INTERMEC Technologies Corporation

802MIG2 and WN-5MP01 Radios in WA21 & WA22 Access Points

Test Report

October 30, 2003

Report No. INMC0099

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 and WN-5MP01 Radios in WA21 & WA22 Access Points

Emissions		
Description	**Pass**	**Fail**
FCC 15.247(c):2003 Spurious Radiated Emissions	☒	☐
FCC 15.407(b)(1-7):2003 Undesirable Emission Limits	☒	☐

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

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-1877 and R-1760, Sultan: C-905, R-871, C-1784 and R-1761, North Sioux City C-1246 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

What is measurement uncertainty?

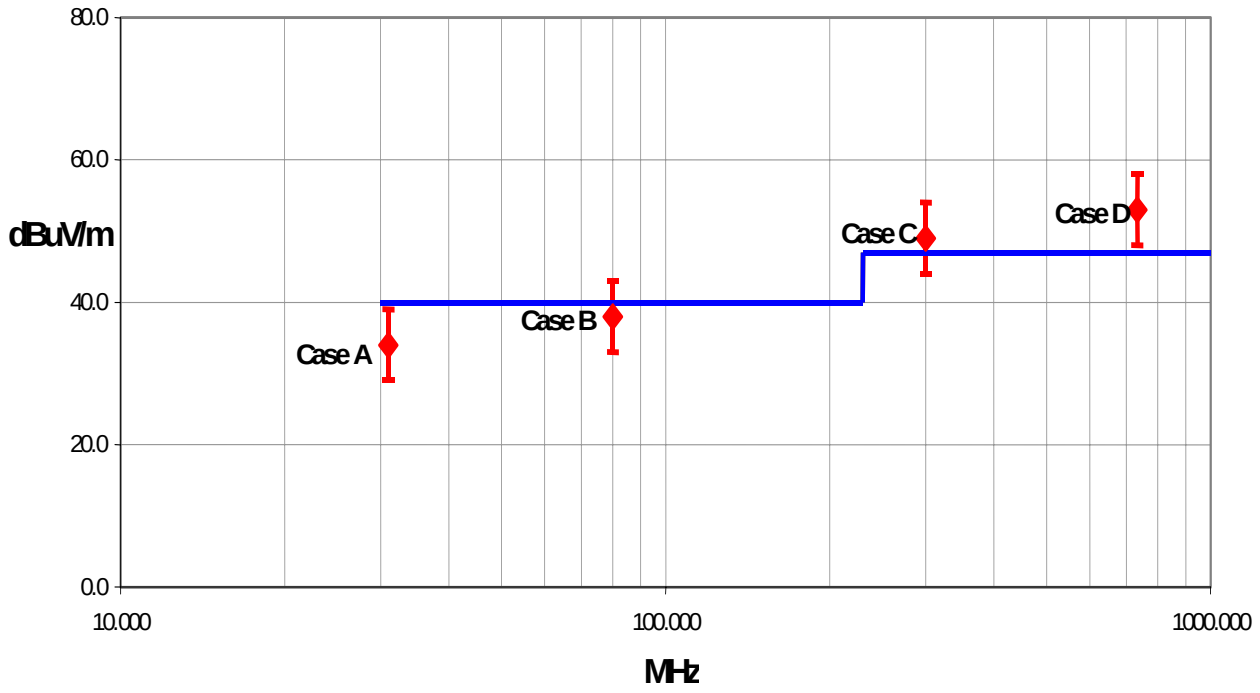
When a measurement is made, the result will be different from the true or theoretically correct value. The difference is the result of tolerances in the measurement system that cannot be completely eliminated. To the extent that technology allows us, it has been our aim to minimize this error. The following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

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

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

How might measurement uncertainty be applied to test results?

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



Test Result Scenarios:
Case A: Product complies.
Case B: Product conditionally complies. It is not possible to say with 95% confidence that the product complies.
Case C: Product conditionally does not comply. It is not possible to say with 95% confidence that the product does not comply.
Case D: Product does not comply.

Radiated Emissions ≤ 1 GHz		Value (dB)					
	Probability Distribution	Biconical Antenna		Log Periodic Antenna		Dipole Antenna	
Test Distance		3m	10m	3m	10m	3m	10m
Combined standard uncertainty $u_c(y)$	normal	+ 1.86 - 1.88	+ 1.82 - 1.87	+ 2.23 - 1.41	+ 1.29 - 1.26	+ 1.31 - 1.27	+ 1.25 - 1.25
Expanded uncertainty ***U*** (level of confidence ≈ 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%.

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 and WN-5MP01 Radios 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 and 802.11(a) radio module used in Intermec's WA21 and WA22 access points.

Client Justification for EUT Selection:

Production samples

Client Justification for Test Selection

These tests satisfy the requirements for certification under FCC 15.247 and 15.407 for simultaneous transmission of co-located radios.

Equipment modifications				
Item #	Test	Date	Modification	Note
1	Spurious Radiated Emissions	07-24-2003 to 10-08-2003	No EMI suppression devices were added or modified during this test.	Same configuration as delivered

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.

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

Antennas Investigated (attached to 802.11 (b)/(g) radio only):
Omni 066147
Omni 065349
Corner Reflector 071122
Flat Panel 067263
Yagi 063365

Antennas Investigated (attached to 802.11(a) radio only):
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 FCC ID: HN2WAMIG2	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
Corner reflector	INTERMEC Technologies	072762	N/A
Dipole	INTERMEC Technologies	072664	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
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: Per 15.407(b) The peak emissions outside of the frequency bands of operation shall be attenuated in accordance with the limits defined in 15.407 (b)(1-7).

All emissions outside the operational bands shall not exceed an EIRP of –27 dBm/MHz. In addition, the field strength of any spurious emissions or modulation products that fall in a restricted band, as defined in 47 CFR 15.205, shall comply with the following: the peak level must comply with the limits specified in 47 CFR 15.35(b), and the average level (taken with a 10Hz VBW) must comply with the limits specified in 15.209. In addition, all unwanted emissions below 1 GHz must comply with the general field strength limits of 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 Simultaneous Transmission: The 802.11(b)/(g) radio (FCC ID: HN2WAMIG2) is seeking original equipment certification under 47 CFR 15.247 and will be used only in Intermec's WA21 or WA22 access points. Each access point can accommodate two radio modules. The 802.11(b)/(g) radio can be co-located with another identical radio, or with the previously certified 802.11(a) radio (FCC ID: HN2WN-5MP01). Likewise, the 802.11(a) radio can be co-located with another identical radio, or with the 802.11(b)/(g) radio. 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 802.11(b)/(g) 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 802.11(b)/(g) 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.

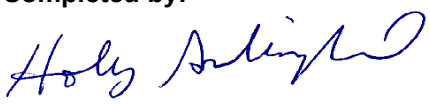
All the radios were configured for simultaneous transmission at the channels specified in the previous pages. The highest gain antennas to be used with the radios were tested. The spectrum was scanned throughout the specified range with the radios installed in both the WA21 and WA22 access points. While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

Configuration for Stand-alone Transmission: The 802.11(a) radio (FCC ID: HN2WN-5MP01), has been previously certified for use in Intermec's WA21 and WA22 access points, so it was unnecessary to retest it in a stand-alone configuration. However, the 802.11(b)/(g) radio (FCC ID: HN2WAMIG2) is seeking original equipment certification under 47 CFR 15.247 and was tested in a stand-alone configuration in the WA21 and WA22 access points. The highest gain of each type of antenna to be used with the 802.11(b)/(g) radio was tested. All the operating modes and channels listed on the previous pages were investigated with the 802.11(b)/(g) radio installed in both the WA21 and WA22 access points. The 802.11(b)/(g) radio 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 802.11(b)/(g) radio were maximized by rotating the access points on a turntable, adjusting the position of the access points and access point antennas 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.

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.

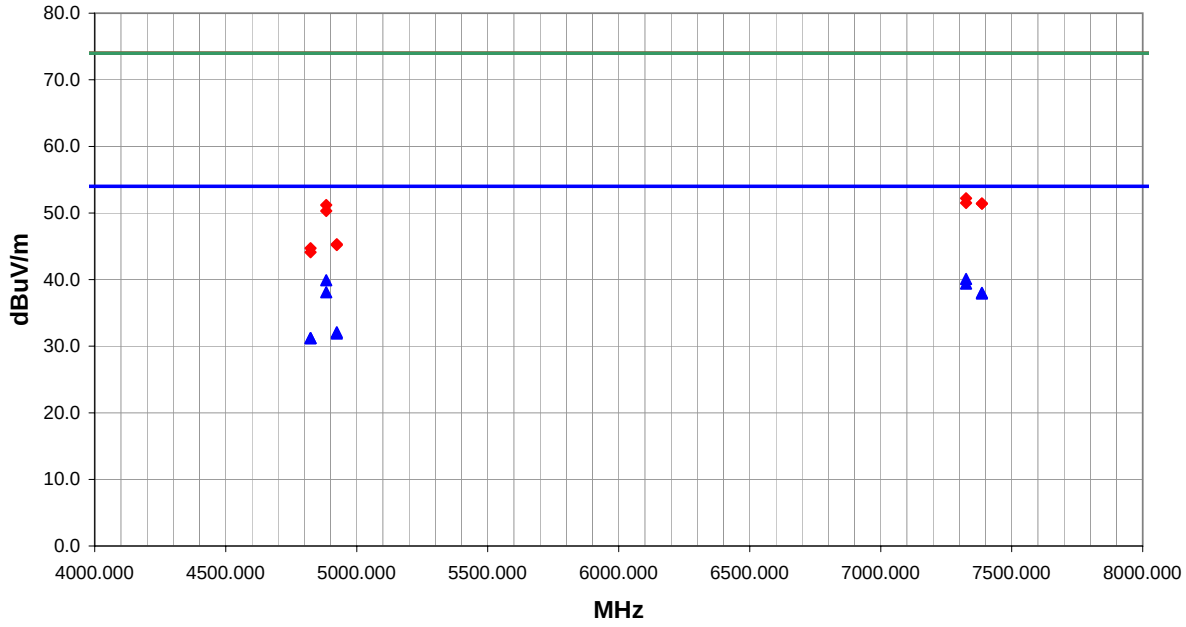
DEVIATIONS FROM TEST STANDARD

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.

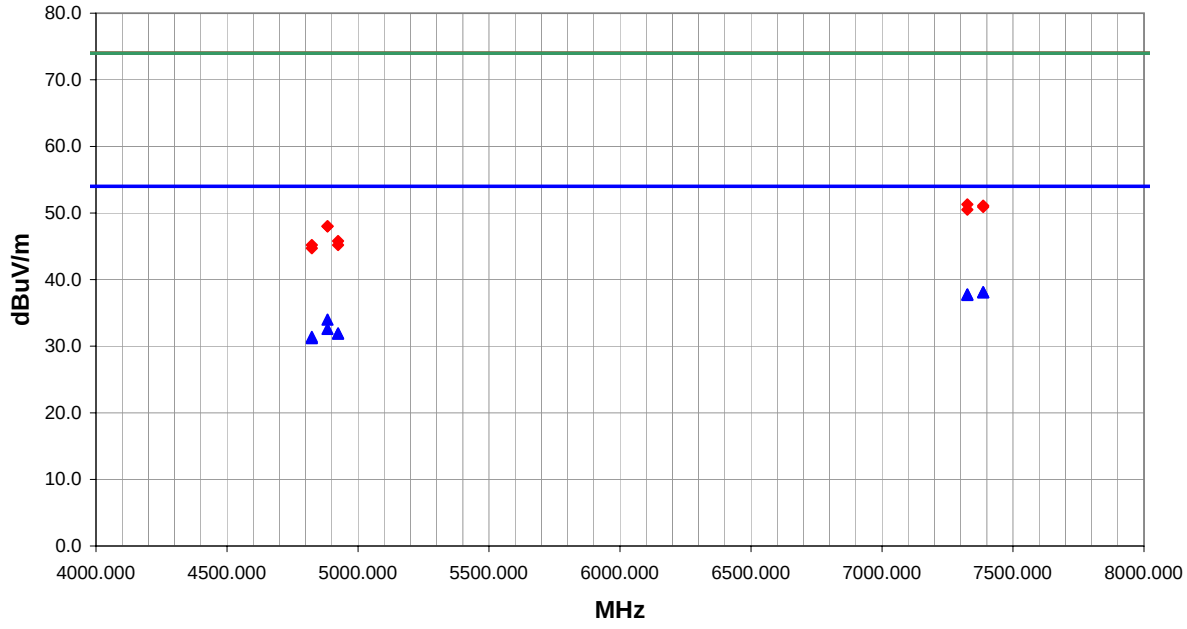
DEVIATIONS FROM TEST STANDARD

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.

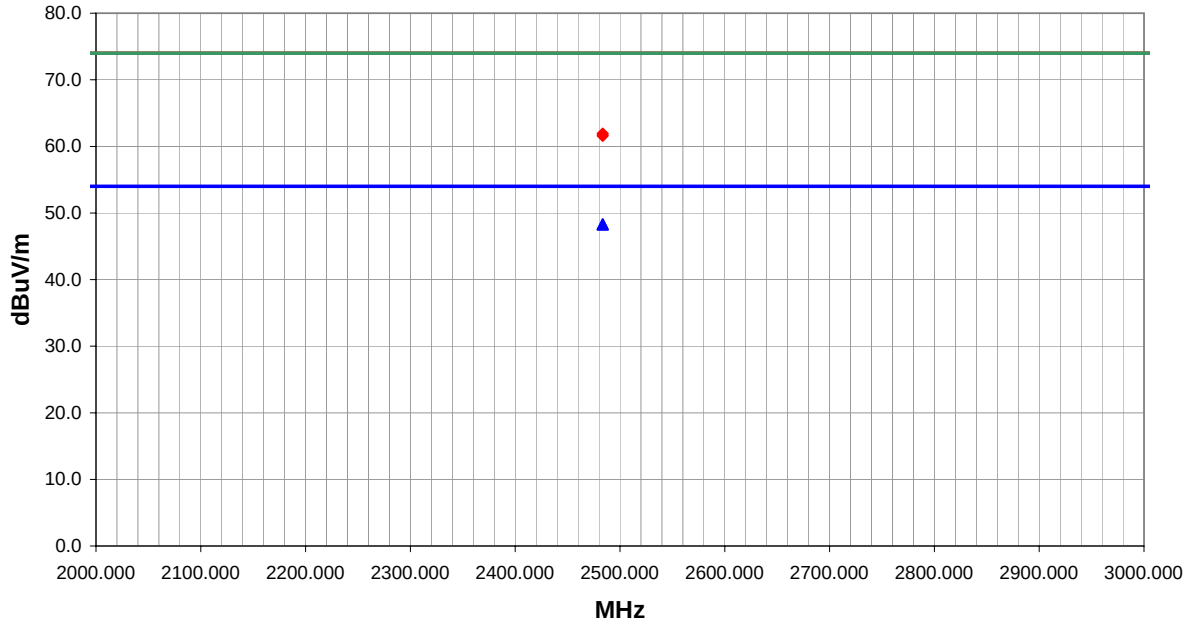
DEVIATIONS FROM TEST STANDARD

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.

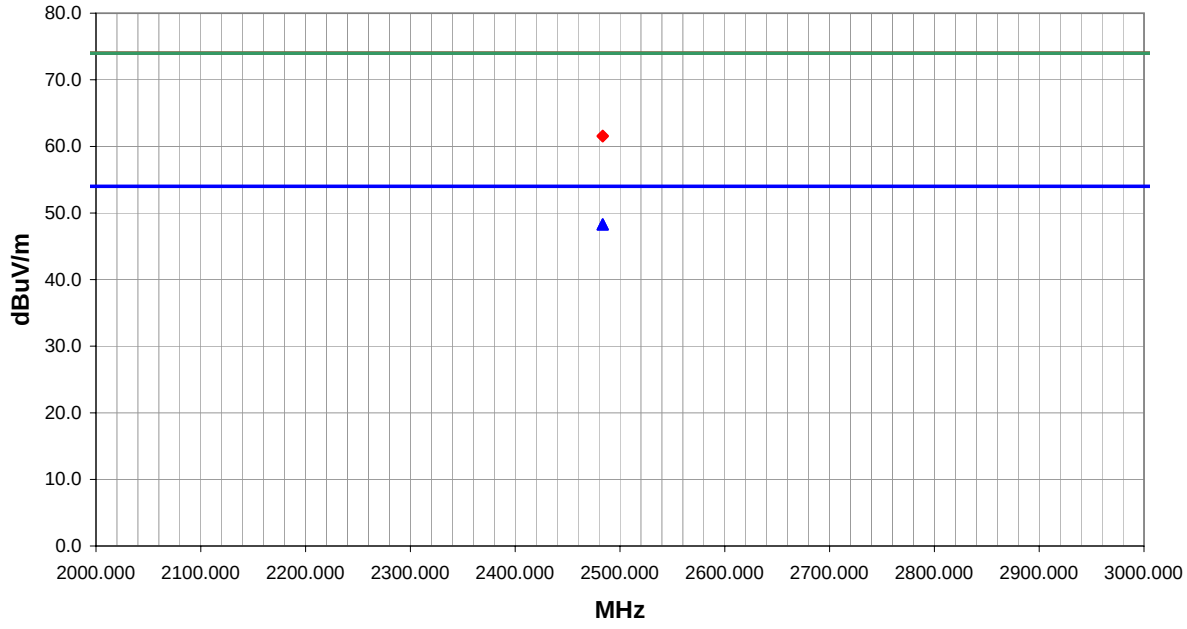
DEVIATIONS FROM TEST STANDARD

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.

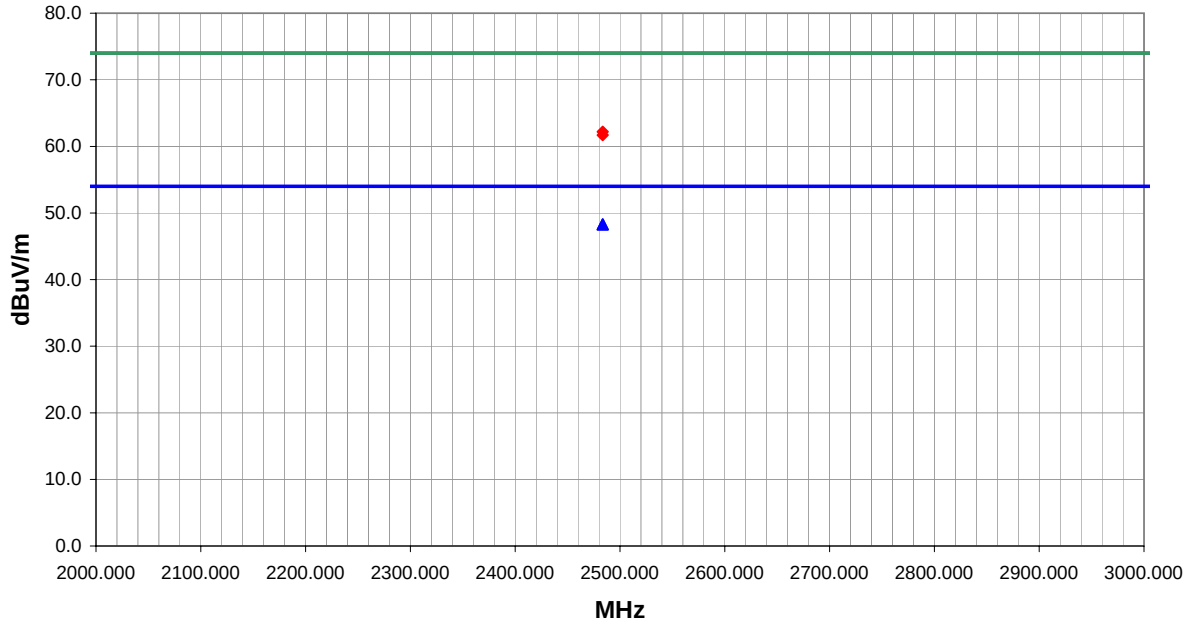
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	6

Other

Tested By: 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	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.

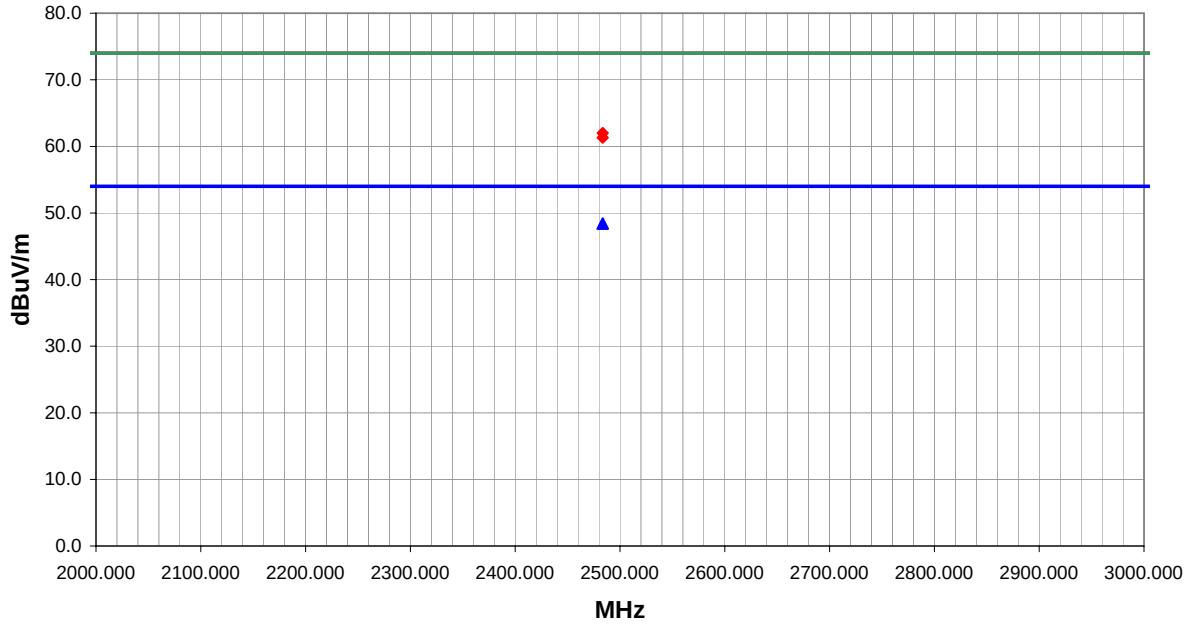
DEVIATIONS FROM TEST STANDARD

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.

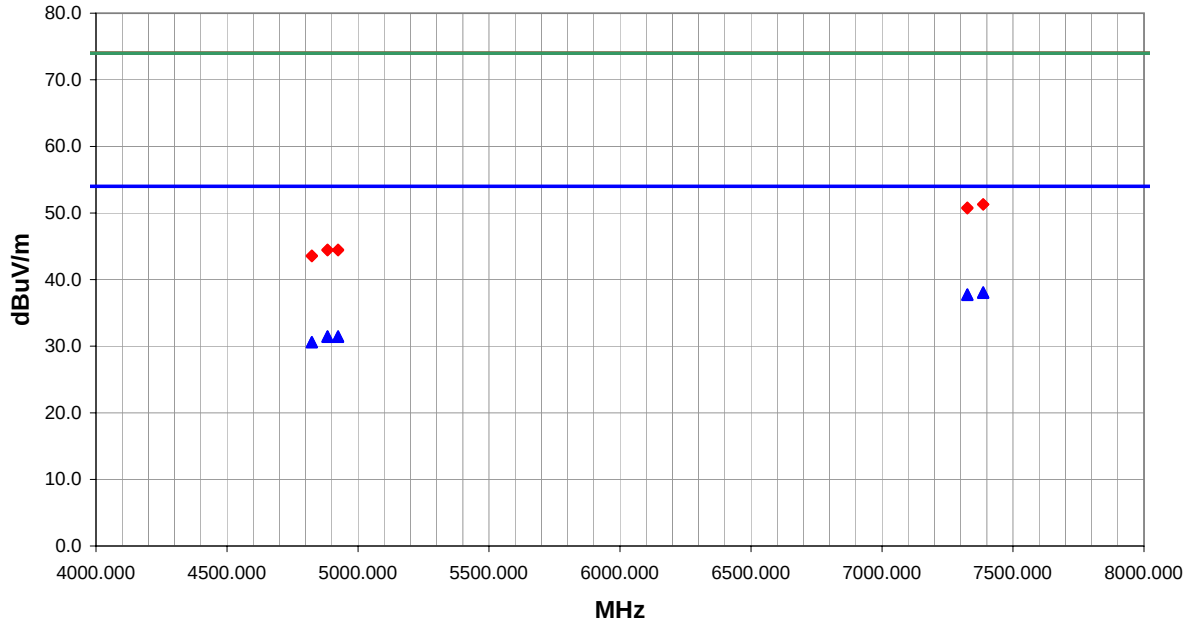
DEVIATIONS FROM TEST STANDARD

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.

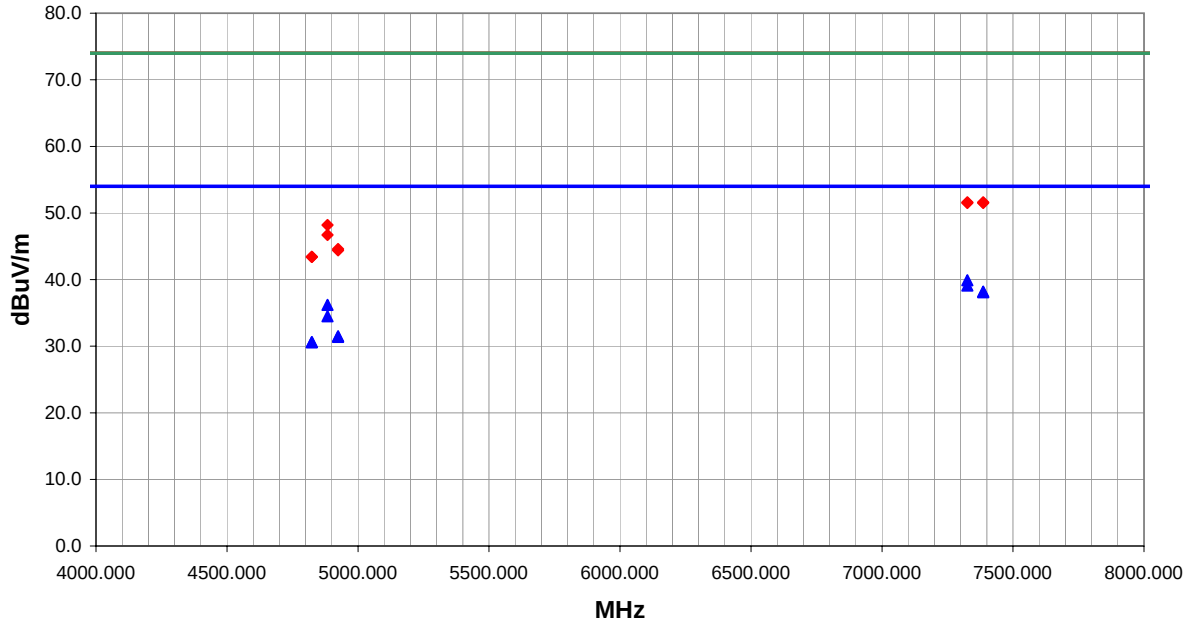
DEVIATIONS FROM TEST STANDARD

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.

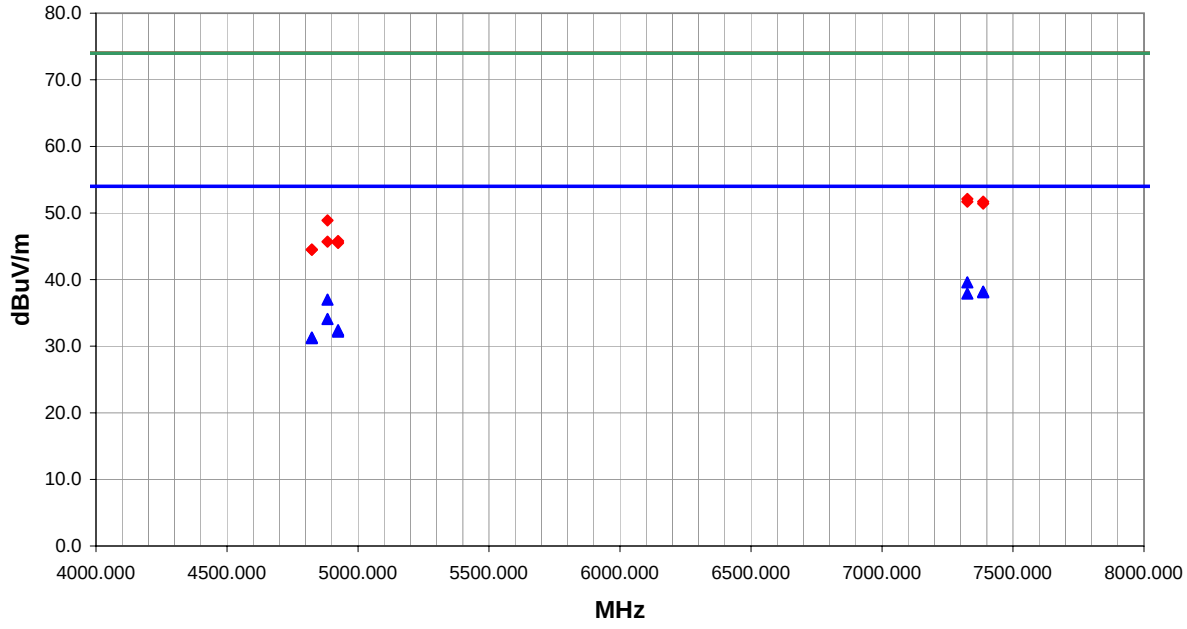
DEVIATIONS FROM TEST STANDARD

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.

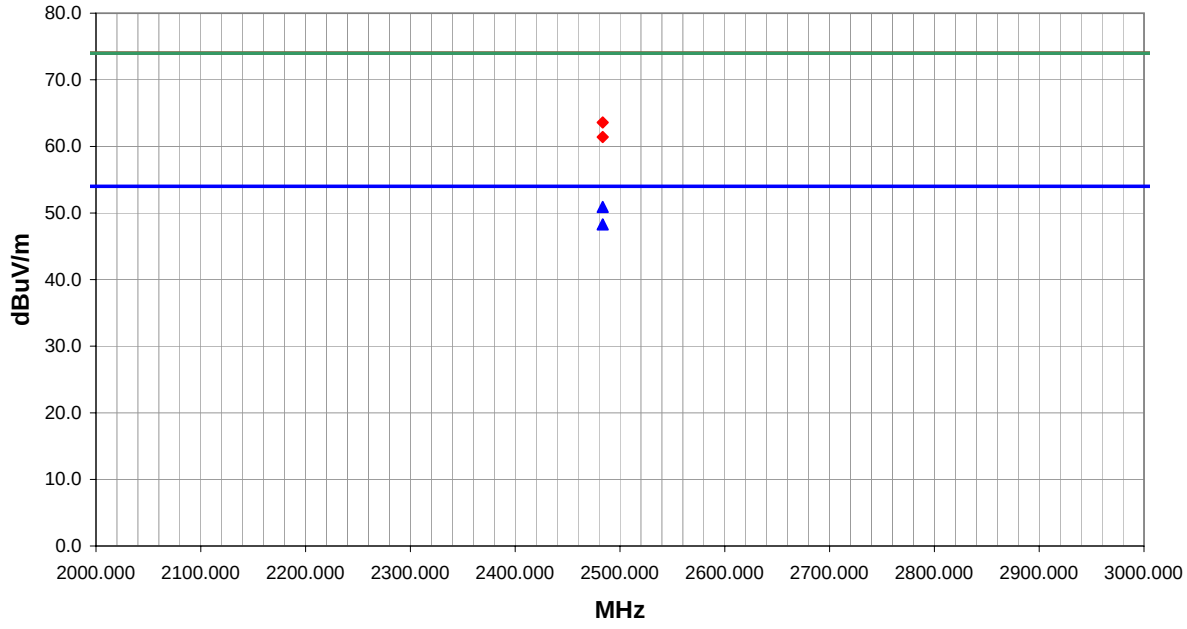
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	13

Other

Tested By: 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	29.9	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.

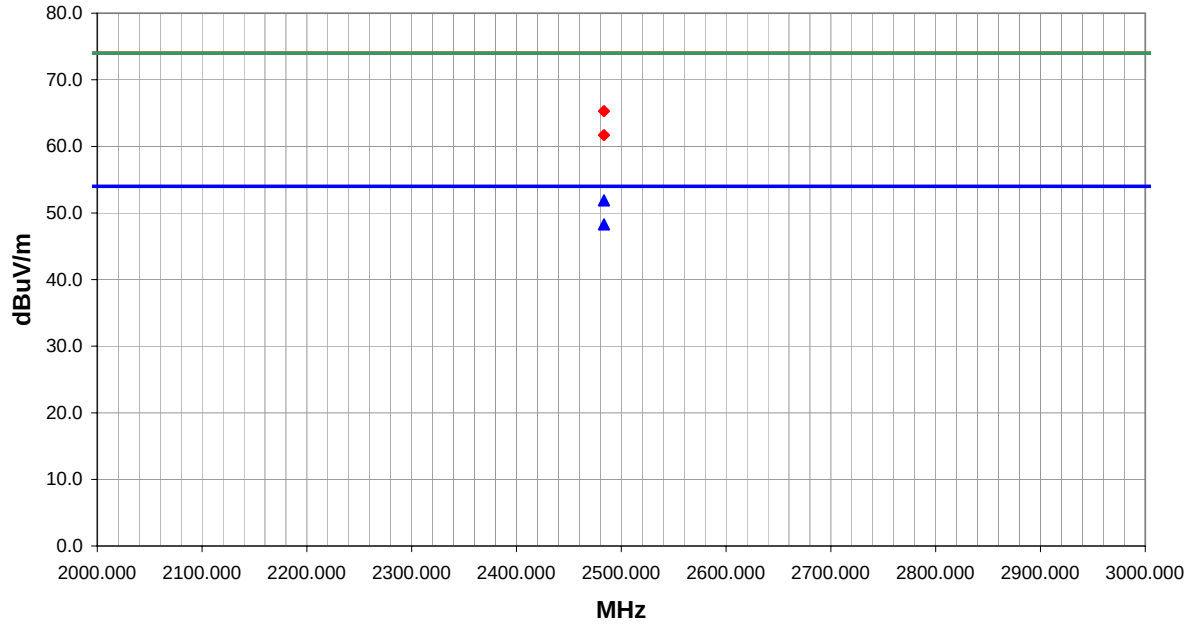
DEVIATIONS FROM TEST STANDARD

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.

