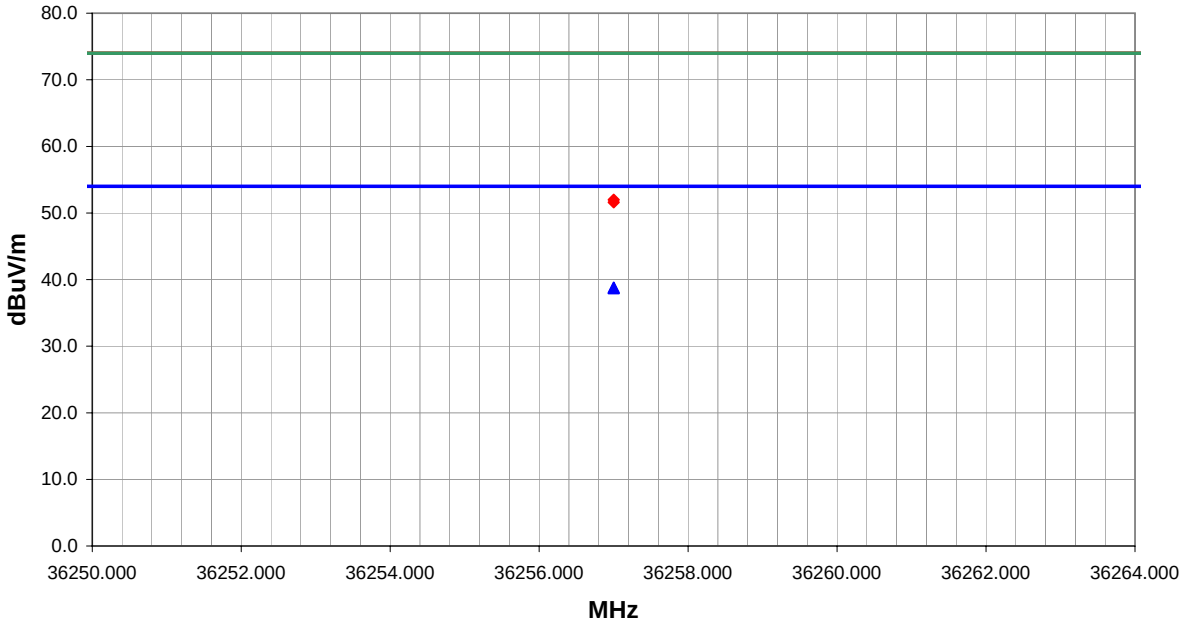
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	34

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
36257.000	43.7	-4.9	0.0	1.1	3.0	0.0	V-High Horr	AV	0.0	38.8	54.0	-15.2
36257.000	43.6	-4.9	0.0	1.1	3.0	0.0	H-High Horr	AV	0.0	38.7	54.0	-15.3
36257.000	56.9	-4.9	0.0	1.1	3.0	0.0	H-High Horr	PK	0.0	52.0	74.0	-22.0
36257.000	56.5	-4.9	0.0	1.1	3.0	0.0	V-High Horr	PK	0.0	51.6	74.0	-22.4

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.00 08/12/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	09/30/03
Customer:	INTERMEC Technologies			Temperature:	74
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22. Dipole on 802.11(a) radio and 063365 Yagi on 802.11(b) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 36 and 802.11(b), 11Mbit, Ch 11.

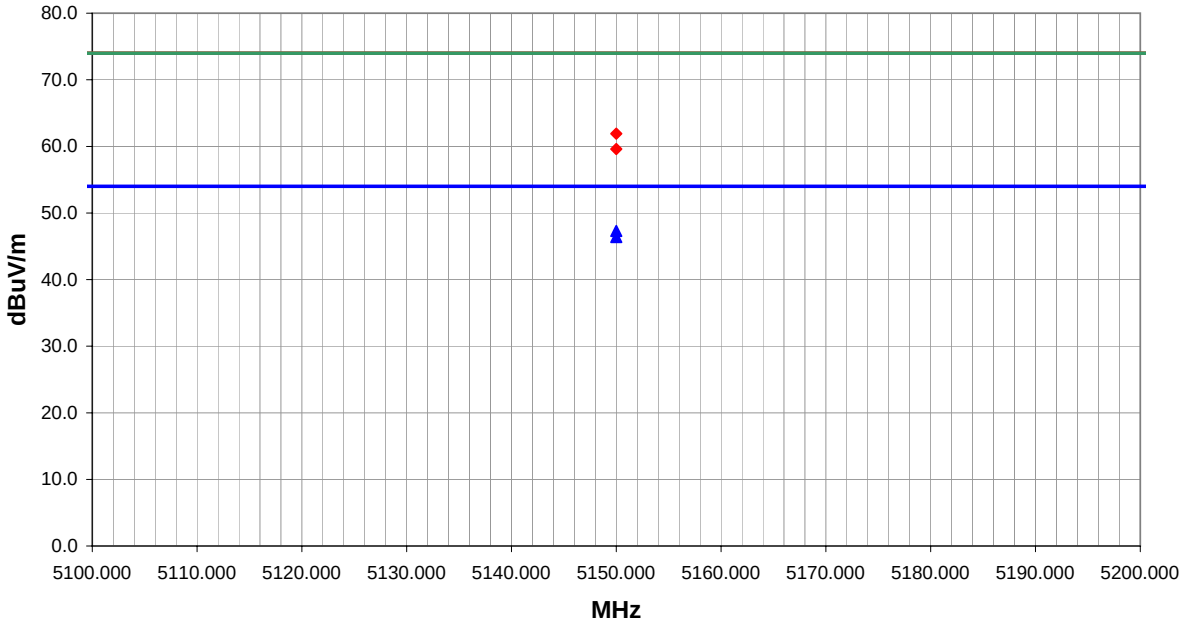
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	56

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
5150.000	21.5	5.8	139.0	1.3	3.0	20.0	V-Horn	AV	0.0	47.3	54.0	-6.7
5150.000	20.6	5.8	360.0	1.0	3.0	20.0	H-Horn	AV	0.0	46.4	54.0	-7.6
5150.000	36.1	5.8	139.0	1.3	3.0	20.0	V-Horn	PK	0.0	61.9	74.0	-12.1
5150.000	33.8	5.8	360.0	1.0	3.0	20.0	H-Horn	PK	0.0	59.6	74.0	-14.4

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.00 08/12/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	09/30/03
Customer:	INTERMEC Technologies			Temperature:	74
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22. Dipole on 802.11(a) radio and 063365 Yagi on 802.11(g) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 36 and 802.11(g), 6Mbit, Ch 11.

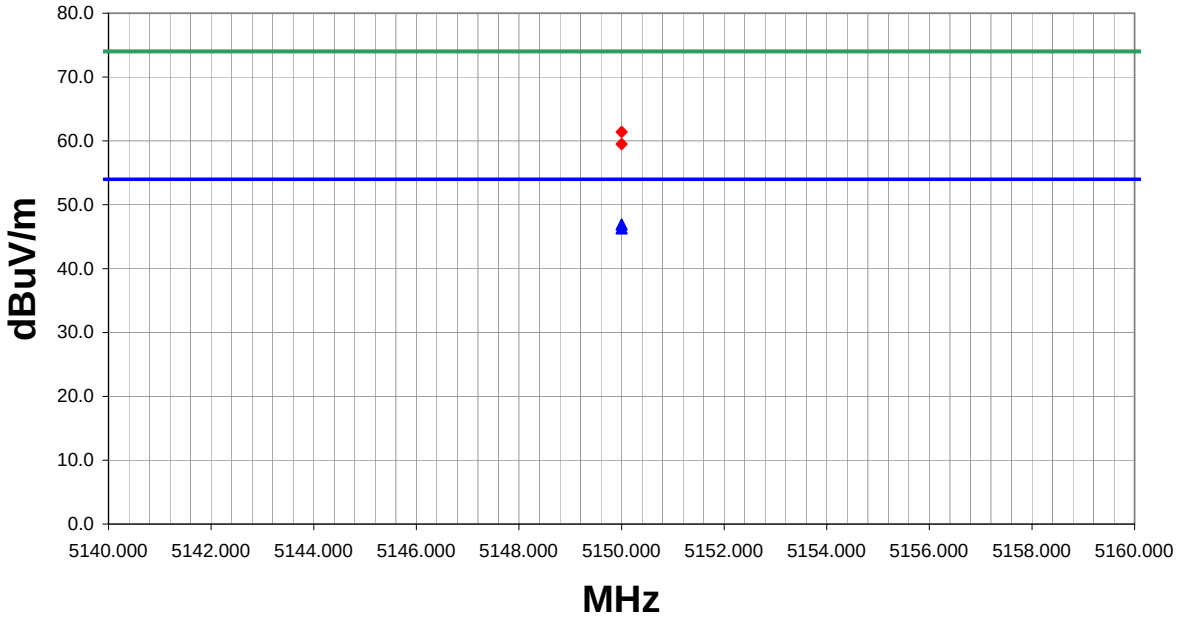
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	58

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
5150.000	21.1	5.8	140.0	1.3	3.0	20.0	V-Horn	AV	0.0	46.9	54.0	-7.1
5150.000	20.5	5.8	360.0	1.0	3.0	20.0	H-Horn	AV	0.0	46.3	54.0	-7.7
5150.000	35.6	5.8	140.0	1.3	3.0	20.0	V-Horn	PK	0.0	61.4	74.0	-12.6
5150.000	33.7	5.8	360.0	1.0	3.0	20.0	H-Horn	PK	0.0	59.5	74.0	-14.5

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.00 08/12/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	10/01/03
Customer:	INTERMEC Technologies			Temperature:	74
Attendees:				Humidity:	38%
Cust. Ref. No.:				Barometric Pressure	30.01
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22. 071122 Corner Reflector on 802.11(a) radio and 063365 Yagi on 802.11(g) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 64 and 802.11(g), 6Mbit, Ch 11.

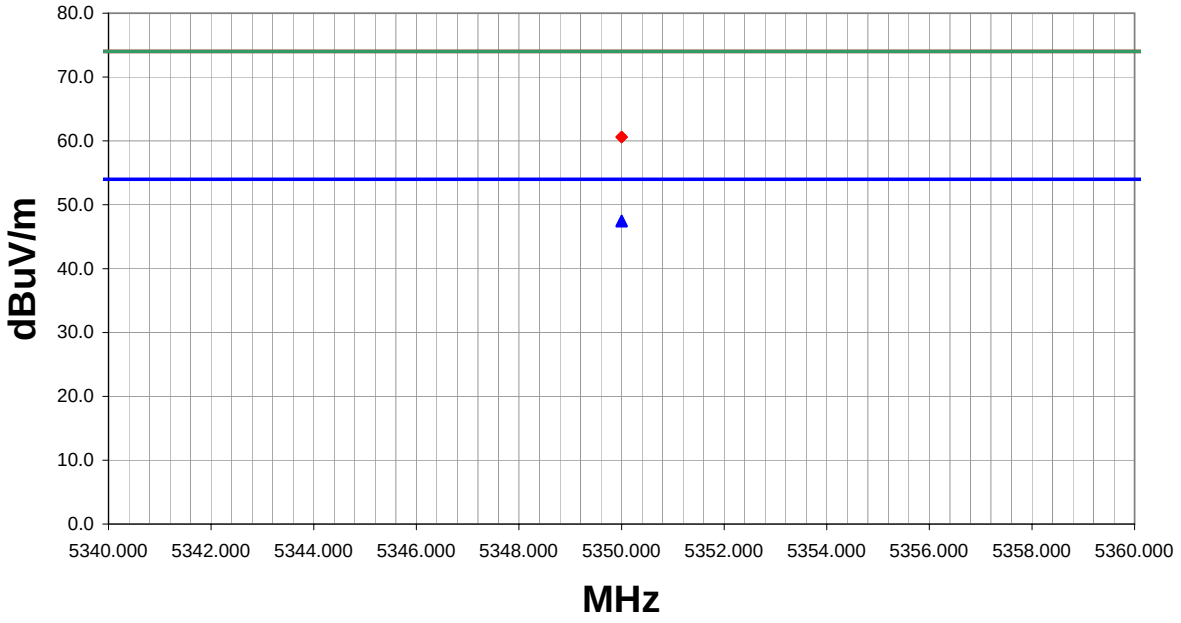
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	60

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
5350.000	21.1	6.4	360.0	1.0	3.0	20.0	V-Horn	AV	0.0	47.5	54.0	-6.5
5350.000	21.0	6.4	0.0	1.0	3.0	20.0	H-Horn	AV	0.0	47.4	54.0	-6.6
5350.000	34.2	6.4	0.0	1.0	3.0	20.0	H-Horn	PK	0.0	60.6	74.0	-13.4
5350.000	34.2	6.4	360.0	1.0	3.0	20.0	V-Horn	PK	0.0	60.6	74.0	-13.4

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.00 08/12/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	10/01/03
Customer:	INTERMEC Technologies			Temperature:	74
Attendees:				Humidity:	38%
Cust. Ref. No.:				Barometric Pressure	30.01
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22. 071122 Corner Reflector on 802.11(a) radio and 063365 Yagi on 802.11(b) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 64 and 802.11(b), 11Mbit, Ch 11.

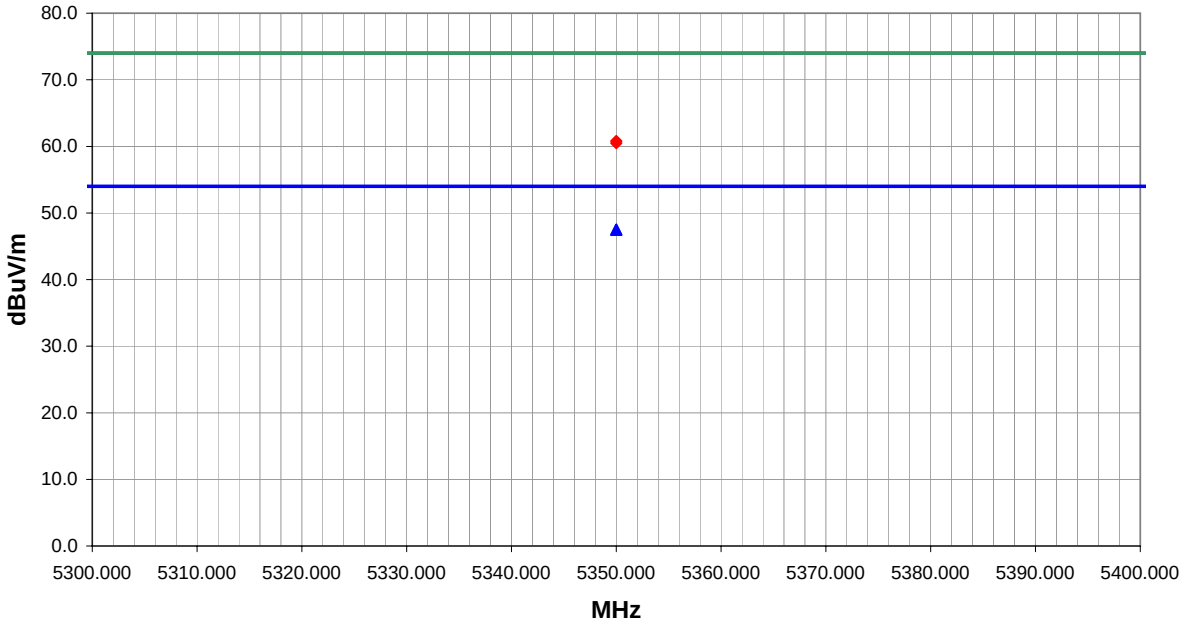
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	62

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
5350.000	21.1	6.4	360.0	1.0	3.0	20.0	H-Horn	AV	0.0	47.5	54.0	-6.5
5350.000	21.1	6.4	0.0	1.0	3.0	20.0	V-Horn	AV	0.0	47.5	54.0	-6.5
5350.000	34.4	6.4	0.0	1.0	3.0	20.0	V-Horn	PK	0.0	60.8	74.0	-13.2
5350.000	34.1	6.4	360.0	1.0	3.0	20.0	H-Horn	PK	0.0	60.5	74.0	-13.5

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.01 10/02/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	10/03/03
Customer:	INTERMEC Technologies			Temperature:	75
Attendees:				Humidity:	43%
Cust. Ref. No.:				Barometric Pressure	29.82
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22. 071122 Corner Reflector on 802.11(a) radio and 063365 Yagi on 802.11(b) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 64 and 802.11(b), 11Mbit, Ch 11.

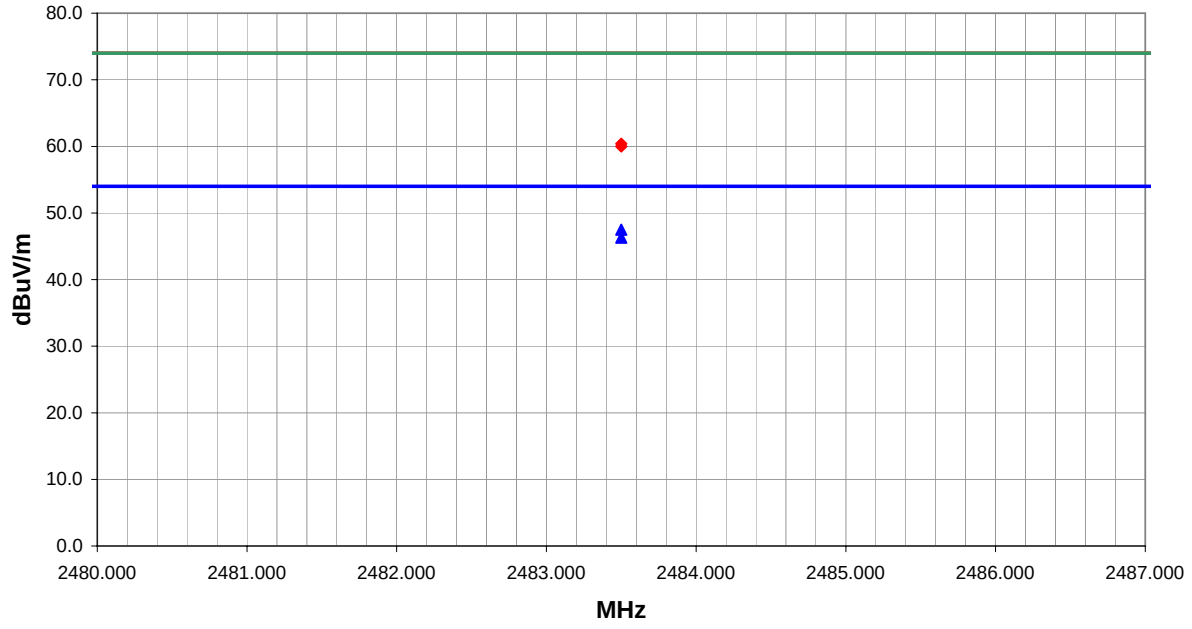
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	64

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
2483.500	29.0	-1.5	117.0	1.3	3.0	20.0	H-Horn	AV	0.0	47.5	54.0	-6.5
2483.500	27.8	-1.5	173.0	1.2	3.0	20.0	V-Horn	AV	0.0	46.3	54.0	-7.7
2483.500	41.9	-1.5	117.0	1.3	3.0	20.0	H-Horn	PK	0.0	60.4	74.0	-13.6
2483.500	41.5	-1.5	173.0	1.2	3.0	20.0	V-Horn	PK	0.0	60.0	74.0	-14.0

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.01 10/02/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	10/03/03
Customer:	INTERMEC Technologies			Temperature:	75
Attendees:				Humidity:	43%
Cust. Ref. No.:				Barometric Pressure	29.82
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22. 071122 Corner Reflector on 802.11(a) radio and 063365 Yagi on 802.11(g) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 64 and 802.11(g), 6Mbit, Ch 11.

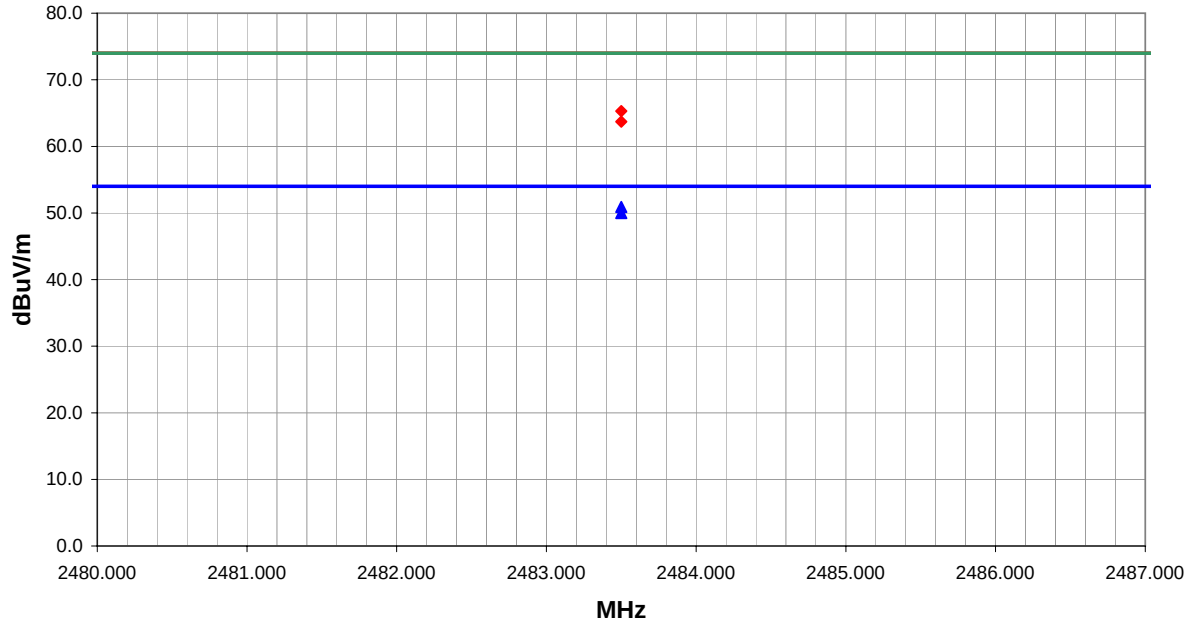
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	66

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
2483.500	32.4	-1.5	116.0	1.3	3.0	20.0	H-Horn	AV	0.0	50.9	54.0	-3.1
2483.500	31.5	-1.5	84.0	1.2	3.0	20.0	V-Horn	AV	0.0	50.0	54.0	-4.0
2483.500	46.8	-1.5	116.0	1.3	3.0	20.0	H-Horn	PK	0.0	65.3	74.0	-8.7
2483.500	45.2	-1.5	84.0	1.2	3.0	20.0	V-Horn	PK	0.0	63.7	74.0	-10.3

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.01 10/02/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	10/07/03
Customer:	INTERMEC Technologies			Temperature:	75
Attendees:				Humidity:	42%
Cust. Ref. No.:				Barometric Pressure	28.88
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22. 063365 Yagi on both radios.

EUT OPERATING MODES

802.11(b), 11Mbit, Ch 11 and 802.11(b), 11Mbit, Ch 6.

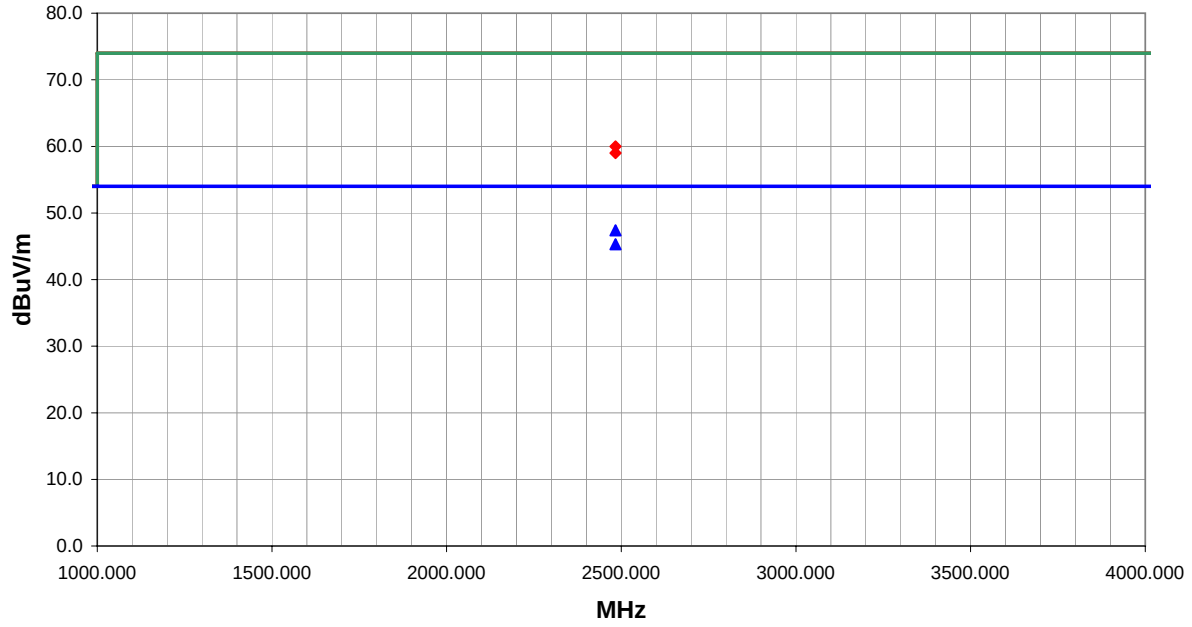
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	71

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
2483.500	28.9	-1.5	190.0	1.3	3.0	20.0	H-Horn	AV	0.0	47.4	54.0	-6.6
2483.500	26.8	-1.5	232.0	1.7	3.0	20.0	V-Horn	AV	0.0	45.3	54.0	-8.7
2483.500	41.5	-1.5	190.0	1.3	3.0	20.0	H-Horn	PK	0.0	60.0	74.0	-14.0
2483.500	40.5	-1.5	232.0	1.7	3.0	20.0	V-Horn	PK	0.0	59.0	74.0	-15.0

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.01 10/02/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	10/07/03
Customer:	INTERMEC Technologies			Temperature:	75
Attendees:				Humidity:	42%
Cust. Ref. No.:				Barometric Pressure	28.88
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22. 063365 Yagi on both radios.

EUT OPERATING MODES

802.11(b), 11Mbit, Ch 11 and 802.11(g), 6Mbit, Ch 6.

