

Spectrum Technology, Inc.

IX-WL3945 in the IX750

July 02, 2007

Report No. SPTE0060.1

Report Prepared By



www.nwemc.com

1-888-EMI-CERT

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EMC Test Report



22975 NW Evergreen Parkway
Suite 400
Hillsboro, Oregon 97124

Certificate of Test
Issue Date: July 02, 2007
Spectrum Technology, Inc.
Model: IX-WL3945 in the IX750

Emissions				
Test Description	Specification	Test Method	Pass	Fail
Spurious Radiated Emissions	FCC 15.407:2006	ANSI C63.4:2003 DA 02-2138:2002	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Spurious Radiated Emissions	FCC 15.247 (DTS):2006	ANSI C63.4:2003 KDB No. 558074	<input checked="" type="checkbox"/>	<input type="checkbox"/>
AC Powerline Conducted Emissions	FCC 15.107:2006 Class B	ANSI C63.4:2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>
AC Powerline Conducted Emissions	FCC 15.207:2006	ANSI C63.4:2003	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Test Facility

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

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

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

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

Approved By:

Don Facteau, IS Manager

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

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

Revision Number	Description	Date	Page Number
00	None		

FCC: 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 89/336/EEC, 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 TÜV Product Service Group's Listing of Recognized Laboratories. It qualifies in connection with the TÜV Certification after Recognition of Agent's Testing Program for the product categories and/or standards shown in TÜV's current Listing of CARAT Laboratories, available from TÜV. A certificate was issued to represent that this laboratory continues to meet TÜV's CARAT Program requirements. Certificate No. USA0604C.



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



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



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



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



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



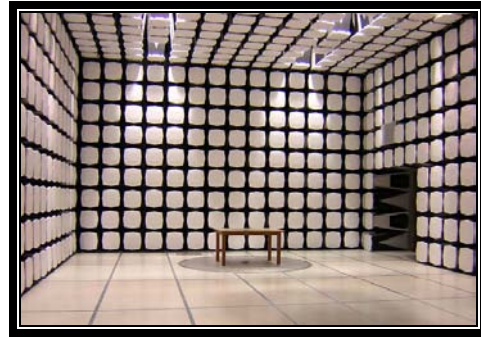
GOST: Northwest EMC, Inc. has been assessed and accredited by the Russian Certification bodies Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC, to perform EMC and Hygienic testing for Information Technology Products. As a result of their laboratory assessment, they will accept test results from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



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:	IX-WL3945 in the IX750
First Date of Test:	June 18, 2007
Last Date of Test:	June 22, 2007
Receipt Date of Samples:	June 18, 2007
Equipment Design Stage:	Production
Equipment Condition:	No Damage

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

802.11(a)/(b)/(g) radio in the IX750 host computer.

Testing Objective:

To demonstrate compliance of the radio to FCC 15.407 and 15.247 requirements. Only spurious radiated emissions and AC power line conducted emissions will be measured. Also an additional vehicular use configuration will be tested. Antenna port conducted data will be used from the Intel FCC grant, FCC ID: PD9WM3945ABG. DFS report for 5250-5350MHz bands is under the 11/7/2006 C2PC grant.

CONFIGURATION 2 SPTE0060**Software/Firmware Running during test**

Description	Version
Intel WLAN Test: Intel(r) PRO/Wireless 3945 ABG - CRTU	4.1.20.000

EUT

Description	Manufacturer	Model/Part Number	Serial Number
802.11(a)/(b)/(g) radio	Intel Corporation	IX-WL3945	Unknown

Peripherals in test setup boundary

Description	Manufacturer	Model/Part Number	Serial Number
Host Computer	General Dynamics Itronix Corporation	IX750	ZZGEG7136ZZ1381
AC Adapter	Delta Electronics, Inc.	ADP-48HB B	LZW0713000209
Office Dock	General Dynamics Itronix Corporation.	IX750 Office Dock	ZZTPE7109AD0107
Headset	Unknown	Unknown	Unknown
Mouse	Logitech	M-BE58	LZE02357693
Serial Modem	Intel Corporation	PCEM 7296	Unknown
Keyboard	Gateway	SK-9900U	C800441

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
Audio	No	1.6 m	No	Office Dock	Headset
LAN	No	3.0 m	No	Office Dock	Unterminated
Video	Yes	1.0 m	Yes	Office Dock	Unterminated
USB	Yes	1.3 m	No	Office Dock	Mouse
Serial	Yes	1.0 m	No	Office Dock	Serial Modem
USB	Yes	1.3 m	Yes	Office Dock	Keyboard
Serial	Yes	1.0 m	No	Host Computer	Unterminated
DC	No	1.3 m	Yes	Office Dock	AC Adapter
AC	No	1.8 m	No	AC Adapter	AC Mains

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	6/18/2007	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	6/22/2007	AC Powerline Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.

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

MODES OF OPERATION

Transmitting 802.11(a), 6Mbps
Transmitting 802.11(a), 36Mbps
Transmitting 802.11(a), 54Mbps

CHANNELS INVESTIGATED

5150-5250MHz band, Ch. 36 = 5180MHz
5150-5250MHz band, Ch. 48 = 5240MHz
5250-5350MHz band, Ch. 52 = 5260MHz
5250-5350MHz band, Ch. 64 = 5320MHz
5725-5825MHz band, Ch. 149 = 5745MHz
5725-5825MHz band, Ch. 157 = 5785MHz
5725-5825MHz band, Ch. 165 = 5825MHz

POWER SETTINGS INVESTIGATED

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	40 GHz
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SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
5.25 GHz Notch Filter	K&L Microwave	8N50-5250/X200-0/0	HFK	4/3/2006	24
5.8 GHz Notch Filter	Micro-Tronics	BRC50705	HFQ	1/12/2007	13
7.5-9.5 GHz Bandpass Filter	K&L Microwave	7ED20-8500/E2000-O/O	HFL	4/3/2006	24
High Pass Filter	K&L Microwave	1WFP01-15000/E6000-O/O	HFJ	4/3/2006	24
Low Pass Filter 0-1000 MHz	Micro-Tronics	LPM50004	LFD	12/29/2006	13
Low Pass Filter 0-425 MHz	Micro-Tronics	LPM50003	LFB	12/29/2006	13
High Pass Filter 1.2 - 18 GHz	Micro-Tronics	HPM50108	HFV	12/29/2006	13
High Pass Filter	Micro-Tronics	HPM50111	HFO	12/29/2006	13
EV01 cable B			EVE	6/8/2007	13
Pre-Amplifier	Miteq	JS4-26004000-50-5A	AON	6/8/2007	13
Pre-Amplifier	Miteq	JS4-26004000-40-8P	APV	6/8/2007	13
Antenna, Horn	EMCO	3160-08	AHK	NCR	0
EV01 Cable D			EVD	3/30/2006	15
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	3/23/2006	17
Antenna, Horn	EMCO	3160-09	AHG	NCR	0
EV01 cables g,h,i			EVF	5/10/2007	13
Pre-Amplifier	Miteq	AMF-4D-005180-24-10P	APC	5/10/2007	13
Antenna, Horn	EMCO	3160-08	AHK	NCR	0
EV01 cables g,h,j			EVB	5/10/2007	13
Antenna, Horn	EMCO	3115	AHC	8/24/2006	12
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	5/10/2007	13
EV01 cables c,g, h			EVA	12/29/2006	13
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	Peak Data	Quasi-Peak Data	Average Data
	(MHz)	(kHz)	(kHz)	(kHz)
	0.01 - 0.15	1.0	0.2	0.2
	0.15 - 30.0	10.0	9.0	9.0
	30.0 - 1000	100.0	120.0	120.0
	Above 1000	1000.0	N/A	1000.0

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

MEASUREMENT UNCERTAINTY

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

TEST DESCRIPTION

The EUT was operated in low, mid, or high transmit frequencies depending on the operational band. For each configuration, the spectrum was scanned throughout the specified range. In addition, measurements were made in the restricted bands to verify compliance. While scanning, emissions from the EUT were maximized by rotating the EUT on a turntable, adjusting the position of the EUT and EUT antenna in three orthogonal axis, and adjusting the measurement antenna height and polarization (per ANSI C63.4:2003). A preamp and high pass filter (and notch filter) were used for this test in order to provide sufficient measurement sensitivity. Per 15.407, emissions were evaluated to meet three different specifications: FCC 15.209 for emissions <1GHz, FCC 15.209 for emissions in the restricted bands of 15.205, and EIRP limits of 15.407. Substitution method per ANSI C63.4 was used for EIRP measurements.

EUT: IX-WL3945 in the IX750	Work Order: SPTE0060
Serial Number: Unknown	Date: 06/19/07
Customer: Spectrum Technology	Temperature: 22
Attendees: None	Humidity: 33%
Project: None	Barometric Pres.: 30.09
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

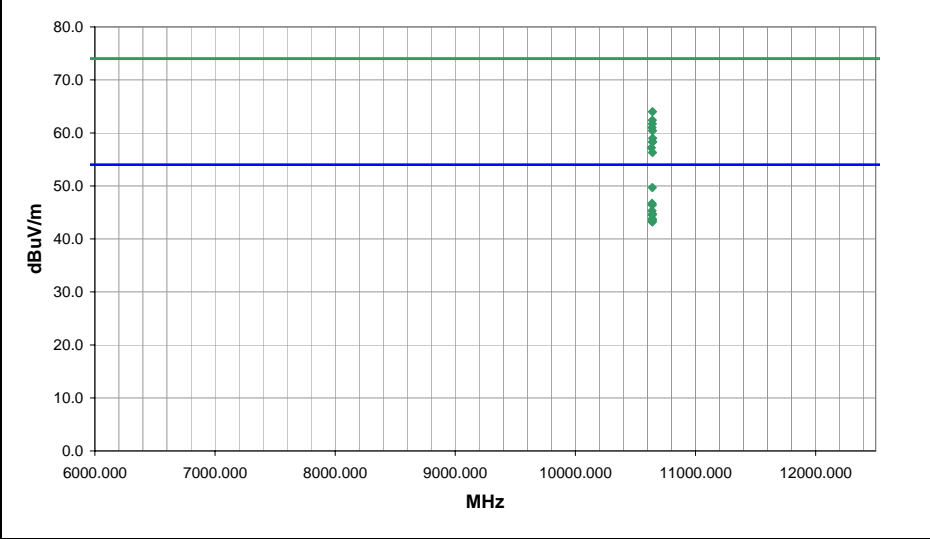
COMMENTS
Main antenna. Office dock configuration.

EUT OPERATING MODES
Transmitting 802.11(a), Channel 64

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	7
Configuration #	2
Results	Pass

Rod Peloquin
Signature



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
10640.070	33.2	16.5	286.0	1.6	3.0	0.0	H-Horn	AV	0.0	49.7	54.0	-4.3	Channel 64, 6 Mbps, EUT on side
10638.330	30.2	16.5	284.0	1.6	3.0	0.0	H-Horn	AV	0.0	46.7	54.0	-7.3	Channel 64, 36 Mbps, EUT on side
10640.100	29.9	16.5	332.0	1.1	3.0	0.0	V-Horn	AV	0.0	46.4	54.0	-7.6	Channel 64, 6 Mbps, EUT display horizontal
10638.170	28.8	16.5	336.0	1.3	3.0	0.0	V-Horn	AV	0.0	45.3	54.0	-8.7	Channel 64, 36 Mbps, EUT display horizontal
10641.530	28.2	16.5	287.0	1.6	3.0	0.0	H-Horn	AV	0.0	44.7	54.0	-9.3	Channel 64, 54 Mbps, EUT on side
10639.900	28.0	16.5	179.0	1.1	3.0	0.0	V-Horn	AV	0.0	44.5	54.0	-9.5	Channel 64, 6 Mbps, EUT on side
10641.470	47.5	16.5	286.0	1.6	3.0	0.0	H-Horn	PK	0.0	64.0	74.0	-10.0	Channel 64, 6 Mbps, EUT on side
10639.830	27.3	16.5	171.0	1.1	3.0	0.0	V-Horn	AV	0.0	43.8	54.0	-10.2	Channel 64, 6 Mbps, EUT typical orientation
10641.330	27.1	16.5	303.0	1.0	3.0	0.0	V-Horn	AV	0.0	43.6	54.0	-10.4	Channel 64, 54 Mbps, EUT display horizontal
10640.130	26.8	16.5	230.0	1.6	3.0	0.0	H-Horn	AV	0.0	43.3	54.0	-10.7	Channel 64, 6 Mbps, EUT display horizontal
10640.070	26.8	16.4	194.0	1.1	3.0	0.0	H-Horn	AV	0.0	43.2	54.0	-10.8	Channel 64, 6 Mbps, EUT typical orientation
10640.200	45.9	16.5	284.0	1.6	3.0	0.0	H-Horn	PK	0.0	62.4	74.0	-11.6	Channel 64, 36 Mbps, EUT on side
10640.800	45.2	16.5	287.0	1.6	3.0	0.0	H-Horn	PK	0.0	61.7	74.0	-12.3	Channel 64, 54 Mbps, EUT on side
10638.330	44.5	16.5	336.0	1.3	3.0	0.0	V-Horn	PK	0.0	61.0	74.0	-13.0	Channel 64, 36 Mbps, EUT display horizontal
10641.930	43.9	16.5	332.0	1.1	3.0	0.0	V-Horn	PK	0.0	60.4	74.0	-13.6	Channel 64, 6 Mbps, EUT display horizontal
10643.100	42.5	16.5	303.0	1.0	3.0	0.0	V-Horn	PK	0.0	59.0	74.0	-15.0	Channel 64, 54 Mbps, EUT display horizontal
10641.570	41.8	16.5	179.0	1.1	3.0	0.0	V-Horn	PK	0.0	58.3	74.0	-15.7	Channel 64, 6 Mbps, EUT on side
10642.580	41.8	16.5	171.0	1.1	3.0	0.0	V-Horn	PK	0.0	58.3	74.0	-15.7	Channel 64, 6 Mbps, EUT typical orientation
10632.960	40.7	16.5	194.0	1.1	3.0	0.0	H-Horn	PK	0.0	57.2	74.0	-16.8	Channel 64, 6 Mbps, EUT typical orientation
10642.200	39.8	16.5	230.0	1.6	3.0	0.0	H-Horn	PK	0.0	56.3	74.0	-17.7	Channel 64, 6 Mbps, EUT display horizontal

EUT: IX-WL3945 in the IX750	Work Order: SPTE0060
Serial Number: Unknown	Date: 06/19/07
Customer: Spectrum Technology	Temperature: 22
Attendees: None	Humidity: 33%
Project: None	Barometric Pres.: 30.09
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV01

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

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

COMMENTS
Main antenna. Office dock configuration.

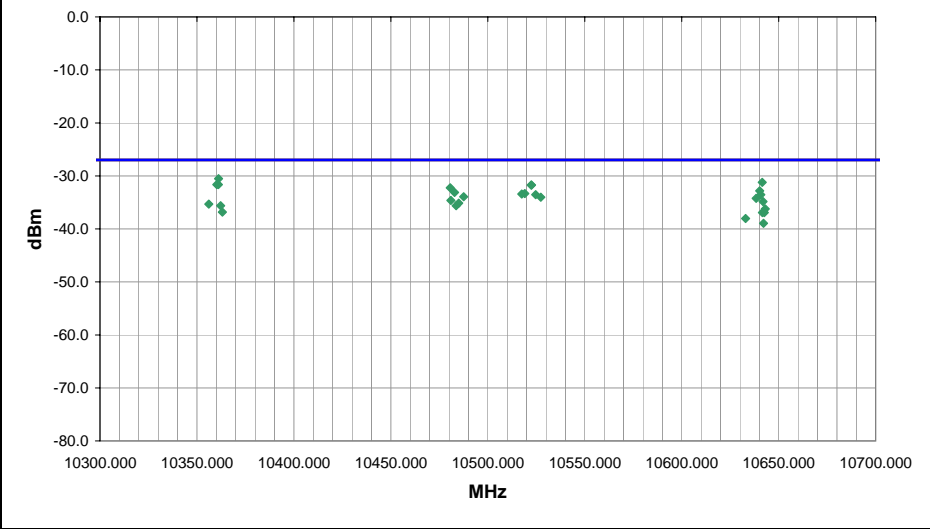
EUT OPERATING MODES
Transmitting 802.11(a), 5150-5250 MHz and 5250 - 5350 MHz band.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	8
Configuration #	2
Results	Pass

Rodney L. Pelroy
Signature



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
10361.170	271.0	2.0	V-Horn	PK	8.85E-07	-30.5	-27.0	-3.5	Channel 36, 6 Mbps, EUT display horizontal
10641.470	286.0	1.6	H-Horn	PK	7.54E-07	-31.2	-27.0	-4.2	Channel 64, 6 Mbps, EUT on side
10360.230	271.0	2.0	V-Horn	PK	6.87E-07	-31.6	-27.0	-4.6	Channel 36, 36 Mbps, EUT display horizontal
10361.070	271.0	2.0	V-Horn	PK	6.87E-07	-31.6	-27.0	-4.6	Channel 36, 54 Mbps, EUT display horizontal
10522.370	281.0	1.2	H-Horn	PK	6.72E-07	-31.7	-27.0	-4.7	Channel 52, 6 Mbps, EUT on side
10522.530	277.0	1.1	V-Horn	PK	6.72E-07	-31.7	-27.0	-4.7	Channel 52, 6 Mbps, EUT display horizontal
10480.570	349.0	1.4	V-Horn	PK	5.99E-07	-32.2	-27.0	-5.2	Channel 48, 6 Mbps, EUT display horizontal
10640.200	284.0	1.6	H-Horn	PK	5.21E-07	-32.8	-27.0	-5.8	Channel 64, 36 Mbps, EUT on side
10482.870	349.0	1.4	V-Horn	PK	4.87E-07	-33.1	-27.0	-6.1	Channel 48, 36 Mbps, EUT display horizontal
10519.100	280.0	1.2	H-Horn	PK	4.65E-07	-33.3	-27.0	-6.3	Channel 52, 36 Mbps, EUT on side
10517.470	278.0	1.1	V-Horn	PK	4.54E-07	-33.4	-27.0	-6.4	Channel 52, 36 Mbps, EUT display horizontal
10640.800	287.0	1.6	H-Horn	PK	4.44E-07	-33.5	-27.0	-6.5	Channel 64, 54 Mbps, EUT on side
10524.630	280.0	1.2	H-Horn	PK	4.44E-07	-33.5	-27.0	-6.5	Channel 52, 54 Mbps, EUT on side
10487.500	353.0	1.4	V-Horn	PK	4.05E-07	-33.9	-27.0	-6.9	Channel 48, 54 Mbps, EUT display horizontal
10527.300	278.0	1.1	V-Horn	PK	3.95E-07	-34.0	-27.0	-7.0	Channel 52, 54 Mbps, EUT display horizontal
10638.330	336.0	1.3	V-Horn	PK	3.78E-07	-34.2	-27.0	-7.2	Channel 64, 36 Mbps, EUT display horizontal
10480.930	287.0	1.1	H-Horn	PK	3.44E-07	-34.6	-27.0	-7.6	Channel 48, 6 Mbps, EUT on side
10641.930	332.0	1.1	V-Horn	PK	3.29E-07	-34.8	-27.0	-7.8	Channel 64, 6 Mbps, EUT display horizontal
10484.970	280.0	1.2	H-Horn	PK	3.07E-07	-35.1	-27.0	-8.1	Channel 48, 54 Mbps, EUT on side
10356.130	263.0	1.6	H-Horn	PK	2.93E-07	-35.3	-27.0	-8.3	Channel 36, 6 Mbps, EUT on side

EUT: IX-WL3945 in the IX750	Work Order: SPTE0060
Serial Number: Unknown	Date: 06/19/07
Customer: Spectrum Technology	Temperature: 22
Attendees: None	Humidity: 33%
Project: None	Barometric Pres.: 30.09
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

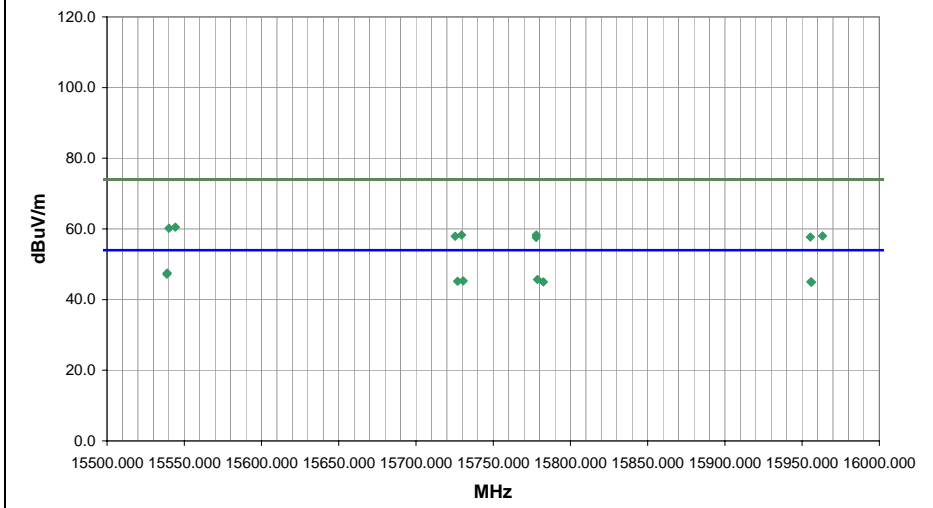
COMMENTS
Main antenna. Office Dock configuration.