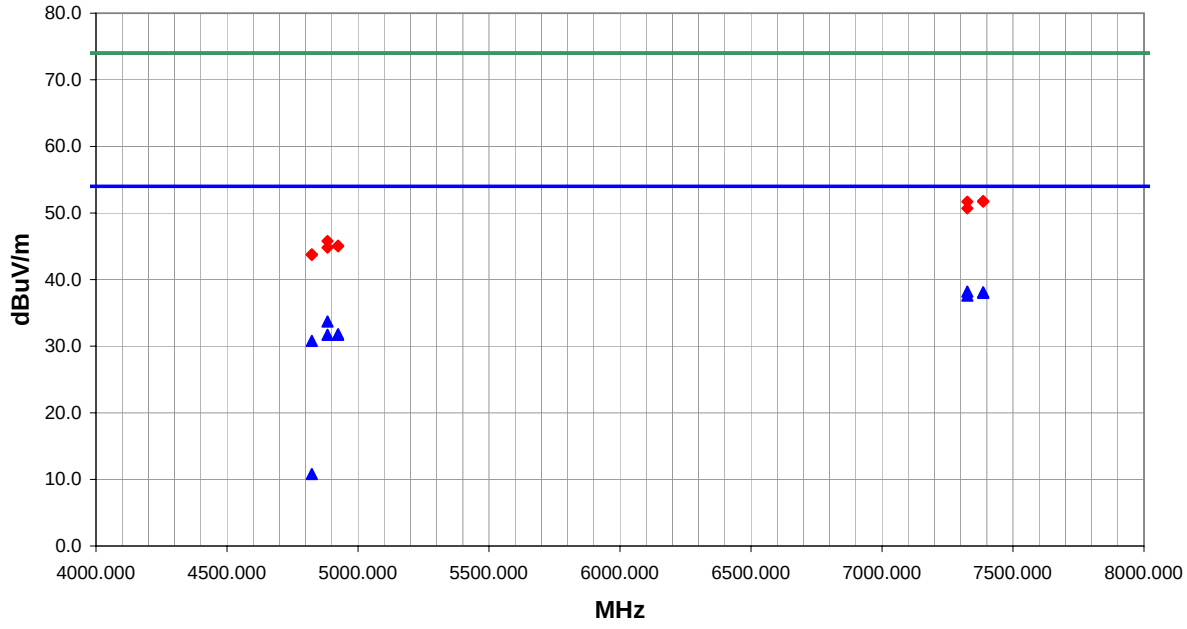
DEVIATIONS FROM TEST STANDARD

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.

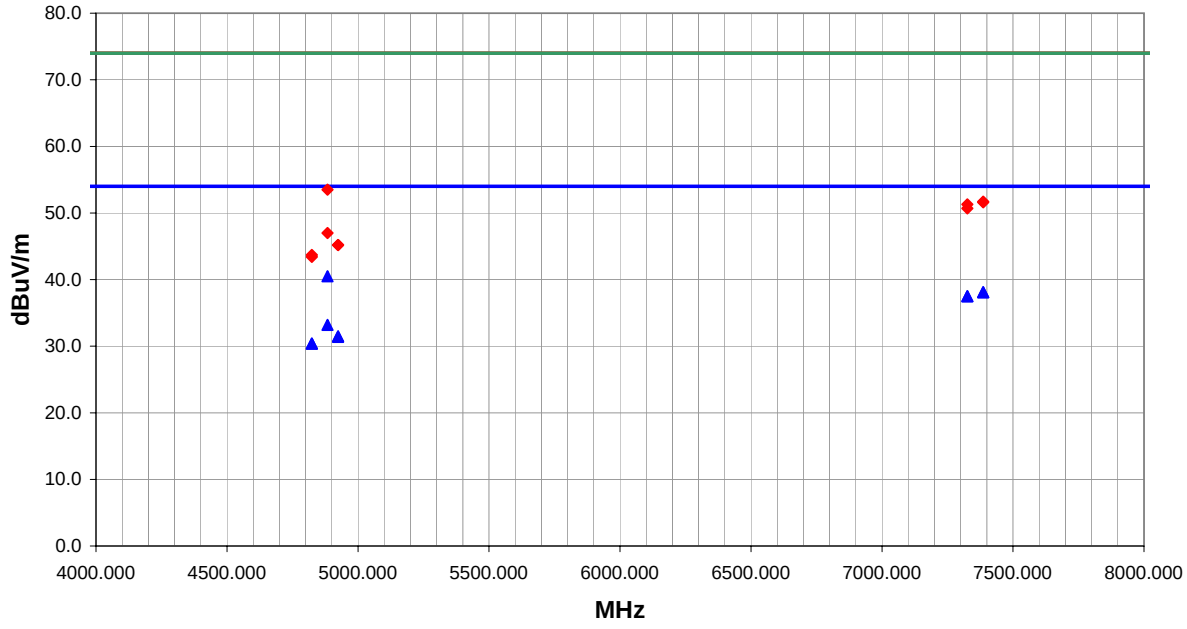
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	18

Other

Tested By:



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.

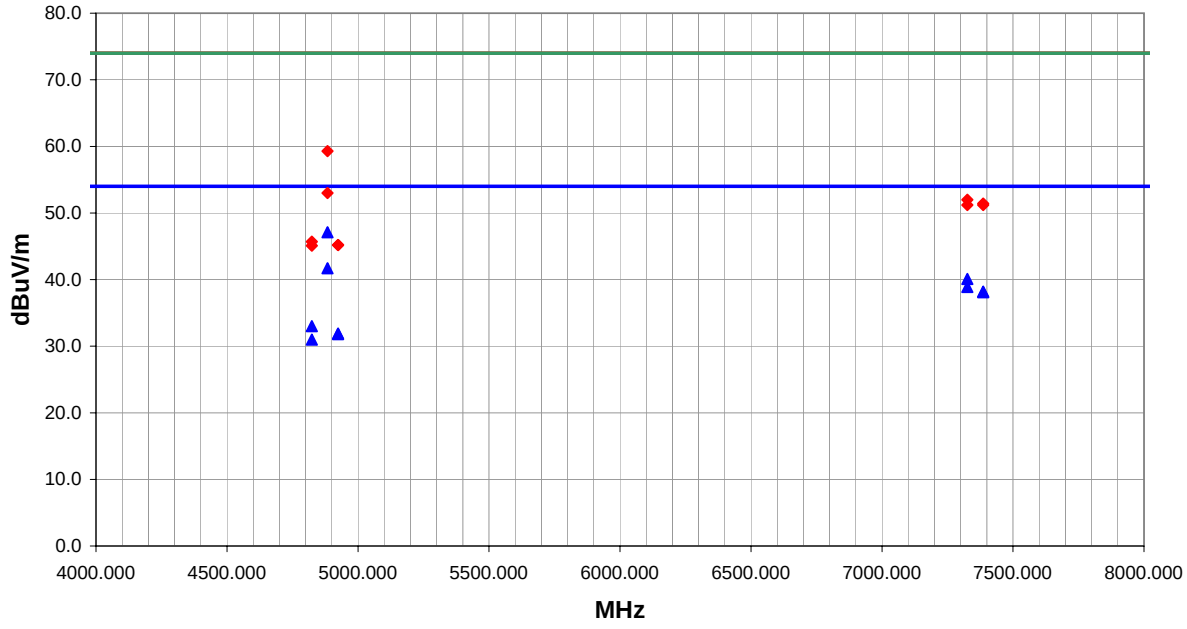
DEVIATIONS FROM TEST STANDARD

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.

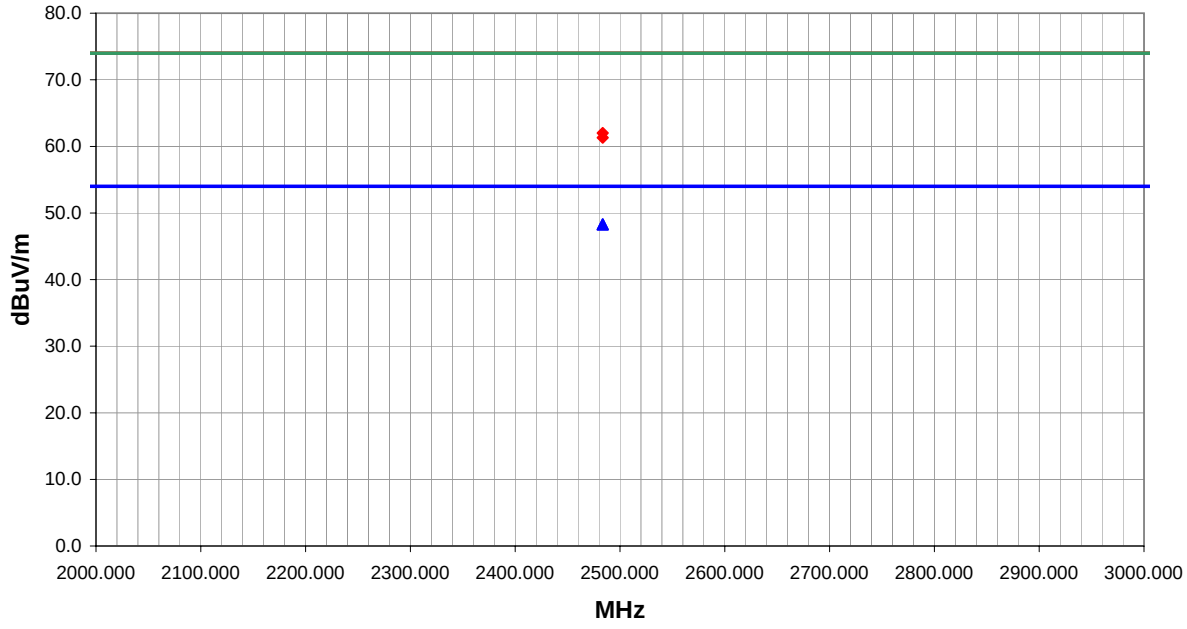
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	21

Other

Tested By: 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	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.

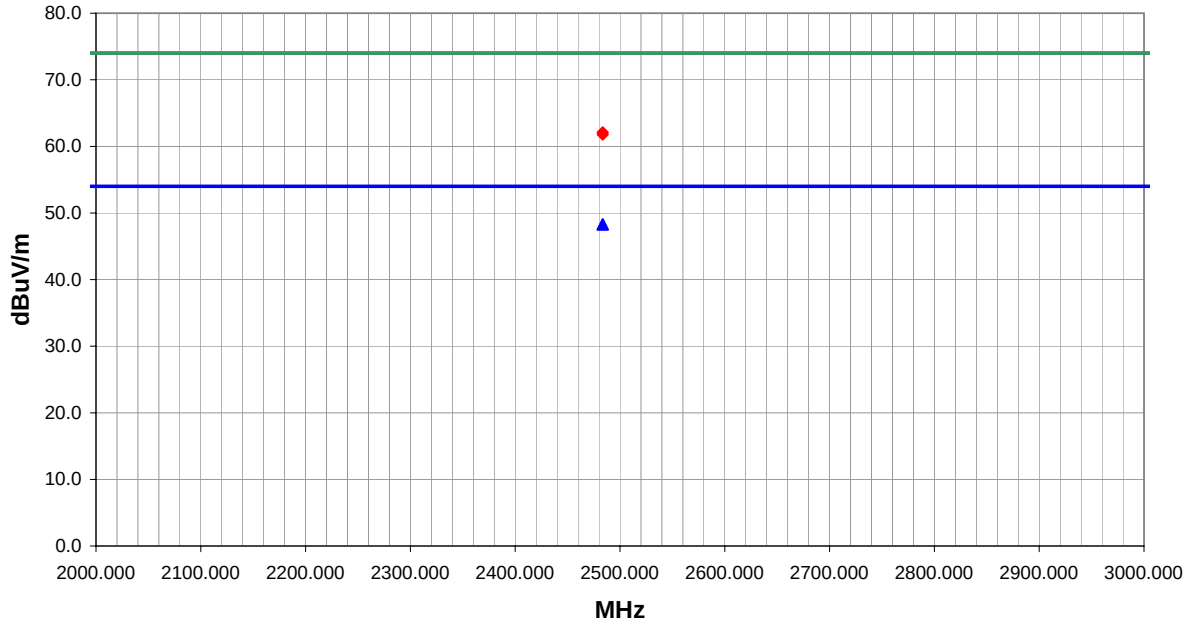
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	22

Other

Tested By:



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.

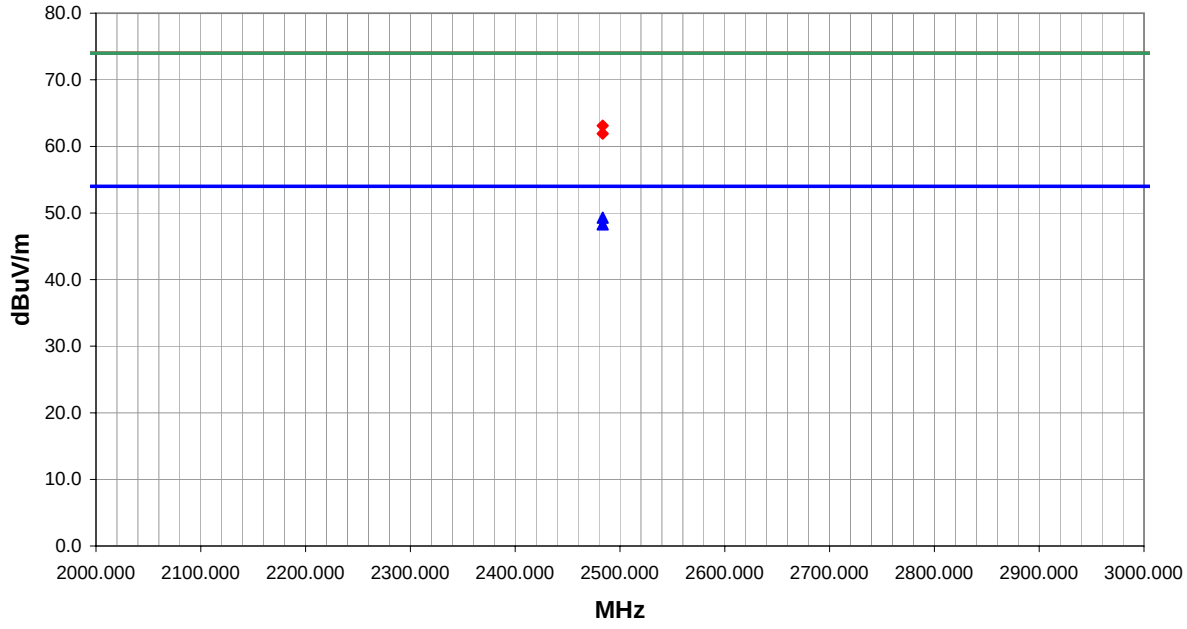
DEVIATIONS FROM TEST STANDARD

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.

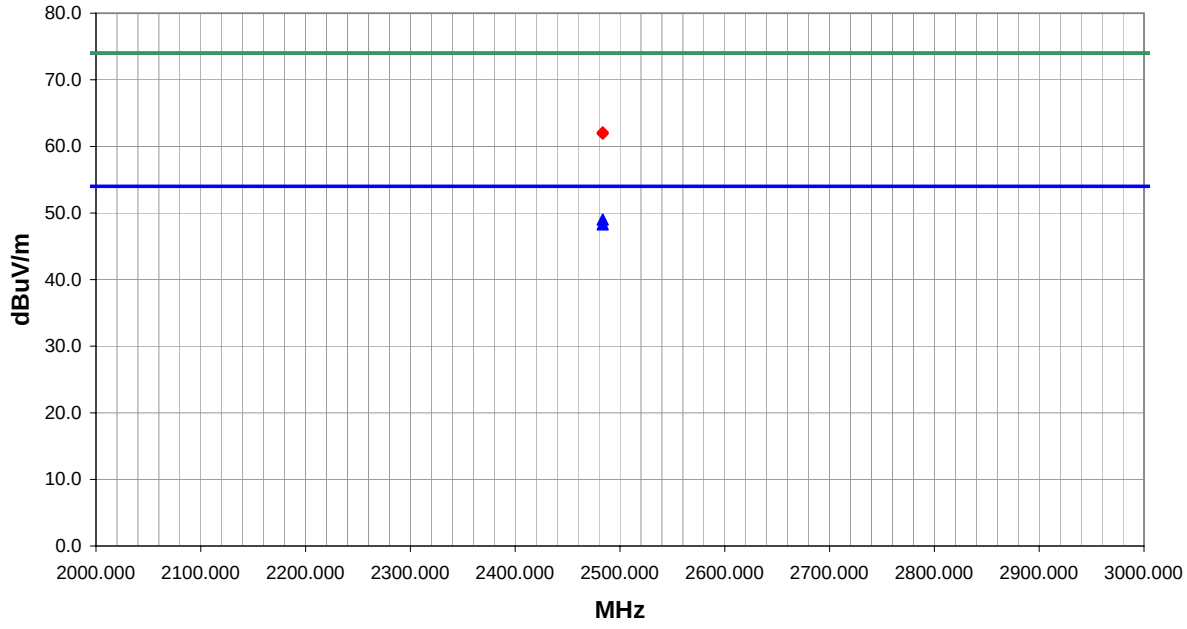
DEVIATIONS FROM TEST STANDARD

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.

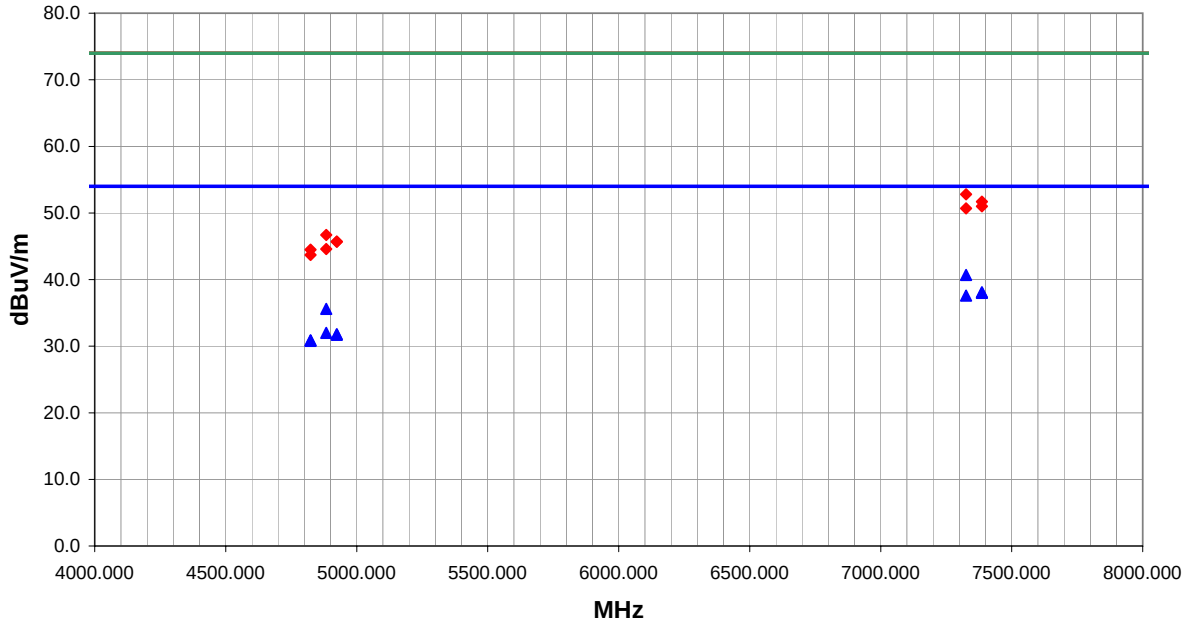
DEVIATIONS FROM TEST STANDARD

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.

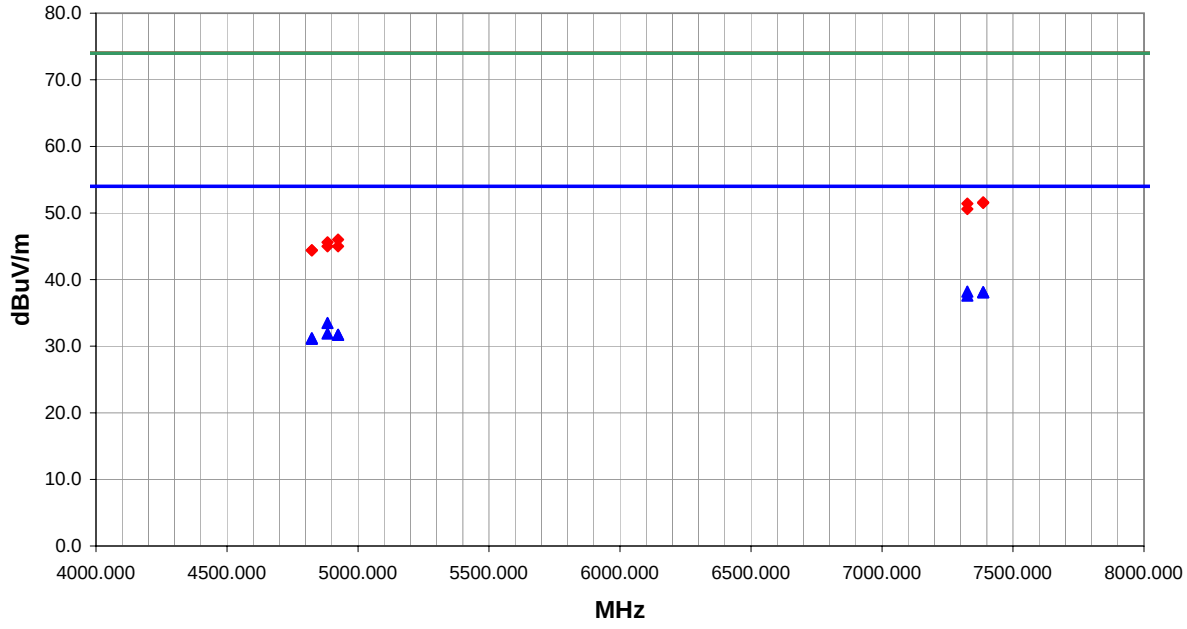
DEVIATIONS FROM TEST STANDARD

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.

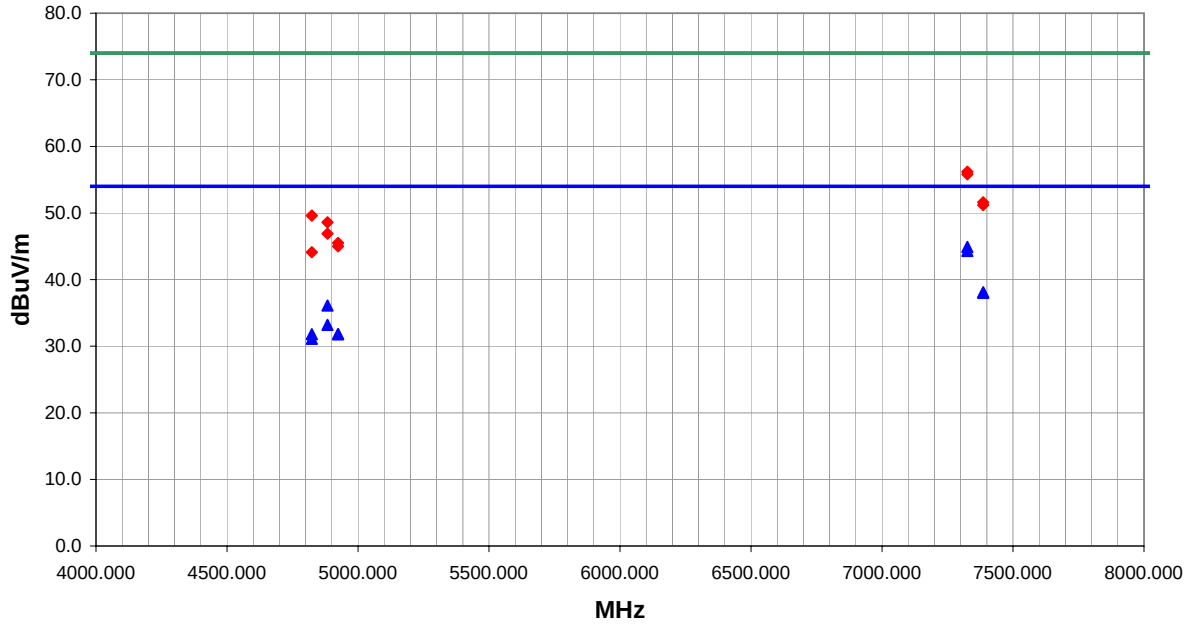
DEVIATIONS FROM TEST STANDARD

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.

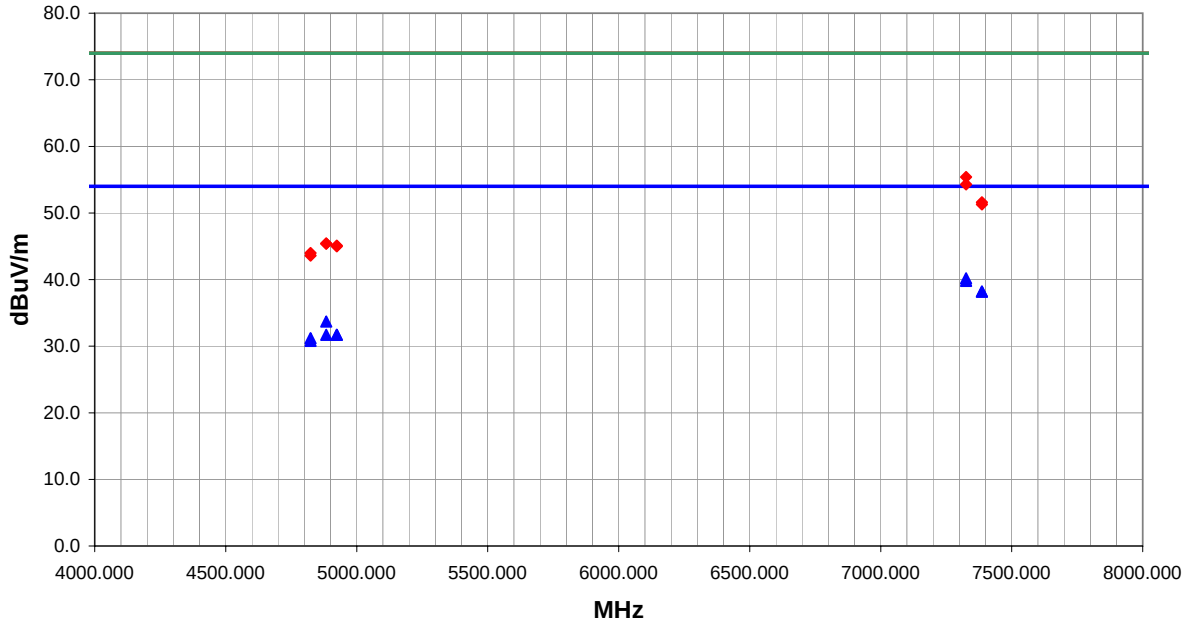
DEVIATIONS FROM TEST STANDARD

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.

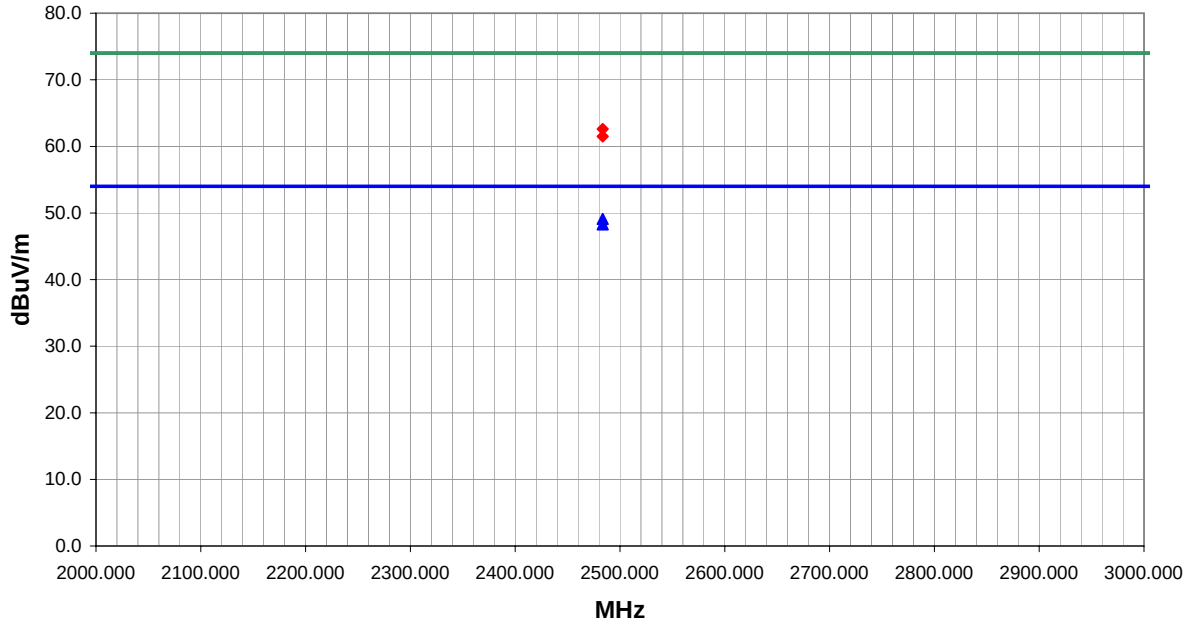
DEVIATIONS FROM TEST STANDARD

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.

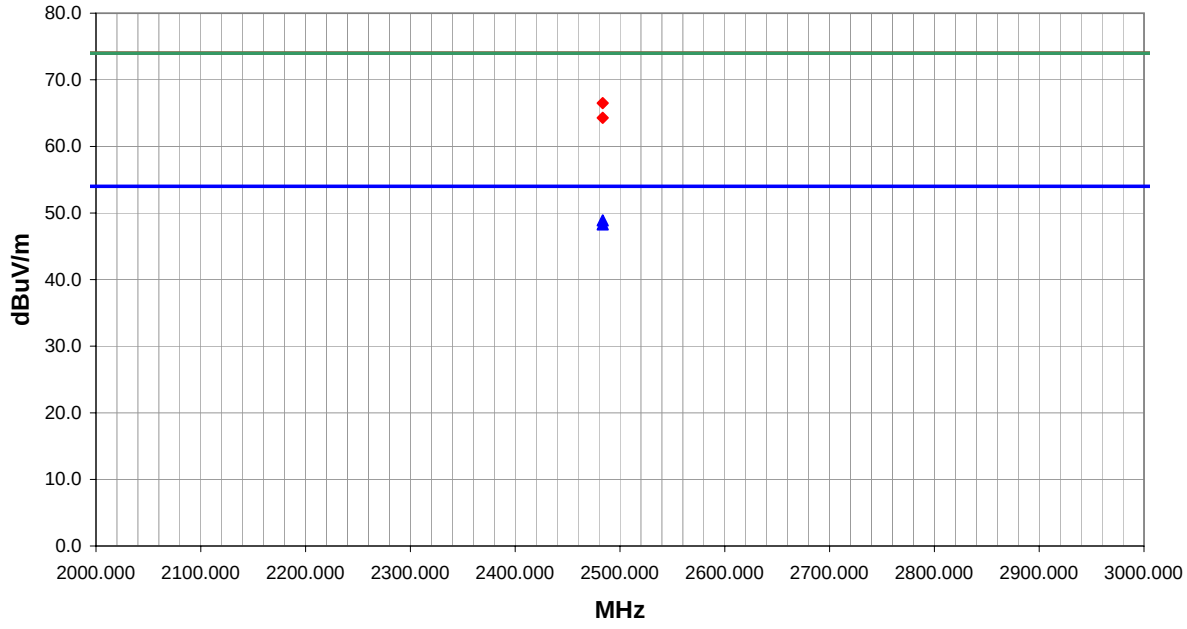
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	30

Other

Tested By:



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.

