

Intermec Technologies Corporation

Model: RC12

Tested to the following Specifications:

**FCC 15.407:2010
FCC 15.207:2010**

Report No. INMC0575.3

Report Prepared By



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

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EMC Test Report

Certificate of Test

Last Date of Test: August 11, 2010
Intermec Technologies Corporation
Model: RC12

Emissions			
Test Description	Specification	Test Method	Pass/Fail
Spurious Radiated Emissions	FCC 15.407:2010	ANSI C63.10:2009	Pass
Spurious Radiated Emissions	FCC 15.209:2010	ANSI C63.4:2003	Pass
Peak Power Spectral Density	FCC 15.407:2010	ANSI C63.10:2009	Pass
Peak Transmit Power	FCC 15.407:2010	ANSI C63.10:2009	Pass
Emission Bandwidth	FCC 15.407:2010	ANSI C63.10:2009	Pass
Peak Excursion	FCC 15.407:2010	ANSI C63.10:2009	Pass
AC Powerline Conducted Emissions	FCC 15.207:2010	ANSI C63.10:2009	Pass
Frequency Stability	FCC 15.407:2010	ANSI C63.10:2009	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-2).

Approved By:



Don Facticeau, IS Manager



NVLAP Lab Code: 200630-0

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		

Barometric Pressure

The recorded barometric pressure has been normalized to sea level.



Accreditations and Authorizations

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
NVLAP LAB CODE 200881-0

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, Brooklyn Park: 2834E-1*)



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.



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, G-84, C-2687, T-1658, and R-2318, Irvine: R-1943, G-85, C-2766, and T-1659, Sultan: R-871, G-83, C-1784, and T-1511, Brooklyn Park: R-3125, G-86, G-141, C-3464, and T-1634).



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



KCC

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



VIETNAM

Vietnam MIC has approved Northwest EMC as an accredited test lab. Per Decision No. 194/QD-QLCL (dated December 15, 2009), Northwest EMC test reports can be used for Vietnam approval submissions.



SCOPE

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

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



Northwest EMC Locations



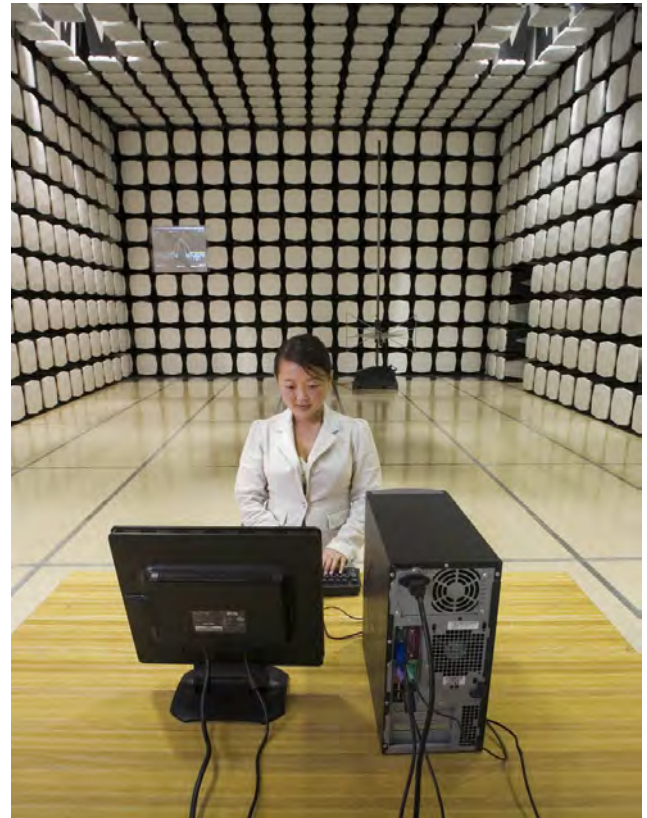
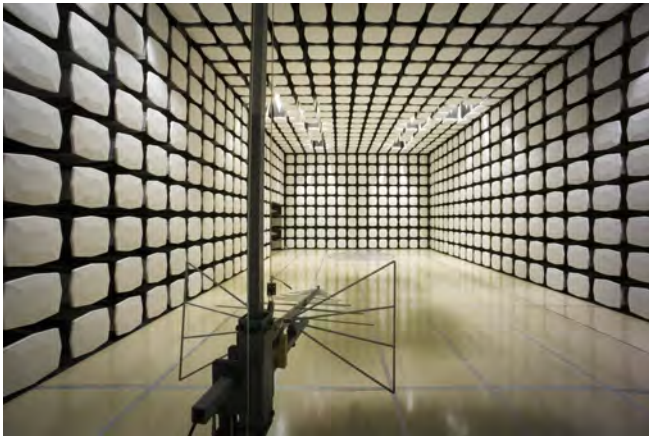
Oregon
Labs EV01-EV12
22975 NW Evergreen Pkwy
Suite 400
Hillsboro, OR 97124
(503) 844-4066

California
Labs OC01-OC13
41 Tesla
Irvine, CA 92618
(949) 861-8918

Minnesota
Labs MN01-MN08
9349 W Broadway Ave.
Brooklyn Park,
MN 55445
(763) 425-2281

Washington
Labs SU01-SU07
14128 339th Ave. SE
Sultan, WA 98294
(360) 793-8675

New York
Labs WA01-WA04
4939 Jordan Rd.
Elbridge, NY 13060
(315) 685-0796



Party Requesting the Test

Company Name:	Intermec Technologies Corporation
Address:	6001 36th Avenue West
City, State, Zip:	Everett, WA 98203-1264
Test Requested By:	Wayne Rieger
Model:	RC12
First Date of Test:	August 11, 2010
Last Date of Test:	August 11, 2010
Receipt Date of Samples:	July 27, 2010
Equipment Design Stage:	Production
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test**Functional Description of the EUT (Equipment Under Test):**

One combination 802.11a/b/g/n - Bluetooth radio seeking modular approval.

Testing Objective:

Seeking to demonstrate compliance of the 802.11a/b/g/n portion of the radio module to FCC 15.407 specifications in the 5.2, 5.3, and 5.6 bands.

CONFIGURATION 1 INMC0575**Software/Firmware Running during test**

Description	Version
Regulatory Test Tool	RTT_1.01.00.0007

EUT

Description	Manufacturer	Model/Part Number	Serial Number
Galileo 802.11abgn and Bluetooth radio module	Intermec Technologies Corporation	ES5	R14

Peripherals in test setup boundary

Description	Manufacturer	Model/Part Number	Serial Number
Shuttle Board	Intermec Technologies Corporation	145-375-001	None
AC Adapter	Intermec Technologies Corporation	074749	None
Laird PIFA Antenna	Laird	CAF94400	None
Modular Antenna PCB Assembly	Centurion Wireless Technologies, Inc.	CAF94337	None
Power Supply	Topward Electric Instruments Co., LTD.	TPS-2000	946425

Remote Equipment Outside of Test Setup Boundary

Description	Manufacturer	Model/Part Number	Serial Number
Remote PC	Dell	Latitude D600	3XJ3H51

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC power	PA	1.85m	PA	AC Adapter	Shuttle Board
USB	Yes	5.0m	No	Shuttle Board	Remote PC

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

CONFIGURATION 2 INMC0575**Software/Firmware Running during test**

Description	Version
Regulatory Test Tool	RTT_1.01.00.0007

EUT

Description	Manufacturer	Model/Part Number	Serial Number
Galileo 802.11abgn and Bluetooth radio module	Intermec Technologies Corporation	ES5	R11

Peripherals in test setup boundary

Description	Manufacturer	Model/Part Number	Serial Number
Shuttle Board	Intermec Technologies Corporation	145-375-001	None
AC Adapter	Intermec Technologies Corporation	074749	None
Laird PIFA Antenna	Laird	CAF94400	None
Modular Antenna PCB Assembly	Centurion Wireless Technologies, Inc.	CAF94337	None
Power Supply	Topward Electric Instruments Co., LTD.	TPS-2000	946425

Remote Equipment Outside of Test Setup Boundary

Description	Manufacturer	Model/Part Number	Serial Number
Remote PC	Dell	Inspiron 6000	NW EMC IS386

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC power	PA	1.85m	PA	AC Adapter	Shuttle Board
USB	Yes	3.0m	No	Shuttle Board	Remote PC

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

CONFIGURATION 3 INMC0575**Software/Firmware Running during test**

Description	Version
Regulatory Test Tool	RTT_1.01.00.0007

EUT

Description	Manufacturer	Model/Part Number	Serial Number
Galileo 802.11abgn and Bluetooth radio module	Intermec Technologies Corporation	ES5	R11

Peripherals in test setup boundary

Description	Manufacturer	Model/Part Number	Serial Number
Shuttle Board	Intermec Technologies Corporation	145-375-001	None
Laird PIFA Antenna	Laird	CAF94400	None
Modular Antenna PCB Assembly	Centurion Wireless Technologies, Inc.	CAF94337	None
Power Supply	Topward Electric Instruments Co., LTD.	TPS-2000	946425

Remote Equipment Outside of Test Setup Boundary

Description	Manufacturer	Model/Part Number	Serial Number
Remote PC	Dell	Inspiron 6000	NW EMC IS386

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
DC power	PA	0.55m	PA	Power Supply	Shuttle Board
AC power	No	1.0m	No	Power Supply	AC Mains
USB	Yes	3.0m	No	Shuttle Board	Remote PC

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	8/3/2010	Emission 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.
2	8/3/2010	Peak Transmit 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	8/4/2010	Peak 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.
4	8/5/2010	Peak Excursion	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	8/5/2010	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.
6	8/9/2010	Frequency Stability	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	8/11/2010	AC Powerline Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

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	E4440A	AFD	6/1/2009	24
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/21/2009	13
26 GHz DC Block, SMA	Pasternack	PE8210	AME	10/19/2009	13
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The transmit frequency was set to the lowest, a medium, and the highest channels in each band. The transmit power was set to its default maximum. The lowest, a medium, and the highest data rates were measured if available. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used.

The spectrum analyzer settings were as follows:

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

The PSA occupied bandwidth measurement function was used to measure the -26 dB emission bandwidth.

EMISSION BANDWIDTH

EMC

EUT: RC12	Work Order: INMC0575
Serial Number: R11	Date: 08/03/10
Customer: Intermec Technologies Corporation	Temperature: 22°C
Attendees: None	Humidity: 36%
Project: None	Barometric Pres.: 1013.0 mb
Tested by: Rod Peloquin	Power: 5VDC
	Job Site: EV06

TEST SPECIFICATIONS		Test Method
FCC 15.407:2010		ANSI C63.10:2009

COMMENTS
None

DEVIATIONS FROM TEST STANDARD
No Deviations

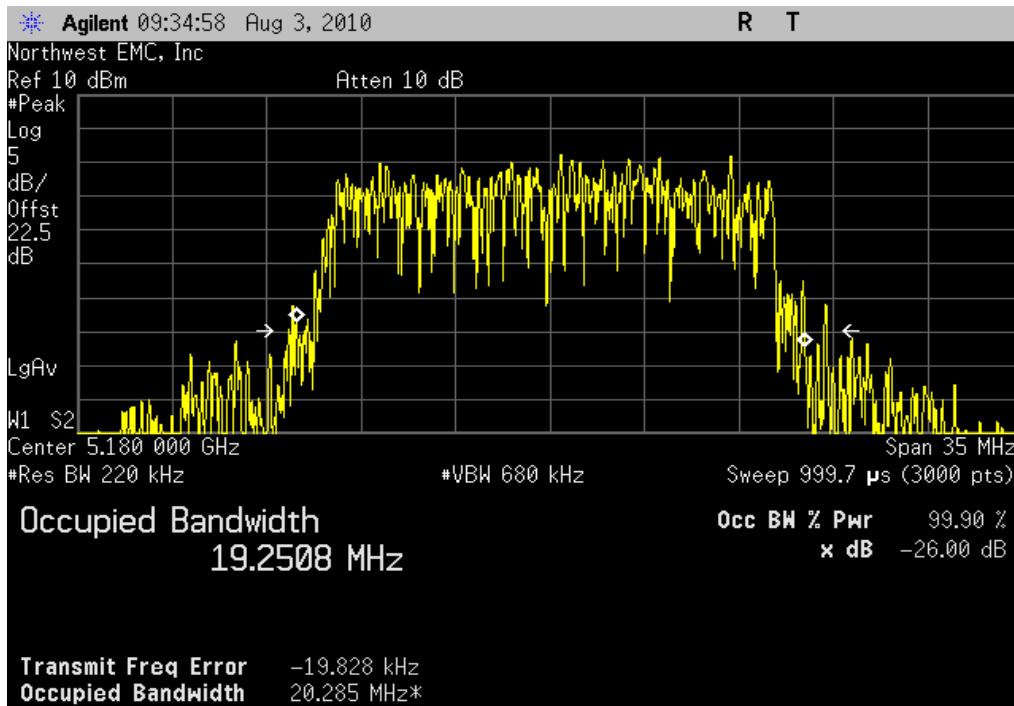
Configuration #	2	Signature 
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		Value	Limit	Results
802.11(a) 6 Mbps	5150 - 5250 MHz Band			
	Channel 36, Low Channel	20.285 MHz	N/A	N/A
	Channel 48, High Channel	20.349 MHz	N/A	N/A
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	20.280 MHz	N/A	N/A
	Channel 64, High Channel	20.253 MHz	N/A	N/A
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	20.271 MHz	N/A	N/A
	Channel 116, Mid Channel	20.384 MHz	N/A	N/A
	Channel 140, High Channel	20.306 MHz	N/A	N/A
802.11(a) 36 Mbps	5150 - 5250 MHz Band			
	Channel 36, Low Channel	19.753 MHz	N/A	N/A
	Channel 48, High Channel	19.838 MHz	N/A	N/A
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	19.848 MHz	N/A	N/A
	Channel 64, High Channel	19.928 MHz	N/A	N/A
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	19.945 MHz	N/A	N/A
	Channel 116, Mid Channel	19.599 MHz	N/A	N/A
	Channel 140, High Channel	19.583 MHz	N/A	N/A
802.11(a) 54 Mbps	5150 - 5250 MHz Band			
	Channel 36, Low Channel	19.732 MHz	N/A	N/A
	Channel 48, High Channel	19.467 MHz	N/A	N/A
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	19.922 MHz	N/A	N/A
	Channel 64, High Channel	19.564 MHz	N/A	N/A
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	19.513 MHz	N/A	N/A
	Channel 116, Mid Channel	19.627 MHz	N/A	N/A
	Channel 140, High Channel	19.631 MHz	N/A	N/A
802.11(n) MCS0	5150 - 5250 MHz Band			
	Channel 36, Low Channel	21.154 MHz	N/A	N/A
	Channel 48, High Channel	21.314 MHz	N/A	N/A
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	21.327 MHz	N/A	N/A
	Channel 64, High Channel	21.221 MHz	N/A	N/A
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	21.045 MHz	N/A	N/A
	Channel 116, Mid Channel	20.971 MHz	N/A	N/A
	Channel 140, High Channel	21.039 MHz	N/A	N/A
802.11(n) MCS7	5150 - 5250 MHz Band			
	Channel 36, Low Channel	20.423 MHz	N/A	N/A
	Channel 48, High Channel	20.704 MHz	N/A	N/A
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	20.324 MHz	N/A	N/A
	Channel 64, High Channel	20.369 MHz	N/A	N/A
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	20.458 MHz	N/A	N/A
	Channel 116, Mid Channel	20.254 MHz	N/A	N/A
	Channel 140, High Channel	20.459 MHz	N/A	N/A

EMISSION BANDWIDTH

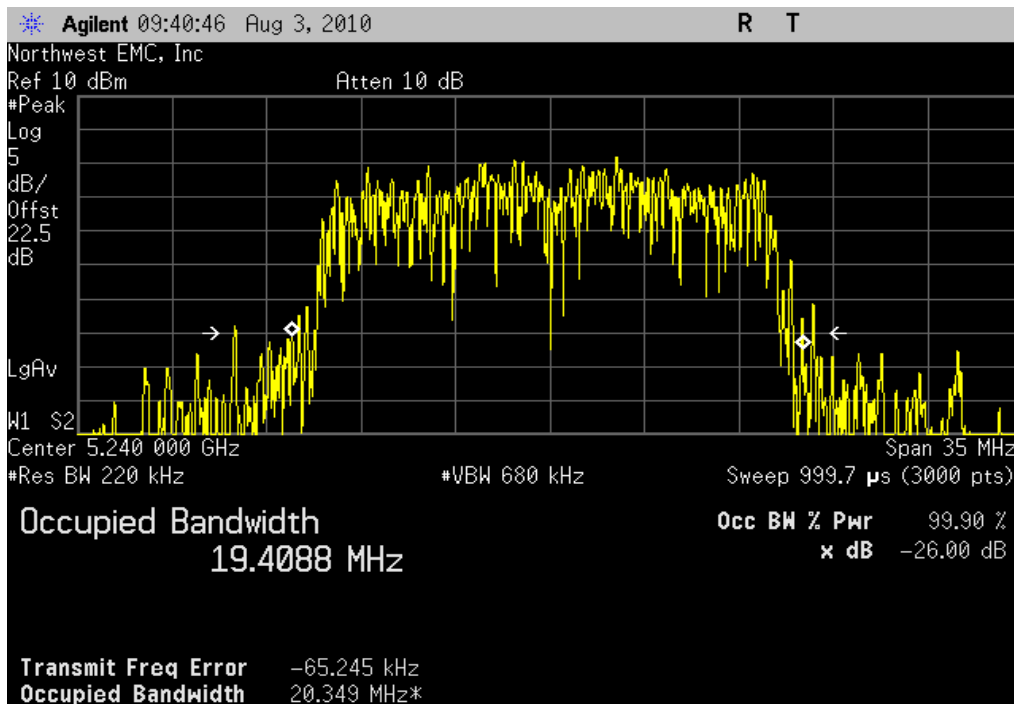
802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

Result: N/A	Value: 20.285 MHz	Limit: N/A
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802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel

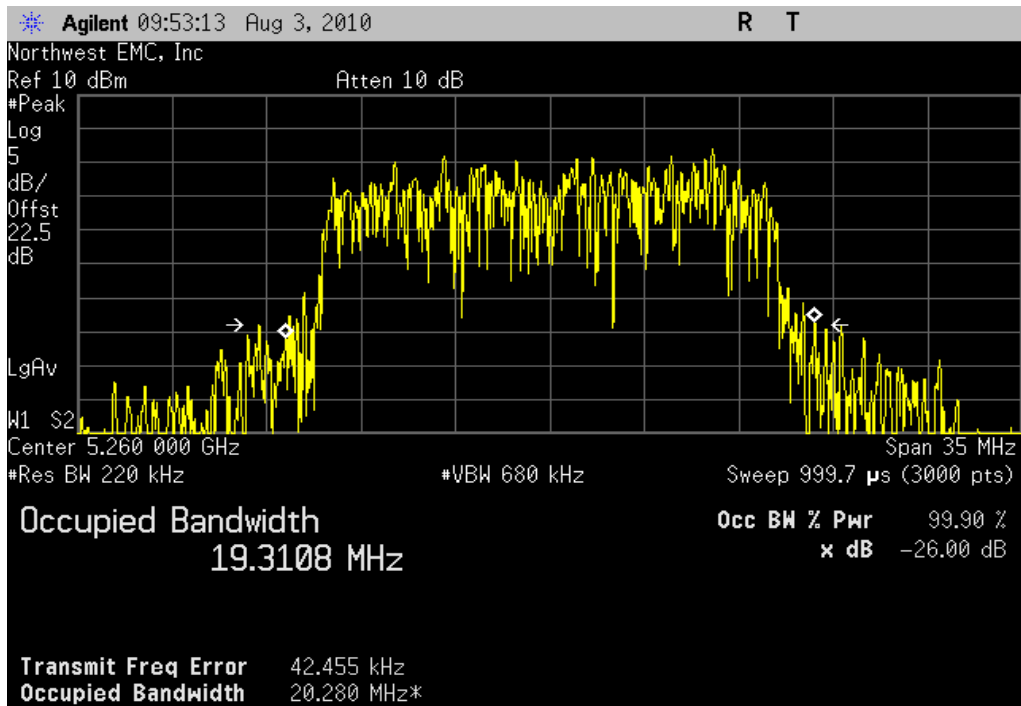
Result: N/A	Value: 20.349 MHz	Limit: N/A
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EMISSION BANDWIDTH

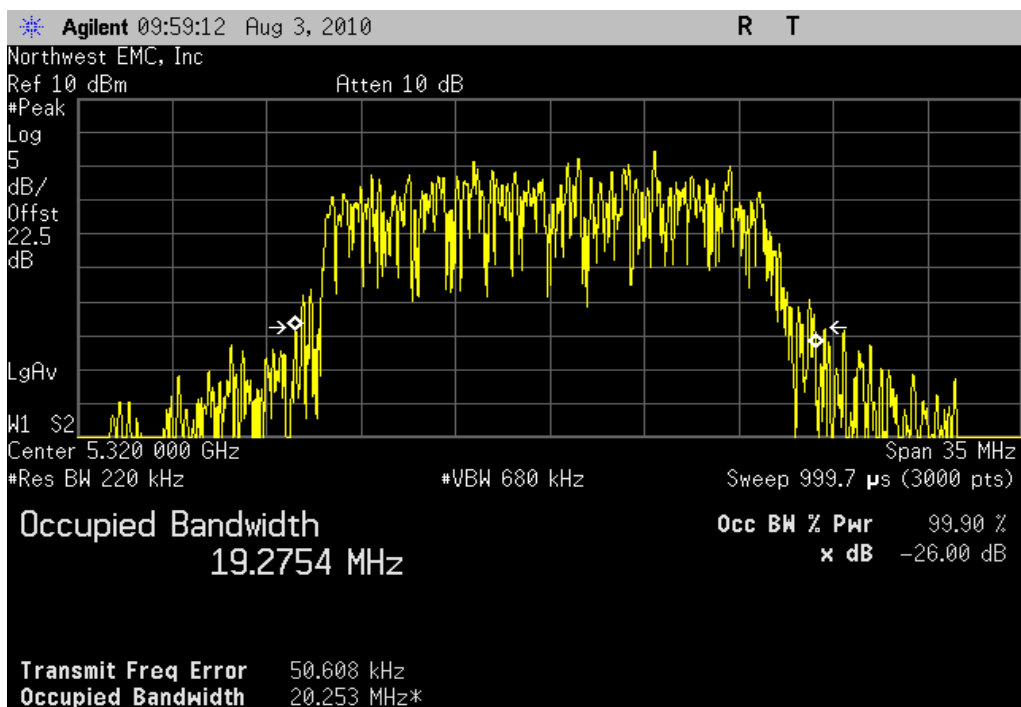
802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel

Result: N/A	Value: 20.280 MHz	Limit: N/A
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802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel

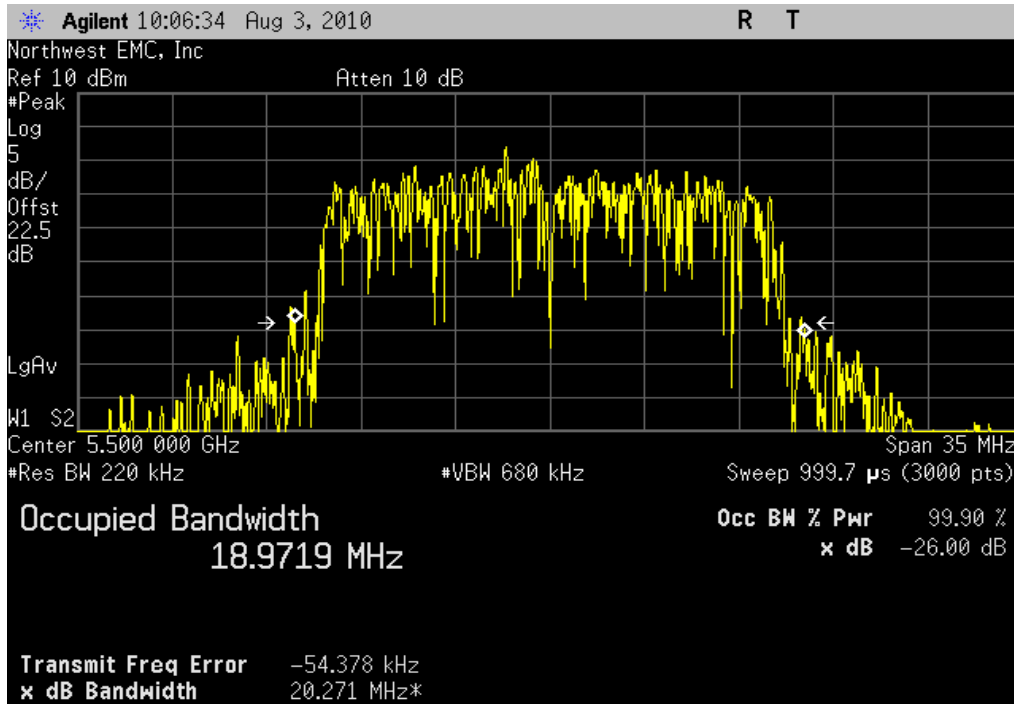
Result: N/A	Value: 20.253 MHz	Limit: N/A
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EMISSION BANDWIDTH

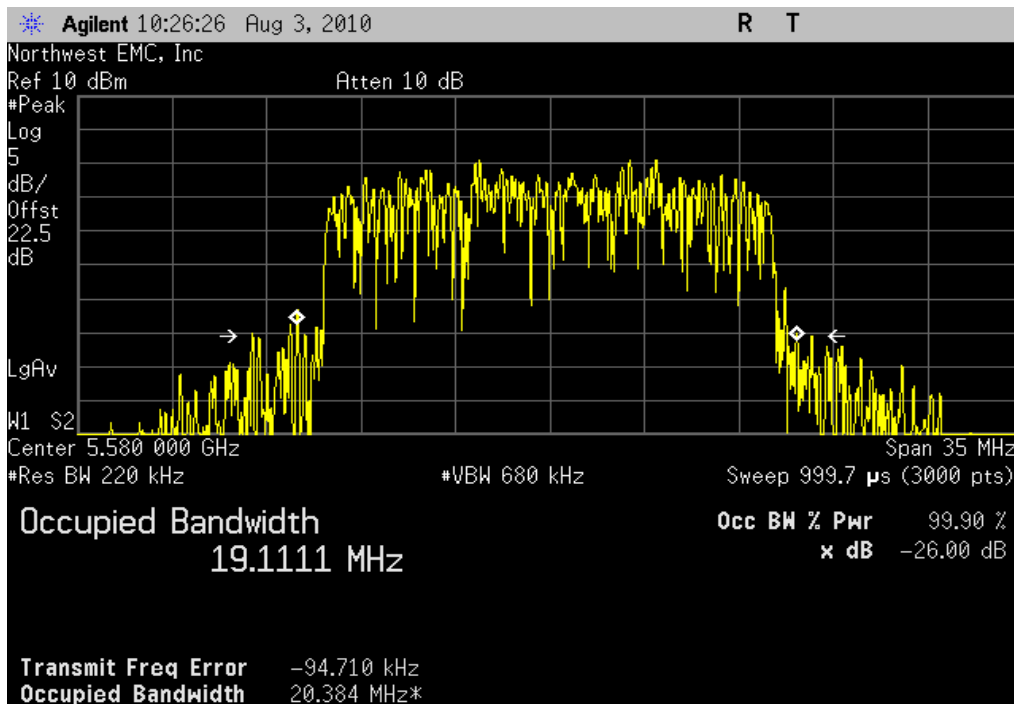
802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel

Result: N/A	Value: 20.271 MHz	Limit: N/A
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802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel

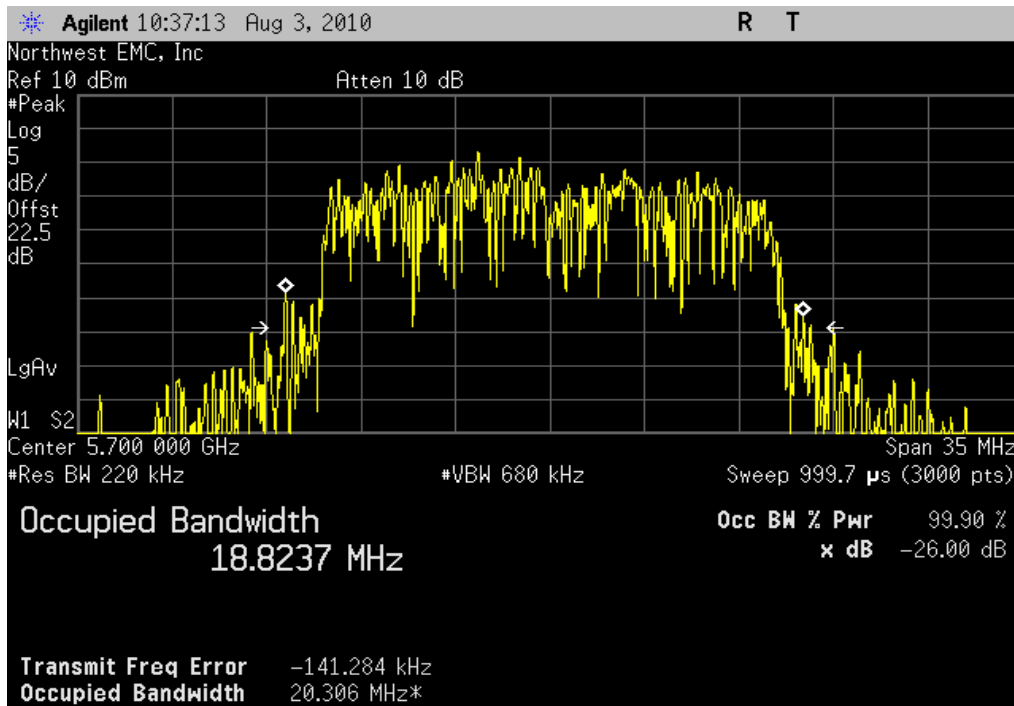
Result: N/A	Value: 20.384 MHz	Limit: N/A
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EMISSION BANDWIDTH

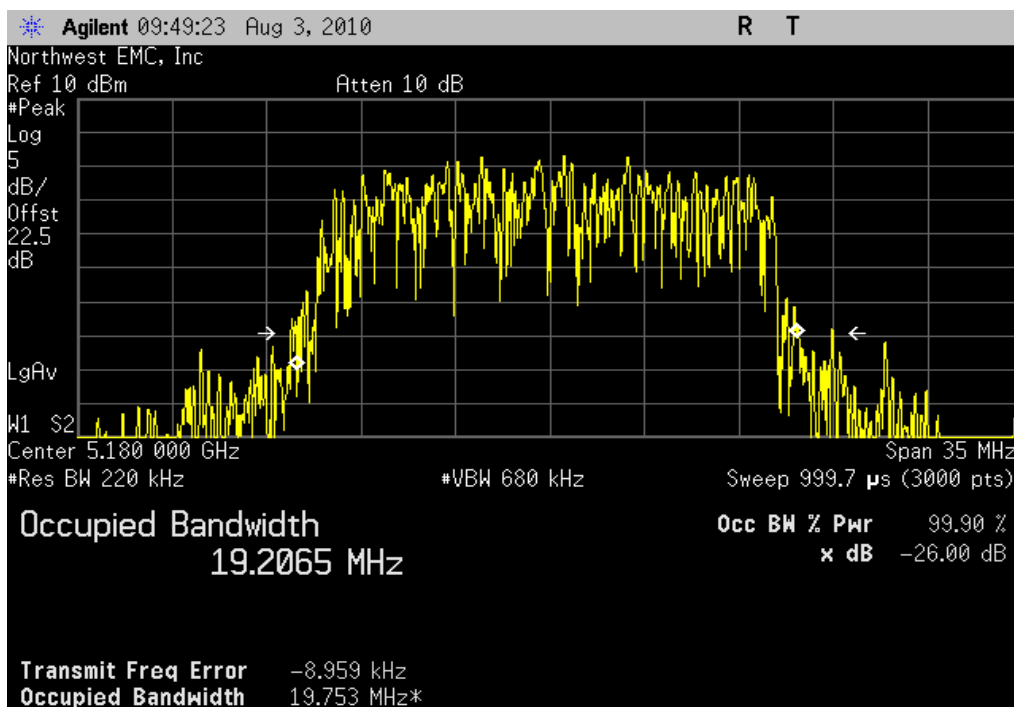
802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

Result: N/A **Value:** 20.306 MHz **Limit:** N/A



802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

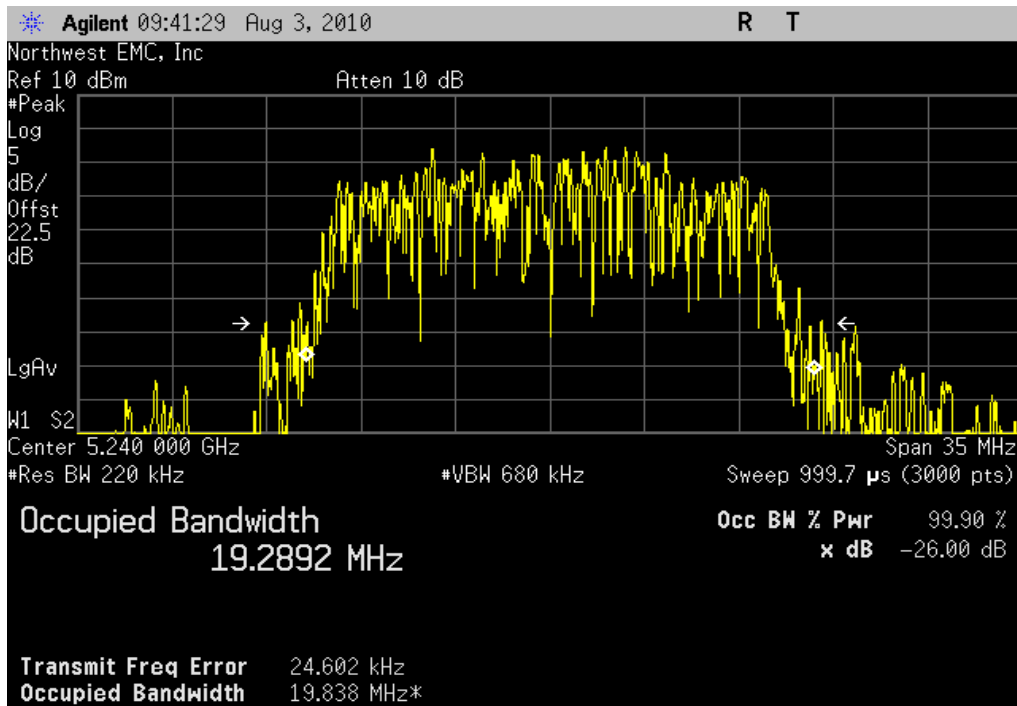
Result: N/A **Value:** 19.753 MHz **Limit:** N/A



EMISSION BANDWIDTH

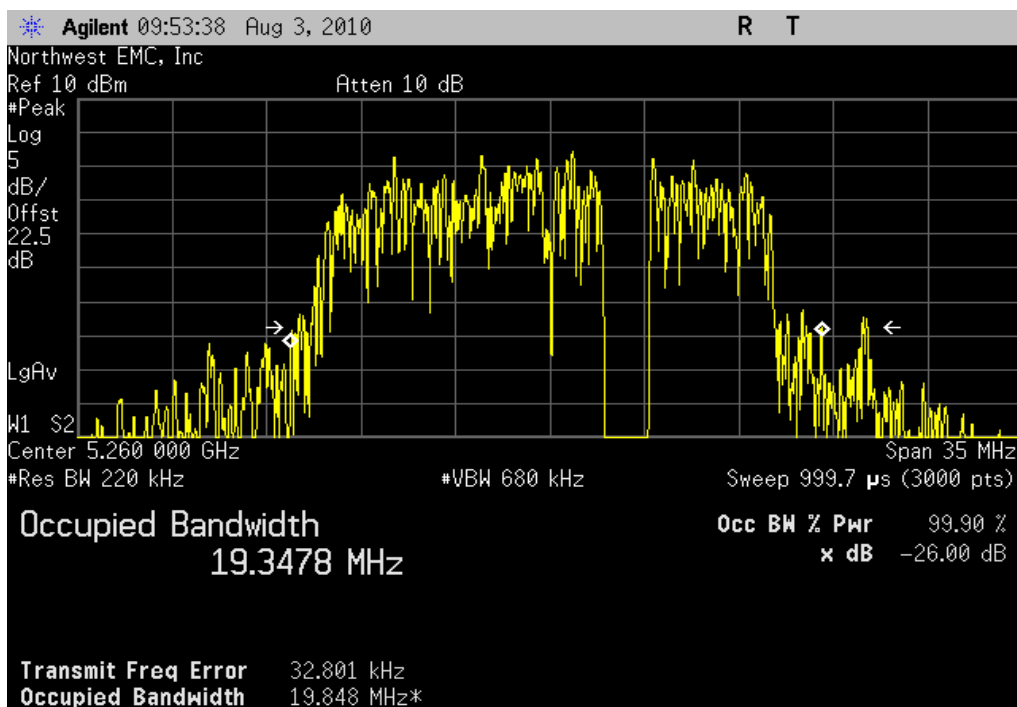
802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel

Result: N/A **Value:** 19.838 MHz **Limit:** N/A



802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel

Result: N/A **Value:** 19.848 MHz **Limit:** N/A

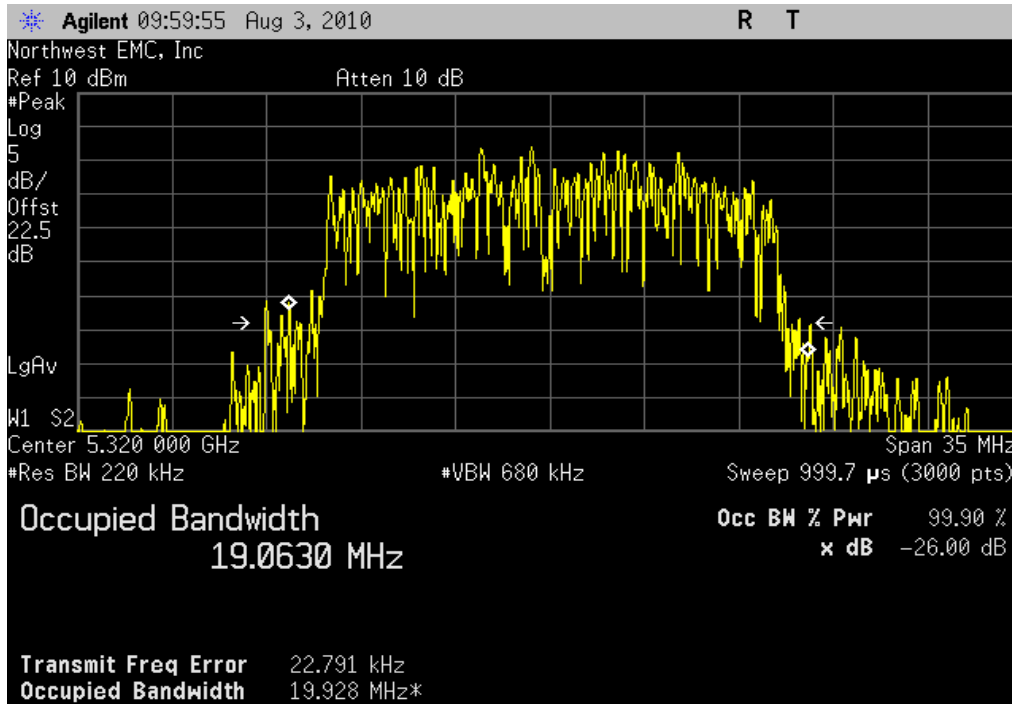


EMC

EMISSION BANDWIDTH

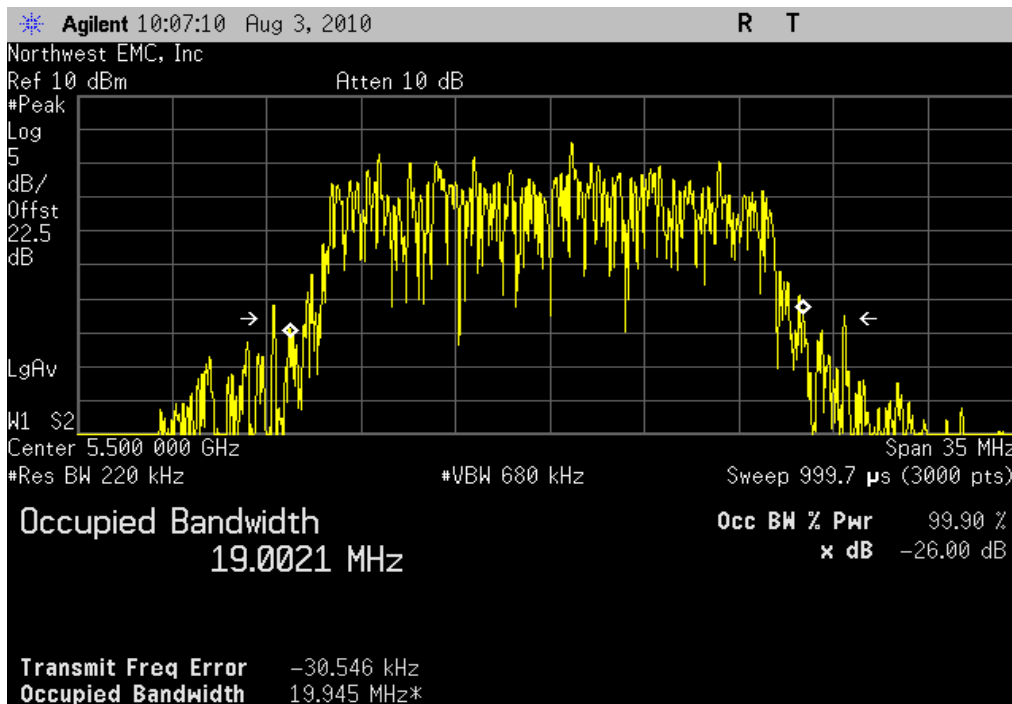
802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel

Result: N/A	Value: 19.928 MHz	Limit: N/A
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802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel

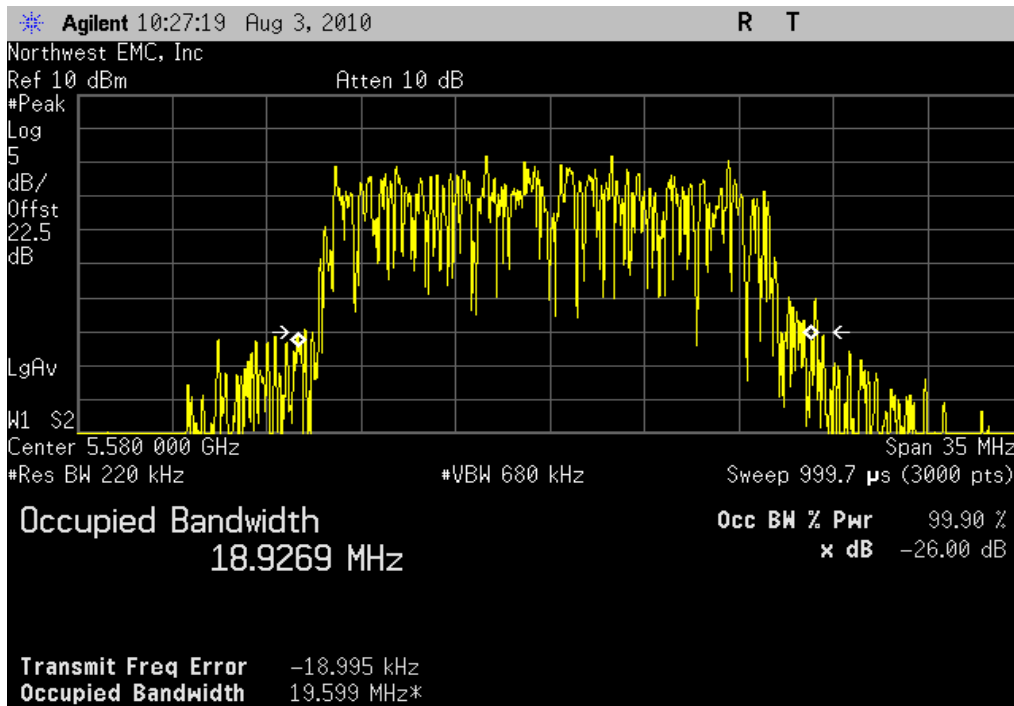
Result: N/A	Value: 19.945 MHz	Limit: N/A
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EMISSION BANDWIDTH

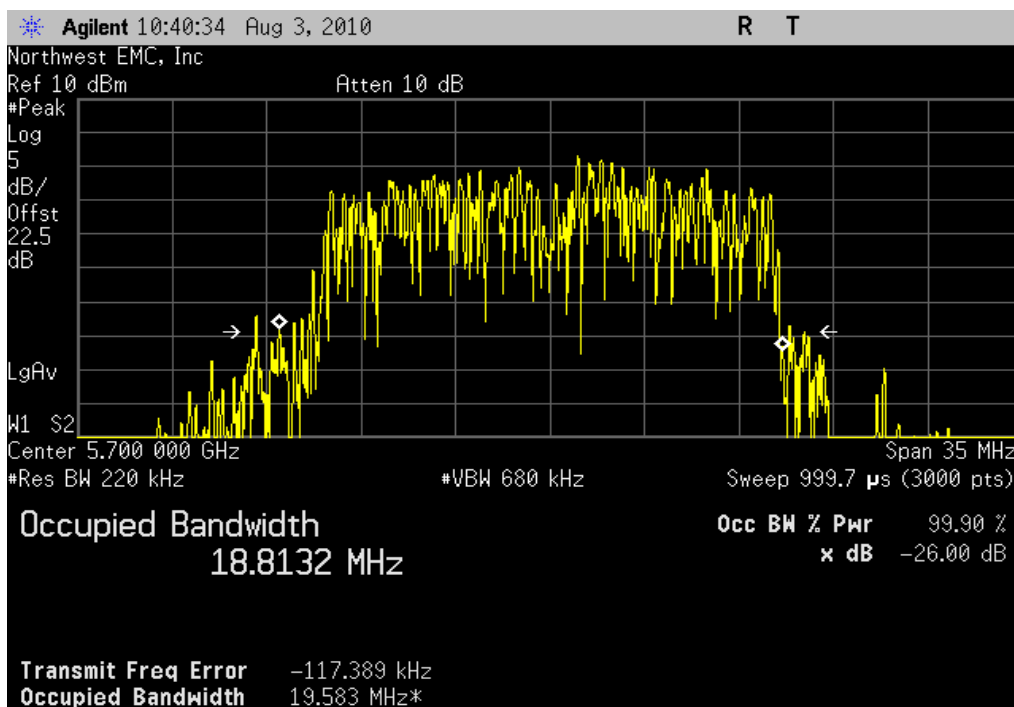
802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel

Result: N/A	Value: 19.599 MHz	Limit: N/A
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802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

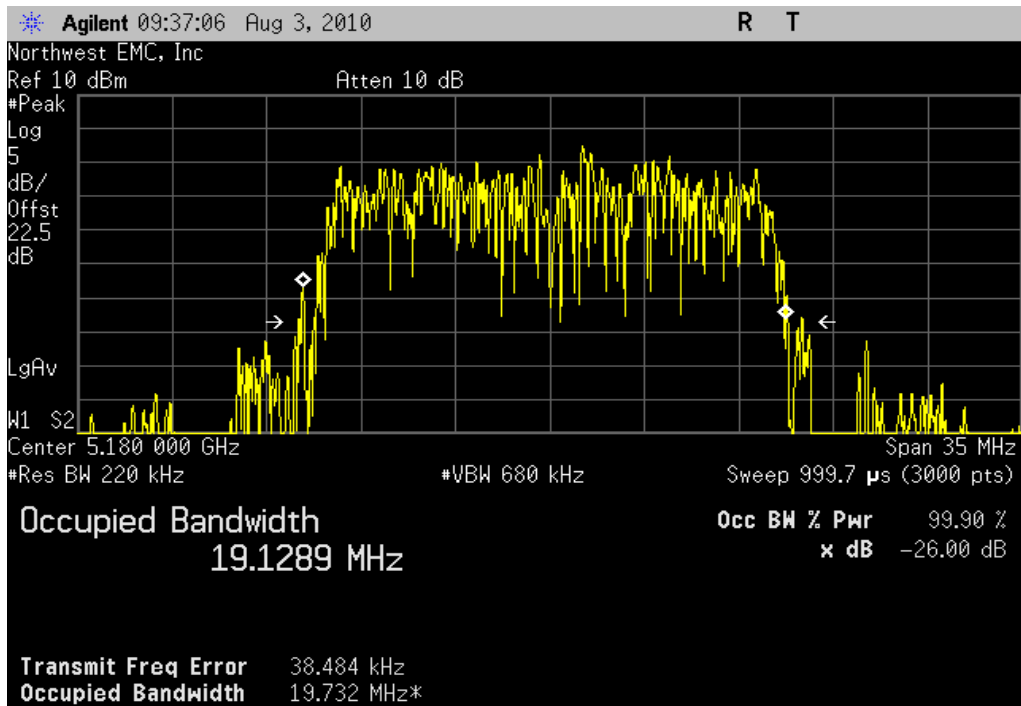
Result: N/A	Value: 19.583 MHz	Limit: N/A
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EMISSION BANDWIDTH

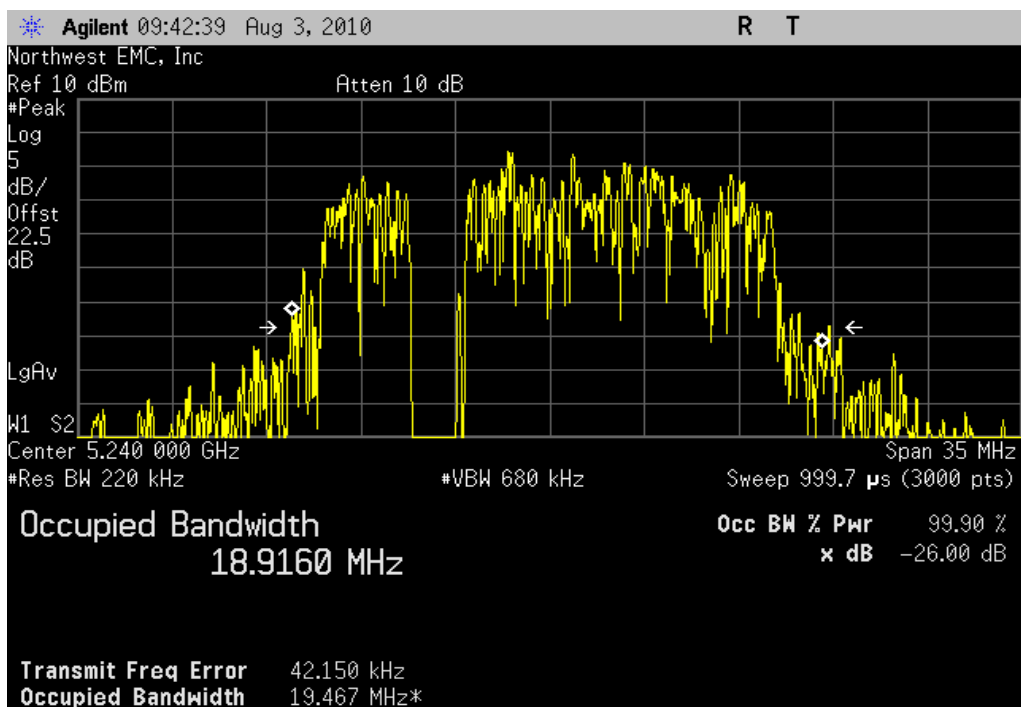
802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

Result: N/A	Value: 19.732 MHz	Limit: N/A
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802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel

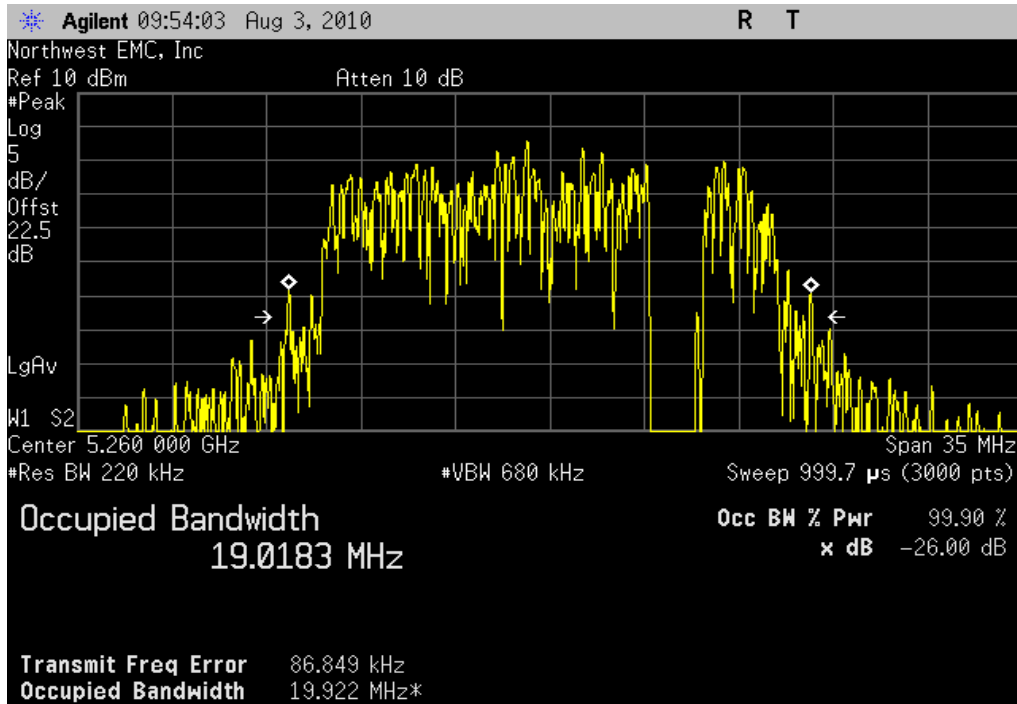
Result: N/A	Value: 19.467 MHz	Limit: N/A
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EMISSION BANDWIDTH

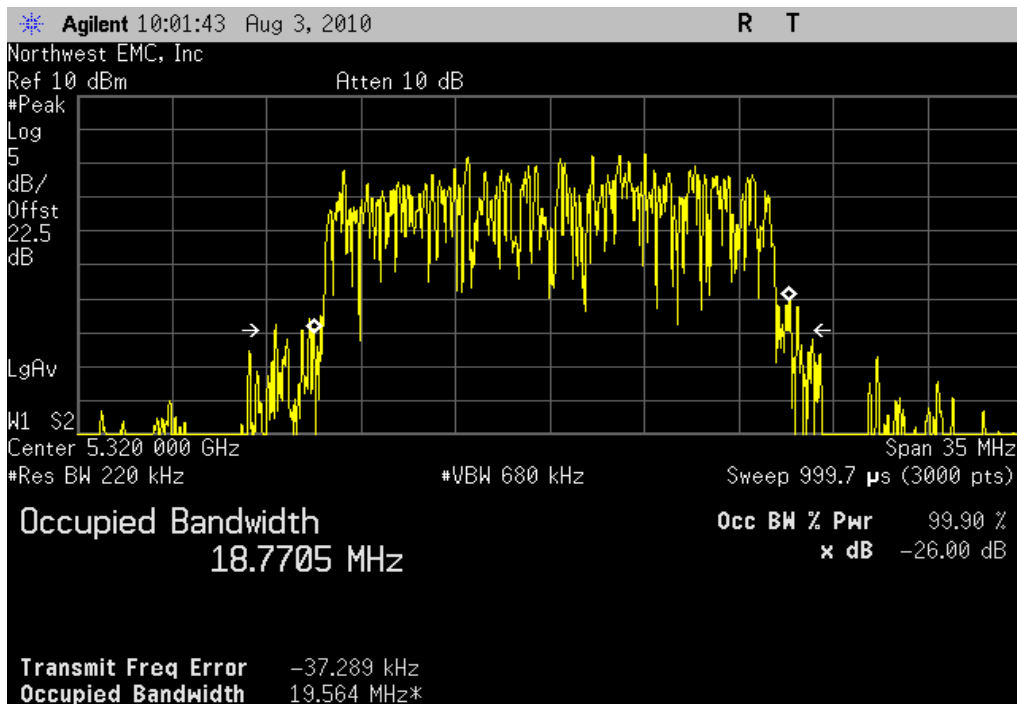
802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel

Result: N/A	Value: 19.922 MHz	Limit: N/A
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802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel

Result: N/A	Value: 19.564 MHz	Limit: N/A
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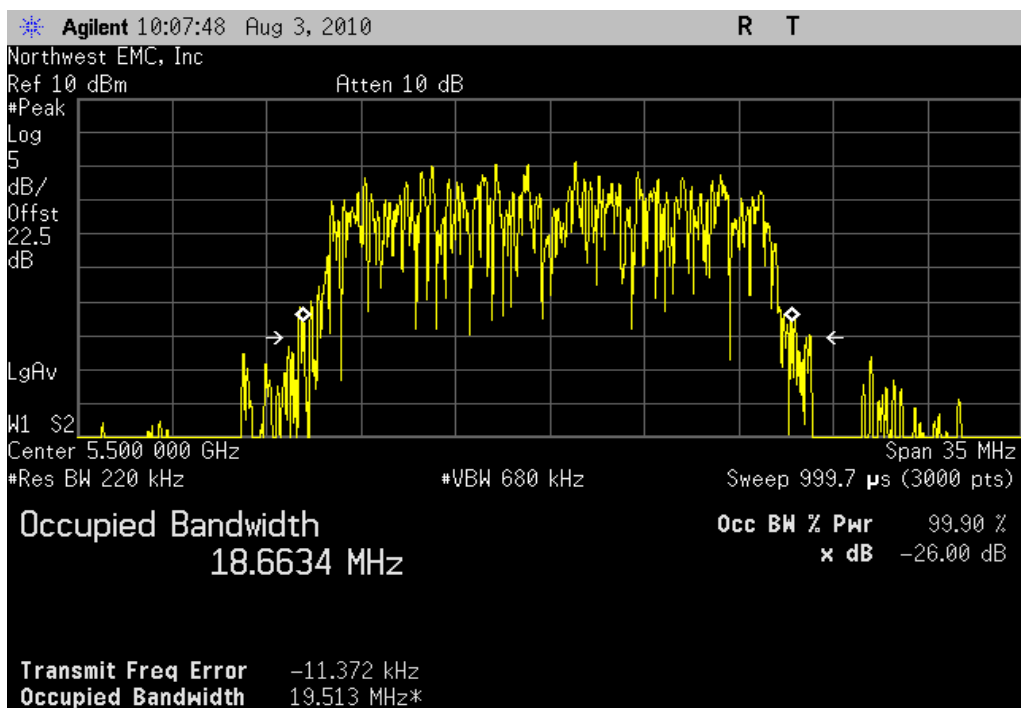
EMISSION BANDWIDTH

802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel

Result: N/A

Value: 19.513 MHz

Limit: N/A

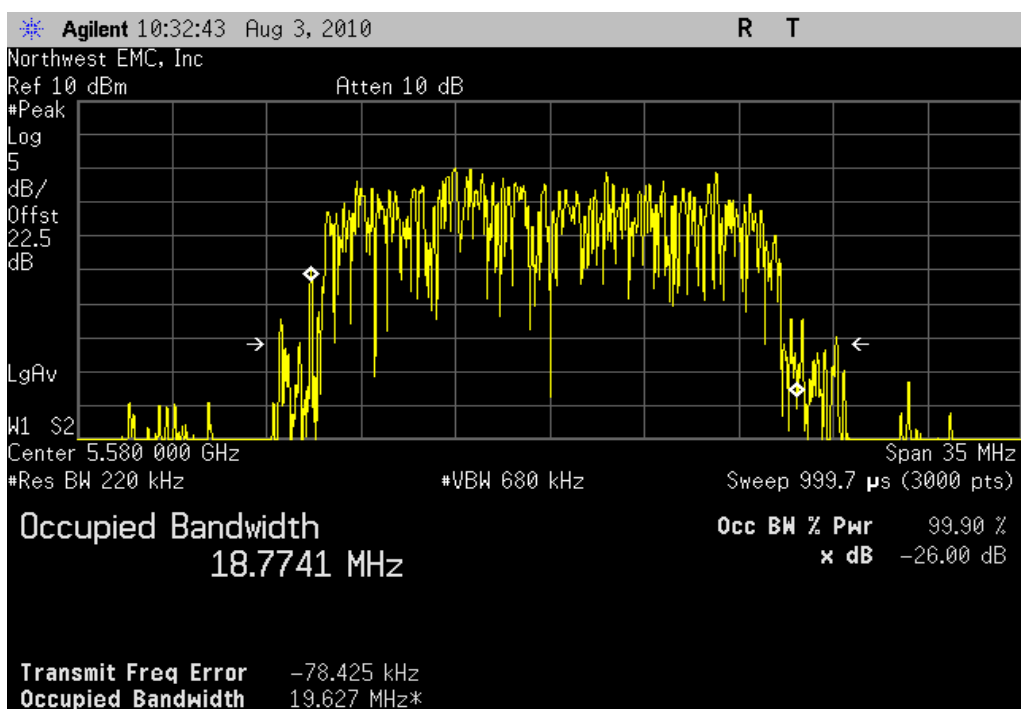


802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel

Result: N/A

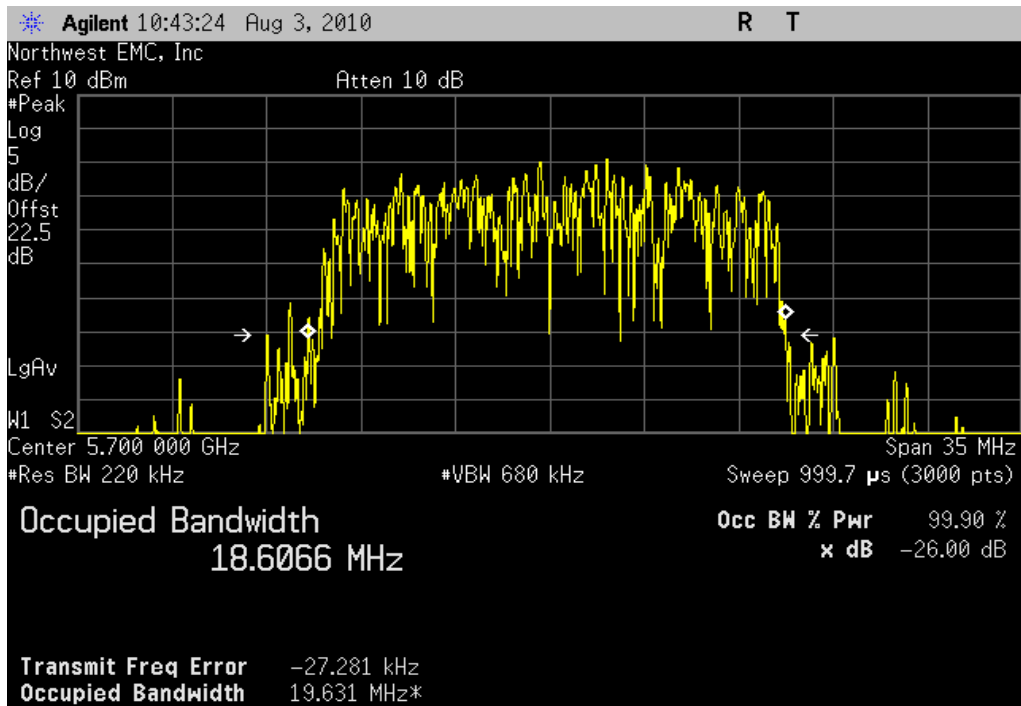
Value: 19.627 MHz

Limit: N/A



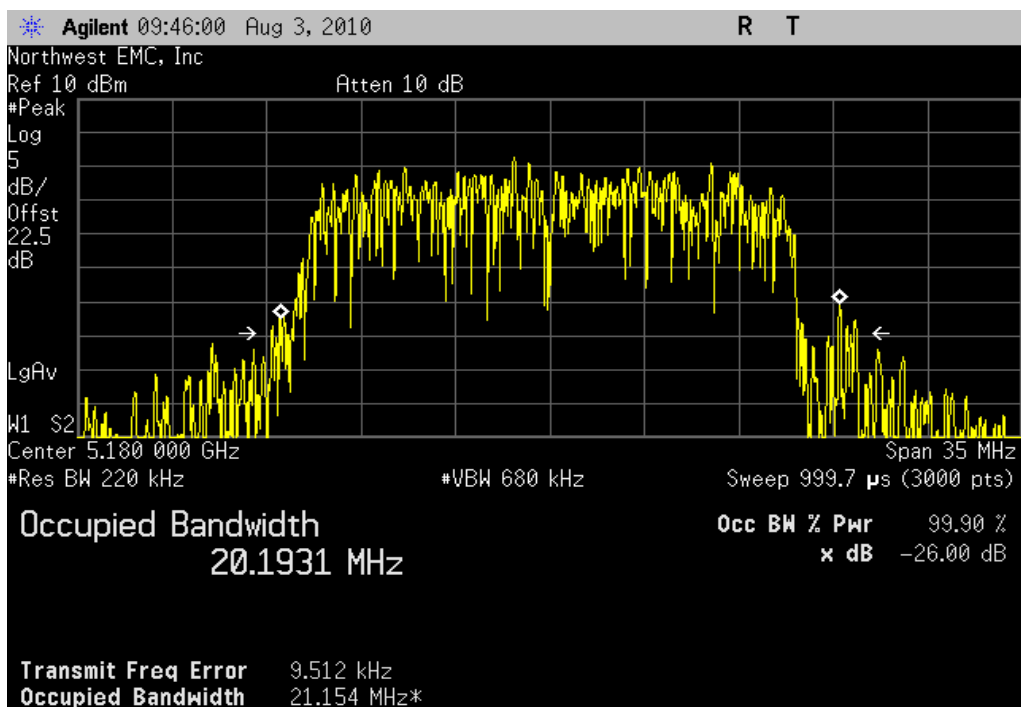
802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