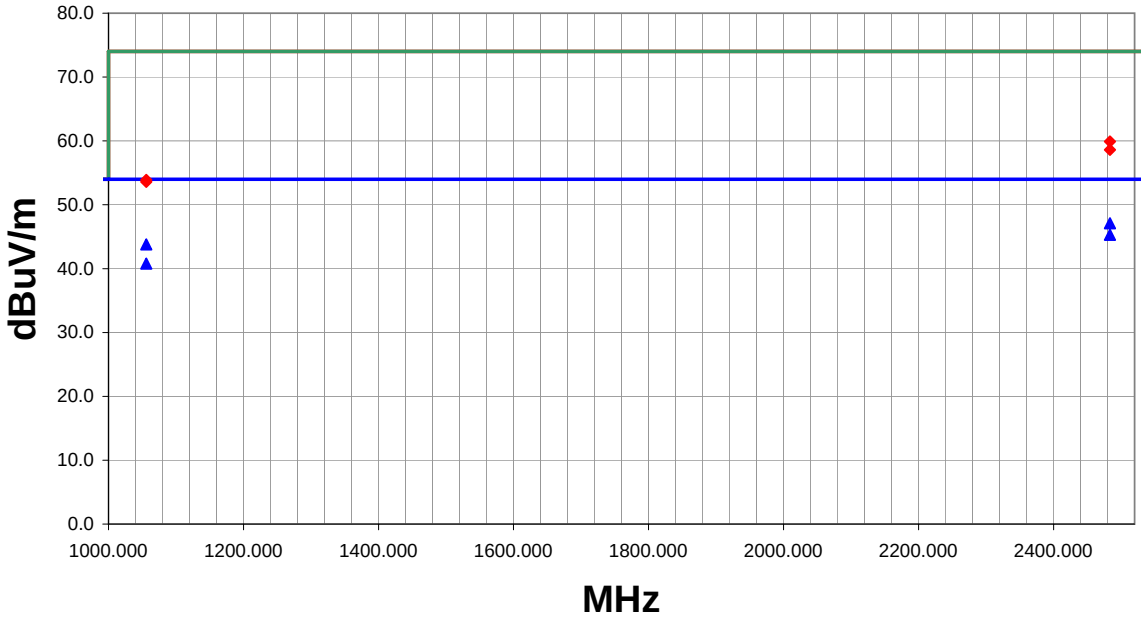
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	72

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
2483.500	28.6	-1.5	188.0	1.3	3.0	20.0	H-Horn	AV	0.0	47.1	54.0	-6.9
2483.500	26.8	-1.5	278.0	1.2	3.0	20.0	V-Horn	AV	0.0	45.3	54.0	-8.7
1055.981	32.5	-8.7	12.0	2.3	3.0	20.0	V-Horn	AV	0.0	43.8	54.0	-10.2
1055.981	29.5	-8.7	133.0	1.7	3.0	20.0	H-Horn	AV	0.0	40.8	54.0	-13.2
2483.500	41.4	-1.5	188.0	1.3	3.0	20.0	H-Horn	PK	0.0	59.9	74.0	-14.1
2483.500	40.1	-1.5	278.0	1.2	3.0	20.0	V-Horn	PK	0.0	58.6	74.0	-15.4
1055.981	42.6	-8.7	12.0	2.3	3.0	20.0	V-Horn	PK	0.0	53.9	74.0	-20.1
1055.981	42.3	-8.7	133.0	1.7	3.0	20.0	H-Horn	PK	0.0	53.6	74.0	-20.4

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.01 10/02/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	10/07/03
Customer:	INTERMEC Technologies			Temperature:	75
Attendees:				Humidity:	42%
Cust. Ref. No.:				Barometric Pressure	28.88
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22. 063365 Yagi on both radios.

EUT OPERATING MODES

802.11(g), 6Mbit, Ch 11 and 802.11(g), 6Mbit, Ch 6.

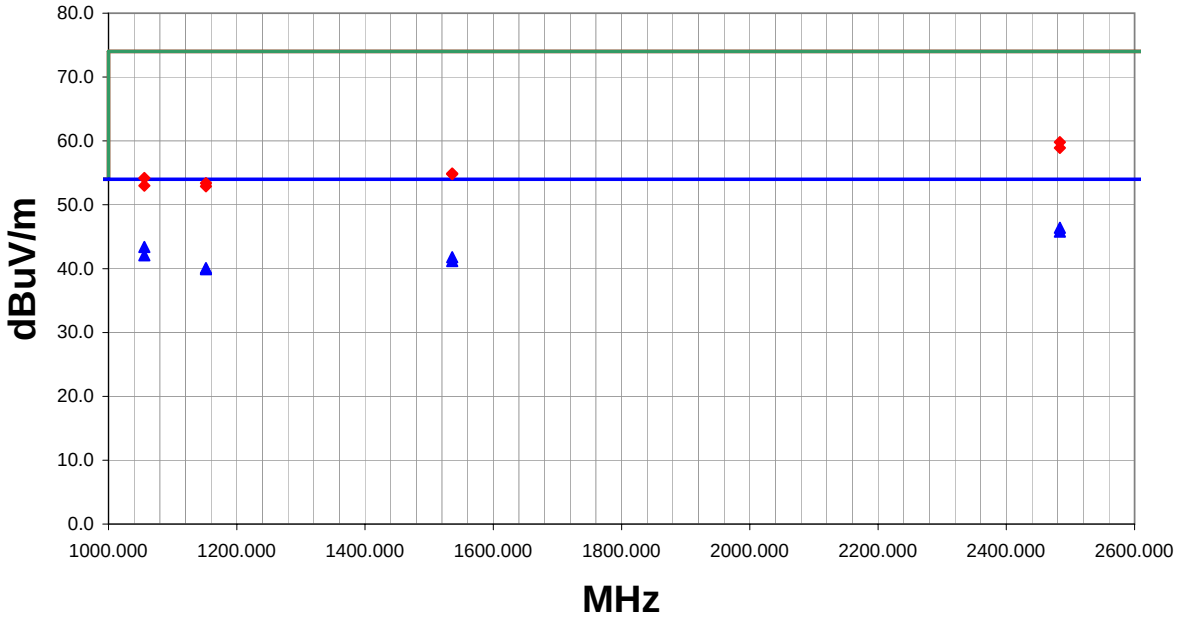
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	73

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
2483.500	27.9	-1.5	200.0	1.2	3.0	20.0	V-Horn	AV	0.0	46.4	54.0	-7.6
2483.500	27.3	-1.5	241.0	1.7	3.0	20.0	H-Horn	AV	0.0	45.8	54.0	-8.2
1055.981	32.1	-8.7	348.0	1.2	3.0	20.0	V-Horn	AV	0.0	43.4	54.0	-10.6
1055.981	30.8	-8.7	47.0	1.3	3.0	20.0	H-Horn	AV	0.0	42.1	54.0	-11.9
1535.986	28.1	-6.3	360.0	1.2	3.0	20.0	V-Horn	AV	0.0	41.8	54.0	-12.2
1535.986	27.5	-6.3	337.0	3.2	3.0	20.0	H-Horn	AV	0.0	41.2	54.0	-12.8
1151.990	28.4	-8.3	189.0	1.2	3.0	20.0	V-Horn	AV	0.0	40.1	54.0	-13.9
1151.990	28.2	-8.3	16.0	1.3	3.0	20.0	H-Horn	AV	0.0	39.9	54.0	-14.1
2483.500	41.3	-1.5	241.0	1.7	3.0	20.0	H-Horn	PK	0.0	59.8	74.0	-14.2
2483.500	40.4	-1.5	200.0	1.2	3.0	20.0	V-Horn	PK	0.0	58.9	74.0	-15.1
1535.986	41.2	-6.3	230.0	1.2	3.0	20.0	V-Horn	PK	0.0	54.9	74.0	-19.1
1535.986	41.1	-6.3	337.0	3.2	3.0	20.0	H-Horn	PK	0.0	54.8	74.0	-19.2
1055.981	42.9	-8.7	348.0	1.2	3.0	20.0	V-Horn	PK	0.0	54.2	74.0	-19.8
1151.990	41.7	-8.3	16.0	1.3	3.0	20.0	H-Horn	PK	0.0	53.4	74.0	-20.6
1055.981	41.7	-8.7	47.0	1.3	3.0	20.0	H-Horn	PK	0.0	53.0	74.0	-21.0
1151.990	41.2	-8.3	189.0	1.2	3.0	20.0	V-Horn	PK	0.0	52.9	74.0	-21.1

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.01 10/02/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	10/07/03
Customer:	INTERMEC Technologies			Temperature:	75
Attendees:				Humidity:	42%
Cust. Ref. No.:				Barometric Pressure	28.88
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22. 063365 Yagi on both radios.

EUT OPERATING MODES

802.11(g), 6Mbit, Ch 11 and 802.11(b), 11Mbit, Ch 6.

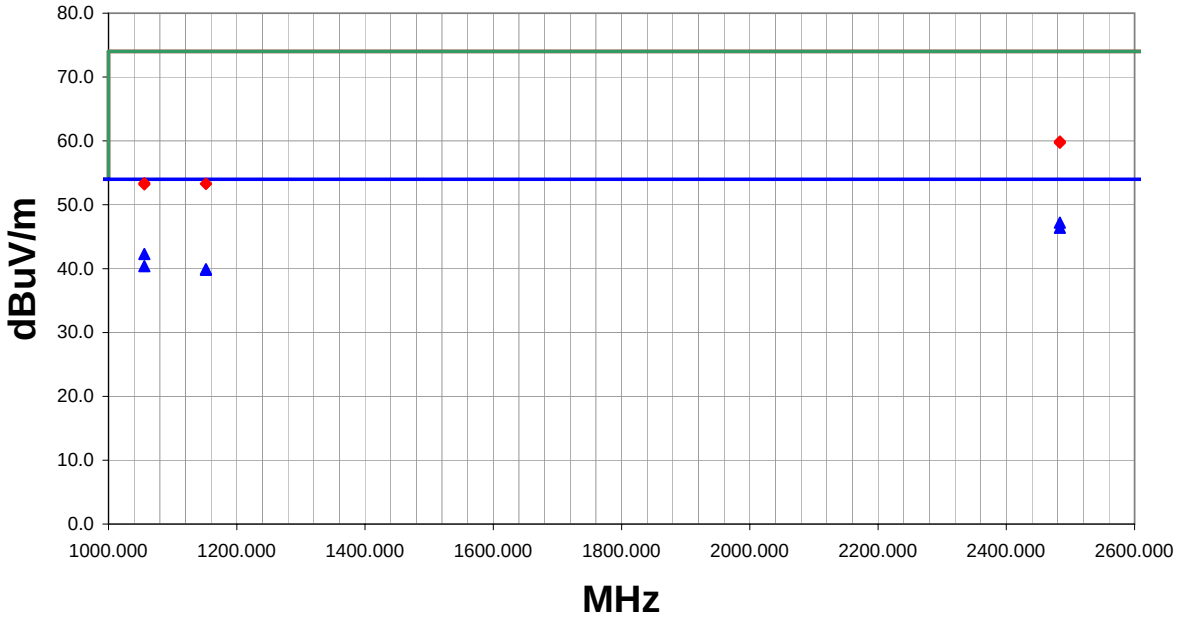
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	74

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
2483.500	28.7	-1.5	194.0	1.3	3.0	20.0	H-Horn	AV	0.0	47.2	54.0	-6.8
2483.500	27.9	-1.5	204.0	1.2	3.0	20.0	V-Horn	AV	0.0	46.4	54.0	-7.6
1055.981	31.0	-8.7	319.0	1.3	3.0	20.0	H-Horn	AV	0.0	42.3	54.0	-11.7
1055.981	29.1	-8.7	190.0	2.0	3.0	20.0	V-Horn	AV	0.0	40.4	54.0	-13.6
1151.990	28.2	-8.3	234.0	1.2	3.0	20.0	V-Horn	AV	0.0	39.9	54.0	-14.1
1151.990	28.1	-8.3	8.0	1.3	3.0	20.0	H-Horn	AV	0.0	39.8	54.0	-14.2
2483.500	41.4	-1.5	194.0	1.3	3.0	20.0	H-Horn	PK	0.0	59.9	74.0	-14.1
2483.500	41.2	-1.5	204.0	1.2	3.0	20.0	V-Horn	PK	0.0	59.7	74.0	-14.3
1055.981	42.1	-8.7	319.0	1.3	3.0	20.0	H-Horn	PK	0.0	53.4	74.0	-20.6
1151.990	41.6	-8.3	8.0	1.3	3.0	20.0	H-Horn	PK	0.0	53.3	74.0	-20.7
1151.990	41.6	-8.3	234.0	1.2	3.0	20.0	V-Horn	PK	0.0	53.3	74.0	-20.7
1055.981	41.9	-8.7	190.0	2.0	3.0	20.0	V-Horn	PK	0.0	53.2	74.0	-20.8

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.01 10/02/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	10/07/03
Customer:	INTERMEC Technologies			Temperature:	75
Attendees:				Humidity:	42%
Cust. Ref. No.:				Barometric Pressure	28.88
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22. 063365 Yagi on both radios.

EUT OPERATING MODES

802.11(g), 6Mbit, Ch 11 and 802.11(b), 11Mbit, Ch 6.

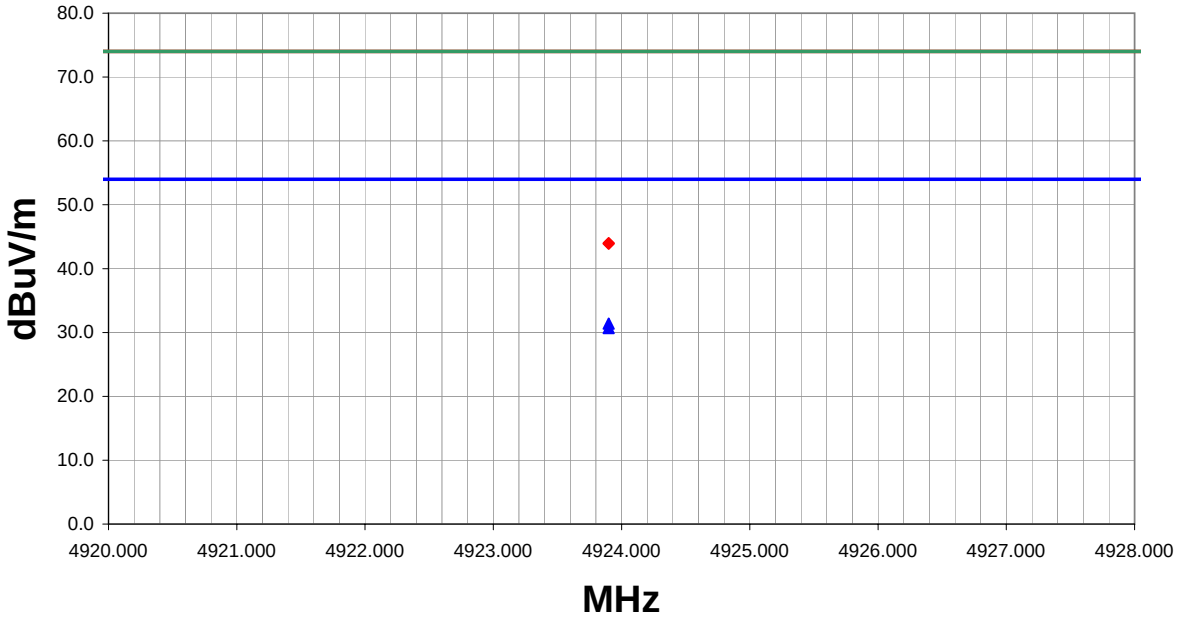
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	75

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
4923.900	26.8	4.6	320.0	1.3	3.0	0.0	V-Horn	AV	0.0	31.4	54.0	-22.6
4923.900	26.1	4.6	128.0	1.3	3.0	0.0	H-Horn	AV	0.0	30.7	54.0	-23.3
4923.900	39.4	4.6	320.0	1.3	3.0	0.0	V-Horn	PK	0.0	44.0	74.0	-30.0
4923.900	39.3	4.6	128.0	1.3	3.0	0.0	H-Horn	PK	0.0	43.9	74.0	-30.1

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.01 10/02/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	10/07/03
Customer:	INTERMEC Technologies			Temperature:	75
Attendees:				Humidity:	42%
Cust. Ref. No.:				Barometric Pressure	28.88
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22. 063365 Yagi on both radios.

EUT OPERATING MODES

802.11(b), 11Mbit, Ch 11 and 802.11(g), 6Mbit, Ch 6.

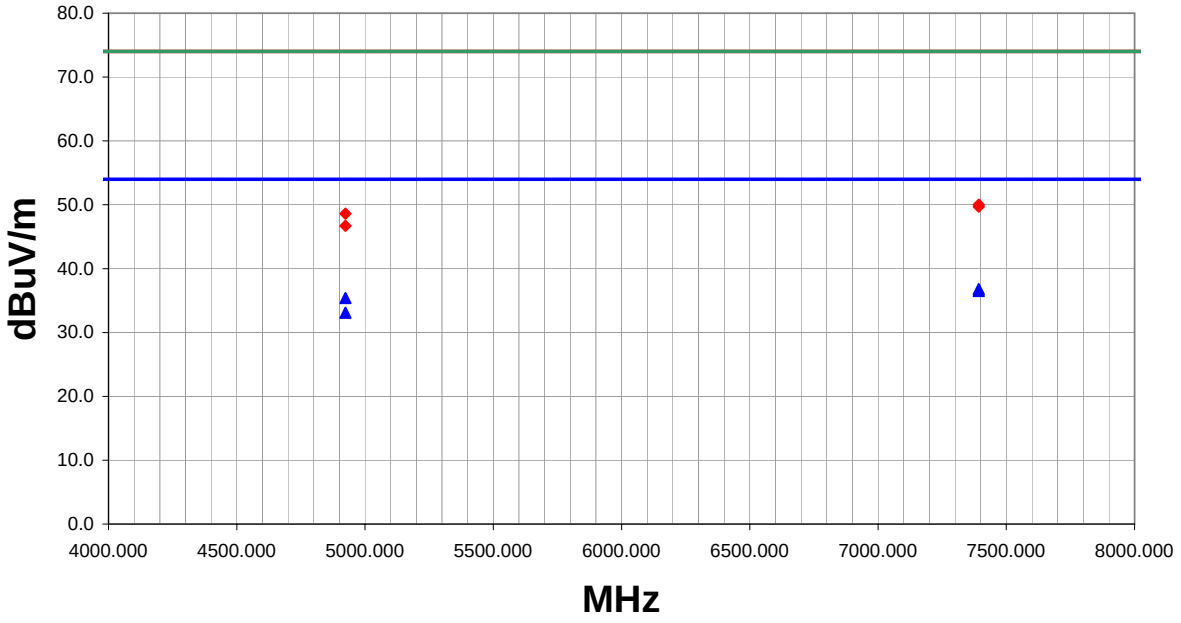
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	76

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
7392.600	27.1	9.7	302.0	1.2	3.0	0.0	V-Horn	AV	0.0	36.8	54.0	-17.2
7392.600	26.8	9.7	34.0	2.3	3.0	0.0	H-Horn	AV	0.0	36.5	54.0	-17.5
4923.900	30.8	4.6	310.0	1.6	3.0	0.0	H-Horn	AV	0.0	35.4	54.0	-18.6
4923.900	28.5	4.6	326.0	1.2	3.0	0.0	V-Horn	AV	0.0	33.1	54.0	-20.9
7392.600	40.3	9.7	34.0	2.3	3.0	0.0	H-Horn	PK	0.0	50.0	74.0	-24.0
7392.600	40.0	9.7	302.0	1.2	3.0	0.0	V-Horn	PK	0.0	49.7	74.0	-24.3
4923.900	44.0	4.6	310.0	1.6	3.0	0.0	H-Horn	PK	0.0	48.6	74.0	-25.4
4923.900	42.1	4.6	326.0	1.2	3.0	0.0	V-Horn	PK	0.0	46.7	74.0	-27.3

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.01 10/02/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	10/07/03
Customer:	INTERMEC Technologies			Temperature:	75
Attendees:				Humidity:	42%
Cust. Ref. No.:				Barometric Pressure	28.88
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22. 063365 Yagi on both radios.

EUT OPERATING MODES

802.11(b), 11Mbit, Ch 11 and 802.11(b), 11Mbit, Ch 6.

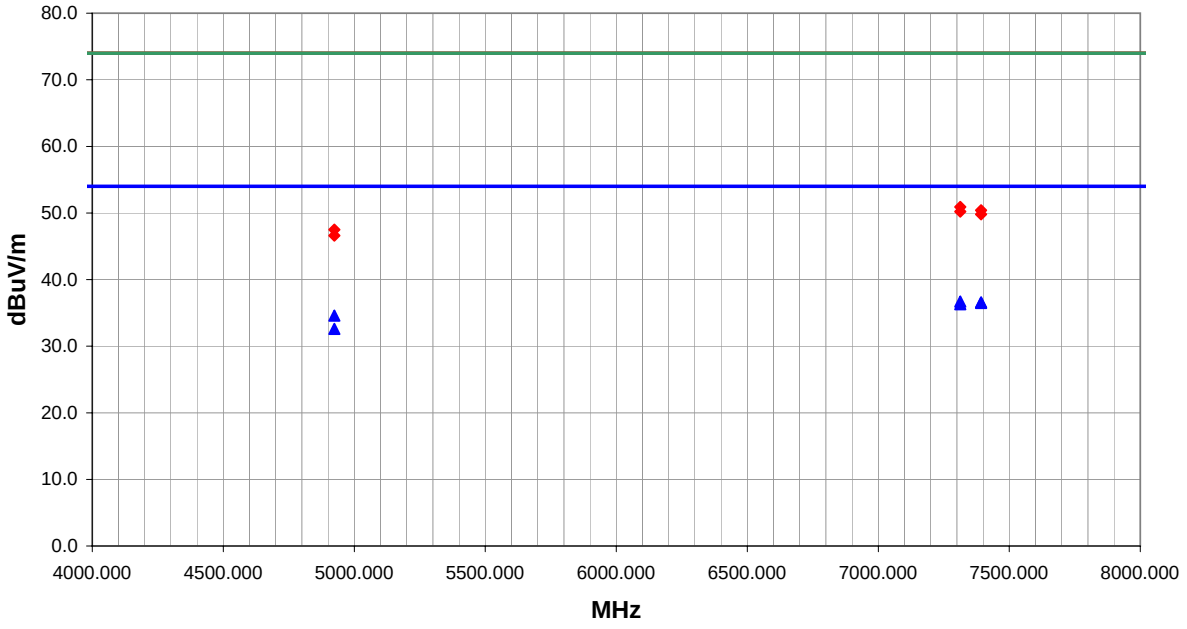
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	77

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
7312.800	27.2	9.5	179.0	1.4	3.0	0.0	H-Horn	AV	0.0	36.7	54.0	-17.3
7392.600	26.9	9.7	135.0	1.3	3.0	0.0	H-Horn	AV	0.0	36.6	54.0	-17.4
7392.600	26.8	9.7	27.0	1.2	3.0	0.0	V-Horn	AV	0.0	36.5	54.0	-17.5
7312.800	26.8	9.5	268.0	3.2	3.0	0.0	V-Horn	AV	0.0	36.3	54.0	-17.7
4923.900	30.0	4.6	312.0	1.6	3.0	0.0	H-Horn	AV	0.0	34.6	54.0	-19.4
4923.900	28.0	4.6	326.0	1.7	3.0	0.0	V-Horn	AV	0.0	32.6	54.0	-21.4
7312.800	41.4	9.5	179.0	1.4	3.0	0.0	H-Horn	PK	0.0	50.9	74.0	-23.1
7392.600	40.7	9.7	135.0	1.3	3.0	0.0	H-Horn	PK	0.0	50.4	74.0	-23.6
7312.800	40.7	9.5	268.0	3.2	3.0	0.0	V-Horn	PK	0.0	50.2	74.0	-23.8
7392.600	40.1	9.7	27.0	1.2	3.0	0.0	V-Horn	PK	0.0	49.8	74.0	-24.2
4923.900	42.9	4.6	312.0	1.6	3.0	0.0	H-Horn	PK	0.0	47.5	74.0	-26.5
4923.900	42.0	4.6	326.0	1.7	3.0	0.0	V-Horn	PK	0.0	46.6	74.0	-27.4

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.00 08/12/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	09/30/03
Customer:	INTERMEC Technologies			Temperature:	74
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21. Dipole on 802.11(a) radio and 063365 Yagi on 802.11(g) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 36 and 802.11(g), 6Mbit, Ch 2.

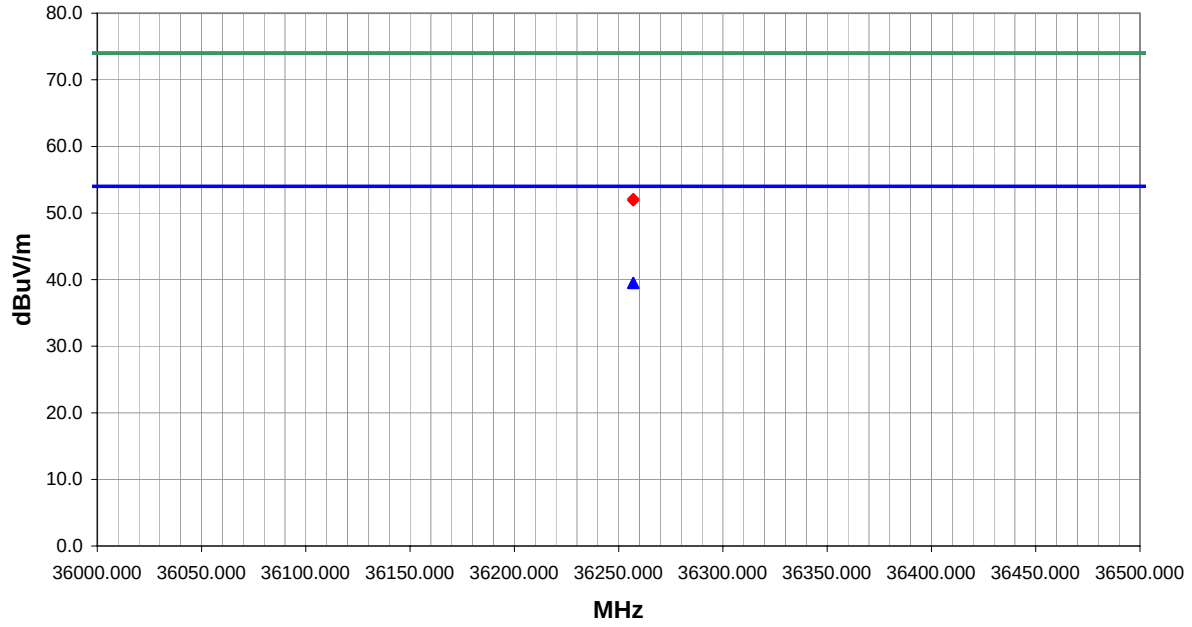
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	36

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
36257.000	44.4	-4.9	0.0	1.1	3.0	0.0	V-High Horr	AV	0.0	39.5	54.0	-14.5
36257.000	44.4	-4.9	0.0	1.1	3.0	0.0	H-High Horr	AV	0.0	39.5	54.0	-14.5
36257.000	57.0	-4.9	0.0	1.1	3.0	0.0	V-High Horr	PK	0.0	52.1	74.0	-21.9
36257.000	56.8	-4.9	0.0	1.1	3.0	0.0	H-High Horr	PK	0.0	51.9	74.0	-22.1

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.00 08/12/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	09/30/03
Customer:	INTERMEC Technologies			Temperature:	74
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21. Dipole on 802.11(a) radio and 063365 Yagi on 802.11(b) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 36 and 802.11(b), 11Mbit, Ch 2.