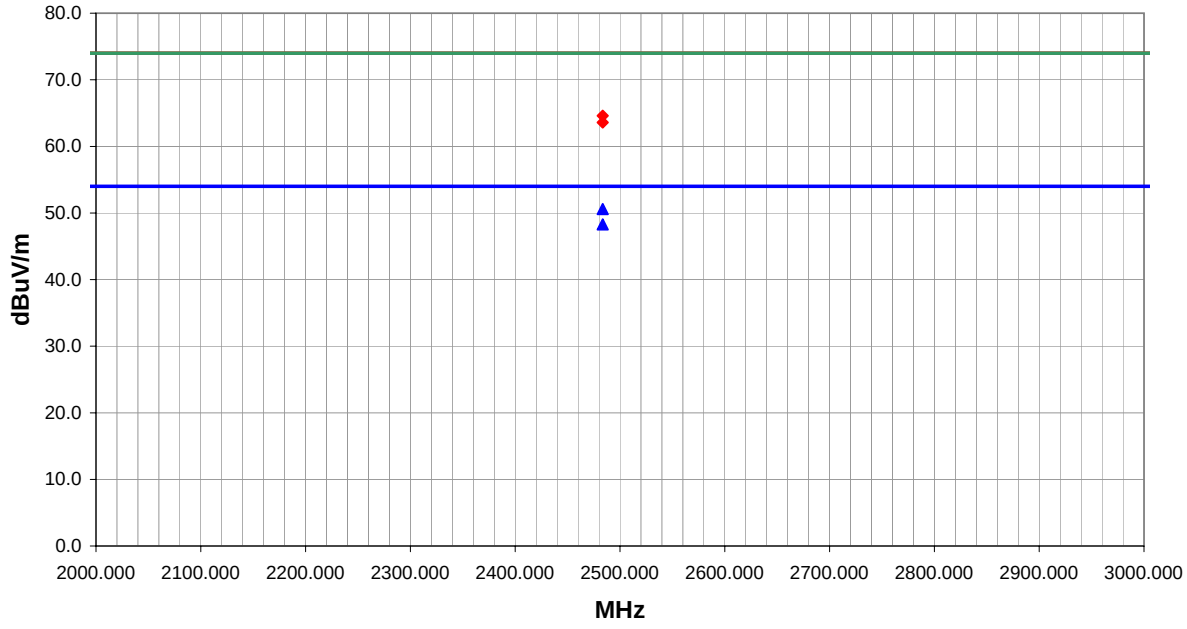
DEVIATIONS FROM TEST STANDARD

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.

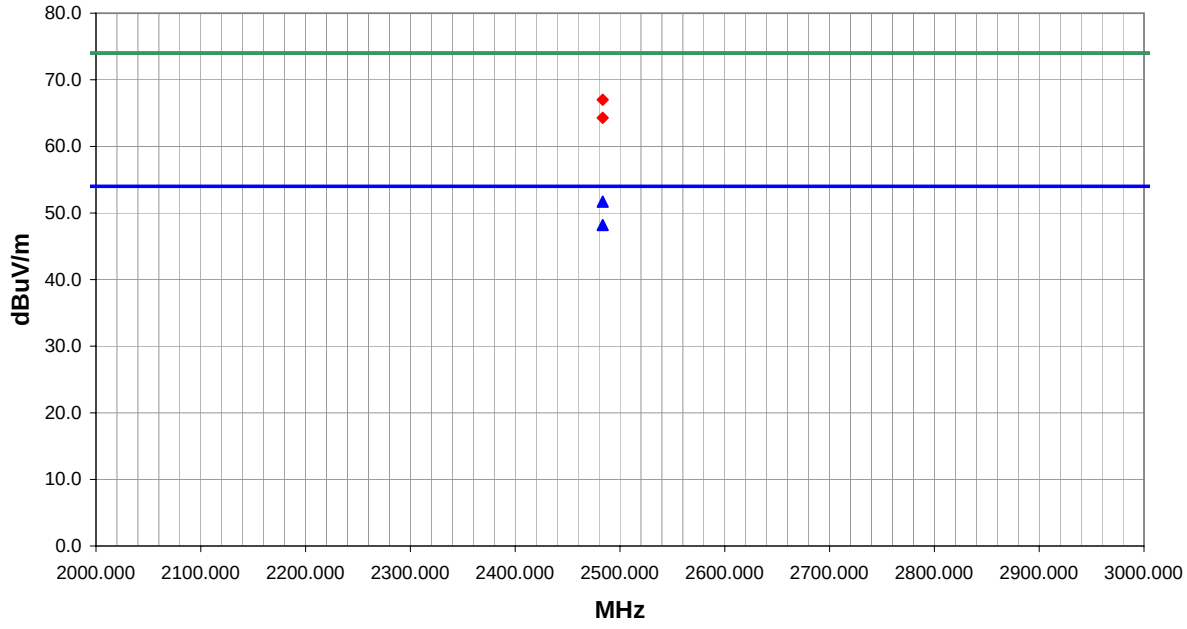
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	**Run #**
Pass	32

Other

Tested By:



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.

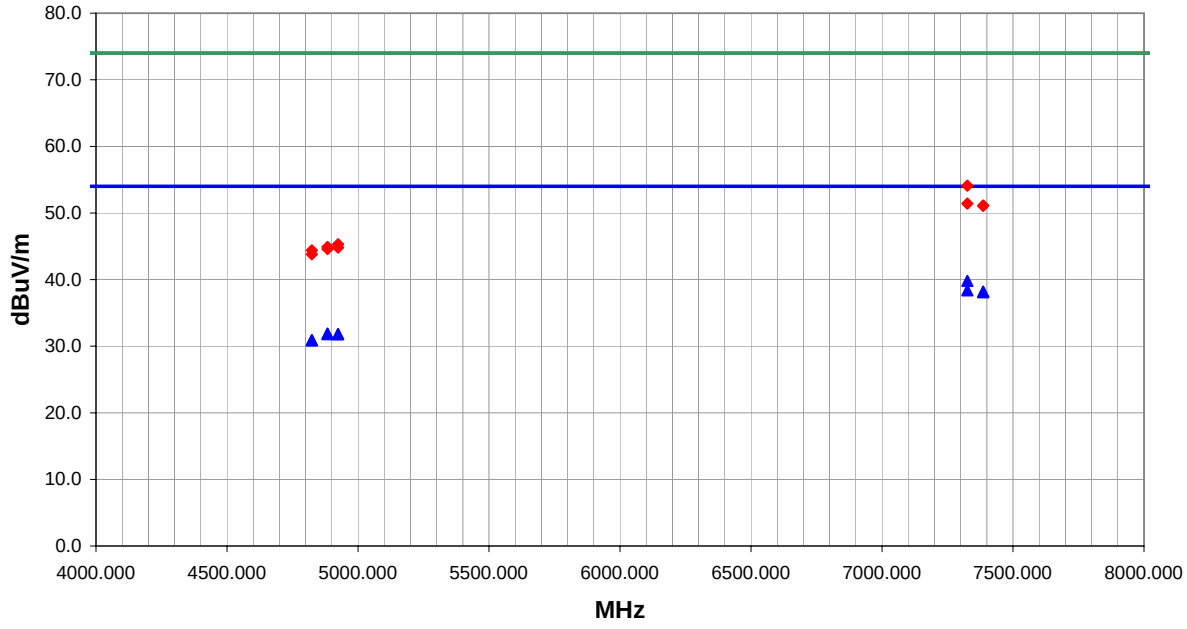
DEVIATIONS FROM TEST STANDARD

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.

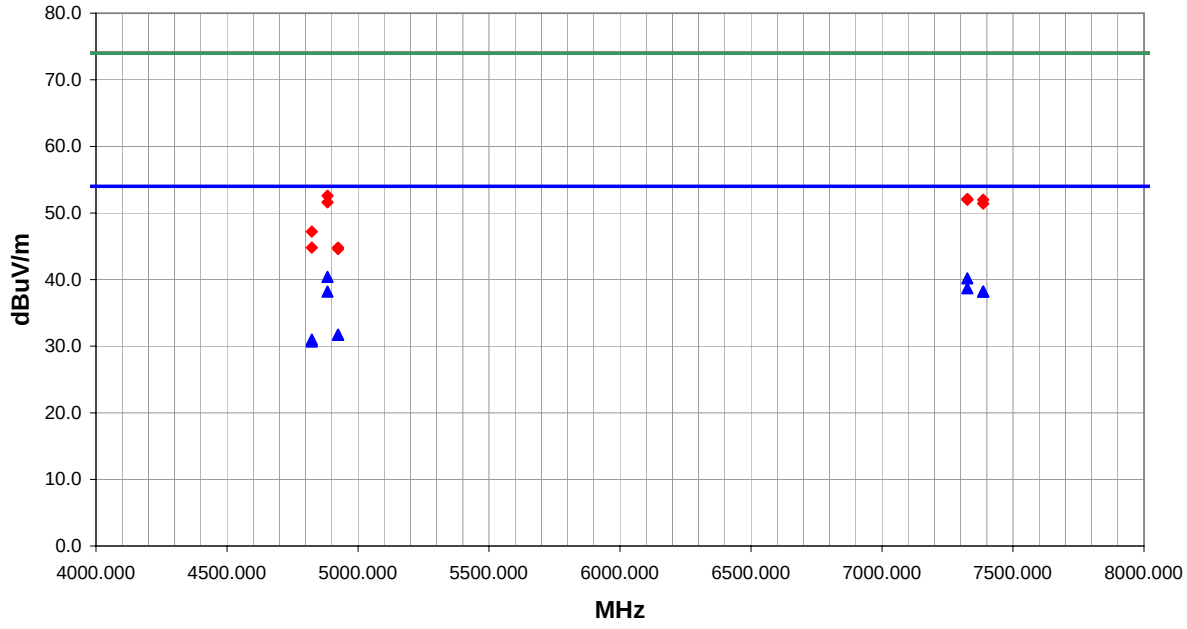
DEVIATIONS FROM TEST STANDARD

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.

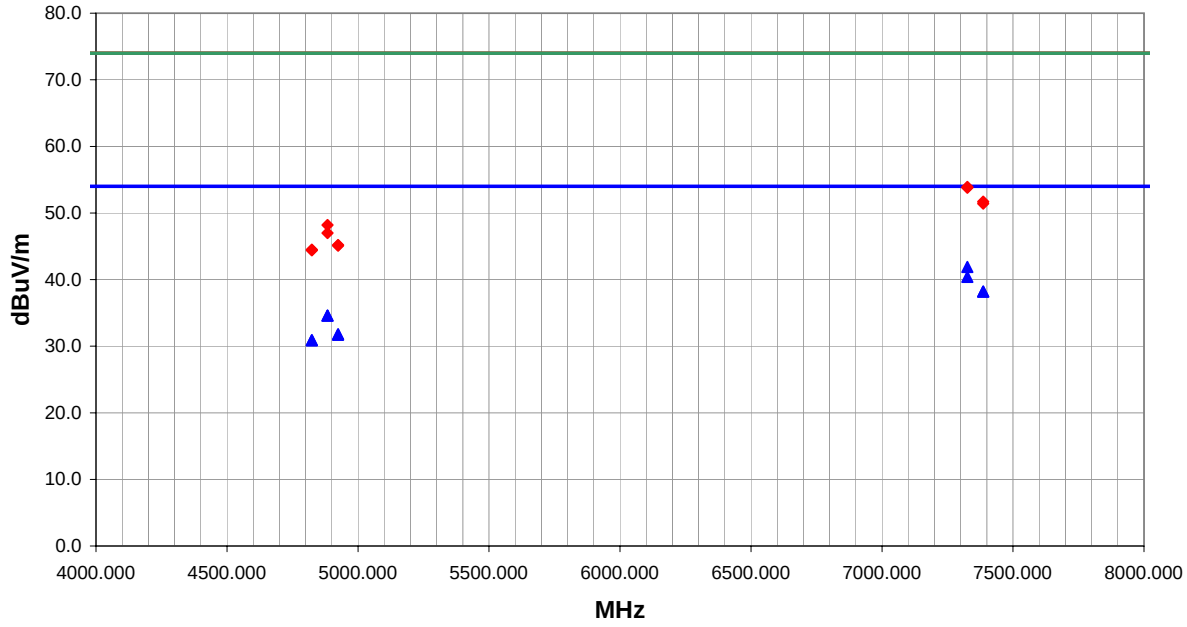
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	37

Other

Tested By: 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	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.

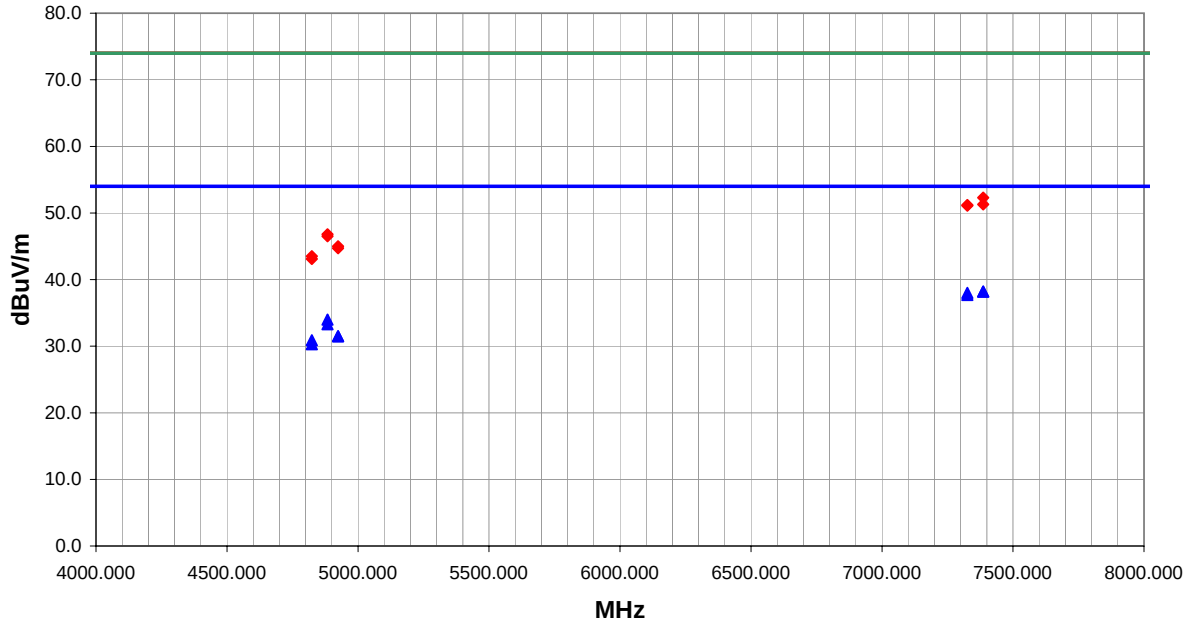
DEVIATIONS FROM TEST STANDARD

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.

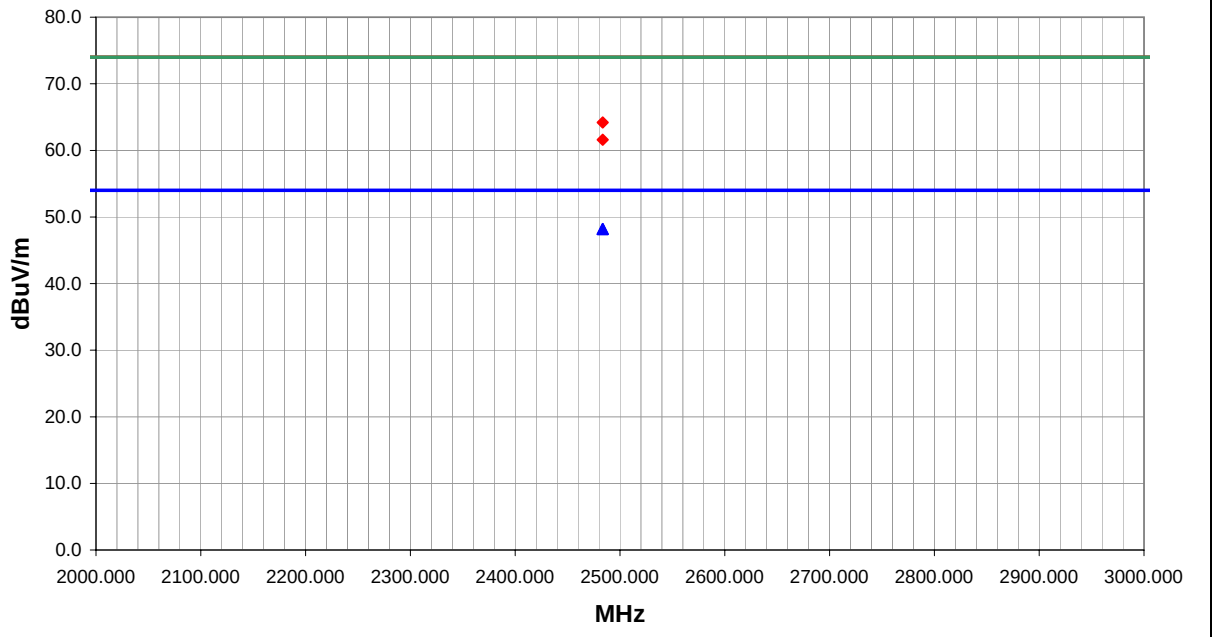
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	40

Other

Tested By:



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.

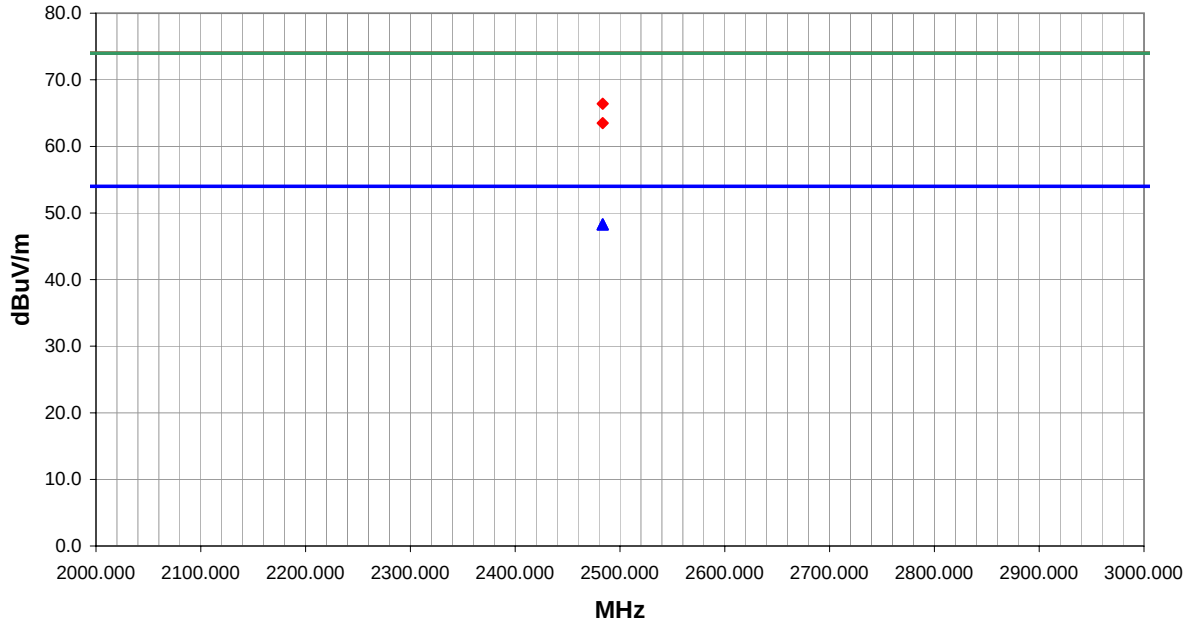
DEVIATIONS FROM TEST STANDARD

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.

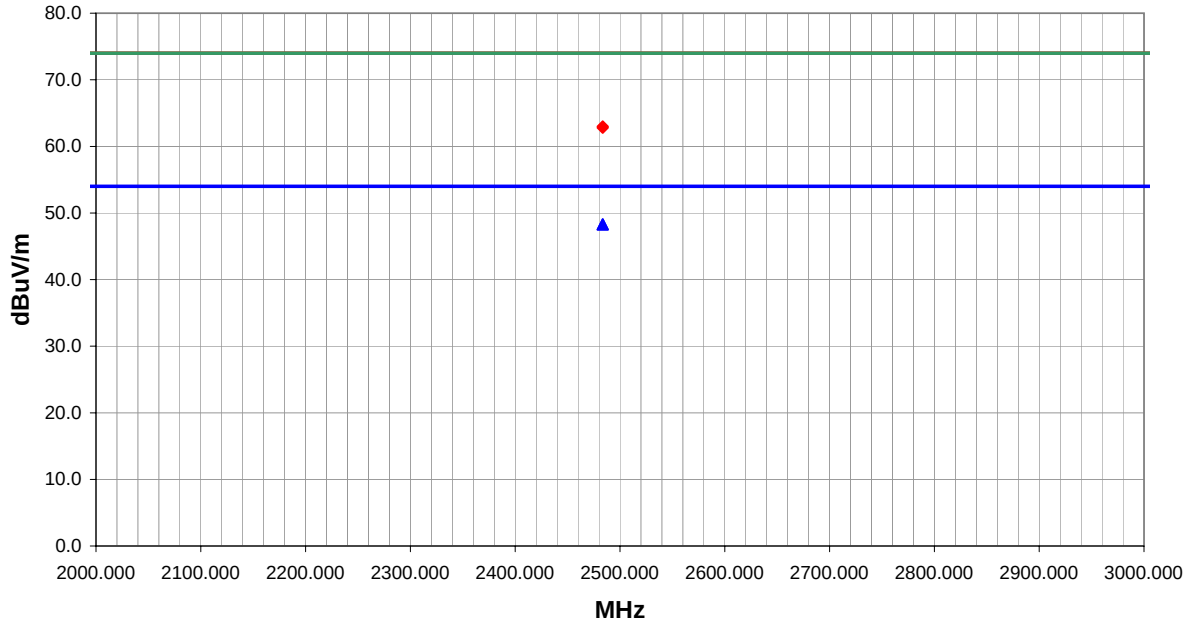
DEVIATIONS FROM TEST STANDARD

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.

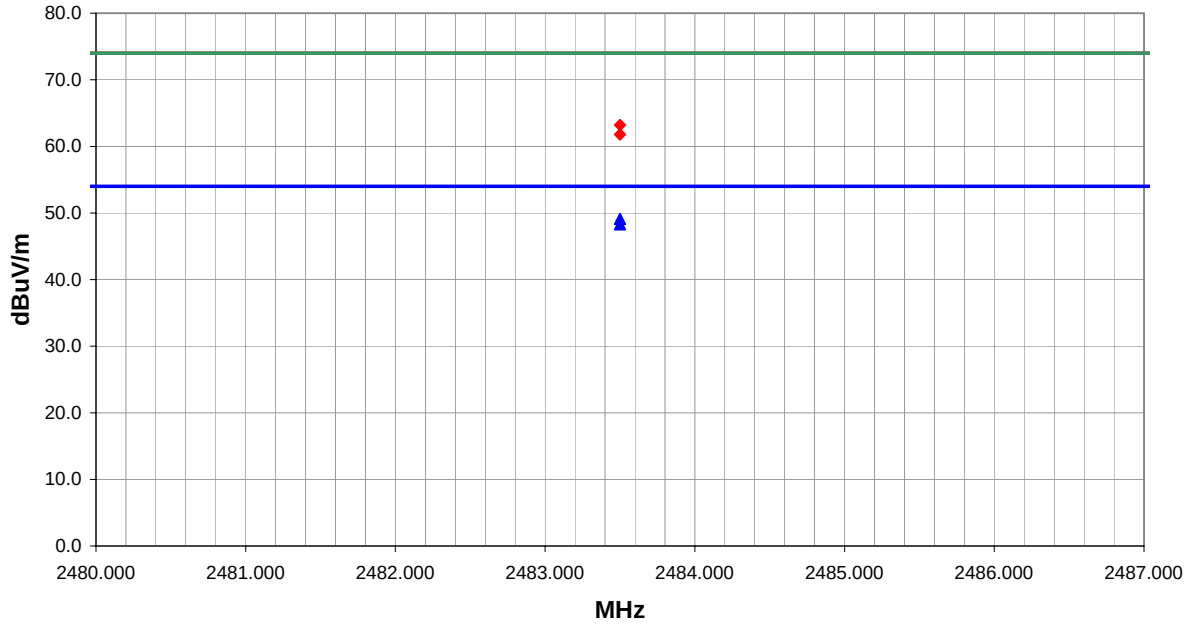
DEVIATIONS FROM TEST STANDARD

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.

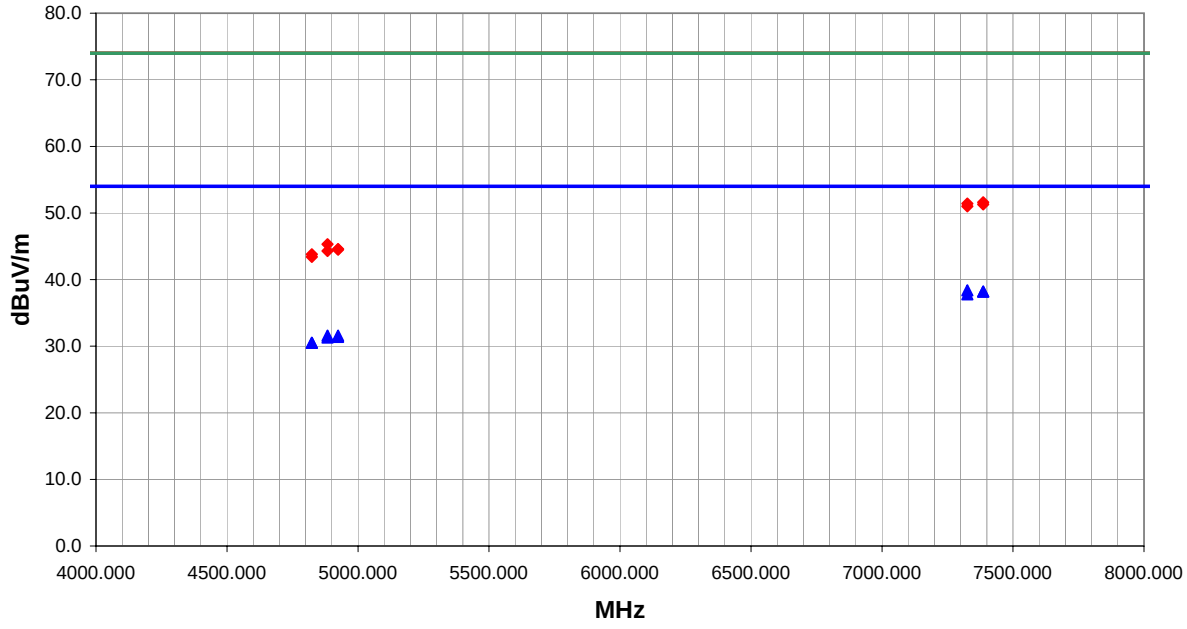
DEVIATIONS FROM TEST STANDARD

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.

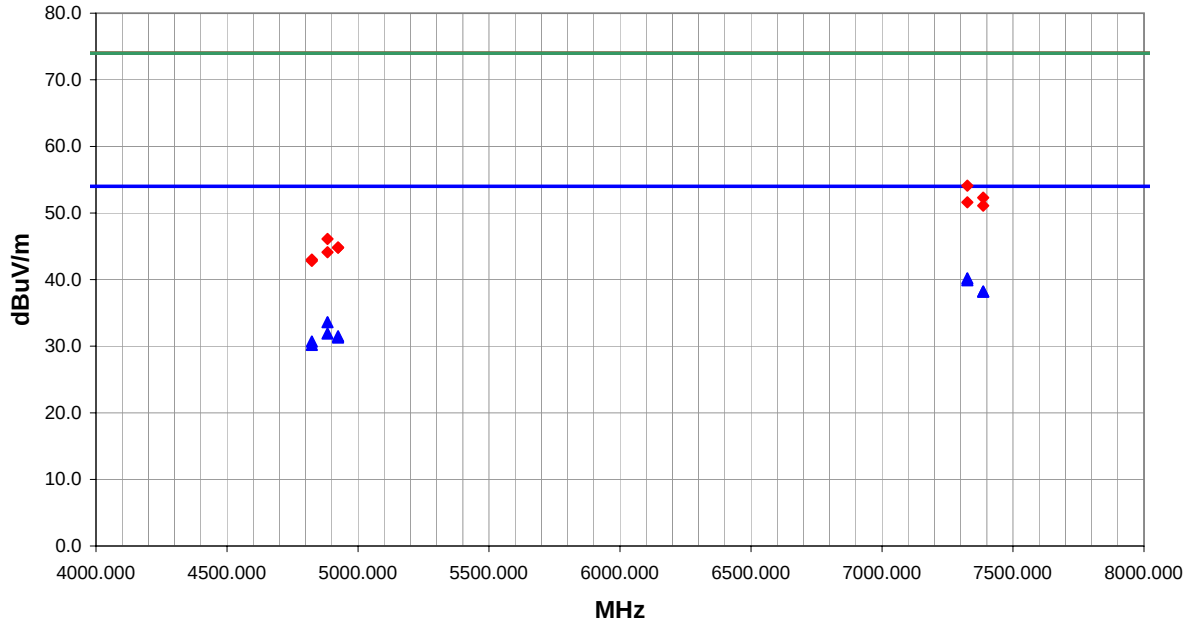
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	45

Other

Tested By:



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.

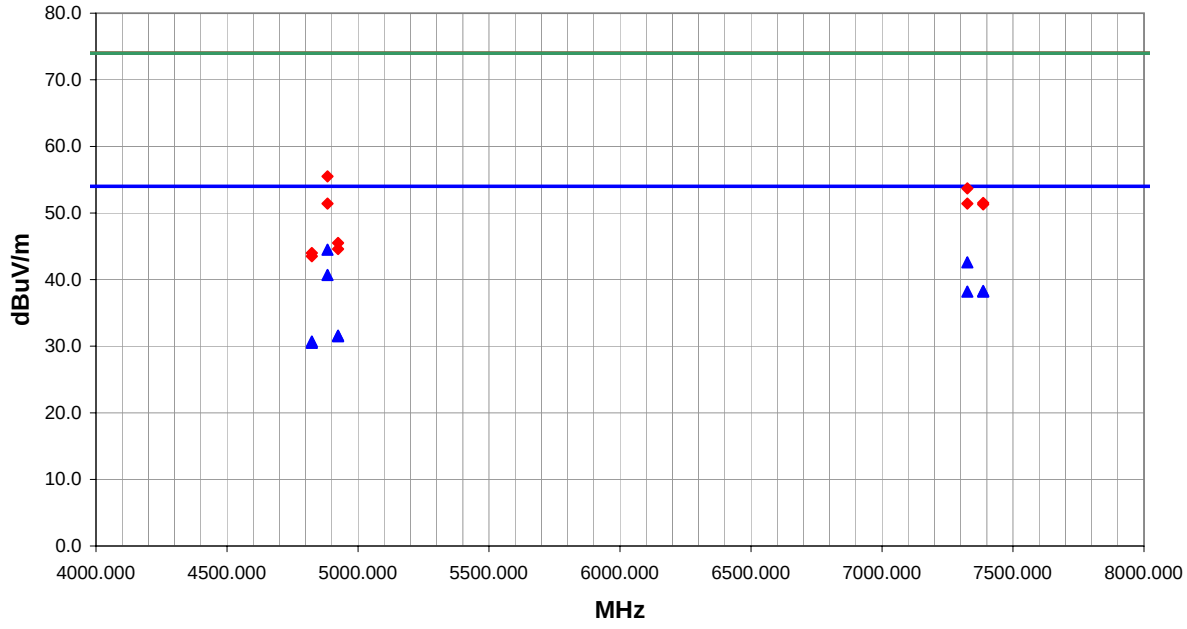
DEVIATIONS FROM TEST STANDARD

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.

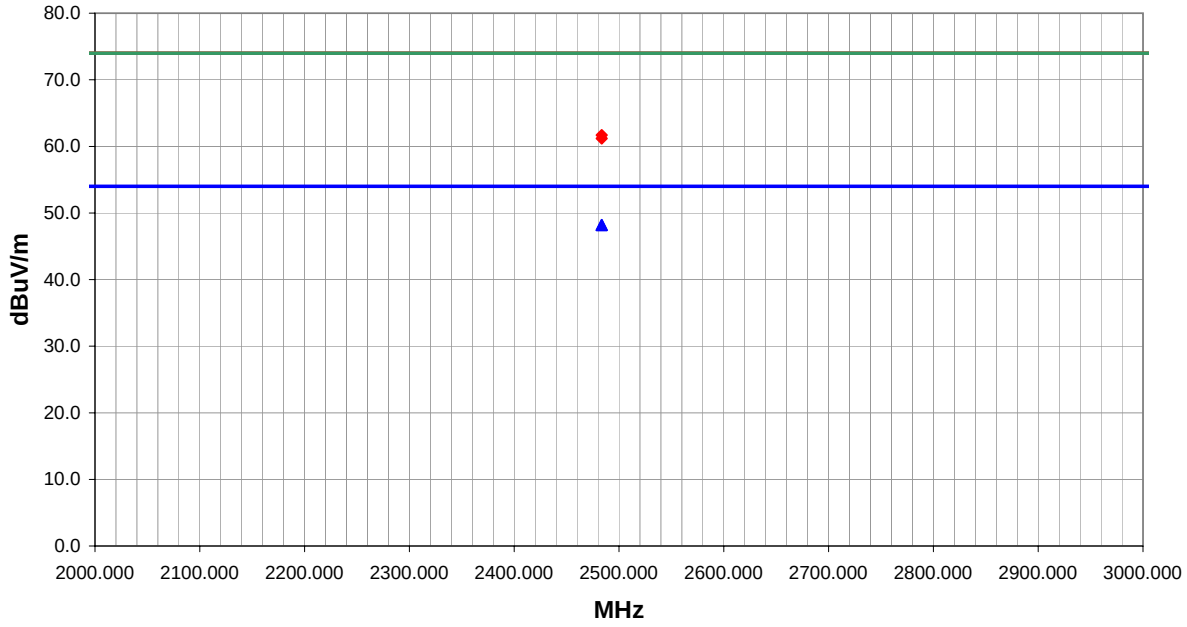
DEVIATIONS FROM TEST STANDARD

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.

