Spectrum Technology, Inc.

IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio

January 14, 2008

Report No. SPTE0070

Report Prepared By

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

EMC Test Report

NORTHWEST EMC

22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test

Issue Date: January 14, 2008
Spectrum Technology, Inc.
Model: IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio

Emissions			
Test Description	**Specification**	**Test Method**	**Pass/Fail**
Spurious Radiated Emissions	FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074	**Pass**
Spurious Radiated Emissions	FCC 15.209:2006	ANSI C63.4:2003	**Pass**
Spurious Radiated Emissions	FCC 15.407:2006	ANSI C63.4:2003 DA 02-2138:2002	**Pass**
AC Powerline Conducted Emissions	FCC 15.207:2006	ANSI C63.4:2003	**Pass**

Modifications made to the product
See the Modifications section of this report

Test Facility

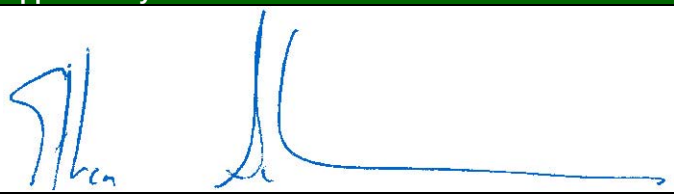
The measurement facility used to collect the data is located at:

Northwest EMC, Inc.
22975 NW Evergreen Parkway, Suite 400
Hillsboro, OR 97124

Phone: (503) 844-4066 Fax: 844-3826

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada.

Approved By:



Ethan Schoonover, Sultan Lab 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		

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

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

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

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

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

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

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

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

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

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

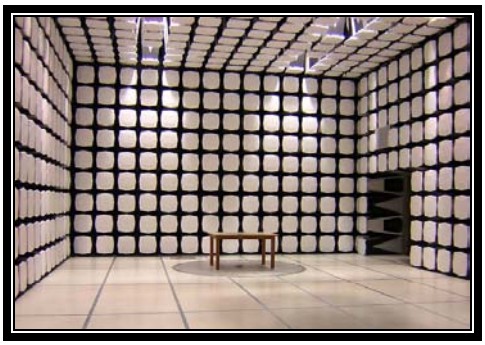
BSMI: Northwest EMC has been designated by NIST and validated by C-Taipei (BSMI) as a CAB to conduct tests as described in the APEC Mutual Recognition Agreement. License No.SL2-IN-E-1017.

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

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

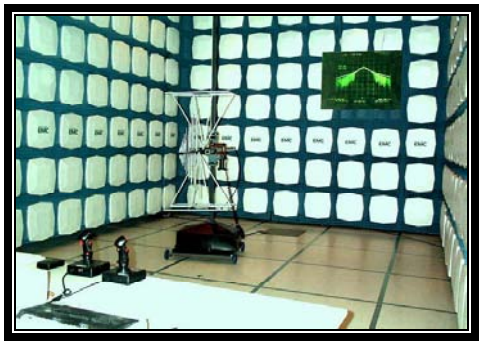
SCOPE

For details on the Scopes of our Accreditations, please visit:
http://www.nwemc.com/scope.asp



California – Orange County Facility
Labs OC01 – OC13

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



Oregon – Evergreen Facility
Labs EV01 – EV11

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

Washington – Sultan Facility
Labs SU01 – SU07

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

Party Requesting the Test

Company Name:	Spectrum Technology, Inc.
Address:	209 Dayton Street Suite #205
City, State, Zip:	Edmonds, WA 98020
Test Requested By:	Rod Munro
Model:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio
First Date of Test:	November 19, 2007
Last Date of Test:	December 4, 2007
Receipt Date of Samples:	November 19, 2007
Equipment Design Stage:	Preproduction
Equipment Condition:	No Damage

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):

The Itronix Model IX350 is a tablet PC that can be used in a notebook configuration only. The IX350 can be configured with a WLAN (Model 4965AGN) or Bluetooth radio (GUBTC41M-TH) or both.

Testing Objective:

To demonstrate compliance to FCC requirements.

CONFIGURATION 1 SPTE0070

Software/Firmware Running during test	
Description	**Version**
Intel(r) PRO/Wireless 4965AGN - CRTU	4.1.34.0000
Bluetest	Bluecore firmware 4155

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
802.11(a)/(b)/(g)(n) radio	Intel Corporation	Itronix P/N: IX-4965AGN	Unknown
Bluetooth radio	Billionton	Itronix P/N: IX-GUBTC41MTH	Unknown
Duo Touch Tablet PC	General Dynamics Itronix Corporation	IX350	SY7200000658

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
USB Keyboard	Logitech	Y-UT76	SC7250Z
Mouse	Logitech	M-BE58	LZE02357693
AC Adapter	Delta Electronics, Inc.	ADP-90SB BB	VCW0632013286
Headset	Unknown	Boom Mic Headset	PDB

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
AC	No	1.8 m	No	AC Adapter	AC Mains
DC	No	1.3 m	Yes	Duo Touch Tablet PC	AC Adapter
Audio - bifurcated speaker and mic	No	1.6 m	No	Duo Touch Tablet PC	Headset
LAN	No	1.0 m	No	Duo Touch Tablet PC	Unterminated
Telecom	No	1.0 m	No	Duo Touch Tablet PC	Unterminated
USB	Yes	1.3 m	No	Duo Touch Tablet PC	Mouse
USB	No	1,8m	No	Duo Touch Tablet PC	Keyboard
PA = Cable is permanently attached to the device. Shielding and/or presence of ferrite may be unknown.					

CONFIGURATION 2 SPTE0070

Software/Firmware Running during test	
Description	**Version**
Intel(r) PRO/Wireless 4965AGN - CRTU	4.1.34.0000
Bluetest	Bluecore firmware 4155

EUT			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
802.11(a)/(b)/(g)(n) radio	Intel Corporation	Itronix P/N: IX-4965AGN	Unknown
Bluetooth radio	Billionton	Itronix P/N: IX-GUBTC41MTH	Unknown

Peripherals in test setup boundary			
Description	**Manufacturer**	**Model/Part Number**	**Serial Number**
Duo Touch Tablet PC	General Dynamics Itronix Corporation	IX350	SY7200000658
AC Adapter	Delta Electronics, Inc.	ADP-90SB BB	VCW0632013286

Cables					
Cable Type	**Shield**	**Length (m)**	**Ferrite**	**Connection 1**	**Connection 2**
AC	No	1.8 m	No	AC Adapter	AC Mains
DC	No	1.3 m	Yes	Duo Touch Tablet PC	AC Adapter
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	11/20/2007	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
2	11/30/2007	AC Powerline Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.
3	12/4/2007	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing complete.

Spurious Radiated Emissions

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

MODES OF OPERATION
802.11(b), 1Mbps
802.11(b), 11Mbps
802.11(g), 6Mbps
802.11(g), 36Mbps
802.11(g), 54Mbps
802.11(n), 2.4GHz band, 20 MHz wide, HT0
802.11(n), 2.4GHz band, 20 MHz wide, HT8

ANTENNAS INVESTIGATED
Chain A
Chain B
Chain AB

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

POWER SETTINGS INVESTIGATED
120VAC/60Hz

FREQUENCY RANGE INVESTIGATED			
Start Frequency	30 MHz	Stop Frequency	26 GHz

CLOCKS AND OSCILLATORS
Not provided at time of test.

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
EV01 Cable D			EVD	7/25/2007	13
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	7/25/2007	13
Antenna, Horn	EMCO	3160-09	AHG	NCR	0
EV01 cables g,h,I			EVF	10/23/2007	13
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	6/22/2007	13
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVD	6/22/2007	13
Antenna, Horn	ETS	3160-08	AHV	NCR	0
Antenna, Horn	ETS	3160-07	AHU	NCR	0
EV01 cables g,h,j			EVB	10/23/2007	13
Low Pass Filter 0-1000 MHz	Micro-Tronics	LPM50004	LFD	12/29/2006	13
High Pass Filter	Micro-Tronics	HPM50111	HFO	12/29/2006	13
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	5/10/2007	13
Pre-Amplifier	Miteq	AM-1616-1000	AOL	12/29/2006	13
Antenna, Horn	EMCO	3115	AHC	8/24/2006	24
Spectrum Analyzer	Agilent	E4446A	AAT	12/7/2006	13
EV01 cables c,g, h			EVA	10/23/2007	13
Antenna, Biconilog	EMCO	3141	AXE	12/28/2005	24

MEASUREMENT BANDWIDTHS

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

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

TEST DESCRIPTION

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

NORTHWEST EMC

Spurious Radiated Emissions

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/26/07
Customer:	Spectrum Technology, Inc.	Temperature:	20°
Attendees:	Rod Munro	Humidity:	24%
Project:	None	Barometric Pres.:	29.97
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074

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

COMMENTS

Tablet horizontal

EUT OPERATING MODES

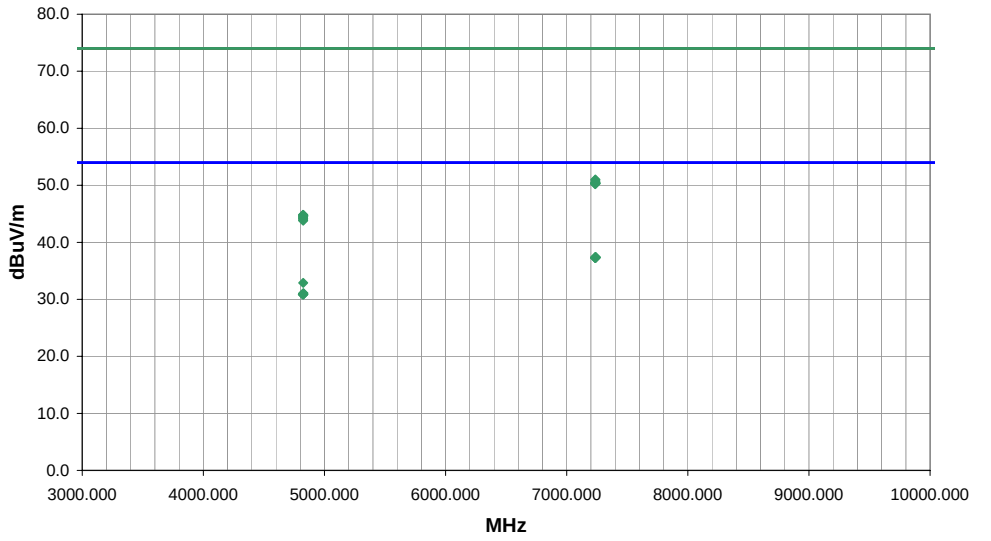
802.11(b/g), Low Channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	12
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
7237.135	20.6	16.8	332.0	1.0	3.0	0.0	V-Horn	AV	0.0	37.4	54.0	-16.6	802.11g, 6Mbps, Low channel
7237.155	20.6	16.8	197.0	1.0	3.0	0.0	V-Horn	AV	0.0	37.4	54.0	-16.6	802.11g, 54Mbps, Low channel
7237.475	20.6	16.8	75.0	1.0	3.0	0.0	H-Horn	AV	0.0	37.4	54.0	-16.6	802.11g, 36Mbps, Low channel
7236.320	20.5	16.8	184.0	1.0	3.0	0.0	H-Horn	AV	0.0	37.3	54.0	-16.7	802.11g, 6Mbps, Low channel
7236.390	20.5	16.8	171.0	1.0	3.0	0.0	V-Horn	AV	0.0	37.3	54.0	-16.7	802.11b, 11Mbps, Low channel
7236.505	20.5	16.8	274.0	2.1	3.0	0.0	H-Horn	AV	0.0	37.3	54.0	-16.7	802.11b, 1Mbps, Low channel
7236.580	20.5	16.8	213.0	1.0	3.0	0.0	V-Horn	AV	0.0	37.3	54.0	-16.7	802.11g, 36Mbps, Low channel
7236.875	20.5	16.8	303.0	3.3	3.0	0.0	V-Horn	AV	0.0	37.3	54.0	-16.7	802.11b, 1Mbps, Low channel
7237.025	20.5	16.8	54.0	1.0	3.0	0.0	H-Horn	AV	0.0	37.3	54.0	-16.7	802.11b, 11Mbps, Low channel
7237.075	20.5	16.8	358.0	1.0	3.0	0.0	H-Horn	AV	0.0	37.3	54.0	-16.7	802.11g, 54Mbps, Low channel
4824.030	23.3	9.6	30.0	1.6	3.0	0.0	V-Horn	AV	0.0	32.9	54.0	-21.1	802.11b, 1Mbps, Low channel
4825.815	21.5	9.6	225.0	1.0	3.0	0.0	V-Horn	AV	0.0	31.1	54.0	-22.9	802.11g, 54Mbps, Low channel
7236.495	34.2	16.8	213.0	1.0	3.0	0.0	V-Horn	PK	0.0	51.0	74.0	-23.0	802.11g, 36Mbps, Low channel
4821.060	21.3	9.6	19.0	2.7	3.0	0.0	H-Horn	AV	0.0	30.9	54.0	-23.1	802.11b, 1Mbps, Low channel
4822.005	21.3	9.6	334.0	1.0	3.0	0.0	H-Horn	AV	0.0	30.9	54.0	-23.1	802.11g, 54Mbps, Low channel
4822.185	21.3	9.6	69.0	1.0	3.0	0.0	H-Horn	AV	0.0	30.9	54.0	-23.1	802.11g, 6Mbps, Low channel
4822.590	21.3	9.6	240.0	1.0	3.0	0.0	V-Horn	AV	0.0	30.9	54.0	-23.1	802.11g, 6Mbps, Low channel
4822.920	21.3	9.6	-1.0	1.3	3.0	0.0	V-Horn	AV	0.0	30.9	54.0	-23.1	802.11b, 11Mbps, Low channel
4823.095	21.3	9.6	243.0	1.0	3.0	0.0	H-Horn	AV	0.0	30.9	54.0	-23.1	802.11b, 11Mbps, Low channel
4825.085	21.3	9.6	272.0	1.0	3.0	0.0	V-Horn	AV	0.0	30.9	54.0	-23.1	802.11g, 36Mbps, Low channel

NORTHWEST EMC

Spurious Radiated Emissions

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/26/07
Customer:	Spectrum Technology, Inc.	Temperature:	20°
Attendees:	Rod Munro	Humidity:	28%
Project:	None	Barometric Pres.:	30.47
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074

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

COMMENTS

Tablet horizontal

EUT OPERATING MODES

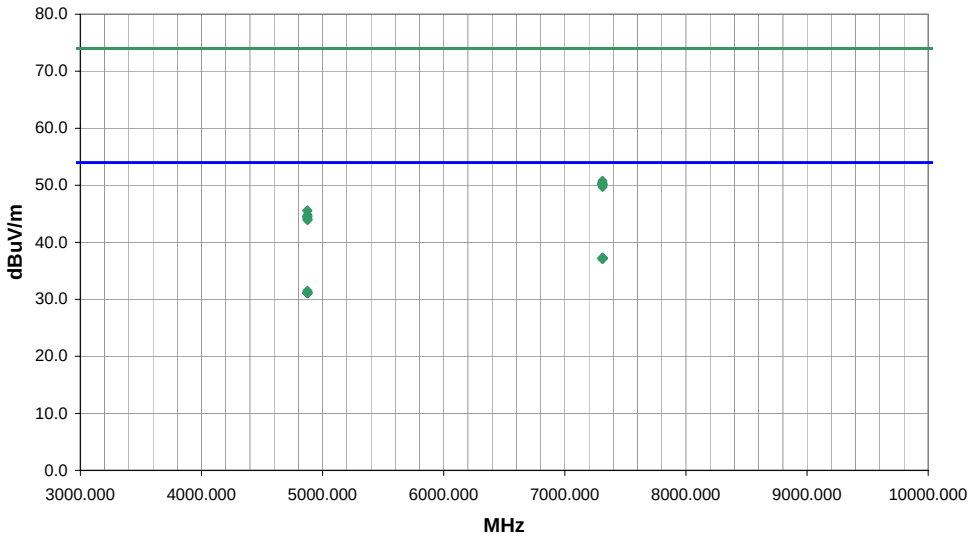
802.11(b/g), Mid Channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	13
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
7312.440	20.1	17.2	232.0	1.9	3.0	0.0	H-Horn	AV	0.0	37.3	54.0	-16.7	802.11b, 11Mbps, Mid channel
7312.860	20.1	17.2	290.0	3.4	3.0	0.0	V-Horn	AV	0.0	37.3	54.0	-16.7	802.11b, 11Mbps, Mid channel
7311.475	20.0	17.2	359.0	3.2	3.0	0.0	H-Horn	AV	0.0	37.2	54.0	-16.8	802.11g, 54Mbps, Mid channel
7312.170	20.0	17.2	111.0	2.0	3.0	0.0	H-Horn	AV	0.0	37.2	54.0	-16.8	802.11g, 36Mbps, Mid channel
7312.285	20.0	17.2	182.0	1.5	3.0	0.0	H-Horn	AV	0.0	37.2	54.0	-16.8	802.11g, 6Mbps, Mid channel
7312.355	20.0	17.2	71.0	3.4	3.0	0.0	V-Horn	AV	0.0	37.2	54.0	-16.8	802.11g, 54Mbps, Mid channel
7312.455	20.0	17.2	91.0	3.4	3.0	0.0	H-Horn	AV	0.0	37.2	54.0	-16.8	802.11b, 1Mbps, Mid channel
7310.575	19.9	17.2	309.0	3.4	3.0	0.0	V-Horn	AV	0.0	37.1	54.0	-16.9	802.11g, 6Mbps, Mid channel
7310.615	19.9	17.2	138.0	3.4	3.0	0.0	V-Horn	AV	0.0	37.1	54.0	-16.9	802.11g, 36Mbps, Mid channel
7311.465	19.9	17.2	111.0	1.0	3.0	0.0	V-Horn	AV	0.0	37.1	54.0	-16.9	802.11b, 1Mbps, Mid channel
4874.065	21.7	9.8	39.0	1.0	3.0	0.0	V-Horn	AV	0.0	31.5	54.0	-22.5	802.11b, 11Mbps, Mid channel
4875.050	21.5	9.8	55.0	1.0	3.0	0.0	V-Horn	AV	0.0	31.3	54.0	-22.7	802.11g, 54Mbps, Mid channel
4874.065	21.4	9.8	360.0	1.3	3.0	0.0	V-Horn	AV	0.0	31.2	54.0	-22.8	802.11b, 1Mbps, Mid channel
4871.790	21.3	9.8	217.0	1.0	3.0	0.0	V-Horn	AV	0.0	31.1	54.0	-22.9	802.11g, 6Mbps, Mid channel
4873.915	21.3	9.8	145.0	1.0	3.0	0.0	H-Horn	AV	0.0	31.1	54.0	-22.9	802.11g, 54Mbps, Mid channel
4874.085	21.3	9.8	144.0	3.5	3.0	0.0	H-Horn	AV	0.0	31.1	54.0	-22.9	802.11g, 6Mbps, Mid channel
4874.170	21.3	9.8	21.0	3.1	3.0	0.0	H-Horn	AV	0.0	31.1	54.0	-22.9	802.11b, 1Mbps, Mid channel
4874.955	21.3	9.8	353.0	1.0	3.0	0.0	V-Horn	AV	0.0	31.1	54.0	-22.9	802.11g, 36Mbps, Mid channel
4875.075	21.3	9.8	229.0	1.0	3.0	0.0	H-Horn	AV	0.0	31.1	54.0	-22.9	802.11b, 11Mbps, Mid channel
4875.320	21.3	9.8	206.0	3.9	3.0	0.0	H-Horn	AV	0.0	31.1	54.0	-22.9	802.11g, 36Mbps, Mid channel

NORTHWEST EMC

Spurious Radiated Emissions

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/26/07
Customer:	Spectrum Technology, Inc.	Temperature:	20°
Attendees:	Rod Munro	Humidity:	24%
Project:	None	Barometric Pres.:	29.97
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074

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

COMMENTS

Tablet horizontal

EUT OPERATING MODES

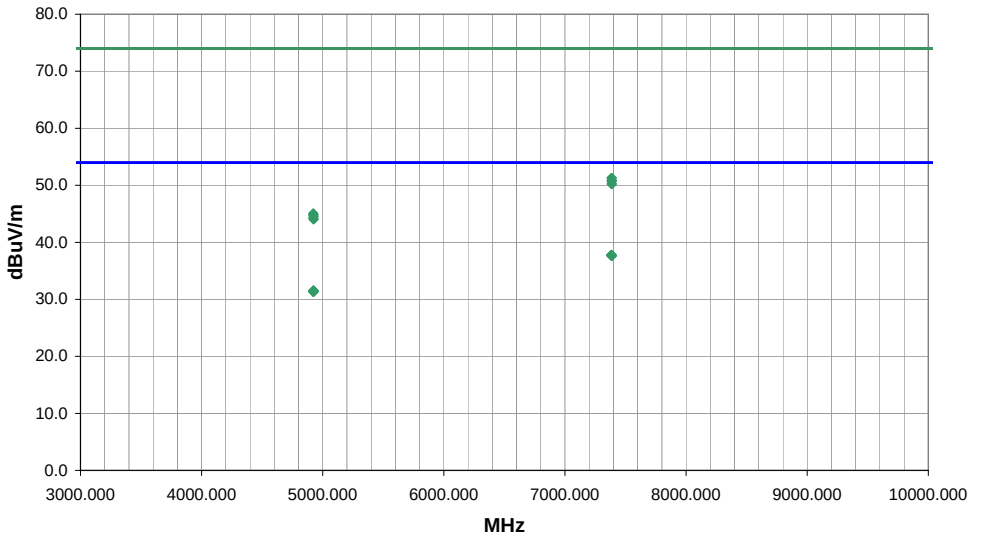
802.11(b/g), High Channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	14
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
7383.300	20.1	17.7	162.0	1.6	0.0	0.0	V-Horn	AV	0.0	37.8	54.0	-16.2	802.11g, 6Mbps, High channel
7383.375	20.1	17.7	296.0	1.0	0.0	0.0	H-Horn	AV	0.0	37.8	54.0	-16.2	802.11g, 54Mbps, High channel
7383.770	20.1	17.7	248.0	1.1	0.0	0.0	V-Horn	AV	0.0	37.8	54.0	-16.2	802.11g, 54Mbps, High channel
7383.655	20.0	17.7	279.0	1.0	0.0	0.0	H-Horn	AV	0.0	37.7	54.0	-16.3	802.11g, 6Mbps, High channel
7383.915	20.0	17.7	58.0	1.0	0.0	0.0	V-Horn	AV	0.0	37.7	54.0	-16.3	802.11b, 11Mbps, High channel
7384.075	20.0	17.7	359.0	2.5	0.0	0.0	V-Horn	AV	0.0	37.7	54.0	-16.3	802.11b, 1Mbps, High channel
7384.390	20.0	17.7	336.0	1.0	0.0	0.0	H-Horn	AV	0.0	37.7	54.0	-16.3	802.11b, 11Mbps, High channel
7385.095	19.9	17.7	175.0	3.1	0.0	0.0	V-Horn	AV	0.0	37.6	54.0	-16.4	802.11g, 36Mbps, High channel
7385.220	19.9	17.7	257.0	1.0	0.0	0.0	H-Horn	AV	0.0	37.6	54.0	-16.4	802.11b, 1Mbps, High channel
7385.550	19.9	17.7	316.0	1.0	0.0	0.0	H-Horn	AV	0.0	37.6	54.0	-16.4	802.11g, 36Mbps, High channel
4924.000	21.6	10.0	263.0	1.0	0.0	0.0	V-Horn	AV	0.0	31.6	54.0	-22.4	802.11b, 1Mbps, High channel
4923.730	21.5	10.0	67.0	3.3	0.0	0.0	H-Horn	AV	0.0	31.5	54.0	-22.5	802.11b, 1Mbps, High channel
4923.805	21.5	10.0	41.0	1.0	0.0	0.0	V-Horn	AV	0.0	31.5	54.0	-22.5	802.11b, 11Mbps, High channel
4924.110	21.5	10.0	38.0	2.1	0.0	0.0	H-Horn	AV	0.0	31.5	54.0	-22.5	802.11g, 36Mbps, High channel
4923.205	21.4	10.0	215.0	1.9	0.0	0.0	V-Horn	AV	0.0	31.4	54.0	-22.6	802.11g, 54Mbps, High channel
4923.225	21.4	10.0	360.0	2.1	0.0	0.0	H-Horn	AV	0.0	31.4	54.0	-22.6	802.11g, 6Mbps, High channel
4923.705	21.4	10.0	314.0	3.2	0.0	0.0	H-Horn	AV	0.0	31.4	54.0	-22.6	802.11g, 54Mbps, High channel
4924.010	21.4	10.0	201.0	2.9	0.0	0.0	V-Horn	AV	0.0	31.4	54.0	-22.6	802.11g, 36Mbps, High channel
4922.285	21.3	10.0	32.0	2.9	0.0	0.0	V-Horn	AV	0.0	31.3	54.0	-22.7	802.11g, 6Mbps, High channel
4924.075	21.3	10.0	170.0	1.5	0.0	0.0	H-Horn	AV	0.0	31.3	54.0	-22.7	802.11b, 11Mbps, High channel

NORTHWEST EMC

Spurious Radiated Emissions

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/29/07
Customer:	Spectrum Technology, Inc.	Temperature:	21°
Attendees:	Rod Munro	Humidity:	30%
Project:	None	Barometric Pres.:	30.22
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074

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

COMMENTS

See comments for tablet orientation.

EUT OPERATING MODES

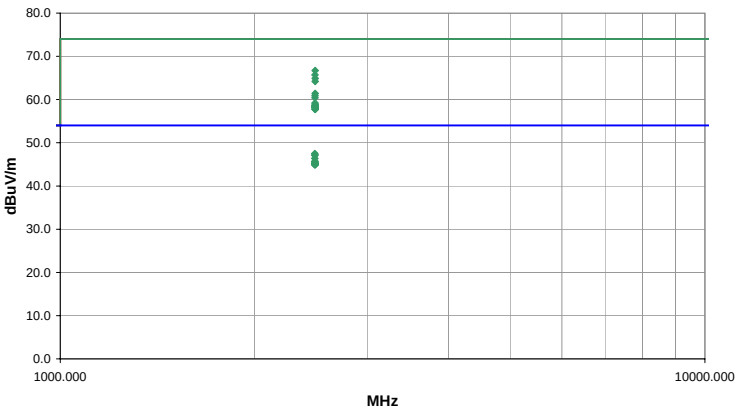
802.11(b/g), High channel, see comments for data rates and Chain.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	26
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
2482.910	25.3	2.2	349.0	1.6	3.0	20.0	V-Horn	AV	0.0	47.5	54.0	-6.5	802.11(g), 6Mbps, Chain A, High channel, Tablet Portrait mode, (right side facing up).
2483.227	25.0	2.2	309.0	1.8	3.0	20.0	H-Horn	AV	0.0	47.2	54.0	-6.8	802.11(g), 6Mbps, Chain A, High channel, Tablet vertical
2482.667	24.9	2.2	321.0	1.8	3.0	20.0	H-Horn	AV	0.0	47.1	54.0	-6.9	802.11(g), 36Mbps, Chain A, High channel, Tablet vertical
2485.427	44.5	2.2	309.0	1.8	3.0	20.0	H-Horn	PK	0.0	66.7	74.0	-7.3	802.11(g), 6Mbps, Chain A, High channel, Tablet vertical
2482.980	24.2	2.2	318.0	1.8	3.0	20.0	H-Horn	AV	0.0	46.4	54.0	-7.6	802.11(g), 54Mbps, Chain A, High channel, Tablet vertical
2482.973	23.5	2.2	41.0	1.8	3.0	20.0	H-Horn	AV	0.0	45.7	54.0	-8.3	802.11(g), 6Mbps, Chain A, High channel, Tablet Portrait mode, (right side facing up).
2483.603	23.5	2.2	146.0	2.1	3.0	20.0	H-Horn	AV	0.0	45.7	54.0	-8.3	802.11(g), 6Mbps, Chain A, High channel, Tablet Horizontal.
2483.687	43.5	2.2	321.0	1.8	3.0	20.0	H-Horn	PK	0.0	65.7	74.0	-8.3	802.11(g), 36Mbps, Chain A, High channel, Tablet vertical
2483.390	23.2	2.2	237.0	2.1	3.0	20.0	H-Horn	AV	0.0	45.4	54.0	-8.6	802.11(g), 6Mbps, Chain B, High channel, Tablet Horizontal.
2483.987	23.1	2.2	324.0	2.1	3.0	20.0	H-Horn	AV	0.0	45.3	54.0	-8.7	802.11(g), 6Mbps, Chain B, High channel, Tablet Vertical.
2483.990	23.1	2.2	270.0	1.6	3.0	20.0	V-Horn	AV	0.0	45.3	54.0	-8.7	802.11(g), 54Mbps, Chain A, High channel, Tablet vertical
2484.350	22.9	2.2	5.0	1.9	3.0	20.0	H-Horn	AV	0.0	45.1	54.0	-8.9	802.11(b), 11Mbps, Chain A, High channel, Tablet vertical
2485.127	22.9	2.2	0.0	1.9	3.0	20.0	H-Horn	AV	0.0	45.1	54.0	-8.9	802.11(b), 1Mbps, Chain A, High channel, Tablet vertical
2483.780	22.8	2.2	65.0	1.0	3.0	20.0	V-Horn	AV	0.0	45.0	54.0	-9.0	802.11(b), 1Mbps, Chain A, High channel, Tablet vertical
2484.010	22.8	2.2	231.0	1.0	3.0	20.0	V-Horn	AV	0.0	45.0	54.0	-9.0	802.11(g), 6Mbps, Chain B, High channel, Tablet Horizontal.
2484.307	22.8	2.2	233.0	3.1	3.0	20.0	V-Horn	AV	0.0	45.0	54.0	-9.0	802.11(g), 6Mbps, Chain B, High channel, Tablet Portrait mode, (right side facing up).
2484.483	22.8	2.2	312.0	1.0	3.0	20.0	V-Horn	AV	0.0	45.0	54.0	-9.0	802.11(g), 6Mbps, Chain B, High channel, Tablet Vertical.
2484.883	22.8	2.2	272.0	3.4	3.0	20.0	V-Horn	AV	0.0	45.0	54.0	-9.0	802.11(g), 36Mbps, Chain A, High channel, Tablet vertical
2485.037	22.8	2.2	294.0	3.4	3.0	20.0	V-Horn	AV	0.0	45.0	54.0	-9.0	802.11(b), 11Mbps, Chain A, High channel, Tablet vertical
2485.643	22.8	2.2	0.0	2.6	3.0	20.0	V-Horn	AV	0.0	45.0	54.0	-9.0	802.11(g), 6Mbps, Chain A, High channel, Tablet Horizontal.

