

Intermec Technologies Corporation

CK3x with DHIB

(x denotes a (alpha-numeric), n (numeric), or c (china))

Report No. INMC0479

Report Prepared By



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

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EMC Test Report

Certificate of Test

Last Date of Testing: September 04, 2008
Intermec Technologies Corporation
Model: CK3x with DHIB

Emissions			
Test Description	Specification	Test Method	Pass/Fail
Radiated Spurious Emissions	FCC 15.247 (DTS):2007	ANSI C63.4:2003 KDB No. 558074	Pass
Radiated Spurious Emissions	FCC 15.247 (FHSS):2007	ANSI C63.4:2003 DA 00-705:2000	Pass
Occupied Bandwidth	FCC 15.247 (DTS):2007	ANSI C63.4:2003 KDB No. 558074	Pass
Occupied Bandwidth	FCC 15.247 (FHSS):2007	ANSI C63.4:2003 DA 00-705:2000	Pass
Output Power	FCC 15.247 (DTS):2007	ANSI C63.4:2003 KDB No. 558074	Pass
Band Edge Compliance	FCC 15.247 (DTS):2007	ANSI C63.4:2003 KDB No. 558074	Pass
Spurious Conducted Emissions	FCC 15.247 (DTS):2007	ANSI C63.4:2003 KDB No. 558074	Pass
Power Spectral Density	FCC 15.247 (DTS):2007	ANSI C63.4:2003 KDB No. 558074	Pass
AC Powerline Conducted Emissions	FCC 15.207:2007	ANSI C63.4:2003	Pass

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(Site filing #2834D-1).

Approved By:



Don Fecteau, IS Manager



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

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

Revision Number	Description	Date	Page Number
00	None		

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



NVLAP: Northwest EMC, Inc. is accredited under the United States Department of Commerce, National Institute of Standards and Technology, and National Voluntary Laboratory Accreditation Program for satisfactory compliance with the requirements of ISO/IEC 17025 for Testing Laboratories. The NVLAP accreditation encompasses Electromagnetic Compatibility Testing in accordance with the European Union EMC Directive 2004/108/EC, and ANSI C63.4. Additionally, Northwest EMC is accredited by NVLAP to perform radio testing in accordance with the European Union R&TTE Directive 1999/5/EEC, the requirements of FCC, and the RSS radio standards for Industry Canada.



NVLAP LAB CODE 200629-0
 NVLAP LAB CODE 200630-0
 NVLAP LAB CODE 200676-0
 NVLAP LAB CODE 200761-0

Industry Canada: Accredited by NVLAP for performance of Industry Canada RSS and ICES testing. Our Open Area Test Sites and certification chambers comply with RSS-Gen, Issue 2 and have been filed with Industry Canada and accepted. Northwest EMC has been accredited by ANSI to ISO / IEC Guide 65 as a product certifier. We have been designated by NIST and recognized by Industry Canada as a Certification Body (CB) per the APEC Mutual Recognition Arrangement (MRA). This allows Northwest EMC to certify transmitters to Industry Canada technical requirements. (*Site Filing Numbers - Hillsboro: 2834D-1, 2834D-2, Sultan: 2834C-1, Irvine: 2834B-1, 2834B-2*)



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



TÜV Product Service: Included in TÜV Product Service Group's Listing of Recognized Laboratories. It qualifies in connection with the TÜV Certification after Recognition of Agent's Testing Program for the product categories and/or standards shown in TÜV's current Listing of CARAT Laboratories, available from TÜV. A certificate was issued to represent that this laboratory continues to meet TÜV's CARAT Program requirements. Certificate No. USA0604C.



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



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



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



VCCI: Accepted as an Associate Member to the VCCI, Acceptance No. 564. Conducted and radiated measurement facilities have been registered in accordance with Regulations for Voluntary Control Measures, Article 8. (*Registration Numbers. - Hillsboro: C-1071, R-1025, C-2687, T-289, and R-2318, Irvine: R-1943, C-2766, and T-298, Sultan: R-871, C-1784, and T-294.*)



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 (US0017). License No.SL2-IN-E-1017.



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



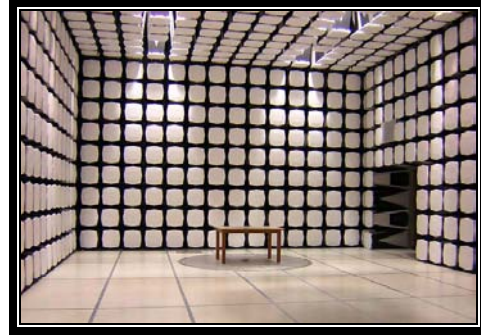
MIC: Northwest EMC, Inc is a CAB designated by MRA partners and recognized by Korea. (*Assigned Lab Numbers: Hillsboro: US0017, Irvine: US0158, Sultan: US0157*)



SCOPE

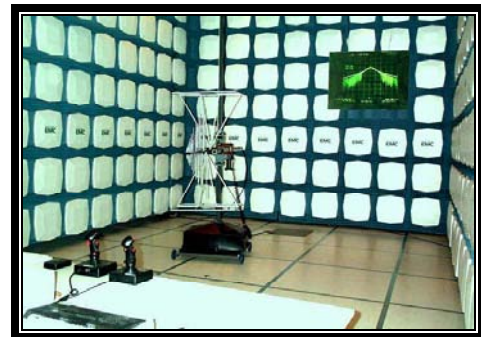
For details on the Scopes of our Accreditations, please visit:

<http://www.nwemc.com/accreditations/>



**California – Orange County Facility
Labs OC01 – OC13**

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



**Oregon – Evergreen Facility
Labs EV01 – EV11**

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



**Washington – Sultan Facility
Labs SU01 – SU07**

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

Party Requesting the Test

Company Name:	Intermec Technologies Corporation
Address:	6001 36th Avenue West
City, State, Zip:	Everett, WA 98203-1264
Test Requested By:	Sean MacKellar
Model:	CK3x with DHIB
First Date of Test:	August 20, 2008
Last Date of Test:	September 4, 2008
Receipt Date of Samples:	August 20, 2008
Equipment Design Stage:	Preproduction
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):

Wistron 802.11b/g-Bluetooth radio (DHIB) in CK3

Testing Objective:

The Wistron 802.11b/g - Bluetooth radio module with EDR (DHIB) will be installed in a small Intermec handheld device, the CK3. Only one radio can transmit at a time. Intermec wants a limited modular approval. The DHIB will not be collocated with any other radio in the CK3. The Wistron radio is seeking TCB certification under 15.247.

Client Supplied Information:

CK3x with DHIB (x denotes a (alpha-numeric), n (numeric), or c (china)) is needed for other global certification Intermec Technologies Corporation is going after, due to the fact that we must have distinct model numbers CK3a, CK3n, and CK3c for this product. These reports help gain one certificate for each of these models.

CONFIGURATION 1 INMC0479

Software/Firmware Running during test	
Description	Version
FCC Test Utility	None

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Radio	Intermec Technologies Corporation	DHIB	None
Radio - Aux	Intermec Technologies Corporation	DHIB	None
Handheld host	Intermec Technologies Corporation	CK3x	12410858052

CONFIGURATION 2 INMC0479

Software/Firmware Running during test	
Description	Version
FCC Test Utility	None

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Radio	Intermec Technologies Corporation	DHIB	None
Radio - Aux	Intermec Technologies Corporation	DHIB	None
Handheld host	Intermec Technologies Corporation	CK3x	12410858052
Dock	Intermec Technologies Corporation	CK3 Desktop Dock	15160800034
Power Adapter	Intermec Technologies Corporation	AE16	None

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Serial	Yes	1.6m	No	Dock	Unterminated
USB	Yes	1.0m	No	Dock	Unterminated
Power	PA	1.8m	PA (Yes)	Dock	Power Adapter
AC Power	No	1.8m	No	Power Adapter	AC Mains
USB	Yes	3.0m	No	Dock	Unterminated

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

CONFIGURATION 3 INMC0479

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Radio	Intermec Technologies Corporation	DHIB	None

Peripherals in test setup boundary			
Description	Manufacturer	Model/Part Number	Serial Number
Handheld host	Intermec Technologies Corporation	CK3	12110858075

CONFIGURATION 4 INMC0479

Software/Firmware Running during test	
Description	Version
FCC Test Utility	None

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Radio	Intermec Technologies Corporation	DHIB	None
Handheld Host	Intermec Technologies Corporation	CK3x	12410858065

CONFIGURATION 5 INMC0479

Software/Firmware Running during test	
Description	Version
FCC Test Utility	

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
Radio	Intermec Technologies Corporation	DHIB	None
Radio - Aux	Intermec Technologies Corporation	DHIB	None
Handheld host	Intermec Technologies Corporation	CK3x	12410858052
Power Adapter	Intermec Technologies Corporation	AE16	None
Dock	Intermec Technologies Corporation	CK3 Desktop Dock	Proto B: 198

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Serial	Yes	1.6m	No	Dock	Unterminated
USB	Yes	1.0m	No	Dock	Unterminated
Power	PA	1.8m	PA (Yes)	Dock	Power Adapter
AC Power	No	1.8m	No	Power Adapter	AC Mains
USB	Yes	3.0m	No	Dock	Unterminated

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

Equipment modifications					
Item	Date	Test	Modification	Note	Disposition of EUT
1	8/20/2008	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	8/28/2008	Output Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
3	8/28/2008	Peak Output Power	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
4	8/29/2008	Occupied Bandwidth	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
5	8/29/2008	Power Spectral Density	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
6	9/2/2008	Band Edge Compliance	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
7	9/2/2008	Spurious Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
8	9/2/2008	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
9	9/4/2008	AC Powerline Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was complete.

Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

802.11(b), 1 Mbps
802.11(b), 11 Mbps
802.11(g), 6 Mbps
802.11(g), 36 Mbps
802.11(g), 54 Mbps

CHANNELS TESTED

Low channel, 2412 MHz
Mid channel, 2437 MHz
High channel, 2462 MHz

POWER SETTINGS INVESTIGATED

Battery, 3.7 VDC

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	25 GHz
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SAMPLE CALCULATIONS

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

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4446A	AAT	12/7/2007	13
Pre-Amplifier	Miteq	AM-1616-1000	AOL	5/19/2008	13
Antenna, Biconilog	EMCO	3141	AXE	1/15/2008	24
EV01 Cables		Bilog Cables	EVA	5/19/2008	13
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	5/19/2008	13
Antenna, Horn	EMCO	3115	AHC	8/12/2008	24
EV01 Cables		Double Ridge Horn Cables	EVB	5/19/2008	13
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	6/30/2008	13
Antenna, Horn	ETS	3160-07	AHU	NCR	0
EV01 Cables		Standard Gain Horns Cables	EVF	10/23/2007	13
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVD	6/30/2008	13
Antenna, Horn	ETS	3160-08	AHV	NCR	0
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	7/25/2007	16
Antenna, Horn	EMCO	3160-09	AHG	NCR	0
EV01 Cables		18-26GHz Standard Gain Horn Cable	EVD	7/25/2007	16

MEASUREMENT BANDWIDTHS

	Frequency Range	Peak Data	Quasi-Peak Data	Average Data
	(MHz)	(kHz)	(kHz)	(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.

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axes, and adjusting measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.4:2003). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

EUT: CK3x with DHIB	Work Order: INMC0479
Serial Number: None	Date: 08/20/08
Customer: Intermec Technologies Corporation	Temperature: 54 °C
Attendees: Sean Mackellar	Humidity: 55%
Project: None	Barometric Pres.: 1006.9mb
Tested by: Rod Peloquin	Power: Battery
	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2007	ANSI C63.4:2003, KDB No. 558074

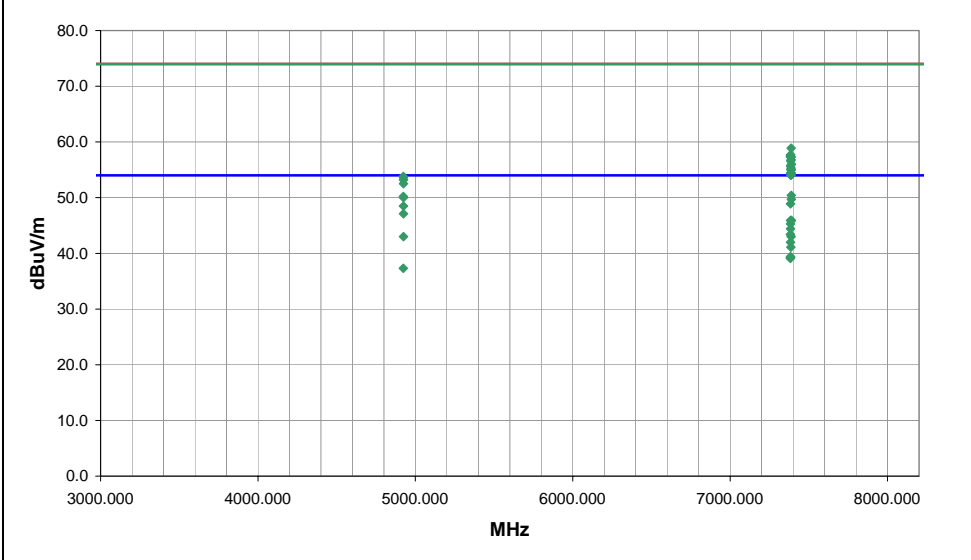
TEST PARAMETERS
Antenna Height(s) (m) 1 - 4 Test Distance (m) 3

COMMENTS
CK3 SN:12410858052

EUT OPERATING MODES
Continuous Tx, 802.11(b) at 1Mbit, High channel Antenna 1

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	4	 Signature
Configuration #	1	
Results	Pass	



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
7388.650	34.7	15.7	17.0	1.1	3.0	0.0	V-Horn	AV	0.0	50.4	54.0	-3.6	1 Mbps, EUT horizontal
4924.023	40.1	9.9	220.0	1.2	3.0	0.0	H-Horn	AV	0.0	50.0	54.0	-4.0	1 Mbps, EUT vertical
7388.630	34.0	15.7	190.0	1.0	3.0	0.0	V-Horn	AV	0.0	49.7	54.0	-4.3	1 Mbps, EUT vertical
7383.600	33.2	15.7	206.0	1.6	3.0	0.0	H-Horn	AV	0.0	48.9	54.0	-5.1	1 Mbps, EUT vertical
4923.995	38.6	9.9	219.0	1.0	3.0	0.0	V-Horn	AV	0.0	48.5	54.0	-5.5	1 Mbps, EUT horizontal, Ant 2
4923.957	37.2	9.9	221.0	1.0	3.0	0.0	V-Horn	AV	0.0	47.1	54.0	-6.9	1 Mbps, EUT horizontal
7383.310	30.2	15.7	111.0	1.2	3.0	0.0	V-Horn	AV	0.0	45.9	54.0	-8.1	1 Mbps, EUT horizontal, Ant 2
7388.760	30.2	15.7	121.0	1.1	3.0	0.0	H-Horn	AV	0.0	45.9	54.0	-8.1	1 Mbps, EUT horizontal
7388.600	30.3	15.6	258.0	1.5	3.0	0.0	H-Horn	AV	0.0	45.9	54.0	-8.1	1 Mbps, EUT on side
7383.230	29.6	15.7	312.0	1.0	3.0	0.0	V-Horn	AV	0.0	45.3	54.0	-8.7	1 Mbps, EUT on side
7383.360	28.7	15.7	20.0	1.3	3.0	0.0	V-Horn	AV	0.0	44.4	54.0	-9.6	11 Mbps, EUT horizontal
7383.020	27.7	15.7	203.0	1.7	3.0	0.0	H-Horn	AV	0.0	43.4	54.0	-10.6	1 Mbps, EUT vertical, Ant 2
4923.985	33.1	9.9	133.0	1.0	3.0	0.0	H-Horn	AV	0.0	43.0	54.0	-11.0	1 Mbps, EUT vertical, Ant 2
7387.550	27.3	15.7	199.0	1.3	3.0	0.0	H-Horn	AV	0.0	43.0	54.0	-11.0	11 Mbps, EUT vertical
7383.810	26.3	15.7	20.0	1.3	3.0	0.0	V-Horn	AV	0.0	42.0	54.0	-12.0	6 Mbps, EUT horizontal
7385.480	25.4	15.7	198.0	1.3	3.0	0.0	H-Horn	AV	0.0	41.1	54.0	-12.9	6 Mbps, EUT vertical
7383.780	23.8	15.6	20.0	1.3	3.0	0.0	V-Horn	AV	0.0	39.4	54.0	-14.6	36 Mbps, EUT horizontal
7382.940	23.6	15.7	20.0	1.3	3.0	0.0	V-Horn	AV	0.0	39.3	54.0	-14.7	54 Mbps, EUT horizontal
7384.550	23.6	15.7	198.0	1.3	3.0	0.0	H-Horn	AV	0.0	39.3	54.0	-14.7	36 Mbps, EUT vertical
7382.950	23.5	15.6	198.0	1.3	3.0	0.0	H-Horn	AV	0.0	39.1	54.0	-14.9	54 Mbps, EUT vertical
7387.540	43.2	15.7	20.0	1.3	3.0	0.0	V-Horn	PK	0.0	58.9	74.0	-15.1	11 Mbps, EUT horizontal
7385.080	42.1	15.6	20.0	1.3	3.0	0.0	V-Horn	PK	0.0	57.7	74.0	-16.3	6 Mbps, EUT horizontal
7382.350	41.9	15.7	17.0	1.1	3.0	0.0	V-Horn	PK	0.0	57.6	74.0	-16.4	1 Mbps, EUT horizontal
4923.600	27.4	9.9	227.0	1.1	3.0	0.0	H-Horn	AV	0.0	37.3	54.0	-16.7	11 Mbps, EUT vertical
7383.080	41.6	15.7	20.0	1.3	3.0	0.0	V-Horn	PK	0.0	57.3	74.0	-16.7	36 Mbps, EUT horizontal
7388.710	41.6	15.7	190.0	1.0	3.0	0.0	V-Horn	PK	0.0	57.3	74.0	-16.7	1 Mbps, EUT vertical
7387.750	41.1	15.7	199.0	1.3	3.0	0.0	H-Horn	PK	0.0	56.8	74.0	-17.2	11 Mbps, EUT vertical
7384.360	40.9	15.7	206.0	1.6	3.0	0.0	H-Horn	PK	0.0	56.6	74.0	-17.4	1 Mbps, EUT vertical
7389.910	40.3	15.7	111.0	1.2	3.0	0.0	V-Horn	PK	0.0	56.0	74.0	-18.0	1 Mbps, EUT horizontal, Ant 2
7383.200	40.0	15.7	258.0	1.5	3.0	0.0	H-Horn	PK	0.0	55.7	74.0	-18.3	1 Mbps, EUT on side
7387.100	39.6	15.7	121.0	1.1	3.0	0.0	H-Horn	PK	0.0	55.3	74.0	-18.7	1 Mbps, EUT horizontal
7385.550	39.3	15.7	198.0	1.3	3.0	0.0	H-Horn	PK	0.0	55.0	74.0	-19.0	6 Mbps, EUT vertical
7389.130	39.3	15.7	312.0	1.0	3.0	0.0	V-Horn	PK	0.0	55.0	74.0	-19.0	1 Mbps, EUT on side
7384.120	38.7	15.7	203.0	1.7	3.0	0.0	H-Horn	PK	0.0	54.4	74.0	-19.6	1 Mbps, EUT vertical, Ant 2
7388.340	38.7	15.7	20.0	1.3	3.0	0.0	V-Horn	PK	0.0	54.4	74.0	-19.6	54 Mbps, EUT horizontal
7387.900	38.4	15.7	198.0	1.3	3.0	0.0	H-Horn	PK	0.0	54.1	74.0	-19.9	54 Mbps, EUT vertical
7385.480	38.3	15.7	198.0	1.3	3.0	0.0	H-Horn	PK	0.0	54.0	74.0	-20.0	36 Mbps, EUT vertical
4923.893	43.9	9.9	220.0	1.2	3.0	0.0	H-Horn	PK	0.0	53.8	74.0	-20.2	1 Mbps, EUT vertical
4924.050	43.7	9.9	227.0	1.1	3.0	0.0	H-Horn	PK	0.0	53.6	74.0	-20.4	11 Mbps, EUT vertical
4924.090	43.3	9.9	219.0	1.0	3.0	0.0	V-Horn	PK	0.0	53.2	74.0	-20.8	1 Mbps, EUT horizontal, Ant 2
4923.993	42.6	9.9	221.0	1.0	3.0	0.0	V-Horn	PK	0.0	52.5	74.0	-21.5	1 Mbps, EUT horizontal
4923.900	40.3	9.9	133.0	1.0	3.0	0.0	H-Horn	PK	0.0	50.2	74.0	-23.8	1 Mbps, EUT vertical, Ant 2

EUT: CK3x with DHIB	Work Order: INMC0479
Serial Number: None	Date: 08/20/08
Customer: Intermec Technologies Corporation	Temperature: 54 °C
Attendees: Sean Mackellar	Humidity: 55%
Project: None	Barometric Pres.: 1006.9mb
Tested by: Rod Peloquin	Power: Battery
	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2007	ANSI C63.4:2003, KDB No. 558074

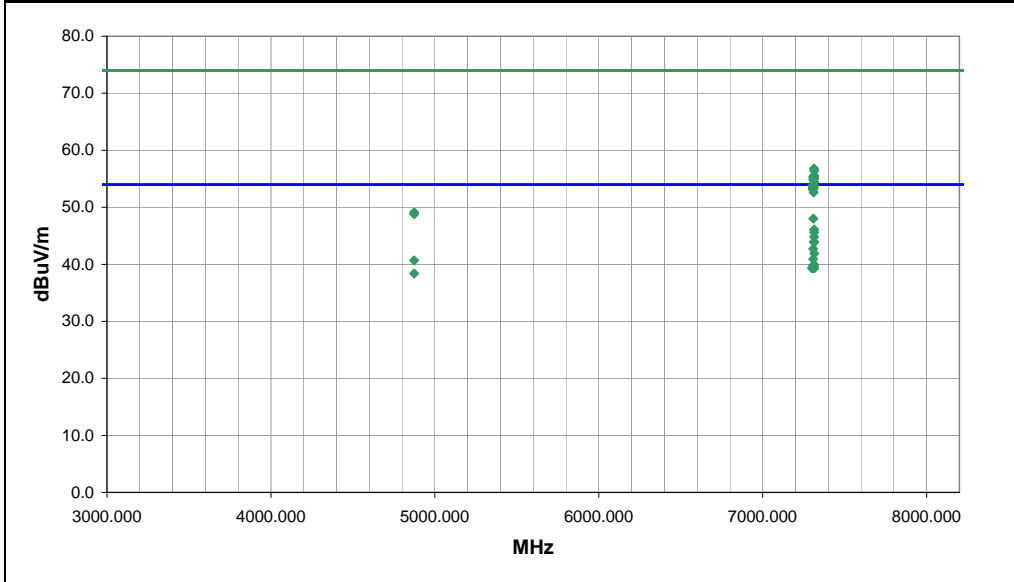
TEST PARAMETERS	
Antenna Height(s) (m) 1 - 4	Test Distance (m) 3

COMMENTS
CK3 SN:12410858052

EUT OPERATING MODES
Continuous Tx, 802.11, mid channel, Antenna 1

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	5	 Signature
Configuration #	1	
Results	Pass	



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
7308.470	32.5	15.5	2.0	1.0	3.0	0.0	V-Horn	AV	0.0	48.0	54.0	-6.0	1 Mbps, EUT horizontal
7313.680	30.6	15.5	186.0	1.1	3.0	0.0	H-Horn	AV	0.0	46.1	54.0	-7.9	1 Mbps, EUT vertical
7313.630	30.1	15.5	311.0	1.0	3.0	0.0	V-Horn	AV	0.0	45.6	54.0	-8.4	1 Mbps, EUT horizontal, Ant 2
7313.790	29.3	15.5	302.0	1.0	3.0	0.0	V-Horn	AV	0.0	44.8	54.0	-9.2	1 Mbps, EUT on side, Ant 2
7313.070	28.4	15.5	184.0	1.0	3.0	0.0	V-Horn	AV	0.0	43.9	54.0	-10.1	1 Mbps, EUT vertical, Ant 2
7313.860	28.4	15.5	151.0	1.1	3.0	0.0	H-Horn	AV	0.0	43.9	54.0	-10.1	1 Mbps, EUT vertical, Ant 2
7314.020	28.4	15.5	246.0	1.4	3.0	0.0	H-Horn	AV	0.0	43.9	54.0	-10.1	1 Mbps, EUT on side, Ant 2
7307.830	27.2	15.5	11.0	1.2	3.0	0.0	V-Horn	AV	0.0	42.7	54.0	-11.3	11 Mbps, EUT horizontal
7314.580	26.4	15.5	194.0	1.3	3.0	0.0	H-Horn	AV	0.0	41.9	54.0	-12.1	11 Mbps, EUT vertical
7308.120	25.4	15.5	130.0	1.1	3.0	0.0	H-Horn	AV	0.0	40.9	54.0	-13.1	1 Mbps, EUT horizontal, Ant 2
4873.985	31.0	9.7	201.0	1.2	3.0	0.0	H-Horn	AV	0.0	40.7	54.0	-13.3	1 Mbps, EUT vertical
7314.920	24.4	15.5	182.0	1.3	3.0	0.0	H-Horn	AV	0.0	39.9	54.0	-14.1	6 Mbps, EUT vertical
7308.110	24.3	15.5	202.0	1.2	3.0	0.0	V-Horn	AV	0.0	39.8	54.0	-14.2	6 Mbps, EUT horizontal
7313.910	23.9	15.5	202.0	1.2	3.0	0.0	V-Horn	AV	0.0	39.4	54.0	-14.6	36 Mbps, EUT horizontal
7301.000	23.8	15.5	182.0	1.3	3.0	0.0	H-Horn	AV	0.0	39.3	54.0	-14.7	36 Mbps, EUT vertical
7303.020	23.8	15.5	182.0	1.3	3.0	0.0	H-Horn	AV	0.0	39.3	54.0	-14.7	54 Mbps, EUT vertical
7314.340	23.8	15.5	202.0	1.2	3.0	0.0	V-Horn	AV	0.0	39.3	54.0	-14.7	54 Mbps, EUT horizontal
4874.025	23.7	9.7	287.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.4	54.0	-15.6	1 Mbps, EUT horizontal
7313.310	41.3	15.5	2.0	1.0	3.0	0.0	V-Horn	PK	0.0	56.8	74.0	-17.2	1 Mbps, EUT horizontal
7314.430	40.9	15.5	11.0	1.2	3.0	0.0	V-Horn	PK	0.0	56.4	74.0	-17.6	11 Mbps, EUT horizontal
7312.690	40.1	15.5	302.0	1.0	3.0	0.0	V-Horn	PK	0.0	55.6	74.0	-18.4	1 Mbps, EUT on side, Ant 2
7307.980	39.8	15.5	186.0	1.1	3.0	0.0	H-Horn	PK	0.0	55.3	74.0	-18.7	1 Mbps, EUT vertical
7315.270	39.8	15.5	184.0	1.0	3.0	0.0	V-Horn	PK	0.0	55.3	74.0	-18.7	1 Mbps, EUT horizontal, Ant 2
7312.360	39.6	15.5	194.0	1.3	3.0	0.0	H-Horn	PK	0.0	55.1	74.0	-18.9	11 Mbps, EUT vertical
7312.670	39.5	15.5	311.0	1.0	3.0	0.0	V-Horn	PK	0.0	55.0	74.0	-19.0	1 Mbps, EUT horizontal, Ant 2
7307.700	39.4	15.5	246.0	1.4	3.0	0.0	H-Horn	PK	0.0	54.9	74.0	-19.1	1 Mbps, EUT on side, Ant 2
7314.140	38.9	15.5	151.0	1.1	3.0	0.0	H-Horn	PK	0.0	54.4	74.0	-19.6	1 Mbps, EUT vertical, Ant 2
7302.700	38.3	15.5	182.0	1.3	3.0	0.0	H-Horn	PK	0.0	53.8	74.0	-20.2	6 Mbps, EUT vertical
7312.760	38.3	15.5	130.0	1.1	3.0	0.0	H-Horn	PK	0.0	53.8	74.0	-20.2	1 Mbps, EUT horizontal, Ant 2
7305.950	37.9	15.5	182.0	1.3	3.0	0.0	H-Horn	PK	0.0	53.4	74.0	-20.6	36 Mbps, EUT vertical
7311.910	37.9	15.5	202.0	1.2	3.0	0.0	V-Horn	PK	0.0	53.4	74.0	-20.6	36 Mbps, EUT horizontal
7304.940	37.8	15.5	202.0	1.2	3.0	0.0	V-Horn	PK	0.0	53.3	74.0	-20.7	6 Mbps, EUT horizontal
7305.910	37.6	15.5	202.0	1.2	3.0	0.0	V-Horn	PK	0.0	53.1	74.0	-20.9	54 Mbps, EUT horizontal
7310.450	37.1	15.5	182.0	1.3	3.0	0.0	H-Horn	PK	0.0	52.6	74.0	-21.4	54 Mbps, EUT vertical
4873.715	39.4	9.7	287.0	1.0	3.0	0.0	V-Horn	PK	0.0	49.1	74.0	-24.9	1 Mbps, EUT horizontal
4873.785	39.1	9.7	201.0	1.2	3.0	0.0	H-Horn	PK	0.0	48.8	74.0	-25.2	1 Mbps, EUT vertical

EUT: CK3x with DHIB	Work Order: INMC0479
Serial Number: None	Date: 08/20/08
Customer: Intermec Technologies Corporation	Temperature: 54 °C
Attendees: Sean Mackellar	Humidity: 55%
Project: None	Barometric Pres.: 1006.9mb
Tested by: Rod Peloquin	Power: Battery
	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2007	ANSI C63.4:2003, KDB No. 558074

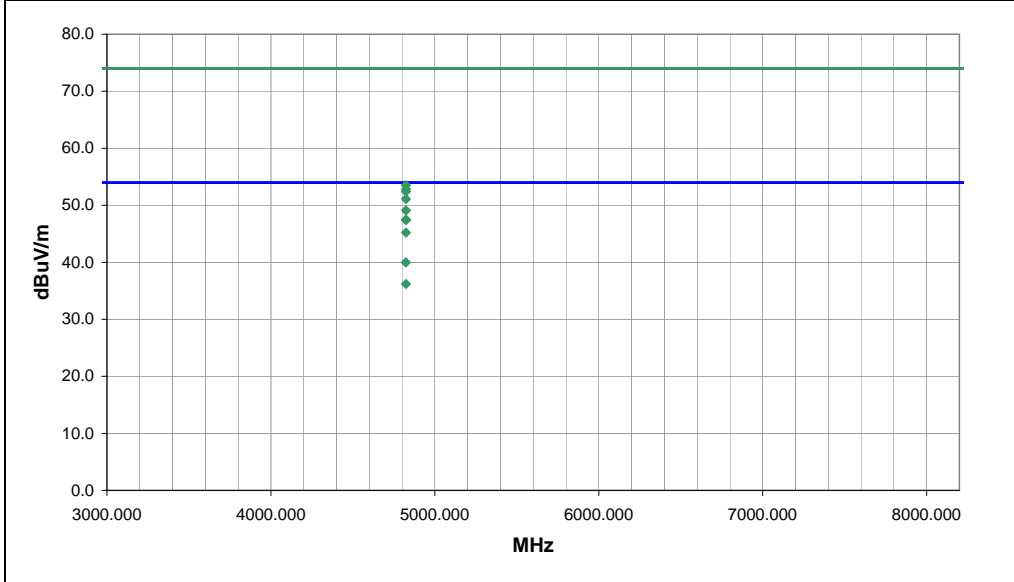
TEST PARAMETERS	
Antenna Height(s) (m) 1 - 4	Test Distance (m) 3