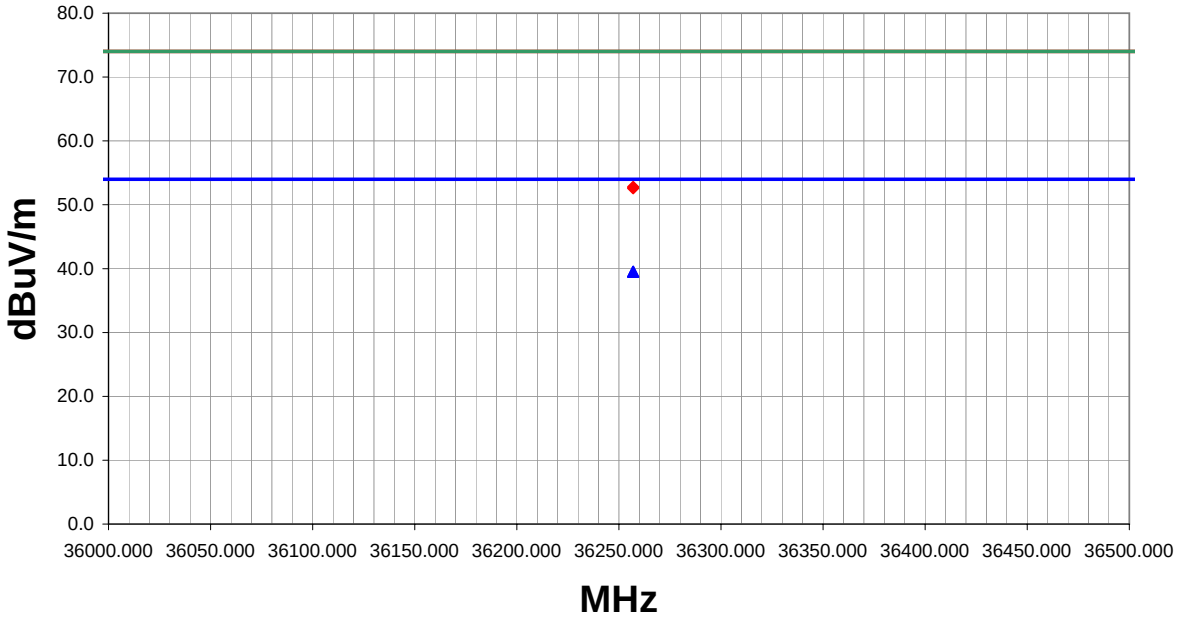
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	38

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
36257.000	44.4	-4.9	0.0	1.1	3.0	0.0	H-High Horr	AV	0.0	39.5	54.0	-14.5
36257.000	44.4	-4.9	0.0	1.1	3.0	0.0	V-High Horr	AV	0.0	39.5	54.0	-14.5
36257.000	57.7	-4.9	0.0	1.1	3.0	0.0	H-High Horr	PK	0.0	52.8	74.0	-21.2
36257.000	57.5	-4.9	0.0	1.1	3.0	0.0	V-High Horr	PK	0.0	52.6	74.0	-21.4

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.00 08/12/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	09/30/03
Customer:	INTERMEC Technologies			Temperature:	74
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21. 071122 Corner Reflector on 802.11(a) radio and 063365 Yagi on 802.11(g) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 60 and 802.11(g), 6Mbit, Ch 8.

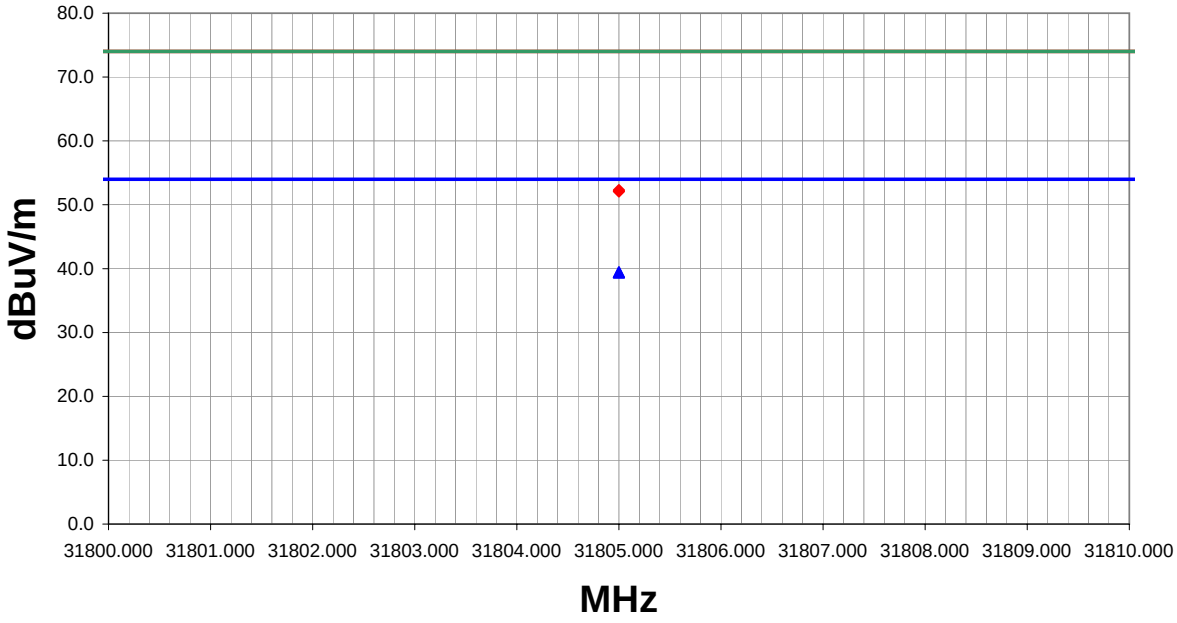
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	40

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
31805.000	46.6	-7.2	0.0	1.1	3.0	0.0	V-High Horr	AV	0.0	39.4	54.0	-14.6
31805.000	46.6	-7.2	0.0	1.1	3.0	0.0	H-High Horr	AV	0.0	39.4	54.0	-14.6
31805.000	59.5	-7.2	0.0	1.1	3.0	0.0	H-High Horr	PK	0.0	52.3	74.0	-21.7
31805.000	59.3	-7.2	0.0	1.1	3.0	0.0	V-High Horr	PK	0.0	52.1	74.0	-21.9

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.00 08/12/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	09/30/03
Customer:	INTERMEC Technologies			Temperature:	74
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21. 071122 Corner Reflector on 802.11(a) radio and 063365 Yagi on 802.11(b) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 60 and 802.11(b), 11Mbit, Ch 8.

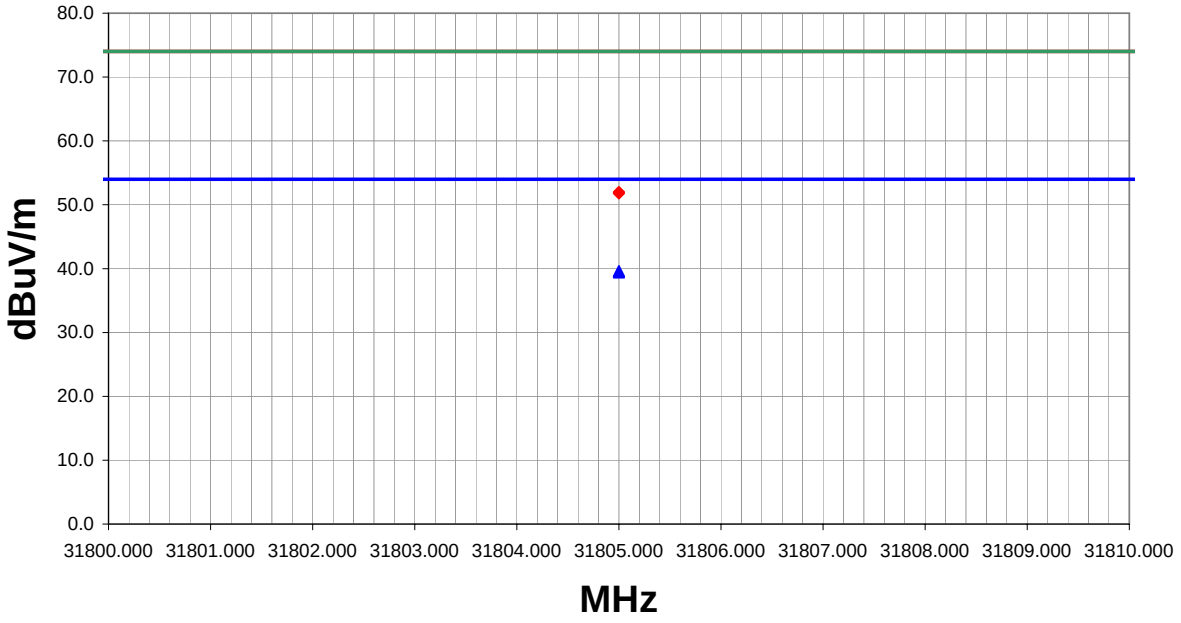
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	42

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
31805.000	46.8	-7.2	0.0	1.1	3.0	0.0	V-High Horr	AV	0.0	39.6	54.0	-14.4
31805.000	46.6	-7.2	0.0	1.1	3.0	0.0	H-High Horr	AV	0.0	39.4	54.0	-14.6
31805.000	59.2	-7.2	0.0	1.1	3.0	0.0	H-High Horr	PK	0.0	52.0	74.0	-22.0
31805.000	59.0	-7.2	0.0	1.1	3.0	0.0	V-High Horr	PK	0.0	51.8	74.0	-22.2

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.00 08/12/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	09/30/03
Customer:	INTERMEC Technologies			Temperature:	74
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21. 071122 Corner Reflector on 802.11(a) radio and 063365 Yagi on 802.11(g) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 64 and 802.11(g), 6Mbit, Ch 2.

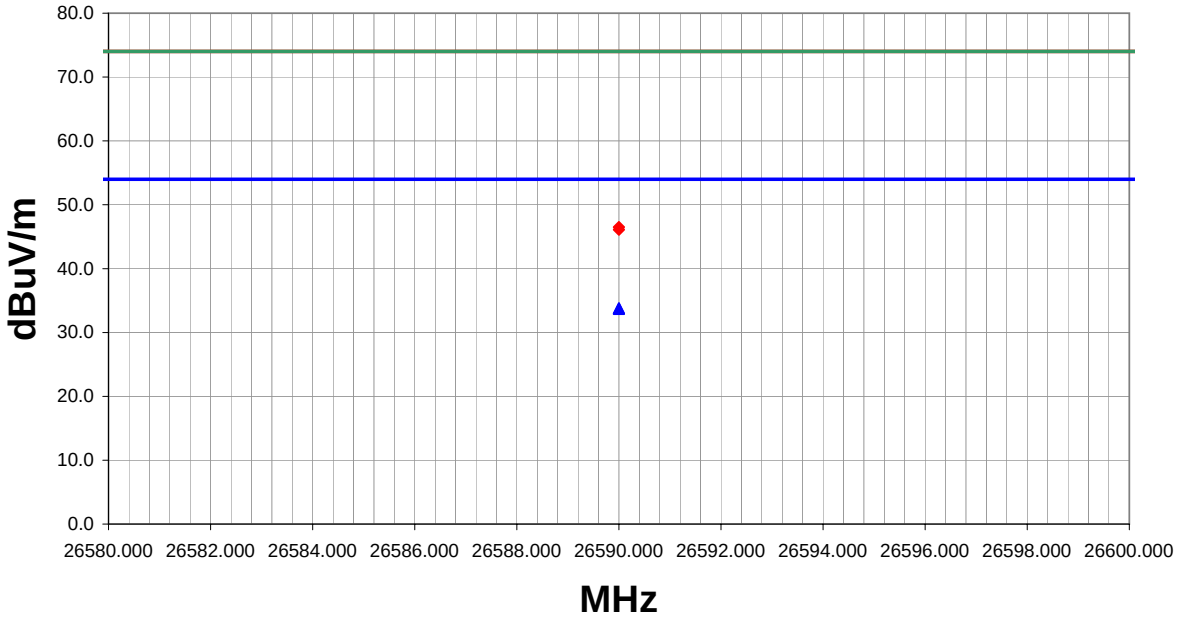
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	44

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
26590.000	45.2	-11.4	0.0	1.1	3.0	0.0	V-High Horr	AV	0.0	33.8	54.0	-20.2
26590.000	45.1	-11.4	0.0	1.1	3.0	0.0	H-High Horr	AV	0.0	33.7	54.0	-20.3
26590.000	57.9	-11.4	0.0	1.1	3.0	0.0	V-High Horr	PK	0.0	46.5	74.0	-27.5
26590.000	57.5	-11.4	0.0	1.1	3.0	0.0	H-High Horr	PK	0.0	46.1	74.0	-27.9

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.00 08/12/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	09/30/03
Customer:	INTERMEC Technologies			Temperature:	74
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21. 071122 Corner Reflector on 802.11(a) radio and 063365 Yagi on 802.11(b) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 64 and 802.11(b), 11Mbit, Ch 2.

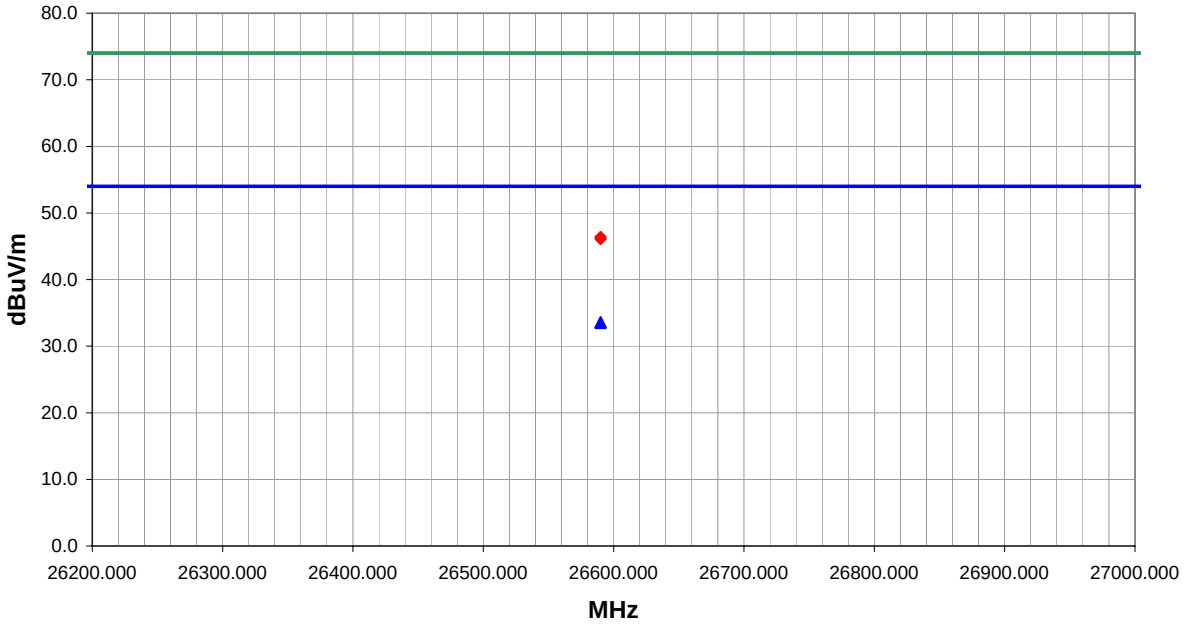
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	46

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
26590.000	45.0	-11.4	0.0	1.1	3.0	0.0	H-High Horr	AV	0.0	33.6	54.0	-20.4
26590.000	44.9	-11.4	0.0	1.1	3.0	0.0	V-High Horr	AV	0.0	33.5	54.0	-20.5
26590.000	57.8	-11.4	0.0	1.1	3.0	0.0	H-High Horr	PK	0.0	46.4	74.0	-27.6
26590.000	57.5	-11.4	0.0	1.1	3.0	0.0	V-High Horr	PK	0.0	46.1	74.0	-27.9

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.00 08/12/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	09/30/03
Customer:	INTERMEC Technologies			Temperature:	74
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21. Dipole on 802.11(a) radio and 063365 Yagi on 802.11(b) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 36 and 802.11(b), 11Mbit, Ch 11.

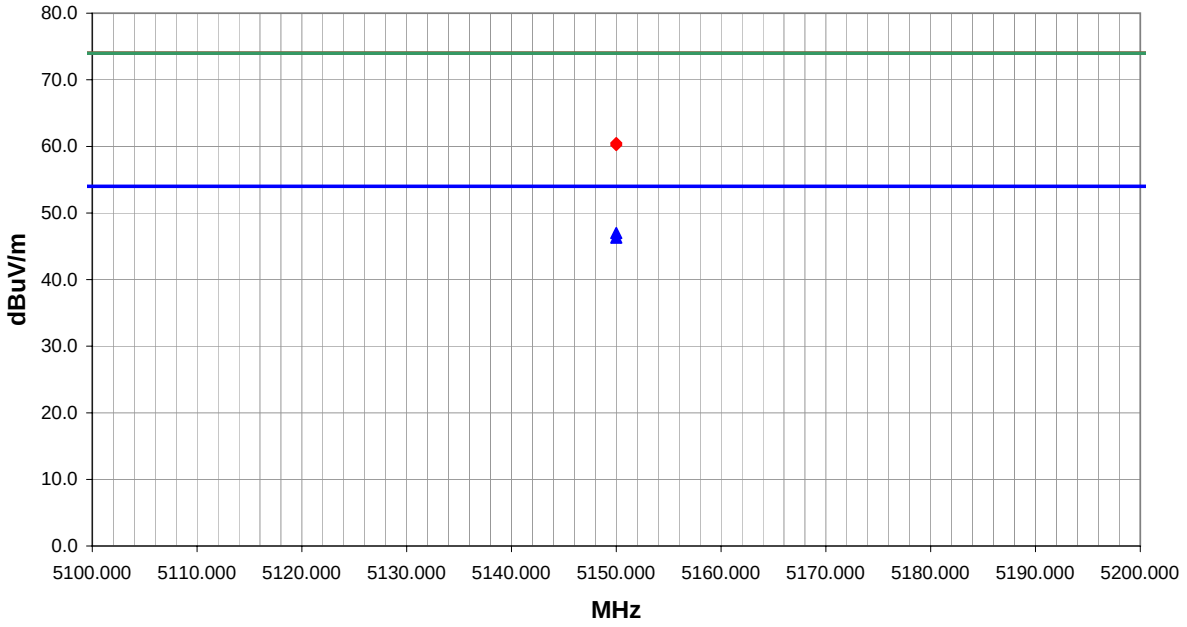
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	48

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
5150.000	21.2	5.8	191.0	1.5	3.0	20.0	V-Horn	AV	0.0	47.0	54.0	-7.0
5150.000	20.5	5.8	191.0	1.5	3.0	20.0	H-Horn	AV	0.0	46.3	54.0	-7.7
5150.000	34.7	5.8	191.0	1.5	3.0	20.0	V-Horn	PK	0.0	60.5	74.0	-13.5
5150.000	34.4	5.8	191.0	1.5	3.0	20.0	H-Horn	PK	0.0	60.2	74.0	-13.8

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.00 08/12/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	09/30/03
Customer:	INTERMEC Technologies			Temperature:	74
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21. Dipole on 802.11(a) radio and 063365 Yagi on 802.11(g) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 36 and 802.11(g), 6Mbit, Ch 11.

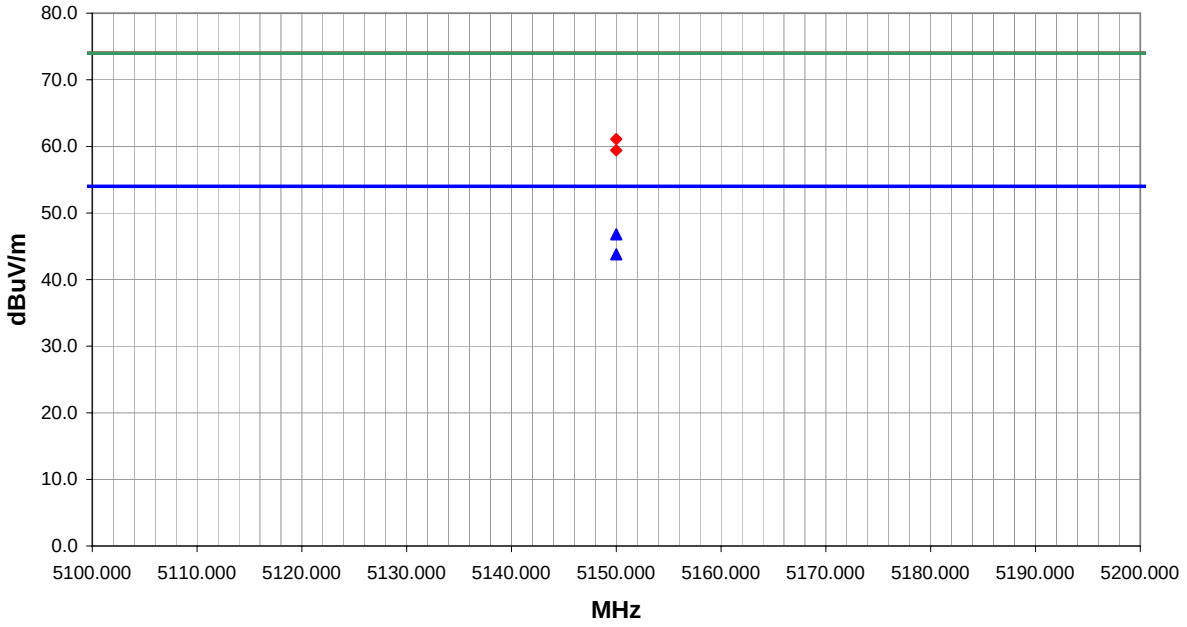
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	50

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
5150.000	21.0	5.8	126.0	1.0	3.0	20.0	V-Horn	AV	0.0	46.8	54.0	-7.2
5150.000	18.0	5.8	360.0	1.0	3.0	20.0	H-Horn	AV	0.0	43.8	54.0	-10.2
5150.000	35.3	5.8	126.0	1.0	3.0	20.0	V-Horn	PK	0.0	61.1	74.0	-12.9
5150.000	33.6	5.8	360.0	1.0	3.0	20.0	H-Horn	PK	0.0	59.4	74.0	-14.6

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.00 08/12/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	09/30/03
Customer:	INTERMEC Technologies			Temperature:	74
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21. 071122 Corner Reflector on 802.11(a) radio and 063365 Yagi on 802.11(b) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 64 and 802.11(b), 11Mbit, Ch 11.

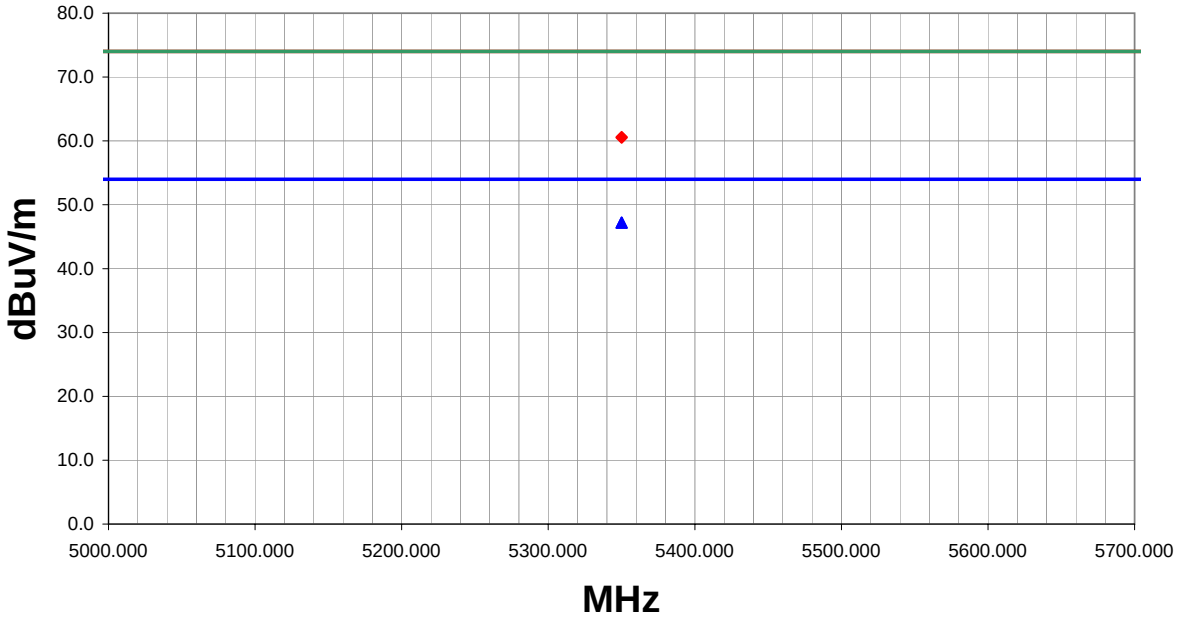
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	52

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
5350.000	20.8	6.4	360.0	1.0	3.0	20.0	H-Horn	AV	0.0	47.2	54.0	-6.8
5350.000	20.8	6.4	118.0	1.0	3.0	20.0	V-Horn	AV	0.0	47.2	54.0	-6.8
5350.000	34.2	6.4	360.0	1.0	3.0	20.0	H-Horn	PK	0.0	60.6	74.0	-13.4
5350.000	34.1	6.4	118.0	1.0	3.0	20.0	V-Horn	PK	0.0	60.5	74.0	-13.5

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.00 08/12/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	09/30/03
Customer:	INTERMEC Technologies			Temperature:	74
Attendees:				Humidity:	36%
Cust. Ref. No.:				Barometric Pressure	30.02
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21. 071122 Corner Reflector on 802.11(a) radio and 063365 Yagi on 802.11(g) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 64 and 802.11(g), 6Mbit, Ch 11.

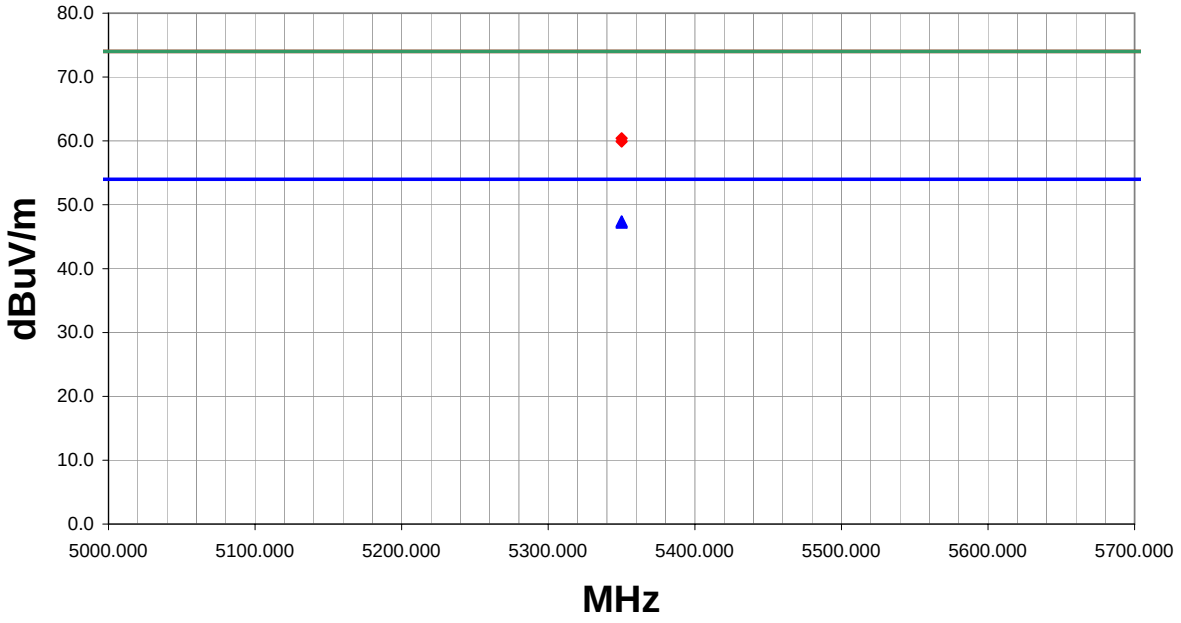
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	54

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
5350.000	21.0	6.4	0.0	1.0	3.0	20.0	H-Horn	AV	0.0	47.4	54.0	-6.6
5350.000	20.8	6.4	97.0	1.0	3.0	20.0	V-Horn	AV	0.0	47.2	54.0	-6.8
5350.000	34.0	6.4	97.0	1.0	3.0	20.0	V-Horn	PK	0.0	60.4	74.0	-13.6
5350.000	33.5	6.4	0.0	1.0	3.0	20.0	H-Horn	PK	0.0	59.9	74.0	-14.1

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.01 10/02/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	10/03/03
Customer:	INTERMEC Technologies			Temperature:	75
Attendees:				Humidity:	43%
Cust. Ref. No.:				Barometric Pressure	29.82
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21. 071122 Corner Reflector on 802.11(a) radio and 063365 Yagi on 802.11(b) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 64 and 802.11(b), 11Mbit, Ch 11.