EUT OPERATING MODES
Transmitting 802.11(a), 5150-5250 MHz and 5250 - 5350 MHz band.

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	13
Configuration #	2
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
15538.900	25.3	22.2	263.0	1.3	3.0	0.0	H-Horn	AV	0.0	47.5	54.0	-6.5	Channel 36, 6 Mbps, EUT on side
15538.700	25.1	22.1	349.0	1.0	3.0	0.0	V-Horn	AV	0.0	47.2	54.0	-6.8	Channel 36, 6 Mbps, EUT display horizontal
15778.630	23.6	22.1	260.0	1.3	3.0	0.0	H-Horn	AV	0.0	45.7	54.0	-8.3	Channel 52, 6 Mbps, EUT on side
15730.530	23.2	22.1	97.0	1.2	3.0	0.0	V-Horn	AV	0.0	45.3	54.0	-8.7	Channel 48, 6 Mbps, EUT display horizontal
15727.000	23.1	22.1	266.0	1.0	3.0	0.0	H-Horn	AV	0.0	45.2	54.0	-8.8	Channel 48, 6 Mbps, EUT on side
15782.480	22.9	22.1	90.0	1.4	3.0	0.0	V-Horn	AV	0.0	45.0	54.0	-9.0	Channel 52, 6 Mbps, EUT screen horizontal
15955.620	22.9	22.1	111.0	3.6	3.0	0.0	V-Horn	AV	0.0	45.0	54.0	-9.0	Channel 64, 6 Mbps, EUT screen horizontal
15956.100	22.9	22.0	353.0	1.0	3.0	0.0	H-Horn	AV	0.0	44.9	54.0	-9.1	Channel 64, 6 Mbps, EUT on side
15544.270	38.3	22.2	349.0	1.0	3.0	0.0	V-Horn	PK	0.0	60.5	74.0	-13.5	Channel 36, 6 Mbps, EUT display horizontal
15540.100	38.0	22.2	263.0	1.3	3.0	0.0	H-Horn	PK	0.0	60.2	74.0	-13.8	Channel 36, 6 Mbps, EUT on side
15729.570	36.2	22.1	97.0	1.2	3.0	0.0	V-Horn	PK	0.0	58.3	74.0	-15.7	Channel 48, 6 Mbps, EUT display horizontal
15777.870	36.2	22.1	90.0	1.4	3.0	0.0	V-Horn	PK	0.0	58.3	74.0	-15.7	Channel 52, 6 Mbps, EUT screen horizontal
15963.200	36.0	22.0	353.0	1.0	3.0	0.0	H-Horn	PK	0.0	58.0	74.0	-16.0	Channel 64, 6 Mbps, EUT on side
15725.370	35.8	22.1	266.0	1.0	3.0	0.0	H-Horn	PK	0.0	57.9	74.0	-16.1	Channel 48, 6 Mbps, EUT on side
15955.370	35.7	22.0	111.0	3.6	3.0	0.0	V-Horn	PK	0.0	57.7	74.0	-16.3	Channel 64, 6 Mbps, EUT screen horizontal
15777.800	35.5	22.1	260.0	1.3	3.0	0.0	H-Horn	PK	0.0	57.6	74.0	-16.4	Channel 52, 6 Mbps, EUT on side

EUT: IX-WL3945 in the IX750	Work Order: SPTE0060
Serial Number: Unknown	Date: 06/19/07
Customer: Spectrum Technology	Temperature: 22
Attendees: None	Humidity: 33%
Project: None	Barometric Pres.: 30.09
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

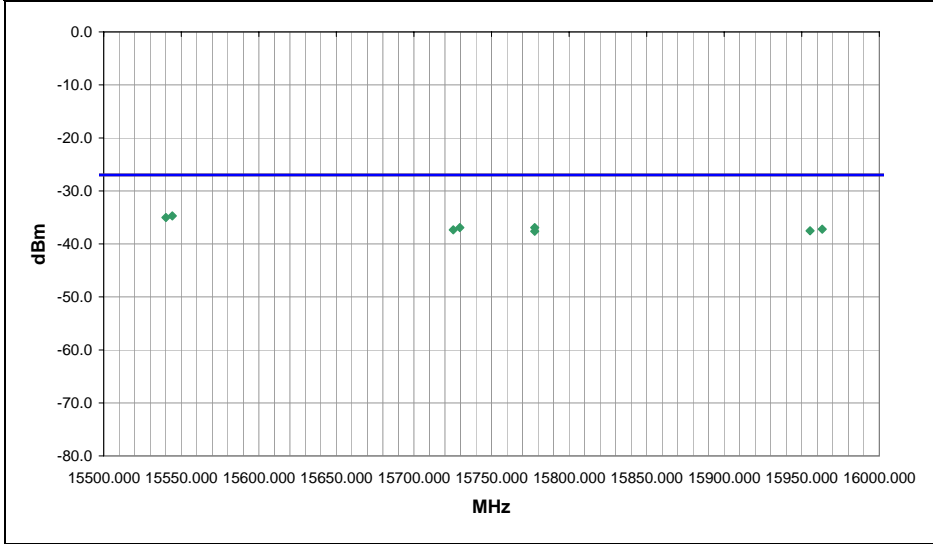
COMMENTS
Main antenna. Office Dock configuration.

EUT OPERATING MODES
Transmitting 802.11(a), 5150-5250 MHz and 5250 - 5350 MHz band.

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	13
Configuration #	2
Results	Pass

Signature *Holly Ashkannejhad*



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
15544.270	349.0	1.0	V-Horn	PK	3.37E-07	-34.7	-27.0	-7.7	Channel 36, 6 Mbps, EUT display horizontal
15540.100	263.0	1.3	H-Horn	PK	3.14E-07	-35.0	-27.0	-8.0	Channel 36, 6 Mbps, EUT on side
15729.570	97.0	1.2	V-Horn	PK	2.03E-07	-36.9	-27.0	-9.9	Channel 48, 6 Mbps, EUT display horizontal
15777.870	90.0	1.4	V-Horn	PK	2.03E-07	-36.9	-27.0	-9.9	Channel 52, 6 Mbps, EUT screen horizontal
15963.200	353.0	1.0	H-Horn	PK	1.89E-07	-37.2	-27.0	-10.2	Channel 64, 6 Mbps, EUT on side
15725.370	266.0	1.0	H-Horn	PK	1.85E-07	-37.3	-27.0	-10.3	Channel 48, 6 Mbps, EUT on side
15955.370	111.0	3.6	V-Horn	PK	1.77E-07	-37.5	-27.0	-10.5	Channel 64, 6 Mbps, EUT screen horizontal
15777.800	260.0	1.3	H-Horn	PK	1.73E-07	-37.6	-27.0	-10.6	Channel 52, 6 Mbps, EUT on side

EUT: IX-WL3945 in the IX750	Work Order: SPT0060
Serial Number: Unknown	Date: 06/20/07
Customer: Spectrum Technology, Inc.	Temperature: 24°C
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 30.17
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV01

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

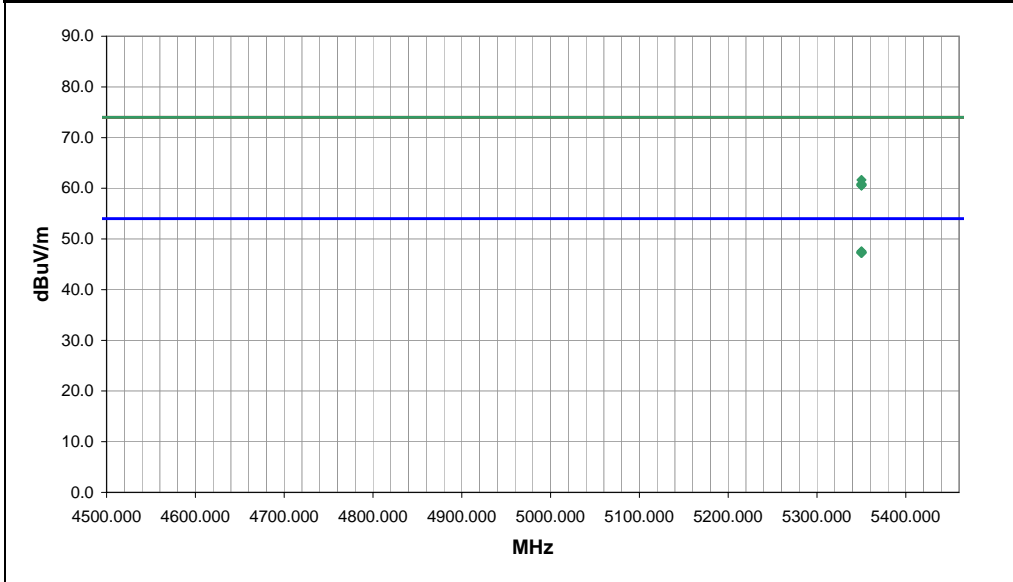
TEST PARAMETERS
Antenna Height(s) (m) 1 - 2 Test Distance (m) 1

COMMENTS
Main antenna, Office dock configuration

EUT OPERATING MODES
Transmitting 802.11(a), Channel 64

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	22	 Signature
Configuration #	2	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
5350.000	20.2	36.9	324.0	1.1	1.0	0.0	H-Horn	AV	-9.5	47.6	54.0	-6.4	6 Mbps, EUT display horizontal
5350.000	20.1	36.9	237.0	1.1	1.0	0.0	V-Horn	AV	-9.5	47.5	54.0	-6.5	6 Mbps, EUT on side
5350.000	20.0	36.9	324.0	1.1	1.0	0.0	H-Horn	AV	-9.5	47.4	54.0	-6.6	36 Mbps, EUT display horizontal
5350.000	19.9	36.9	237.0	1.1	1.0	0.0	V-Horn	AV	-9.5	47.3	54.0	-6.7	36 Mbps, EUT on side
5350.000	19.9	36.9	237.0	1.1	1.0	0.0	V-Horn	AV	-9.5	47.3	54.0	-6.7	54 Mbps, EUT on side
5350.000	19.9	36.9	324.0	1.1	1.0	0.0	H-Horn	AV	-9.5	47.3	54.0	-6.7	54 Mbps, EUT display horizontal
5350.000	34.3	36.9	237.0	1.1	1.0	0.0	V-Horn	PK	-9.5	61.7	74.0	-12.3	6 Mbps, EUT on side
5350.000	33.5	36.9	237.0	1.1	1.0	0.0	V-Horn	PK	-9.5	60.9	74.0	-13.1	6 Mbps, EUT on side
5350.000	33.4	36.9	237.0	1.1	1.0	0.0	V-Horn	PK	-9.5	60.8	74.0	-13.2	54 Mbps, EUT on side
5350.000	33.4	36.9	324.0	1.1	1.0	0.0	H-Horn	PK	-9.5	60.8	74.0	-13.2	6 Mbps, EUT display horizontal
5350.000	33.2	36.9	324.0	1.1	1.0	0.0	H-Horn	PK	-9.5	60.6	74.0	-13.4	54 Mbps, EUT display horizontal
5350.000	33.2	36.9	324.0	1.1	1.0	0.0	H-Horn	PK	-9.5	60.6	74.0	-13.4	36 Mbps, EUT display horizontal

SPURIOUS RADIATED EMISSIONS DATA SHEET

EMC	EUT: IX-WL3945 in the IX750	Work Order: SPT0060
Serial Number: Unknown		Date: 06/20/07
Customer: Spectrum Technology, Inc.		Temperature: 24°C
Attendees: None		Humidity: 32%
Project: None		Barometric Pres.: 30.17
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 - 2 Test Distance (m) 1

COMMENTS
Main antenna, Office dock configuration

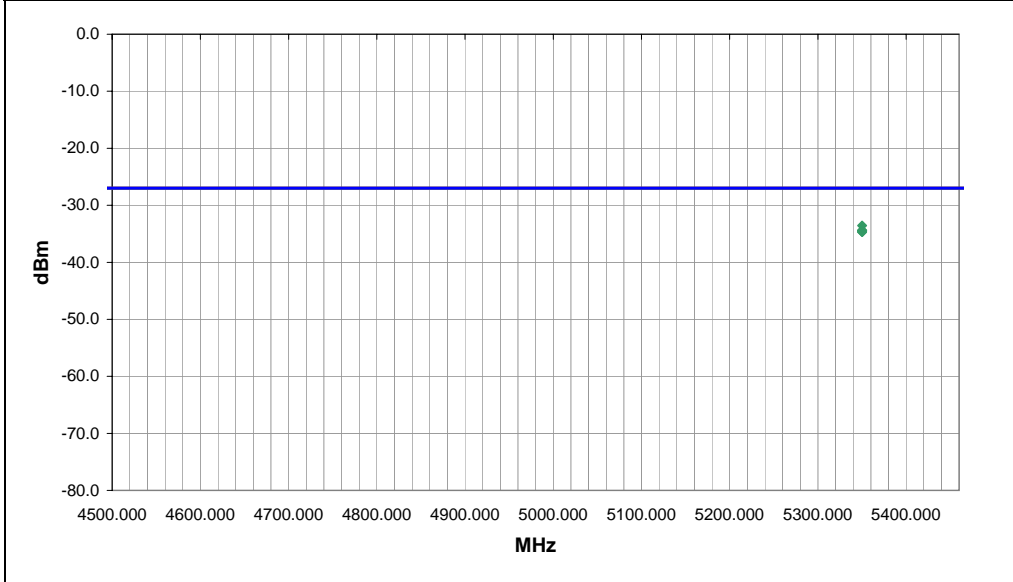
EUT OPERATING MODES

Transmitting 802.11(a), Channel 64

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	22	 Signature
Configuration #	2	
Results	Pass	



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
5350.000	237.0	1.1	V-Horn	PK	4.39E-07	-33.6	-27.0	-6.6	6 Mbps, EUT on side
5350.000	237.0	1.1	V-Horn	PK	3.65E-07	-34.4	-27.0	-7.4	6 Mbps, EUT on side
5350.000	237.0	1.1	V-Horn	PK	3.57E-07	-34.5	-27.0	-7.5	54 Mbps, EUT on side
5350.000	324.0	1.1	H-Horn	PK	3.57E-07	-34.5	-27.0	-7.5	6 Mbps, EUT display horizontal
5350.000	324.0	1.1	H-Horn	PK	3.41E-07	-34.7	-27.0	-7.7	54 Mbps, EUT display horizontal
5350.000	324.0	1.1	H-Horn	PK	3.41E-07	-34.7	-27.0	-7.7	36 Mbps, EUT display horizontal

EUT: IX-WL3945 in the IX750	Work Order: SPT0060
Serial Number: Unknown	Date: 06/20/07
Customer: Spectrum Technology, Inc.	Temperature: 24°C
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 30.17
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV01

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

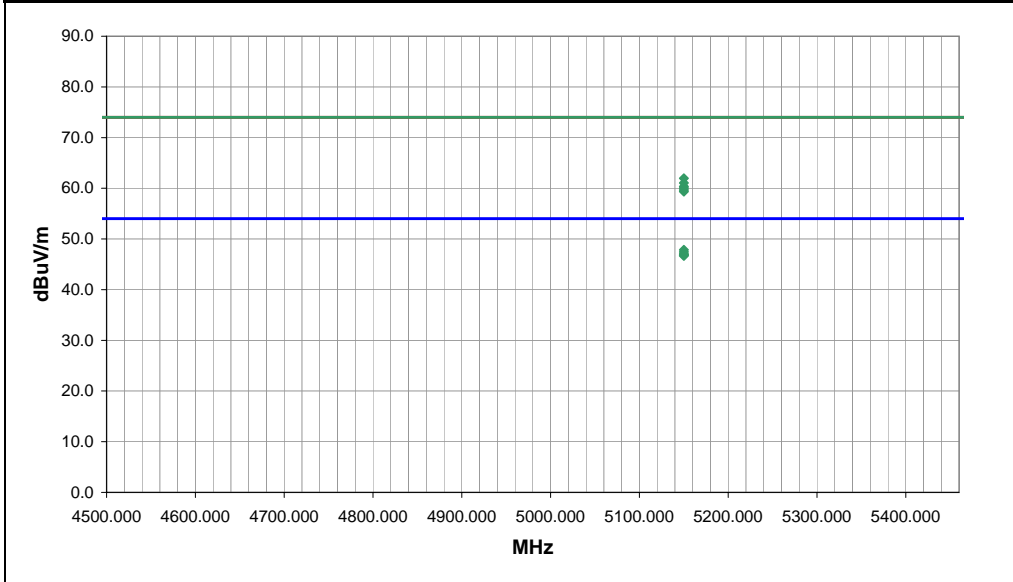
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 2	Test Distance (m)	1

COMMENTS
Main antenna, Office dock configuration.

EUT OPERATING MODES
Transmitting 802.11(a), Channel 36

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	24	 Signature
Configuration #	2	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
5150.000	21.1	36.3	304.0	1.0	1.0	0.0	H-Horn	AV	-9.5	47.9	54.0	-6.1	6 Mbps, EUT display horizontal
5150.000	20.7	36.3	304.0	1.0	1.0	0.0	H-Horn	AV	-9.5	47.5	54.0	-6.5	36 Mbps, EUT display horizontal
5150.000	20.3	36.3	209.0	1.1	1.0	0.0	V-Horn	AV	-9.5	47.1	54.0	-6.9	6 Mbps, EUT on side
5150.000	20.1	36.3	209.0	1.1	1.0	0.0	V-Horn	AV	-9.5	46.9	54.0	-7.1	36 Mbps, EUT on side
5150.000	20.1	36.3	304.0	1.0	1.0	0.0	H-Horn	AV	-9.5	46.9	54.0	-7.1	54 Mbps, EUT display horizontal
5150.000	19.9	36.3	209.0	1.1	1.0	0.0	V-Horn	AV	-9.5	46.7	54.0	-7.3	36 Mbps, EUT on side
5150.000	35.2	36.3	304.0	1.0	1.0	0.0	H-Horn	PK	-9.5	62.0	74.0	-12.0	6 Mbps, EUT display horizontal
5150.000	34.3	36.3	304.0	1.0	1.0	0.0	H-Horn	PK	-9.5	61.1	74.0	-12.9	36 Mbps, EUT display horizontal
5150.000	33.6	36.3	209.0	1.1	1.0	0.0	V-Horn	PK	-9.5	60.4	74.0	-13.6	6 Mbps, EUT on side
5150.000	33.3	36.3	209.0	1.1	1.0	0.0	V-Horn	PK	-9.5	60.1	74.0	-13.9	36 Mbps, EUT on side
5150.000	32.9	36.3	304.0	1.0	1.0	0.0	H-Horn	PK	-9.5	59.7	74.0	-14.3	54 Mbps, EUT display horizontal
5150.000	32.6	36.3	209.0	1.1	1.0	0.0	V-Horn	PK	-9.5	59.4	74.0	-14.6	36 Mbps, EUT on side

EUT: IX-WL3945 in the IX750	Work Order: SPT0060
Serial Number: Unknown	Date: 06/20/07
Customer: Spectrum Technology, Inc.	Temperature: 24°C
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 30.17
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

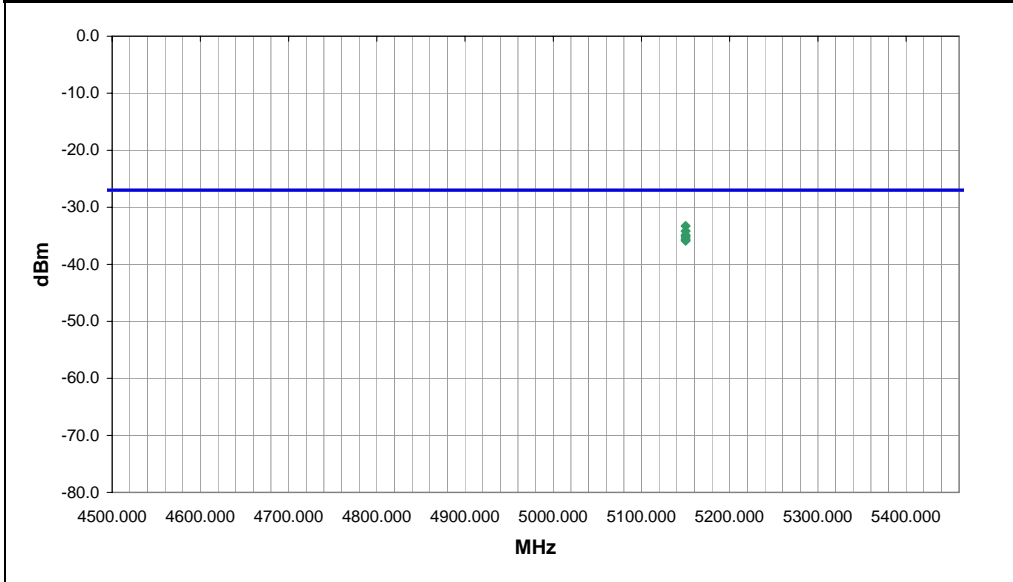
TEST PARAMETERS
Antenna Height(s) (m) 1 - 2 Test Distance (m) 1

COMMENTS
Main antenna, Office dock configuration.