COMMENTS
CK3 SN:12410858052

EUT OPERATING MODES
Continuous Tx, 802.11, low channel

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	6	<i>Roddy Le Pelley</i> Signature
Configuration #	1	
Results	Pass	



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
4823.993	39.6	9.5	14.0	1.0	3.0	0.0	H-Horn	AV	0.0	49.1	54.0	-4.9	1 Mbps, EUT vertical, Ant 2
4823.990	38.0	9.5	15.0	1.0	3.0	0.0	H-Horn	AV	0.0	47.5	54.0	-6.5	1 Mbps, EUT vertical, Ant 1
4823.917	37.9	9.5	219.0	1.0	3.0	0.0	V-Horn	AV	0.0	47.4	54.0	-6.6	1 Mbps, EUT horizontal
4824.030	35.7	9.5	19.0	1.5	3.0	0.0	V-Horn	AV	0.0	45.2	54.0	-8.8	1 Mbps, EUT horizontal, Ant 2
4823.943	26.7	9.5	228.0	1.0	3.0	0.0	V-Horn	AV	0.0	36.2	54.0	-17.8	1 Mbps, EUT horizontal, Ant 1
4823.953	44.0	9.5	14.0	1.0	3.0	0.0	H-Horn	PK	0.0	53.5	74.0	-20.5	1 Mbps, EUT vertical, Ant 2
4823.737	43.3	9.5	15.0	1.0	3.0	0.0	H-Horn	PK	0.0	52.8	74.0	-21.2	1 Mbps, EUT vertical, Ant 1
4823.870	42.9	9.5	219.0	1.0	3.0	0.0	V-Horn	PK	0.0	52.4	74.0	-21.6	1 Mbps, EUT horizontal
4824.037	41.6	9.5	19.0	1.5	3.0	0.0	V-Horn	PK	0.0	51.1	74.0	-22.9	1 Mbps, EUT horizontal, Ant 2
4823.447	30.5	9.5	228.0	1.0	3.0	0.0	V-Horn	PK	0.0	40.0	74.0	-34.0	1 Mbps, EUT horizontal, Ant 1

EUT: CK3x with DHIB	Work Order: INMC0479
Serial Number: None	Date: 08/20/08
Customer: Intermec Technologies Corporation	Temperature: 54 °C
Attendees: Sean Mackellar	Humidity: 55%
Project: None	Barometric Pres.: 1006.9mb
Tested by: Rod Peloquin	Power: Battery
	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2007	ANSI C63.4:2003, KDB No. 558074

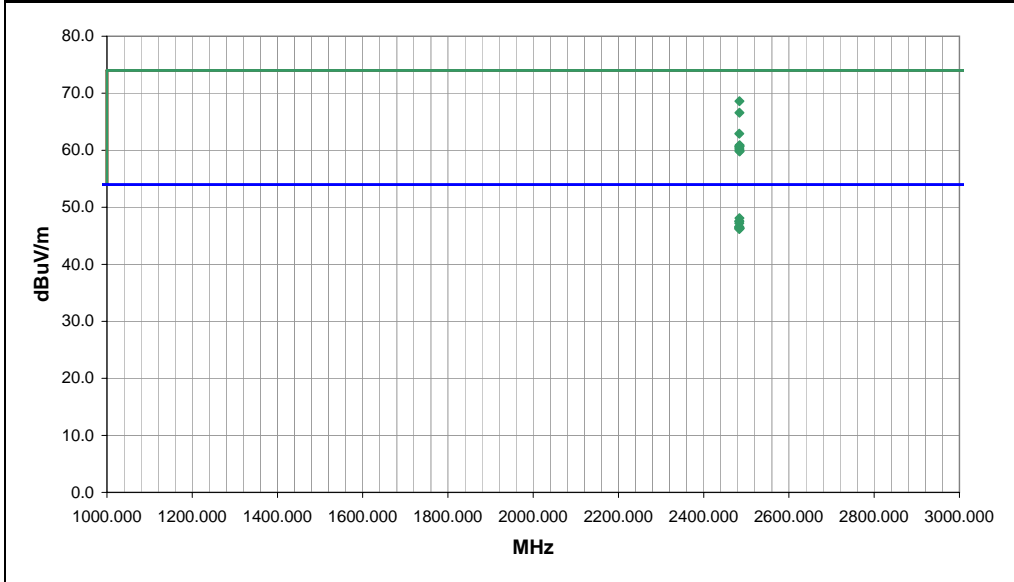
TEST PARAMETERS	
Antenna Height(s) (m) 1 - 4	Test Distance (m) 3

COMMENTS
CK3 SN:12410858052

EUT OPERATING MODES
Continuous Tx, 802.11, high channel

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	7	 Signature
Configuration #	1	
Results	Pass	



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
2483.970	46.4	2.2	277.0	1.2	3.0	20.0	H-Horn	PK	0.0	68.6	74.0	-5.4	6 Mbps, EUT vertical, Ant 1
2483.917	25.9	2.2	107.0	1.2	3.0	20.0	H-Horn	AV	0.0	48.1	54.0	-5.9	6 Mbps, EUT vertical, Ant 2
2483.533	25.4	2.2	296.0	1.2	3.0	20.0	V-Horn	AV	0.0	47.6	54.0	-6.4	6 Mbps, EUT horizontal, Ant 2
2483.518	25.3	2.2	177.0	2.0	3.0	20.0	H-Horn	AV	0.0	47.5	54.0	-6.5	1 Mbps, EUT vertical, Ant 2
2483.500	25.0	2.2	333.0	1.2	3.0	20.0	V-Horn	AV	0.0	47.2	54.0	-6.8	1 Mbps, EUT horizontal Ant 2
2484.032	44.4	2.2	296.0	1.2	3.0	20.0	V-Horn	PK	0.0	66.6	74.0	-7.4	6 Mbps, EUT horizontal, Ant 2
2483.212	24.4	2.2	277.0	1.2	3.0	20.0	H-Horn	AV	0.0	46.6	54.0	-7.4	6 Mbps, EUT vertical, Ant 1
2483.775	24.3	2.2	209.0	1.2	3.0	20.0	V-Horn	AV	0.0	46.5	54.0	-7.5	6 Mbps, EUT horizontal, Ant 1
2483.395	24.2	2.2	52.0	1.0	3.0	20.0	V-Horn	AV	0.0	46.4	54.0	-7.6	1 Mbps, EUT vertical, Ant 1
2483.767	24.1	2.2	21.0	1.2	3.0	20.0	V-Horn	AV	0.0	46.3	54.0	-7.7	6 Mbps, EUT vertical, Ant 1
2484.145	24.1	2.2	320.0	1.2	3.0	20.0	V-Horn	AV	0.0	46.3	54.0	-7.7	6 Mbps, EUT vertical, Ant 2
2483.438	24.0	2.2	202.0	1.0	3.0	20.0	H-Horn	AV	0.0	46.2	54.0	-7.8	1 Mbps, EUT vertical, Ant 1
2483.650	40.7	2.2	106.0	1.2	3.0	20.0	H-Horn	PK	0.0	62.9	74.0	-11.1	6 Mbps, EUT vertical, Ant 2
2484.118	38.7	2.2	333.0	1.2	3.0	20.0	V-Horn	PK	0.0	60.9	74.0	-13.1	1 Mbps, EUT horizontal Ant 2
2483.660	38.5	2.2	52.0	1.0	3.0	20.0	V-Horn	PK	0.0	60.7	74.0	-13.3	1 Mbps, EUT vertical, Ant 1
2484.197	38.5	2.2	177.0	2.0	3.0	20.0	H-Horn	PK	0.0	60.7	74.0	-13.3	1 Mbps, EUT vertical, Ant 2
2483.517	38.2	2.2	202.0	1.0	3.0	20.0	H-Horn	PK	0.0	60.4	74.0	-13.6	1 Mbps, EUT vertical, Ant 1
2484.008	38.0	2.2	320.0	1.2	3.0	20.0	V-Horn	PK	0.0	60.2	74.0	-13.8	6 Mbps, EUT vertical, Ant 2
2483.728	37.7	2.2	21.0	1.2	3.0	20.0	V-Horn	PK	0.0	59.9	74.0	-14.1	6 Mbps, EUT vertical, Ant 1
2484.120	37.6	2.2	209.0	1.2	3.0	20.0	V-Horn	PK	0.0	59.8	74.0	-14.2	6 Mbps, EUT horizontal, Ant 1

RADIATED SPURIOUS EMISSIONS

EMC

EUT: CK3x with DHIB	Work Order: INMC0479
Serial Number: None	Date: 08/22/08
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 46%
Project: None	Barometric Pres.: 30.03
Tested by: Jennifer Herrett	Power: Battery
	Job Site: EV01

TEST SPECIFICATIONS		Test Method	
FCC 15.247 (DTS):2007		ANSI C63.4:2003, KDB No. 558074	

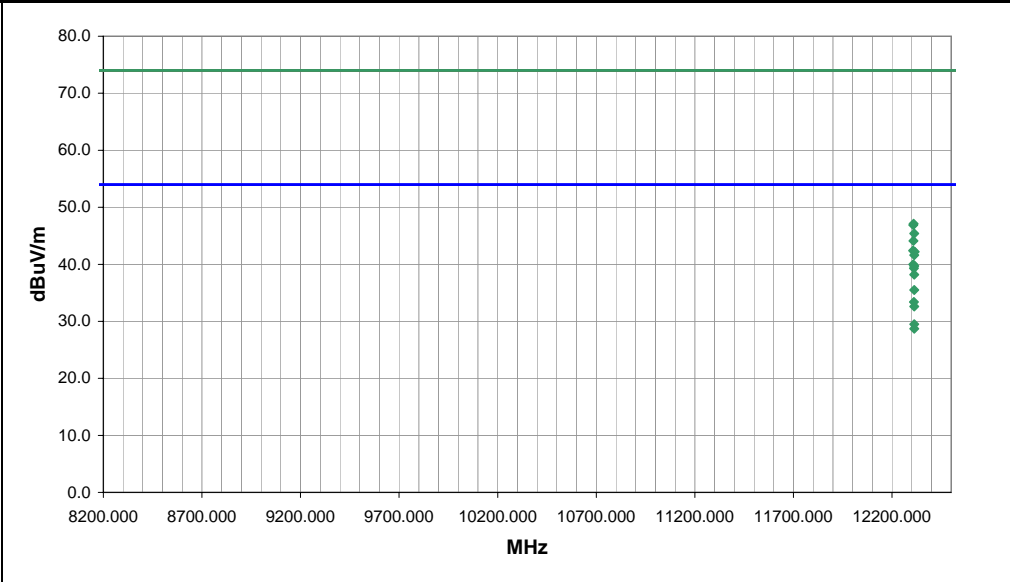
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
CK3 SN:12410858052

EUT OPERATING MODES
Continuous Tx, 802.11, high channel

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	8	 Signature
Configuration #	1	
Results	Pass	



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
12312.630	45.0	-3.4	179.0	1.1	3.0	0.0	V-Horn	AV	0.0	41.6	54.0	-12.4	1Mbps, EUT vertical
12310.690	42.7	-3.4	14.0	1.0	3.0	0.0	V-Horn	AV	0.0	39.3	54.0	-14.7	1Mbps, EUT horizontal
12312.530	41.5	-3.3	136.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.2	54.0	-15.8	1Mbps, EUT vertical
12312.280	38.9	-3.4	177.0	1.0	3.0	0.0	H-Horn	AV	0.0	35.5	54.0	-18.5	1Mbps, EUT vertical, Ant 2
12310.740	36.8	-3.4	20.0	1.0	3.0	0.0	V-Horn	AV	0.0	33.4	54.0	-20.6	1Mbps, EUT horizontal, Ant 2
12312.670	35.9	-3.3	114.0	1.0	3.0	0.0	H-Horn	AV	0.0	32.6	54.0	-21.4	1Mbps, EUT horizontal
12312.790	32.8	-3.3	236.0	1.0	3.0	0.0	V-Horn	AV	0.0	29.5	54.0	-24.5	1Mbps, EUT vertical, Ant 2
12312.590	32.1	-3.4	239.0	1.0	3.0	0.0	H-Horn	AV	0.0	28.7	54.0	-25.3	1Mbps, EUT horizontal, Ant 2
12309.160	50.5	-3.4	179.0	1.1	3.0	0.0	V-Horn	PK	0.0	47.1	74.0	-26.9	1Mbps, EUT vertical
12307.320	50.3	-3.4	14.0	1.0	3.0	0.0	V-Horn	PK	0.0	46.9	74.0	-27.1	1Mbps, EUT horizontal
12312.780	48.8	-3.4	136.0	1.0	3.0	0.0	H-Horn	PK	0.0	45.4	74.0	-28.6	1Mbps, EUT vertical
12308.680	47.5	-3.4	177.0	1.0	3.0	0.0	H-Horn	PK	0.0	44.1	74.0	-29.9	1Mbps, EUT vertical, Ant 2
12306.560	45.8	-3.4	20.0	1.0	3.0	0.0	V-Horn	PK	0.0	42.4	74.0	-31.6	1Mbps, EUT horizontal, Ant 2
12314.640	45.6	-3.4	114.0	1.0	3.0	0.0	H-Horn	PK	0.0	42.2	74.0	-31.8	1Mbps, EUT horizontal
12307.310	43.4	-3.4	239.0	1.0	3.0	0.0	H-Horn	PK	0.0	40.0	74.0	-34.0	1Mbps, EUT horizontal, Ant 2
12312.640	43.1	-3.4	236.0	1.0	3.0	0.0	V-Horn	PK	0.0	39.7	74.0	-34.3	1Mbps, EUT vertical, Ant 2

EUT: CK3x with DHIB	Work Order: INMC0479
Serial Number: None	Date: 08/22/08
Customer: Intermed Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 46%
Project: None	Barometric Pres.: 30.03
Tested by: Jennifer Herrett	Power: Battery
	Job Site: EV01

TEST SPECIFICATIONS		Test Method	
FCC 15.247 (DTS):2007		ANSI C63.4:2003, KDB No. 558074	

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

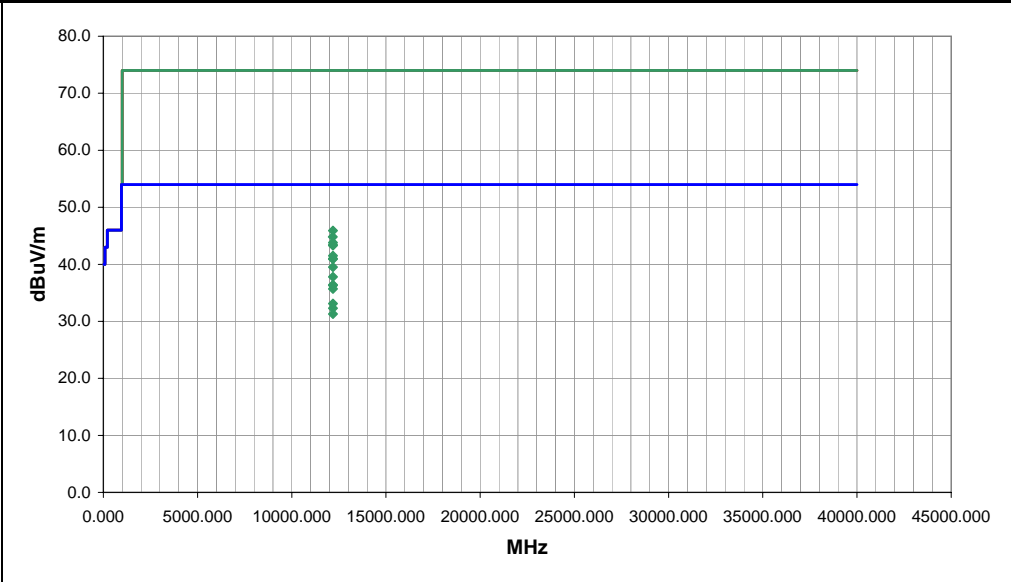
COMMENTS
CK3 SN:12410858052

EUT OPERATING MODES
Continuous Tx, 802.11, mid channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	9	<i>Jennifer Herrett</i> Signature
Configuration #	1	
Results	Pass	



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
12185.660	43.6	-4.1	128.0	1.0	3.0	0.0	H-Horn	AV	0.0	39.5	54.0	-14.5	1Mbps, EUT vertical
12187.700	41.9	-4.1	183.0	1.0	3.0	0.0	V-Horn	AV	0.0	37.8	54.0	-16.2	1Mbps, EUT vertical
12187.660	40.4	-4.0	204.0	1.0	3.0	0.0	H-Horn	AV	0.0	36.4	54.0	-17.6	1Mbps, EUT vertical, Ant 2
12187.520	40.4	-4.1	104.0	1.0	3.0	0.0	V-Horn	AV	0.0	36.3	54.0	-17.7	1Mbps, EUT horizontal
12182.170	39.7	-4.0	86.0	1.0	3.0	0.0	V-Horn	AV	0.0	35.7	54.0	-18.3	1Mbps, EUT horizontal, Ant 2
12188.010	37.2	-4.1	232.0	1.0	3.0	0.0	H-Horn	AV	0.0	33.1	54.0	-20.9	1Mbps, EUT horizontal
12184.120	36.4	-4.1	234.0	1.0	3.0	0.0	H-Horn	AV	0.0	32.3	54.0	-21.7	1Mbps, EUT horizontal, Ant 2
12187.620	35.4	-4.1	117.0	1.0	3.0	0.0	V-Horn	AV	0.0	31.3	54.0	-22.7	1Mbps, EUT vertical, Ant 2
12182.410	50.0	-4.1	128.0	1.0	3.0	0.0	H-Horn	PK	0.0	45.9	74.0	-28.1	1Mbps, EUT vertical
12181.720	48.9	-4.1	183.0	1.0	3.0	0.0	V-Horn	PK	0.0	44.8	74.0	-29.2	1Mbps, EUT vertical
12187.710	47.9	-4.1	204.0	1.0	3.0	0.0	H-Horn	PK	0.0	43.8	74.0	-30.2	1Mbps, EUT vertical, Ant 2
12185.820	47.5	-4.1	104.0	1.0	3.0	0.0	V-Horn	PK	0.0	43.4	74.0	-30.6	1Mbps, EUT horizontal
12188.140	47.4	-4.1	86.0	1.0	3.0	0.0	V-Horn	PK	0.0	43.3	74.0	-30.7	1Mbps, EUT horizontal, Ant 2
12185.560	45.6	-4.1	232.0	1.0	3.0	0.0	H-Horn	PK	0.0	41.5	74.0	-32.5	1Mbps, EUT horizontal
12183.840	45.1	-4.1	234.0	1.0	3.0	0.0	H-Horn	PK	0.0	41.0	74.0	-33.0	1Mbps, EUT horizontal, Ant 2
12183.690	45.0	-4.1	117.0	1.0	3.0	0.0	V-Horn	PK	0.0	40.9	74.0	-33.1	1Mbps, EUT vertical, Ant 2

EMC RADIATED SPURIOUS EMISSIONS

EUT: CK3x with DHIB	Work Order: INMC0479
Serial Number: None	Date: 08/22/08
Customer: Intermecc Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 46%
Project: None	Barometric Pres.: 30.03
Tested by: Jennifer Herrett	Power: Battery
	Job Site: EV01

TEST SPECIFICATIONS	
FCC 15.247 (DTS):2007	Test Method ANSI C63.4:2003, KDB No. 558074

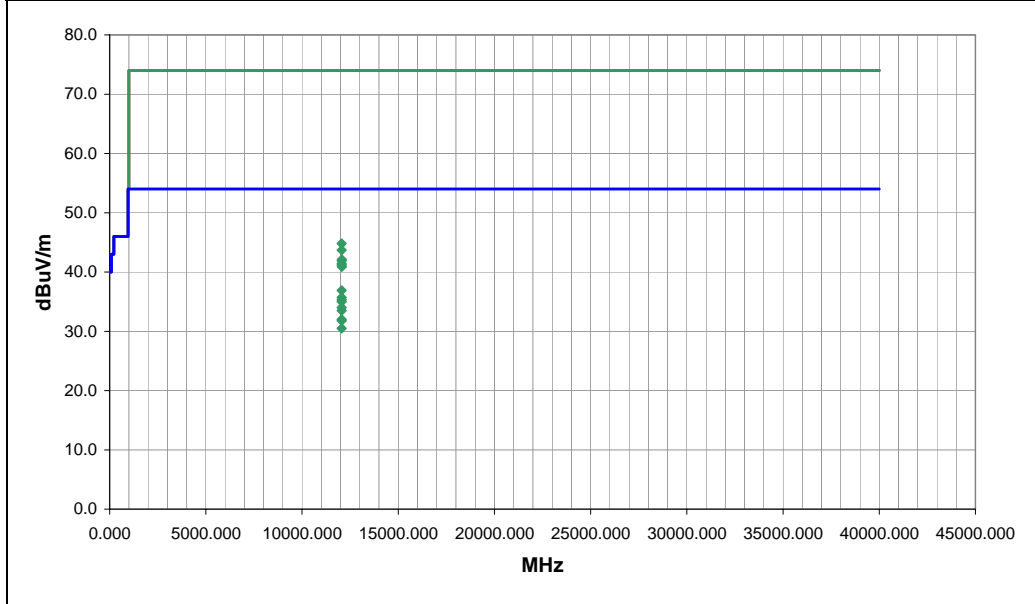
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
CK3 SN:12410858052

EUT OPERATING MODES
Continuous Tx, 802.11, low channel

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	10	 Signature
Configuration #	1	
Results	Pass	



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
12062.550	41.8	-4.9	127.0	1.0	3.0	0.0	H-Horn	AV	0.0	36.9	54.0	-17.1	1Mbps, EUT vertical
12060.670	40.6	-4.9	12.0	1.1	3.0	0.0	V-Horn	AV	0.0	35.7	54.0	-18.3	1Mbps, EUT horizontal, Ant 2
12062.560	40.2	-4.9	173.0	1.1	3.0	0.0	V-Horn	AV	0.0	35.3	54.0	-18.7	1Mbps, EUT vertical, Ant 2
12062.570	38.8	-4.8	229.0	1.0	3.0	0.0	H-Horn	AV	0.0	34.0	54.0	-20.0	1Mbps, EUT vertical, Ant 2
12060.880	38.4	-4.9	139.0	1.1	3.0	0.0	V-Horn	AV	0.0	33.5	54.0	-20.5	1Mbps, EUT vertical
12060.720	36.9	-4.9	14.0	1.1	3.0	0.0	V-Horn	AV	0.0	32.0	54.0	-22.0	1Mbps, EUT horizontal
12059.000	36.7	-4.9	169.0	1.0	3.0	0.0	H-Horn	AV	0.0	31.8	54.0	-22.2	1Mbps, EUT horizontal, Ant 2
12062.310	35.3	-4.8	133.0	1.0	3.0	0.0	H-Horn	AV	0.0	30.5	54.0	-23.5	1Mbps, EUT horizontal
12062.280	49.7	-4.9	127.0	1.0	3.0	0.0	H-Horn	PK	0.0	44.8	74.0	-29.2	1Mbps, EUT vertical
12062.260	48.6	-4.9	12.0	1.1	3.0	0.0	V-Horn	PK	0.0	43.7	74.0	-30.3	1Mbps, EUT horizontal, Ant 2
12063.140	47.0	-4.9	229.0	1.0	3.0	0.0	H-Horn	PK	0.0	42.1	74.0	-31.9	1Mbps, EUT vertical, Ant 2
12062.060	46.8	-4.9	173.0	1.1	3.0	0.0	V-Horn	PK	0.0	41.9	74.0	-32.1	1Mbps, EUT vertical, Ant 2
12060.820	46.3	-4.9	14.0	1.1	3.0	0.0	V-Horn	PK	0.0	41.4	74.0	-32.6	1Mbps, EUT horizontal
12058.960	46.1	-4.9	169.0	1.0	3.0	0.0	H-Horn	PK	0.0	41.2	74.0	-32.8	1Mbps, EUT horizontal, Ant 2
12063.540	45.8	-4.9	133.0	1.0	3.0	0.0	H-Horn	PK	0.0	40.9	74.0	-33.1	1Mbps, EUT horizontal
12060.390	39.9	-4.9	139.0	1.1	3.0	0.0	V-Horn	PK	0.0	35.0	74.0	-39.0	1Mbps, EUT vertical

EUT: CK3x with DHIB	Work Order: INMC0479
Serial Number: None	Date: 08/22/08
Customer: Intermecc Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 46%
Project: None	Barometric Pres.: 30.03
Tested by: Jennifer Herrett	Power: Battery
	Job Site: EV01

TEST SPECIFICATIONS		Test Method	
FCC 15.247 (DTS):2007		ANSI C63.4:2003, KDB No. 558074	

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
CK3 SN:12410858052

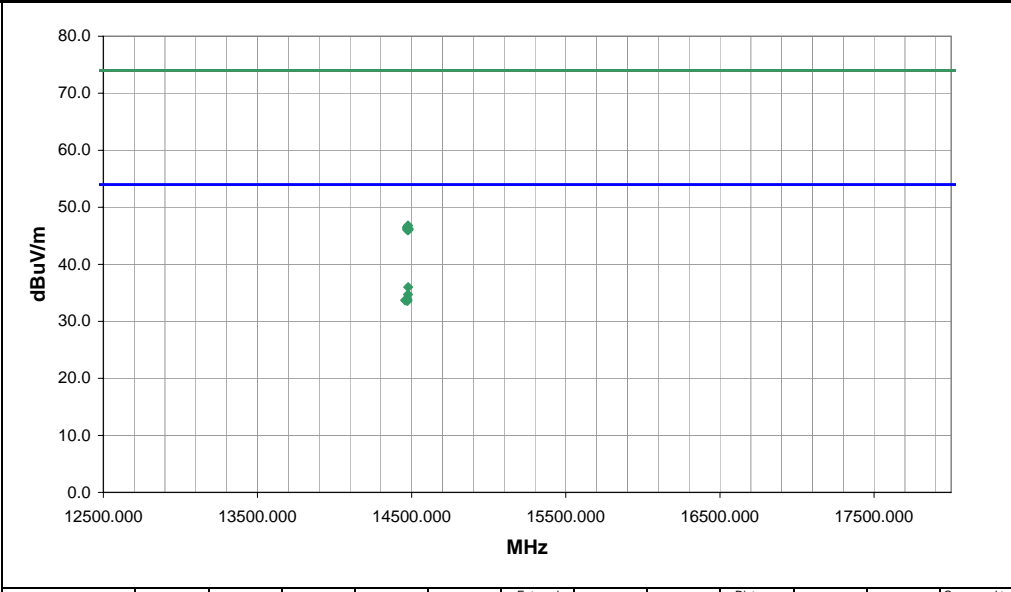
EUT OPERATING MODES
Continuous Tx, 802.11, low channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	11
Configuration #	1
Results	Pass

Jennifer Herrett
Signature



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
14476.200	27.4	7.3	209.0	1.0	3.0	0.0	V-Horn	AV	0.0	34.7	54.0	-19.3	1Mbps, EUT vertical
14471.860	26.6	7.3	316.0	1.0	3.0	0.0	V-Horn	AV	0.0	33.9	54.0	-20.1	1Mbps, EUT horizontal, Ant 2
14457.570	26.4	7.3	46.0	1.0	3.0	0.0	H-Horn	AV	0.0	33.7	54.0	-20.3	1Mbps, EUT vertical
14463.790	26.4	7.3	341.0	1.0	3.0	0.0	H-Horn	AV	0.0	33.7	54.0	-20.3	1Mbps, EUT vertical, Ant 2
14464.090	26.4	7.3	131.0	1.0	3.0	0.0	V-Horn	AV	0.0	33.7	54.0	-20.3	1Mbps, EUT vertical, Ant 2
14464.150	26.4	7.3	284.0	1.0	3.0	0.0	H-Horn	AV	0.0	33.7	54.0	-20.3	1Mbps, EUT horizontal
14465.680	26.4	7.3	279.0	1.0	3.0	0.0	V-Horn	AV	0.0	33.7	54.0	-20.3	1Mbps, EUT horizontal
14472.750	26.3	7.3	281.0	1.0	3.0	0.0	H-Horn	AV	0.0	33.6	54.0	-20.4	1Mbps, EUT horizontal, Ant 2
14476.600	39.5	7.3	284.0	1.0	3.0	0.0	H-Horn	PK	0.0	46.8	74.0	-27.2	1Mbps, EUT horizontal
14470.070	39.2	7.3	279.0	1.0	3.0	0.0	V-Horn	PK	0.0	46.5	74.0	-27.5	1Mbps, EUT horizontal
14472.800	39.2	7.3	46.0	1.0	3.0	0.0	H-Horn	PK	0.0	46.5	74.0	-27.5	1Mbps, EUT vertical
14469.870	38.9	7.3	316.0	1.0	3.0	0.0	V-Horn	PK	0.0	46.2	74.0	-27.8	1Mbps, EUT horizontal, Ant 2
14481.130	38.9	7.3	131.0	1.0	3.0	0.0	V-Horn	PK	0.0	46.2	74.0	-27.8	1Mbps, EUT vertical, Ant 2
14473.500	38.7	7.3	341.0	1.0	3.0	0.0	H-Horn	PK	0.0	46.0	74.0	-28.0	1Mbps, EUT vertical, Ant 2
14478.130	38.7	7.3	281.0	1.0	3.0	0.0	H-Horn	PK	0.0	46.0	74.0	-28.0	1Mbps, EUT horizontal, Ant 2
14476.870	28.7	7.3	209.0	1.0	3.0	0.0	V-Horn	PK	0.0	36.0	74.0	-38.0	1Mbps, EUT vertical

EUT: CK3x with DHIB and Dock	Work Order: INMC0479
Serial Number: None	Date: 08/22/08
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 46%
Project: None	Barometric Pres.: 30.03
Tested by: David Divergigelis	Power: Battery
	Job Site: EV01

TEST SPECIFICATIONS Test Method

FCC 15.247 (DTS):2007 ANSI C63.4:2003, KDB No. 558074

TEST PARAMETERS

Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
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COMMENTS