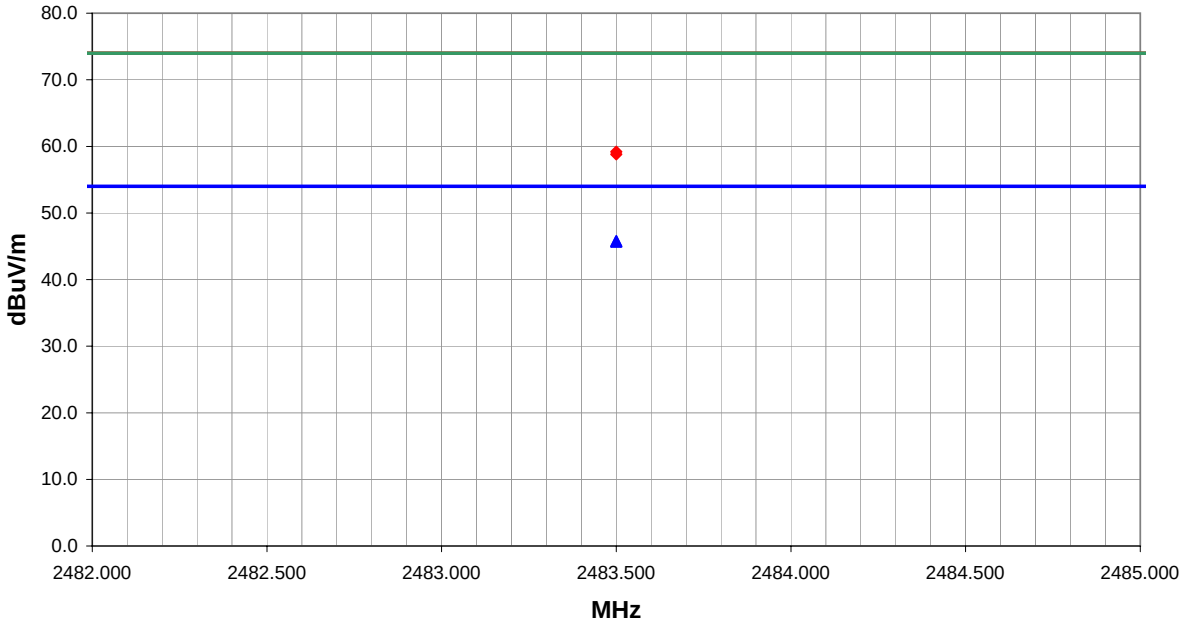
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	68

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
2483.500	27.3	-1.5	67.0	1.3	3.0	20.0	H-Horn	AV	0.0	45.8	54.0	-8.2
2483.500	27.2	-1.5	332.0	1.2	3.0	20.0	V-Horn	AV	0.0	45.7	54.0	-8.3
2483.500	40.7	-1.5	67.0	1.3	3.0	20.0	H-Horn	PK	0.0	59.2	74.0	-14.8
2483.500	40.3	-1.5	332.0	1.2	3.0	20.0	V-Horn	PK	0.0	58.8	74.0	-15.2

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.01 10/02/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	10/03/03
Customer:	INTERMEC Technologies			Temperature:	75
Attendees:				Humidity:	43%
Cust. Ref. No.:				Barometric Pressure	29.82
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21. 071122 Corner Reflector on 802.11(a) radio and 063365 Yagi on 802.11(b) radio.

EUT OPERATING MODES

802.11(a), 6Mbit, Ch 64 and 802.11(g), 6Mbit, Ch 11.

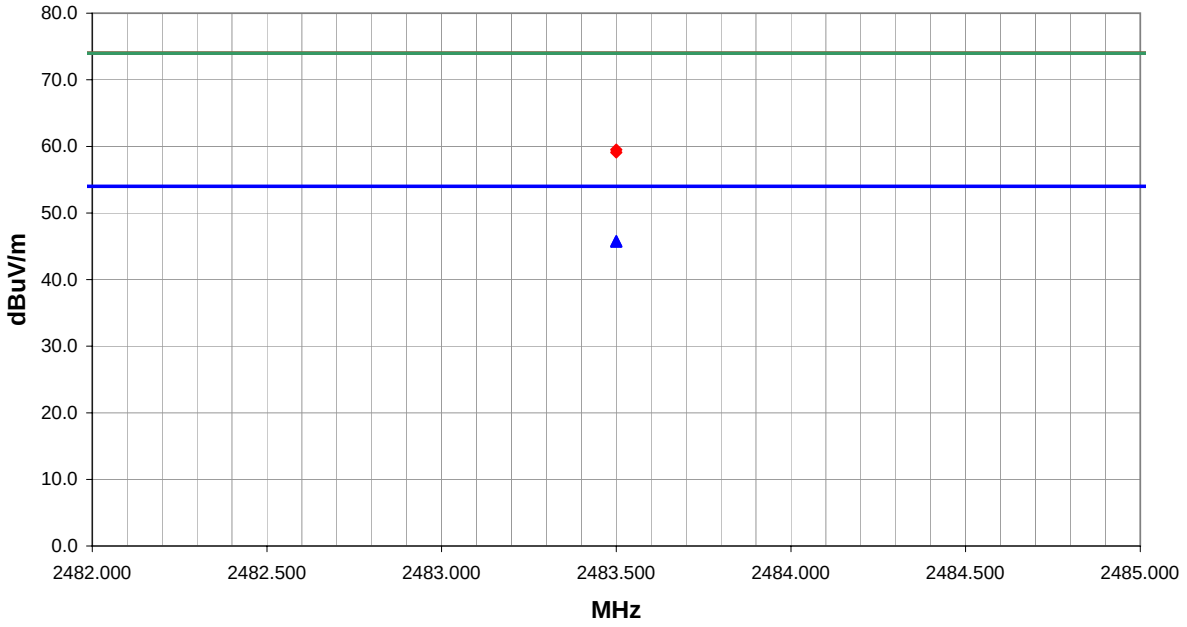
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	70

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
2483.500	27.3	-1.5	50.0	1.6	3.0	20.0	H-Horn	AV	0.0	45.8	54.0	-8.2
2483.500	27.2	-1.5	44.0	2.7	3.0	20.0	V-Horn	AV	0.0	45.7	54.0	-8.3
2483.500	41.0	-1.5	44.0	2.7	3.0	20.0	V-Horn	PK	0.0	59.5	74.0	-14.5
2483.500	40.6	-1.5	50.0	1.6	3.0	20.0	H-Horn	PK	0.0	59.1	74.0	-14.9

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.01 10/02/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	10/07/03
Customer:	INTERMEC Technologies			Temperature:	75
Attendees:				Humidity:	42%
Cust. Ref. No.:				Barometric Pressure	28.88
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21. 063365 Yagi on both radios.

EUT OPERATING MODES

802.11(b), 11Mbit, Ch 11 and 802.11(b), 11Mbit, Ch 6.

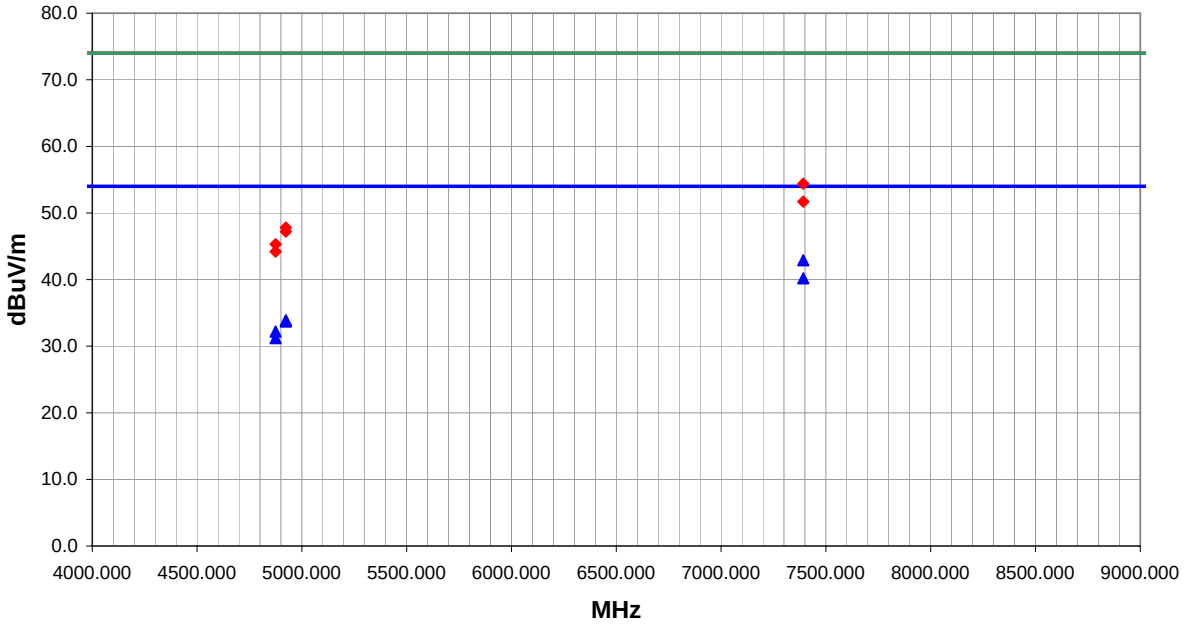
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	78

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
7392.600	33.2	9.7	341.0	1.3	3.0	0.0	H-Horn	AV	0.0	42.9	54.0	-11.1
7392.600	30.5	9.7	314.0	1.2	3.0	0.0	V-Horn	AV	0.0	40.2	54.0	-13.8
4923.900	29.3	4.6	326.0	1.3	3.0	0.0	H-Horn	AV	0.0	33.9	54.0	-20.1
4923.900	29.1	4.6	318.0	1.2	3.0	0.0	V-Horn	AV	0.0	33.7	54.0	-20.3
4874.500	27.7	4.5	113.0	1.2	3.0	0.0	V-Horn	AV	0.0	32.2	54.0	-21.8
4874.500	26.7	4.5	279.0	1.3	3.0	0.0	H-Horn	AV	0.0	31.2	54.0	-22.8
7392.600	44.7	9.7	341.0	1.3	3.0	0.0	H-Horn	PK	0.0	54.4	74.0	-19.6
7392.600	42.0	9.7	314.0	1.2	3.0	0.0	V-Horn	PK	0.0	51.7	74.0	-22.3
4923.900	43.2	4.6	318.0	1.2	3.0	0.0	V-Horn	PK	0.0	47.8	74.0	-26.2
4923.900	42.6	4.6	326.0	1.3	3.0	0.0	H-Horn	PK	0.0	47.2	74.0	-26.8
4874.500	40.8	4.5	113.0	1.2	3.0	0.0	V-Horn	PK	0.0	45.3	74.0	-28.7
4874.500	39.7	4.5	279.0	1.3	3.0	0.0	H-Horn	PK	0.0	44.2	74.0	-29.8

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.01 10/02/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	10/07/03
Customer:	INTERMEC Technologies			Temperature:	75
Attendees:				Humidity:	42%
Cust. Ref. No.:				Barometric Pressure	28.88
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21. 063365 Yagi on both radios.

EUT OPERATING MODES

802.11(b), 11Mbit, Ch 11 and 802.11(g), 6Mbit, Ch 6.

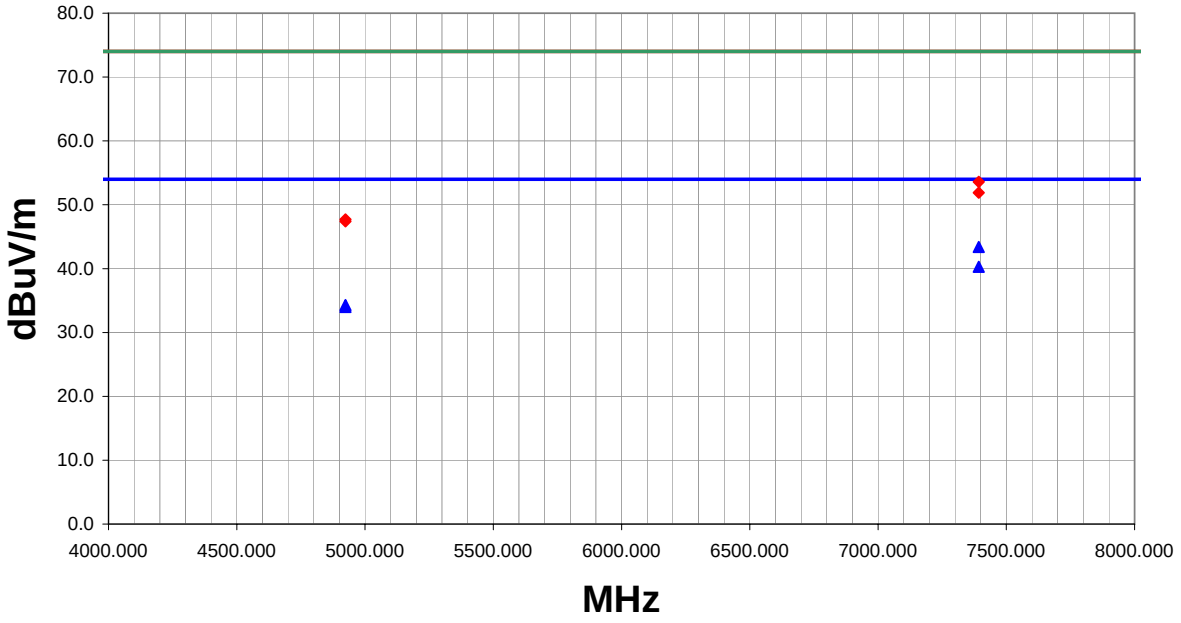
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	79

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
7392.600	33.7	9.7	341.0	1.3	3.0	0.0	H-Horn	AV	0.0	43.4	54.0	-10.6
7392.600	30.6	9.7	345.0	1.8	3.0	0.0	V-Horn	AV	0.0	40.3	54.0	-13.7
4923.900	29.7	4.6	319.0	1.3	3.0	0.0	V-Horn	AV	0.0	34.3	54.0	-19.7
4923.900	29.4	4.6	307.0	1.3	3.0	0.0	H-Horn	AV	0.0	34.0	54.0	-20.0
7392.600	43.9	9.7	341.0	1.3	3.0	0.0	H-Horn	PK	0.0	53.6	74.0	-20.4
7392.600	42.2	9.7	345.0	1.8	3.0	0.0	V-Horn	PK	0.0	51.9	74.0	-22.1
4923.900	43.1	4.6	307.0	1.3	3.0	0.0	H-Horn	PK	0.0	47.7	74.0	-26.3
4923.900	42.8	4.6	319.0	1.3	3.0	0.0	V-Horn	PK	0.0	47.4	74.0	-26.6

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.01 10/02/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	10/07/03
Customer:	INTERMEC Technologies			Temperature:	75
Attendees:				Humidity:	42%
Cust. Ref. No.:				Barometric Pressure	28.88
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21. 063365 Yagi on both radios.

EUT OPERATING MODES

802.11(g), 6Mbit, Ch 11 and 802.11(g), 6Mbit, Ch 6.

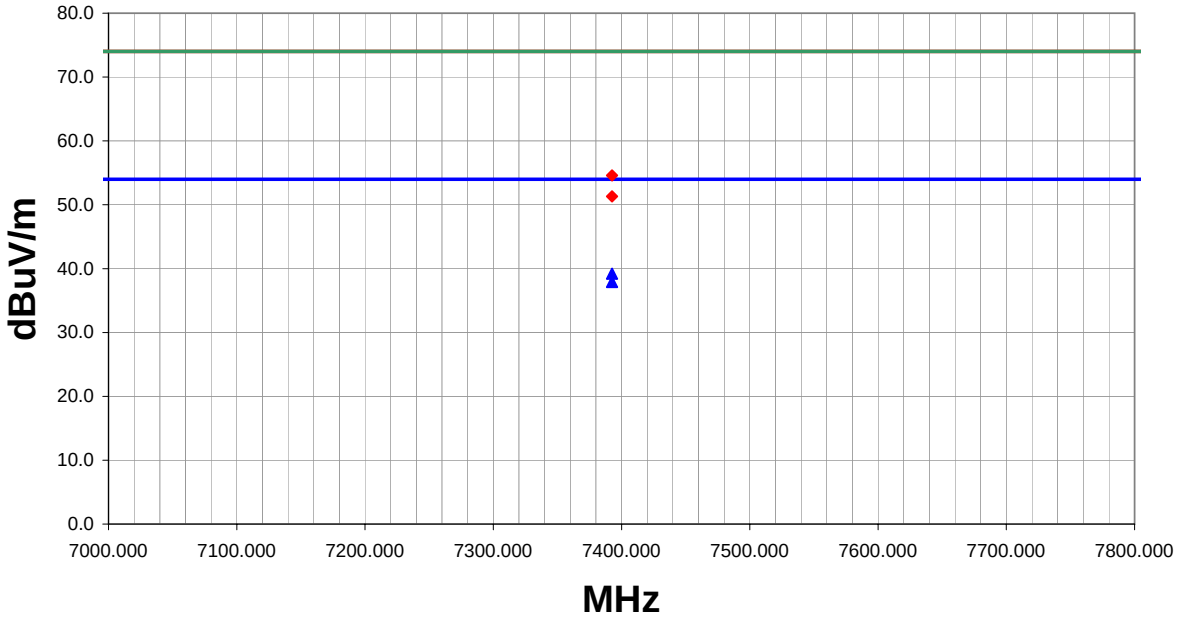
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	80

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
7392.600	29.5	9.7	342.0	1.1	3.0	0.0	H-Horn	AV	0.0	39.2	54.0	-14.8
7392.600	28.2	9.7	344.0	1.2	3.0	0.0	V-Horn	AV	0.0	37.9	54.0	-16.1
7392.600	44.9	9.7	342.0	1.1	3.0	0.0	H-Horn	PK	0.0	54.6	74.0	-19.4
7392.600	41.6	9.7	344.0	1.2	3.0	0.0	V-Horn	PK	0.0	51.3	74.0	-22.7

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.01 10/02/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	10/07/03
Customer:	INTERMEC Technologies			Temperature:	75
Attendees:				Humidity:	42%
Cust. Ref. No.:				Barometric Pressure	28.88
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21. 063365 Yagi on both radios.

EUT OPERATING MODES

802.11(g), 6Mbit, Ch 11 and 802.11(b), 11Mbit, Ch 6.

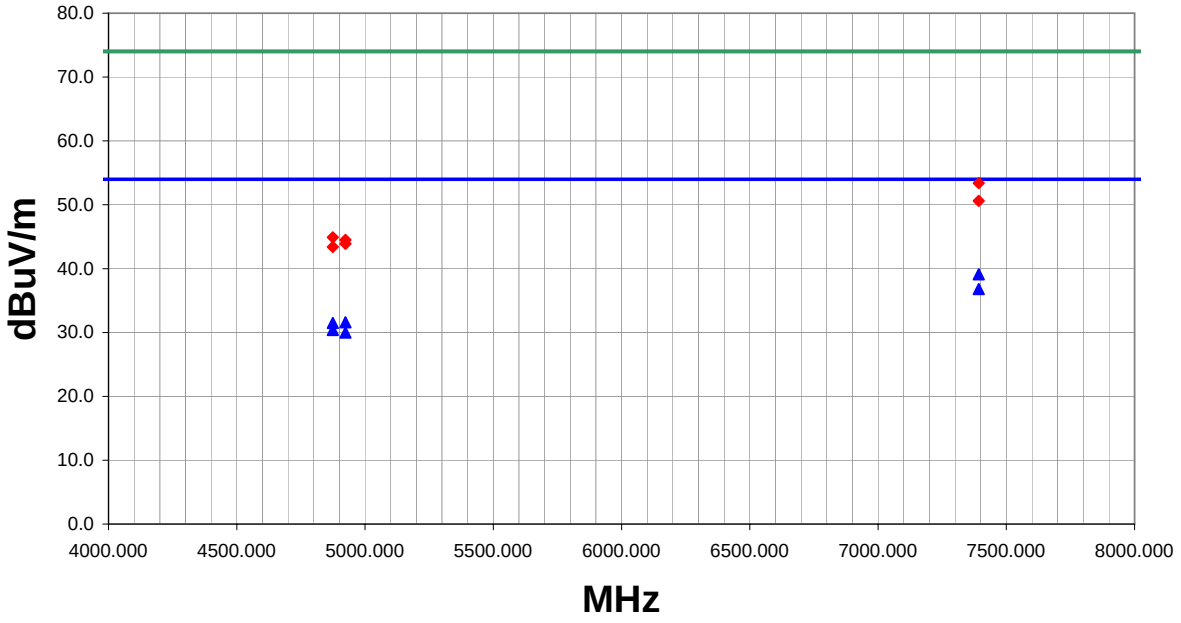
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	81

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
7392.600	29.4	9.7	2.0	1.2	3.0	0.0	H-Horn	AV	0.0	39.1	54.0	-14.9
7392.600	27.1	9.7	15.0	1.2	3.0	0.0	V-Horn	AV	0.0	36.8	54.0	-17.2
4923.900	27.0	4.6	337.0	1.2	3.0	0.0	V-Horn	AV	0.0	31.6	54.0	-22.4
4874.500	27.0	4.5	285.0	1.2	3.0	0.0	V-Horn	AV	0.0	31.5	54.0	-22.5
4874.500	25.9	4.5	315.0	1.3	3.0	0.0	H-Horn	AV	0.0	30.4	54.0	-23.6
4923.900	25.4	4.6	150.0	2.1	3.0	0.0	H-Horn	AV	0.0	30.0	54.0	-24.0
7392.600	43.7	9.7	2.0	1.2	3.0	0.0	H-Horn	PK	0.0	53.4	74.0	-20.6
7392.600	40.9	9.7	15.0	1.2	3.0	0.0	V-Horn	PK	0.0	50.6	74.0	-23.4
4874.500	40.4	4.5	285.0	1.2	3.0	0.0	V-Horn	PK	0.0	44.9	74.0	-29.1
4923.900	39.9	4.6	150.0	2.1	3.0	0.0	H-Horn	PK	0.0	44.5	74.0	-29.5
4923.900	39.3	4.6	337.0	1.2	3.0	0.0	V-Horn	PK	0.0	43.9	74.0	-30.1
4874.500	38.9	4.5	315.0	1.3	3.0	0.0	H-Horn	PK	0.0	43.4	74.0	-30.6

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.01 10/02/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	10/07/03
Customer:	INTERMEC Technologies			Temperature:	75
Attendees:				Humidity:	42%
Cust. Ref. No.:				Barometric Pressure	28.88
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21. 063365 Yagi on both radios.

EUT OPERATING MODES

802.11(g), 6Mbit, Ch 11 and 802.11(b), 11Mbit, Ch 6.

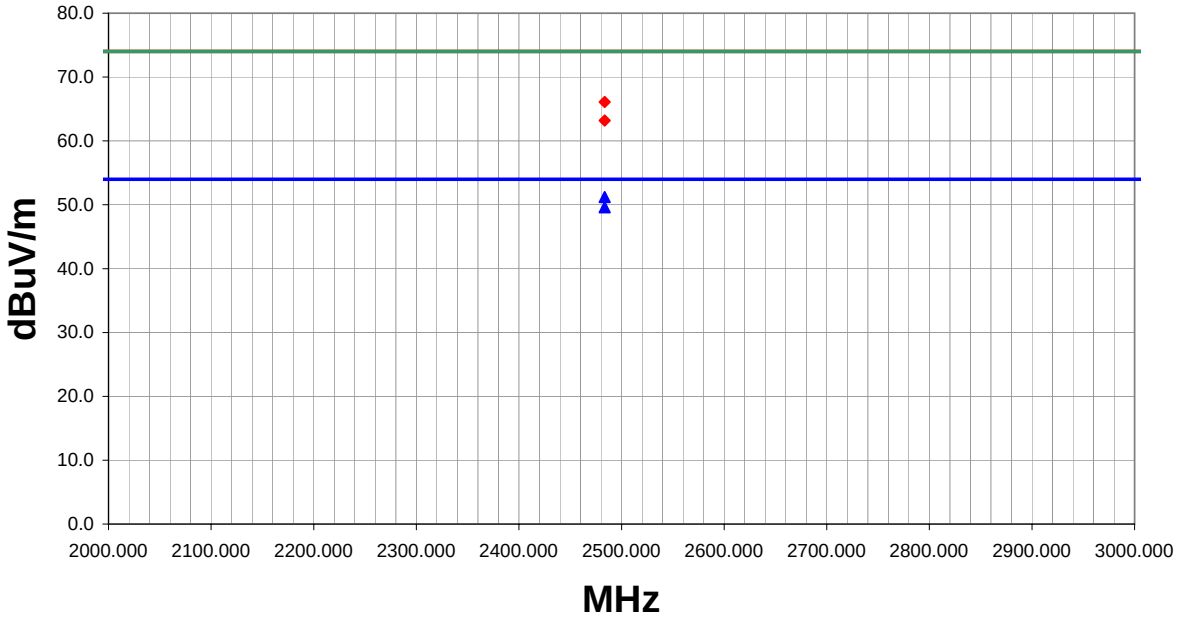
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	82

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
2483.500	32.7	-1.5	297.0	1.2	3.0	20.0	H-Horn	AV	0.0	51.2	54.0	-2.8
2483.500	31.1	-1.5	333.0	1.2	3.0	20.0	V-Horn	AV	0.0	49.6	54.0	-4.4
2483.500	47.6	-1.5	297.0	1.2	3.0	20.0	H-Horn	PK	0.0	66.1	74.0	-7.9
2483.500	44.7	-1.5	333.0	1.2	3.0	20.0	V-Horn	PK	0.0	63.2	74.0	-10.8

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.01 10/02/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	10/08/03
Customer:	INTERMEC Technologies			Temperature:	75
Attendees:				Humidity:	42%
Cust. Ref. No.:				Barometric Pressure	28.88
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21. 063365 Yagi on both radios.

EUT OPERATING MODES

802.11(g), 6Mbit, Ch 11 and 802.11(g), 6Mbit, Ch 6.

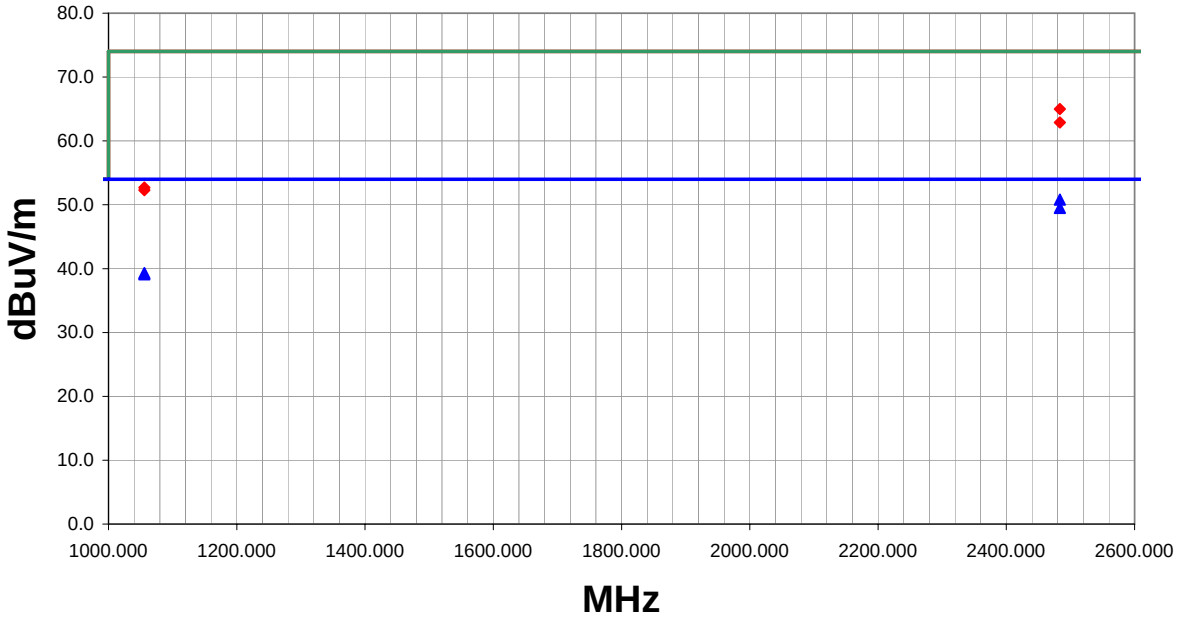
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	83

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
2483.500	32.3	-1.5	250.0	1.3	3.0	20.0	H-Horn	AV	0.0	50.8	54.0	-3.2
2483.500	31.0	-1.5	331.0	1.2	3.0	20.0	V-Horn	AV	0.0	49.5	54.0	-4.5
1055.981	28.0	-8.7	239.0	1.2	3.0	20.0	V-Horn	AV	0.0	39.3	54.0	-14.7
1055.981	27.8	-8.7	48.0	1.3	3.0	20.0	H-Horn	AV	0.0	39.1	54.0	-14.9
2483.500	46.5	-1.5	250.0	1.3	3.0	20.0	H-Horn	PK	0.0	65.0	74.0	-9.0
2483.500	44.4	-1.5	331.0	1.2	3.0	20.0	V-Horn	PK	0.0	62.9	74.0	-11.1
1055.981	41.4	-8.7	239.0	1.2	3.0	20.0	V-Horn	PK	0.0	52.7	74.0	-21.3
1055.981	41.0	-8.7	48.0	1.3	3.0	20.0	H-Horn	PK	0.0	52.3	74.0	-21.7

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.01 10/02/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	10/08/03
Customer:	INTERMEC Technologies			Temperature:	75
Attendees:				Humidity:	42%
Cust. Ref. No.:				Barometric Pressure	28.88
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21. 063365 Yagi on both radios.