Result: N/A	Value: 19.631 MHz	Limit: N/A
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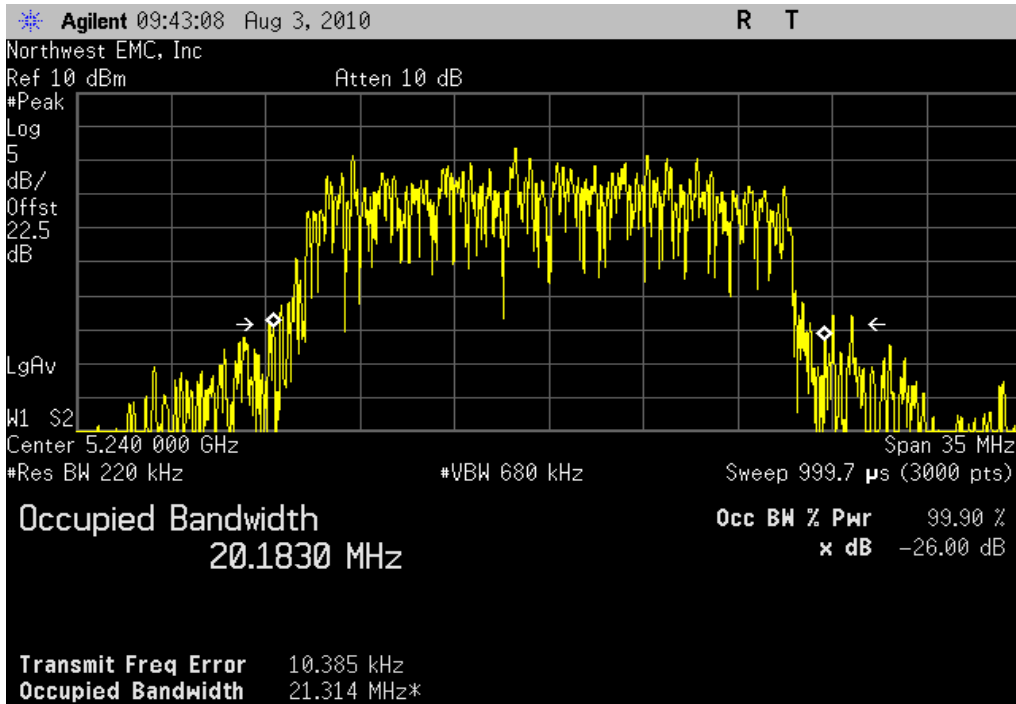
802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 36, Low Channel

Result: N/A	Value: 21.154 MHz	Limit: N/A
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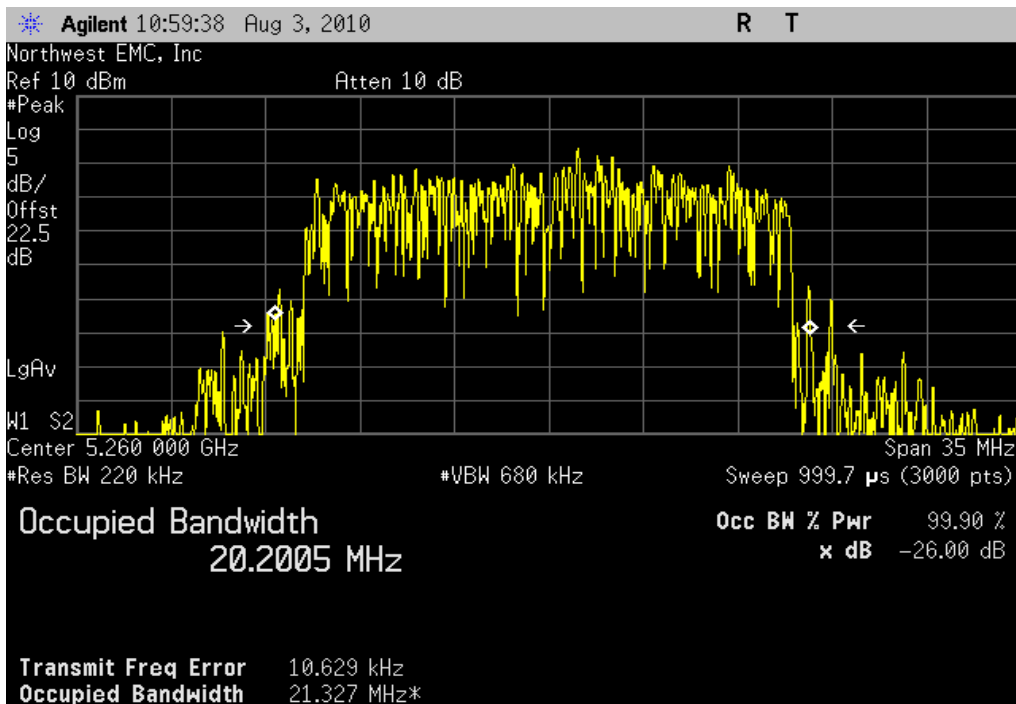
802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 48, High Channel

Result: N/A	Value: 21.314 MHz	Limit: N/A
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802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 52, Low Channel

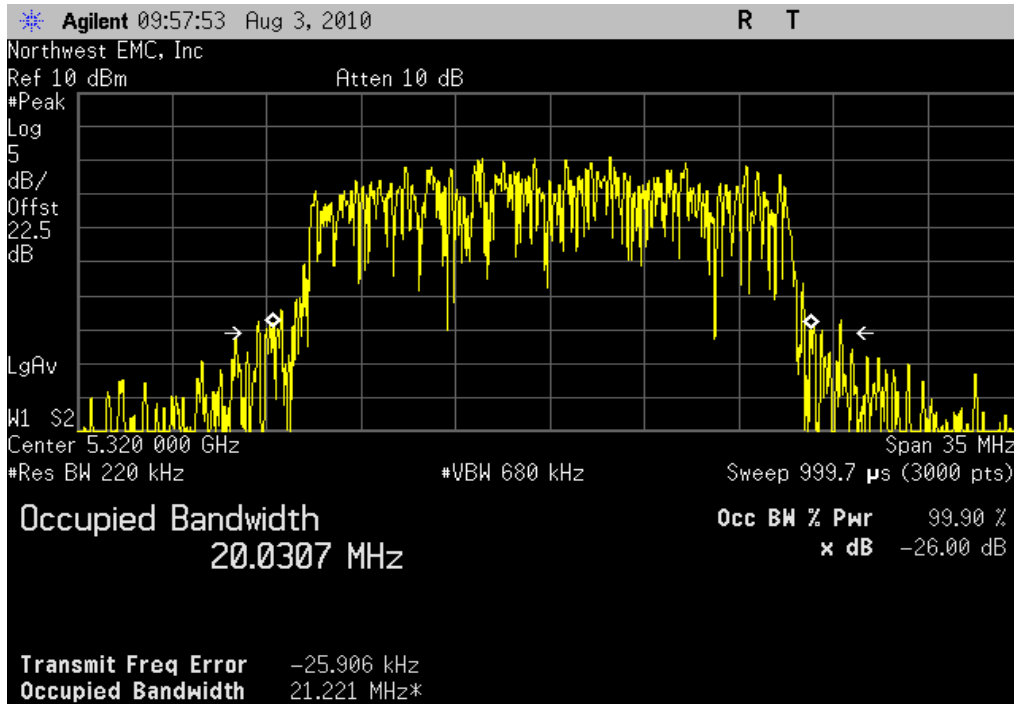
Result: N/A	Value: 21.327 MHz	Limit: N/A
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EMISSION BANDWIDTH

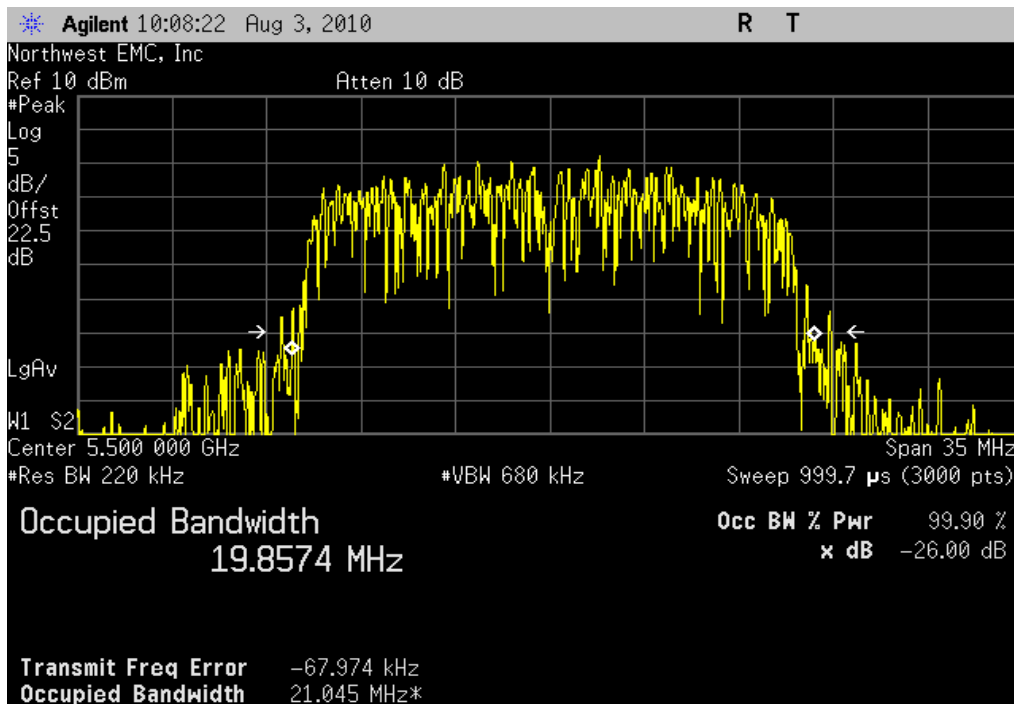
802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 64, High Channel

Result: N/A	Value: 21.221 MHz	Limit: N/A
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802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 100, Low Channel

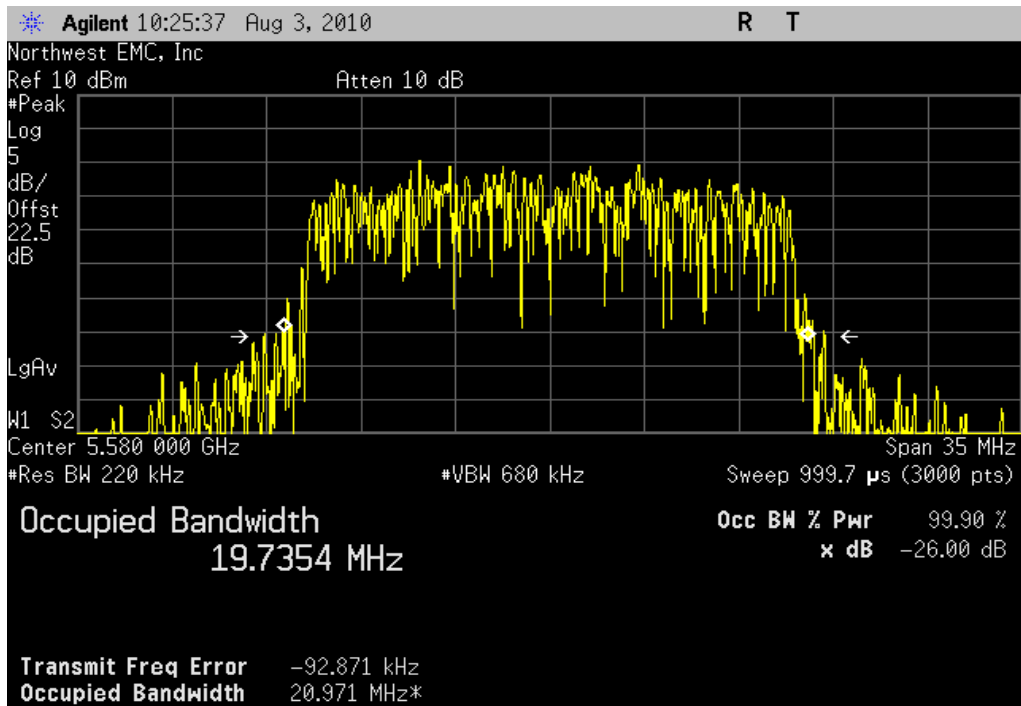
Result: N/A	Value: 21.045 MHz	Limit: N/A
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EMISSION BANDWIDTH

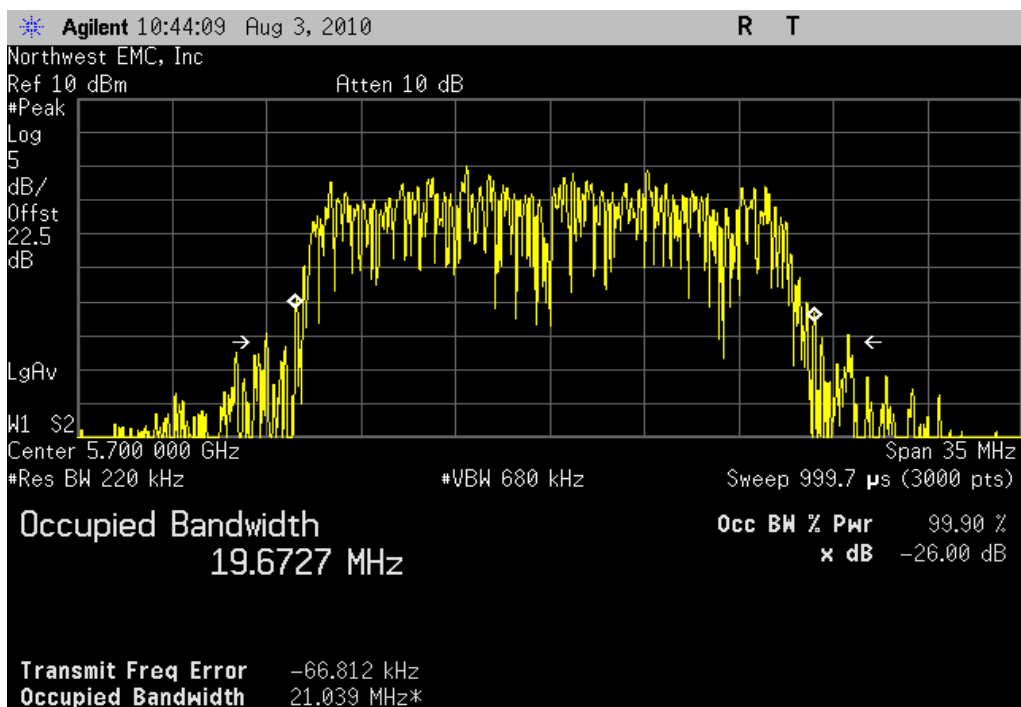
802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 116, Mid Channel

Result: N/A	Value: 20.971 MHz	Limit: N/A
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802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 140, High Channel

Result: N/A	Value: 21.039 MHz	Limit: N/A
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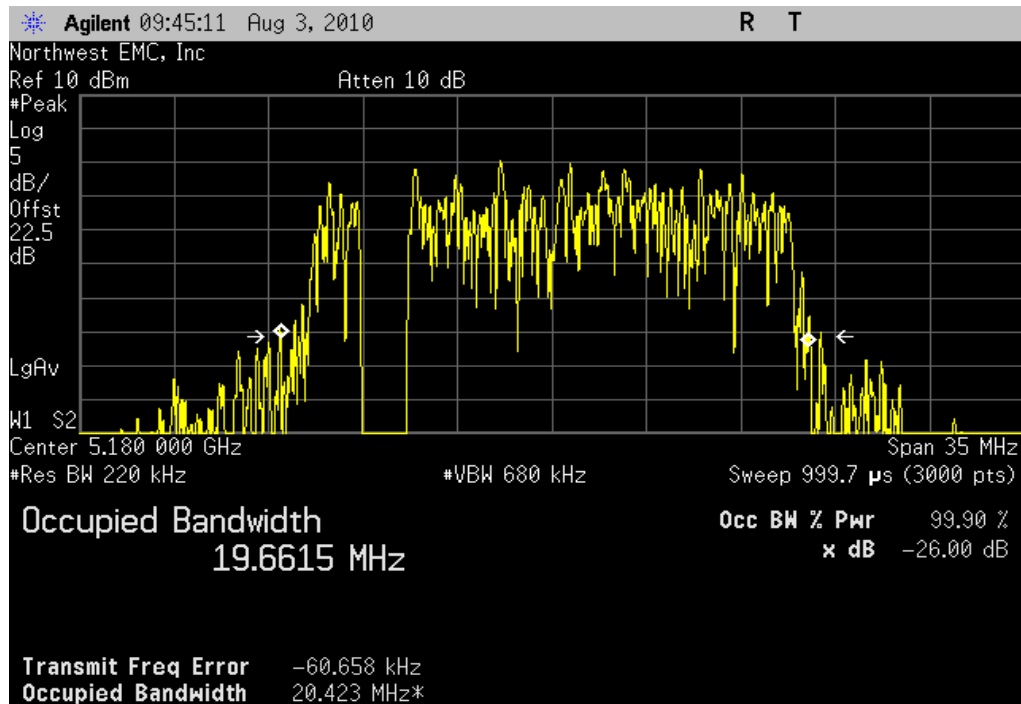
EMISSION BANDWIDTH

802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 36, Low Channel

Result: N/A

Value: 20.423 MHz

Limit: N/A

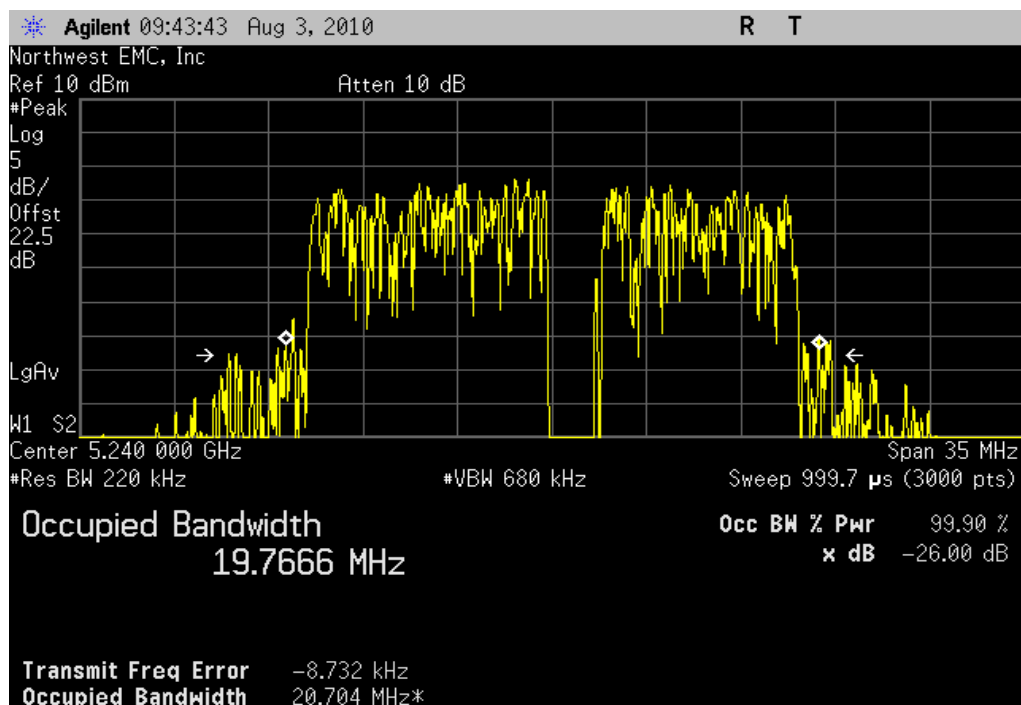


802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 48, High Channel

Result: N/A

Value: 20.704 MHz

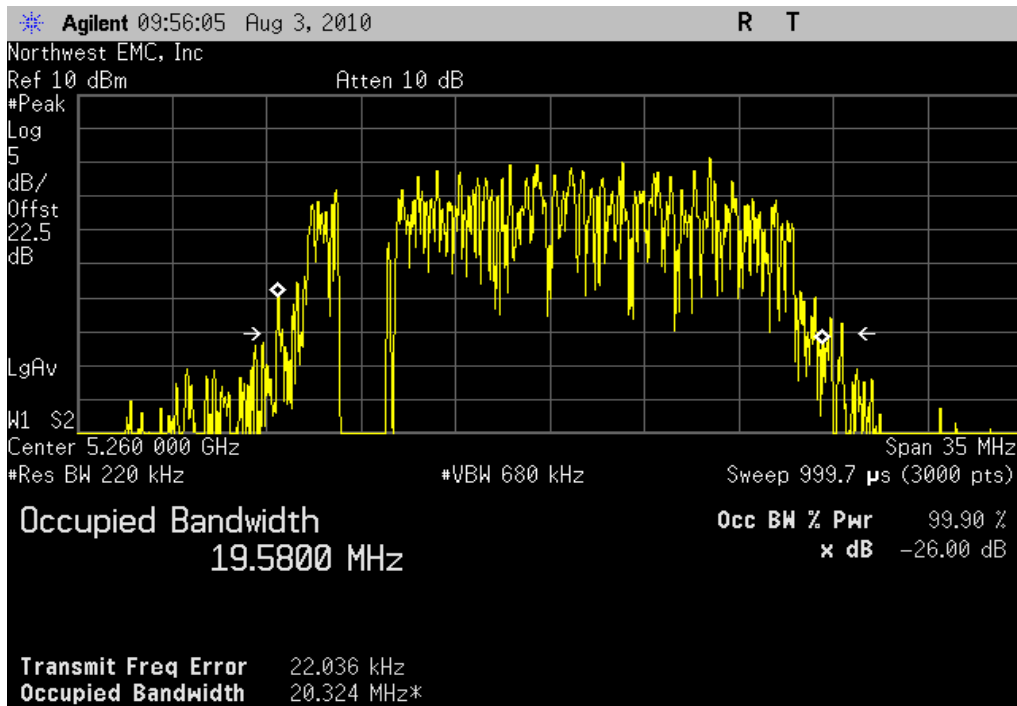
Limit: N/A



EMISSION BANDWIDTH

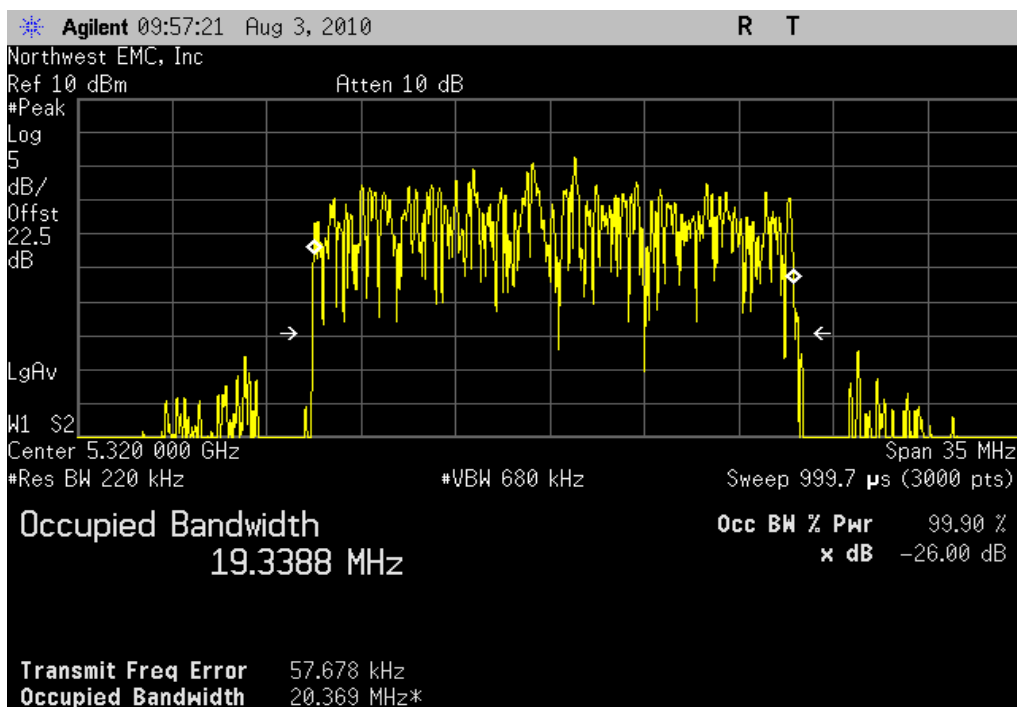
802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 52, Low Channel

Result: N/A	Value: 20.324 MHz	Limit: N/A
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802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 64, High Channel

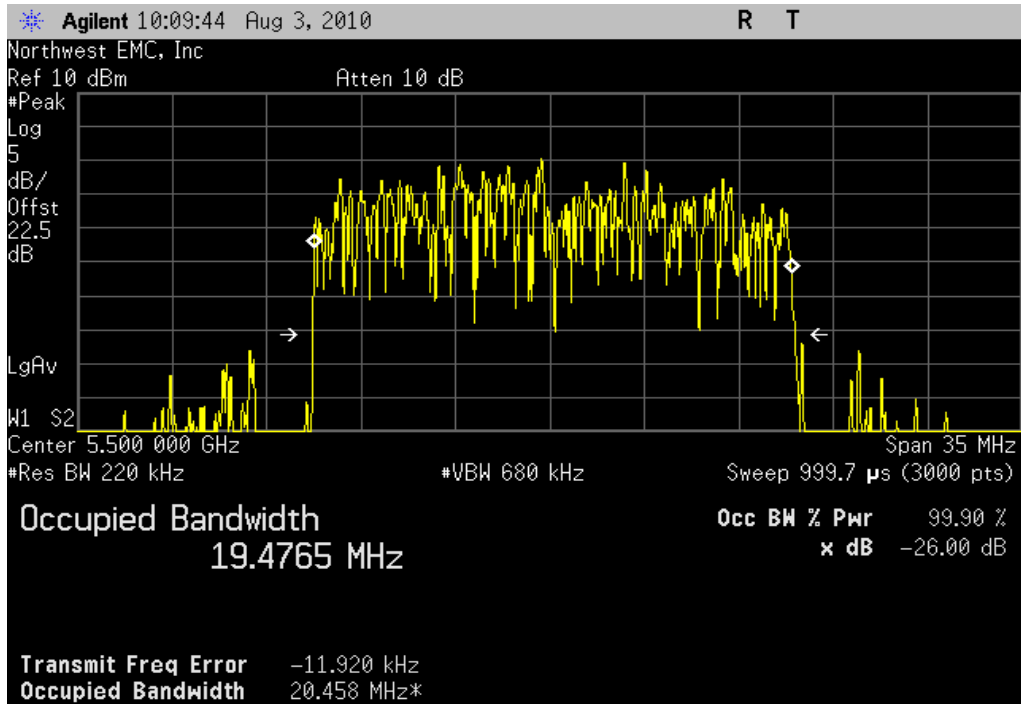
Result: N/A	Value: 20.369 MHz	Limit: N/A
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EMISSION BANDWIDTH

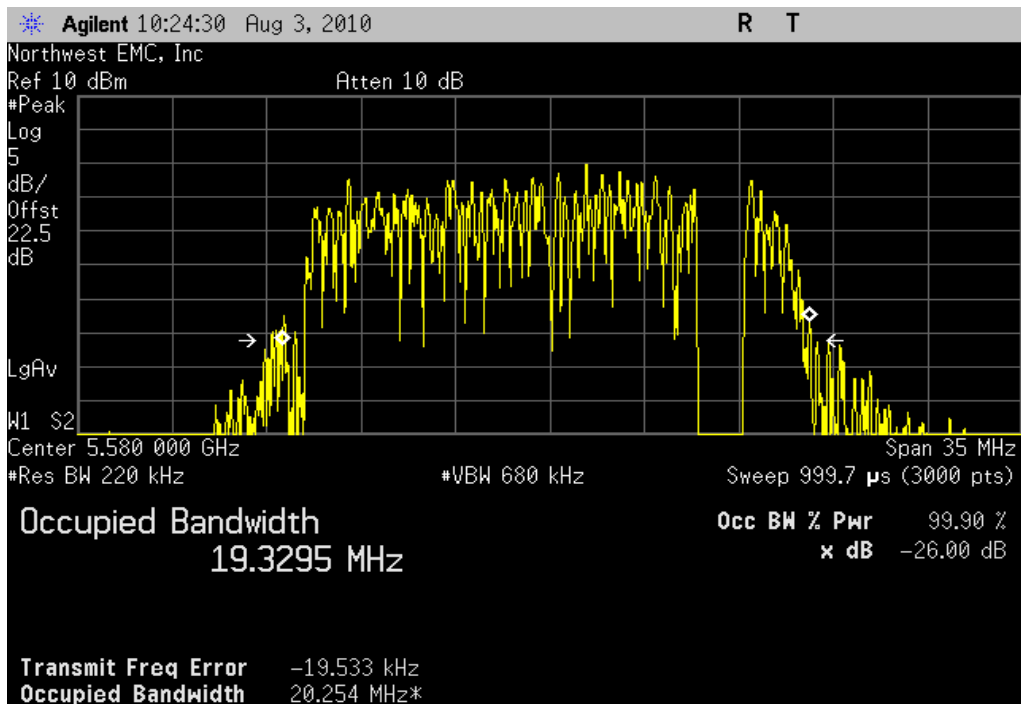
802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 100, Low Channel

Result: N/A	Value: 20.458 MHz	Limit: N/A
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802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 116, Mid Channel

Result: N/A	Value: 20.254 MHz	Limit: N/A
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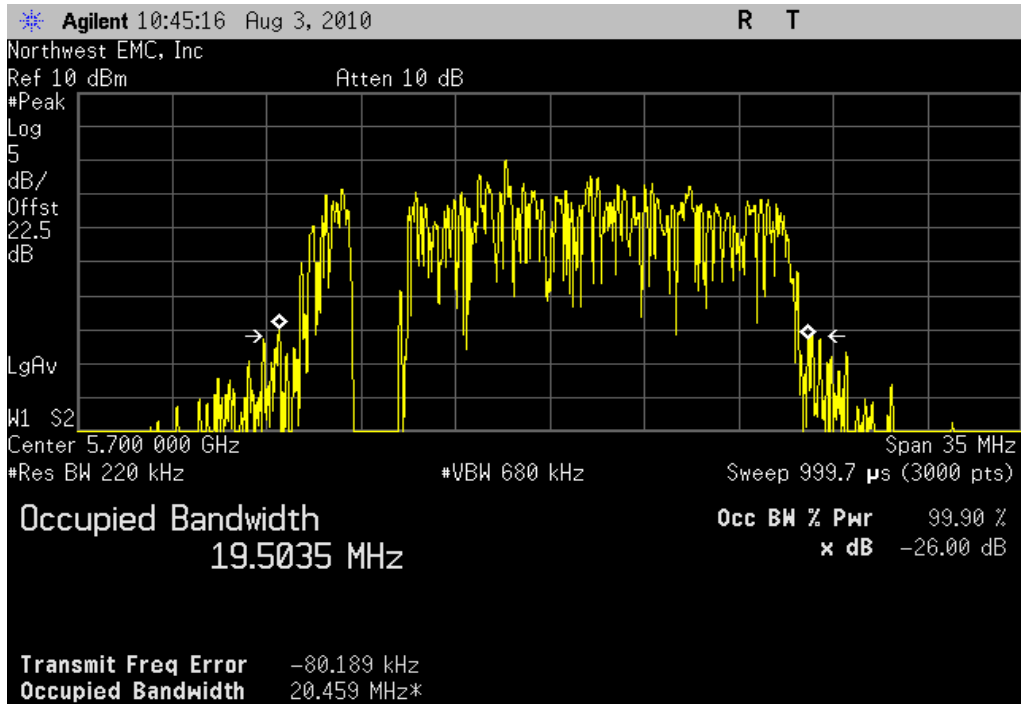
EMISSION BANDWIDTH

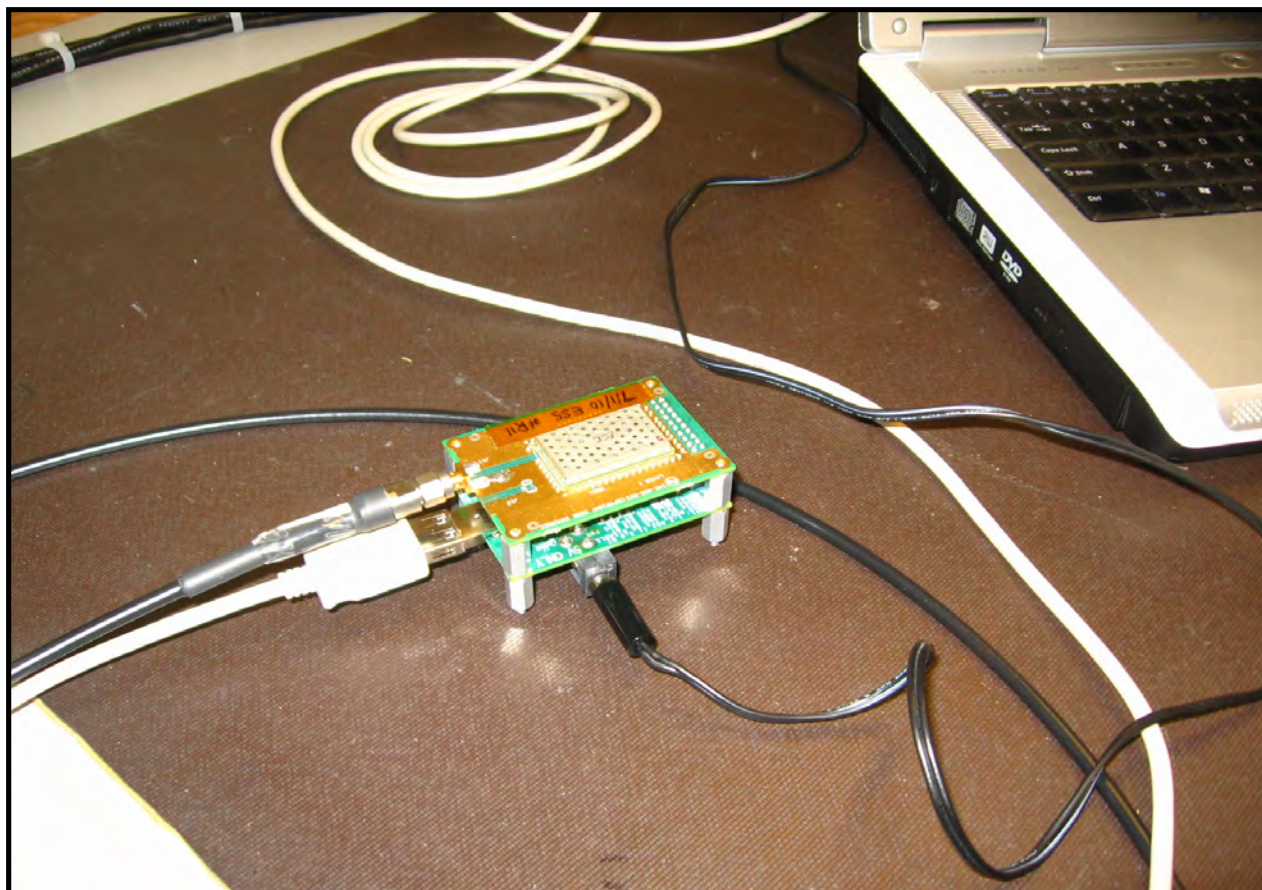
802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 140, High Channel

Result: N/A

Value: 20.459 MHz

Limit: N/A





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	E4440A	AFD	6/1/2009	24
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/21/2009	13
26 GHz DC Block, SMA	Pasternack	PE8210	AME	10/19/2009	13
Attenuator, 6 dB, 'SMA'	N/A	93459 3330A-6	AUF	4/1/2010	13
Power Meter	Gigatronics	8651A	SPM	1/7/2010	13
Power Sensor	Gigatronics	80701A	SPL	1/7/2010	13
Signal Generator	Agilent	E8257D	TGX	12/10/2008	24

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

ANSI C63.10 was followed. The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. The lowest data rate was measured as it provided the highest output power. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input. The amplitude accuracy of the spectrum analyzer was further enhanced by calibrating the setup using the power meter and synthesized signal generator.

Prior to measuring peak power spectral density, the transmission pulse duration (T) were measured. The transmission pulse duration and the associated data are found elsewhere in this test report.

Method #2 was used. RF gating on the spectrum analyzer was used on those data rates with short pulse durations to ensure sweeps only occurred during the pulse duration.

The spectrum analyzer settings were as follows:

- The span was set to encompass entire emission bandwidth (B), centered on the transmit channel.
- RBW = 1 MHz, VBW >= 3 MHz because the emission bandwidth (B) is greater than 1 MHz
- Sample detector mode because the bin width (span / number of spectral points) < 0.5 RBW.
- Trace average 100 traces in power averaging mode (not video averaging).

The peak power spectral density (PPSD) was determined to be the highest level found across the emission in any 1 MHz band after 100 sweeps of power averaging (not video averaging).

PEAK POWER SPECTRAL DENSITY

EMC

EUT: RC12	Work Order: INMC0575
Serial Number: R11	Date: 08/04/10
Customer: Intermec Technologies Corporation	Temperature: 21°C
Attendees: None	Humidity: 39%
Project: None	Barometric Pres.: 1012.5 mb
Tested by: Rod Peloquin	Power: 5VDC
	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.407:2010	ANSI C63.10:2009

COMMENTS
None

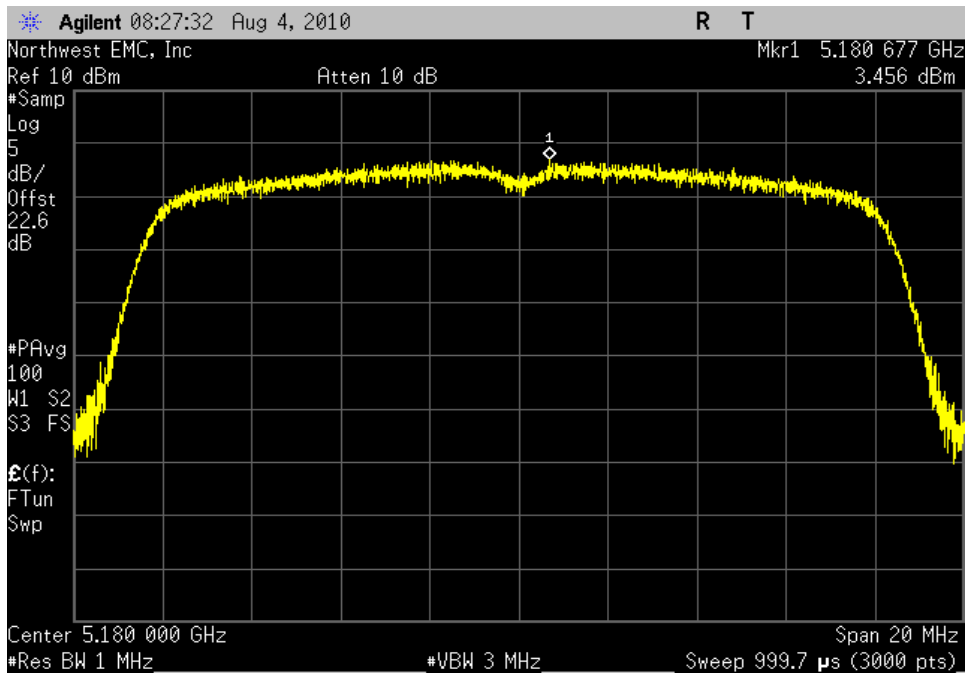
DEVIATIONS FROM TEST STANDARD
No Deviations

Configuration #	2	Signature 
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		Value	Limit	Results
802.11(a) 6 Mbps	5150 - 5250 MHz Band			
	Channel 36, Low Channel	3.5 dbm / MHz	4 dBm / MHz	Pass
	Channel 48, High Channel	3.4 dbm / MHz	4 dBm / MHz	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	3.6 dbm / MHz	4 dBm / MHz	Pass
	Channel 64, High Channel	3.2 dbm / MHz	4 dBm / MHz	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	2.9 dbm / MHz	4 dBm / MHz	Pass
	Channel 116, Mid Channel	3.0 dbm / MHz	4 dBm / MHz	Pass
	Channel 140, High Channel	2.6 dbm / MHz	4 dBm / MHz	Pass
802.11(a) 36 Mbps	5150 - 5250 MHz Band			
	Channel 36, Low Channel	3.6 dbm / MHz	4 dBm / MHz	Pass
	Channel 48, High Channel	3.7 dbm / MHz	4 dBm / MHz	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	3.4 dbm / MHz	4 dBm / MHz	Pass
	Channel 64, High Channel	3.4 dbm / MHz	4 dBm / MHz	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	3.0 dbm / MHz	4 dBm / MHz	Pass
	Channel 116, Mid Channel	3.6 dbm / MHz	4 dBm / MHz	Pass
	Channel 140, High Channel	3.1 dbm / MHz	4 dBm / MHz	Pass
802.11(a) 54 Mbps	5150 - 5250 MHz Band			
	Channel 36, Low Channel	3.8 dbm / MHz	4 dBm / MHz	Pass
	Channel 48, High Channel	3.7 dbm / MHz	4 dBm / MHz	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	3.9 dbm / MHz	4 dBm / MHz	Pass
	Channel 64, High Channel	4.0 dbm / MHz	4 dBm / MHz	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	3.4 dbm / MHz	4 dBm / MHz	Pass
	Channel 116, Mid Channel	3.3 dbm / MHz	4 dBm / MHz	Pass
	Channel 140, High Channel	3.9 dbm / MHz	4 dBm / MHz	Pass
802.11(n) MCS0	5150 - 5250 MHz Band			
	Channel 36, Low Channel	3.2 dbm / MHz	4 dBm / MHz	Pass
	Channel 48, High Channel	3.1 dbm / MHz	4 dBm / MHz	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	3.4 dbm / MHz	4 dBm / MHz	Pass
	Channel 64, High Channel	2.8 dbm / MHz	4 dBm / MHz	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	2.1 dbm / MHz	4 dBm / MHz	Pass
	Channel 116, Mid Channel	2.0 dbm / MHz	4 dBm / MHz	Pass
	Channel 140, High Channel	2.1 dbm / MHz	4 dBm / MHz	Pass
802.11(n) MCS7	5150 - 5250 MHz Band			
	Channel 36, Low Channel	2.2 dbm / MHz	4 dBm / MHz	Pass
	Channel 48, High Channel	3.2 dbm / MHz	4 dBm / MHz	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	2.9 dbm / MHz	4 dBm / MHz	Pass
	Channel 64, High Channel	2.2 dbm / MHz	4 dBm / MHz	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	0.8 dbm / MHz	4 dBm / MHz	Pass
	Channel 116, Mid Channel	1.0 dbm / MHz	4 dBm / MHz	Pass
	Channel 140, High Channel	1.2 dbm / MHz	4 dBm / MHz	Pass

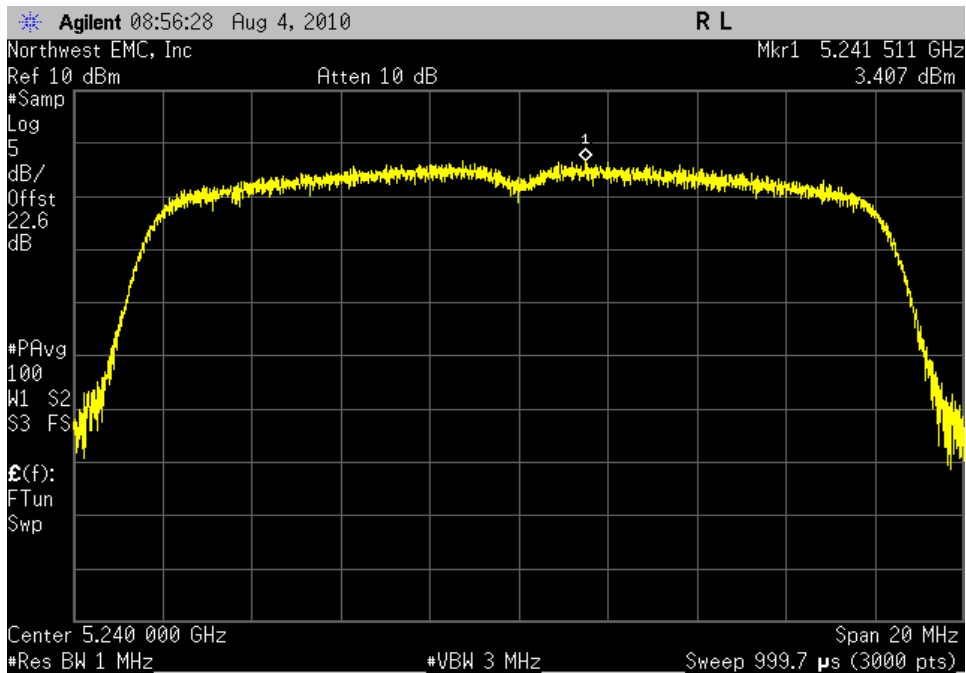
802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

Result: Pass **Value:** 3.5 dbm / MHz **Limit:** 4 dBm / MHz



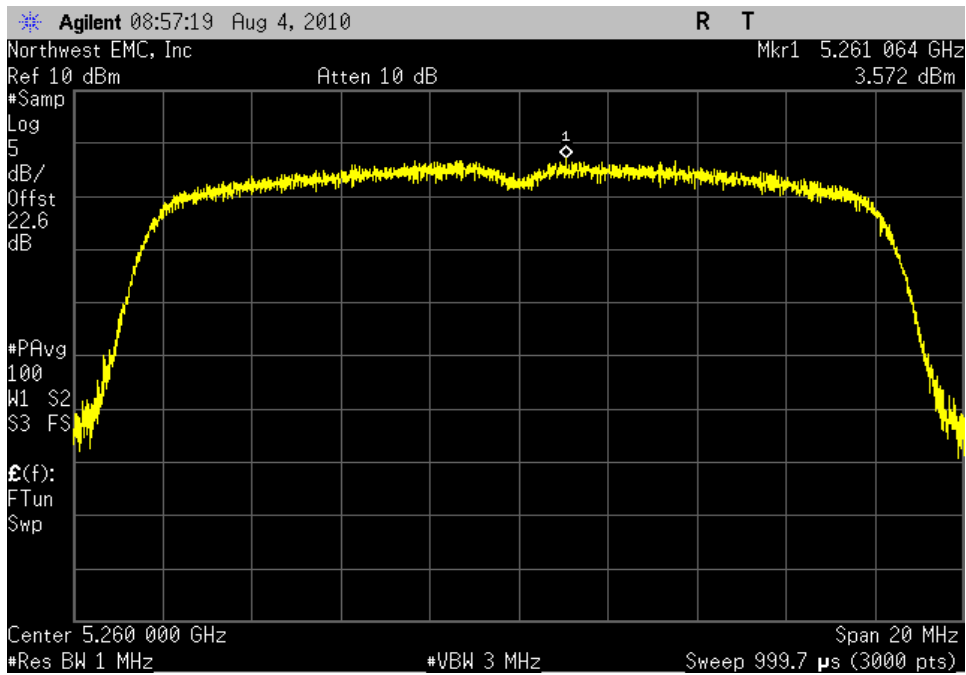
802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel

Result: Pass **Value:** 3.4 dbm / MHz **Limit:** 4 dBm / MHz



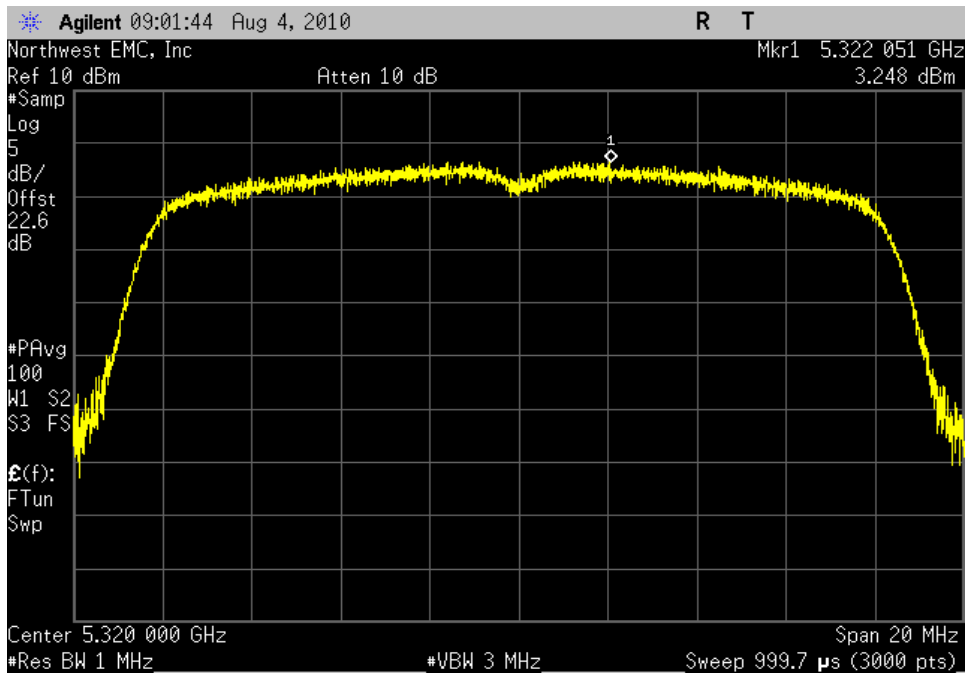
802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel

Result: Pass **Value:** 3.6 dbm / MHz **Limit:** 4 dBm / MHz



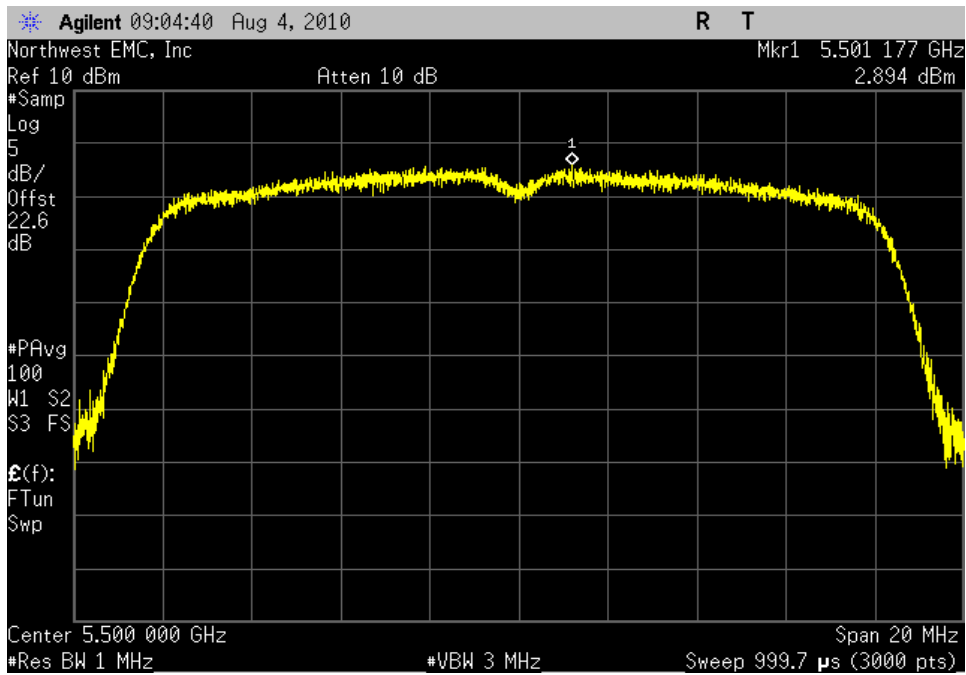
802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel

Result: Pass **Value:** 3.2 dbm / MHz **Limit:** 4 dBm / MHz



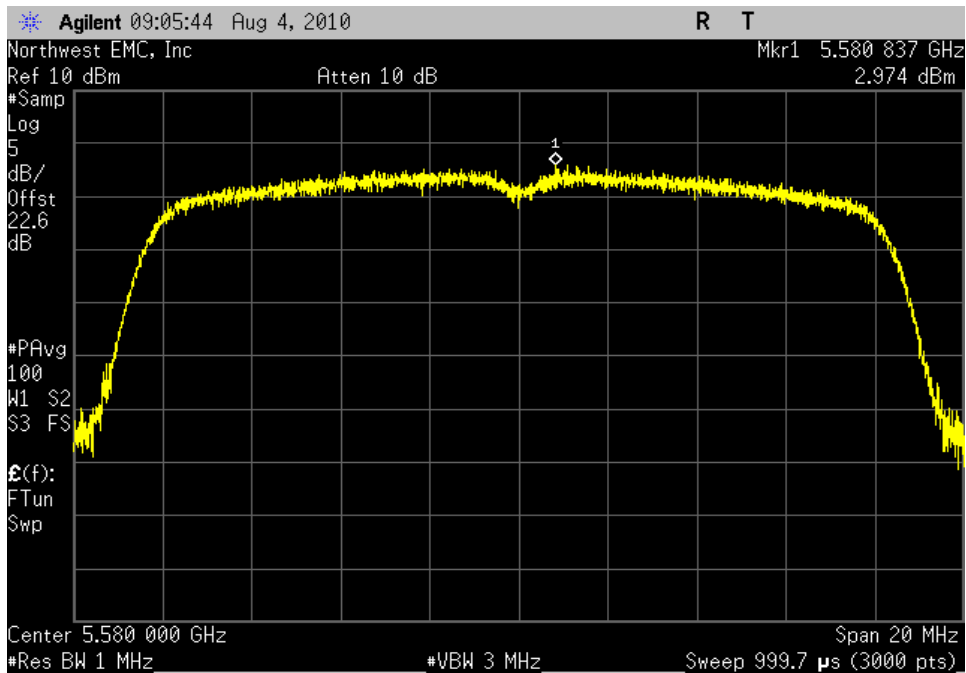
802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel

Result: Pass **Value:** 2.9 dbm / MHz **Limit:** 4 dBm / MHz



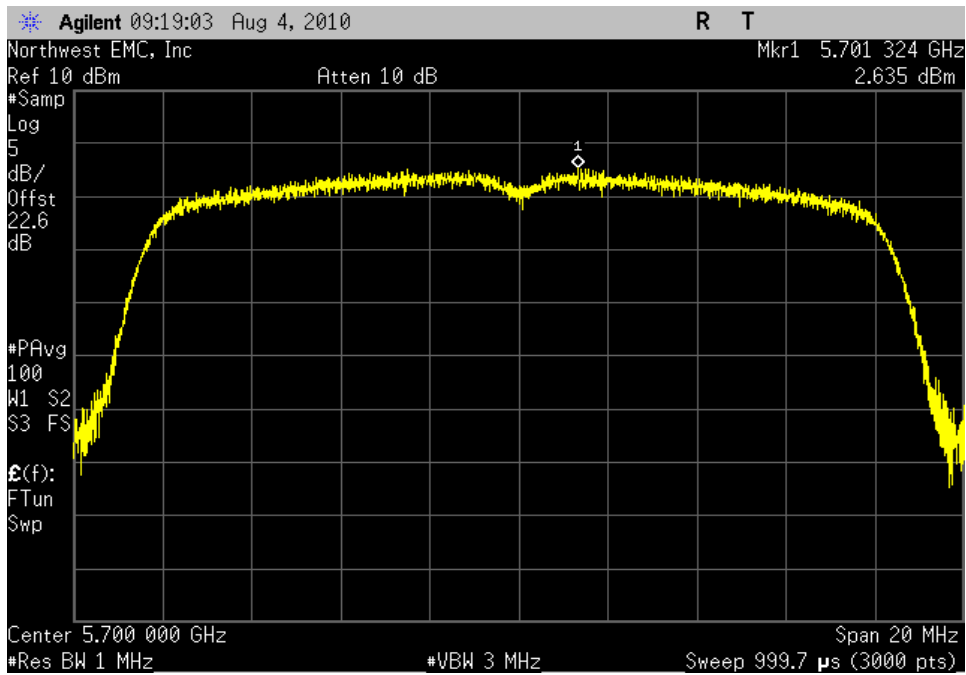
802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel

Result: Pass **Value:** 3.0 dbm / MHz **Limit:** 4 dBm / MHz



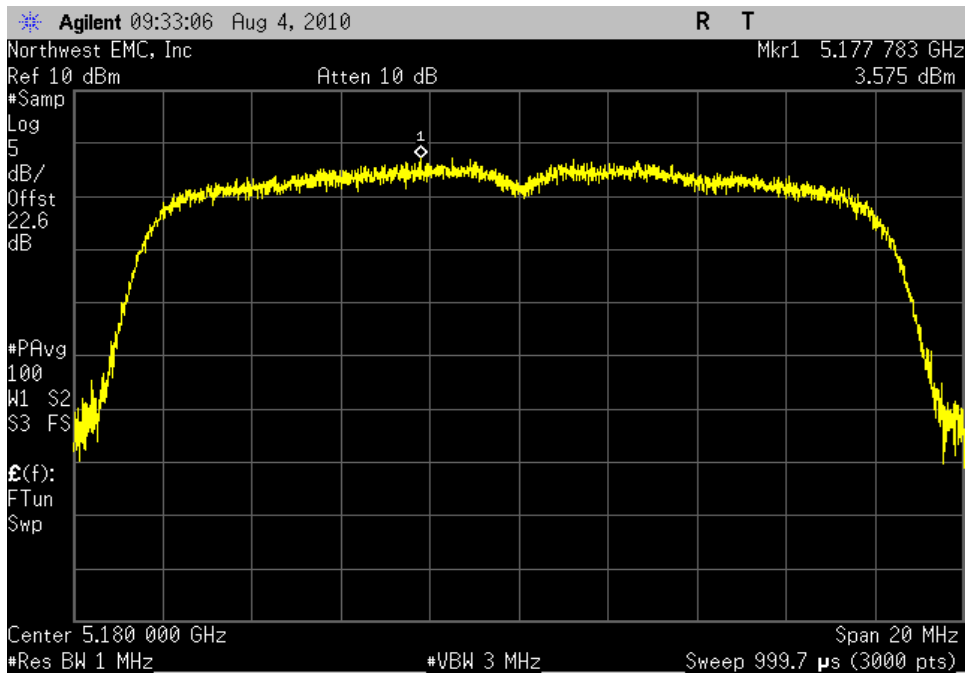
802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

Result: Pass **Value:** 2.6 dbm / MHz **Limit:** 4 dBm / MHz

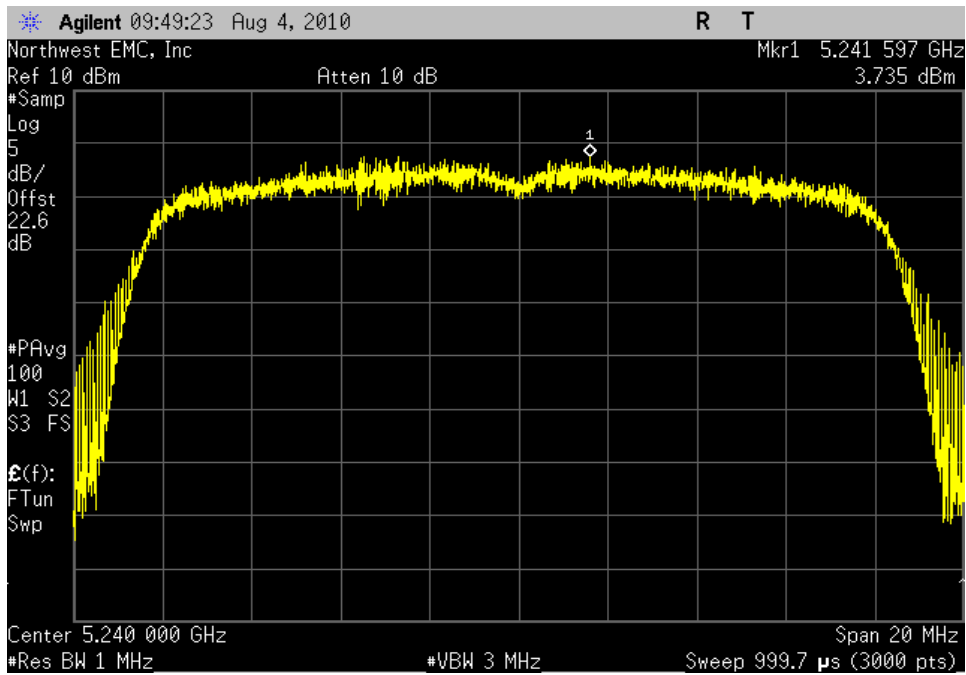


802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

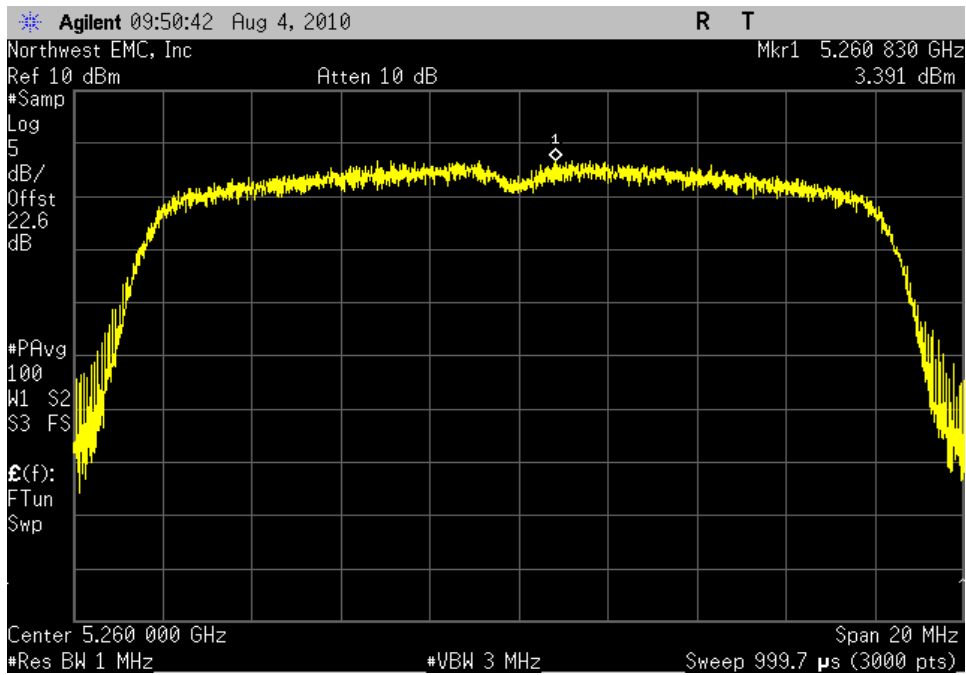
Result: Pass **Value:** 3.6 dbm / MHz **Limit:** 4 dBm / MHz



802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel
Result: Pass **Value:** 3.7 dbm / MHz **Limit:** 4 dBm / MHz