CK3 SN:12410858052

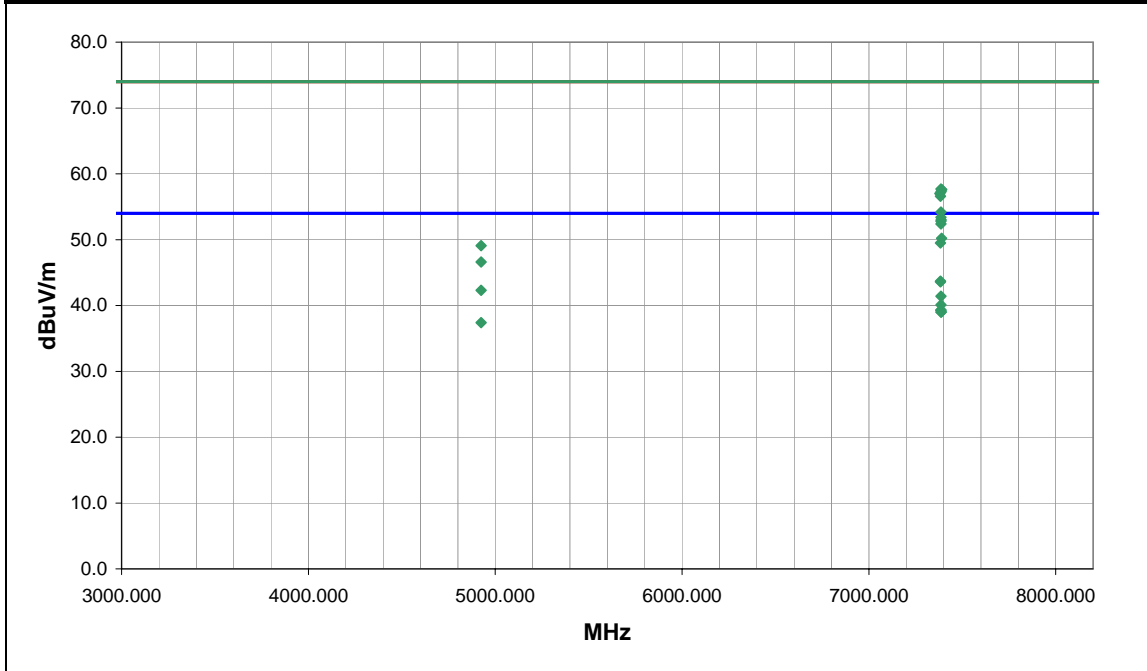
EUT OPERATING MODES

Continuous Tx, 802.11, high channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	13	Signature <i>David Divergigelis</i>
Configuration #	2	
Results	Pass	



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
7389.270	34.5	15.7	233.0	1.0	3.0	0.0	V-Horn	AV	0.0	50.2	54.0	-3.8	1Mbps
7383.260	33.8	15.7	236.0	1.0	3.0	0.0	H-Horn	AV	0.0	49.5	54.0	-4.5	1Mbps
7383.410	28.0	15.7	230.0	1.0	3.0	0.0	V-Horn	AV	0.0	43.7	54.0	-10.3	11Mbps
7382.850	28.0	15.6	235.0	1.0	3.0	0.0	H-Horn	AV	0.0	43.6	54.0	-10.4	11Mbps
4923.985	32.4	9.9	198.0	1.0	3.0	0.0	H-Horn	AV	0.0	42.3	54.0	-11.7	1Mbps
7385.633	25.7	15.7	248.0	1.0	3.0	0.0	H-Horn	AV	0.0	41.4	54.0	-12.6	6Mbps
7385.483	24.4	15.7	181.0	1.3	3.0	0.0	V-Horn	AV	0.0	40.1	54.0	-13.9	6Mbps
7384.877	23.6	15.7	209.0	1.0	3.0	0.0	H-Horn	AV	0.0	39.3	54.0	-14.7	36Mbps
7385.527	23.6	15.7	235.0	1.4	3.0	0.0	H-Horn	AV	0.0	39.3	54.0	-14.7	54Mbps
7385.417	23.3	15.7	338.0	3.6	3.0	0.0	V-Horn	AV	0.0	39.0	54.0	-15.0	54Mbps
7386.887	23.3	15.7	284.0	1.3	3.0	0.0	V-Horn	AV	0.0	39.0	54.0	-15.0	36Mbps
7385.370	42.0	15.7	248.0	1.0	3.0	0.0	H-Horn	PK	0.0	57.7	74.0	-16.3	6Mbps
7389.740	41.9	15.7	233.0	1.0	3.0	0.0	V-Horn	PK	0.0	57.6	74.0	-16.4	1Mbps
4923.900	27.5	9.9	220.0	1.5	3.0	0.0	V-Horn	AV	0.0	37.4	54.0	-16.6	1Mbps
7386.490	41.6	15.7	230.0	1.0	3.0	0.0	V-Horn	PK	0.0	57.3	74.0	-16.7	11Mbps
7379.850	41.3	15.7	235.0	1.0	3.0	0.0	H-Horn	PK	0.0	57.0	74.0	-17.0	11Mbps
7383.410	40.9	15.7	236.0	1.0	3.0	0.0	H-Horn	PK	0.0	56.6	74.0	-17.4	1Mbps
7385.523	38.5	15.7	181.0	1.3	3.0	0.0	V-Horn	PK	0.0	54.2	74.0	-19.8	6Mbps
7385.547	37.7	15.7	284.0	1.3	3.0	0.0	V-Horn	PK	0.0	53.4	74.0	-20.6	36Mbps
7386.143	37.3	15.7	209.0	1.0	3.0	0.0	H-Horn	PK	0.0	53.0	74.0	-21.0	36Mbps

EUT: CK3x with DHIB and Dock	Work Order: INMC0479
Serial Number: None	Date: 08/22/08
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 46%
Project: None	Barometric Pres.: 30.03
Tested by: David Divergigelis	Power: Battery
	Job Site: EV01

TEST SPECIFICATIONS Test Method

FCC 15.247 (DTS):2007	ANSI C63.4:2003, KDB No. 558074
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TEST PARAMETERS

Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
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COMMENTS

CK3 SN:12410858052

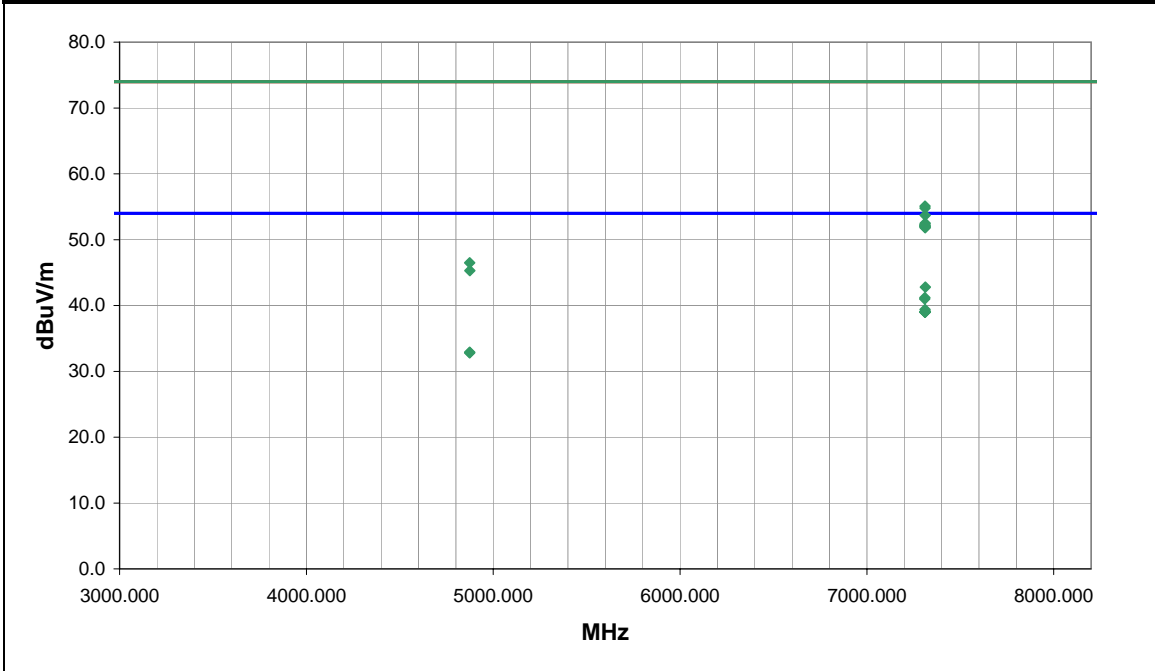
EUT OPERATING MODES

Continuous Tx, 802.11, mid channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	14	Signature <i>David Divergigelis</i>
Configuration #	2	
Results	Pass	



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
7312.967	27.3	15.5	192.0	1.2	3.0	0.0	V-Horn	AV	0.0	42.8	54.0	-11.2	1Mbps
7310.223	25.7	15.5	177.0	1.2	3.0	0.0	V-Horn	AV	0.0	41.2	54.0	-12.8	11Mbps
7309.724	25.5	15.5	205.0	1.0	3.0	0.0	H-Horn	AV	0.0	41.0	54.0	-13.0	11Mbps
7310.992	23.9	15.5	244.0	1.0	3.0	0.0	H-Horn	AV	0.0	39.4	54.0	-14.6	6Mbps
7312.459	23.6	15.5	211.0	3.0	3.0	0.0	V-Horn	AV	0.0	39.1	54.0	-14.9	6Mbps
7310.576	23.5	15.5	148.0	1.0	3.0	0.0	V-Horn	AV	0.0	39.0	54.0	-15.0	36Mbps
7310.797	23.5	15.5	213.0	1.0	3.0	0.0	H-Horn	AV	0.0	39.0	54.0	-15.0	1Mbps
7311.165	23.5	15.5	4.0	1.0	3.0	0.0	H-Horn	AV	0.0	39.0	54.0	-15.0	54Mbps
7311.403	23.5	15.5	170.0	1.0	3.0	0.0	V-Horn	AV	0.0	39.0	54.0	-15.0	54Mbps
7311.817	23.5	15.5	6.0	1.0	3.0	0.0	H-Horn	AV	0.0	39.0	54.0	-15.0	36Mbps
7311.307	39.6	15.5	177.0	1.2	3.0	0.0	V-Horn	PK	0.0	55.1	74.0	-18.9	11Mbps
7311.090	39.3	15.5	205.0	1.0	3.0	0.0	H-Horn	PK	0.0	54.8	74.0	-19.2	11Mbps
7311.983	38.2	15.5	192.0	1.2	3.0	0.0	V-Horn	PK	0.0	53.7	74.0	-20.3	1Mbps
4873.984	23.2	9.7	278.0	1.0	3.0	0.0	V-Horn	AV	0.0	32.9	54.0	-21.1	54Mbps
4873.392	23.1	9.7	69.0	1.0	3.0	0.0	H-Horn	AV	0.0	32.8	54.0	-21.2	54Mbps
7311.603	37.0	15.5	244.0	1.0	3.0	0.0	H-Horn	PK	0.0	52.5	74.0	-21.5	6Mbps
7310.350	36.8	15.5	148.0	1.0	3.0	0.0	V-Horn	PK	0.0	52.3	74.0	-21.7	36Mbps
7310.623	36.6	15.5	6.0	1.0	3.0	0.0	H-Horn	PK	0.0	52.1	74.0	-21.9	36Mbps
7311.130	36.6	15.5	211.0	3.0	3.0	0.0	V-Horn	PK	0.0	52.1	74.0	-21.9	6Mbps
7311.117	36.5	15.5	170.0	1.0	3.0	0.0	V-Horn	PK	0.0	52.0	74.0	-22.0	54Mbps

EUT: CK3x with DHIB and Dock	Work Order: INMC0479
Serial Number: None	Date: 08/22/08
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 46%
Project: None	Barometric Pres.: 30.03
Tested by: David Divergigelis	Power: Battery
	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2007	ANSI C63.4:2003, KDB No. 558074

TEST PARAMETERS
Antenna Height(s) (m) 1 - 4 Test Distance (m) 3

COMMENTS

CK3 SN:12410858052

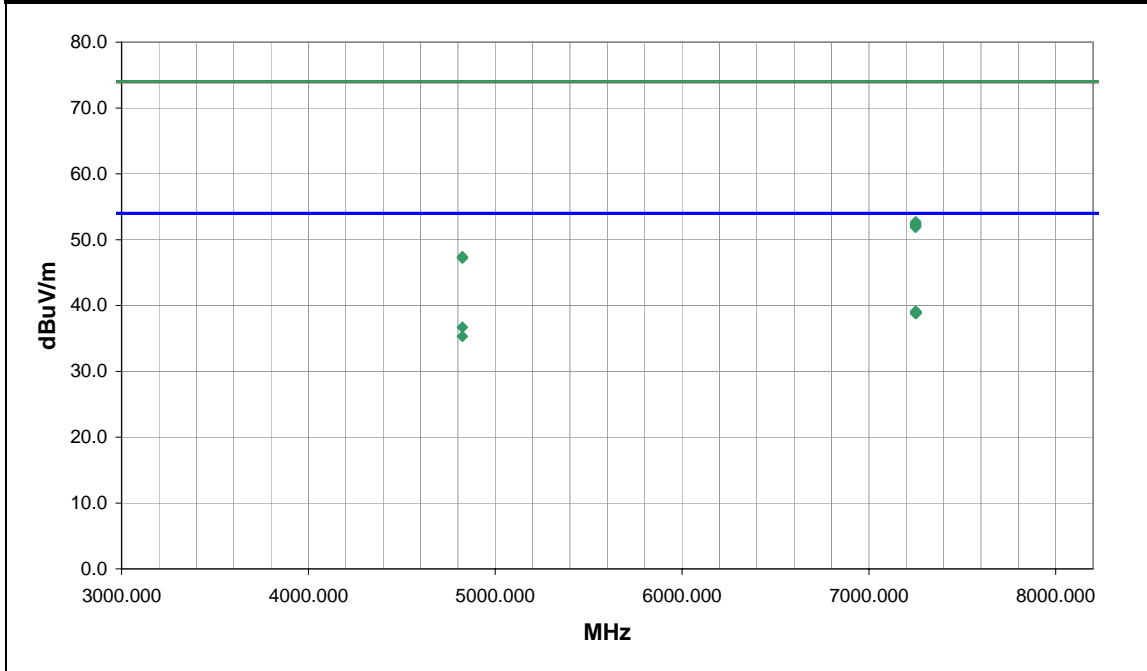
EUT OPERATING MODES

Continuous Tx, 802.11, low channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	15	Signature <i>A. N. Rife E.</i>
Configuration #	2	
Results	Pass	



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
7249.980	23.7	15.4	186.0	2.4	3.0	0.0	V-Horn	AV	0.0	39.1	54.0	-14.9	54Mbps
7251.473	23.7	15.4	92.0	2.6	3.0	0.0	H-Horn	AV	0.0	39.1	54.0	-14.9	36Mbps
7251.533	23.6	15.4	168.0	2.8	3.0	0.0	V-Horn	AV	0.0	39.0	54.0	-15.0	6Mbps
7250.820	23.7	15.2	210.0	2.6	3.0	0.0	H-Horn	AV	0.0	38.9	54.0	-15.1	6Mbps
7251.700	23.7	15.2	295.0	2.8	3.0	0.0	V-Horn	AV	0.0	38.9	54.0	-15.1	36Mbps
7250.630	23.6	15.2	154.0	2.3	3.0	0.0	H-Horn	AV	0.0	38.8	54.0	-15.2	54Mbps
7250.690	23.6	15.2	70.0	2.8	3.0	0.0	V-Horn	AV	0.0	38.8	54.0	-15.2	11Mbps
7251.485	23.6	15.2	162.0	2.8	3.0	0.0	V-Horn	AV	0.0	38.8	54.0	-15.2	1Mbps
7251.512	23.6	15.2	230.0	2.6	3.0	0.0	H-Horn	AV	0.0	38.8	54.0	-15.2	1Mbps
7251.797	23.6	15.2	233.0	2.6	3.0	0.0	H-Horn	AV	0.0	38.8	54.0	-15.2	11Mbps
4823.807	27.2	9.5	213.0	1.0	3.0	0.0	H-Horn	AV	0.0	36.7	54.0	-17.3	1Mbps
4823.871	25.8	9.5	300.0	1.0	3.0	0.0	V-Horn	AV	0.0	35.3	54.0	-18.7	1Mbps
7250.650	37.3	15.4	186.0	2.4	3.0	0.0	V-Horn	PK	0.0	52.7	74.0	-21.3	54Mbps
7249.607	37.0	15.4	210.0	2.6	3.0	0.0	H-Horn	PK	0.0	52.4	74.0	-21.6	6Mbps
7249.713	37.0	15.4	233.0	2.6	3.0	0.0	H-Horn	PK	0.0	52.4	74.0	-21.6	11Mbps
7249.967	37.0	15.4	230.0	2.6	3.0	0.0	H-Horn	PK	0.0	52.4	74.0	-21.6	1Mbps
7250.333	36.9	15.4	92.0	2.6	3.0	0.0	H-Horn	PK	0.0	52.3	74.0	-21.7	36Mbps
7249.590	36.8	15.4	154.0	2.3	3.0	0.0	H-Horn	PK	0.0	52.2	74.0	-21.8	54Mbps
7249.687	36.7	15.4	295.0	2.8	3.0	0.0	V-Horn	PK	0.0	52.1	74.0	-21.9	36Mbps
7250.360	36.6	15.4	168.0	2.8	3.0	0.0	V-Horn	PK	0.0	52.0	74.0	-22.0	6Mbps

EUT: CK3x with DHIB and Dock	Work Order: INMC0479
Serial Number: None	Date: 08/22/08
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 46%
Project: None	Barometric Pres.: 30.03
Tested by: David Divergigelis	Power: Battery
	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2007	ANSI C63.4:2003, KDB No. 558074

TEST PARAMETERS
Antenna Height(s) (m) 1 - 4 Test Distance (m) 3

COMMENTS

CK3 SN:12410858052

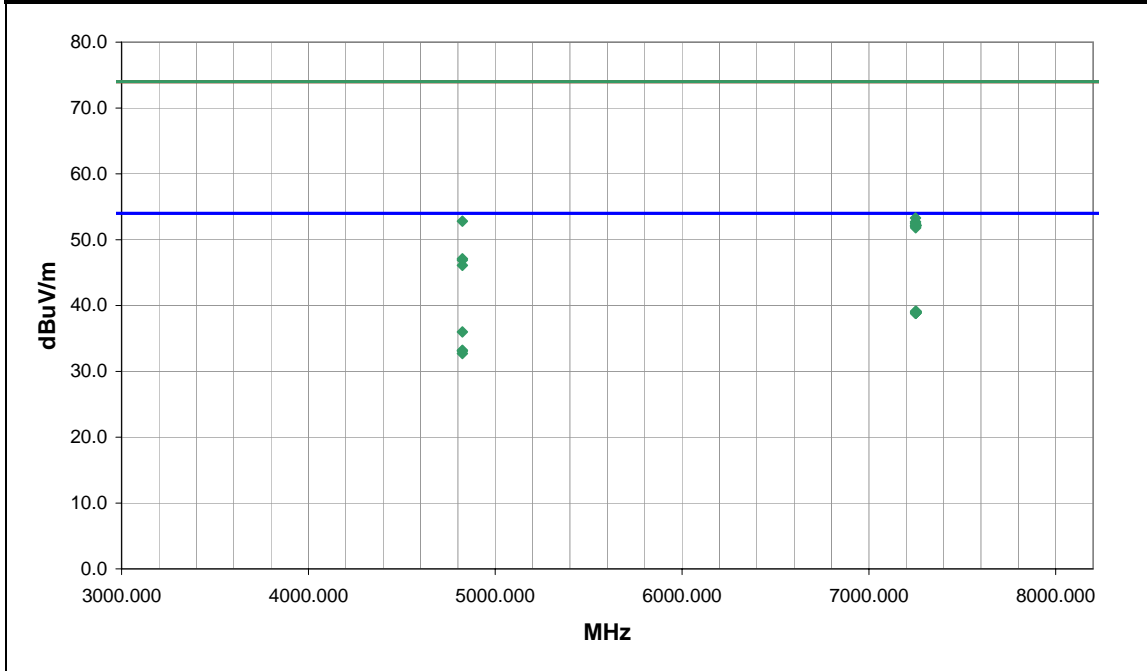
EUT OPERATING MODES

Continuous Tx, 802.11, low channel, auxiliary antenna

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	16	Signature <i>David Divergigelis</i>
Configuration #	2	
Results	Pass	



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
7249.977	23.7	15.4	309.0	1.4	3.0	0.0	H-Horn	AV	0.0	39.1	54.0	-14.9	6Mbps
7251.563	23.7	15.4	221.0	1.0	3.0	0.0	V-Horn	AV	0.0	39.1	54.0	-14.9	6Mbps
7251.600	23.7	15.4	231.0	2.1	3.0	0.0	H-Horn	AV	0.0	39.1	54.0	-14.9	54Mbps
7249.447	23.6	15.4	249.0	1.0	3.0	0.0	V-Horn	AV	0.0	39.0	54.0	-15.0	54Mbps
7250.837	23.7	15.2	-1.0	1.4	3.0	0.0	H-Horn	AV	0.0	38.9	54.0	-15.1	11Mbps
7251.180	23.6	15.3	102.0	2.1	3.0	0.0	H-Horn	AV	0.0	38.9	54.0	-15.1	36Mbps
7251.397	23.7	15.2	301.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.9	54.0	-15.1	36Mbps
7251.803	23.7	15.2	193.0	2.0	3.0	0.0	H-Horn	AV	0.0	38.9	54.0	-15.1	1Mbps
7250.060	23.6	15.2	19.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.8	54.0	-15.2	1Mbps
7250.370	23.6	15.2	282.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.8	54.0	-15.2	11Mbps
4823.840	26.5	9.5	224.0	1.0	3.0	0.0	H-Horn	AV	0.0	36.0	54.0	-18.0	11Mbps
7249.447	37.9	15.4	-1.0	1.4	3.0	0.0	H-Horn	PK	0.0	53.3	74.0	-20.7	11Mbps
4823.898	23.7	9.5	207.0	1.0	3.0	0.0	H-Horn	AV	0.0	33.2	54.0	-20.8	1Mbps
4824.005	23.6	9.5	228.0	2.2	3.0	0.0	V-Horn	AV	0.0	33.1	54.0	-20.9	11Mbps
4823.697	43.3	9.5	224.0	1.0	3.0	0.0	H-Horn	PK	0.0	52.8	74.0	-21.2	11Mbps
4824.263	23.2	9.5	111.0	1.8	3.0	0.0	V-Horn	AV	0.0	32.7	54.0	-21.3	1Mbps
7249.747	37.3	15.4	19.0	1.0	3.0	0.0	V-Horn	PK	0.0	52.7	74.0	-21.3	1Mbps
7249.130	37.1	15.4	301.0	1.0	3.0	0.0	V-Horn	PK	0.0	52.5	74.0	-21.5	36Mbps
7250.700	36.8	15.4	221.0	1.0	3.0	0.0	V-Horn	PK	0.0	52.2	74.0	-21.8	6Mbps
7250.707	36.8	15.4	249.0	1.0	3.0	0.0	V-Horn	PK	0.0	52.2	74.0	-21.8	54Mbps

EUT: CK3x with DHIB and Dock	Work Order: INMC0479
Serial Number: None	Date: 08/25/08
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 46%
Project: None	Barometric Pres.: 30.03
Tested by: Jennifer Herrett	Power: Battery
	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2007	ANSI C63.4:2003, KDB No. 558074

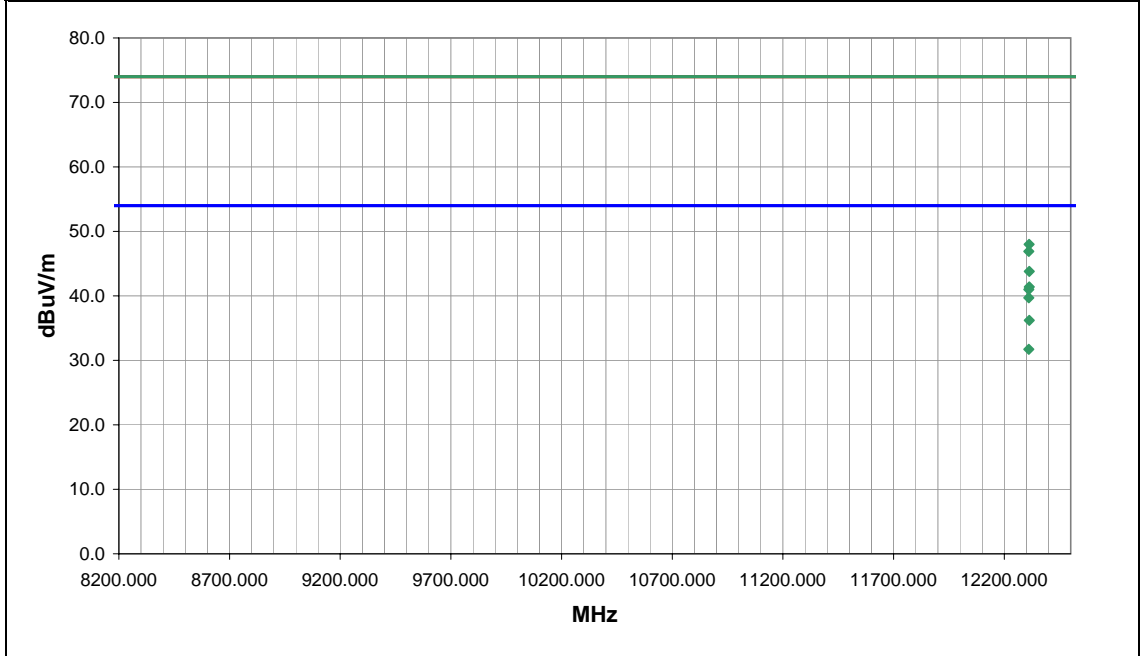
TEST PARAMETERS	
Antenna Height(s) (m) 1 - 4	Test Distance (m) 3

COMMENTS
CK3 SN:12410858052

EUT OPERATING MODES
Continuous Tx, 802.11, high channel

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	17	 Signature
Configuration #	2	
Results	Pass	



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
12312.660	44.8	-3.4	160.0	1.0	3.0	0.0	H-Horn	AV	0.0	41.4	54.0	-12.6	1Mbps
12310.600	43.1	-3.4	225.0	1.0	3.0	0.0	V-Horn	AV	0.0	39.7	54.0	-14.3	1Mbps
12312.620	39.5	-3.3	154.0	1.0	3.0	0.0	H-Horn	AV	0.0	36.2	54.0	-17.8	1Mbps, Ant 2
12310.760	35.1	-3.4	170.0	1.0	3.0	0.0	V-Horn	AV	0.0	31.7	54.0	-22.3	1Mbps, Ant 2
12312.260	51.4	-3.4	160.0	1.0	3.0	0.0	H-Horn	PK	0.0	48.0	74.0	-26.0	1Mbps
12310.880	50.3	-3.4	225.0	1.0	3.0	0.0	V-Horn	PK	0.0	46.9	74.0	-27.1	1Mbps
12313.060	47.2	-3.4	154.0	1.0	3.0	0.0	H-Horn	PK	0.0	43.8	74.0	-30.2	1Mbps, Ant 2
12310.880	44.4	-3.4	170.0	1.0	3.0	0.0	V-Horn	PK	0.0	41.0	74.0	-33.0	1Mbps, Ant 2

EUT: CK3x with DHIB and Dock	Work Order: INMC0479
Serial Number: None	Date: 08/25/08
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 46%
Project: None	Barometric Pres.: 30.03
Tested by: Jennifer Herrett	Power: Battery
	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2007	ANSI C63.4:2003, KDB No. 558074

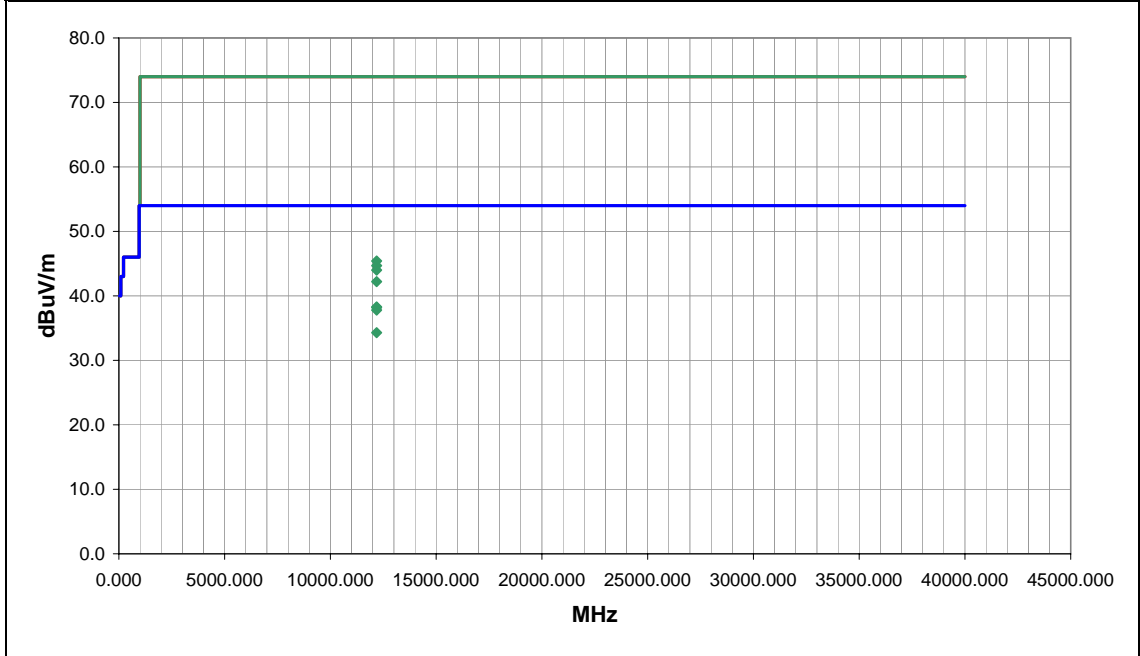
TEST PARAMETERS	
Antenna Height(s) (m) 1 - 4	Test Distance (m) 3

COMMENTS
CK3 SN:12410858052

EUT OPERATING MODES
Continuous Tx, 802.11, mid channel

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	18	<i>Jennifer Herrett</i> Signature
Configuration #	2	
Results	Pass	



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
12187.350	42.3	-4.0	165.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.3	54.0	-15.7	1Mbps
12185.660	42.3	-4.1	228.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.2	54.0	-15.8	1Mbps
12187.660	41.9	-4.1	207.0	1.0	3.0	0.0	H-Horn	AV	0.0	37.8	54.0	-16.2	1Mbps, Ant 2
12187.690	38.3	-4.0	173.0	1.0	3.0	0.0	V-Horn	AV	0.0	34.3	54.0	-19.7	1Mbps, Ant 2
12187.760	49.5	-4.1	165.0	1.0	3.0	0.0	H-Horn	PK	0.0	45.4	74.0	-28.6	1Mbps
12185.910	48.8	-4.1	228.0	1.0	3.0	0.0	V-Horn	PK	0.0	44.7	74.0	-29.3	1Mbps
12184.060	48.1	-4.1	207.0	1.0	3.0	0.0	H-Horn	PK	0.0	44.0	74.0	-30.0	1Mbps, Ant 2
12187.710	46.3	-4.1	173.0	1.0	3.0	0.0	V-Horn	PK	0.0	42.2	74.0	-31.8	1Mbps, Ant 2