EUT OPERATING MODES

802.11(b), 11Mbit, Ch 11 and 802.11(g), 6Mbit, Ch 6.

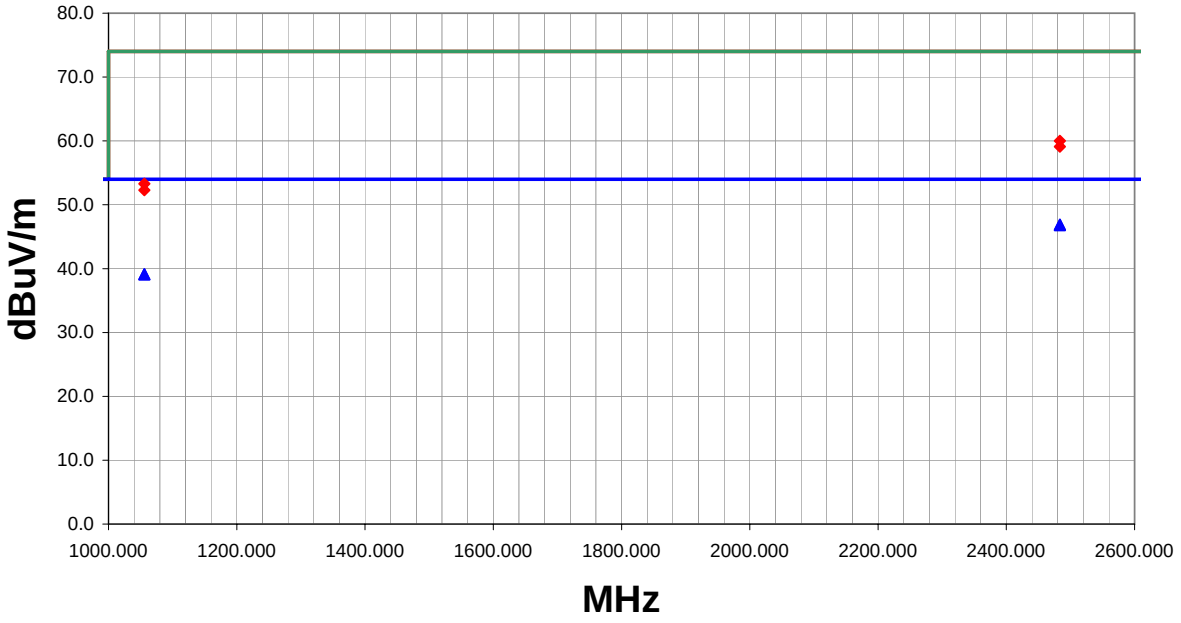
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	22

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
2483.500	28.4	-1.5	219.0	1.2	3.0	20.0	V-Horn	AV	0.0	46.9	54.0	-7.1
2483.500	28.3	-1.5	-4.0	1.1	3.0	20.0	H-Horn	AV	0.0	46.8	54.0	-7.2
1055.981	27.8	-8.7	133.0	1.3	3.0	20.0	H-Horn	AV	0.0	39.1	54.0	-14.9
1055.981	27.8	-8.7	345.0	1.2	3.0	20.0	V-Horn	AV	0.0	39.1	54.0	-14.9
2483.500	41.5	-1.5	219.0	1.2	3.0	20.0	V-Horn	PK	0.0	60.0	74.0	-14.0
2483.500	40.6	-1.5	-4.0	1.1	3.0	20.0	H-Horn	PK	0.0	59.1	74.0	-14.9
1055.981	42.0	-8.7	133.0	1.3	3.0	20.0	H-Horn	PK	0.0	53.3	74.0	-20.7
1055.981	41.0	-8.7	345.0	1.2	3.0	20.0	V-Horn	PK	0.0	52.3	74.0	-21.7

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.01 10/02/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	10/08/03
Customer:	INTERMEC Technologies			Temperature:	75
Attendees:				Humidity:	42%
Cust. Ref. No.:				Barometric Pressure	28.88
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC Part 15.247(c)	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21. 063365 Yagi on both radios.

EUT OPERATING MODES

802.11(b), 11Mbit, Ch 11 and 802.11(b), 11Mbit, Ch 6.

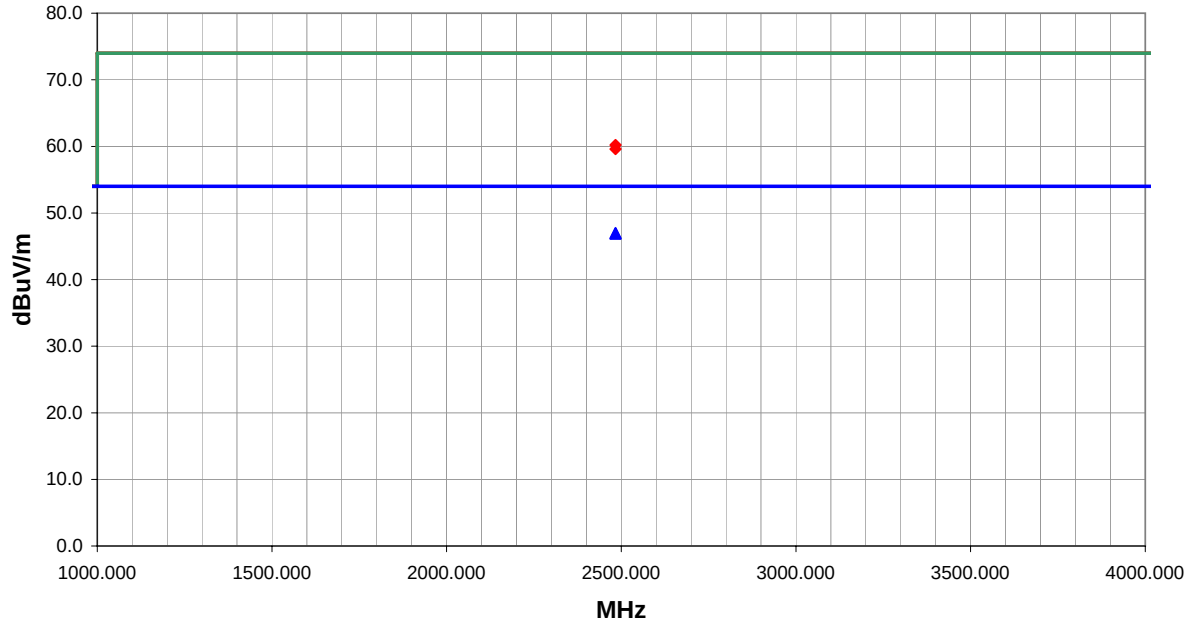
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	85

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)
2483.500	28.5	-1.5	214.0	1.2	3.0	20.0	V-Horn	AV	0.0	47.0	54.0	-7.0
2483.500	28.4	-1.5	251.0	1.2	3.0	20.0	H-Horn	AV	0.0	46.9	54.0	-7.1
2483.500	41.7	-1.5	251.0	1.2	3.0	20.0	H-Horn	PK	0.0	60.2	74.0	-13.8
2483.500	41.1	-1.5	214.0	1.2	3.0	20.0	V-Horn	PK	0.0	59.6	74.0	-14.4

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:
High
Mid
Low

Operating Modes Investigated:
802.11(b)
802.11(g)

Data Rates Investigated:
6Mbit
11Mbit

Output Power Setting(s) Investigated:
Maximum

Power Input Settings Investigated:
120 VAC, 60 Hz to host WA21.
DC over e-net through Power bridge to host WA22.

Other Settings Investigated:
WA22 Access Point
WA21 Access Point

Software\Firmware Applied During Test			
Exercise software	AP Monitor	Version	V5.55 March 5, 2003
Description			
Using Intermec's Access Point Configuration via HyperTerminal to control data rate and channel of 802MIG2 Radio.			

EUT and Peripherals

Description	Manufacturer	Model/Part Number	Serial Number
Radio (EUT)	INTERMEC Technologies	802MIG2	none
Access Point	INTERMEC Technologies	WA22	29300201290
Access Point	INTERMEC Technologies	WA21	17400301369
Corner Reflector 071122	Mobile Mark	SCR14-5250I	N/A
Yagi 063365	CushCraft Communication Antenna	N/A	N/A
Omni 066147 Antenna (x2)	N/A	N/A	N/A

Remote Equipment Outside of Test Setup Boundary

Description	Manufacturer	Model/Part Number	Serial Number
Laptop	Compaq Computer Corporation	Presario 1610	5817BQB6D057
Power Adapter	Compaq Computer Corporation	2902	N/A
Power Bridge	INTERMEC Technologies	071578-001	S02516282523330

*Note : Equipment isolated from the EUT so as not to contribute to the measurement results are considered to be outside the test setup boundary.

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC Leads	PA	1.2	Yes	Laptop	Power Adapter
AC Power	No	1.8	No	Power Adapter	AC Mains
AC Power	No	1.8	No	Power Bridge	AC Mains
LAN	No	4.5	No	Access Point	Power Bridge
Serial	Yes	1.5	No	Laptop	Access Point
Coax (2x)	Yes	0.6	No	Access Point	Antenna
AC Power	No	2.0	No	Access Point (WA21 only)	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	8566B	AAL	01/07/2003	12 mo
Quasi-Peak Adapter	Hewlett-Packard	85650A	AQF	01/07/2003	12 mo
High Pass Filter	TTE	H97-100k-50-720B	HFC	01/02/2003	12 mo
LISN	Solar	9252-50-R-24-BNC	LIN	12/12/2002	12 mo

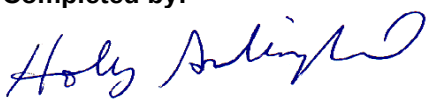
AC Powerline Conducted Emissions

Test Description

Requirement: Per 47 15.207(d), if the EUT is connected to the AC power line indirectly, obtaining its power from another device that is connected to the AC power line, then it should be tested to demonstrate compliance with the conducted limits of 15.207.

Configuration: The EUT will be powered from a host access point that could be connected to the AC power line or to a powered Ethernet bridge. Therefore, the measurements were made on the host access point used to power the EUT. The AC power line conducted emissions were measured with the EUT operating at the lowest, the highest, and a middle channel in the operational band. The EUT was transmitting at its maximum data rate. For each mode, the spectrum was scanned from 150 kHz to 30 MHz. The test setup and procedures were in accordance with ANSI C63.4-1992.

Completed by:



NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/31/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(b), Low channel, Stand alone.

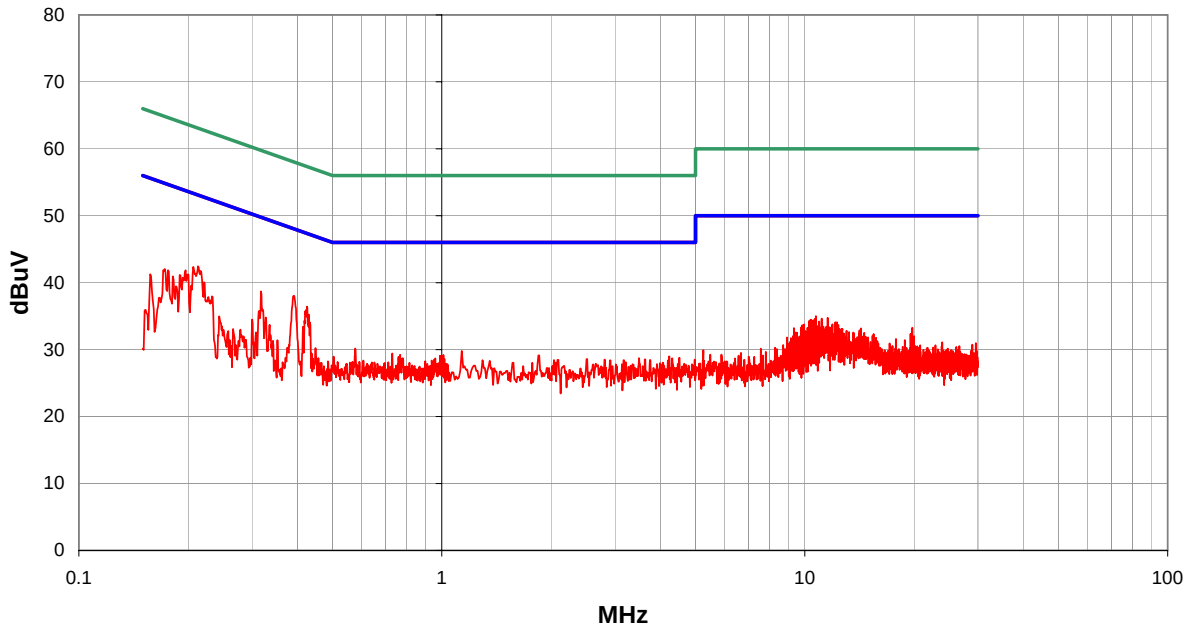
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	L1	1

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.392	17.8			0.0	0.2	20.0				38.0	48.0	-10.0
0.213	22.3			0.0	0.2	20.0				42.5	53.1	-10.6
0.425	16.2			0.0	0.2	20.0				36.4	47.3	-10.9
0.317	18.5			0.0	0.2	20.0				38.7	49.8	-11.1
0.197	21.7			0.0	0.2	20.0				41.9	53.7	-11.9
0.221	19.9			0.0	0.2	20.0				40.1	52.8	-12.7
0.173	21.9			0.0	0.1	20.0				42.0	54.8	-12.8
0.176	21.7			0.0	0.2	20.0				41.9	54.7	-12.8
0.190	21.0			0.0	0.2	20.0				41.2	54.1	-12.9
0.182	20.8			0.0	0.2	20.0				41.0	54.4	-13.5
0.415	13.2			0.0	0.2	20.0				33.4	47.6	-14.1
0.157	21.1			0.0	0.1	20.0				41.2	55.6	-14.4
0.327	14.6			0.0	0.2	20.0				34.8	49.5	-14.7
10.740	14.1			0.0	0.9	20.0				35.0	50.0	-15.0
11.568	13.8			0.0	0.9	20.0				34.7	50.0	-15.3
11.136	13.7			0.0	0.9	20.0				34.6	50.0	-15.4
10.680	13.7			0.0	0.9	20.0				34.6	50.0	-15.4
10.400	13.6			0.0	0.9	20.0				34.5	50.0	-15.5
10.560	13.5			0.0	0.9	20.0				34.4	50.0	-15.6
10.344	13.5			0.0	0.9	20.0				34.4	50.0	-15.6

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/31/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(b), Mid channel, Stand alone.

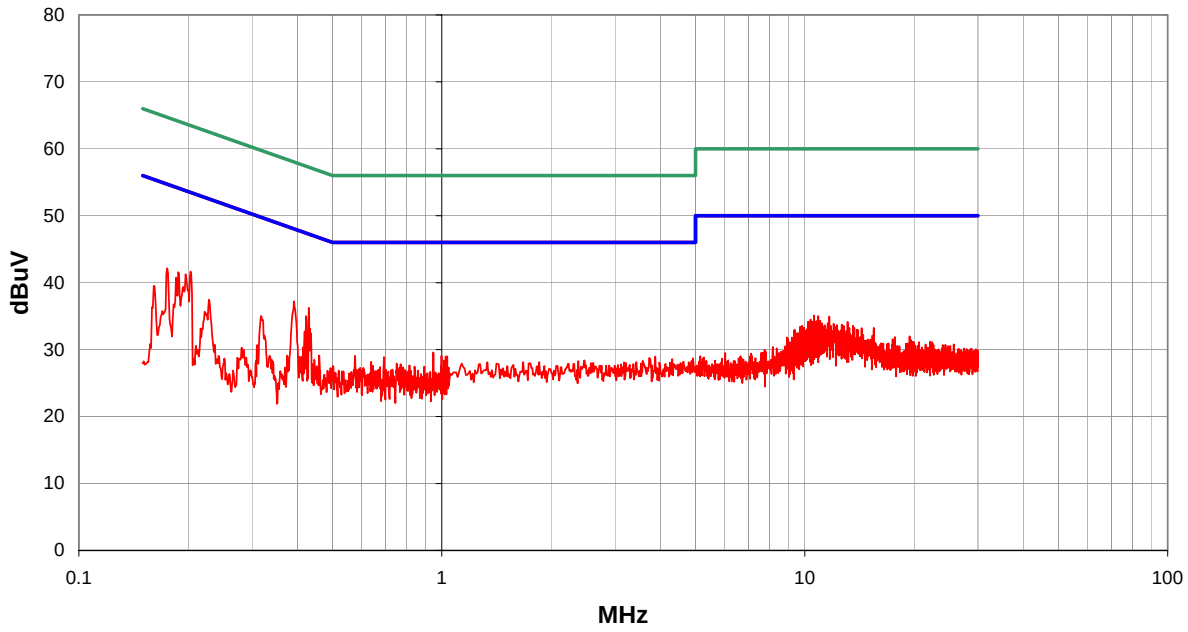
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	L1	2

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.391	17.0			0.0	0.2	20.0				37.2	48.0	-10.8
0.430	16.0			0.0	0.2	20.0				36.2	47.3	-11.0
0.203	21.5			0.0	0.2	20.0				41.7	53.5	-11.8
0.423	14.8			0.0	0.2	20.0				35.0	47.4	-12.4
0.197	21.1			0.0	0.2	20.0				41.3	53.7	-12.5
0.175	22.0			0.0	0.2	20.0				42.2	54.7	-12.6
0.188	21.4			0.0	0.2	20.0				41.6	54.1	-12.6
0.185	20.6			0.0	0.2	20.0				40.8	54.3	-13.5
0.434	12.9			0.0	0.2	20.0				33.1	47.2	-14.1
0.419	12.5			0.0	0.2	20.0				32.7	47.5	-14.7
0.318	14.8			0.0	0.2	20.0				35.0	49.8	-14.8
10.610	14.2			0.0	0.9	20.0				35.1	50.0	-14.9
10.896	14.1			0.0	0.9	20.0				35.0	50.0	-15.0
0.228	17.3			0.0	0.2	20.0				37.5	52.5	-15.0
11.688	14.0			0.0	1.0	20.0				35.0	50.0	-15.0
10.380	13.6			0.0	0.9	20.0				34.5	50.0	-15.5
11.040	13.4			0.0	0.9	20.0				34.3	50.0	-15.7
10.840	13.4			0.0	0.9	20.0				34.3	50.0	-15.7
10.830	13.4			0.0	0.9	20.0				34.3	50.0	-15.7
10.680	13.3			0.0	0.9	20.0				34.2	50.0	-15.8

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/31/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(b), High channel, Stand alone.

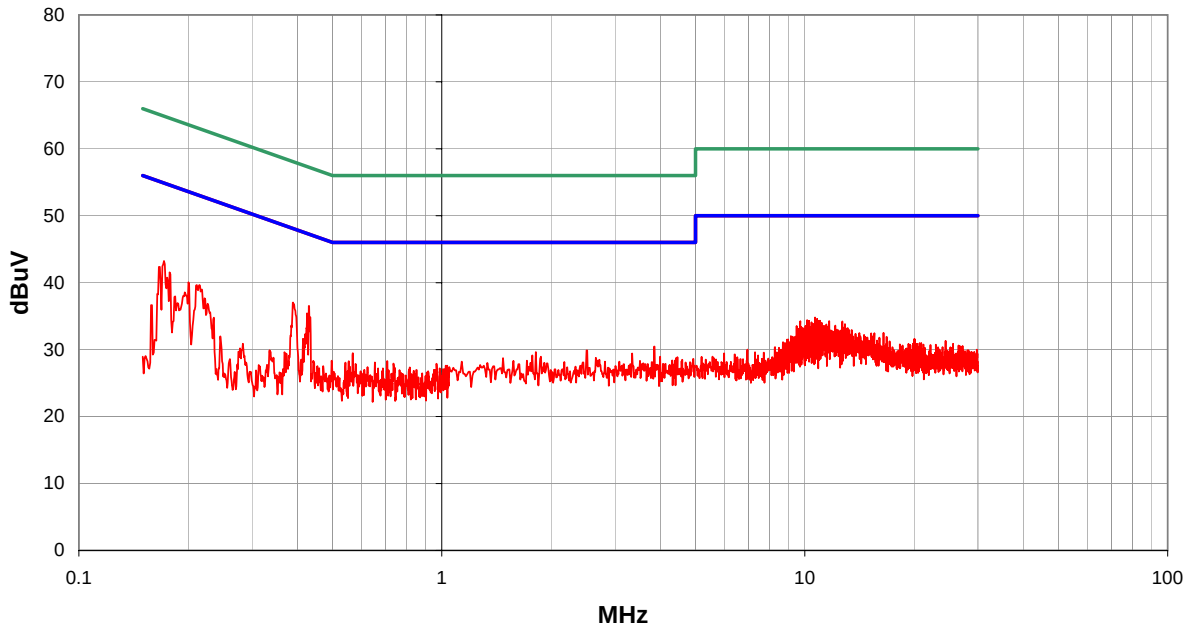
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	L1	3

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.431	16.3			0.0	0.2	20.0				36.5	47.2	-10.7
0.389	16.8			0.0	0.2	20.0				37.0	48.1	-11.1
0.172	23.1			0.0	0.1	20.0				43.2	54.9	-11.6
0.425	15.2			0.0	0.2	20.0				35.4	47.3	-11.9
0.434	14.6			0.0	0.2	20.0				34.8	47.2	-12.3
0.167	22.2			0.0	0.1	20.0				42.3	55.1	-12.8
0.178	21.4			0.0	0.2	20.0				41.6	54.6	-13.0
0.215	19.5			0.0	0.2	20.0				39.7	53.0	-13.4
0.200	19.9			0.0	0.2	20.0				40.1	53.6	-13.5
10.680	13.9			0.0	0.9	20.0				34.8	50.0	-15.2
10.820	13.7			0.0	0.9	20.0				34.6	50.0	-15.4
10.668	13.7			0.0	0.9	20.0				34.6	50.0	-15.4
3.856	9.9			0.0	0.5	20.0				30.4	46.0	-15.6
10.160	13.5			0.0	0.9	20.0				34.4	50.0	-15.6
10.150	13.5			0.0	0.9	20.0				34.4	50.0	-15.6
11.016	13.4			0.0	0.9	20.0				34.3	50.0	-15.7
10.940	13.4			0.0	0.9	20.0				34.3	50.0	-15.7
10.280	13.4			0.0	0.9	20.0				34.3	50.0	-15.7
10.270	13.4			0.0	0.9	20.0				34.3	50.0	-15.7
10.180	13.4			0.0	0.9	20.0				34.3	50.0	-15.7

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/31/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(g), Low channel, Stand alone.

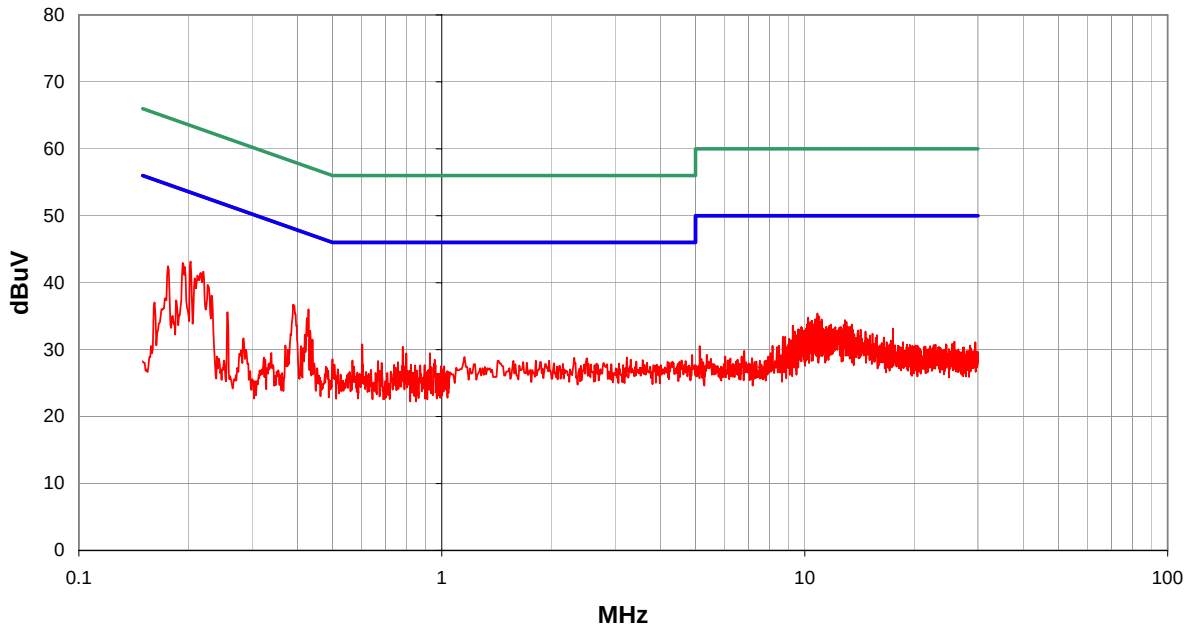
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	L1	4

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.203	23.0			0.0	0.2	20.0				43.2	53.5	-10.3
0.193	22.8			0.0	0.2	20.0				43.0	53.9	-10.9
0.220	21.5			0.0	0.2	20.0				41.7	52.8	-11.1
0.429	15.8			0.0	0.2	20.0				36.0	47.3	-11.2
0.389	16.5			0.0	0.2	20.0				36.7	48.1	-11.4
0.176	22.3			0.0	0.2	20.0				42.5	54.7	-12.2
0.425	14.5			0.0	0.2	20.0				34.7	47.3	-12.6
0.227	19.5			0.0	0.2	20.0				39.7	52.6	-12.9
0.232	17.9			0.0	0.2	20.0				38.1	52.4	-14.3
0.434	12.6			0.0	0.2	20.0				32.8	47.2	-14.4
10.840	14.5			0.0	0.9	20.0				35.4	50.0	-14.6
10.896	14.1			0.0	0.9	20.0				35.0	50.0	-15.0
10.960	14.0			0.0	0.9	20.0				34.9	50.0	-15.1
0.604	10.5			0.0	0.3	20.0				30.8	46.0	-15.2
10.224	13.9			0.0	0.9	20.0				34.8	50.0	-15.2
0.419	12.0			0.0	0.2	20.0				32.2	47.5	-15.2
10.800	13.8			0.0	0.9	20.0				34.7	50.0	-15.3
10.788	13.8			0.0	0.9	20.0				34.7	50.0	-15.3
10.920	13.7			0.0	0.9	20.0				34.6	50.0	-15.4
10.908	13.7			0.0	0.9	20.0				34.6	50.0	-15.4

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/31/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(g), Mid channel, Stand alone.