NORTHWEST EMC

Spurious Radiated Emissions

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/27/07
Customer:	Spectrum Technology, Inc.	Temperature:	20°
Attendees:	Rod Munro	Humidity:	24%
Project:	None	Barometric Pres.:	29.97
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074

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

COMMENTS

Tablet horizontal

EUT OPERATING MODES

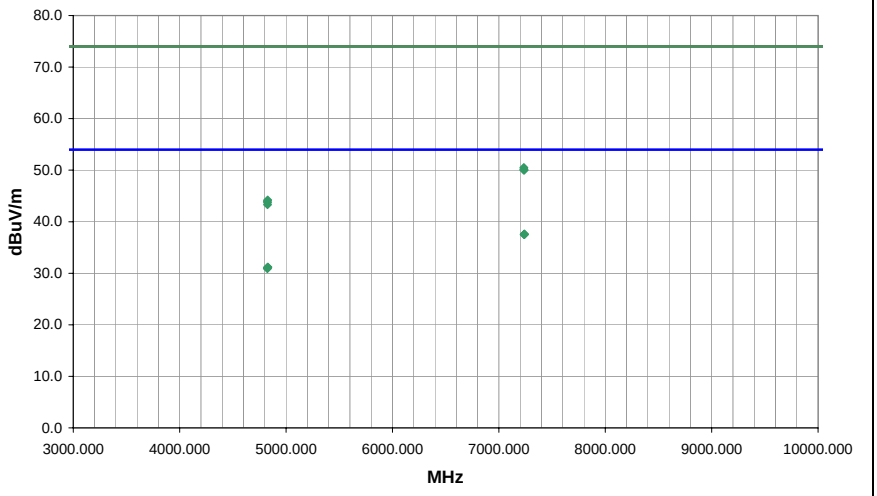
802.11(n), Low channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	16
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
7238.942	20.8	16.8	188.0	1.0	3.0	0.0	H-Horn	AV	0.0	37.6	54.0	-16.4	802.11(n), HT8 @20MHz, Chain AB, Low channel
7239.267	20.8	16.8	152.0	1.0	3.0	0.0	H-Horn	AV	0.0	37.6	54.0	-16.4	802.11(n), HT0 @20MHz, Chain A, Low channel
7237.383	20.7	16.8	329.0	1.9	3.0	0.0	V-Horn	AV	0.0	37.5	54.0	-16.5	802.11(n), HT0 @20MHz, Chain A, Low channel
7238.450	20.7	16.8	355.0	1.0	3.0	0.0	V-Horn	AV	0.0	37.5	54.0	-16.5	802.11(n), HT8 @20MHz, Chain AB, Low channel
4827.892	21.6	9.6	359.0	1.8	3.0	0.0	V-Horn	AV	0.0	31.2	54.0	-22.8	802.11(n), HT0 @20MHz, Chain A, Low channel
4826.633	21.5	9.6	161.0	1.0	3.0	0.0	H-Horn	AV	0.0	31.1	54.0	-22.9	802.11(n), HT8 @20MHz, Chain AB, Low channel
4827.375	21.5	9.6	233.0	1.2	3.0	0.0	V-Horn	AV	0.0	31.1	54.0	-22.9	802.11(n), HT8 @20MHz, Chain AB, Low channel
4824.008	21.3	9.6	66.0	1.0	3.0	0.0	H-Horn	AV	0.0	30.9	54.0	-23.1	802.11(n), HT0 @20MHz, Chain A, Low channel
7234.842	33.7	16.8	355.0	1.0	3.0	0.0	V-Horn	PK	0.0	50.5	74.0	-23.5	802.11(n), HT8 @20MHz, Chain AB, Low channel
7234.617	33.4	16.8	329.0	1.9	3.0	0.0	V-Horn	PK	0.0	50.2	74.0	-23.8	802.11(n), HT0 @20MHz, Chain A, Low channel
7235.242	33.2	16.8	152.0	1.0	3.0	0.0	H-Horn	PK	0.0	50.0	74.0	-24.0	802.11(n), HT0 @20MHz, Chain A, Low channel
7237.708	33.2	16.8	188.0	1.0	3.0	0.0	H-Horn	PK	0.0	50.0	74.0	-24.0	802.11(n), HT8 @20MHz, Chain AB, Low channel
4826.325	34.6	9.6	359.0	1.8	3.0	0.0	V-Horn	PK	0.0	44.2	74.0	-29.8	802.11(n), HT0 @20MHz, Chain A, Low channel
4823.800	34.4	9.6	233.0	1.2	3.0	0.0	V-Horn	PK	0.0	44.0	74.0	-30.0	802.11(n), HT8 @20MHz, Chain AB, Low channel
4826.042	34.1	9.6	161.0	1.0	3.0	0.0	H-Horn	PK	0.0	43.7	74.0	-30.3	802.11(n), HT8 @20MHz, Chain AB, Low channel
4826.158	33.7	9.6	66.0	1.0	3.0	0.0	H-Horn	PK	0.0	43.3	74.0	-30.7	802.11(n), HT0 @20MHz, Chain A, Low channel

NORTHWEST EMC

Spurious Radiated Emissions

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/28/07
Customer:	Spectrum Technology, Inc.	Temperature:	20°
Attendees:	Rod Munro	Humidity:	24%
Project:	None	Barometric Pres.:	29.97
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074

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

COMMENTS

Tablet horizontal

EUT OPERATING MODES

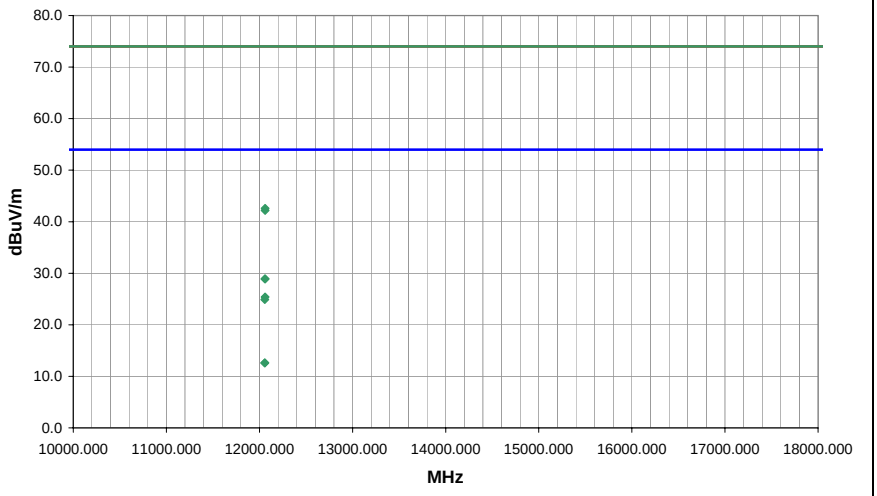
802.11(n), Low channel.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	17
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
12058.950	31.4	-2.5	92.0	1.0	3.0	0.0	V-Horn	AV	0.0	28.9	54.0	-25.1	802.11(n), HT8 @20MHz, Chain AB, Low channel
12060.710	31.4	-2.5	191.0	1.0	3.0	0.0	H-Horn	AV	0.0	28.9	54.0	-25.1	802.11(n), HT8 @20MHz, Chain AB, Low channel
12060.980	45.1	-2.5	191.0	1.0	3.0	0.0	H-Horn	PK	0.0	42.6	74.0	-31.4	802.11(n), HT8 @20MHz, Chain AB, Low channel
12060.590	44.7	-2.5	92.0	1.0	3.0	0.0	V-Horn	PK	0.0	42.2	74.0	-31.8	802.11(n), HT8 @20MHz, Chain AB, Low channel
12056.670	15.1	-2.5	139.0	1.4	3.0	0.0	V-Horn	AV	0.0	12.6	54.0	-41.4	802.11(n), HT0 @20MHz, Chain A, Low channel
12057.750	15.1	-2.5	275.0	1.0	3.0	0.0	H-Horn	AV	0.0	12.6	54.0	-41.4	802.11(n), HT0 @20MHz, Chain A, Low channel
12060.160	27.9	-2.5	139.0	1.4	3.0	0.0	V-Horn	PK	0.0	25.4	74.0	-48.6	802.11(n), HT0 @20MHz, Chain A, Low channel
12057.860	27.4	-2.5	275.0	1.0	3.0	0.0	H-Horn	PK	0.0	24.9	74.0	-49.1	802.11(n), HT0 @20MHz, Chain A, Low channel

NORTHWEST EMC

Spurious Radiated Emissions

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/28/07
Customer:	Spectrum Technology, Inc.	Temperature:	20°
Attendees:	Rod Munro	Humidity:	24%
Project:	None	Barometric Pres.:	29.97
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074

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

COMMENTS

Tablet horizontal

EUT OPERATING MODES

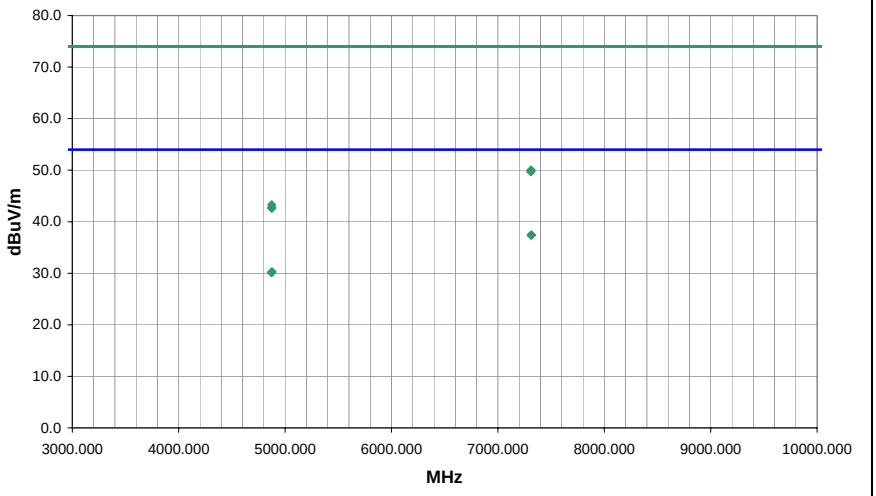
802.11(n), Mid channel.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	21
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
7311.750	20.2	17.2	37.0	1.0	3.0	0.0	H-Horn	AV	0.0	37.4	54.0	-16.6	802.11(n), HT0 @20MHz, Chain A, Mid channel.
7312.633	20.2	17.2	79.0	3.3	3.0	0.0	H-Horn	AV	0.0	37.4	54.0	-16.6	802.11(n), HT8 @20MHz, Chain AB, Mid channel.
7314.850	20.2	17.2	330.0	1.0	3.0	0.0	V-Horn	AV	0.0	37.4	54.0	-16.6	802.11(n), HT8 @20MHz, Chain AB, Mid channel.
7315.608	20.2	17.2	355.0	1.0	3.0	0.0	V-Horn	AV	0.0	37.4	54.0	-16.6	802.11(n), HT0 @20MHz, Chain A, Mid channel.
4876.408	20.5	9.8	64.0	1.0	3.0	0.0	H-Horn	AV	0.0	30.3	54.0	-23.7	802.11(n), HT0 @20MHz, Chain A, Mid channel.
4875.408	20.4	9.8	275.0	1.2	3.0	0.0	V-Horn	AV	0.0	30.2	54.0	-23.8	802.11(n), HT0 @20MHz, Chain A, Mid channel.
4876.592	20.4	9.8	255.0	1.0	3.0	0.0	H-Horn	AV	0.0	30.2	54.0	-23.8	802.11(n), HT8 @20MHz, Chain AB, Mid channel.
4869.933	20.3	9.8	282.0	1.2	3.0	0.0	V-Horn	AV	0.0	30.1	54.0	-23.9	802.11(n), HT8 @20MHz, Chain AB, Mid channel.
7309.283	32.8	17.2	355.0	1.0	3.0	0.0	V-Horn	PK	0.0	50.0	74.0	-24.0	802.11(n), HT0 @20MHz, Chain A, Mid channel.
7312.117	32.8	17.2	330.0	1.0	3.0	0.0	V-Horn	PK	0.0	50.0	74.0	-24.0	802.11(n), HT8 @20MHz, Chain AB, Mid channel.
7308.592	32.5	17.2	79.0	3.3	3.0	0.0	H-Horn	PK	0.0	49.7	74.0	-24.3	802.11(n), HT8 @20MHz, Chain AB, Mid channel.
7310.725	32.5	17.2	37.0	1.0	3.0	0.0	H-Horn	PK	0.0	49.7	74.0	-24.3	802.11(n), HT0 @20MHz, Chain A, Mid channel.
4874.025	33.5	9.8	282.0	1.2	3.0	0.0	V-Horn	PK	0.0	43.3	74.0	-30.7	802.11(n), HT8 @20MHz, Chain AB, Mid channel.
4875.217	33.0	9.8	64.0	1.0	3.0	0.0	H-Horn	PK	0.0	42.8	74.0	-31.2	802.11(n), HT0 @20MHz, Chain A, Mid channel.
4874.108	32.9	9.8	275.0	1.2	3.0	0.0	V-Horn	PK	0.0	42.7	74.0	-31.3	802.11(n), HT0 @20MHz, Chain A, Mid channel.
4875.525	32.8	9.8	255.0	1.0	3.0	0.0	H-Horn	PK	0.0	42.6	74.0	-31.4	802.11(n), HT8 @20MHz, Chain AB, Mid channel.

NORTHWEST EMC

Spurious Radiated Emissions

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/28/07
Customer:	Spectrum Technology, Inc.	Temperature:	20°
Attendees:	Rod Munro	Humidity:	24%
Project:	None	Barometric Pres.:	29.97
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074

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

COMMENTS

Tablet horizontal

EUT OPERATING MODES

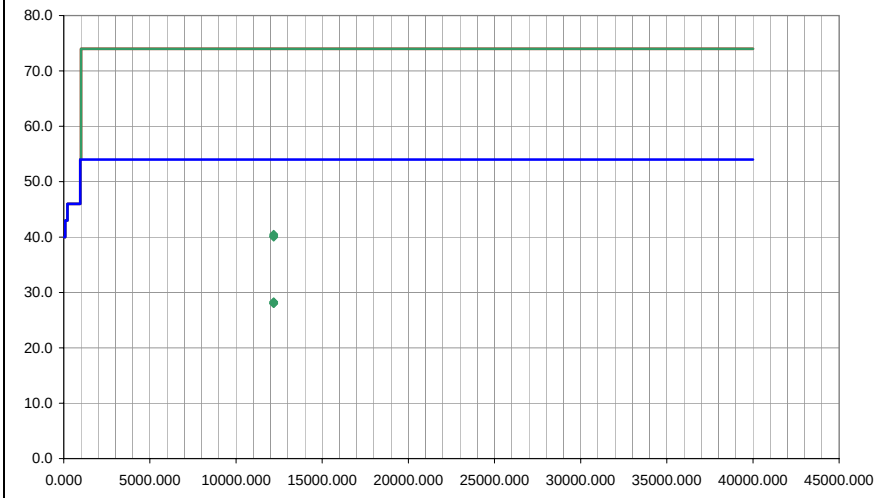
802.11(n), Mid channel.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	22
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
12181.280	30.7	-2.4	147.0	1.0	0.0	0.0	V-Horn	AV	0.0	28.3	54.0	-25.7	802.11(n), HT8 @20MHz, Chain AB, Mid channel.
12180.250	30.6	-2.4	232.0	1.0	0.0	0.0	H-Horn	AV	0.0	28.2	54.0	-25.8	802.11(n), HT8 @20MHz, Chain AB, Mid channel.
12180.580	30.4	-2.4	287.0	1.0	0.0	0.0	H-Horn	AV	0.0	28.0	54.0	-26.0	802.11(n), HT0 @20MHz, Chain A, Mid channel.
12181.300	30.4	-2.4	27.0	1.0	0.0	0.0	V-Horn	AV	0.0	28.0	54.0	-26.0	802.11(n), HT0 @20MHz, Chain A, Mid channel.
12183.500	42.9	-2.4	27.0	1.0	0.0	0.0	V-Horn	PK	0.0	40.5	74.0	-33.5	802.11(n), HT0 @20MHz, Chain A, Mid channel.
12183.510	42.6	-2.4	232.0	1.0	0.0	0.0	H-Horn	PK	0.0	40.2	74.0	-33.8	802.11(n), HT8 @20MHz, Chain AB, Mid channel.
12184.690	42.6	-2.4	147.0	1.0	0.0	0.0	V-Horn	PK	0.0	40.2	74.0	-33.8	802.11(n), HT8 @20MHz, Chain AB, Mid channel.
12183.950	42.4	-2.4	287.0	1.0	0.0	0.0	H-Horn	PK	0.0	40.0	74.0	-34.0	802.11(n), HT0 @20MHz, Chain A, Mid channel.

NORTHWEST EMC

Spurious Radiated Emissions

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/28/07
Customer:	Spectrum Technology, Inc.	Temperature:	20°
Attendees:	Rod Munro	Humidity:	24%
Project:	None	Barometric Pres.:	29.97
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074

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

COMMENTS

Tablet horizontal

EUT OPERATING MODES

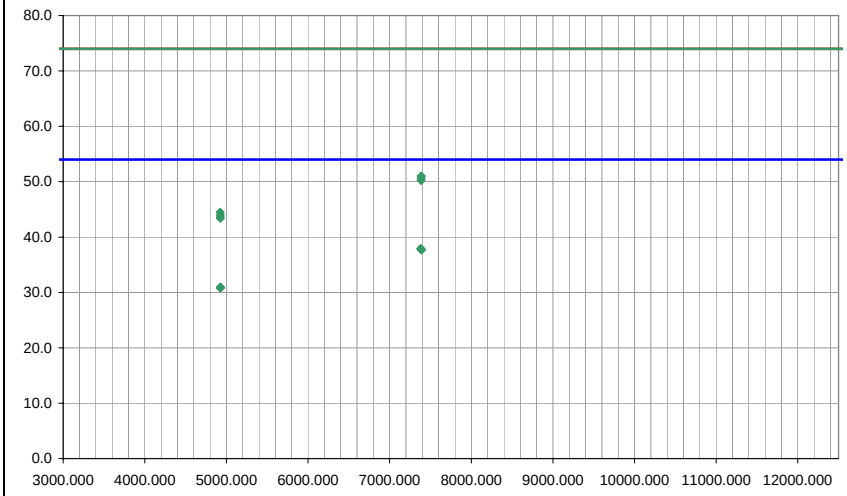
802.11(n), High channel.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	23
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
7381.508	20.2	17.7	146.0	1.0	3.0	0.0	H-Horn	AV	0.0	37.9	54.0	-16.1	802.11(n), HT0 @20MHz, Chain A, High channel.
7382.050	20.2	17.7	12.0	1.0	3.0	0.0	V-Horn	AV	0.0	37.9	54.0	-16.1	802.11(n), HT0 @20MHz, Chain A, High channel.
7389.925	20.0	17.7	169.0	1.5	3.0	0.0	H-Horn	AV	0.0	37.7	54.0	-16.3	802.11(n), HT8 @20MHz, Chain AB, High channel.
7390.267	20.0	17.7	267.0	1.0	3.0	0.0	V-Horn	AV	0.0	37.7	54.0	-16.3	802.11(n), HT8 @20MHz, Chain AB, High channel.
7386.025	33.3	17.7	267.0	1.0	3.0	0.0	V-Horn	PK	0.0	51.0	74.0	-23.0	802.11(n), HT8 @20MHz, Chain AB, High channel.
7388.358	33.3	17.7	146.0	1.0	3.0	0.0	H-Horn	PK	0.0	51.0	74.0	-23.0	802.11(n), HT0 @20MHz, Chain A, High channel.
4925.075	20.9	10.0	55.0	1.0	3.0	0.0	V-Horn	AV	0.0	30.9	54.0	-23.1	802.11(n), HT0 @20MHz, Chain A, High channel.
4926.283	20.9	10.0	260.0	1.4	3.0	0.0	H-Horn	AV	0.0	30.9	54.0	-23.1	802.11(n), HT8 @20MHz, Chain AB, High channel.
4928.275	20.9	10.0	163.0	1.0	3.0	0.0	H-Horn	AV	0.0	30.9	54.0	-23.1	802.11(n), HT0 @20MHz, Chain A, High channel.
4925.092	20.8	10.0	74.0	1.2	3.0	0.0	V-Horn	AV	0.0	30.8	54.0	-23.2	802.11(n), HT8 @20MHz, Chain AB, High channel.
7384.883	32.9	17.7	169.0	1.5	3.0	0.0	H-Horn	PK	0.0	50.6	74.0	-23.4	802.11(n), HT8 @20MHz, Chain AB, High channel.
7384.817	32.5	17.7	12.0	1.0	3.0	0.0	V-Horn	PK	0.0	50.2	74.0	-23.8	802.11(n), HT0 @20MHz, Chain A, High channel.
4923.258	34.5	10.0	55.0	1.0	3.0	0.0	V-Horn	PK	0.0	44.5	74.0	-29.5	802.11(n), HT0 @20MHz, Chain A, High channel.
4925.917	34.0	10.0	163.0	1.0	3.0	0.0	H-Horn	PK	0.0	44.0	74.0	-30.0	802.11(n), HT0 @20MHz, Chain A, High channel.
4925.358	33.6	10.0	260.0	1.4	3.0	0.0	H-Horn	PK	0.0	43.6	74.0	-30.4	802.11(n), HT8 @20MHz, Chain AB, High channel.
4924.125	33.4	10.0	74.0	1.2	3.0	0.0	V-Horn	PK	0.0	43.4	74.0	-30.6	802.11(n), HT8 @20MHz, Chain AB, High channel.

NORTHWEST EMC

Spurious Radiated Emissions

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/28/07
Customer:	Spectrum Technology, Inc.	Temperature:	20°
Attendees:	Rod Munro	Humidity:	24%
Project:	None	Barometric Pres.:	29.97
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074

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

COMMENTS

Tablet horizontal

EUT OPERATING MODES

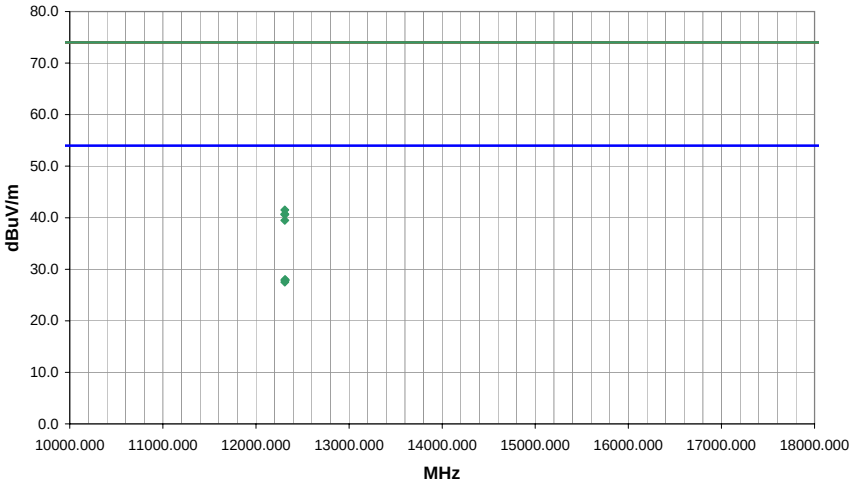
802.11(n), High channel.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	24
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
12313.180	30.3	-2.3	123.0	1.0	3.0	0.0	V-Horn	AV	0.0	28.0	54.0	-26.0	802.11(n), HT8 @20MHz, Chain AB, High channel.
12311.820	30.2	-2.3	63.0	1.0	3.0	0.0	V-Horn	AV	0.0	27.9	54.0	-26.1	802.11(n), HT0 @20MHz, Chain A, High channel.
12312.660	30.1	-2.3	185.0	1.0	3.0	0.0	H-Horn	AV	0.0	27.8	54.0	-26.2	802.11(n), HT0 @20MHz, Chain A, High channel.
12310.050	29.8	-2.3	18.0	1.0	3.0	0.0	H-Horn	AV	0.0	27.5	54.0	-26.5	802.11(n), HT8 @20MHz, Chain AB, High channel.
12309.220	43.8	-2.3	63.0	1.0	3.0	0.0	V-Horn	PK	0.0	41.5	74.0	-32.5	802.11(n), HT0 @20MHz, Chain A, High channel.
12308.930	43.0	-2.3	185.0	1.0	3.0	0.0	H-Horn	PK	0.0	40.7	74.0	-33.3	802.11(n), HT0 @20MHz, Chain A, High channel.
12309.220	42.9	-2.3	123.0	1.0	3.0	0.0	V-Horn	PK	0.0	40.6	74.0	-33.4	802.11(n), HT8 @20MHz, Chain AB, High channel.
12310.060	41.8	-2.3	18.0	1.0	3.0	0.0	H-Horn	PK	0.0	39.5	74.0	-34.5	802.11(n), HT8 @20MHz, Chain AB, High channel.

NORTHWEST

EMC — Spurious Radiated Emissions

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/29/07
Customer:	Spectrum Technology, Inc.	Temperature:	21°
Attendees:	Rod Munro	Humidity:	30%
Project:	None	Barometric Pres.:	30.22
Tested by:	Dan Haas	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074

TEST PARAMETERS

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

COMMENTS

See comments for tablet orientation.

EUT OPERATING MODES

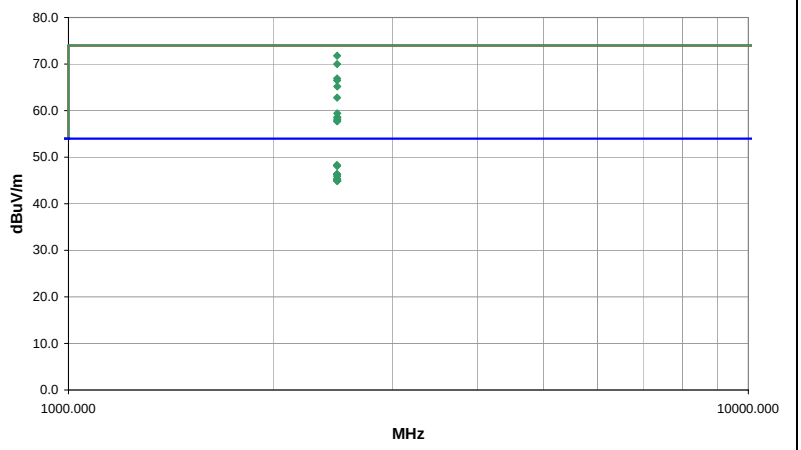
802.11(n), 6Mbps, High channel, see comments for Chain.

DEVIATIONS FROM TEST STANDARD

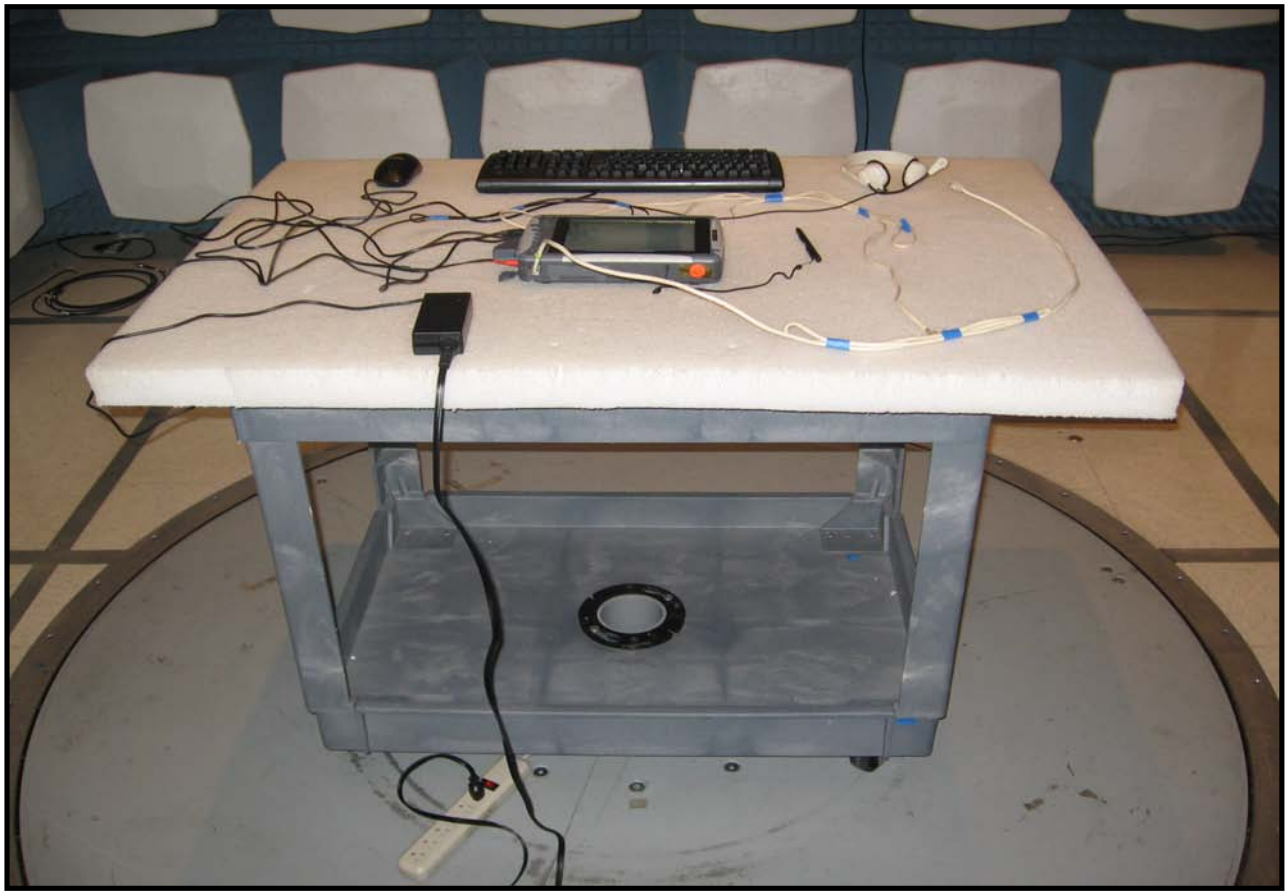
No deviations.