EUT: CK3x with DHIB and Dock	Work Order: INMC0479
Serial Number: None	Date: 08/25/08
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 46%
Project: None	Barometric Pres.: 30.03
Tested by: Jennifer Herrett	Power: Battery
	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2007	ANSI C63.4:2003, KDB No. 558074

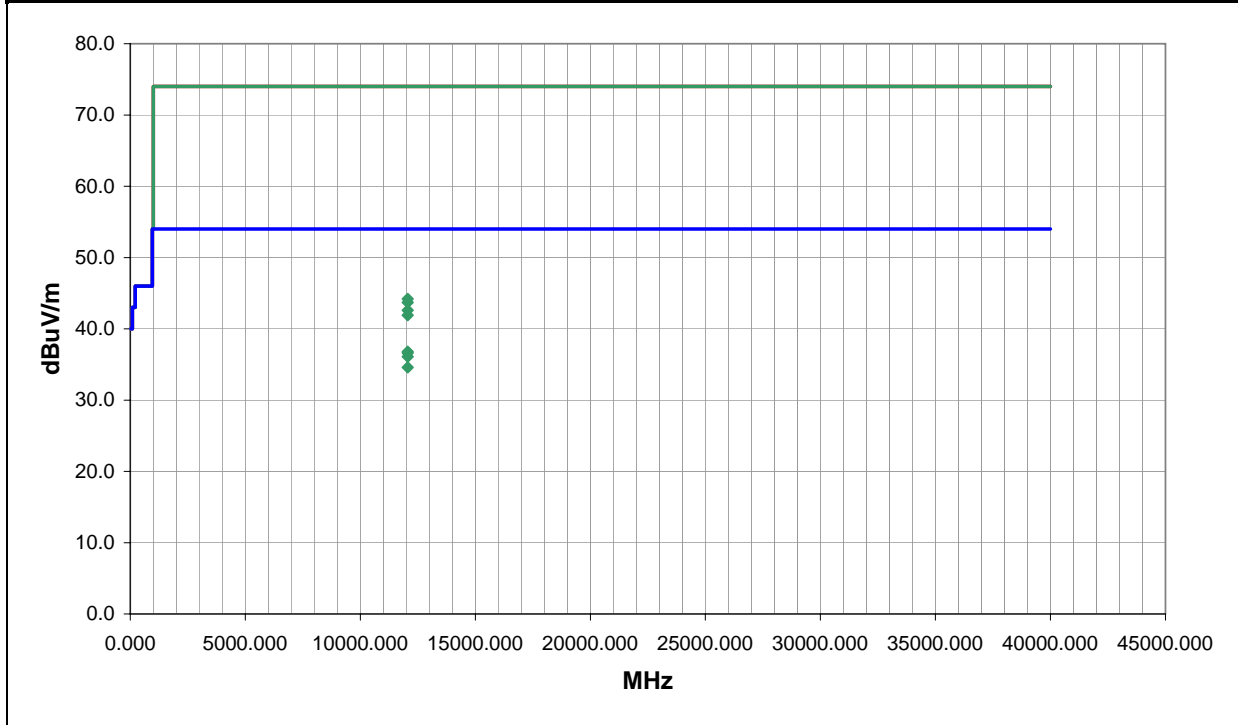
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
CK3 SN:12410858052

EUT OPERATING MODES
Continuous Tx, 802.11, low channel

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	19	 Signature
Configuration #	2	
Results	Pass	



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)
12062.580	41.7	-4.9	163.0	1.0	3.0	0.0	H-Horn	AV	0.0	36.8	54.0	-17.2
12062.560	41.5	-4.9	127.0	1.0	3.0	0.0	H-Horn	AV	0.0	36.6	54.0	-17.4
12057.070	41.0	-4.9	138.0	1.0	3.0	0.0	V-Horn	AV	0.0	36.1	54.0	-17.9
12062.610	39.5	-4.9	223.0	1.0	3.0	0.0	V-Horn	AV	0.0	34.6	54.0	-19.4
12059.560	49.1	-4.9	163.0	1.0	3.0	0.0	H-Horn	PK	0.0	44.2	74.0	-29.8
12062.360	48.6	-4.9	127.0	1.0	3.0	0.0	H-Horn	PK	0.0	43.7	74.0	-30.3
12057.140	47.5	-4.9	138.0	1.0	3.0	0.0	V-Horn	PK	0.0	42.6	74.0	-31.4
12062.440	46.8	-4.9	223.0	1.0	3.0	0.0	V-Horn	PK	0.0	41.9	74.0	-32.1

EUT: CK3x with DHIB and Dock	Work Order: INMC0479
Serial Number: None	Date: 08/25/08
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 46%
Project: None	Barometric Pres.: 30.03
Tested by: Jennifer Herrett	Power: Battery
	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2007	ANSI C63.4:2003, KDB No. 558074

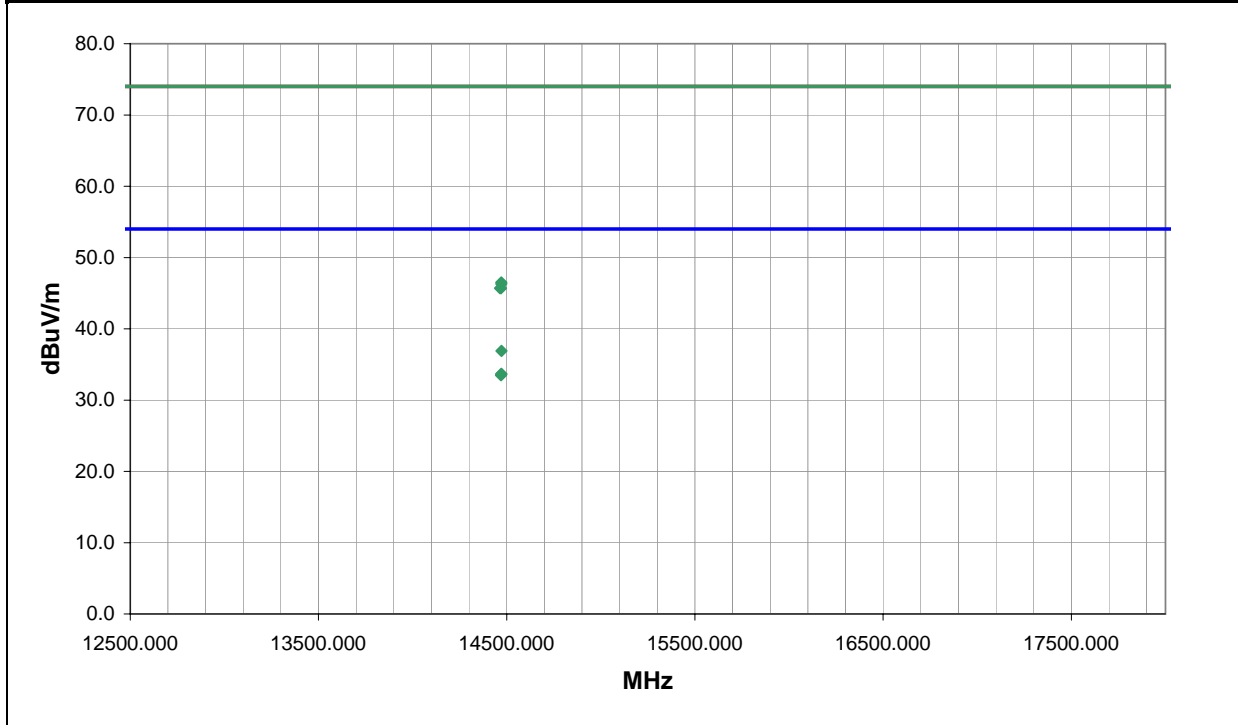
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
CK3 SN:12410858052

EUT OPERATING MODES
Continuous Tx, 802.11, low channel

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	20	<i>Jennifer Herrett</i> Signature
Configuration #	2	
Results	Pass	



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)
14471.930	29.6	7.3	154.0	1.0	3.0	0.0	H-Horn	AV	0.0	36.9	54.0	-17.1
14471.710	26.4	7.3	116.0	1.0	3.0	0.0	H-Horn	AV	0.0	33.7	54.0	-20.3
14471.560	26.3	7.3	312.0	1.1	3.0	0.0	V-Horn	AV	0.0	33.6	54.0	-20.4
14469.350	26.2	7.3	27.0	1.1	3.0	0.0	V-Horn	AV	0.0	33.5	54.0	-20.5
14471.750	39.2	7.3	27.0	1.1	3.0	0.0	V-Horn	PK	0.0	46.5	74.0	-27.5
14471.620	39.0	7.3	154.0	1.0	3.0	0.0	H-Horn	PK	0.0	46.3	74.0	-27.7
14464.820	38.4	7.3	312.0	1.1	3.0	0.0	V-Horn	PK	0.0	45.7	74.0	-28.3
14469.350	38.4	7.3	116.0	1.0	3.0	0.0	H-Horn	PK	0.0	45.7	74.0	-28.3









Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

MODES OF OPERATION

GFSK modulation, DH5 rate

pi/4-QPSK modulation, 2DH5 rate

8-DPSK modulation, 3DH5 rate

CHANNELS TESTED

Low channel, 2402 MHz

Mid channel, 2439 MHz

High channel, 2480 MHz

POWER SETTINGS INVESTIGATED

Battery, 3.7 VDC

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	25 GHz
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TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4446A	AAT	12/7/2007	13
Pre-Amplifier	Miteq	AM-1616-1000	AOL	5/19/2008	13
Antenna, Biconilog	EMCO	3141	AXE	1/15/2008	24
EV01 Cables		Bilog Cables	EVA	5/19/2008	13
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	5/19/2008	13
Antenna, Horn	EMCO	3115	AHC	8/12/2008	24
EV01 Cables		Double Ridge Horn Cables	EVB	5/19/2008	13
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	6/30/2008	13
Antenna, Horn	ETS	3160-07	AHU	NCR	0
EV01 Cables		Standard Gain Horns Cables	EVF	10/23/2007	13
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVD	6/30/2008	13
Antenna, Horn	ETS	3160-08	AHV	NCR	0
High Pass Filter	Micro-Tronics	HPM50111	HFO	5/21/2008	13
Spectrum Analyzer	Agilent	E4446A	AAV	12/18/2007	12
Antenna, Horn	ETS	3115	AIB	8/25/2008	24
EV12 Cables		Double Ridge Horn Cables	EVT	6/17/2008	13
Pre-Amplifier	Miteq	AMF-3D00100800-32-13P	AVF	6/17/2008	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The highest gain of each type of antenna to be used with the EUT was tested. The EUT was configured for low, mid, and high band transmit frequencies. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and the EUT antenna in three orthogonal axis, and adjusting measurement antenna height and polarization, and manipulating the EUT antenna in 3 orthogonal planes (per ANSI C63.4:2003). A preamp and high pass filter were used for this test in order to provide sufficient measurement sensitivity.

EMC RADIATED SPURIOUS EMISSIONS

EUT: CK3x with DHIB		Work Order: INMC0479
Serial Number: None		Date: 08/29/08
Customer: Intermec Technologies Corporation		Temperature: 23
Attendees: None		Humidity: 46%
Project: None		Barometric Pres.: 30.03
Tested by: David Divergigelis	Power: Battery	Job Site: EV01

TEST SPECIFICATIONS		Test Method
FCC 15.247 (FHSS):2007		ANSI C63.4:2003 KDB No. 558074

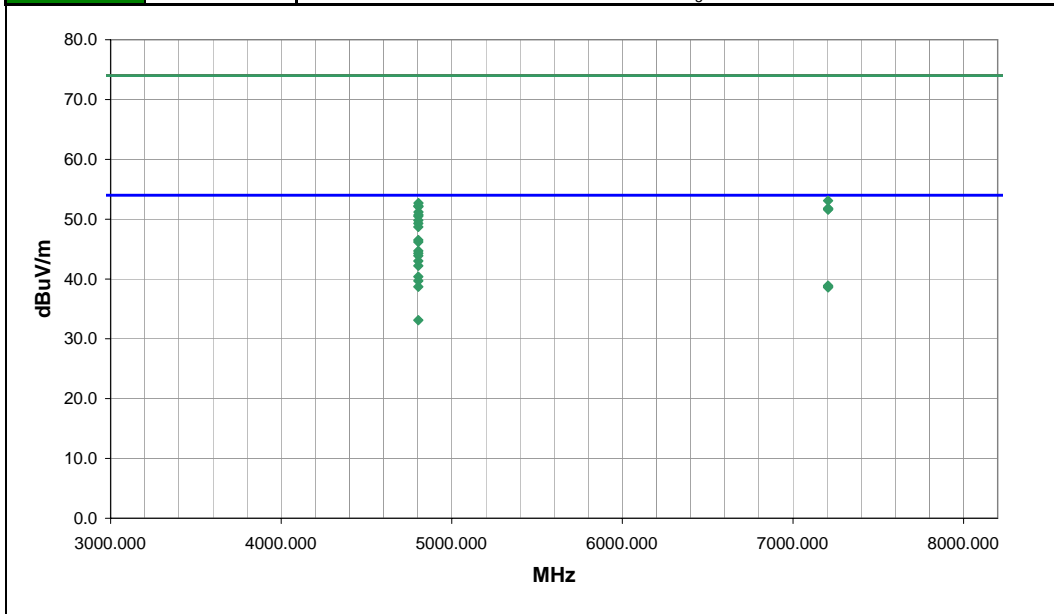
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
CK3 SN:12410858052

EUT OPERATING MODES
TX Bluetooth, low channel.

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	24	 Signature
Configuration #	1	
Results	Pass	



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
4804.017	37.0	9.5	129.0	1.0	3.0	0.0	V-Horn	AV	0.0	46.5	54.0	-7.5	EUT Vertical, GFSK
4803.998	35.2	9.5	170.0	1.0	3.0	0.0	H-Horn	AV	0.0	44.7	54.0	-9.3	EUT on side, GFSK
4803.978	34.8	9.5	194.0	1.0	3.0	0.0	V-Horn	AV	0.0	44.3	54.0	-9.7	EUT on side, GFSK
4803.929	34.4	9.5	113.0	1.0	3.0	0.0	V-Horn	AV	0.0	43.9	54.0	-10.1	EUT Vertical, QPSK
4804.031	33.5	9.5	131.0	1.0	3.0	0.0	V-Horn	AV	0.0	43.0	54.0	-11.0	EUT Vertical, 8 - DPSK
4803.898	32.7	9.5	136.0	1.0	3.0	0.0	H-Horn	AV	0.0	42.2	54.0	-11.8	EUT Vertical, GFSK
4803.989	30.9	9.5	244.0	1.0	3.0	0.0	H-Horn	AV	0.0	40.4	54.0	-13.6	EUT on side, 8 - DPSK
4803.906	30.2	9.5	203.0	1.0	3.0	0.0	H-Horn	AV	0.0	39.7	54.0	-14.3	EUT on side, QPSK
7205.858	23.8	15.1	106.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.9	54.0	-15.1	EUT on side, QPSK
4803.998	29.2	9.5	139.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.7	54.0	-15.3	EUT Horizontal GFSK
7206.018	23.6	15.1	134.0	3.0	3.0	0.0	V-Horn	AV	0.0	38.7	54.0	-15.3	EUT Vertical, QPSK
7206.064	23.6	15.1	107.0	3.0	3.0	0.0	V-Horn	AV	0.0	38.7	54.0	-15.3	EUT Vertical, 8 - DPSK
7205.654	23.5	15.1	314.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.6	54.0	-15.4	EUT on side, 8 - DPSK
4804.060	23.6	9.5	0.0	1.0	3.0	0.0	H-Horn	AV	0.0	33.1	54.0	-20.9	EUT Horizontal GFSK
7205.907	38.0	15.1	106.0	1.0	3.0	0.0	H-Horn	PK	0.0	53.1	74.0	-20.9	EUT on side, QPSK
4804.162	43.2	9.5	113.0	1.0	3.0	0.0	V-Horn	PK	0.0	52.7	74.0	-21.3	EUT Vertical, QPSK
4803.750	42.7	9.5	131.0	1.0	3.0	0.0	V-Horn	PK	0.0	52.2	74.0	-21.8	EUT Vertical, 8 - DPSK
4804.483	42.6	9.5	129.0	1.0	3.0	0.0	V-Horn	PK	0.0	52.1	74.0	-21.9	EUT Vertical, GFSK
7206.007	36.7	15.1	314.0	1.0	3.0	0.0	H-Horn	PK	0.0	51.8	74.0	-22.2	EUT on side, 8 - DPSK
7206.427	36.6	15.1	107.0	3.0	3.0	0.0	V-Horn	PK	0.0	51.7	74.0	-22.3	EUT Vertical, 8 - DPSK

EMC RADIATED SPURIOUS EMISSIONS

EMC

EUT: CK3x with DHIB	Work Order: INMC0479
Serial Number: None	Date: 08/29/08
Customer: Intermec Technologies Corporation	Temperature: 23
Attendees: None	Humidity: 46%
Project: None	Barometric Pres.: 30.03
Tested by: David Divergigelis	Power: Battery
	Job Site: EV01

TEST SPECIFICATIONS		Test Method
FCC 15.247 (FHSS):2007		ANSI C63.4:2003 KDB No. 558074

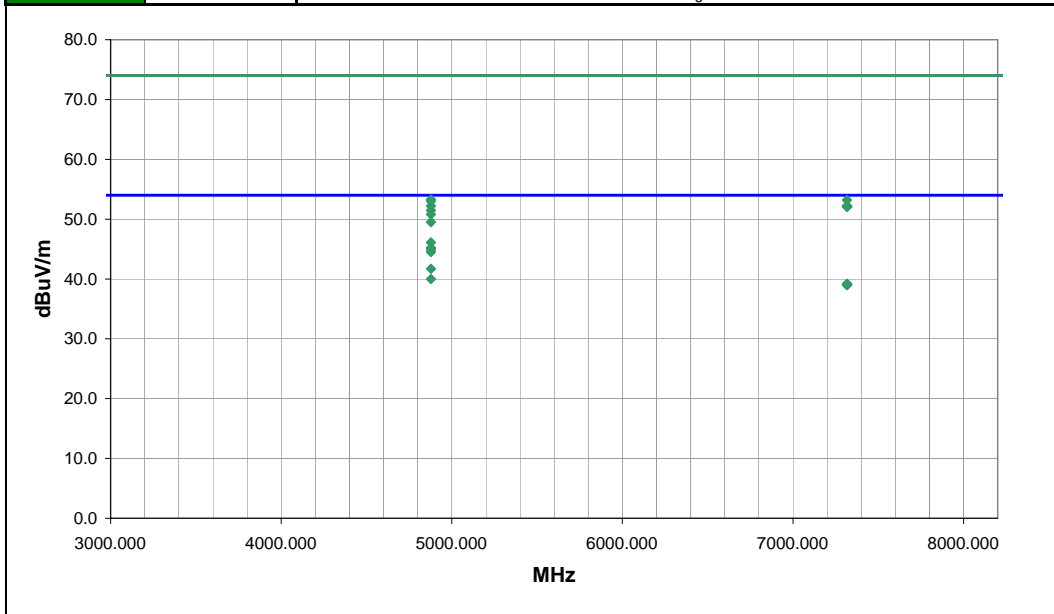
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
CK3 SN:12410858052

EUT OPERATING MODES
TX Bluetooth, Mid channel.

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	25	Signature <i>D. Divergigelis</i>
Configuration #	1	
Results	Pass	



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
4878.030	36.3	9.8	249.0	1.0	3.0	0.0	V-Horn	AV	0.0	46.1	54.0	-7.9	EUT Vertical, GFSK
4878.006	35.4	9.8	221.0	1.0	3.0	0.0	V-Horn	AV	0.0	45.2	54.0	-8.8	EUT Vertical, QPSK
4877.997	35.1	9.8	221.0	1.0	3.0	0.0	V-Horn	AV	0.0	44.9	54.0	-9.1	EUT Vertical, 8 - DPSK
4878.003	34.7	9.8	246.0	1.0	3.0	0.0	H-Horn	AV	0.0	44.5	54.0	-9.5	EUT on side, GFSK
4878.024	31.9	9.8	235.0	1.0	3.0	0.0	H-Horn	AV	0.0	41.7	54.0	-12.3	EUT on side, 8 - DPSK
4877.994	30.2	9.8	215.0	1.0	3.0	0.0	H-Horn	AV	0.0	40.0	54.0	-14.0	EUT on side, QPSK
7317.098	23.6	15.6	161.0	3.4	3.0	0.0	V-Horn	AV	0.0	39.2	54.0	-14.8	EUT Vertical, QPSK
7316.544	23.6	15.5	241.0	3.4	3.0	0.0	V-Horn	AV	0.0	39.1	54.0	-14.9	EUT Vertical, 8 - DPSK
7316.922	23.5	15.6	233.0	2.6	3.0	0.0	H-Horn	AV	0.0	39.1	54.0	-14.9	EUT on side, QPSK
7315.520	23.5	15.5	304.0	1.0	3.0	0.0	V-Horn	AV	0.0	39.0	54.0	-15.0	EUT Vertical, GFSK
7317.156	23.5	15.5	40.0	2.6	3.0	0.0	H-Horn	AV	0.0	39.0	54.0	-15.0	EUT on side, 8 - DPSK
7317.507	23.5	15.5	111.0	2.6	3.0	0.0	H-Horn	AV	0.0	39.0	54.0	-15.0	EUT on side, GFSK
4877.680	43.5	9.8	221.0	1.0	3.0	0.0	V-Horn	PK	0.0	53.3	74.0	-20.7	EUT Vertical, QPSK
7316.040	37.6	15.6	40.0	2.6	3.0	0.0	H-Horn	PK	0.0	53.2	74.0	-20.8	EUT on side, 8 - DPSK
4878.053	43.2	9.8	221.0	1.0	3.0	0.0	V-Horn	PK	0.0	53.0	74.0	-21.0	EUT Vertical, 8 - DPSK
4878.028	42.4	9.8	249.0	1.0	3.0	0.0	V-Horn	PK	0.0	52.2	74.0	-21.8	EUT Vertical, GFSK
7315.913	36.6	15.6	304.0	1.0	3.0	0.0	V-Horn	PK	0.0	52.2	74.0	-21.8	EUT Vertical, GFSK
7317.853	36.6	15.6	161.0	3.4	3.0	0.0	V-Horn	PK	0.0	52.2	74.0	-21.8	EUT Vertical, QPSK
7316.193	36.5	15.6	111.0	2.6	3.0	0.0	H-Horn	PK	0.0	52.1	74.0	-21.9	EUT on side, GFSK
7316.500	36.5	15.6	241.0	3.4	3.0	0.0	V-Horn	PK	0.0	52.1	74.0	-21.9	EUT Vertical, 8 - DPSK

RADIATED SPURIOUS EMISSIONS

EMC

EUT: CK3x with DHIB		Work Order: INMC0479	
Serial Number: None		Date: 08/29/08	
Customer: Intermec Technologies Corporation		Temperature: 23	
Attendees: None		Humidity: 46%	
Project: None		Barometric Pres.: 30.03	
Tested by: David Divergigelis		Power: Battery	
		Job Site: EV01	

TEST SPECIFICATIONS	Test Method
FCC 15.247 (FHSS):2007	ANSI C63.4:2003 KDB No. 558074

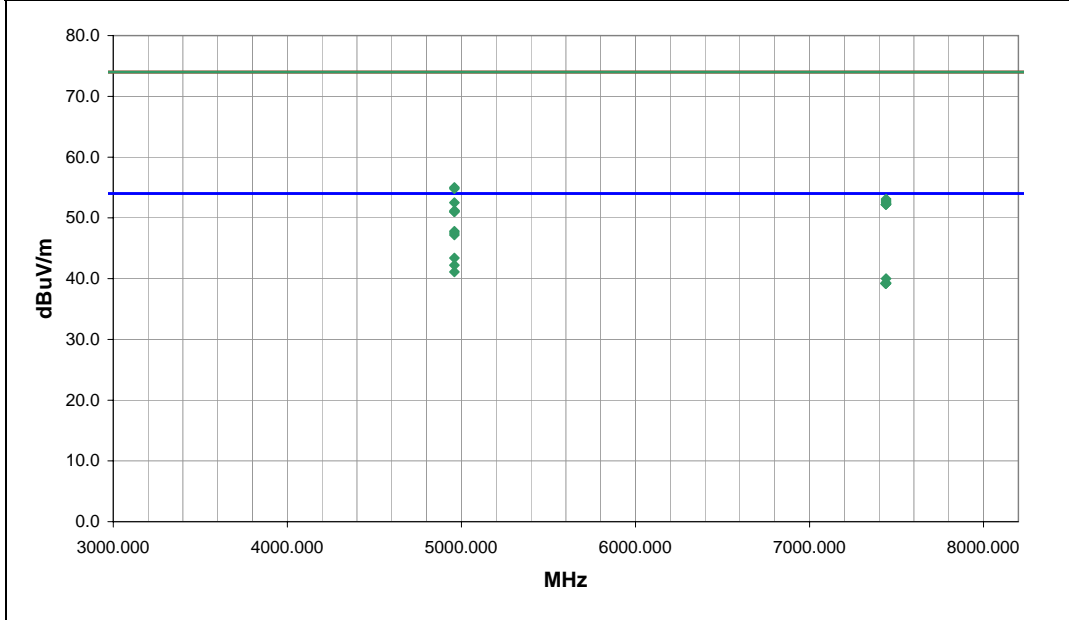
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
CK3 SN:12410858052

EUT OPERATING MODES
TX Bluetooth, Mid channel.

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	26	 Signature
Configuration #	1	
Results	Pass	



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
4959.923	37.7	10.1	212.0	1.0	3.0	0.0	V-Horn	AV	0.0	47.8	54.0	-6.2	EUT Vertical, GFSK
4960.014	37.4	10.1	221.0	1.0	3.0	0.0	V-Horn	AV	0.0	47.5	54.0	-6.5	EUT Vertical, QPSK
4959.920	37.1	10.1	220.0	1.0	3.0	0.0	V-Horn	AV	0.0	47.2	54.0	-6.8	EUT on side, GFSK
4959.916	33.3	10.1	159.0	1.3	3.0	0.0	H-Horn	AV	0.0	43.4	54.0	-10.6	EUT on side, GFSK
4960.000	32.1	10.1	137.0	1.0	3.0	0.0	H-Horn	AV	0.0	42.2	54.0	-11.8	EUT on side, GFSK
4960.030	31.0	10.1	108.0	1.0	3.0	0.0	H-Horn	AV	0.0	41.1	54.0	-12.9	EUT on side, QPSK
7439.872	24.2	15.8	168.0	1.0	3.0	0.0	V-Horn	AV	0.0	40.0	54.0	-14.0	EUT on side, QPSK
7439.979	23.5	15.8	252.0	1.0	3.0	0.0	V-Horn	AV	0.0	39.3	54.0	-14.7	EUT Vertical, GFSK
7436.660	23.4	15.8	50.0	3.3	3.0	0.0	H-Horn	AV	0.0	39.2	54.0	-14.8	EUT on side, QPSK
7436.848	23.4	15.8	186.0	3.2	3.0	0.0	H-Horn	AV	0.0	39.2	54.0	-14.8	EUT on side, QPSK
7438.293	23.4	15.8	296.0	1.0	3.0	0.0	V-Horn	AV	0.0	39.2	54.0	-14.8	EUT Vertical, QPSK
7439.445	23.4	15.8	148.0	1.0	3.0	0.0	H-Horn	AV	0.0	39.2	54.0	-14.8	EUT on side, GFSK
4960.013	44.9	10.1	221.0	1.0	3.0	0.0	V-Horn	PK	0.0	55.0	74.0	-19.0	EUT Vertical, QPSK
4959.565	44.7	10.1	220.0	1.0	3.0	0.0	V-Horn	PK	0.0	54.8	74.0	-19.2	EUT Vertical, QPSK
7439.587	37.3	15.8	252.0	1.0	3.0	0.0	V-Horn	PK	0.0	53.1	74.0	-20.9	EUT Vertical, GFSK
7439.748	37.0	15.8	148.0	1.0	3.0	0.0	H-Horn	PK	0.0	52.8	74.0	-21.2	EUT on side, GFSK
7440.267	36.8	15.8	168.0	1.0	3.0	0.0	V-Horn	PK	0.0	52.6	74.0	-21.4	EUT on side, GFSK
4959.963	42.4	10.1	212.0	1.0	3.0	0.0	V-Horn	PK	0.0	52.5	74.0	-21.5	EUT Vertical, GFSK
7440.767	36.5	15.8	186.0	3.2	3.0	0.0	H-Horn	PK	0.0	52.3	74.0	-21.7	EUT on side, GFSK
7438.460	36.4	15.8	296.0	1.0	3.0	0.0	V-Horn	PK	0.0	52.2	74.0	-21.8	EUT Vertical, QPSK

EUT: CK3x with DHIB	Work Order: INMC0479
Serial Number: None	Date: 09/02/08
Customer: Intermec Technologies Corporation	Temperature: 21
Attendees: None	Humidity: 40%
Project: None	Barometric Pres.: 30.22
Tested by: Jennifer Herrett	Power: Battery
	Job Site: EV01

TEST SPECIFICATIONS

FCC 15.247 (FHSS):2007	Test Method
	ANSI C63.4:2003, KDB No. 558074

TEST PARAMETERS

Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
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COMMENTS

CK3 SN:12410858052

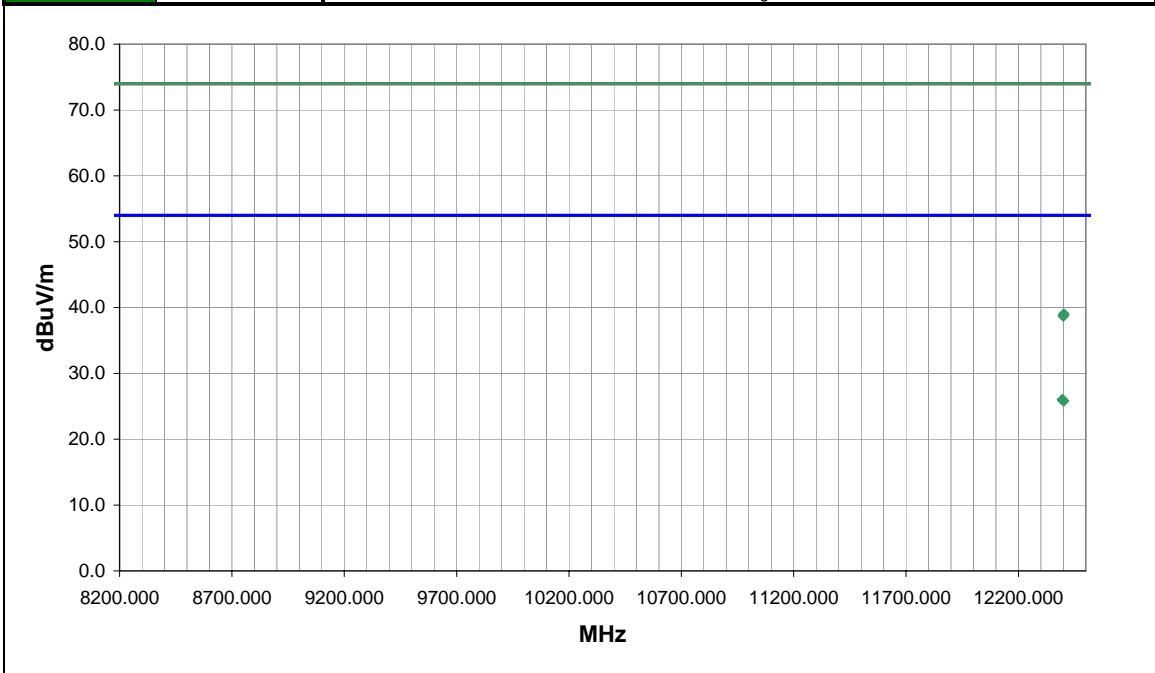
EUT OPERATING MODES

TX Bluetooth, High channel.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	27	<i>Jennifer Herrett</i> Signature
Configuration #	1	
Results	Pass	