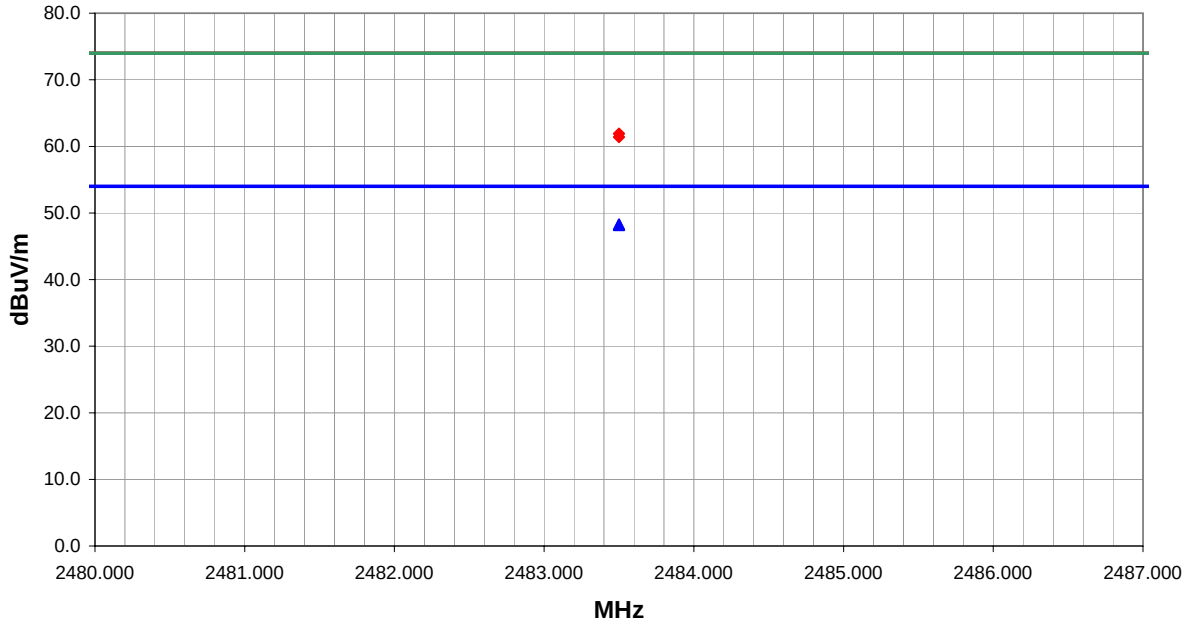
DEVIATIONS FROM TEST STANDARD

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.

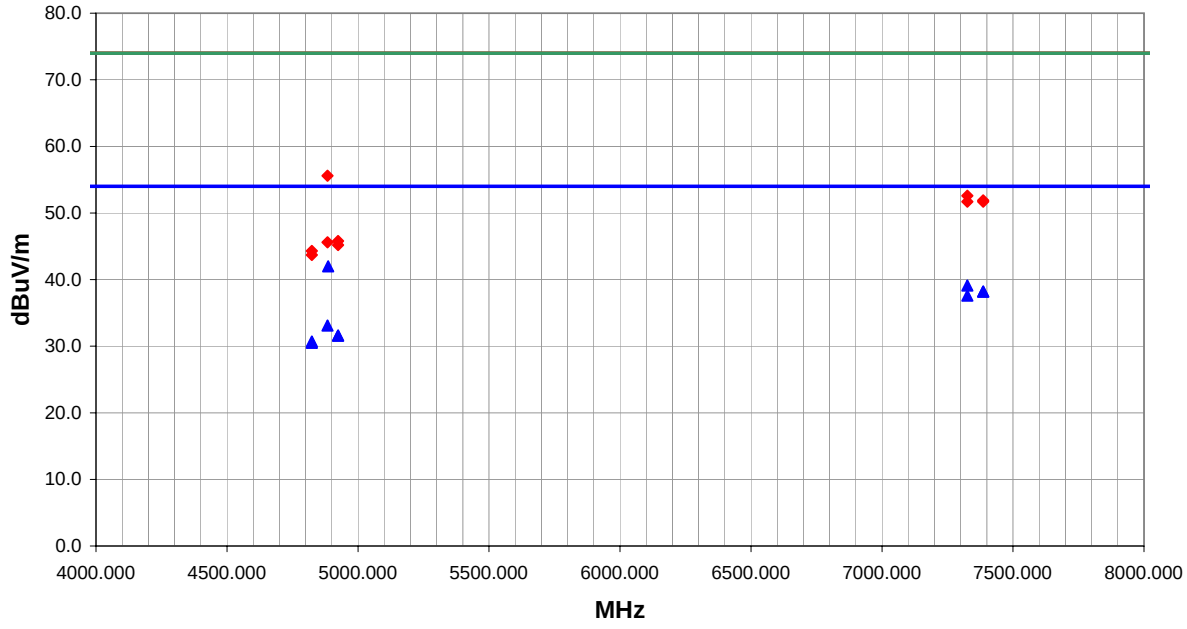
DEVIATIONS FROM TEST STANDARD

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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

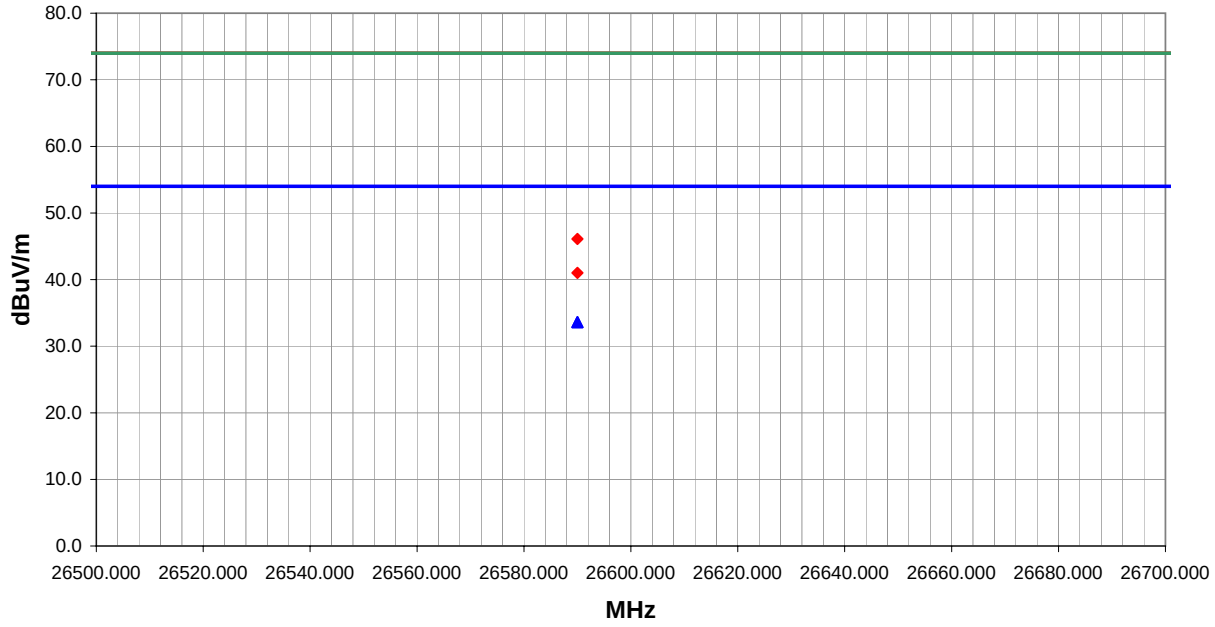
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	24

Other

Tested By: 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	V-High Horn	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 Horn	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 Horn	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 Horn	PK	0.0	41.0	74.0	-33.0

NORTHWEST EMC

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	Year:	2003
Method:	ANSI C63.4	Year:	1992

SAMPLE CALCULATIONS

EIRP = Signal Generator Output (dBm) - Cable Loss(dB) + Gain of Reference Antenna (dBi)

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.

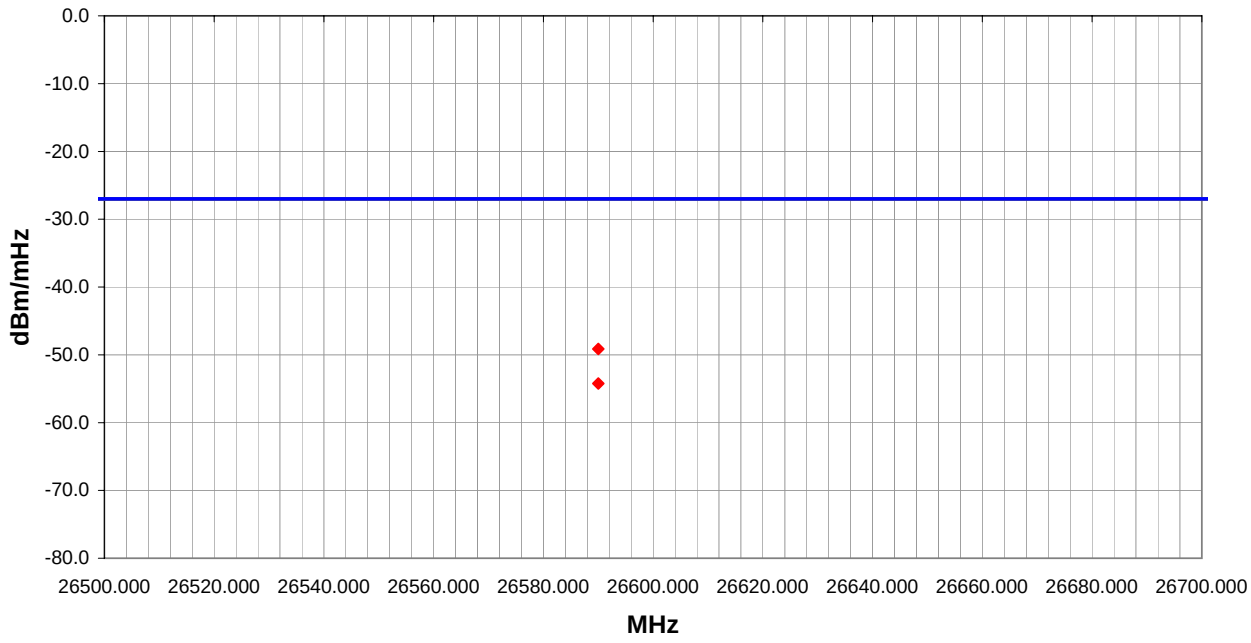
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	24

Other

Tested By: Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
26590.000			0.0	1.1			H-High Horn	PK		-49.1	-27.0	-22.1
26590.000			0.0	1.1			V-High Horn	PK		-54.2	-27.0	-27.2

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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

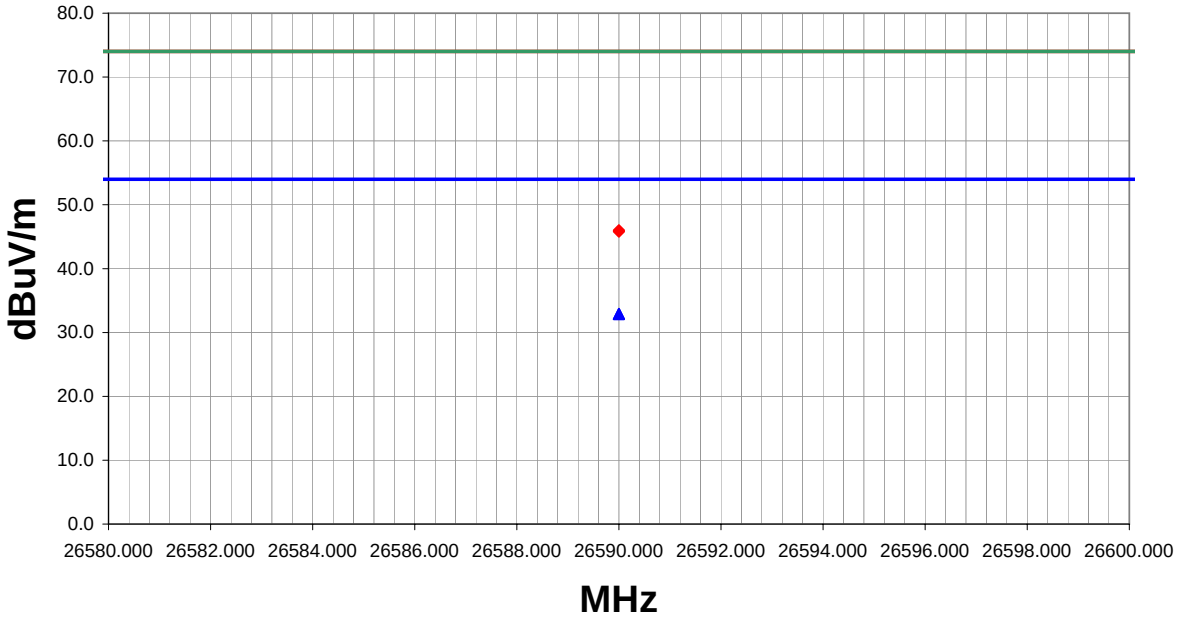
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	26

Other

Tested By: 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	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

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	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.

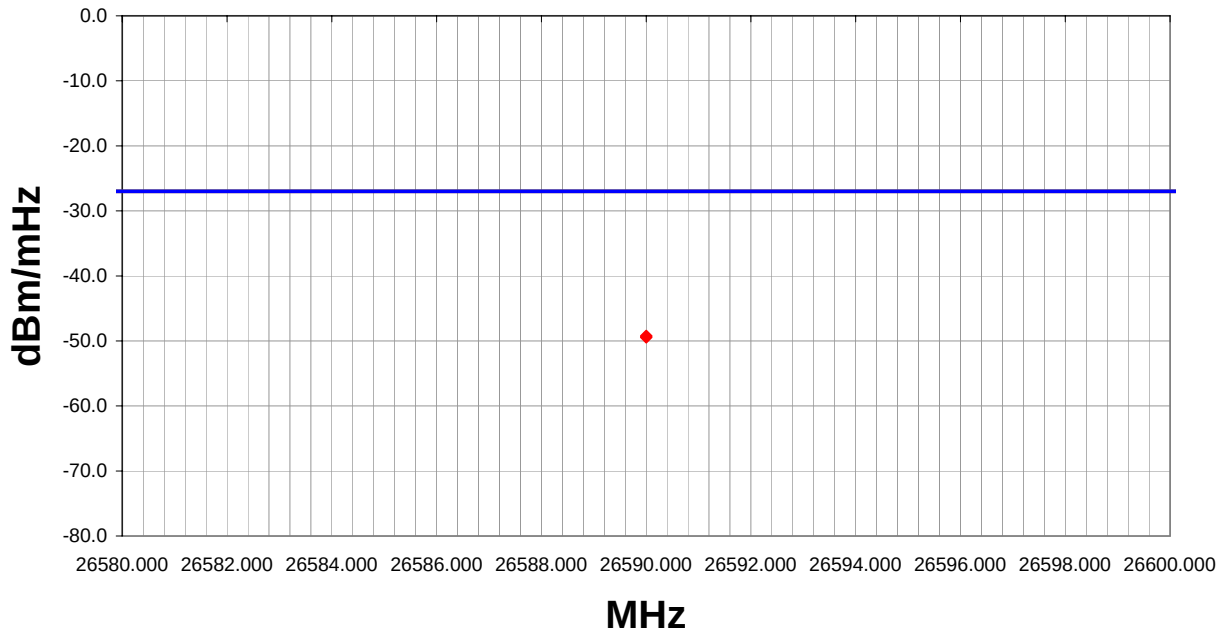
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	26

Other

Tested By: Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
26590.000			360.0	1.1			H-High Horr	PK		-49.2	-27.0	-22.2
26590.000			360.0	1.1			V-High Horr	PK		-49.4	-27.0	-22.4

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

REV df4.00 08/12/2003

EUT:	802MIG2 Radio			Work Order:	INMC0088
Serial Number:	none			Date:	09/26/03
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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

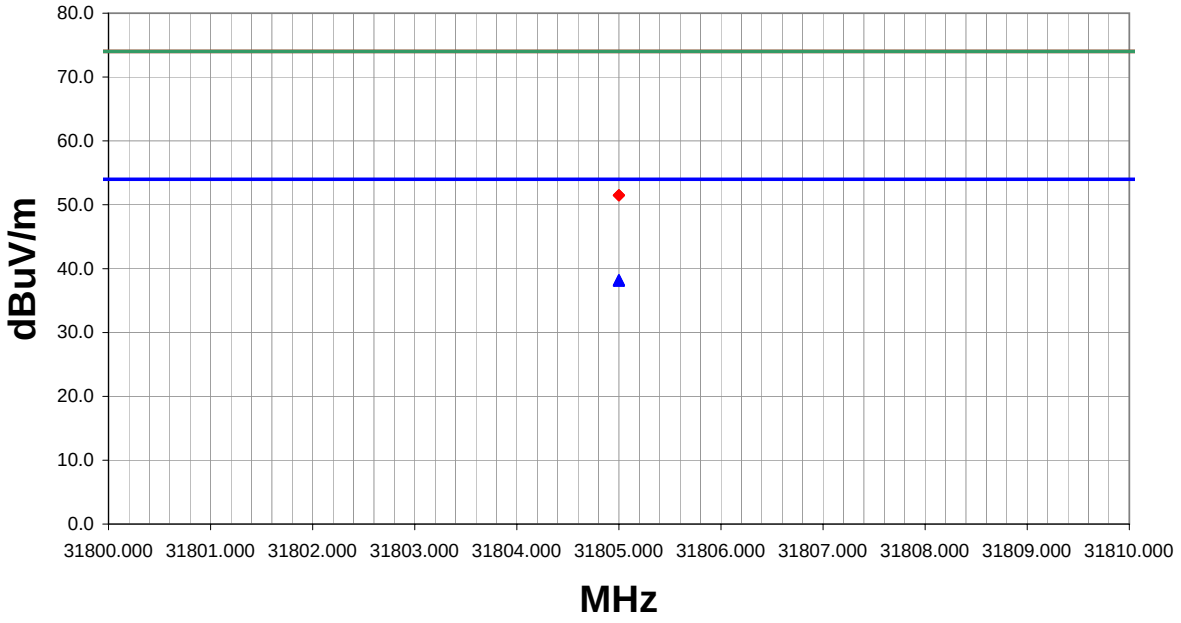
DEVIATIONS FROM TEST STANDARD

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

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	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.

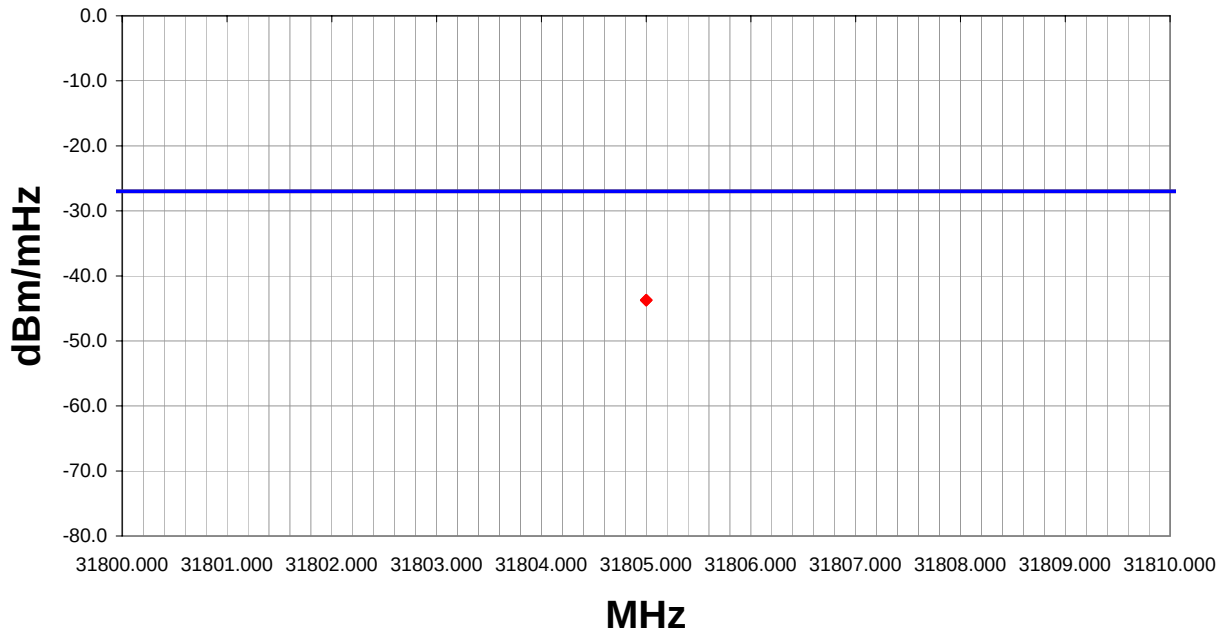
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	28

Other

Tested By:



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
31805.000			0.0	1.1			V-High Horr	PK		-43.7	-27.0	-16.7
31805.000			0.0	1.1			H-High Horr	PK		-43.7	-27.0	-16.7

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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

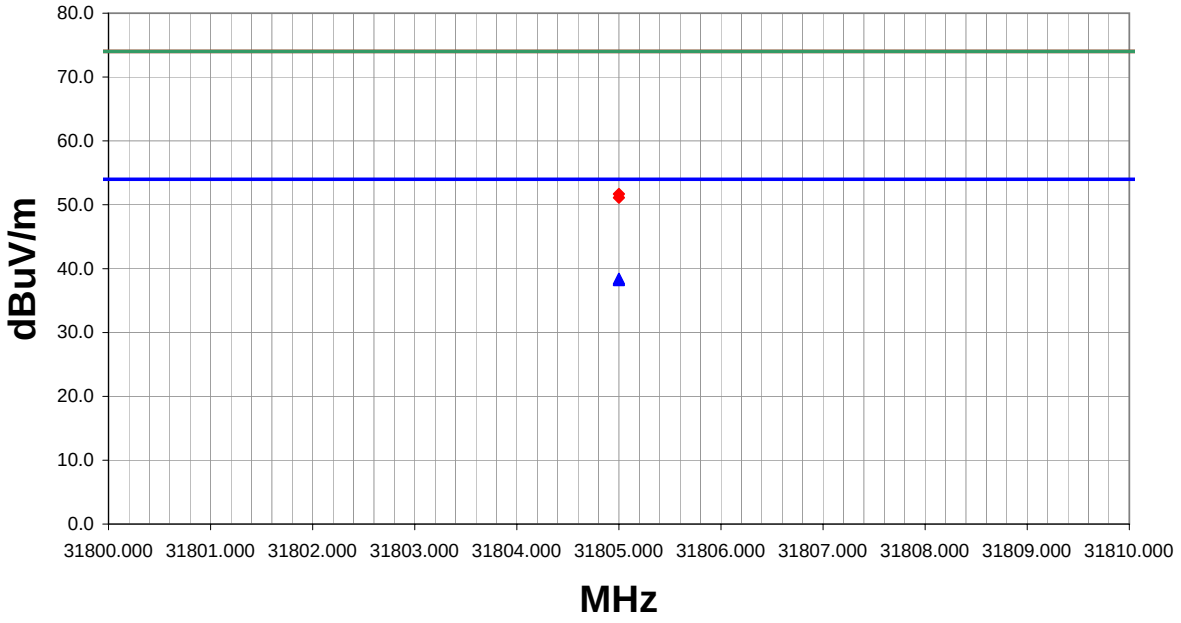
DEVIATIONS FROM TEST STANDARD

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

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	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.

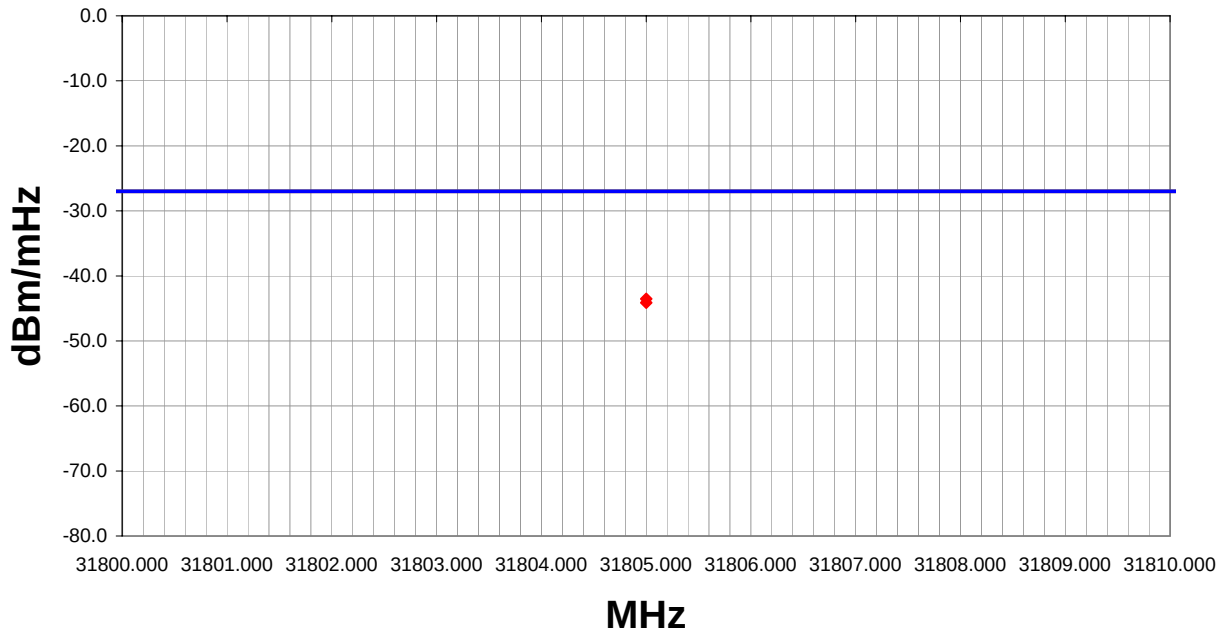
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	30

Other

Tested By: Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
31805.000			0.0	1.1			H-High Horr	PK		-43.5	-27.0	-16.5
31805.000			0.0	1.1			V-High Horr	PK		-44.1	-27.0	-17.1

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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

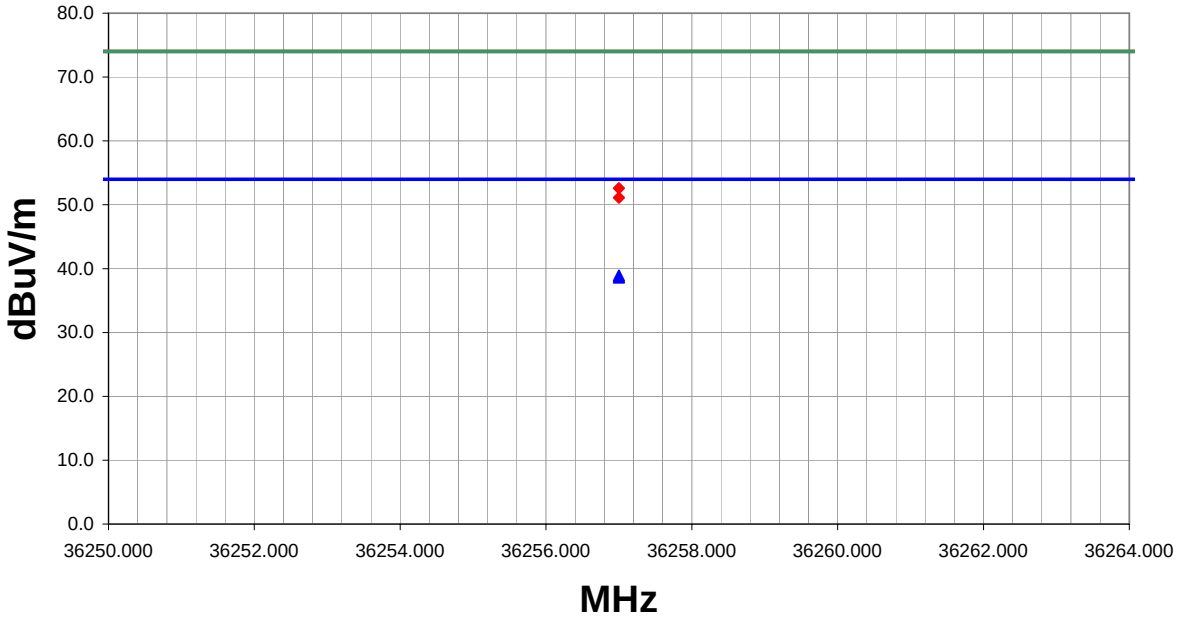
DEVIATIONS FROM TEST STANDARD

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

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	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.

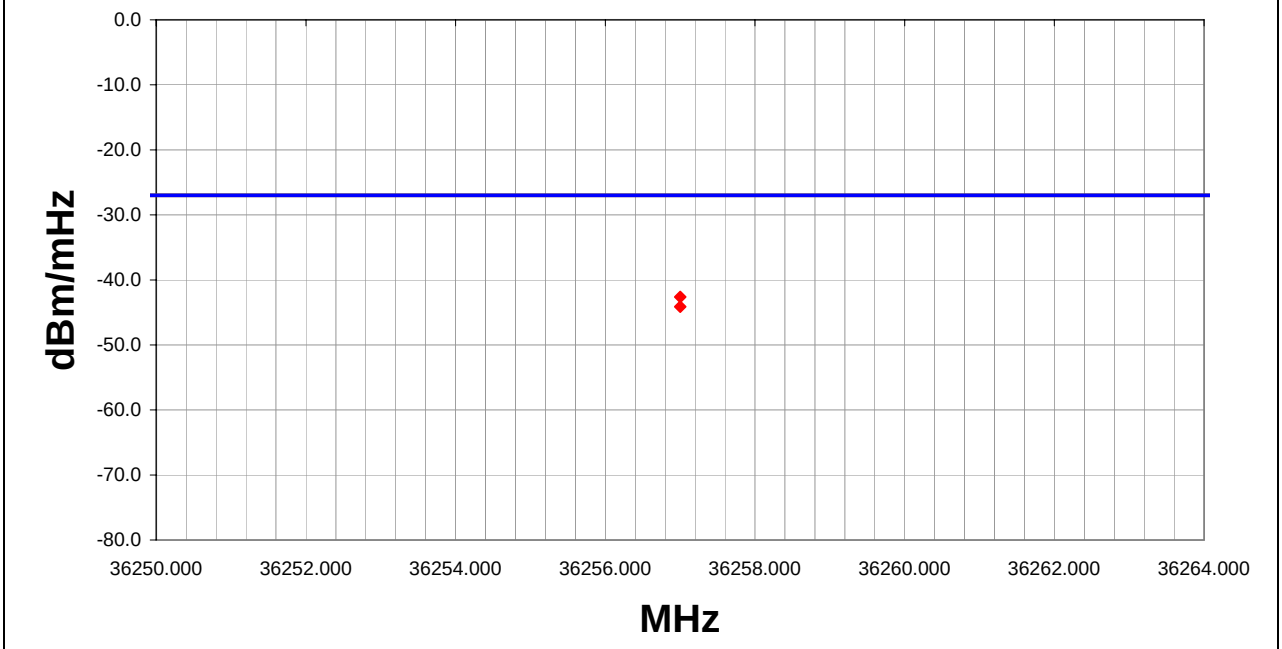
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	10

Other

Tested By:



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
36257.000			0.0	1.1			H-High Horr	PK		-42.6	-27.0	-15.6
36257.000			0.0	1.1			V-High Horr	PK		-44.1	-27.0	-17.1

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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

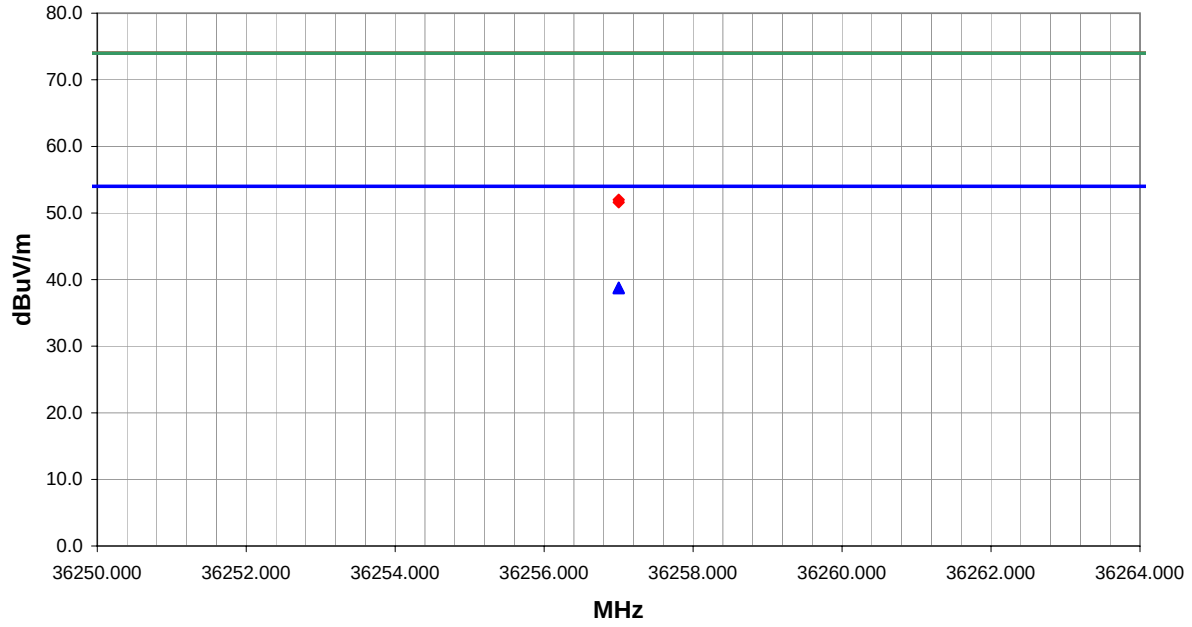
DEVIATIONS FROM TEST STANDARD

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

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	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.