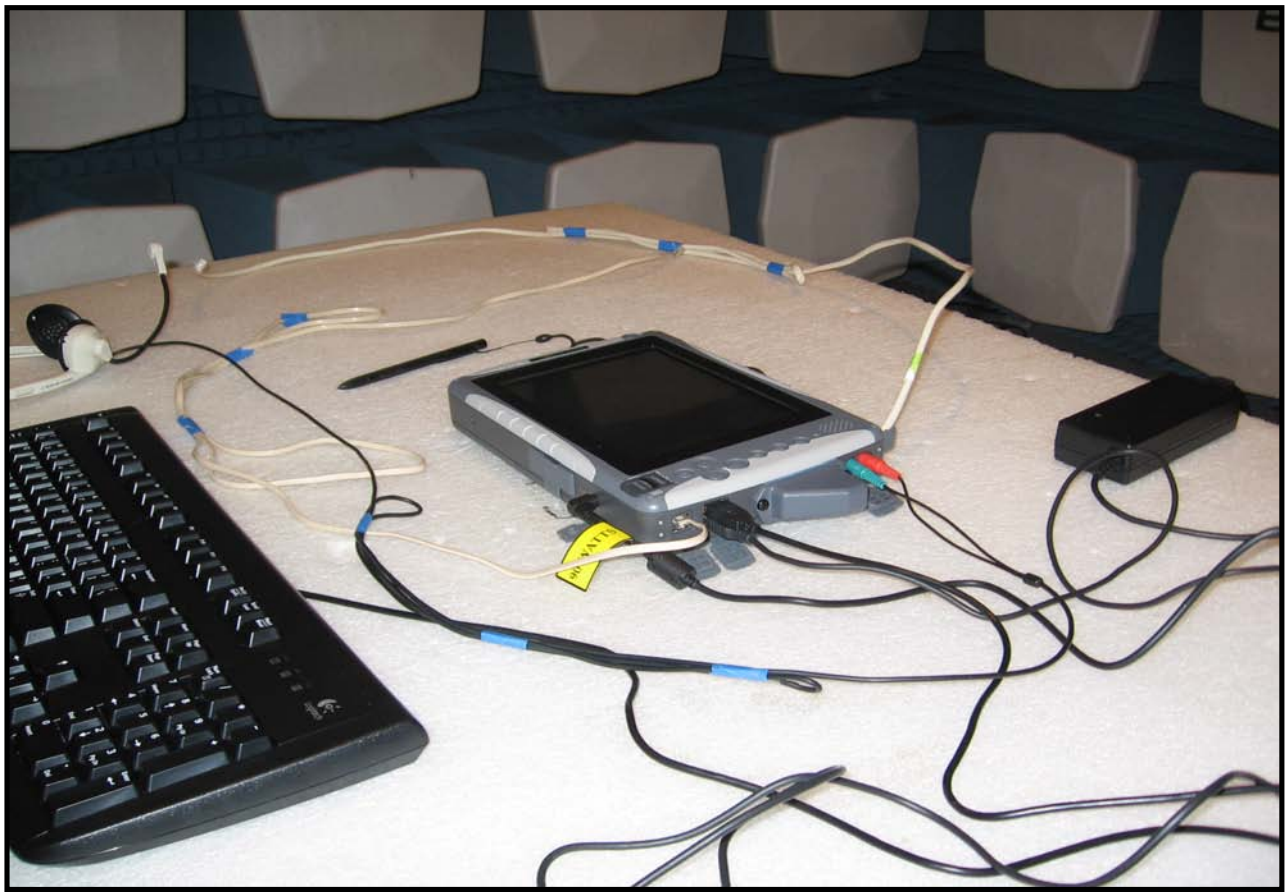
Run #	27
Configuration #	1
Results	Pass

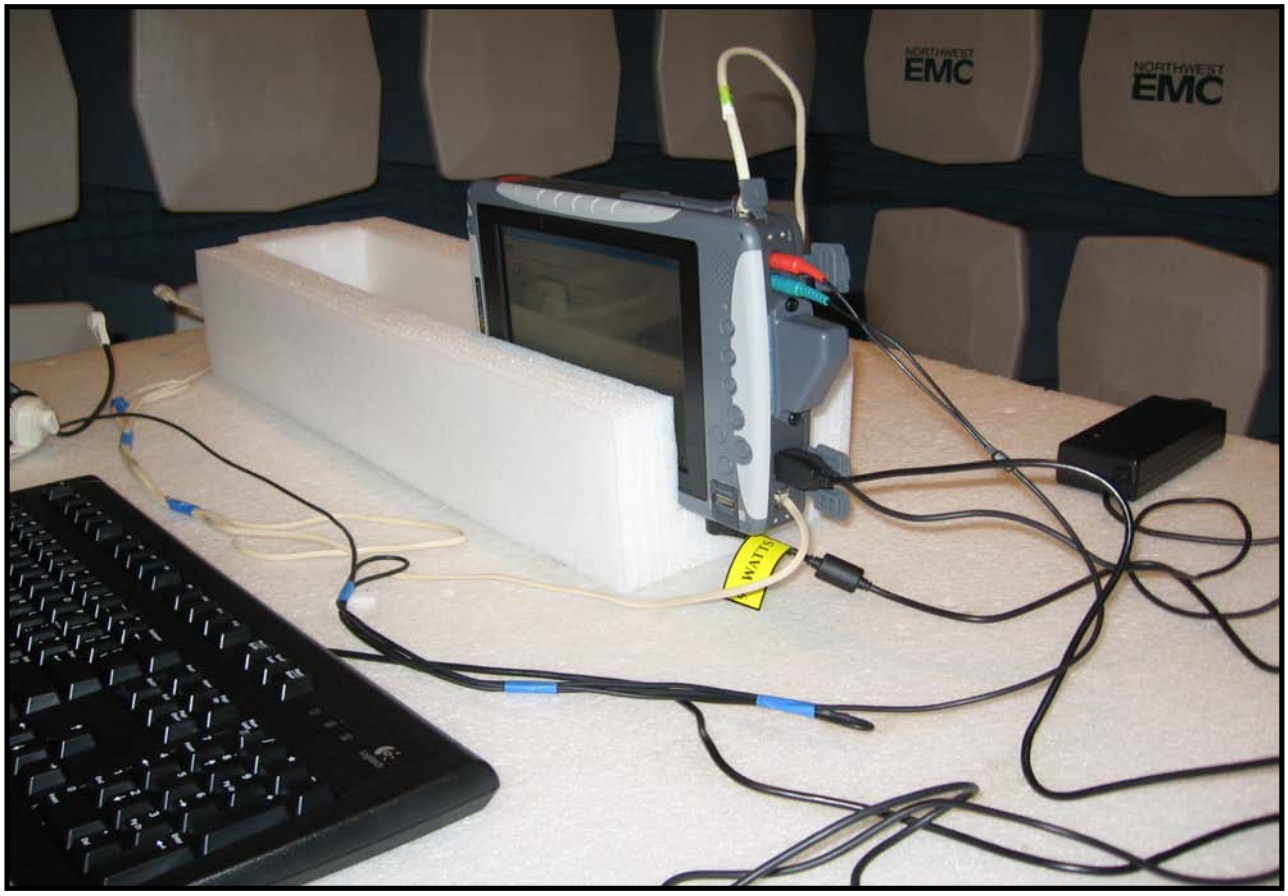
Signature



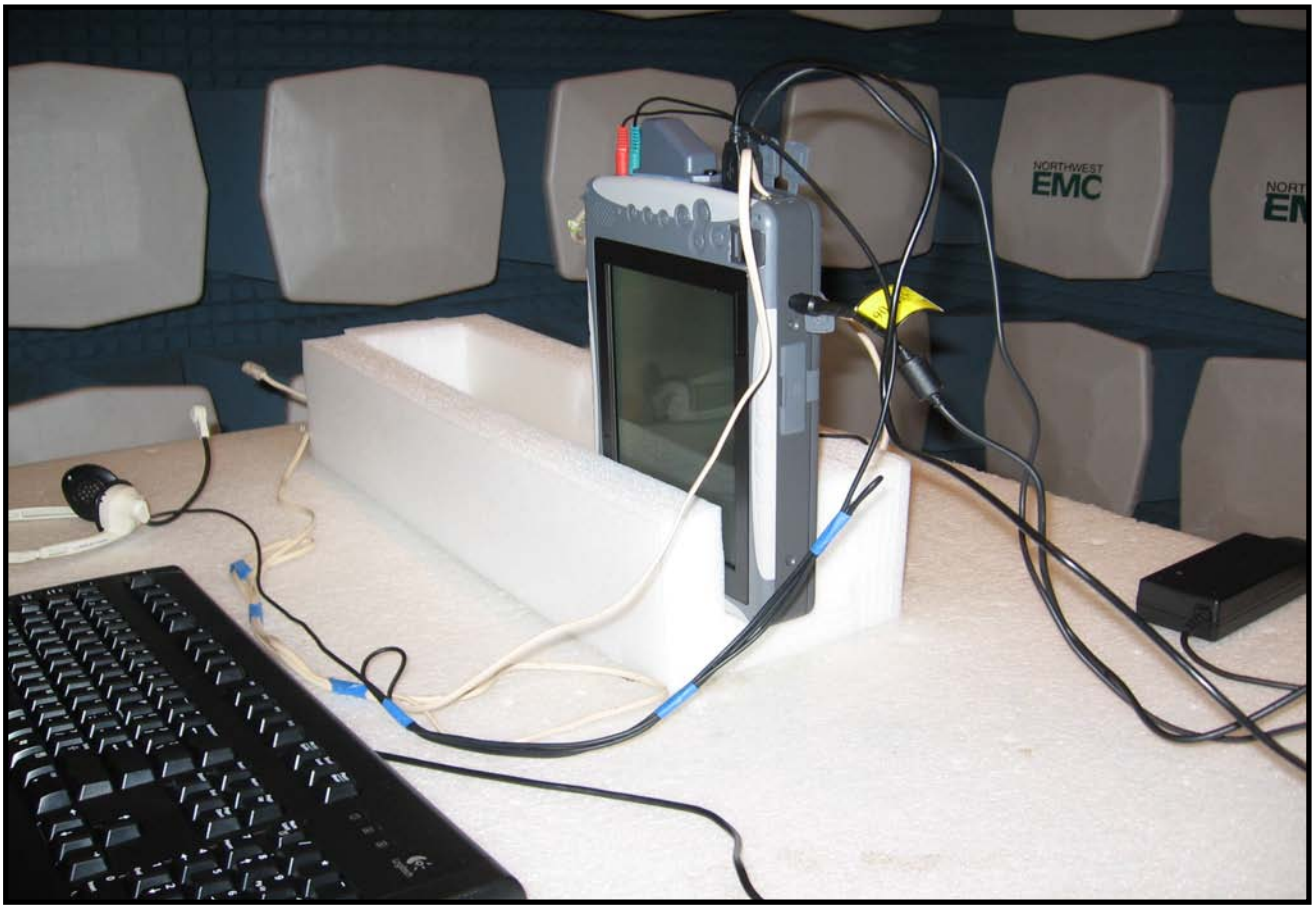
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
2483.830	49.6	2.2	317.0	1.2	0.0	20.0	V-Horn	PK	0.0	71.8	74.0	-2.2	802.11(n), 6Mbps, Chain A, HT0, Tablet Portrait mode, (right side facing up).
2483.957	47.8	2.2	327.0	1.0	0.0	20.0	H-Horn	PK	0.0	70.0	74.0	-4.0	802.11(n), 6Mbps, Chain A, HT0, Tablet Vertical.
2482.837	26.1	2.2	317.0	1.2	0.0	20.0	V-Horn	AV	0.0	48.3	54.0	-5.7	802.11(n), 6Mbps, Chain A, HT0, Tablet Portrait mode, (right side facing up).
2484.293	25.9	2.2	327.0	1.0	0.0	20.0	H-Horn	AV	0.0	48.1	54.0	-5.9	802.11(n), 6Mbps, Chain A, HT0, Tablet Vertical.
2483.630	44.7	2.2	278.0	1.2	0.0	20.0	V-Horn	PK	0.0	66.9	74.0	-7.1	802.11(n), 6Mbps, Chain A, HT0, Tablet Vertical.
2484.313	44.3	2.2	306.0	1.1	0.0	20.0	V-Horn	PK	0.0	66.5	74.0	-7.5	802.11(n), 6Mbps, Chain A, HT0, Tablet Horizontal.
2483.123	24.2	2.2	306.0	1.1	0.0	20.0	V-Horn	AV	0.0	46.4	54.0	-7.6	802.11(n), 6Mbps, Chain A, HT0, Tablet Horizontal.
2483.757	24.1	2.2	287.0	1.0	0.0	20.0	H-Horn	AV	0.0	46.3	54.0	-7.7	802.11(n), 6Mbps, Chain A, HT0, Tablet Horizontal.
2484.133	24.1	2.2	278.0	1.2	0.0	20.0	V-Horn	AV	0.0	46.3	54.0	-7.7	802.11(n), 6Mbps, Chain A, HT0, Tablet Vertical.
2483.467	23.7	2.2	207.0	1.0	0.0	20.0	H-Horn	AV	0.0	45.9	54.0	-8.1	802.11(n), 6Mbps, Chain A, HT0, Tablet Portrait mode, (right side facing up).
2483.597	23.2	2.2	268.0	1.1	0.0	20.0	V-Horn	AV	0.0	45.4	54.0	-8.6	802.11(n), 6Mbps, Chain AB, HT8, Tablet Portrait mode, (right side facing up).
2483.620	23.1	2.2	294.0	1.2	0.0	20.0	V-Horn	AV	0.0	45.3	54.0	-8.7	802.11(n), 6Mbps, Chain AB, HT8, Tablet Horizontal.
2485.367	43.0	2.2	207.0	1.0	0.0	20.0	H-Horn	PK	0.0	65.2	74.0	-8.8	802.11(n), 6Mbps, Chain A, HT0, Tablet Portrait mode, (right side facing up).
2483.503	22.8	2.2	335.0	3.5	0.0	20.0	H-Horn	AV	0.0	45.0	54.0	-9.0	802.11(n), 6Mbps, Chain AB, HT8, Tablet Vertical.
2484.453	22.8	2.2	46.0	1.0	0.0	20.0	H-Horn	AV	0.0	45.0	54.0	-9.0	802.11(n), 6Mbps, Chain AB, HT8, Tablet Horizontal.
2485.480	22.7	2.2	21.0	2.5	0.0	20.0	V-Horn	AV	0.0	44.9	54.0	-9.1	802.11(n), 6Mbps, Chain AB, HT8, Tablet Vertical.
2485.917	22.7	2.2	13.0	3.6	0.0	20.0	H-Horn	AV	0.0	44.9	54.0	-9.1	802.11(n), 6Mbps, Chain AB, HT8, Tablet Portrait mode, (right side facing up).
2483.823	40.6	2.2	287.0	1.0	0.0	20.0	H-Horn	PK	0.0	62.8	74.0	-11.2	802.11(n), 6Mbps, Chain A, HT0, Tablet Horizontal.
2485.380	37.2	2.2	268.0	1.1	0.0	20.0	V-Horn	PK	0.0	59.4	74.0	-14.6	802.11(n), 6Mbps, Chain AB, HT8, Tablet Portrait mode, (right side facing up).
2485.427	36.4	2.2	294.0	1.2	0.0	20.0	V-Horn	PK	0.0	58.6	74.0	-15.4	802.11(n), 6Mbps, Chain AB, HT8, Tablet Horizontal.






NORTHWEST
EMC
NORTHWEST
EMC

Spurious Radiated Emissions



RADIATED EMISSIONS

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

MODES OF OPERATION
802.11(a), 6Mbps
802.11(a), 36Mbps
802.11(a), 54Mbps
802.11(n), 5GHz band, 20MHz wide, HT0
802.11(n), 5GHz band, 20MHz wide, HT8
802.11(n), 5GHz band, 40MHz wide, HTO
802.11(n), 5GHz band, 40MHz wide, HT8

ANTENNAS INVESTIGATED
Chain A
Chain B
Chain AB
CHANNELS INVESTIGATED
Channel 149, 5745MHz
Channel 157, 5785MHz
Channel 165, 5825MHz
Channel 151, 5755MHz (40MHz wide only)
Channel 159, 5795MHz (40MHz wide only)

POWER SETTINGS INVESTIGATED
120VAC/60Hz

FREQUENCY RANGE INVESTIGATED			
Start Frequency	30 MHz	Stop Frequency	40 GHz

CLOCKS AND OSCILLATORS
Not provided at time of test.

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
5.8 GHz Notch Filter	Micro-Tronics	BRC50705	HFQ	1/12/2007	13
High Pass Filter	Micro-Tronics	HPM50112	HGA	5/22/2007	13
5.25 GHz Notch Filter	K&L Microwave	8N50-5250/X200-0/0	HFK	4/3/2006	24
Band Reject Filter	Micro-Tronics	BRC50704	HGB	5/22/2007	13
EV01 cable B			EVE	7/25/2007	13
Pre-Amplifier	Miteq	JS4-26004000-50-5A	AON	7/25/2007	13
Pre-Amplifier	Miteq	JS4-26004000-40-8P	APV	7/25/2007	13
Antenna, Horn	EMCO	3160-10	AHI	NCR	0
EV01 Cable D			EVD	7/25/2007	13
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	7/25/2007	13
Antenna, Horn	EMCO	3160-09	AHG	NCR	0
EV01 cables g,h,I			EVF	10/23/2007	13
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	6/22/2007	13
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVD	6/22/2007	13
Antenna, Horn	ETS	3160-08	AHV	NCR	0
Antenna, Horn	ETS	3160-07	AHU	NCR	0
EV01 cables g,h,j			EVB	10/23/2007	13
EV01 cables c,g, h			EVA	10/23/2007	13
Low Pass Filter 0-1000 MHz	Micro-Tronics	LPM50004	LFD	12/29/2006	13
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	5/10/2007	13
Antenna, Horn	EMCO	3115	AHC	8/24/2006	24
Pre-Amplifier	Miteq	AM-1616-1000	AOL	12/29/2006	13
Antenna, Biconilog	EMCO	3141	AXE	12/28/2005	24
Spectrum Analyzer	Agilent	E4446A	AAT	12/7/2006	13

MEASUREMENT BANDWIDTHS

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

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

TEST DESCRIPTION

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

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/20/07
Customer:	Spectrum Technology, Inc.	Temperature:	21
Attendees:	Rod Munro	Humidity:	36%
Project:	None	Barometric Pres.:	30.15
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV11

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074

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

COMMENTS

EUT OPERATING MODES

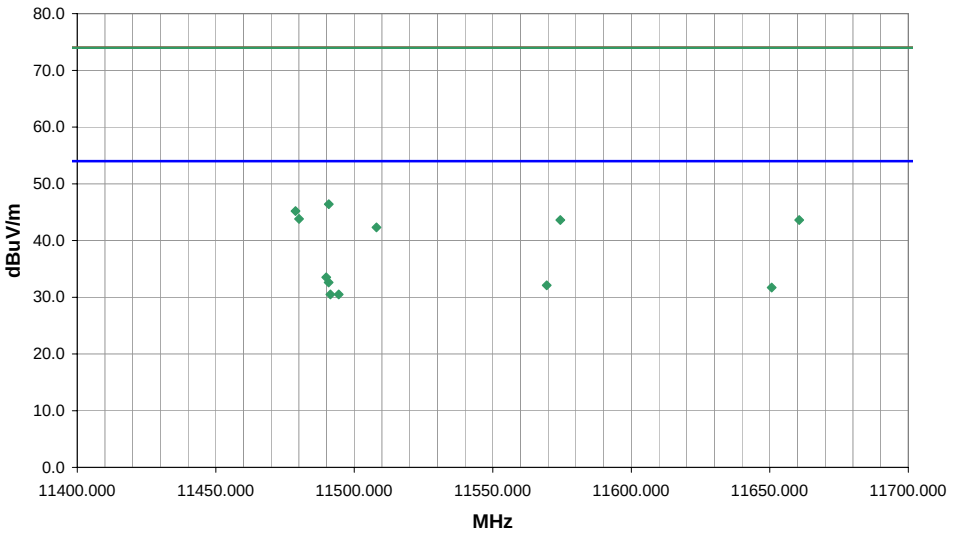
802.11(a), Chain A

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	3
Configuration #	1
Results	Pass

Signature Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
11489.870	37.5	-4.0	189.0	1.0	3.0	0.0	V-Horn	AV	0.0	33.5	54.0	-20.5	Ch. 149, 6 Mbps, Tablet horizontal
11490.730	36.6	-4.0	227.0	1.0	3.0	0.0	V-Horn	AV	0.0	32.6	54.0	-21.4	Ch. 149, 36 Mbps, Tablet horizontal
11569.470	35.9	-3.8	97.0	1.0	3.0	0.0	V-Horn	AV	0.0	32.1	54.0	-21.9	Ch. 157, 6 Mbps, Tablet horizontal
11650.670	35.1	-3.4	222.0	1.0	3.0	0.0	V-Horn	AV	0.0	31.7	54.0	-22.3	Ch. 165, 6 Mbps, Tablet horizontal
11491.400	34.4	-3.9	108.0	1.5	3.0	0.0	H-Horn	AV	0.0	30.5	54.0	-23.5	Ch. 149, 6 Mbps, Tablet on end
11494.400	34.5	-4.0	254.0	1.0	3.0	0.0	V-Horn	AV	0.0	30.5	54.0	-23.5	Ch. 149, 54 Mbps, Tablet horizontal
11490.800	50.4	-4.0	189.0	1.0	3.0	0.0	V-Horn	PK	0.0	46.4	74.0	-27.6	Ch. 149, 6 Mbps, Tablet horizontal
11478.800	49.2	-4.0	227.0	1.0	3.0	0.0	V-Horn	PK	0.0	45.2	74.0	-28.8	Ch. 149, 36 Mbps, Tablet horizontal
11480.070	47.8	-4.0	254.0	1.0	3.0	0.0	V-Horn	PK	0.0	43.8	74.0	-30.2	Ch. 149, 54 Mbps, Tablet horizontal
11574.400	47.4	-3.8	97.0	1.0	3.0	0.0	V-Horn	PK	0.0	43.6	74.0	-30.4	Ch. 157, 6 Mbps, Tablet horizontal
11660.600	47.0	-3.4	222.0	1.0	3.0	0.0	V-Horn	PK	0.0	43.6	74.0	-30.4	Ch. 165, 6 Mbps, Tablet horizontal
11508.000	46.3	-4.0	108.0	1.5	3.0	0.0	H-Horn	PK	0.0	42.3	74.0	-31.7	Ch. 149, 6 Mbps, Tablet on end

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/20/07
Customer:	Spectrum Technology, Inc.	Temperature:	21
Attendees:	Rod Munro	Humidity:	36%
Project:	None	Barometric Pres.:	30.15
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV11

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074

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

COMMENTS

EUT OPERATING MODES

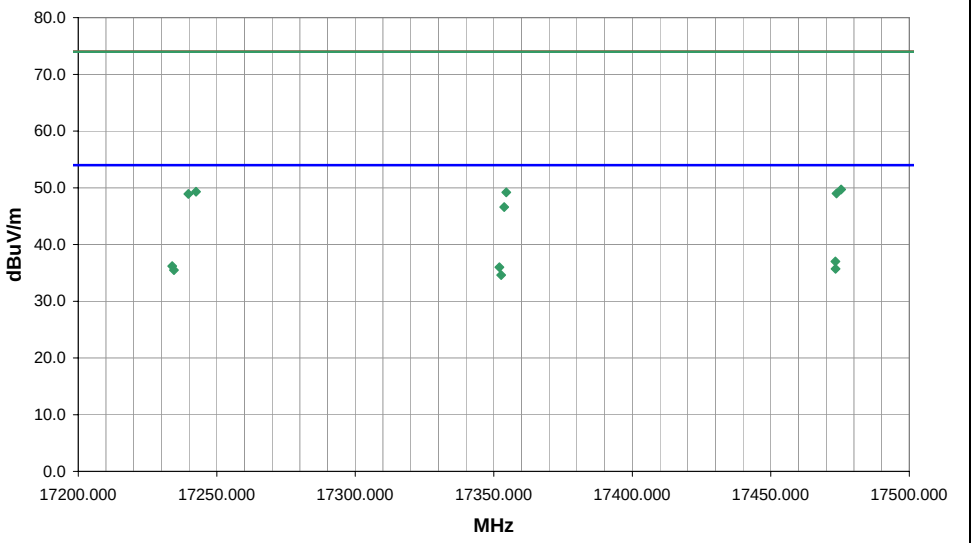
802.11(a), Chain A

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	5
Configuration #	1
Results	Pass

Signature Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
17473.330	30.4	6.6	8.0	1.0	3.0	0.0	V-Horn	AV	0.0	37.0	54.0	-17.0	Ch. 165, 6 Mbps, Tablet horizontal
17233.930	29.7	6.5	275.0	1.0	3.0	0.0	V-Horn	AV	0.0	36.2	54.0	-17.8	Ch. 149, 6 Mbps, Tablet horizontal
17352.000	29.5	6.5	265.0	1.0	3.0	0.0	V-Horn	AV	0.0	36.0	54.0	-18.0	Ch. 157, 6 Mbps, Tablet horizontal
17473.400	29.2	6.5	337.0	1.0	3.0	0.0	H-Horn	AV	0.0	35.7	54.0	-18.3	Ch. 165, 6 Mbps, Tablet on end
17234.530	29.0	6.5	150.0	1.0	3.0	0.0	H-Horn	AV	0.0	35.5	54.0	-18.5	Ch. 149, 6 Mbps, Tablet on end
17352.670	28.1	6.5	287.0	1.0	3.0	0.0	H-Horn	AV	0.0	34.6	54.0	-19.4	Ch. 157, 6 Mbps, Tablet on end
17475.400	43.1	6.6	8.0	1.0	3.0	0.0	V-Horn	PK	0.0	49.7	74.0	-24.3	Ch. 165, 6 Mbps, Tablet horizontal
17242.530	42.7	6.6	275.0	1.0	3.0	0.0	V-Horn	PK	0.0	49.3	74.0	-24.7	Ch. 149, 6 Mbps, Tablet horizontal
17354.530	42.7	6.5	265.0	1.0	3.0	0.0	V-Horn	PK	0.0	49.2	74.0	-24.8	Ch. 157, 6 Mbps, Tablet horizontal
17473.730	42.4	6.6	337.0	1.0	3.0	0.0	H-Horn	PK	0.0	49.0	74.0	-25.0	Ch. 165, 6 Mbps, Tablet on end
17239.730	42.3	6.6	150.0	1.0	3.0	0.0	H-Horn	PK	0.0	48.9	74.0	-25.1	Ch. 149, 6 Mbps, Tablet on end
17353.730	40.1	6.5	287.0	1.0	3.0	0.0	H-Horn	PK	0.0	46.6	74.0	-27.4	Ch. 157, 6 Mbps, Tablet on end

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(a)/(b)/(g) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	12/03/07
Customer:	Spectrum Technology, Inc.	Temperature:	22
Attendees:	Rod Munro	Humidity:	39%
Project:	None	Barometric Pres.:	1005.2
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074

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

COMMENTS

EUT OPERATING MODES

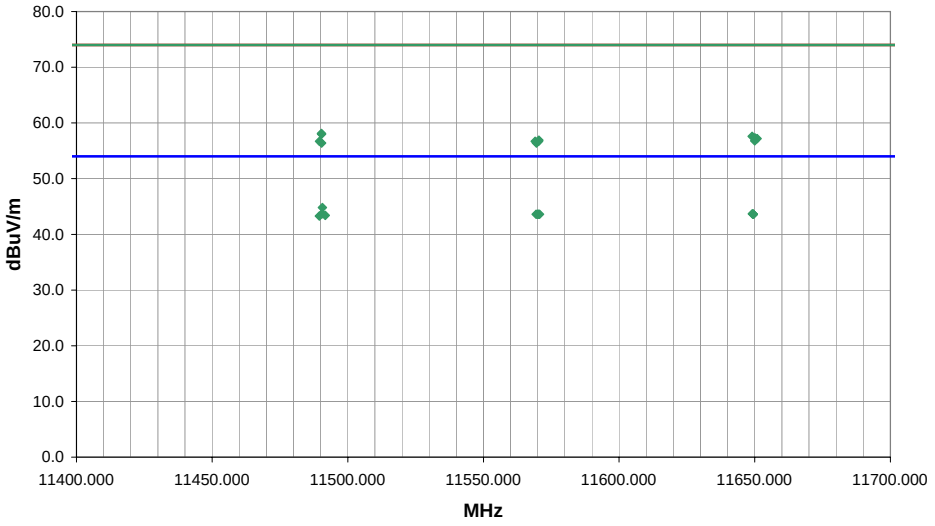
Transmitting 802.11(n), 20 MHz wide. See comments for channel and data rate.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	32
Configuration #	1
Results	Pass

Signature Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
11490.630	24.6	20.2	201.0	1.0	3.0	0.0	H-Horn	AV	0.0	44.8	54.0	-9.2	Ch. 149, HT0, Chain A, Tablet vertical
11490.510	23.5	20.2	207.0	1.2	3.0	0.0	V-Horn	AV	0.0	43.7	54.0	-10.3	Ch. 149, HT8, Chain AB, Tablet vertical
11649.120	23.4	20.3	276.0	3.1	3.0	0.0	V-Horn	AV	0.0	43.7	54.0	-10.3	Ch. 165, HT0, Chain A, Tablet vertical
11649.470	23.3	20.3	355.0	1.0	3.0	0.0	H-Horn	AV	0.0	43.6	54.0	-10.4	Ch. 165, HT0, Chain A, Tablet vertical
11649.480	23.3	20.3	128.0	3.3	3.0	0.0	H-Horn	AV	0.0	43.6	54.0	-10.4	Ch. 165, HT8, Chain AB, Tablet vertical
11569.430	23.4	20.2	245.0	3.5	3.0	0.0	H-Horn	AV	0.0	43.6	54.0	-10.4	Ch. 157, HT0, Chain A, Tablet vertical
11570.050	23.4	20.2	7.0	3.5	3.0	0.0	V-Horn	AV	0.0	43.6	54.0	-10.4	Ch. 157, HT8, Chain AB, Tablet vertical
11570.220	23.4	20.2	132.0	1.0	3.0	0.0	V-Horn	AV	0.0	43.6	54.0	-10.4	Ch. 157, HT0, Chain A, Tablet vertical
11570.660	23.4	20.2	133.0	3.5	3.0	0.0	H-Horn	AV	0.0	43.6	54.0	-10.4	Ch. 157, HT8, Chain AB, Tablet vertical
11649.450	23.3	20.3	239.0	3.0	3.0	0.0	V-Horn	AV	0.0	43.6	54.0	-10.4	Ch. 165, HT8, Chain AB, Tablet vertical
11491.730	23.2	20.2	112.0	2.1	3.0	0.0	H-Horn	AV	0.0	43.4	54.0	-10.6	Ch. 149, HT8, Chain AB, Tablet vertical
11489.550	23.1	20.2	11.0	1.2	3.0	0.0	V-Horn	AV	0.0	43.3	54.0	-10.7	Ch. 149, HT0, Chain A, Tablet vertical
11490.260	37.9	20.2	201.0	1.0	3.0	0.0	H-Horn	PK	0.0	58.1	74.0	-15.9	Ch. 149, HT0, Chain A, Tablet vertical
11490.360	37.8	20.2	207.0	1.2	3.0	0.0	V-Horn	PK	0.0	58.0	74.0	-16.0	Ch. 149, HT8, Chain AB, Tablet vertical
11649.060	37.3	20.3	128.0	3.3	3.0	0.0	H-Horn	PK	0.0	57.6	74.0	-16.4	Ch. 165, HT8, Chain AB, Tablet vertical
11650.090	37.0	20.3	276.0	3.1	3.0	0.0	V-Horn	PK	0.0	57.3	74.0	-16.7	Ch. 165, HT0, Chain A, Tablet vertical
11650.900	36.9	20.3	239.0	3.0	3.0	0.0	V-Horn	PK	0.0	57.2	74.0	-16.8	Ch. 165, HT8, Chain AB, Tablet vertical
11570.410	36.7	20.2	7.0	3.5	3.0	0.0	V-Horn	PK	0.0	56.9	74.0	-17.1	Ch. 157, HT8, Chain AB, Tablet vertical
11649.980	36.5	20.3	355.0	1.0	3.0	0.0	H-Horn	PK	0.0	56.8	74.0	-17.2	Ch. 165, HT0, Chain A, Tablet vertical
11569.090	36.5	20.2	245.0	3.5	3.0	0.0	H-Horn	PK	0.0	56.7	74.0	-17.3	Ch. 157, HT0, Chain A, Tablet vertical

NORTHWEST EMC

RADIATED EMISSIONS DATA SHEET

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(a)/(b)/(g) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	12/03/07
Customer:	Spectrum Technology, Inc.	Temperature:	22
Attendees:	Rod Munro	Humidity:	39%
Project:	None	Barometric Pres.:	1005.2
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074

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

COMMENTS

EUT OPERATING MODES

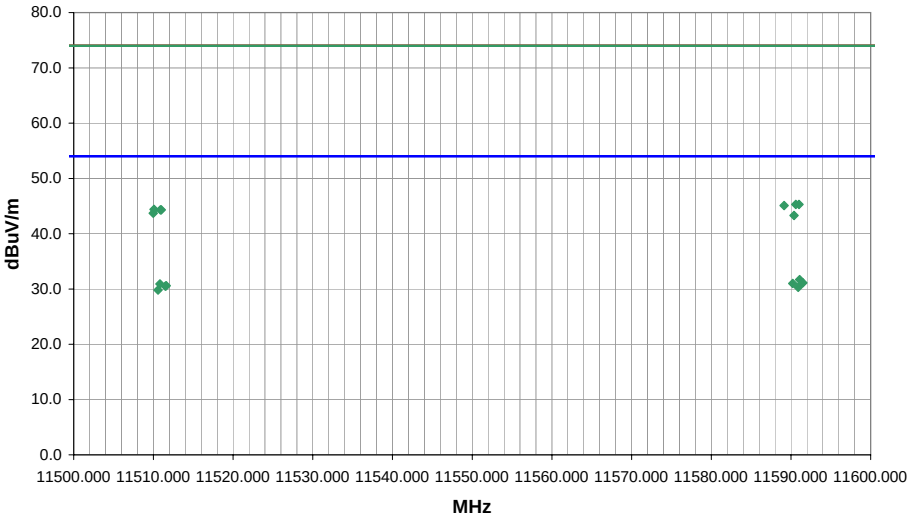
Transmitting 802.11(n), 40 MHz wide. See comments for channel and data rate.

DEVIATIONS FROM TEST STANDARD

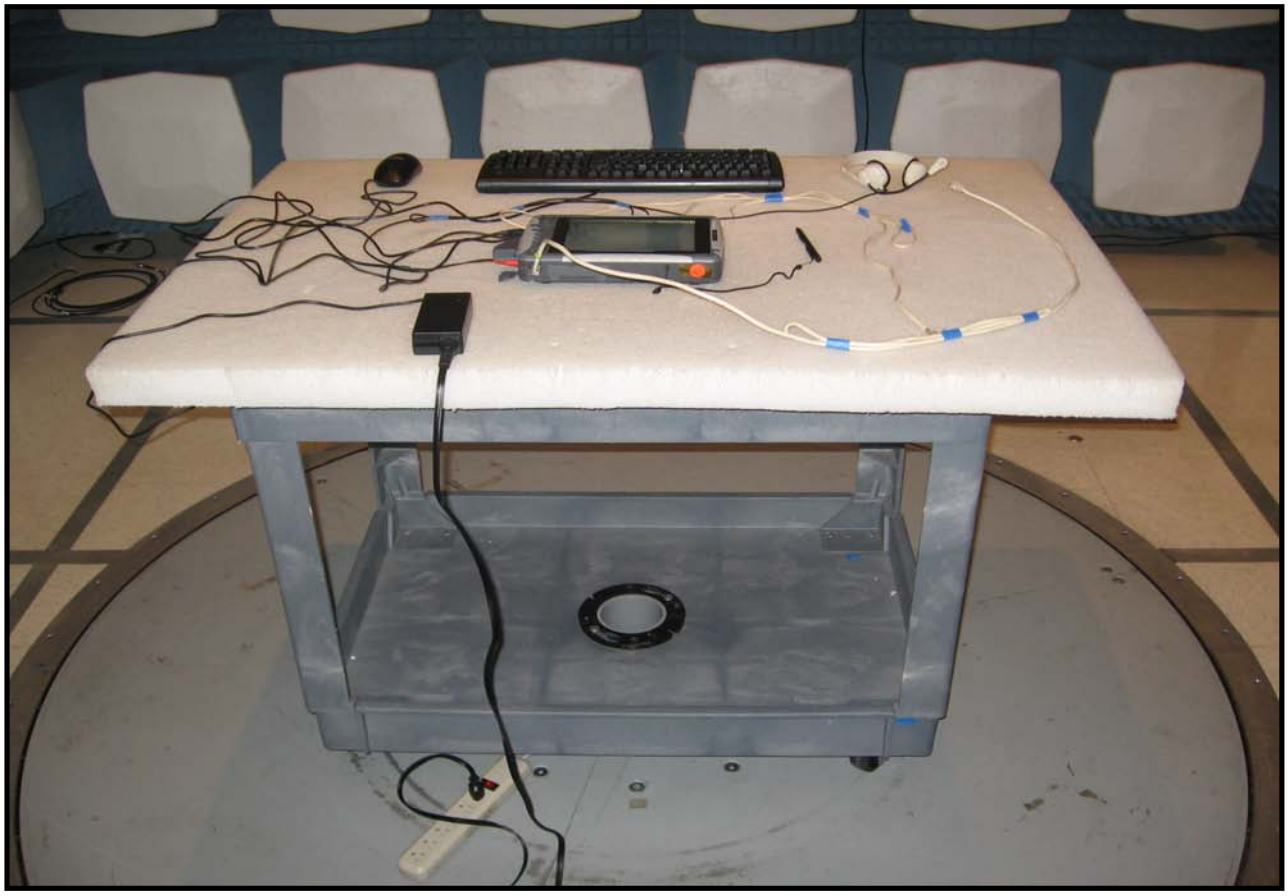
No deviations.