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
12395.340	28.8	-2.8	239.0	1.0	3.0	0.0	V-Horn	AV	0.0	26.0	54.0	-28.0	GFSK
12401.010	28.6	-2.8	58.0	1.0	3.0	0.0	H-Horn	AV	0.0	25.8	54.0	-28.2	GFSK
12402.360	41.8	-2.8	239.0	1.0	3.0	0.0	V-Horn	PK	0.0	39.0	74.0	-35.0	GFSK
12399.450	41.5	-2.8	58.0	1.0	3.0	0.0	H-Horn	PK	0.0	38.7	74.0	-35.3	GFSK

EUT: CK3x with DHIB	Work Order: INMC0479
Serial Number: None	Date: 09/02/08
Customer: Intermec Technologies Corporation	Temperature: 22
Attendees: None	Humidity: 40%
Project: None	Barometric Pres.: 30.2
Tested by: Jennifer Herrett	Power: Battery
	Job Site: EV01

TEST SPECIFICATIONS

FCC 15.247 (FHSS):2007	Test Method
	ANSI C63.4:2003, KDB No. 558074

TEST PARAMETERS

Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
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COMMENTS

CK3 SN:12410858052

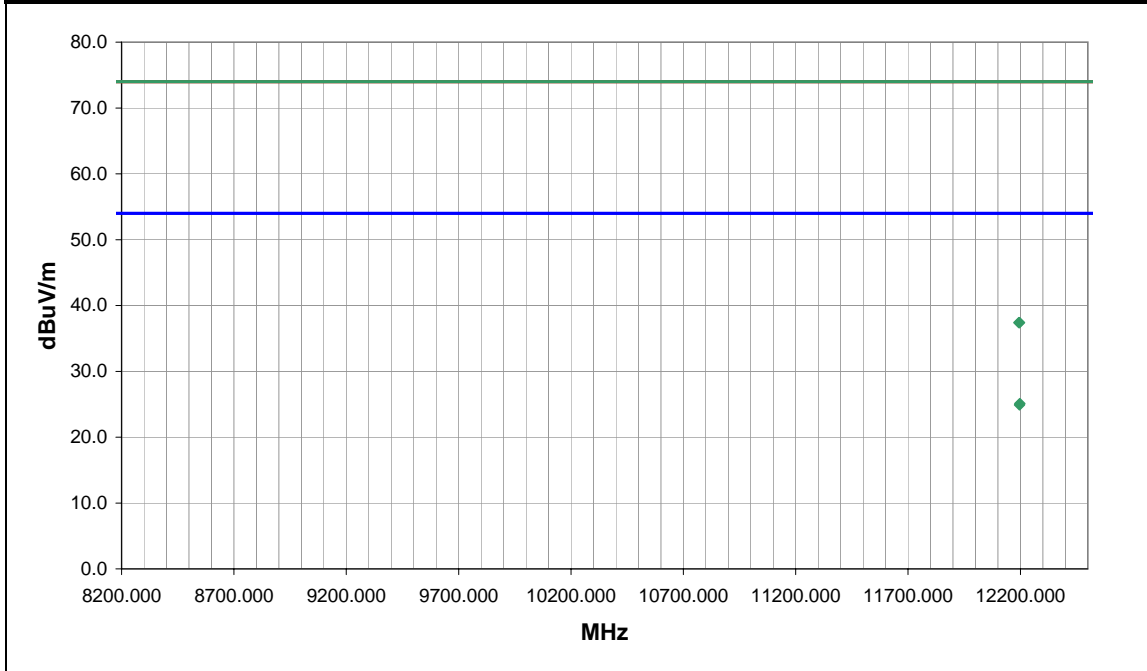
EUT OPERATING MODES

TX Bluetooth, Mid channel.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	28	 Signature
Configuration #	1	
Results	Pass	



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
12197.140	29.1	-4.0	61.0	1.0	3.0	0.0	V-Horn	AV	0.0	25.1	54.0	-28.9	GFSK
12196.270	28.9	-4.0	199.0	1.0	3.0	0.0	H-Horn	AV	0.0	24.9	54.0	-29.1	GFSK
12193.330	41.4	-4.0	61.0	1.0	3.0	0.0	V-Horn	PK	0.0	37.4	74.0	-36.6	GFSK
12195.830	41.4	-4.0	199.0	1.0	3.0	0.0	H-Horn	PK	0.0	37.4	74.0	-36.6	GFSK

EUT: CK3x with DHIB	Work Order: INMC0479
Serial Number: None	Date: 09/02/08
Customer: Intermec Technologies Corporation	Temperature: 22
Attendees: None	Humidity: 40%
Project: None	Barometric Pres.: 2003
Tested by: Jennifer Herrett	Power: Battery
	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (FHSS):2007	ANSI C63.4:2003, KDB No. 558074

TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	0

COMMENTS

CK3 SN:12410858052

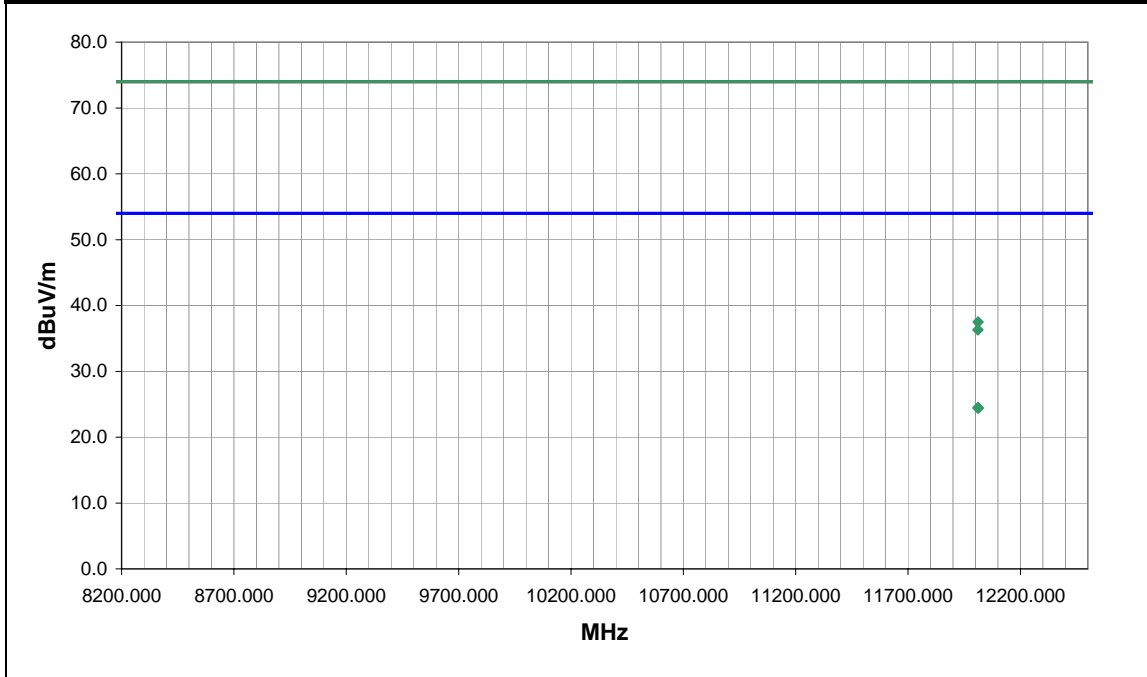
EUT OPERATING MODES

TX Bluetooth, Low channel.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	29	<i>Jennifer Herrett</i> Signature
Configuration #	1	
Results	Pass	



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
12010.600	29.7	-5.2	152.0	1.0	0.0	0.0	V-Horn	AV	0.0	24.5	54.0	-29.5	GFSK
12011.900	29.6	-5.2	56.0	1.0	0.0	0.0	H-Horn	AV	0.0	24.4	54.0	-29.6	GFSK
12011.670	42.7	-5.2	152.0	1.0	0.0	0.0	V-Horn	PK	0.0	37.5	74.0	-36.5	GFSK
12010.900	41.5	-5.2	56.0	1.0	0.0	0.0	H-Horn	PK	0.0	36.3	74.0	-37.7	GFSK

RADIATED SPURIOUS EMISSIONS

EMC

EUT: CK3x with DHIB	Work Order: INMC0479
Serial Number: None	Date: 09/02/08
Customer: Intermec Technologies Corporation	Temperature: 21.3 °C
Attendees: None	Humidity: 41%
Project: None	Barometric Pres.: 1022.9mb
Tested by: Dan Haas	Power: Battery
	Job Site: EV11

TEST SPECIFICATIONS	Test Method
FCC 15.247 (FHSS):2007	ANSI C63.4:2003, KDB No. 558074

TEST PARAMETERS	
Antenna Height(s) (m) 1 - 4	Test Distance (m) 3

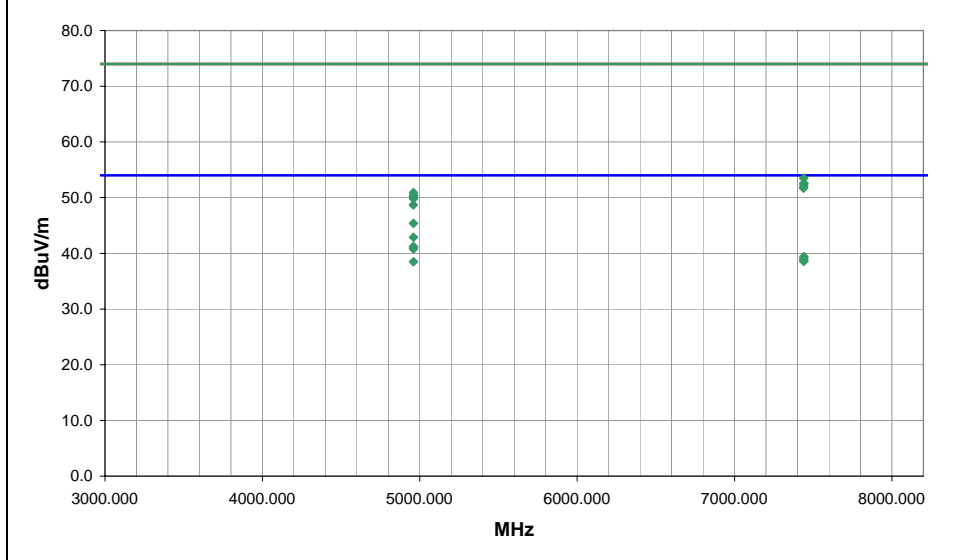
COMMENTS
CK3 SN:12410858052. Single Docking station.

EUT OPERATING MODES
Continuous Tx, Bluetooth, High Channel

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	7
Configuration #	2
Results	Pass

Signature 



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
4960.025	38.8	6.6	200.0	1.0	3.0	0.0	V-Horn	AV	0.0	45.4	54.0	-8.6	High Channel, GFSK-DH5 data rate
4960.020	36.3	6.6	161.0	1.0	3.0	0.0	H-Horn	AV	0.0	42.9	54.0	-11.1	High Channel, GFSK-DH5 data rate
4959.990	34.6	6.6	126.0	1.0	3.0	0.0	H-Horn	AV	0.0	41.2	54.0	-12.8	High Channel, 8-DPSK-3-DH5 data rate
4960.030	34.6	6.6	122.0	1.0	3.0	0.0	H-Horn	AV	0.0	41.2	54.0	-12.8	High Channel, QPSK-2-DH5 data rate
4960.000	34.2	6.6	202.0	1.0	3.0	0.0	V-Horn	AV	0.0	40.8	54.0	-13.2	High Channel, 8-DPSK-3-DH5 data rate
7440.205	26.5	12.9	190.0	1.0	3.0	0.0	V-Horn	AV	0.0	39.4	54.0	-14.6	High Channel, 8-DPSK-3-DH5 data rate
7439.970	26.2	12.9	264.0	1.0	3.0	0.0	H-Horn	AV	0.0	39.1	54.0	-14.9	High Channel, 8-DPSK-3-DH5 data rate
7440.040	26.2	12.9	257.0	1.0	3.0	0.0	H-Horn	AV	0.0	39.1	54.0	-14.9	High Channel, GFSK-DH5 data rate
7440.005	25.8	12.9	188.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.7	54.0	-15.3	High Channel, QPSK-2-DH5 data rate
7439.410	25.7	12.9	356.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.6	54.0	-15.4	High Channel, GFSK-DH5 data rate
7439.645	25.7	12.9	130.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.6	54.0	-15.4	High Channel, QPSK-2-DH5 data rate
4960.015	31.9	6.6	219.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.5	54.0	-15.5	High Channel, QPSK-2-DH5 data rate
7439.320	40.6	12.9	356.0	1.0	3.0	0.0	V-Horn	PK	0.0	53.5	74.0	-20.5	High Channel, GFSK-DH5 data rate
7440.085	39.7	12.9	190.0	1.0	3.0	0.0	V-Horn	PK	0.0	52.6	74.0	-21.4	High Channel, 8-DPSK-3-DH5 data rate
7440.835	39.6	12.9	264.0	1.0	3.0	0.0	H-Horn	PK	0.0	52.5	74.0	-21.5	High Channel, 8-DPSK-3-DH5 data rate
7439.895	39.5	12.9	257.0	1.0	3.0	0.0	H-Horn	PK	0.0	52.4	74.0	-21.6	High Channel, GFSK-DH5 data rate
7439.100	39.1	12.9	130.0	1.0	3.0	0.0	V-Horn	PK	0.0	52.0	74.0	-22.0	High Channel, QPSK-2-DH5 data rate
7438.650	38.8	12.9	188.0	1.0	3.0	0.0	H-Horn	PK	0.0	51.7	74.0	-22.3	High Channel, QPSK-2-DH5 data rate
4959.875	44.3	6.6	200.0	1.0	3.0	0.0	V-Horn	PK	0.0	50.9	74.0	-23.1	High Channel, GFSK-DH5 data rate
4959.555	43.8	6.6	122.0	1.0	3.0	0.0	H-Horn	PK	0.0	50.4	74.0	-23.6	High Channel, QPSK-2-DH5 data rate

EUT: CK3x with DHIB	Work Order: INMC0479
Serial Number: None	Date: 09/02/08
Customer: Intermec Technologies Corporation	Temperature: 21.3 °C
Attendees: None	Humidity: 41%
Project: None	Barometric Pres.: 1022.9mb
Tested by: David Divergielis	Power: Battery
	Job Site: EV12

TEST SPECIFICATIONS

FCC 15.247 (FHSS):2007	Test Method
	ANSI C63.4:2003, KDB No. 558074

TEST PARAMETERS

Antenna Height(s) (m)	1 - 4	Test Distance (m)	3
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COMMENTS

CK3 SN:12410858052. Single Docking station..

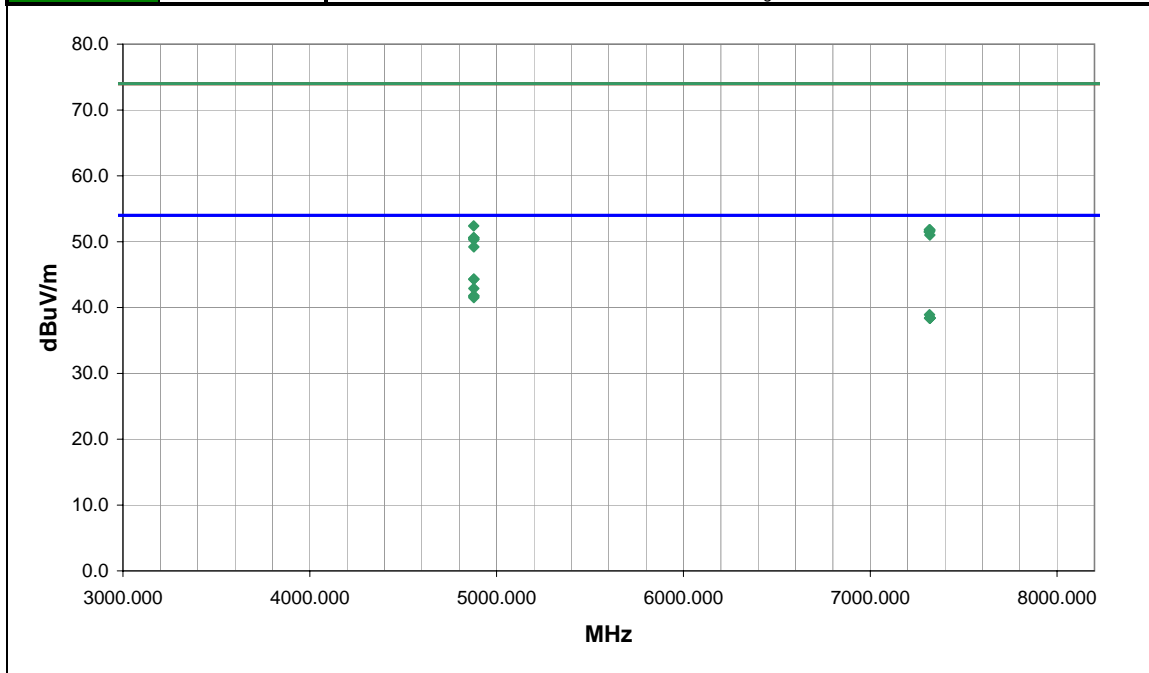
EUT OPERATING MODES

Continuous Tx, Bluetooth, Mid Channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	8	Signature 
Configuration #	2	
Results	Pass	



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
4878.013	37.8	6.5	203.0	1.0	3.0	0.0	V-Horn	AV	0.0	44.3	54.0	-9.7	GFSK
4878.027	37.8	6.5	192.0	1.1	3.0	0.0	V-Horn	AV	0.0	44.3	54.0	-9.7	8- DPSK
4878.007	36.4	6.5	91.0	1.0	3.0	0.0	H-Horn	AV	0.0	42.9	54.0	-11.1	GFSK
4878.020	35.3	6.5	99.0	1.0	3.0	0.0	H-Horn	AV	0.0	41.8	54.0	-12.2	QPSK
4878.047	35.2	6.5	196.0	1.0	3.0	0.0	V-Horn	AV	0.0	41.7	54.0	-12.3	QPSK
4878.033	35.0	6.5	106.0	1.0	3.0	0.0	H-Horn	AV	0.0	41.5	54.0	-12.5	8- DPSK
7317.113	26.4	12.5	89.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.9	54.0	-15.1	QPSK
7317.160	25.9	12.5	155.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.4	54.0	-15.6	GFSK
7318.420	25.9	12.5	33.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.4	54.0	-15.6	QPSK
7319.427	25.9	12.5	41.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.4	54.0	-15.6	8- DPSK
7319.507	25.9	12.5	102.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.4	54.0	-15.6	GFSK
7319.527	25.9	12.5	318.0	2.6	3.0	0.0	H-Horn	AV	0.0	38.4	54.0	-15.6	8- DPSK
4877.493	45.9	6.5	192.0	1.1	3.0	0.0	V-Horn	PK	0.0	52.4	74.0	-21.6	8- DPSK
7316.153	39.3	12.5	318.0	2.6	3.0	0.0	H-Horn	PK	0.0	51.8	74.0	-22.2	8- DPSK
7318.667	39.3	12.5	89.0	1.0	3.0	0.0	H-Horn	PK	0.0	51.8	74.0	-22.2	QPSK
7318.047	39.2	12.5	41.0	1.0	3.0	0.0	V-Horn	PK	0.0	51.7	74.0	-22.3	8- DPSK
7318.060	39.1	12.5	33.0	1.0	3.0	0.0	V-Horn	PK	0.0	51.6	74.0	-22.4	QPSK
7315.653	39.0	12.5	102.0	1.0	3.0	0.0	V-Horn	PK	0.0	51.5	74.0	-22.5	GFSK
7318.660	38.5	12.5	155.0	1.0	3.0	0.0	H-Horn	PK	0.0	51.0	74.0	-23.0	GFSK
4877.547	44.1	6.5	106.0	1.0	3.0	0.0	H-Horn	PK	0.0	50.6	74.0	-23.4	8- DPSK

EUT: CK3x with DHIB	Work Order: INMC0479
Serial Number: None	Date: 09/02/08
Customer: Intermec Technologies Corporation	Temperature: 21.3 °C
Attendees: None	Humidity: 41%
Project: None	Barometric Pres.: 1022.9mb
Tested by: Dan Haas	Power: Battery
	Job Site: EV12

TEST SPECIFICATIONS	Test Method
FCC 15.247 (FHSS):2007	ANSI C63.4:2003, KDB No. 558074

TEST PARAMETERS	
Antenna Height(s) (m) 1 - 4	Test Distance (m) 3

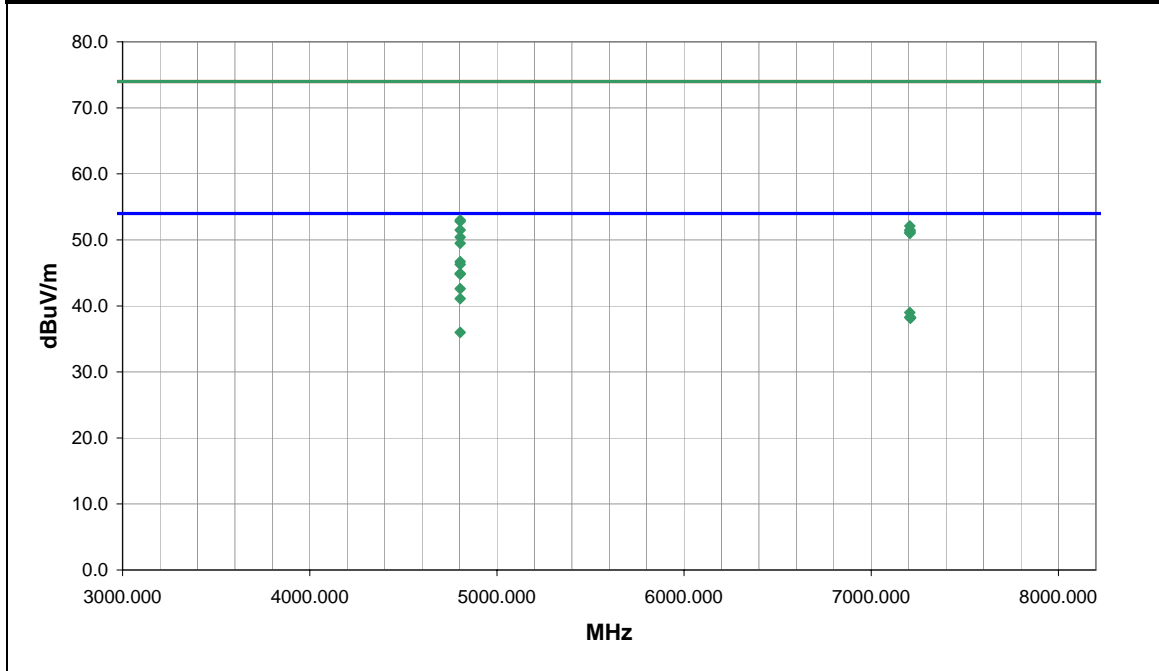
COMMENTS
 CK3 SN:12410858052. Single Docking station.

EUT OPERATING MODES
 Continuous Tx, Bluetooth, Low channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	9	Signature 
Configuration #	2	
Results	Pass	



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
4804.027	40.0	6.3	193.0	1.0	3.0	0.0	V-Horn	AV	0.0	46.3	54.0	-7.7	GFSK
4804.027	38.6	6.3	188.0	1.0	3.0	0.0	V-Horn	AV	0.0	44.9	54.0	-9.1	8 - DPSK
4804.040	38.5	6.3	185.0	1.0	3.0	0.0	V-Horn	AV	0.0	44.8	54.0	-9.2	QPSK
4804.020	36.3	6.3	110.0	1.0	3.0	0.0	H-Horn	AV	0.0	42.6	54.0	-11.4	GFSK
4804.000	34.8	6.3	224.0	1.1	3.0	0.0	H-Horn	AV	0.0	41.1	54.0	-12.9	QPSK
7206.093	26.9	12.1	117.0	1.0	3.0	0.0	H-Horn	AV	0.0	39.0	54.0	-15.0	QPSK
7206.240	26.2	12.1	141.0	1.4	3.0	0.0	V-Horn	AV	0.0	38.3	54.0	-15.7	QPSK
7208.373	26.1	12.1	242.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.2	54.0	-15.8	GFSK
7209.113	26.1	12.1	167.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.2	54.0	-15.8	8 - DPSK
7209.247	26.1	12.1	42.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.2	54.0	-15.8	GFSK
7209.800	26.1	12.1	240.0	1.4	3.0	0.0	V-Horn	AV	0.0	38.2	54.0	-15.8	8 - DPSK
4803.993	29.7	6.3	228.0	1.1	3.0	0.0	H-Horn	AV	0.0	36.0	54.0	-18.0	8 - DPSK
4803.773	46.7	6.3	185.0	1.0	3.0	0.0	V-Horn	PK	0.0	53.0	74.0	-21.0	QPSK
4803.760	46.5	6.3	188.0	1.0	3.0	0.0	V-Horn	PK	0.0	52.8	74.0	-21.2	8 - DPSK
7205.913	40.0	12.1	117.0	1.0	3.0	0.0	H-Horn	PK	0.0	52.1	74.0	-21.9	QPSK
4804.087	45.2	6.3	193.0	1.0	3.0	0.0	V-Horn	PK	0.0	51.5	74.0	-22.5	GFSK
7206.160	39.4	12.1	42.0	1.0	3.0	0.0	H-Horn	PK	0.0	51.5	74.0	-22.5	GFSK
7207.673	39.3	12.1	240.0	1.4	3.0	0.0	V-Horn	PK	0.0	51.4	74.0	-22.6	8 - DPSK
7207.273	39.1	12.1	141.0	1.4	3.0	0.0	V-Horn	PK	0.0	51.2	74.0	-22.8	QPSK
7205.980	39.0	12.1	167.0	1.0	3.0	0.0	H-Horn	PK	0.0	51.1	74.0	-22.9	8 - DPSK









Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4407B	AAU	12/7/2007	13
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/27/2008	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The occupied bandwidth was measured with the EUT set to low, medium, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting at its maximum data rate in a no hop mode.