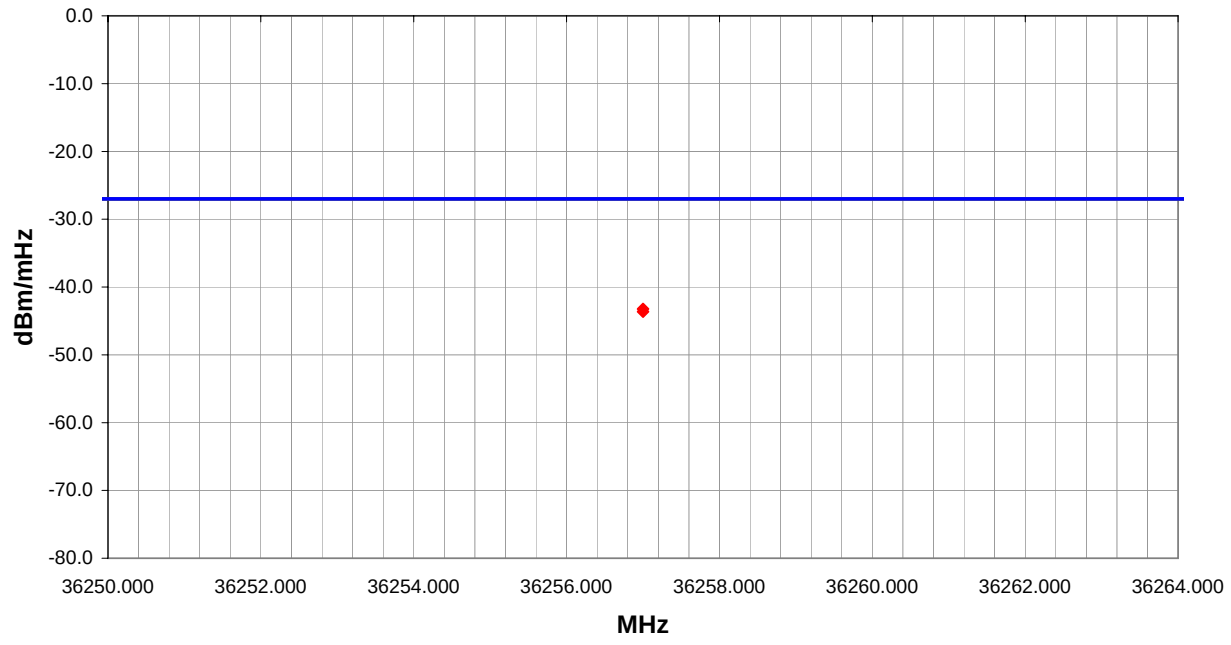
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	34

Other

Tested By:



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
36257.000			0.0	1.1			H-High Horr	PK		-43.2	-27.0	-16.2
36257.000			0.0	1.1			V-High Horr	PK		-43.6	-27.0	-16.6

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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

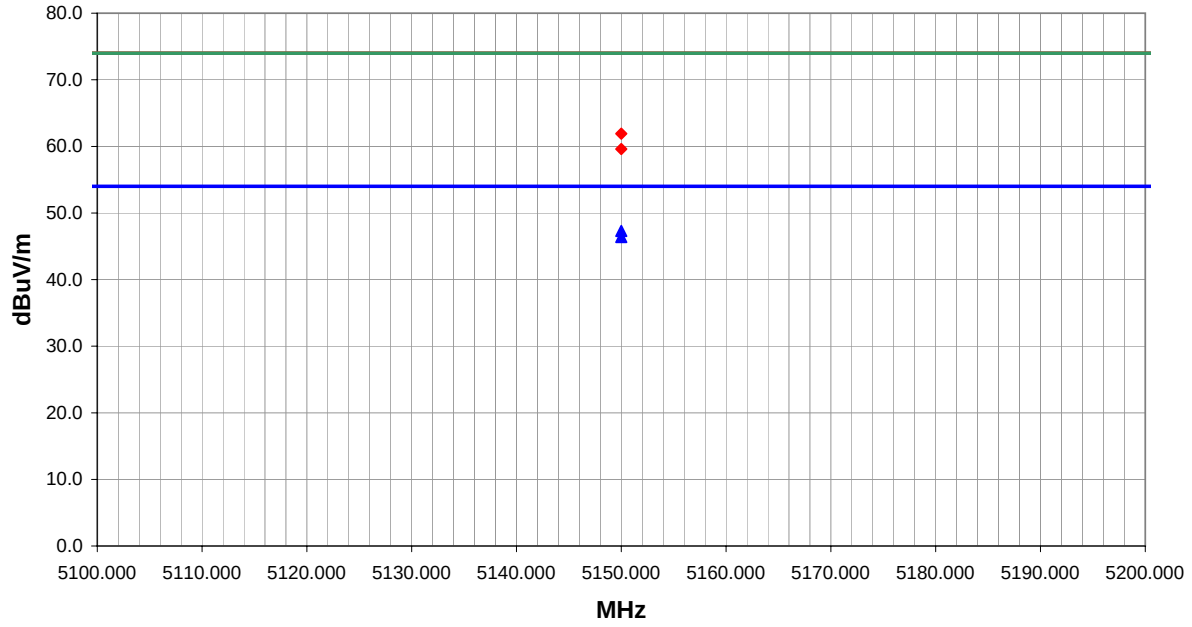
DEVIATIONS FROM TEST STANDARD

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

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	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.

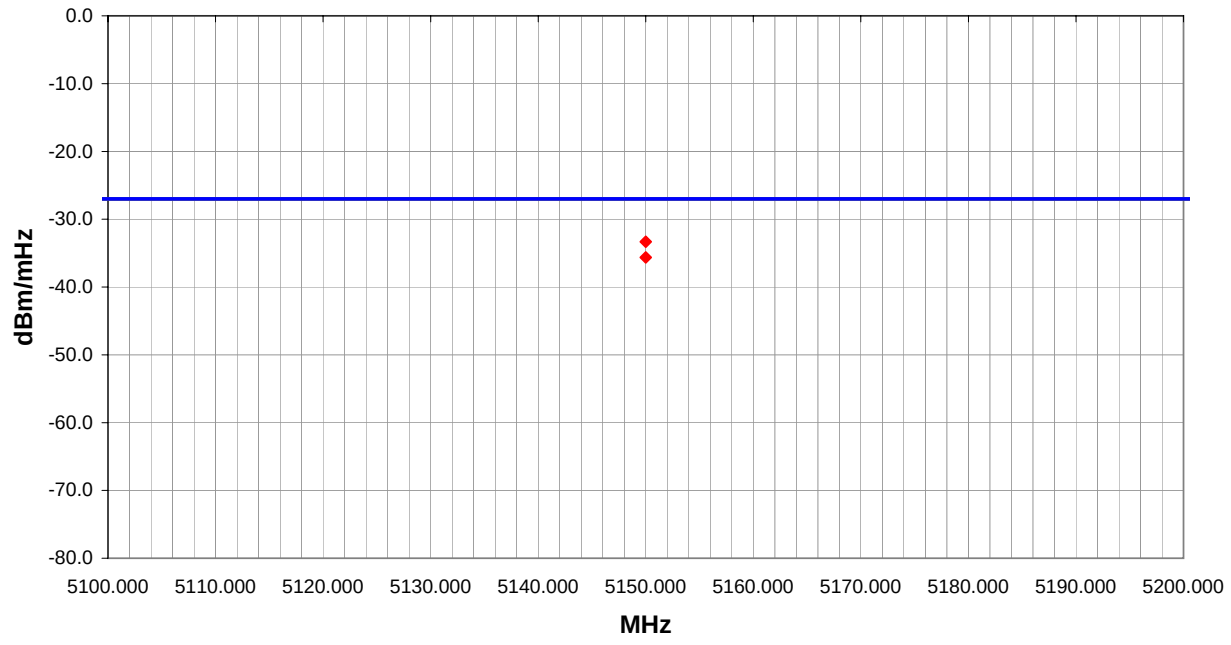
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	56

Other

Tested By: Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
5150.000			139.0	1.3			V-Horn	PK		-33.3	-27.0	-6.3
5150.000			360.0	1.0			H-Horn	PK		-35.6	-27.0	-8.6

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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

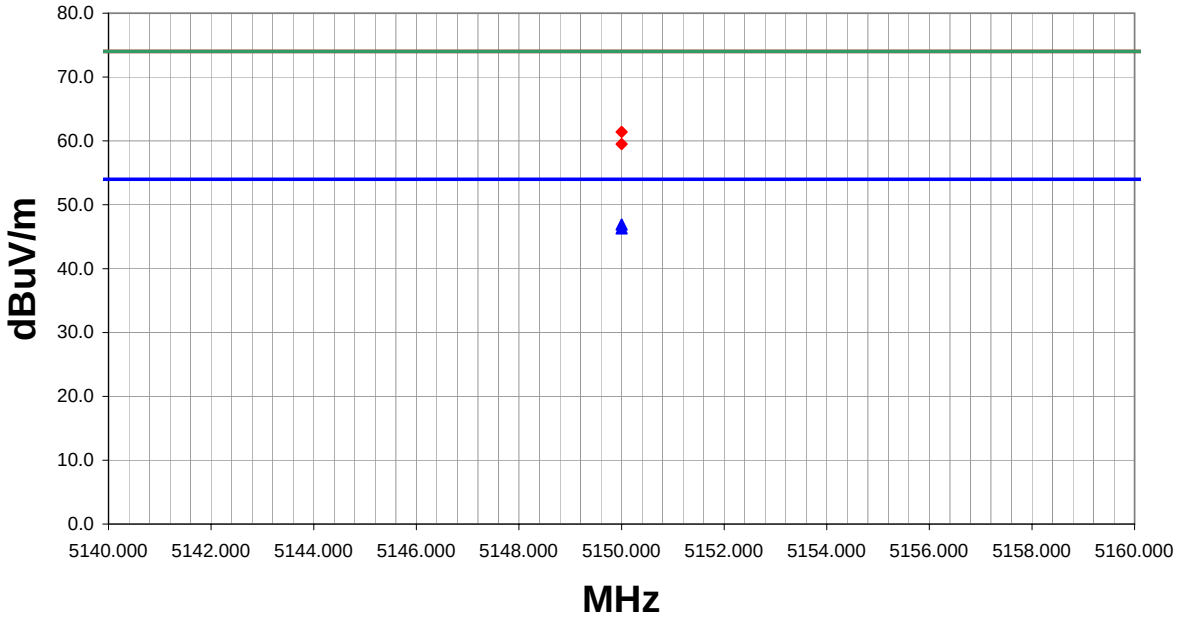
DEVIATIONS FROM TEST STANDARD

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

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	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.

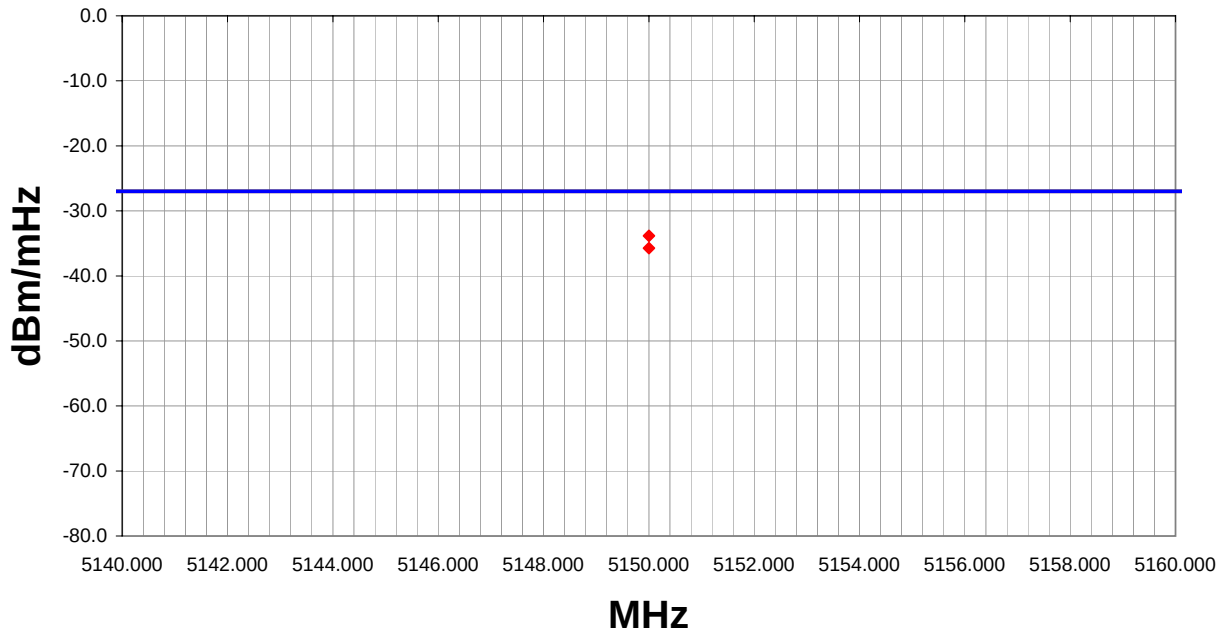
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	58

Other

Tested By:



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
5150.000			140.0	1.3			V-Horn	PK		-33.8	-27.0	-6.8
5150.000			360.0	1.0			H-Horn	PK		-35.7	-27.0	-8.7

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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

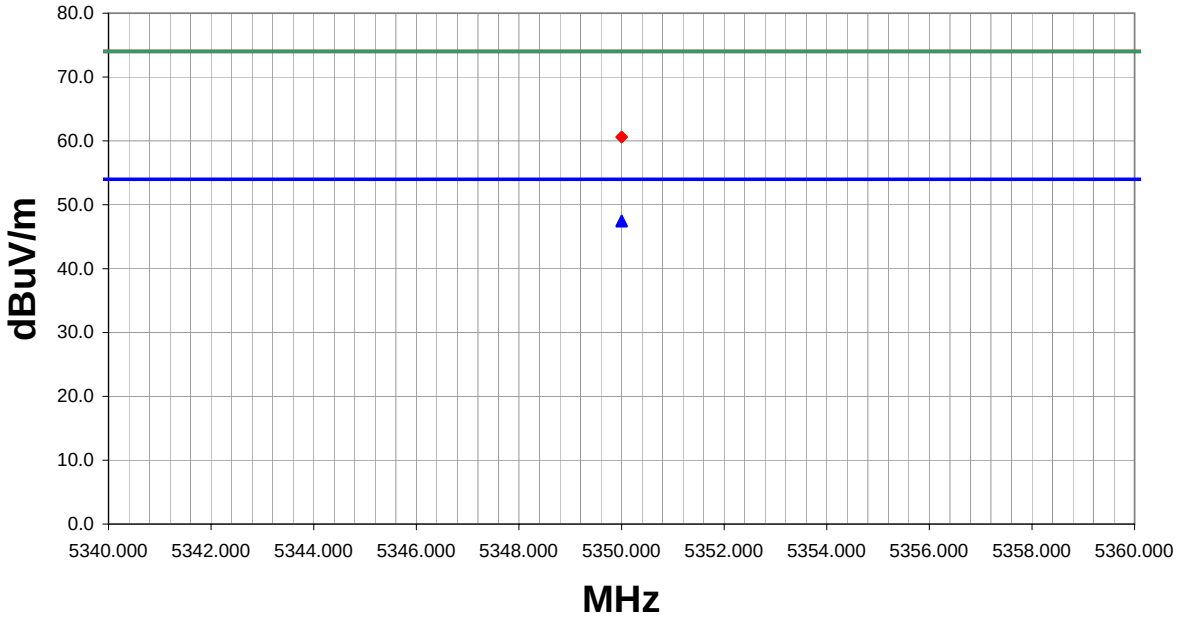
DEVIATIONS FROM TEST STANDARD

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

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	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.

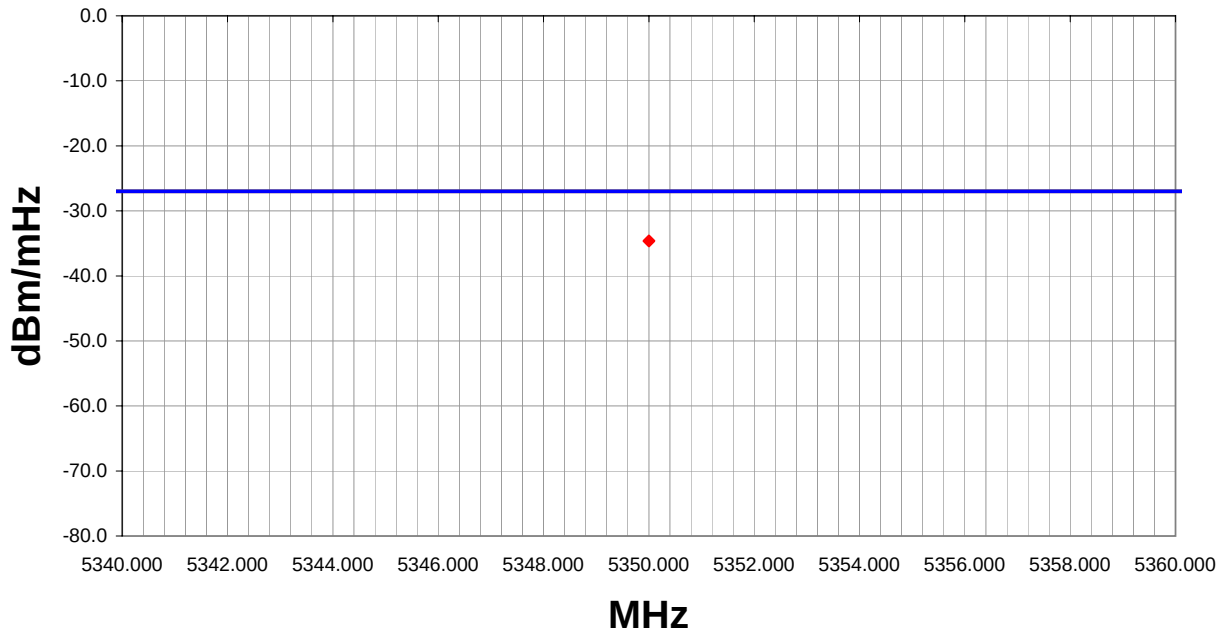
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	60

Other

Tested By: Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
5350.000			0.0	1.0			H-Horn	PK		-34.6	-27.0	-7.6
5350.000			360.0	1.0			V-Horn	PK		-34.6	-27.0	-7.6

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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

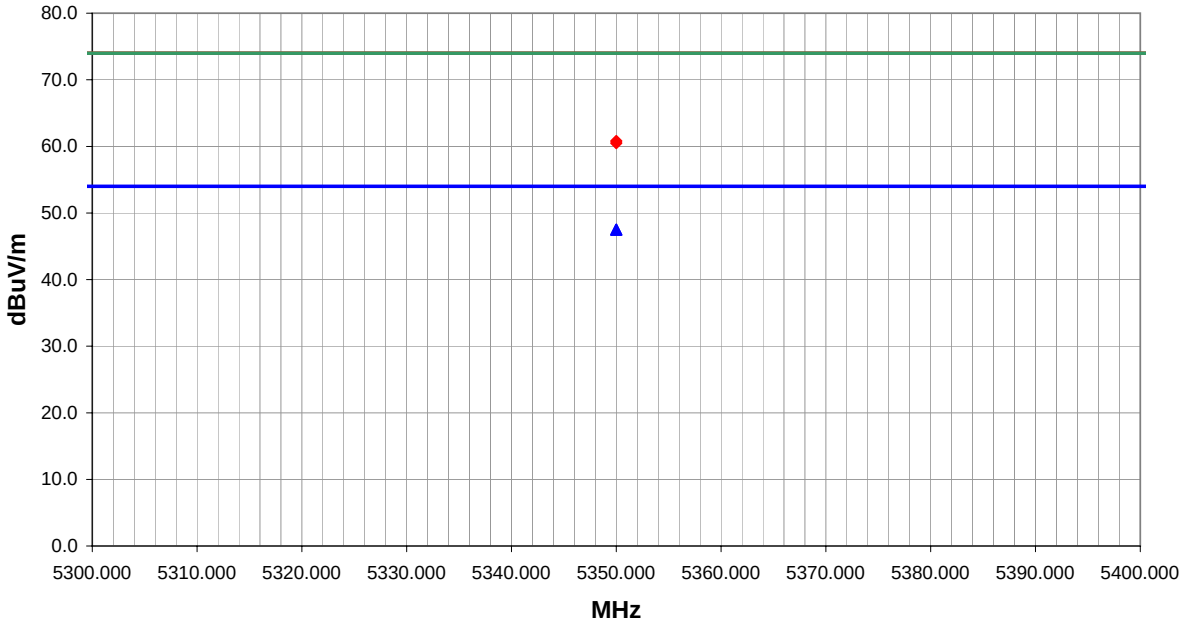
DEVIATIONS FROM TEST STANDARD

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

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	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.

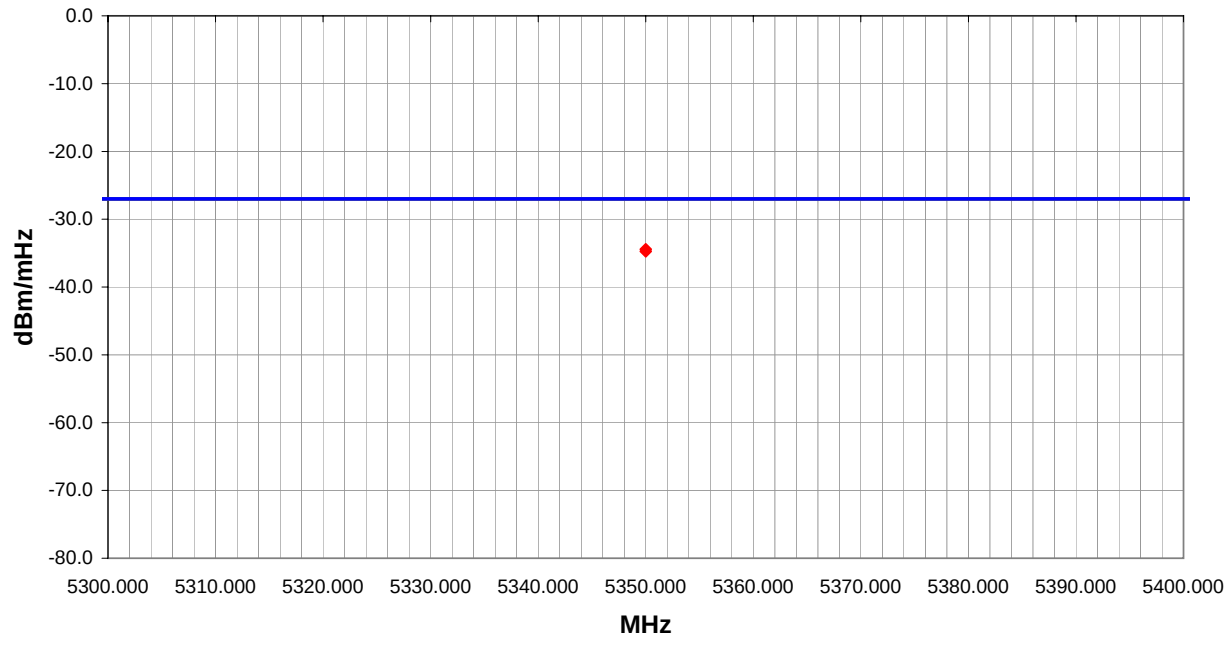
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	62

Other

Tested By: Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
5350.000			0.0	1.0			V-Horn	PK		-34.4	-27.0	-7.4
5350.000			360.0	1.0			H-Horn	PK		-34.7	-27.0	-7.7

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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

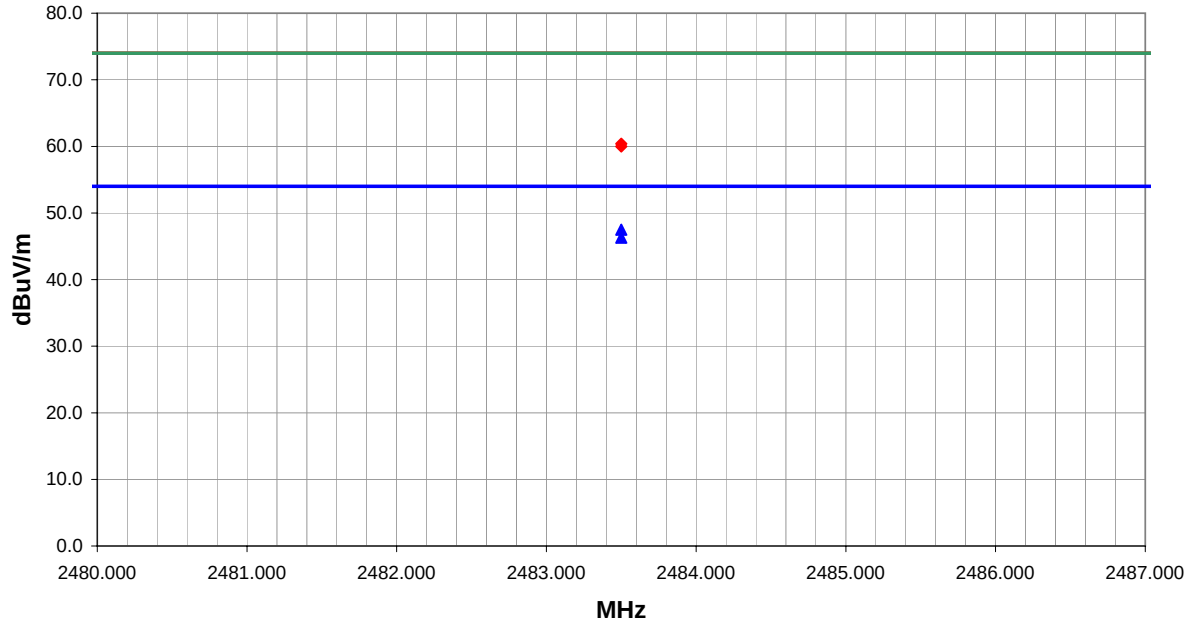
DEVIATIONS FROM TEST STANDARD

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

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	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.

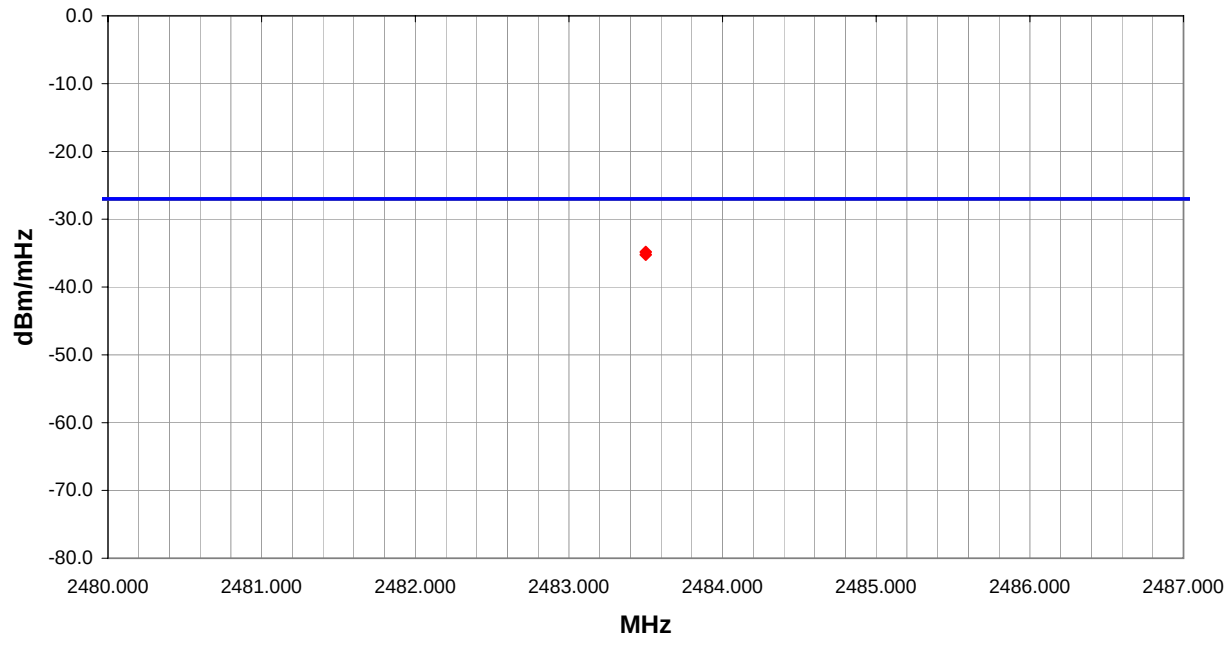
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	64

Other

Tested By: Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
2483.500			117.0	1.3			H-Horn	PK		-34.8	-27.0	-7.8
2483.500			173.0	1.2			V-Horn	PK		-35.2	-27.0	-8.2

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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

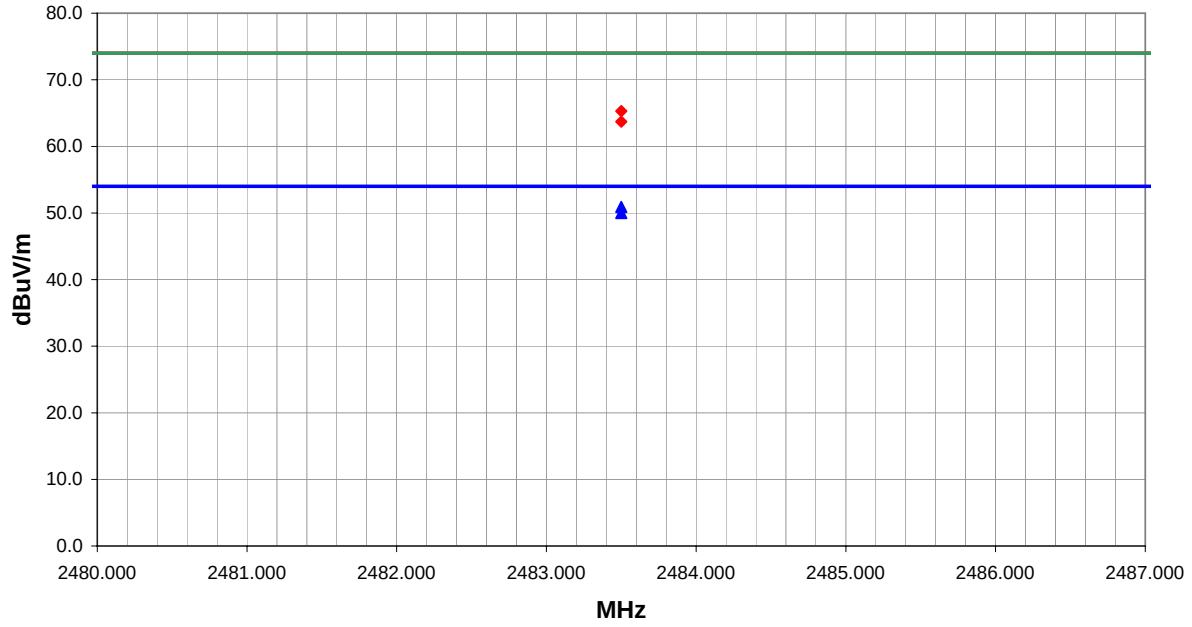
DEVIATIONS FROM TEST STANDARD

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

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	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.

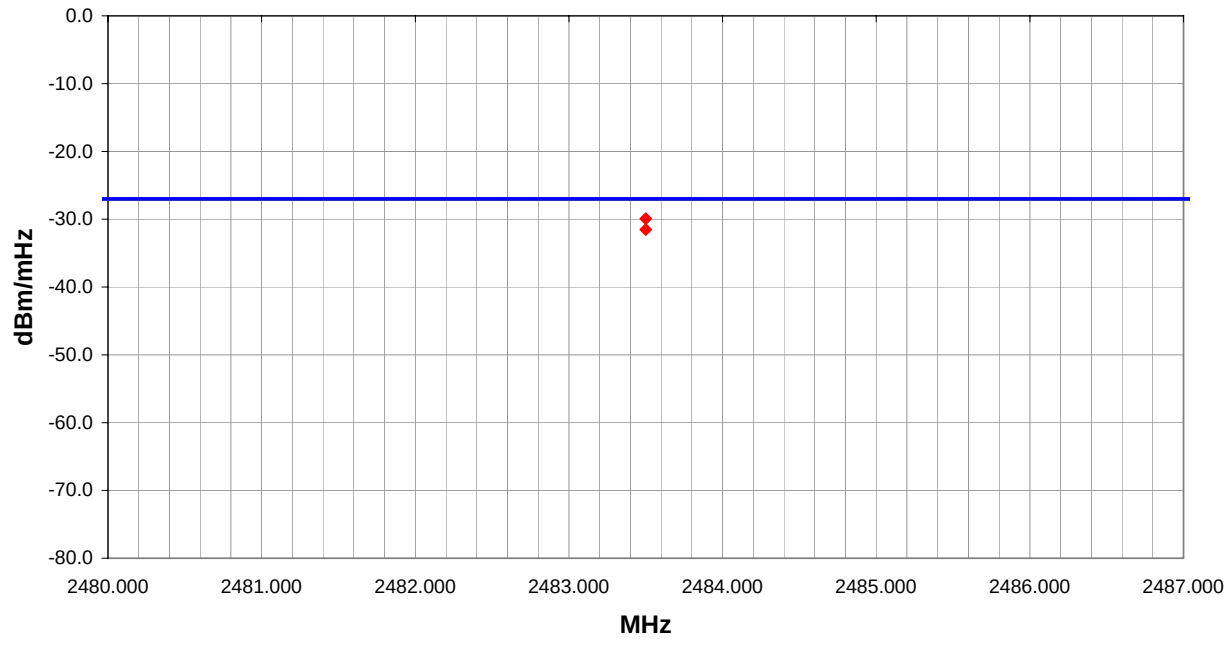
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	66

Other

Tested By: Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
2483.500			116.0	1.3			H-Horn	PK		-29.9	-27.0	-2.9
2483.500			84.0	1.2			V-Horn	PK		-31.5	-27.0	-4.5

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.