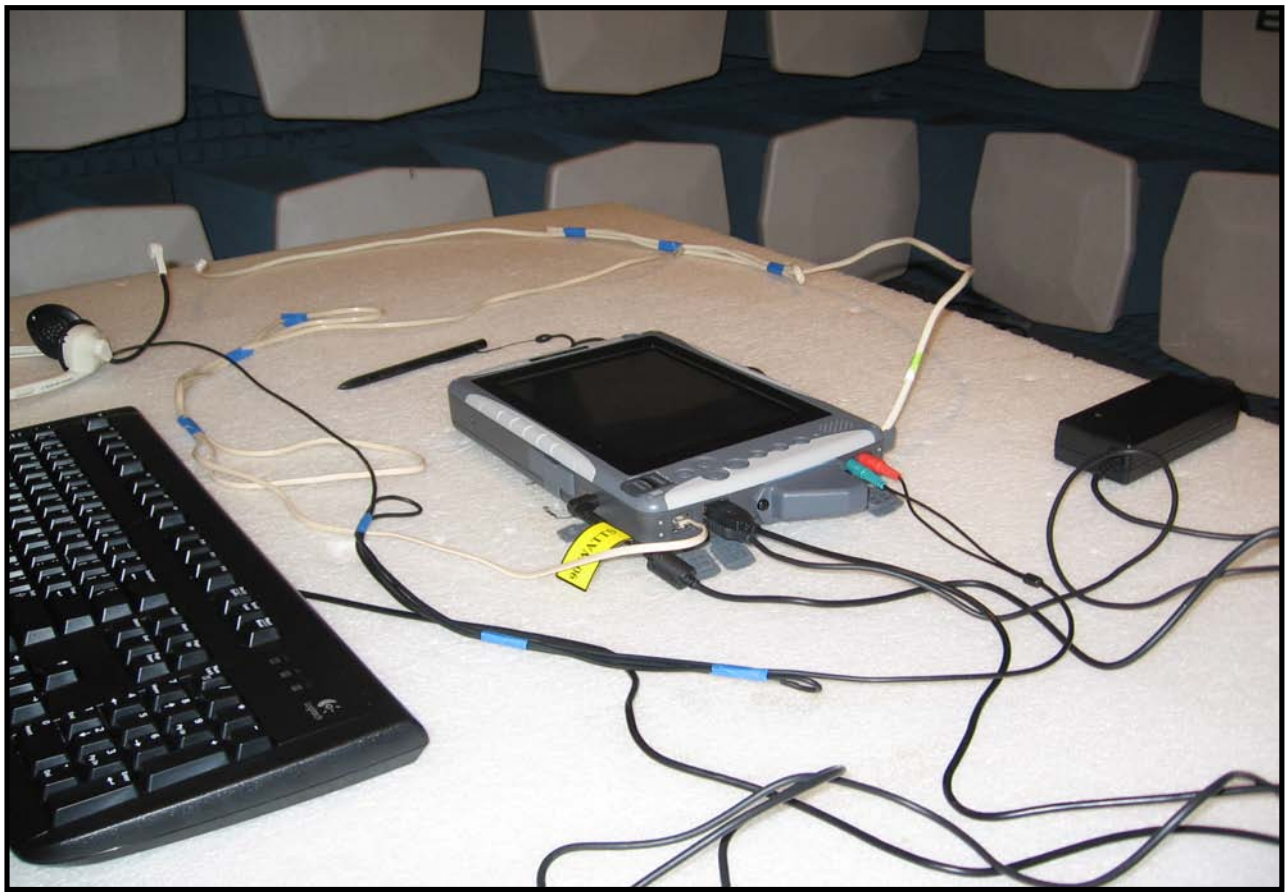
Run #	34
Configuration #	1
Results	Pass

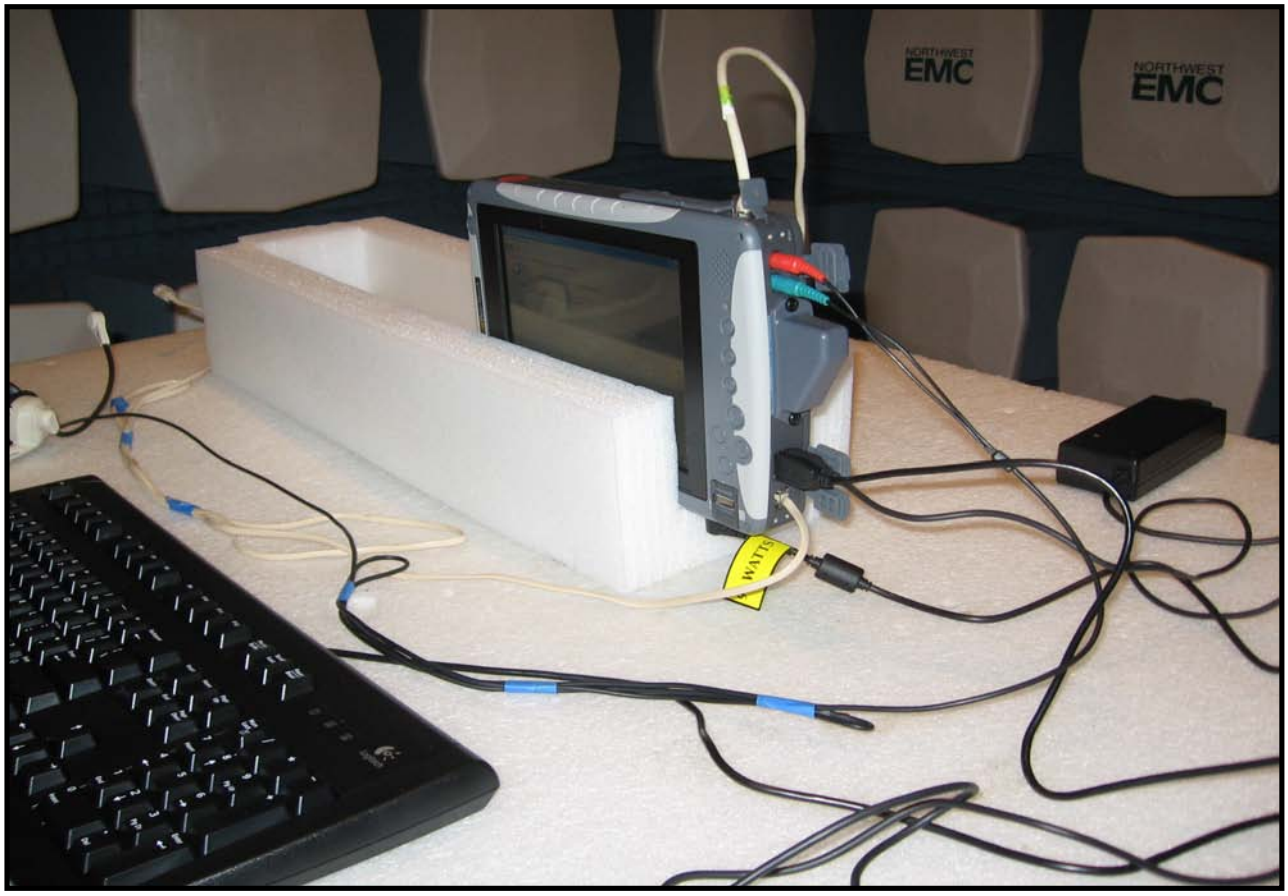
Signature Holly Ashkannejhad

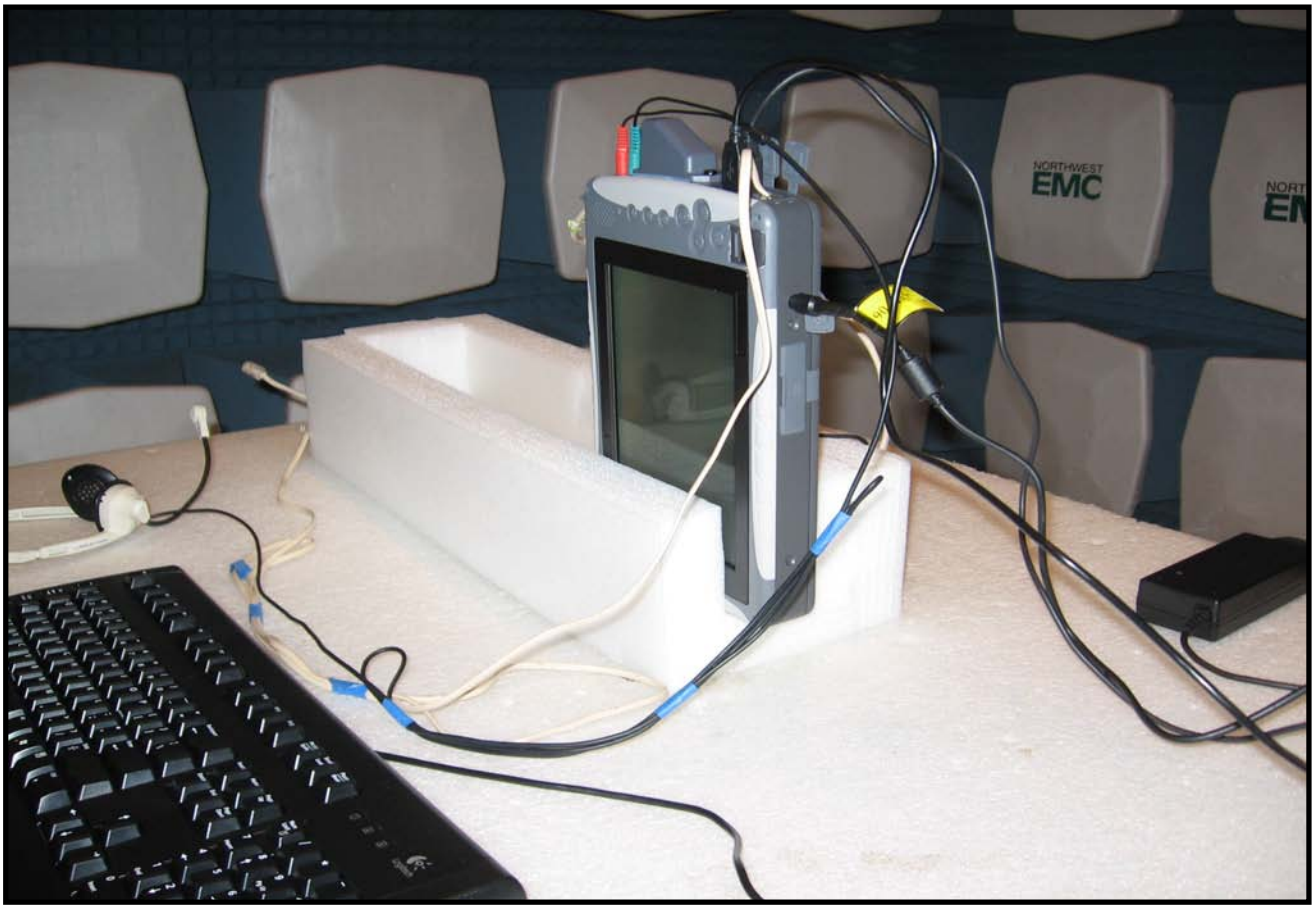


Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
11591.090	35.4	-3.7	167.0	1.0	3.0	0.0	V-Horn	AV	0.0	31.7	54.0	-22.3	Ch. 159, HT8, Chain AB, Tablet horizontal
11591.480	34.8	-3.7	202.0	1.0	3.0	0.0	H-Horn	AV	0.0	31.1	54.0	-22.9	Ch. 159, HT8, Chain AB, Tablet vertical
11590.230	34.7	-3.7	166.0	1.0	3.0	0.0	V-Horn	AV	0.0	31.0	54.0	-23.0	Ch. 159, HT0, Chain A, Tablet horizontal
11510.830	34.8	-3.9	142.0	1.0	3.0	0.0	V-Horn	AV	0.0	30.9	54.0	-23.1	Ch. 151, HT0, Chain A, Tablet horizontal
11511.610	34.5	-3.9	220.0	1.0	3.0	0.0	H-Horn	AV	0.0	30.6	54.0	-23.4	Ch. 151, HT8, Chain AB, Tablet vertical
11511.510	34.4	-3.9	200.0	1.0	3.0	0.0	H-Horn	AV	0.0	30.5	54.0	-23.5	Ch. 151, HT0, Chain A, Tablet vertical
11590.900	34.0	-3.7	205.0	1.0	3.0	0.0	H-Horn	AV	0.0	30.3	54.0	-23.7	Ch. 159, HT0, Chain A, Tablet vertical
11510.580	33.7	-3.9	12.0	1.0	3.0	0.0	V-Horn	AV	0.0	29.8	54.0	-24.2	Ch. 151, HT8, Chain AB, Tablet horizontal
11590.600	49.0	-3.7	166.0	1.0	3.0	0.0	V-Horn	PK	0.0	45.3	74.0	-28.7	Ch. 159, HT0, Chain A, Tablet horizontal
11591.000	49.0	-3.7	167.0	1.0	3.0	0.0	V-Horn	PK	0.0	45.3	74.0	-28.7	Ch. 159, HT8, Chain AB, Tablet horizontal
11589.140	48.8	-3.7	202.0	1.0	3.0	0.0	H-Horn	PK	0.0	45.1	74.0	-28.9	Ch. 159, HT8, Chain AB, Tablet vertical
11510.080	48.3	-3.9	142.0	1.0	3.0	0.0	V-Horn	PK	0.0	44.4	74.0	-29.6	Ch. 151, HT0, Chain A, Tablet horizontal
11510.890	48.2	-3.9	200.0	1.0	3.0	0.0	H-Horn	PK	0.0	44.3	74.0	-29.7	Ch. 151, HT0, Chain A, Tablet vertical
11510.980	48.2	-3.9	220.0	1.0	3.0	0.0	H-Horn	PK	0.0	44.3	74.0	-29.7	Ch. 151, HT8, Chain AB, Tablet vertical
11509.980	47.6	-3.9	12.0	1.0	3.0	0.0	V-Horn	PK	0.0	43.7	74.0	-30.3	Ch. 151, HT8, Chain AB, Tablet horizontal
11590.390	47.0	-3.7	205.0	1.0	3.0	0.0	H-Horn	PK	0.0	43.3	74.0	-30.7	Ch. 159, HT0, Chain A, Tablet vertical






NORTHWEST
EMC
NORTHWEST
EMC


NORTHWEST
EMC

Spurious Radiated Emissions

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

MODES OF OPERATION
802.11(a), 6Mbps
802.11(a), 36Mbps
802.11(a), 54Mbps
802.11(n), 5GHz band, 20MHz wide, HT0
802.11(n), 5GHz band, 20MHz wide, HT8
802.11(n), 5GHz band, 40MHz wide, HT0
802.11(n), 5GHz band, 40MHz wide, HT8

ANTENNAS INVESTIGATED
Chain A
Chain B
Chain AB

CHANNELS INVESTIGATED
Channel 36, 5180MHz
Channel 48, 5240MHz
Channel 52, 5260MHz
Channel 64, 5320MHz
Channel 38, 5190MHz (40MHz wide only)
Channel 46, 5230MHz (40MHz wide only)
Channel 54, 5270MHz (40MHz wide only)
Channel 62, 5310MHz (40MHz wide only)

POWER SETTINGS INVESTIGATED
120VAC/60Hz

FREQUENCY RANGE INVESTIGATED			
Start Frequency	30 MHz	Stop Frequency	40 GHz

CLOCKS AND OSCILLATORS
Not provided at time of test.

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
EV01 cable B			EVE	7/25/2007	13
Pre-Amplifier	Miteq	JS4-26004000-50-5A	AON	7/25/2007	13
Pre-Amplifier	Miteq	JS4-26004000-40-8P	APV	7/25/2007	13
Antenna, Horn	EMCO	3160-10	AHI	NCR	0
EV01 Cable D			EVD	7/25/2007	13
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	7/25/2007	13
Antenna, Horn	EMCO	3160-09	AHG	NCR	0
5.8 GHz Notch Filter	Micro-Tronics	BRC50705	HFQ	1/12/2007	13
High Pass Filter	Micro-Tronics	HPM50112	HGA	5/22/2007	13
5.25 GHz Notch Filter	K&L Microwave	8N50-5250/X200-0/0	HFK	4/3/2006	24
Band Reject Filter	Micro-Tronics	BRC50704	HGB	5/22/2007	13
EV01 cables g,h,I			EVF	10/23/2007	13
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	6/22/2007	13
Pre-Amplifier	Miteq	AMF-6F-12001800-30-10P	AVD	6/22/2007	13
Antenna, Horn	ETS	3160-08	AHV	NCR	0
Antenna, Horn	ETS	3160-07	AHU	NCR	0
EV01 cables g,h,j			EVB	10/23/2007	13
EV01 cables c,g, h			EVA	10/23/2007	13
Low Pass Filter 0-1000 MHz	Micro-Tronics	LPM50004	LFD	12/29/2006	13
High Pass Filter	Micro-Tronics	HPM50111	HFO	12/29/2006	13
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	5/10/2007	13
Antenna, Horn	EMCO	3115	AHC	8/24/2006	24
Pre-Amplifier	Miteq	AM-1616-1000	AOL	12/29/2006	13
Antenna, Biconilog	EMCO	3141	AXE	12/28/2005	24
Spectrum Analyzer	Agilent	E4446A	AAT	12/7/2006	13

MEASUREMENT BANDWIDTHS

Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
0.01 - 0.15	1.0	0.2	0.2
0.15 - 30.0	10.0	9.0	9.0
30.0 - 1000	100.0	120.0	120.0
Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

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

TEST DESCRIPTION

The highest gain 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 C63.4:2003). 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.

NORTHWEST **EMC**

Spurious Radiated Emissions - Restricted Bands

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	**Work Order:**	SPTE0070
Serial Number:	SY720000658	**Date:**	11/20/07
Customer:	Spectrum Technology, Inc.	**Temperature:**	21
Attendees:	Rod Munro	**Humidity:**	36%
Project:	None	**Barometric Pres.:**	30.15
Tested by:	Rod Peloquin	**Power:** 120VAC/60Hz	**Job Site:** EV11

TEST SPECIFICATIONS	Test Method
FCC 15.209:2006	ANSI C63.4:2003

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

COMMENTS

EUT OPERATING MODES

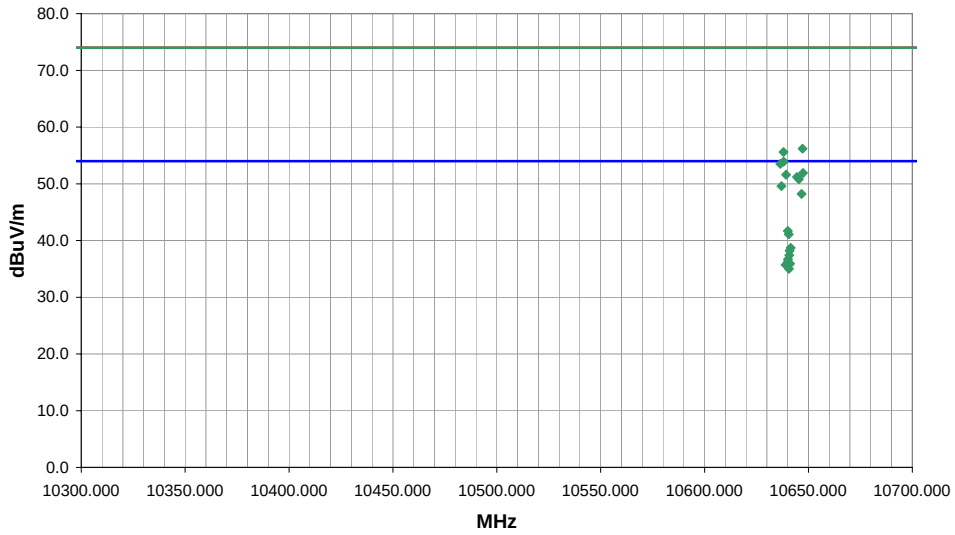
Transmitting 802.11(a), Chain A

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	1
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

NORTHWEST EMC

Spurious Radiated Emissions - Restricted Bands

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/20/07
Customer:	Spectrum Technology, Inc.	Temperature:	21
Attendees:	Rod Munro	Humidity:	36%
Project:	None	Barometric Pres.:	30.15
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV11

TEST SPECIFICATIONS	Test Method
FCC 15.209:2006	ANSI C63.4:2003

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

COMMENTS

EUT OPERATING MODES

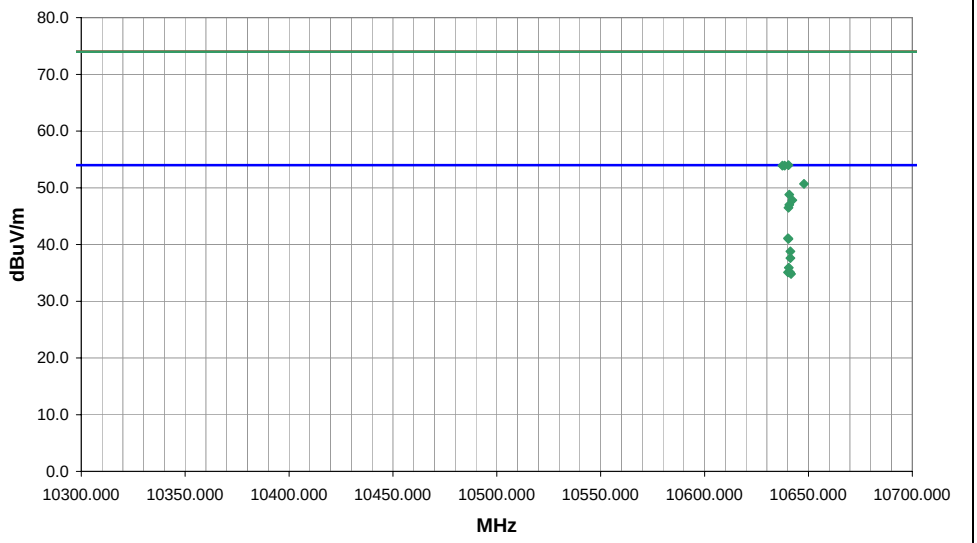
802.11(a), Chain B

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	2
Configuration #	1
Results	Pass

Signature Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
10640.200	47.3	-6.2	317.0	1.0	3.0	0.0	H-Horn	AV	0.0	41.1	54.0	-12.9	Ch. 64, 6 Mbps, Tablet on end
10640.400	47.2	-6.2	203.0	1.0	3.0	0.0	V-Horn	AV	0.0	41.0	54.0	-13.0	Ch. 64, 6 Mbps, Tablet horizontal
10641.330	45.0	-6.2	205.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.8	54.0	-15.2	Ch. 64, 36 Mbps, Tablet horizontal
10641.330	43.7	-6.1	330.0	1.0	3.0	0.0	H-Horn	AV	0.0	37.6	54.0	-16.4	Ch. 64, 36 Mbps, Tablet on end
10640.530	42.1	-6.2	297.0	1.0	3.0	0.0	H-Horn	AV	0.0	35.9	54.0	-18.1	Ch. 64, 6 Mbps, Tablet vertical
10641.200	41.3	-6.2	93.0	1.0	3.0	0.0	H-Horn	AV	0.0	35.1	54.0	-18.9	Ch. 64, 6 Mbps, Tablet horizontal
10640.130	41.3	-6.2	224.0	1.0	3.0	0.0	V-Horn	AV	0.0	35.1	54.0	-18.9	Ch. 64, 6 Mbps, Tablet on end
10641.600	41.0	-6.2	88.0	1.0	3.0	0.0	V-Horn	AV	0.0	34.8	54.0	-19.2	Ch. 64, 6 Mbps, Tablet vertical
10640.400	60.2	-6.2	317.0	1.0	3.0	0.0	H-Horn	PK	0.0	54.0	74.0	-20.0	Ch. 64, 6 Mbps, Tablet on end
10637.470	60.1	-6.2	205.0	1.0	3.0	0.0	V-Horn	PK	0.0	53.9	74.0	-20.1	Ch. 64, 36 Mbps, Tablet horizontal
10638.530	60.1	-6.2	203.0	1.0	3.0	0.0	V-Horn	PK	0.0	53.9	74.0	-20.1	Ch. 64, 6 Mbps, Tablet horizontal
10647.870	56.9	-6.2	330.0	1.0	3.0	0.0	H-Horn	PK	0.0	50.7	74.0	-23.3	Ch. 64, 36 Mbps, Tablet on end

NORTHWEST EMC

Spurious Radiated Emissions - Restricted Bands

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/20/07
Customer:	Spectrum Technology, Inc.	Temperature:	21
Attendees:	Rod Munro	Humidity:	36%
Project:	None	Barometric Pres.:	30.15
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV11

TEST SPECIFICATIONS	Test Method
FCC 15.209:2006	ANSI C63.4:2003

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

COMMENTS

EUT OPERATING MODES

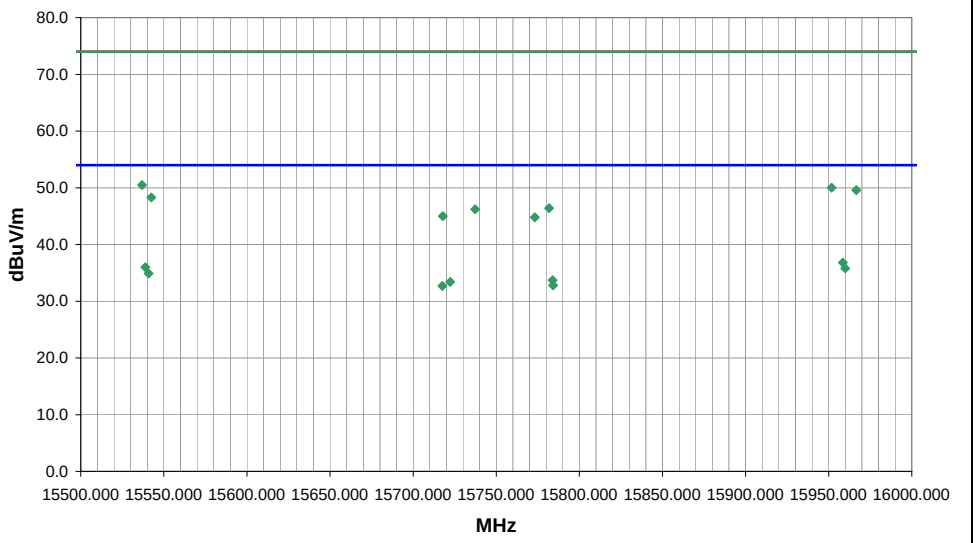
802.11(a), Chain A

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	4
Configuration #	1
Results	Pass

Signature Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
15958.530	30.7	6.1	265.0	1.0	3.0	0.0	V-Horn	AV	0.0	36.8	54.0	-17.2	Ch. 64, 6 Mbps, Tablet horizontal
15538.930	30.3	5.7	211.0	1.0	3.0	0.0	V-Horn	AV	0.0	36.0	54.0	-18.0	Ch. 36, 6 Mbps, Tablet horizontal
15960.000	29.8	6.0	61.0	1.0	3.0	0.0	H-Horn	AV	0.0	35.8	54.0	-18.2	Ch. 64, 6 Mbps, Tablet on end
15540.800	29.1	5.8	28.0	1.0	3.0	0.0	H-Horn	AV	0.0	34.9	54.0	-19.1	Ch. 36, 6 Mbps, Tablet on end
15783.870	27.8	5.9	264.0	1.0	3.0	0.0	V-Horn	AV	0.0	33.7	54.0	-20.3	Ch. 52, 6 Mbps, Tablet horizontal
15722.270	27.5	5.9	216.0	1.0	3.0	0.0	V-Horn	AV	0.0	33.4	54.0	-20.6	Ch. 48, 6 Mbps, Tablet horizontal
15784.130	26.9	5.9	38.0	1.0	3.0	0.0	H-Horn	AV	0.0	32.8	54.0	-21.2	Ch. 52, 6 Mbps, Tablet on end
15717.530	26.8	5.9	360.0	1.3	3.0	0.0	H-Horn	AV	0.0	32.7	54.0	-21.3	Ch. 48, 6 Mbps, Tablet on end
15536.870	44.8	5.7	211.0	1.0	3.0	0.0	V-Horn	PK	0.0	50.5	74.0	-23.5	Ch. 36, 6 Mbps, Tablet horizontal
15951.730	43.9	6.1	61.0	1.0	3.0	0.0	H-Horn	PK	0.0	50.0	74.0	-24.0	Ch. 64, 6 Mbps, Tablet on end
15966.600	43.5	6.1	265.0	1.0	3.0	0.0	V-Horn	PK	0.0	49.6	74.0	-24.4	Ch. 64, 6 Mbps, Tablet horizontal
15542.470	42.6	5.7	28.0	1.0	3.0	0.0	H-Horn	PK	0.0	48.3	74.0	-25.7	Ch. 36, 6 Mbps, Tablet on end
15781.730	40.5	5.9	264.0	1.0	3.0	0.0	V-Horn	PK	0.0	46.4	74.0	-27.6	Ch. 52, 6 Mbps, Tablet horizontal
15737.330	40.3	5.9	360.0	1.3	3.0	0.0	H-Horn	PK	0.0	46.2	74.0	-27.8	Ch. 48, 6 Mbps, Tablet on end
15717.870	39.1	5.9	216.0	1.0	3.0	0.0	V-Horn	PK	0.0	45.0	74.0	-29.0	Ch. 48, 6 Mbps, Tablet horizontal
15773.200	38.9	5.9	38.0	1.0	3.0	0.0	H-Horn	PK	0.0	44.8	74.0	-29.2	Ch. 52, 6 Mbps, Tablet on end

NORTHWEST EMC

Spurious Radiated Emissions - Restricted Bands

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/29/07
Customer:	Spectrum Technology, Inc.	Temperature:	20°
Attendees:	Rod Munro	Humidity:	24%
Project:	None	Barometric Pres.:	29.97
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.209:2006	ANSI C63.4:2003

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

COMMENTS

Tablet vertical

EUT OPERATING MODES

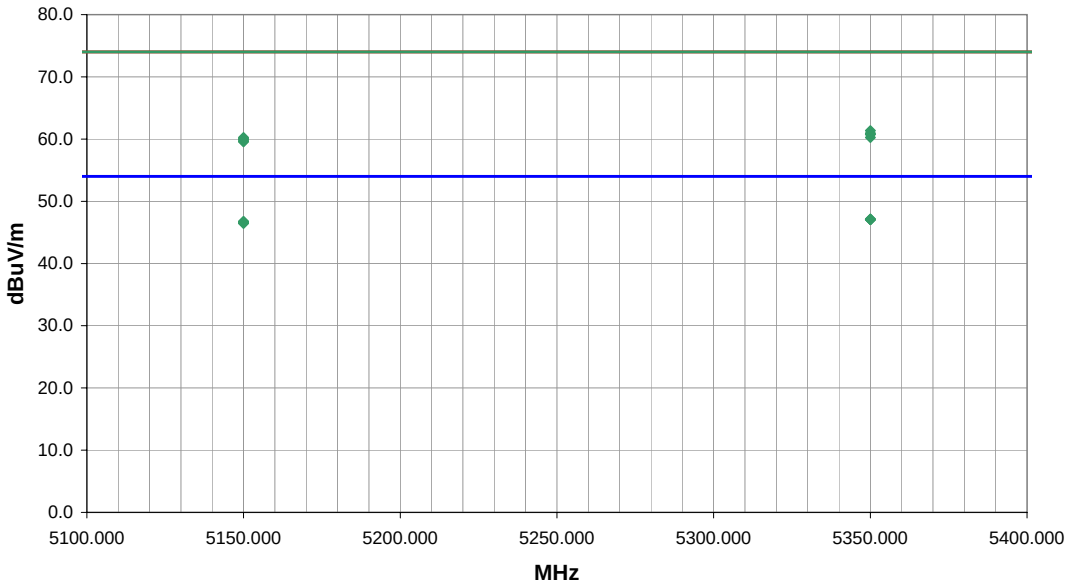
802.11(a), Chain A, see comments for channels

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	25
Configuration #	1
Results	Pass