EMC

OCCUPIED BANDWIDTH

EUT: CK3x with DHIB	Work Order: INMC0479
Serial Number: None	Date: 08/29/08
Customer: Intermec Technologies Corporation	Temperature: 24°C
Attendees: None	Humidity: 56%
Project: None	Barometric Pres.: 29.98 in
Tested by: Rod Peloquin	Power: 3.7 Vdc Battery
	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2007	ANSI C63.4:2003 KDB No. 558074

COMMENTS
CK3 SN:12110858075

DEVIATIONS FROM TEST STANDARD

No Deviations

Configuration #	3	Signature 
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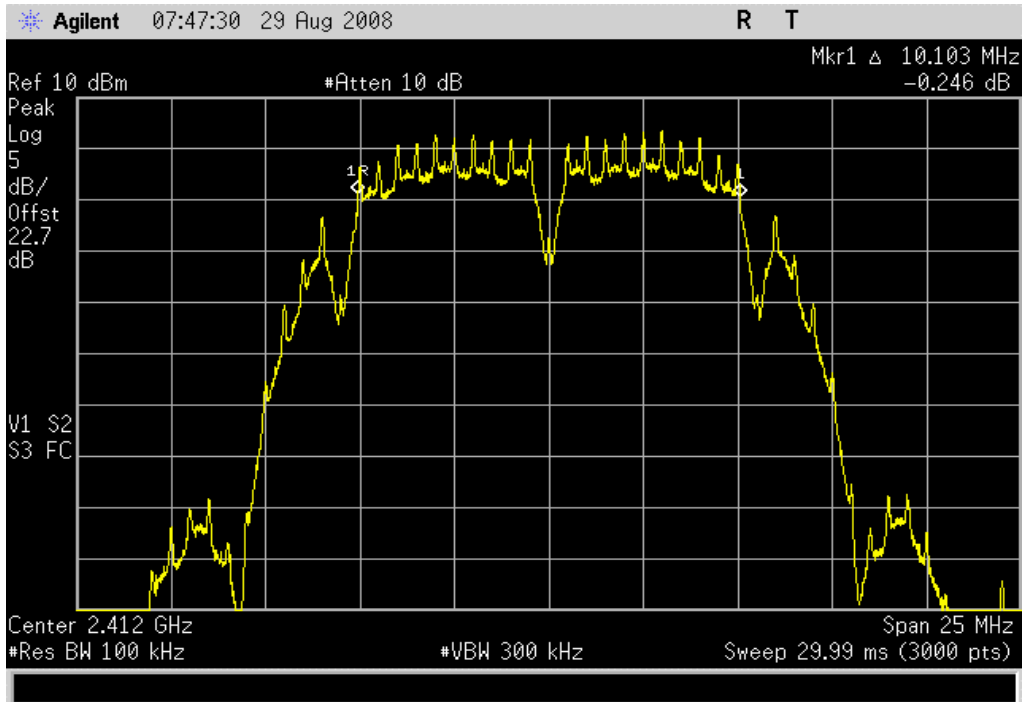
		Value	Limit	Results
802.11(b) 1 Mbps	Low Channel	10.103 MHz	> 500 kHz	Pass
	Mid Channel	10.103 MHz	> 500 kHz	Pass
	High Channel	10.112 MHz	> 500 kHz	Pass
802.11(b) 11 Mbps	Low Channel	10.920 MHz	> 500 kHz	Pass
	Mid Channel	11.062 MHz	> 500 kHz	Pass
	High Channel	11.012 MHz	> 500 kHz	Pass
802.11(g) 6 Mbps	Low Channel	16.339 MHz	> 500 kHz	Pass
	Mid Channel	16.339 MHz	> 500 kHz	Pass
	High Channel	16.364 MHz	> 500 kHz	Pass
802.11(g) 36 Mbps	Low Channel	16.405 MHz	> 500 kHz	Pass
	Mid Channel	16.422 MHz	> 500 kHz	Pass
	High Channel	16.430 MHz	> 500 kHz	Pass
802.11(g) 54 Mbps	Low Channel	16.280 MHz	> 500 kHz	Pass
	Mid Channel	16.414 MHz	> 500 kHz	Pass
	High Channel	16.314 MHz	> 500 kHz	Pass

802.11(b) 1 Mbps, Low Channel

Result: Pass

Value: 10.103 MHz

Limit: > 500 kHz

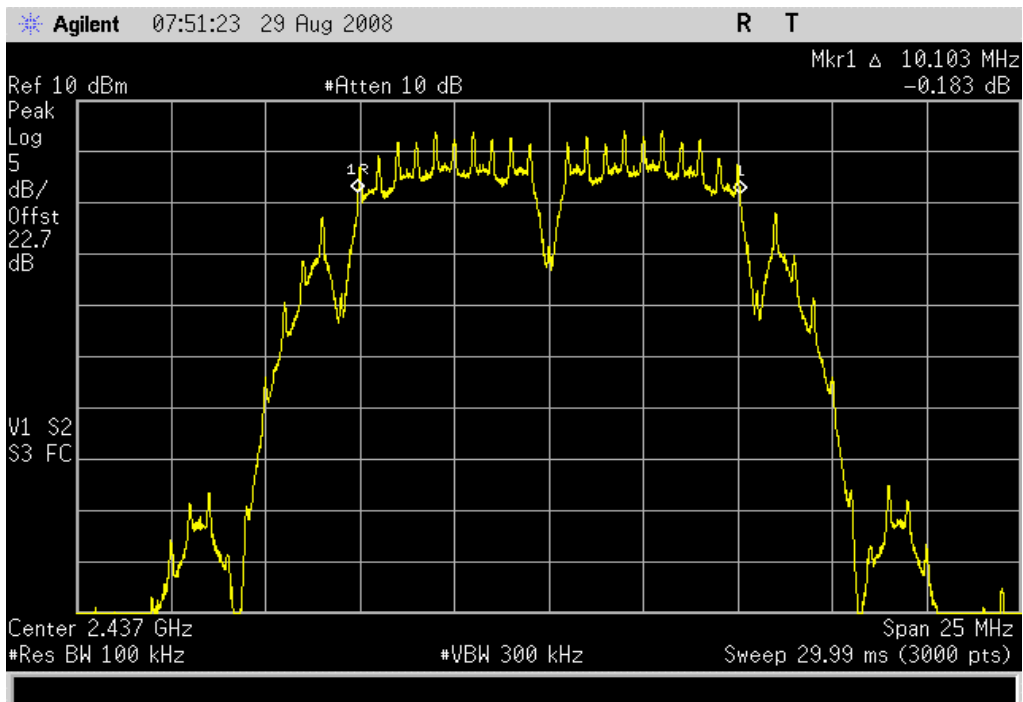


802.11(b) 1 Mbps, Mid Channel

Result: Pass

Value: 10.103 MHz

Limit: > 500 kHz

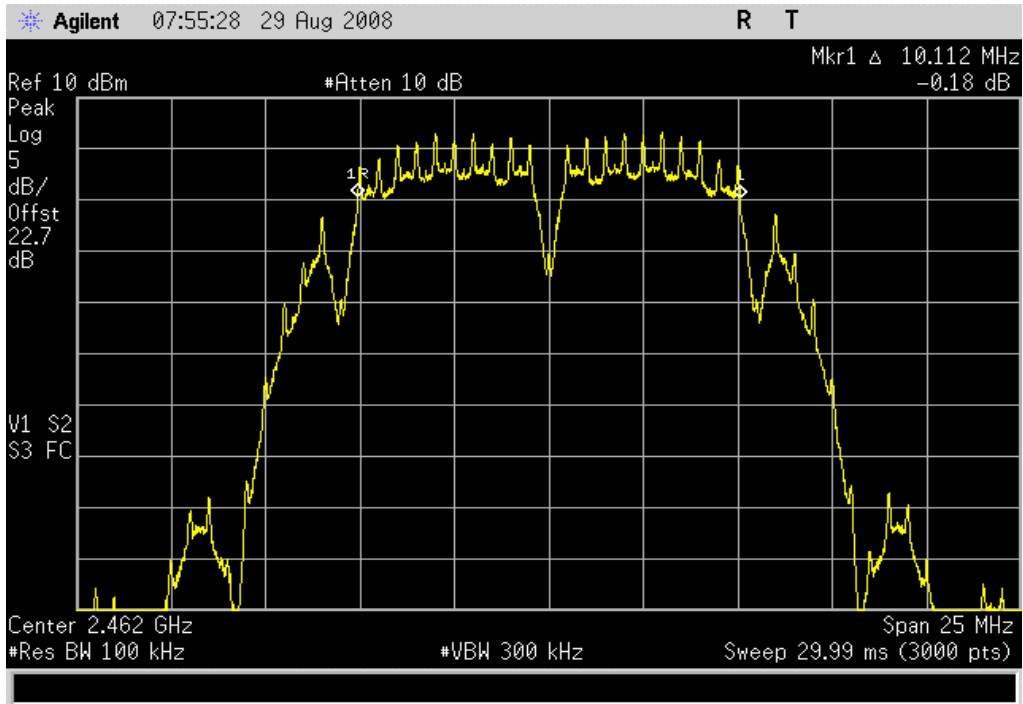


802.11(b) 1 Mbps, High Channel

Result: Pass

Value: 10.112 MHz

Limit: > 500 kHz

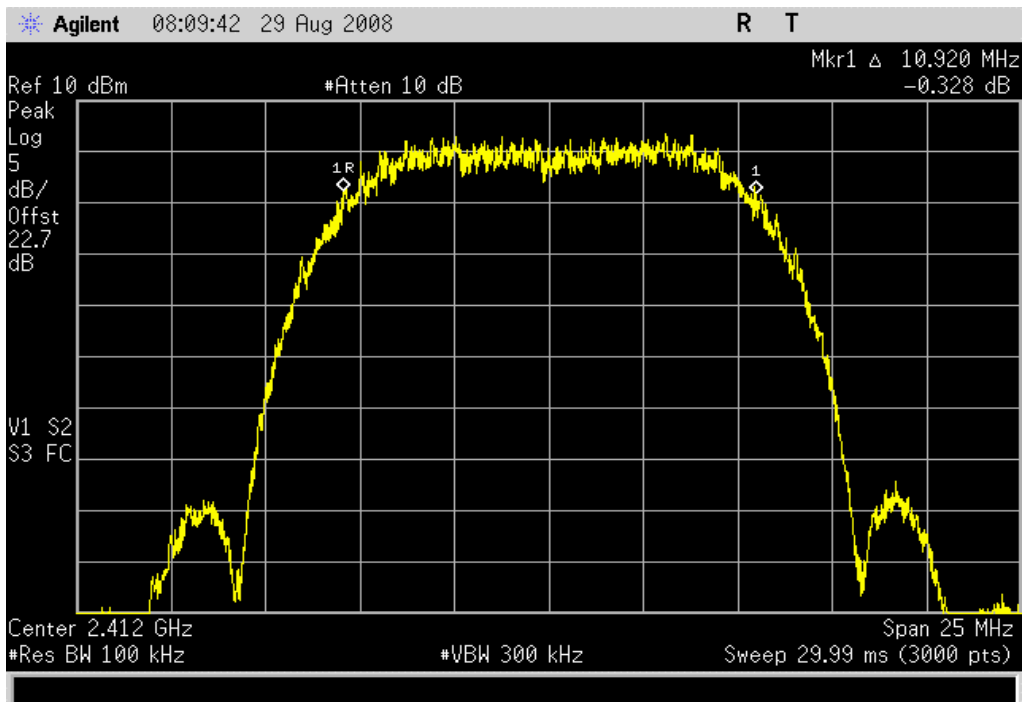


802.11(b) 11 Mbps, Low Channel

Result: Pass

Value: 10.920 MHz

Limit: > 500 kHz

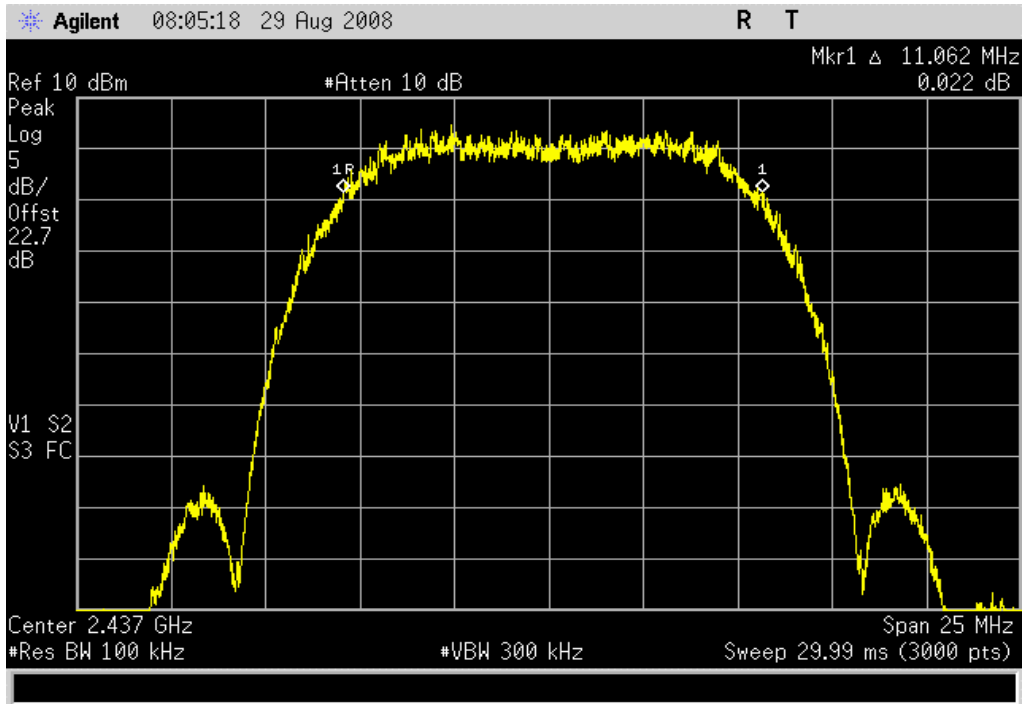


802.11(b) 11 Mbps, Mid Channel

Result: Pass

Value: 11.062 MHz

Limit: > 500 kHz

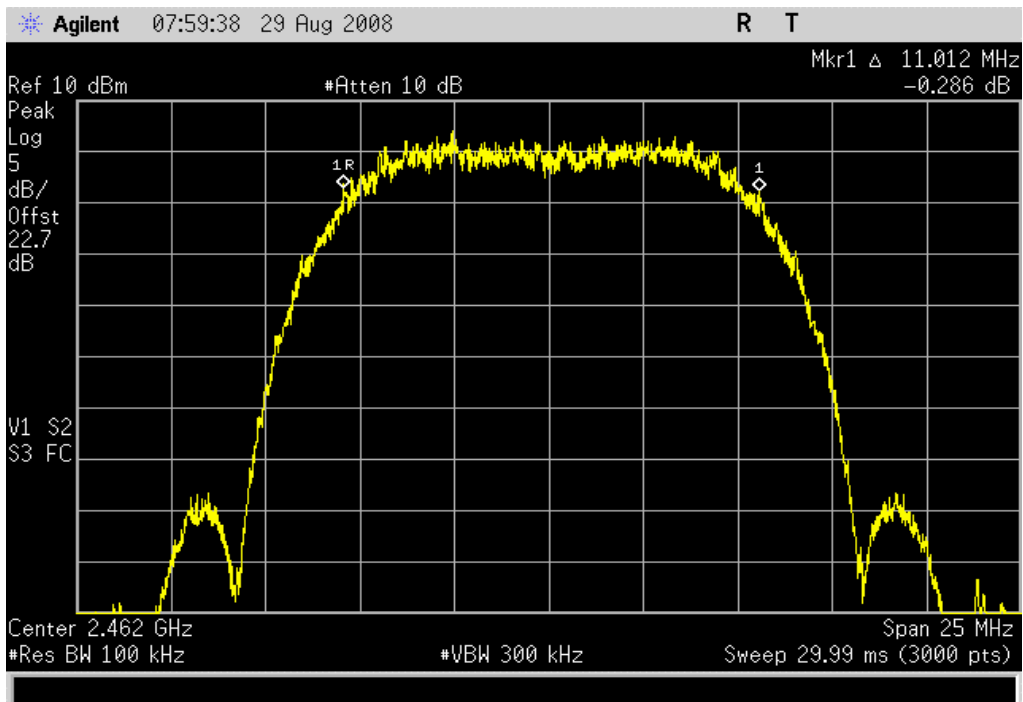


802.11(b) 11 Mbps, High Channel

Result: Pass

Value: 11.012 MHz

Limit: > 500 kHz

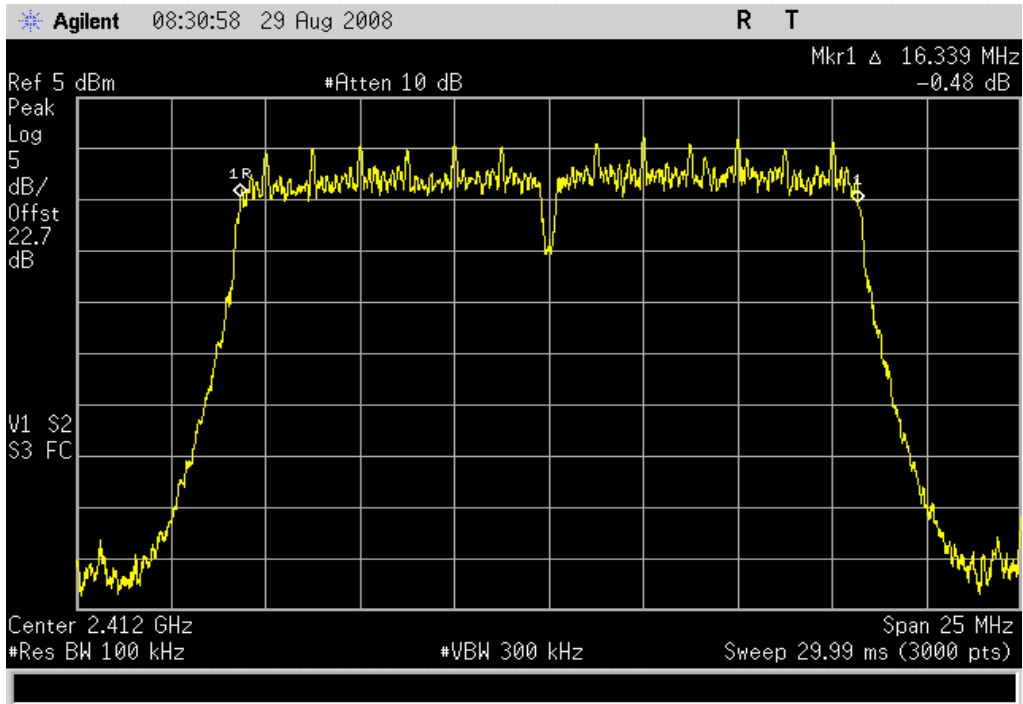


802.11(g) 6 Mbps, Low Channel

Result: Pass

Value: 16.339 MHz

Limit: > 500 kHz

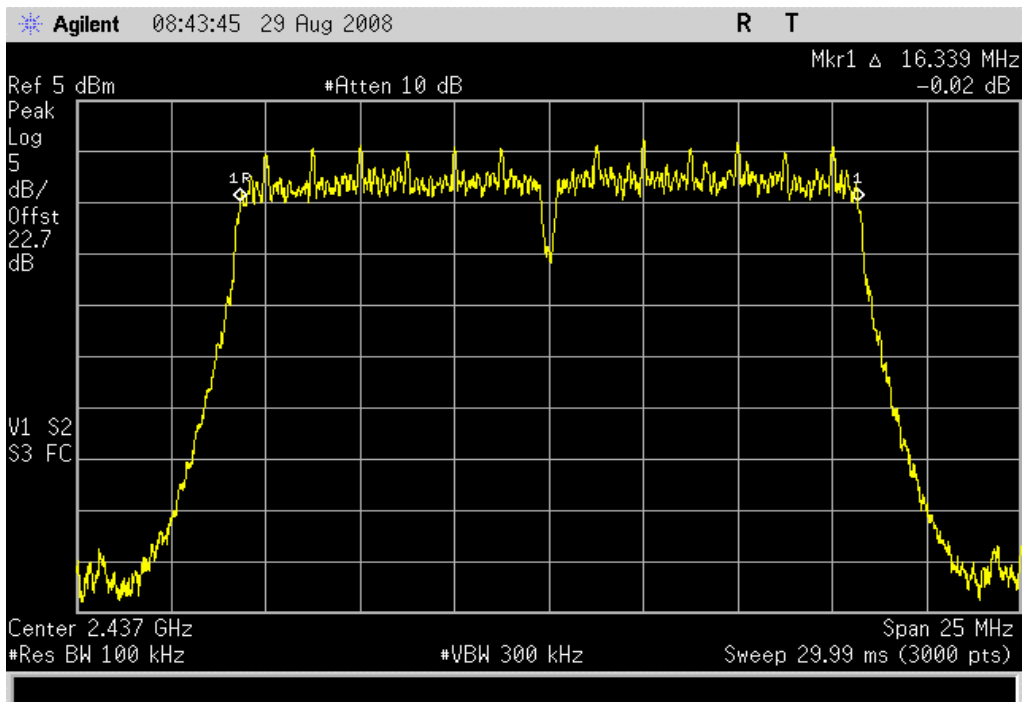


802.11(g) 6 Mbps, Mid Channel

Result: Pass

Value: 16.339 MHz

Limit: > 500 kHz

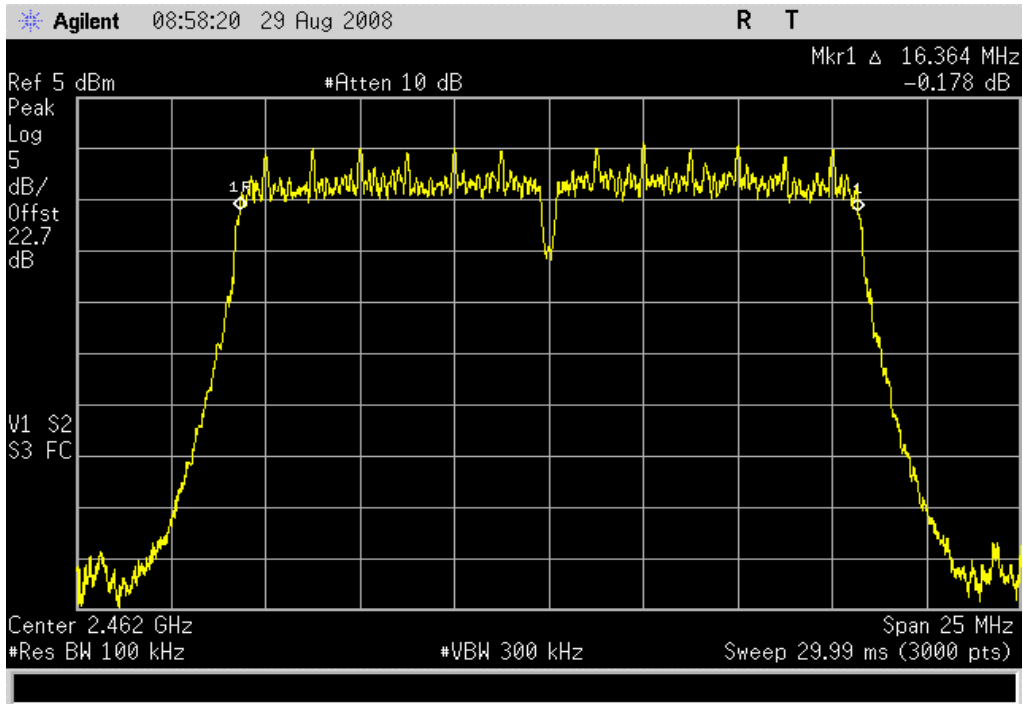


802.11(g) 6 Mbps, High Channel

Result: Pass

Value: 16.364 MHz

Limit: > 500 kHz

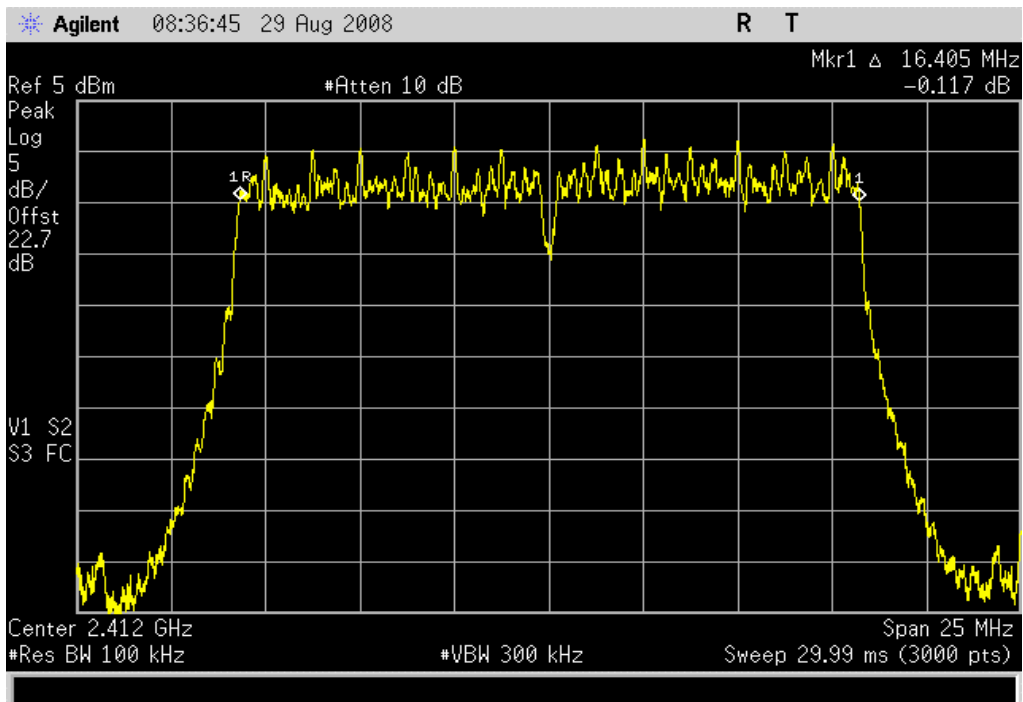


802.11(g) 36 Mbps, Low Channel

Result: Pass

Value: 16.405 MHz

Limit: > 500 kHz

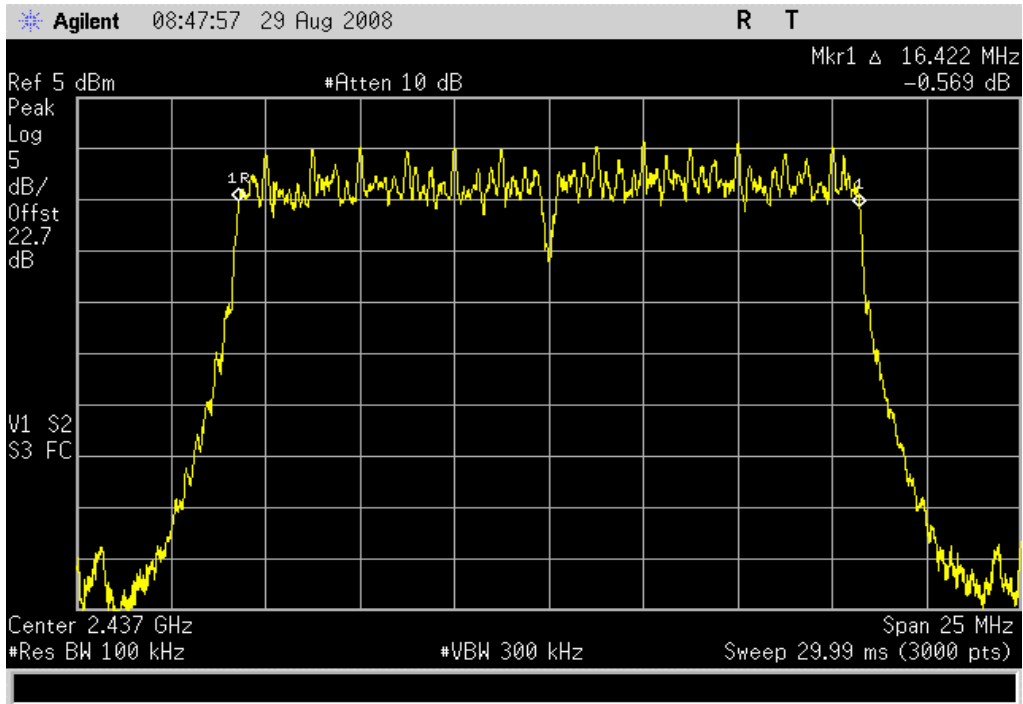


802.11(g) 36 Mbps, Mid Channel

Result: Pass

Value: 16.422 MHz

Limit: > 500 kHz

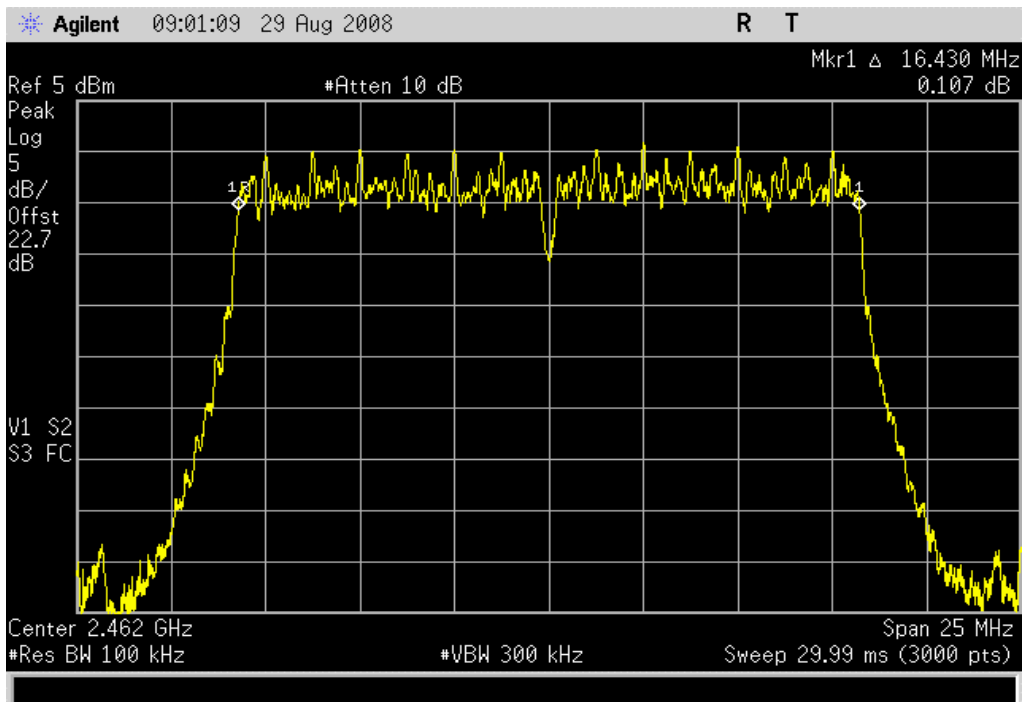


802.11(g) 36 Mbps, High Channel

Result: Pass

Value: 16.430 MHz

Limit: > 500 kHz

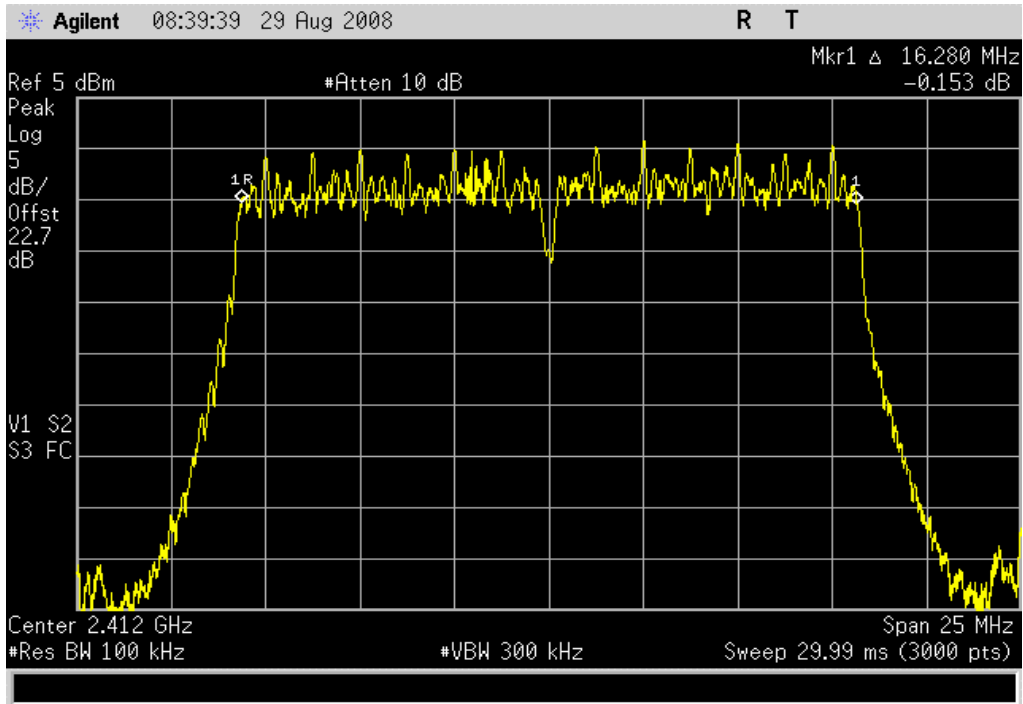


802.11(g) 54 Mbps, Low Channel

Result: Pass

Value: 16.280 MHz

Limit: > 500 kHz

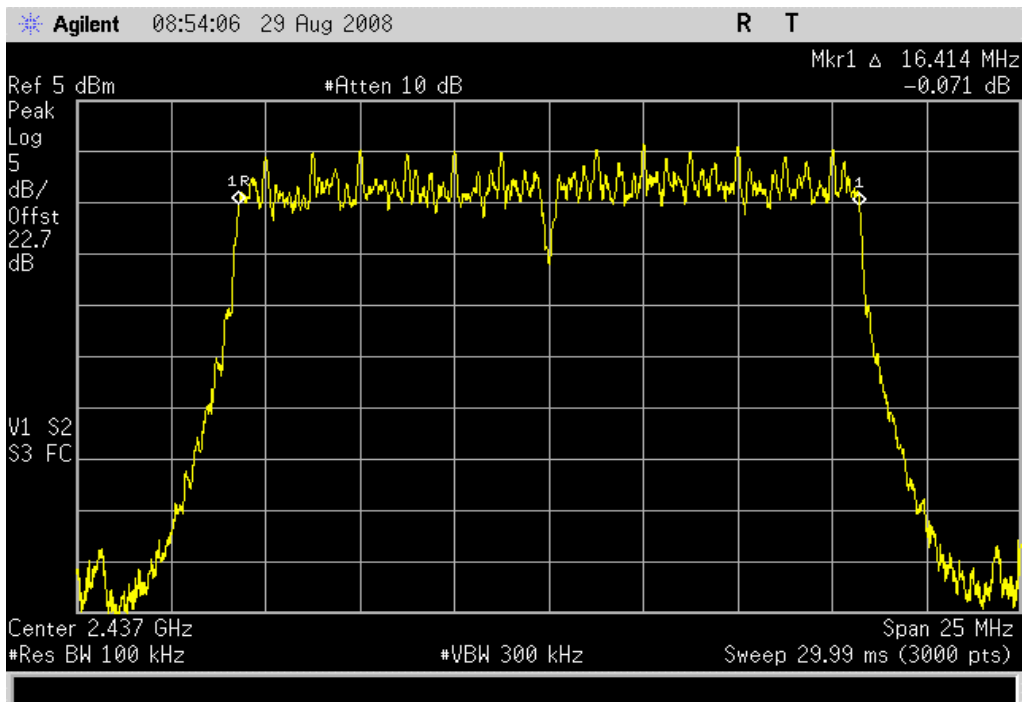


802.11(g) 54 Mbps, Mid Channel

Result: Pass

Value: 16.414 MHz

Limit: > 500 kHz



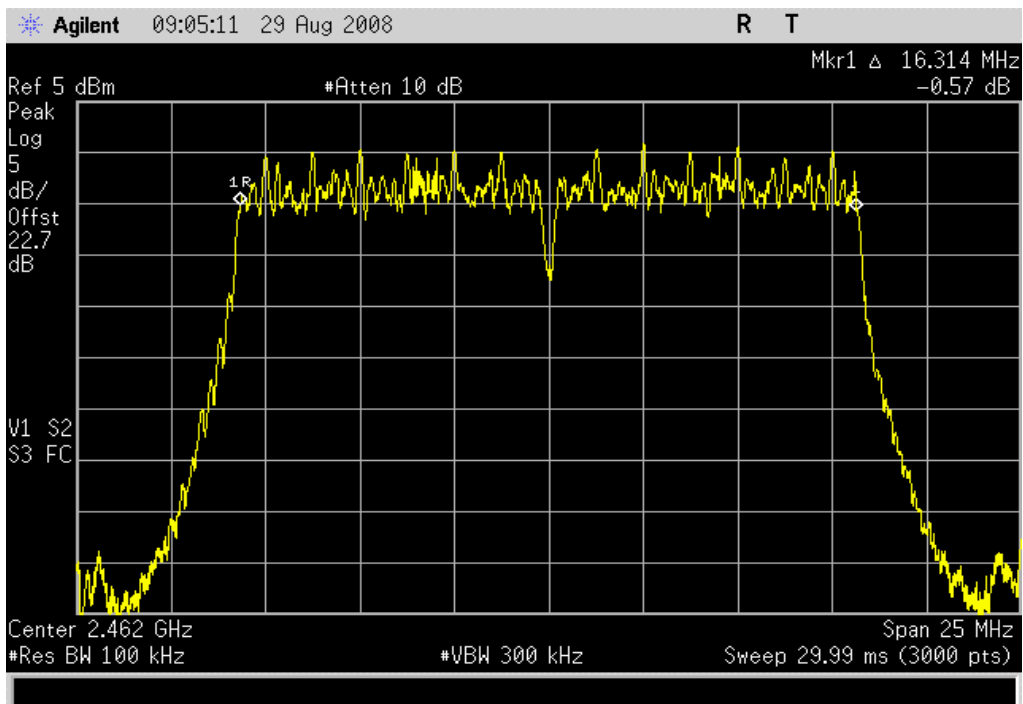
OCCUPIED BANDWIDTH

802.11(g) 54 Mbps, High Channel

Result: Pass

Value: 16.314 MHz

Limit: > 500 kHz





Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4407B	AAU	12/7/2007	13
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/27/2008	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The occupied bandwidth was measured with the EUT set to low, medium, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The EUT was transmitting in a no hop mode at its maximum data rate for each of the three different modulations available.