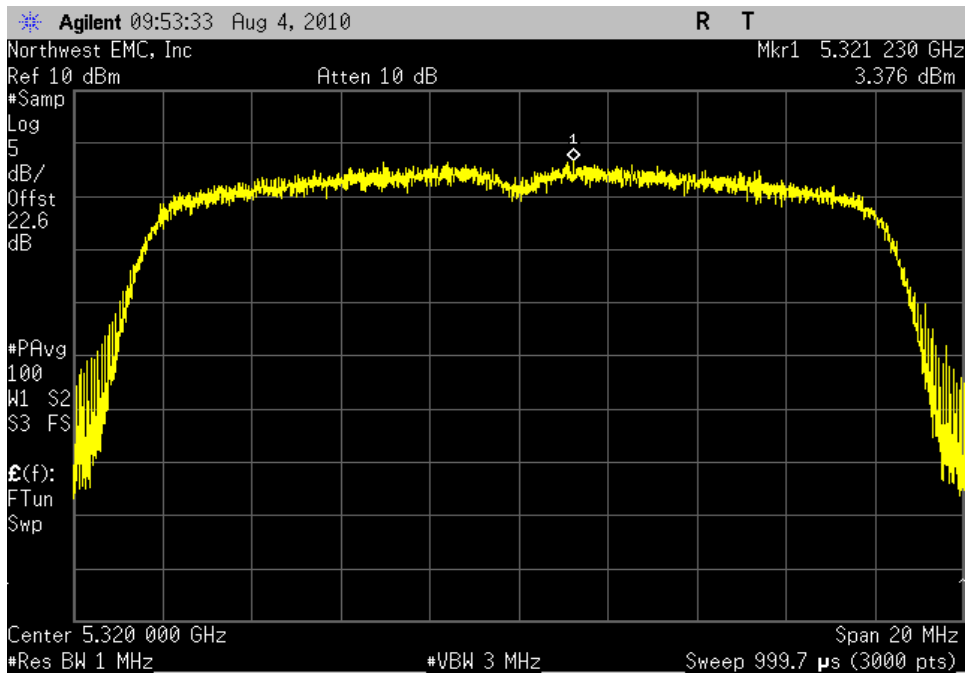


802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel
Result: Pass **Value:** 3.4 dbm / MHz **Limit:** 4 dBm / MHz



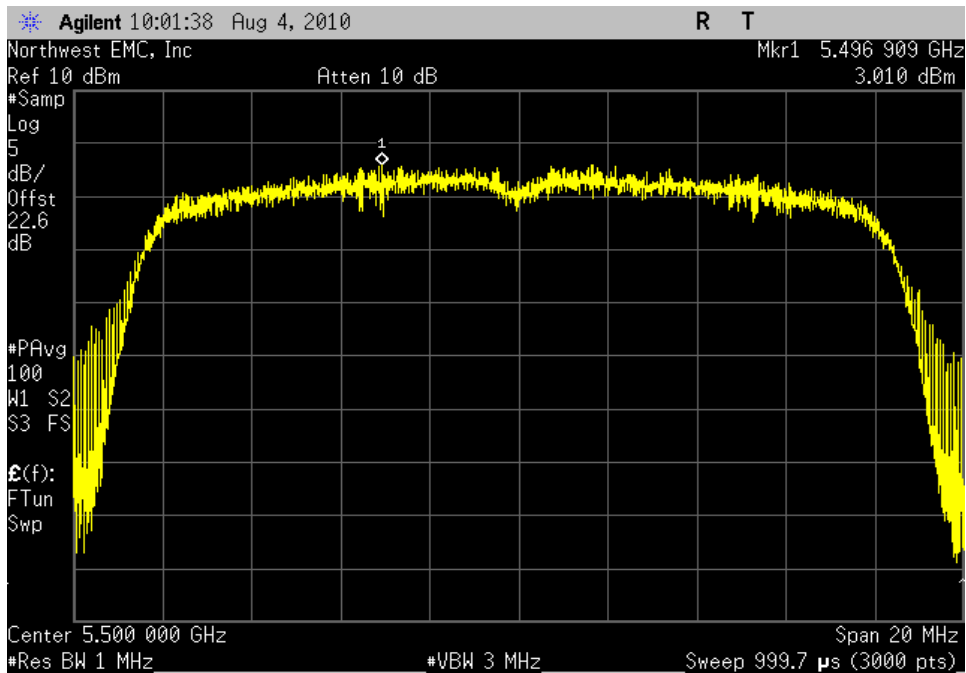
802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel

Result: Pass **Value:** 3.4 dbm / MHz **Limit:** 4 dBm / MHz



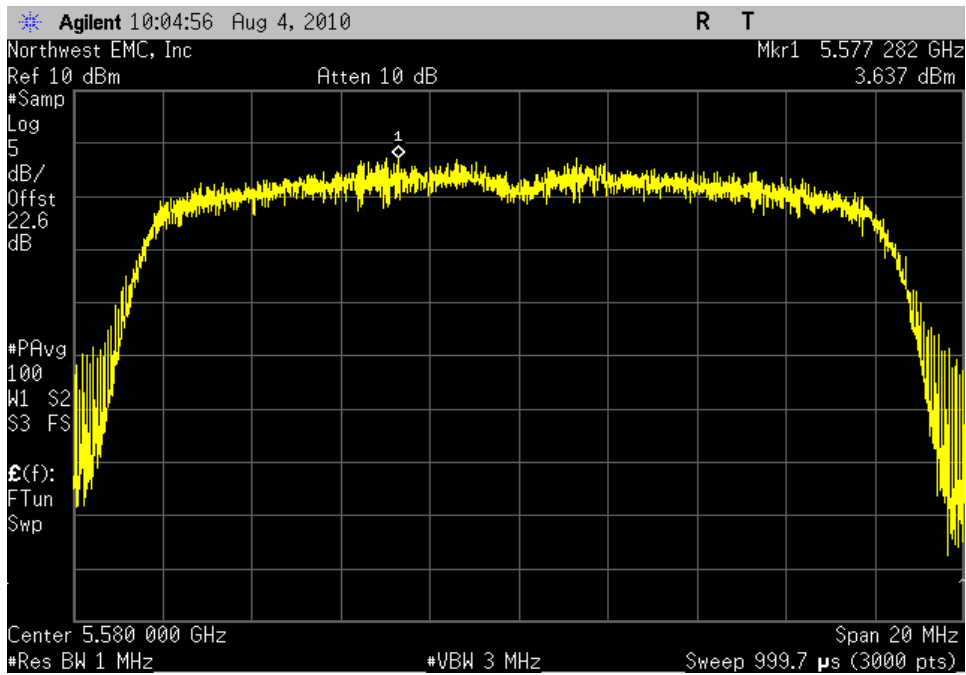
802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel

Result: Pass **Value:** 3.0 dbm / MHz **Limit:** 4 dBm / MHz



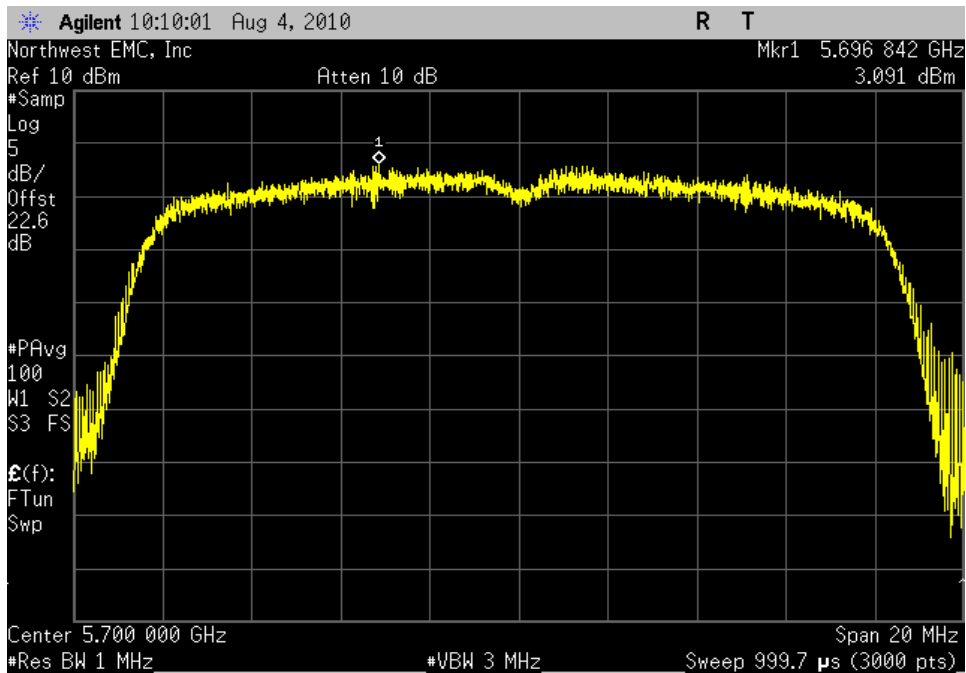
802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel

Result: Pass **Value:** 3.6 dbm / MHz **Limit:** 4 dBm / MHz



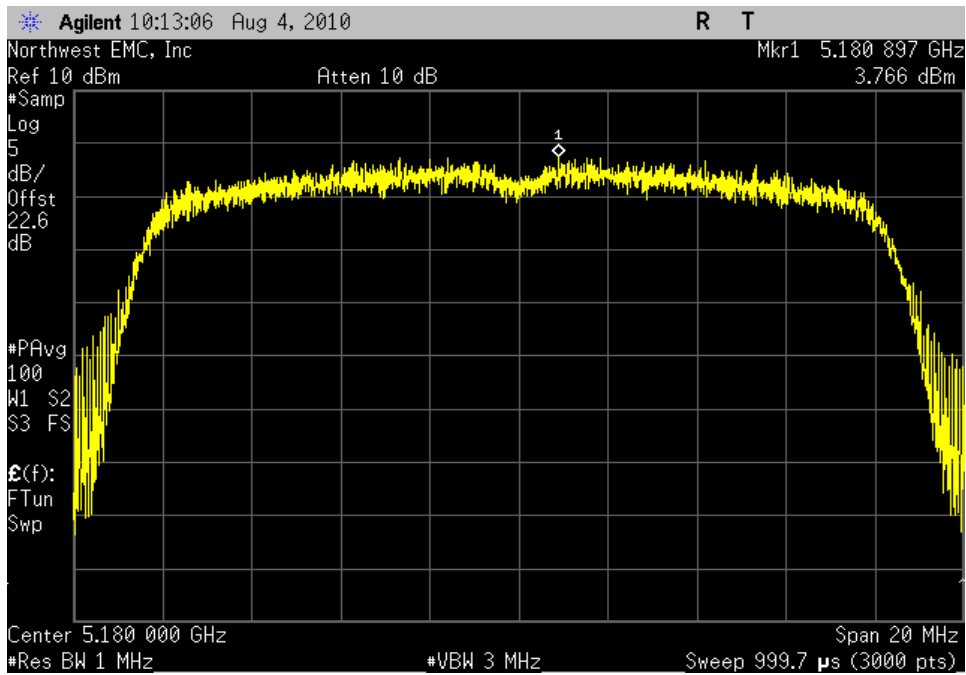
802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

Result: Pass **Value:** 3.1 dbm / MHz **Limit:** 4 dBm / MHz



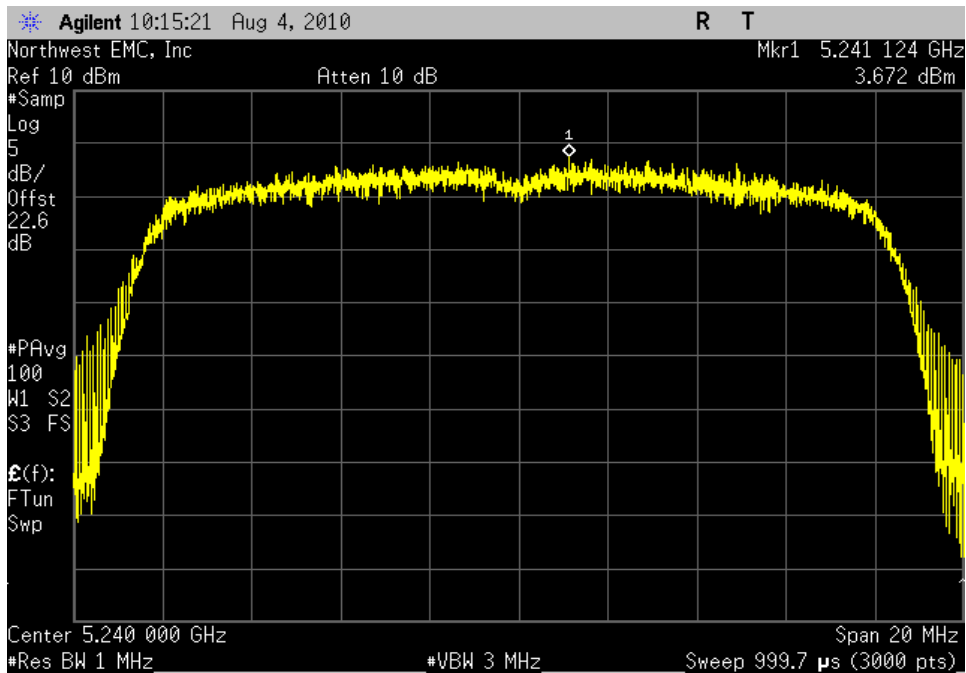
802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

Result: Pass **Value:** 3.8 dbm / MHz **Limit:** 4 dBm / MHz



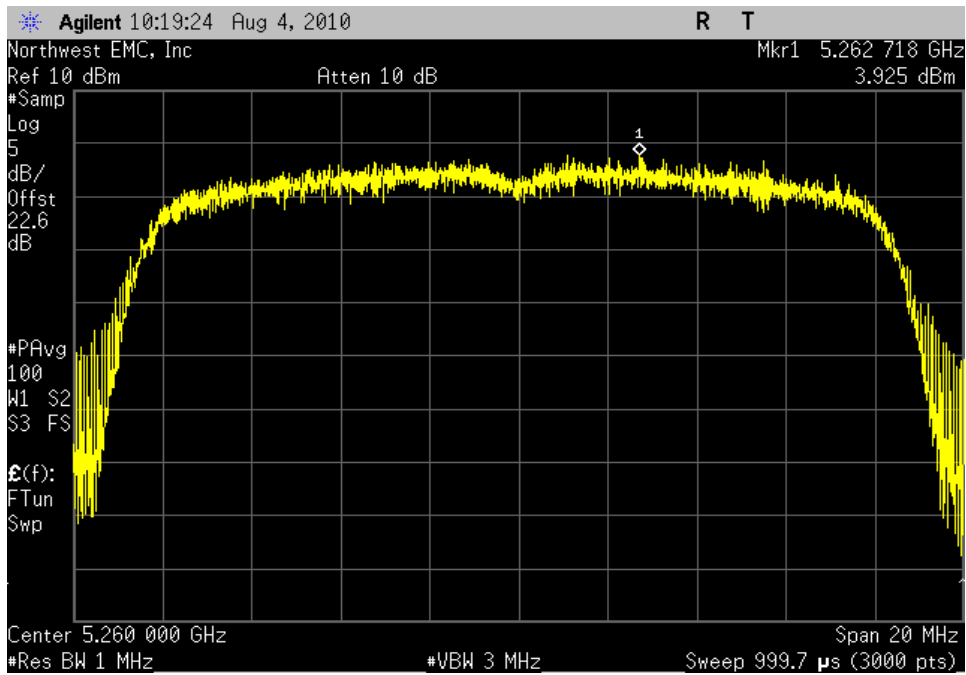
802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel

Result: Pass **Value:** 3.7 dbm / MHz **Limit:** 4 dBm / MHz



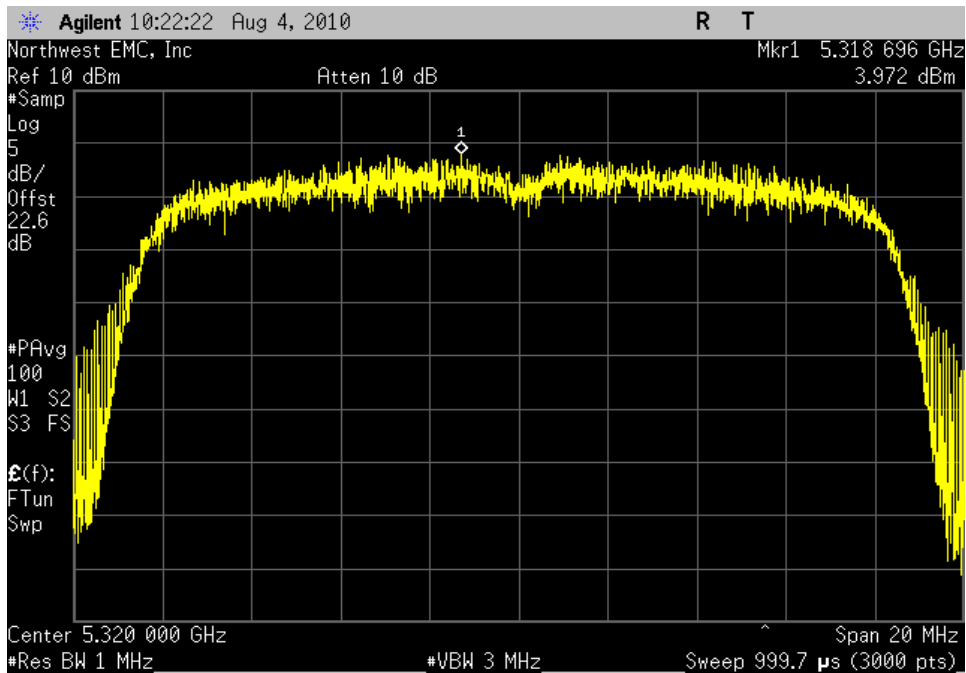
802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel

Result: Pass **Value:** 3.9 dbm / MHz **Limit:** 4 dBm / MHz



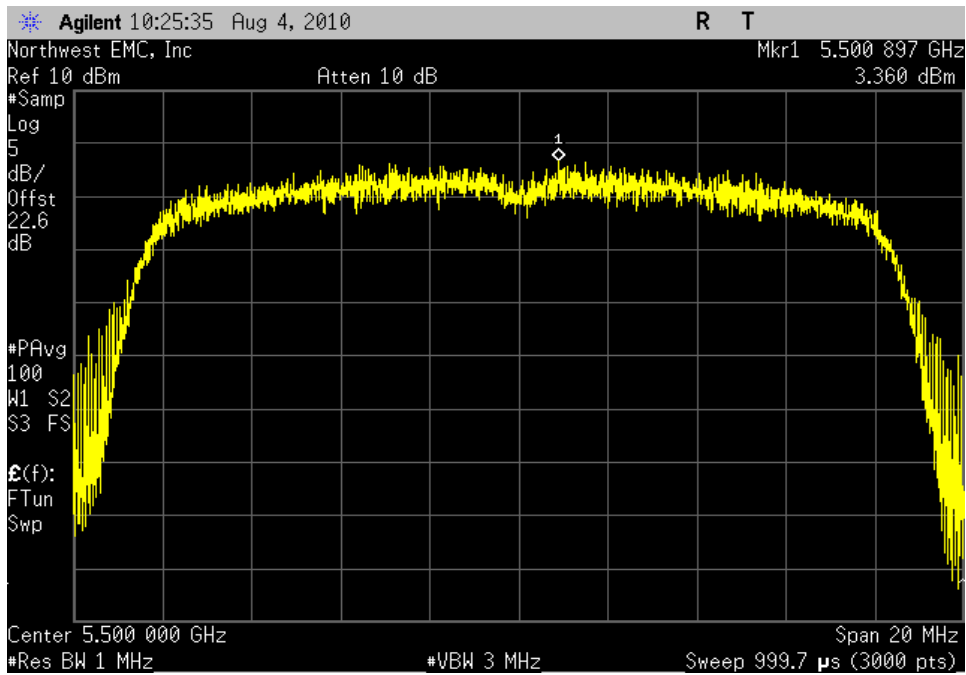
802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel

Result: Pass **Value:** 4.0 dbm / MHz **Limit:** 4 dBm / MHz



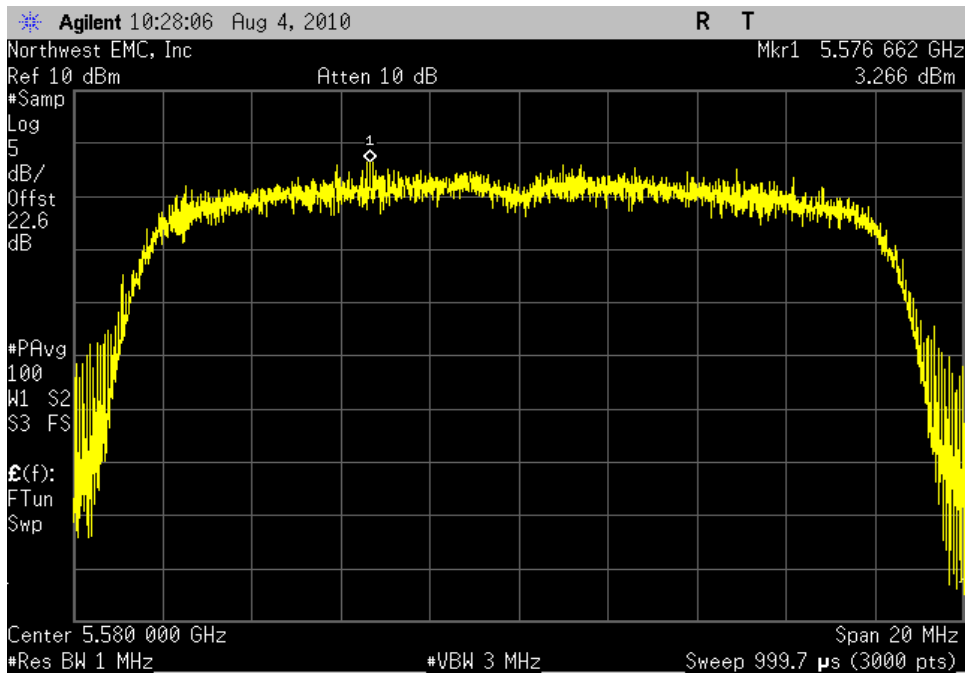
802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel

Result: Pass **Value:** 3.4 dbm / MHz **Limit:** 4 dBm / MHz



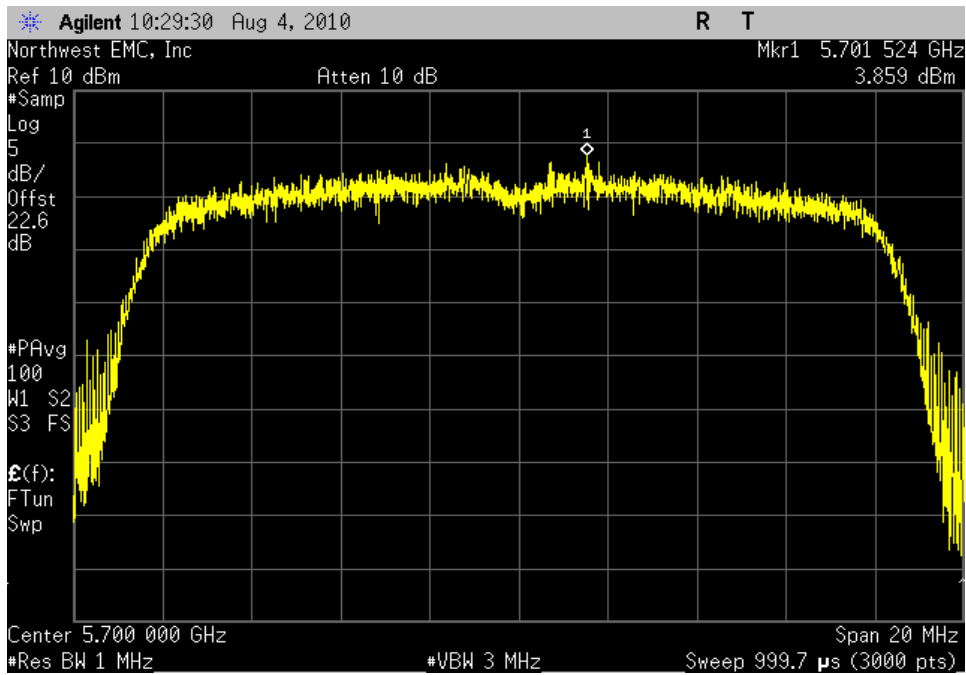
802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel

Result: Pass **Value:** 3.3 dbm / MHz **Limit:** 4 dBm / MHz



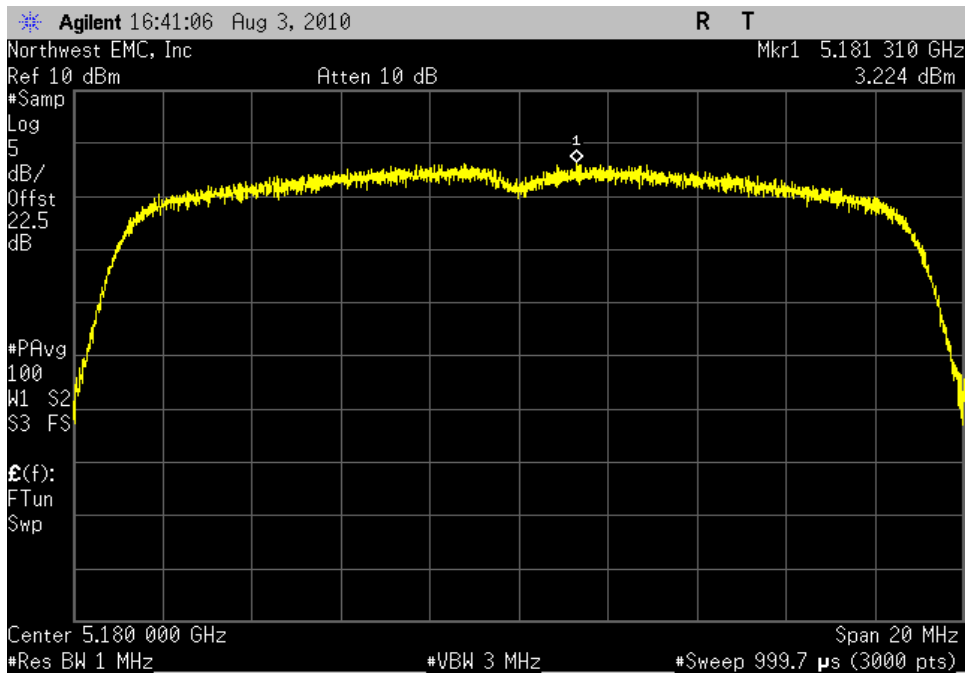
802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

Result: Pass **Value:** 3.9 dbm / MHz **Limit:** 4 dBm / MHz



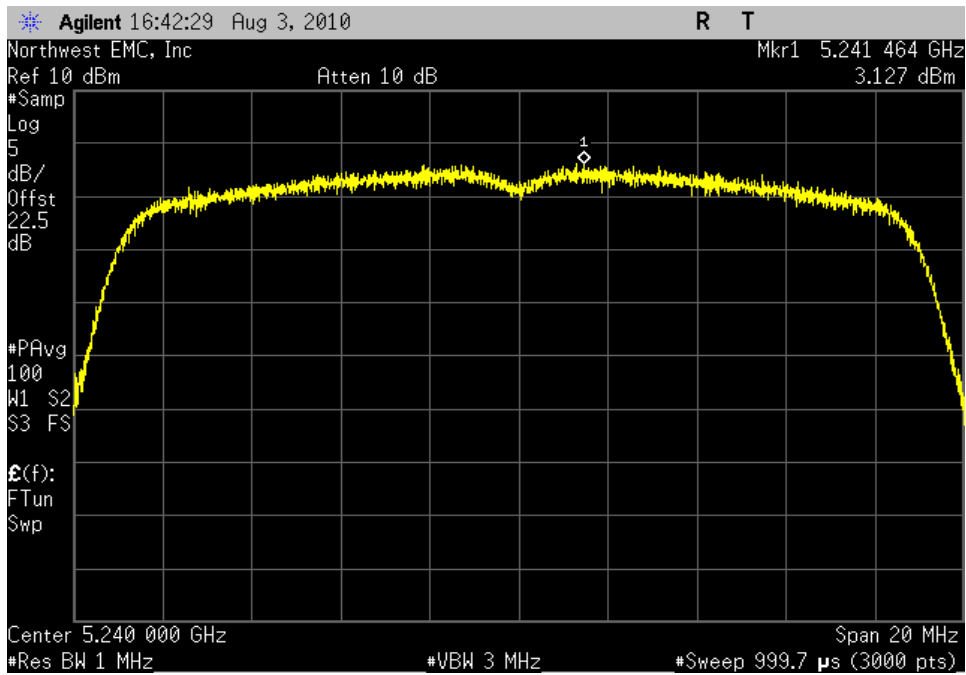
802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 36, Low Channel

Result: Pass **Value:** 3.2 dbm / MHz **Limit:** 4 dBm / MHz



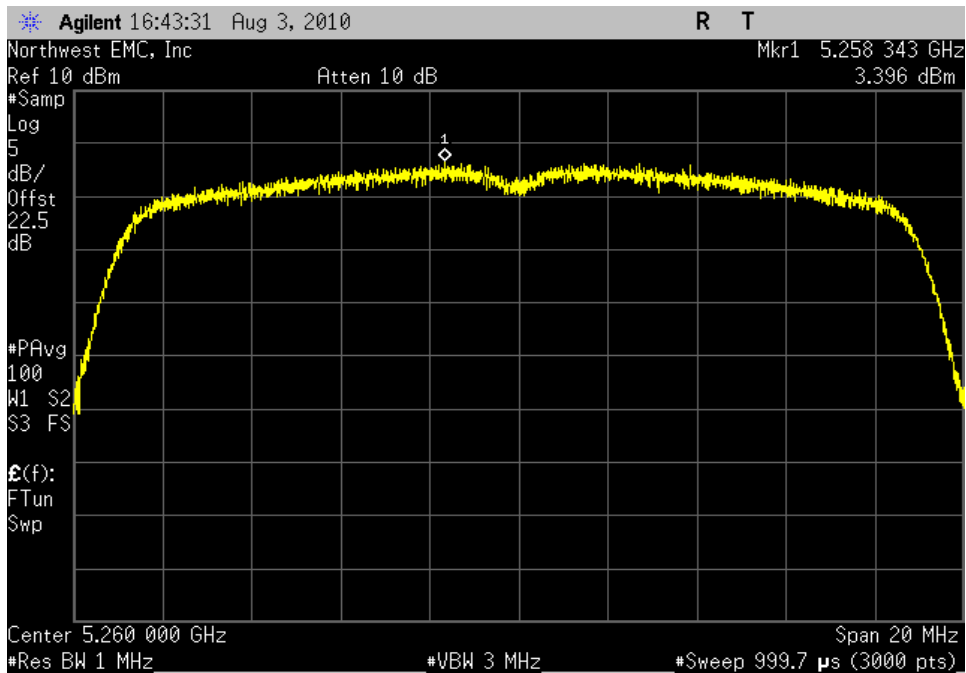
802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 48, High Channel

Result: Pass **Value:** 3.1 dbm / MHz **Limit:** 4 dBm / MHz



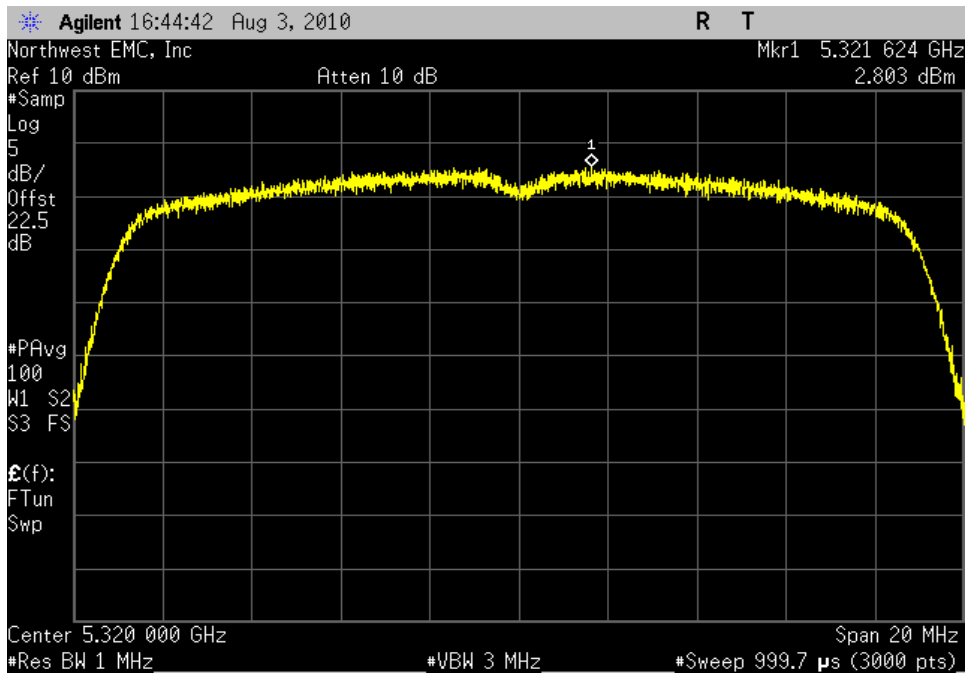
802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 52, Low Channel

Result: Pass **Value:** 3.4 dbm / MHz **Limit:** 4 dBm / MHz



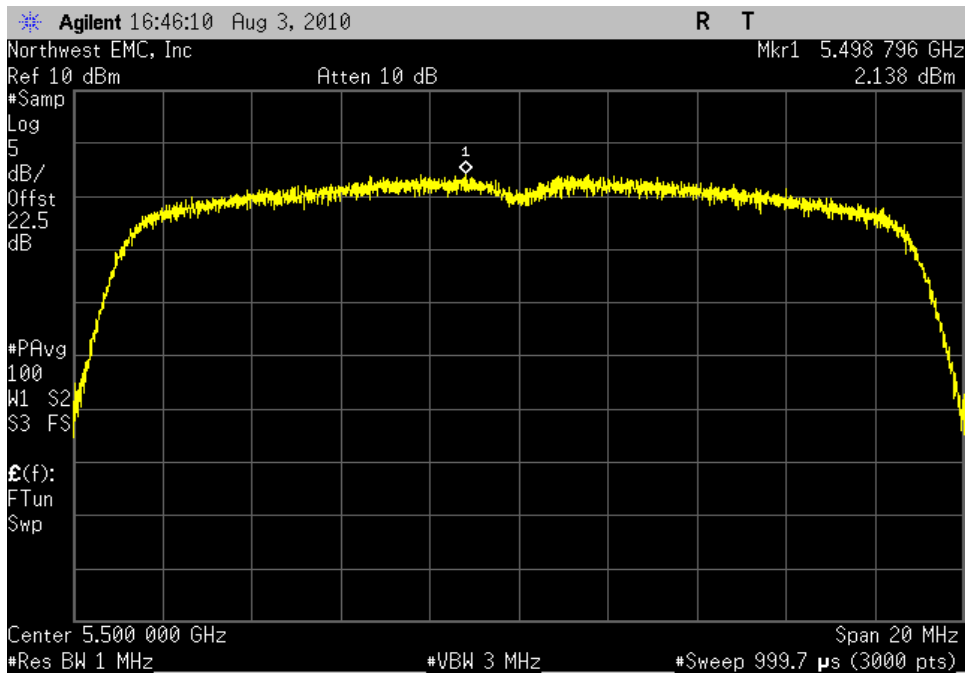
802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 64, High Channel

Result: Pass **Value:** 2.8 dbm / MHz **Limit:** 4 dBm / MHz



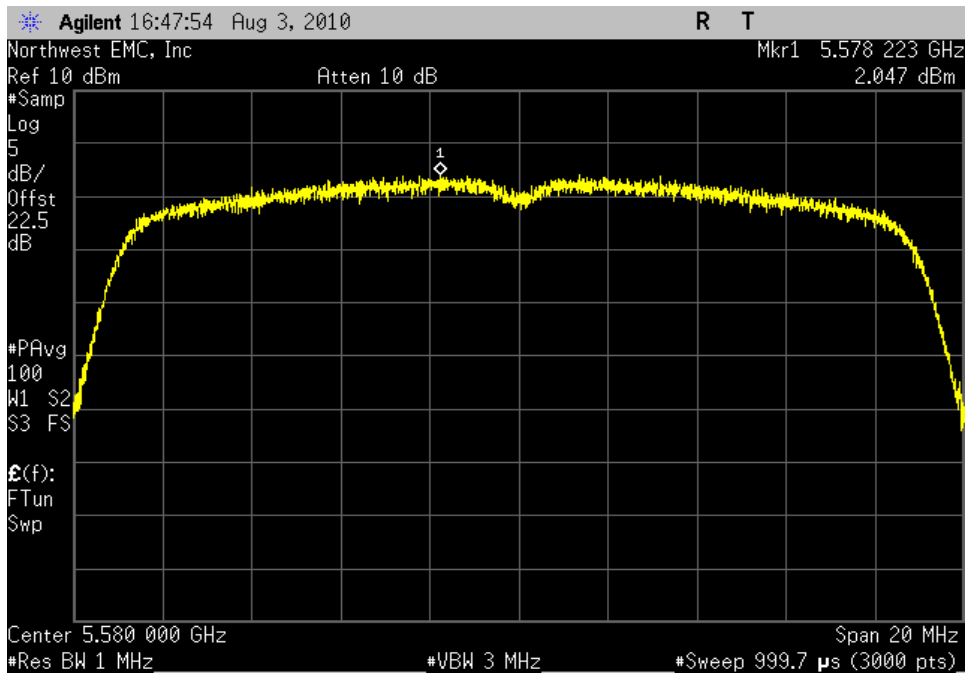
802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 100, Low Channel

Result: Pass **Value:** 2.1 dbm / MHz **Limit:** 4 dBm / MHz



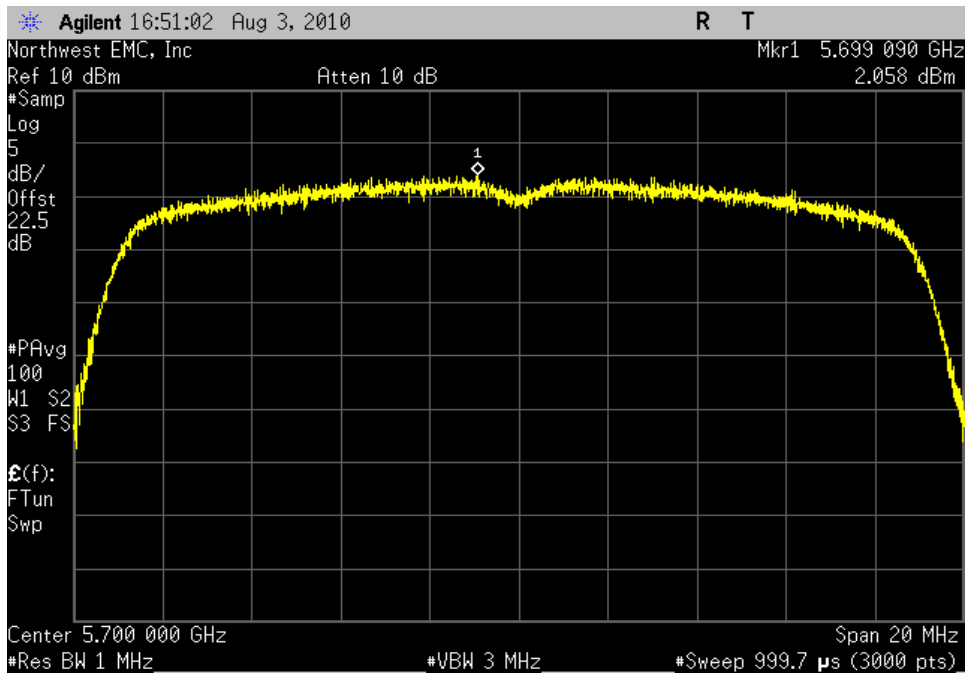
802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 116, Mid Channel

Result: Pass **Value:** 2.0 dbm / MHz **Limit:** 4 dBm / MHz



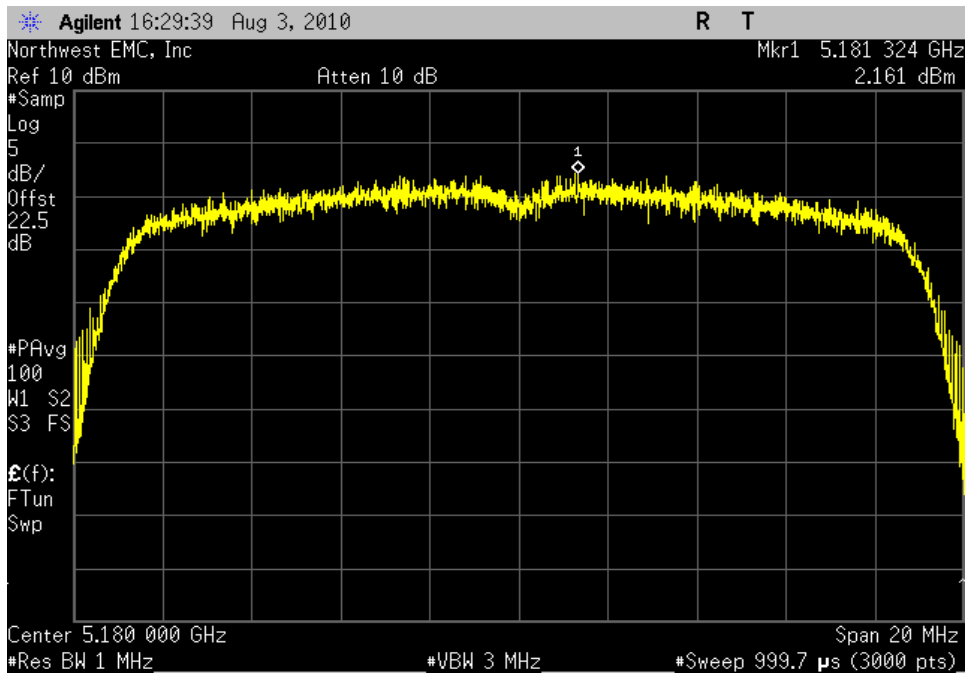
802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 140, High Channel

Result: Pass **Value:** 2.1 dbm / MHz **Limit:** 4 dBm / MHz



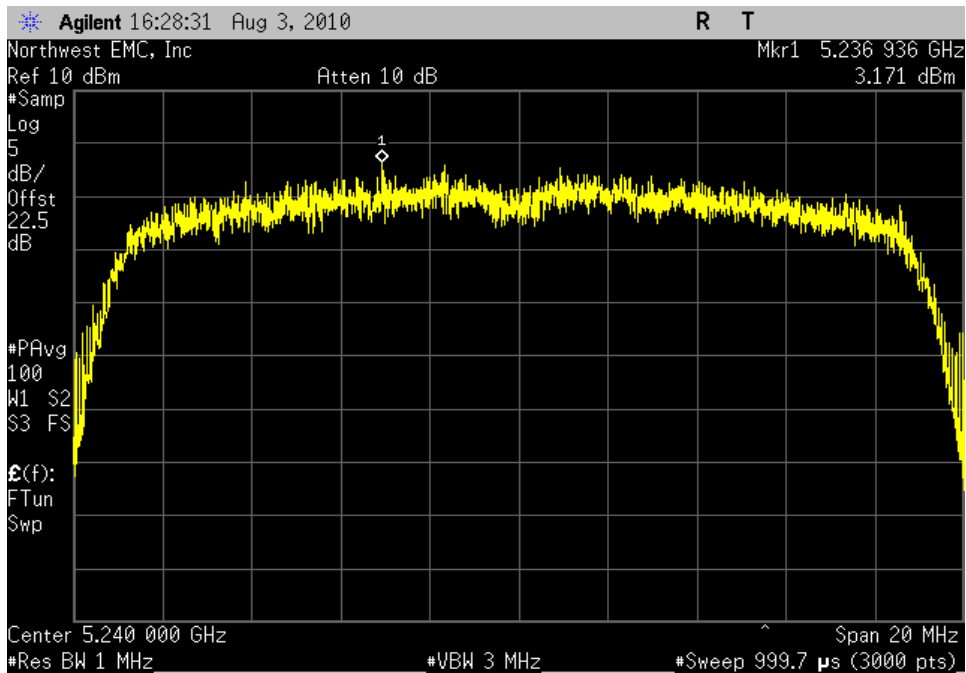
802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 36, Low Channel

Result: Pass **Value:** 2.2 dbm / MHz **Limit:** 4 dBm / MHz



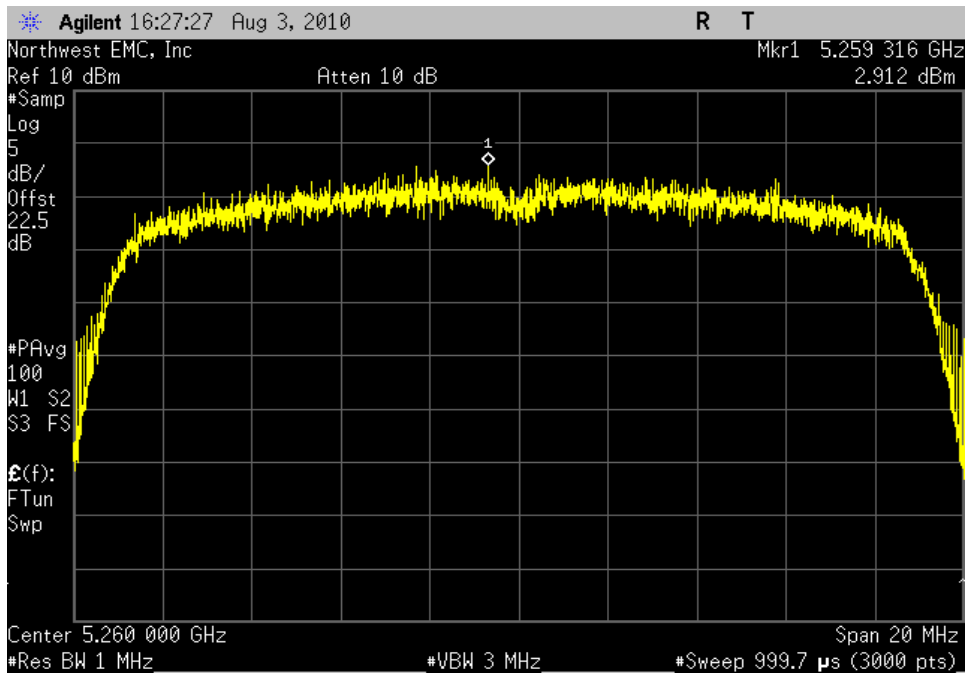
802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 48, High Channel

Result: Pass **Value:** 3.2 dbm / MHz **Limit:** 4 dBm / MHz



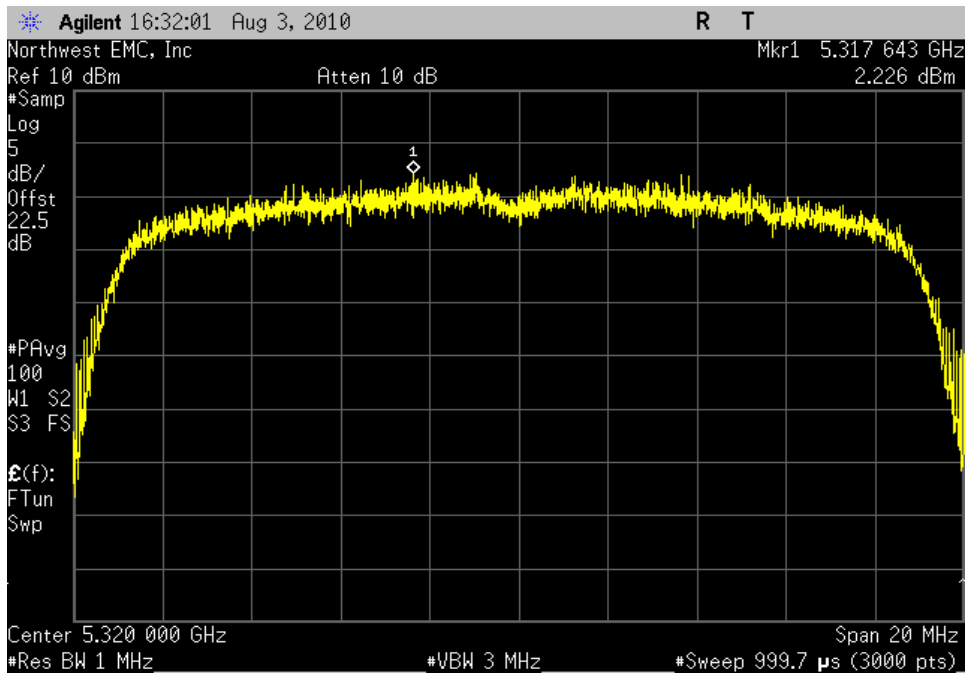
802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 52, Low Channel

Result: Pass **Value:** 2.9 dbm / MHz **Limit:** 4 dBm / MHz



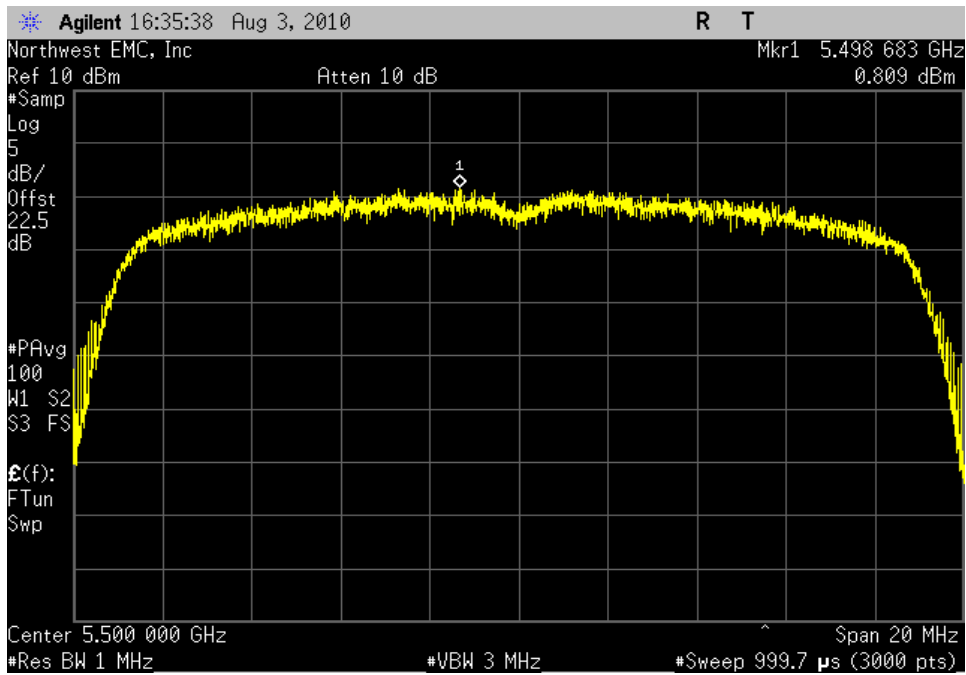
802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 64, High Channel

Result: Pass **Value:** 2.2 dbm / MHz **Limit:** 4 dBm / MHz



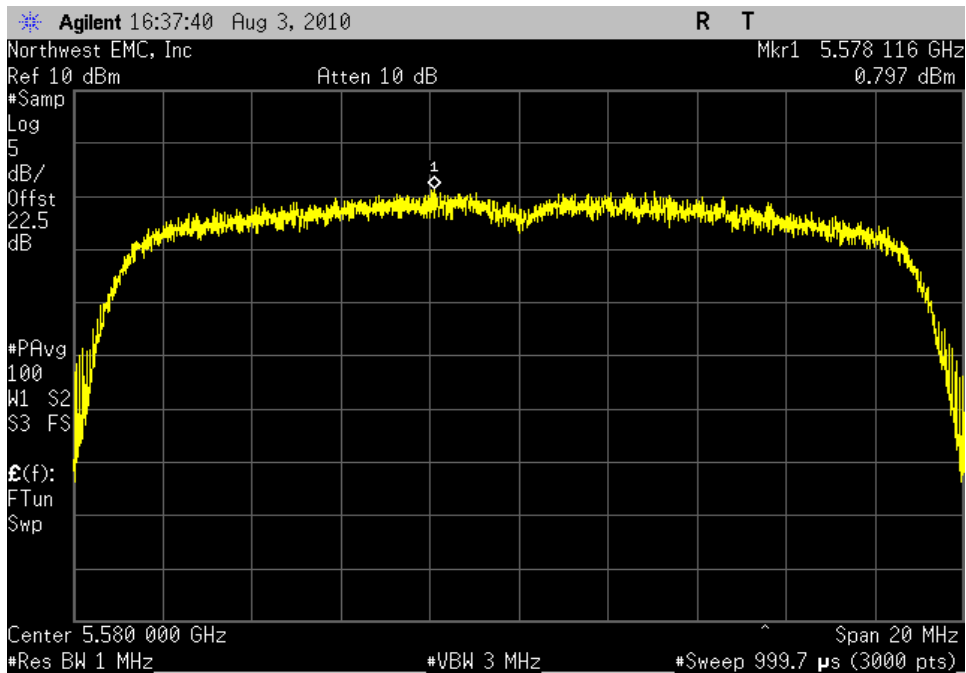
802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 100, Low Channel

Result: Pass **Value:** 0.8 dbm / MHz **Limit:** 4 dBm / MHz



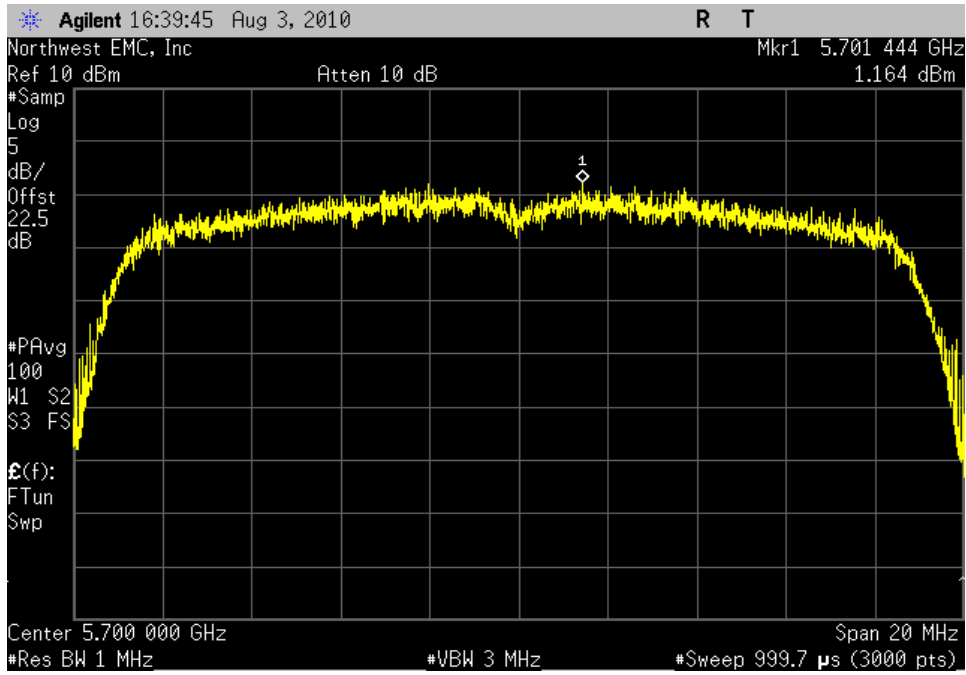
802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 116, Mid Channel

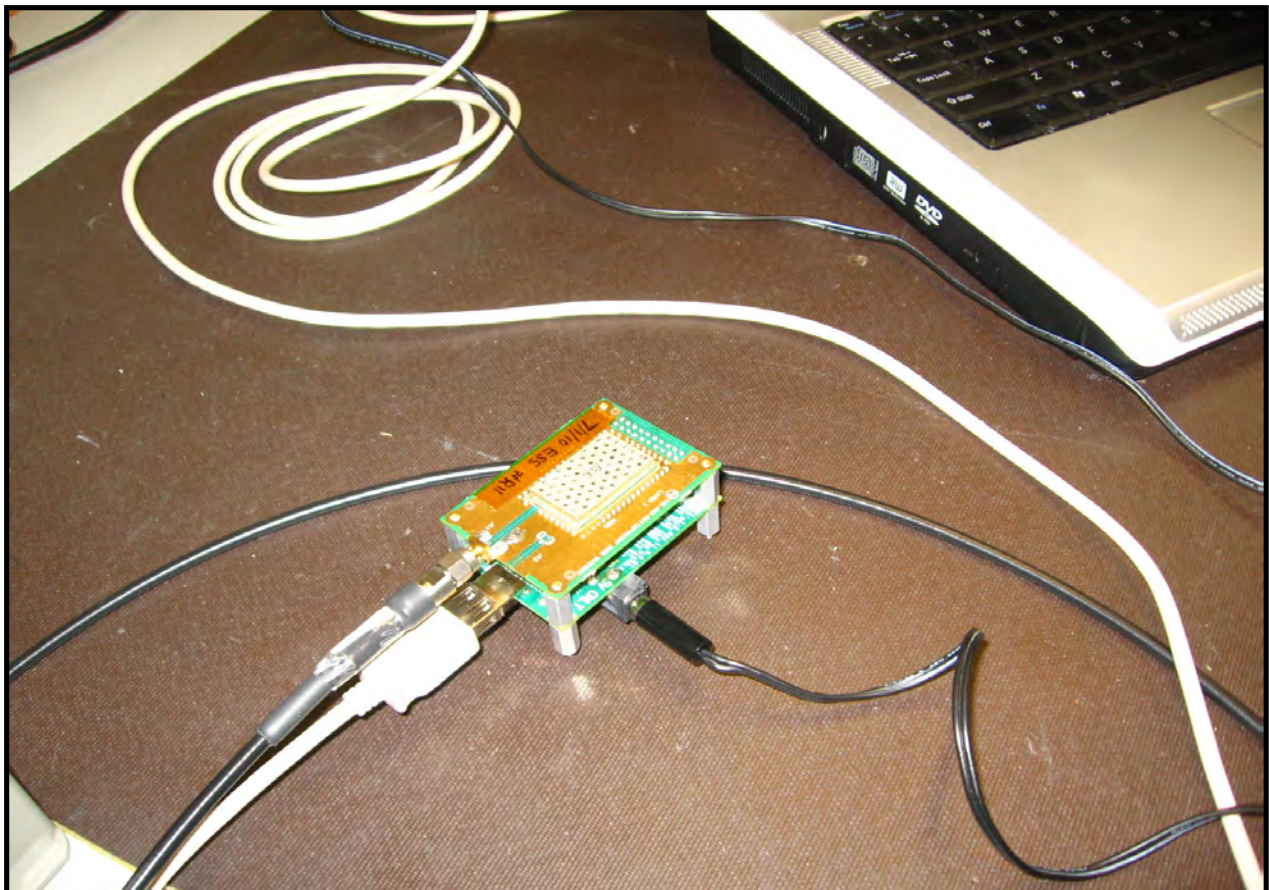
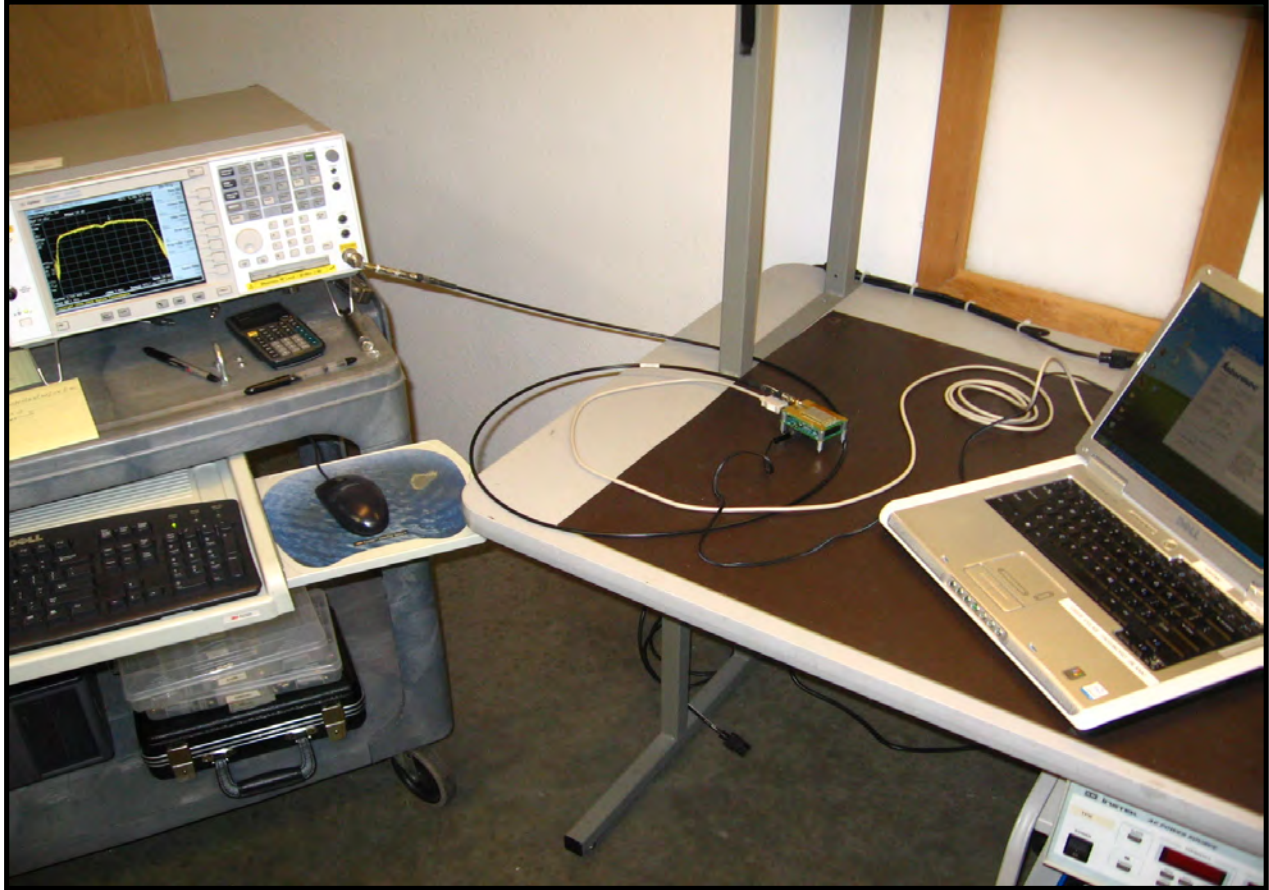
Result: Pass **Value:** 1.0 dbm / MHz **Limit:** 4 dBm / MHz



802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 140, High Channel

Result: Pass **Value:** 1.2 dbm / MHz **Limit:** 4 dBm / 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
Spectrum Analyzer	Agilent	E4440A	AFD	6/1/2009	24
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
26 GHz DC Block, SMA	Pasternack	PE8210	AME	10/19/2009	13
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/21/2009	13
Attenuator, 6 dB, 'SMA'	N/A	93459 3330A-6	AUF	4/1/2010	13
Power Meter	Gigatronics	8651A	SPM	1/7/2010	13
Power Sensor	Gigatronics	80701A	SPL	1/7/2010	13
Signal Generator	Agilent	E8257D	TGX	12/10/2008	24

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

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

The spectrum analyzer settings were as follows:

- Span set to encompass the entire emission bandwidth (B), centered on the transmit channel.
- Using the marker delta function, the largest difference between the following two traces was measured:
 - 1st Trace: RBW = 1 MHz, VBW >= 3 MHz with peak detector and max-hold settings.
 - 2nd Trace: Use same settings as were used for peak conducted transmit power. The sample detector was used as well as the VBW being matched to that used on the peak conducted transmit power.