Signature Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
5350.000	19.8	36.9	360.0	1.0	1.0	0.0	H-Horn	AV	-9.5	47.2	54.0	-6.8	Ch. 64, 54Mbps
5350.000	19.7	36.9	-1.0	1.0	1.0	0.0	V-Horn	AV	-9.5	47.1	54.0	-6.9	Ch. 64, 54Mbps
5350.000	19.7	36.9	273.0	1.0	1.0	0.0	H-Horn	AV	-9.5	47.1	54.0	-6.9	Ch. 64, 36Mbps
5350.000	19.7	36.9	185.0	1.0	1.0	0.0	V-Horn	AV	-9.5	47.1	54.0	-6.9	Ch. 64, 36Mbps
5350.000	19.7	36.9	360.0	1.0	1.0	0.0	V-Horn	AV	-9.5	47.1	54.0	-6.9	Ch. 64, 6Mbps
5150.000	20.0	36.3	360.0	1.0	1.0	0.0	V-Horn	AV	-9.5	46.8	54.0	-7.2	Ch. 36, 6Mbps
5150.000	20.0	36.3	63.0	1.0	1.0	0.0	H-Horn	AV	-9.5	46.8	54.0	-7.2	Ch. 36, 6Mbps
5150.000	19.9	36.3	22.0	1.0	1.0	0.0	H-Horn	AV	-9.5	46.7	54.0	-7.3	Ch. 36, 36Mbps
5150.000	19.8	36.3	147.0	1.0	1.0	0.0	V-Horn	AV	-9.5	46.6	54.0	-7.4	Ch. 36, 36Mbps
5150.000	19.7	36.3	360.0	1.0	1.0	0.0	V-Horn	AV	-9.5	46.5	54.0	-7.5	Ch. 36, 54Mbps
5150.000	19.7	36.3	166.0	1.0	1.0	0.0	H-Horn	AV	-9.5	46.5	54.0	-7.5	Ch. 36, 54Mbps
5350.000	34.0	36.9	273.0	1.0	1.0	0.0	H-Horn	PK	-9.5	61.4	74.0	-12.6	Ch. 64, 36Mbps
5350.000	33.6	36.9	-1.0	1.0	1.0	0.0	V-Horn	PK	-9.5	61.0	74.0	-13.0	Ch. 64, 54Mbps
5350.000	33.4	36.9	360.0	1.0	1.0	0.0	H-Horn	PK	-9.5	60.8	74.0	-13.2	Ch. 64, 54Mbps
5350.000	33.4	36.9	360.0	1.0	1.0	0.0	V-Horn	PK	-9.5	60.8	74.0	-13.2	Ch. 64, 6Mbps
5150.000	33.5	36.3	147.0	1.0	1.0	0.0	V-Horn	PK	-9.5	60.3	74.0	-13.7	Ch. 36, 36Mbps
5350.000	32.9	36.9	185.0	1.0	1.0	0.0	V-Horn	PK	-9.5	60.3	74.0	-13.7	Ch. 64, 36Mbps
5150.000	33.3	36.3	166.0	1.0	1.0	0.0	H-Horn	PK	-9.5	60.1	74.0	-13.9	Ch. 36, 54Mbps
5150.000	33.2	36.3	63.0	1.0	1.0	0.0	H-Horn	PK	-9.5	60.0	74.0	-14.0	Ch. 36, 6Mbps
5150.000	33.1	36.3	22.0	1.0	1.0	0.0	H-Horn	PK	-9.5	59.9	74.0	-14.1	Ch. 36, 36Mbps

NORTHWEST EMC

Spurious Radiated Emissions - Restricted Bands

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/28/07
Customer:	Spectrum Technology, Inc.	Temperature:	20°
Attendees:	Rod Munro	Humidity:	28%
Project:	None	Barometric Pres.:	30.42
Tested by:	Rod Peloquin	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.209:2006	ANSI C63.4:2003

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

COMMENTS

EUT OPERATING MODES

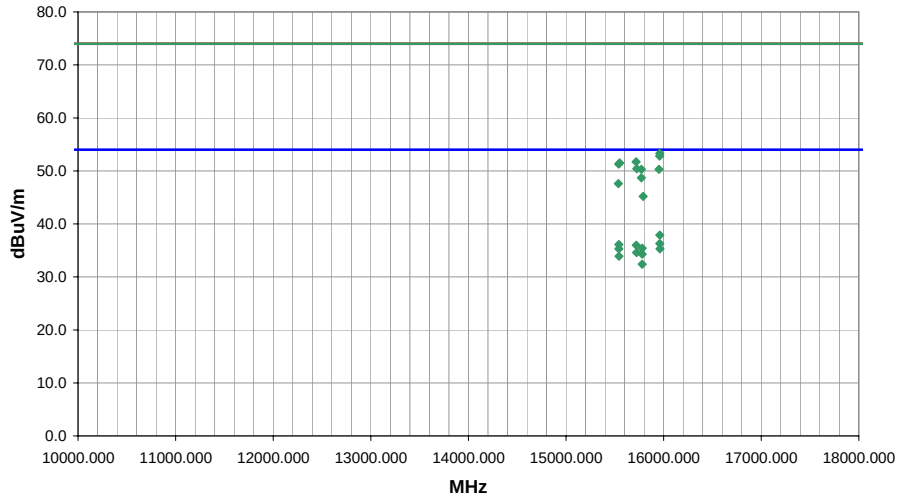
802.11(n), 20MHz, Chain A / HT0

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	18
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
15960.750	31.8	6.1	56.0	1.2	3.0	0.0	H-Horn	AV	0.0	37.9	54.0	-16.1	Channel 64, Chain A / HT0, Tablet on side
15961.080	30.2	6.1	355.0	1.2	3.0	0.0	V-Horn	AV	0.0	36.3	54.0	-17.7	Channel 64, Chain A / HT0, Tablet horizontal
15540.780	30.3	5.8	353.0	1.3	3.0	0.0	V-Horn	AV	0.0	36.1	54.0	-17.9	Channel 36, Chain A / HT0, Tablet horizontal
15720.120	30.1	5.9	62.0	1.0	3.0	0.0	H-Horn	AV	0.0	36.0	54.0	-18.0	Channel 48, Chain A / HT0, Tablet on side
15780.500	29.5	5.9	64.0	1.0	3.0	0.0	H-Horn	AV	0.0	35.4	54.0	-18.6	Channel 52, Chain A / HT0, Tablet on end
15540.330	29.6	5.7	65.0	1.0	3.0	0.0	H-Horn	AV	0.0	35.3	54.0	-18.7	Channel 36, Chain A / HT0, Tablet on side
15961.580	29.3	6.0	1.0	1.2	3.0	0.0	H-Horn	AV	0.0	35.3	54.0	-18.7	Channel 64, Chain A / HT0, Tablet on end
15722.210	28.7	5.9	346.0	1.4	3.0	0.0	V-Horn	AV	0.0	34.6	54.0	-19.4	Channel 48, Chain A / HT0, Tablet horizontal
15780.620	28.4	5.9	347.0	1.4	3.0	0.0	V-Horn	AV	0.0	34.3	54.0	-19.7	Channel 52, Chain A / HT0, Tablet horizontal
15542.880	28.2	5.7	9.0	1.0	3.0	0.0	H-Horn	AV	0.0	33.9	54.0	-20.1	Channel 36, Chain A / HT0, Tablet on end
15961.080	47.2	6.1	56.0	1.2	3.0	0.0	H-Horn	PK	0.0	53.3	74.0	-20.7	Channel 64, Chain A / HT0, Tablet on end
15959.500	46.7	6.1	355.0	1.2	3.0	0.0	V-Horn	PK	0.0	52.8	74.0	-21.2	Channel 64, Chain A / HT0, Tablet horizontal
15780.880	26.5	5.9	44.0	1.0	3.0	0.0	H-Horn	AV	0.0	32.4	54.0	-21.6	Channel 52, Chain A / HT0, Tablet on side
15717.670	45.8	5.9	62.0	1.0	3.0	0.0	H-Horn	PK	0.0	51.7	74.0	-22.3	Channel 48, Chain A / HT0, Tablet on side
15549.520	45.8	5.7	347.0	1.3	3.0	0.0	V-Horn	PK	0.0	51.5	74.0	-22.5	Channel 36, Chain A / HT0, Tablet horizontal
15538.880	45.6	5.7	65.0	1.0	3.0	0.0	H-Horn	PK	0.0	51.3	74.0	-22.7	Channel 36, Chain A / HT0, Tablet on side
15723.960	44.5	5.9	346.0	1.4	3.0	0.0	V-Horn	PK	0.0	50.4	74.0	-23.6	Channel 48, Chain A / HT0, Tablet horizontal
15772.670	44.4	5.9	64.0	1.0	3.0	0.0	H-Horn	PK	0.0	50.3	74.0	-23.7	Channel 52, Chain A / HT0, Tablet on end
15953.080	44.2	6.1	1.0	1.2	3.0	0.0	H-Horn	PK	0.0	50.3	74.0	-23.7	Channel 64, Chain A / HT0, Tablet on side
15772.080	42.8	5.9	347.0	1.4	3.0	0.0	V-Horn	PK	0.0	48.7	74.0	-25.3	Channel 52, Chain A / HT0, Tablet horizontal

NORTHWEST EMC

Spurious Radiated Emissions - Restricted Bands

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/28/07
Customer:	Spectrum Technology, Inc.	Temperature:	20°
Attendees:	Rod Munro	Humidity:	28%
Project:	None	Barometric Pres.:	30.42
Tested by:	Rod Peloquin	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.209:2006	ANSI C63.4:2003

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

COMMENTS

EUT OPERATING MODES

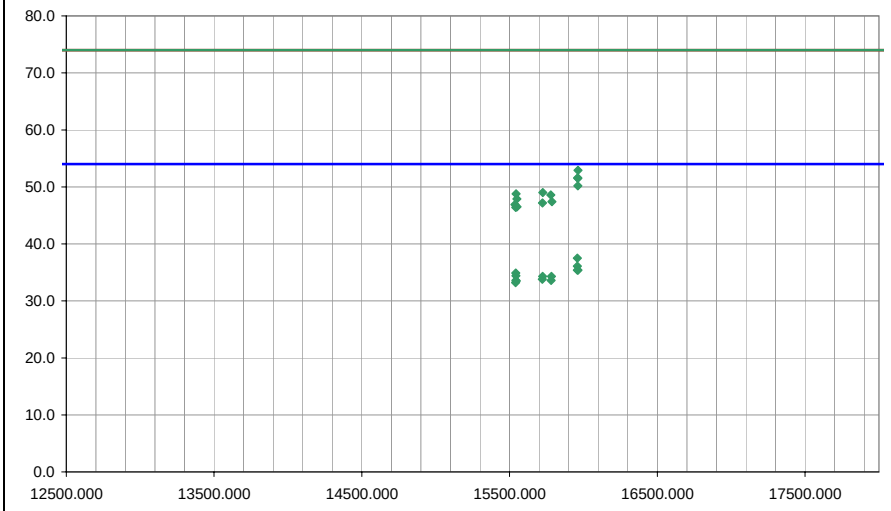
802.11(n), 20MHz, Chain AB / HT8

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	19
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
15959.210	31.4	6.1	178.0	1.3	3.0	0.0	V-Horn	AV	0.0	37.5	54.0	-16.5	Channel 64, Chain AB / HT8, Tablet horizontal
15959.250	30.0	6.1	62.0	1.4	3.0	0.0	H-Horn	AV	0.0	36.1	54.0	-17.9	Channel 64, Chain AB / HT8, Tablet on side
15959.000	29.3	6.1	239.0	1.2	3.0	0.0	H-Horn	AV	0.0	35.4	54.0	-18.6	Channel 64, Chain AB / HT8, Tablet horizontal
15963.000	29.3	6.1	2.0	1.1	3.0	0.0	V-Horn	AV	0.0	35.4	54.0	-18.6	Channel 64, Chain AB / HT8, Tablet on side
15542.290	29.1	5.8	242.0	1.3	3.0	0.0	H-Horn	AV	0.0	34.9	54.0	-19.1	Channel 36, Chain AB / HT8, Tablet horizontal
15542.790	28.6	5.8	65.0	1.2	3.0	0.0	H-Horn	AV	0.0	34.4	54.0	-19.6	Channel 36, Chain AB / HT8, Tablet on side
15724.120	28.4	5.9	61.0	1.2	3.0	0.0	H-Horn	AV	0.0	34.3	54.0	-19.7	Channel 48, Chain AB / HT8, Tablet on side
15782.870	28.4	5.9	183.0	1.4	3.0	0.0	V-Horn	AV	0.0	34.3	54.0	-19.7	Channel 52, Chain AB / HT8, Tablet horizontal
15721.380	27.9	5.9	172.0	1.1	3.0	0.0	V-Horn	AV	0.0	33.8	54.0	-20.2	Channel 48, Chain AB / HT8, Tablet horizontal
15543.000	27.8	5.8	320.0	1.2	3.0	0.0	V-Horn	AV	0.0	33.6	54.0	-20.4	Channel 36, Chain AB / HT8, Tablet on end
15780.710	27.7	5.9	249.0	1.3	3.0	0.0	H-Horn	AV	0.0	33.6	54.0	-20.4	Channel 52, Chain AB / HT8, Tablet horizontal
15544.580	27.7	5.8	6.0	1.1	3.0	0.0	V-Horn	AV	0.0	33.5	54.0	-20.5	Channel 36, Chain AB / HT8, Tablet on side
15540.580	27.5	5.7	5.0	1.3	3.0	0.0	H-Horn	AV	0.0	33.2	54.0	-20.8	Channel 36, Chain AB / HT8, Tablet on end
15962.960	46.8	6.1	178.0	1.3	3.0	0.0	V-Horn	PK	0.0	52.9	74.0	-21.1	Channel 64, Chain AB / HT8, Tablet horizontal
15960.420	45.5	6.1	62.0	1.4	3.0	0.0	H-Horn	PK	0.0	51.6	74.0	-22.4	Channel 64, Chain AB / HT8, Tablet on side
15962.290	45.4	6.1	239.0	1.2	3.0	0.0	H-Horn	PK	0.0	51.5	74.0	-22.5	Channel 64, Chain AB / HT8, Tablet horizontal
15961.540	44.1	6.1	2.0	1.1	3.0	0.0	V-Horn	PK	0.0	50.2	74.0	-23.8	Channel 64, Chain AB / HT8, Tablet on side
15724.620	43.1	5.9	61.0	1.2	3.0	0.0	H-Horn	PK	0.0	49.0	74.0	-25.0	Channel 48, Chain AB / HT8, Tablet on side
15544.170	43.1	5.7	242.0	1.3	3.0	0.0	H-Horn	PK	0.0	48.8	74.0	-25.2	Channel 36, Chain AB / HT8, Tablet horizontal
15778.920	42.7	5.9	183.0	1.4	3.0	0.0	V-Horn	PK	0.0	48.6	74.0	-25.4	Channel 52, Chain AB / HT8, Tablet horizontal

NORTHWEST EMC

Spurious Radiated Emissions - Restricted Bands

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/30/07
Customer:	Spectrum Technology, Inc.	Temperature:	20°
Attendees:	Rod Munro	Humidity:	24%
Project:	None	Barometric Pres.:	29.97
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.209:2006	ANSI C63.4:2003

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

COMMENTS

Tablet vertical

EUT OPERATING MODES

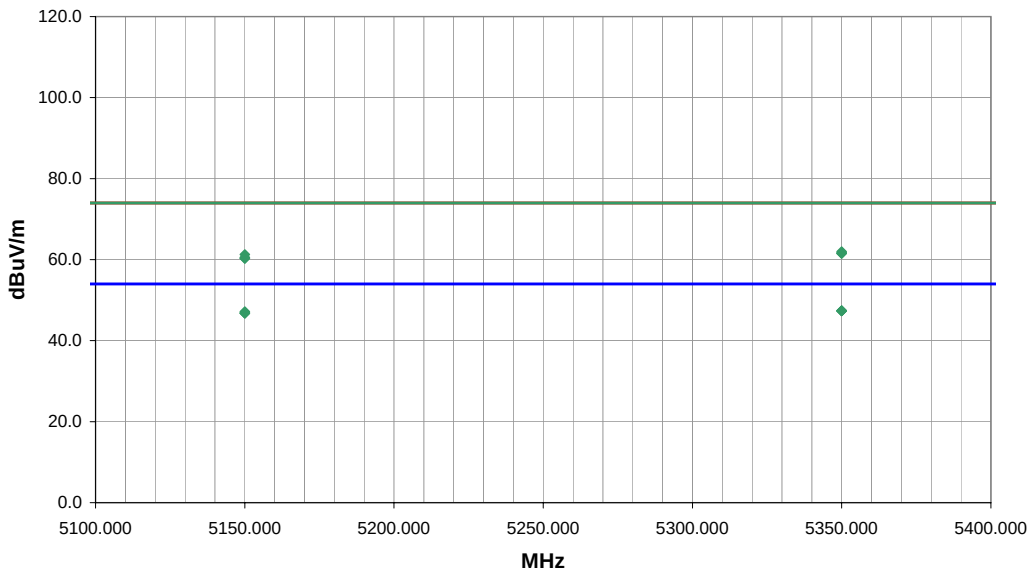
802.11(n), 20 MHz wide

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	29
Configuration #	1
Results	Pass

Signature Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
5350.000	20.0	36.9	308.0	1.0	1.0	0.0	H-Horn	AV	-9.5	47.4	54.0	-6.6	Ch. 64, Chain AB, HT8
5350.000	20.0	36.9	-1.0	1.0	1.0	0.0	H-Horn	AV	-9.5	47.4	54.0	-6.6	Ch. 64, Chain AB, HT8
5350.000	20.0	36.9	298.0	1.0	1.0	0.0	H-Horn	AV	-9.5	47.4	54.0	-6.6	Ch. 64, Chain A, HT0
5350.000	20.0	36.9	171.0	1.0	1.0	0.0	V-Horn	AV	-9.5	47.4	54.0	-6.6	Ch. 64, Chain A, HT0
5150.000	20.4	36.3	360.0	1.0	1.0	0.0	H-Horn	AV	-9.5	47.2	54.0	-6.8	Ch. 36, Chain A, HTO
5150.000	20.1	36.3	-1.0	1.0	1.0	0.0	H-Horn	AV	-9.5	46.9	54.0	-7.1	Ch. 36, Chain AB, HT8
5150.000	20.0	36.3	37.0	1.0	1.0	0.0	V-Horn	AV	-9.5	46.8	54.0	-7.2	Ch. 36, Chain A, HTO
5150.000	20.0	36.3	255.0	1.1	1.0	0.0	V-Horn	AV	-9.5	46.8	54.0	-7.2	Ch. 36, Chain AB, HT8
5350.000	34.6	36.9	298.0	1.0	1.0	0.0	H-Horn	PK	-9.5	62.0	74.0	-12.0	Ch. 64, Chain A, HT0
5350.000	34.3	36.9	-1.0	1.0	1.0	0.0	H-Horn	PK	-9.5	61.7	74.0	-12.3	Ch. 64, Chain AB, HT8
5350.000	34.2	36.9	308.0	1.0	1.0	0.0	H-Horn	PK	-9.5	61.6	74.0	-12.4	Ch. 64, Chain AB, HT8
5350.000	34.2	36.9	171.0	1.0	1.0	0.0	V-Horn	PK	-9.5	61.6	74.0	-12.4	Ch. 64, Chain A, HT0
5150.000	34.5	36.3	255.0	1.1	1.0	0.0	V-Horn	PK	-9.5	61.3	74.0	-12.7	Ch. 36, Chain AB, HT8
5150.000	33.8	36.3	37.0	1.0	1.0	0.0	V-Horn	PK	-9.5	60.6	74.0	-13.4	Ch. 36, Chain A, HTO
5150.000	33.6	36.3	-1.0	1.0	1.0	0.0	H-Horn	PK	-9.5	60.4	74.0	-13.6	Ch. 36, Chain AB, HT8
5150.000	33.5	36.3	360.0	1.0	1.0	0.0	H-Horn	PK	-9.5	60.3	74.0	-13.7	Ch. 36, Chain A, HTO

NORTHWEST EMC

Spurious Radiated Emissions - Restricted Bands

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	12/03/07
Customer:	Spectrum Technology, Inc.	Temperature:	22
Attendees:	Rod Munro	Humidity:	39%
Project:	None	Barometric Pres.:	1005.2
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.209:2006	ANSI C63.4:2003

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

COMMENTS

EUT OPERATING MODES

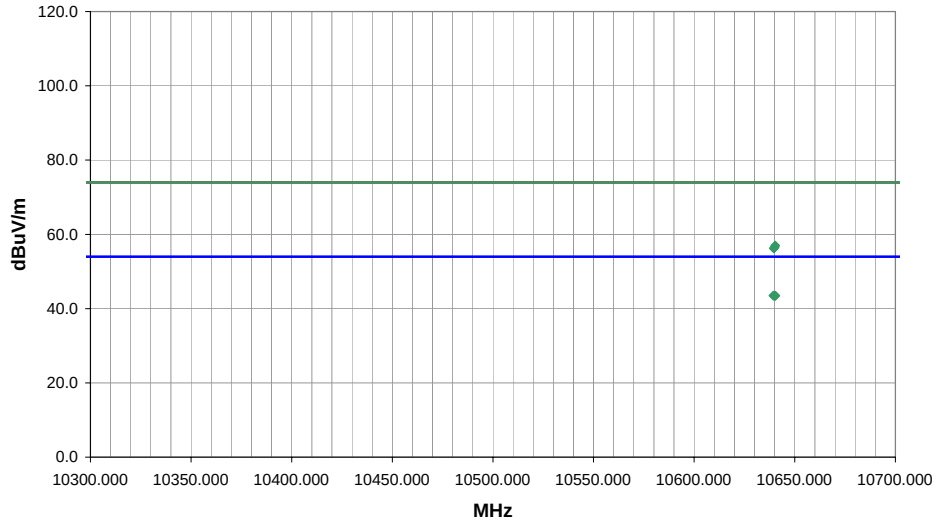
Transmitting 802.11(n), 20 MHz wide. See comments for channel and data rate.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	31
Configuration #	1
Results	Pass

Signature Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments

NORTHWEST EMC

Spurious Radiated Emissions - Restricted Bands

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/28/07
Customer:	Spectrum Technology, Inc.	Temperature:	21
Attendees:	Rod Munro	Humidity:	27%
Project:	None	Barometric Pres.:	30.42
Tested by:	Rod Peloquin	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.209:2006	ANSI C63.4:2003

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

COMMENTS

EUT OPERATING MODES

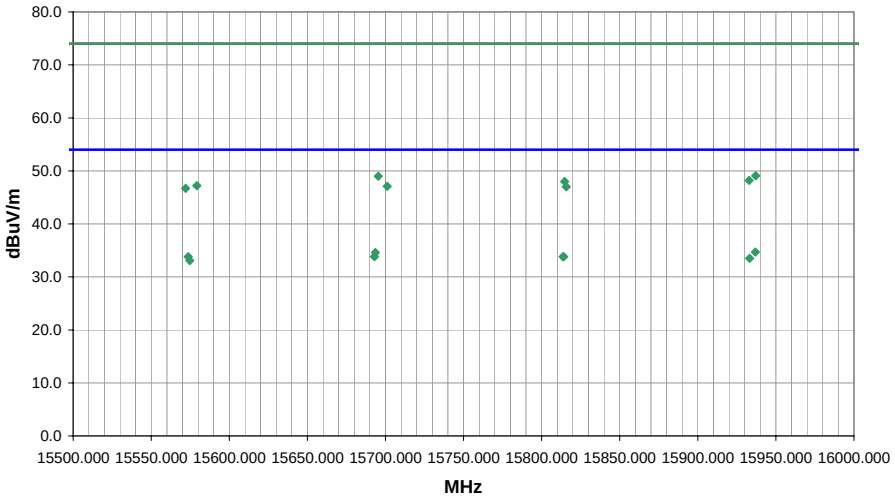
802.11(n), 40MHz, Chain AB / HT8

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	20
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
15936.880	28.7	6.0	55.0	1.0	3.0	0.0	H-Horn	AV	0.0	34.7	54.0	-19.3	Channel 62, Chain AB / HT8, Tablet on side
15693.510	28.7	5.9	60.0	1.2	3.0	0.0	H-Horn	AV	0.0	34.6	54.0	-19.4	Channel 46, Chain AB / HT8, Tablet on side
15573.650	28.0	5.8	167.0	1.2	3.0	0.0	V-Horn	AV	0.0	33.8	54.0	-20.2	Channel 38, Chain AB / HT8, Tablet horizontal
15692.900	28.0	5.8	165.0	1.2	3.0	0.0	V-Horn	AV	0.0	33.8	54.0	-20.2	Channel 46, Chain AB / HT8, Tablet horizontal
15813.730	27.8	6.0	57.0	1.0	3.0	0.0	H-Horn	AV	0.0	33.8	54.0	-20.2	Channel 54, Chain AB / HT8, Tablet on side
15814.090	27.8	6.0	166.0	1.2	3.0	0.0	V-Horn	AV	0.0	33.8	54.0	-20.2	Channel 54, Chain AB / HT8, Tablet horizontal
15933.190	27.5	6.0	176.0	1.0	3.0	0.0	V-Horn	AV	0.0	33.5	54.0	-20.5	Channel 62, Chain AB / HT8, Tablet horizontal
15574.740	27.3	5.8	50.0	1.0	3.0	0.0	H-Horn	AV	0.0	33.1	54.0	-20.9	Channel 38, Chain AB / HT8, Tablet on side
15937.140	43.1	6.0	55.0	1.0	3.0	0.0	H-Horn	PK	0.0	49.1	74.0	-24.9	Channel 62, Chain AB / HT8, Tablet on side
15695.400	43.1	5.9	60.0	1.2	3.0	0.0	H-Horn	PK	0.0	49.0	74.0	-25.0	Channel 46, Chain AB / HT8, Tablet on side
15932.930	42.2	6.0	176.0	1.0	3.0	0.0	V-Horn	PK	0.0	48.2	74.0	-25.8	Channel 62, Chain AB / HT8, Tablet horizontal
15814.750	42.0	6.0	166.0	1.2	3.0	0.0	V-Horn	PK	0.0	48.0	74.0	-26.0	Channel 54, Chain AB / HT8, Tablet horizontal
15579.160	41.4	5.8	167.0	1.2	3.0	0.0	V-Horn	PK	0.0	47.2	74.0	-26.8	Channel 38, Chain AB / HT8, Tablet horizontal
15701.120	41.2	5.9	165.0	1.2	3.0	0.0	V-Horn	PK	0.0	47.1	74.0	-26.9	Channel 46, Chain AB / HT8, Tablet horizontal
15815.800	41.0	6.0	57.0	1.0	3.0	0.0	H-Horn	PK	0.0	47.0	74.0	-27.0	Channel 54, Chain AB / HT8, Tablet on side
15572.060	40.9	5.8	50.0	1.0	3.0	0.0	H-Horn	PK	0.0	46.7	74.0	-27.3	Channel 38, Chain A / HT0, Tablet on side

NORTHWEST EMC

Spurious Radiated Emissions - Restricted Bands

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio			Work Order:	SPTE0070
Serial Number:	SY720000658			Date:	12/03/07
Customer:	Spectrum Technology, Inc.			Temperature:	22
Attendees:	Rod Munro			Humidity:	39%
Project:	None			Barometric Pres.:	1005.2
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS	Test Method
FCC 15.209:2006	ANSI C63.4:2003

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

COMMENTS

EUT OPERATING MODES

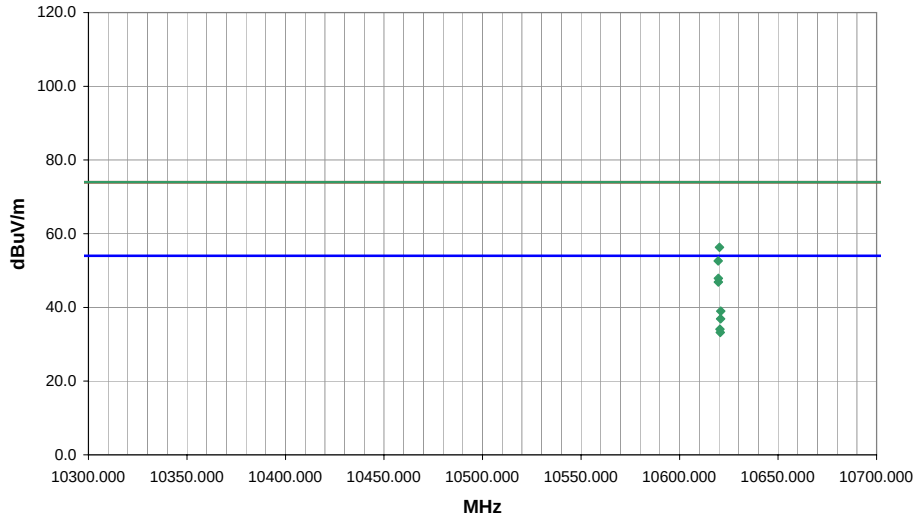
Transmitting 802.11(n), 40 MHz wide. See comments for channel and data rate.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	33
Configuration #	1
Results	Pass

Signature Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments

NORTHWEST EMC

Spurious Radiated Emissions - Restricted Bands

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio			Work Order:	SPTE0070
Serial Number:	SY720000658			Date:	12/04/07
Customer:	Spectrum Technology, Inc.			Temperature:	22
Attendees:	Rod Munro			Humidity:	42%
Project:	None			Barometric Pres.:	30.22
Tested by:	Rod Peloquin	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS	Test Method
FCC 15.209:2006	ANSI C63.4:2003

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

COMMENTS

EUT OPERATING MODES

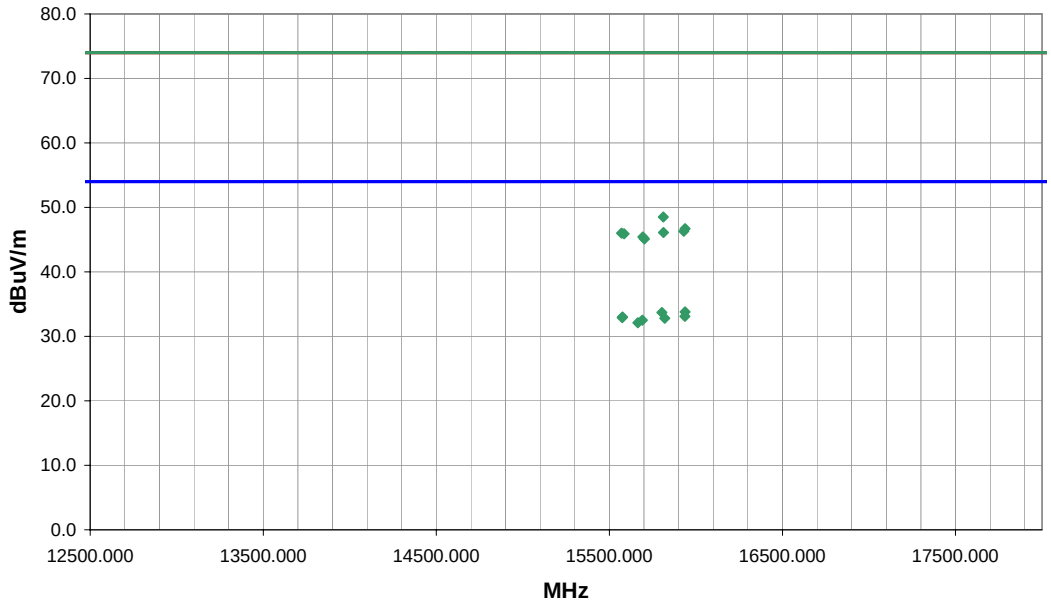
802.11(n), 40MHz, Chain AB / HT8

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	35
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
15937.000	27.8	6.0	60.0	1.0	3.0	0.0	H-Horn	AV	0.0	33.8	54.0	-20.2	Channel 62
15803.450	27.7	6.0	62.0	1.2	3.0	0.0	H-Horn	AV	0.0	33.7	54.0	-20.3	Channel 54
15936.300	27.1	6.0	46.0	1.0	3.0	0.0	V-Horn	AV	0.0	33.1	54.0	-20.9	Channel 62
15576.300	27.2	5.8	172.0	1.0	3.0	0.0	V-Horn	AV	0.0	33.0	54.0	-21.0	Channel 38
15574.050	27.1	5.8	232.0	1.0	3.0	0.0	H-Horn	AV	0.0	32.9	54.0	-21.1	Channel 38
15820.100	26.8	6.0	39.0	1.0	3.0	0.0	V-Horn	AV	0.0	32.8	54.0	-21.2	Channel 54
15690.900	26.7	5.8	63.0	1.0	3.0	0.0	H-Horn	AV	0.0	32.5	54.0	-21.5	Channel 46
15665.050	26.2	5.9	16.0	1.0	3.0	0.0	V-Horn	AV	0.0	32.1	54.0	-21.9	Channel 46
15811.400	42.5	6.0	62.0	1.2	3.0	0.0	H-Horn	PK	0.0	48.5	74.0	-25.5	Channel 54
15937.350	40.7	6.0	60.0	1.0	3.0	0.0	H-Horn	PK	0.0	46.7	74.0	-27.3	Channel 62
15929.650	40.3	6.0	46.0	1.0	3.0	0.0	V-Horn	PK	0.0	46.3	74.0	-27.7	Channel 62
15812.150	40.1	6.0	39.0	1.0	3.0	0.0	V-Horn	PK	0.0	46.1	74.0	-27.9	Channel 54
15570.250	40.2	5.8	172.0	1.0	3.0	0.0	V-Horn	PK	0.0	46.0	74.0	-28.0	Channel 38
15584.900	40.1	5.8	232.0	1.0	3.0	0.0	H-Horn	PK	0.0	45.9	74.0	-28.1	Channel 38
15692.950	39.5	5.9	16.0	1.0	3.0	0.0	V-Horn	PK	0.0	45.4	74.0	-28.6	Channel 46
15702.550	39.2	5.9	63.0	1.0	3.0	0.0	H-Horn	PK	0.0	45.1	74.0	-28.9	Channel 46