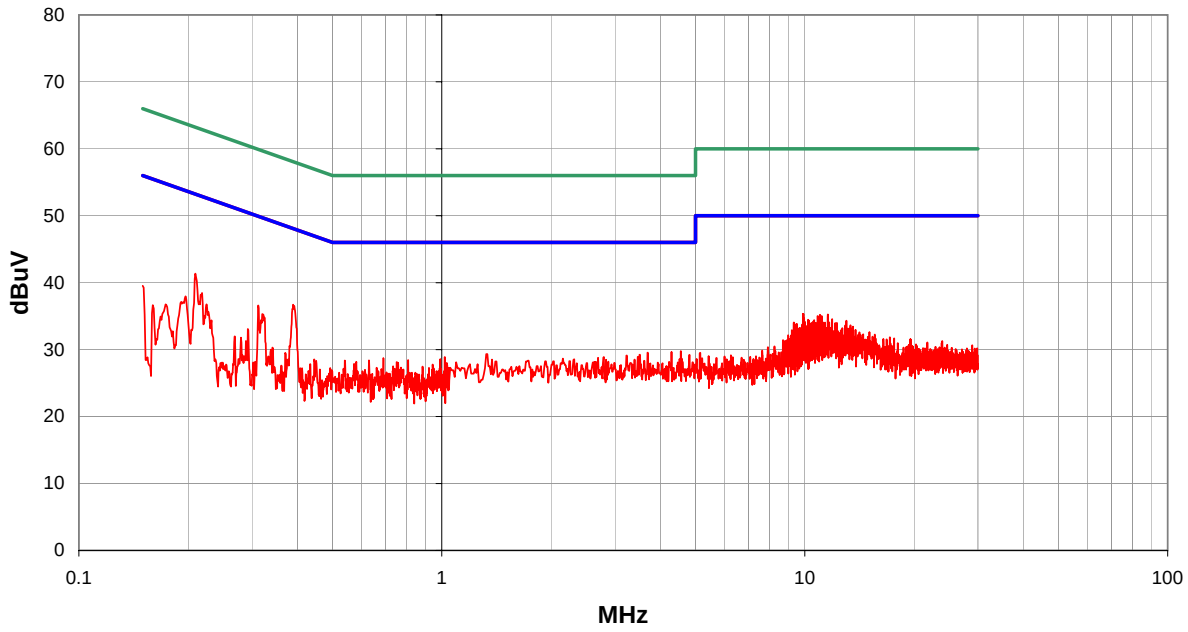
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	L1	5

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.389	16.5			0.0	0.2	20.0				36.7	48.1	-11.4
0.209	21.2			0.0	0.2	20.0				41.4	53.2	-11.9
0.312	16.4			0.0	0.2	20.0				36.6	49.9	-13.3
0.321	15.1			0.0	0.2	20.0				35.3	49.7	-14.4
9.912	14.5			0.0	0.9	20.0				35.4	50.0	-14.6
9.900	14.5			0.0	0.9	20.0				35.4	50.0	-14.6
11.580	14.3			0.0	0.9	20.0				35.2	50.0	-14.8
11.016	14.3			0.0	0.9	20.0				35.2	50.0	-14.8
11.136	14.1			0.0	0.9	20.0				35.0	50.0	-15.0
10.860	14.1			0.0	0.9	20.0				35.0	50.0	-15.0
10.960	14.0			0.0	0.9	20.0				34.9	50.0	-15.1
10.950	14.0			0.0	0.9	20.0				34.9	50.0	-15.1
9.959	13.8			0.0	0.9	20.0				34.7	50.0	-15.3
11.904	13.6			0.0	1.0	20.0				34.6	50.0	-15.4
10.224	13.6			0.0	0.9	20.0				34.5	50.0	-15.5
10.620	13.5			0.0	0.9	20.0				34.4	50.0	-15.6
10.248	13.5			0.0	0.9	20.0				34.4	50.0	-15.6
10.236	13.5			0.0	0.9	20.0				34.4	50.0	-15.6
9.888	13.5			0.0	0.9	20.0				34.4	50.0	-15.6
13.020	13.3			0.0	1.0	20.0				34.3	50.0	-15.7

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/31/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(g), High channel, Stand alone.

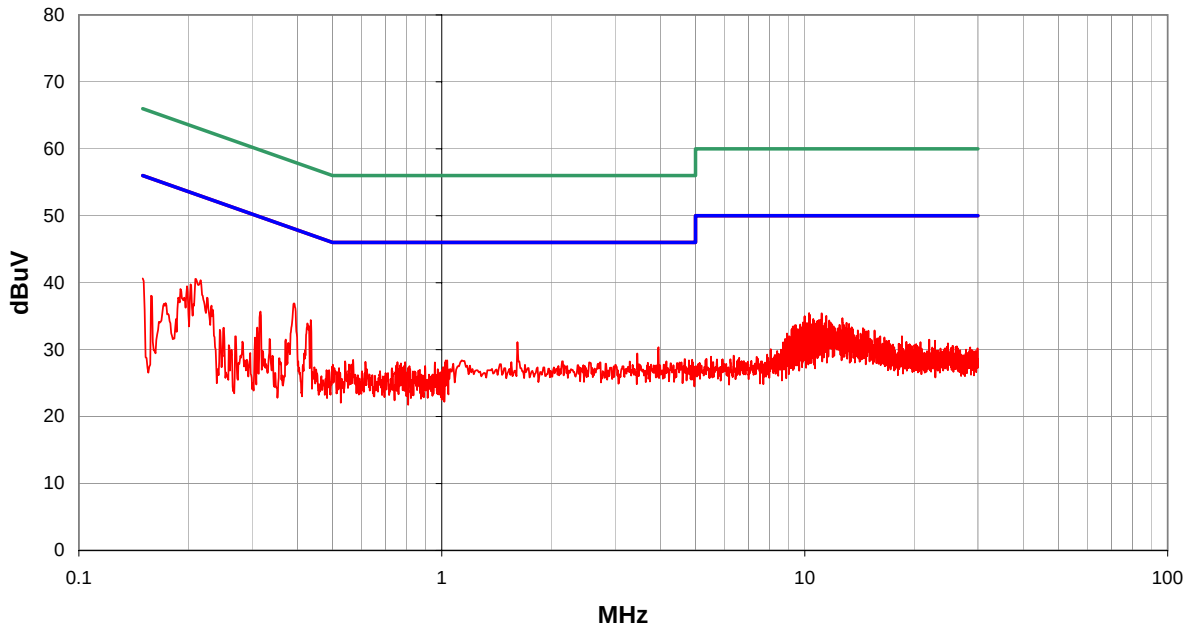
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	L1	6

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.392	16.7			0.0	0.2	20.0				36.9	48.0	-11.1
0.210	20.4			0.0	0.2	20.0				40.6	53.2	-12.6
0.435	14.2			0.0	0.2	20.0				34.4	47.2	-12.7
0.426	13.7			0.0	0.2	20.0				33.9	47.3	-13.4
0.203	19.6			0.0	0.2	20.0				39.8	53.5	-13.7
0.317	15.5			0.0	0.2	20.0				35.7	49.8	-14.1
0.199	19.3			0.0	0.2	20.0				39.5	53.7	-14.2
10.280	14.6			0.0	0.9	20.0				35.5	50.0	-14.5
11.136	14.5			0.0	0.9	20.0				35.4	50.0	-14.6
10.344	14.3			0.0	0.9	20.0				35.2	50.0	-14.8
0.226	17.6			0.0	0.2	20.0				37.8	52.6	-14.8
1.615	10.7			0.0	0.4	20.0				31.1	46.0	-14.9
11.472	14.1			0.0	0.9	20.0				35.0	50.0	-15.0
0.191	18.9			0.0	0.2	20.0				39.1	54.0	-15.0
10.008	14.1			0.0	0.9	20.0				35.0	50.0	-15.0
9.996	14.1			0.0	0.9	20.0				35.0	50.0	-15.0
10.332	14.0			0.0	0.9	20.0				34.9	50.0	-15.1
12.696	13.7			0.0	1.0	20.0				34.7	50.0	-15.3
0.150	20.5			0.0	0.1	20.0				40.6	56.0	-15.4
10.560	13.7			0.0	0.9	20.0				34.6	50.0	-15.4

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/31/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(b), Low channel, Stand alone.

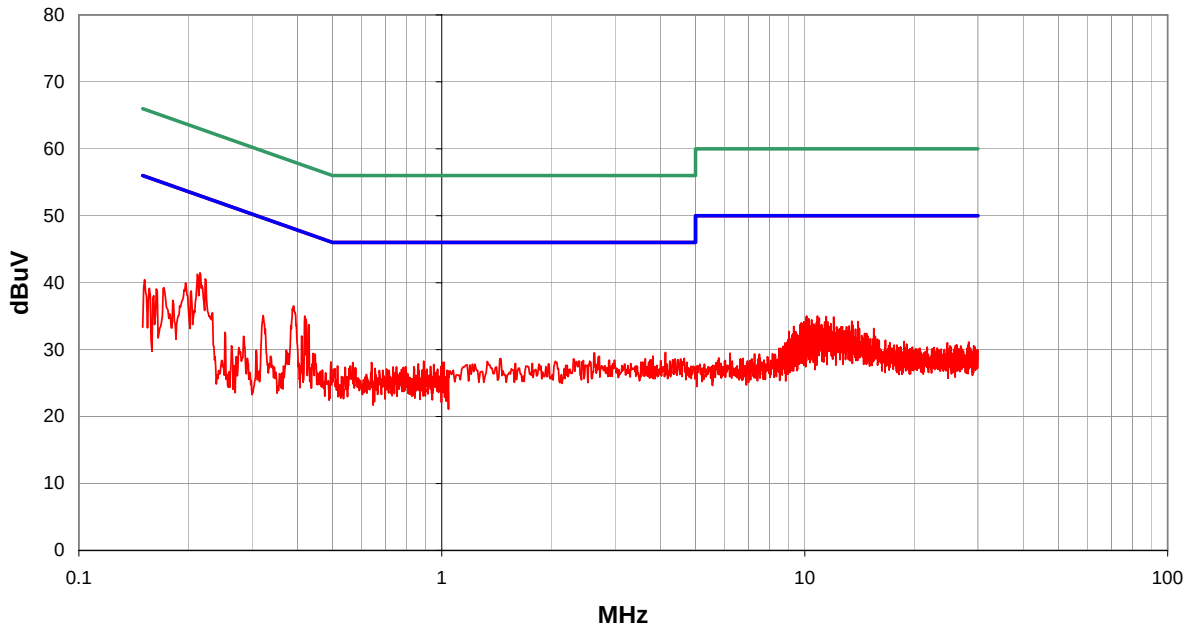
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	N	7

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.216	21.3			0.0	0.2	20.0				41.5	53.0	-11.5
0.390	16.3			0.0	0.2	20.0				36.5	48.1	-11.5
0.212	21.1			0.0	0.2	20.0				41.3	53.1	-11.9
0.223	20.4			0.0	0.2	20.0				40.6	52.7	-12.1
0.419	14.8			0.0	0.2	20.0				35.0	47.5	-12.4
0.423	14.3			0.0	0.2	20.0				34.5	47.4	-12.9
0.430	13.5			0.0	0.2	20.0				33.7	47.3	-13.5
0.197	19.8			0.0	0.2	20.0				40.0	53.7	-13.8
0.322	14.9			0.0	0.2	20.0				35.1	49.7	-14.6
0.204	18.6			0.0	0.2	20.0				38.8	53.4	-14.7
10.840	14.1			0.0	0.9	20.0				35.0	50.0	-15.0
10.128	14.1			0.0	0.9	20.0				35.0	50.0	-15.0
10.116	14.1			0.0	0.9	20.0				35.0	50.0	-15.0
11.460	14.0			0.0	0.9	20.0				34.9	50.0	-15.1
12.024	13.9			0.0	1.0	20.0				34.9	50.0	-15.1
10.960	13.8			0.0	0.9	20.0				34.7	50.0	-15.3
10.248	13.7			0.0	0.9	20.0				34.6	50.0	-15.4
10.236	13.7			0.0	0.9	20.0				34.6	50.0	-15.4
0.152	20.3			0.0	0.1	20.0				40.4	55.9	-15.5
10.280	13.6			0.0	0.9	20.0				34.5	50.0	-15.5

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/31/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(b), Mid channel, Stand alone.

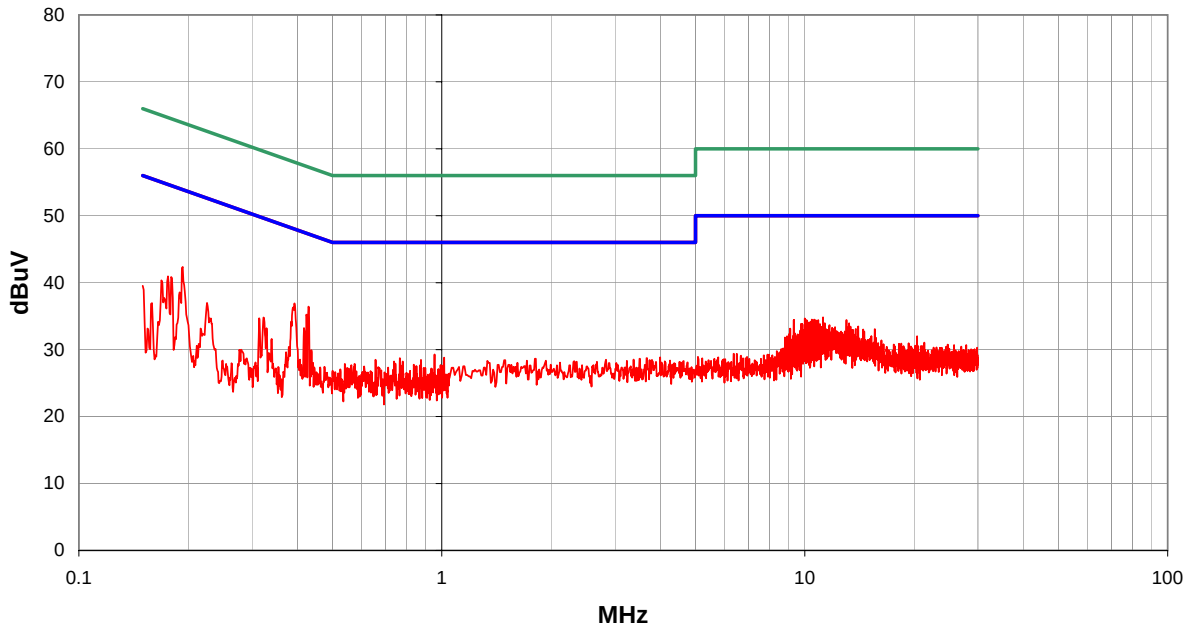
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	N	8

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.429	16.2			0.0	0.2	20.0				36.4	47.3	-10.8
0.393	16.7			0.0	0.2	20.0				36.9	48.0	-11.1
0.193	22.2			0.0	0.2	20.0				42.4	53.9	-11.5
0.424	15.0			0.0	0.2	20.0				35.2	47.4	-12.2
0.180	20.7			0.0	0.2	20.0				40.9	54.5	-13.6
0.176	20.8			0.0	0.2	20.0				41.0	54.7	-13.7
0.417	13.0			0.0	0.2	20.0				33.2	47.5	-14.3
0.169	20.2			0.0	0.1	20.0				40.3	55.0	-14.7
0.323	14.6			0.0	0.2	20.0				34.8	49.6	-14.8
11.232	13.9			0.0	0.9	20.0				34.8	50.0	-15.2
0.314	14.5			0.0	0.2	20.0				34.7	49.9	-15.2
10.008	13.8			0.0	0.9	20.0				34.7	50.0	-15.3
10.620	13.6			0.0	0.9	20.0				34.5	50.0	-15.5
10.464	13.6			0.0	0.9	20.0				34.5	50.0	-15.5
9.336	13.6			0.0	0.8	20.0				34.4	50.0	-15.6
9.324	13.6			0.0	0.8	20.0				34.4	50.0	-15.6
13.032	13.4			0.0	1.0	20.0				34.4	50.0	-15.6
10.896	13.5			0.0	0.9	20.0				34.4	50.0	-15.6
10.720	13.5			0.0	0.9	20.0				34.4	50.0	-15.6
10.128	13.5			0.0	0.9	20.0				34.4	50.0	-15.6

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/31/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(b), High channel, Stand alone.

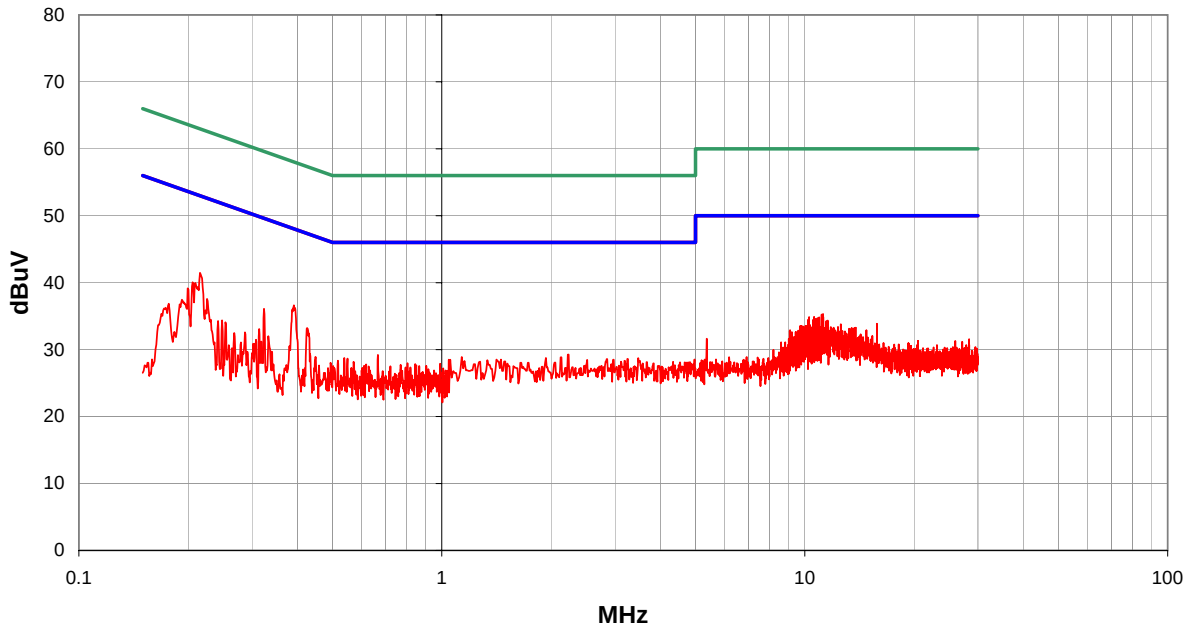
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	N	9

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.391	16.4			0.0	0.2	20.0				36.6	48.0	-11.4
0.216	21.3			0.0	0.2	20.0				41.5	53.0	-11.5
0.206	19.9			0.0	0.2	20.0				40.1	53.4	-13.3
0.324	15.9			0.0	0.2	20.0				36.1	49.6	-13.5
0.425	13.0			0.0	0.2	20.0				33.2	47.3	-14.1
0.200	19.0			0.0	0.2	20.0				39.2	53.6	-14.5
11.232	14.4			0.0	0.9	20.0				35.3	50.0	-14.7
11.136	14.3			0.0	0.9	20.0				35.2	50.0	-14.8
0.226	17.4			0.0	0.2	20.0				37.6	52.6	-15.0
10.610	14.0			0.0	0.9	20.0				34.9	50.0	-15.1
10.280	14.0			0.0	0.9	20.0				34.9	50.0	-15.1
10.960	13.9			0.0	0.9	20.0				34.8	50.0	-15.2
10.840	13.8			0.0	0.9	20.0				34.7	50.0	-15.3
10.740	13.7			0.0	0.9	20.0				34.6	50.0	-15.4
10.584	13.6			0.0	0.9	20.0				34.5	50.0	-15.5
10.572	13.6			0.0	0.9	20.0				34.5	50.0	-15.5
10.224	13.6			0.0	0.9	20.0				34.5	50.0	-15.5
10.800	13.5			0.0	0.9	20.0				34.4	50.0	-15.6
10.788	13.5			0.0	0.9	20.0				34.4	50.0	-15.6
11.568	13.4			0.0	0.9	20.0				34.3	50.0	-15.7

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/31/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(g), Low channel, Stand alone.

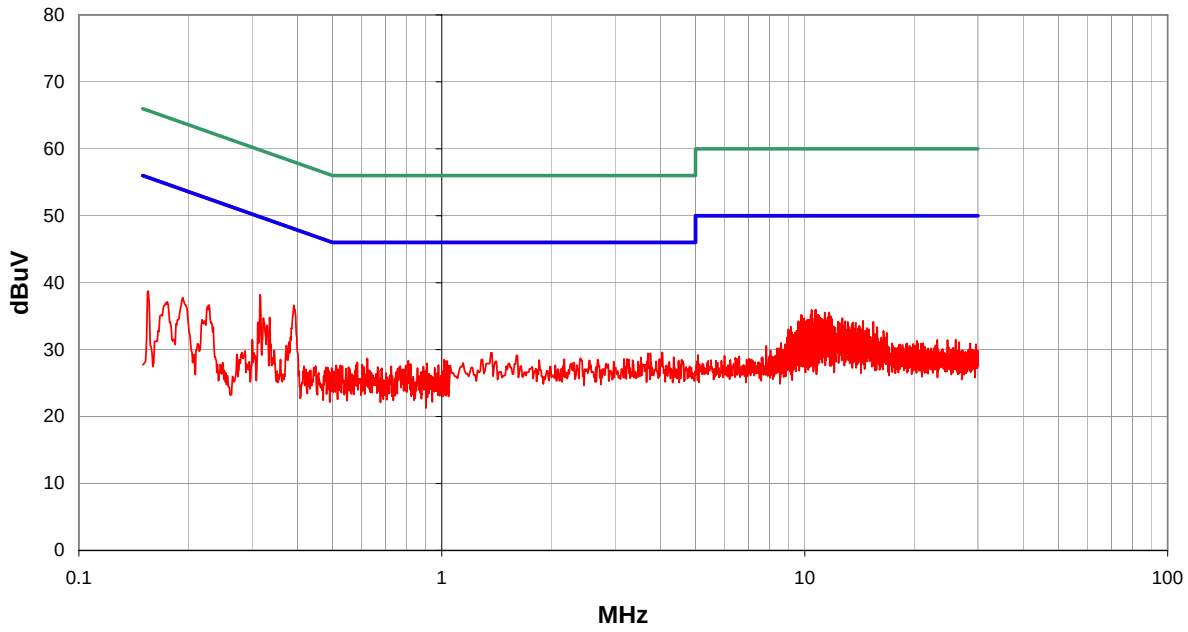
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	N	10

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.391	16.4			0.0	0.2	20.0				36.6	48.0	-11.4
0.316	18.0			0.0	0.2	20.0				38.2	49.8	-11.6
10.720	15.1			0.0	0.9	20.0				36.0	50.0	-14.0
10.464	15.0			0.0	0.9	20.0				35.9	50.0	-14.1
10.452	15.0			0.0	0.9	20.0				35.9	50.0	-14.1
10.680	14.9			0.0	0.9	20.0				35.8	50.0	-14.2
11.688	14.6			0.0	1.0	20.0				35.6	50.0	-14.4
11.352	14.6			0.0	0.9	20.0				35.5	50.0	-14.5
0.335	14.6			0.0	0.2	20.0				34.8	49.3	-14.5
10.800	14.3			0.0	0.9	20.0				35.2	50.0	-14.8
10.788	14.3			0.0	0.9	20.0				35.2	50.0	-14.8
10.400	14.3			0.0	0.9	20.0				35.2	50.0	-14.8
10.390	14.3			0.0	0.9	20.0				35.2	50.0	-14.8
9.792	14.3			0.0	0.9	20.0				35.2	50.0	-14.8
9.780	14.3			0.0	0.9	20.0				35.2	50.0	-14.8
10.920	14.2			0.0	0.9	20.0				35.1	50.0	-14.9
10.908	14.2			0.0	0.9	20.0				35.1	50.0	-14.9
0.323	14.5			0.0	0.2	20.0				34.7	49.6	-14.9
11.808	14.0			0.0	1.0	20.0				35.0	50.0	-15.0
11.568	13.9			0.0	0.9	20.0				34.8	50.0	-15.2

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/31/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(g), Mid channel, Stand alone.

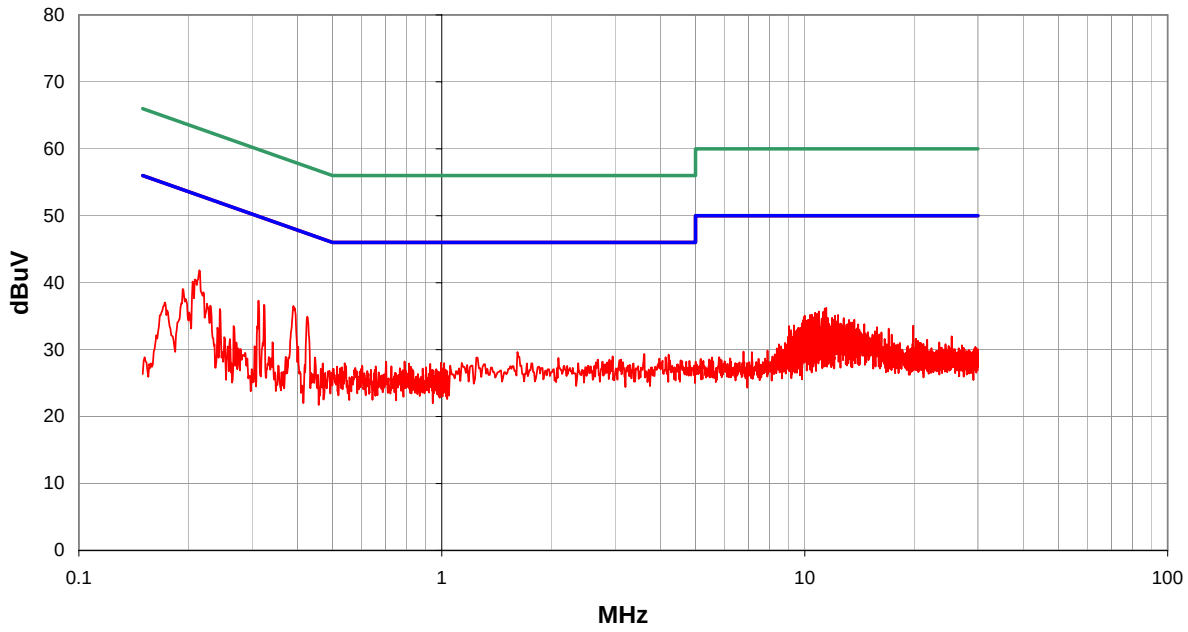
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	N	11

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.215	21.7			0.0	0.2	20.0				41.9	53.0	-11.2
0.390	16.3			0.0	0.2	20.0				36.5	48.1	-11.5
0.426	14.7			0.0	0.2	20.0				34.9	47.3	-12.4
0.313	17.1			0.0	0.2	20.0				37.3	49.9	-12.6
0.324	16.5			0.0	0.2	20.0				36.7	49.6	-12.9
0.206	20.0			0.0	0.2	20.0				40.2	53.4	-13.2
11.460	15.3			0.0	0.9	20.0				36.2	50.0	-13.8
11.352	15.2			0.0	0.9	20.0				36.1	50.0	-13.9
10.940	14.8			0.0	0.9	20.0				35.7	50.0	-14.3
11.256	14.7			0.0	0.9	20.0				35.6	50.0	-14.4
10.680	14.6			0.0	0.9	20.0				35.5	50.0	-14.5
10.896	14.5			0.0	0.9	20.0				35.4	50.0	-14.6
10.720	14.5			0.0	0.9	20.0				35.4	50.0	-14.6
10.740	14.3			0.0	0.9	20.0				35.2	50.0	-14.8
10.464	14.3			0.0	0.9	20.0				35.2	50.0	-14.8
10.452	14.3			0.0	0.9	20.0				35.2	50.0	-14.8
12.360	14.2			0.0	1.0	20.0				35.2	50.0	-14.8
10.344	14.3			0.0	0.9	20.0				35.2	50.0	-14.8
0.193	18.9			0.0	0.2	20.0				39.1	53.9	-14.8
12.120	14.1			0.0	1.0	20.0				35.1	50.0	-14.9

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/31/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	120VAC, 60Hz	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA21 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(g), High channel, Stand alone.