EUT: RC12	Work Order: INMC0575
Serial Number: R11	Date: 08/04/10
Customer: Intermec Technologies Corporation	Temperature: 21°C
Attendees: None	Humidity: 38%
Project: None	Barometric Pres.: 1012.5 mb
Tested by: Rod Peloquin	Power: 5VDC
	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.407:2010	ANSI C63.10:2009

COMMENTS
None

DEVIATIONS FROM TEST STANDARD
No deviations

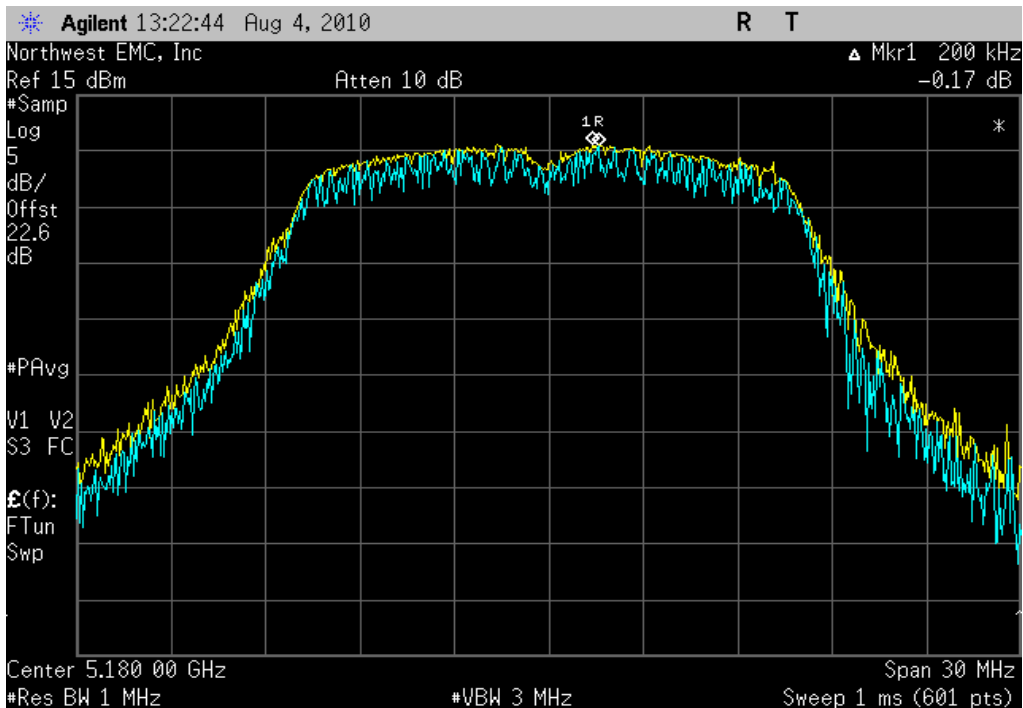
Configuration #	2	Signature 
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		Value	Limit	Results
802.11(a) 6 Mbps	5150 - 5250 MHz Band			
	Channel 36, Low Channel	0.2 dB	≤ 13 db	Pass
	Channel 48, High Channel	0.6 dB	≤ 13 db	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	0.8 dB	≤ 13 db	Pass
	Channel 64, High Channel	0.9 dB	≤ 13 db	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	1.2 dB	≤ 13 db	Pass
	Channel 116, Mid Channel	0.5 dB	≤ 13 db	Pass
	Channel 140, High Channel	0.6 dB	≤ 13 db	Pass
802.11(a) 36 Mbps	5150 - 5250 MHz Band			
	Channel 36, Low Channel	0.6 dB	≤ 13 db	Pass
	Channel 48, High Channel	0.4 dB	≤ 13 db	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	1.1 dB	≤ 13 db	Pass
	Channel 64, High Channel	1.3 dB	≤ 13 db	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	0.5 dB	≤ 13 db	Pass
	Channel 116, Mid Channel	1.5 dB	≤ 13 db	Pass
	Channel 140, High Channel	1.1 dB	≤ 13 db	Pass
802.11(a) 54 Mbps	5150 - 5250 MHz Band			
	Channel 36, Low Channel	0.5 dB	≤ 13 db	Pass
	Channel 48, High Channel	1.0 dB	≤ 13 db	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	0.8 dB	≤ 13 db	Pass
	Channel 64, High Channel	0.8 dB	≤ 13 db	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	0.4 dB	≤ 13 db	Pass
	Channel 116, Mid Channel	0.3 dB	≤ 13 db	Pass
	Channel 140, High Channel	0.9 dB	≤ 13 db	Pass
802.11(n) MCS0	5150 - 5250 MHz Band			
	Channel 36, Low Channel	0.2 dB	≤ 13 db	Pass
	Channel 48, High Channel	0.8 dB	≤ 13 db	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	0.8 dB	≤ 13 db	Pass
	Channel 64, High Channel	0.7 dB	≤ 13 db	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	0.1 dB	≤ 13 db	Pass
	Channel 116, Mid Channel	0.3 dB	≤ 13 db	Pass
	Channel 140, High Channel	1.2 dB	≤ 13 db	Pass
802.11(n) MCS7	5150 - 5250 MHz Band			
	Channel 36, Low Channel	0.0 dB	≤ 13 db	Pass
	Channel 48, High Channel	0.0 dB	≤ 13 db	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	0.8 dB	≤ 13 db	Pass
	Channel 64, High Channel	0.6 dB	≤ 13 db	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	0.9 dB	≤ 13 db	Pass
	Channel 116, Mid Channel	0.2 dB	≤ 13 db	Pass
	Channel 140, High Channel	1.5 dB	≤ 13 db	Pass

PEAK EXCURSION

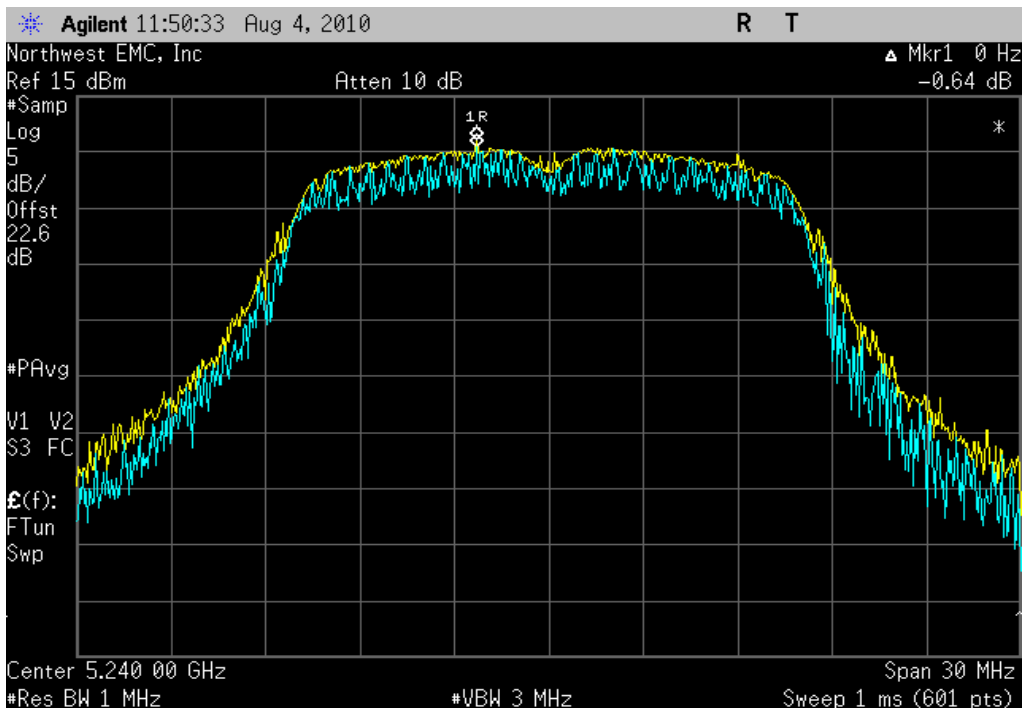
802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

Result: Pass **Value:** 0.2 dB **Limit:** ≤ 13 db



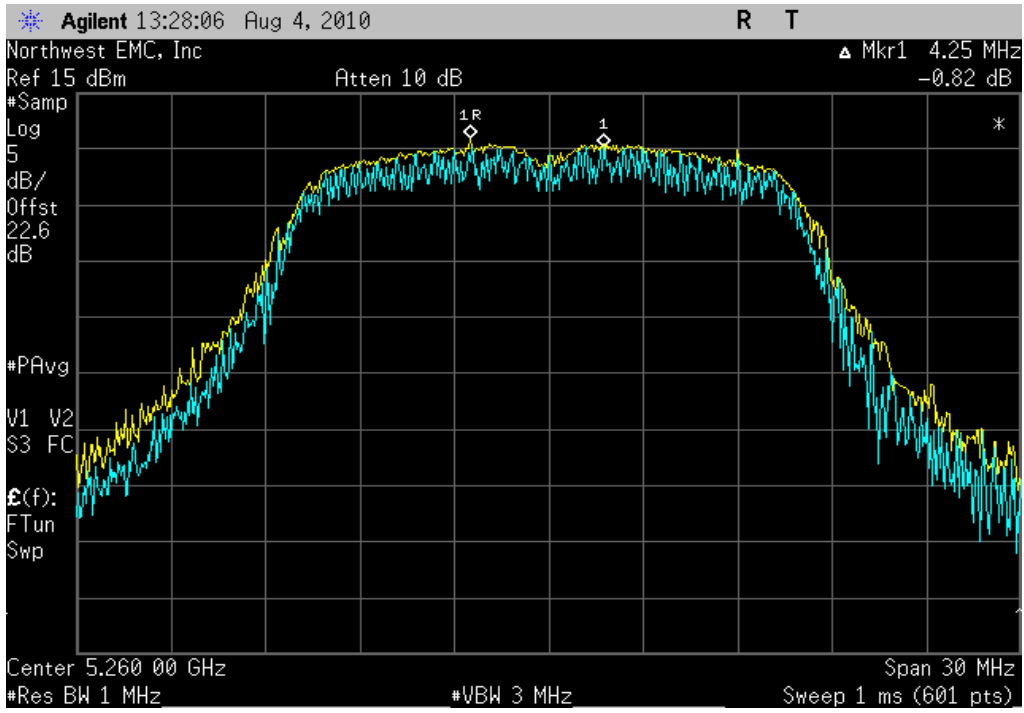
802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel

Result: Pass **Value:** 0.6 dB **Limit:** ≤ 13 db



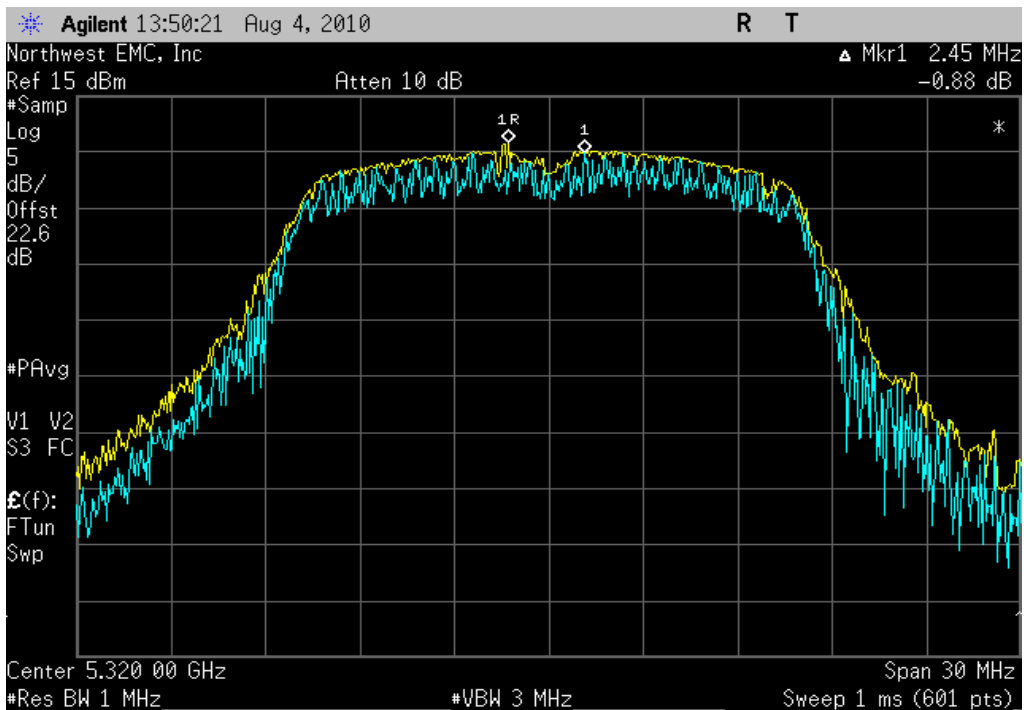
802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel

Result: Pass **Value:** 0.8 dB **Limit:** ≤ 13 db



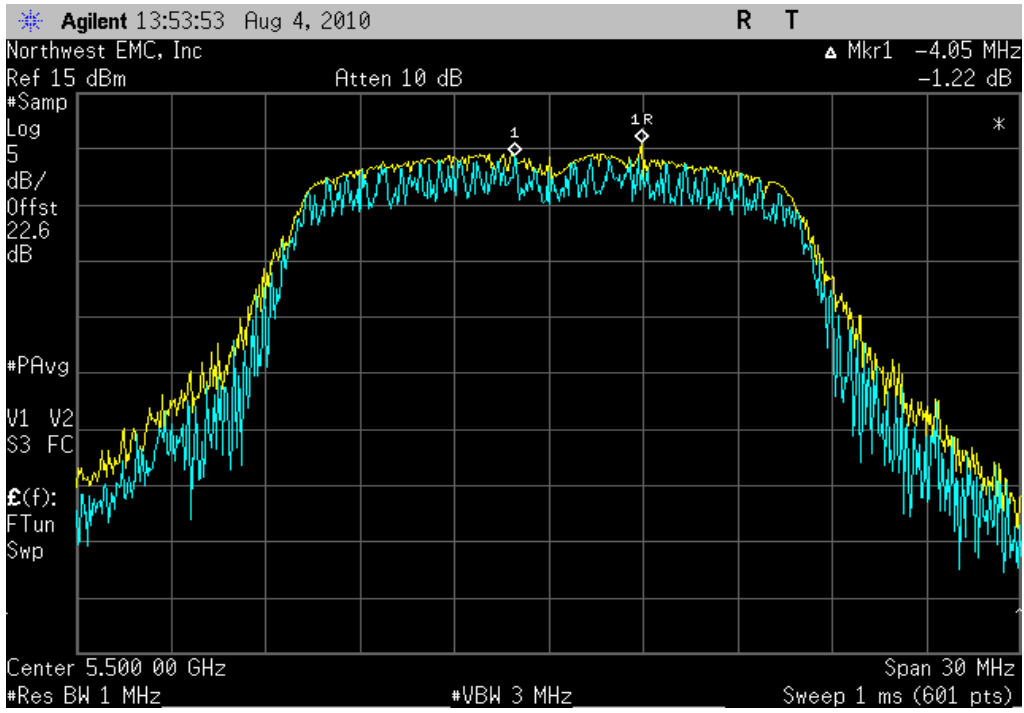
802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel

Result: Pass **Value:** 0.9 dB **Limit:** ≤ 13 db



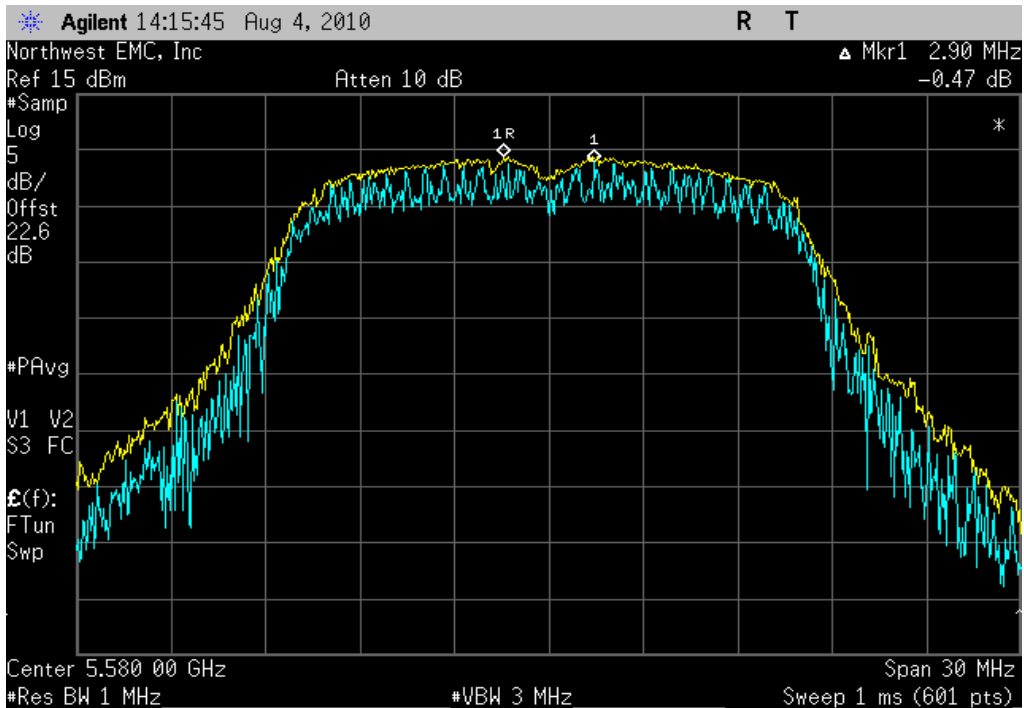
802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel

Result: Pass **Value:** 1.2 dB **Limit:** ≤ 13 db



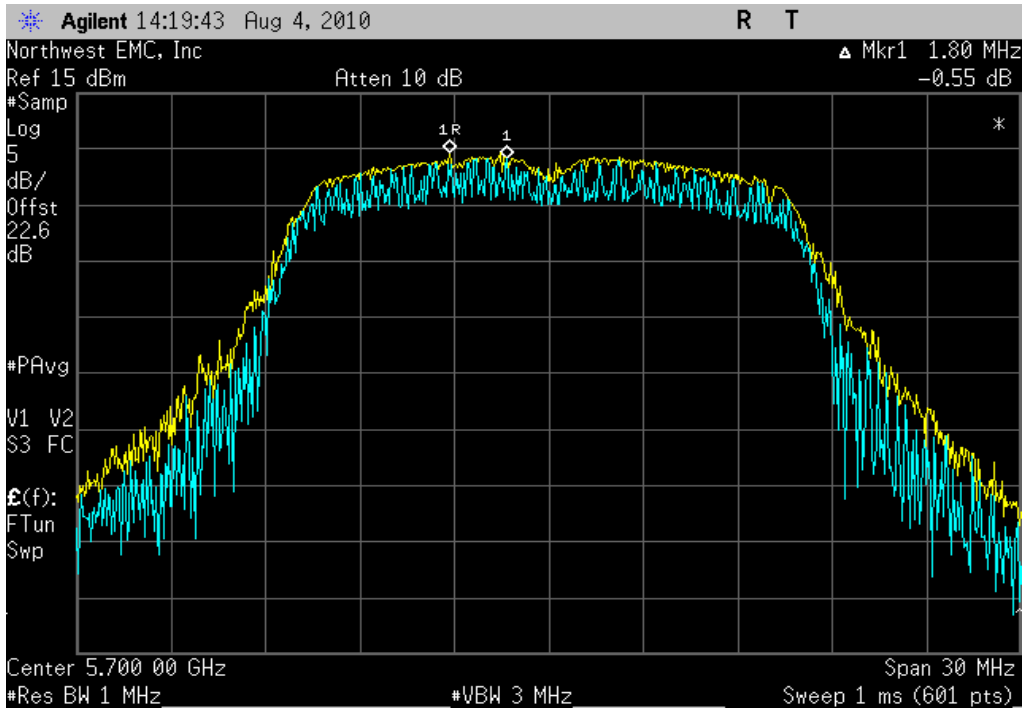
802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel

Result: Pass **Value:** 0.5 dB **Limit:** ≤ 13 db



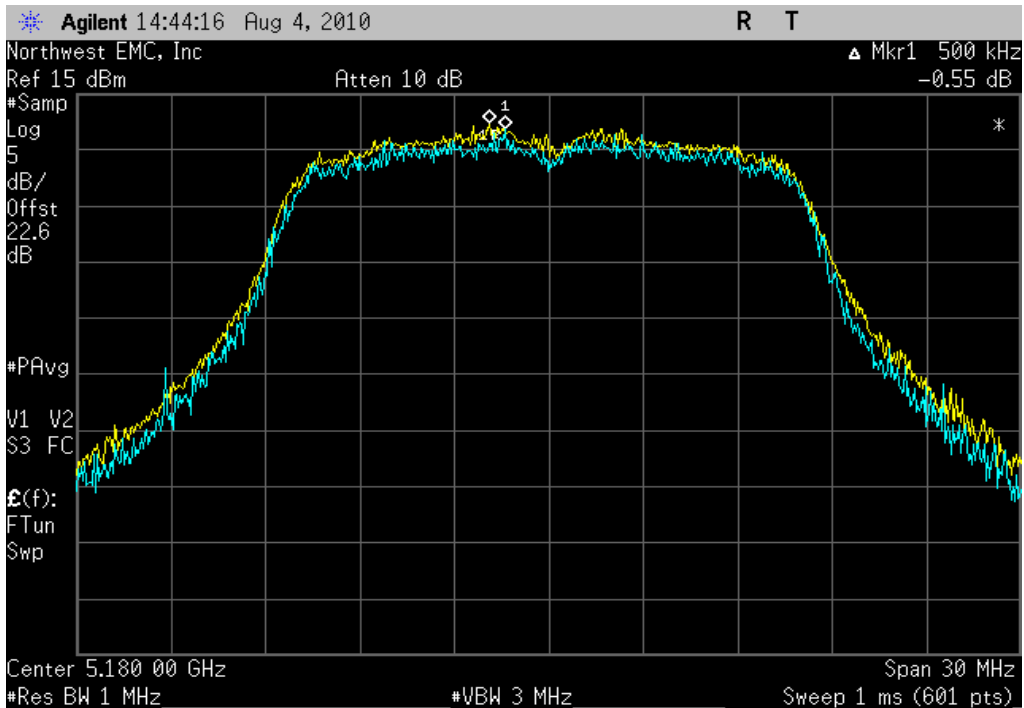
802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

Result: Pass **Value:** 0.6 dB **Limit:** ≤ 13 db



802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

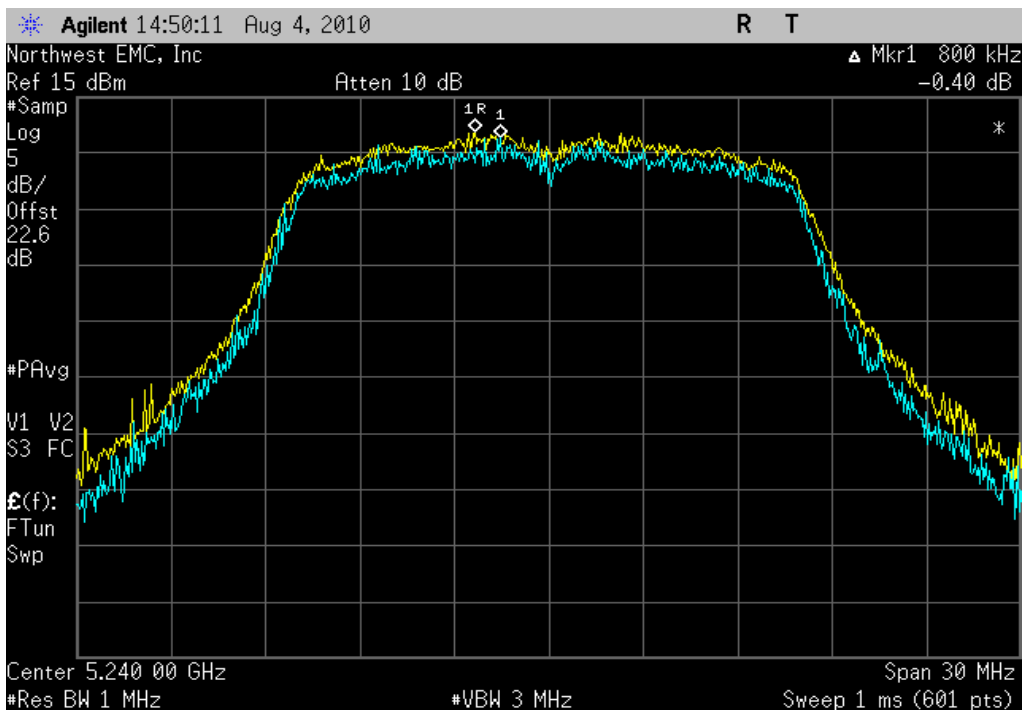
Result: Pass **Value:** 0.6 dB **Limit:** ≤ 13 db



PEAK EXCURSION

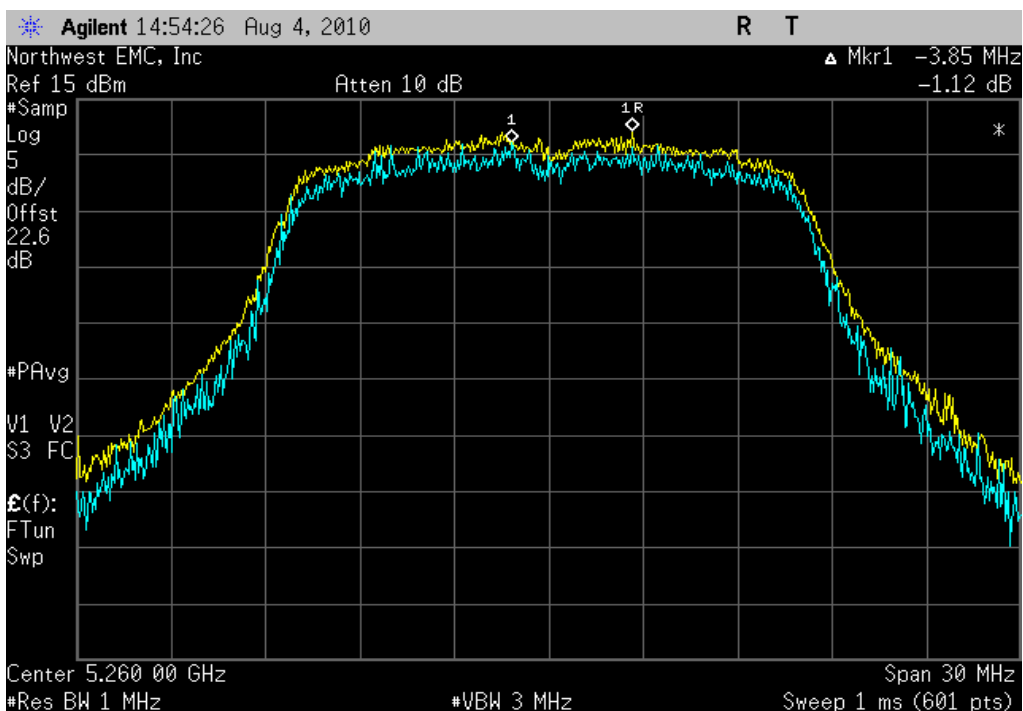
802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel

Result: Pass **Value:** 0.4 dB **Limit:** ≤ 13 db



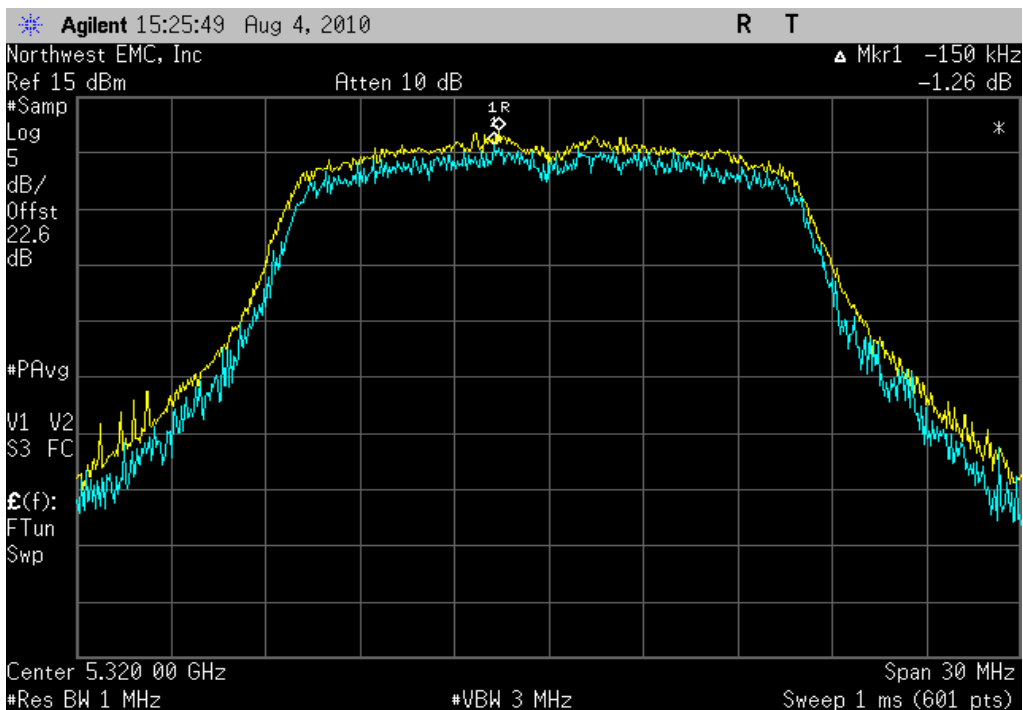
802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel

Result: Pass **Value:** 1.1 dB **Limit:** ≤ 13 db



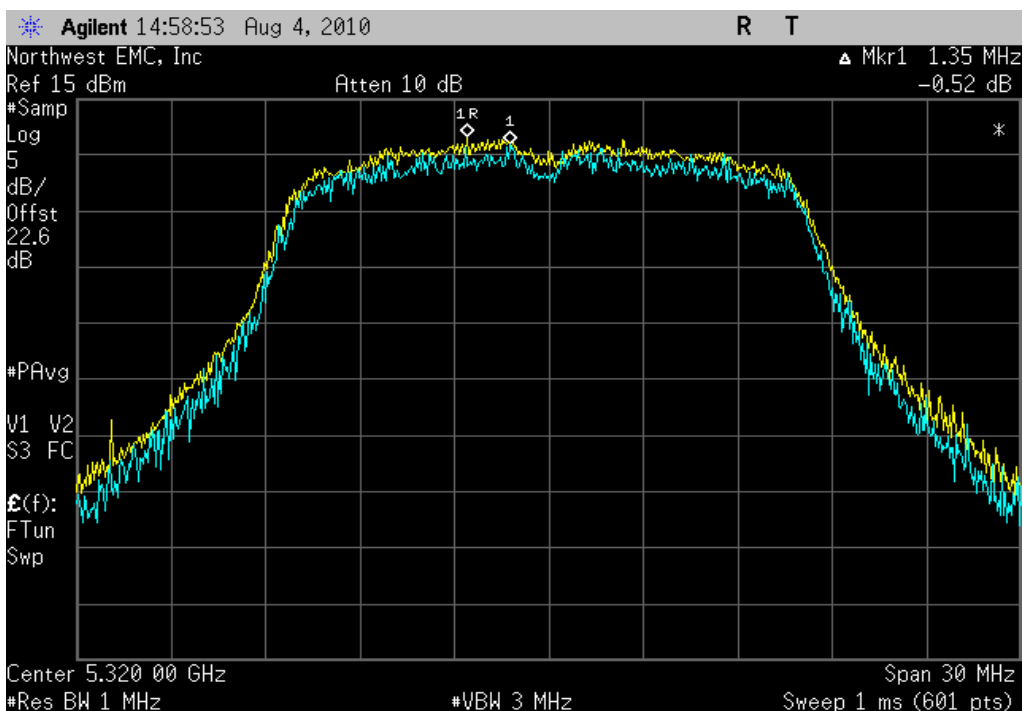
802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel

Result: Pass **Value:** 1.3 dB **Limit:** ≤ 13 db



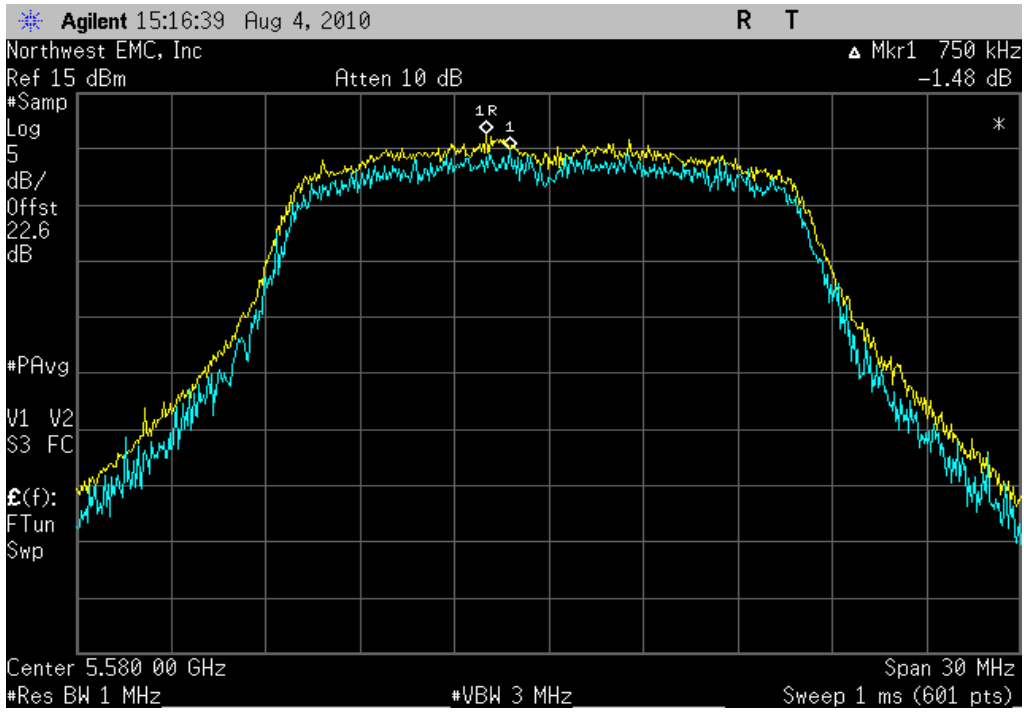
802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel

Result: Pass **Value:** 0.5 dB **Limit:** ≤ 13 db



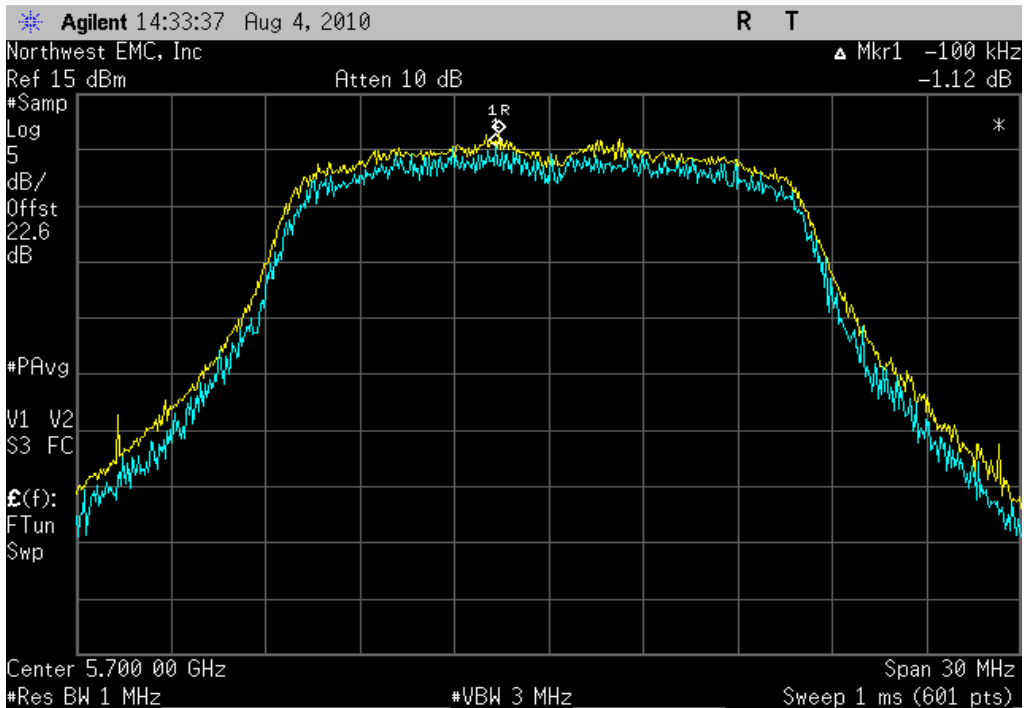
802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel

Result: Pass **Value:** 1.5 dB **Limit:** ≤ 13 db



802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

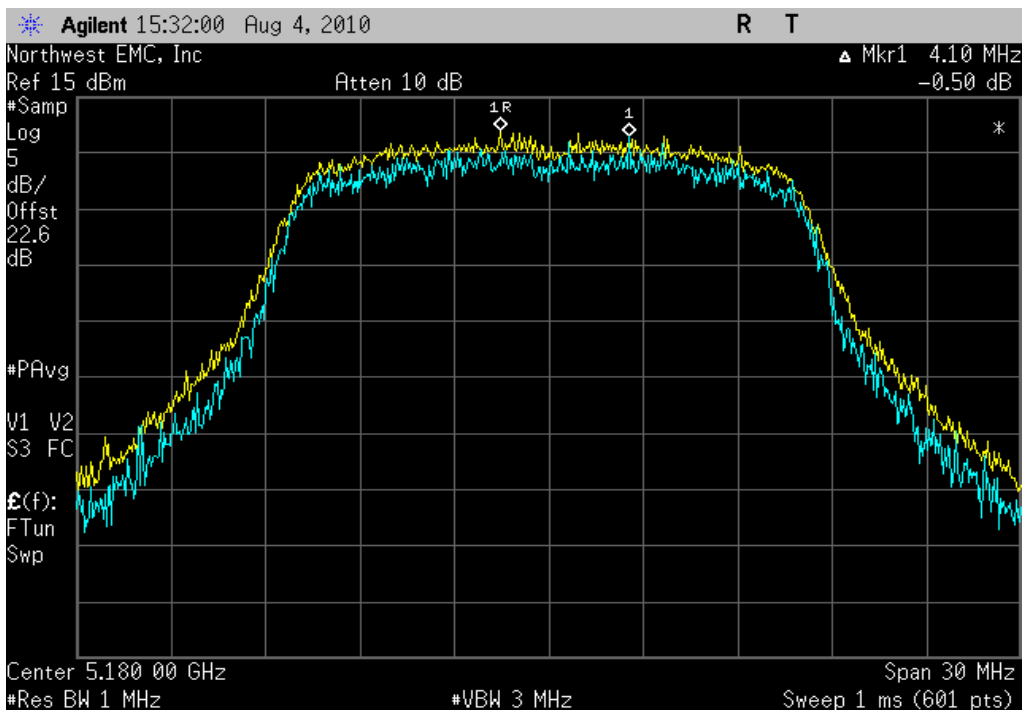
Result: Pass **Value:** 1.1 dB **Limit:** ≤ 13 db



PEAK EXCURSION

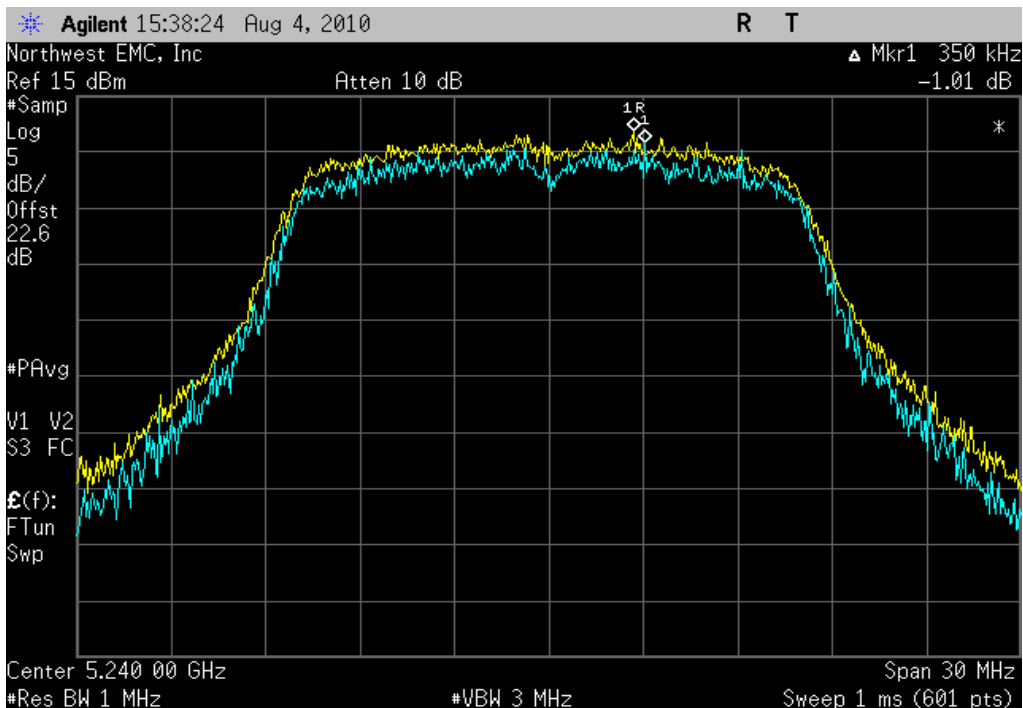
802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

Result: Pass **Value:** 0.5 dB **Limit:** ≤ 13 db



802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel

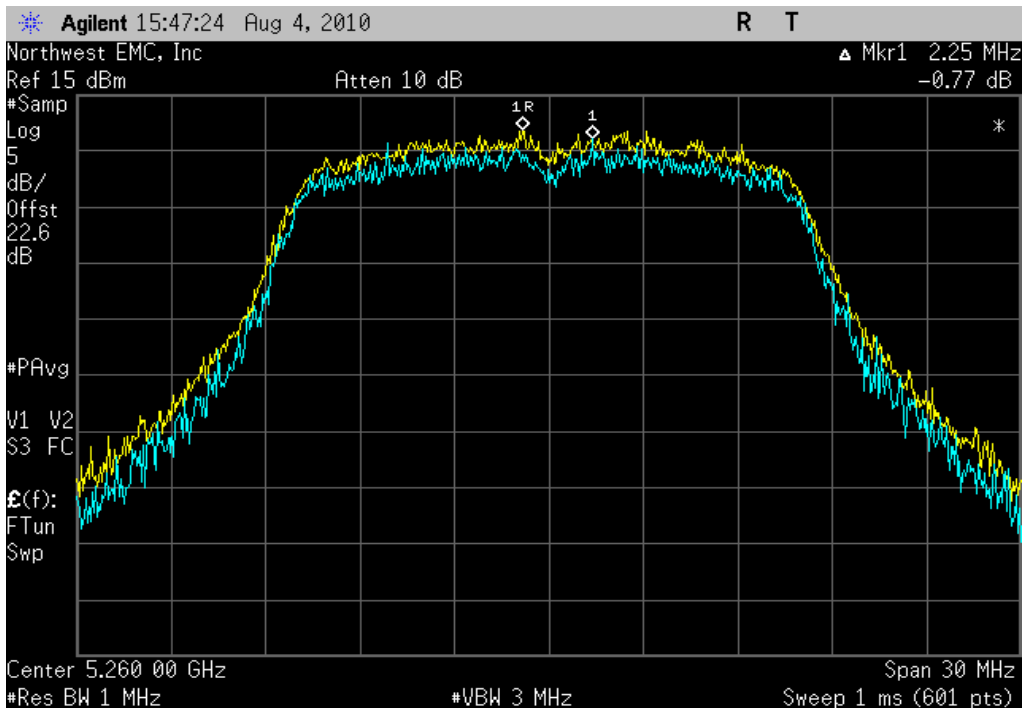
Result: Pass **Value:** 1.0 dB **Limit:** ≤ 13 db



PEAK EXCURSION

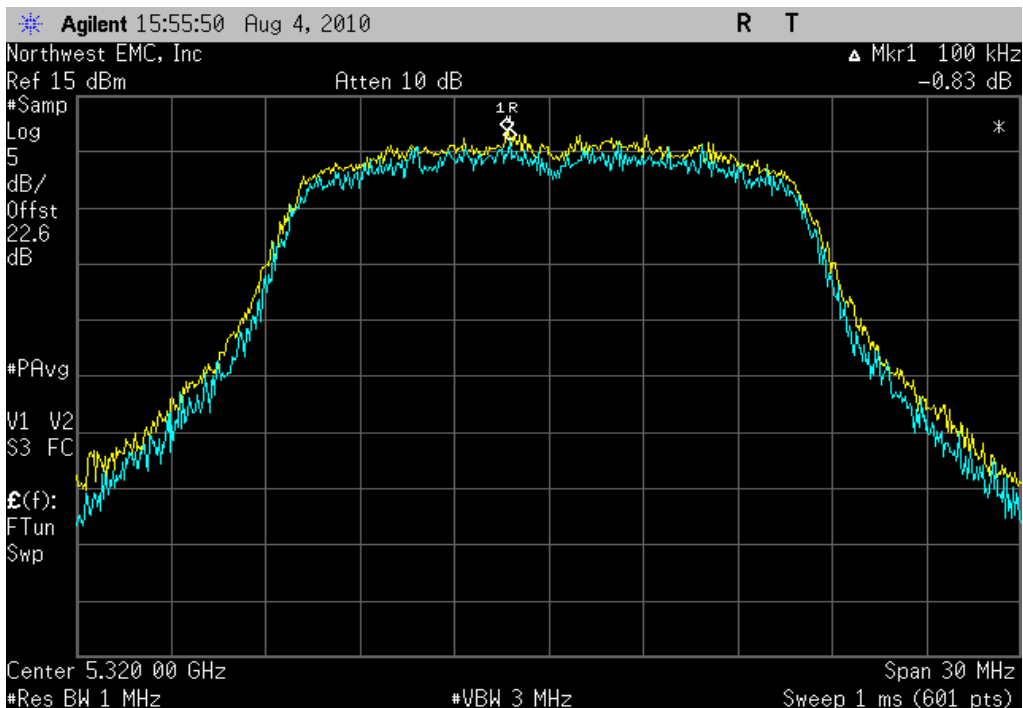
802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel

Result: Pass **Value:** 0.8 dB **Limit:** ≤ 13 db



802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel

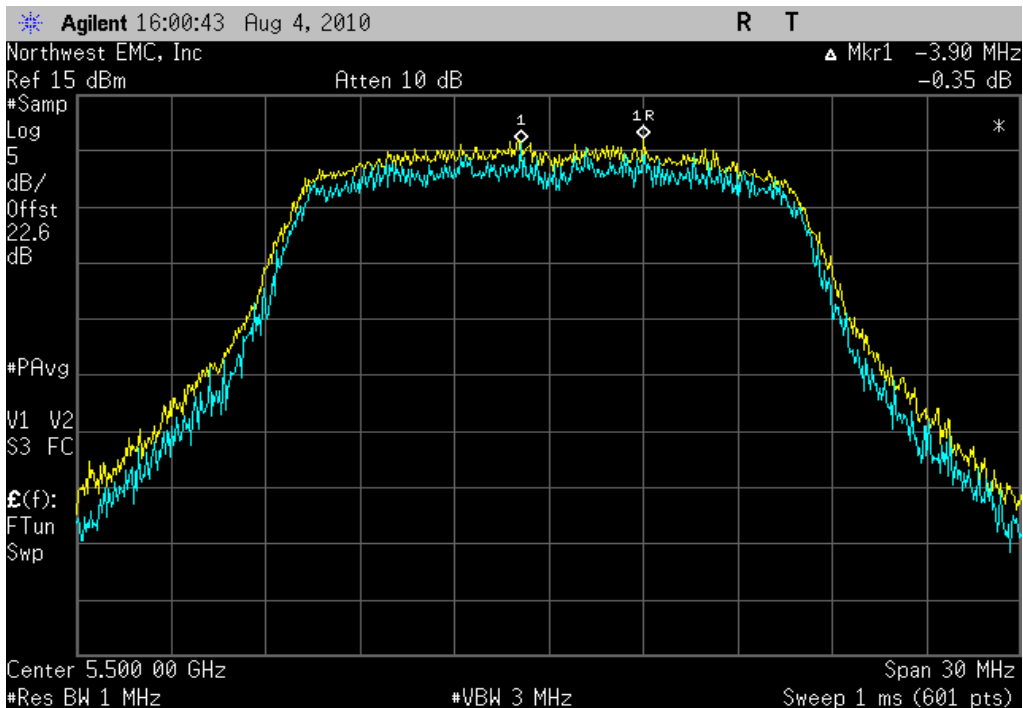
Result: Pass **Value:** 0.8 dB **Limit:** ≤ 13 db



PEAK EXCURSION

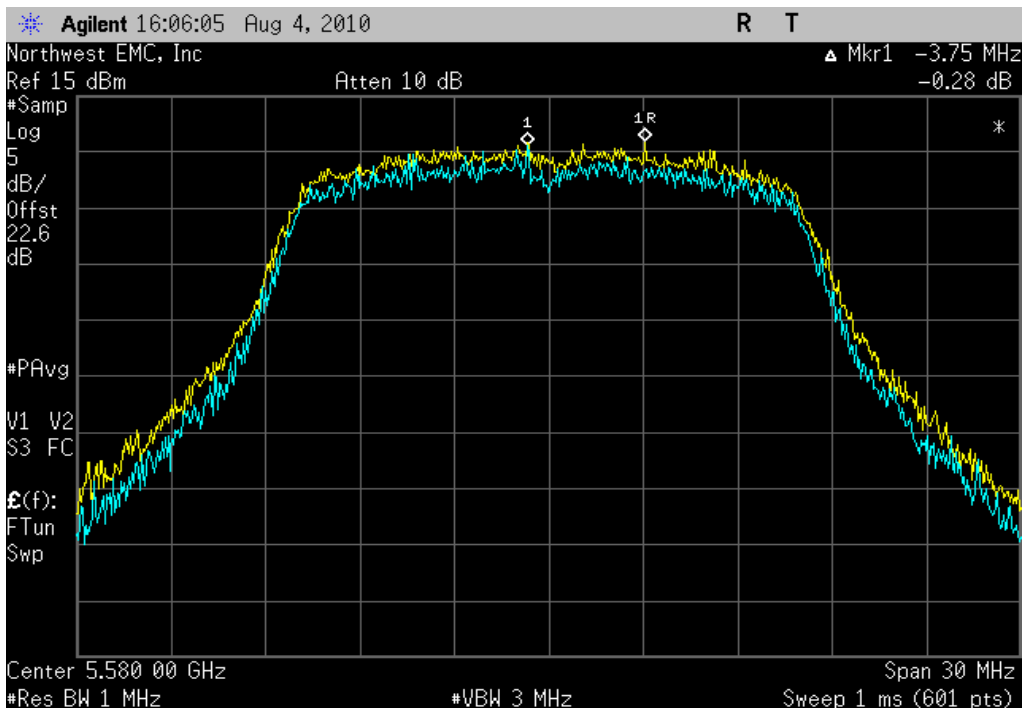
802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel

Result: Pass **Value:** 0.4 dB **Limit:** ≤ 13 db



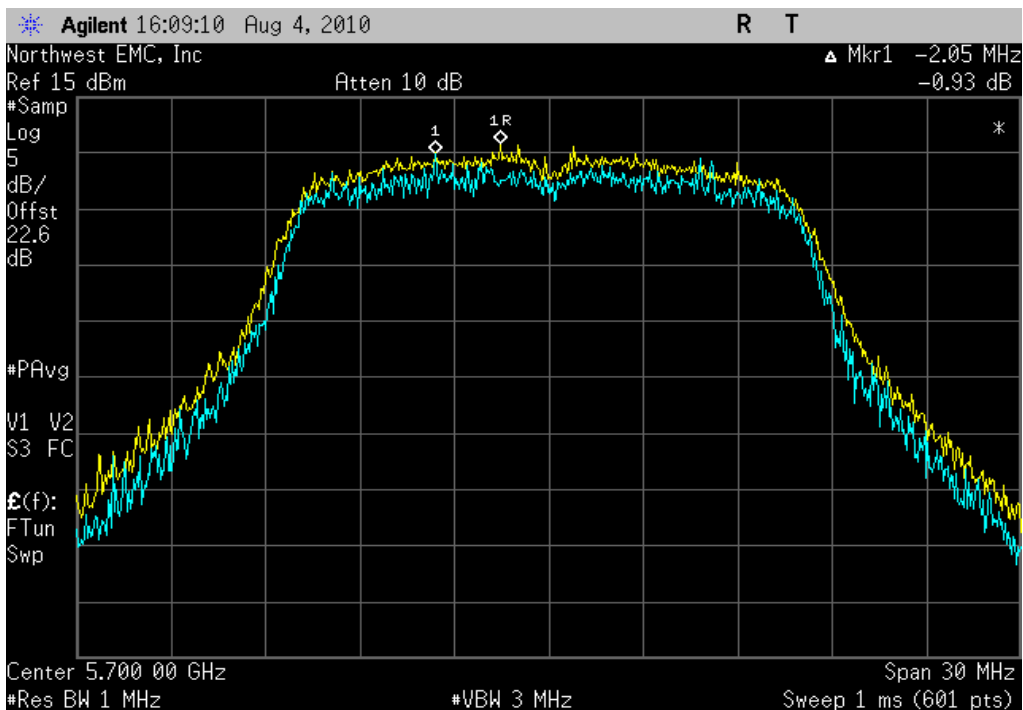
802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel

Result: Pass **Value:** 0.3 dB **Limit:** ≤ 13 db



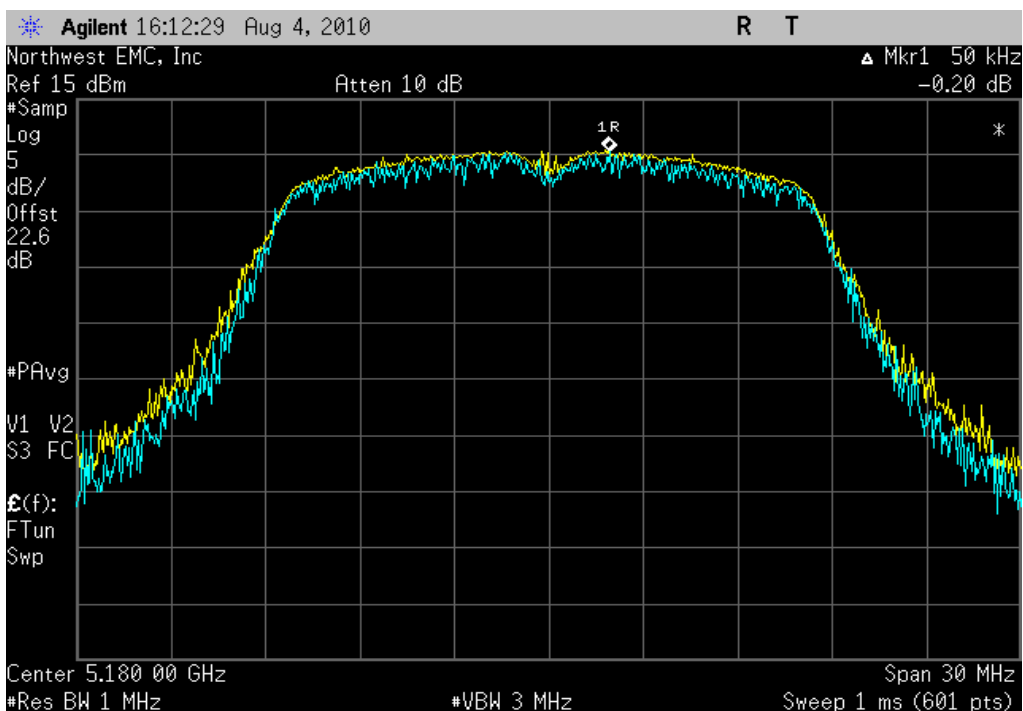
802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

Result: Pass **Value:** 0.9 dB **Limit:** ≤ 13 dB



802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 36, Low Channel

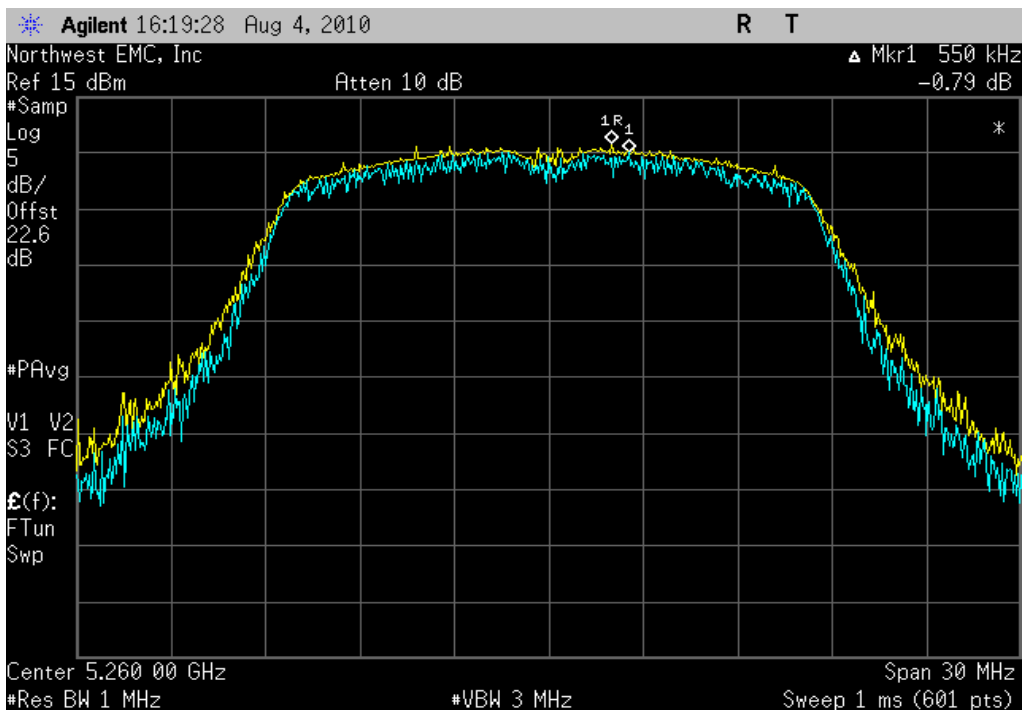
Result: Pass **Value:** 0.2 dB **Limit:** ≤ 13 dB



PEAK EXCURSION

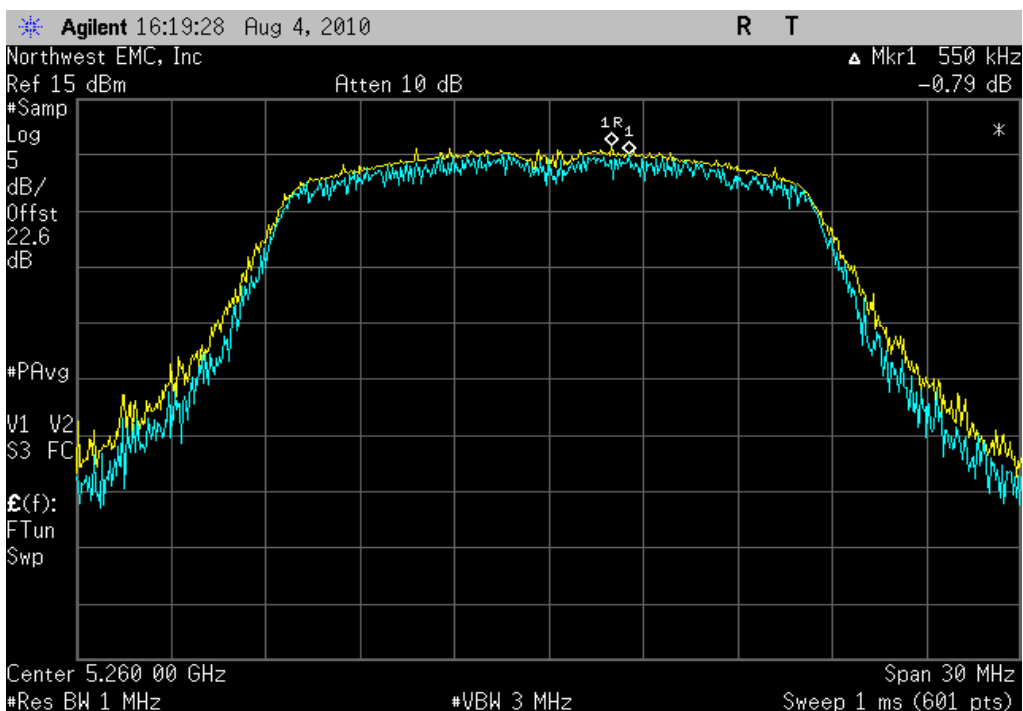
802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 48, High Channel

Result: Pass **Value:** 0.8 dB **Limit:** ≤ 13 db



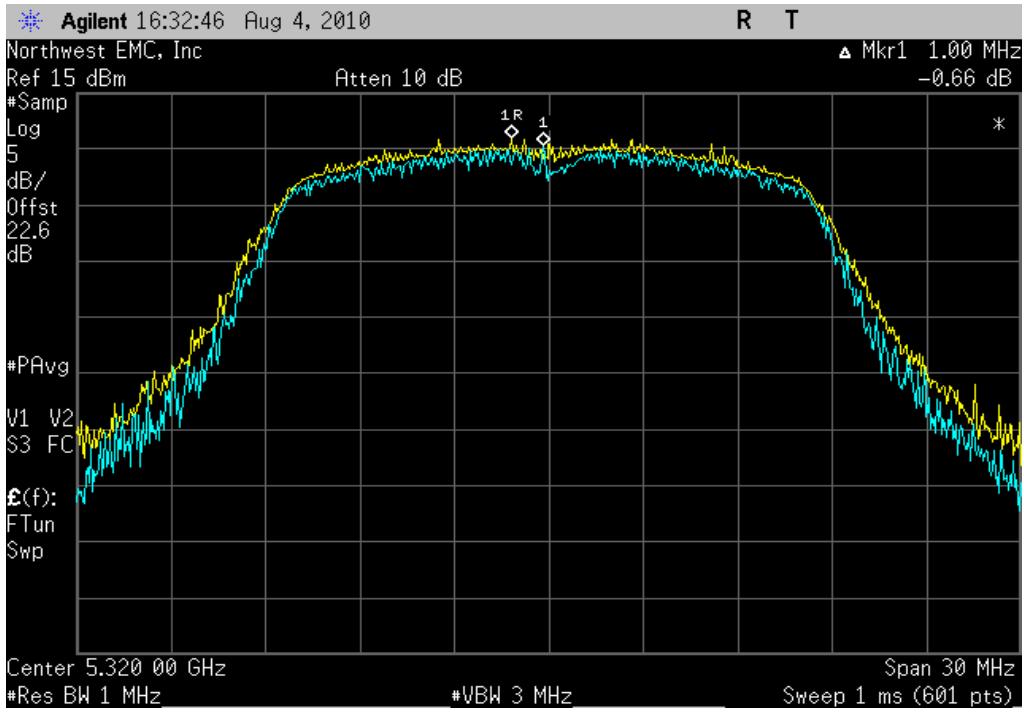
802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 52, Low Channel

Result: Pass **Value:** 0.8 dB **Limit:** ≤ 13 db



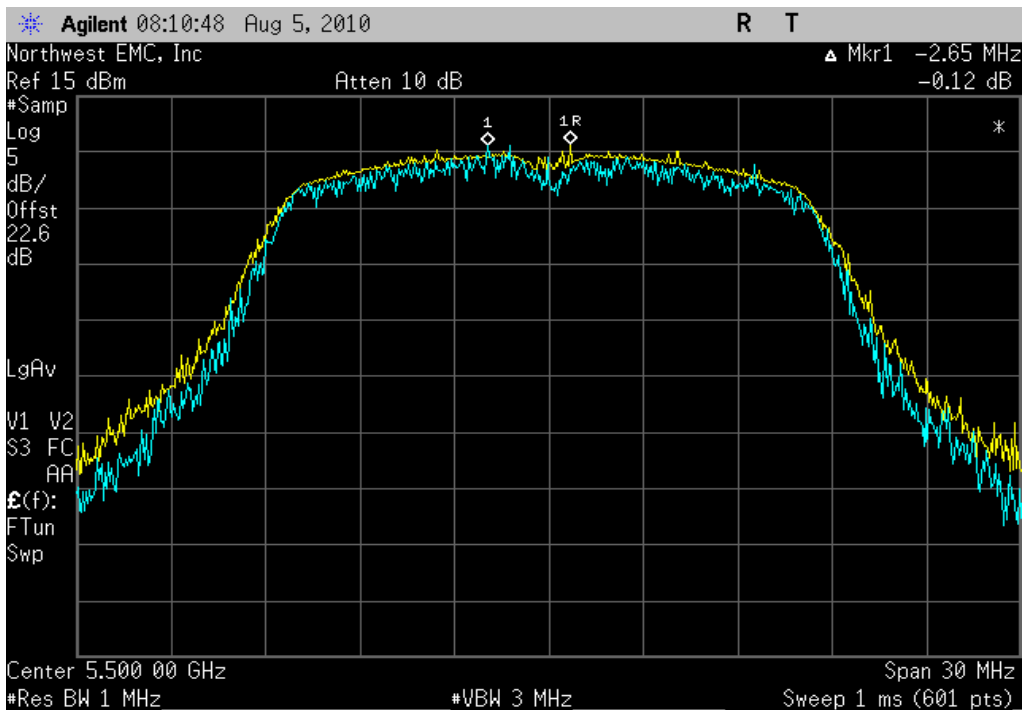
802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 64, High Channel