NORTHWEST EMC

Spurious Radiated Emissions - Restricted Bands

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/30/07
Customer:	Spectrum Technology, Inc.	Temperature:	20°
Attendees:	Rod Munro	Humidity:	24%
Project:	None	Barometric Pres.:	29.97
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.209:2006	ANSI C63.4:2003

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

COMMENTS

Tablet vertical

EUT OPERATING MODES

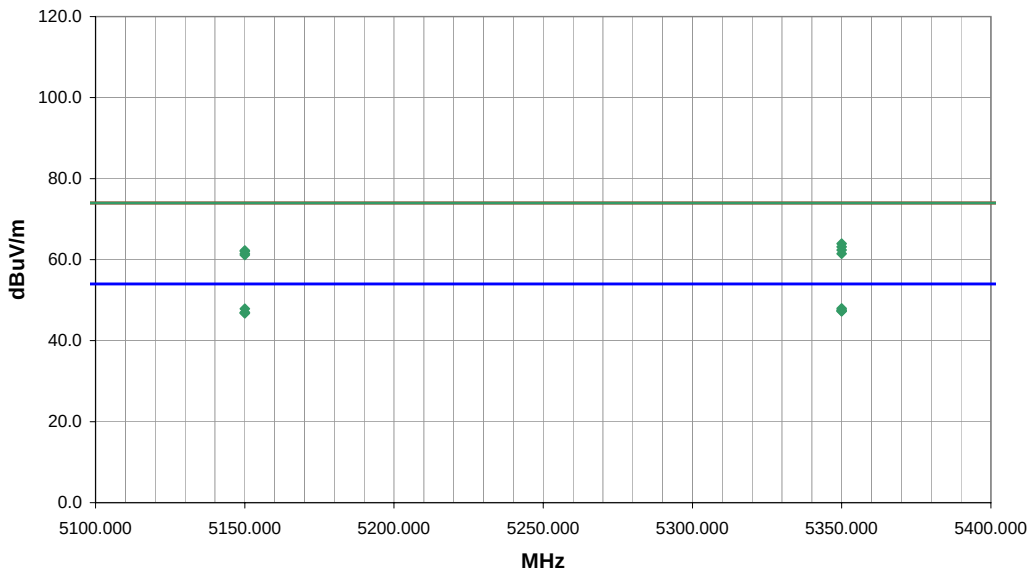
802.11(n), 40 MHz wide

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	30
Configuration #	1
Results	Pass

Signature Holly Ashkannejhad



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
5350.000	20.6	36.9	360.0	1.0	1.0	0.0	V-Horn	AV	-9.5	48.0	54.0	-6.0	Ch. 62, Chain A, HT0
5150.000	21.1	36.3	360.0	1.0	1.0	0.0	H-Horn	AV	-9.5	47.9	54.0	-6.1	Ch. 38, Chain A, HTO
5350.000	20.2	36.9	39.0	1.0	1.0	0.0	H-Horn	AV	-9.5	47.6	54.0	-6.4	Ch. 62, Chain A, HT0
5350.000	20.0	36.9	218.0	1.0	1.0	0.0	H-Horn	AV	-9.5	47.4	54.0	-6.6	Ch. 62, Chain AB, HT8
5350.000	19.9	36.9	269.0	1.0	1.0	0.0	V-Horn	AV	-9.5	47.3	54.0	-6.7	Ch. 62, Chain AB, HT8
5150.000	20.2	36.3	-1.0	1.0	1.0	0.0	V-Horn	AV	-9.5	47.0	54.0	-7.0	Ch. 38, Chain AB, HT8
5150.000	20.1	36.3	284.0	1.0	1.0	0.0	V-Horn	AV	-9.5	46.9	54.0	-7.1	Ch. 38, Chain A, HTO
5150.000	20.0	36.3	360.0	1.0	1.0	0.0	H-Horn	AV	-9.5	46.8	54.0	-7.2	Ch. 38, Chain AB, HT8
5350.000	36.6	36.9	39.0	1.0	1.0	0.0	H-Horn	PK	-9.5	64.0	74.0	-10.0	Ch. 62, Chain A, HT0
5350.000	35.8	36.9	360.0	1.0	1.0	0.0	V-Horn	PK	-9.5	63.2	74.0	-10.8	Ch. 62, Chain A, HT0
5350.000	35.0	36.9	218.0	1.0	1.0	0.0	H-Horn	PK	-9.5	62.4	74.0	-11.6	Ch. 62, Chain AB, HT8
5150.000	35.5	36.3	284.0	1.0	1.0	0.0	V-Horn	PK	-9.5	62.3	74.0	-11.7	Ch. 38, Chain A, HTO
5150.000	35.3	36.3	360.0	1.0	1.0	0.0	H-Horn	PK	-9.5	62.1	74.0	-11.9	Ch. 38, Chain A, HTO
5150.000	34.7	36.3	-1.0	1.0	1.0	0.0	V-Horn	PK	-9.5	61.5	74.0	-12.5	Ch. 38, Chain AB, HT8
5350.000	34.1	36.9	269.0	1.0	1.0	0.0	V-Horn	PK	-9.5	61.5	74.0	-12.5	Ch. 62, Chain AB, HT8
5150.000	34.4	36.3	360.0	1.0	1.0	0.0	H-Horn	PK	-9.5	61.2	74.0	-12.8	Ch. 38, Chain AB, HT8

NORTHWEST EMC

Spurious Radiated Emissions - EIRP

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/20/07
Customer:	Spectrum Technology, Inc.	Temperature:	21
Attendees:	Rod Munro	Humidity:	36%
Project:	None	Barometric Pres.:	30.15
Tested by:	Rod Peloquin	Power: 120VAC/60Hz	Job Site: EV11

TEST SPECIFICATIONS	Test Method
FCC 15.407:2006	ANSI C63.4:2003 DA 02-2138:2002

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

COMMENTS

EUT OPERATING MODES

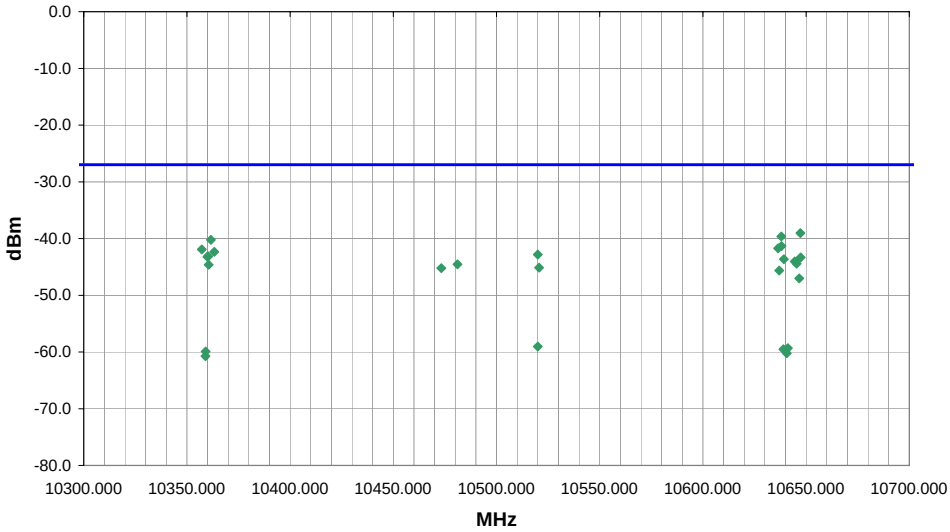
Transmitting 802.11(a), Chain A

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	1
Configuration #	1
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
10647.200			190.0	1.0			V-Horn	PK		-39.0	-27.0	-12.0	Ch. 64, 6 Mbps, Tablet horizontal
10637.980			294.0	1.0			H-Horn	PK		-39.6	-27.0	-12.6	Ch. 64, 6 Mbps, Tablet on end
10361.600			311.0	1.0			H-Horn	PK		-40.2	-27.0	-13.2	Ch. 36, 6 Mbps, Tablet on end
10638.100			197.0	1.2			V-Horn	PK		-41.3	-27.0	-14.3	Ch. 64, 36 Mbps, Tablet horizontal
10636.430			313.0	1.0			H-Horn	PK		-41.7	-27.0	-14.7	Ch. 64, 36 Mbps, Tablet on end
10357.230			314.0	1.0			H-Horn	PK		-41.9	-27.0	-14.9	Ch. 36, 36 Mbps, Tablet on end

NORTHWEST EMC

Spurious Radiated Emissions - EIRP

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/20/07
Customer:	Spectrum Technology, Inc.	Temperature:	21
Attendees:	Rod Munro	Humidity:	36%
Project:	None	Barometric Pres.:	30.15
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV11

TEST SPECIFICATIONS	Test Method
FCC 15.407:2006	ANSI C63.4:2003 DA 02-2138:2002

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

COMMENTS

EUT OPERATING MODES

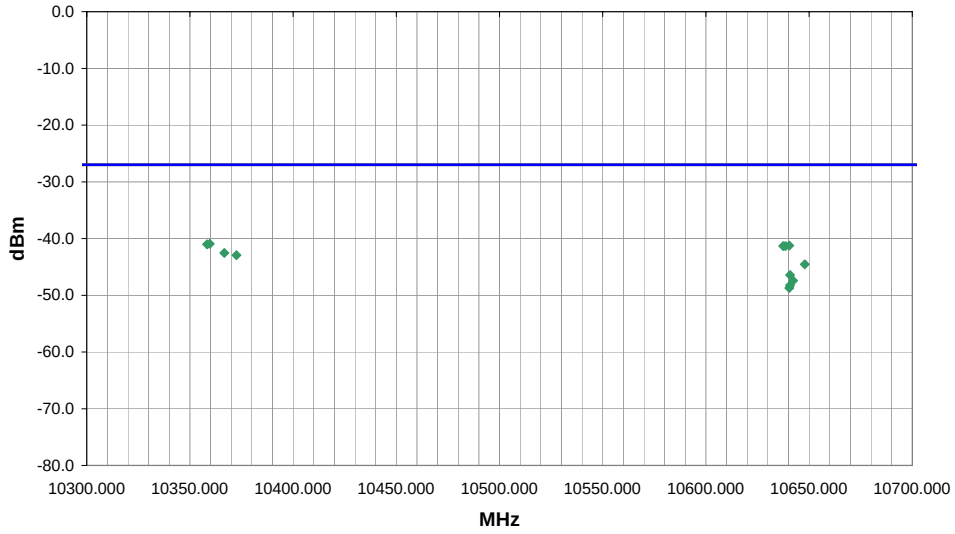
802.11(a), Chain B

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	2
Configuration #	1
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
10359.600			272.0	1.0			V-Horn	PK		-40.9	-27.0	-13.9	Ch. 36, 36 Mbps, Tablet horizontal
10358.270			202.0	1.0			V-Horn	PK		-41.0	-27.0	-14.0	Ch. 36, 6 Mbps, Tablet horizontal
10640.400			317.0	1.0			H-Horn	PK		-41.2	-27.0	-14.2	Ch. 64, 6 Mbps, Tablet on end
10637.470			205.0	1.0			V-Horn	PK		-41.3	-27.0	-14.3	Ch. 64, 36 Mbps, Tablet horizontal
10638.530			203.0	1.0			V-Horn	PK		-41.3	-27.0	-14.3	Ch. 64, 6 Mbps, Tablet horizontal
10366.670			291.0	1.0			H-Horn	PK		-42.5	-27.0	-15.5	Ch. 36, 6 Mbps, Tablet on end
10372.530			334.0	1.0			H-Horn	PK		-42.9	-27.0	-15.9	Ch. 36, 36 Mbps, Tablet on end
10647.870			330.0	1.0			H-Horn	PK		-44.5	-27.0	-17.5	Ch. 64, 36 Mbps, Tablet on end

NORTHWEST EMC

Spurious Radiated Emissions - EIRP

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio			Work Order:	SPTE0070
Serial Number:	SY720000658			Date:	11/20/07
Customer:	Spectrum Technology, Inc.			Temperature:	21
Attendees:	Rod Munro			Humidity:	36%
Project:	None			Barometric Pres.:	30.15
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV11

TEST SPECIFICATIONS	Test Method
FCC 15.407:2006	ANSI C63.4:2003 DA 02-2138:2002

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

COMMENTS

EUT OPERATING MODES

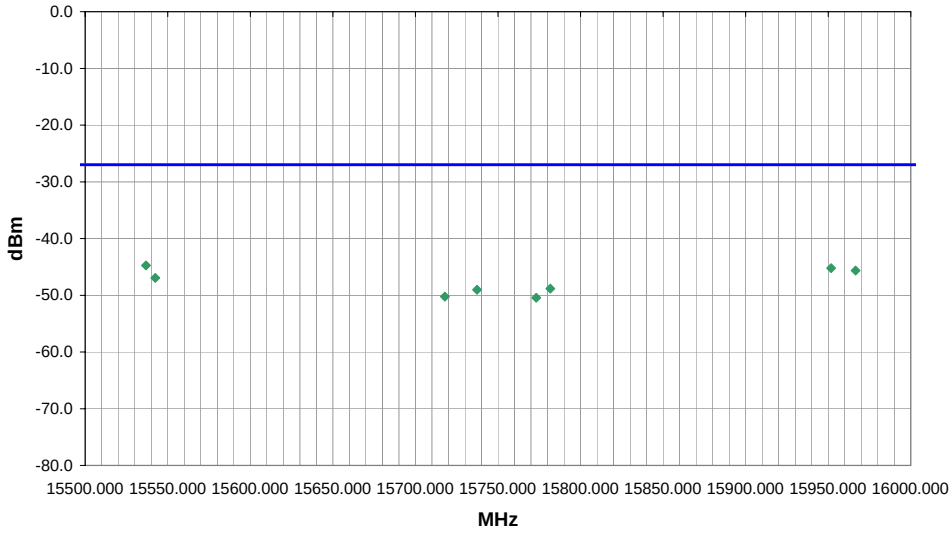
802.11(a), Chain A

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	4
Configuration #	1
Results	Pass

Signature Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
15536.870			211.0	1.0			V-Horn	PK		-44.7	-27.0	-17.7	Ch. 36, 6 Mbps, Tablet horizontal
15951.730			61.0	1.0			H-Horn	PK		-45.2	-27.0	-18.2	Ch. 64, 6 Mbps, Tablet on end
15966.600			265.0	1.0			V-Horn	PK		-45.6	-27.0	-18.6	Ch. 64, 6 Mbps, Tablet horizontal
15542.470			28.0	1.0			H-Horn	PK		-46.9	-27.0	-19.9	Ch. 36, 6 Mbps, Tablet on end
15781.730			264.0	1.0			V-Horn	PK		-48.8	-27.0	-21.8	Ch. 52, 6 Mbps, Tablet horizontal
15737.330			360.0	1.3			H-Horn	PK		-49.0	-27.0	-22.0	Ch. 48, 6 Mbps, Tablet on end
15717.870			216.0	1.0			V-Horn	PK		-50.2	-27.0	-23.2	Ch. 48, 6 Mbps, Tablet horizontal
15773.200			38.0	1.0			H-Horn	PK		-50.4	-27.0	-23.4	Ch. 52, 6 Mbps, Tablet on end

NORTHWEST EMC

Spurious Radiated Emissions - EIRP

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/29/07
Customer:	Spectrum Technology, Inc.	Temperature:	20°
Attendees:	Rod Munro	Humidity:	24%
Project:	None	Barometric Pres.:	29.97
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.407:2006	ANSI C63.4:2003 DA 02-2138:2002

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

COMMENTS

Tablet vertical

EUT OPERATING MODES

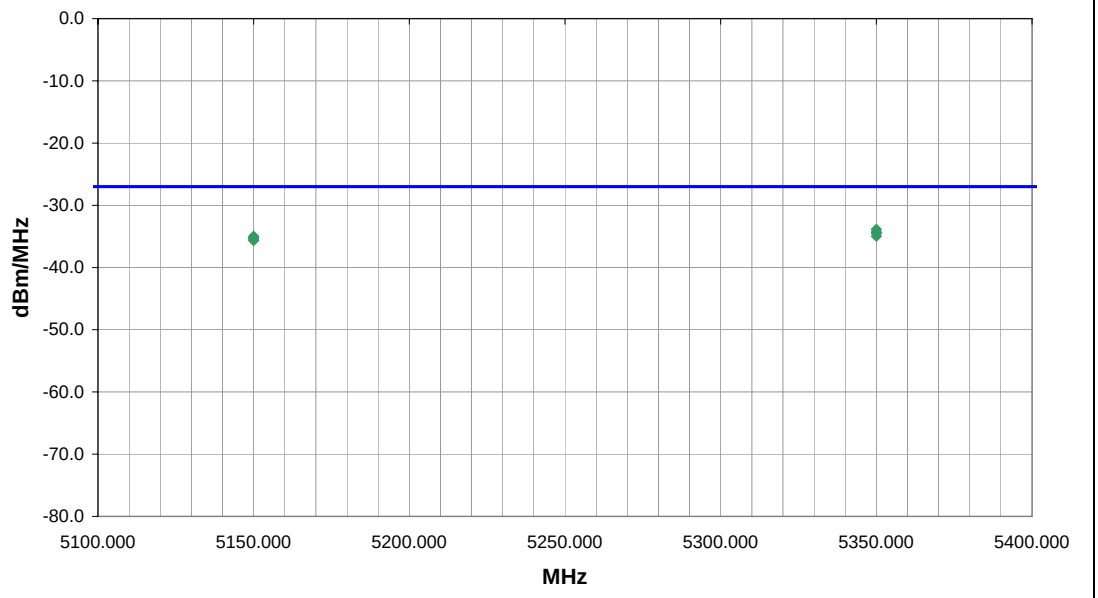
802.11(a), Chain A, see comments for channels

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	25
Configuration #	1
Results	Pass

Signature Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts/MHz)	EIRP (dBm/MHz)	Spec. Limit (dBm/MHz)	Compared to Spec. (dB)	Comments
5350.000			273.0	1.0			H-Horn	PK	4.10E-07	-33.9	-27.0	-6.9	Ch. 64, 36Mbps
5350.000			-1.0	1.0			V-Horn	PK	3.74E-07	-34.3	-27.0	-7.3	Ch. 64, 54Mbps
5350.000			360.0	1.0			H-Horn	PK	3.57E-07	-34.5	-27.0	-7.5	Ch. 64, 54Mbps
5350.000			360.0	1.0			V-Horn	PK	3.57E-07	-34.5	-27.0	-7.5	Ch. 64, 6Mbps
5150.000			147.0	1.0			V-Horn	PK	3.18E-07	-35.0	-27.0	-8.0	Ch. 36, 36Mbps
5350.000			185.0	1.0			V-Horn	PK	3.18E-07	-35.0	-27.0	-8.0	Ch. 64, 36Mbps
5150.000			166.0	1.0			H-Horn	PK	3.04E-07	-35.2	-27.0	-8.2	Ch. 36, 54Mbps
5150.000			63.0	1.0			H-Horn	PK	2.97E-07	-35.3	-27.0	-8.3	Ch. 36, 6Mbps
5150.000			22.0	1.0			H-Horn	PK	2.90E-07	-35.4	-27.0	-8.4	Ch. 36, 36Mbps

NORTHWEST EMC

Spurious Radiated Emissions - EIRP

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio			Work Order:	SPTE0070
Serial Number:	SY720000658			Date:	12/03/07
Customer:	Spectrum Technology, Inc.			Temperature:	22
Attendees:	Rod Munro			Humidity:	39%
Project:	None			Barometric Pres.:	1005.2
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS	Test Method
FCC 15.407:2006	ANSI C63.4:2003 DA 02-2138:2002

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

COMMENTS

EUT OPERATING MODES

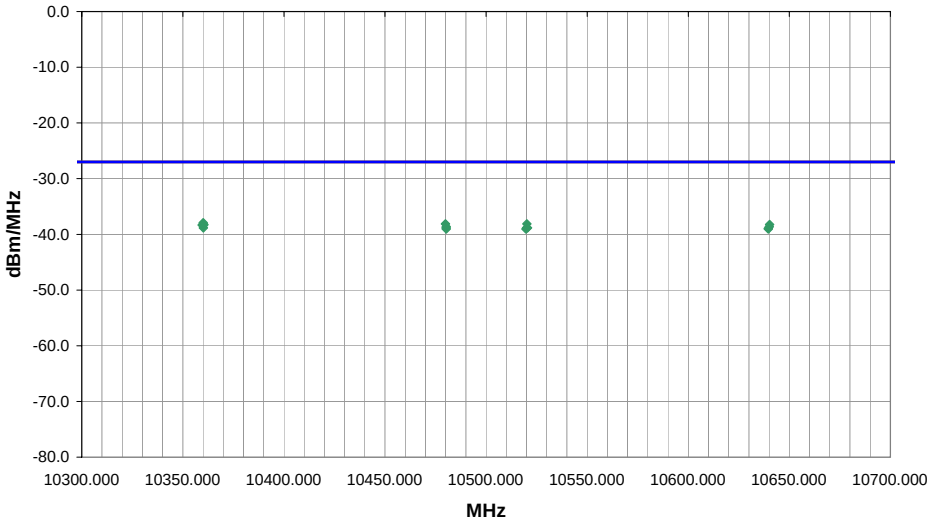
Transmitting 802.11(n), 20 MHz wide. See comments for channel and data rate.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	31
Configuration #	1
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts/MHz)	EIRP (dBm/MHz)	Spec. Limit (dBm/MHz)	Compared to Spec. (dB)	Comments

NORTHWEST EMC

Spurious Radiated Emissions - EIRP

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio			Work Order:	SPTE0070
Serial Number:	SY720000658			Date:	11/28/07
Customer:	Spectrum Technology, Inc.			Temperature:	20°
Attendees:	Rod Munro			Humidity:	28%
Project:	None			Barometric Pres.:	30.42
Tested by:	Rod Peloquin	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS	Test Method
FCC 15.407:2006	ANSI C63.4:2003 DA 02-2138:2002

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

COMMENTS

EUT OPERATING MODES

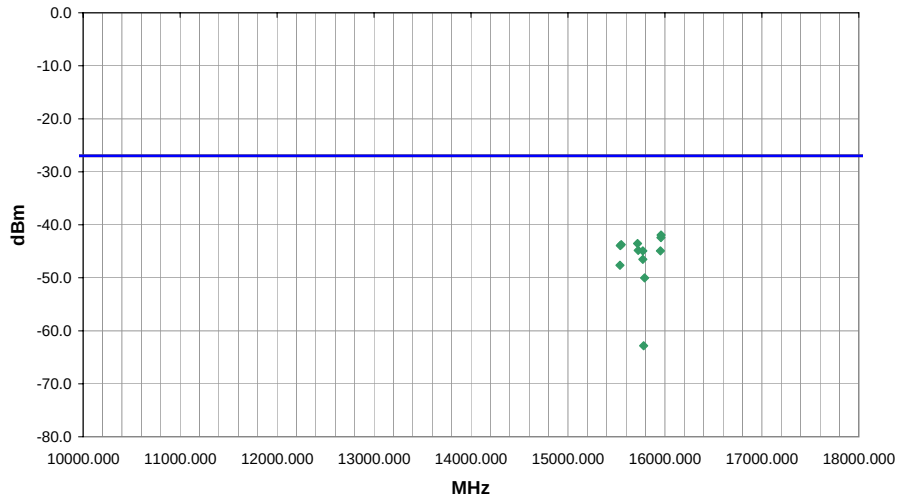
802.11(n), 20MHz, Chain A / HT0

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	18
Configuration #	1
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
15961.080			56.0	1.2			H-Horn	PK		-41.9	-27.0	-14.9	Channel 64, Chain A / HT0, Tablet on end
15959.500			355.0	1.2			V-Horn	PK		-42.4	-27.0	-15.4	Channel 64, Chain A / HT0, Tablet horizontal
15717.670			62.0	1.0			H-Horn	PK		-43.5	-27.0	-16.5	Channel 48, Chain A / HT0, Tablet on side
15549.520			347.0	1.3			V-Horn	PK		-43.7	-27.0	-16.7	Channel 36, Chain A / HT0, Tablet horizontal
15538.880			65.0	1.0			H-Horn	PK		-43.9	-27.0	-16.9	Channel 36, Chain A / HT0, Tablet on side
15723.960			346.0	1.4			V-Horn	PK		-44.8	-27.0	-17.8	Channel 48, Chain A / HT0, Tablet horizontal
15772.670			64.0	1.0			H-Horn	PK		-44.9	-27.0	-17.9	Channel 52, Chain A / HT0, Tablet on end
15953.080			1.0	1.2			H-Horn	PK		-44.9	-27.0	-17.9	Channel 64, Chain A / HT0, Tablet on side
15772.080			347.0	1.4			V-Horn	PK		-46.5	-27.0	-19.5	Channel 52, Chain A / HT0, Tablet horizontal
15536.080			9.0	1.0			H-Horn	PK		-47.6	-27.0	-20.6	Channel 36, Chain A / HT0, Tablet on end

NORTHWEST EMC

Spurious Radiated Emissions - EIRP

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/28/07
Customer:	Spectrum Technology, Inc.	Temperature:	20°
Attendees:	Rod Munro	Humidity:	28%
Project:	None	Barometric Pres.:	30.42
Tested by:	Rod Peloquin	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.407:2006	ANSI C63.4:2003 DA 02-2138:2002

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

COMMENTS

EUT OPERATING MODES

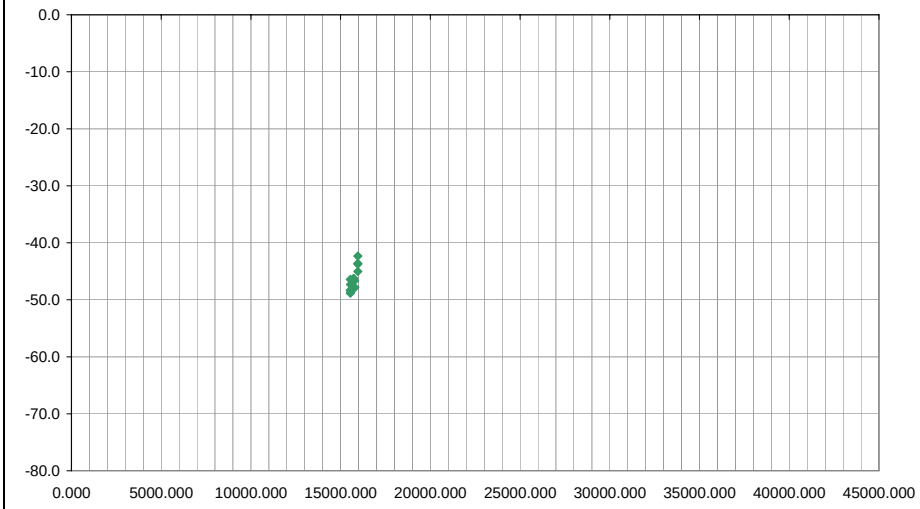
802.11(n), 20MHz, Chain AB / HT8

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	19
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)	EIRP dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
15962.960	46.8	6.1	178.0	1.3	3.0	0.0	V-Horn	PK	0.0	-42.3	74.0	-116.3	Channel 64, Chain AB / HT8, Tablet horizontal
15960.420	45.5	6.1	62.0	1.4	3.0	0.0	H-Horn	PK	0.0	-43.6	74.0	-117.6	Channel 64, Chain AB / HT8, Tablet on side
15962.290	45.4	6.1	239.0	1.2	3.0	0.0	H-Horn	PK	0.0	-43.7	74.0	-117.7	Channel 64, Chain AB / HT8, Tablet horizontal
15961.540	44.1	6.1	2.0	1.1	3.0	0.0	V-Horn	PK	0.0	-45.0	74.0	-119.0	Channel 64, Chain AB / HT8, Tablet on side
15724.620	43.1	5.9	61.0	1.2	3.0	0.0	H-Horn	PK	0.0	-46.2	74.0	-120.2	Channel 48, Chain AB / HT8, Tablet on side
15544.170	43.1	5.7	242.0	1.3	3.0	0.0	H-Horn	PK	0.0	-46.4	74.0	-120.4	Channel 36, Chain AB / HT8, Tablet horizontal
15778.920	42.7	5.9	183.0	1.4	3.0	0.0	V-Horn	PK	0.0	-46.6	74.0	-120.6	Channel 52, Chain AB / HT8, Tablet horizontal

NORTHWEST EMC

Spurious Radiated Emissions - EIRP

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/30/07
Customer:	Spectrum Technology, Inc.	Temperature:	20°
Attendees:	Rod Munro	Humidity:	24%
Project:	None	Barometric Pres.:	29.97
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.407:2006	ANSI C63.4:2003 DA 02-2138:2002

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

COMMENTS

Tablet vertical

EUT OPERATING MODES

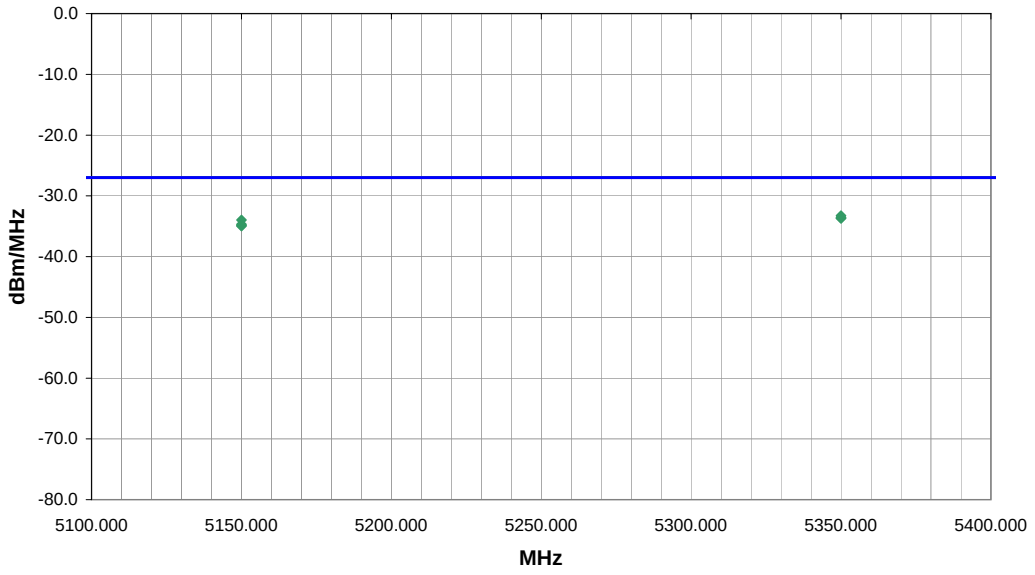
802.11(n), 20 MHz wide

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	29
Configuration #	1
Results	Pass

Signature Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts/MHz)	EIRP (dBm/MHz)	Spec. Limit (dBm/MHz)	Compared to Spec. (dB)	Comments
5350.000			298.0	1.0			H-Horn	PK	4.71E-07	-33.3	-27.0	-6.3	Ch. 64, Chain A, HT0
5350.000			-1.0	1.0			H-Horn	PK	4.39E-07	-33.6	-27.0	-6.6	Ch. 64, Chain AB, HT8
5350.000			308.0	1.0			H-Horn	PK	4.29E-07	-33.7	-27.0	-6.7	Ch. 64, Chain AB, HT8
5350.000			171.0	1.0			V-Horn	PK	4.29E-07	-33.7	-27.0	-6.7	Ch. 64, Chain A, HT0
5150.000			255.0	1.1			V-Horn	PK	4.01E-07	-34.0	-27.0	-7.0	Ch. 36, Chain AB, HT8
5150.000			37.0	1.0			V-Horn	PK	3.41E-07	-34.7	-27.0	-7.7	Ch. 36, Chain A, HTO
5150.000			-1.0	1.0			H-Horn	PK	3.26E-07	-34.9	-27.0	-7.9	Ch. 36, Chain AB, HT8
5150.000			360.0	1.0			H-Horn	PK	3.18E-07	-35.0	-27.0	-8.0	Ch. 36, Chain A, HTO