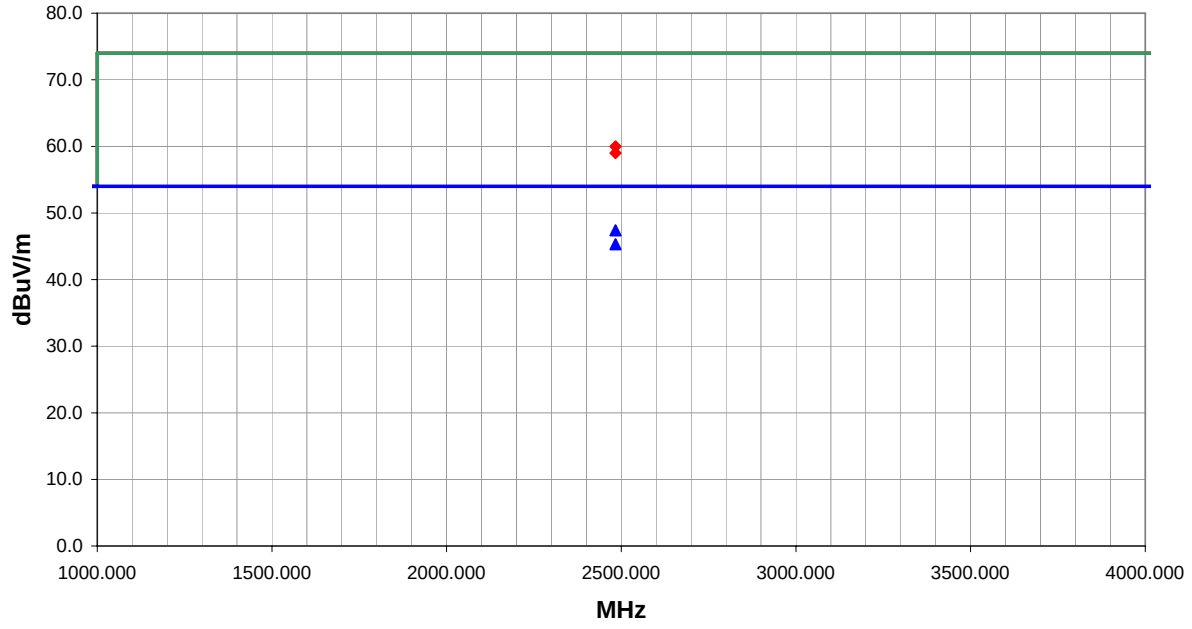
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	71

Other

Tested By:



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.

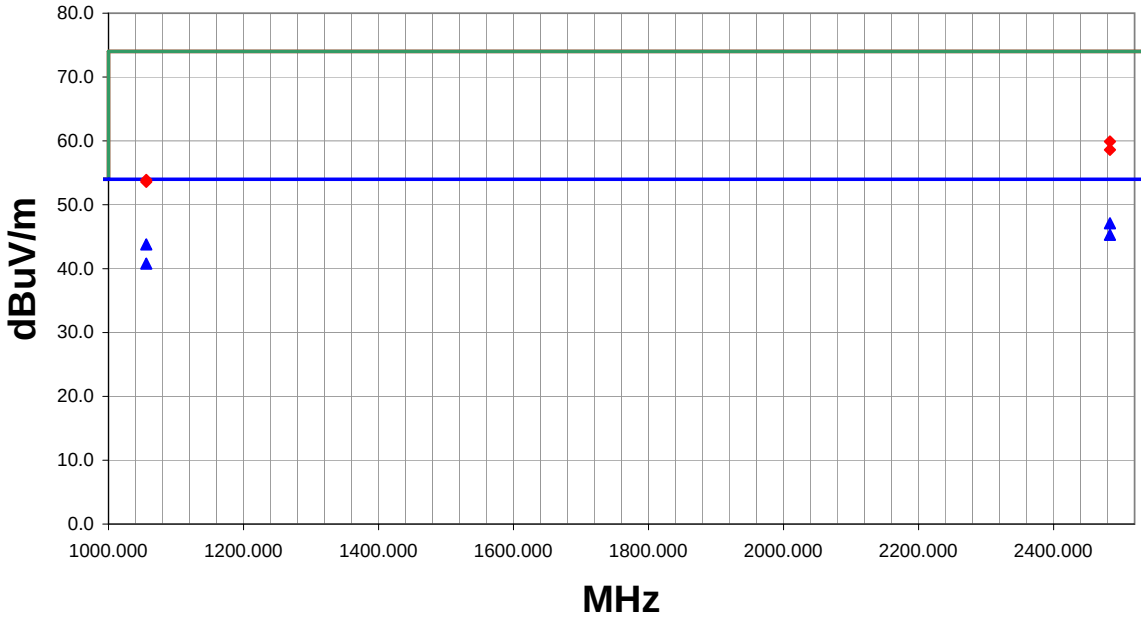
DEVIATIONS FROM TEST STANDARD

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.

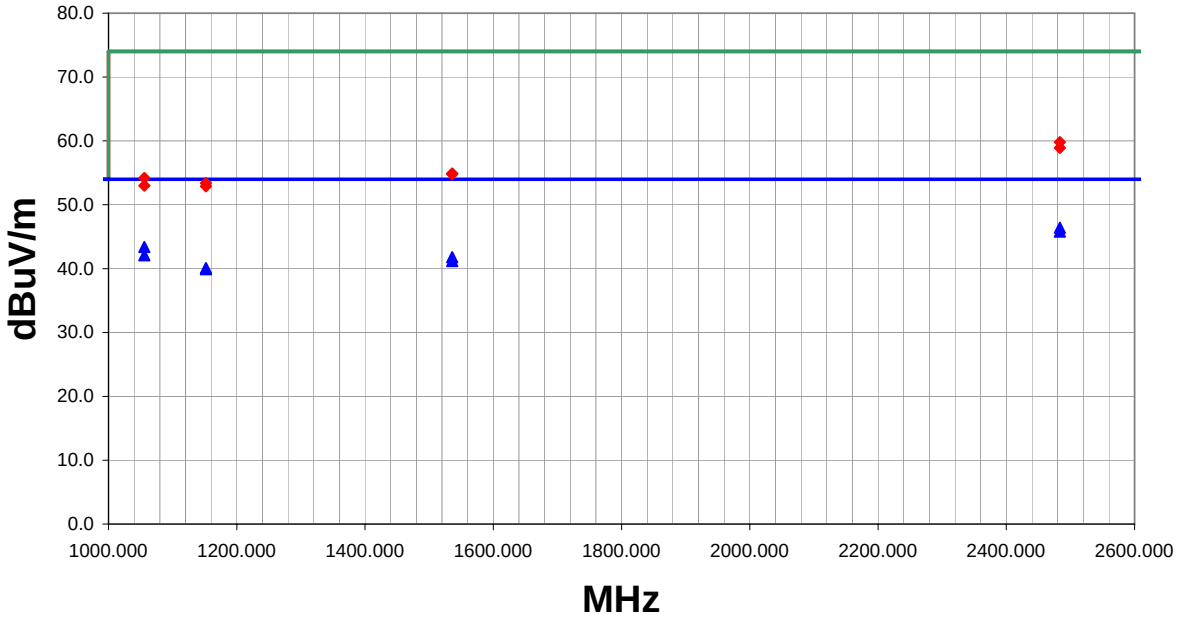
DEVIATIONS FROM TEST STANDARD

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.

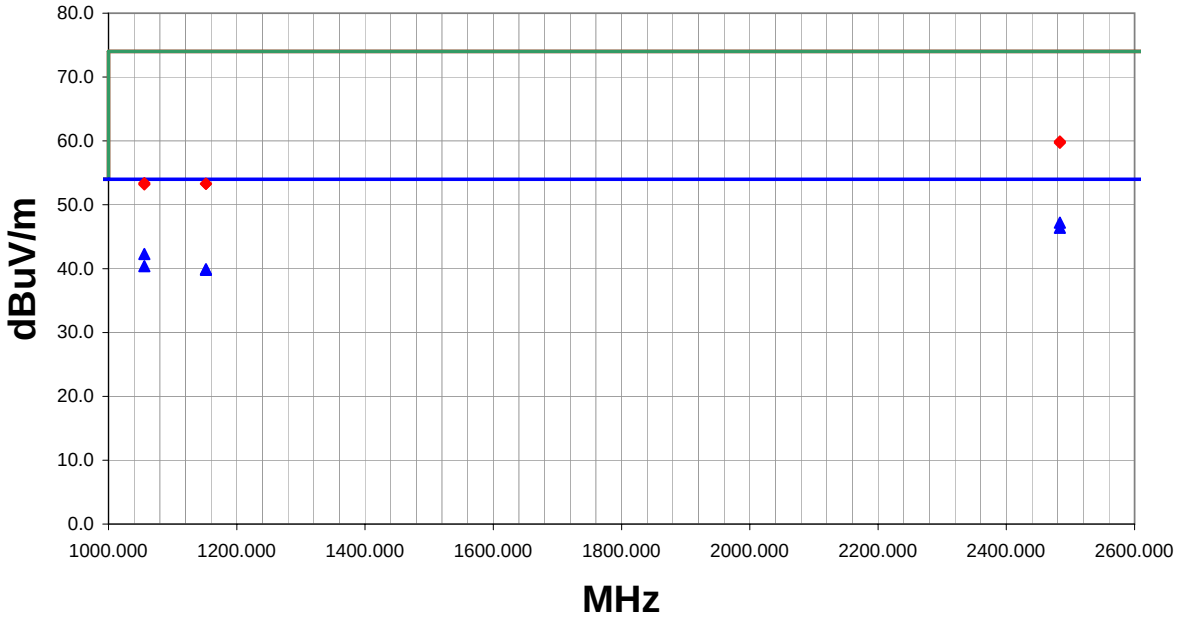
DEVIATIONS FROM TEST STANDARD

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.

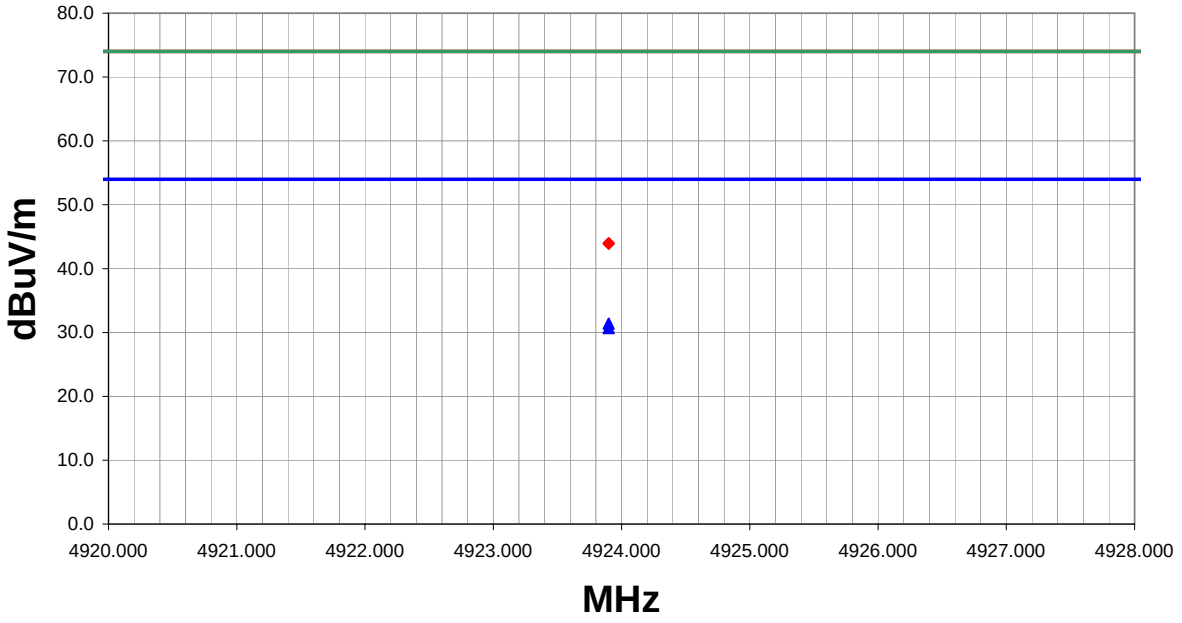
DEVIATIONS FROM TEST STANDARD

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.

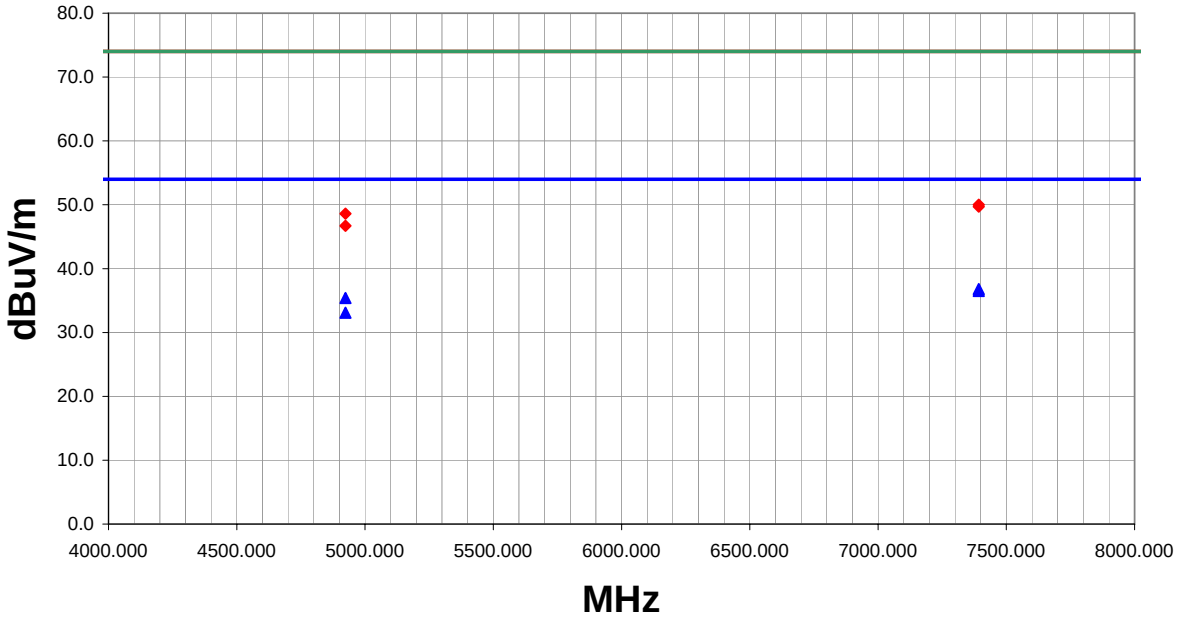
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	76

Other

Tested By:



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.

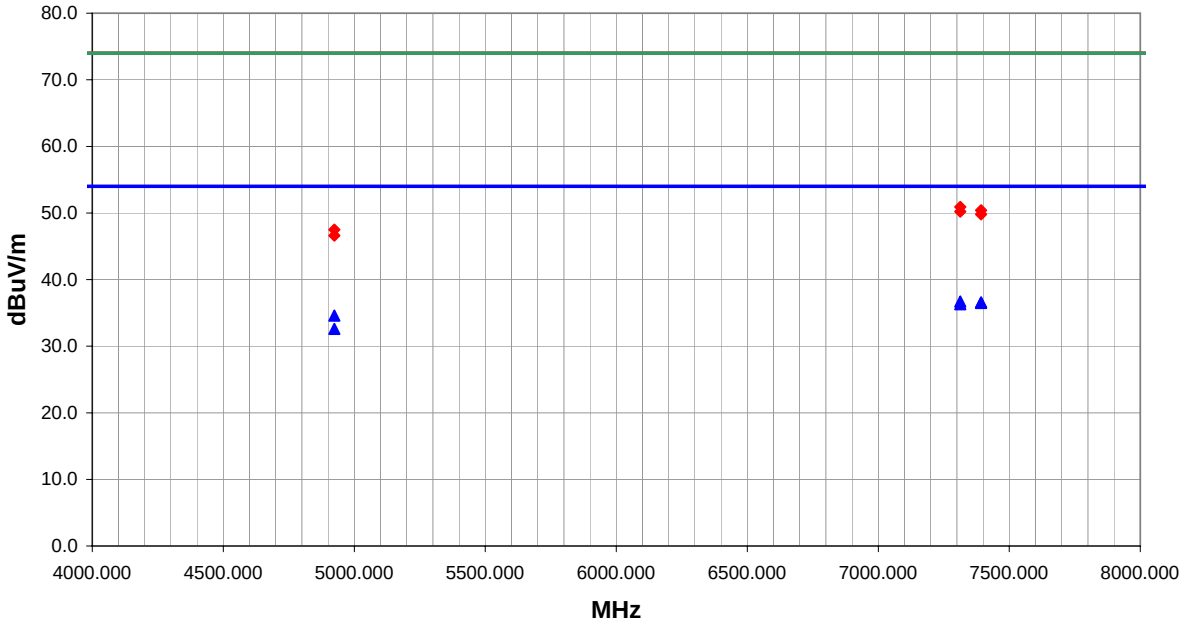
DEVIATIONS FROM TEST STANDARD

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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

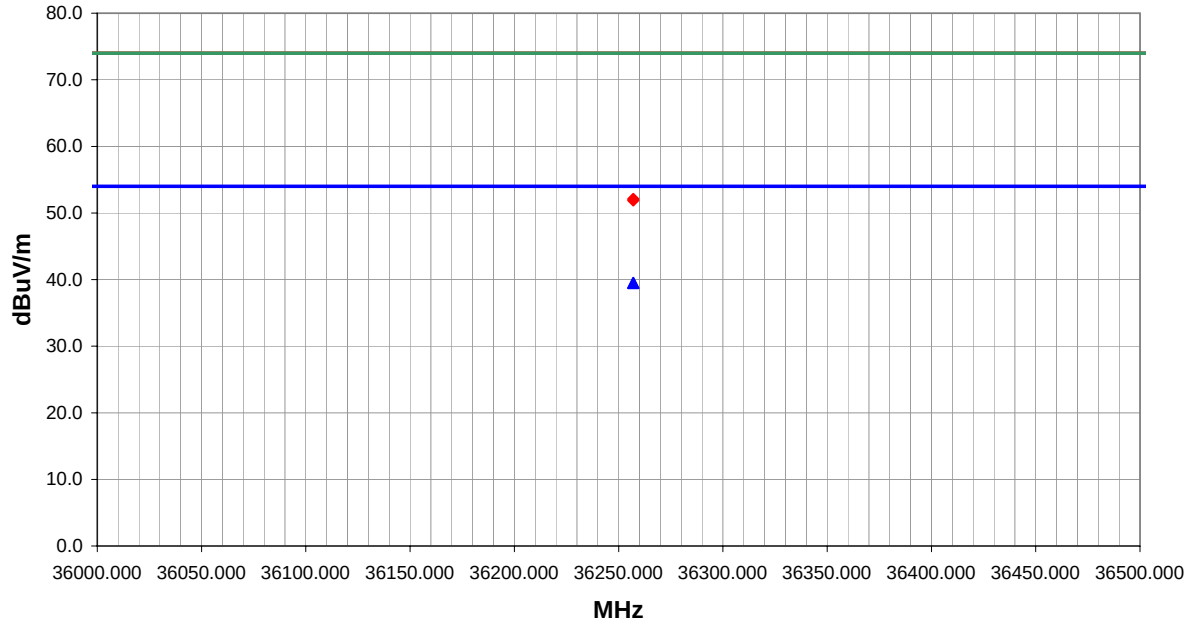
DEVIATIONS FROM TEST STANDARD

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

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	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.

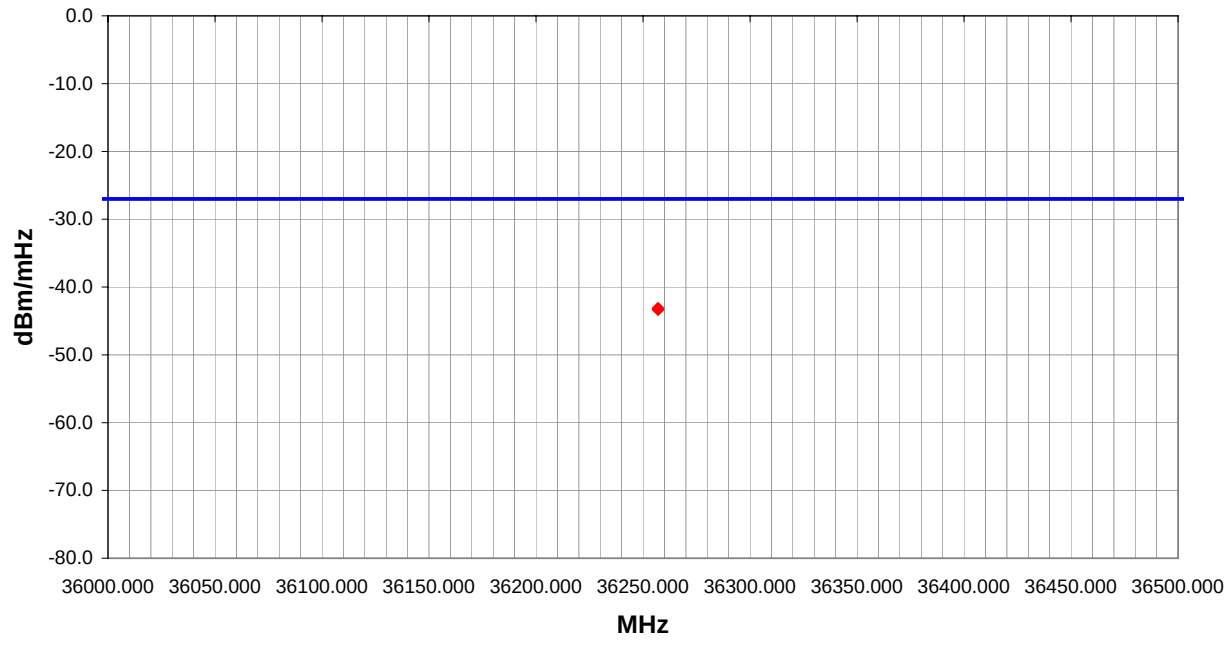
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	36

Other

Tested By: Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
36257.000			0.0	1.1			V-High Horr	PK		-43.1	-27.0	-16.1
36257.000			0.0	1.1			H-High Horr	PK		-43.3	-27.0	-16.3

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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

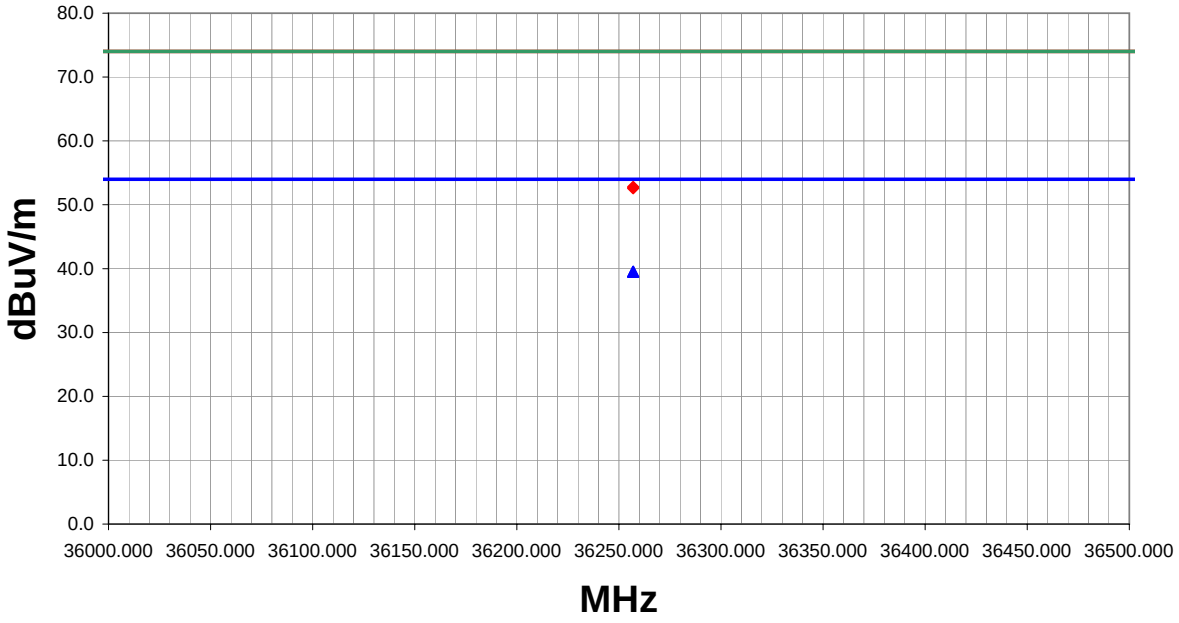
DEVIATIONS FROM TEST STANDARD

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

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	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.

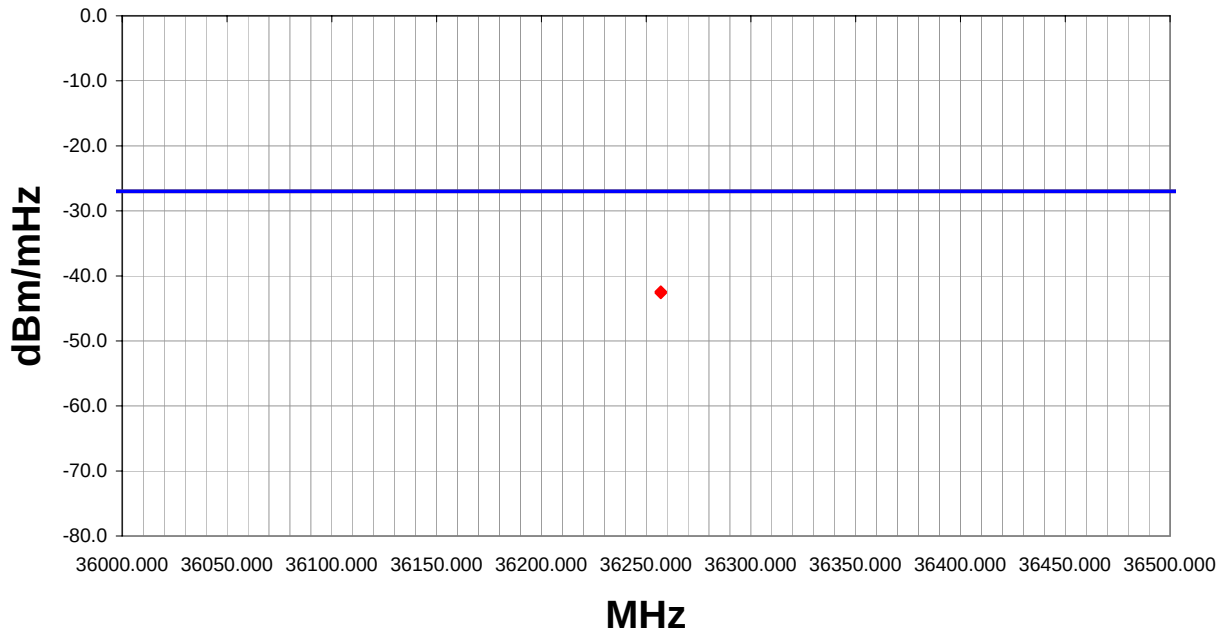
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	38

Other

Tested By: Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
36257.000			0.0	1.1			H-High Horr	PK		-42.4	-27.0	-15.4
36257.000			0.0	1.1			V-High Horr	PK		-42.6	-27.0	-15.6

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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

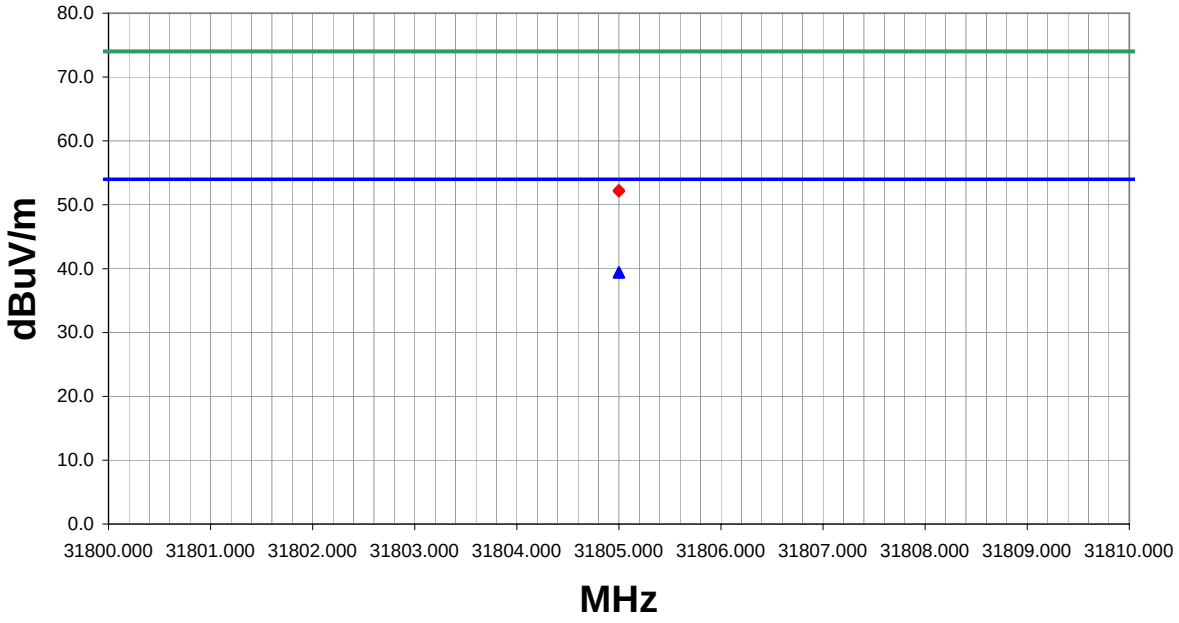
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	40

Other

Tested By:



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

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	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.