EUT OPERATING MODES
Transmitting 802.11(a), Channel 36

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	24	 Signature
Configuration #	2	
Results	Pass	



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
5150.000	304.0	1.0	H-Horn	PK	4.71E-07	-33.3	-27.0	-6.3	6 Mbps, EUT display horizontal
5150.000	304.0	1.0	H-Horn	PK	3.83E-07	-34.2	-27.0	-7.2	36 Mbps, EUT display horizontal
5150.000	209.0	1.1	V-Horn	PK	3.26E-07	-34.9	-27.0	-7.9	6 Mbps, EUT on side
5150.000	209.0	1.1	V-Horn	PK	3.04E-07	-35.2	-27.0	-8.2	36 Mbps, EUT on side
5150.000	304.0	1.0	H-Horn	PK	2.77E-07	-35.6	-27.0	-8.6	54 Mbps, EUT display horizontal
5150.000	209.0	1.1	V-Horn	PK	2.59E-07	-35.9	-27.0	-8.9	36 Mbps, EUT on side

SPURIOUS RADIATED EMISSIONS DATA SHEET

EUT: IX-WL3945 in the IX750	Work Order: SPT0060
Serial Number: Unknown	Date: 06/20/07
Customer: Spectrum Technology, Inc.	Temperature: 24°C
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 30.17
Tested by: Rod Peloquin	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 - 2	Test Distance (m) 1

COMMENTS
Main antenna, Office dock configuration.

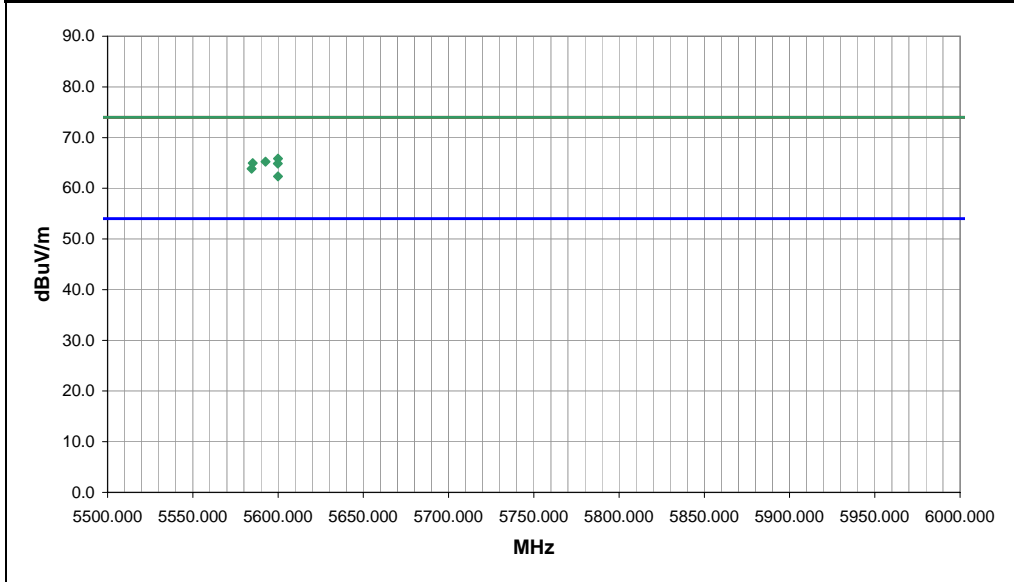
EUT OPERATING MODES

Transmitting 802.11(a), Channel 165

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	26	 Signature
Configuration #	2	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
5599.900	38.4	37.0	255.0	1.0	1.0	0.0	V-Horn	PK	-9.5	65.9	74.0	-8.1	36 Mbps, EUT on side
5592.600	37.8	37.0	255.0	1.0	1.0	0.0	H-Horn	PK	-9.5	65.3	74.0	-8.7	36 Mbps, EUT display horizontal
5585.100	37.5	37.0	255.0	1.0	1.0	0.0	H-Horn	PK	-9.5	65.0	74.0	-9.0	6 Mbps, EUT display horizontal
5599.877	37.4	37.0	255.0	1.0	1.0	0.0	V-Horn	PK	-9.5	64.9	74.0	-9.1	6 Mbps, EUT on side
5584.500	36.4	37.0	255.0	1.0	1.0	0.0	H-Horn	PK	-9.5	63.9	74.0	-10.1	54 Mbps, EUT display horizontal
5599.925	34.9	37.0	255.0	1.0	1.0	0.0	V-Horn	PK	-9.5	62.4	74.0	-11.6	54 Mbps, EUT on side

EUT: IX-WL3945 in the IX750	Work Order: SPTE0060
Serial Number: Unknown	Date: 06/20/07
Customer: Spectrum Technology, Inc.	Temperature: 24°C
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 30.17
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

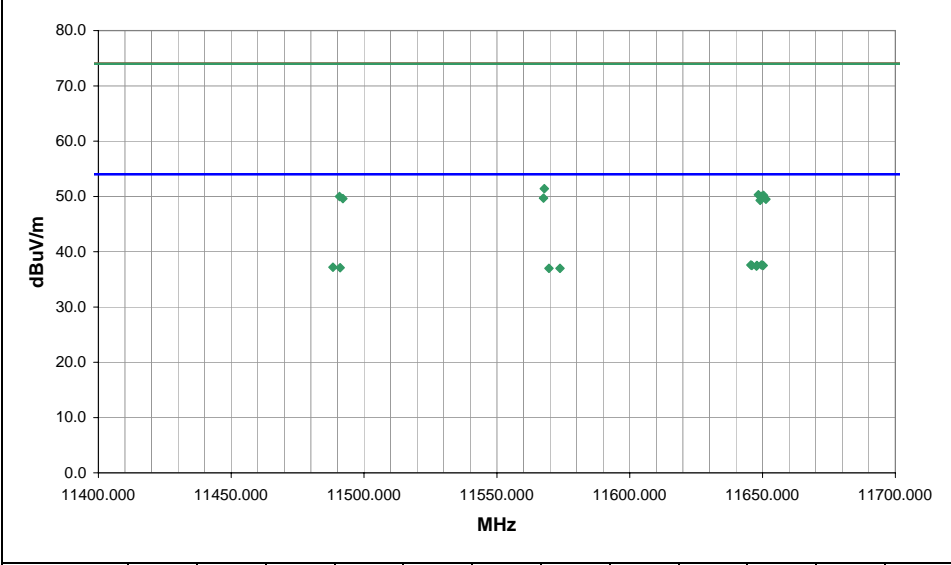
COMMENTS
Main antenna, Office dock configuration.

EUT OPERATING MODES
Transmitting 802.11(a), see comments for data rate and channel.

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	28
Configuration #	2
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
11645.630	21.5	16.1	92.0	1.0	3.0	0.0	V-Horn	AV	0.0	37.6	54.0	-16.4	Ch. 165, 36Mbps, EUT screen horizontal
11649.600	21.5	16.1	347.0	3.2	3.0	0.0	V-Horn	AV	0.0	37.6	54.0	-16.4	Ch. 165, 6Mbps, EUT screen horizontal
11646.000	21.5	16.0	39.0	3.7	3.0	0.0	V-Horn	AV	0.0	37.5	54.0	-16.5	Ch. 165, 54Mbps, EUT screen horizontal
11647.920	21.4	16.1	344.0	1.0	3.0	0.0	H-Horn	AV	0.0	37.5	54.0	-16.5	Ch. 165, 36Mbps, EUT on side
11650.230	21.4	16.1	360.0	1.5	3.0	0.0	H-Horn	AV	0.0	37.5	54.0	-16.5	Ch. 165, 6Mbps, EUT on side
11647.730	21.4	16.0	244.0	1.0	3.0	0.0	H-Horn	AV	0.0	37.4	54.0	-16.6	Ch. 165, 54Mbps, EUT on side
11488.280	21.1	16.1	93.0	3.3	3.0	0.0	H-Horn	AV	0.0	37.2	54.0	-16.8	Ch. 149, 6Mbps, EUT on side
11491.010	21.0	16.1	137.0	1.0	3.0	0.0	V-Horn	AV	0.0	37.1	54.0	-16.9	Ch. 149, 6Mbps, EUT screen horizontal
11569.580	21.0	16.0	151.0	1.0	3.0	0.0	V-Horn	AV	0.0	37.0	54.0	-17.0	Ch. 157, 6Mbps, EUT screen horizontal
11573.770	21.0	16.0	64.0	1.0	3.0	0.0	H-Horn	AV	0.0	37.0	54.0	-17.0	Ch. 157, 6Mbps, EUT on side
11567.870	35.4	16.0	64.0	1.0	3.0	0.0	H-Horn	PK	0.0	51.4	74.0	-22.6	Ch. 157, 6Mbps, EUT on side
11648.470	34.3	16.0	360.0	1.5	3.0	0.0	H-Horn	PK	0.0	50.3	74.0	-23.7	Ch. 165, 6Mbps, EUT on side
11650.360	34.2	16.0	39.0	3.7	3.0	0.0	V-Horn	PK	0.0	50.2	74.0	-23.8	Ch. 165, 54Mbps, EUT screen horizontal
11490.780	33.9	16.1	93.0	3.3	3.0	0.0	H-Horn	PK	0.0	50.0	74.0	-24.0	Ch. 149, 6Mbps, EUT on side
11649.580	34.0	16.0	92.0	1.0	3.0	0.0	V-Horn	PK	0.0	50.0	74.0	-24.0	Ch. 165, 36Mbps, EUT screen horizontal
11649.610	34.0	16.0	347.0	3.2	3.0	0.0	V-Horn	PK	0.0	50.0	74.0	-24.0	Ch. 165, 6Mbps, EUT screen horizontal
11567.540	33.7	16.0	151.0	1.0	3.0	0.0	V-Horn	PK	0.0	49.7	74.0	-24.3	Ch. 157, 6Mbps, EUT screen horizontal
11492.020	33.5	16.1	137.0	1.0	3.0	0.0	V-Horn	PK	0.0	49.6	74.0	-24.4	Ch. 149, 6Mbps, EUT screen horizontal
11651.280	33.5	16.0	244.0	1.0	3.0	0.0	H-Horn	PK	0.0	49.5	74.0	-24.5	Ch. 165, 54Mbps, EUT on side
11649.100	33.3	16.0	344.0	1.0	3.0	0.0	H-Horn	PK	0.0	49.3	74.0	-24.7	Ch. 165, 36Mbps, EUT on side

EUT: IX-WL3945 in the IX750	Work Order: SPTE0060
Serial Number: Unknown	Date: 06/19/07
Customer: Spectrum Technology	Temperature: 22
Attendees: None	Humidity: 33%
Project: None	Barometric Pres.: 30.09
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

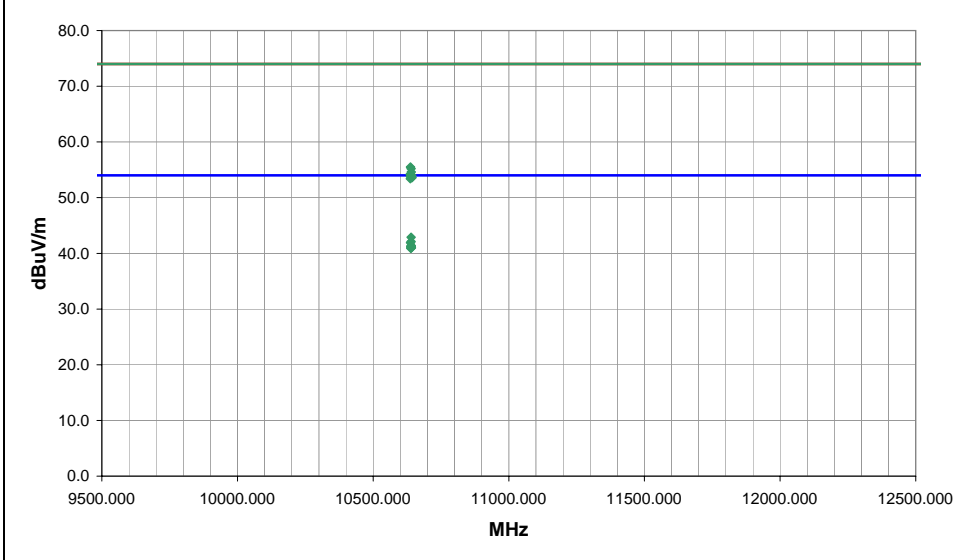
COMMENTS
Office Dock configuration, Aux antenna.

EUT OPERATING MODES
Transmitting 802.11(a), Ch. 64

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	10
Configuration #	2
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
10640.120	26.4	16.5	288.0	1.1	3.0	0.0	H-Horn	AV	0.0	42.9	54.0	-11.1	Ch. 64, 6Mbps, EUT on side
10639.830	25.6	16.5	337.0	1.1	3.0	0.0	V-Horn	AV	0.0	42.1	54.0	-11.9	Ch. 64, 36Mbps, EUT on side
10637.830	25.4	16.5	313.0	1.7	3.0	0.0	V-Horn	AV	0.0	41.9	54.0	-12.1	Ch. 64, 36Mbps, EUT on side
10639.950	24.9	16.5	227.0	1.7	3.0	0.0	V-Horn	AV	0.0	41.4	54.0	-12.6	Ch. 64, 6Mbps, EUT screen horizontal
10640.270	24.9	16.4	311.0	1.0	3.0	0.0	H-Horn	AV	0.0	41.3	54.0	-12.7	Ch. 64, 6Mbps, EUT screen horizontal
10638.730	24.7	16.5	180.0	1.7	3.0	0.0	V-Horn	AV	0.0	41.2	54.0	-12.8	Ch. 64, 54Mbps, EUT on side
10640.050	24.7	16.5	290.0	1.7	3.0	0.0	V-Horn	AV	0.0	41.2	54.0	-12.8	Ch. 64, 6Mbps, EUT typical position
10639.300	24.6	16.4	210.0	1.0	3.0	0.0	H-Horn	AV	0.0	41.0	54.0	-13.0	Ch. 64, 6Mbps, EUT typical position
10641.030	24.5	16.5	157.0	3.6	3.0	0.0	H-Horn	AV	0.0	41.0	54.0	-13.0	Ch. 64, 54Mbps, EUT on side
10638.880	24.5	16.4	228.0	3.6	3.0	0.0	H-Horn	AV	0.0	40.9	54.0	-13.1	Ch. 64, 36Mbps, EUT on side
10637.780	39.0	16.5	288.0	1.1	3.0	0.0	H-Horn	PK	0.0	55.5	74.0	-18.5	Ch. 64, 6Mbps, EUT on side
10639.780	38.7	16.5	313.0	1.7	3.0	0.0	V-Horn	PK	0.0	55.2	74.0	-18.8	Ch. 64, 36Mbps, EUT on side
10640.480	38.1	16.5	337.0	1.1	3.0	0.0	V-Horn	PK	0.0	54.6	74.0	-19.4	Ch. 64, 6Mbps, EUT on side
10636.430	37.7	16.5	311.0	1.0	3.0	0.0	H-Horn	PK	0.0	54.2	74.0	-19.8	Ch. 64, 6Mbps, EUT screen horizontal
10642.030	37.5	16.5	180.0	1.7	3.0	0.0	V-Horn	PK	0.0	54.0	74.0	-20.0	Ch. 64, 54Mbps, EUT on side
10638.800	37.4	16.5	290.0	1.7	3.0	0.0	V-Horn	PK	0.0	53.9	74.0	-20.1	Ch. 64, 6Mbps, EUT typical position
10637.130	37.3	16.5	228.0	3.6	3.0	0.0	H-Horn	PK	0.0	53.8	74.0	-20.2	Ch. 64, 36Mbps, EUT on side
10639.430	37.3	16.5	227.0	1.7	3.0	0.0	V-Horn	PK	0.0	53.8	74.0	-20.2	Ch. 64, 6Mbps, EUT screen horizontal
10643.750	37.1	16.5	157.0	3.6	3.0	0.0	H-Horn	PK	0.0	53.6	74.0	-20.4	Ch. 64, 54Mbps, EUT on side
10637.080	36.9	16.5	210.0	1.0	3.0	0.0	H-Horn	PK	0.0	53.4	74.0	-20.6	Ch. 64, 6Mbps, EUT typical position

EUT: IX-WL3945 in the IX750	Work Order: SPTE0060
Serial Number: Unknown	Date: 06/19/07
Customer: Spectrum Technology	Temperature: 22
Attendees: None	Humidity: 33%
Project: None	Barometric Pres.: 30.09
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

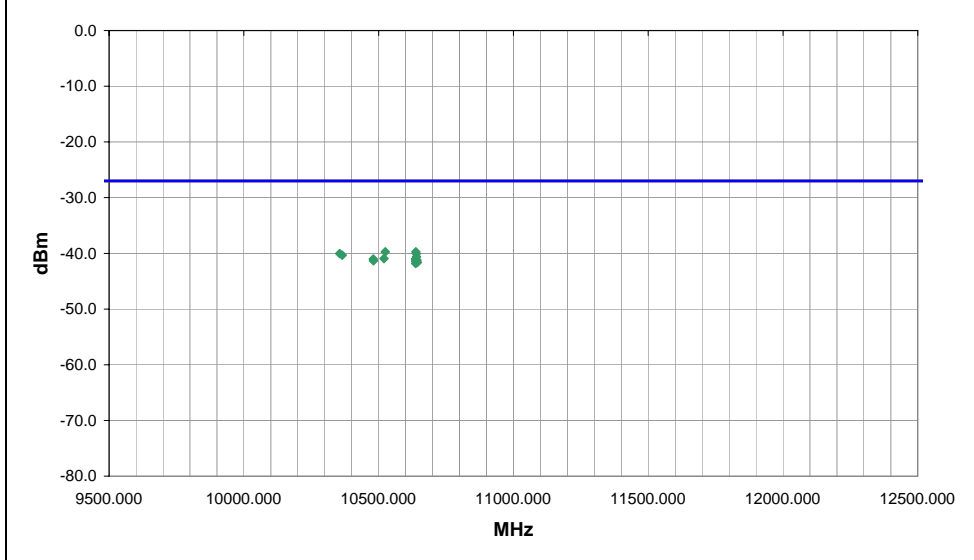
TEST PARAMETERS	
Antenna Height(s) (m) 1 - 4	Test Distance (m) 3

COMMENTS
Aux antenna. Office dock configuration.

EUT OPERATING MODES
Transmitting 802.11(a), 5150-5250 MHz and 5250 - 5350 MHz bands.