NORTHWEST EMC

Spurious Radiated Emissions - EIRP

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio			Work Order:	SPTE0070
Serial Number:	SY720000658			Date:	12/03/07
Customer:	Spectrum Technology, Inc.			Temperature:	22
Attendees:	Rod Munro			Humidity:	39%
Project:	None			Barometric Pres.:	1005.2
Tested by:	Holly Ashkannejhad	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS	Test Method
FCC 15.407:2006	ANSI C63.4:2003 DA 02-2138:2002

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

COMMENTS

EUT OPERATING MODES

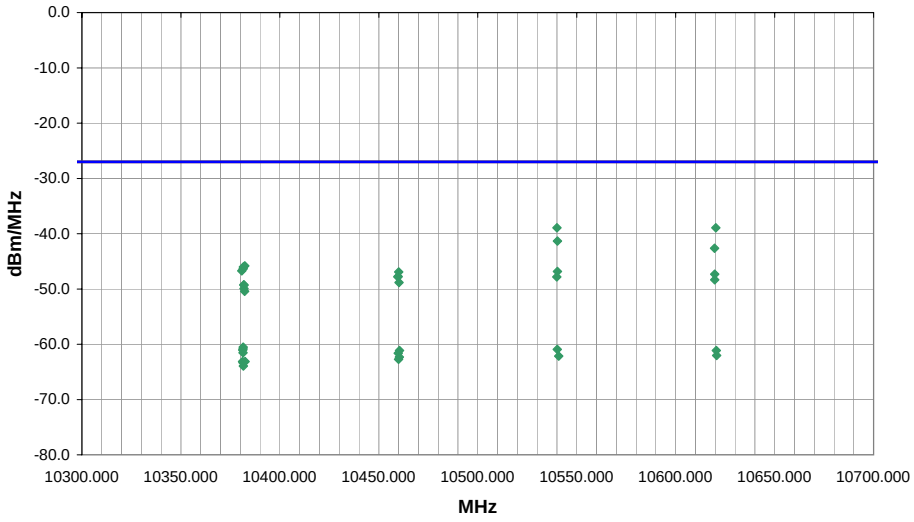
Transmitting 802.11(n), 40 MHz wide. See comments for channel and data rate.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	33
Configuration #	1
Results	Pass

Signature Holly Ashkannejhad



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts/MHz)	EIRP (dBm/MHz)	Spec. Limit (dBm/MHz)	Compared to Spec. (dB)	Comments
10540.020			210.0	1.0			V-Horn	PK	1.28E-07	-38.9	-27.0	-11.9	Ch.54, HT8, Chain AB, Tablet horizontal
10620.260			154.0	1.0			V-Horn	PK	1.28E-07	-38.9	-27.0	-11.9	Ch.62, HT8, Chain AB, Tablet horizontal
10540.230			152.0	1.0			H-Horn	PK	7.36E-08	-41.3	-27.0	-14.3	Ch.54, HT8, Chain AB, Tablet vertical
10619.620			261.0	1.0			H-Horn	PK	5.46E-08	-42.6	-27.0	-15.6	Ch.62, HT8, Chain AB, Tablet vertical
10382.270			242.0	1.6			V-Horn	PK	2.61E-08	-45.8	-27.0	-18.8	Ch. 38, HT0, Chain A, Tablet horizontal
10381.570			309.0	1.4			H-Horn	PK	2.50E-08	-46.0	-27.0	-19.0	Ch. 38, HT0, Chain A, Tablet on end
10381.510			37.0	1.6			V-Horn	PK	2.33E-08	-46.3	-27.0	-19.3	Ch.38, HT8, Chain AB, Tablet horizontal
10380.800			31.0	1.6			V-Horn	PK	2.12E-08	-46.7	-27.0	-19.7	Ch. 38, HT0, Chain A, Tablet vertical
10540.290			248.0	1.0			V-Horn	PK	2.08E-08	-46.8	-27.0	-19.8	Ch.54, HT0, Chain A, Tablet horizontal
10460.100			35.0	1.0			V-Horn	PK	2.03E-08	-46.9	-27.0	-19.9	Ch.46, HT8, Chain AB, Tablet horizontal
10619.730			177.0	1.0			V-Horn	PK	1.85E-08	-47.3	-27.0	-20.3	Ch.62, HT0, Chain A, Tablet horizontal
10459.780			33.0	1.0			H-Horn	PK	1.69E-08	-47.7	-27.0	-20.7	Ch. 46, HT0, Chain A, Tablet vertical
10459.630			148.0	1.0			H-Horn	PK	1.65E-08	-47.8	-27.0	-20.8	Ch.46, HT8, Chain AB, Tablet vertical
10539.940			23.0	1.0			H-Horn	PK	1.65E-08	-47.8	-27.0	-20.8	Ch.54, HT0, Chain A, Tablet vertical
10619.720			25.0	1.0			H-Horn	PK	1.47E-08	-48.3	-27.0	-21.3	Ch.62, HT0, Chain A, Tablet vertical
10460.190			250.0	1.0			V-Horn	PK	1.31E-08	-48.8	-27.0	-21.8	Ch. 46, HT0, Chain A, Tablet horizontal

NORTHWEST EMC

Spurious Radiated Emissions - EIRP

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio			Work Order:	SPTE0070
Serial Number:	SY720000658			Date:	11/28/07
Customer:	Spectrum Technology, Inc.			Temperature:	21
Attendees:	Rod Munro			Humidity:	27%
Project:	None			Barometric Pres.:	30.42
Tested by:	Rod Peloquin	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS	Test Method
FCC 15.407:2006	ANSI C63.4:2003 DA 02-2138:2002

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

COMMENTS

EUT OPERATING MODES

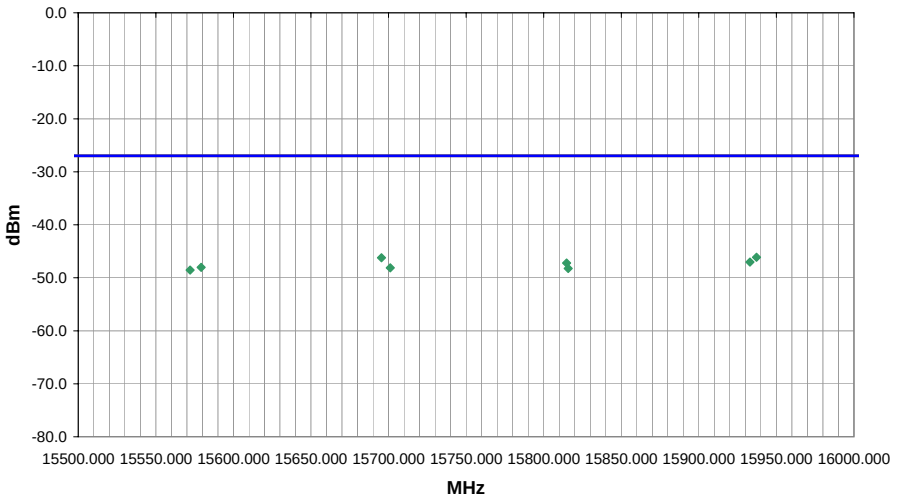
802.11(n), 40MHz, Chain AB / HT8

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	20
Configuration #	1
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
15937.140			55.0	1.0			H-Horn	PK		-46.1	-27.0	-19.1	Channel 62, Chain AB / HT8, Tablet on side
15695.400			60.0	1.2			H-Horn	PK		-46.2	-27.0	-19.2	Channel 46, Chain AB / HT8, Tablet on side
15932.930			176.0	1.0			V-Horn	PK		-47.0	-27.0	-20.0	Channel 62, Chain AB / HT8, Tablet horizontal
15814.750			166.0	1.2			V-Horn	PK		-47.2	-27.0	-20.2	Channel 54, Chain AB / HT8, Tablet horizontal
15579.160			167.0	1.2			V-Horn	PK		-48.0	-27.0	-21.0	Channel 38, Chain AB / HT8, Tablet horizontal
15701.120			165.0	1.2			V-Horn	PK		-48.1	-27.0	-21.1	Channel 46, Chain AB / HT8, Tablet horizontal
15815.800			57.0	1.0			H-Horn	PK		-48.2	-27.0	-21.2	Channel 54, Chain AB / HT8, Tablet on side
15572.060			50.0	1.0			H-Horn	PK		-48.5	-27.0	-21.5	Channel 38, Chain A / HT0, Tablet on side

NORTHWEST EMC

Spurious Radiated Emissions - EIRP

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio			Work Order:	SPTE0070
Serial Number:	SY720000658			Date:	12/04/07
Customer:	Spectrum Technology, Inc.			Temperature:	22
Attendees:	Rod Munro			Humidity:	42%
Project:	None			Barometric Pres.:	30.22
Tested by:	Rod Peloquin	Power:	120VAC/60Hz	Job Site:	EV01

TEST SPECIFICATIONS	Test Method
FCC 15.407:2006	ANSI C63.4:2003 DA 02-2138:2002

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

COMMENTS

EUT OPERATING MODES

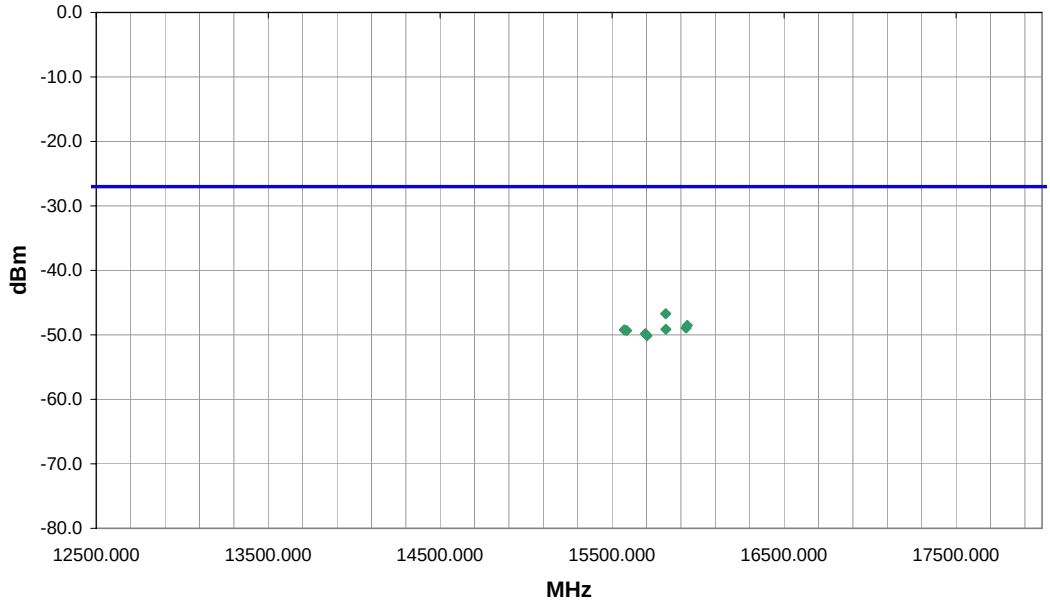
802.11(n), 40MHz, Chain AB / HT8

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	35
Configuration #	1
Results	Pass

Signature



Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector		EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
15811.400			62.0	1.2			H-Horn	PK		-46.7	-27.0	-19.7	Channel 54
15937.350			60.0	1.0			H-Horn	PK		-48.5	-27.0	-21.5	Channel 62
15929.650			46.0	1.0			V-Horn	PK		-48.9	-27.0	-21.9	Channel 62
15812.150			39.0	1.0			V-Horn	PK		-49.1	-27.0	-22.1	Channel 54
15570.250			172.0	1.0			V-Horn	PK		-49.2	-27.0	-22.2	Channel 38
15584.900			232.0	1.0			H-Horn	PK		-49.3	-27.0	-22.3	Channel 38
15692.950			16.0	1.0			V-Horn	PK		-49.8	-27.0	-22.8	Channel 46
15702.550			63.0	1.0			H-Horn	PK		-50.1	-27.0	-23.1	Channel 46

NORTHWEST EMC

Spurious Radiated Emissions - EIRP

PSA 2007.05.07
EMI 2006.11.29

EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio	Work Order:	SPTE0070
Serial Number:	SY720000658	Date:	11/30/07
Customer:	Spectrum Technology, Inc.	Temperature:	20°
Attendees:	Rod Munro	Humidity:	24%
Project:	None	Barometric Pres.:	29.97
Tested by:	Holly Ashkannejhad	Power: 120VAC/60Hz	Job Site: EV01

TEST SPECIFICATIONS	Test Method
FCC 15.407:2006	ANSI C63.4:2003 DA 02-2138:2002

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

COMMENTS

Tablet vertical

EUT OPERATING MODES

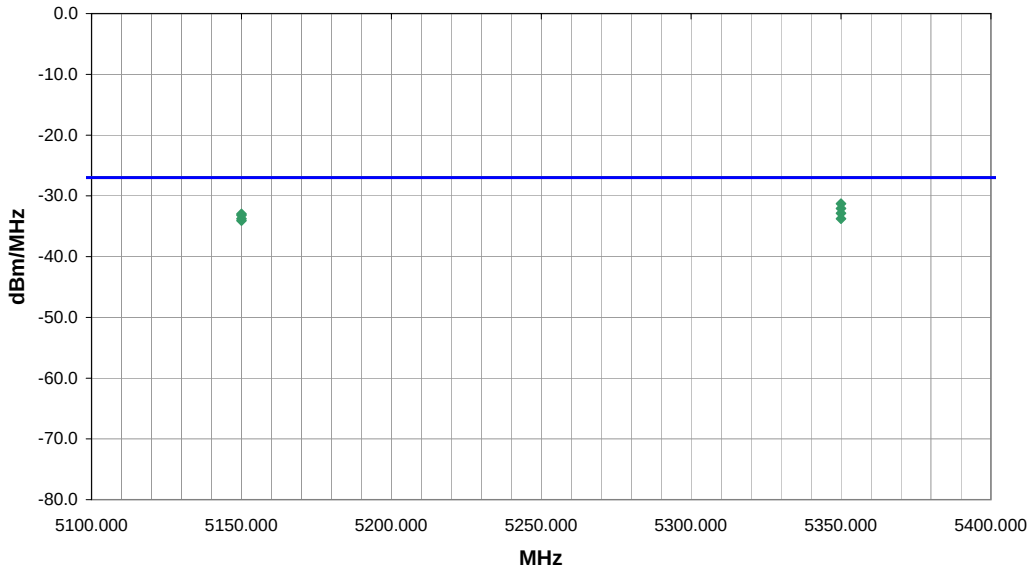
802.11(n), 40 MHz wide

DEVIATIONS FROM TEST STANDARD

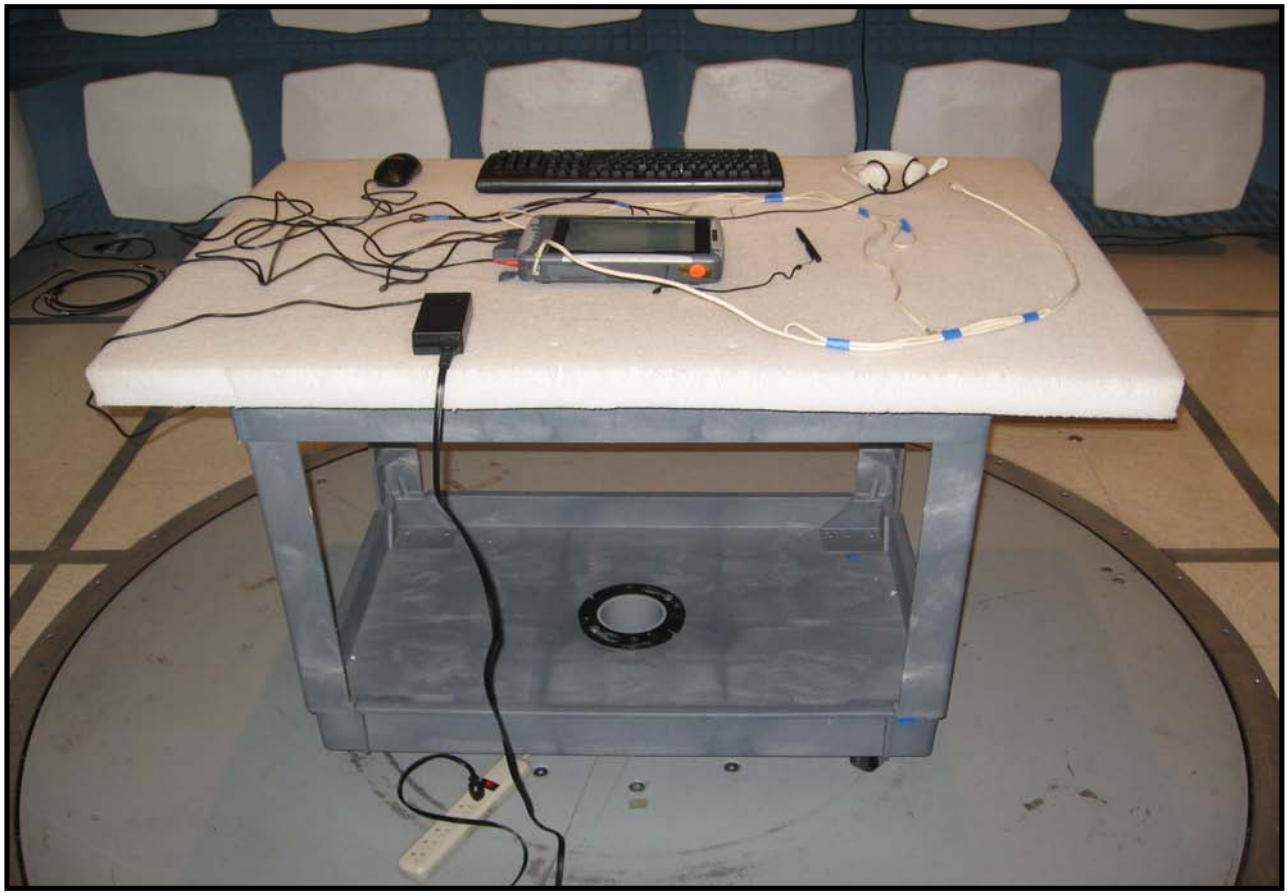
No deviations.

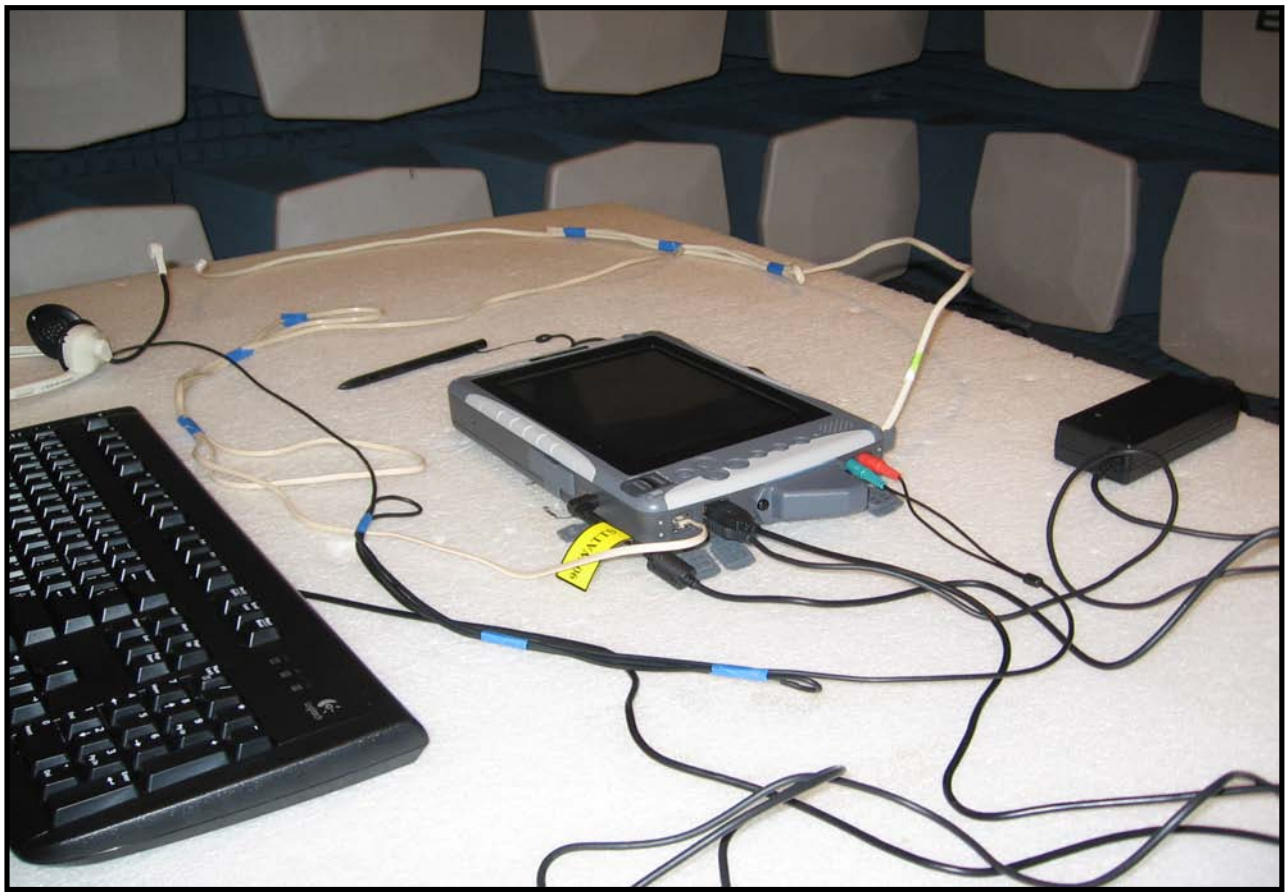
Run #	30
Configuration #	1
Results	Pass

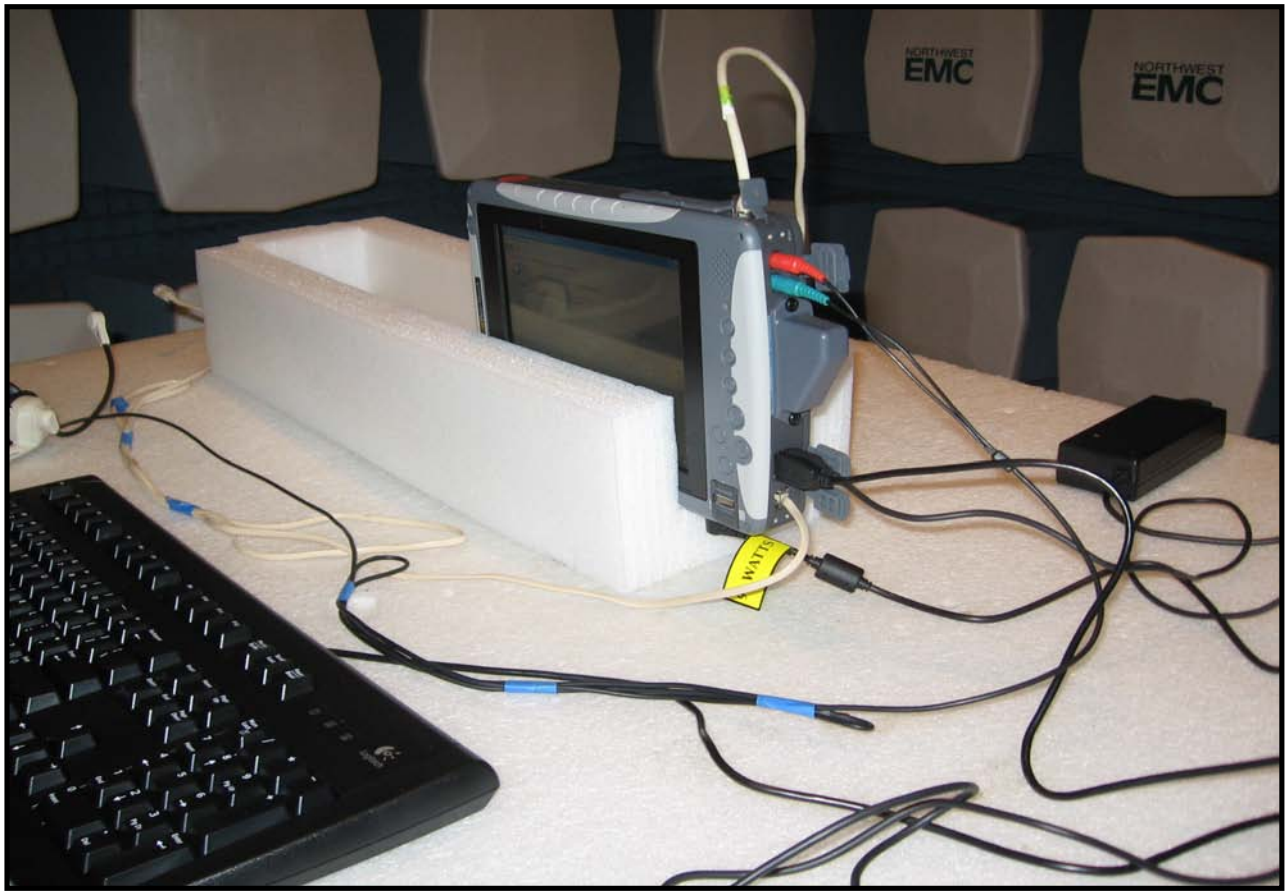
Signature Holly Ashkannejhad

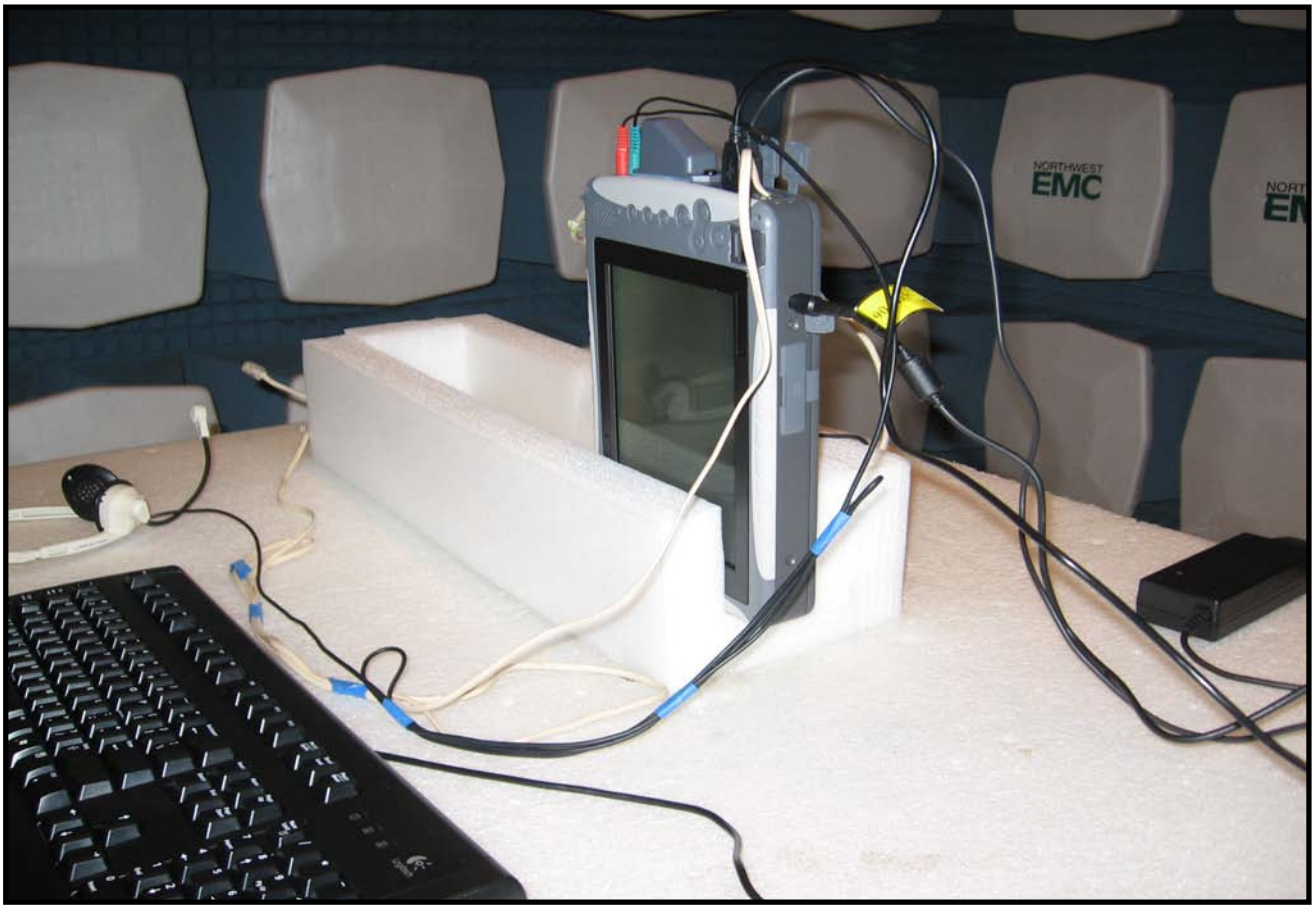


Freq (MHz)			Azimuth (degrees)	Height (meters)			Polarity	Detector	EIRP (Watts/MHz)	EIRP (dBm/MHz)	Spec. Limit (dBm/MHz)	Compared to Spec. (dB)	Comments
5350.000			39.0	1.0			H-Horn	PK	7.46E-07	-31.3	-27.0	-4.3	Ch. 62, Chain A, HT0
5350.000			360.0	1.0			V-Horn	PK	6.21E-07	-32.1	-27.0	-5.1	Ch. 62, Chain A, HT0
5350.000			218.0	1.0			H-Horn	PK	5.16E-07	-32.9	-27.0	-5.9	Ch. 62, Chain AB, HT8
5150.000			284.0	1.0			V-Horn	PK	5.05E-07	-33.0	-27.0	-6.0	Ch. 38, Chain A, HTO
5150.000			360.0	1.0			H-Horn	PK	4.82E-07	-33.2	-27.0	-6.2	Ch. 38, Chain A, HTO
5150.000			-1.0	1.0			V-Horn	PK	4.20E-07	-33.8	-27.0	-6.8	Ch. 38, Chain AB, HT8
5350.000			269.0	1.0			V-Horn	PK	4.20E-07	-33.8	-27.0	-6.8	Ch. 62, Chain AB, HT8
5150.000			360.0	1.0			H-Horn	PK	3.92E-07	-34.1	-27.0	-7.1	Ch. 38, Chain AB, HT8






NORTHWEST
EMC
NORTHWEST
EMC


NORTHWEST
EMC

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, Bluetooth, high channel, GFSK, DH5. 802.11G high @ 54MBit.
Continuous Tx, Bluetooth, mid channel, GFSK, DH5. 802.11G mid @ 54MBit.
Continuous Tx, Bluetooth, low channel, GFSK, DH5. 802.11G low @ 54MBit.
Continuous Tx, Bluetooth, low channel, GFSK, DH5. 802.11a (chain b, wide) low @ 54MBit.

POWER SETTINGS INVESTIGATED
120VAC/60Hz

CONFIGURATIONS INVESTIGATED
SPTE0070 - 2) Conducted Emissions

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
LISN	Solar	9252-50-R-24-BNC	LIP	12/20/2006	13 mo
Attenuator	Tektronix	011-0059-02	ATC	12/27/2006	13 mo
High Pass Filter	TTE	H97-100K-50-720B	HFX	8/22/2006	24 mo
LISN	Solar	9252-50-R-24-BNC	LIR	11/20/2007	13 mo
Receiver	Rohde & Schwartz	ESCI	ARG	12/7/2006	13 mo

MEASUREMENT BANDWIDTHS

	Frequency Range (MHz)	Peak Data (kHz)	Quasi-Peak Data (kHz)	Average Data (kHz)
	0.01 - 0.15	1.0	0.2	0.2
	0.15 - 30.0	10.0	9.0	9.0
	30.0 - 1000	100.0	120.0	120.0
	Above 1000	1000.0	N/A	1000.0

Measurements were made using the bandwidths and detectors specified. No video filter was used.

MEASUREMENT UNCERTAINTY

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

TEST DESCRIPTION

Using the mode of operation and configuration noted within this report, conducted emissions tests were performed. The frequency range investigated (scanned), is also noted in this report. Conducted power line measurements are made, unless otherwise specified, over the frequency range from 150 kHz to 30 MHz to determine the line-to-ground radio-noise voltage that is conducted from the EUT power-input terminals that are directly (or indirectly via separate transformer or power supplies) connected to a public power network. Equipment is tested with power cords that are normally used or that have electrical or shielding characteristics that are the same as those cords normally used. Typically those measurements are made using a LISN (Line Impedance Stabilization Network), the 50ohm measuring port is terminated by a 50ohm EMI meter or a 50ohm resistive load. All 50ohm measuring ports of the LISN are terminated by 50ohm.