Result: Pass **Value:** 0.7 dB **Limit:** ≤ 13 db



802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 100, Low Channel

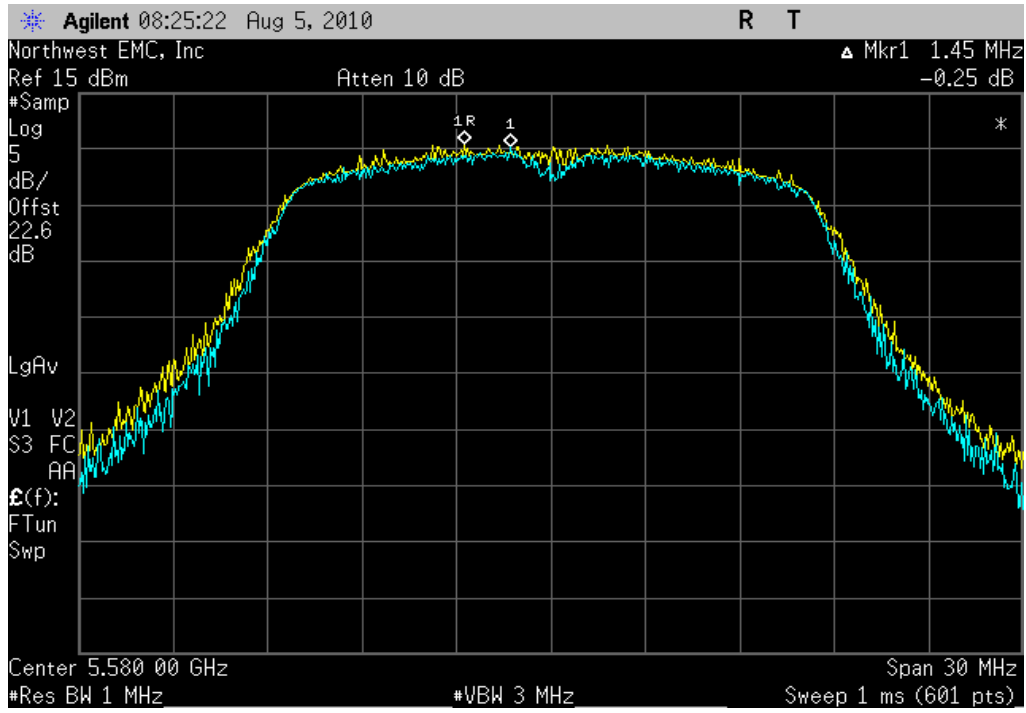
Result: Pass **Value:** 0.1 dB **Limit:** ≤ 13 db



PEAK EXCURSION

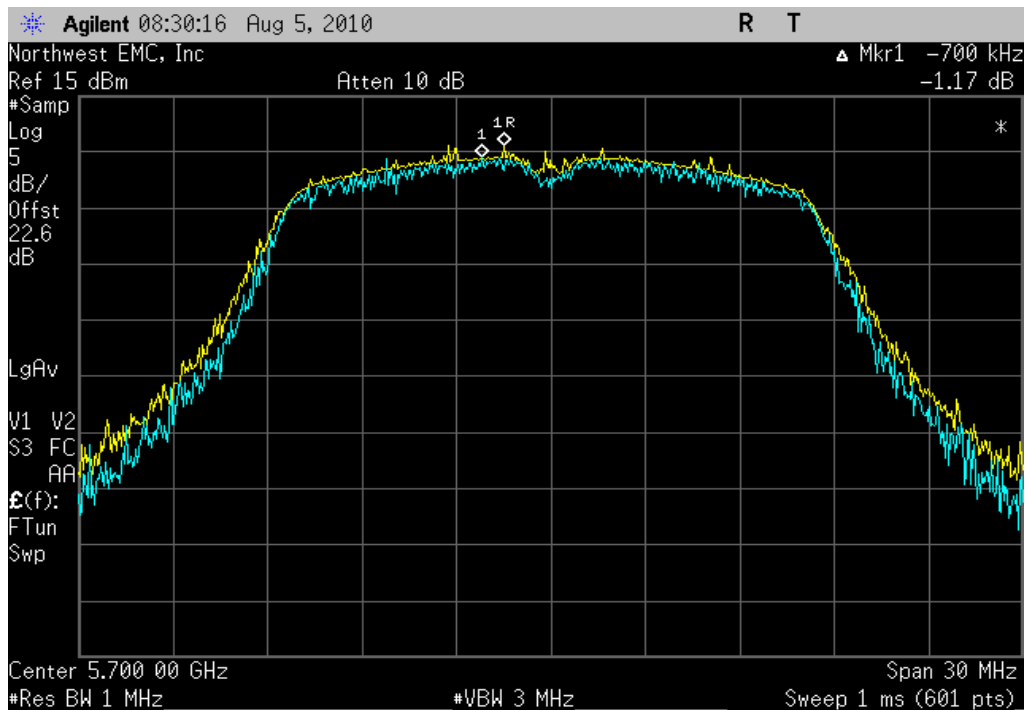
802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 116, Mid Channel

Result: Pass **Value:** 0.3 dB **Limit:** ≤ 13 dB



802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 140, High Channel

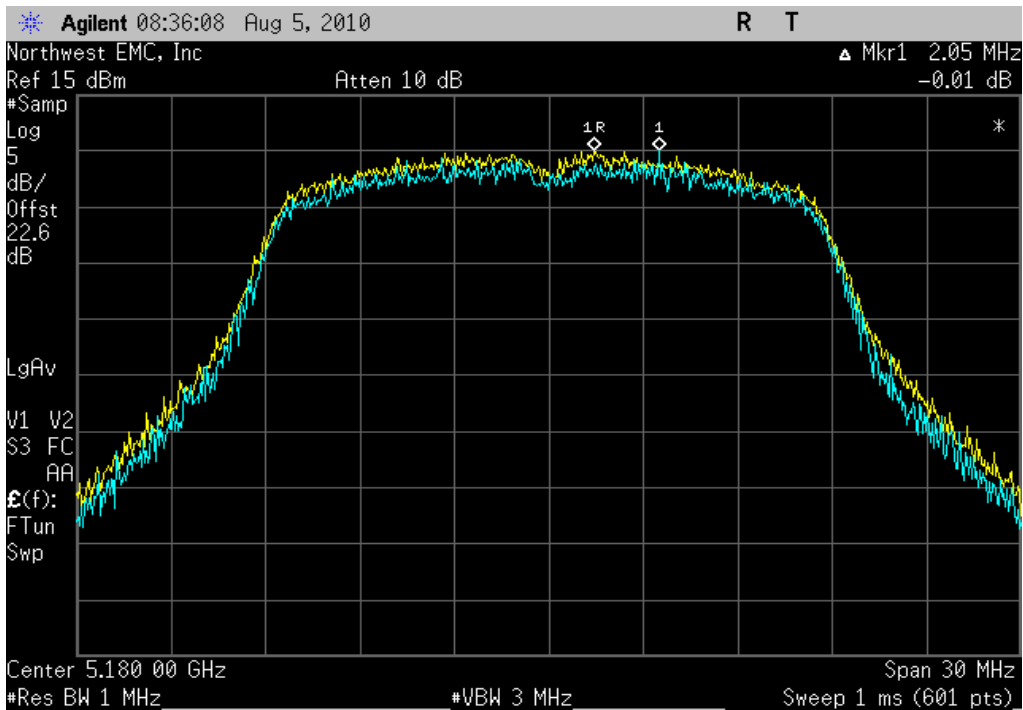
Result: Pass **Value:** 1.2 dB **Limit:** ≤ 13 dB



PEAK EXCURSION

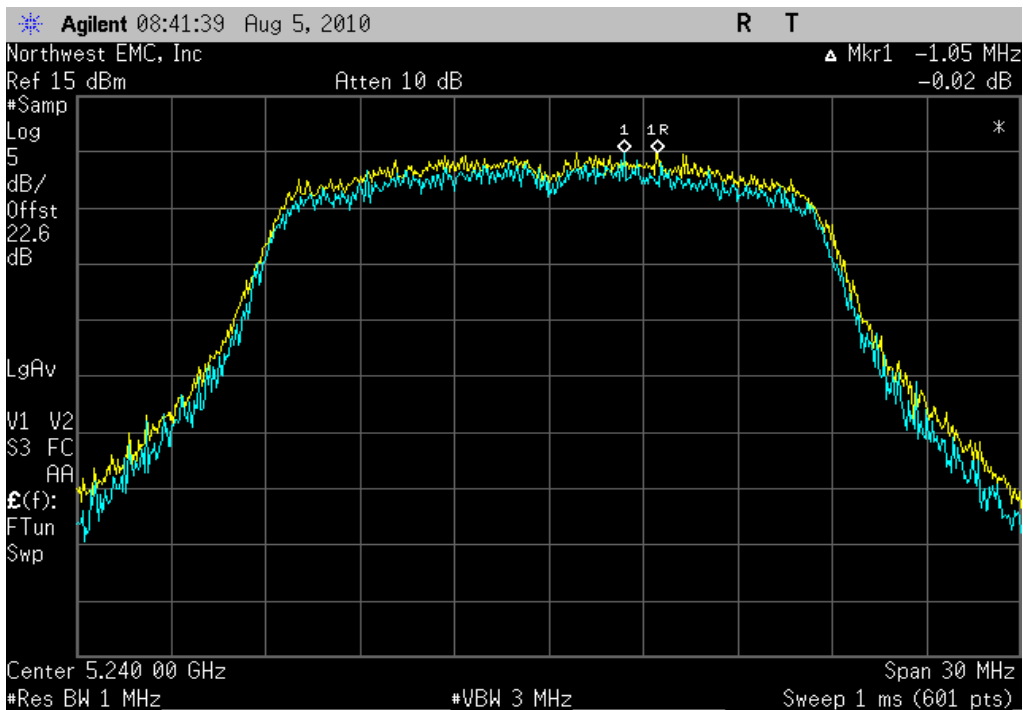
802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 36, Low Channel

Result: Pass **Value:** 0.0 dB **Limit:** ≤ 13 db



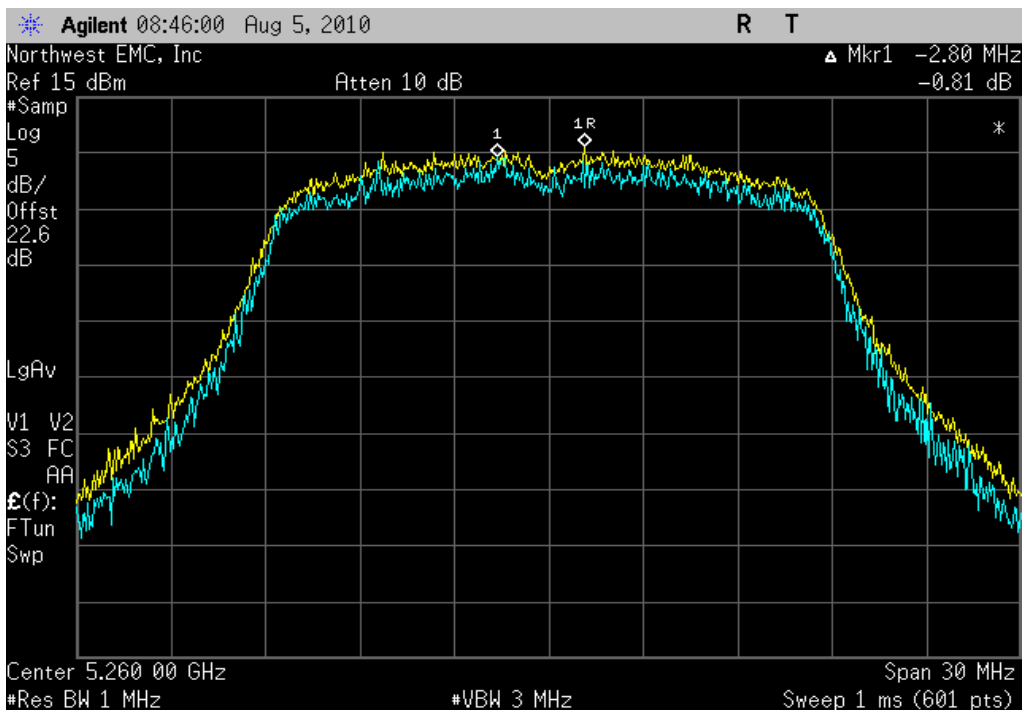
802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 48, High Channel

Result: Pass **Value:** 0.0 dB **Limit:** ≤ 13 db



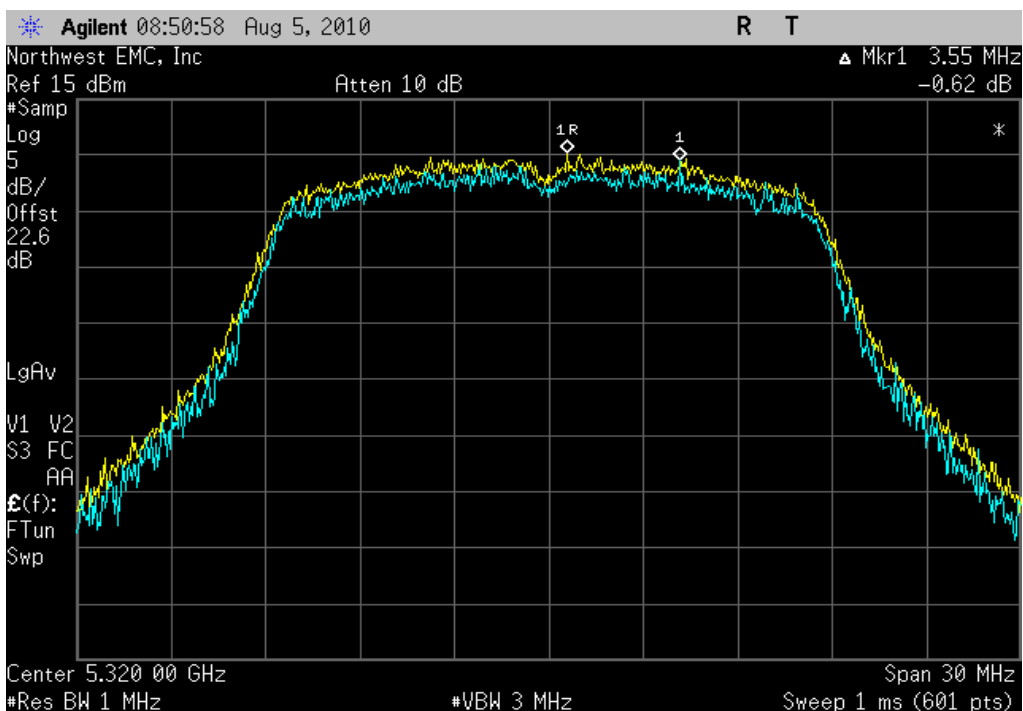
802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 52, Low Channel

Result: Pass **Value:** 0.8 dB **Limit:** ≤ 13 db



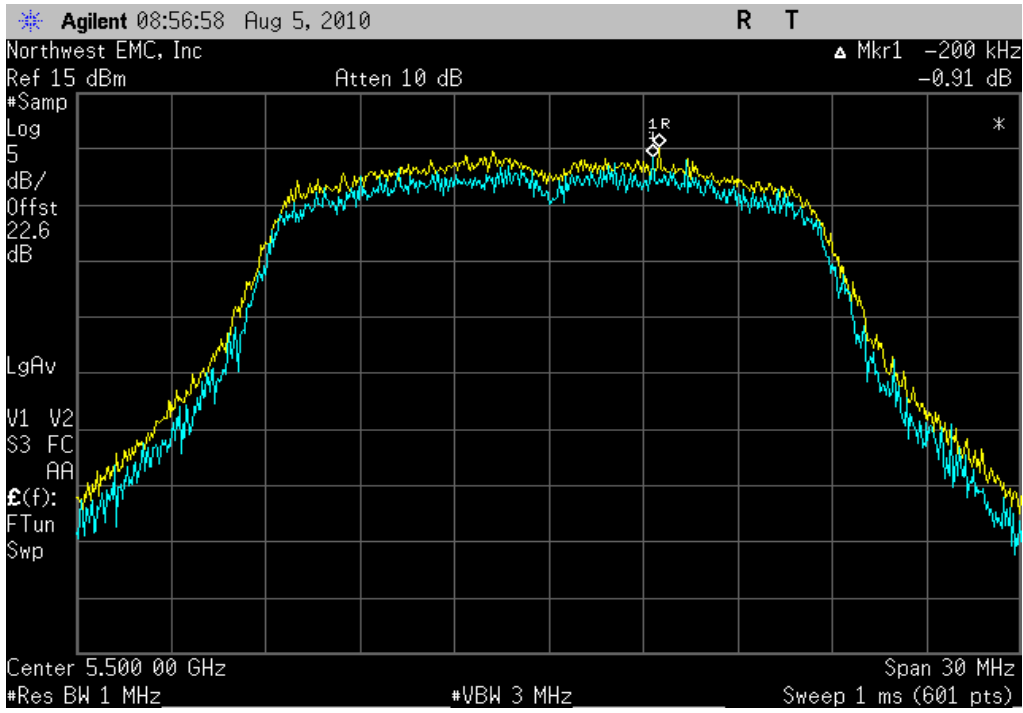
802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 64, High Channel

Result: Pass **Value:** 0.6 dB **Limit:** ≤ 13 db



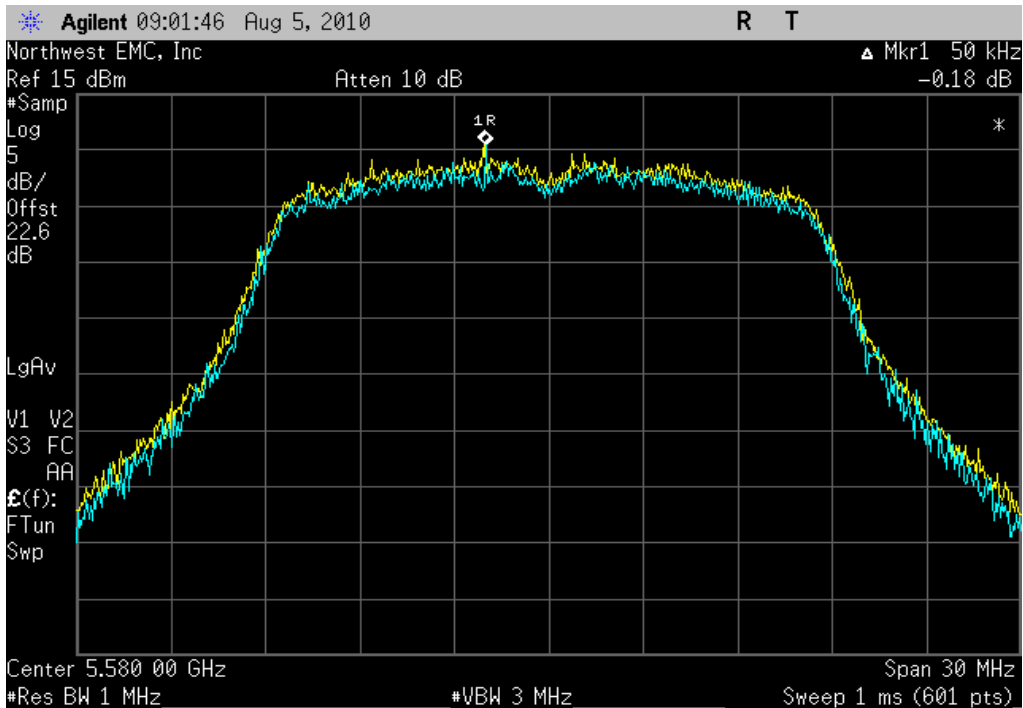
802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 100, Low Channel

Result: Pass **Value:** 0.9 dB **Limit:** ≤ 13 db



802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 116, Mid Channel

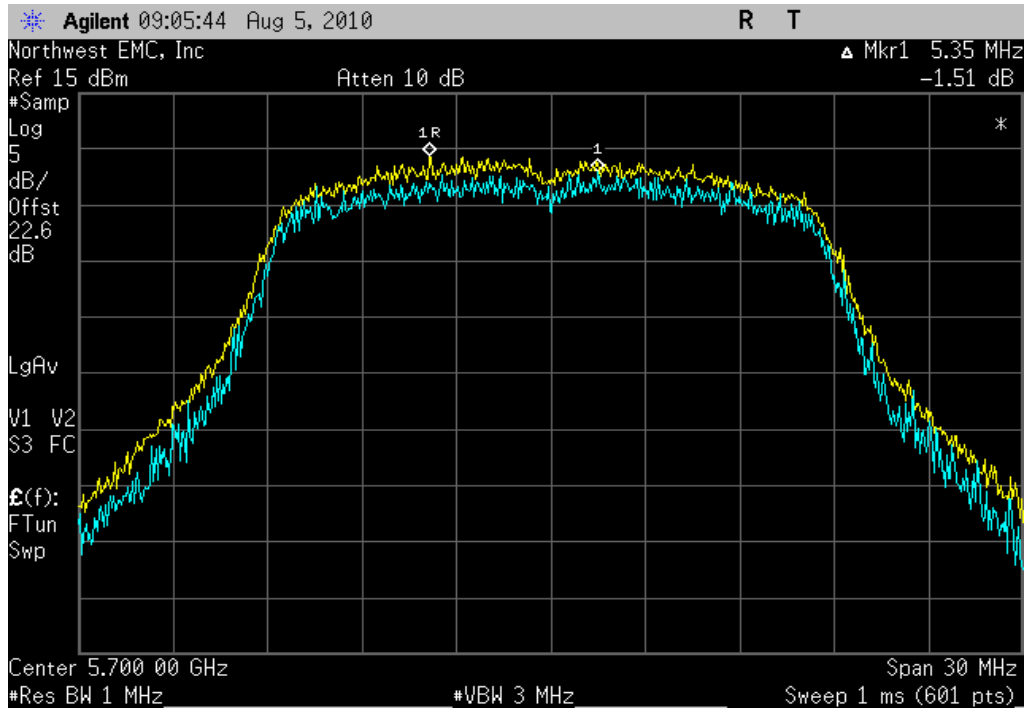
Result: Pass **Value:** 0.2 dB **Limit:** ≤ 13 db

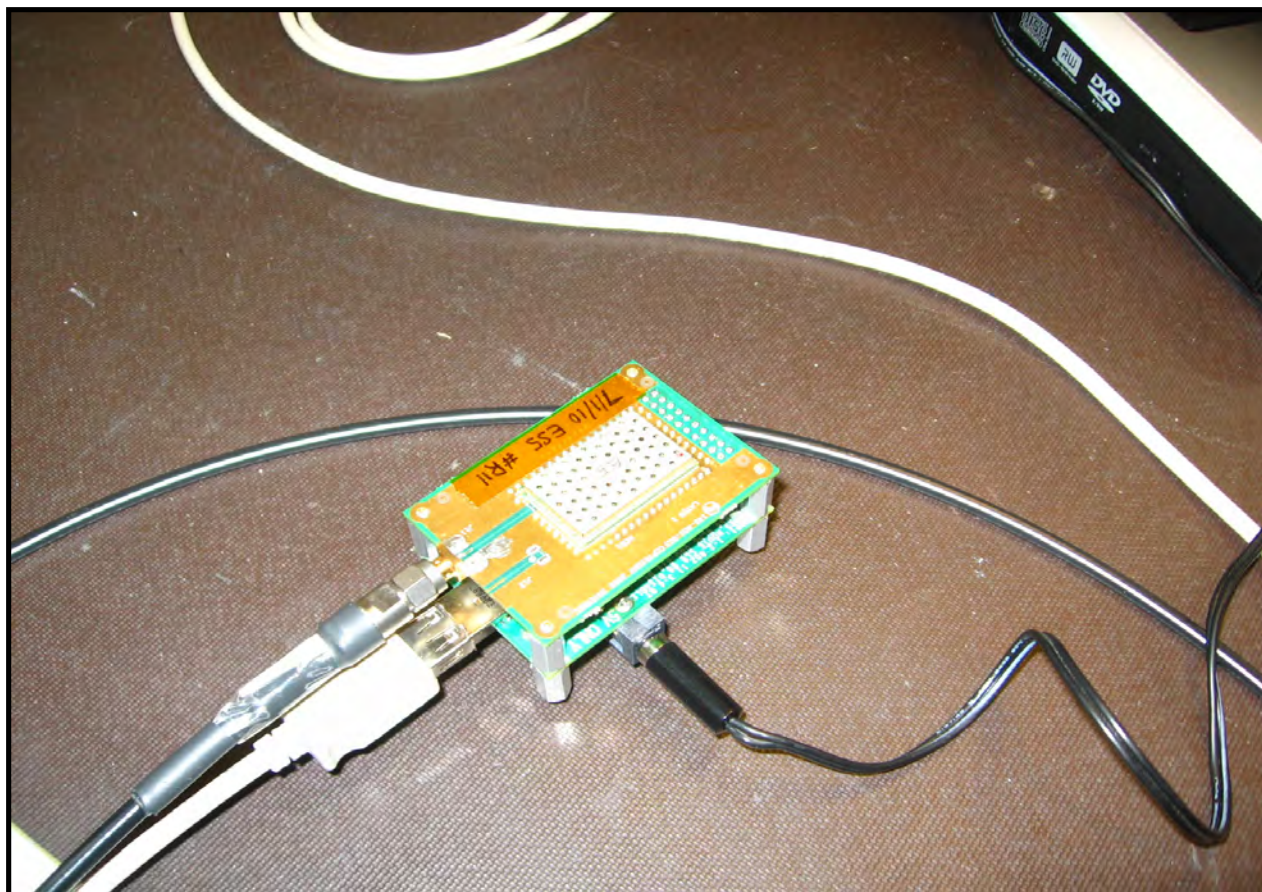
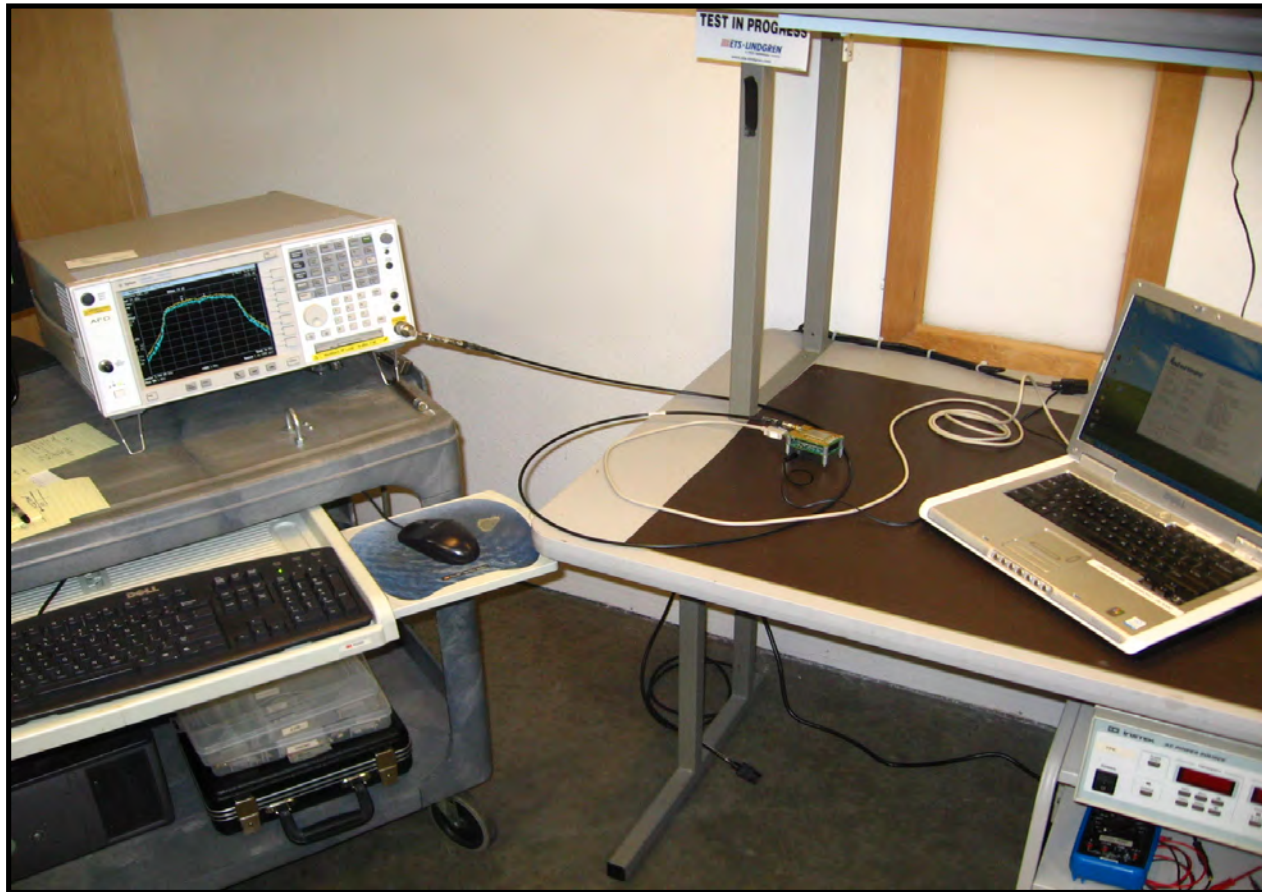


PEAK EXCURSION

802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 140, High Channel

Result: Pass **Value:** 1.5 dB **Limit:** ≤ 13 db





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	E4440A	AFD	6/1/2009	24
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/21/2009	13
26 GHz DC Block, SMA	Pasternack	PE8210	AME	10/19/2009	13
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
Multimeter	Tektronix	DMM912	MMH	12/10/2008	24
DC Power Supply	Topward	TPS-2000	TPD	NCR	0
Chamber Temp. & Humidity Controller	ESZ / Eurotherm	Dimension II	TBC	NCR	0
Chamber, Temp./Humidity Chamber	Cincinnati Sub Zero (CSZ)	ZH-32-2-2-H/AC	TBA	7/23/2008	25

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION


Variation of Supply Voltage

The primary supply voltage was varied from 85% to 115% of nominal

Variation of Ambient Temperature

Using a temperature chamber, the transmit frequency was recorded at the extremes of the specified temperature range (-30 ° to +50° C) and at 10°C intervals.

A direct connect measurement was made between the EUT's antenna cable and a spectrum analyzer. The spectrum analyzer is equipped with a precision frequency reference that exceeds the stability requirement of the EUT. Measurements were made at the mid channel of each band to determine frequency stability. If the frequency variation is less than 100 ppm, the EUT will meet the requirement of 15.407(g), that the emissions are maintained within the band of operation.

NORTHWEST EMC		FREQUENCY STABILITY		XMIT 2010.07.29	
EUT:	RC12	Work Order:	INMC0575		
Serial Number:	R11	Date:	08/09/10		
Customer:	Intermec Technologies Corporation	Temperature:	20°C		
Attendees:	None	Humidity:	38%		
Project:	None	Barometric Pres.:	1019.3 mb		
Tested by:	Rod Peloquin	Power:	3.3 VDC Nominal	Job Site:	EV06 & EV09
TEST SPECIFICATIONS		Test Method			
FCC 15.407:2010		ANSI C63.10:2009			
COMMENTS					
Transmitting CW mode					
DEVIATIONS FROM TEST STANDARD					
No Deviations					
Configuration #	2	 Signature			

Low Channel, 5150 MHz - 5250 MHz Band

Frequency Stability with Variation of DC Voltage (Ambient Temperature = 20°C)

Voltage (VDC)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
3.8 (115%)	5180.000000	5180.000209	0.04	n/a
3.3 (100%)	5180.000000	5180.000223	0.04	n/a
2.8 (85%)	5180.000000	5180.000195	0.04	n/a

Frequency Stability with Variation of Ambient Temperature (Primary Supply = 3.3 VDC & 5.0 VDC)

Temp (°C)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
50	5180.000000	5179.999849	0.03	n/a
40	5180.000000	5180.000309	0.06	n/a
30	5180.000000	5180.000342	0.07	n/a
20	5180.000000	5179.999833	0.03	n/a
10	5180.000000	5179.999437	0.11	n/a
0	5180.000000	5180.000089	0.02	n/a
-10	5180.000000	5180.000634	0.12	n/a
-20	5180.000000	5180.000326	0.06	n/a
-30	5180.000000	5180.000444	0.09	n/a

High Channel, 5250 MHz - 5350 MHz Band

Frequency Stability with Variation of DC Voltage (Ambient Temperature = 20°C)

Voltage (VDC)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
3.8 (115%)	5320.000000	5320.000215	0.04	n/a
3.3 (100%)	5320.000000	5320.000221	0.04	n/a
2.8 (85%)	5320.000000	5320.000186	0.03	n/a

Frequency Stability with Variation of Ambient Temperature (Primary Supply = 3.3 VDC)

Temp (°C)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
50	5320.000000	5319.999845	0.03	n/a
40	5320.000000	5320.000308	0.06	n/a
30	5320.000000	5320.000350	0.07	n/a
20	5320.000000	5319.999800	0.04	n/a
10	5320.000000	5319.999446	0.10	n/a
0	5320.000000	5320.000096	0.02	n/a
-10	5320.000000	5320.000652	0.12	n/a
-20	5320.000000	5320.000321	0.06	n/a
-30	5320.000000	5320.000560	0.11	n/a

Low Channel, 5470 MHz - 5725 MHz Band

Frequency Stability with Variation of DC Voltage (Ambient Temperature = 20°C)

Voltage (VDC)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
3.8 (115%)	5500.000000	5500.000228	0.04	n/a
3.3 (100%)	5500.000000	5500.000219	0.04	n/a
2.8 (85%)	5500.000000	5500.000189	0.03	n/a

Frequency Stability with Variation of Ambient Temperature (Primary Supply = 3.3 VDC)

Temp (°C)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
50	5500.000000	5499.999845	0.03	n/a
40	5500.000000	5500.000317	0.06	n/a
30	5500.000000	5500.000360	0.07	n/a
20	5500.000000	5499.999766	0.04	n/a
10	5500.000000	5499.999420	0.11	n/a
0	5500.000000	5500.000064	0.01	n/a
-10	5500.000000	5500.000666	0.12	n/a
-20	5500.000000	5500.000318	0.06	n/a
-30	5500.000000	5500.000563	0.10	n/a

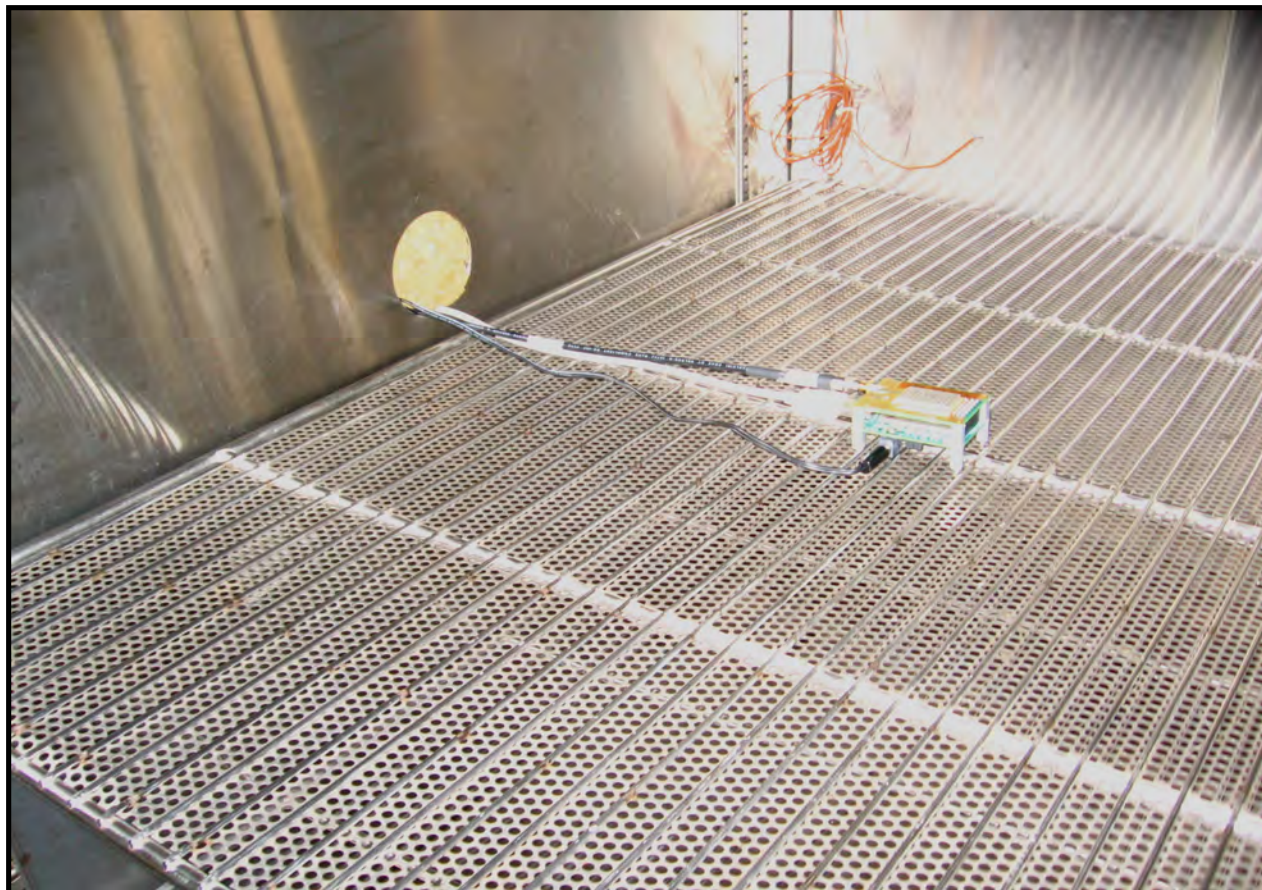
High Channel, 5470 MHz - 5725 MHz Band

Frequency Stability with Variation of DC Voltage (Ambient Temperature = 20°C)

Voltage (VDC)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
3.8 (115%)	5700.000000	5700.000257	0.05	n/a
3.3 (100%)	5700.000000	5700.000236	0.04	n/a
2.8 (85%)	5700.000000	5700.000197	0.03	n/a

Frequency Stability with Variation of Ambient Temperature (Primary Supply = 3.3 VDC)

Temp (°C)	Assigned Frequency (MHz)	Measured Frequency (MHz)	Tolerance (ppm)	Specification (ppm)
50	5700.000000	5699.999854	0.03	n/a
40	5700.000000	5700.000329	0.06	n/a
30	5700.000000	5700.000384	0.07	n/a
20	5700.000000	5699.999760	0.04	n/a
10	5700.000000	5699.999400	0.11	n/a
0	5700.000000	5700.000310	0.05	n/a
-10	5700.000000	5700.000699	0.12	n/a
-20	5700.000000	5700.000497	0.09	n/a
-30	5700.000000	5700.000584	0.10	n/a





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	E4440A	AFD	6/1/2009	24
EV06 Direct Connect Cable	ESM Cable Corp.	TT	ECA	NCR	0
26 GHz DC Block, SMA	Pasternack	PE8210	AME	10/19/2009	13
Attenuator 20 dB, SMA M/F 26GHz	S.M. Electronics	SA26B-20	AUY	7/21/2009	13
Attenuator, 6 dB, 'SMA'	N/A	93459 3330A-6	AUF	4/1/2010	13
Power Meter	Gigatronics	8651A	SPM	1/7/2010	13
Power Sensor	Gigatronics	80701A	SPL	1/7/2010	13
Signal Generator	Agilent	E8257D	TGX	12/10/2008	24

MEASUREMENT UNCERTAINTY

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

ANSI C63.10 was followed. The transmit frequency was set to the required channels in each band. The transmit power was set to its default maximum. A direct connection was made between the RF output of the EUT and a spectrum analyzer. Attenuation and a DC block were used. The reference level offset on the spectrum analyzer was adjusted to compensate for cable loss and the external attenuation used between the RF output and the spectrum analyzer input. The amplitude accuracy of the spectrum analyzer was further enhanced by calibrating the setup using the power meter and synthesized signal generator.

Prior to measuring peak transmit power; the emission bandwidth (B) and the transmission pulse duration (T) were measured. Both are required to determine the method of measuring Peak Transmit Power. The method of measuring the emission bandwidth and the associated data are found elsewhere in this test report. The transmission pulse duration (T) was measured using a zero span on the spectrum analyzer to see the pulses in the time domain.

Method #3 was used because the analyzer sweep time was greater than T for the operating mode which has the shortest transmission pulse duration and the Emission Bandwidth was greater than the largest RBW on the analyzer.

Sweep gating triggered by the RF burst was used on the analyzer to ensure power integration was only done during the pulse duration.

The spectrum analyzer settings were as follows:

- The span was set to encompass entire emission bandwidth (B), centered on the transmit channel.
- The RBW = 1 MHz, VBW = 3 MHz
- Sample detector mode because the bin width (span / number of spectral points) < 0.5 RBW.
- Power was integrated across "B", by using the channel power function of the analyzer.

EMC

PEAK TRANSMIT POWER

EUT: RC12	Work Order: INMC0575
Serial Number: R11	Date: 08/03/10
Customer: Intermec Technologies Corporation	Temperature: 22°C
Attendees: None	Humidity: 38%
Project: None	Barometric Pres.: 1013.5 mb
Tested by: Rod Peloquin	Power: 5VDC
	Job Site: EV06

TEST SPECIFICATIONS	Test Method
FCC 15.407:2010	ANSI C63.10:2009

COMMENTS
None

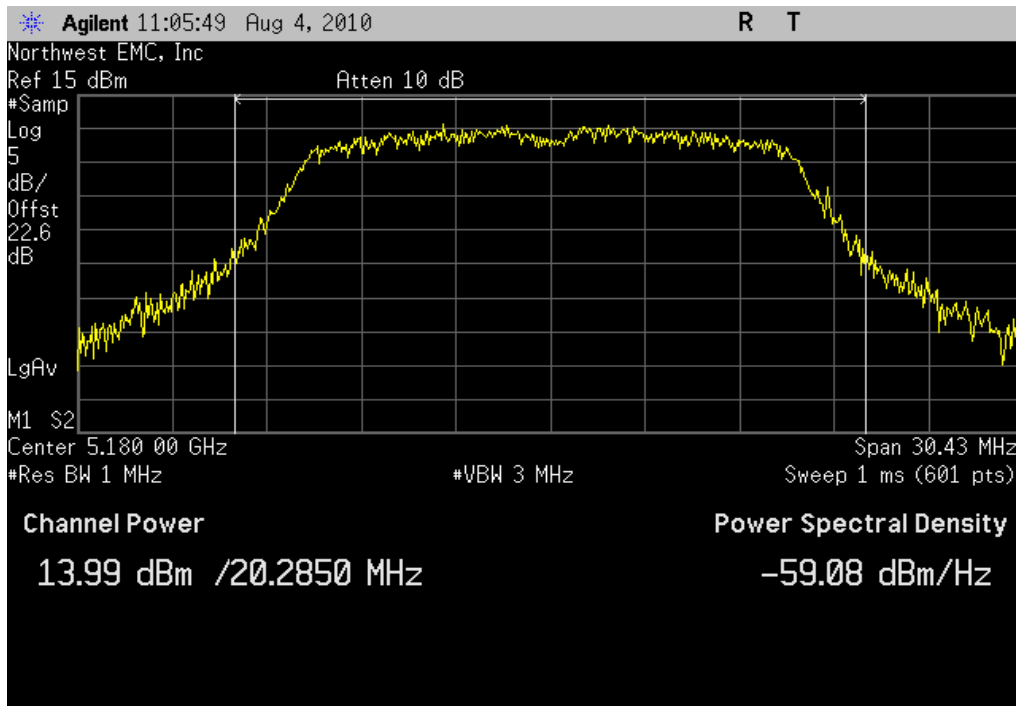
DEVIATIONS FROM TEST STANDARD
No Deviations

Configuration #	2	<i>Rod P. P. P.</i> Signature
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		Value	Limit	Results
802.11(a) 6 Mbps	5150 - 5250 MHz Band			
	Channel 36, Low Channel	14.0 dBm	17 dBm	Pass
	Channel 48, High Channel	13.5 dBm	17 dBm	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	13.7 dBm	24 dBm	Pass
	Channel 64, High Channel	13.5 dBm	24 dBm	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	12.9 dBm	24 dBm	Pass
	Channel 116, Mid Channel	12.7 dBm	24 dBm	Pass
	Channel 140, High Channel	12.6 dBm	24 dBm	Pass
802.11(a) 36 Mbps	5150 - 5250 MHz Band			
	Channel 36, Low Channel	13.8 dBm	17 dBm	Pass
	Channel 48, High Channel	13.6 dBm	17 dBm	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	13.9 dBm	24 dBm	Pass
	Channel 64, High Channel	13.6 dBm	24 dBm	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	12.9 dBm	24 dBm	Pass
	Channel 116, Mid Channel	12.9 dBm	24 dBm	Pass
	Channel 140, High Channel	12.5 dBm	24 dBm	Pass
802.11(a) 54 Mbps	5150 - 5250 MHz Band			
	Channel 36, Low Channel	13.3 dBm	17 dBm	Pass
	Channel 48, High Channel	13.2 dBm	17 dBm	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	13.2 dBm	24 dBm	Pass
	Channel 64, High Channel	13.1 dBm	24 dBm	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	12.3 dBm	24 dBm	Pass
	Channel 116, Mid Channel	12.1 dBm	24 dBm	Pass
	Channel 140, High Channel	12.1 dBm	24 dBm	Pass
802.11(n) MCS0	5150 - 5250 MHz Band			
	Channel 36, Low Channel	13.8 dBm	17 dBm	Pass
	Channel 48, High Channel	13.6 dBm	17 dBm	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	13.7 dBm	24 dBm	Pass
	Channel 64, High Channel	13.3 dBm	24 dBm	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	12.8 dBm	24 dBm	Pass
	Channel 116, Mid Channel	12.7 dBm	24 dBm	Pass
	Channel 140, High Channel	12.6 dBm	24 dBm	Pass
802.11(n) MCS7	5150 - 5250 MHz Band			
	Channel 36, Low Channel	11.8 dBm	17 dBm	Pass
	Channel 48, High Channel	11.7 dBm	17 dBm	Pass
	5250 - 5350 MHz Band			
	Channel 52, Low Channel	12.1 dBm	24 dBm	Pass
	Channel 64, High Channel	11.8 dBm	24 dBm	Pass
	5470 - 5725 MHz Band			
	Channel 100, Low Channel	10.7 dBm	24 dBm	Pass
	Channel 116, Mid Channel	10.7 dBm	24 dBm	Pass
	Channel 140, High Channel	10.8 dBm	24 dBm	Pass

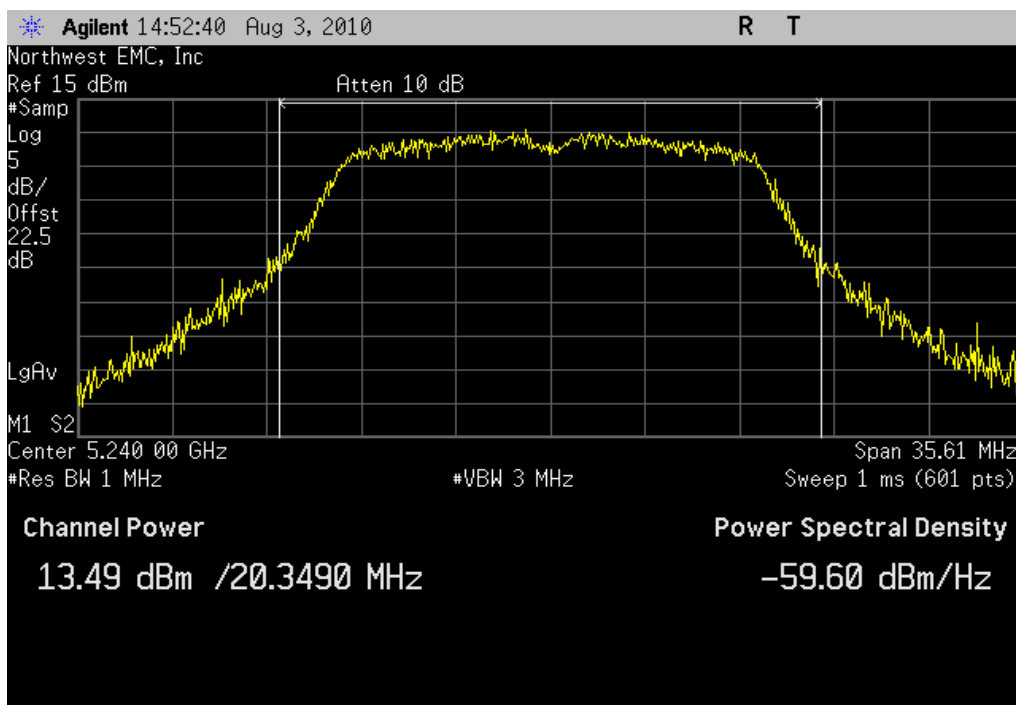
802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

Result: Pass **Value:** 14.0 dBm **Limit:** 17 dBm

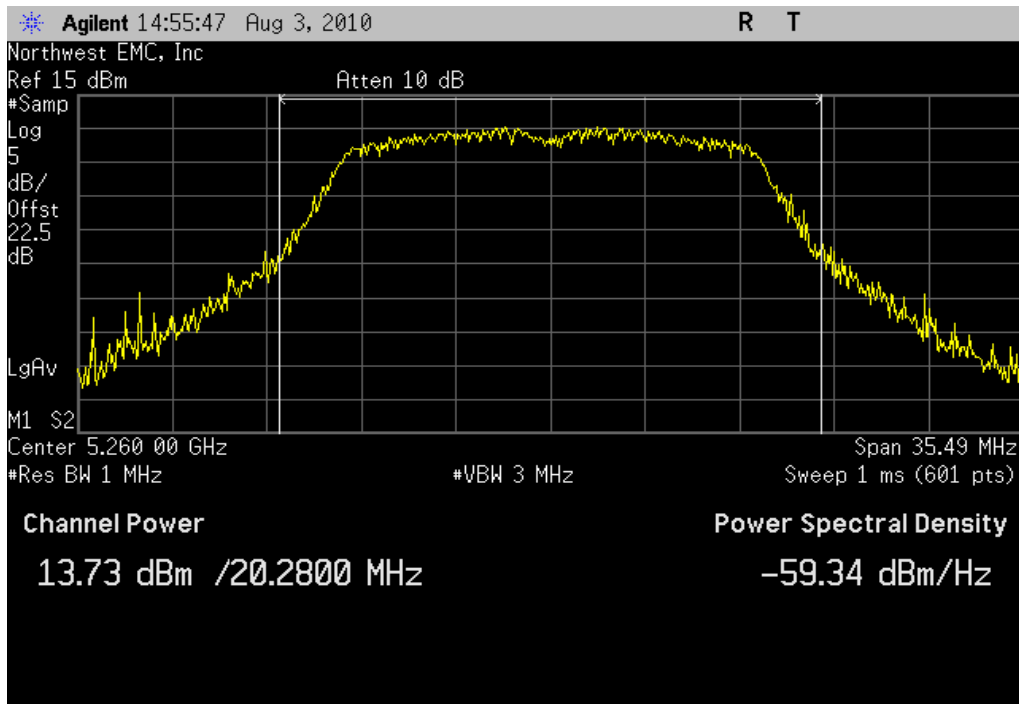


802.11(a) 6 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel

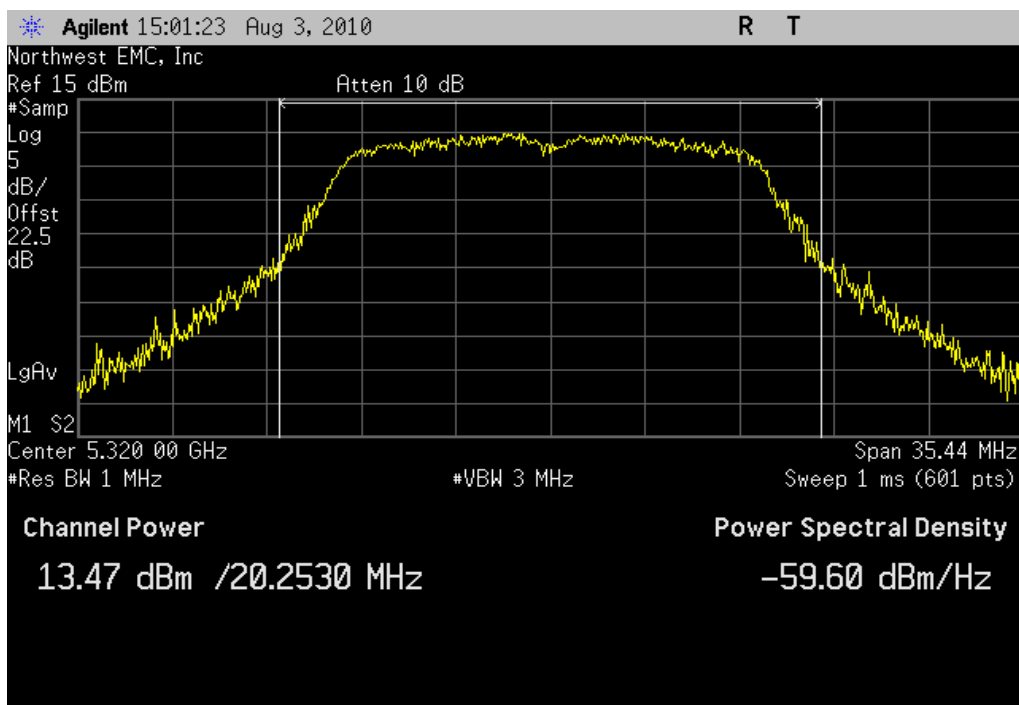
Result: Pass **Value:** 13.5 dBm **Limit:** 17 dBm



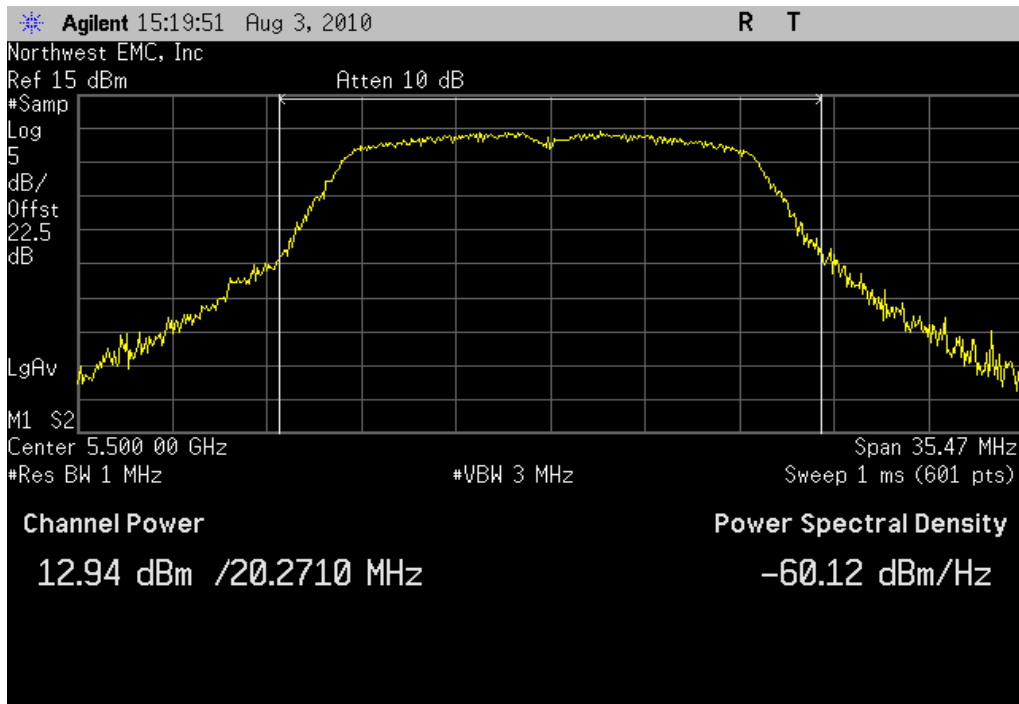
802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel

Result: Pass**Value:** 13.7 dBm**Limit:** 24 dBm

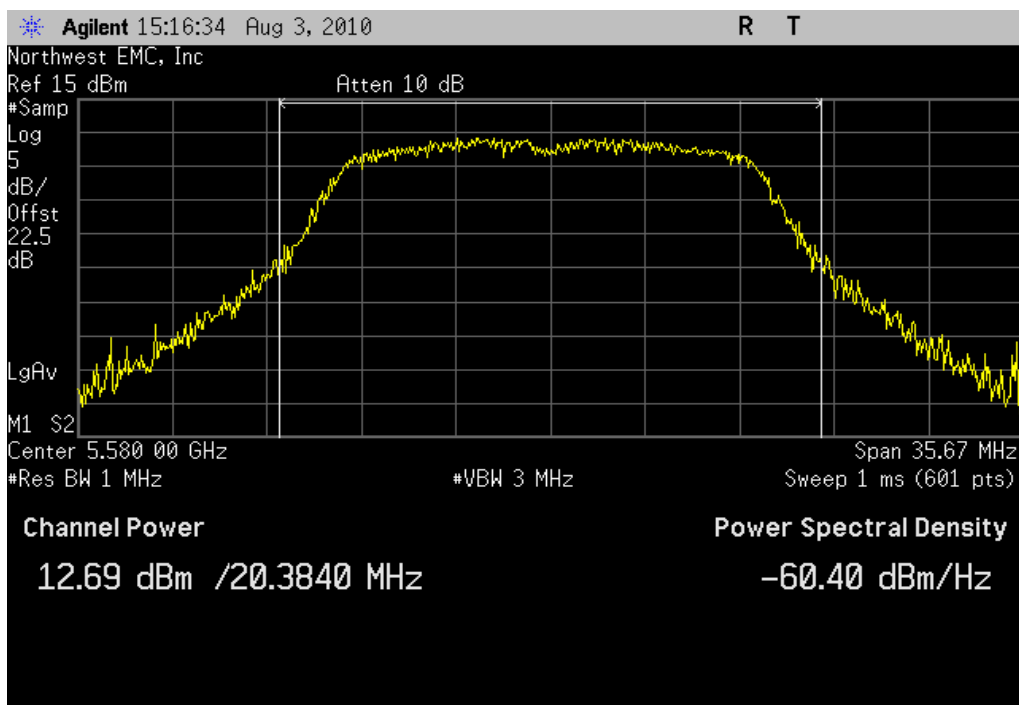
802.11(a) 6 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel

Result: Pass**Value:** 13.5 dBm**Limit:** 24 dBm

802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel

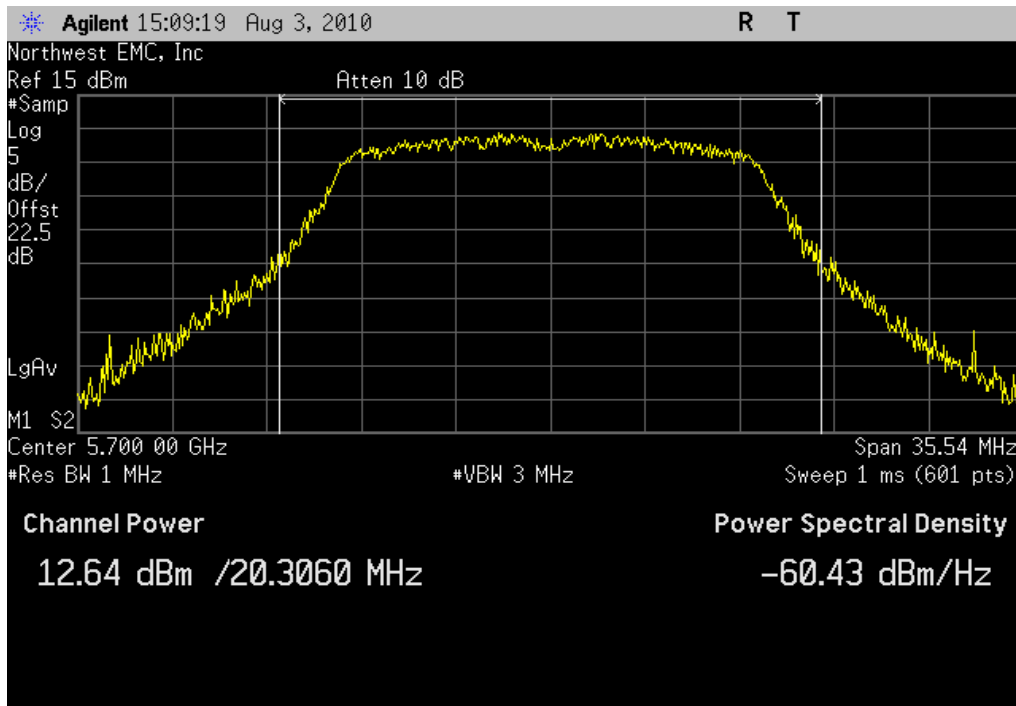
Result: Pass**Value:** 12.9 dBm**Limit:** 24 dBm

802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel

Result: Pass**Value:** 12.7 dBm**Limit:** 24 dBm

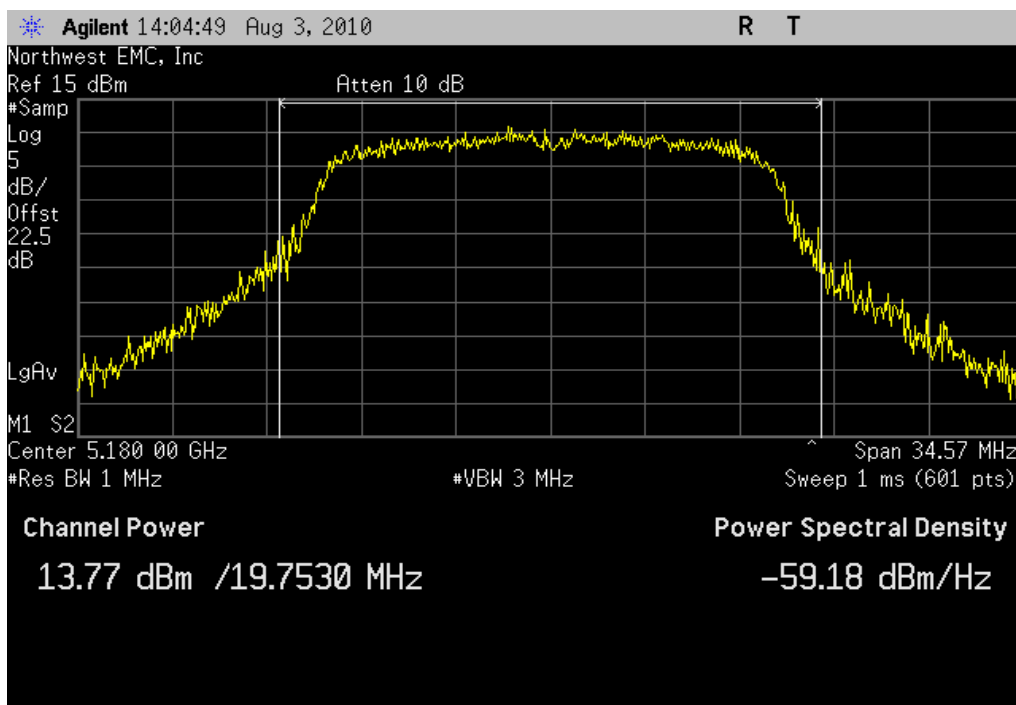
802.11(a) 6 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