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	12	Signature <i>Holly Ashkannejhad</i>
Configuration #	2	
Results	Pass	



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
10637.780	288.0	1.1	H-Horn	PK	1.06E-07	-39.7	-27.0	-12.7	Ch. 64, 6Mbps, EUT on side
10524.650	327.0	1.1	H-Horn	PK	1.06E-07	-39.7	-27.0	-12.7	Ch. 52, 6Mbps, EUT on side
10639.780	313.0	1.7	V-Horn	PK	9.93E-08	-40.0	-27.0	-13.0	Ch. 64, 36Mbps, EUT on side
10355.400	227.0	1.9	V-Horn	PK	9.93E-08	-40.0	-27.0	-13.0	Ch. 36, 6Mbps, EUT on side
10364.870	204.0	1.7	H-Horn	PK	9.27E-08	-40.3	-27.0	-13.3	Ch. 36, 6Mbps, EUT on side
10640.480	337.0	1.1	V-Horn	PK	8.65E-08	-40.6	-27.0	-13.6	Ch. 64, 6Mbps, EUT on side
10519.680	-1.0	1.6	V-Horn	PK	8.07E-08	-40.9	-27.0	-13.9	Ch. 52, 6Mbps, EUT on side
10636.430	311.0	1.0	H-Horn	PK	7.89E-08	-41.0	-27.0	-14.0	Ch. 64, 6Mbps, EUT screen horizontal
10479.900	304.0	1.2	H-Horn	PK	7.89E-08	-41.0	-27.0	-14.0	Ch. 48, 6Mbps, EUT on side
10642.030	180.0	1.7	V-Horn	PK	7.54E-08	-41.2	-27.0	-14.2	Ch. 64, 54Mbps, EUT on side
10638.800	290.0	1.7	V-Horn	PK	7.36E-08	-41.3	-27.0	-14.3	Ch. 64, 6Mbps, EUT typical position
10480.720	150.0	1.0	V-Horn	PK	7.36E-08	-41.3	-27.0	-14.3	Ch. 48, 6Mbps, EUT on side
10637.130	228.0	3.6	H-Horn	PK	7.20E-08	-41.4	-27.0	-14.4	Ch. 64, 36Mbps, EUT on side
10639.430	227.0	1.7	V-Horn	PK	7.20E-08	-41.4	-27.0	-14.4	Ch. 64, 6Mbps, EUT screen horizontal
10643.750	157.0	3.6	H-Horn	PK	6.87E-08	-41.6	-27.0	-14.6	Ch. 64, 54Mbps, EUT on side
10637.080	210.0	1.0	H-Horn	PK	6.56E-08	-41.8	-27.0	-14.8	Ch. 64, 6Mbps, EUT typical position

EUT: IX-WL3945 in the IX750	Work Order: SPTE0060
Serial Number: Unknown	Date: 06/20/07
Customer: Spectrum Technology	Temperature: 22
Attendees: None	Humidity: 33%
Project: None	Barometric Pres.: 30.09
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV01

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

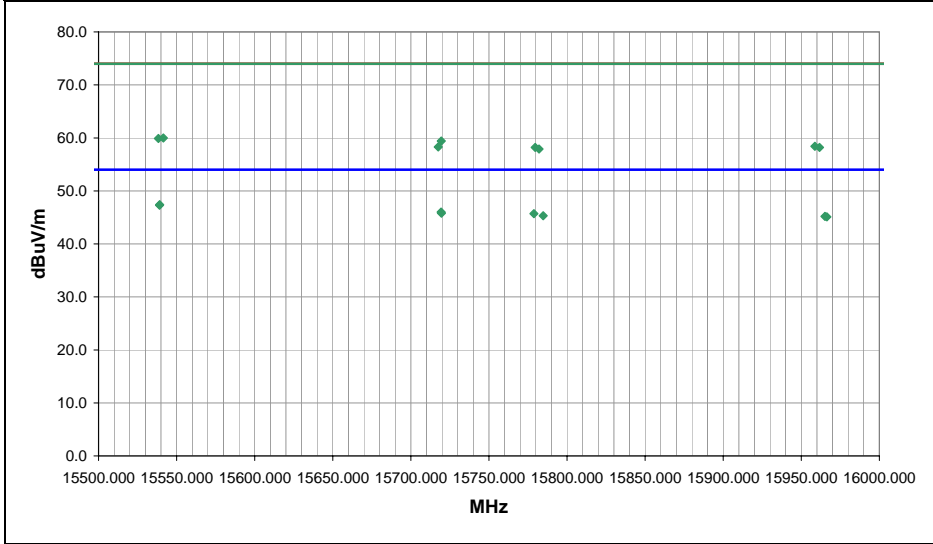
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
Aux antenna. Office dock configuration

EUT OPERATING MODES
Transmitting 802.11(a), 5150-5250 MHz and 5250-5350 MHz band

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	21	 Signature
Configuration #	2	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
15539.150	25.2	22.2	263.0	1.3	3.0	0.0	H-Horn	AV	0.0	47.4	54.0	-6.6	Channel 36, 6 Mbps, EUT on side
15539.080	25.1	22.2	28.0	1.0	3.0	0.0	V-Horn	AV	0.0	47.3	54.0	-6.7	Channel 36, 6 Mbps, EUT display horizontal
15719.320	23.9	22.1	344.0	1.0	3.0	0.0	V-Horn	AV	0.0	46.0	54.0	-8.0	Channel 48, 6 Mbps, EUT display horizontal
15719.580	23.7	22.1	259.0	1.3	3.0	0.0	H-Horn	AV	0.0	45.8	54.0	-8.2	Channel 48, 6 Mbps, EUT on side
15778.820	23.6	22.1	345.0	1.0	3.0	0.0	V-Horn	AV	0.0	45.7	54.0	-8.3	Channel 52, 6 Mbps, EUT display horizontal
15784.700	23.2	22.1	261.0	1.0	3.0	0.0	H-Horn	AV	0.0	45.3	54.0	-8.7	Channel 52, 6 Mbps, EUT on side
15965.150	23.2	22.0	113.0	1.0	3.0	0.0	V-Horn	AV	0.0	45.2	54.0	-8.8	Channel 64, 6 Mbps, EUT display horizontal
15966.380	23.1	22.0	161.0	1.3	3.0	0.0	H-Horn	AV	0.0	45.1	54.0	-8.9	Channel 64, 6 Mbps, EUT on side
15541.520	37.8	22.2	28.0	1.0	3.0	0.0	V-Horn	PK	0.0	60.0	74.0	-14.0	Channel 36, 6 Mbps, EUT display horizontal
15538.300	37.7	22.2	263.0	1.3	3.0	0.0	H-Horn	PK	0.0	59.9	74.0	-14.1	Channel 36, 6 Mbps, EUT on side
15719.450	37.3	22.1	344.0	1.0	3.0	0.0	V-Horn	PK	0.0	59.4	74.0	-14.6	Channel 48, 6 Mbps, EUT display horizontal
15958.680	36.4	22.0	161.0	1.3	3.0	0.0	H-Horn	PK	0.0	58.4	74.0	-15.6	Channel 64, 6 Mbps, EUT on side
15717.520	36.2	22.1	259.0	1.3	3.0	0.0	H-Horn	PK	0.0	58.3	74.0	-15.7	Channel 48, 6 Mbps, EUT on side
15779.580	36.1	22.1	261.0	1.0	3.0	0.0	H-Horn	PK	0.0	58.2	74.0	-15.8	Channel 52, 6 Mbps, EUT on side
15961.700	36.2	22.0	113.0	1.0	3.0	0.0	V-Horn	PK	0.0	58.2	74.0	-15.8	Channel 64, 6 Mbps, EUT display horizontal
15782.020	35.8	22.1	345.0	1.0	3.0	0.0	V-Horn	PK	0.0	57.9	74.0	-16.1	Channel 52, 6 Mbps, EUT display horizontal

EUT: IX-WL3945 in the IX750	Work Order: SPTE0060
Serial Number: Unknown	Date: 06/20/07
Customer: Spectrum Technology	Temperature: 22
Attendees: None	Humidity: 33%
Project: None	Barometric Pres.: 30.09
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV01

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

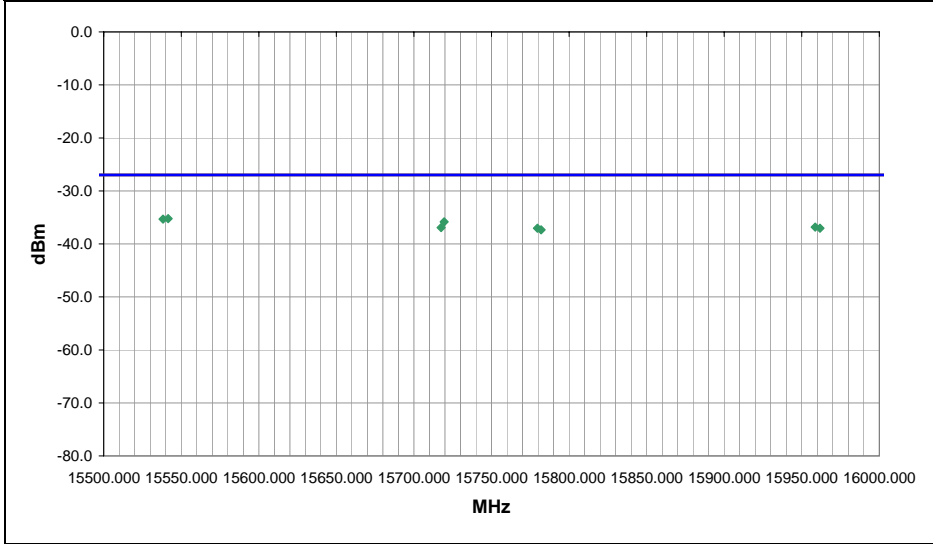
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 4	Test Distance (m)	3

COMMENTS
Aux antenna. Office dock configuration

EUT OPERATING MODES
Transmitting 802.11(a), 5150-5250 MHz and 5250-5350 MHz band

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	21	 Signature
Configuration #	2	
Results	Pass	



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
15541.520	28.0	1.0	V-Horn	PK	3.00E-07	-35.2	-27.0	-8.2	Channel 36, 6 Mbps, EUT display horizontal
15538.300	263.0	1.3	H-Horn	PK	2.93E-07	-35.3	-27.0	-8.3	Channel 36, 6 Mbps, EUT on side
15719.450	344.0	1.0	V-Horn	PK	2.61E-07	-35.8	-27.0	-8.8	Channel 48, 6 Mbps, EUT display horizontal
15958.680	161.0	1.3	H-Horn	PK	2.08E-07	-36.8	-27.0	-9.8	Channel 64, 6 Mbps, EUT on side
15717.520	259.0	1.3	H-Horn	PK	2.03E-07	-36.9	-27.0	-9.9	Channel 48, 6 Mbps, EUT on side
15779.580	261.0	1.0	H-Horn	PK	1.98E-07	-37.0	-27.0	-10.0	Channel 52, 6 Mbps, EUT on side
15961.700	113.0	1.0	V-Horn	PK	1.98E-07	-37.0	-27.0	-10.0	Channel 64, 6 Mbps, EUT display horizontal
15782.020	345.0	1.0	V-Horn	PK	1.85E-07	-37.3	-27.0	-10.3	Channel 52, 6 Mbps, EUT display horizontal

EUT: IX-WL3945 in the IX750	Work Order: SPT0060
Serial Number: Unknown	Date: 06/20/07
Customer: Spectrum Technology, Inc.	Temperature: 24°C
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 30.17
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV01

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

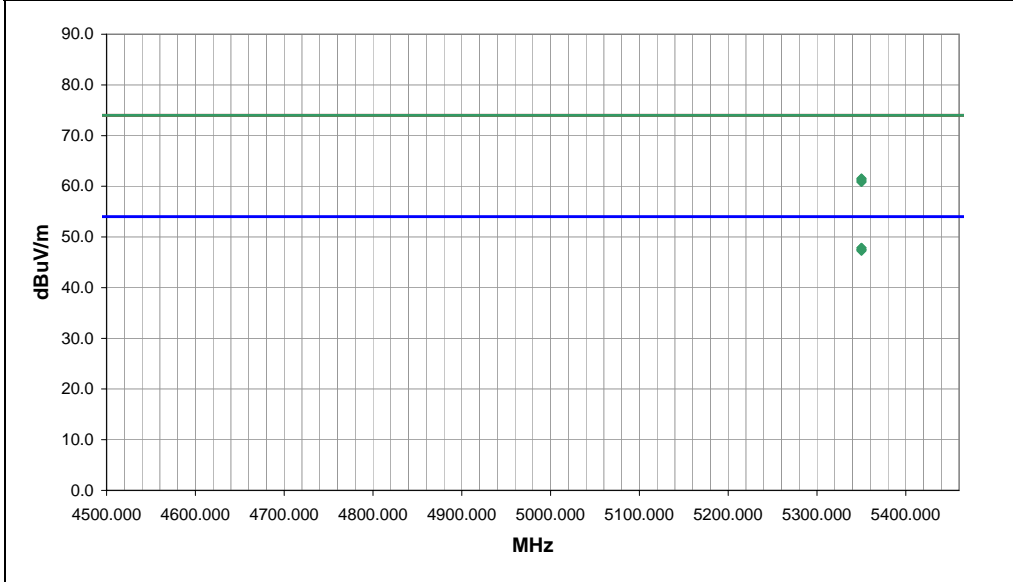
TEST PARAMETERS			
Antenna Height(s) (m)	1 - 2	Test Distance (m)	1

COMMENTS
Aux antenna, Office dock configuration

EUT OPERATING MODES
Transmitting 802.11(a), Channel 64

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	23	 Signature
Configuration #	2	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
5350.000	20.5	36.9	275.0	1.3	1.0	0.0	H-Horn	AV	-9.5	47.9	54.0	-6.1	6 Mbps, EUT display horizontal
5350.012	20.5	36.9	241.0	1.5	1.0	0.0	V-Horn	AV	-9.5	47.9	54.0	-6.1	6 Mbps, EUT on side
5350.000	20.2	36.9	275.0	1.3	1.0	0.0	H-Horn	AV	-9.5	47.6	54.0	-6.4	36 Mbps, EUT display horizontal
5350.000	20.1	36.9	241.0	1.5	1.0	0.0	V-Horn	AV	-9.5	47.5	54.0	-6.5	36 Mbps, EUT on side
5350.000	20.1	36.9	275.0	1.3	1.0	0.0	H-Horn	AV	-9.5	47.5	54.0	-6.5	54 Mbps, EUT display horizontal
5350.000	19.9	36.9	241.0	1.5	1.0	0.0	V-Horn	AV	-9.5	47.3	54.0	-6.7	54 Mbps, EUT on side
5350.000	34.2	36.9	241.0	1.5	1.0	0.0	V-Horn	PK	-9.5	61.6	74.0	-12.4	6 Mbps, EUT on side
5350.000	34.1	36.9	275.0	1.3	1.0	0.0	H-Horn	PK	-9.5	61.5	74.0	-12.5	36 Mbps, EUT display horizontal
5350.000	33.9	36.9	275.0	1.3	1.0	0.0	H-Horn	PK	-9.5	61.3	74.0	-12.7	6 Mbps, EUT display horizontal
5350.000	33.8	36.9	241.0	1.5	1.0	0.0	V-Horn	PK	-9.5	61.2	74.0	-12.8	54 Mbps, EUT on side
5350.000	33.5	36.9	241.0	1.5	1.0	0.0	V-Horn	PK	-9.5	60.9	74.0	-13.1	36 Mbps, EUT on side
5350.000	33.5	36.9	275.0	1.3	1.0	0.0	H-Horn	PK	-9.5	60.9	74.0	-13.1	54 Mbps, EUT display horizontal

SPURIOUS RADIATED EMISSIONS DATA SHEET

EMC

EUT: IX-WL3945 in the IX750	Work Order: SPT0060
Serial Number: Unknown	Date: 06/20/07
Customer: Spectrum Technology, Inc.	Temperature: 24°C
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 30.17
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

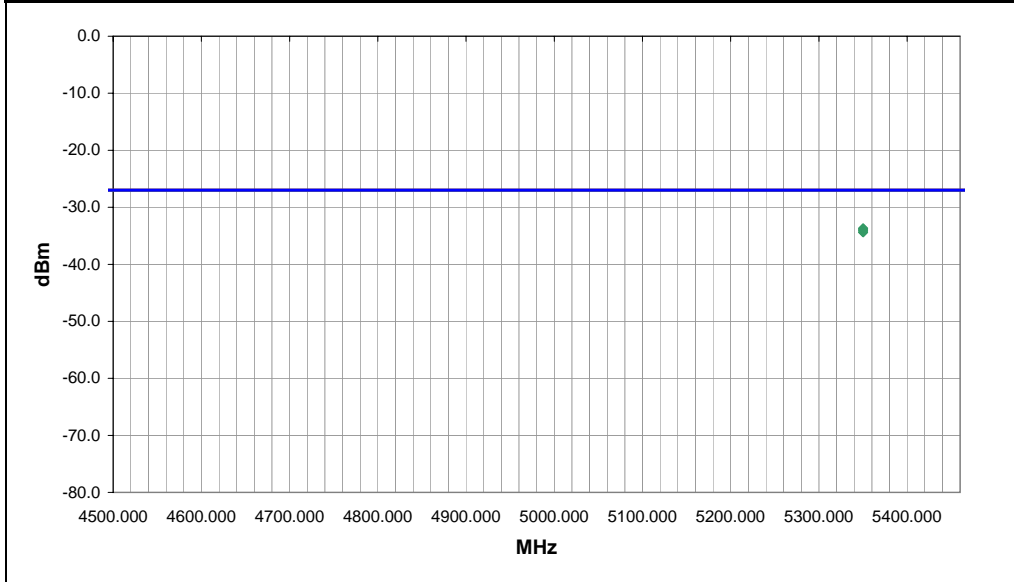
TEST PARAMETERS
Antenna Height(s) (m) 1 - 2 Test Distance (m) 1

COMMENTS
Aux antenna, Office dock configuration

EUT OPERATING MODES
Transmitting 802.11(a), Channel 64

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	23	 Signature
Configuration #	2	
Results	Pass	



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
5350.000	241.0	1.5	V-Horn	PK	4.29E-07	-33.7	-27.0	-6.7	6 Mbps, EUT on side
5350.000	275.0	1.3	H-Horn	PK	4.20E-07	-33.8	-27.0	-6.8	36 Mbps, EUT display horizontal
5350.000	275.0	1.3	H-Horn	PK	4.01E-07	-34.0	-27.0	-7.0	6 Mbps, EUT display horizontal
5350.000	241.0	1.5	V-Horn	PK	3.92E-07	-34.1	-27.0	-7.1	54 Mbps, EUT on side
5350.000	241.0	1.5	V-Horn	PK	3.65E-07	-34.4	-27.0	-7.4	36 Mbps, EUT on side
5350.000	275.0	1.3	H-Horn	PK	3.65E-07	-34.4	-27.0	-7.4	54 Mbps, EUT display horizontal

EUT: IX-WL3945 in the IX750	Work Order: SPT0060
Serial Number: Unknown	Date: 06/20/07
Customer: Spectrum Technology, Inc.	Temperature: 24°C
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 30.17
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV01

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

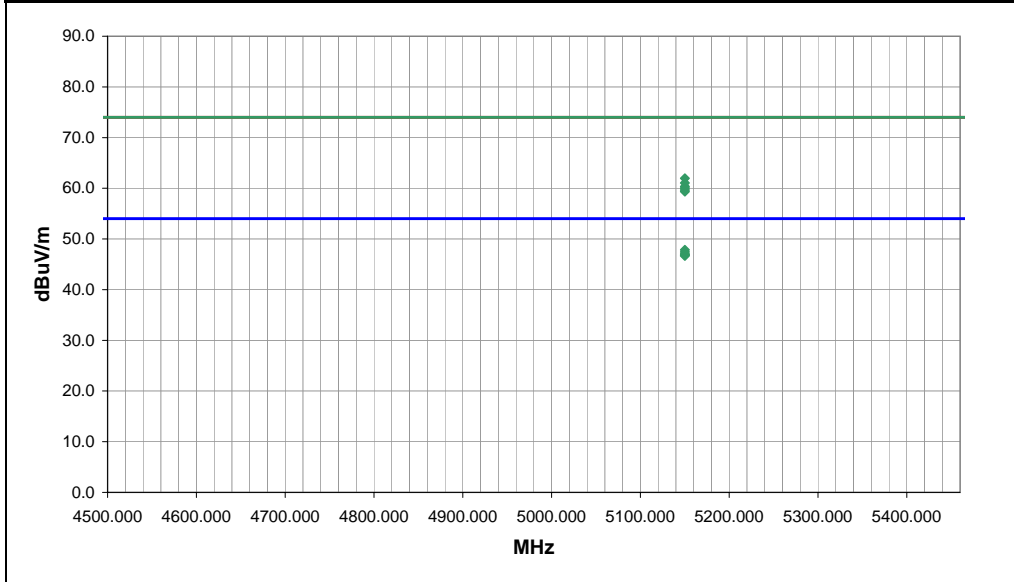
TEST PARAMETERS
Antenna Height(s) (m) 1 - 2 Test Distance (m) 1

COMMENTS
Main antenna, Office dock configuration.