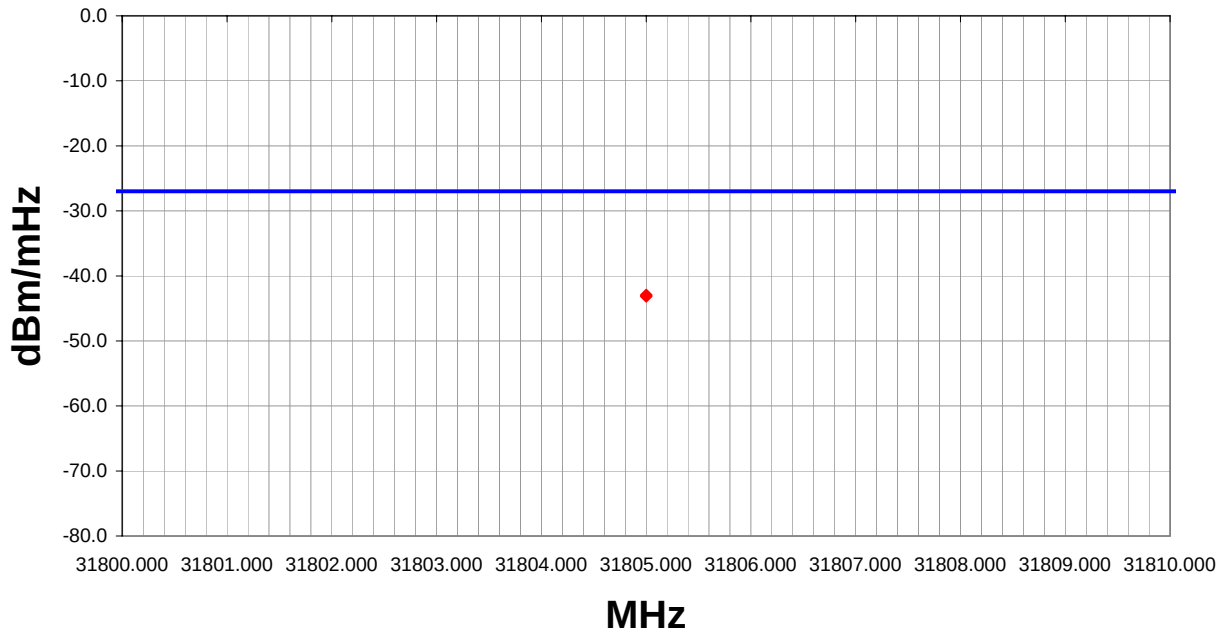
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	40

Other

Tested By: Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
31805.000			0.0	1.1			H-High Horr	PK		-42.9	-27.0	-15.9
31805.000			0.0	1.1			V-High Horr	PK		-43.1	-27.0	-16.1

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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

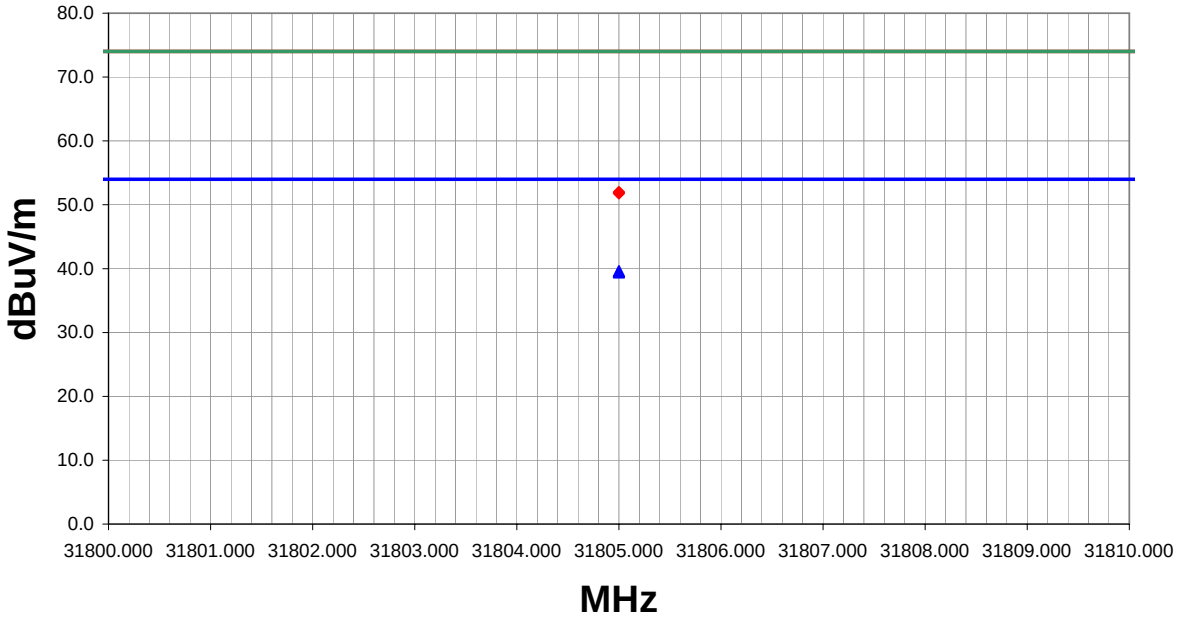
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	42

Other

Tested By:



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

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	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.

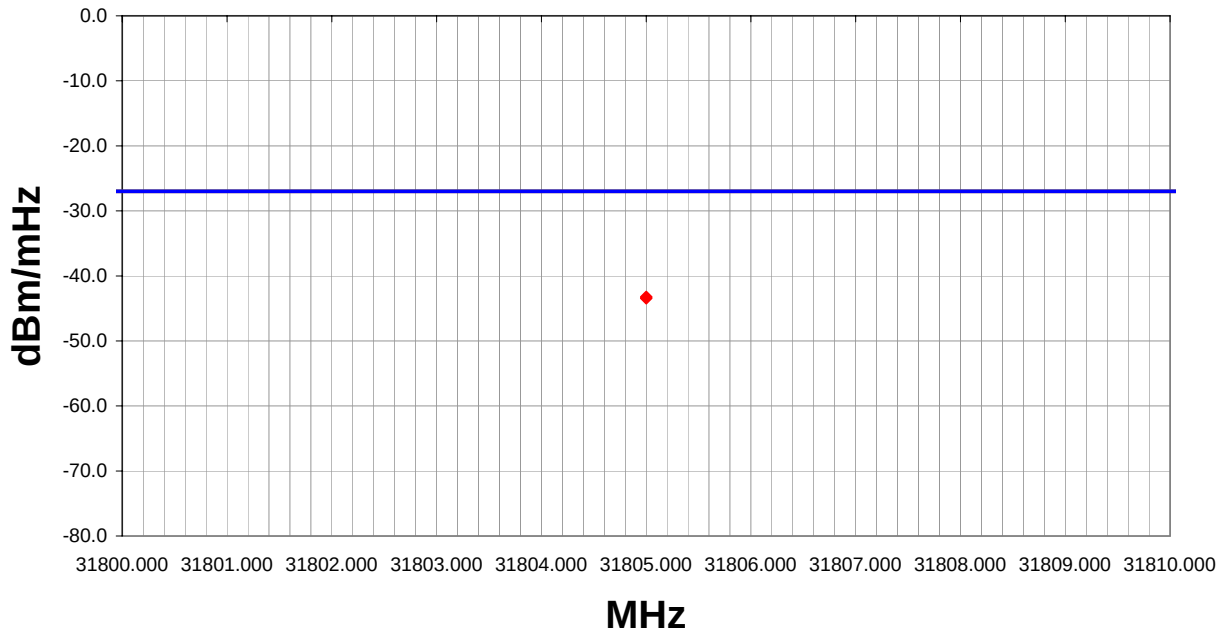
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	42

Other

Tested By: Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
31805.000			0.0	1.1			H-High Horr	PK		-43.2	-27.0	-16.2
31805.000			0.0	1.1			V-High Horr	PK		-43.4	-27.0	-16.4

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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

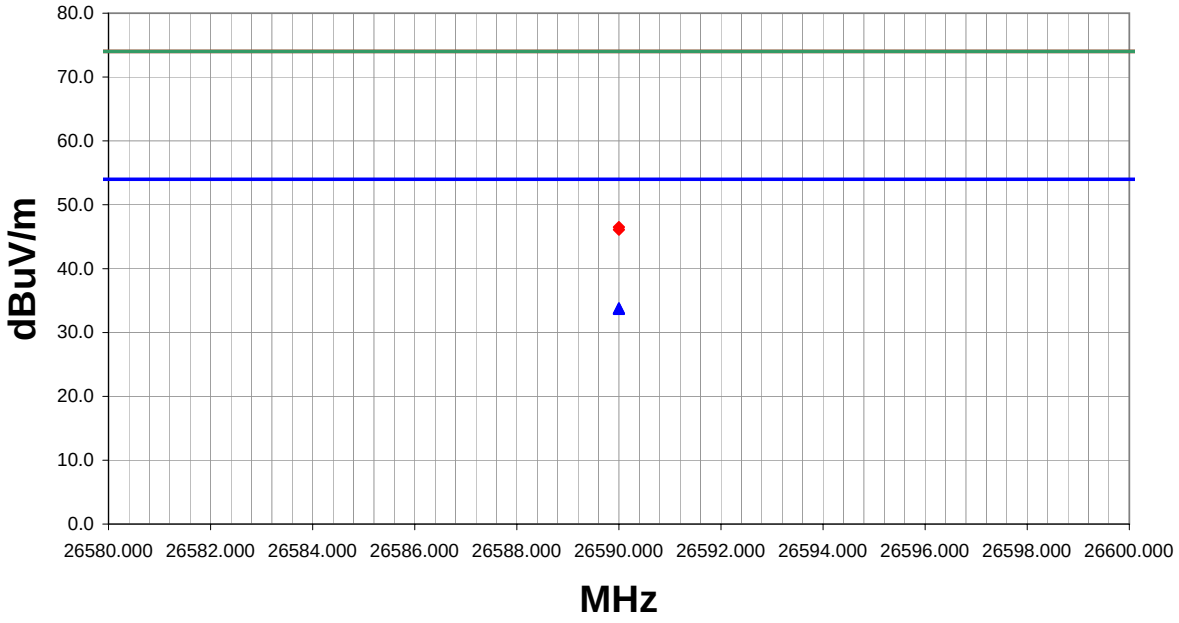
DEVIATIONS FROM TEST STANDARD

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

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	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.

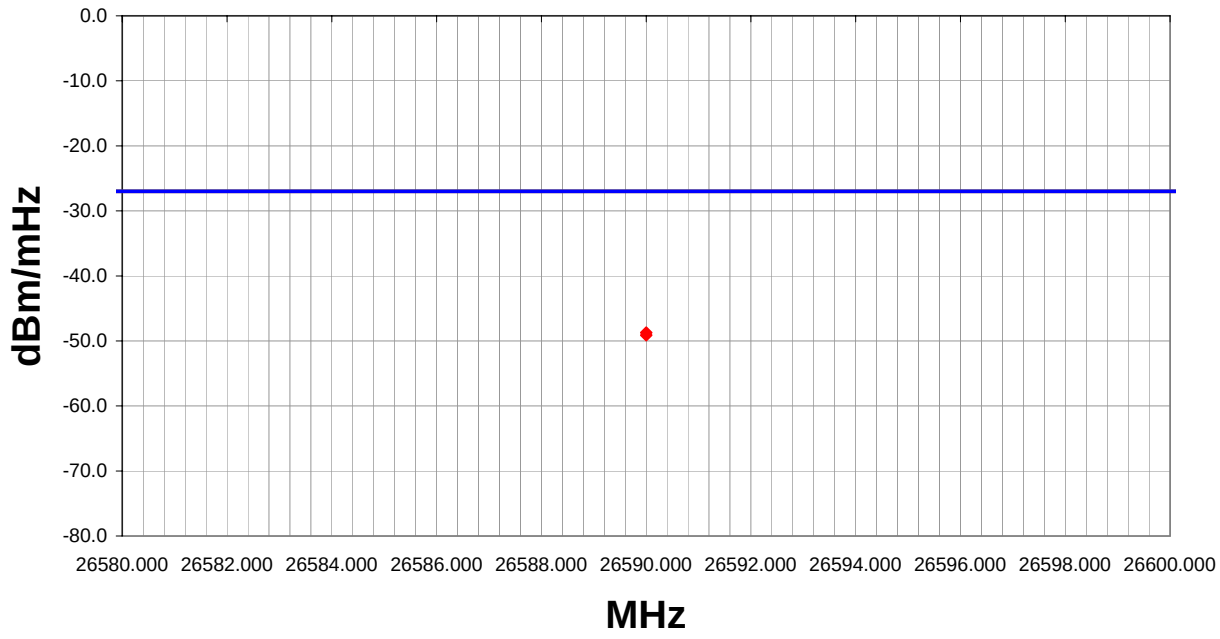
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	44

Other

Tested By: Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
26590.000			0.0	1.1			V-High Horr	PK		-48.7	-27.0	-21.7
26590.000			0.0	1.1			H-High Horr	PK		-49.1	-27.0	-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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

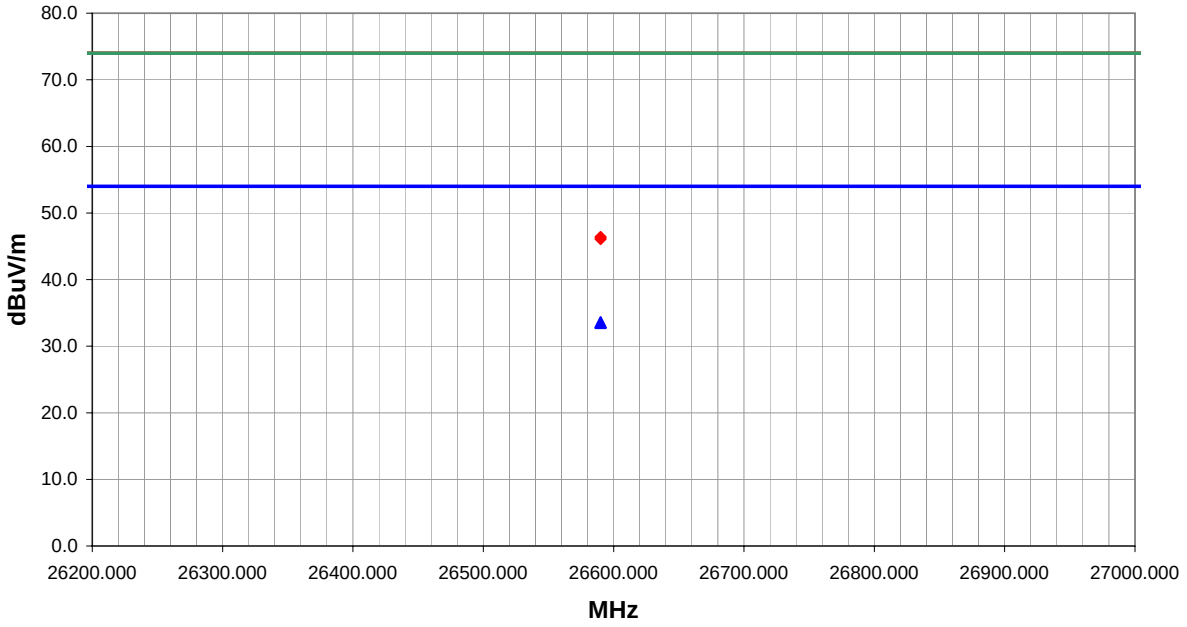
DEVIATIONS FROM TEST STANDARD

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

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	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.

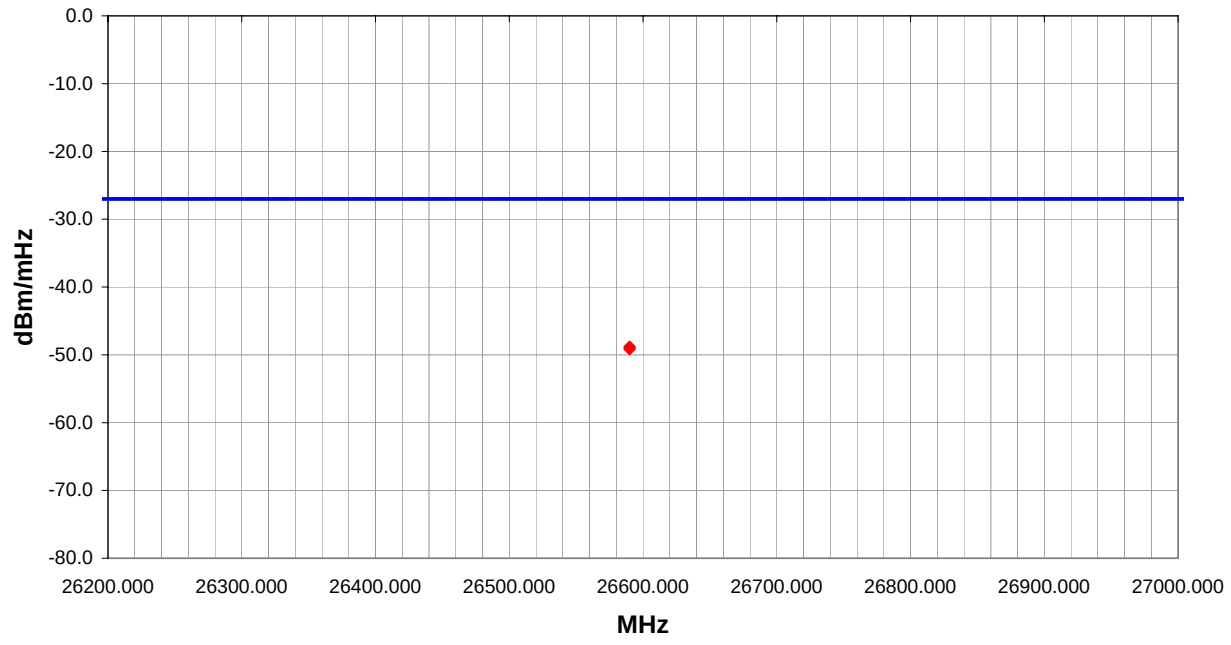
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	46

Other

Tested By: Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
26590.000			0.0	1.1			H-High Horr	PK		-48.8	-27.0	-21.8
26590.000			0.0	1.1			V-High Horr	PK		-49.1	-27.0	-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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

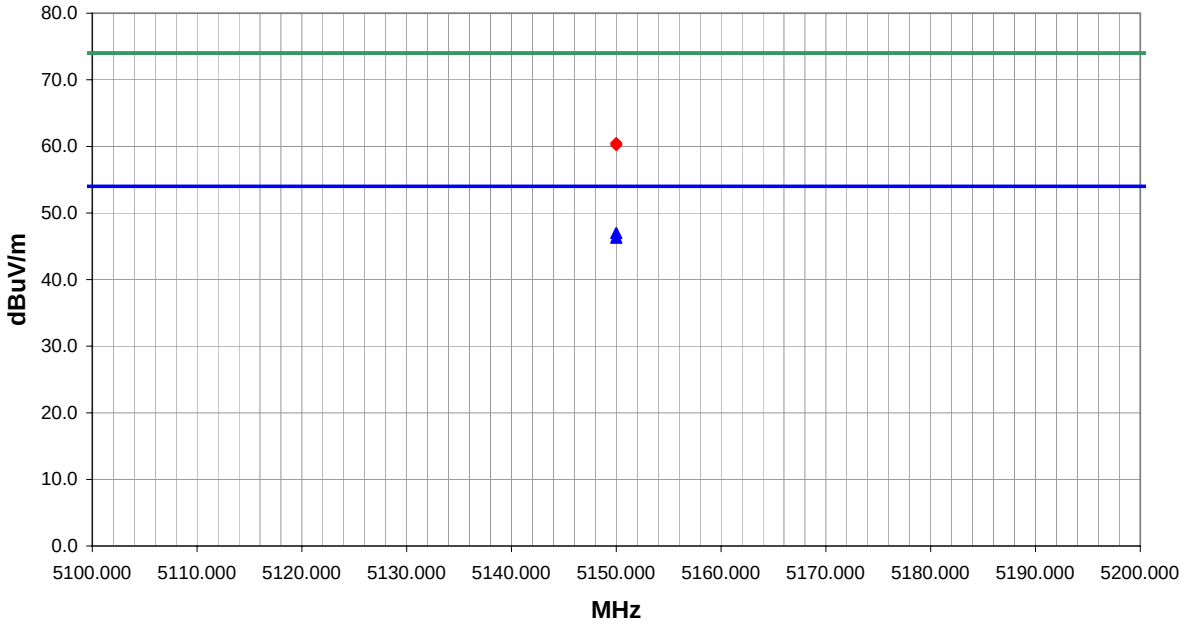
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	48

Other

Tested By: 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	21.2	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

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	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.

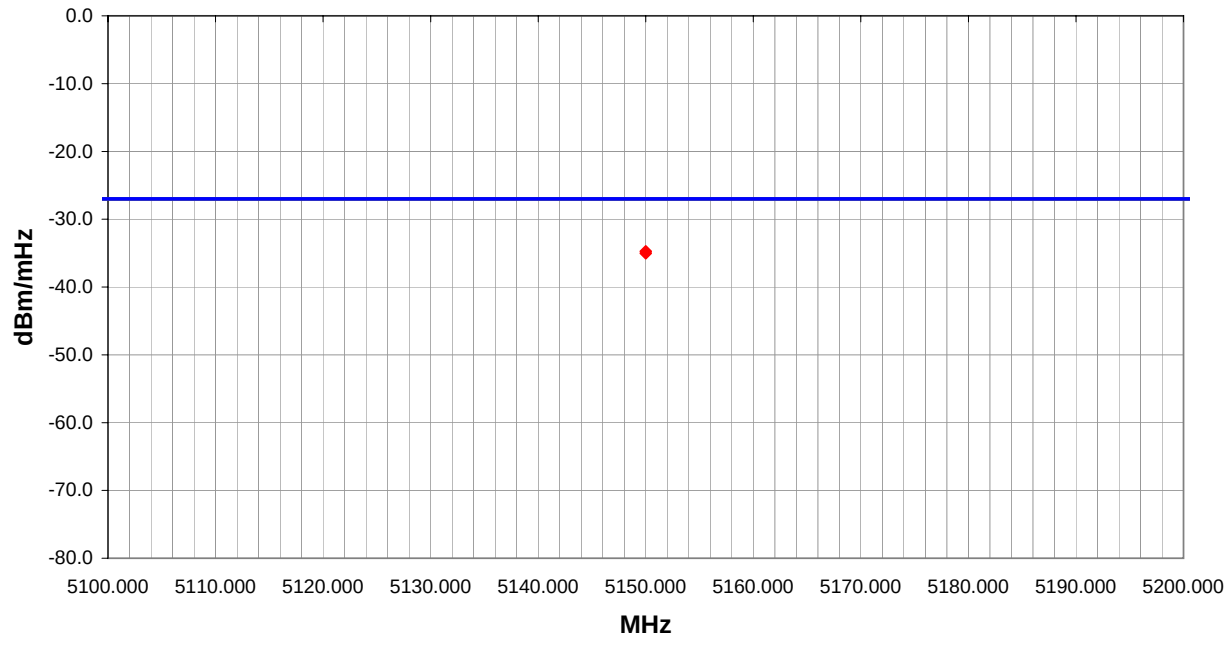
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	48

Other

Tested By: Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
5150.000			191.0	1.5			V-Horn	PK		-34.7	-27.0	-7.7
5150.000			191.0	1.5			H-Horn	PK		-35.0	-27.0	-8.0

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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

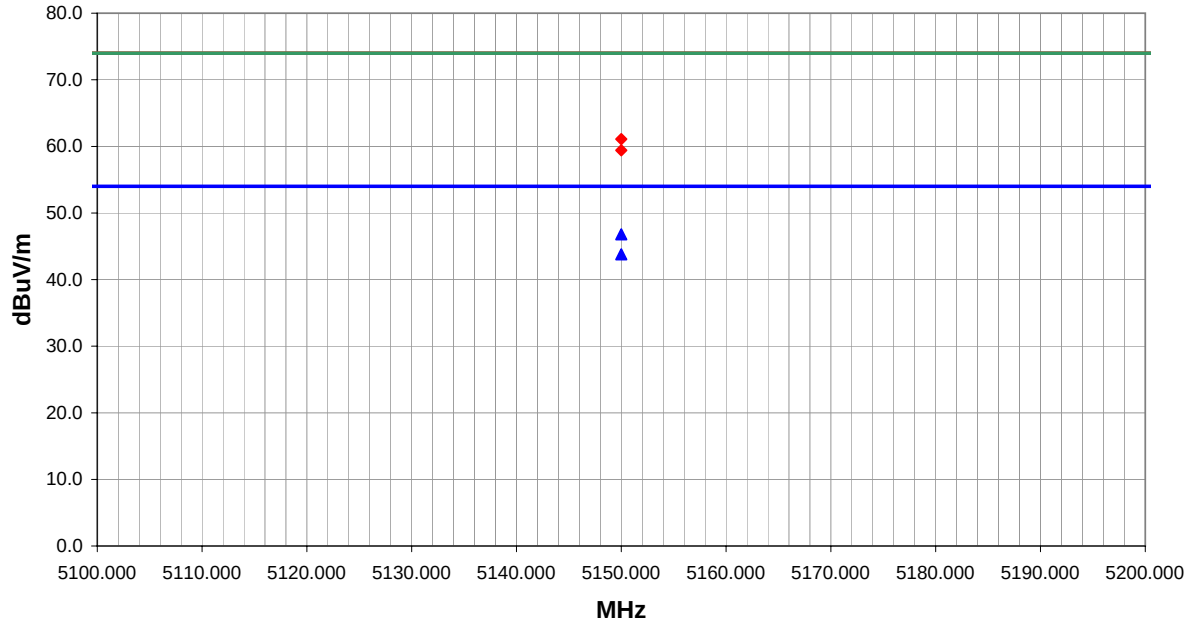
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	50

Other

Tested By: 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	21.0	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

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	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.

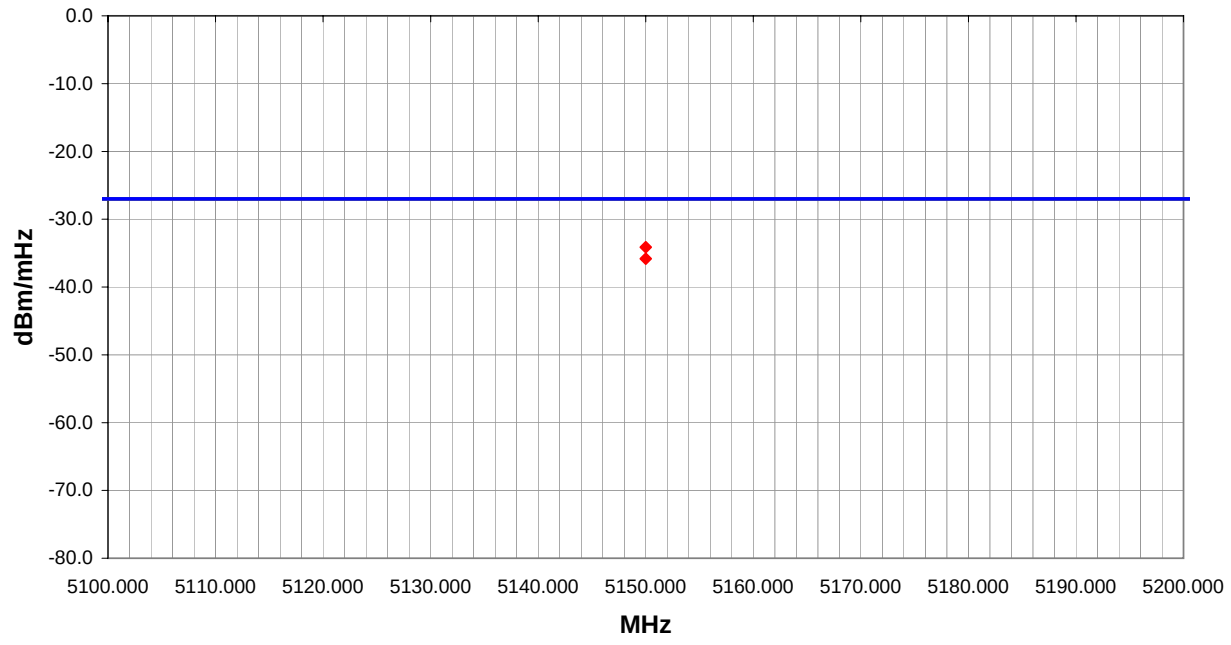
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	50

Other

Tested By: Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
5150.000			126.0	1.0			V-Horn	PK		-34.1	-27.0	-7.1
5150.000			360.0	1.0			H-Horn	PK		-35.8	-27.0	-8.8

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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

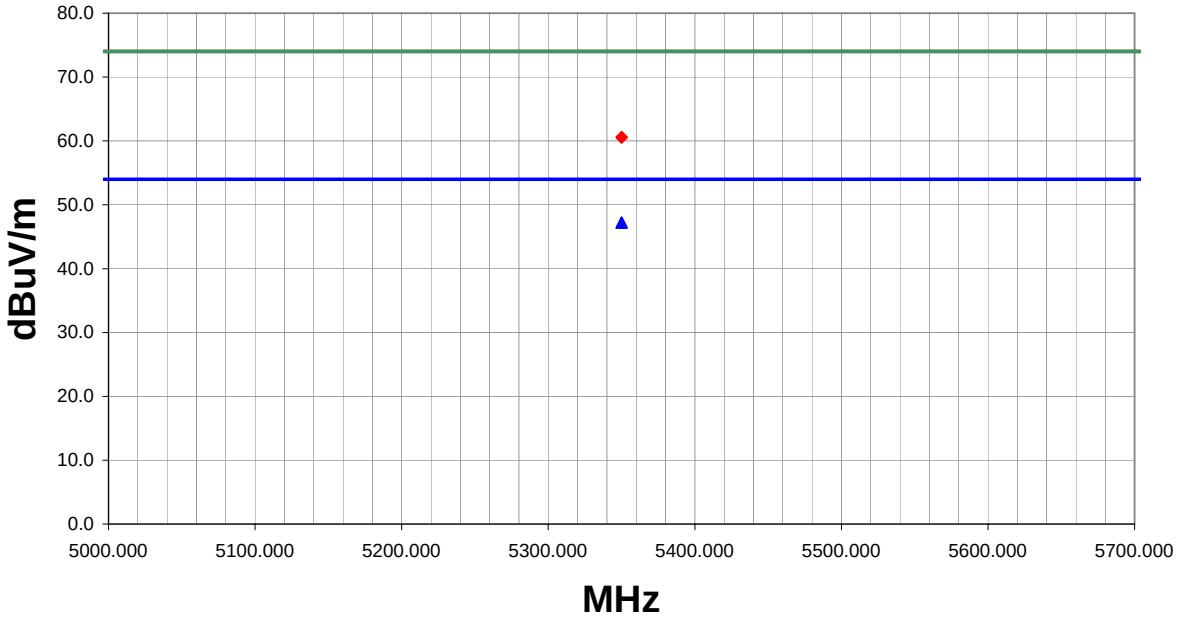
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	52

Other

Tested By: 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	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

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	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.

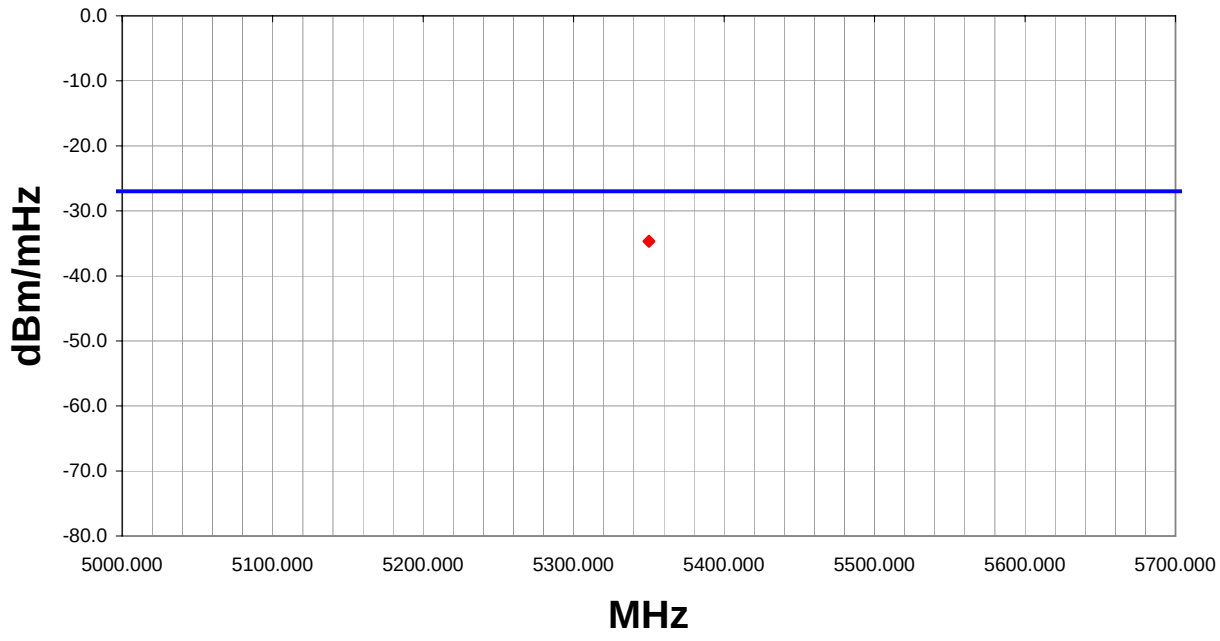
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	52

Other

Tested By: Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
5350.000			360.0	1.0			H-Horn	PK		-34.6	-27.0	-7.6
5350.000			118.0	1.0			V-Horn	PK		-34.7	-27.0	-7.7

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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

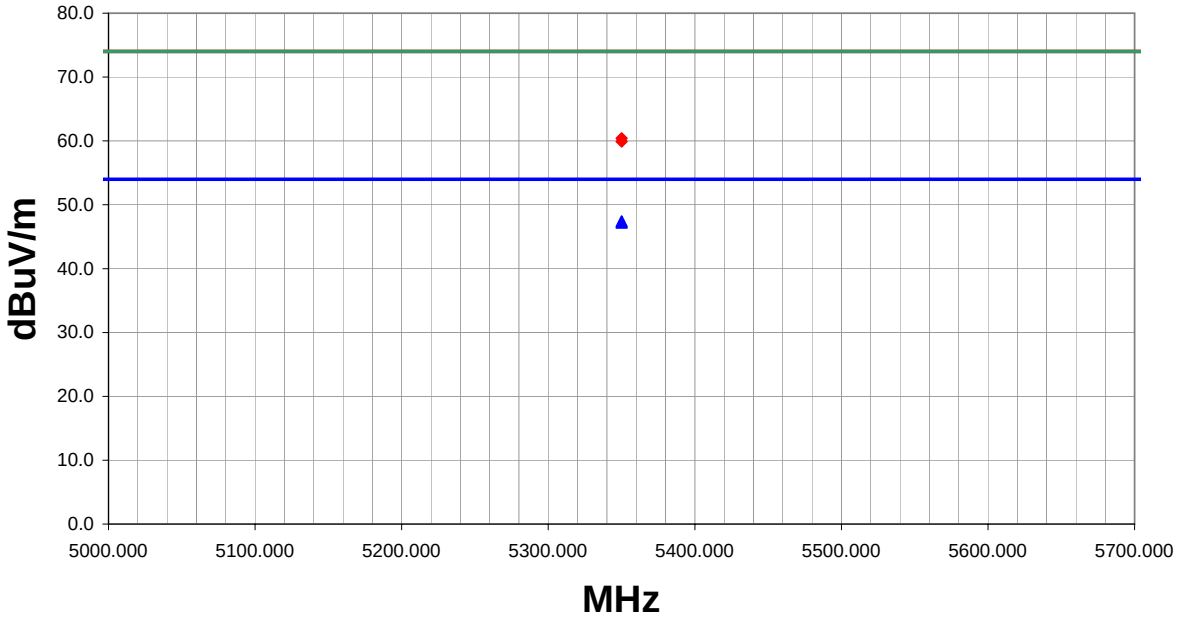
DEVIATIONS FROM TEST STANDARD

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

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	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.