Result: Pass **Value:** 12.6 dBm **Limit:** 24 dBm

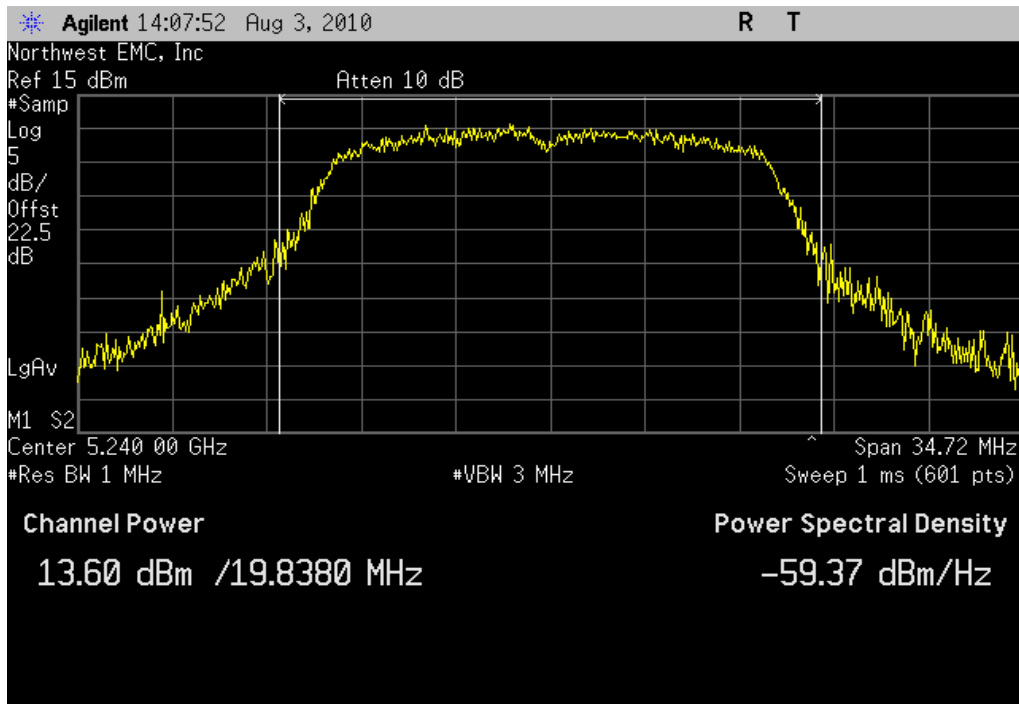


802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

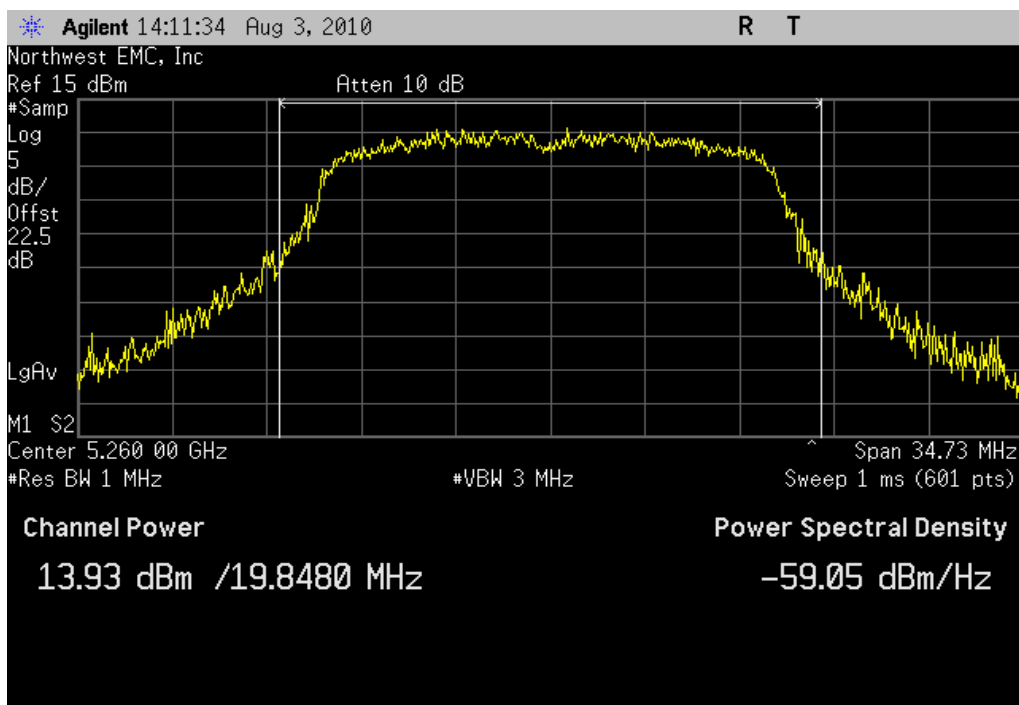
Result: Pass **Value:** 13.8 dBm **Limit:** 17 dBm



802.11(a) 36 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel

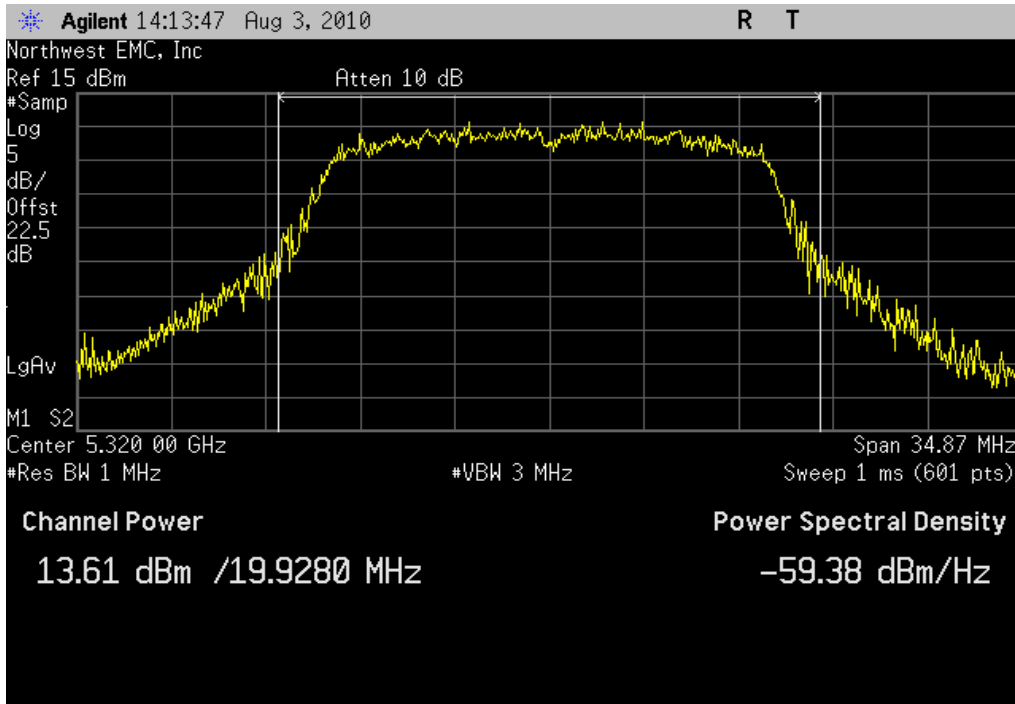
Result: Pass**Value:** 13.6 dBm**Limit:** 17 dBm

802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel

Result: Pass**Value:** 13.9 dBm**Limit:** 24 dBm

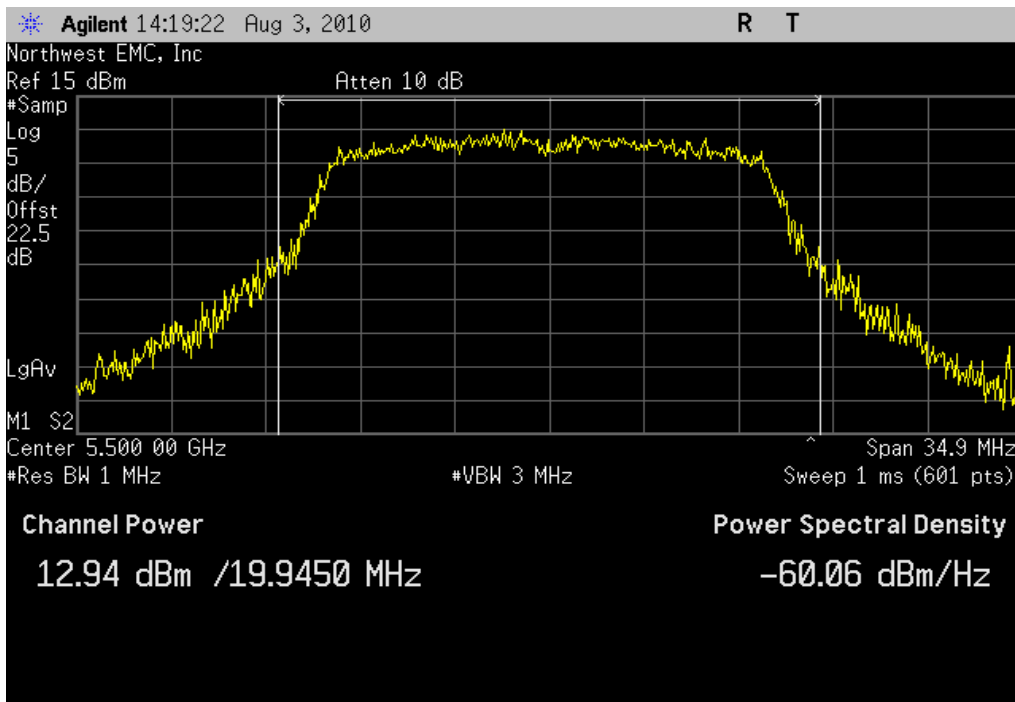
802.11(a) 36 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel

Result: Pass **Value:** 13.6 dBm **Limit:** 24 dBm

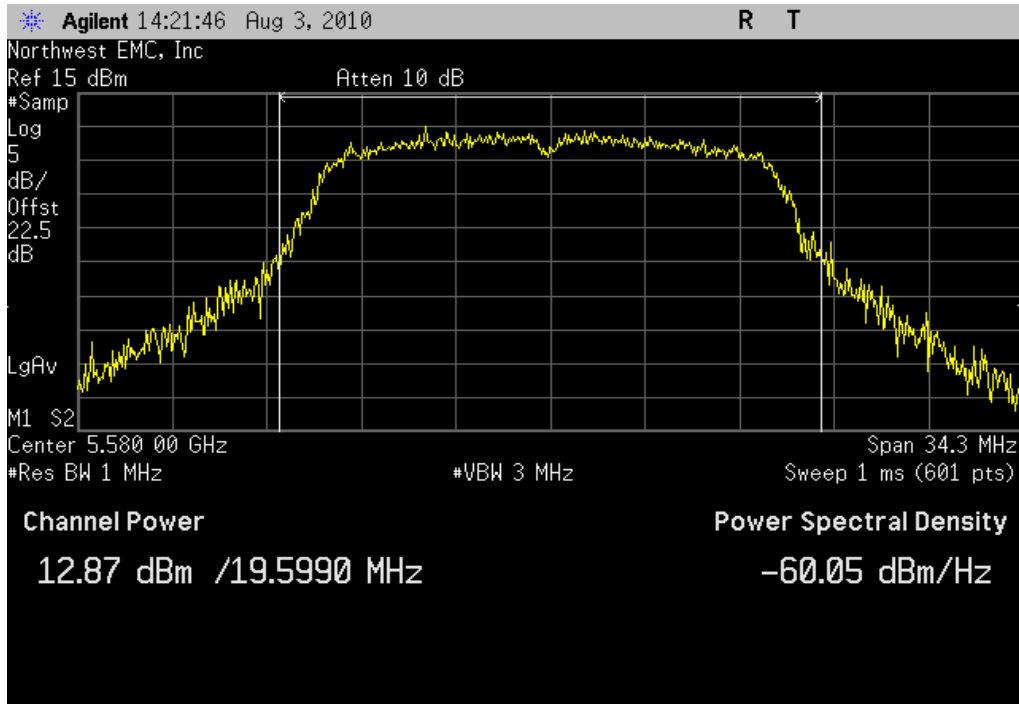


802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel

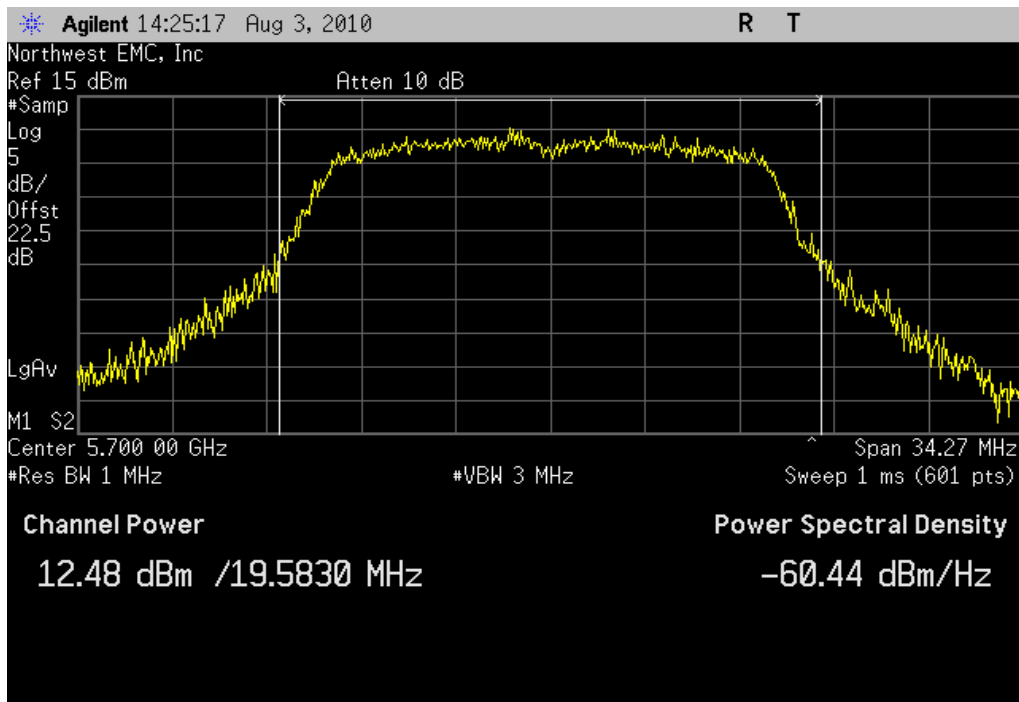
Result: Pass **Value:** 12.9 dBm **Limit:** 24 dBm



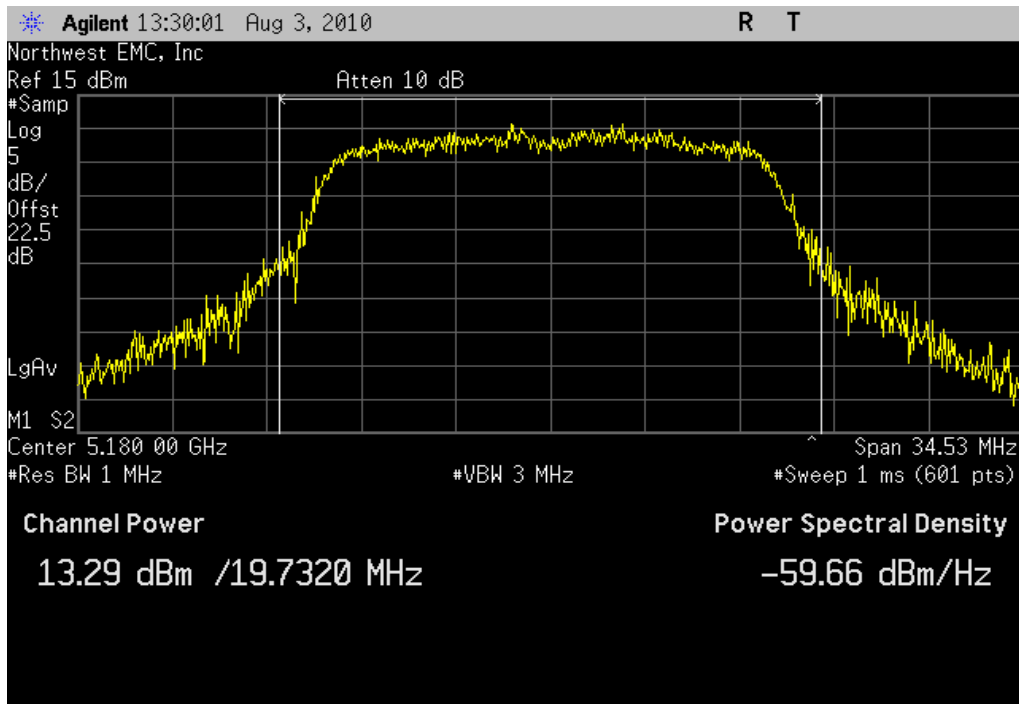
802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel

Result: Pass**Value:** 12.9 dBm**Limit:** 24 dBm

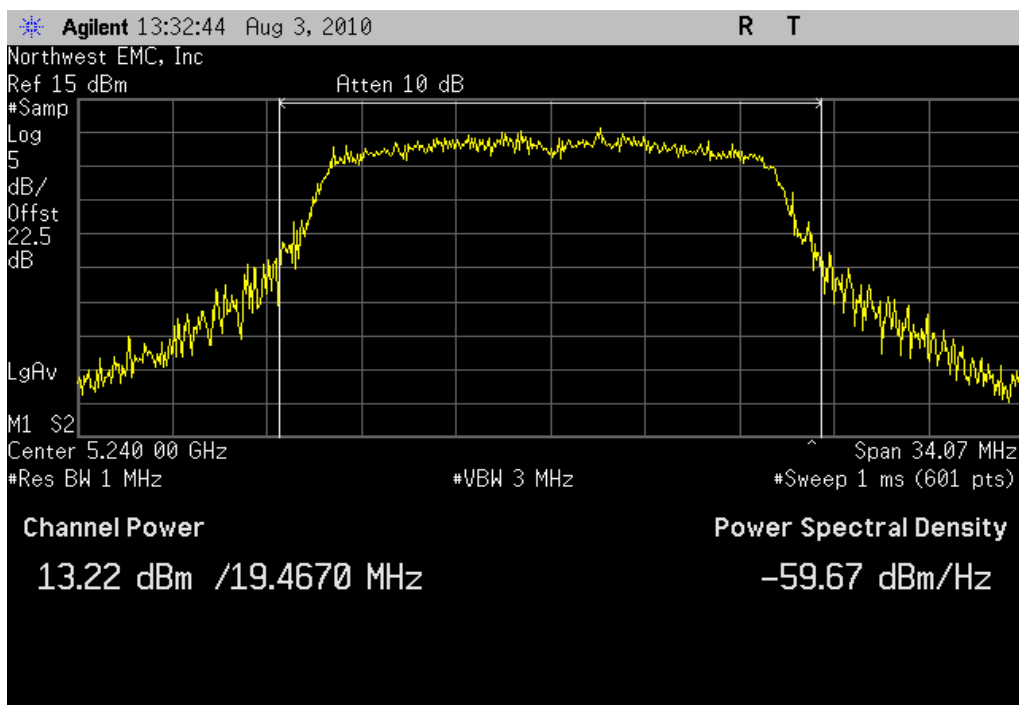
802.11(a) 36 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

Result: Pass**Value:** 12.5 dBm**Limit:** 24 dBm

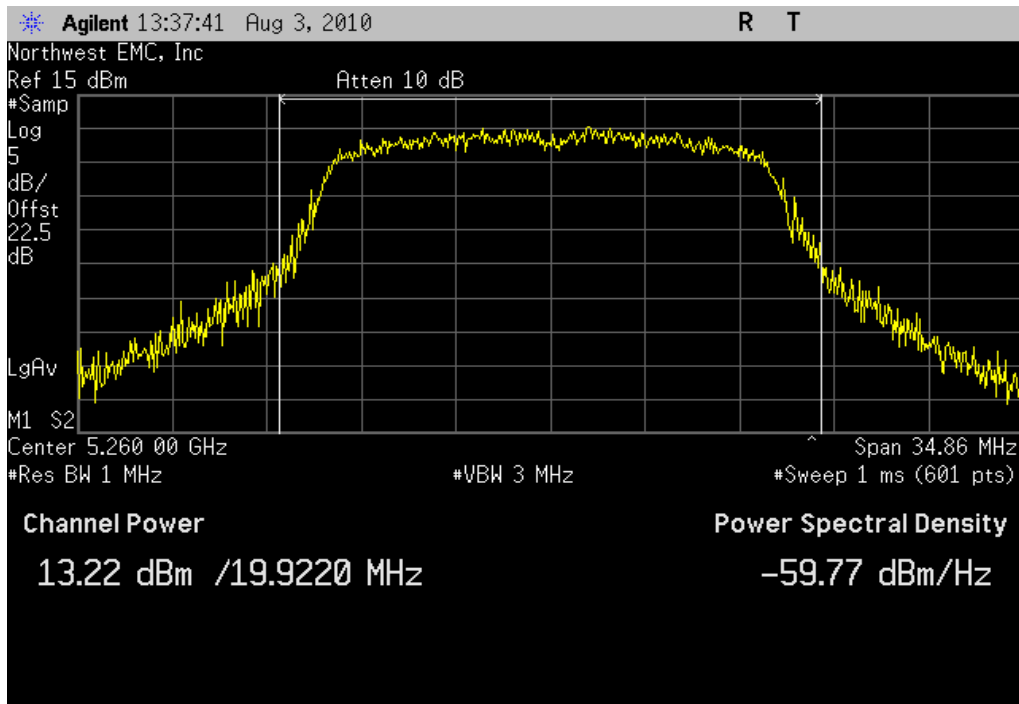
802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 36, Low Channel

Result: Pass**Value:** 13.3 dBm**Limit:** 17 dBm

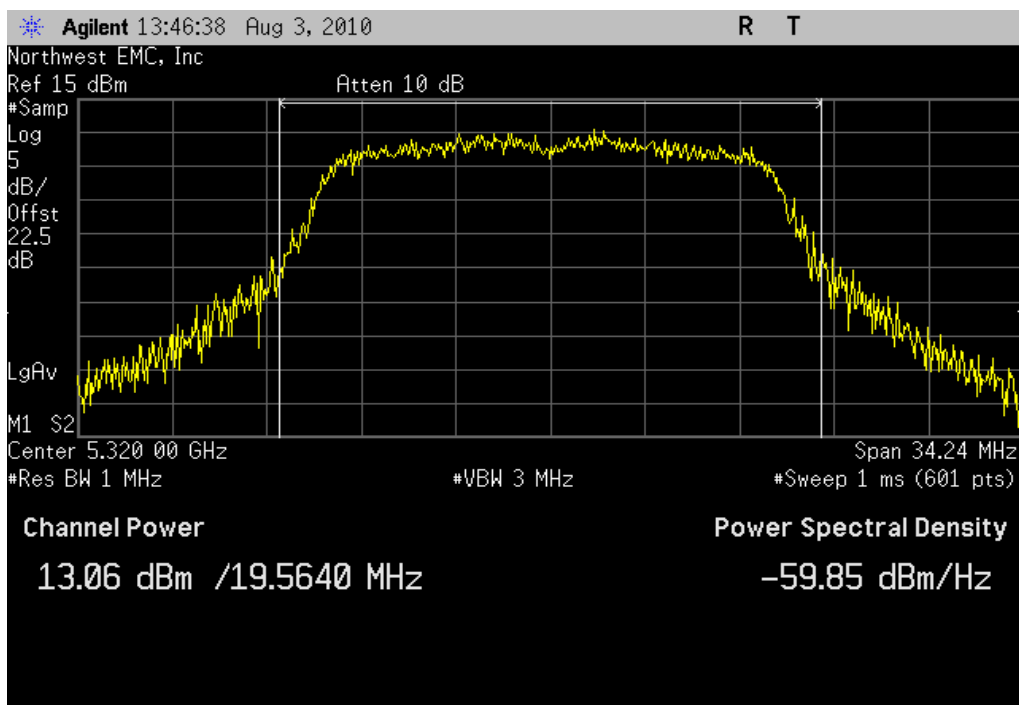
802.11(a) 54 Mbps, 5150 - 5250 MHz Band, Channel 48, High Channel

Result: Pass**Value:** 13.2 dBm**Limit:** 17 dBm

802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 52, Low Channel

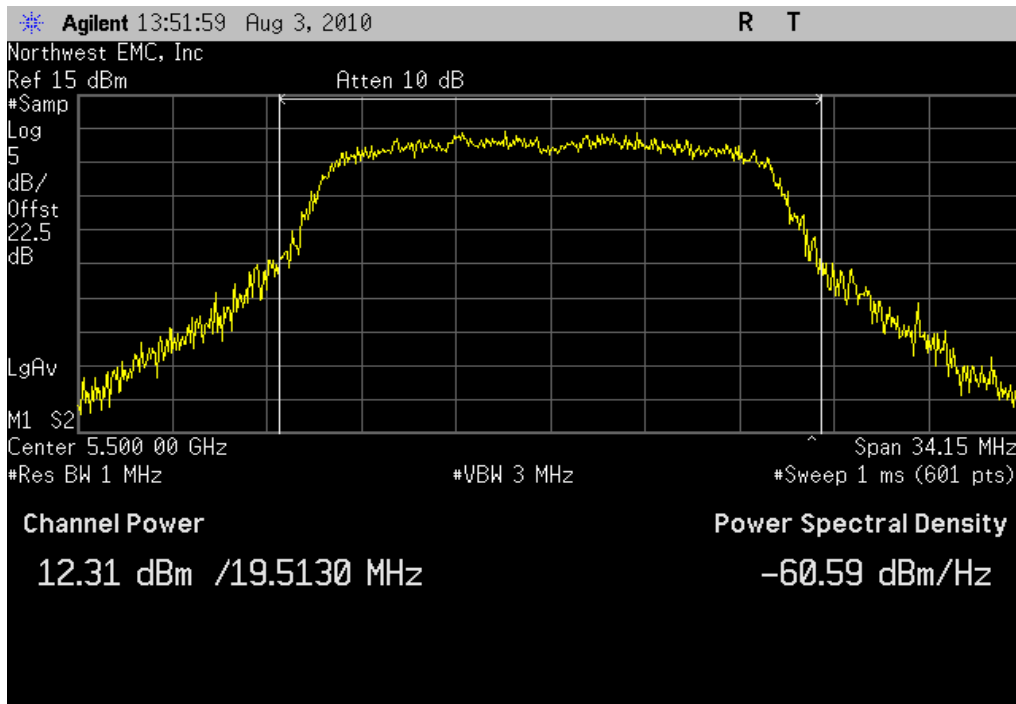
Result: Pass**Value:** 13.2 dBm**Limit:** 24 dBm

802.11(a) 54 Mbps, 5250 - 5350 MHz Band, Channel 64, High Channel

Result: Pass**Value:** 13.1 dBm**Limit:** 24 dBm

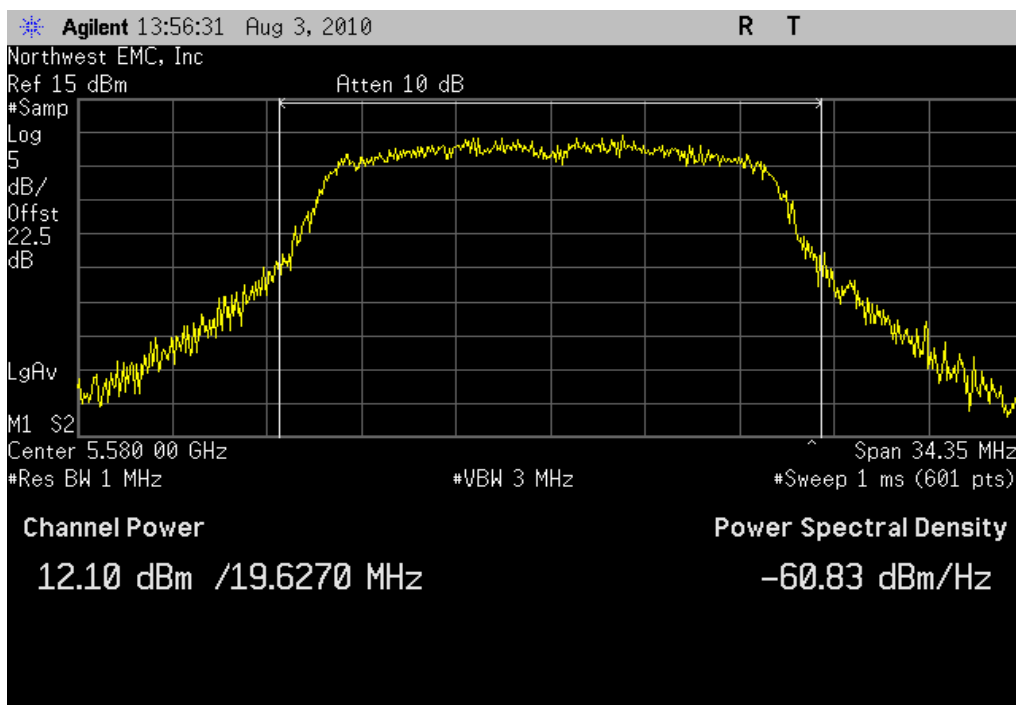
802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 100, Low Channel

Result: Pass **Value:** 12.3 dBm **Limit:** 24 dBm

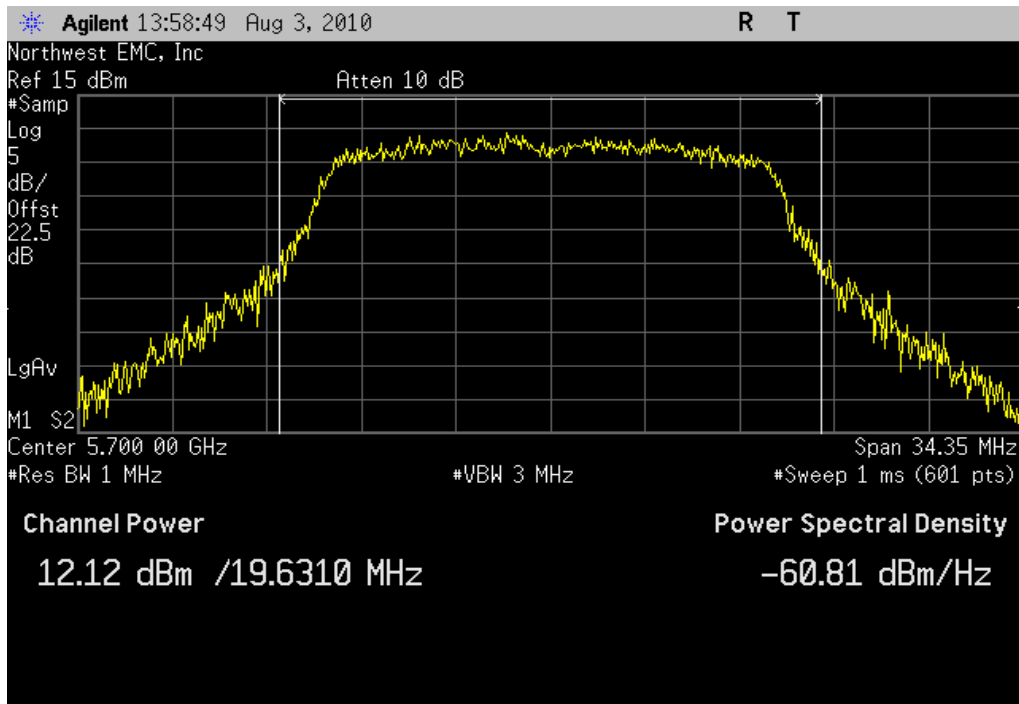


802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 116, Mid Channel

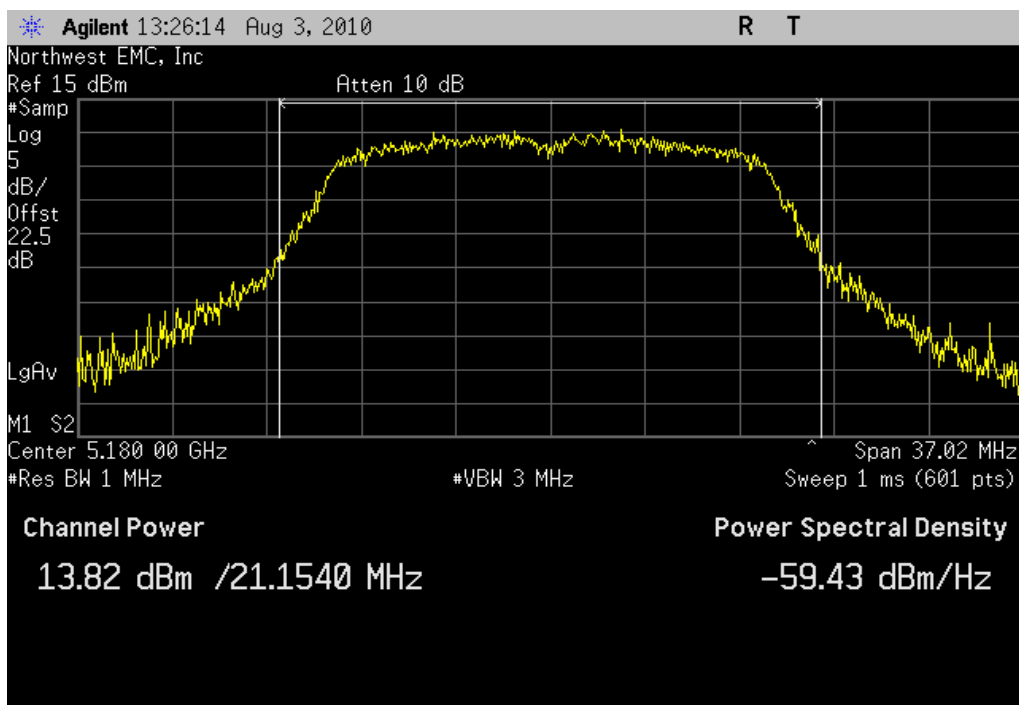
Result: Pass **Value:** 12.1 dBm **Limit:** 24 dBm



802.11(a) 54 Mbps, 5470 - 5725 MHz Band, Channel 140, High Channel

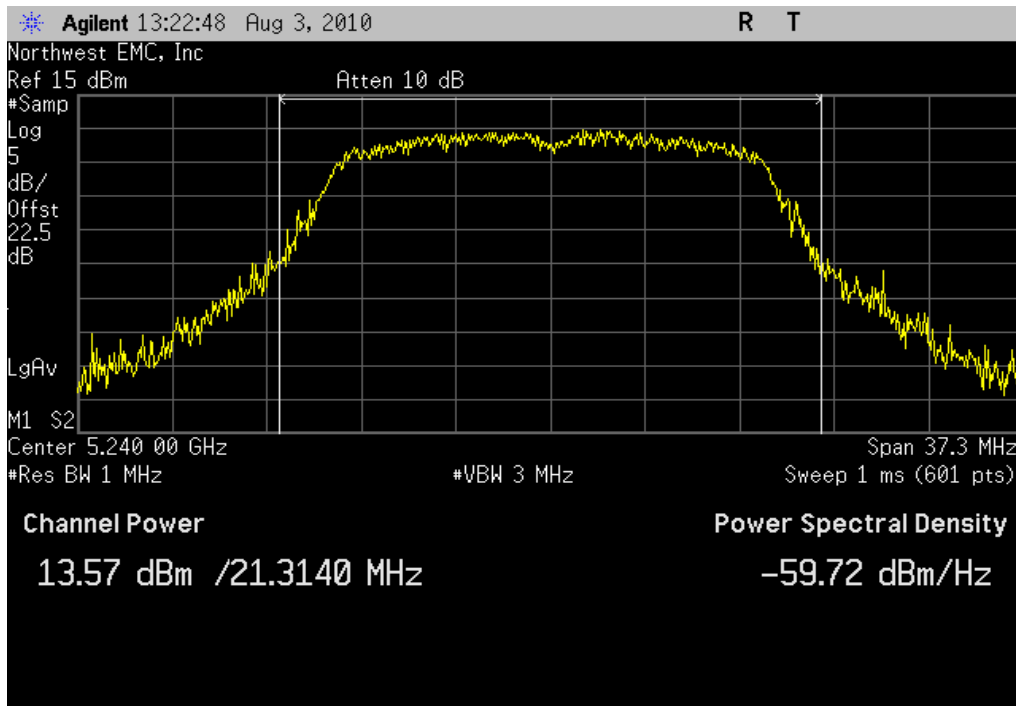
Result: Pass**Value:** 12.1 dBm**Limit:** 24 dBm

802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 36, Low Channel

Result: Pass**Value:** 13.8 dBm**Limit:** 17 dBm

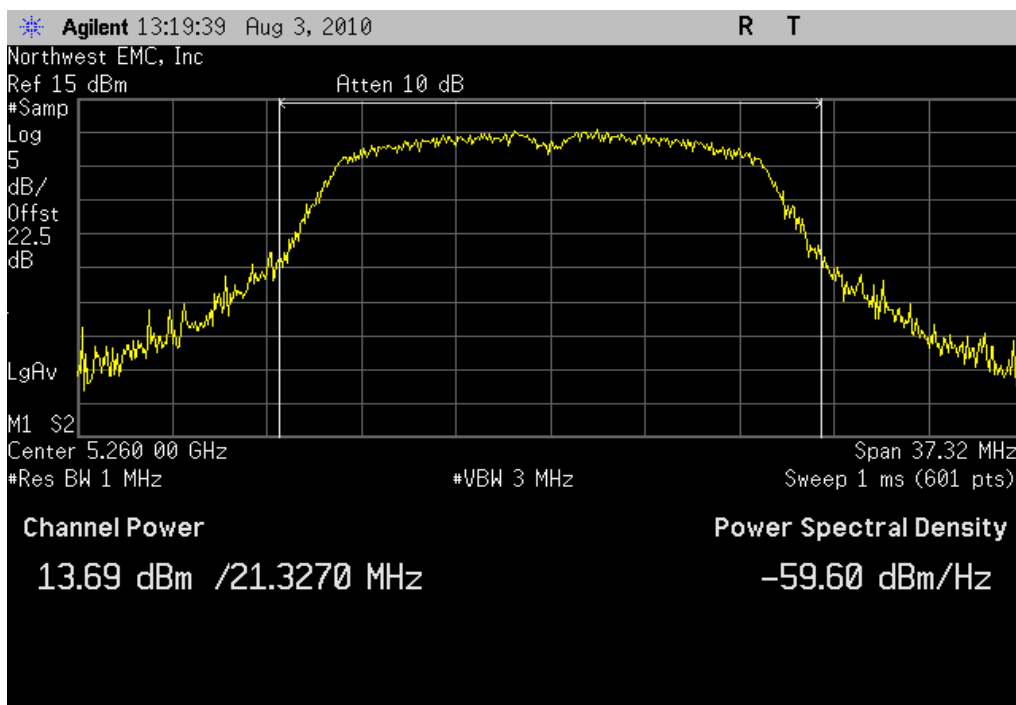
802.11(n) MCS0, 5150 - 5250 MHz Band, Channel 48, High Channel

Result: Pass **Value:** 13.6 dBm **Limit:** 17 dBm

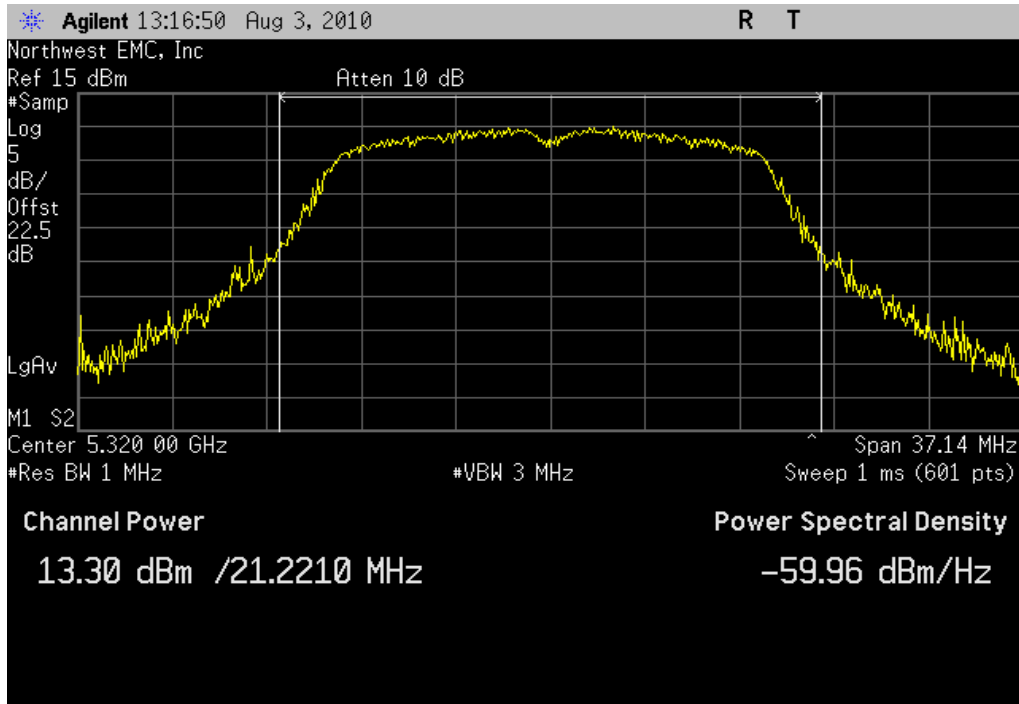


802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 52, Low Channel

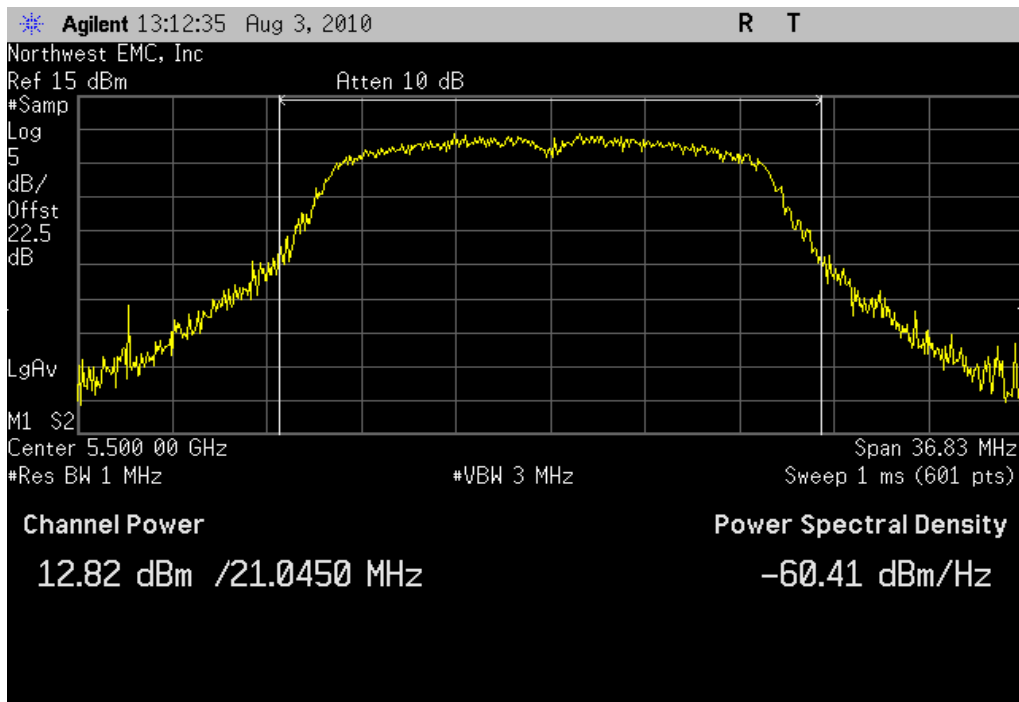
Result: Pass **Value:** 13.7 dBm **Limit:** 24 dBm



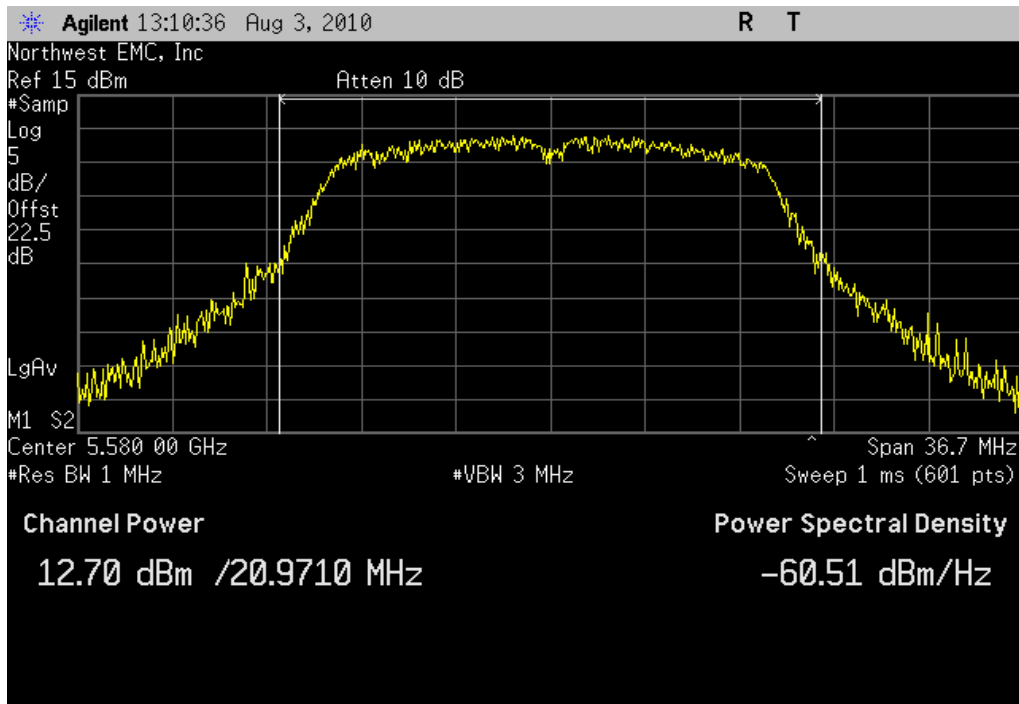
802.11(n) MCS0, 5250 - 5350 MHz Band, Channel 64, High Channel

Result: Pass**Value:** 13.3 dBm**Limit:** 24 dBm

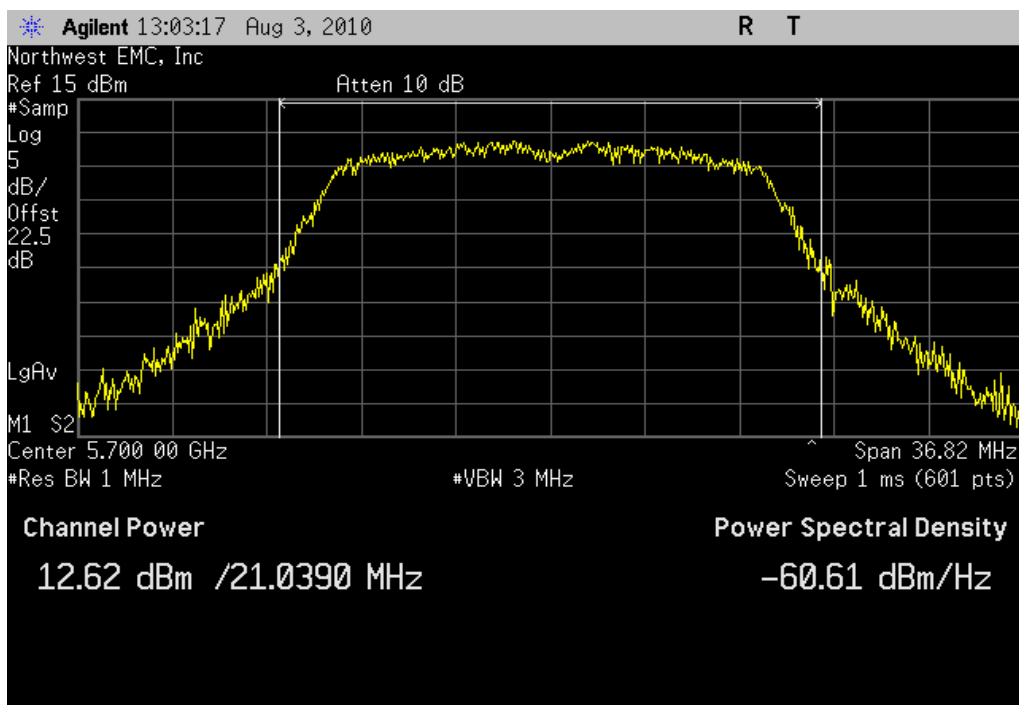
802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 100, Low Channel

Result: Pass**Value:** 12.8 dBm**Limit:** 24 dBm

802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 116, Mid Channel

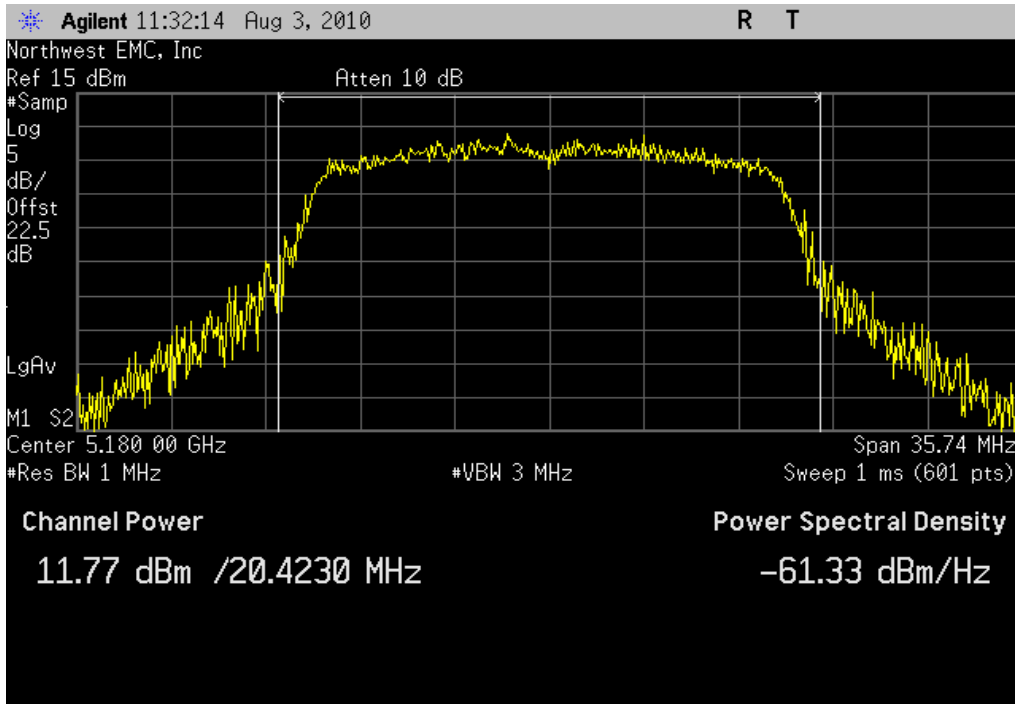
Result: Pass**Value:** 12.7 dBm**Limit:** 24 dBm

802.11(n) MCS0, 5470 - 5725 MHz Band, Channel 140, High Channel

Result: Pass**Value:** 12.6 dBm**Limit:** 24 dBm

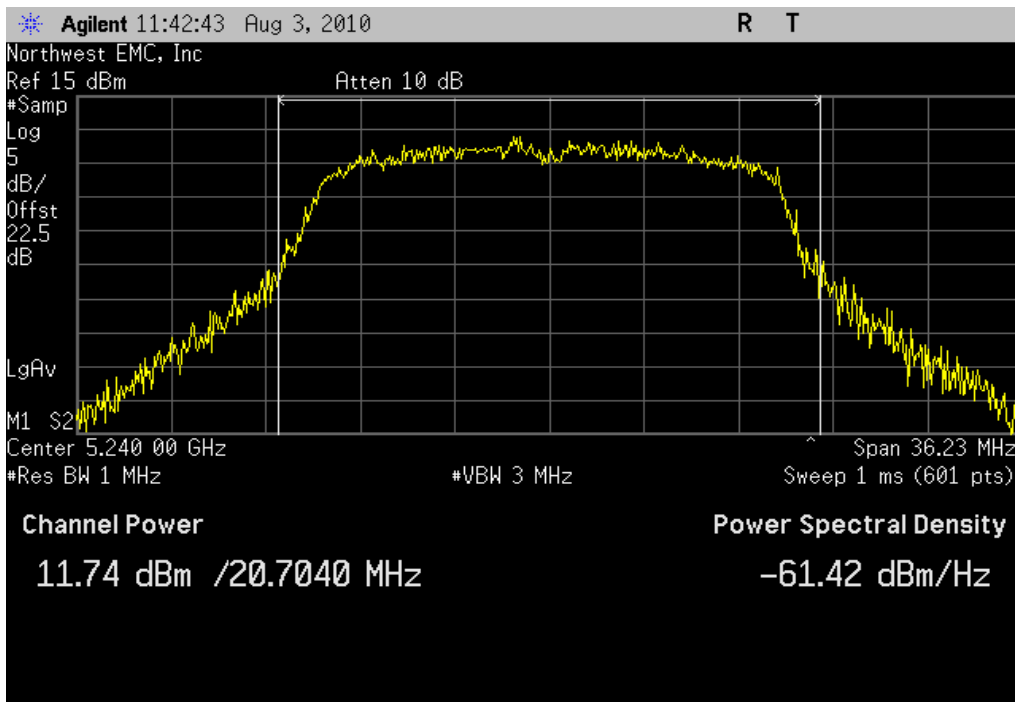
802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 36, Low Channel

Result: Pass **Value:** 11.8 dBm **Limit:** 17 dBm



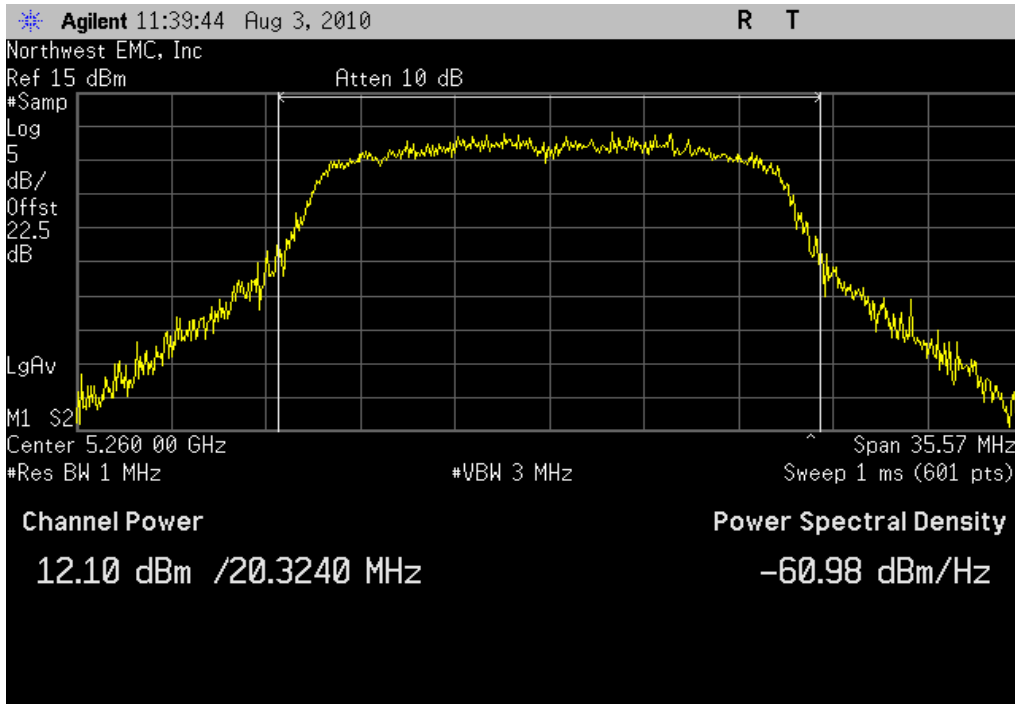
802.11(n) MCS7, 5150 - 5250 MHz Band, Channel 48, High Channel

Result: Pass **Value:** 11.7 dBm **Limit:** 17 dBm



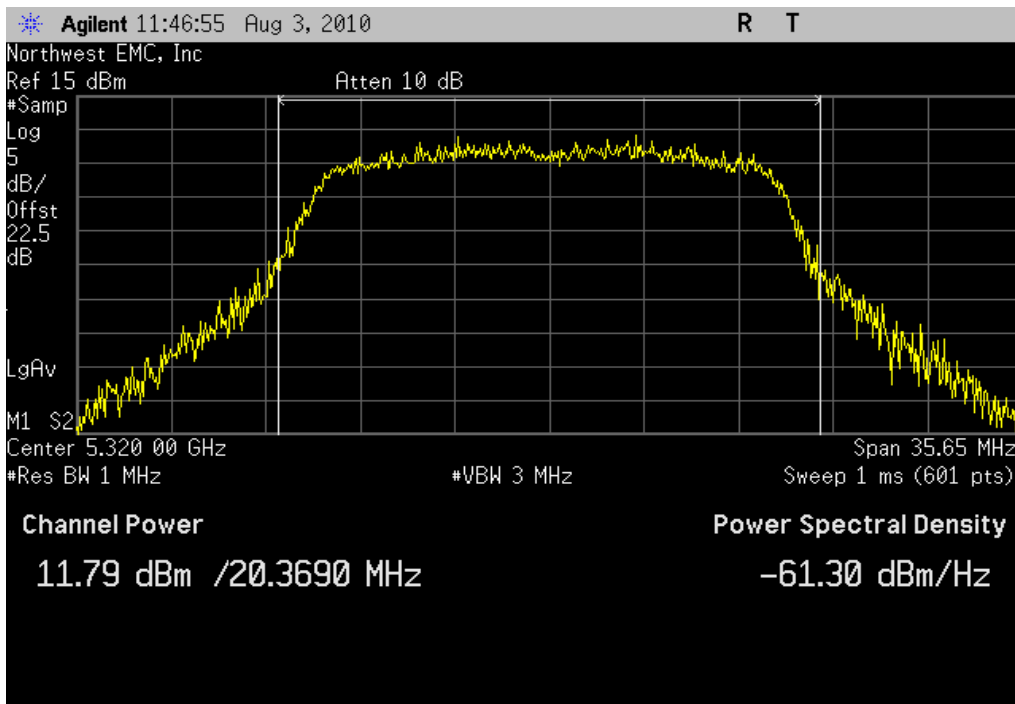
802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 52, Low Channel

Result: Pass **Value:** 12.1 dBm **Limit:** 24 dBm



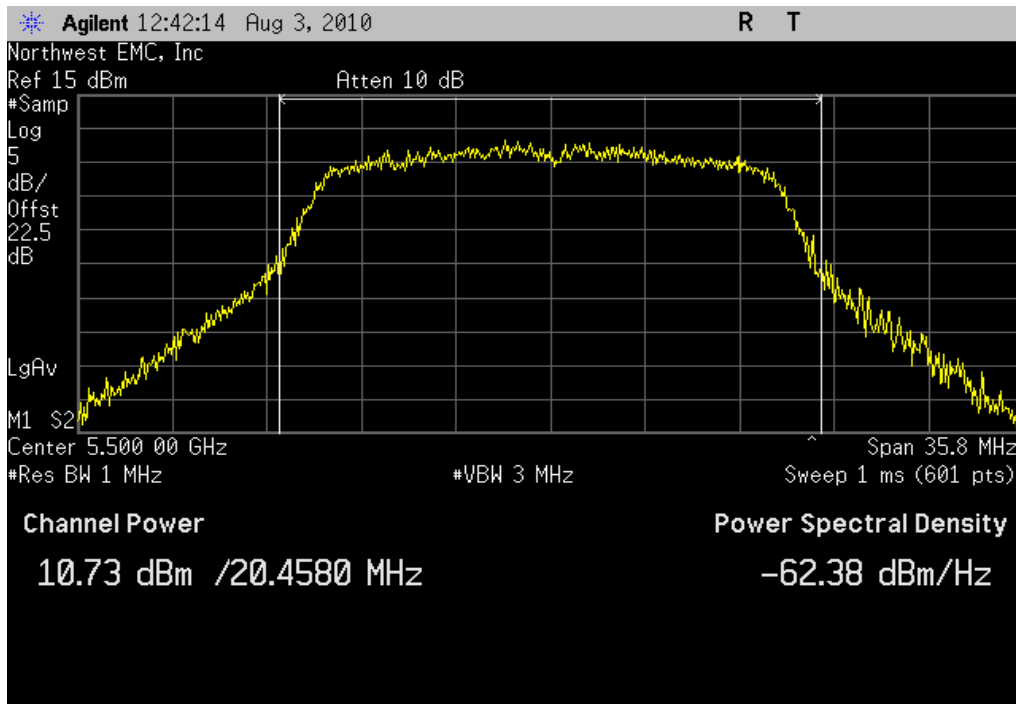
802.11(n) MCS7, 5250 - 5350 MHz Band, Channel 64, High Channel

Result: Pass **Value:** 11.8 dBm **Limit:** 24 dBm



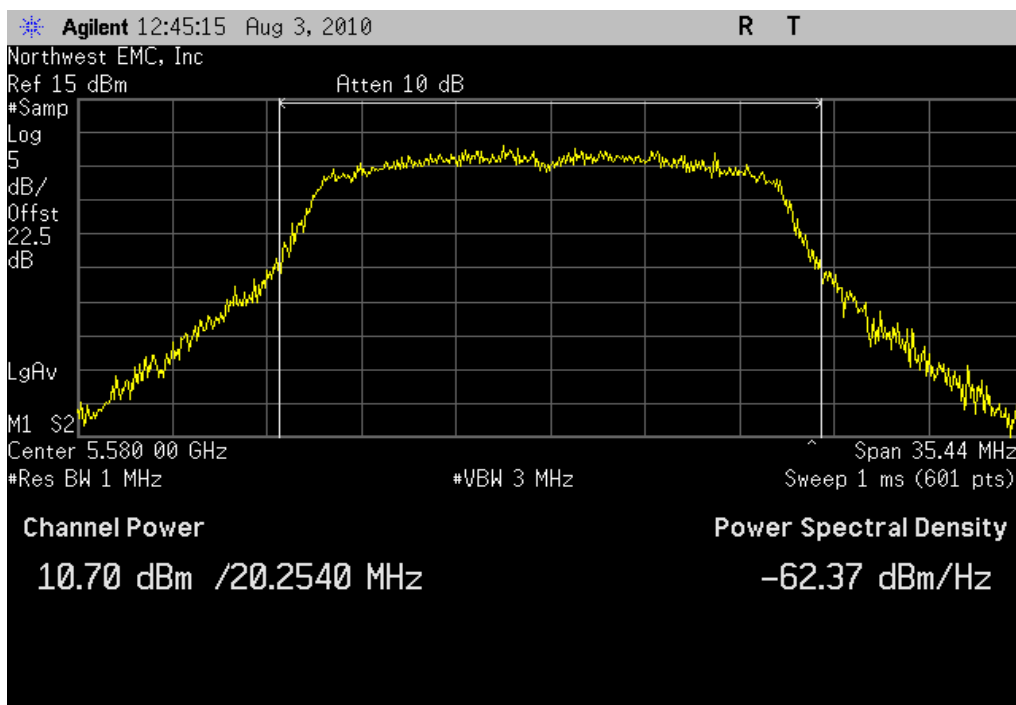
802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 100, Low Channel

Result: Pass **Value:** 10.7 dBm **Limit:** 24 dBm



802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 116, Mid Channel

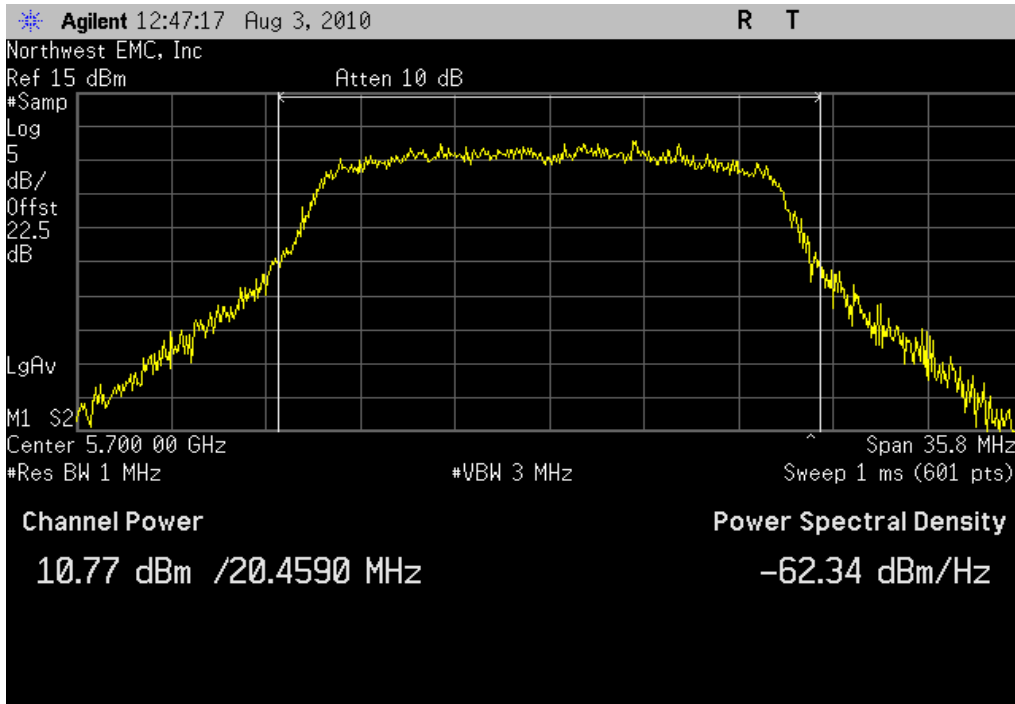
Result: Pass **Value:** 10.7 dBm **Limit:** 24 dBm

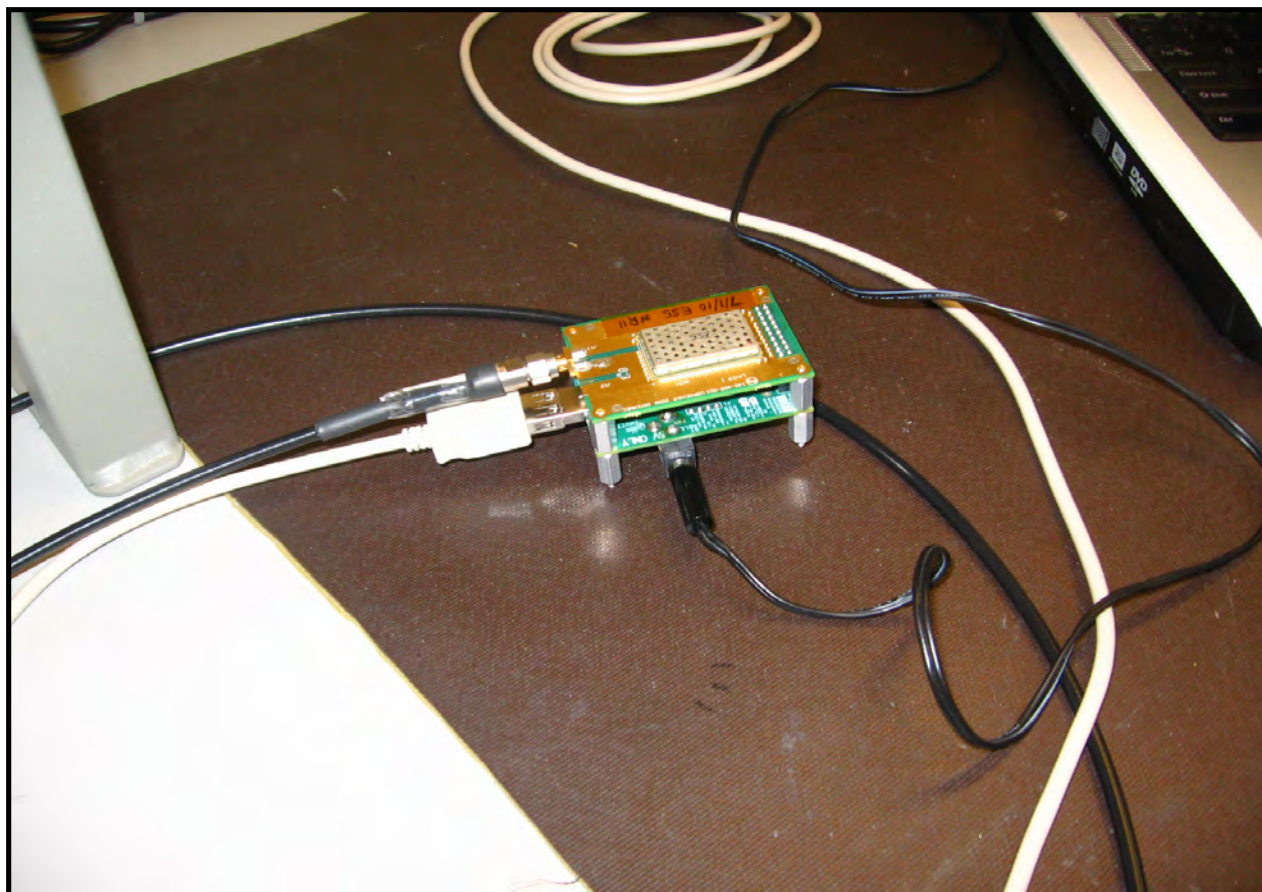
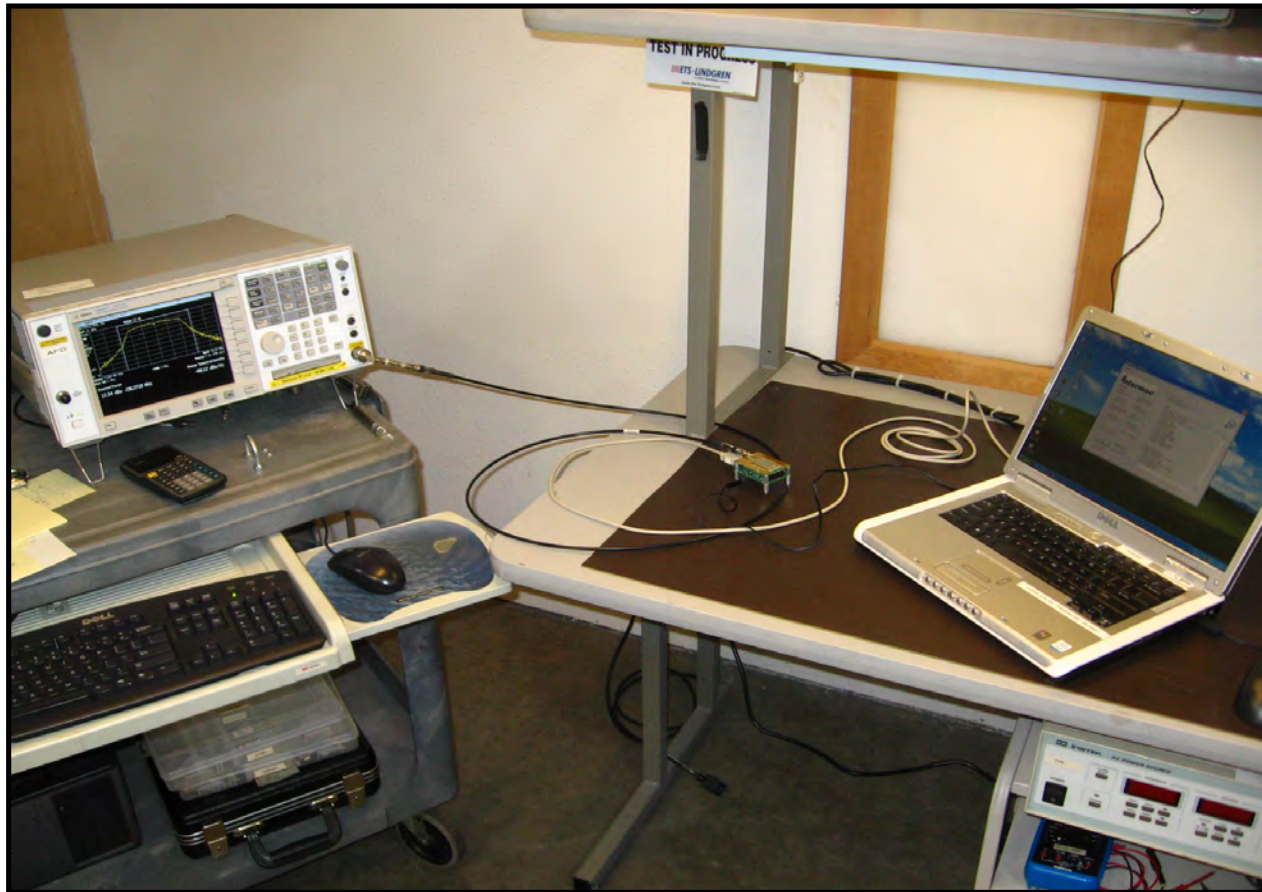


PEAK TRANSMIT POWER

802.11(n) MCS7, 5470 - 5725 MHz Band, Channel 140, High Channel

Result: Pass **Value:** 10.8 dBm **Limit:** 24 dBm





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

Continuous Tx. 802.11
Continuous Tx. 802.11a, 6Mbps
Continuous Tx. 802.11a
Continuous Tx. 802.11 5GHz

MODE USED FOR FINAL DATA

Continuous Tx. 802.11

POWER SETTINGS INVESTIGATED

5VDC

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	40 GHz
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SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4446A	AAQ	1/6/2010	12
Int. Analyzer	Electro Metrics	EMC-10	AAZ	NCR	12
High Pass Filter	Micro-Tronics	HPM50112	HGA	10/1/2009	13
5.725-5.875 Notch Filter	Micro-Tronics	BRC50705	HGJ	7/31/2009	13
5.47-5.725 Notch Filter	Micro-Tronics	BRC50704	HGI	10/1/2009	13
5.25 GHz Notch Filter	K&L Microwave	8N50-5250/X200-0/0	HFK	4/2/2010	13
OC Cable	ESM Cable Corp.	KMKM-72	OCV	11/3/2009	13
Cable	ESM Cable Corp.	KMKM-72	EVY	11/3/2009	13
EV12 Cables	N/A	Standard Gain Horn Cables	EVU	7/14/2010	13
EV12 Cables	N/A	Double Ridge Horn Cables	EVT	10/23/2009	13
EV12 Cables	N/A	Bilog Cables	EVS	7/14/2010	13
Pre-Amplifier	Miteq	JSW45-26004000-40-5P	AVR	6/22/2010	13
Pre-Amplifier	Miteq	AMF-6F-18002650-25-10P	AVU	5/19/2009	16
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVI	7/14/2010	13
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVH	7/14/2010	13
Pre-Amplifier	Miteq	AMF-3D00100800-32-13P	AVF	7/14/2010	13
Pre-Amplifier	Miteq	AM-1616-1000	AVM	7/14/2010	13
Antenna, Horn	ETS Lindgren	3160-10	AIW	NCR	0
Antenna, Horn	ETS Lindgren	3160-09	AIV	NCR	0
Antenna, Horn	ETS	3160-08	AIA	NCR	0
Antenna, Horn	ETS	3160.07	AHZ	10/14/2008	24
Antenna, Horn	ETS	3115	AIB	8/25/2008	24
Antenna, Biconilog	EMCO	3141	AXG	2/15/2010	13

MEASUREMENT BANDWIDTHS

Frequency Range	Peak Data	Quasi-Peak Data	Average Data
	(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

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4. The measurement uncertainty estimation is available upon request.