EUT OPERATING MODES
Transmitting 802.11(a), Channel 36

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	24	 Signature
Configuration #	2	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
5150.000	21.1	36.3	304.0	1.0	1.0	0.0	H-Horn	AV	-9.5	47.9	54.0	-6.1	6 Mbps, EUT display horizontal
5150.000	20.7	36.3	304.0	1.0	1.0	0.0	H-Horn	AV	-9.5	47.5	54.0	-6.5	36 Mbps, EUT display horizontal
5150.000	20.3	36.3	209.0	1.1	1.0	0.0	V-Horn	AV	-9.5	47.1	54.0	-6.9	6 Mbps, EUT on side
5150.000	20.1	36.3	209.0	1.1	1.0	0.0	V-Horn	AV	-9.5	46.9	54.0	-7.1	36 Mbps, EUT on side
5150.000	20.1	36.3	304.0	1.0	1.0	0.0	H-Horn	AV	-9.5	46.9	54.0	-7.1	54 Mbps, EUT display horizontal
5150.000	19.9	36.3	209.0	1.1	1.0	0.0	V-Horn	AV	-9.5	46.7	54.0	-7.3	36 Mbps, EUT on side
5150.000	35.2	36.3	304.0	1.0	1.0	0.0	H-Horn	PK	-9.5	62.0	74.0	-12.0	6 Mbps, EUT display horizontal
5150.000	34.3	36.3	304.0	1.0	1.0	0.0	H-Horn	PK	-9.5	61.1	74.0	-12.9	36 Mbps, EUT display horizontal
5150.000	33.6	36.3	209.0	1.1	1.0	0.0	V-Horn	PK	-9.5	60.4	74.0	-13.6	6 Mbps, EUT on side
5150.000	33.3	36.3	209.0	1.1	1.0	0.0	V-Horn	PK	-9.5	60.1	74.0	-13.9	36 Mbps, EUT on side
5150.000	32.9	36.3	304.0	1.0	1.0	0.0	H-Horn	PK	-9.5	59.7	74.0	-14.3	54 Mbps, EUT display horizontal
5150.000	32.6	36.3	209.0	1.1	1.0	0.0	V-Horn	PK	-9.5	59.4	74.0	-14.6	36 Mbps, EUT on side

SPURIOUS RADIATED EMISSIONS DATA SHEET

EUT: IX-WL3945 in the IX750	Work Order: SPT0060
Serial Number: Unknown	Date: 06/20/07
Customer: Spectrum Technology, Inc.	Temperature: 24°C
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 30.17
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

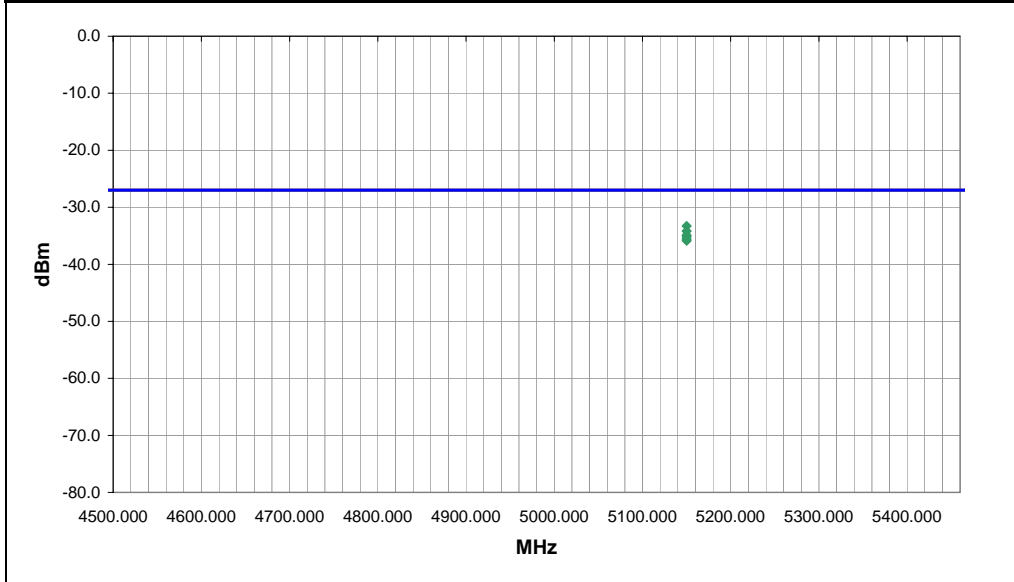
TEST PARAMETERS
Antenna Height(s) (m) 1 - 2 Test Distance (m) 1

COMMENTS
Main antenna, Office dock configuration.

EUT OPERATING MODES
Transmitting 802.11(a), Channel 36

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	24	 Signature
Configuration #	2	
Results	Pass	



Freq (MHz)	Azimuth (degrees)	Height (meters)	Polarity	Detector	EIRP (Watts)	EIRP (dBm)	Spec. Limit (dBm)	Compared to Spec. (dB)	Comments
5150.000	304.0	1.0	H-Horn	PK	4.71E-07	-33.3	-27.0	-6.3	6 Mbps, EUT display horizontal
5150.000	304.0	1.0	H-Horn	PK	3.83E-07	-34.2	-27.0	-7.2	36 Mbps, EUT display horizontal
5150.000	209.0	1.1	V-Horn	PK	3.26E-07	-34.9	-27.0	-7.9	6 Mbps, EUT on side
5150.000	209.0	1.1	V-Horn	PK	3.04E-07	-35.2	-27.0	-8.2	36 Mbps, EUT on side
5150.000	304.0	1.0	H-Horn	PK	2.77E-07	-35.6	-27.0	-8.6	54 Mbps, EUT display horizontal
5150.000	209.0	1.1	V-Horn	PK	2.59E-07	-35.9	-27.0	-8.9	36 Mbps, EUT on side

EUT: IX-WL3945 in the IX750	Work Order: SPTE0060
Serial Number: Unknown	Date: 06/20/07
Customer: Spectrum Technology, Inc.	Temperature: 24°C
Attendees: None	Humidity: 32%
Project: None	Barometric Pres.: 30.17
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

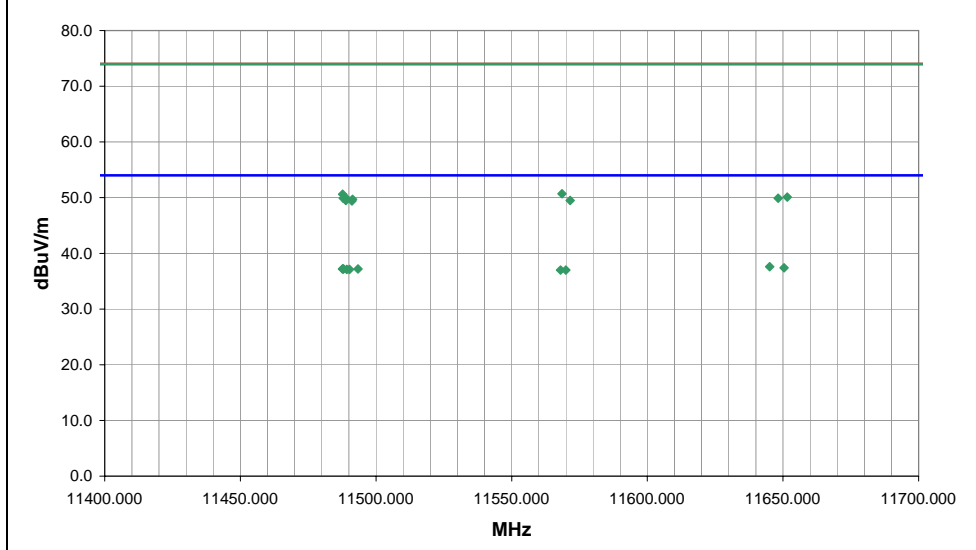
COMMENTS
Aux antenna, Office dock configuration.

EUT OPERATING MODES
Transmitting 802.11(a), see comments for data rate and channel.

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	29
Configuration #	2
Results	Pass

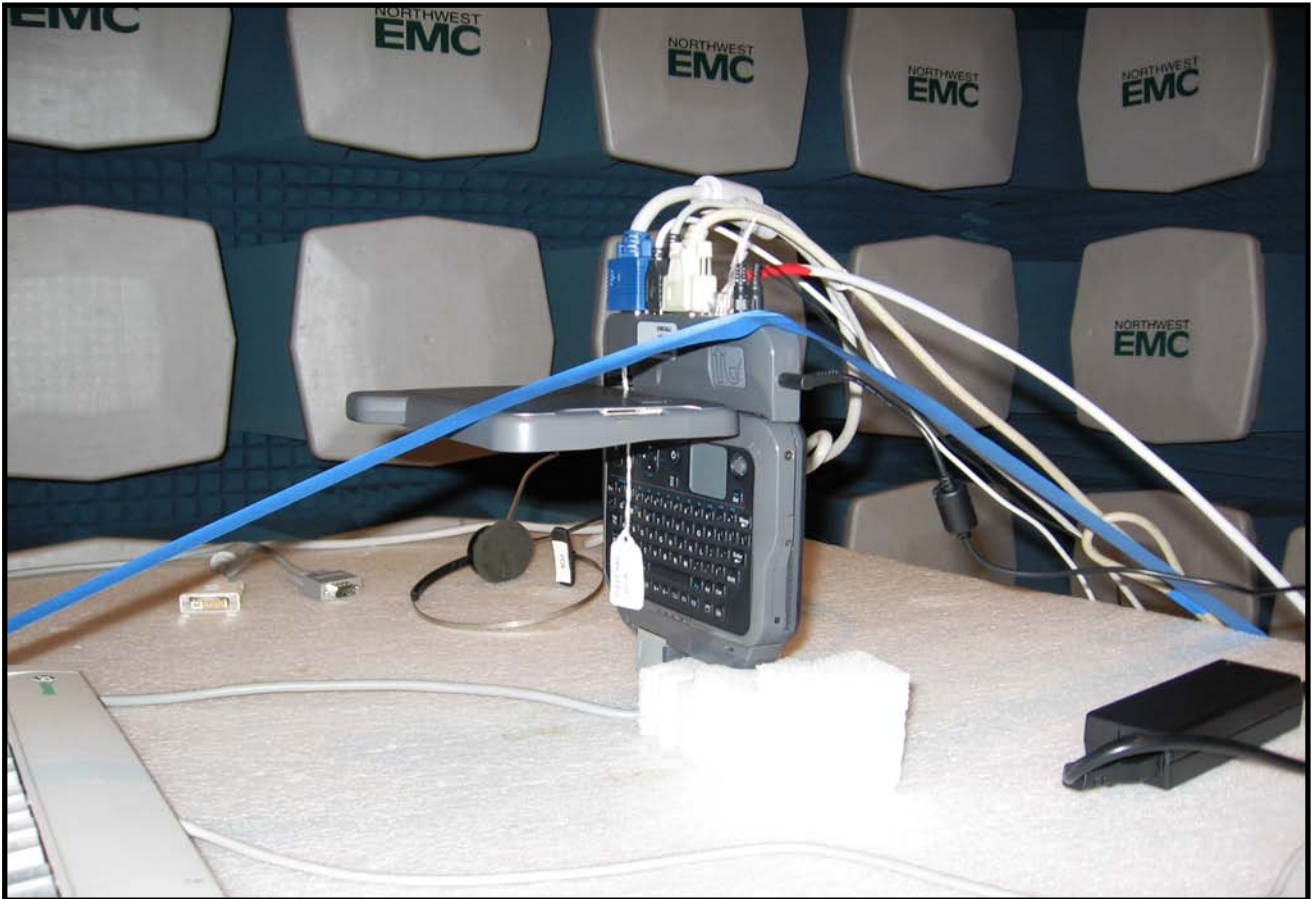
Signature *Holly Ashkannejhad*



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
11645.100	21.5	16.1	116.0	2.1	3.0	0.0	V-Horn	AV	0.0	37.6	54.0	-16.4	Ch. 165, 6Mbps, EUT typical position
11650.400	21.4	16.0	355.0	1.0	3.0	0.0	H-Horn	AV	0.0	37.4	54.0	-16.6	Ch. 165, 6Mbps, EUT typical position
11487.630	21.1	16.1	360.0	1.7	3.0	0.0	V-Horn	AV	0.0	37.2	54.0	-16.8	Ch. 149, 6Mbps, EUT typical position
11487.880	21.1	16.1	35.0	1.0	3.0	0.0	H-Horn	AV	0.0	37.2	54.0	-16.8	Ch. 149, 36Mbps, EUT typical position
11487.990	21.1	16.1	19.0	1.0	3.0	0.0	H-Horn	AV	0.0	37.2	54.0	-16.8	Ch. 149, 6Mbps, EUT typical position
11493.360	21.1	16.1	133.0	1.0	3.0	0.0	V-Horn	AV	0.0	37.2	54.0	-16.8	Ch. 149, 36Mbps, EUT typical position
11489.250	21.0	16.1	218.0	1.0	3.0	0.0	H-Horn	AV	0.0	37.1	54.0	-16.9	Ch. 149, 54Mbps, EUT typical position
11490.240	21.0	16.1	86.0	1.0	3.0	0.0	V-Horn	AV	0.0	37.1	54.0	-16.9	Ch. 149, 54Mbps, EUT typical position
11568.000	21.0	16.0	247.0	1.0	3.0	0.0	H-Horn	AV	0.0	37.0	54.0	-17.0	Ch. 157, 6Mbps, EUT typical position
11569.970	21.0	16.0	222.0	1.0	3.0	0.0	V-Horn	AV	0.0	37.0	54.0	-17.0	Ch. 157, 6Mbps, EUT typical position
11568.540	34.7	16.0	222.0	1.0	3.0	0.0	V-Horn	PK	0.0	50.7	74.0	-23.3	Ch. 157, 6Mbps, EUT typical position
11487.720	34.5	16.1	133.0	1.0	3.0	0.0	V-Horn	PK	0.0	50.6	74.0	-23.4	Ch. 149, 36Mbps, EUT typical position
11651.580	34.1	16.0	355.0	1.0	3.0	0.0	H-Horn	PK	0.0	50.1	74.0	-23.9	Ch. 165, 6Mbps, EUT typical position
11648.240	33.9	16.0	116.0	2.1	3.0	0.0	V-Horn	PK	0.0	49.9	74.0	-24.1	Ch. 165, 6Mbps, EUT typical position
11487.940	33.8	16.1	35.0	1.0	3.0	0.0	H-Horn	PK	0.0	49.9	74.0	-24.1	Ch. 149, 36Mbps, EUT typical position
11489.000	33.8	16.1	19.0	1.0	3.0	0.0	H-Horn	PK	0.0	49.9	74.0	-24.1	Ch. 149, 6Mbps, EUT typical position
11491.340	33.6	16.1	360.0	1.7	3.0	0.0	V-Horn	PK	0.0	49.7	74.0	-24.3	Ch. 149, 6Mbps, EUT typical position
11488.860	33.4	16.1	218.0	1.0	3.0	0.0	H-Horn	PK	0.0	49.5	74.0	-24.5	Ch. 149, 54Mbps, EUT typical position
11571.580	33.5	16.0	247.0	1.0	3.0	0.0	H-Horn	PK	0.0	49.5	74.0	-24.5	Ch. 157, 6Mbps, EUT typical position
11491.110	33.3	16.1	86.0	1.0	3.0	0.0	V-Horn	PK	0.0	49.4	74.0	-24.6	Ch. 149, 54Mbps, EUT typical position







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

MODES OF OPERATION

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

CHANNELS INVESTIGATED

Low Channel
Mid Channel
High Channel

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	26 GHz
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SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4446A	AAT	12/7/2006	13
High Pass Filter	Micro-Tronics	HPM50111	HFO	12/29/2006	13
Pre-Amplifier	Miteq	AM-1616-1000	AOL	12/29/2006	13
Antenna, Biconilog	EMCO	3141	AXE	12/28/2005	24
EV01 cables c,g, h			EVA	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	12
EV01 cables g,h,j			EVB	5/10/2007	13
Pre-Amplifier	Miteq	AMF-4D-005180-24-10P	APC	5/10/2007	13
Antenna, Horn	EMCO	3160-08	AHK	NCR	0
EV01 Cable D			EVD	3/30/2006	15
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	3/23/2006	17
Antenna, Horn	EMCO	3160-09	AHG	NCR	0
EV01 cables g,h,l			EVF	5/10/2007	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. 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.

EUT: IX-WL3945 in the IX750	Work Order: SPT0060
Serial Number: Unknown	Date: 06/18/07
Customer: Spectrum Technology	Temperature: 24°C
Attendees: Rod Munro	Humidity: 32%
Project: None	Barometric Pres.: 30.17
Tested by: David Divergigelis	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
Main antenna. Office dock. See comments for Channel and Data Rate.

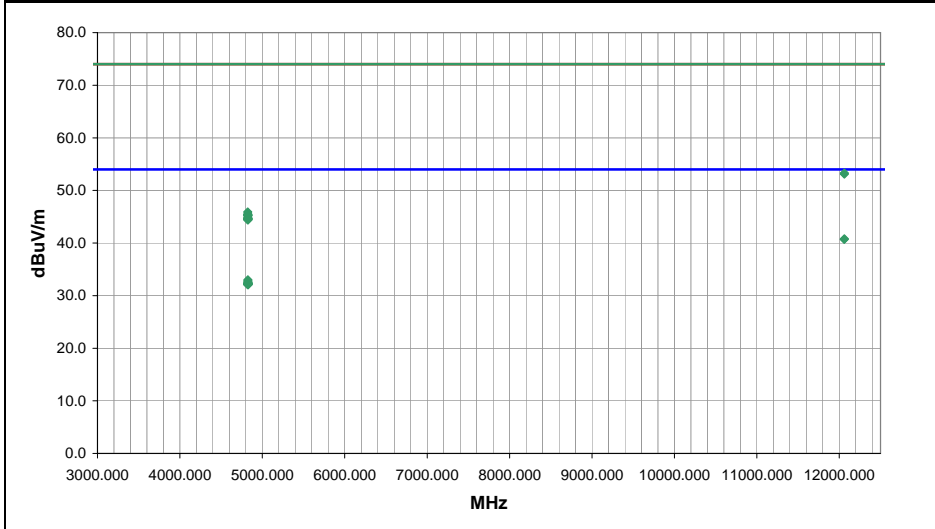
EUT OPERATING MODES
TX 802.11(b)(g) low channel.

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	1
Configuration #	2
Results	Pass

Signature *[Handwritten 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
12061.720	24.6	16.2	222.0	1.0	3.0	0.0	H-Horn	AV	0.0	40.8	54.0	-13.2	TX low channel, 36Mbps, EUT Typical position
12060.170	24.5	16.2	165.0	1.0	3.0	0.0	V-Horn	AV	0.0	40.7	54.0	-13.3	TX low channel, 36Mbps, EUT Typical position
12060.760	37.1	16.2	222.0	1.0	3.0	0.0	H-Horn	PK	0.0	53.3	74.0	-20.7	TX low channel, 36Mbps, EUT Typical position
12061.540	36.9	16.2	165.0	1.0	3.0	0.0	V-Horn	PK	0.0	53.1	74.0	-20.9	TX low channel, 36Mbps, EUT Typical position
4823.892	25.5	7.5	-1.0	1.2	3.0	0.0	V-Horn	AV	0.0	33.0	54.0	-21.0	TX low channel, 11Mbps, EUT Typical position
4823.908	25.3	7.5	219.0	1.0	3.0	0.0	V-Horn	AV	0.0	32.8	54.0	-21.2	TX low channel, 6Mbps, EUT Typical position
4823.975	25.1	7.5	348.0	1.0	3.0	0.0	H-Horn	AV	0.0	32.6	54.0	-21.4	TX low channel, 11Mbps, EUT Typical position
4825.417	24.9	7.5	89.0	2.3	3.0	0.0	H-Horn	AV	0.0	32.4	54.0	-21.6	TX low channel, 36Mbps, EUT Typical position
4825.908	24.9	7.5	229.0	1.0	3.0	0.0	V-Horn	AV	0.0	32.4	54.0	-21.6	TX low channel, 36Mbps, EUT Typical position
4826.275	24.9	7.5	196.0	2.3	3.0	0.0	H-Horn	AV	0.0	32.4	54.0	-21.6	TX low channel, 6Mbps, EUT Typical position
4825.117	24.8	7.5	135.0	3.5	3.0	0.0	H-Horn	AV	0.0	32.3	54.0	-21.7	TX low channel, 1Mbps, EUT Typical position
4825.550	24.8	7.5	326.0	2.3	3.0	0.0	H-Horn	AV	0.0	32.3	54.0	-21.7	TX low channel, 54Mbps, EUT Typical position
4825.058	24.7	7.5	314.0	1.0	3.0	0.0	V-Horn	AV	0.0	32.2	54.0	-21.8	TX low channel, 1Mbps, EUT Typical position
4825.558	24.7	7.5	39.0	1.0	3.0	0.0	V-Horn	AV	0.0	32.2	54.0	-21.8	TX low channel, 36Mbps, EUT on side
4826.233	24.7	7.5	270.0	1.0	3.0	0.0	V-Horn	AV	0.0	32.2	54.0	-21.8	TX low channel, 54Mbps, EUT Typical position
4824.117	24.6	7.5	209.0	3.8	3.0	0.0	V-Horn	AV	0.0	32.1	54.0	-21.9	TX low channel, 36Mbps, EUT display horizontal
4824.600	24.6	7.5	236.0	2.3	3.0	0.0	H-Horn	AV	0.0	32.1	54.0	-21.9	TX low channel, 36Mbps, EUT on side
4825.717	24.6	7.5	300.0	2.3	3.0	0.0	H-Horn	AV	0.0	32.1	54.0	-21.9	TX low channel, 36Mbps, EUT display horizontal
4823.408	38.4	7.5	-1.0	1.2	3.0	0.0	V-Horn	PK	0.0	45.9	74.0	-28.1	TX low channel, 11Mbps, EUT Typical position
4822.000	38.0	7.5	229.0	1.0	3.0	0.0	V-Horn	PK	0.0	45.5	74.0	-28.5	TX low channel, 36Mbps, EUT Typical position

EUT: IX-WL3945 in the IX750	Work Order: SPT0060
Serial Number: Unknown	Date: 06/18/07
Customer: Spectrum Technology	Temperature: 24°C
Attendees: Rod Munro	Humidity: 32%
Project: None	Barometric Pres.: 30.17
Tested by: David Divergigelis	Power: 120VAC/60Hz
	Job Site: EV01

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

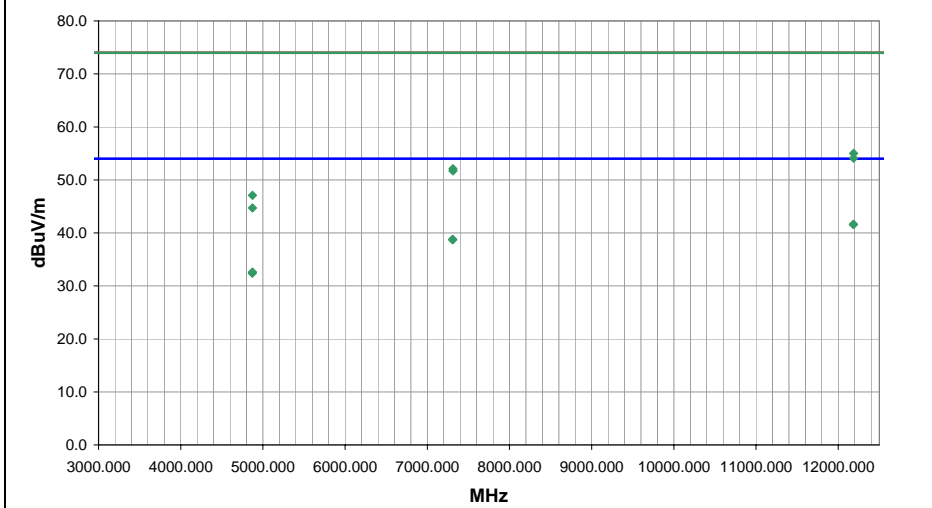
TEST PARAMETERS	
Antenna Height(s) (m) 1 - 4	Test Distance (m) 3

COMMENTS
Main antenna. Office dock. See comments for Channel and Data Rate.