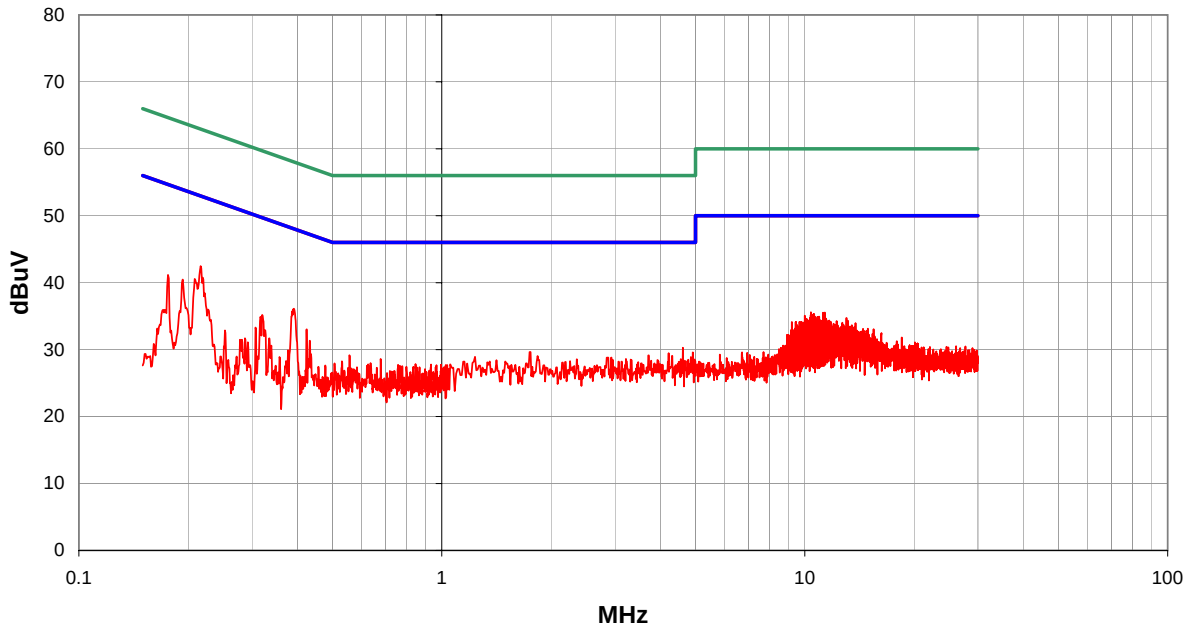
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	N	12

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.217	22.3			0.0	0.2	20.0				42.5	52.9	-10.5
0.391	15.9			0.0	0.2	20.0				36.1	48.0	-11.9
0.193	20.3			0.0	0.2	20.0				40.5	53.9	-13.4
0.176	21.0			0.0	0.2	20.0				41.2	54.7	-13.5
0.425	12.8			0.0	0.2	20.0				33.0	47.4	-14.3
10.400	14.7			0.0	0.9	20.0				35.6	50.0	-14.4
11.352	14.6			0.0	0.9	20.0				35.5	50.0	-14.5
11.232	14.6			0.0	0.9	20.0				35.5	50.0	-14.5
0.320	15.0			0.0	0.2	20.0				35.2	49.7	-14.5
10.610	14.4			0.0	0.9	20.0				35.3	50.0	-14.7
10.584	14.4			0.0	0.9	20.0				35.3	50.0	-14.7
10.572	14.4			0.0	0.9	20.0				35.3	50.0	-14.7
10.390	14.3			0.0	0.9	20.0				35.2	50.0	-14.8
0.317	14.7			0.0	0.2	20.0				34.9	49.8	-14.9
10.008	14.2			0.0	0.9	20.0				35.1	50.0	-14.9
10.960	14.0			0.0	0.9	20.0				34.9	50.0	-15.1
10.950	14.0			0.0	0.9	20.0				34.9	50.0	-15.1
10.840	14.0			0.0	0.9	20.0				34.9	50.0	-15.1
10.680	14.0			0.0	0.9	20.0				34.9	50.0	-15.1
10.560	13.9			0.0	0.9	20.0				34.8	50.0	-15.2

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/31/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(b), Low channel, Stand alone.

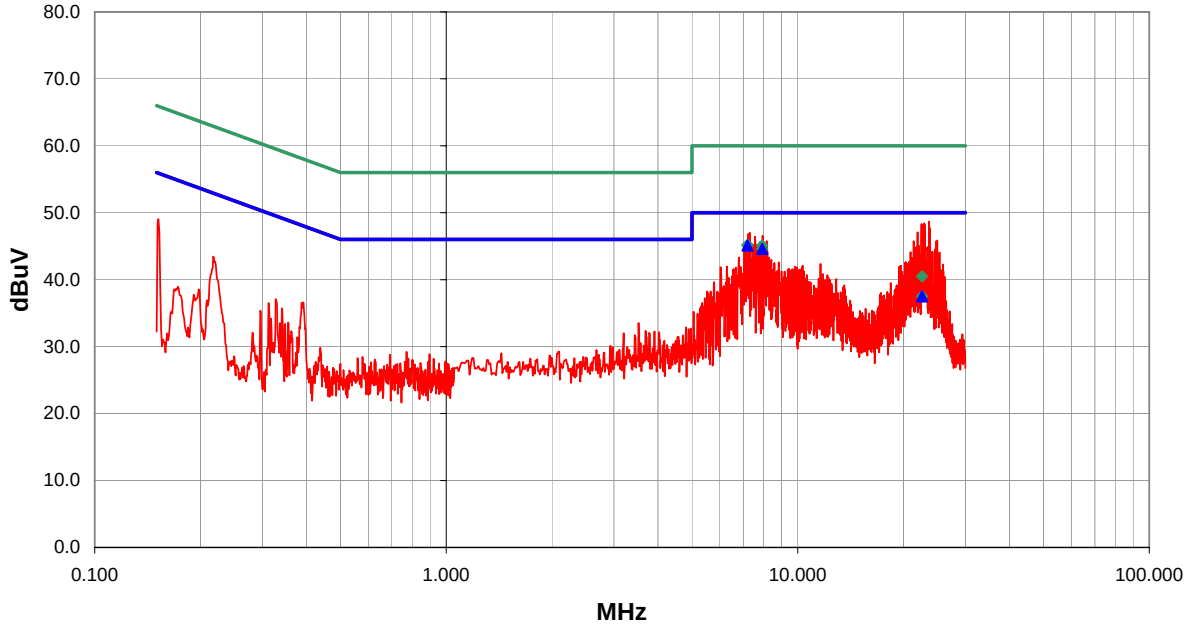
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	L1	13

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
7.196	24.4			0.0	0.7	20.0		AV		45.1	50.0	-4.9
7.923	23.8			0.0	0.8	20.0		AV		44.6	50.0	-5.4
22.576	16.0			0.0	1.5	20.0		AV		37.5	50.0	-12.5
7.196	24.5			0.0	0.7	20.0		QP		45.2	60.0	-14.8
7.923	24.3			0.0	0.8	20.0		QP		45.1	60.0	-14.9
22.576	19.0			0.0	1.5	20.0		QP		40.5	60.0	-19.5
23.642	27.1			0.0	1.6	20.0				48.7	50.0	-1.3
22.905	26.9			0.0	1.5	20.0				48.4	50.0	-1.6
22.498	26.8			0.0	1.5	20.0				48.3	50.0	-1.7
22.938	26.7			0.0	1.5	20.0				48.2	50.0	-1.8
22.564	26.7			0.0	1.5	20.0				48.2	50.0	-1.8
22.652	26.5			0.0	1.5	20.0				48.0	50.0	-2.0
23.752	26.1			0.0	1.6	20.0				47.7	50.0	-2.3
21.915	25.6			0.0	1.5	20.0				47.1	50.0	-2.9
7.308	26.3			0.0	0.7	20.0				47.0	50.0	-3.0
7.218	26.1			0.0	0.7	20.0				46.8	50.0	-3.2
23.004	25.2			0.0	1.5	20.0				46.7	50.0	-3.3
22.850	25.1			0.0	1.5	20.0				46.6	50.0	-3.4
7.938	25.8			0.0	0.8	20.0				46.6	50.0	-3.4
7.558	25.7			0.0	0.7	20.0				46.4	50.0	-3.6

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/31/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(b), Mid channel, Stand alone.

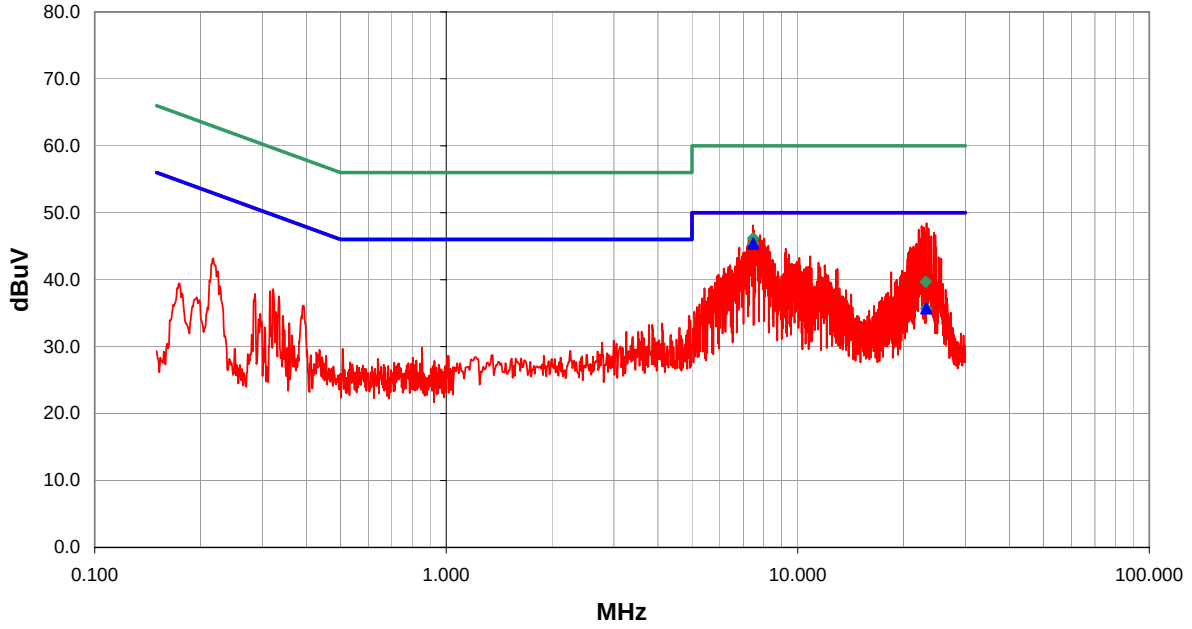
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	L1	14

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
7.473	24.7			0.0	0.7	20.0		AV		45.4	50.0	-4.6
23.200	14.2			0.0	1.5	20.0		AV		35.7	50.0	-14.3
7.473	25.5			0.0	0.7	20.0		QP		46.2	60.0	-13.8
23.134	18.2			0.0	1.5	20.0		QP		39.7	60.0	-20.3
23.257	26.9			0.0	1.6	20.0				48.5	50.0	-1.5
7.468	27.4			0.0	0.7	20.0				48.1	50.0	-1.9
22.509	26.5			0.0	1.5	20.0				48.0	50.0	-2.0
22.828	26.3			0.0	1.5	20.0				47.8	50.0	-2.2
23.554	26.1			0.0	1.6	20.0				47.7	50.0	-2.3
22.080	26.0			0.0	1.5	20.0				47.5	50.0	-2.5
7.508	26.6			0.0	0.7	20.0				47.3	50.0	-2.7
22.960	25.6			0.0	1.5	20.0				47.1	50.0	-2.9
24.434	25.4			0.0	1.6	20.0				47.0	50.0	-3.0
7.808	25.9			0.0	0.8	20.0				46.7	50.0	-3.3
24.632	25.0			0.0	1.6	20.0				46.6	50.0	-3.4
22.564	25.0			0.0	1.5	20.0				46.5	50.0	-3.5
23.994	24.9			0.0	1.6	20.0				46.5	50.0	-3.5
23.686	24.7			0.0	1.6	20.0				46.3	50.0	-3.7
7.778	25.5			0.0	0.8	20.0				46.3	50.0	-3.7
7.718	25.5			0.0	0.7	20.0				46.2	50.0	-3.8

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/31/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(b), High channel, Stand alone.

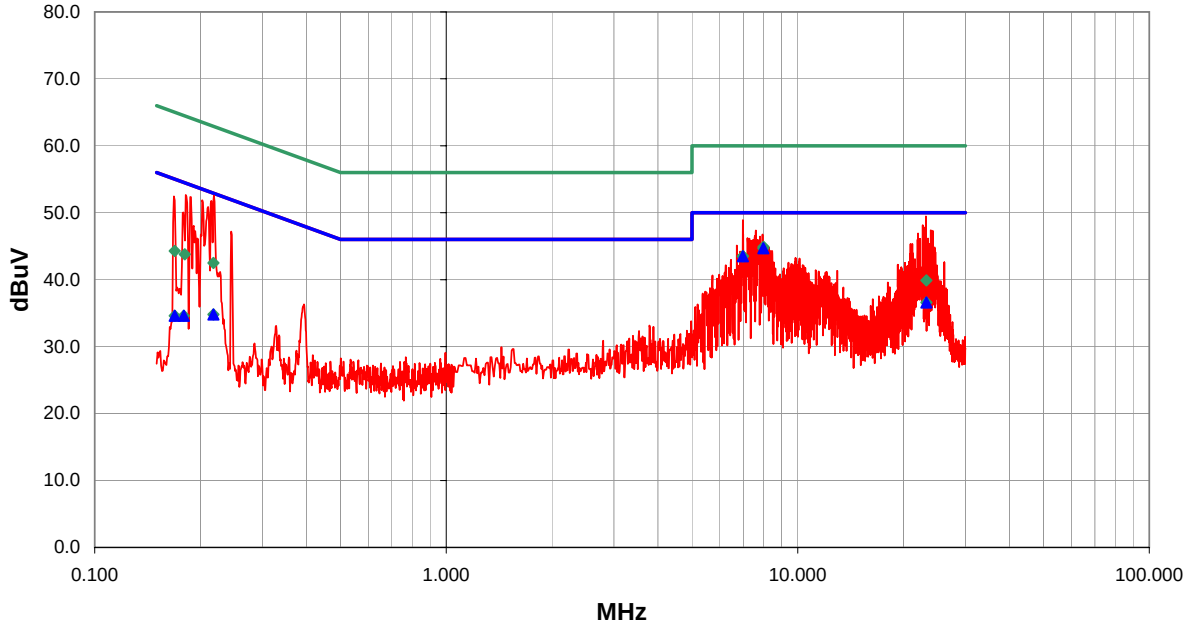
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	L1	15

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
7.983	23.9			0.0	0.8	20.0		AV		44.7	50.0	-5.3
6.983	22.8			0.0	0.7	20.0		AV		43.5	50.0	-6.5
23.224	15.1			0.0	1.5	20.0		AV		36.6	50.0	-13.4
0.218	14.8			0.0	0.0	20.0		AV		34.8	52.9	-18.1
0.179	14.6			0.0	0.0	20.0		AV		34.6	54.5	-19.9
0.169	14.6			0.0	0.0	20.0		AV		34.6	55.0	-20.4
7.988	24.1			0.0	0.8	20.0		QP		44.9	60.0	-15.1
6.983	22.8			0.0	0.7	20.0		QP		43.5	60.0	-16.5
23.224	18.4			0.0	1.5	20.0		QP		39.9	60.0	-20.1
0.218	22.5			0.0	0.0	20.0		QP		42.5	62.9	-20.4
0.180	23.8			0.0	0.0	20.0		QP		43.8	64.5	-20.7
0.169	24.3			0.0	0.0	20.0		QP		44.3	65.0	-20.7
0.218	32.4			0.0	0.2	20.0				52.6	52.9	-0.3
23.158	27.9			0.0	1.5	20.0				49.4	50.0	-0.6
6.978	28.2			0.0	0.7	20.0				48.9	50.0	-1.1
0.215	31.6			0.0	0.2	20.0				51.8	53.0	-1.3
0.202	31.7			0.0	0.2	20.0				51.9	53.5	-1.7
0.182	32.5			0.0	0.2	20.0				52.7	54.4	-1.8
0.188	32.2			0.0	0.2	20.0				52.4	54.1	-1.8
22.674	26.6			0.0	1.5	20.0				48.1	50.0	-1.9

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/31/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(g), Low channel, Stand alone.

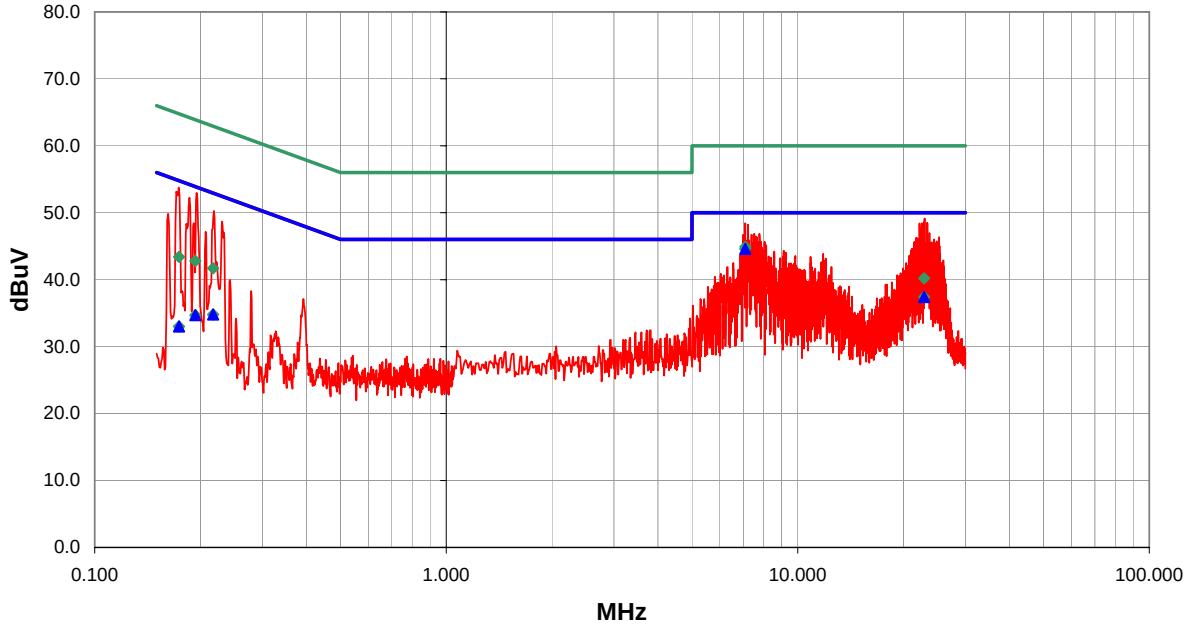
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	L1	16

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
7.094	23.9			0.0	0.7	20.0		AV		44.6	50.0	-5.4
22.897	15.9			0.0	1.5	20.0		AV		37.4	50.0	-12.6
0.217	14.8			0.0	0.0	20.0		AV		34.8	52.9	-18.1
0.193	14.7			0.0	0.0	20.0		AV		34.7	53.9	-19.2
0.174	13.0			0.0	0.0	20.0		AV		33.0	54.8	-21.8
7.096	24.2			0.0	0.7	20.0		QP		44.9	60.0	-15.1
22.897	18.7			0.0	1.5	20.0		QP		40.2	60.0	-19.8
0.193	22.8			0.0	0.0	20.0		QP		42.8	63.9	-21.1
0.217	21.7			0.0	0.0	20.0		QP		41.7	62.9	-21.2
0.174	23.4			0.0	0.0	20.0		QP		43.4	64.8	-21.4
22.960	27.6			0.0	1.5	20.0				49.1	50.0	-0.9
0.195	32.8			0.0	0.2	20.0				53.0	53.8	-0.9
0.173	33.6			0.0	0.1	20.0				53.7	54.8	-1.0
22.872	27.0			0.0	1.5	20.0				48.5	50.0	-1.5
23.378	26.9			0.0	1.6	20.0				48.5	50.0	-1.5
23.312	26.9			0.0	1.6	20.0				48.5	50.0	-1.5
22.564	26.9			0.0	1.5	20.0				48.4	50.0	-1.6
7.088	27.7			0.0	0.7	20.0				48.4	50.0	-1.6
22.212	26.9			0.0	1.5	20.0				48.4	50.0	-1.6
7.218	27.5			0.0	0.7	20.0				48.2	50.0	-1.8

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/31/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(g), Mid channel, Stand alone.

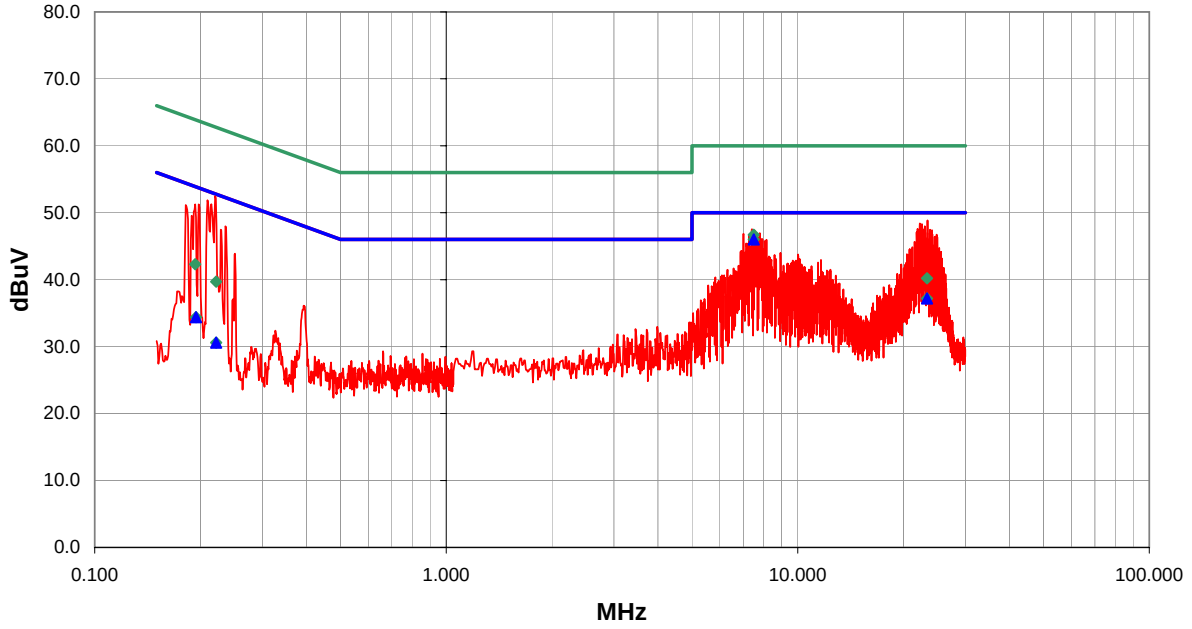
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	L1	17

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
7.496	25.3			0.0	0.7	20.0		AV		46.0	50.0	-4.0
23.313	15.6			0.0	1.6	20.0		AV		37.2	50.0	-12.8
0.194	14.4			0.0	0.0	20.0		AV		34.4	53.9	-19.5
0.222	10.6			0.0	0.0	20.0		AV		30.6	52.8	-22.2
7.496	26.0			0.0	0.7	20.0		QP		46.7	60.0	-13.3
23.316	18.6			0.0	1.6	20.0		QP		40.2	60.0	-19.8
0.193	22.3			0.0	0.0	20.0		QP		42.3	63.9	-21.6
0.222	19.7			0.0	0.0	20.0		QP		39.7	62.8	-23.1
0.220	32.3			0.0	0.2	20.0				52.5	52.8	-0.3
23.400	27.3			0.0	1.6	20.0				48.9	50.0	-1.1
0.209	31.7			0.0	0.2	20.0				51.9	53.2	-1.4
22.256	26.9			0.0	1.5	20.0				48.4	50.0	-1.6
22.542	26.8			0.0	1.5	20.0				48.3	50.0	-1.7
0.215	31.1			0.0	0.2	20.0				51.3	53.0	-1.8
22.982	26.4			0.0	1.5	20.0				47.9	50.0	-2.1
21.926	26.1			0.0	1.5	20.0				47.6	50.0	-2.4
0.198	31.1			0.0	0.2	20.0				51.3	53.7	-2.4
7.408	26.8			0.0	0.7	20.0				47.5	50.0	-2.5
22.685	26.0			0.0	1.5	20.0				47.5	50.0	-2.5
23.796	25.9			0.0	1.6	20.0				47.5	50.0	-2.5

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/31/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(g), High channel, Stand alone.