EUT: CK3x with DHIB	Work Order: INMC0479
Serial Number: None	Date: 08/28/08
Customer: Intermec Technologies Corporation	Temperature: 24°C
Attendees: None	Humidity: 44%
Project: None	Barometric Pres.: 30.16 in
Tested by: Rod Peloquin	Power: 3.7 Vdc Battery
	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.247 (FHSS):2007	ANSI C63.4:2003 DA 00-705:2000

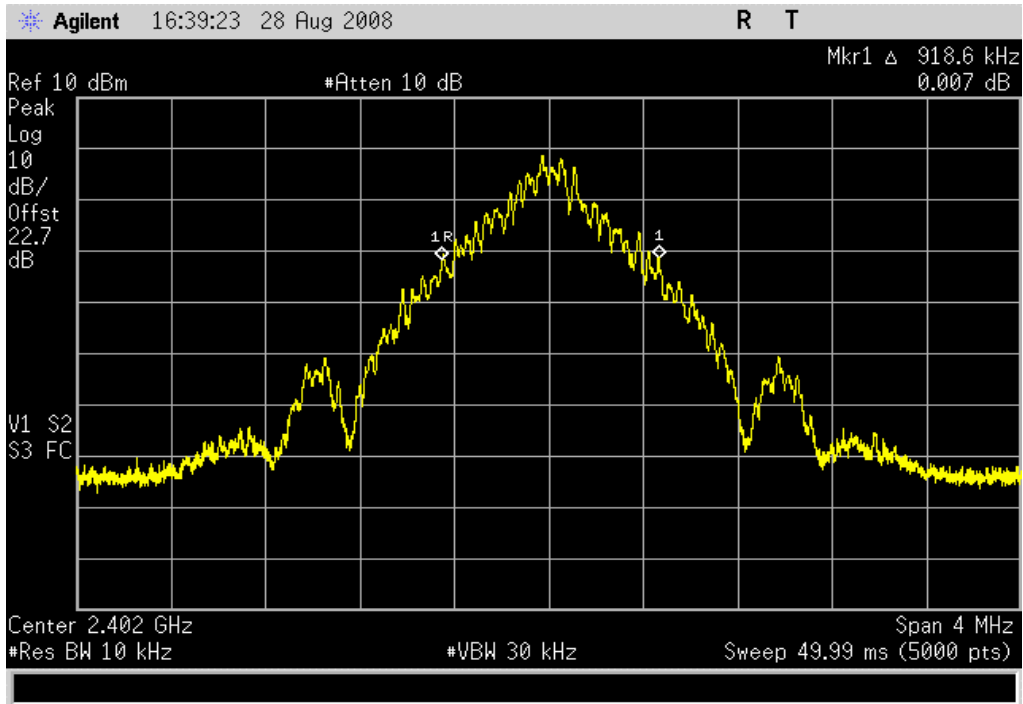
COMMENTS
CK3 SN:12110858075

DEVIATIONS FROM TEST STANDARD
No Deviations

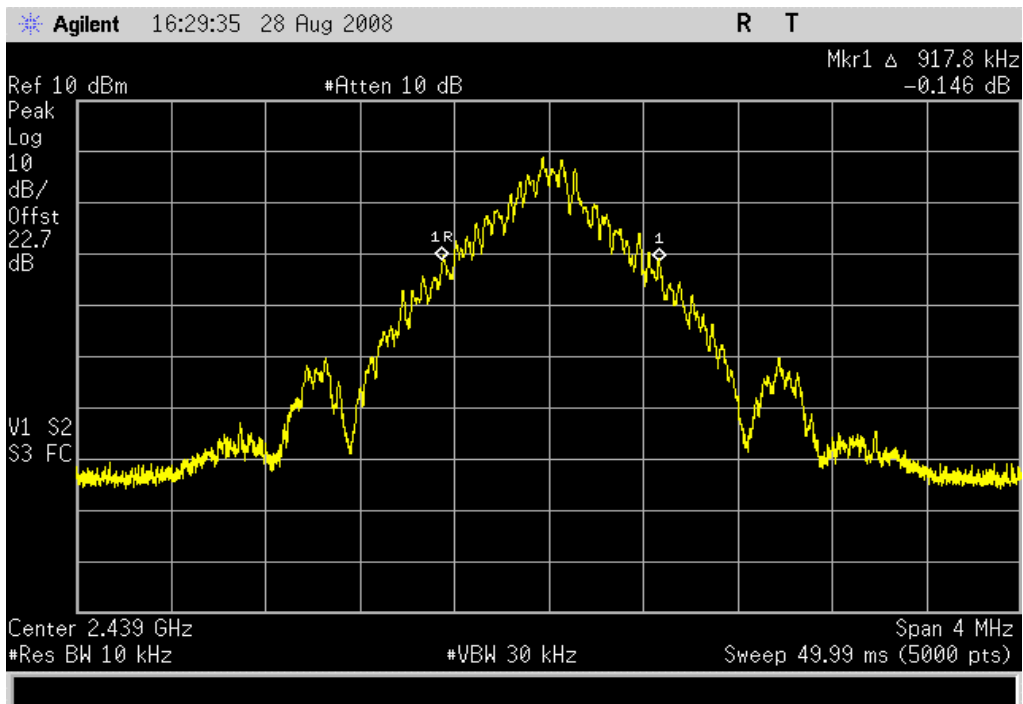
Configuration #	3	Signature 
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		Value	Limit	Results
GFSK, DH5	Low Channel, 2402MHz	918.6 kHz	1.5 MHz	Pass
	Mid Channel, 2439 MHz	917.8 kHz	1.5 MHz	Pass
	High Channel, 2480 MHz	919.4 kHz	1.5 MHz	Pass
pi/4-DQPSK, 2DH5	Low Channel, 2402MHz	1.3403 MHz	1.5 MHz	Pass
	Mid Channel, 2439 MHz	1.3419 MHz	1.5 MHz	Pass
	High Channel, 2480 MHz	1.3459 MHz	1.5 MHz	Pass
8DPSK, 3DH5	Low Channel, 2402MHz	1.3443 MHz	1.5 MHz	Pass
	Mid Channel, 2439 MHz	1.3459 MHz	1.5 MHz	Pass
	High Channel, 2480 MHz	1.3483 MHz	1.5 MHz	Pass

GFSK, DH5, Low Channel, 2402MHz
Result: Pass **Value:** 918.6 kHz **Limit:** 1.5 MHz



GFSK, DH5, Mid Channel, 2441 MHz
Result: Pass **Value:** 917.8 kHz **Limit:** 1.5 MHz

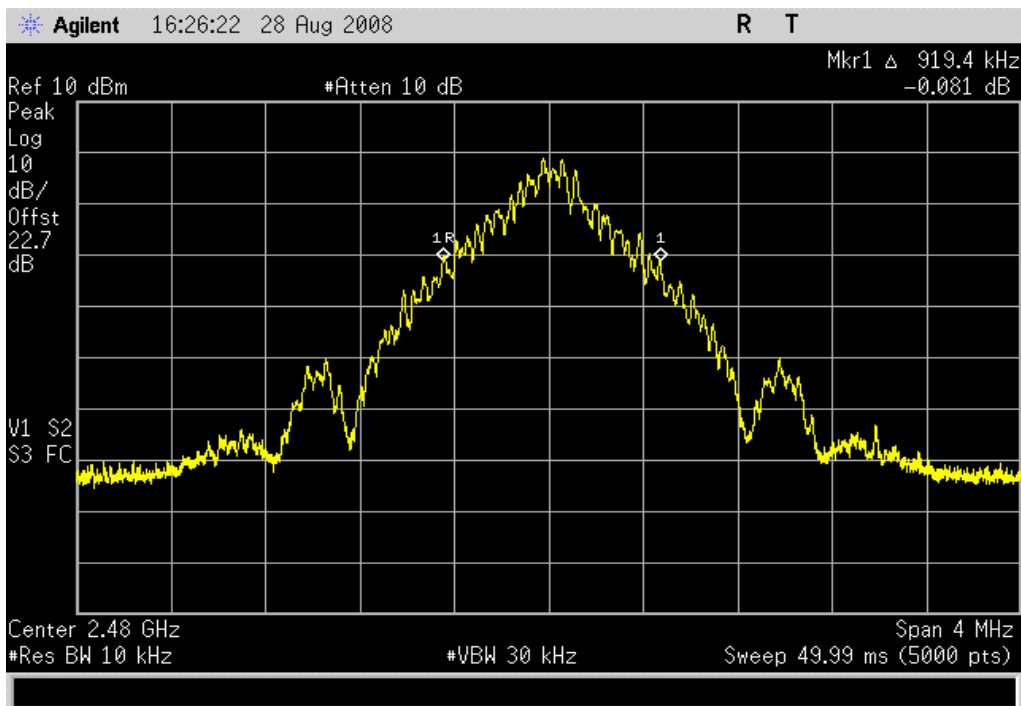


GFSK, DH5, High Channel, 2480 MHz

Result: Pass

Value: 919.4 kHz

Limit: 1.5 MHz

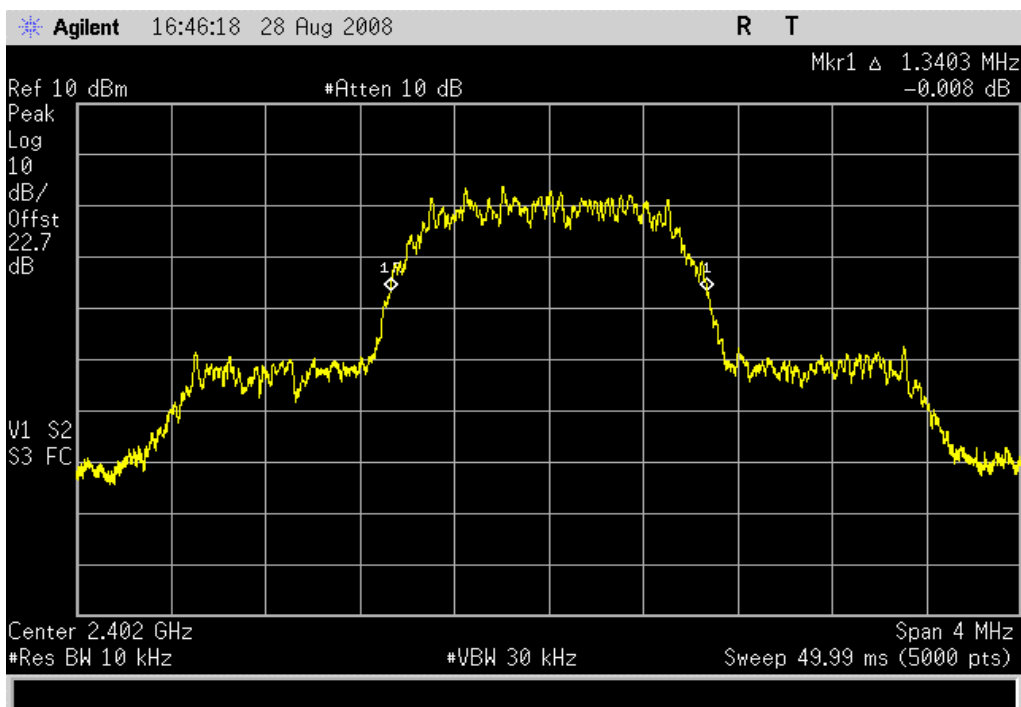


pi/4-DQPSK, 2DH5, Low Channel, 2402MHz

Result: Pass

Value: 1.3403 MHz

Limit: 1.5 MHz

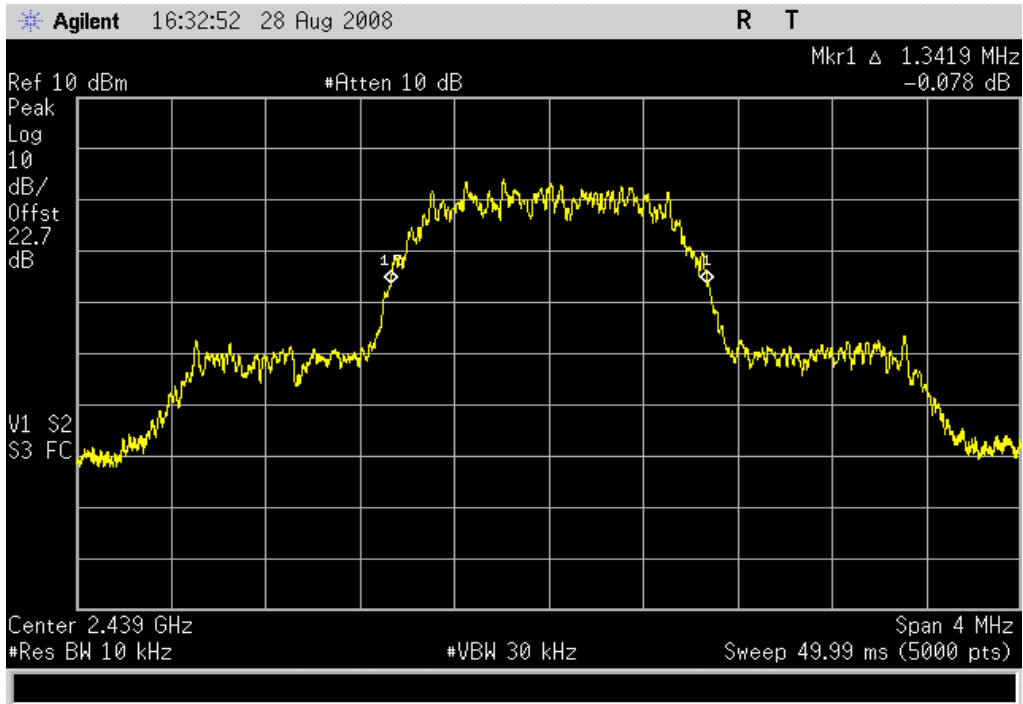


pi/4-DQPSK, 2DH5, Mid Channel, 2441 MHz

Result: Pass

Value: 1.3419 MHz

Limit: 1.5 MHz

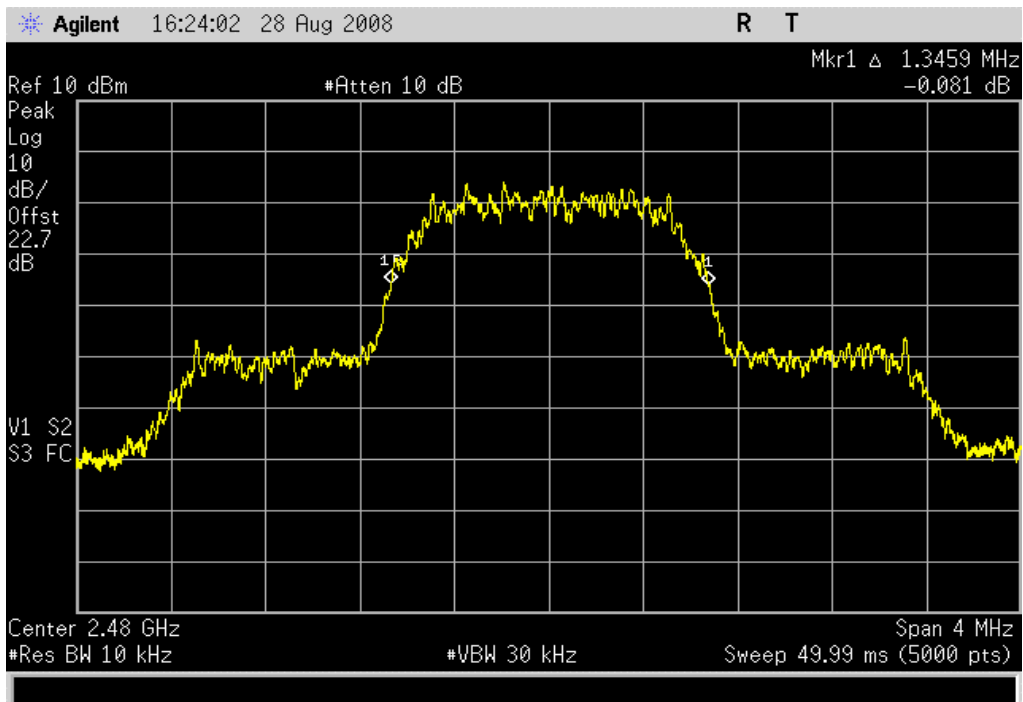


pi/4-DQPSK, 2DH5, High Channel, 2480 MHz

Result: Pass

Value: 1.3459 MHz

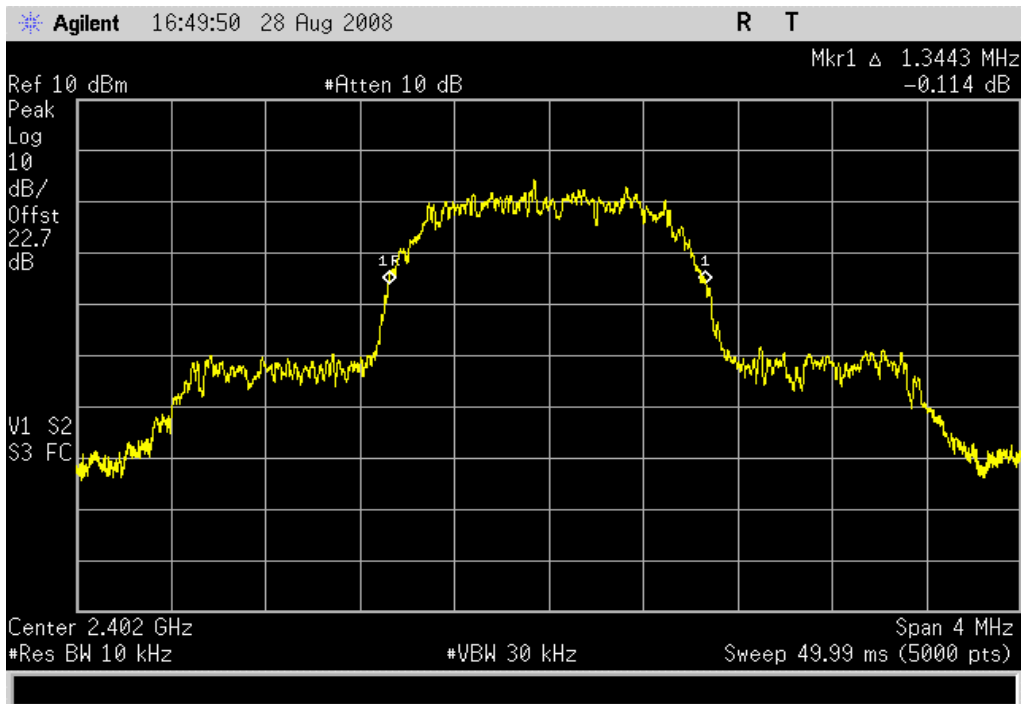
Limit: 1.5 MHz



OCCUPIED BANDWIDTH

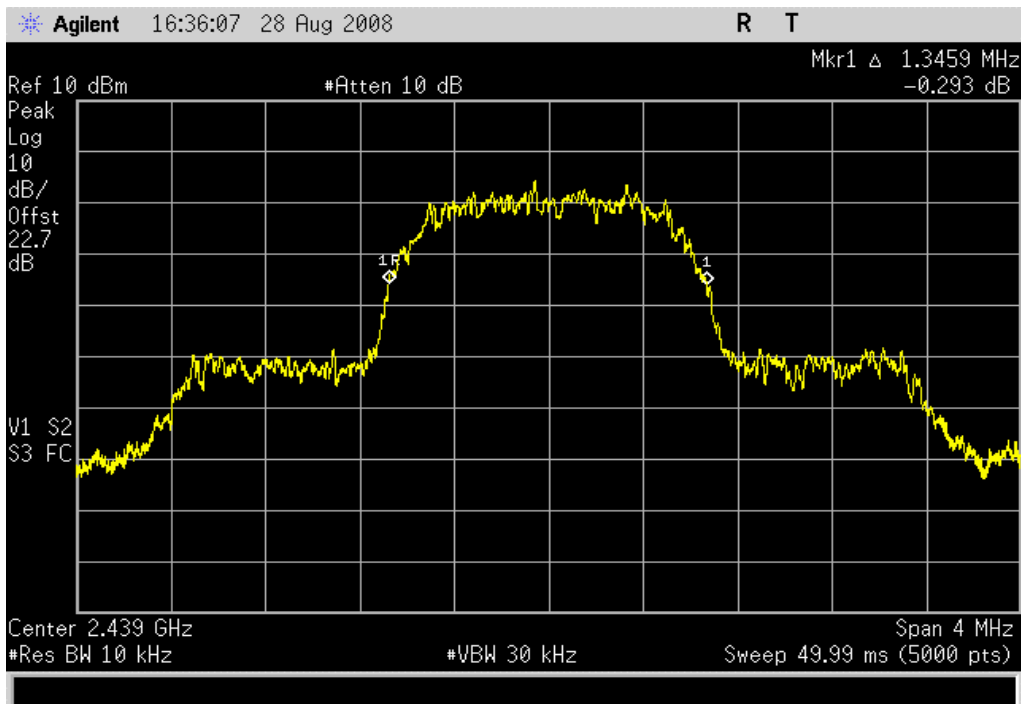
8DPSK, 3DH5, Low Channel, 2402MHz

Result: Pass **Value:** 1.3443 MHz **Limit:** 1.5 MHz



8DPSK, 3DH5, Mid Channel, 2441 MHz

Result: Pass **Value:** 1.3459 MHz **Limit:** 1.5 MHz

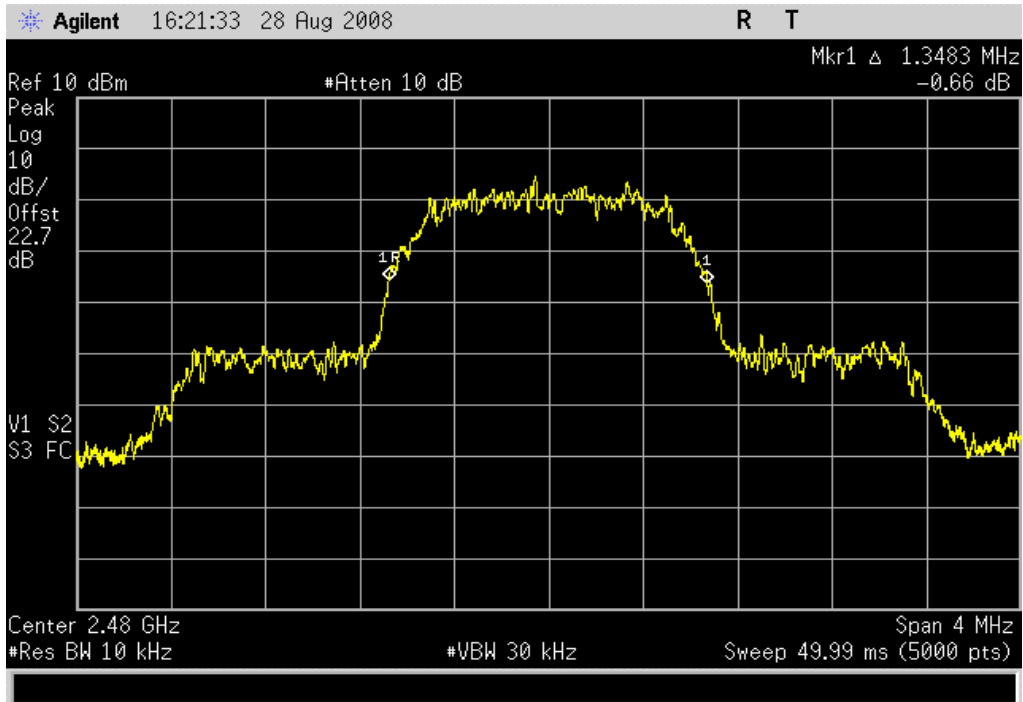


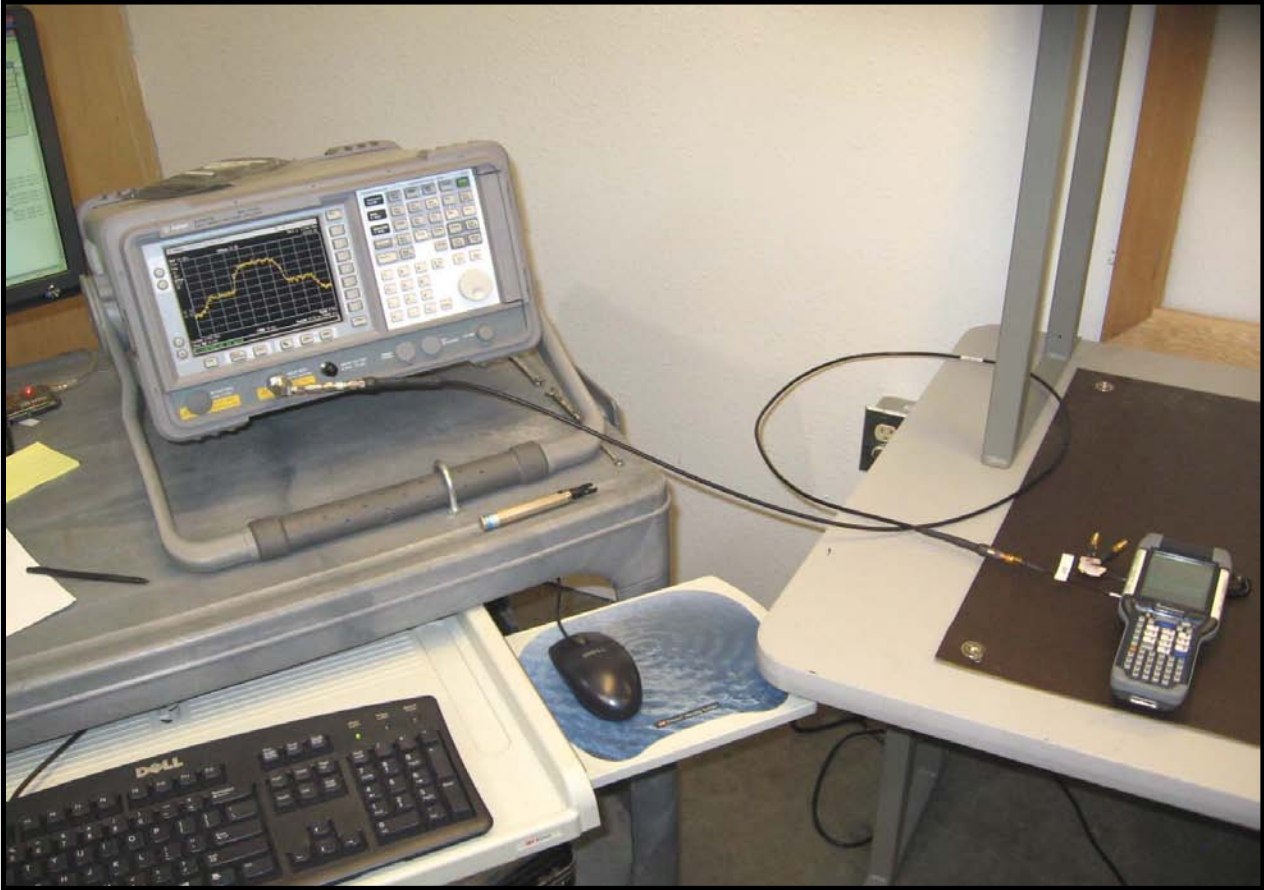
8DPSK, 3DH5, High Channel, 2480 MHz

Result: Pass

Value: 1.3483 MHz

Limit: 1.5 MHz





Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Attenuator		93459 3330A-6	AUF	2/18/2008	13
Attenuator	Weinschel Corp.	54A-20	RBL	NCR	0
Oscilloscope	Tektronix	TDS 3052	TOF	12/7/2007	13
RF Detector	RLC Electronics	CR-133-R	ZZA	NCR	0
Pre-Amplifier	Hewlett-Packard	83017A	APL	10/24/2006	24
Signal Generator	Hewlett-Packard	8648D	TGC	12/7/2007	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION