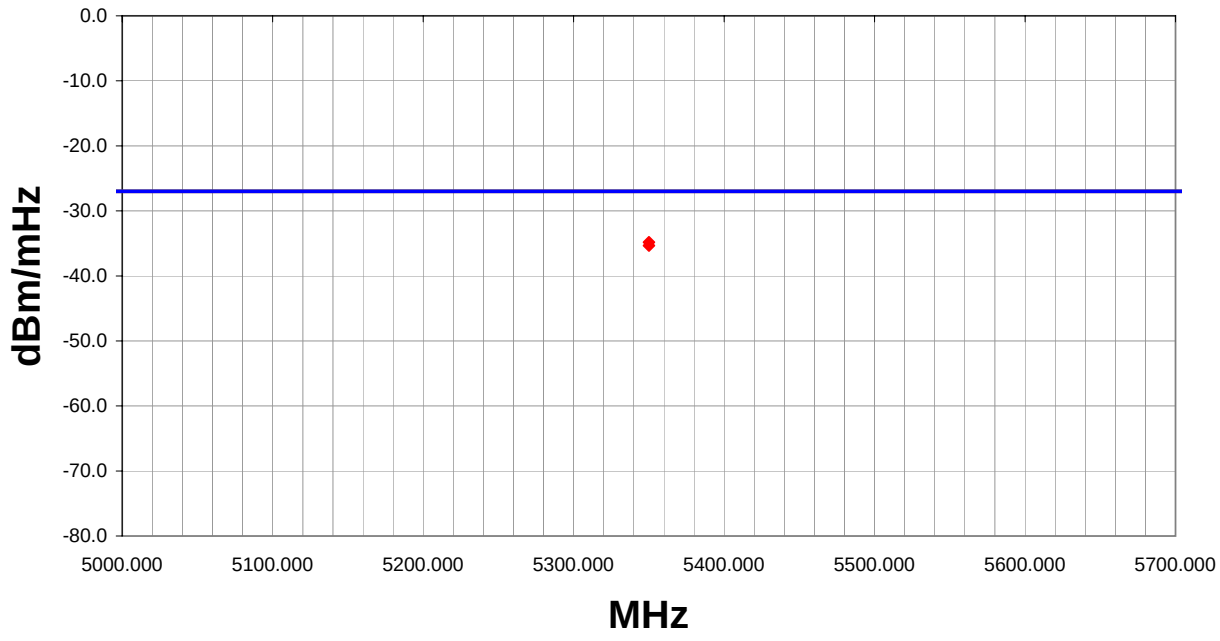
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	54

Other

Tested By: Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
5350.000			97.0	1.0			V-Horn	PK		-34.8	-27.0	-7.8
5350.000			0.0	1.0			H-Horn	PK		-35.3	-27.0	-8.3

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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

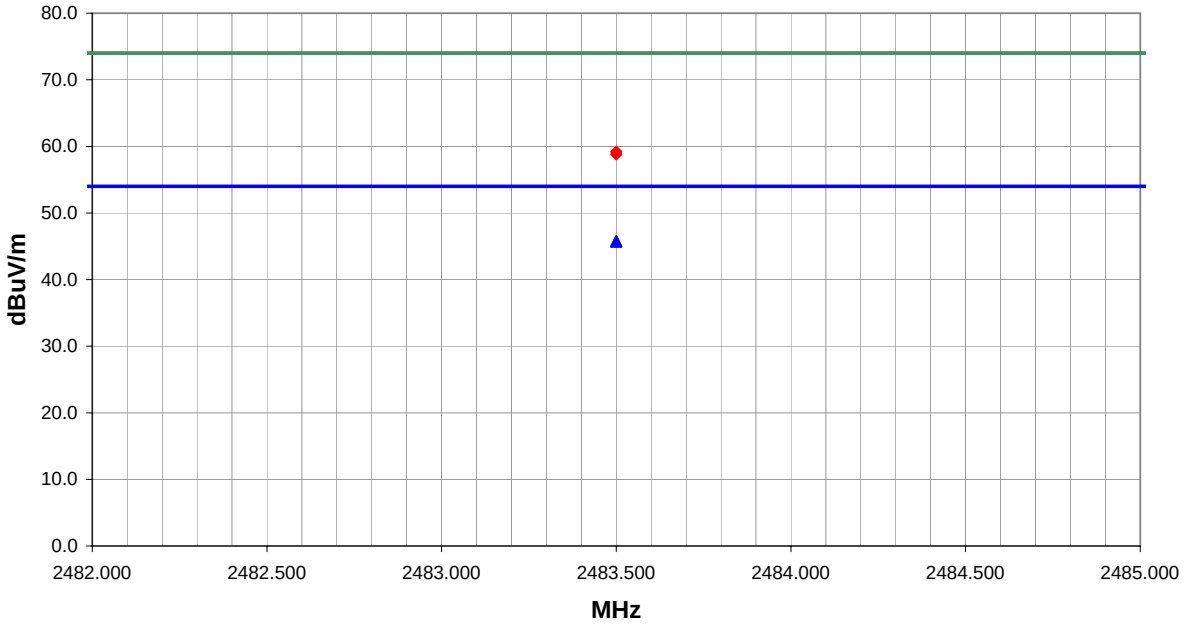
DEVIATIONS FROM TEST STANDARD

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

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	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.

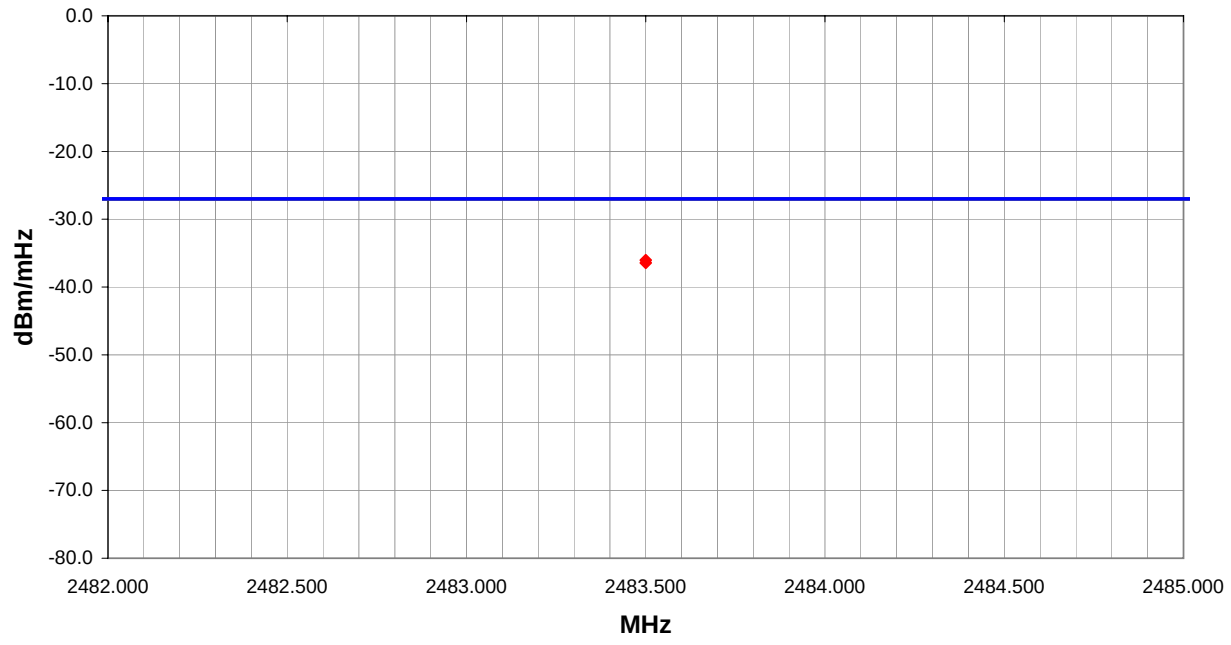
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	68

Other

Tested By: Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
2483.500			67.0	1.3			H-Horn	PK		-36.0	-27.0	-9.0
2483.500			332.0	1.2			V-Horn	PK		-36.4	-27.0	-9.4

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 15.407(b)(6) / FCC Part 15.205 / 15.209	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.

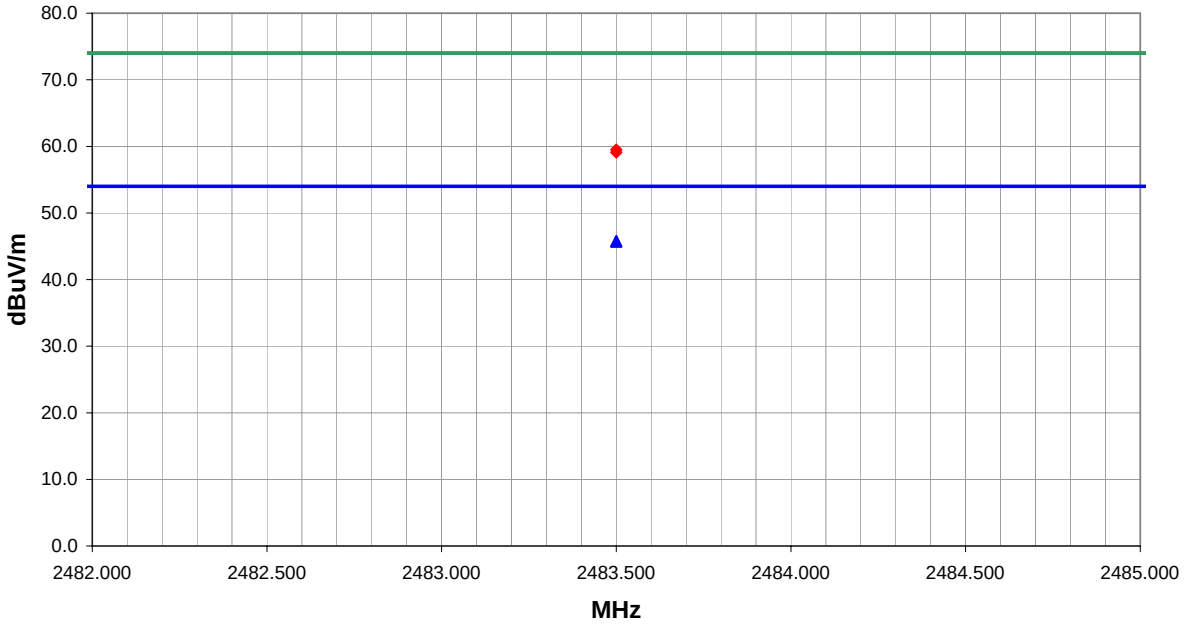
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	70

Other

Tested By: 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	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

Apparent Power 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 15.407(b)(1-4), Spurious Radiated Emissions	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.

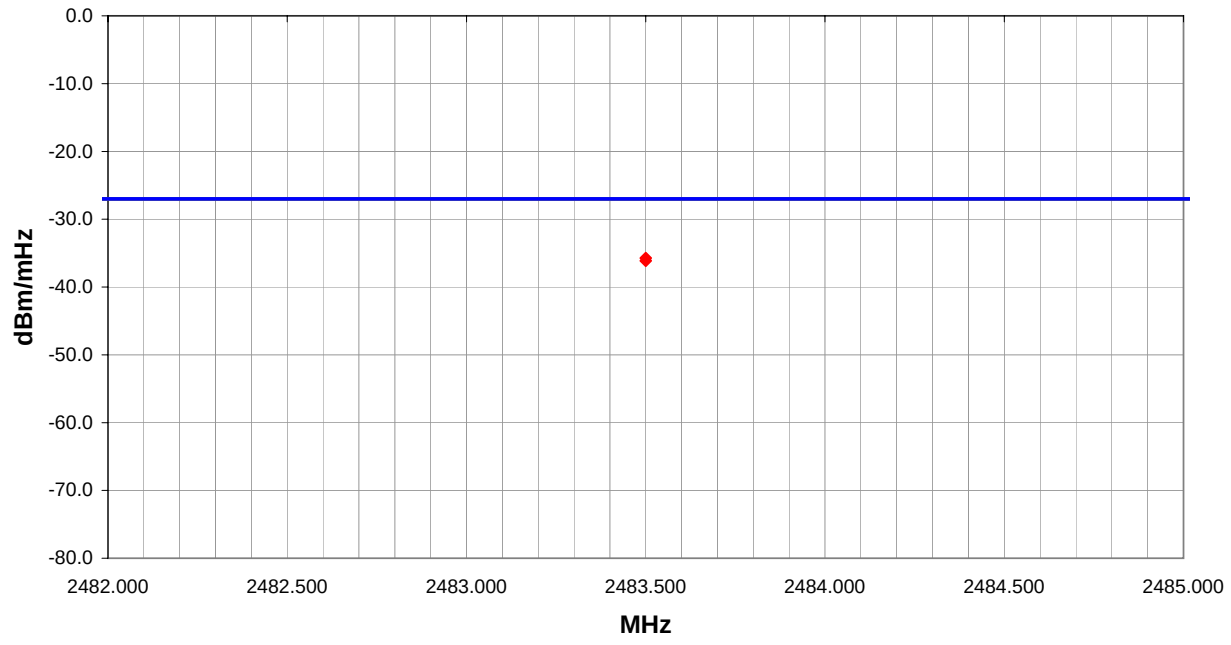
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	70

Other

Tested By: Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm/mHz)	Spec. Limit (dBm/mHz)	Compared to Spec. (dB)
2483.500			44.0	2.7			V-Horn	PK		-35.7	-27.0	-8.7
2483.500			50.0	1.6			H-Horn	PK		-36.1	-27.0	-9.1

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:	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.

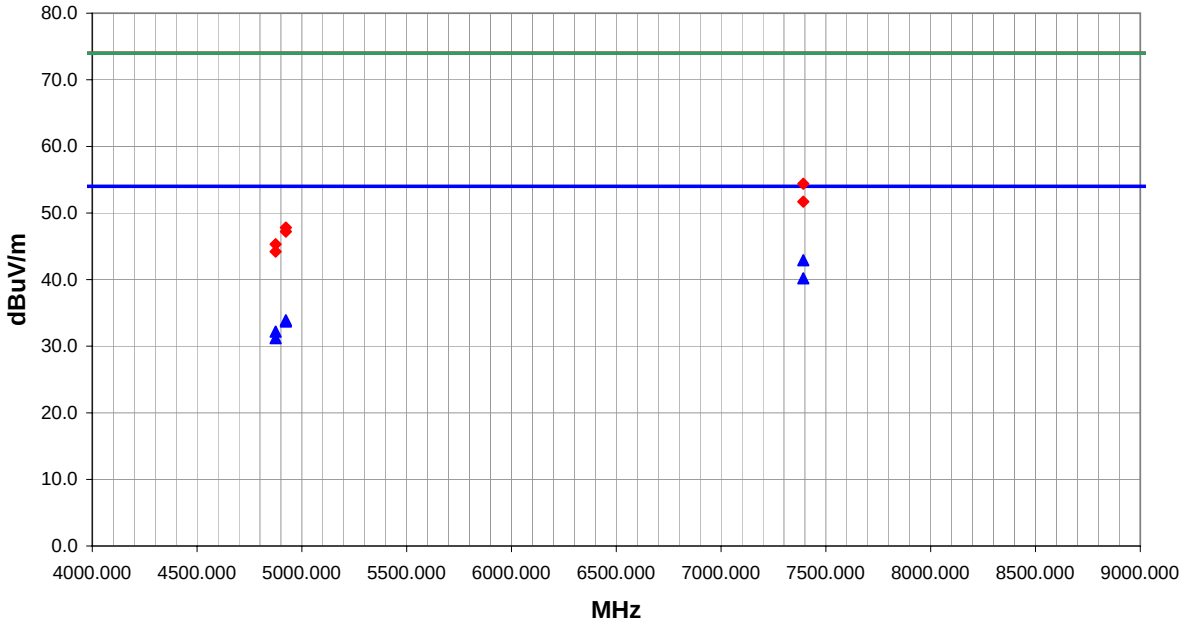
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	78

Other

Tested By: 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	33.2	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.

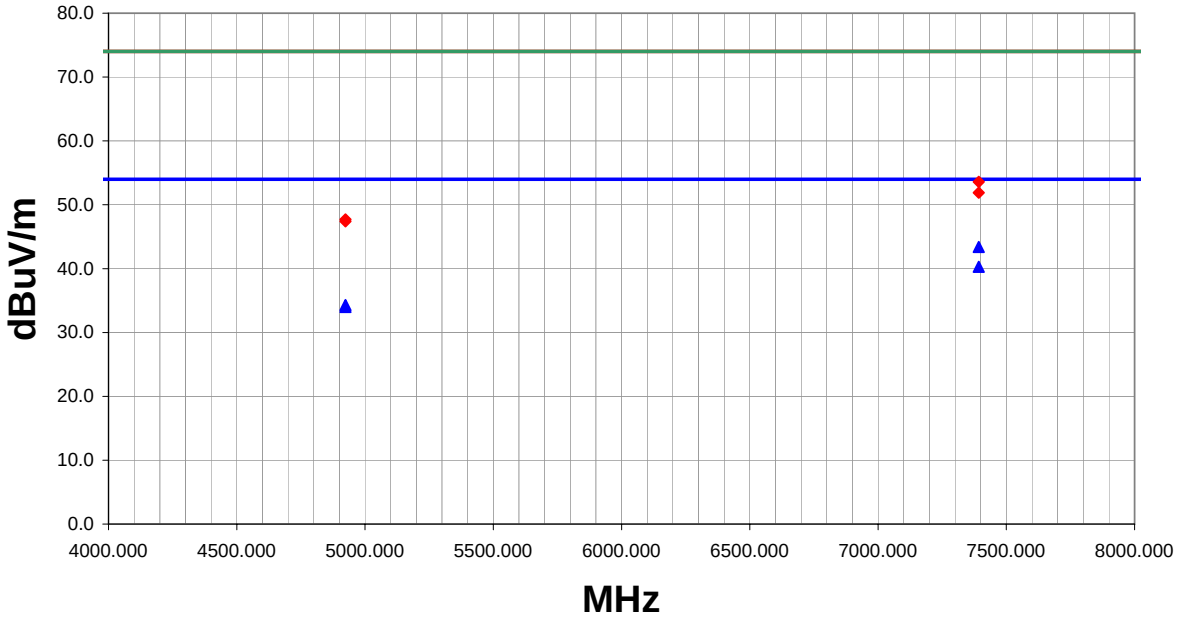
DEVIATIONS FROM TEST STANDARD

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.

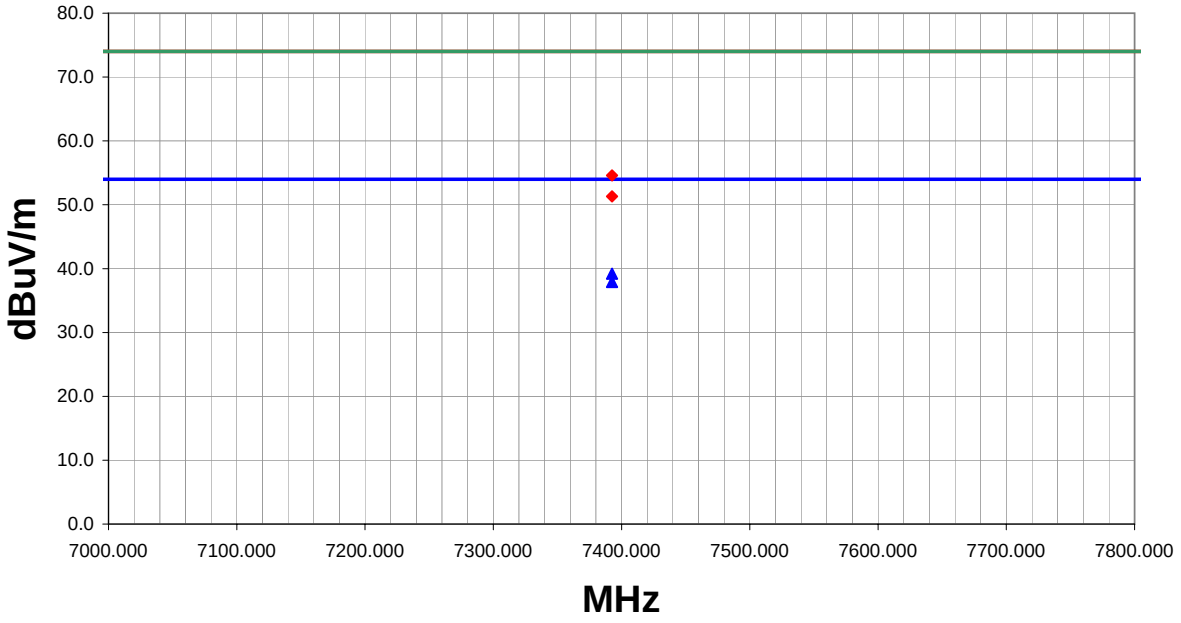
DEVIATIONS FROM TEST STANDARD

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.

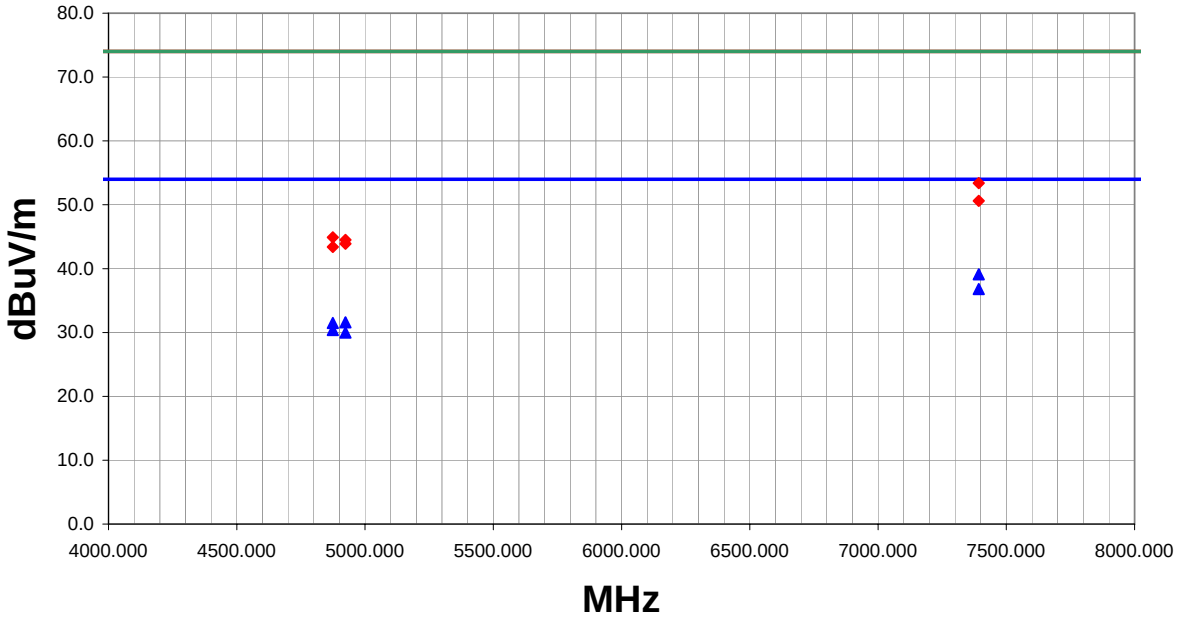
DEVIATIONS FROM TEST STANDARD

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.

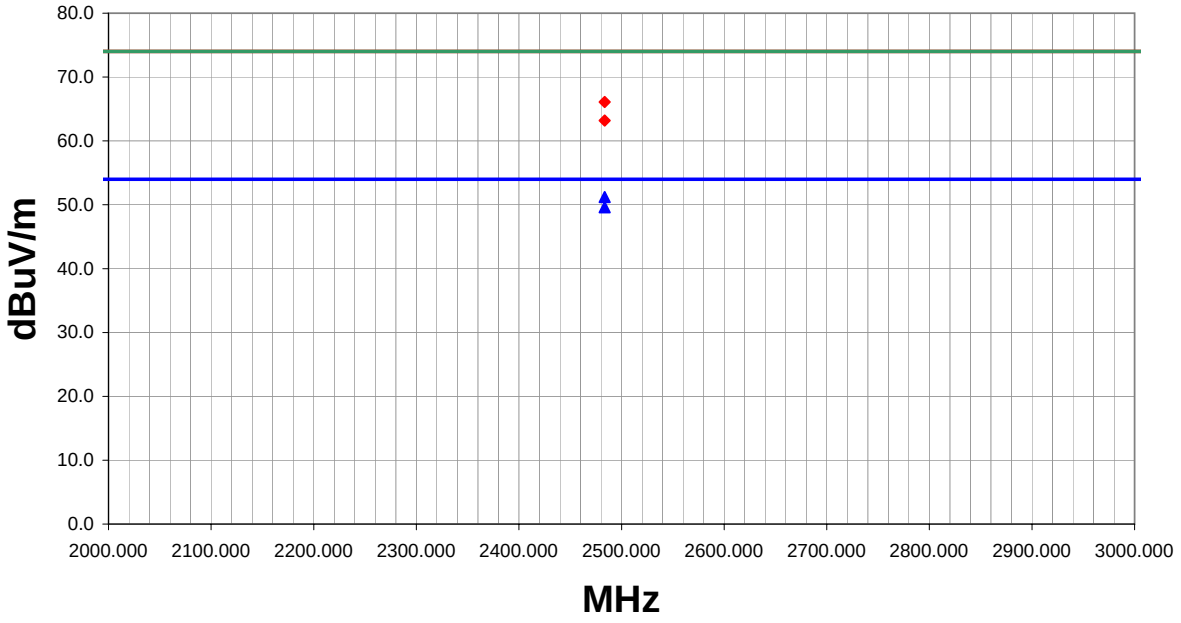
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	82

Other

Tested By: 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	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.

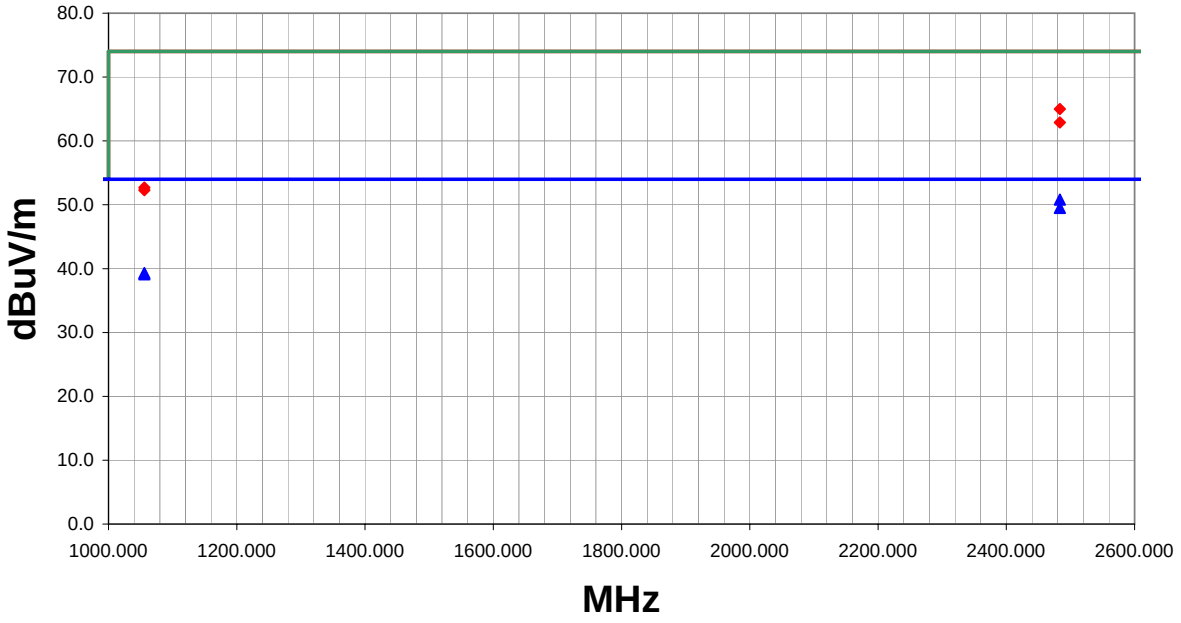
DEVIATIONS FROM TEST STANDARD

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.

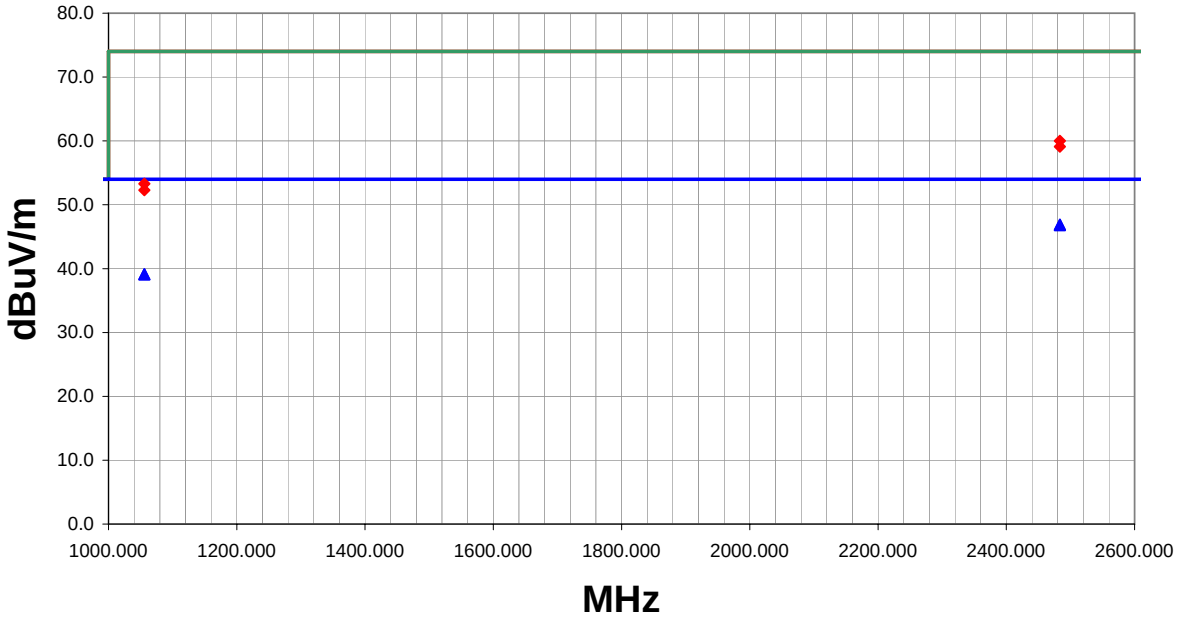
DEVIATIONS FROM TEST STANDARD

No deviations.

RESULTS	Run #
Pass	22

Other

Tested By:



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.

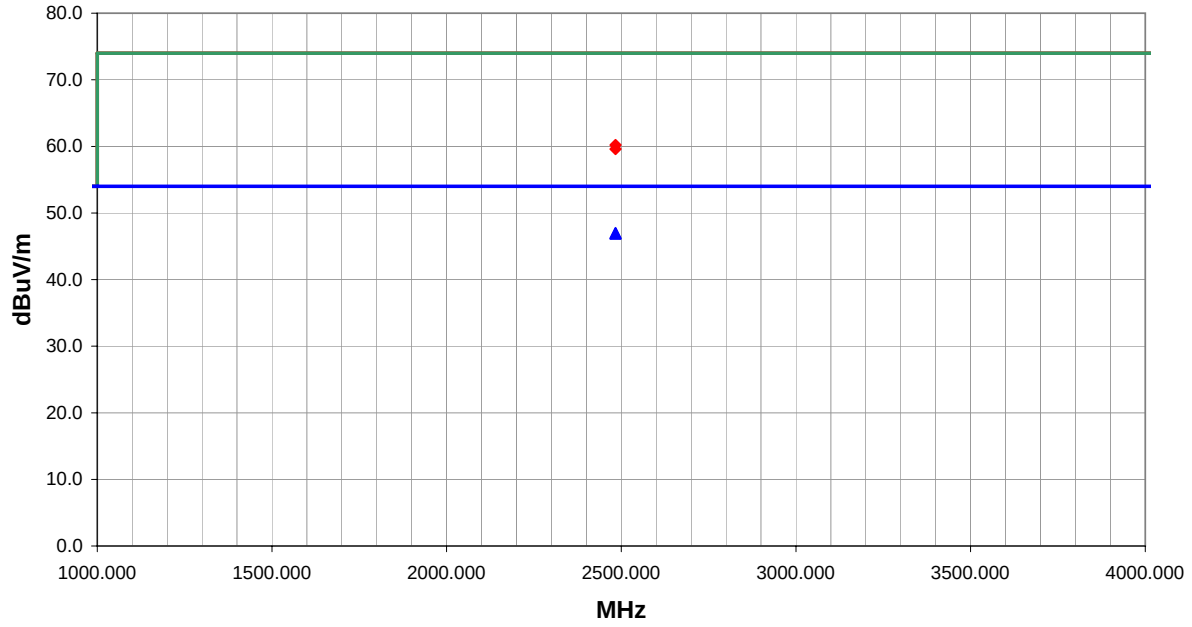
DEVIATIONS FROM TEST STANDARD

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