TEST DESCRIPTION

The highest gain antenna of each type to be used with the EUT were tested. The EUT was configured for the lowest, a middle, and the highest transmit frequency in each operational band. For each configuration, the spectrum was scanned throughout the specified range. Measurements were made to satisfy the three requirements of 47 CFR 15.407: Field strength under 1GHz, Restricted Bands of 47 CFR 15.205, and EIRP of 47 CFR 15.407. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis, and adjusting the measurement antenna height and polarization (per ANSI C63.10:2009). A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity.

The amplitude and frequency of the highest emissions were noted. The EUT was then replaced with a ½ wave dipole that was successively tuned to each of the highest spurious emissions. A signal generator was connected to the dipole (horn antenna for frequencies above 1GHz), and its output was adjusted to match the level previously noted for each frequency. The output of the signal generator was recorded, and by factoring in the cable loss to the dipole antenna (or horn) and its gain (dBi); the effective radiated power for each radiated spurious emission was determined.

EUT: RC12	Work Order: INMC0575
Serial Number: R14	Date: 08/03/10
Customer: Intermec Technologies Corporation	Temperature: 21.4 °C
Attendees: none	Humidity: 56%
Project: None	Barometric Pres.: 1019.1 mb
Tested by: Dan Haas	Power: 5VDC
	Job Site: EV12

TEST SPECIFICATIONS	Test Method
FCC 15.407:2010	ANSI C63.10:2009

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

COMMENTS
See notes for channel and EUT orientation.

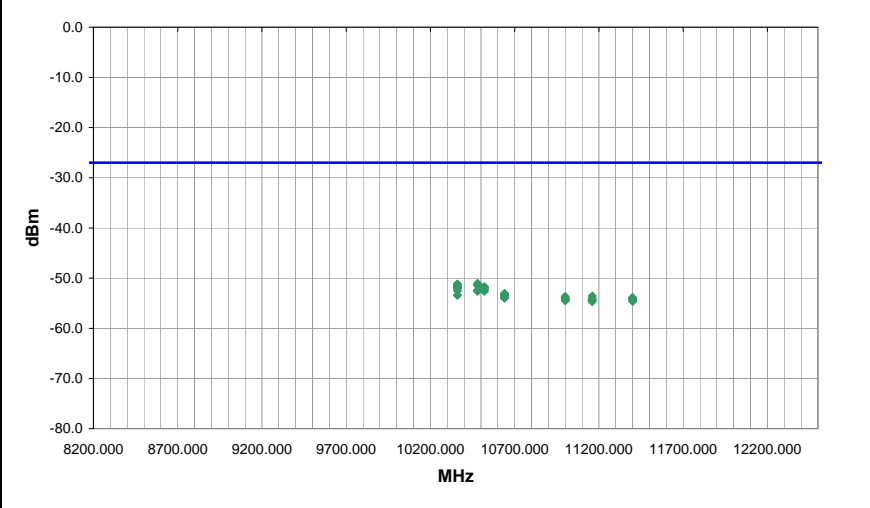
EUT OPERATING MODES
Continuous Tx, 802.11 5GHz

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	7
Configuration #	1
Results	Pass

Signature 



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
10479.960	239.0	1.2	V-Horn	PK	7.89E-09	-51.0	-27.0	-24.0	802.11a 6Mbps, Ch:48, EUT horizontal, antenna vertical.
10360.180	240.0	1.1	V-Horn	PK	7.71E-09	-51.1	-27.0	-24.1	802.11a 6Mbps, Ch:36, EUT horizontal, antenna vertical.
10359.970	240.0	1.1	V-Horn	PK	7.54E-09	-51.2	-27.0	-24.2	802.11a 36Mbps, Ch:36, EUT horizontal, antenna vertical.
10360.020	240.0	1.1	V-Horn	PK	7.38E-09	-51.3	-27.0	-24.3	802.11n MCS0, Ch:36, EUT horizontal, antenna vertical.
10360.050	240.0	1.1	V-Horn	PK	7.38E-09	-51.3	-27.0	-24.3	802.11n MCS7, Ch:36, EUT horizontal, antenna vertical.
10480.520	239.0	1.2	V-Horn	PK	7.38E-09	-51.3	-27.0	-24.3	802.11a 36Mbps, Ch:48, EUT horizontal, antenna vertical.
10479.360	239.0	1.2	V-Horn	PK	7.20E-09	-51.4	-27.0	-24.4	802.11n MCS0, Ch:48, EUT horizontal, antenna vertical.
10479.880	239.0	1.2	V-Horn	PK	7.20E-09	-51.4	-27.0	-24.4	802.11a 54Mbps, Ch:48, EUT horizontal, antenna vertical.
10479.900	239.0	1.2	V-Horn	PK	7.20E-09	-51.4	-27.0	-24.4	802.11n MCS7, Ch:48, EUT horizontal, antenna vertical.
10359.690	240.0	1.1	V-Horn	PK	6.87E-09	-51.6	-27.0	-24.6	802.11a 54Mbps, Ch:36, EUT horizontal, antenna vertical.
10359.990	72.0	1.1	V-Horn	PK	6.87E-09	-51.6	-27.0	-24.6	802.11a 6Mbps, Ch:36, EUT on side, antenna vertical.
10359.790	47.0	1.2	H-Horn	PK	6.72E-09	-51.7	-27.0	-24.7	802.11a 6Mbps, Ch:36, EUT vertical, antenna horizontal.
10519.640	241.0	1.1	V-Horn	PK	6.72E-09	-51.7	-27.0	-24.7	802.11a 6Mbps, Ch:52, EUT horizontal, antenna vertical.
10519.980	241.0	1.1	V-Horn	PK	6.72E-09	-51.7	-27.0	-24.7	802.11n MCS0, Ch:52, EUT horizontal, antenna vertical.
10359.960	47.0	1.2	H-Horn	PK	6.56E-09	-51.8	-27.0	-24.8	802.11n MCS0, Ch:36, EUT vertical, antenna horizontal.
10360.280	47.0	1.2	H-Horn	PK	6.41E-09	-51.9	-27.0	-24.9	802.11n MCS7, Ch:36, EUT vertical, antenna horizontal.
10519.970	55.0	1.1	H-Horn	PK	6.41E-09	-51.9	-27.0	-24.9	802.11a 6Mbps, Ch:52, EUT vertical, antenna horizontal.
10519.980	241.0	1.1	V-Horn	PK	6.41E-09	-51.9	-27.0	-24.9	802.11a 54Mbps, Ch:52, EUT vertical, antenna horizontal.
10360.220	47.0	1.2	H-Horn	PK	6.27E-09	-52.0	-27.0	-25.0	802.11a 54Mbps, Ch:36, EUT vertical, antenna horizontal.
10519.840	241.0	1.1	V-Horn	PK	6.27E-09	-52.0	-27.0	-25.0	802.11n MCS7, Ch:52, EUT horizontal, antenna vertical.

EUT: RC12		Work Order: INMC0575
Serial Number: R14		Date: 08/03/10
Customer: Intermec Technologies Corporation		Temperature: 21.4 °C
Attendees: none		Humidity: 56%
Project: None		Barometric Pres.: 1019.1 mb
Tested by: Dan Haas		Power: SVDC
		Job Site: EV12

TEST SPECIFICATIONS		Test Method
FCC 15.209:2010		ANSI C63.10:2009

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

COMMENTS
 See notes for channel and EUT orientation.

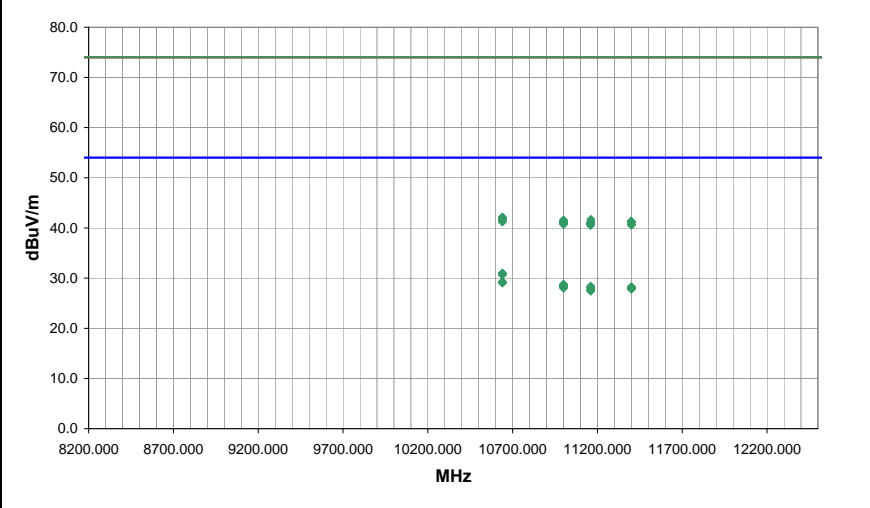
EUT OPERATING MODES
 Continuous Tx, 802.11 5GHz

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	7
Configuration #	1
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
10640.000	39.8	-8.8	239.0	1.1	0.0	0.0	V-Horn	AV	0.0	31.0	54.0	-23.0	802.11n MCS7, Ch:64, EUT horizontal, antenna vertical.
10640.030	39.8	-8.8	239.0	1.1	0.0	0.0	V-Horn	AV	0.0	31.0	54.0	-23.0	802.11n MCS0, Ch:64, EUT horizontal, antenna vertical.
10640.030	39.7	-8.8	239.0	1.1	0.0	0.0	V-Horn	AV	0.0	30.9	54.0	-23.1	802.11a 54Mbps, Ch:64, EUT horizontal, antenna vertical.
10640.040	39.6	-8.8	239.0	1.1	0.0	0.0	V-Horn	AV	0.0	30.8	54.0	-23.2	802.11a 36Mbps, Ch:64, EUT horizontal, antenna vertical.
10640.020	39.4	-8.8	239.0	1.1	0.0	0.0	V-Horn	AV	0.0	30.6	54.0	-23.4	802.11a 6Mbps, Ch:64, EUT horizontal, antenna vertical.
10640.010	38.1	-8.8	61.0	1.1	0.0	0.0	H-Horn	AV	0.0	29.3	54.0	-24.7	802.11n MCS0, Ch:64, EUT vertical, antenna horizontal.
10640.040	38.0	-8.8	61.0	1.1	0.0	0.0	H-Horn	AV	0.0	29.2	54.0	-24.8	802.11n MCS7, Ch:64, EUT vertical, antenna horizontal.
10640.050	38.0	-8.8	61.0	1.1	0.0	0.0	H-Horn	AV	0.0	29.2	54.0	-24.8	802.11a 6Mbps, Ch:64, EUT vertical, antenna horizontal.
10640.010	37.9	-8.8	61.0	1.1	0.0	0.0	H-Horn	AV	0.0	29.1	54.0	-24.9	802.11a 54Mbps, Ch:64, EUT vertical, antenna horizontal.
10640.030	37.8	-8.8	61.0	1.1	0.0	0.0	H-Horn	AV	0.0	29.0	54.0	-25.0	802.11a 36Mbps, Ch:64, EUT vertical, antenna horizontal.
10999.990	38.1	-9.3	3.0	1.1	0.0	0.0	H-Horn	AV	0.0	28.8	54.0	-25.2	802.11n MCS7, Ch:100, EUT vertical, antenna horizontal.
11000.000	38.0	-9.3	3.0	1.1	0.0	0.0	H-Horn	AV	0.0	28.7	54.0	-25.3	802.11n MCS0, Ch:100, EUT vertical, antenna horizontal.
11000.030	38.0	-9.3	3.0	1.1	0.0	0.0	H-Horn	AV	0.0	28.7	54.0	-25.3	802.11a 6Mbps, Ch:100, EUT vertical, antenna horizontal.
10999.950	37.8	-9.3	3.0	1.1	0.0	0.0	H-Horn	AV	0.0	28.5	54.0	-25.5	802.11a 36Mbps, Ch:100, EUT vertical, antenna horizontal.
11000.070	37.8	-9.3	3.0	1.1	0.0	0.0	H-Horn	AV	0.0	28.5	54.0	-25.5	802.11a 54Mbps, Ch:100, EUT vertical, antenna horizontal.
11000.030	37.7	-9.3	68.0	1.1	0.0	0.0	V-Horn	AV	0.0	28.4	54.0	-25.6	802.11n MCS7, Ch:100, EUT horizontal, antenna vertical.
11160.010	37.8	-9.4	357.0	1.2	0.0	0.0	H-Horn	AV	0.0	28.4	54.0	-25.6	802.11n MCS7, Ch:116, EUT vertical, antenna horizontal.
11400.010	38.0	-9.7	357.0	1.1	0.0	0.0	H-Horn	AV	0.0	28.3	54.0	-25.7	802.11n MCS7, Ch:140, EUT vertical, antenna horizontal.
11000.020	37.6	-9.3	68.0	1.1	0.0	0.0	V-Horn	AV	0.0	28.3	54.0	-25.7	802.11a 54Mbps, Ch:100, EUT horizontal, antenna vertical.
11000.110	37.6	-9.3	68.0	1.1	0.0	0.0	V-Horn	AV	0.0	28.3	54.0	-25.7	802.11n MCS0, Ch:100, EUT horizontal, antenna vertical.

NORTHWEST **EMC** **SPURIOUS RADIATED EMISSIONS DATA SHEET** PSA 2008.07.21 EMI 2008.1.9

EUT: RC12	Work Order: INMC0575
Serial Number: R14	Date: 08/03/10
Customer: Intermec Technologies Corporation	Temperature: 21.4 °C
Attendees: none	Humidity: 56%
Project: None	Barometric Pres.: 1019.1 mb
Tested by: Dan Haas	Power: 5VDC
	Job Site: EV12

TEST SPECIFICATIONS	Test Method
FCC 15.209:2010	ANSI C63.10:2009

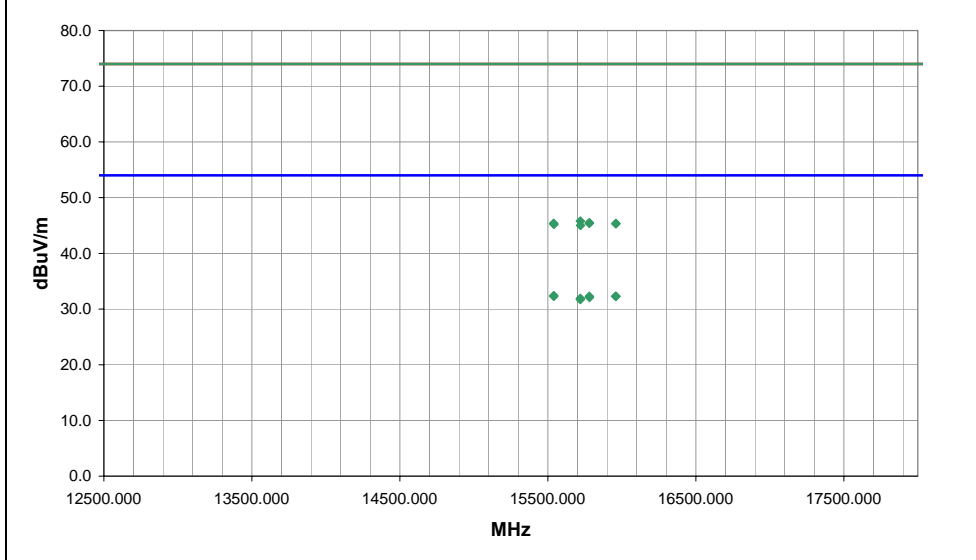
TEST PARAMETERS	
Antenna Height(s) (m) 1 - 4	Test Distance (m) 3

COMMENTS
See notes for channel and EUT orientation.

EUT OPERATING MODES
Continuous Tx. 802.11a

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
15540.320	29.1	3.3	81.0	1.1	3.0	0.0	V-Horn	AV	0.0	32.4	54.0	-21.6	Ch:36, EUT horizontal, antenna vertical.
15780.340	29.0	3.3	16.0	1.1	3.0	0.0	V-Horn	AV	0.0	32.3	54.0	-21.7	Ch:52, EUT horizontal, antenna vertical.
15958.050	29.0	3.3	149.0	1.1	3.0	0.0	V-Horn	AV	0.0	32.3	54.0	-21.7	Ch:64, EUT horizontal, antenna vertical.
15960.520	29.0	3.3	310.0	1.1	3.0	0.0	H-Horn	AV	0.0	32.3	54.0	-21.7	Ch:64, EUT vertical, antenna horizontal.
15539.900	29.0	3.3	89.0	1.1	3.0	0.0	H-Horn	AV	0.0	32.3	54.0	-21.7	Ch:36, EUT vertical, antenna horizontal.
15781.240	28.8	3.3	315.0	1.1	3.0	0.0	H-Horn	AV	0.0	32.1	54.0	-21.9	Ch:52, EUT vertical, antenna horizontal.
15720.060	28.6	3.3	259.0	1.1	3.0	0.0	V-Horn	AV	0.0	31.9	54.0	-22.1	Ch:48, EUT horizontal, antenna vertical.
15720.220	28.4	3.3	48.0	1.1	3.0	0.0	H-Horn	AV	0.0	31.7	54.0	-22.3	Ch:48, EUT vertical, antenna horizontal.
15719.750	42.5	3.3	48.0	1.1	3.0	0.0	H-Horn	PK	0.0	45.8	74.0	-28.2	Ch:48, EUT vertical, antenna horizontal.
15780.180	42.2	3.3	315.0	1.1	3.0	0.0	H-Horn	PK	0.0	45.5	74.0	-28.5	Ch:52, EUT vertical, antenna horizontal.
15780.140	42.1	3.3	16.0	1.1	3.0	0.0	V-Horn	PK	0.0	45.4	74.0	-28.6	Ch:52, EUT horizontal, antenna vertical.
15959.830	42.1	3.3	149.0	1.1	3.0	0.0	V-Horn	PK	0.0	45.4	74.0	-28.6	Ch:64, EUT horizontal, antenna vertical.
15539.480	42.1	3.3	81.0	1.1	3.0	0.0	V-Horn	PK	0.0	45.4	74.0	-28.6	Ch:36, EUT horizontal, antenna vertical.
15959.270	42.0	3.3	310.0	1.1	3.0	0.0	H-Horn	PK	0.0	45.3	74.0	-28.7	Ch:64, EUT vertical, antenna horizontal.
15540.960	41.9	3.3	89.0	1.1	3.0	0.0	H-Horn	PK	0.0	45.2	74.0	-28.8	Ch:36, EUT vertical, antenna horizontal.
15720.790	41.7	3.3	259.0	1.1	3.0	0.0	V-Horn	PK	0.0	45.0	74.0	-29.0	Ch:48, EUT horizontal, antenna vertical.

EUT: RC12	Work Order: INMC0575
Serial Number: R14	Date: 08/03/10
Customer: Intermec Technologies Corporation	Temperature: 21.4 °C
Attendees: none	Humidity: 56%
Project: None	Barometric Pres.: 1019.1 mb
Tested by: Dan Haas	Power: 5VDC
	Job Site: EV12

TEST SPECIFICATIONS	Test Method
FCC 15.407:2010	ANSI C63.10:2009

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

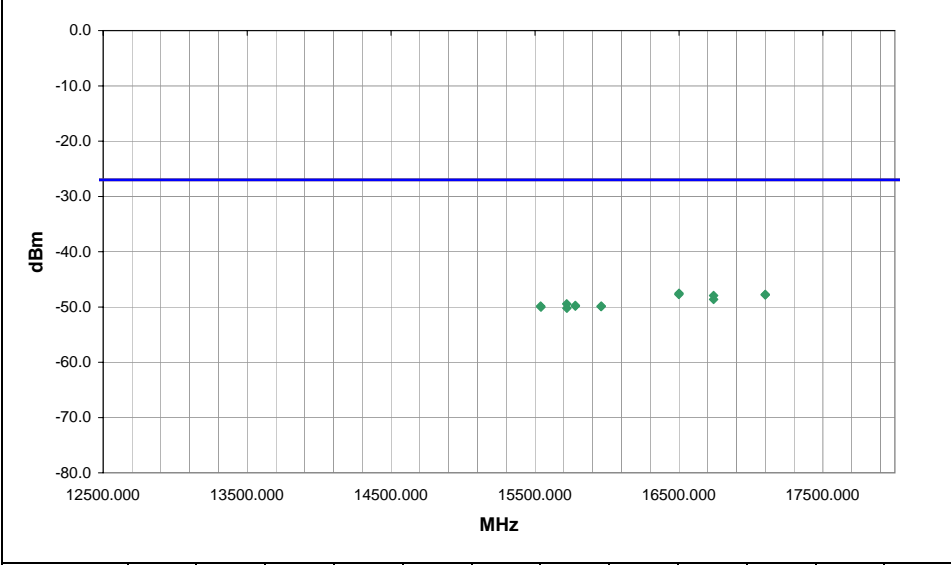
COMMENTS
See notes for channel and EUT orientation.

EUT OPERATING MODES
Continuous Tx, 802.11a, 6Mbps

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	8
Configuration #	1
Results	Pass

Signature 



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
16500.040	97.0	1.1	V-Horn	PK	1.77E-08	-47.5	-27.0	-20.5	Ch:100, EUT horizontal, antenna vertical.
17100.010	0.0	1.4	H-Horn	PK	1.69E-08	-47.7	-27.0	-20.7	Ch:140, EUT vertical, antenna horizontal.
16499.720	49.0	1.1	H-Horn	PK	1.69E-08	-47.7	-27.0	-20.7	Ch:100, EUT vertical, antenna horizontal.
17099.680	124.0	1.1	V-Horn	PK	1.65E-08	-47.8	-27.0	-20.8	Ch:140, EUT horizontal, antenna vertical.
16740.130	294.0	1.1	H-Horn	PK	1.61E-08	-47.9	-27.0	-20.9	Ch:116, EUT vertical, antenna horizontal.
16740.290	42.0	1.1	V-Horn	PK	1.37E-08	-48.6	-27.0	-21.6	Ch:116, EUT horizontal, antenna vertical.
15719.750	48.0	1.1	H-Horn	PK	1.14E-08	-49.4	-27.0	-22.4	Ch:48, EUT vertical, antenna horizontal.
15780.180	315.0	1.1	H-Horn	PK	1.06E-08	-49.7	-27.0	-22.7	Ch:52, EUT vertical, antenna horizontal.
15780.140	16.0	1.1	V-Horn	PK	1.04E-08	-49.8	-27.0	-22.8	Ch:52, EUT horizontal, antenna vertical.
15959.830	149.0	1.1	V-Horn	PK	1.04E-08	-49.8	-27.0	-22.8	Ch:64, EUT horizontal, antenna vertical.
15539.480	81.0	1.1	V-Horn	PK	1.04E-08	-49.8	-27.0	-22.8	Ch:36, EUT horizontal, antenna vertical.
15959.270	310.0	1.1	H-Horn	PK	1.02E-08	-49.9	-27.0	-22.9	Ch:64, EUT vertical, antenna horizontal.
15540.960	89.0	1.1	H-Horn	PK	9.93E-09	-50.0	-27.0	-23.0	Ch:36, EUT vertical, antenna horizontal.
15720.790	259.0	1.1	V-Horn	PK	9.49E-09	-50.2	-27.0	-23.2	Ch:48, EUT horizontal, antenna vertical.

EUT: RC12	Work Order: INMC0575
Serial Number: R14	Date: 08/03/10
Customer: Intermec Technologies Corporation	Temperature: 23.2 °C
Attendees: none	Humidity: 50%
Project: None	Barometric Pres.: 1017.5 mb
Tested by: Dan Haas	Power: 5VDC
	Job Site: EV12


TEST SPECIFICATIONS	Test Method
FCC 15.407:2010	ANSI C63.10:2009

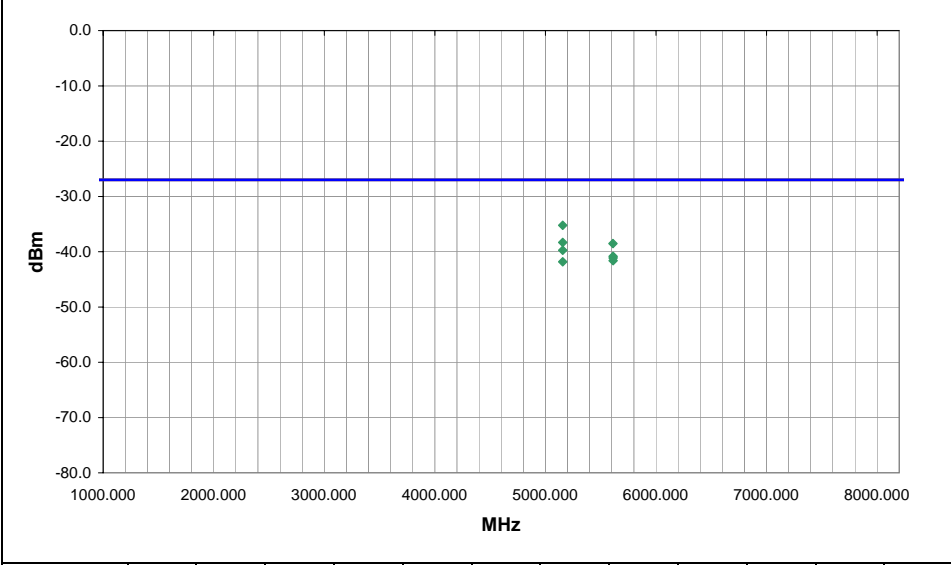
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
See notes for channel and EUT orientation.

EUT OPERATING MODES
Continuous Tx, 802.11a, 6Mbps

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	9	Signature 
Configuration #	1	
Results	Pass	



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
5155.960	238.0	1.6	H-Horn	PK	3.00E-07	-35.2	-27.0	-8.2	Ch:100, EUT horizontal, antenna vertical.
5156.280	285.0	1.7	V-Horn	PK	1.47E-07	-38.3	-27.0	-11.3	Ch:100, EUT vertical, antenna horizontal.
5611.577	232.0	1.5	H-Horn	PK	1.40E-07	-38.5	-27.0	-11.5	Ch:36, EUT horizontal, antenna vertical.
5156.160	198.0	2.4	V-Horn	PK	1.06E-07	-39.7	-27.0	-12.7	Ch:100, EUT horizontal, antenna vertical.
5611.640	269.0	1.0	V-Horn	PK	8.26E-08	-40.8	-27.0	-13.8	Ch:36, EUT vertical, antenna horizontal.
5611.667	173.0	2.3	V-Horn	PK	7.71E-08	-41.1	-27.0	-14.1	Ch:36, EUT horizontal, antenna vertical.
5611.760	170.0	1.2	H-Horn	PK	6.87E-08	-41.6	-27.0	-14.6	Ch:36, EUT vertical, antenna horizontal.
5156.270	175.0	1.2	H-Horn	PK	6.56E-08	-41.8	-27.0	-14.8	Ch:100, EUT vertical, antenna horizontal.

EUT: RC12	Work Order: INMC0575
Serial Number: R14	Date: 08/05/10
Customer: Intermec Technologies Corporation	Temperature: 23.2 °C
Attendees: none	Humidity: 50%
Project: None	Barometric Pres.: 1017.5 mb
Tested by: Dan Haas	Power: 5VDC
	Job Site: EV12

TEST SPECIFICATIONS	Test Method
FCC 15.209:2010	ANSI C63.10:2009

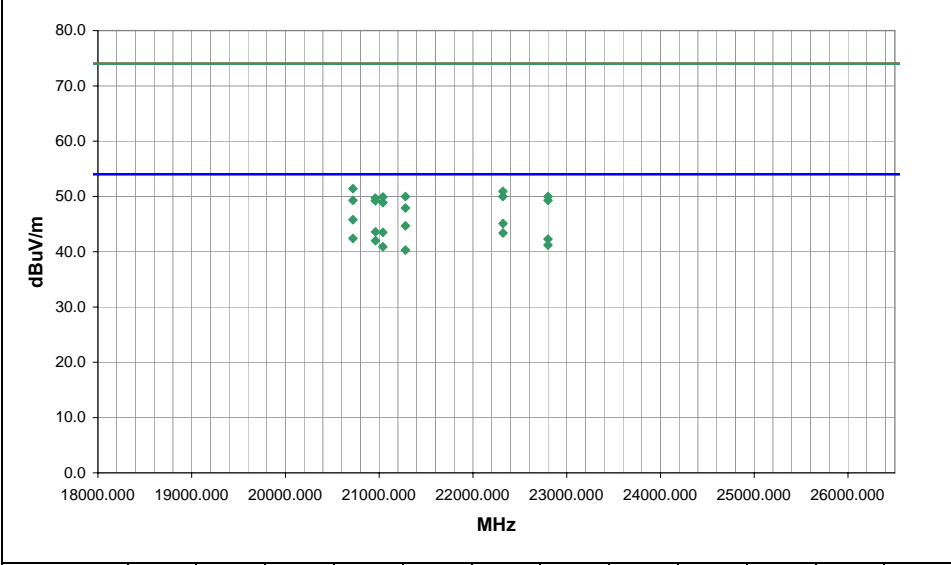
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 2	Test Distance (m)	3

COMMENTS
See comments for channel and EUT orientation.

EUT OPERATING MODES
Continuous Tx, 802.11a, 6Mbps

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	12	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
20720.040	54.7	-8.9	35.0	1.1	3.0	0.0	+High Horr	AV	0.0	45.8	54.0	-8.2	Ch:36, EUT vertical, antenna horizontal.
22320.040	54.3	-9.2	32.0	1.2	3.0	0.0	√-High Horr	AV	0.0	45.1	54.0	-8.9	Ch:116, EUT on side, antenna vertical.
21280.050	53.8	-9.1	28.0	1.2	3.0	0.0	+High Horr	AV	0.0	44.7	54.0	-9.3	Ch:64, EUT vertical, antenna horizontal.
20960.030	52.6	-9.0	29.0	1.1	3.0	0.0	+High Horr	AV	0.0	43.6	54.0	-10.4	Ch:48, EUT vertical, antenna horizontal.
21040.030	52.5	-9.0	25.0	1.1	3.0	0.0	+High Horr	AV	0.0	43.5	54.0	-10.5	Ch:52, EUT vertical, antenna horizontal.
22320.030	52.6	-9.2	15.0	1.1	3.0	0.0	+High Horr	AV	0.0	43.4	54.0	-10.6	Ch:116, EUT vertical, antenna horizontal.
20720.030	51.3	-8.9	49.0	1.0	3.0	0.0	√-High Horr	AV	0.0	42.4	54.0	-11.6	Ch:36, EUT on side, antenna vertical.
22800.050	51.3	-9.0	21.0	1.1	3.0	0.0	+High Horr	AV	0.0	42.3	54.0	-11.7	Ch:140, EUT vertical, antenna horizontal.
20960.050	51.0	-9.0	47.0	1.0	3.0	0.0	√-High Horr	AV	0.0	42.0	54.0	-12.0	Ch:48, EUT on side, antenna vertical.
22800.030	50.2	-9.0	38.0	1.2	3.0	0.0	√-High Horr	AV	0.0	41.2	54.0	-12.8	Ch:140, EUT on side, antenna vertical.
21040.020	49.9	-9.0	40.0	1.0	3.0	0.0	√-High Horr	AV	0.0	40.9	54.0	-13.1	Ch:52, EUT on side, antenna vertical.
21280.010	49.4	-9.1	319.0	1.2	3.0	0.0	√-High Horr	AV	0.0	40.3	54.0	-13.7	Ch:64, EUT on side, antenna vertical.
20719.970	60.3	-8.9	35.0	1.1	3.0	0.0	+High Horr	PK	0.0	51.4	74.0	-22.6	Ch:36, EUT vertical, antenna horizontal.
22319.820	60.1	-9.2	32.0	1.2	3.0	0.0	√-High Horr	PK	0.0	50.9	74.0	-23.1	Ch:116, EUT on side, antenna vertical.
22319.960	59.2	-9.2	15.0	1.1	3.0	0.0	+High Horr	PK	0.0	50.0	74.0	-24.0	Ch:116, EUT vertical, antenna horizontal.
22800.020	59.0	-9.0	21.0	1.1	3.0	0.0	+High Horr	PK	0.0	50.0	74.0	-24.0	Ch:140, EUT vertical, antenna horizontal.
21280.100	59.1	-9.1	28.0	1.2	3.0	0.0	+High Horr	PK	0.0	50.0	74.0	-24.0	Ch:64, EUT vertical, antenna horizontal.
21040.050	58.9	-9.0	25.0	1.1	3.0	0.0	+High Horr	PK	0.0	49.9	74.0	-24.1	Ch:52, EUT vertical, antenna horizontal.
20959.880	58.7	-9.0	29.0	1.1	3.0	0.0	+High Horr	PK	0.0	49.7	74.0	-24.3	Ch:48, EUT vertical, antenna horizontal.
20719.880	58.2	-8.9	49.0	1.0	3.0	0.0	√-High Horr	PK	0.0	49.3	74.0	-24.7	Ch:36, EUT on side, antenna vertical.

EUT: RC12	Work Order: INMC0575
Serial Number: R14	Date: 08/05/10
Customer: Intermec Technologies Corporation	Temperature: 23.2 °C
Attendees: none	Humidity: 50%
Project: None	Barometric Pres.: 1017.5 mb
Tested by: Dan Haas	Power: 5VDC
	Job Site: EV12

TEST SPECIFICATIONS	Test Method
FCC 15.407:2010	ANSI C63.10:2009

TEST PARAMETERS
Antenna Height(s) (m) 1 - 2 Test Distance (m) 3

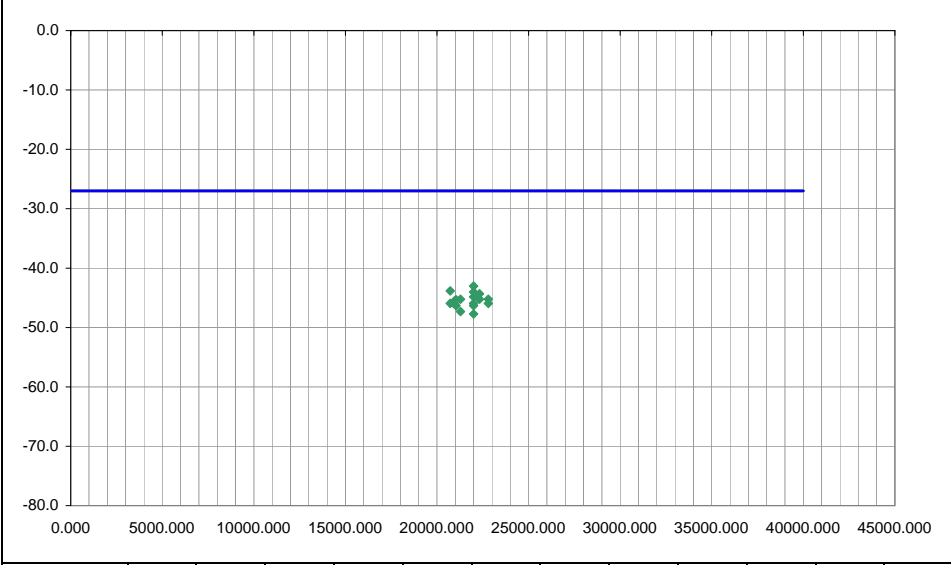
COMMENTS
See comments for channel and EUT orientation.

EUT OPERATING MODES
Continuous Tx. 802.11a, 6Mbps

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	12
Configuration #	1
Results	Pass

Signature 



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
22000.000	41.0	1.2	H-High	Horr	PK 4.98E-08	-43.0	-27.0	-16.0	Ch:100, EUT vertical, antenna horizontal.
20719.970	35.0	1.1	H-High	Horr	PK 4.14E-08	-43.8	-27.0	-16.8	Ch:36, EUT vertical, antenna horizontal.
22000.050	30.0	1.2	V-High	Horr	PK 3.95E-08	-44.0	-27.0	-17.0	Ch:100, EUT on side, antenna vertical.
22319.820	32.0	1.2	V-High	Horr	PK 3.69E-08	-44.3	-27.0	-17.3	Ch:116, EUT on side, antenna vertical.
21999.830	133.0	1.1	V-High	Horr	PK 3.29E-08	-44.8	-27.0	-17.8	Ch:100, EUT horizontal, antenna vertical.
22319.960	15.0	1.1	H-High	Horr	PK 3.00E-08	-45.2	-27.0	-18.2	Ch:116, EUT vertical, antenna horizontal.
22800.020	21.0	1.1	H-High	Horr	PK 3.00E-08	-45.2	-27.0	-18.2	Ch:140, EUT vertical, antenna horizontal.
21280.100	28.0	1.2	H-High	Horr	PK 3.00E-08	-45.2	-27.0	-18.2	Ch:64, EUT vertical, antenna horizontal.
21040.050	25.0	1.1	H-High	Horr	PK 2.93E-08	-45.3	-27.0	-18.3	Ch:52, EUT vertical, antenna horizontal.
20959.880	29.0	1.1	H-High	Horr	PK 2.80E-08	-45.5	-27.0	-18.5	Ch:48, EUT vertical, antenna horizontal.
20719.880	49.0	1.0	V-High	Horr	PK 2.55E-08	-45.9	-27.0	-18.9	Ch:36, EUT on side, antenna vertical.
22800.050	38.0	1.2	V-High	Horr	PK 2.55E-08	-45.9	-27.0	-18.9	Ch:140, EUT on side, antenna vertical.
22000.130	52.0	1.3	H-High	Horr	PK 2.55E-08	-45.9	-27.0	-18.9	Ch:100, EUT on side, antenna vertical.
20959.810	47.0	1.0	V-High	Horr	PK 2.50E-08	-46.0	-27.0	-19.0	Ch:48, EUT on side, antenna vertical.
21039.850	40.0	1.0	V-High	Horr	PK 2.33E-08	-46.3	-27.0	-19.3	Ch:52, EUT on side, antenna vertical.
22000.060	15.0	1.3	H-High	Horr	PK 2.33E-08	-46.3	-27.0	-19.3	Ch:100, EUT horizontal, antenna vertical.
21280.230	319.0	1.2	V-High	Horr	PK 1.85E-08	-47.3	-27.0	-20.3	Ch:64, EUT on side, antenna vertical.
22000.080	309.0	1.0	V-High	Horr	PK 1.69E-08	-47.7	-27.0	-20.7	Ch:100, EUT vertical, antenna horizontal.

EMC **SPURIOUS RADIATED EMISSIONS DATA SHEET** PSA 2008.07.21
EMI 2008.1.9

EUT: RC12	Work Order: INMC0575
Serial Number: R14	Date: 08/05/10
Customer: Intermec Technologies Corporation	Temperature: 22.3 °C
Attendees: none	Humidity: 47%
Project: None	Barometric Pres.: 1015.8 mb
Tested by: Dan Haas	Power: 5VDC
	Job Site: EV12

TEST SPECIFICATIONS	Test Method
FCC 15.407:2010	ANSI C63.10:2009

TEST PARAMETERS	
Antenna Height(s) (m) 1 - 2	Test Distance (m) 1


COMMENTS
See comments for channel and EUT orientation.

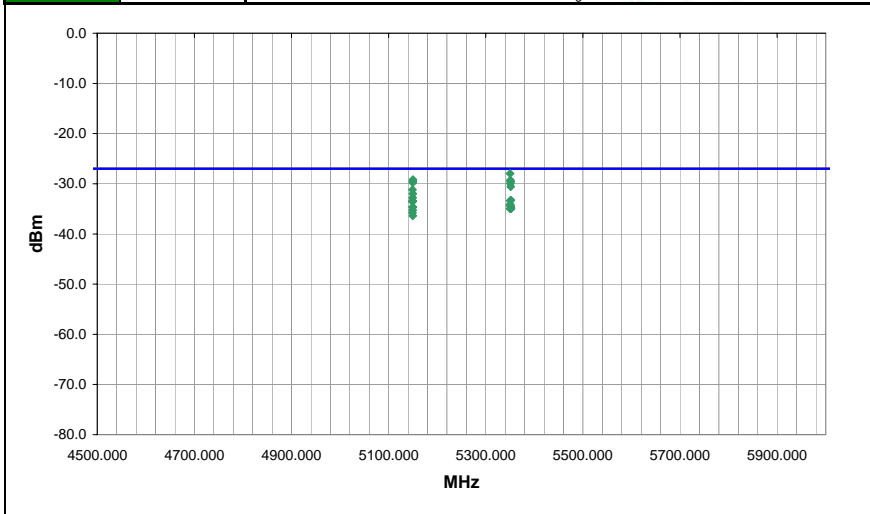
EUT OPERATING MODES
Continuous Tx, 802.11

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	13
Configuration #	1
Results	Pass

Signature 



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
5350.047	229.0	1.0	H-Horn	PK	1.60E-06	-28.0	-27.0	-1.0	802.11a 6Mbps, Ch:64, EUT horizontal, antenna vertical.
5149.993	316.0	1.0	H-Horn	PK	1.21E-06	-29.2	-27.0	-2.2	802.11a 6Mbps, Ch:36, EUT on side, antenna vertical.
5350.577	229.0	1.0	H-Horn	PK	1.18E-06	-29.3	-27.0	-2.3	802.11n MCS0, Ch:64, EUT horizontal, antenna vertical.
5149.627	238.0	1.0	H-Horn	PK	1.13E-06	-29.5	-27.0	-2.5	802.11a 6Mbps, Ch:36, EUT horizontal, antenna vertical.
5350.840	229.0	1.0	H-Horn	PK	1.10E-06	-29.6	-27.0	-2.6	802.11a 36Mbps, Ch:64, EUT horizontal, antenna vertical.
5351.407	298.0	1.0	H-Horn	PK	1.10E-06	-29.6	-27.0	-2.6	802.11a 6Mbps, Ch:64, EUT on side, antenna vertical.
5149.613	316.0	1.0	H-Horn	PK	1.05E-06	-29.8	-27.0	-2.8	802.11n MCS0, Ch:36, EUT on side, antenna vertical.
5350.700	284.0	1.2	V-Horn	PK	1.01E-06	-30.0	-27.0	-3.0	802.11a 6Mbps, Ch:64, EUT vertical, antenna horizontal.
5351.147	284.0	1.2	V-Horn	PK	8.77E-07	-30.6	-27.0	-3.6	802.11n MCS0, Ch:64, EUT vertical, antenna horizontal.
5149.000	190.0	1.4	V-Horn	PK	7.64E-07	-31.2	-27.0	-4.2	802.11a 6Mbps, Ch:36, EUT horizontal, antenna vertical.
5149.803	82.0	1.0	V-Horn	PK	6.35E-07	-32.0	-27.0	-5.0	802.11a 6Mbps, Ch:36, EUT vertical, antenna horizontal.
5149.207	190.0	1.4	V-Horn	PK	5.28E-07	-32.8	-27.0	-5.8	802.11n MCS0, Ch:36, EUT horizontal, antenna vertical.
5351.543	284.0	1.2	V-Horn	PK	4.71E-07	-33.3	-27.0	-6.3	802.11a 36Mbps, Ch:64, EUT vertical, antenna horizontal.
5149.263	316.0	1.0	H-Horn	PK	4.60E-07	-33.4	-27.0	-6.4	802.11a 36Mbps, Ch:36, EUT on side, antenna vertical.
5350.297	229.0	1.0	H-Horn	PK	4.60E-07	-33.4	-27.0	-6.4	802.11a 54Mbps, Ch:64, EUT horizontal, antenna vertical.
5149.283	316.0	1.0	H-Horn	PK	4.50E-07	-33.5	-27.0	-6.5	802.11a 54Mbps, Ch:36, EUT on side, antenna vertical.
5148.983	253.0	1.2	V-Horn	PK	4.39E-07	-33.6	-27.0	-6.6	802.11a 6Mbps, Ch:36, EUT on side, antenna vertical.
5350.310	229.0	1.0	H-Horn	PK	3.92E-07	-34.1	-27.0	-7.1	802.11n MCS7, Ch:64, EUT horizontal, antenna vertical.
5350.253	284.0	1.2	V-Horn	PK	3.65E-07	-34.4	-27.0	-7.4	802.11n MCS7, Ch:64, EUT vertical, antenna horizontal.
5351.247	284.0	1.2	V-Horn	PK	3.57E-07	-34.5	-27.0	-7.5	802.11a 54Mbps, Ch:64, EUT vertical, antenna horizontal.

EUT: RC12	Work Order: INMC0575
Serial Number: R14	Date: 08/05/10
Customer: Intermec Technologies Corporation	Temperature: 22.3 °C
Attendees: none	Humidity: 47%
Project: None	Barometric Pres.: 1015.8 mb
Tested by: Dan Haas	Power: 5VDC
	Job Site: EV12

TEST SPECIFICATIONS	Test Method
FCC 15.209:2010	ANSI C63.10:2009

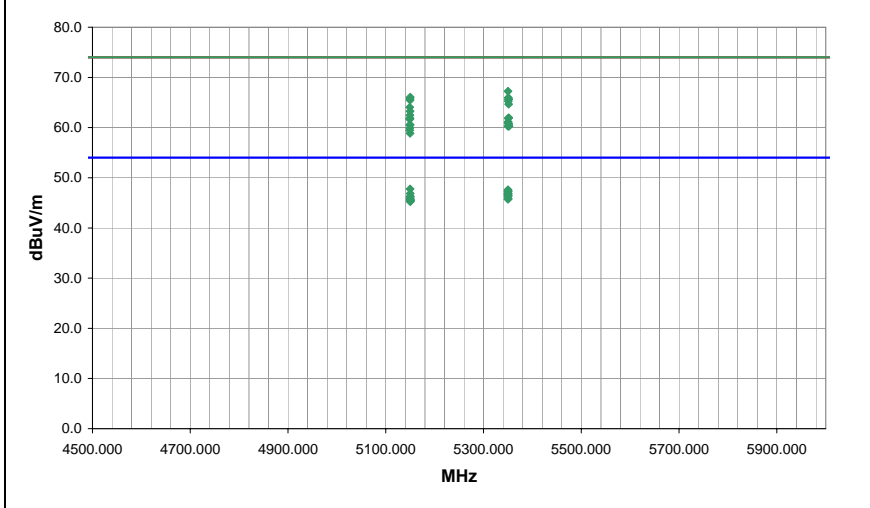
TEST PARAMETERS	
Antenna Height(s) (m) 1 - 2	Test Distance (m) 1

COMMENTS
See comments for channel and EUT orientation.

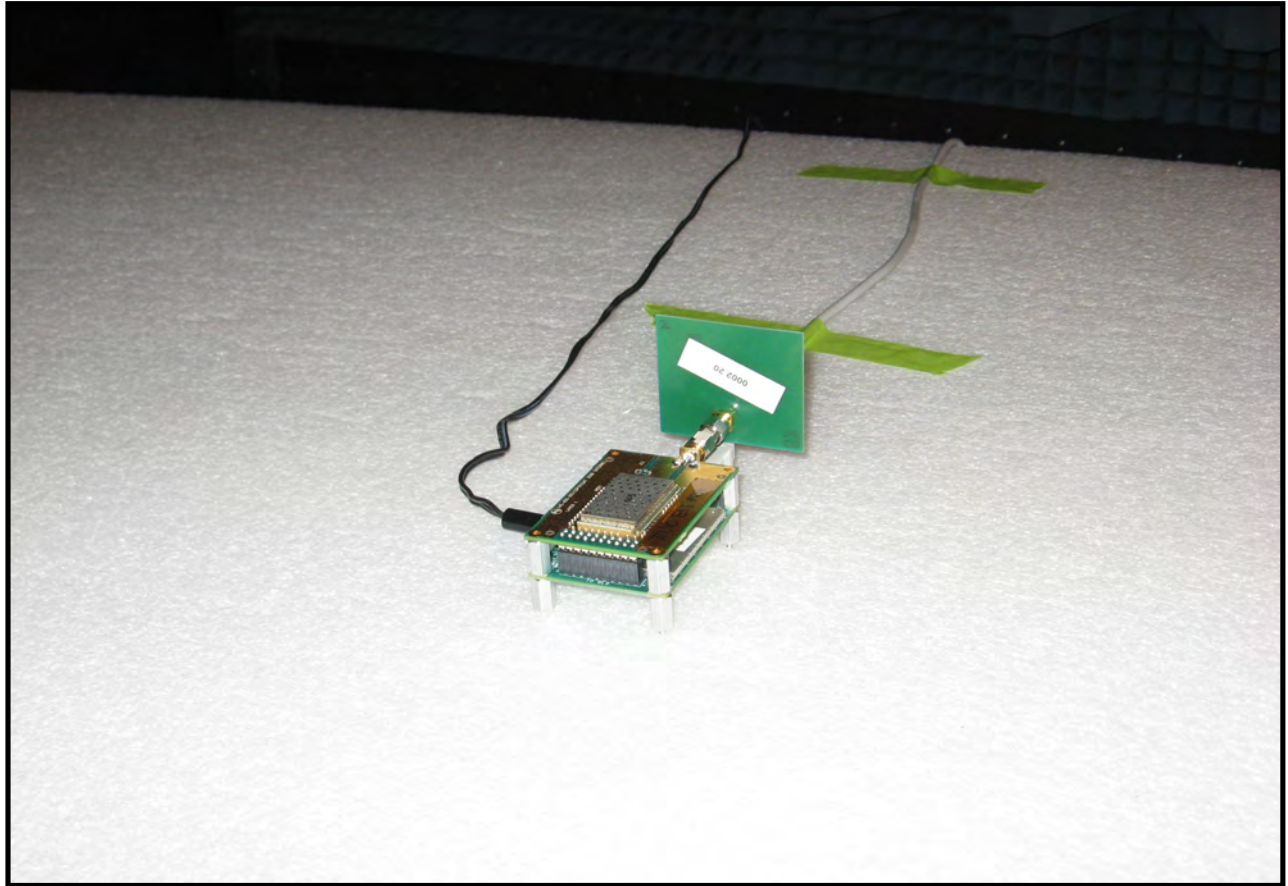
EUT OPERATING MODES
Continuous Tx, 802.11

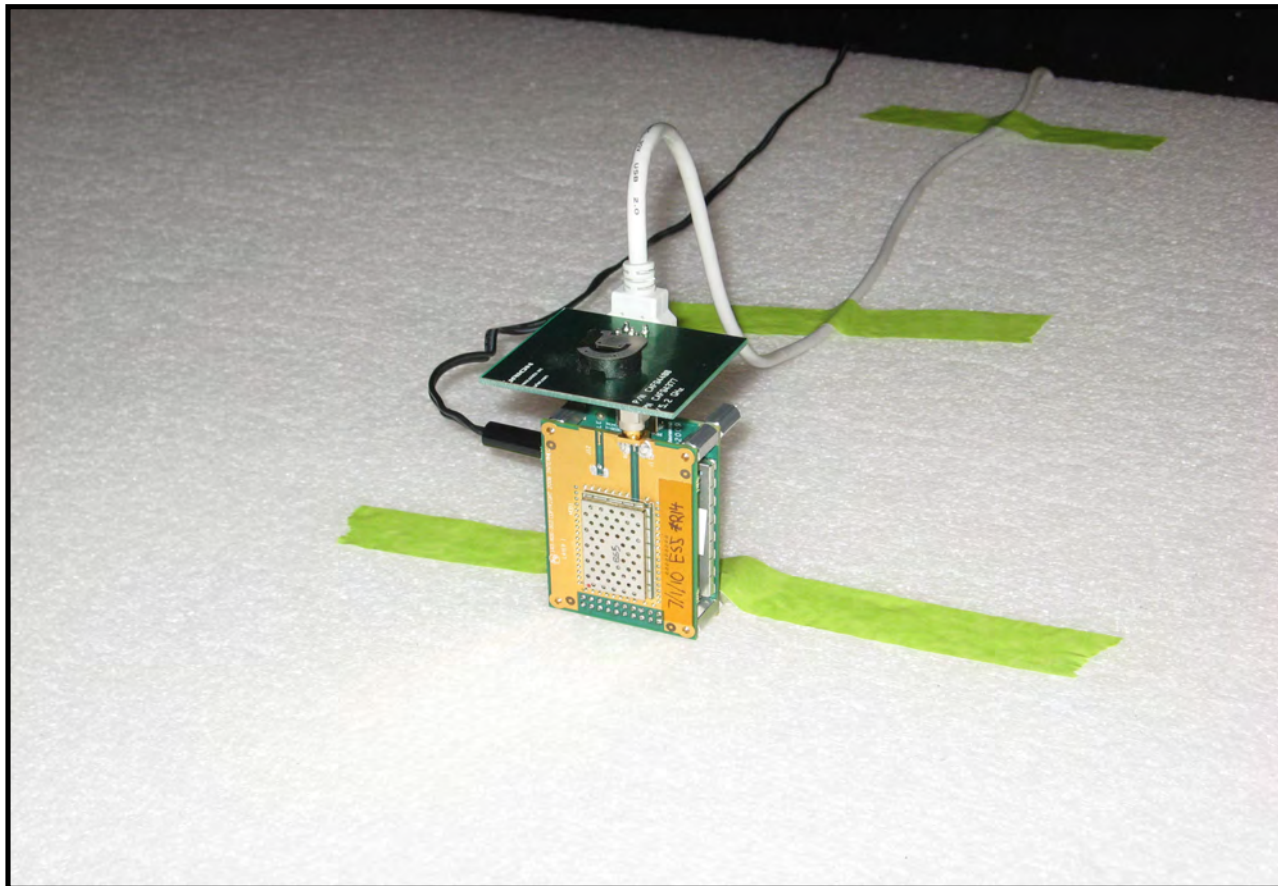
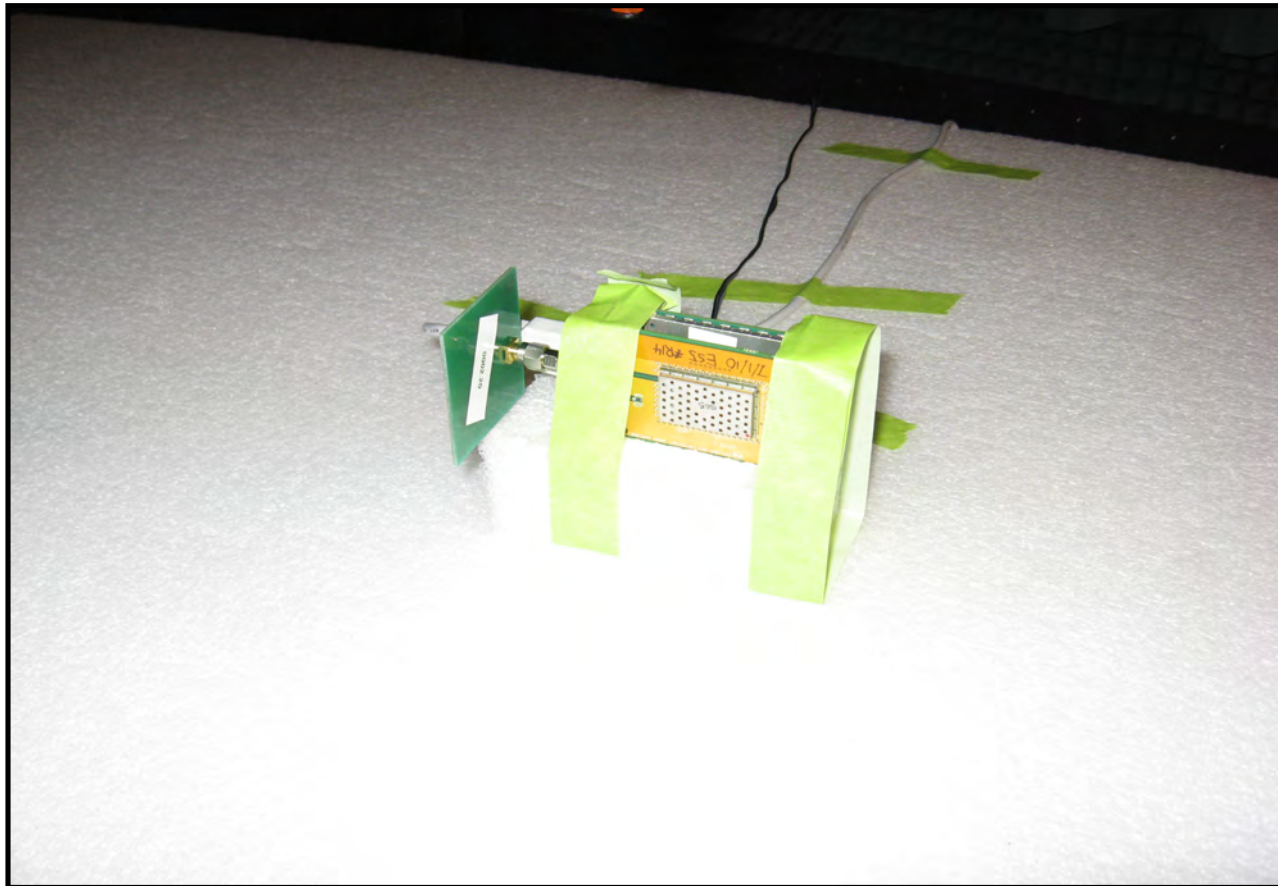
DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	13	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
5149.790	21.0	36.3	316.0	1.0	1.0	0.0	H-Horn	AV	-9.5	47.8	54.0	-6.2	802.11n MCS0, Ch:36, EUT on side, antenna vertical.
5350.023	20.4	36.7	229.0	1.0	1.0	0.0	H-Horn	AV	-9.5	47.6	54.0	-6.4	802.11n MCS0, Ch:64, EUT horizontal, antenna vertical.
5350.137	20.4	36.7	229.0	1.0	1.0	0.0	H-Horn	AV	-9.5	47.6	54.0	-6.4	802.11a 6Mbps, Ch:64, EUT horizontal, antenna vertical.
5350.043	20.1	36.7	229.0	1.0	1.0	0.0	H-Horn	AV	-9.5	47.3	54.0	-6.7	802.11a 36Mbps, Ch:64, EUT horizontal, antenna vertical.
5350.323	20.1	36.7	229.0	1.0	1.0	0.0	H-Horn	AV	-9.5	47.3	54.0	-6.7	802.11a 54Mbps, Ch:64, EUT horizontal, antenna vertical.
5350.047	40.1	36.7	229.0	1.0	1.0	0.0	H-Horn	PK	-9.5	67.3	74.0	-6.7	802.11a 6Mbps, Ch:64, EUT horizontal, antenna vertical.
5149.987	20.1	36.3	238.0	1.0	1.0	0.0	H-Horn	AV	-9.5	46.9	54.0	-7.1	802.11a 6Mbps, Ch:36, EUT horizontal, antenna vertical.
5350.093	19.7	36.7	298.0	1.0	1.0	0.0	H-Horn	AV	-9.5	46.9	54.0	-7.1	802.11a 6Mbps, Ch:64, EUT on side, antenna vertical.
5350.150	19.7	36.7	229.0	1.0	1.0	0.0	H-Horn	AV	-9.5	46.9	54.0	-7.1	802.11n MCS7, Ch:64, EUT horizontal, antenna vertical.
5350.007	19.6	36.7	284.0	1.2	1.0	0.0	V-Horn	AV	-9.5	46.8	54.0	-7.2	802.11n MCS0, Ch:64, EUT vertical, antenna horizontal.
5350.057	19.5	36.7	284.0	1.2	1.0	0.0	V-Horn	AV	-9.5	46.7	54.0	-7.3	802.11a 6Mbps, Ch:64, EUT vertical, antenna horizontal.
5350.373	19.3	36.7	284.0	1.2	1.0	0.0	V-Horn	AV	-9.5	46.5	54.0	-7.5	802.11a 36Mbps, Ch:64, EUT vertical, antenna horizontal.
5350.017	19.2	36.7	284.0	1.2	1.0	0.0	V-Horn	AV	-9.5	46.4	54.0	-7.6	802.11a 54Mbps, Ch:64, EUT vertical, antenna horizontal.
5149.923	19.5	36.3	316.0	1.0	1.0	0.0	H-Horn	AV	-9.5	46.3	54.0	-7.7	802.11a 36Mbps, Ch:36, EUT on side, antenna vertical.
5149.997	19.5	36.3	316.0	1.0	1.0	0.0	H-Horn	AV	-9.5	46.3	54.0	-7.7	802.11a 6Mbps, Ch:36, EUT on side, antenna vertical.
5350.103	19.1	36.7	284.0	1.2	1.0	0.0	V-Horn	AV	-9.5	46.3	54.0	-7.7	802.11n MCS7, Ch:64, EUT vertical, antenna horizontal.
5149.800	19.4	36.3	316.0	1.0	1.0	0.0	H-Horn	AV	-9.5	46.2	54.0	-7.8	802.11a 54Mbps, Ch:36, EUT on side, antenna vertical.
5149.993	39.3	36.3	316.0	1.0	1.0	0.0	H-Horn	PK	-9.5	66.1	74.0	-7.9	802.11a 6Mbps, Ch:36, EUT on side, antenna vertical.
5350.577	38.8	36.7	229.0	1.0	1.0	0.0	H-Horn	PK	-9.5	66.0	74.0	-8.0	802.11n MCS0, Ch:64, EUT horizontal, antenna vertical.
5149.757	19.1	36.3	316.0	1.0	1.0	0.0	H-Horn	AV	-9.5	45.9	54.0	-8.1	802.11n MCS7, Ch:36, EUT on side, antenna vertical.