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

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

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

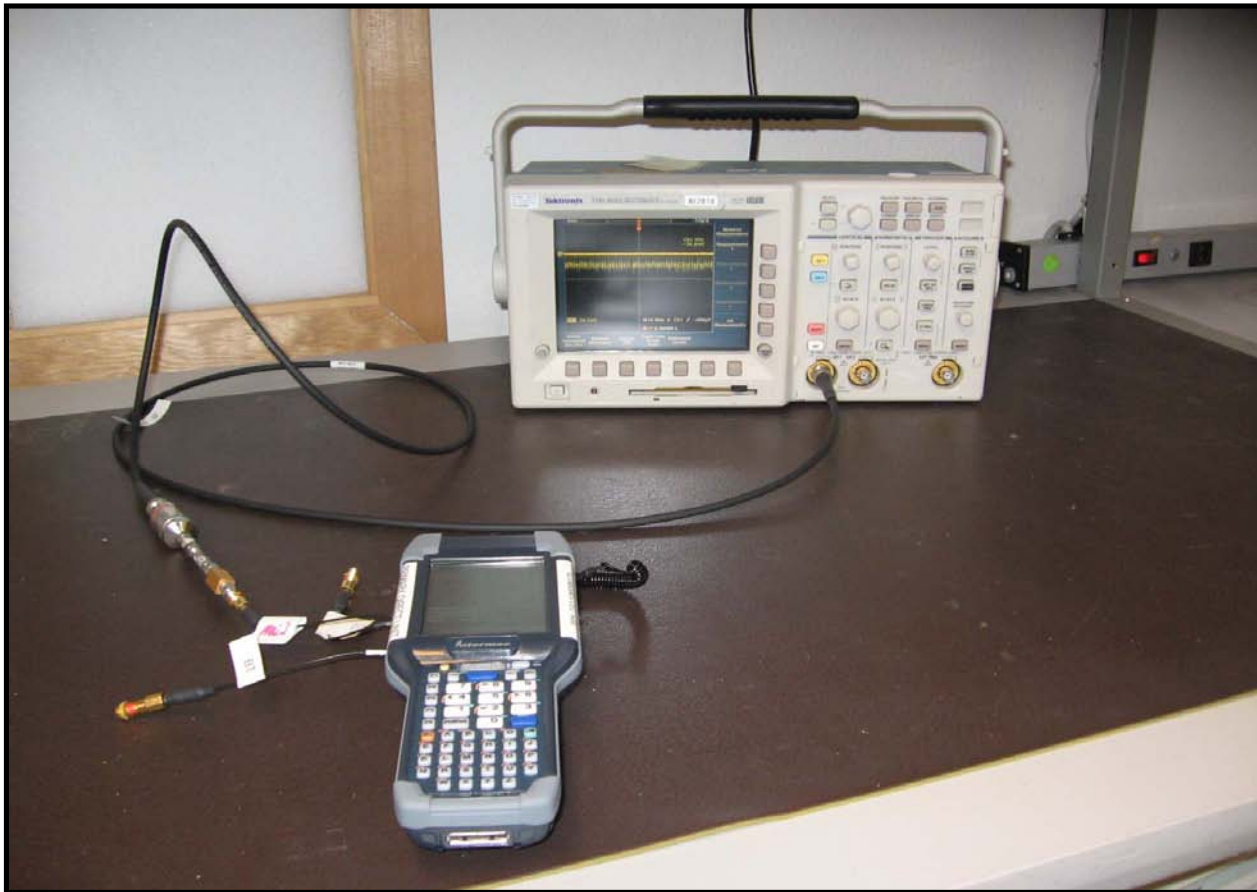
PEAK OUTPUT POWER

EMC

EUT: CK3x with DHIB	Work Order: INMC0479
Serial Number: None	Date: 08/28/08
Customer: Intermec Technologies Corporation	Temperature: 24°C
Attendees: None	Humidity: 44%
Project: None	Barometric Pres.: 30.16 in
Tested by: Rod Peloquin	Power: 3.7 Vdc Battery
Job Site: EV06	
TEST SPECIFICATIONS	
FCC 15.247 (DTS):2007	Test Method ANSI C63.4:2003 KDB No. 558074
COMMENTS	
CK3 SN:12110858075	
DEVIATIONS FROM TEST STANDARD	
No Deviations	
Configuration #	3
	Signature 

Peak Output Power, RF Diode Detector

802.11(b)		1 Mbps		
Xmit Frequency	Channel	Output Power	Output Power	Limit
(MHz)		(dBm)	(mW)	(W)
2412	1	16.19	41.60	1.0
2437	6	16.23	41.90	1.0
2462	11	15.76	37.70	1.0
802.11(b)		11 Mbps		
Xmit Frequency	Channel	Output Power	Output Power	Limit
(MHz)		(dBm)	(mW)	(W)
2412	1	16.11	40.80	1.0
2437	6	16.15	41.20	1.0
2462	11	15.68	37.00	1.0
802.11(g)		6 Mbps		
Xmit Frequency	Channel	Output Power	Output Power	Limit
(MHz)		(dBm)	(mW)	(W)
2412	1	15.35	34.30	1.0
2437	6	14.93	31.10	1.0
2462	11	14.88	30.80	1.0
802.11(g)		36 Mbps		
Xmit Frequency	Channel	Output Power	Output Power	Limit
(MHz)		(dBm)	(mW)	(W)
2412	1	14.47	28.00	1.0
2437	6	14.65	29.20	1.0
2462	11	14.42	27.70	1.0
802.11(g)		54 Mbps		
Xmit Frequency	Channel	Output Power	Output Power	Limit
(MHz)		(dBm)	(mW)	(W)
2412	1	14.19	26.20	1.0
2437	6	14.1	25.70	1.0
2462	11	14.05	25.40	1.0





Testing was performed using the mode(s) of operation and configuration(s) noted within the report. The individuals and/or the organization requesting the test provided the modes, configurations and settings used to complete the evaluation. The actual test parameters are specified in the test data, this includes items such as investigated frequency range (scanned) and test levels. The testing methods and performance specifications, as well as the test site used for the evaluation are indicated in the test data.

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4407B	AAU	12/7/2007	13
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	6/27/2008	13
Power Meter	Gigatronics	8651A	SPM	12/7/2007	13
Power Sensor	Gigatronics	80701A	SPL	12/7/2007	13
Signal Generator	Hewlett-Packard	8648D	TGC	12/7/2007	13

MEASUREMENT UNCERTAINTY

Measurement uncertainty is used to reflect the accuracy of the measured result as compared with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. In the case of transient tests our test equipment has been demonstrated by calibration to provide at least a 95% confidence that it complies with the test specification requirements. The measurement uncertainty for any test is available upon request.

TEST DESCRIPTION

The peak output power was measured with the EUT set to low, medium, and high transmit frequencies. The measurement was made using a direct connection between the RF output of the EUT and a spectrum analyzer. The EUT was transmitting in a no hop mode at its maximum data rate for each of the three different modulations available.

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

EMC

OUTPUT POWER

EUT:	CK3x with DHIB	Work Order:	INMC0479
Serial Number:	None	Date:	08/28/08
Customer:	Intermec Technologies Corporation	Temperature:	24°C
Attendees:	None	Humidity:	44%
Project:	None	Barometric Pres.:	30.16 in
Tested by:	Rod Peloquin	Power:	3.7 Vdc Battery
		Job Site:	EV06

TEST SPECIFICATIONS		Test Method
FCC 15.247 (DTS):2007		ANSI C63.4:2003 KDB No. 558074

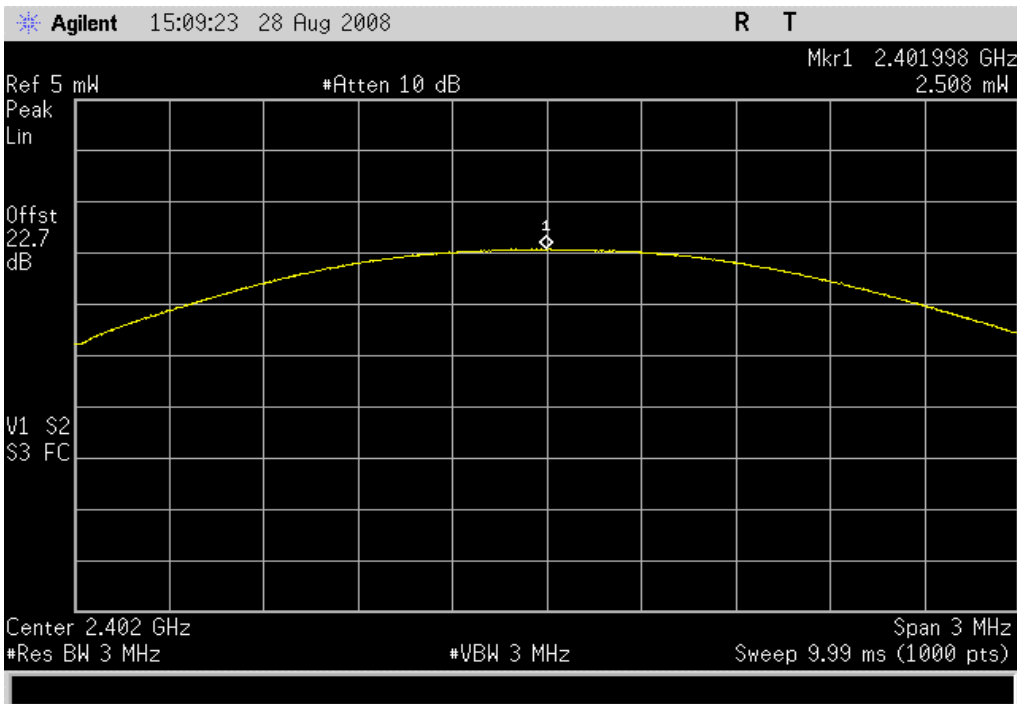
COMMENTS
CK3 SN:12110858075. 0.6 dB adapter cable loss

DEVIATIONS FROM TEST STANDARD
No Deviations

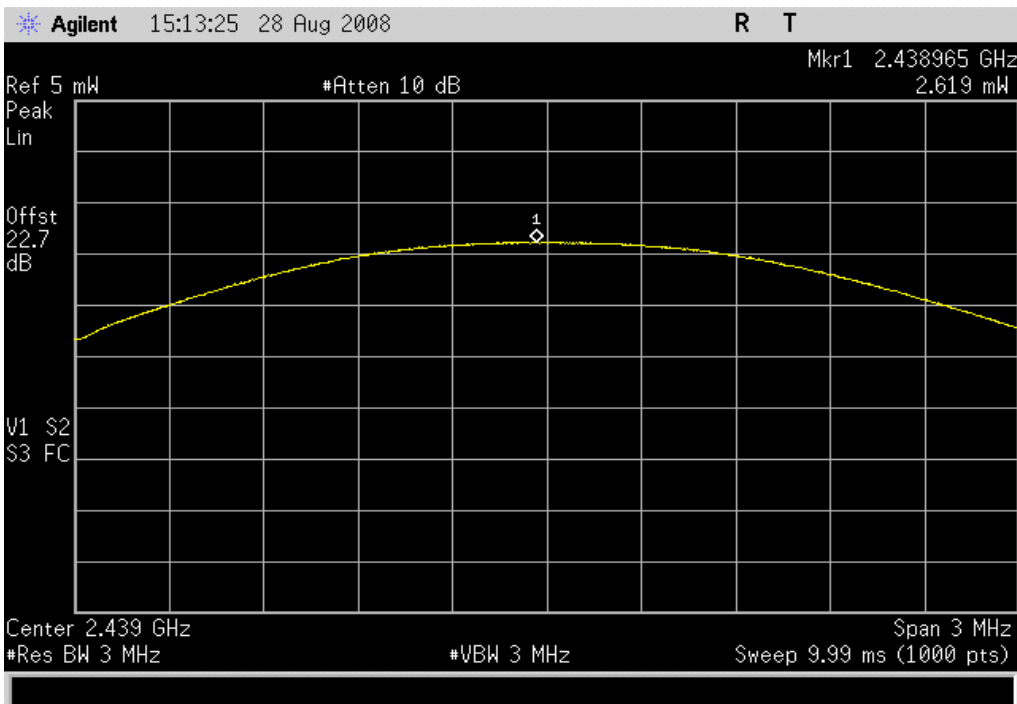
Configuration #	3	<i>Rod Peloquin</i> Signature
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		Value	Limit	Results
DH5, GFSK				
	Low Channel	2.5 mW	1 W	Pass
	Mid Channel	2.6 mW	1 W	Pass
	High Channel	2.6 mW	1 W	Pass
2DH5, 4-DQPSK				
	Low Channel	3.9 mW	1 W	Pass
	Mid Channel	4.0 mW	1 W	Pass
	High Channel	4.0 mW	1 W	Pass
3DH5, 8-DPSK				
	Low Channel	4.0 mW	1 W	Pass
	Mid Channel	4.3 mW	1 W	Pass
	High Channel	4.3 mW	1 W	Pass

DH5, GFSK, Low Channel
Result: Pass **Value:** 2.5 mW **Limit:** 1 W



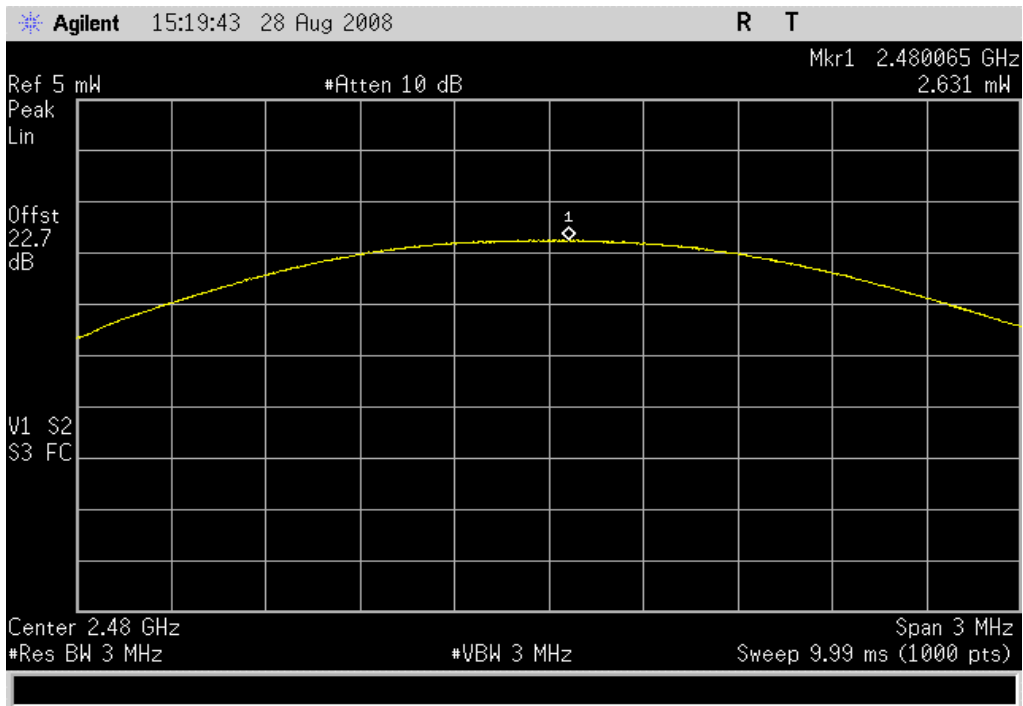
DH5, GFSK, Mid Channel
Result: Pass **Value:** 2.6 mW **Limit:** 1 W



OUTPUT POWER

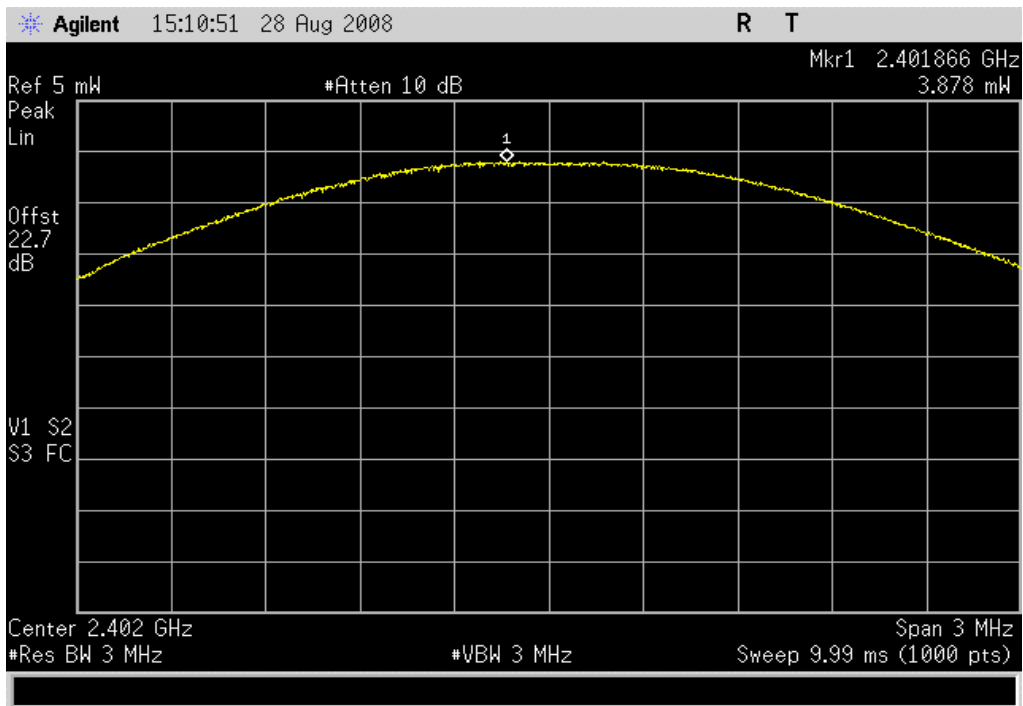
DH5, GFSK, High Channel

Result: Pass **Value:** 2.6 mW **Limit:** 1 W

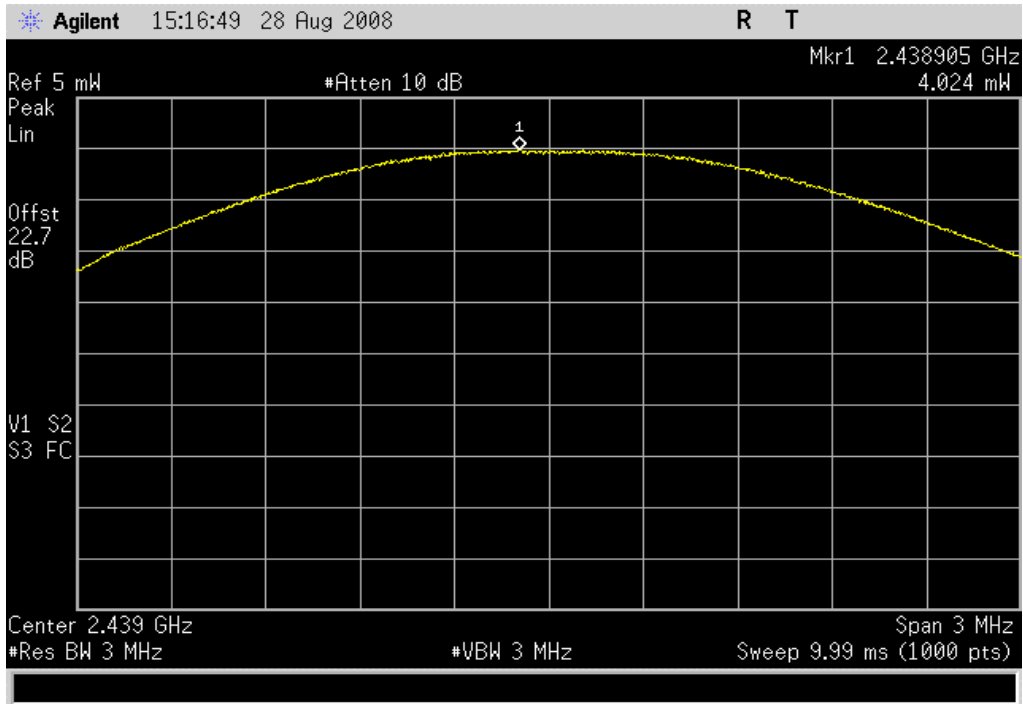


2DH5, 4-QPSK, Low Channel

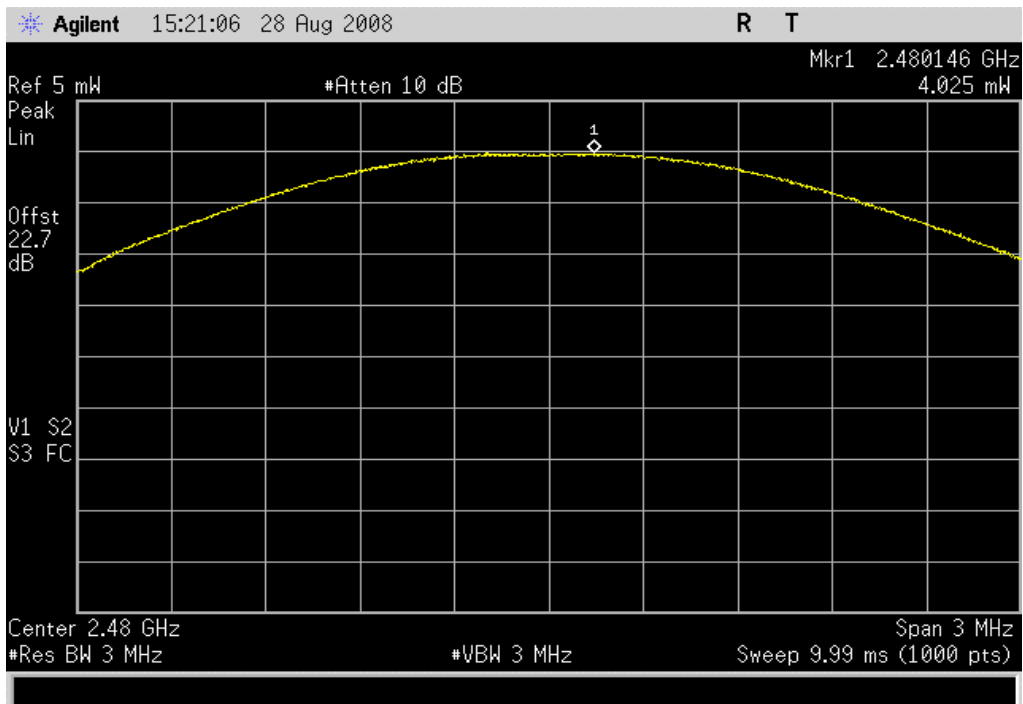
Result: Pass **Value:** 3.9 mW **Limit:** 1 W



2DH5, 4-DQPSK, Mid Channel
Result: Pass **Value:** 4.0 mW **Limit:** 1 W

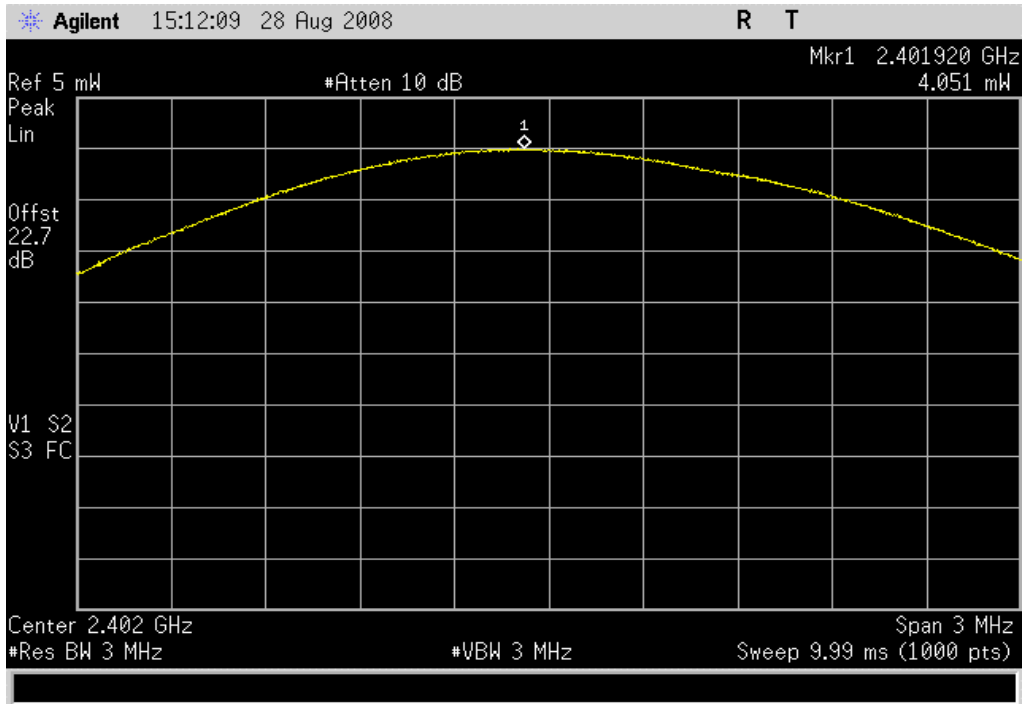


2DH5, 4-DQPSK, High Channel
Result: Pass **Value:** 4.0 mW **Limit:** 1 W

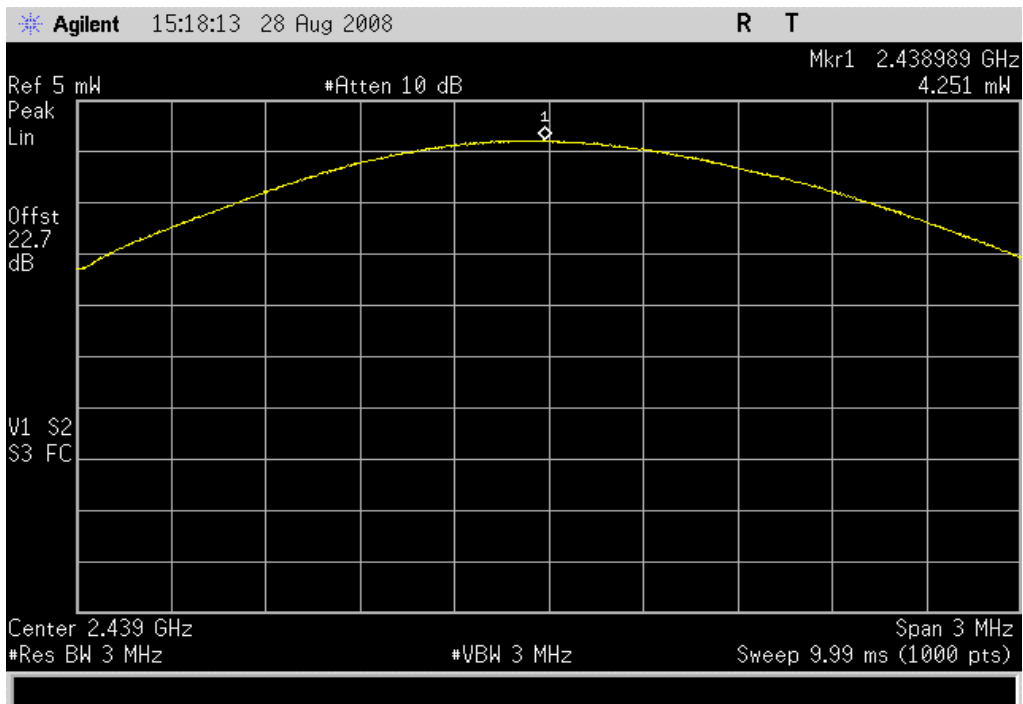


OUTPUT POWER

3DH5, 8-DPSK, Low Channel
Result: Pass **Value: 4.0 mW** **Limit: 1 W**



3DH5, 8-DPSK, Mid Channel
Result: Pass **Value: 4.3 mW** **Limit: 1 W**

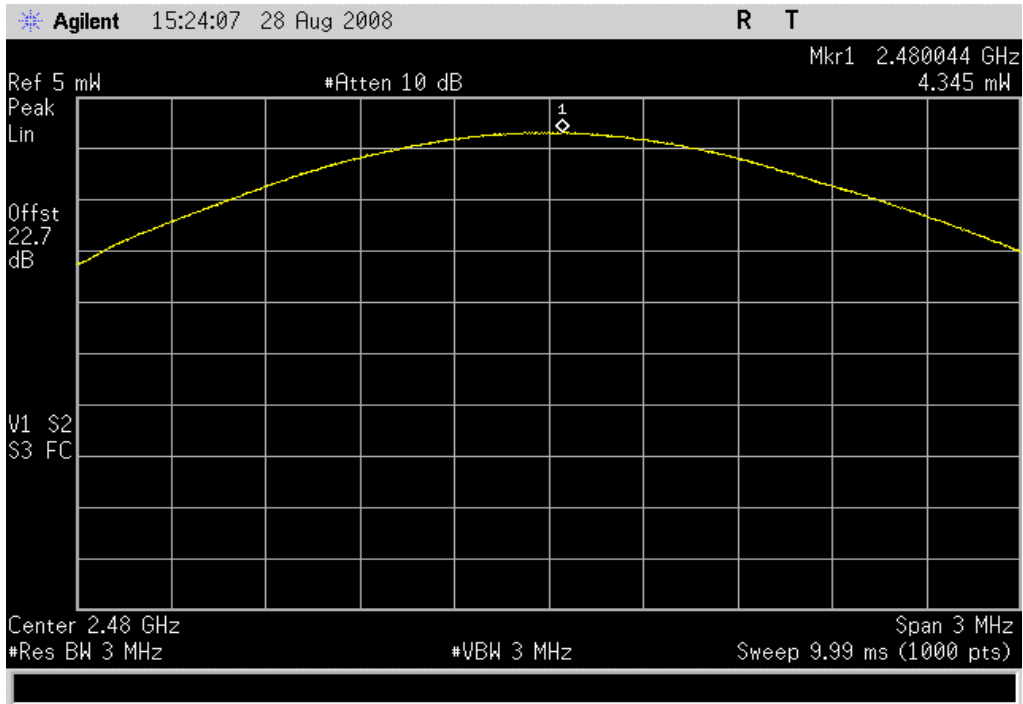


3DH5, 8-DPSK, High Channel

Result: Pass

Value: 4.3 mW

Limit: 1 W



1 W