EUT OPERATING MODES
TX Mid channel 802.11(b)(g), 36Mbps

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	3	Signature <i>David Divergigelis</i>
Configuration #	2	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
12184.280	24.7	16.9	167.0	1.8	3.0	0.0	V-Horn	AV	0.0	41.6	54.0	-12.4	TX Mid channel, 36Mbps, EUT Typical position
12185.440	24.7	16.9	332.0	3.4	3.0	0.0	H-Horn	AV	0.0	41.6	54.0	-12.4	TX Mid channel, 36Mbps, EUT Typical position
7308.400	25.0	13.8	271.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.8	54.0	-15.2	TX Mid channel, 36Mbps, EUT Typical position
7308.358	24.9	13.8	274.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.7	54.0	-15.3	TX Mid channel, 36Mbps, EUT Typical position
12185.850	38.1	16.9	332.0	3.4	3.0	0.0	H-Horn	PK	0.0	55.0	74.0	-19.0	TX Mid channel, 36Mbps, EUT Typical position
12186.030	37.2	16.9	167.0	1.8	3.0	0.0	V-Horn	PK	0.0	54.1	74.0	-19.9	TX Mid channel, 36Mbps, EUT Typical position
4871.842	25.0	7.6	148.0	1.0	3.0	0.0	H-Horn	AV	0.0	32.6	54.0	-21.4	TX Mid channel, 36Mbps, EUT Typical position
4870.483	24.8	7.6	99.0	1.0	3.0	0.0	V-Horn	AV	0.0	32.4	54.0	-21.6	TX Mid channel, 36Mbps, EUT Typical position
7312.083	38.3	13.8	271.0	1.0	3.0	0.0	H-Horn	PK	0.0	52.1	74.0	-21.9	TX Mid channel, 36Mbps, EUT Typical position
7312.083	37.9	13.8	274.0	1.0	3.0	0.0	V-Horn	PK	0.0	51.7	74.0	-22.3	TX Mid channel, 36Mbps, EUT Typical position
4872.408	39.5	7.6	148.0	1.0	3.0	0.0	H-Horn	PK	0.0	47.1	74.0	-26.9	TX Mid channel, 36Mbps, EUT Typical position
4871.842	37.1	7.6	99.0	1.0	3.0	0.0	V-Horn	PK	0.0	44.7	74.0	-29.3	TX Mid channel, 36Mbps, EUT Typical position

SPURIOUS RADIATED EMISSIONS

EMC

EUT: IX-WL3945 in the IX750	Work Order: SPTE0060
Serial Number: Unknown	Date: 06/19/07
Customer: Spectrum Technology	Temperature: 24°C
Attendees: Rod Munro	Humidity: 32%
Project: None	Barometric Pres.: 30.17
Tested by: David Divergigelis	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
Main antenna. Office dock. See comments for Channel and Data Rate.

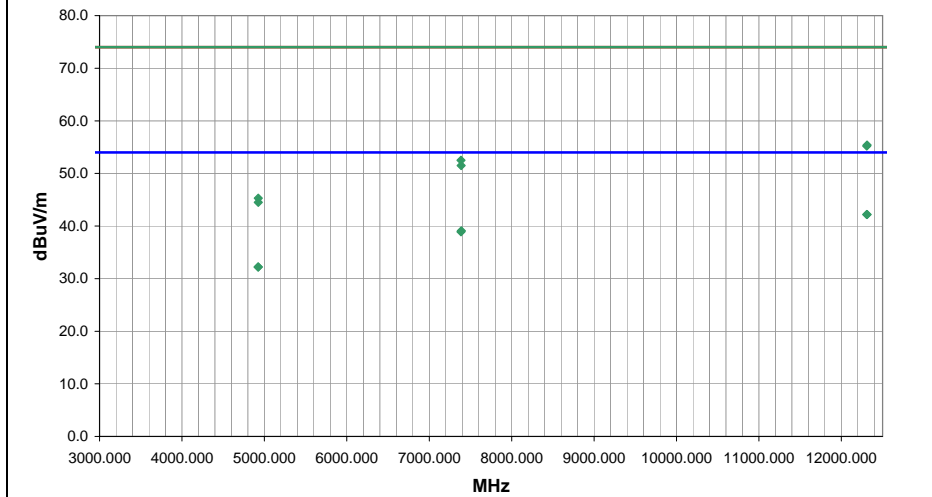
EUT OPERATING MODES

TX High channel 802.11(g), 36Mbps

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	4	Signature <i>David Divergigelis</i>
Configuration #	2	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
12307.420	24.7	17.5	347.0	1.0	0.0	0.0	V-Horn	AV	0.0	42.2	54.0	-11.8	TX High channel, 36Mbps, EUT Typical position
12310.890	24.7	17.5	93.0	1.0	0.0	0.0	H-Horn	AV	0.0	42.2	54.0	-11.8	TX High channel, 36Mbps, EUT Typical position
7388.608	24.8	14.3	199.0	1.0	0.0	0.0	V-Horn	AV	0.0	39.1	54.0	-14.9	TX High channel, 36Mbps, EUT Typical position
7384.942	24.6	14.3	281.0	2.1	0.0	0.0	H-Horn	AV	0.0	38.9	54.0	-15.1	TX High channel, 36Mbps, EUT Typical position
12312.480	37.9	17.5	93.0	1.0	0.0	0.0	H-Horn	PK	0.0	55.4	74.0	-18.6	TX High channel, 36Mbps, EUT Typical position
12308.220	37.7	17.5	347.0	1.0	0.0	0.0	V-Horn	PK	0.0	55.2	74.0	-18.8	TX High channel, 36Mbps, EUT Typical position
7384.650	38.2	14.3	281.0	2.1	0.0	0.0	H-Horn	PK	0.0	52.5	74.0	-21.5	TX High channel, 36Mbps, EUT Typical position
4924.592	24.4	7.8	137.0	1.0	0.0	0.0	H-Horn	AV	0.0	32.2	54.0	-21.8	TX High channel, 36Mbps, EUT Typical position
4925.592	24.4	7.8	302.0	2.0	0.0	0.0	V-Horn	AV	0.0	32.2	54.0	-21.8	TX High channel, 36Mbps, EUT Typical position
7387.892	37.2	14.3	199.0	1.0	0.0	0.0	V-Horn	PK	0.0	51.5	74.0	-22.5	TX High channel, 36Mbps, EUT Typical position
4925.392	37.5	7.8	137.0	1.0	0.0	0.0	H-Horn	PK	0.0	45.3	74.0	-28.7	TX High channel, 36Mbps, EUT Typical position
4926.450	36.7	7.8	302.0	2.0	0.0	0.0	V-Horn	PK	0.0	44.5	74.0	-29.5	TX High channel, 36Mbps, EUT Typical position

SPURIOUS RADIATED EMISSIONS

EUT: IX-WL3945 in the IX750		Work Order: SPTE0060	
Serial Number: Unknown		Date: 06/19/07	
Customer: Spectrum Technology		Temperature: 24°C	
Attendees: Rod Munro		Humidity: 32%	
Project: None		Barometric Pres.: 30.17	
Tested by: David Divergigelis		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
Main antenna. Office dock. See comments for Channel and Data Rate.

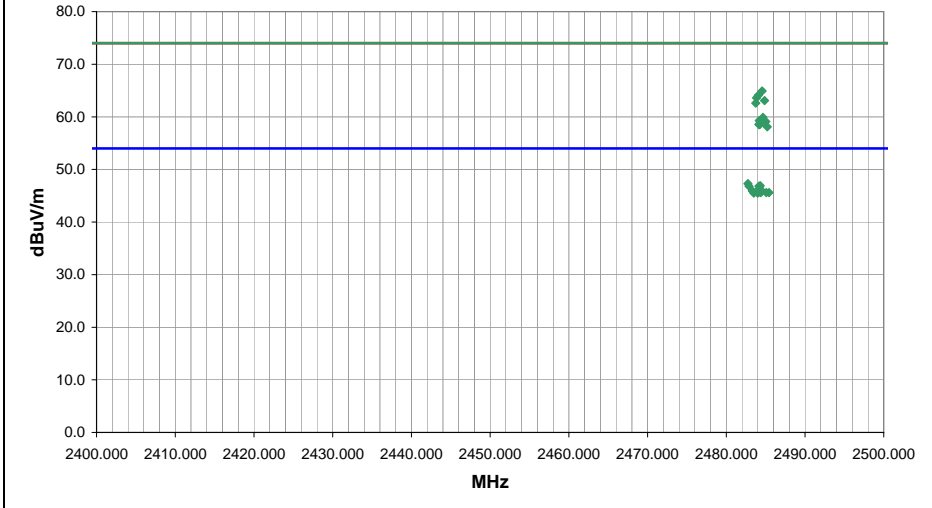
EUT OPERATING MODES
TX High channel 802.11, 36Mbps

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	5
Configuration #	2
Results	Pass

Signature *[Handwritten 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
2482.735	26.9	0.4	343.0	1.0	3.0	20.0	H-Horn	AV	0.0	47.3	54.0	-6.7	TX High channel, 6Mbps, EUT on side
2484.307	26.5	0.4	114.0	1.0	3.0	20.0	H-Horn	AV	0.0	46.9	54.0	-7.1	TX High channel, 6Mbps, EUT Typical position
2482.894	26.4	0.4	269.0	1.0	3.0	20.0	V-Horn	AV	0.0	46.8	54.0	-7.2	TX High channel, 1Mbps, EUT Typical position
2484.150	26.4	0.4	272.0	1.0	3.0	20.0	V-Horn	AV	0.0	46.8	54.0	-7.2	TX High channel, 6Mbps, EUT on side
2484.205	26.0	0.4	123.0	1.0	3.0	20.0	H-Horn	AV	0.0	46.4	54.0	-7.6	TX High channel, 54Mbps, EUT Typical position
2483.310	25.5	0.4	48.0	2.7	3.0	20.0	V-Horn	AV	0.0	45.9	54.0	-8.1	TX High channel, 6Mbps, EUT Typical position
2484.528	25.5	0.4	170.0	1.0	3.0	20.0	H-Horn	AV	0.0	45.9	54.0	-8.1	TX High channel, 36Mbps, EUT Typical position
2484.147	25.4	0.4	32.0	1.0	3.0	20.0	V-Horn	AV	0.0	45.8	54.0	-8.2	TX High channel, 54Mbps, EUT Typical position
2484.062	25.2	0.4	12.0	2.9	3.0	20.0	H-Horn	AV	0.0	45.6	54.0	-8.4	TX High channel, 6Mbps, EUT on side
2484.370	25.2	0.4	210.0	1.0	3.0	20.0	V-Horn	AV	0.0	45.6	54.0	-8.4	TX High channel, 36Mbps, EUT Typical position
2485.073	25.2	0.4	248.0	1.0	3.0	20.0	H-Horn	AV	0.0	45.6	54.0	-8.4	TX High channel, 11Mbps, EUT Typical position
2485.425	25.2	0.4	61.0	3.2	3.0	20.0	V-Horn	AV	0.0	45.6	54.0	-8.4	TX High channel, 11Mbps, EUT Typical position
2483.505	25.1	0.4	269.0	2.9	3.0	20.0	H-Horn	AV	0.0	45.5	54.0	-8.5	TX High channel, 1Mbps, EUT Typical position
2483.993	25.1	0.4	198.0	2.9	3.0	20.0	V-Horn	AV	0.0	45.5	54.0	-8.5	TX High channel, 6Mbps, EUT on side
2484.557	44.5	0.4	272.0	1.0	3.0	20.0	V-Horn	PK	0.0	64.9	74.0	-9.1	TX High channel, 6Mbps, EUT on side
2484.063	43.7	0.4	343.0	1.0	3.0	20.0	H-Horn	PK	0.0	64.1	74.0	-9.9	TX High channel, 6Mbps, EUT on side
2483.847	43.2	0.4	123.0	1.0	3.0	20.0	H-Horn	PK	0.0	63.6	74.0	-10.4	TX High channel, 54Mbps, EUT Typical position
2484.867	42.7	0.4	269.0	1.0	3.0	20.0	V-Horn	PK	0.0	63.1	74.0	-10.9	TX High channel, 1Mbps, EUT Typical position
2483.740	42.2	0.4	114.0	1.0	3.0	20.0	H-Horn	PK	0.0	62.6	74.0	-11.4	TX High channel, 6Mbps, EUT Typical position
2484.657	39.5	0.4	170.0	1.0	3.0	20.0	H-Horn	PK	0.0	59.9	74.0	-14.1	TX High channel, 36Mbps, EUT Typical position

SPURIOUS RADIATED EMISSIONS

EMC

EUT: IX-WL3945 in the IX750	Work Order: SPTE0060
Serial Number: Unknown	Date: 06/19/07
Customer: Spectrum Technology	Temperature: 24°C
Attendees: Rod Munro	Humidity: 32%
Project: None	Barometric Pres.: 30.17
Tested by: David Divergigelis	Power: 120VAC/60Hz
	Job Site: EV01

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

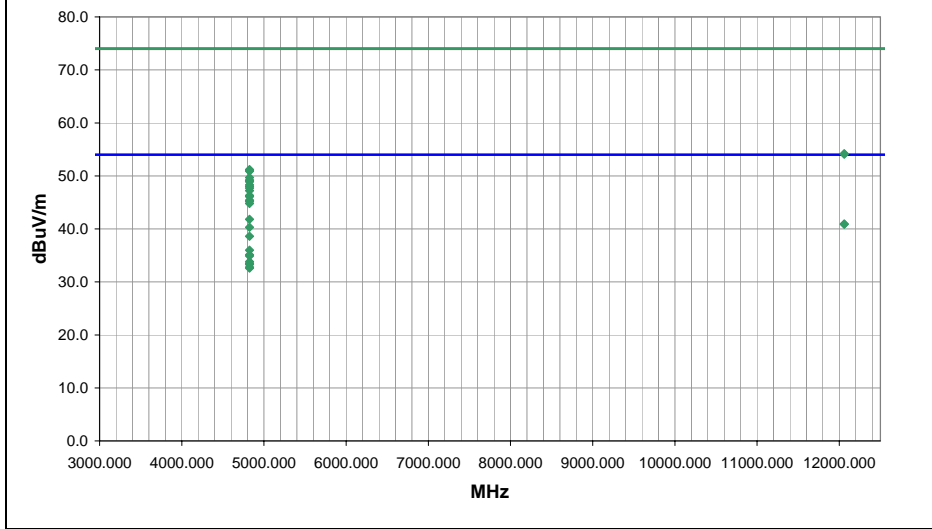
TEST PARAMETERS	
Antenna Height(s) (m) 1 - 4	Test Distance (m) 3

COMMENTS
Auxiliary antenna. Office dock. See comments for Channel and Data Rate.

EUT OPERATING MODES
TX Low channel 802.11(b)(g)

DEVIATIONS FROM TEST STANDARD
No deviations.

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



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
4824.003	37.8	7.5	347.0	1.0	3.0	0.0	V-Horn	AV	0.0	45.3	54.0	-8.7	TX low channel, 1Mbps, EUT on side
4823.957	37.7	7.5	232.0	1.0	3.0	0.0	V-Horn	AV	0.0	45.2	54.0	-8.8	TX low channel, 1Mbps, EUT Typical position
4824.028	37.3	7.5	208.0	1.0	3.0	0.0	H-Horn	AV	0.0	44.8	54.0	-9.2	TX low channel, 1Mbps, EUT display horizontal
4824.007	34.3	7.5	-1.0	1.5	3.0	0.0	H-Horn	AV	0.0	41.8	54.0	-12.2	TX low channel, 1Mbps, EUT Typical position
12059.950	24.7	16.2	297.0	1.0	3.0	0.0	H-Horn	AV	0.0	40.9	54.0	-13.1	TX low channel, 1Mbps, EUT Typical position
12060.130	24.7	16.2	286.0	1.0	3.0	0.0	V-Horn	AV	0.0	40.9	54.0	-13.1	TX low channel, 1Mbps, EUT Typical position
4823.975	32.8	7.5	-1.0	1.0	3.0	0.0	V-Horn	AV	0.0	40.3	54.0	-13.7	TX low channel, 1Mbps, EUT display horizontal
4823.983	31.1	7.5	278.0	1.2	3.0	0.0	H-Horn	AV	0.0	38.6	54.0	-15.4	TX low channel, 1Mbps, EUT on side
4823.953	28.5	7.5	249.0	1.0	3.0	0.0	V-Horn	AV	0.0	36.0	54.0	-18.0	TX low channel, 11Mbps, EUT Typical position
4823.907	27.6	7.5	336.0	1.6	3.0	0.0	H-Horn	AV	0.0	35.1	54.0	-18.9	TX low channel, 11Mbps, EUT Typical position
4824.052	27.4	7.5	239.0	1.0	3.0	0.0	V-Horn	AV	0.0	34.9	54.0	-19.1	TX low channel, 6Mbps, EUT Typical position
12059.700	38.0	16.2	297.0	1.0	3.0	0.0	H-Horn	PK	0.0	54.2	74.0	-19.8	TX low channel, 1Mbps, EUT Typical position
12059.760	37.9	16.2	286.0	1.0	3.0	0.0	V-Horn	PK	0.0	54.1	74.0	-19.9	TX low channel, 1Mbps, EUT Typical position
4823.665	26.3	7.5	231.0	1.0	3.0	0.0	V-Horn	AV	0.0	33.8	54.0	-20.2	TX low channel, 54Mbps, EUT Typical position
4823.107	26.0	7.5	249.0	1.0	3.0	0.0	V-Horn	AV	0.0	33.5	54.0	-20.5	TX low channel, 36Mbps, EUT Typical position
4824.378	25.8	7.5	329.0	1.5	3.0	0.0	H-Horn	AV	0.0	33.3	54.0	-20.7	TX low channel, 6Mbps, EUT Typical position
4823.755	25.3	7.5	10.0	1.5	3.0	0.0	H-Horn	AV	0.0	32.8	54.0	-21.2	TX low channel, 54Mbps, EUT Typical position
4823.217	25.1	7.5	279.0	1.5	3.0	0.0	H-Horn	AV	0.0	32.6	54.0	-21.4	TX low channel, 36Mbps, EUT Typical position
4823.810	43.7	7.5	347.0	1.0	3.0	0.0	V-Horn	PK	0.0	51.2	74.0	-22.8	TX low channel, 1Mbps, EUT on side
4824.022	43.5	7.5	232.0	1.0	3.0	0.0	V-Horn	PK	0.0	51.0	74.0	-23.0	TX low channel, 1Mbps, EUT Typical position

EUT: IX-WL3945 in the IX750	Work Order: SPTE0060
Serial Number: Unknown	Date: 06/19/07
Customer: Spectrum Technology	Temperature: 22
Attendees: Rod Munro	Humidity: 33%
Project: None	Barometric Pres.: 30.01
Tested by: David Divergigelis	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
Auxiliary antenna. Office dock. See comments for Channel and Data Rate.