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

Transmitting. 802.11(a), 6 Mbps, High Channel 140
Transmitting. 802.11(a), 6 Mbps, Mid Channel 116
Transmitting. 802.11(a), 6 Mbps, Low Channel 100
Transmitting. 802.11(a), 6 Mbps, High Channel 64
Transmitting. 802.11(a), 6 Mbps, Low Channel 52
Transmitting. 802.11(a), 6 Mbps, High Channel 48
Transmitting. 802.11(a), 6 Mbps, Low Channel 36

POWER SETTINGS INVESTIGATED

3.3 VDC from 120VAC

CONFIGURATIONS INVESTIGATED

INMC0575 - 3

SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Receiver	Rohde & Schwarz	ESCI	ARE	4/29/2010	12 mo
High Pass Filter	TTE	H97-100K-50-720B	HFX	2/16/2010	13 mo
Attenuator	Coaxicom	66702 2910-20	ATO	7/21/2009	13 mo
EV07 Cables	N/A	Conducted Cables	EVG	6/21/2010	13 mo
LISN	Solar	9252-50-R-24-BNC	LIN	5/27/2010	12 mo
LISN	Solar	9252-50-R-24-BNC	LIR	3/2/2010	12 mo

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

A measurement uncertainty estimation has been performed for each test per our internal quality document WP 342. The estimation is used to compare the measured result with its "true" or theoretically correct value. The expanded measurement uncertainty for radiated emissions measurements is less than +/- 4 dB, and for conducted emissions measurements is less than +/- 2.7 dB. Our measurement data meets or exceeds the measurement uncertainty requirements of CISPR 16-4; therefore, the test data can be compared directly to the specification limit to determine compliance. The calculations for measurement uncertainty are available upon request.

TEST DESCRIPTION

The EUT will be powered indirectly from the AC power line while operating in a host device. Therefore, conducted emissions measurements were made on the DC input of the EUT, or on the DC input of the device used to power the EUT. The AC power line conducted emissions were measured on a linear power supply providing DC power to the module while providing no filtering of the power inputs to the module.

The AC power line conducted emissions were measured with the EUT operating at the lowest, the highest, and a middle channel in the operational band or bands. The EUT was transmitting in the mode which has the highest output power for the band. For each mode, the spectrum was scanned from 150 kHz to 30 MHz. The test setup and procedures were in accordance with ANSI C63.10-2009.

EMC

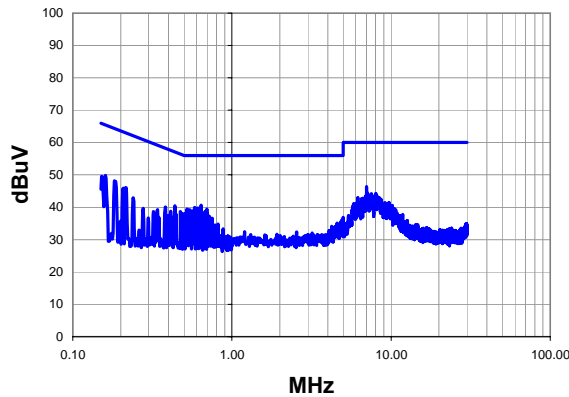
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INMC0575	Date:	08/11/10	<i>Rod Pelouquin</i> Tested by: Rod Pelouquin
Project:	None	Temperature:	22 °C	
Job Site:	EV07	Humidity:	53	
Serial Number:	R11	Barometric Pres.:	1014.8 mb	
EUT:	RC12			
Configuration:	3 - AC Power Conducted Emissions			
Customer:	Intermec Technologies Corporation			
Attendees:	none			
EUT Power:	3.3 VDC from 120VAC			
Operating Mode:	Transmitting, 802.11(a), 6 Mbps, 5150 - 5250 MHz Band, Low Channel 36			
Deviations:	No deviations.			
Comments:	Linear lab power supply			

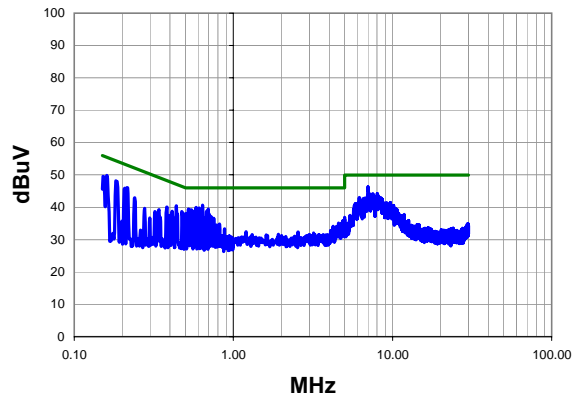
Test Specifications FCC 15.207:2010	Test Method ANSI C63.10:2009
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Run #	13	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
7.010	25.9	20.4	46.3	60.0	-13.7
0.641	20.5	20.2	40.7	56.0	-15.3
0.160	29.7	20.2	49.9	65.5	-15.6
8.020	23.8	20.4	44.2	60.0	-15.8
7.500	23.8	20.4	44.2	60.0	-15.8
0.584	19.8	20.2	40.0	56.0	-16.0
0.609	19.6	20.2	39.8	56.0	-16.2
0.182	28.0	20.2	48.2	64.4	-16.2
0.152	29.4	20.2	49.6	65.9	-16.3
8.160	23.1	20.4	43.5	60.0	-16.5
0.522	19.3	20.2	39.5	56.0	-16.5
0.696	19.3	20.2	39.5	56.0	-16.5
0.437	20.3	20.2	40.5	57.1	-16.6
7.850	22.9	20.4	43.3	60.0	-16.7
0.538	19.0	20.2	39.2	56.0	-16.8
0.546	19.0	20.2	39.2	56.0	-16.8
0.575	18.9	20.2	39.1	56.0	-16.9
0.215	25.9	20.2	46.1	63.0	-17.0
8.340	22.6	20.4	43.0	60.0	-17.0
6.180	22.7	20.3	43.0	60.0	-17.0

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
7.010	25.9	20.4	46.3	50.0	-3.7
0.641	20.5	20.2	40.7	46.0	-5.3
0.160	29.7	20.2	49.9	55.5	-5.6
8.020	23.8	20.4	44.2	50.0	-5.8
7.500	23.8	20.4	44.2	50.0	-5.8
0.584	19.8	20.2	40.0	46.0	-6.0
0.609	19.6	20.2	39.8	46.0	-6.2
0.182	28.0	20.2	48.2	54.4	-6.2
0.152	29.4	20.2	49.6	55.9	-6.3
8.160	23.1	20.4	43.5	50.0	-6.5
0.522	19.3	20.2	39.5	46.0	-6.5
0.696	19.3	20.2	39.5	46.0	-6.5
0.437	20.3	20.2	40.5	47.1	-6.6
7.850	22.9	20.4	43.3	50.0	-6.7
0.538	19.0	20.2	39.2	46.0	-6.8
0.546	19.0	20.2	39.2	46.0	-6.8
0.575	18.9	20.2	39.1	46.0	-6.9
0.215	25.9	20.2	46.1	53.0	-7.0
8.340	22.6	20.4	43.0	50.0	-7.0
6.180	22.7	20.3	43.0	50.0	-7.0

EMC

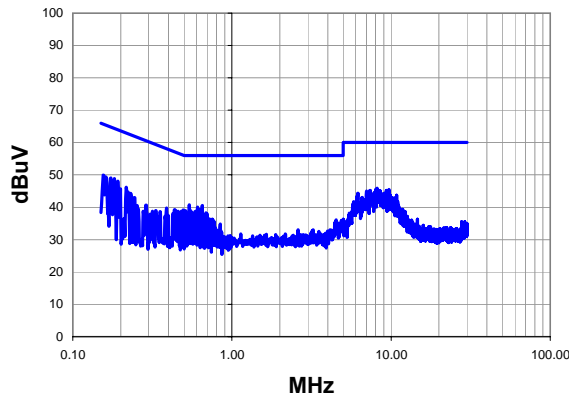
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INMC0575	Date:	08/11/10	<i>Rod Peloquin</i> Tested by: Rod Peloquin
Project:	None	Temperature:	22 °C	
Job Site:	EV07	Humidity:	53	
Serial Number:	R11	Barometric Pres.:	1014.8 mb	
EUT:	RC12			
Configuration:	3 - AC Power Conducted Emissions			
Customer:	Intermec Technologies Corporation			
Attendees:	none			
EUT Power:	3.3 VDC from 120VAC			
Operating Mode:	Transmitting, 802.11(a), 6 Mbps, 5150 - 5250 MHz Band, Low Channel 36			
Deviations:	No deviations.			
Comments:	Linear lab power supply			

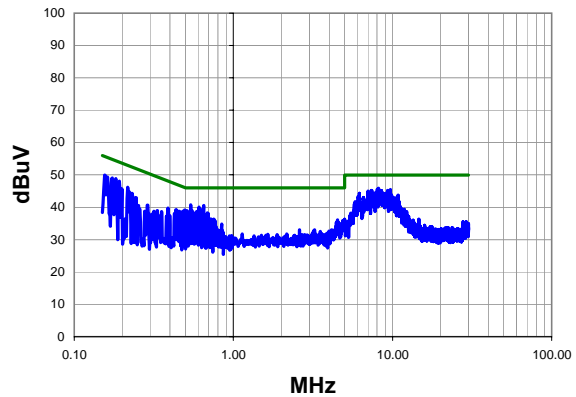
Test Specifications FCC 15.207:2010	Test Method ANSI C63.10:2009
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Run #	14	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
8.180	25.5	20.4	45.9	60.0	-14.1
8.030	25.2	20.4	45.6	60.0	-14.4
9.680	25.1	20.4	45.5	60.0	-14.5
9.340	24.8	20.4	45.2	60.0	-14.8
7.400	24.8	20.4	45.2	60.0	-14.8
7.360	24.8	20.4	45.2	60.0	-14.8
8.480	24.7	20.4	45.1	60.0	-14.9
7.000	24.6	20.4	45.0	60.0	-15.0
0.539	20.6	20.2	40.8	56.0	-15.2
7.820	24.2	20.4	44.6	60.0	-15.4
0.652	20.4	20.2	40.6	56.0	-15.4
7.150	24.1	20.4	44.5	60.0	-15.5
0.182	28.7	20.2	48.9	64.4	-15.5
9.050	23.9	20.4	44.3	60.0	-15.7
8.690	23.9	20.4	44.3	60.0	-15.7
0.174	28.9	20.2	49.1	64.8	-15.7
6.190	24.0	20.3	44.3	60.0	-15.7
0.155	29.8	20.2	50.0	65.7	-15.8
0.193	27.9	20.2	48.1	63.9	-15.9
0.607	19.9	20.2	40.1	56.0	-15.9

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
8.180	25.5	20.4	45.9	50.0	-4.1
8.030	25.2	20.4	45.6	50.0	-4.4
9.680	25.1	20.4	45.5	50.0	-4.5
9.340	24.8	20.4	45.2	50.0	-4.8
7.400	24.8	20.4	45.2	50.0	-4.8
7.360	24.8	20.4	45.2	50.0	-4.8
8.480	24.7	20.4	45.1	50.0	-4.9
7.000	24.6	20.4	45.0	50.0	-5.0
0.539	20.6	20.2	40.8	46.0	-5.2
7.820	24.2	20.4	44.6	50.0	-5.4
0.652	20.4	20.2	40.6	46.0	-5.4
7.150	24.1	20.4	44.5	50.0	-5.5
0.182	28.7	20.2	48.9	54.4	-5.5
9.050	23.9	20.4	44.3	50.0	-5.7
8.690	23.9	20.4	44.3	50.0	-5.7
0.174	28.9	20.2	49.1	54.8	-5.7
6.190	24.0	20.3	44.3	50.0	-5.7
0.155	29.8	20.2	50.0	55.7	-5.8
0.193	27.9	20.2	48.1	53.9	-5.9
0.607	19.9	20.2	40.1	46.0	-5.9

EMC

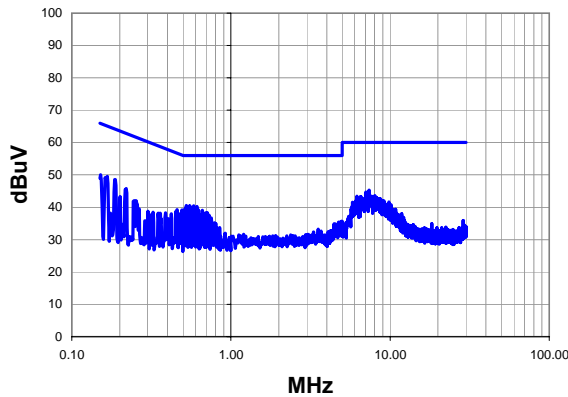
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INMC0575	Date:	08/11/10	<i>Rod Pelouquin</i>
Project:	None	Temperature:	22 °C	
Job Site:	EV07	Humidity:	53	
Serial Number:	R11	Barometric Pres.:	1014.8 mb	
EUT:	RC12			
Configuration:	3 - AC Power Conducted Emissions			
Customer:	Intermec Technologies Corporation			
Attendees:	none			
EUT Power:	3.3 VDC from 120VAC			
Operating Mode:	Transmitting, 802.11(a), 6 Mbps, 5150 - 5250 MHz Band, High Channel 48			
Deviations:	No deviations.			
Comments:	Linear lab power supply			

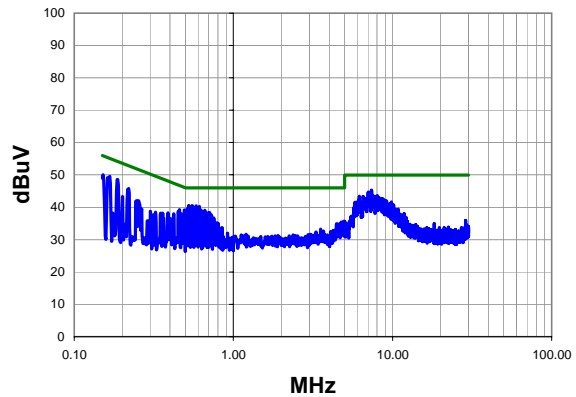
Test Specifications FCC 15.207:2010	Test Method ANSI C63.10:2009
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Run #	15	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
7.370	24.9	20.4	45.3	60.0	-14.7
7.040	24.3	20.4	44.7	60.0	-15.3
0.526	20.4	20.2	40.6	56.0	-15.4
0.551	20.3	20.2	40.5	56.0	-15.5
0.584	20.3	20.2	40.5	56.0	-15.5
0.167	29.4	20.2	49.6	65.1	-15.5
0.186	28.4	20.2	48.6	64.2	-15.7
0.611	20.1	20.2	40.3	56.0	-15.7
0.152	29.9	20.2	50.1	65.9	-15.8
0.561	19.8	20.2	40.0	56.0	-16.0
0.517	19.6	20.2	39.8	56.0	-16.2
0.590	19.5	20.2	39.7	56.0	-16.3
8.030	23.2	20.4	43.6	60.0	-16.4
6.180	23.1	20.3	43.4	60.0	-16.6
6.520	23.0	20.3	43.3	60.0	-16.7
0.626	19.0	20.2	39.2	56.0	-16.8
7.890	22.7	20.4	43.1	60.0	-16.9
0.662	18.9	20.2	39.1	56.0	-16.9
0.493	19.0	20.2	39.2	56.1	-16.9
8.210	22.6	20.4	43.0	60.0	-17.0

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
7.370	24.9	20.4	45.3	50.0	-4.7
7.040	24.3	20.4	44.7	50.0	-5.3
0.526	20.4	20.2	40.6	46.0	-5.4
0.551	20.3	20.2	40.5	46.0	-5.5
0.584	20.3	20.2	40.5	46.0	-5.5
0.167	29.4	20.2	49.6	55.1	-5.5
0.186	28.4	20.2	48.6	54.2	-5.7
0.611	20.1	20.2	40.3	46.0	-5.7
0.152	29.9	20.2	50.1	55.9	-5.8
0.561	19.8	20.2	40.0	46.0	-6.0
0.517	19.6	20.2	39.8	46.0	-6.2
0.590	19.5	20.2	39.7	46.0	-6.3
8.030	23.2	20.4	43.6	50.0	-6.4
6.180	23.1	20.3	43.4	50.0	-6.6
6.520	23.0	20.3	43.3	50.0	-6.7
0.626	19.0	20.2	39.2	46.0	-6.8
7.890	22.7	20.4	43.1	50.0	-6.9
0.662	18.9	20.2	39.1	46.0	-6.9
0.493	19.0	20.2	39.2	46.1	-6.9
8.210	22.6	20.4	43.0	50.0	-7.0

EMC

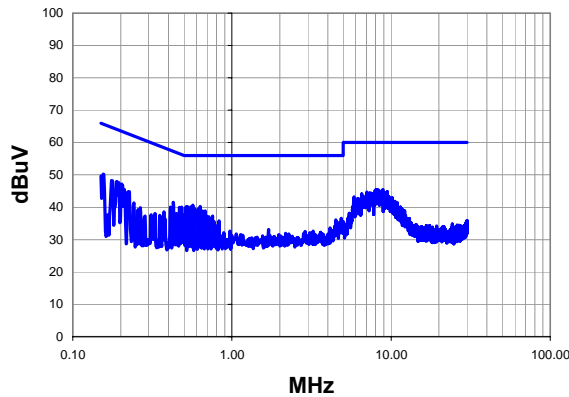
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INMC0575	Date:	08/11/10	<i>Rod Pelouquin</i>
Project:	None	Temperature:	22 °C	
Job Site:	EV07	Humidity:	53	
Serial Number:	R11	Barometric Pres.:	1014.8 mb	
EUT:	RC12			
Configuration:	3 - AC Power Conducted Emissions			
Customer:	Intermec Technologies Corporation			
Attendees:	none			
EUT Power:	3.3 VDC from 120VAC			
Operating Mode:	Transmitting, 802.11(a), 6 Mbps, 5150 - 5250 MHz Band, High Channel 48			
Deviations:	No deviations.			
Comments:	Linear lab power supply			

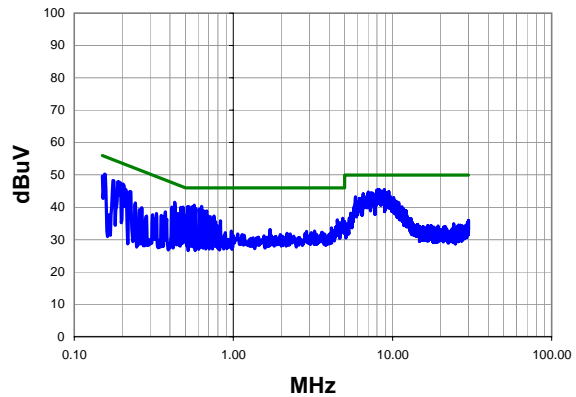
Test Specifications FCC 15.207:2010	Test Method ANSI C63.10:2009
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Run #	16	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
8.860	25.1	20.4	45.5	60.0	-14.5
8.140	25.1	20.4	45.5	60.0	-14.5
8.270	25.0	20.4	45.4	60.0	-14.6
7.930	24.9	20.4	45.3	60.0	-14.7
8.490	24.6	20.4	45.0	60.0	-15.0
9.470	24.4	20.4	44.8	60.0	-15.2
7.030	24.3	20.4	44.7	60.0	-15.3
0.568	20.5	20.2	40.7	56.0	-15.3
0.155	30.1	20.2	50.3	65.7	-15.5
8.980	24.1	20.4	44.5	60.0	-15.5
8.670	24.1	20.4	44.5	60.0	-15.5
7.360	24.1	20.4	44.5	60.0	-15.5
9.320	24.0	20.4	44.4	60.0	-15.6
9.210	24.0	20.4	44.4	60.0	-15.6
7.510	23.9	20.4	44.3	60.0	-15.7
0.429	21.4	20.2	41.6	57.3	-15.7
0.633	20.1	20.2	40.3	56.0	-15.7
0.526	20.0	20.2	40.2	56.0	-15.8
0.553	20.0	20.2	40.2	56.0	-15.8
0.516	20.0	20.2	40.2	56.0	-15.8

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
8.860	25.1	20.4	45.5	50.0	-4.5
8.140	25.1	20.4	45.5	50.0	-4.5
8.270	25.0	20.4	45.4	50.0	-4.6
7.930	24.9	20.4	45.3	50.0	-4.7
8.490	24.6	20.4	45.0	50.0	-5.0
9.470	24.4	20.4	44.8	50.0	-5.2
7.030	24.3	20.4	44.7	50.0	-5.3
0.568	20.5	20.2	40.7	46.0	-5.3
0.155	30.1	20.2	50.3	55.7	-5.5
8.980	24.1	20.4	44.5	50.0	-5.5
8.670	24.1	20.4	44.5	50.0	-5.5
7.360	24.1	20.4	44.5	50.0	-5.5
9.320	24.0	20.4	44.4	50.0	-5.6
9.210	24.0	20.4	44.4	50.0	-5.6
7.510	23.9	20.4	44.3	50.0	-5.7
0.429	21.4	20.2	41.6	47.3	-5.7
0.633	20.1	20.2	40.3	46.0	-5.7
0.526	20.0	20.2	40.2	46.0	-5.8
0.553	20.0	20.2	40.2	46.0	-5.8
0.516	20.0	20.2	40.2	46.0	-5.8

EMC

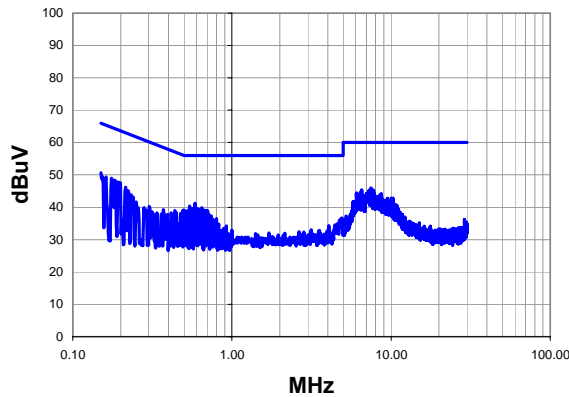
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INMC0575	Date:	08/11/10	<i>Rod Pelouquin</i> Tested by: Rod Pelouquin
Project:	None	Temperature:	22 °C	
Job Site:	EV07	Humidity:	53	
Serial Number:	R11	Barometric Pres.:	1014.8 mb	
EUT:	RC12			
Configuration:	3 - AC Power Conducted Emissions			
Customer:	Intermec Technologies Corporation			
Attendees:	none			
EUT Power:	3.3 VDC from 120VAC			
Operating Mode:	Transmitting. 802.11(a), 6 Mbps, 5250 - 5350 MHz Band, Low Channel 52			
Deviations:	No deviations.			
Comments:	Linear lab power supply			

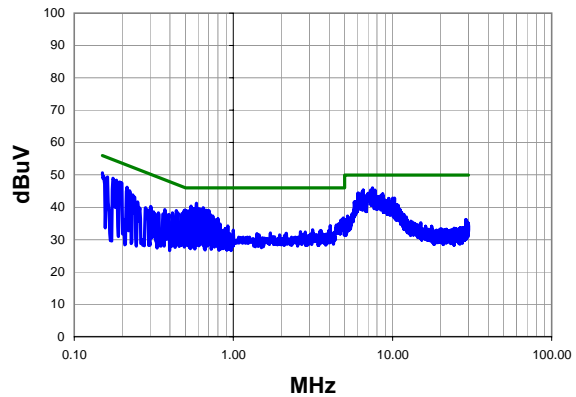
Test Specifications FCC 15.207:2010	Test Method ANSI C63.10:2009
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Run #	17	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
7.490	25.6	20.4	46.0	60.0	-14.0
6.540	25.0	20.3	45.3	60.0	-14.7
7.780	24.9	20.4	45.3	60.0	-14.7
7.270	24.9	20.4	45.3	60.0	-14.7
0.585	21.1	20.2	41.3	56.0	-14.7
6.440	24.5	20.3	44.8	60.0	-15.2
0.150	30.5	20.2	50.7	66.0	-15.3
7.160	24.0	20.4	44.4	60.0	-15.6
0.541	20.2	20.2	40.4	56.0	-15.6
6.110	24.1	20.3	44.4	60.0	-15.6
0.176	28.8	20.2	49.0	64.7	-15.7
8.680	23.7	20.4	44.1	60.0	-15.9
0.184	28.2	20.2	48.4	64.3	-15.9
0.162	29.2	20.2	49.4	65.4	-16.0
0.646	19.7	20.2	39.9	56.0	-16.1
0.198	27.4	20.2	47.6	63.7	-16.2
0.193	27.6	20.2	47.8	63.9	-16.2
0.553	19.5	20.2	39.7	56.0	-16.3
0.599	19.5	20.2	39.7	56.0	-16.3
0.565	19.4	20.2	39.6	56.0	-16.4

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
7.490	25.6	20.4	46.0	50.0	-4.0
6.540	25.0	20.3	45.3	50.0	-4.7
7.780	24.9	20.4	45.3	50.0	-4.7
7.270	24.9	20.4	45.3	50.0	-4.7
0.585	21.1	20.2	41.3	46.0	-4.7
6.440	24.5	20.3	44.8	50.0	-5.2
0.150	30.5	20.2	50.7	56.0	-5.3
7.160	24.0	20.4	44.4	50.0	-5.6
0.541	20.2	20.2	40.4	46.0	-5.6
6.110	24.1	20.3	44.4	50.0	-5.6
0.176	28.8	20.2	49.0	54.7	-5.7
8.680	23.7	20.4	44.1	50.0	-5.9
0.184	28.2	20.2	48.4	54.3	-5.9
0.162	29.2	20.2	49.4	55.4	-6.0
0.646	19.7	20.2	39.9	46.0	-6.1
0.198	27.4	20.2	47.6	53.7	-6.2
0.193	27.6	20.2	47.8	53.9	-6.2
0.553	19.5	20.2	39.7	46.0	-6.3
0.599	19.5	20.2	39.7	46.0	-6.3
0.565	19.4	20.2	39.6	46.0	-6.4

EMC

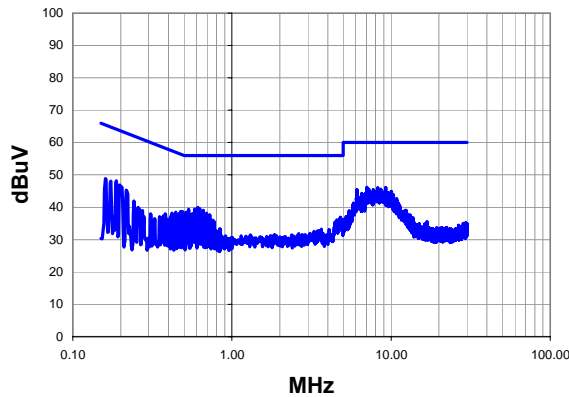
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INMC0575	Date:	08/11/10	<i>Rod Peloquin</i>
Project:	None	Temperature:	22 °C	
Job Site:	EV07	Humidity:	53	
Serial Number:	R11	Barometric Pres.:	1014.8 mb	
EUT:	RC12			
Configuration:	3 - AC Power Conducted Emissions			
Customer:	Intermec Technologies Corporation			
Attendees:	none			
EUT Power:	3.3 VDC from 120VAC			
Operating Mode:	Transmitting, 802.11(a), 6 Mbps, 5250 - 5350 MHz Band, Low Channel 52			
Deviations:	No deviations.			
Comments:	Linear lab power supply			

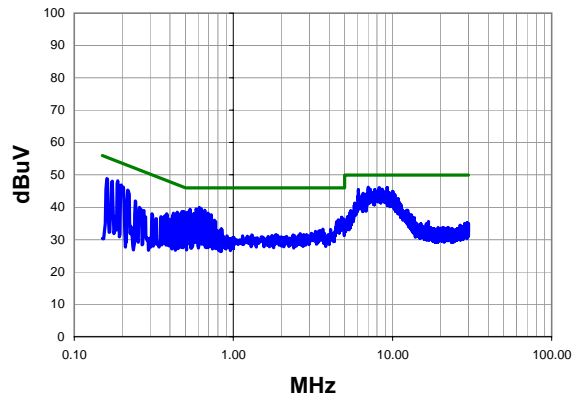
Test Specifications FCC 15.207:2010	Test Method ANSI C63.10:2009
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Run #	18	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
7.030	25.8	20.4	46.2	60.0	-13.8
9.250	25.7	20.4	46.1	60.0	-13.9
8.230	25.7	20.4	46.1	60.0	-13.9
8.610	25.2	20.4	45.6	60.0	-14.4
7.250	25.2	20.4	45.6	60.0	-14.4
7.730	25.0	20.4	45.4	60.0	-14.6
6.100	25.1	20.3	45.4	60.0	-14.6
7.180	24.7	20.4	45.1	60.0	-14.9
10.040	24.5	20.4	44.9	60.0	-15.1
8.010	24.5	20.4	44.9	60.0	-15.1
8.950	24.2	20.4	44.6	60.0	-15.4
9.500	24.1	20.4	44.5	60.0	-15.5
7.110	24.1	20.4	44.5	60.0	-15.5
6.530	24.0	20.3	44.3	60.0	-15.7
9.870	23.7	20.4	44.1	60.0	-15.9
9.740	23.7	20.4	44.1	60.0	-15.9
0.187	28.0	20.2	48.2	64.2	-16.0
0.611	19.8	20.2	40.0	56.0	-16.0
10.350	23.4	20.4	43.8	60.0	-16.2
0.628	19.4	20.2	39.6	56.0	-16.4

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
7.030	25.8	20.4	46.2	50.0	-3.8
9.250	25.7	20.4	46.1	50.0	-3.9
8.230	25.7	20.4	46.1	50.0	-3.9
8.610	25.2	20.4	45.6	50.0	-4.4
7.250	25.2	20.4	45.6	50.0	-4.4
7.730	25.0	20.4	45.4	50.0	-4.6
6.100	25.1	20.3	45.4	50.0	-4.6
7.180	24.7	20.4	45.1	50.0	-4.9
10.040	24.5	20.4	44.9	50.0	-5.1
8.010	24.5	20.4	44.9	50.0	-5.1
8.950	24.2	20.4	44.6	50.0	-5.4
9.500	24.1	20.4	44.5	50.0	-5.5
7.110	24.1	20.4	44.5	50.0	-5.5
6.530	24.0	20.3	44.3	50.0	-5.7
9.870	23.7	20.4	44.1	50.0	-5.9
9.740	23.7	20.4	44.1	50.0	-5.9
0.187	28.0	20.2	48.2	54.2	-6.0
0.611	19.8	20.2	40.0	46.0	-6.0
10.350	23.4	20.4	43.8	50.0	-6.2
0.628	19.4	20.2	39.6	46.0	-6.4

EMC

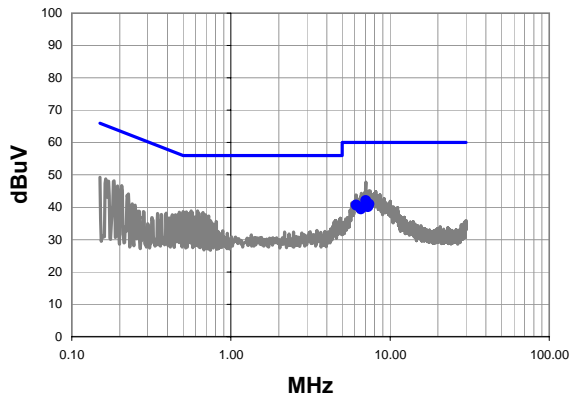
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INMC0575	Date:	08/11/10	<i>Rodry la Feliu</i>
Project:	None	Temperature:	22 °C	
Job Site:	EV07	Humidity:	53	
Serial Number:	R11	Barometric Pres.:	1014.8 mb	
EUT:	RC12			
Configuration:	3 - AC Power Conducted Emissions			
Customer:	Intermec Technologies Corporation			
Attendees:	none			
EUT Power:	3.3 VDC from 120VAC			
Operating Mode:	Transmitting. 802.11(a), 6 Mbps, 5250 - 5350 MHz Band, High Channel 64			
Deviations:	No deviations.			
Comments:	Linear lab power supply			

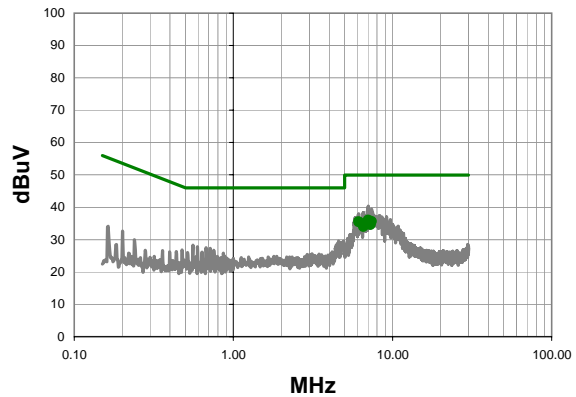
Test Specifications FCC 15.207:2010	Test Method ANSI C63.10:2009
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Run #	19	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
7.034	21.6	20.4	42.0	60.0	-18.0
7.386	20.5	20.4	40.9	60.0	-19.1
6.120	20.4	20.3	40.7	60.0	-19.3
6.952	20.1	20.4	40.5	60.0	-19.5
7.278	19.8	20.4	40.2	60.0	-19.8
6.574	19.1	20.3	39.4	60.0	-20.6

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
7.034	15.6	20.4	36.0	50.0	-14.0
7.386	15.2	20.4	35.6	50.0	-14.4
6.120	15.2	20.3	35.5	50.0	-14.5
6.952	14.7	20.4	35.1	50.0	-14.9
7.278	14.2	20.4	34.6	50.0	-15.4
6.574	13.7	20.3	34.0	50.0	-16.0

EMC

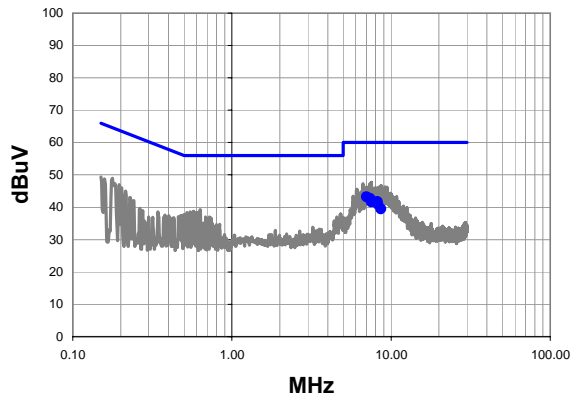
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INMC0575	Date:	08/11/10	<i>Rod Pelouquin</i>
Project:	None	Temperature:	22 °C	
Job Site:	EV07	Humidity:	53	
Serial Number:	R11	Barometric Pres.:	1014.8 mb	
EUT:	RC12			
Configuration:	3 - AC Power Conducted Emissions			
Customer:	Intermec Technologies Corporation			
Attendees:	none			
EUT Power:	3.3 VDC from 120VAC			
Operating Mode:	Transmitting, 802.11(a), 6 Mbps, 5250 - 5350 MHz Band, High Channel 64			
Deviations:	No deviations.			
Comments:	Linear lab power supply			

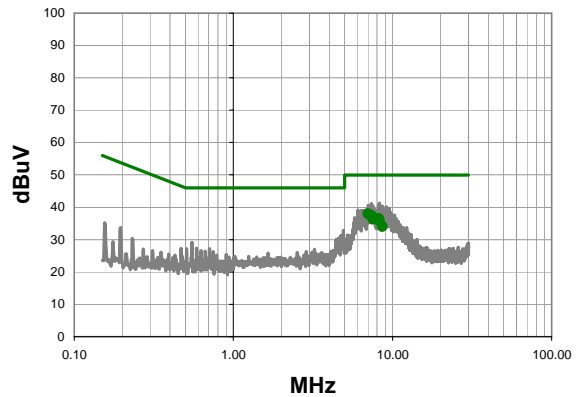
Test Specifications FCC 15.207:2010	Test Method ANSI C63.10:2009
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Run #	20	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
7.028	22.8	20.4	43.2	60.0	-16.8
7.392	22.3	20.4	42.7	60.0	-17.3
8.202	21.3	20.4	41.7	60.0	-18.3
7.518	21.2	20.4	41.6	60.0	-18.4
8.288	20.4	20.4	40.8	60.0	-19.2
8.622	19.1	20.4	39.5	60.0	-20.5

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
7.028	17.6	20.4	38.0	50.0	-12.0
7.392	17.0	20.4	37.4	50.0	-12.6
8.202	16.1	20.4	36.5	50.0	-13.5
7.518	15.9	20.4	36.3	50.0	-13.7
8.288	15.4	20.4	35.8	50.0	-14.2
8.622	13.6	20.4	34.0	50.0	-16.0

EMC

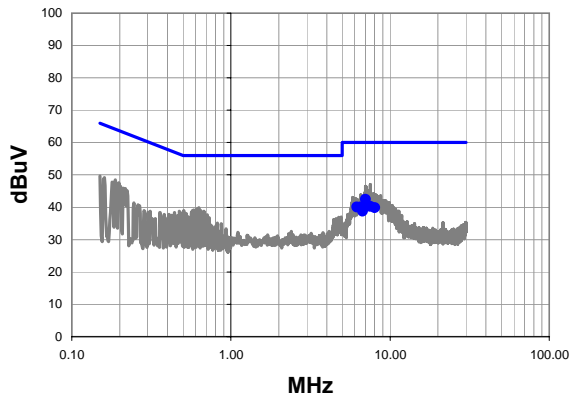
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INMC0575	Date:	08/11/10	<i>Rod Pelouquin</i> Tested by: Rod Pelouquin
Project:	None	Temperature:	22 °C	
Job Site:	EV07	Humidity:	53	
Serial Number:	R11	Barometric Pres.:	1014.8 mb	
EUT:	RC12			
Configuration:	3 - AC Power Conducted Emissions			
Customer:	Intermec Technologies Corporation			
Attendees:	none			
EUT Power:	3.3 VDC from 120VAC			
Operating Mode:	Transmitting, 802.11(a), 6 Mbps, 5470 - 5725 MHz Band, Low Channel 100			
Deviations:	No deviations.			
Comments:	Linear lab power supply			

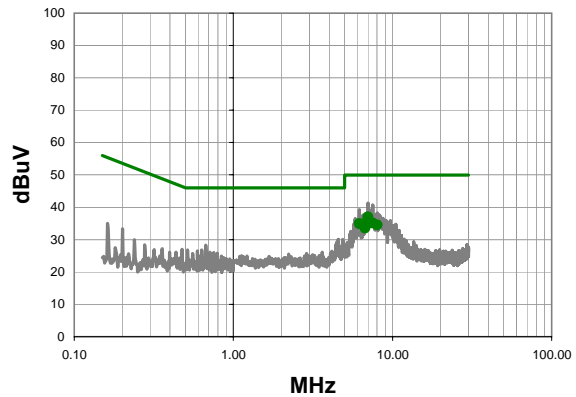
Test Specifications FCC 15.207:2010	Test Method ANSI C63.10:2009
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Run #	21	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
7.018	22.0	20.4	42.4	60.0	-17.6
7.512	19.9	20.4	40.3	60.0	-19.7
6.184	19.8	20.3	40.1	60.0	-19.9
6.532	19.7	20.3	40.0	60.0	-20.0
8.018	19.5	20.4	39.9	60.0	-20.1
6.738	18.4	20.4	38.8	60.0	-21.2

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
7.018	16.6	20.4	37.0	50.0	-13.0
7.512	14.7	20.4	35.1	50.0	-14.9
6.184	14.6	20.3	34.9	50.0	-15.1
6.532	14.5	20.3	34.8	50.0	-15.2
8.018	14.1	20.4	34.5	50.0	-15.5
6.738	13.2	20.4	33.6	50.0	-16.4

EMC

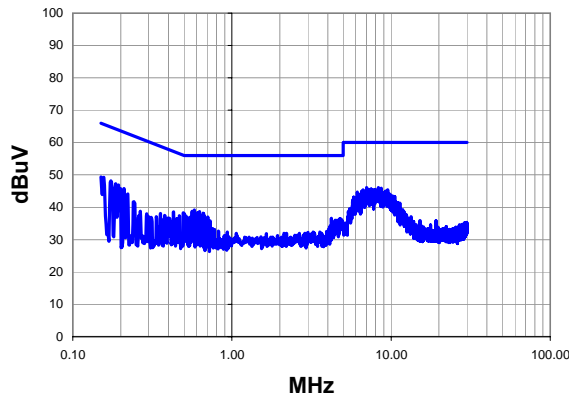
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INMC0575	Date:	08/11/10	<i>Rod Peloquin</i>
Project:	None	Temperature:	22 °C	
Job Site:	EV07	Humidity:	53	
Serial Number:	R11	Barometric Pres.:	1014.8 mb	
EUT:	RC12			
Configuration:	3 - AC Power Conducted Emissions			
Customer:	Intermec Technologies Corporation			
Attendees:	none			
EUT Power:	3.3 VDC from 120VAC			
Operating Mode:	Transmitting, 802.11(a), 6 Mbps, 5470 - 5725 MHz Band, Low Channel 100			
Deviations:	No deviations.			
Comments:	Linear lab power supply			

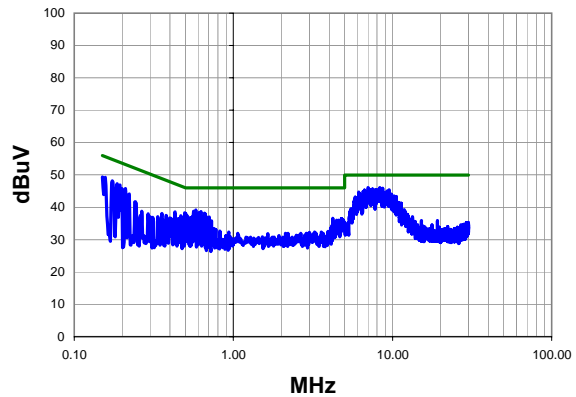
Test Specifications FCC 15.207:2010	Test Method ANSI C63.10:2009
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Run #	22	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
8.340	25.7	20.4	46.1	60.0	-13.9
7.020	25.7	20.4	46.1	60.0	-13.9
8.660	25.5	20.4	45.9	60.0	-14.1
7.520	25.2	20.4	45.6	60.0	-14.4
7.430	25.2	20.4	45.6	60.0	-14.4
7.850	25.1	20.4	45.5	60.0	-14.5
8.540	25.1	20.4	45.5	60.0	-14.5
9.540	25.0	20.4	45.4	60.0	-14.6
6.660	25.0	20.3	45.3	60.0	-14.7
7.990	24.9	20.4	45.3	60.0	-14.7
8.190	24.8	20.4	45.2	60.0	-14.8
9.200	24.6	20.4	45.0	60.0	-15.0
9.330	24.5	20.4	44.9	60.0	-15.1
6.540	24.6	20.3	44.9	60.0	-15.1
6.140	24.4	20.3	44.7	60.0	-15.3
8.990	24.1	20.4	44.5	60.0	-15.5
6.210	23.9	20.3	44.2	60.0	-15.8
9.830	23.6	20.4	44.0	60.0	-16.0
6.750	23.4	20.4	43.8	60.0	-16.2
0.157	29.1	20.2	49.3	65.6	-16.4

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
8.340	25.7	20.4	46.1	50.0	-3.9
7.020	25.7	20.4	46.1	50.0	-3.9
8.660	25.5	20.4	45.9	50.0	-4.1
7.520	25.2	20.4	45.6	50.0	-4.4
7.430	25.2	20.4	45.6	50.0	-4.4
7.850	25.1	20.4	45.5	50.0	-4.5
8.540	25.1	20.4	45.5	50.0	-4.5
9.540	25.0	20.4	45.4	50.0	-4.6
6.660	25.0	20.3	45.3	50.0	-4.7
7.990	24.9	20.4	45.3	50.0	-4.7
8.190	24.8	20.4	45.2	50.0	-4.8
9.200	24.6	20.4	45.0	50.0	-5.0
9.330	24.5	20.4	44.9	50.0	-5.1
6.540	24.6	20.3	44.9	50.0	-5.1
6.140	24.4	20.3	44.7	50.0	-5.3
8.990	24.1	20.4	44.5	50.0	-5.5
6.210	23.9	20.3	44.2	50.0	-5.8
9.830	23.6	20.4	44.0	50.0	-6.0
6.750	23.4	20.4	43.8	50.0	-6.2
0.157	29.1	20.2	49.3	55.6	-6.4

EMC

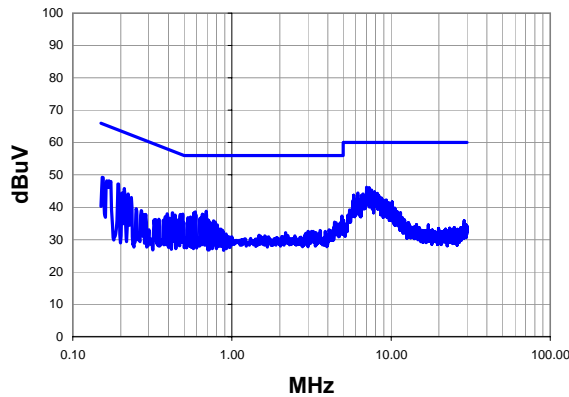
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INMC0575	Date:	08/11/10	<i>Rod Pelouquin</i> Tested by: Rod Pelouquin
Project:	None	Temperature:	22 °C	
Job Site:	EV07	Humidity:	53	
Serial Number:	R11	Barometric Pres.:	1014.8 mb	
EUT:	RC12			
Configuration:	3 - AC Power Conducted Emissions			
Customer:	Intermec Technologies Corporation			
Attendees:	none			
EUT Power:	3.3 VDC from 120VAC			
Operating Mode:	Transmitting. 802.11(a), 6 Mbps, 5470 - 5725 MHz Band, Mid Channel 116			
Deviations:	No deviations.			
Comments:	Linear lab power supply			

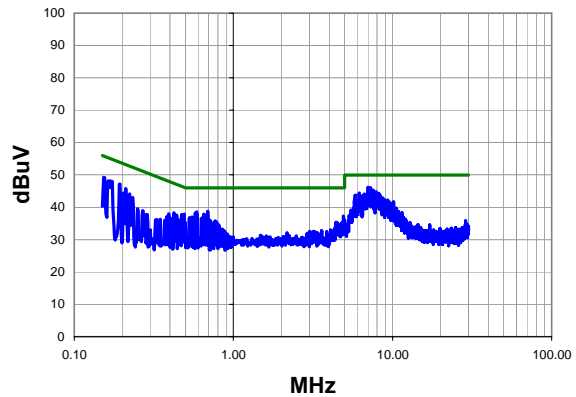
Test Specifications FCC 15.207:2010	Test Method ANSI C63.10:2009
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Run #	23	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
7.020	25.8	20.4	46.2	60.0	-13.8
7.260	25.7	20.4	46.1	60.0	-13.9
7.540	24.9	20.4	45.3	60.0	-14.7
7.370	24.8	20.4	45.2	60.0	-14.8
7.880	24.3	20.4	44.7	60.0	-15.3
6.180	24.1	20.3	44.4	60.0	-15.6
8.000	23.9	20.4	44.3	60.0	-15.7
8.220	23.9	20.4	44.3	60.0	-15.7
6.670	23.8	20.3	44.1	60.0	-15.9
6.520	23.4	20.3	43.7	60.0	-16.3
7.670	23.3	20.4	43.7	60.0	-16.3
5.830	23.4	20.3	43.7	60.0	-16.3
8.360	23.2	20.4	43.6	60.0	-16.4
0.153	29.1	20.2	49.3	65.8	-16.6
0.193	27.0	20.2	47.2	63.9	-16.8
8.690	22.5	20.4	42.9	60.0	-17.1
0.164	28.0	20.2	48.2	65.3	-17.1
0.691	18.6	20.2	38.8	56.0	-17.2
0.211	25.6	20.2	45.8	63.2	-17.4
0.589	18.4	20.2	38.6	56.0	-17.4

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
7.020	25.8	20.4	46.2	50.0	-3.8
7.260	25.7	20.4	46.1	50.0	-3.9
7.540	24.9	20.4	45.3	50.0	-4.7
7.370	24.8	20.4	45.2	50.0	-4.8
7.880	24.3	20.4	44.7	50.0	-5.3
6.180	24.1	20.3	44.4	50.0	-5.6
8.000	23.9	20.4	44.3	50.0	-5.7
8.220	23.9	20.4	44.3	50.0	-5.7
6.670	23.8	20.3	44.1	50.0	-5.9
6.520	23.4	20.3	43.7	50.0	-6.3
7.670	23.3	20.4	43.7	50.0	-6.3
5.830	23.4	20.3	43.7	50.0	-6.3
8.360	23.2	20.4	43.6	50.0	-6.4
0.153	29.1	20.2	49.3	55.8	-6.6
0.193	27.0	20.2	47.2	53.9	-6.8
8.690	22.5	20.4	42.9	50.0	-7.1
0.164	28.0	20.2	48.2	55.3	-7.1
0.691	18.6	20.2	38.8	46.0	-7.2
0.211	25.6	20.2	45.8	53.2	-7.4
0.589	18.4	20.2	38.6	46.0	-7.4

EMC

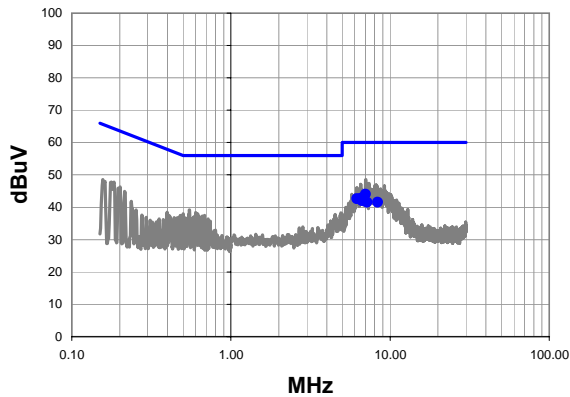
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INMC0575	Date:	08/11/10	<i>Rod Pelouquin</i>
Project:	None	Temperature:	22 °C	
Job Site:	EV07	Humidity:	53	
Serial Number:	R11	Barometric Pres.:	1014.8 mb	
EUT:	RC12			
Configuration:	3 - AC Power Conducted Emissions			
Customer:	Intermec Technologies Corporation			
Attendees:	none			
EUT Power:	3.3 VDC from 120VAC			
Operating Mode:	Transmitting, 802.11(a), 6 Mbps, 5470 - 5725 MHz Band, Mid Channel 116			
Deviations:	No deviations.			
Comments:	Linear lab power supply			

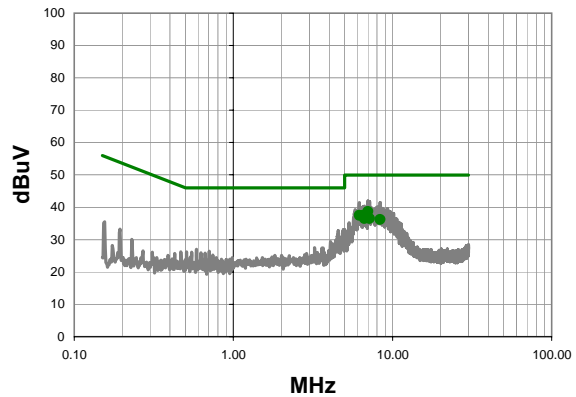
Test Specifications FCC 15.207:2010	Test Method ANSI C63.10:2009
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Run #	24	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
7.018	23.6	20.4	44.0	60.0	-16.0
6.540	22.4	20.3	42.7	60.0	-17.3
6.184	22.4	20.3	42.7	60.0	-17.3
6.666	21.7	20.3	42.0	60.0	-18.0
8.352	21.1	20.4	41.5	60.0	-18.5
7.168	21.1	20.4	41.5	60.0	-18.5

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
7.018	18.3	20.4	38.7	50.0	-11.3
6.540	17.2	20.3	37.5	50.0	-12.5
6.184	17.2	20.3	37.5	50.0	-12.5
6.666	16.2	20.3	36.5	50.0	-13.5
7.168	16.1	20.4	36.5	50.0	-13.5
8.352	15.8	20.4	36.2	50.0	-13.8

EMC

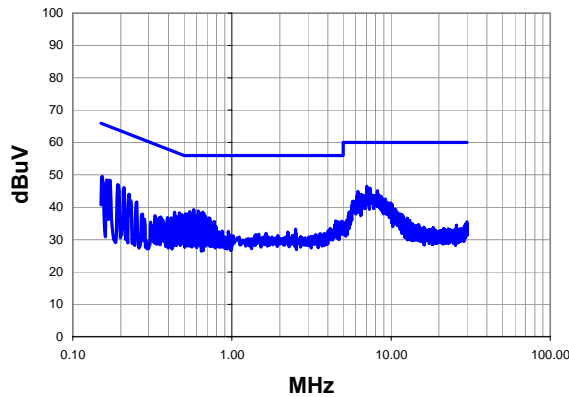
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INMC0575	Date:	08/11/10	<i>Rod Pelouquin</i>
Project:	None	Temperature:	22 °C	
Job Site:	EV07	Humidity:	53	
Serial Number:	R11	Barometric Pres.:	1014.8 mb	
EUT:	RC12			
Configuration:	3 - AC Power Conducted Emissions			
Customer:	Intermec Technologies Corporation			
Attendees:	none			
EUT Power:	3.3 VDC from 120VAC			
Operating Mode:	Transmitting. 802.11(a), 6 Mbps, 5470 - 5725 MHz Band, High Channel 140			
Deviations:	No deviations.			
Comments:	Linear lab power supply			

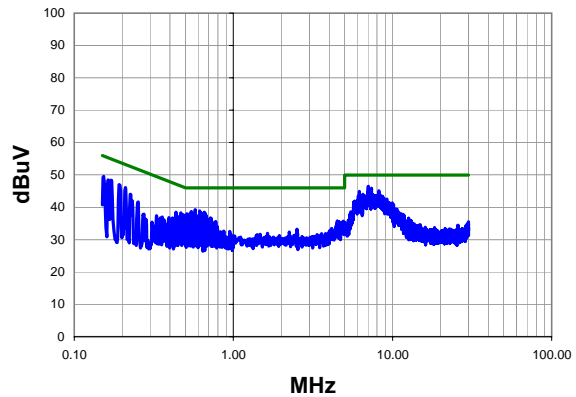
Test Specifications FCC 15.207:2010	Test Method ANSI C63.10:2009
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Run #	25	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
7.030	26.1	20.4	46.5	60.0	-13.5
7.370	25.5	20.4	45.9	60.0	-14.1
8.190	24.7	20.4	45.1	60.0	-14.9
6.200	24.6	20.3	44.9	60.0	-15.1
6.520	23.7	20.3	44.0	60.0	-16.0
0.153	29.4	20.2	49.6	65.8	-16.3
6.660	23.2	20.3	43.5	60.0	-16.5
7.990	23.1	20.4	43.5	60.0	-16.5
8.500	23.1	20.4	43.5	60.0	-16.5
6.090	23.2	20.3	43.5	60.0	-16.5
0.170	28.2	20.2	48.4	64.9	-16.6
8.690	22.9	20.4	43.3	60.0	-16.7
0.577	19.1	20.2	39.3	56.0	-16.7
0.164	28.3	20.2	48.5	65.3	-16.8
0.191	26.8	20.2	47.0	64.0	-17.0
0.614	18.7	20.2	38.9	56.0	-17.1
0.210	25.9	20.2	46.1	63.2	-17.2
0.544	18.5	20.2	38.7	56.0	-17.3
9.200	22.1	20.4	42.5	60.0	-17.5
8.840	22.1	20.4	42.5	60.0	-17.5

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
7.030	26.1	20.4	46.5	50.0	-3.5
7.370	25.5	20.4	45.9	50.0	-4.1
8.190	24.7	20.4	45.1	50.0	-4.9
6.200	24.6	20.3	44.9	50.0	-5.1
6.520	23.7	20.3	44.0	50.0	-6.0
0.153	29.4	20.2	49.6	55.8	-6.3
6.660	23.2	20.3	43.5	50.0	-6.5
7.990	23.1	20.4	43.5	50.0	-6.5
8.500	23.1	20.4	43.5	50.0	-6.5
6.090	23.2	20.3	43.5	50.0	-6.5
0.170	28.2	20.2	48.4	54.9	-6.6
8.690	22.9	20.4	43.3	50.0	-6.7
0.577	19.1	20.2	39.3	46.0	-6.7
0.164	28.3	20.2	48.5	55.3	-6.8
0.191	26.8	20.2	47.0	54.0	-7.0
0.614	18.7	20.2	38.9	46.0	-7.1
0.210	25.9	20.2	46.1	53.2	-7.2
0.544	18.5	20.2	38.7	46.0	-7.3
9.200	22.1	20.4	42.5	50.0	-7.5
8.840	22.1	20.4	42.5	50.0	-7.5

EMC

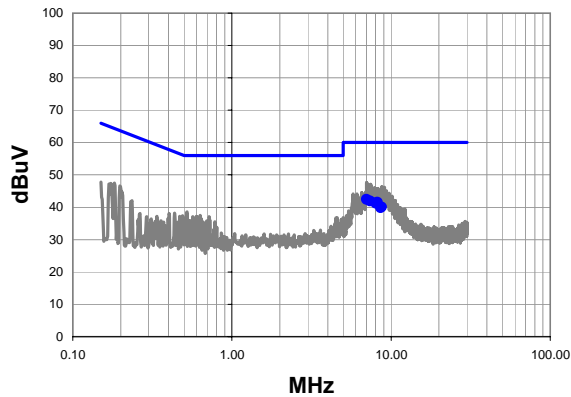
AC POWERLINE CONDUCTED EMISSIONS

Work Order:	INMC0575	Date:	08/11/10	<i>Roddy in Pelouin</i>
Project:	None	Temperature:	22 °C	
Job Site:	EV07	Humidity:	53	
Serial Number:	R11	Barometric Pres.:	1014.8 mb	
EUT:	RC12			
Configuration:	3 - AC Power Conducted Emissions			
Customer:	Intermec Technologies Corporation			
Attendees:	none			
EUT Power:	3.3 VDC from 120VAC			
Operating Mode:	Transmitting. 802.11(a), 6 Mbps, 5470 - 5725 MHz Band, High Channel 140			
Deviations:	No deviations.			
Comments:	Linear lab power supply			

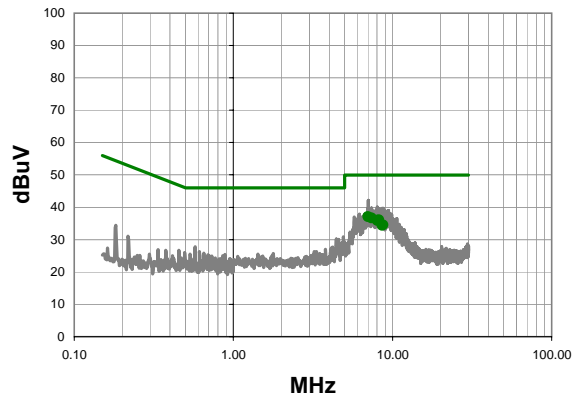
Test Specifications FCC 15.207:2010	Test Method ANSI C63.10:2009
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Run #	26	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
7.028	22.0	20.4	42.4	60.0	-17.6
7.388	21.5	20.4	41.9	60.0	-18.1
8.202	21.1	20.4	41.5	60.0	-18.5
8.012	20.8	20.4	41.2	60.0	-18.8
8.728	19.6	20.4	40.0	60.0	-20.0
8.596	19.5	20.4	39.9	60.0	-20.1

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted (dBuV)	Spec. Limit (dBuV)	Compared to Spec. (dB)
7.028	16.7	20.4	37.1	50.0	-12.9
7.388	16.3	20.4	36.7	50.0	-13.3
8.202	15.7	20.4	36.1	50.0	-13.9
8.012	15.5	20.4	35.9	50.0	-14.1
8.728	14.1	20.4	34.5	50.0	-15.5
8.596	14.0	20.4	34.4	50.0	-15.6