NORTHWEST

EMC

CONDUCTED EMISSIONS

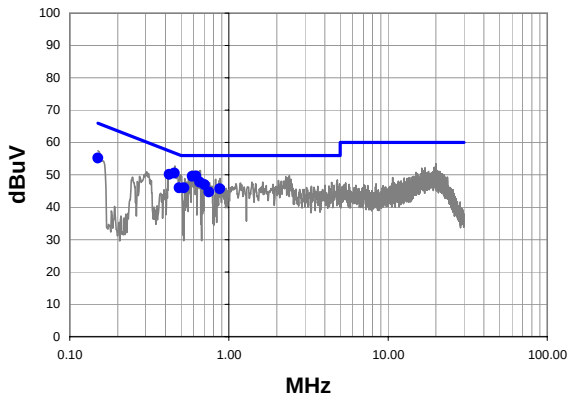
Version 2007.8.27
PSA-ESCI 2007.11.29

Work Order:	SPTE0070	**Date:**	11/30/07	
Project:	None	**Temperature:**	21°	
Job Site:	EV07	**Humidity:**	30	
Serial Number:	SY720000658	**Barometric Pres.:**	30.22	**Tested by:** Ethan Schoonover
EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio and Bluetooth module GUBTC41M-TH			
Configuration:	2 - Conducted Emissions			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuous Tx, Bluetooth, Low channel, GFSK, DH5. 802.11G low @ 54MBit.			
Deviations:	No deviations.			
Comments:	Tablet Horizontal			

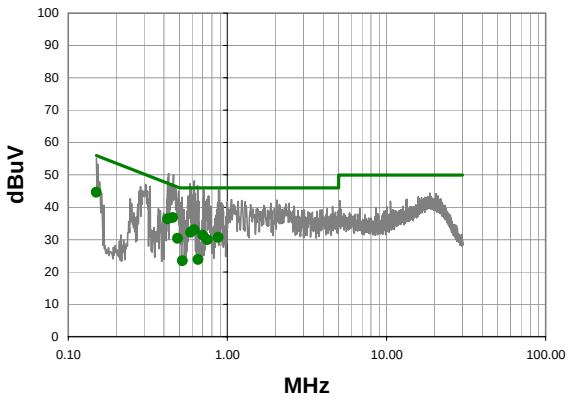
Test Specifications	**Class B**	**Test Method**
FCC 15.207:2006		ANSI C63.4:2003

Run #	1	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

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)
0.454	29.7	0.8	50.5	56.8	-6.3
0.619	28.9	0.7	49.6	56.0	-6.4
0.588	28.8	0.8	49.6	56.0	-6.4
0.423	29.3	0.9	50.2	57.4	-7.2
0.654	27.1	0.7	47.8	56.0	-8.2
0.701	26.3	0.7	47.0	56.0	-9.0
0.521	25.2	0.8	46.0	56.0	-10.0
0.487	25.2	0.8	46.0	56.2	-10.2
0.877	25.1	0.6	45.7	56.0	-10.3
0.150	33.2	2.0	55.2	66.0	-10.8
0.751	24.1	0.7	44.8	56.0	-11.2

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.454	16.0	0.8	36.8	46.8	-10.0
0.423	15.5	0.9	36.4	47.4	-11.0
0.150	22.6	2.0	44.6	56.0	-11.4
0.619	12.3	0.7	33.0	46.0	-13.0
0.588	11.5	0.8	32.3	46.0	-13.7
0.701	10.7	0.7	31.4	46.0	-14.6
0.877	10.1	0.6	30.7	46.0	-15.3
0.487	9.5	0.8	30.3	46.2	-15.9
0.751	9.3	0.7	30.0	46.0	-16.0
0.654	3.1	0.7	23.8	46.0	-22.2
0.521	2.6	0.8	23.4	46.0	-22.6

NORTHWEST

EMC

CONDUCTED EMISSIONS

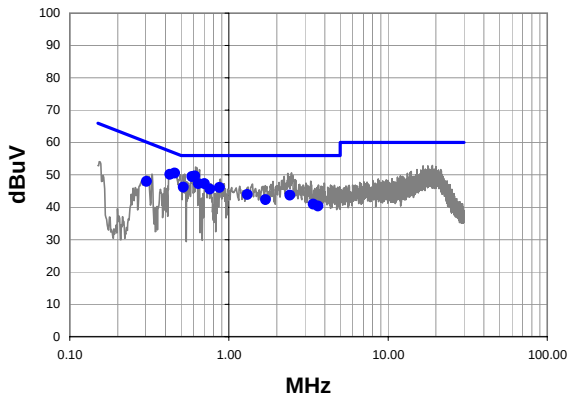
Version 2007.8.27
PSA-ESCI 2007.11.29

Work Order:	SPTE0070	**Date:**	11/30/07		
Project:	None	**Temperature:**	21°		
Job Site:	EV07	**Humidity:**	30		
Serial Number:	SY720000658	**Barometric Pres.:**	30.22	**Tested by:**	Ethan Schoonover
EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio and Bluetooth module GUBTC41M-TH				
Configuration:	2 - Conducted Emissions				
Customer:	Spectrum Technology, Inc.				
Attendees:	Rod Munro				
EUT Power:	120VAC/60Hz				
Operating Mode:	Continuous Tx, Bluetooth, Low channel, GFSK, DH5. 802.11G low @ 54MBit.				
Deviations:	No deviations.				
Comments:	Tablet Horizontal				

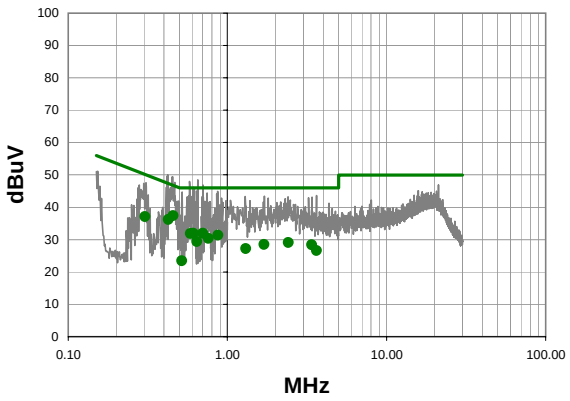
Test Specifications	**Class B**	**Test Method**
FCC 15.207:2006		ANSI C63.4:2003

Run #	2	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

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)
0.457	29.7	0.8	50.5	56.7	-6.2
0.611	28.9	0.7	49.6	56.0	-6.4
0.586	28.7	0.8	49.5	56.0	-6.5
0.426	29.3	0.9	50.2	57.3	-7.2
0.644	26.6	0.7	47.3	56.0	-8.7
0.701	26.6	0.7	47.3	56.0	-8.7
0.517	25.4	0.8	46.2	56.0	-9.8
0.875	25.5	0.6	46.1	56.0	-9.9
0.759	24.9	0.7	45.6	56.0	-10.4
1.308	23.4	0.5	43.9	56.0	-12.1
0.304	27.0	0.9	47.9	60.1	-12.2
2.420	23.2	0.5	43.7	56.0	-12.3
1.700	21.8	0.5	42.3	56.0	-13.7
3.388	20.5	0.5	41.0	56.0	-15.0
3.640	19.9	0.5	40.4	56.0	-15.6

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.457	16.5	0.8	37.3	46.7	-9.4
0.426	15.3	0.9	36.2	47.3	-11.2
0.304	16.2	0.9	37.1	50.1	-13.0
0.701	11.3	0.7	32.0	46.0	-14.0
0.611	11.2	0.7	31.9	46.0	-14.1
0.586	11.1	0.8	31.9	46.0	-14.1
0.875	10.8	0.6	31.4	46.0	-14.6
0.759	9.7	0.7	30.4	46.0	-15.6
0.644	8.7	0.7	29.4	46.0	-16.6
2.420	8.6	0.5	29.1	46.0	-16.9
1.700	8.0	0.5	28.5	46.0	-17.5
3.388	7.9	0.5	28.4	46.0	-17.6
1.308	6.7	0.5	27.2	46.0	-18.8
3.640	6.1	0.5	26.6	46.0	-19.4
0.517	2.6	0.8	23.4	46.0	-22.6

NORTHWEST

EMC

CONDUCTED EMISSIONS

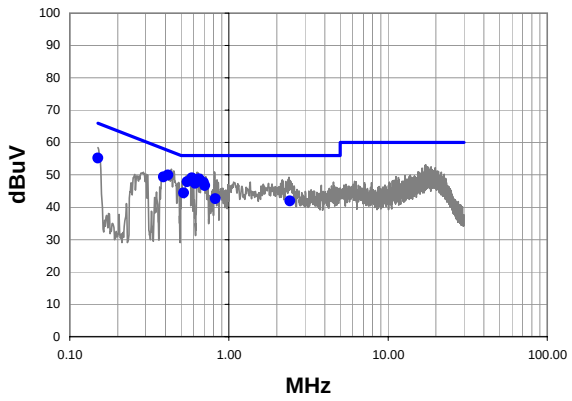
Version 2007.8.27
PSA-ESCI 2007.11.29

Work Order:	SPTE0070	**Date:**	11/30/07	
Project:	None	**Temperature:**	21°	
Job Site:	EV07	**Humidity:**	30	
Serial Number:	SY720000658	**Barometric Pres.:**	30.22	**Tested by:** Ethan Schoonover
EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio and Bluetooth module GUBTC41M-TH			
Configuration:	2 - Conducted Emissions			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuous Tx, Bluetooth, mid channel, GFSK, DH5. 802.11G mid @ 54MBit.			
Deviations:	No deviations.			
Comments:	Tablet Horizontal			

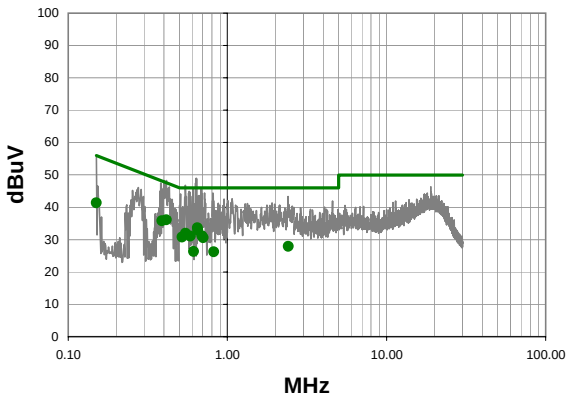
Test Specifications	**Class B**	**Test Method**
FCC 15.207:2006		ANSI C63.4:2003

Run #	5	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

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)
0.587	28.3	0.8	49.1	56.0	-6.9
0.648	28.0	0.7	48.7	56.0	-7.3
0.651	27.8	0.7	48.5	56.0	-7.5
0.414	29.1	0.9	50.0	57.6	-7.6
0.548	27.1	0.8	47.9	56.0	-8.1
0.692	27.0	0.7	47.7	56.0	-8.3
0.615	26.6	0.7	47.3	56.0	-8.7
0.389	28.5	0.9	49.4	58.1	-8.7
0.706	26.0	0.7	46.7	56.0	-9.3
0.150	33.2	2.0	55.2	66.0	-10.8
0.519	23.6	0.8	44.4	56.0	-11.6
0.822	22.0	0.6	42.6	56.0	-13.4
2.416	21.4	0.5	41.9	56.0	-14.1

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.414	15.2	0.9	36.1	47.6	-11.5
0.389	14.9	0.9	35.8	48.1	-12.3
0.648	12.9	0.7	33.6	46.0	-12.4
0.651	12.2	0.7	32.9	46.0	-13.1
0.548	11.2	0.8	32.0	46.0	-14.0
0.150	19.3	2.0	41.3	56.0	-14.7
0.692	10.5	0.7	31.2	46.0	-14.8
0.587	10.3	0.8	31.1	46.0	-14.9
0.519	10.0	0.8	30.8	46.0	-15.2
0.706	9.9	0.7	30.6	46.0	-15.4
2.416	7.4	0.5	27.9	46.0	-18.1
0.615	5.6	0.7	26.3	46.0	-19.7
0.822	5.6	0.6	26.2	46.0	-19.8

NORTHWEST

EMC

CONDUCTED EMISSIONS

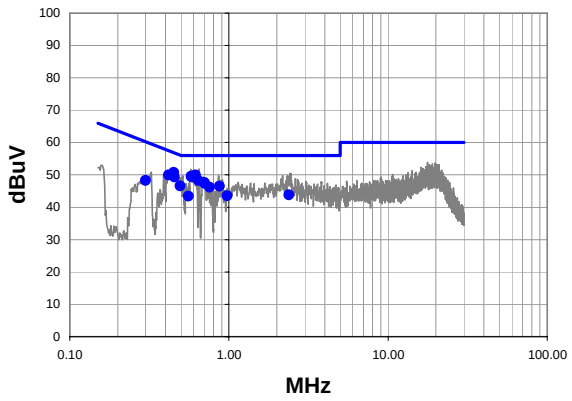
Version 2007.8.27
PSA-ESCI 2007.11.29

Work Order:	SPTE0070	**Date:**	11/30/07		
Project:	None	**Temperature:**	21°		
Job Site:	EV07	**Humidity:**	30		
Serial Number:	SY720000658	**Barometric Pres.:**	30.22	**Tested by:**	Ethan Schoonover
EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio and Bluetooth module GUBTC41M-TH				
Configuration:	2 - Conducted Emissions				
Customer:	Spectrum Technology, Inc.				
Attendees:	Rod Munro				
EUT Power:	120VAC/60Hz				
Operating Mode:	Continuous Tx, Bluetooth, mid channel, GFSK, DH5. 802.11G mid @ 54MBit.				
Deviations:	No deviations.				
Comments:	Tablet Horizontal				

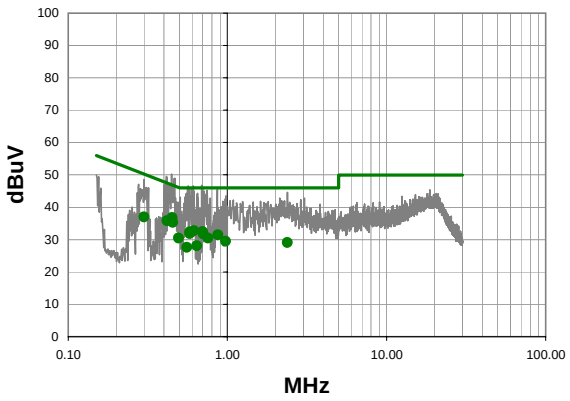
Test Specifications	**Class B**	**Test Method**
FCC 15.207:2006		ANSI C63.4:2003

Run #	6	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

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)
0.616	29.2	0.7	49.9	56.0	-6.1
0.450	29.9	0.8	50.7	56.9	-6.1
0.580	28.8	0.8	49.6	56.0	-6.4
0.581	28.7	0.8	49.5	56.0	-6.5
0.454	28.5	0.8	49.3	56.8	-7.5
0.419	29.1	0.9	50.0	57.5	-7.5
0.644	27.5	0.7	48.2	56.0	-7.8
0.699	27.0	0.7	47.7	56.0	-8.3
0.704	26.7	0.7	47.4	56.0	-8.6
0.493	25.8	0.8	46.6	56.1	-9.5
0.872	25.9	0.6	46.5	56.0	-9.5
0.755	25.5	0.7	46.2	56.0	-9.8
0.300	27.3	0.9	48.2	60.2	-12.0
2.384	23.3	0.5	43.8	56.0	-12.2
0.974	23.0	0.5	43.5	56.0	-12.5
0.556	22.6	0.8	43.4	56.0	-12.6

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.450	16.0	0.8	36.8	46.9	-10.0
0.454	14.5	0.8	35.3	46.8	-11.5
0.419	14.9	0.9	35.8	47.5	-11.7
0.300	16.1	0.9	37.0	50.2	-13.2
0.616	12.0	0.7	32.7	46.0	-13.3
0.699	11.8	0.7	32.5	46.0	-13.5
0.581	11.6	0.8	32.4	46.0	-13.6
0.580	11.1	0.8	31.9	46.0	-14.1
0.704	11.1	0.7	31.8	46.0	-14.2
0.872	10.9	0.6	31.5	46.0	-14.5
0.755	9.8	0.7	30.5	46.0	-15.5
0.493	9.6	0.8	30.4	46.1	-15.7
0.974	9.0	0.5	29.5	46.0	-16.5
2.384	8.6	0.5	29.1	46.0	-16.9
0.644	7.4	0.7	28.1	46.0	-17.9
0.556	6.8	0.8	27.6	46.0	-18.4

NORTHWEST

EMC

CONDUCTED EMISSIONS

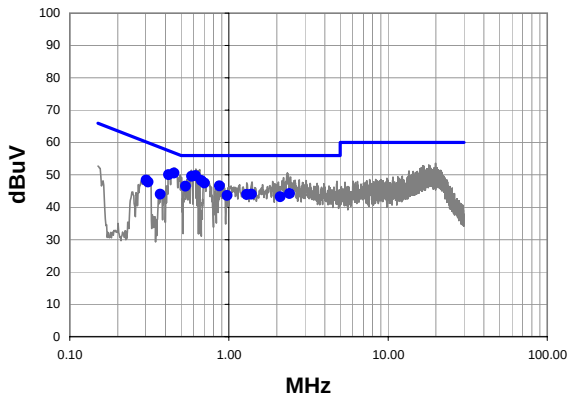
Version 2007.8.27
PSA-ESCI 2007.11.29

Work Order:	SPTE0070	**Date:**	11/30/07		
Project:	None	**Temperature:**	21°		
Job Site:	EV07	**Humidity:**	30		
Serial Number:	SY720000658	**Barometric Pres.:**	30.22	**Tested by:**	Ethan Schoonover
EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio and Bluetooth module GUBTC41M-TH				
Configuration:	2 - Conducted Emissions				
Customer:	Spectrum Technology, Inc.				
Attendees:	Rod Munro				
EUT Power:	120VAC/60Hz				
Operating Mode:	Continuous Tx, Bluetooth, high channel, GFSK, DH5. 802.11G high @ 54MBit.				
Deviations:	No deviations.				
Comments:	Tablet Horizontal				

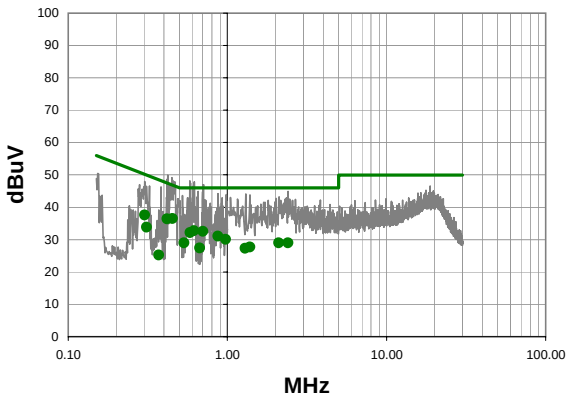
Test Specifications	**Class B**	**Test Method**
FCC 15.207:2006		ANSI C63.4:2003

Run #	7	**Line:**	Neutral	**Ext. Attenuation:**	20	**Results**	Pass

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)
0.617	29.0	0.7	49.7	56.0	-6.3
0.453	29.7	0.8	50.5	56.8	-6.3
0.584	28.8	0.8	49.6	56.0	-6.4
0.418	29.2	0.9	50.1	57.5	-7.4
0.669	27.6	0.7	48.3	56.0	-7.7
0.703	26.8	0.7	47.5	56.0	-8.5
0.872	26.0	0.6	46.6	56.0	-9.4
0.534	25.7	0.8	46.5	56.0	-9.5
2.404	23.7	0.5	44.2	56.0	-11.8
0.303	27.4	0.9	48.3	60.2	-11.8
1.384	23.5	0.5	44.0	56.0	-12.0
1.296	23.4	0.5	43.9	56.0	-12.1
0.311	26.8	0.9	47.7	59.9	-12.2
0.974	23.1	0.5	43.6	56.0	-12.4
2.100	22.7	0.5	43.2	56.0	-12.8
0.371	23.1	0.9	44.0	58.5	-14.5

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.453	15.7	0.8	36.5	46.8	-10.3
0.418	15.5	0.9	36.4	47.5	-11.1
0.303	16.7	0.9	37.6	50.2	-12.5
0.617	12.0	0.7	32.7	46.0	-13.3
0.703	11.9	0.7	32.6	46.0	-13.4
0.584	11.4	0.8	32.2	46.0	-13.8
0.872	10.5	0.6	31.1	46.0	-14.9
0.974	9.6	0.5	30.1	46.0	-15.9
0.311	12.9	0.9	33.8	49.9	-16.1
2.100	8.5	0.5	29.0	46.0	-17.0
2.404	8.5	0.5	29.0	46.0	-17.0
0.534	8.2	0.8	29.0	46.0	-17.0
1.384	7.2	0.5	27.7	46.0	-18.3
0.669	6.7	0.7	27.4	46.0	-18.6
1.296	6.8	0.5	27.3	46.0	-18.7
0.371	4.3	0.9	25.2	48.5	-23.3

NORTHWEST

EMC

CONDUCTED EMISSIONS

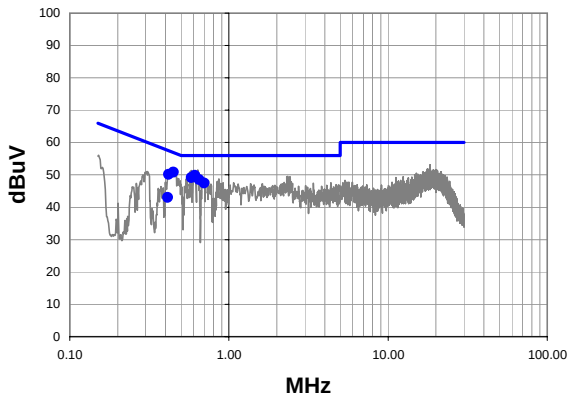
Version 2007.8.27
PSA-ESCI 2007.11.29

Work Order:	SPTE0070	**Date:**	11/30/07	
Project:	None	**Temperature:**	21°	
Job Site:	EV07	**Humidity:**	30	
Serial Number:	SY720000658	**Barometric Pres.:**	30.22	**Tested by:** Ethan Schoonover
EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio and Bluetooth module GUBTC41M-TH			
Configuration:	2 - Conducted Emissions			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Continuous Tx, Bluetooth, high channel, GFSK, DH5. 802.11G high @ 54MBit.			
Deviations:	No deviations.			
Comments:	Tablet Horizontal			

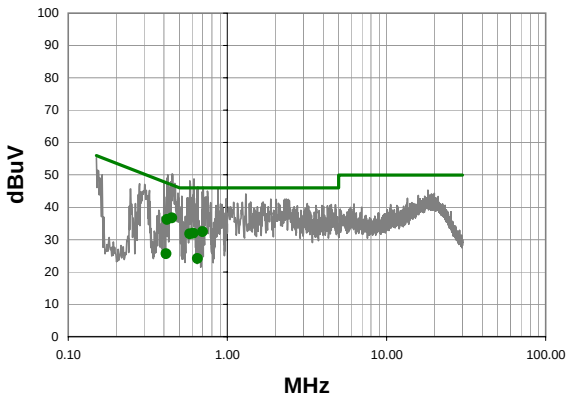
Test Specifications	**Class B**	**Test Method**
FCC 15.207:2006		ANSI C63.4:2003

Run #	8	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

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)
0.449	30.0	0.8	50.8	56.9	-6.0
0.612	29.1	0.7	49.8	56.0	-6.2
0.580	28.4	0.8	49.2	56.0	-6.8
0.418	29.3	0.9	50.2	57.5	-7.3
0.648	27.8	0.7	48.5	56.0	-7.5
0.699	26.8	0.7	47.5	56.0	-8.5
0.412	22.2	0.9	43.1	57.6	-14.5

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.449	15.9	0.8	36.7	46.9	-10.1
0.418	15.3	0.9	36.2	47.5	-11.3
0.699	11.8	0.7	32.5	46.0	-13.5
0.612	11.2	0.7	31.9	46.0	-14.1
0.580	11.0	0.8	31.8	46.0	-14.2
0.648	3.4	0.7	24.1	46.0	-21.9
0.412	4.8	0.9	25.7	47.6	-21.9

NORTHWEST

EMC

CONDUCTED EMISSIONS

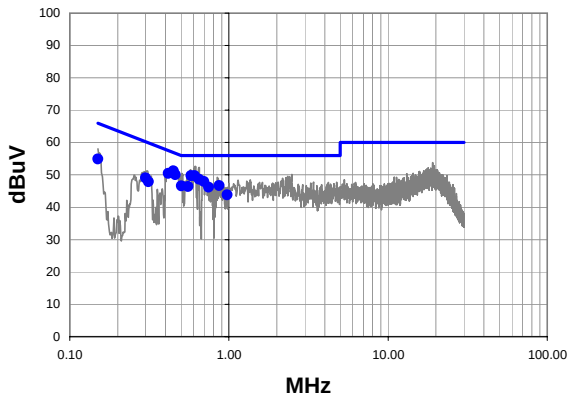
Version 2007.8.27
PSA-ESCI 2007.11.29

Work Order:	SPTE0070	**Date:**	11/30/07		
Project:	None	**Temperature:**	21°		
Job Site:	EV07	**Humidity:**	30		
Serial Number:	SY720000658	**Barometric Pres.:**	30.22	**Tested by:**	Ethan Schoonover
EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio and Bluetooth module GUBTC41M-TH				
Configuration:	2 - Conducted Emissions				
Customer:	Spectrum Technology, Inc.				
Attendees:	Rod Munro				
EUT Power:	120VAC/60Hz				
Operating Mode:	Continuous Tx, Bluetooth, low channel, GFSK, DH5. 802.11a (chain b, wide) low @ 54MBit.				
Deviations:	No deviations.				
Comments:	Tablet Horizontal				

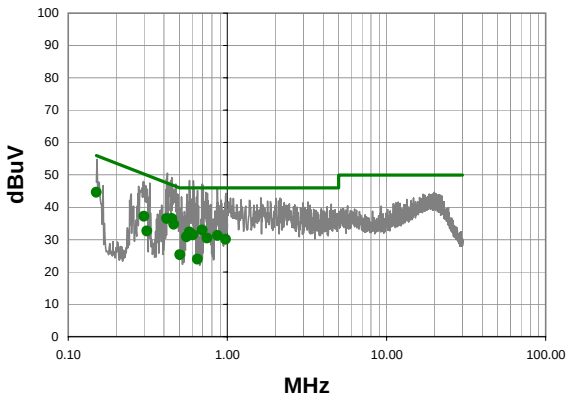
Test Specifications	**Class B**	**Test Method**
FCC 15.207:2006		ANSI C63.4:2003

Run #	17	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

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)
0.448	30.4	0.8	51.2	56.9	-5.7
0.578	29.0	0.8	49.8	56.0	-6.2
0.608	29.0	0.7	49.7	56.0	-6.3
0.461	29.2	0.8	50.0	56.7	-6.6
0.416	29.6	0.9	50.5	57.5	-7.1
0.648	27.9	0.7	48.6	56.0	-7.4
0.696	27.3	0.7	48.0	56.0	-8.0
0.870	26.1	0.6	46.7	56.0	-9.3
0.504	25.8	0.8	46.6	56.0	-9.4
0.554	25.6	0.8	46.4	56.0	-9.6
0.745	25.5	0.7	46.2	56.0	-9.8
0.150	32.9	2.0	54.9	66.0	-11.1
0.300	28.1	0.9	49.0	60.2	-11.2
0.313	26.9	0.9	47.8	59.9	-12.1
0.974	23.3	0.5	43.8	56.0	-12.2

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.448	15.7	0.8	36.5	46.9	-10.4
0.416	15.6	0.9	36.5	47.5	-11.1
0.150	22.6	2.0	44.6	56.0	-11.4
0.461	13.9	0.8	34.7	46.7	-11.9
0.300	16.3	0.9	37.2	50.2	-13.0
0.696	12.2	0.7	32.9	46.0	-13.1
0.578	11.6	0.8	32.4	46.0	-13.6
0.608	10.7	0.7	31.4	46.0	-14.6
0.870	10.7	0.6	31.3	46.0	-14.7
0.554	10.1	0.8	30.9	46.0	-15.1
0.745	9.8	0.7	30.5	46.0	-15.5
0.974	9.6	0.5	30.1	46.0	-15.9
0.313	11.7	0.9	32.6	49.9	-17.3
0.504	4.5	0.8	25.3	46.0	-20.7
0.648	3.2	0.7	23.9	46.0	-22.1

NORTHWEST

EMC

CONDUCTED EMISSIONS

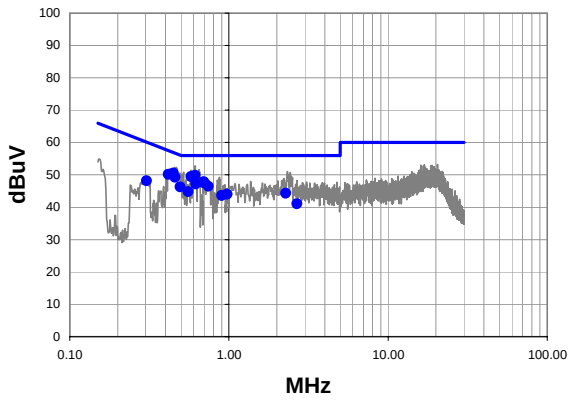
Version 2007.8.27
PSA-ESCI 2007.11.29

Work Order:	SPTE0070	**Date:**	11/30/07		
Project:	None	**Temperature:**	21°		
Job Site:	EV07	**Humidity:**	30		
Serial Number:	SY720000658	**Barometric Pres.:**	30.22	**Tested by:**	Ethan Schoonover
EUT:	IX350 with Intel 4965AGN 802.11(b)/(g)/(a)/(n) radio and Bluetooth module GUBTC41M-TH				
Configuration:	2 - Conducted Emissions				
Customer:	Spectrum Technology, Inc.				
Attendees:	Rod Munro				
EUT Power:	120AC/60Hz				
Operating Mode:	Continuous Tx, Bluetooth, low channel, GFSK, DH5. 802.11a (chain b, wide) low @ 54MBit.				
Deviations:	No deviations.				
Comments:	Tablet Horizontal				

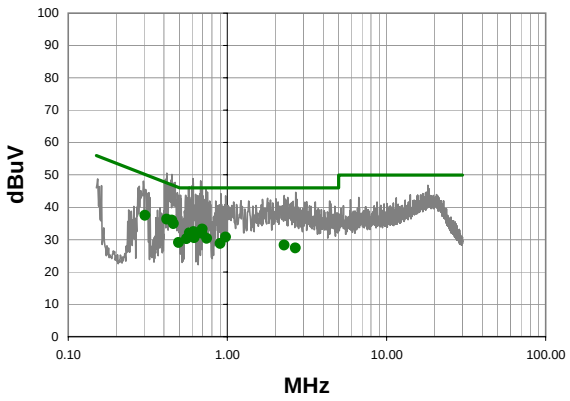
Test Specifications	**Class B**	**Test Method**
FCC 15.207:2006		ANSI C63.4:2003

Run #	21	**Line:**	High Line	**Ext. Attenuation:**	20	**Results**	Pass

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)
0.613	29.1	0.7	49.8	56.0	-6.2
0.448	29.7	0.8	50.5	56.9	-6.4
0.579	28.7	0.8	49.5	56.0	-6.5
0.417	29.3	0.9	50.2	57.5	-7.3
0.458	28.4	0.8	49.2	56.7	-7.5
0.697	27.2	0.7	47.9	56.0	-8.1
0.691	26.9	0.7	47.6	56.0	-8.4
0.621	26.4	0.7	47.1	56.0	-8.9
0.743	25.8	0.7	46.5	56.0	-9.5
0.495	25.5	0.8	46.3	56.1	-9.8
0.554	24.0	0.8	44.8	56.0	-11.2
2.280	23.8	0.5	44.3	56.0	-11.7
0.976	23.5	0.5	44.0	56.0	-12.0
0.304	27.2	0.9	48.1	60.1	-12.0
0.900	23.1	0.6	43.7	56.0	-12.3
2.680	20.6	0.5	41.1	56.0	-14.9

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.448	15.2	0.8	36.0	46.9	-10.9
0.417	15.4	0.9	36.3	47.5	-11.2
0.458	14.1	0.8	34.9	46.7	-11.8
0.304	16.6	0.9	37.5	50.1	-12.6
0.697	12.5	0.7	33.2	46.0	-12.8
0.613	11.7	0.7	32.4	46.0	-13.6
0.579	11.3	0.8	32.1	46.0	-13.9
0.691	11.3	0.7	32.0	46.0	-14.0
0.976	10.2	0.5	30.7	46.0	-15.3
0.621	9.8	0.7	30.5	46.0	-15.5
0.743	9.7	0.7	30.4	46.0	-15.6
0.554	9.5	0.8	30.3	46.0	-15.7
0.495	8.3	0.8	29.1	46.1	-17.0
0.900	8.2	0.6	28.8	46.0	-17.2
2.280	7.8	0.5	28.3	46.0	-17.7
2.680	6.9	0.5	27.4	46.0	-18.6