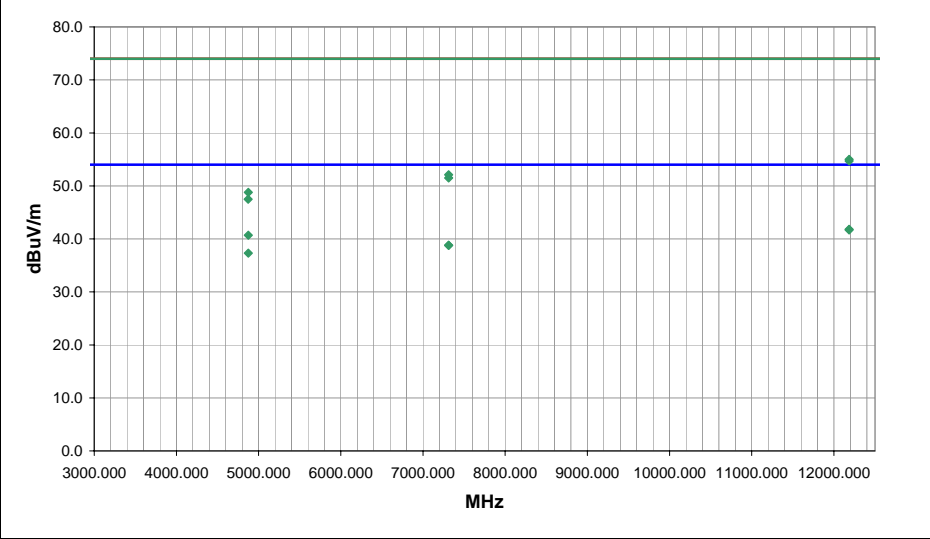
EUT OPERATING MODES
TX Mid channel 802.11(b)(g)

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	15
Configuration #	2
Results	Pass

Signature *David Divergigelis*



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
12184.960	24.9	16.9	347.0	1.0	3.0	0.0	H-Horn	AV	0.0	41.8	54.0	-12.2	TX Mid channel, 1Mbps, EUT Typical position
12185.370	24.8	16.9	202.0	3.3	3.0	0.0	V-Horn	AV	0.0	41.7	54.0	-12.3	TX Mid channel, 1Mbps, EUT Typical position
4873.977	33.1	7.6	21.0	1.0	3.0	0.0	V-Horn	AV	0.0	40.7	54.0	-13.3	TX Mid channel, 1Mbps, EUT Typical position
7311.598	25.0	13.8	133.0	1.0	3.0	0.0	H-Horn	AV	0.0	38.8	54.0	-15.2	TX Mid channel, 1Mbps, EUT Typical position
7311.948	25.0	13.8	237.0	1.0	3.0	0.0	V-Horn	AV	0.0	38.8	54.0	-15.2	TX Mid channel, 1Mbps, EUT Typical position
4874.000	29.7	7.6	129.0	1.6	3.0	0.0	H-Horn	AV	0.0	37.3	54.0	-16.7	TX Mid channel, 1Mbps, EUT Typical position
12184.540	38.1	16.9	202.0	3.3	3.0	0.0	V-Horn	PK	0.0	55.0	74.0	-19.0	TX Mid channel, 1Mbps, EUT Typical position
12185.290	37.8	16.9	347.0	1.0	3.0	0.0	H-Horn	PK	0.0	54.7	74.0	-19.3	TX Mid channel, 1Mbps, EUT Typical position
7311.230	38.3	13.8	237.0	1.0	3.0	0.0	V-Horn	PK	0.0	52.1	74.0	-21.9	TX Mid channel, 1Mbps, EUT Typical position
7311.282	37.7	13.8	133.0	1.0	3.0	0.0	H-Horn	PK	0.0	51.5	74.0	-22.5	TX Mid channel, 1Mbps, EUT Typical position
4874.373	41.2	7.6	21.0	1.0	3.0	0.0	V-Horn	PK	0.0	48.8	74.0	-25.2	TX Mid channel, 1Mbps, EUT Typical position
4873.578	39.9	7.6	129.0	1.6	3.0	0.0	H-Horn	PK	0.0	47.5	74.0	-26.5	TX Mid channel, 1Mbps, EUT Typical position

EUT: IX-WL3945 in the IX750	Work Order: SPT0060
Serial Number: Unknown	Date: 06/19/07
Customer: Spectrum Technology	Temperature: 24°C
Attendees: Rod Munro	Humidity: 32%
Project: None	Barometric Pres.: 30.17
Tested by: David Divergigelis	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
Auxiliary antenna. Office dock. See comments for Channel and Data Rate.

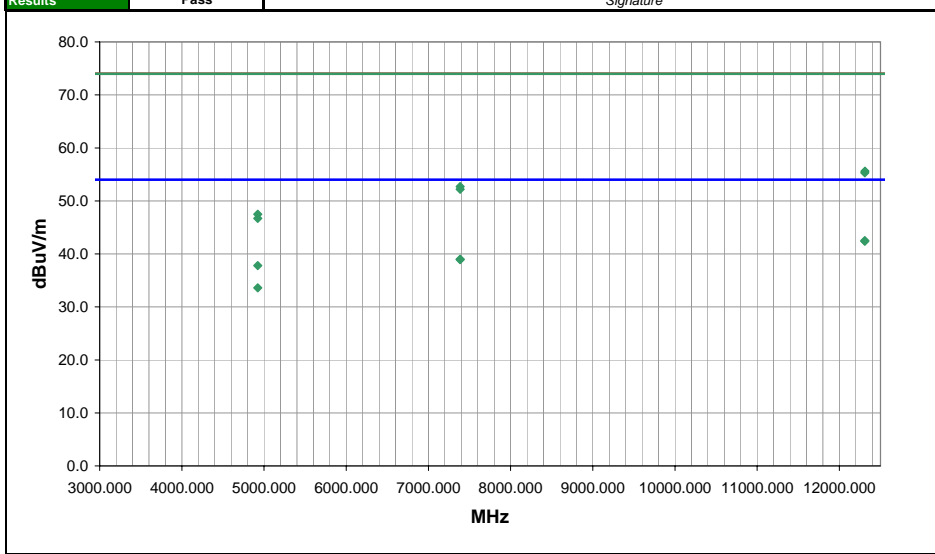
EUT OPERATING MODES

TX High channel 802.11b, 1Mbps

DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	16
Configuration #	2
Results	Pass

Signature *David Divergigelis*



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
12309.770	25.0	17.5	269.0	1.0	3.0	0.0	H-Horn	AV	0.0	42.5	54.0	-11.5	TX High channel, 1Mbps, EUT Typical position
12309.890	24.9	17.5	360.0	1.8	3.0	0.0	V-Horn	AV	0.0	42.4	54.0	-11.6	TX High channel, 1Mbps, EUT Typical position
7385.395	24.7	14.3	360.0	1.0	3.0	0.0	V-Horn	AV	0.0	39.0	54.0	-15.0	TX High channel, 1Mbps, EUT Typical position
7386.117	24.6	14.3	0.0	2.0	3.0	0.0	H-Horn	AV	0.0	38.9	54.0	-15.1	TX High channel, 1Mbps, EUT Typical position
4923.960	30.0	7.8	191.0	1.0	3.0	0.0	H-Horn	AV	0.0	37.8	54.0	-16.2	TX High channel, 1Mbps, EUT Typical position
12310.340	38.1	17.5	269.0	1.0	3.0	0.0	H-Horn	PK	0.0	55.6	74.0	-18.4	TX High channel, 1Mbps, EUT Typical position
12309.830	37.8	17.5	360.0	1.8	3.0	0.0	V-Horn	PK	0.0	55.3	74.0	-18.7	TX High channel, 1Mbps, EUT Typical position
4923.905	25.8	7.8	266.0	1.0	3.0	0.0	V-Horn	AV	0.0	33.6	54.0	-20.4	TX High channel, 1Mbps, EUT Typical position
7386.220	38.4	14.3	360.0	1.0	3.0	0.0	V-Horn	PK	0.0	52.7	74.0	-21.3	TX High channel, 1Mbps, EUT Typical position
7385.610	37.9	14.3	0.0	2.0	3.0	0.0	H-Horn	PK	0.0	52.2	74.0	-21.8	TX High channel, 1Mbps, EUT Typical position
4923.517	39.7	7.8	191.0	1.0	3.0	0.0	H-Horn	PK	0.0	47.5	74.0	-26.5	TX High channel, 1Mbps, EUT Typical position
4923.900	38.9	7.8	266.0	1.0	3.0	0.0	V-Horn	PK	0.0	46.7	74.0	-27.3	TX High channel, 1Mbps, EUT Typical position

EUT: IX-WL3945 in the IX750	Work Order: SPT0060
Serial Number: Unknown	Date: 06/19/07
Customer: Spectrum Technology	Temperature: 24°C
Attendees: Rod Munro	Humidity: 32%
Project: None	Barometric Pres.: 30.17
Tested by: David Divergigelis	Power: 120VAC/60Hz
	Job Site: EV01

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

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

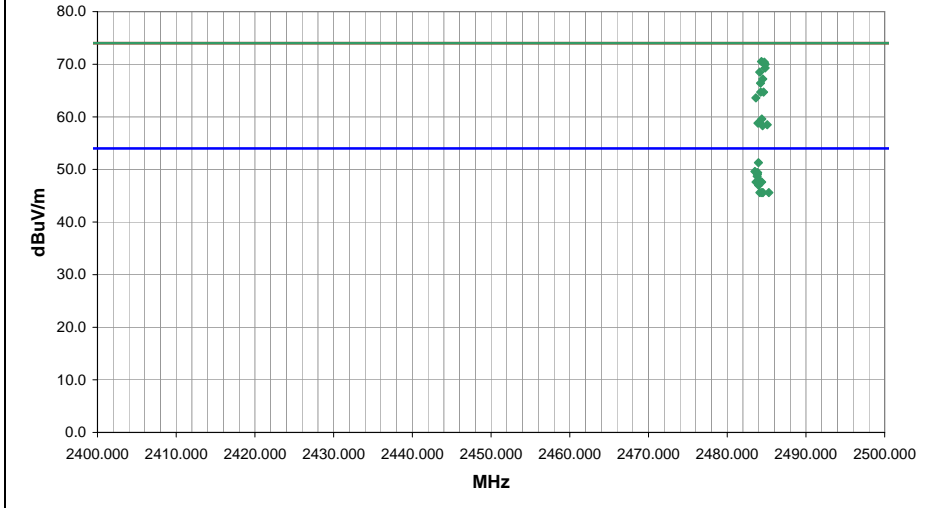
COMMENTS
Auxiliary antenna. Office dock. See comments for Channel and Data Rate.

EUT OPERATING MODES
TX High channel 802.11(b)(g)

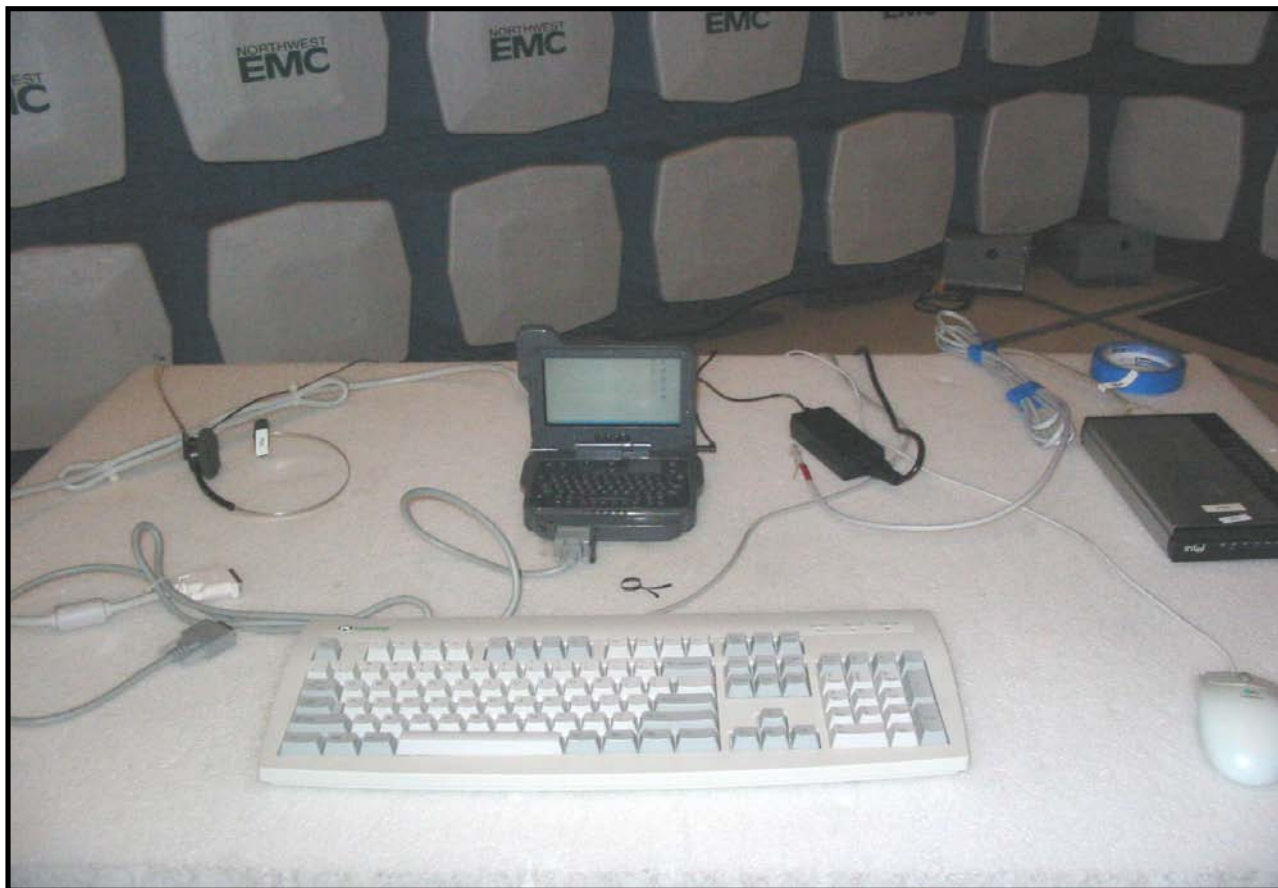
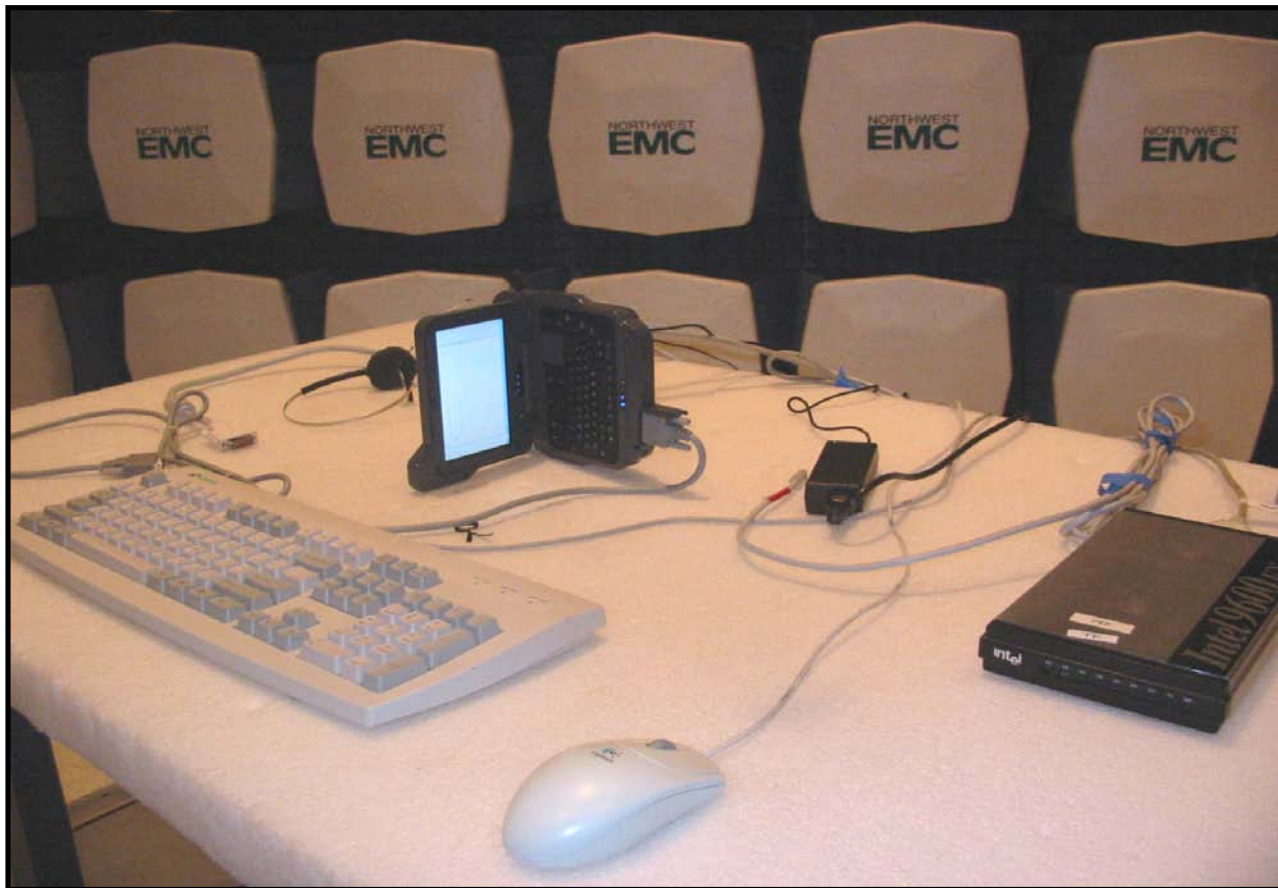
DEVIATIONS FROM TEST STANDARD
No deviations.

Run #	17
Configuration #	2
Results	Pass

Signature *[Handwritten 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
2483.965	30.9	0.4	304.0	1.0	3.0	20.0	V-Horn	AV	0.0	51.3	54.0	-2.7	TX High channel, 6Mbps, EUT Typical position
2484.357	50.1	0.4	12.0	1.0	3.0	20.0	H-Horn	PK	0.0	70.5	74.0	-3.5	TX High channel, 6Mbps, EUT on side
2484.710	50.0	0.4	11.0	1.0	3.0	20.0	H-Horn	PK	0.0	70.4	74.0	-3.6	TX High channel, 6Mbps, EUT display horizontal
2484.817	49.6	0.4	304.0	1.0	3.0	20.0	V-Horn	PK	0.0	70.0	74.0	-4.0	TX High channel, 6Mbps, EUT Typical position
2483.507	29.2	0.4	326.0	1.0	3.0	20.0	V-Horn	AV	0.0	49.6	54.0	-4.4	TX High channel, 36Mbps, EUT Typical position
2483.859	29.0	0.4	12.0	1.0	3.0	20.0	H-Horn	AV	0.0	49.4	54.0	-4.6	TX High channel, 6Mbps, EUT on side
2484.813	48.9	0.4	291.0	1.0	3.0	20.0	V-Horn	PK	0.0	69.3	74.0	-4.7	TX High channel, 54Mbps, EUT Typical position
2483.835	28.7	0.4	11.0	1.0	3.0	20.0	H-Horn	AV	0.0	49.1	54.0	-4.9	TX High channel, 6Mbps, EUT display horizontal
2483.808	28.3	0.4	291.0	1.0	3.0	20.0	V-Horn	AV	0.0	48.7	54.0	-5.3	TX High channel, 54Mbps, EUT Typical position
2484.120	48.1	0.4	326.0	1.0	3.0	20.0	V-Horn	PK	0.0	68.5	74.0	-5.5	TX High channel, 36Mbps, EUT Typical position
2484.167	27.4	0.4	186.0	1.0	3.0	20.0	H-Horn	AV	0.0	47.8	54.0	-6.2	TX High channel, 6Mbps, EUT Typical position
2483.866	27.3	0.4	272.0	1.0	3.0	20.0	V-Horn	AV	0.0	47.7	54.0	-6.3	TX High channel, 6Mbps, EUT on side
2483.663	27.2	0.4	42.0	1.9	3.0	20.0	H-Horn	AV	0.0	47.6	54.0	-6.4	TX High channel, 36Mbps, EUT Typical position
2484.366	27.2	0.4	271.0	1.0	3.0	20.0	V-Horn	AV	0.0	47.6	54.0	-6.4	TX High channel, 6Mbps, EUT display horizontal
2484.505	46.8	0.4	271.0	1.0	3.0	20.0	V-Horn	PK	0.0	67.2	74.0	-6.8	TX High channel, 6Mbps, EUT display horizontal
2483.980	26.6	0.4	187.0	1.0	3.0	20.0	H-Horn	AV	0.0	47.0	54.0	-7.0	TX High channel, 54Mbps, EUT Typical position
2484.235	46.0	0.4	272.0	1.0	3.0	20.0	V-Horn	PK	0.0	66.4	74.0	-7.6	TX High channel, 6Mbps, EUT on side
2484.143	25.2	0.4	78.0	1.0	3.0	20.0	V-Horn	AV	0.0	45.6	54.0	-8.4	TX High channel, 1Mbps, EUT Typical position
2484.386	25.2	0.4	359.0	2.2	3.0	20.0	V-Horn	AV	0.0	45.6	54.0	-8.4	TX High channel, 11Mbps, EUT Typical position
2484.542	25.2	0.4	105.0	1.0	3.0	20.0	H-Horn	AV	0.0	45.6	54.0	-8.4	TX High channel, 1Mbps, EUT Typical position





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

MODES OF OPERATION

Transmitting 802.11(a), 6 Mbps, low channel 5725 MHz - 5825 MHz band
Transmitting 802.11(a), 6 Mbps, mid channel 5725 MHz - 5825 MHz band
Transmitting 802.11(a), 6 Mbps, high channel 5725 MHz - 5825 MHz band
Transmitting 802.11(a), 6 Mbps, low channel 5250 MHz - 5350 MHz band
Transmitting 802.11(a), 6 Mbps, high channel 5250 MHz - 5350 MHz band
Transmitting 802.11(a), 6 Mbps, low channel 5150 MHz - 5250 MHz band
Transmitting 802.11(a), 6 Mbps, high channel 5150 MHz - 5250 MHz band

POWER SETTINGS INVESTIGATED

120VAC/60Hz

SAMPLE CALCULATIONS

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

TEST EQUIPMENT

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

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 50 Ω measuring port is terminated by a 50 Ω EMI meter or a 50 Ω resistive load. All 50 Ω measuring ports of the LISN are terminated by 50 Ω .