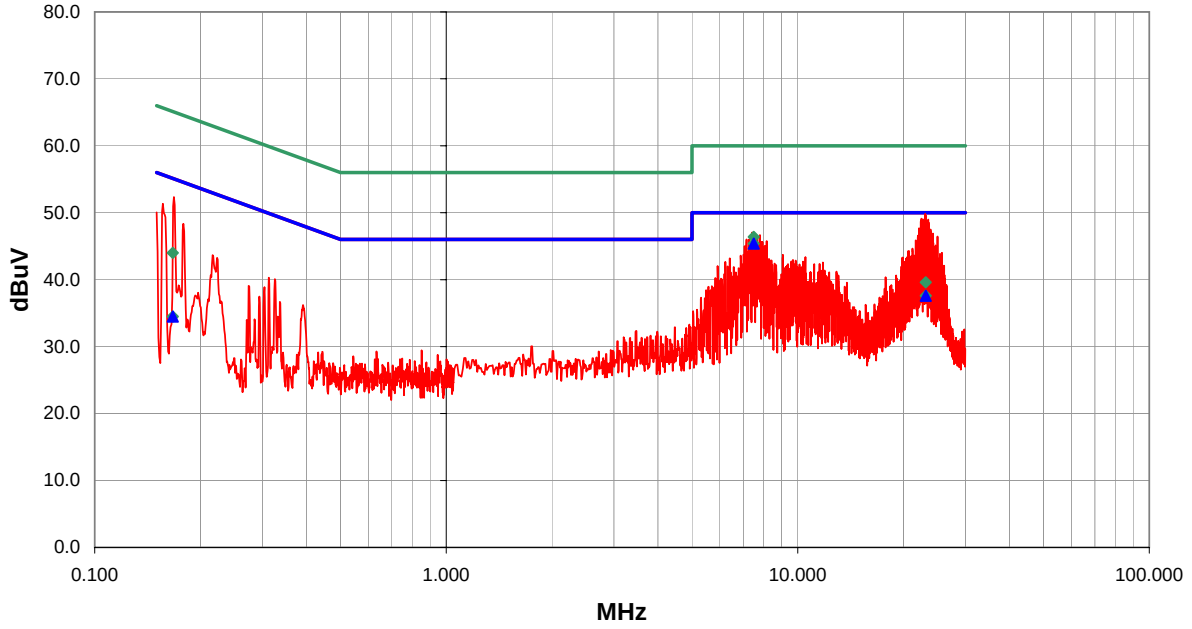
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	L1	18

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
7.500	24.7			0.0	0.7	20.0		AV		45.4	50.0	-4.6
23.117	16.1			0.0	1.5	20.0		AV		37.6	50.0	-12.4
0.167	14.5			0.0	0.0	20.0		AV		34.5	55.1	-20.6
7.500	25.7			0.0	0.7	20.0		QP		46.4	60.0	-13.6
23.117	18.1			0.0	1.5	20.0		QP		39.6	60.0	-20.4
0.167	24.0			0.0	0.0	20.0		QP		44.0	65.1	-21.1
23.059	28.3			0.0	1.5	20.0				49.8	50.0	-0.2
23.136	28.0			0.0	1.5	20.0				49.5	50.0	-0.5
22.487	27.6			0.0	1.5	20.0				49.1	50.0	-0.9
22.696	27.5			0.0	1.5	20.0				49.0	50.0	-1.0
23.510	27.4			0.0	1.6	20.0				49.0	50.0	-1.0
22.388	27.2			0.0	1.5	20.0				48.7	50.0	-1.3
23.554	27.0			0.0	1.6	20.0				48.6	50.0	-1.4
23.202	26.8			0.0	1.5	20.0				48.3	50.0	-1.7
23.114	26.6			0.0	1.5	20.0				48.1	50.0	-1.9
22.850	26.5			0.0	1.5	20.0				48.0	50.0	-2.0
22.124	26.2			0.0	1.5	20.0				47.7	50.0	-2.3
23.862	25.9			0.0	1.6	20.0				47.5	50.0	-2.5
0.168	32.2			0.0	0.1	20.0				52.3	55.1	-2.7
23.928	25.5			0.0	1.6	20.0				47.1	50.0	-2.9

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	07/31/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(b), Low channel, Stand alone.

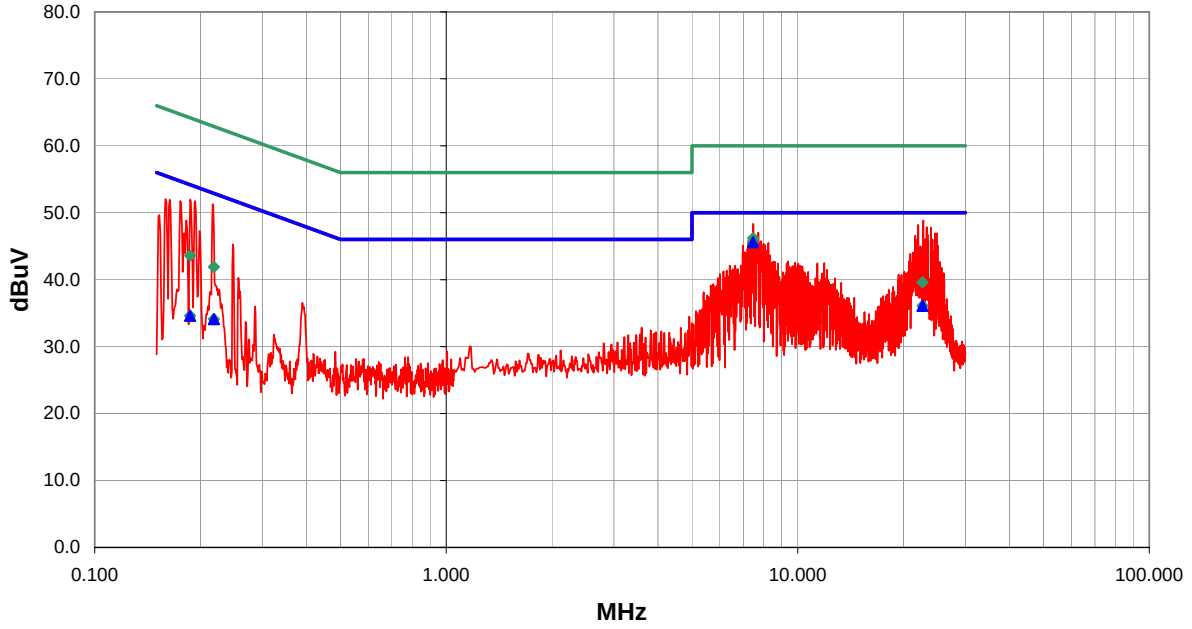
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	N	19

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
7.461	24.9			0.0	0.7	20.0		AV		45.6	50.0	-4.4
22.654	14.6			0.0	1.5	20.0		AV		36.1	50.0	-13.9
0.218	14.1			0.0	0.0	20.0		AV		34.1	52.9	-18.8
0.187	14.6			0.0	0.0	20.0		AV		34.6	54.2	-19.6
7.461	25.5			0.0	0.7	20.0		QP		46.2	60.0	-13.8
22.654	18.1			0.0	1.5	20.0		QP		39.6	60.0	-20.4
0.187	23.6			0.0	0.0	20.0		QP		43.6	64.2	-20.6
0.218	21.9			0.0	0.0	20.0		QP		41.9	62.9	-21.0
22.762	27.3			0.0	1.5	20.0				48.8	50.0	-1.2
7.458	27.6			0.0	0.7	20.0				48.3	50.0	-1.7
0.217	31.1			0.0	0.2	20.0				51.3	52.9	-1.7
22.025	26.7			0.0	1.5	20.0				48.2	50.0	-1.8
0.193	31.6			0.0	0.2	20.0				51.8	53.9	-2.1
23.268	26.3			0.0	1.6	20.0				47.9	50.0	-2.1
23.950	26.2			0.0	1.6	20.0				47.8	50.0	-2.2
0.187	31.8			0.0	0.2	20.0				52.0	54.2	-2.2
7.718	26.3			0.0	0.7	20.0				47.0	50.0	-3.0
0.175	31.6			0.0	0.2	20.0				51.8	54.7	-3.0
24.918	25.3			0.0	1.6	20.0				46.9	50.0	-3.1
24.610	25.3			0.0	1.6	20.0				46.9	50.0	-3.1

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	08/01/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(b), Mid channel, Stand alone.

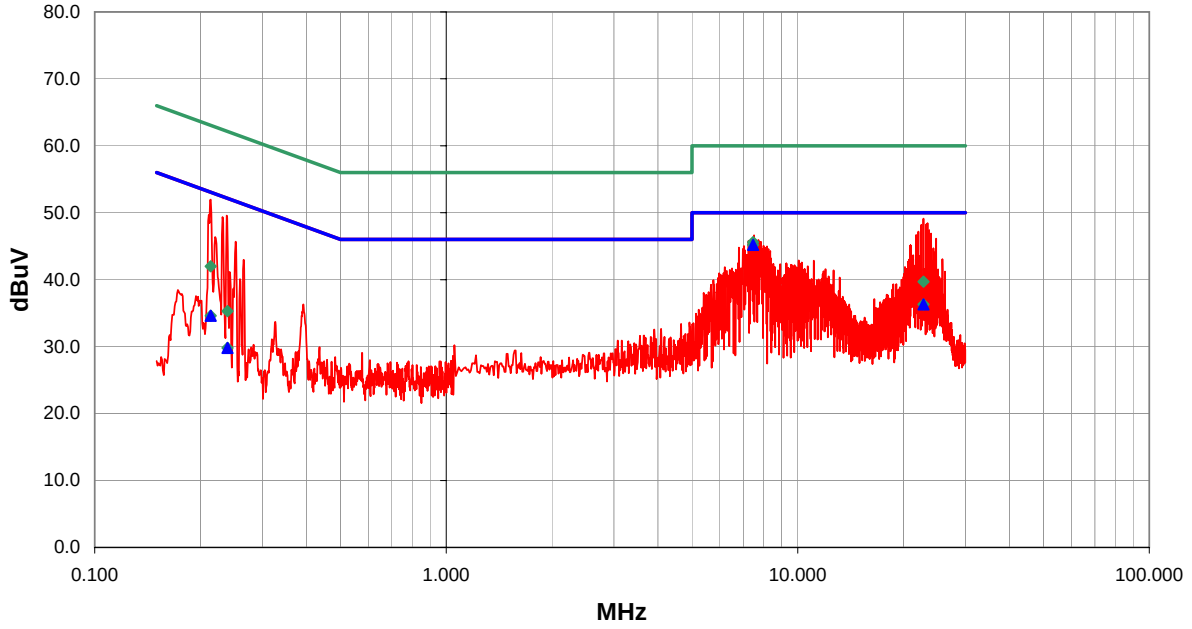
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	N	20

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
7.468	24.5			0.0	0.7	20.0		AV		45.2	50.0	-4.8
22.801	14.8			0.0	1.5	20.0		AV		36.3	50.0	-13.7
0.214	14.6			0.0	0.0	20.0		AV		34.6	53.1	-18.5
0.239	9.8			0.0	0.0	20.0		AV		29.8	52.1	-22.3
7.468	24.9			0.0	0.7	20.0		QP		45.6	60.0	-14.4
22.801	18.2			0.0	1.5	20.0		QP		39.7	60.0	-20.3
0.214	22.0			0.0	0.0	20.0		QP		42.0	63.1	-21.1
0.239	15.3			0.0	0.0	20.0		QP		35.3	62.1	-26.8
22.784	27.6			0.0	1.5	20.0				49.1	50.0	-0.9
0.214	31.8			0.0	0.2	20.0				52.0	53.1	-1.1
23.389	26.9			0.0	1.6	20.0				48.5	50.0	-1.5
23.202	26.7			0.0	1.5	20.0				48.2	50.0	-1.8
22.476	26.7			0.0	1.5	20.0				48.2	50.0	-1.8
0.237	29.4			0.0	0.2	20.0				49.6	52.2	-2.6
23.642	25.8			0.0	1.6	20.0				47.4	50.0	-2.6
22.036	25.7			0.0	1.5	20.0				47.2	50.0	-2.8
0.231	29.2			0.0	0.2	20.0				49.4	52.4	-3.0
23.950	25.3			0.0	1.6	20.0				46.9	50.0	-3.1
21.728	25.2			0.0	1.5	20.0				46.7	50.0	-3.3
7.508	25.9			0.0	0.7	20.0				46.6	50.0	-3.4

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	08/01/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(b), High channel, Stand alone.

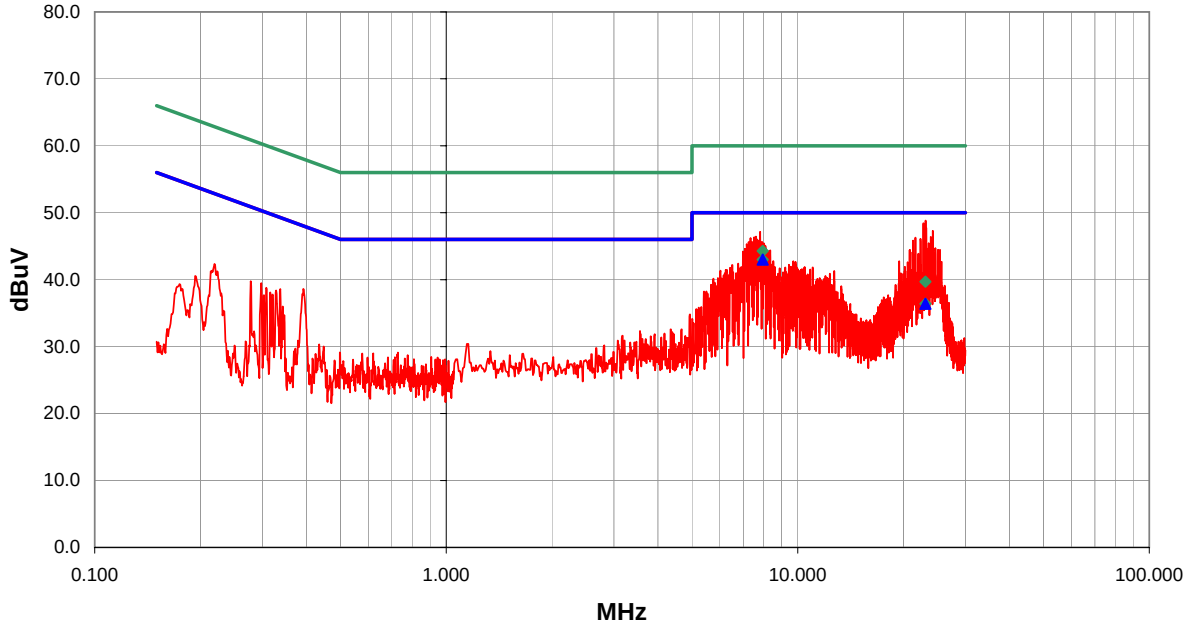
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	N	21

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
7.953	22.2			0.0	0.8	20.0		AV		43.0	50.0	-7.0
23.069	14.9			0.0	1.5	20.0		AV		36.4	50.0	-13.6
7.953	23.5			0.0	0.8	20.0		QP		44.3	60.0	-15.7
23.069	18.2			0.0	1.5	20.0		QP		39.7	60.0	-20.3
23.114	27.3			0.0	1.5	20.0				48.8	50.0	-1.2
22.784	26.9			0.0	1.5	20.0				48.4	50.0	-1.6
23.202	26.2			0.0	1.5	20.0				47.7	50.0	-2.3
24.225	25.7			0.0	1.6	20.0				47.3	50.0	-2.7
7.818	26.4			0.0	0.8	20.0				47.2	50.0	-2.8
7.608	25.7			0.0	0.7	20.0				46.4	50.0	-3.6
23.906	24.8			0.0	1.6	20.0				46.4	50.0	-3.6
7.518	25.6			0.0	0.7	20.0				46.3	50.0	-3.7
21.618	24.8			0.0	1.5	20.0				46.3	50.0	-3.7
23.158	24.7			0.0	1.5	20.0				46.2	50.0	-3.8
7.338	25.5			0.0	0.7	20.0				46.2	50.0	-3.8
22.344	24.6			0.0	1.5	20.0				46.1	50.0	-3.9
7.648	25.3			0.0	0.7	20.0				46.0	50.0	-4.0
21.299	24.4			0.0	1.4	20.0				45.8	50.0	-4.2
7.738	25.1			0.0	0.7	20.0				45.8	50.0	-4.2
7.918	24.9			0.0	0.8	20.0				45.7	50.0	-4.3

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	08/01/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(g), Low channel, Stand alone.

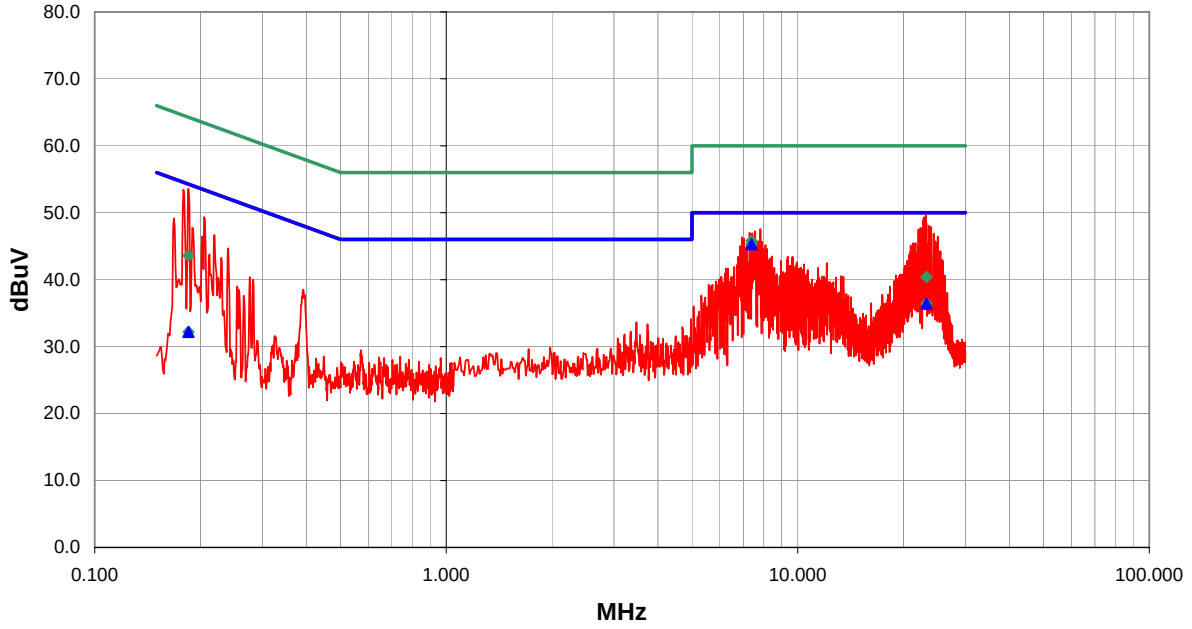
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	N	22

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
7.387	24.6			0.0	0.7	20.0		AV		45.3	50.0	-4.7
23.261	14.8			0.0	1.6	20.0		AV		36.4	50.0	-13.6
0.185	12.2			0.0	0.0	20.0		AV		32.2	54.3	-22.1
7.390	25.1			0.0	0.7	20.0		QP		45.8	60.0	-14.2
23.261	18.8			0.0	1.6	20.0		QP		40.4	60.0	-19.6
0.185	23.6			0.0	0.0	20.0		QP		43.6	64.3	-20.7
23.158	28.1			0.0	1.5	20.0				49.6	50.0	-0.4
22.872	27.8			0.0	1.5	20.0				49.3	50.0	-0.7
0.185	33.4			0.0	0.2	20.0				53.6	54.3	-0.7
22.718	27.4			0.0	1.5	20.0				48.9	50.0	-1.1
0.179	33.3			0.0	0.2	20.0				53.5	54.5	-1.1
23.224	26.8			0.0	1.5	20.0				48.3	50.0	-1.7
23.598	26.5			0.0	1.6	20.0				48.1	50.0	-1.9
23.906	26.3			0.0	1.6	20.0				47.9	50.0	-2.1
22.476	26.2			0.0	1.5	20.0				47.7	50.0	-2.3
22.344	26.2			0.0	1.5	20.0				47.7	50.0	-2.3
22.784	26.1			0.0	1.5	20.0				47.6	50.0	-2.4
7.828	26.8			0.0	0.8	20.0				47.6	50.0	-2.4
22.058	26.0			0.0	1.5	20.0				47.5	50.0	-2.5
7.558	26.5			0.0	0.7	20.0				47.2	50.0	-2.8

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	08/01/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(g), Mid channel, Stand alone.

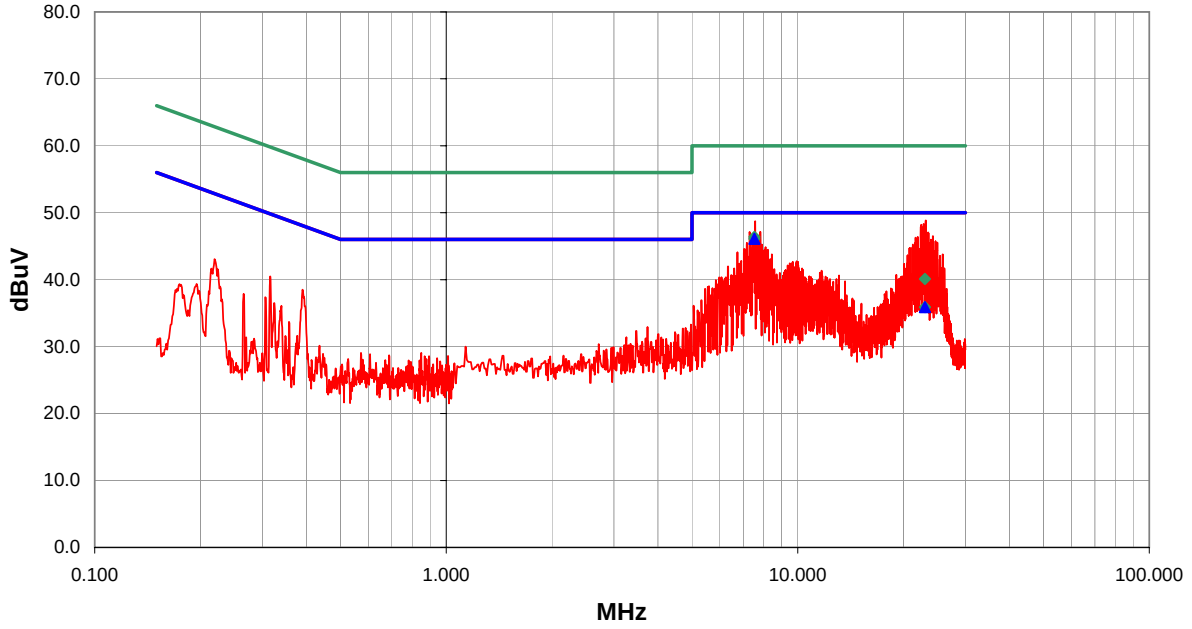
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	N	23

Other

Tested By: Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
7.524	25.4			0.0	0.7	20.0		AV		46.1	50.0	-3.9
23.002	14.4			0.0	1.5	20.0		AV		35.9	50.0	-14.1
7.524	25.7			0.0	0.7	20.0		QP		46.4	60.0	-13.6
23.005	18.6			0.0	1.5	20.0		QP		40.1	60.0	-19.9
23.136	27.3			0.0	1.5	20.0				48.8	50.0	-1.2
7.568	28.0			0.0	0.7	20.0				48.7	50.0	-1.3
22.806	26.8			0.0	1.5	20.0				48.3	50.0	-1.7
22.454	26.7			0.0	1.5	20.0				48.2	50.0	-1.8
22.388	26.4			0.0	1.5	20.0				47.9	50.0	-2.1
22.674	26.3			0.0	1.5	20.0				47.8	50.0	-2.2
22.432	25.7			0.0	1.5	20.0				47.2	50.0	-2.8
7.828	26.4			0.0	0.8	20.0				47.2	50.0	-2.8
7.298	26.4			0.0	0.7	20.0				47.1	50.0	-2.9
23.488	25.5			0.0	1.6	20.0				47.1	50.0	-2.9
23.554	25.4			0.0	1.6	20.0				47.0	50.0	-3.0
22.740	25.1			0.0	1.5	20.0				46.6	50.0	-3.4
24.236	24.9			0.0	1.6	20.0				46.5	50.0	-3.5
7.658	25.7			0.0	0.7	20.0				46.4	50.0	-3.6
21.948	24.9			0.0	1.5	20.0				46.4	50.0	-3.6
21.640	24.8			0.0	1.5	20.0				46.3	50.0	-3.7

NORTHWEST EMC

CONDUCTED EMISSIONS DATA SHEET

REV df3.11 06/23/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	08/01/03
Customer:	INTERMEC Technologies			Temperature:	80
Attendees:				Humidity:	35%
Cust. Ref. No.:				Barometric Pressure	29.9
Tested by:	Holly Ashkannejhad	Power:	DC over e-net	Job Site:	EV01

TEST SPECIFICATIONS

Specification:	FCC 15.207	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

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

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

COMMENTS

Installed in WA22 Access Point. 063365 Yagi.

EUT OPERATING MODES

802.11(g), High channel, Stand alone.

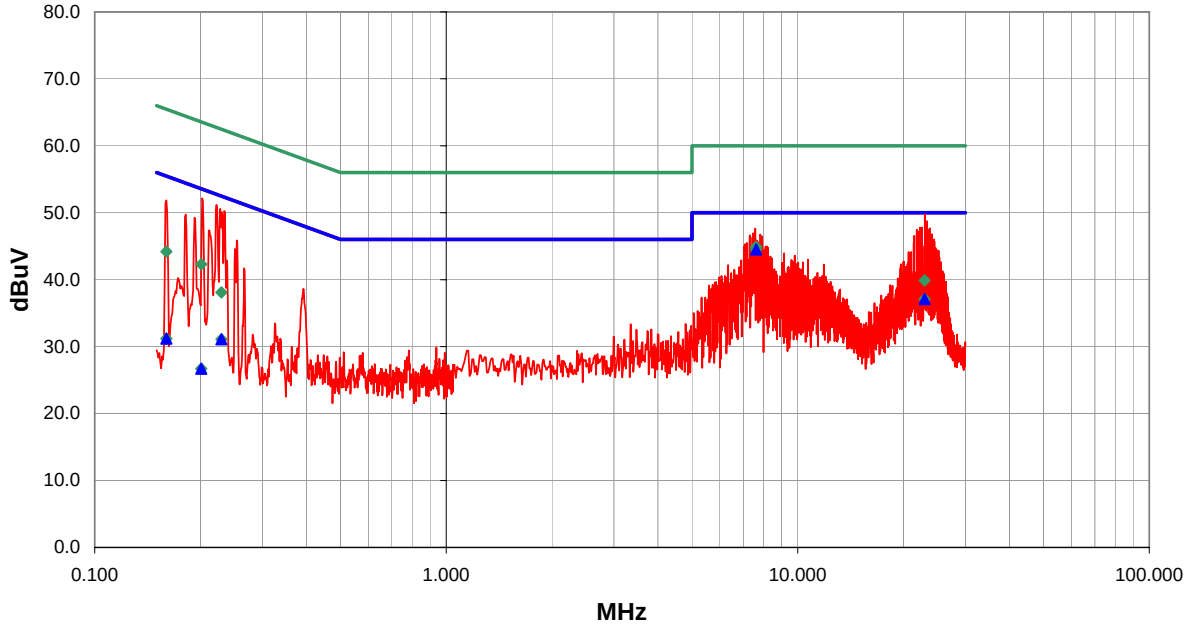
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Line	Run #
Pass	N	24

Other

Tested By:



Freq (MHz)	Amplitude (dBuV)			Transducer (dB)	Cable (dB)	External Attenuation (dB)		Detector (blank equal peaks [PK] from scan)		Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
7.613	23.8			0.0	0.7	20.0		AV		44.5	50.0	-5.5
22.965	15.6			0.0	1.5	20.0		AV		37.1	50.0	-12.9
0.229	11.1			0.0	0.0	20.0		AV		31.1	52.5	-21.4
0.160	11.2			0.0	0.0	20.0		AV		31.2	55.5	-24.3
0.201	6.7			0.0	0.0	20.0		AV		26.7	53.6	-26.9
7.613	24.2			0.0	0.7	20.0		QP		44.9	60.0	-15.1
22.967	18.4			0.0	1.5	20.0		QP		39.9	60.0	-20.1
0.160	24.2			0.0	0.0	20.0		QP		44.2	65.5	-21.3
0.201	22.3			0.0	0.0	20.0		QP		42.3	63.6	-21.3
0.229	18.1			0.0	0.0	20.0		QP		38.1	62.5	-24.4
23.004	28.2			0.0	1.5	20.0				49.7	50.0	-0.3
23.290	27.2			0.0	1.6	20.0				48.8	50.0	-1.2
0.202	32.0			0.0	0.2	20.0				52.2	53.5	-1.4
0.222	31.0			0.0	0.2	20.0				51.2	52.7	-1.6
0.227	30.4			0.0	0.2	20.0				50.6	52.5	-2.0
0.234	30.1			0.0	0.2	20.0				50.3	52.3	-2.0
22.564	26.3			0.0	1.5	20.0				47.8	50.0	-2.2
22.256	26.3			0.0	1.5	20.0				47.8	50.0	-2.2
23.752	26.1			0.0	1.6	20.0				47.7	50.0	-2.3
7.578	26.9			0.0	0.7	20.0				47.6	50.0	-2.4