EMC

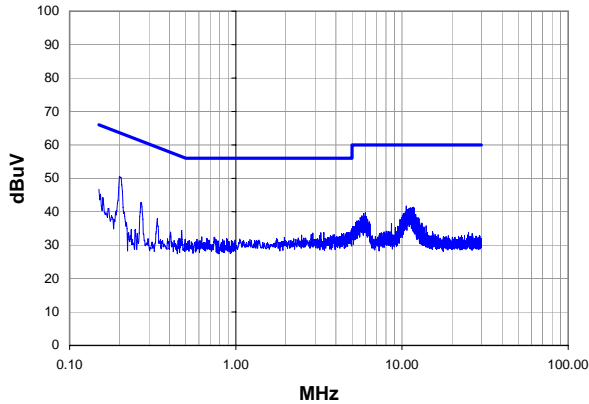
AC Powerline Conducted Emissions

Work Order:	SPTE0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(a), 6 Mbps, low channel 5150 MHz - 5250 MHz band			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

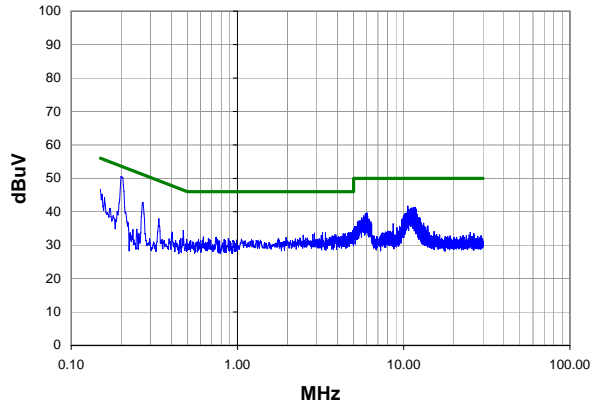
Test Specifications FCC 15.107:2006	Class B	Test Method ANSI C63.4:2003
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Run #	13	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.199	29.5	1.0	50.5	63.6	-13.1
10.600	21.2	0.5	41.7	60.0	-18.3
0.269	21.8	1.0	42.8	61.1	-18.4
11.750	20.9	0.5	41.4	60.0	-18.6
11.550	20.8	0.5	41.3	60.0	-18.7
11.210	20.7	0.5	41.2	60.0	-18.8
11.480	20.6	0.5	41.1	60.0	-18.9
11.820	20.6	0.5	41.1	60.0	-18.9
11.140	20.5	0.5	41.0	60.0	-19.0
11.000	20.4	0.5	40.9	60.0	-19.1
11.610	20.4	0.5	40.9	60.0	-19.1
0.150	24.7	2.0	46.7	66.0	-19.3
10.870	20.2	0.5	40.7	60.0	-19.3
10.940	20.2	0.5	40.7	60.0	-19.3
11.880	20.2	0.5	40.7	60.0	-19.3
11.410	20.1	0.5	40.6	60.0	-19.4
11.680	20.1	0.5	40.6	60.0	-19.4
10.730	20.0	0.5	40.5	60.0	-19.5
11.340	19.9	0.5	40.4	60.0	-19.6
10.670	19.7	0.5	40.2	60.0	-19.8

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.199	29.5	1.0	50.5	53.6	-3.1
10.600	21.2	0.5	41.7	50.0	-8.3
0.269	21.8	1.0	42.8	51.1	-8.4
11.750	20.9	0.5	41.4	50.0	-8.6
11.550	20.8	0.5	41.3	50.0	-8.7
11.210	20.7	0.5	41.2	50.0	-8.8
11.480	20.6	0.5	41.1	50.0	-8.9
11.820	20.6	0.5	41.1	50.0	-8.9
11.140	20.5	0.5	41.0	50.0	-9.0
11.000	20.4	0.5	40.9	50.0	-9.1
11.610	20.4	0.5	40.9	50.0	-9.1
0.150	24.7	2.0	46.7	56.0	-9.3
10.870	20.2	0.5	40.7	50.0	-9.3
10.940	20.2	0.5	40.7	50.0	-9.3
11.880	20.2	0.5	40.7	50.0	-9.3
11.410	20.1	0.5	40.6	50.0	-9.4
11.680	20.1	0.5	40.6	50.0	-9.4
10.730	20.0	0.5	40.5	50.0	-9.5
11.340	19.9	0.5	40.4	50.0	-9.6
10.670	19.7	0.5	40.2	50.0	-9.8

EMC

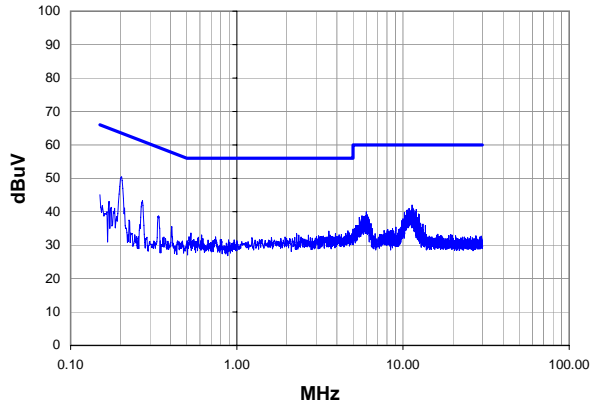
AC Powerline Conducted Emissions

Work Order:	SPTE0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(a), 6 Mbps, low channel 5150 MHz - 5250 MHz band			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

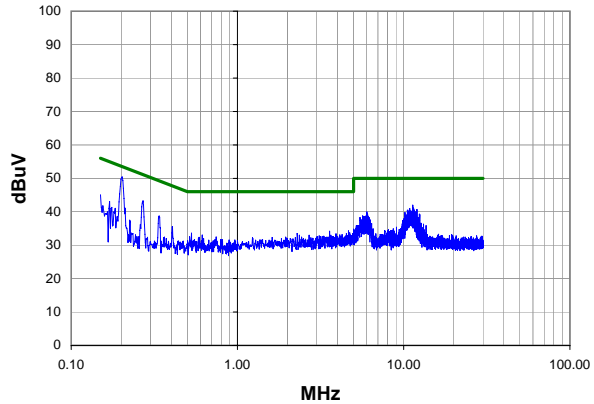
Test Specifications FCC 15.107:2006	Class B	Test Method ANSI C63.4:2003
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Run #	14	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.203	29.4	1.0	50.4	63.5	-13.1
0.271	22.3	1.0	43.3	61.1	-17.8
11.340	21.5	0.5	42.0	60.0	-18.0
11.470	20.6	0.5	41.1	60.0	-18.9
10.870	20.5	0.5	41.0	60.0	-19.0
12.020	20.2	0.5	40.7	60.0	-19.3
10.600	20.0	0.5	40.5	60.0	-19.5
11.610	20.0	0.5	40.5	60.0	-19.5
10.530	19.9	0.5	40.4	60.0	-19.6
11.000	19.8	0.5	40.3	60.0	-19.7
11.140	19.7	0.5	40.2	60.0	-19.8
11.270	19.7	0.5	40.2	60.0	-19.8
11.540	19.7	0.5	40.2	60.0	-19.8
6.010	19.5	0.5	40.0	60.0	-20.0
11.410	19.5	0.5	40.0	60.0	-20.0
11.820	19.5	0.5	40.0	60.0	-20.0
10.730	19.4	0.5	39.9	60.0	-20.1
10.800	19.4	0.5	39.9	60.0	-20.1
10.940	19.4	0.5	39.9	60.0	-20.1
10.190	19.3	0.5	39.8	60.0	-20.2

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.203	29.4	1.0	50.4	53.5	-3.1
0.271	22.3	1.0	43.3	51.1	-7.8
11.340	21.5	0.5	42.0	50.0	-8.0
11.470	20.6	0.5	41.1	50.0	-8.9
10.870	20.5	0.5	41.0	50.0	-9.0
12.020	20.2	0.5	40.7	50.0	-9.3
10.600	20.0	0.5	40.5	50.0	-9.5
11.610	20.0	0.5	40.5	50.0	-9.5
10.530	19.9	0.5	40.4	50.0	-9.6
11.000	19.8	0.5	40.3	50.0	-9.7
11.140	19.7	0.5	40.2	50.0	-9.8
11.270	19.7	0.5	40.2	50.0	-9.8
11.540	19.7	0.5	40.2	50.0	-9.8
6.010	19.5	0.5	40.0	50.0	-10.0
11.410	19.5	0.5	40.0	50.0	-10.0
11.820	19.5	0.5	40.0	50.0	-10.0
10.730	19.4	0.5	39.9	50.0	-10.1
10.800	19.4	0.5	39.9	50.0	-10.1
10.940	19.4	0.5	39.9	50.0	-10.1
10.190	19.3	0.5	39.8	50.0	-10.2

EMC

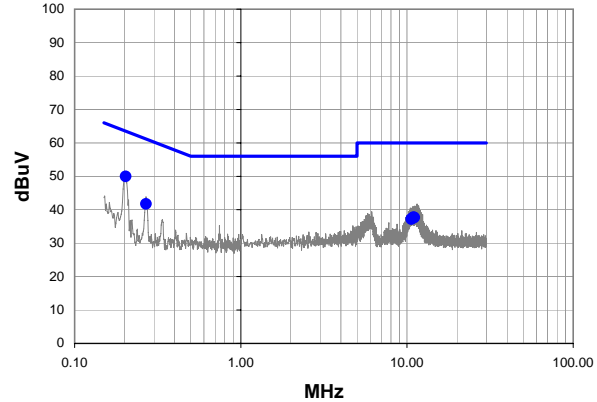
AC Powerline Conducted Emissions

Work Order:	SPT0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(a), 6 Mbps, high channel 5150 MHz - 5250 MHz band			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

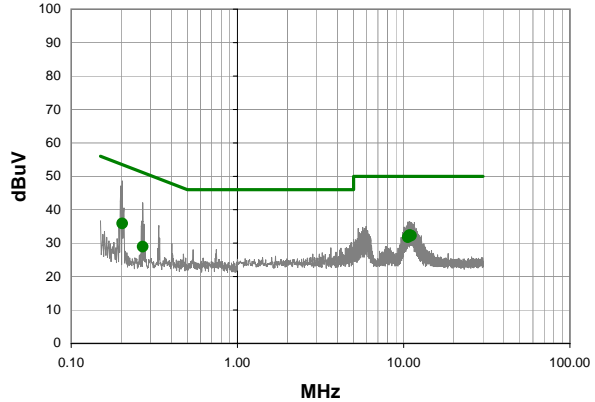
Test Specifications FCC 15.107:2006	Class B	Test Method ANSI C63.4:2003
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Run #	15	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.203	29.0	1.0	50.0	63.5	-13.5
0.269	20.8	1.0	41.8	61.1	-19.4
10.934	17.3	0.5	37.8	60.0	-22.2
11.070	17.2	0.5	37.7	60.0	-22.3
10.800	17.0	0.5	37.5	60.0	-22.5
10.600	16.7	0.5	37.2	60.0	-22.8

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.203	14.9	1.0	35.9	53.5	-17.6
10.800	11.9	0.5	32.4	50.0	-17.6
10.934	11.9	0.5	32.4	50.0	-17.6
11.070	11.8	0.5	32.3	50.0	-17.7
10.600	11.3	0.5	31.8	50.0	-18.2
0.269	8.0	1.0	29.0	51.1	-22.2

EMC

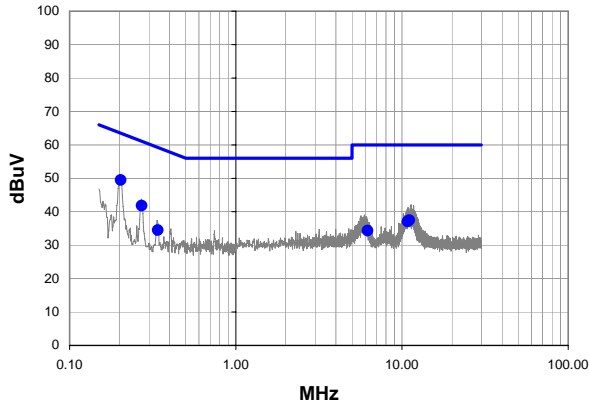
AC Powerline Conducted Emissions

Work Order:	SPT0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(a), 6 Mbps, high channel 5150 MHz - 5250 MHz band			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

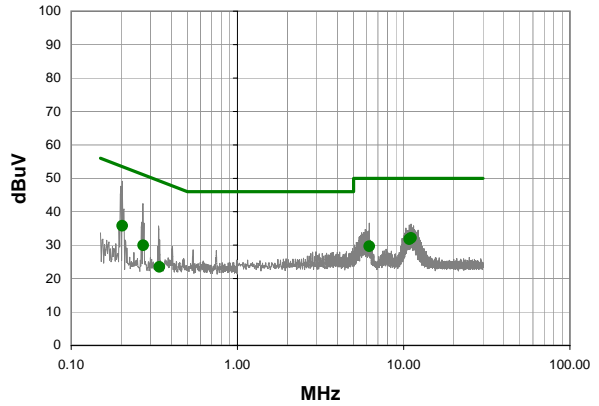
Test Specifications FCC 15.107:2006	Class B	Test Method ANSI C63.4:2003
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Run #	16	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.203	28.5	1.0	49.5	63.5	-14.0
0.271	20.9	1.0	41.9	61.1	-19.2
11.070	17.0	0.5	37.5	60.0	-22.5
10.800	16.6	0.5	37.1	60.0	-22.9
0.339	13.6	0.9	34.5	59.2	-24.7
6.210	13.9	0.5	34.4	60.0	-25.6

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.203	14.8	1.0	35.8	53.5	-17.7
11.070	11.7	0.5	32.2	50.0	-17.8
10.800	11.3	0.5	31.8	50.0	-18.2
6.210	9.2	0.5	29.7	50.0	-20.3
0.271	9.0	1.0	30.0	51.1	-21.1
0.339	2.6	0.9	23.5	49.2	-25.7

EMC

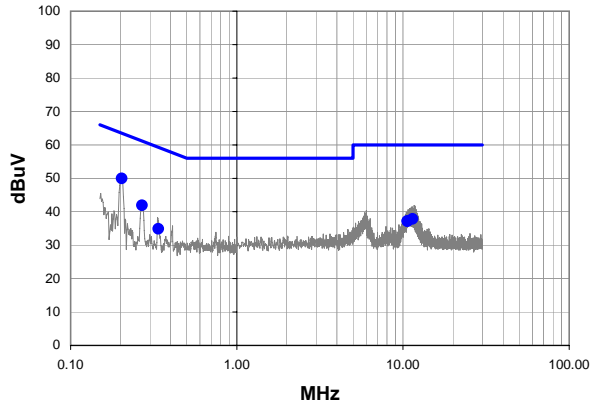
AC Powerline Conducted Emissions

Work Order:	SPT0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(a), 6 Mbps, low channel 5250 MHz - 5350 MHz band			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

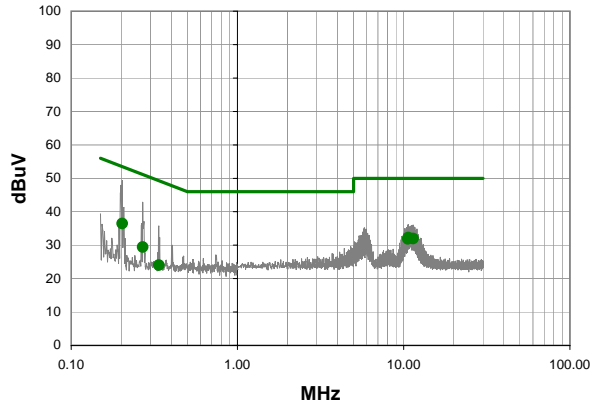
Test Specifications FCC 15.107:2006	Class B	Test Method ANSI C63.4:2003
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Run #	17	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit						Average Data - vs - Average Limit					
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)	Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.203	29.0	1.0	50.0	63.5	-13.5	0.203	15.5	1.0	36.5	53.5	-17.0
0.269	21.0	1.0	42.0	61.1	-19.2	10.664	11.8	0.5	32.3	50.0	-17.7
11.408	17.4	0.5	37.9	60.0	-22.1	11.408	11.5	0.5	32.0	50.0	-18.0
10.598	16.7	0.5	37.2	60.0	-22.8	10.598	11.4	0.5	31.9	50.0	-18.1
10.664	16.7	0.5	37.2	60.0	-22.8	0.269	8.5	1.0	29.5	51.1	-21.7
0.337	14.0	0.9	34.9	59.3	-24.4	0.337	3.1	0.9	24.0	49.3	-25.3

EMC

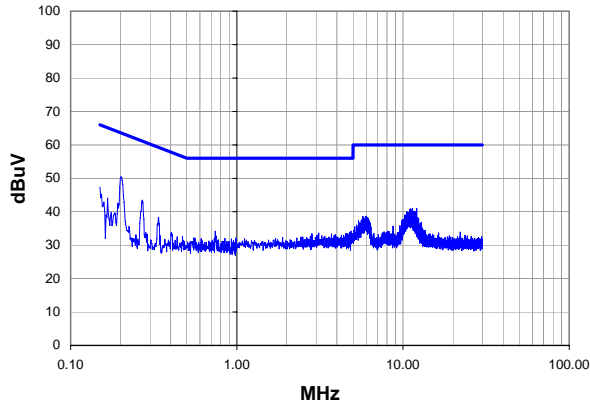
AC Powerline Conducted Emissions

Work Order:	SPTE0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(a), 6 Mbps, low channel 5250 MHz - 5350 MHz band			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

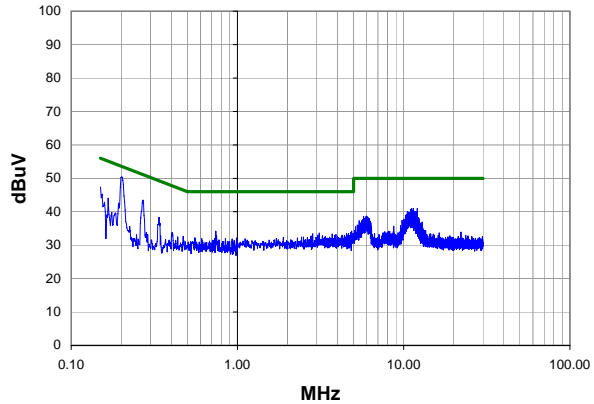
Test Specifications FCC 15.107:2006	Class B	Test Method ANSI C63.4:2003
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Run #	18	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.201	29.4	1.0	50.4	63.6	-13.2
0.271	22.5	1.0	43.5	61.1	-17.6
0.150	25.4	2.0	47.4	66.0	-18.6
11.410	20.5	0.5	41.0	60.0	-19.0
12.080	20.5	0.5	41.0	60.0	-19.0
11.140	20.4	0.5	40.9	60.0	-19.1
11.000	20.2	0.5	40.7	60.0	-19.3
11.270	19.8	0.5	40.3	60.0	-19.7
11.200	19.7	0.5	40.2	60.0	-19.8
11.540	19.7	0.5	40.2	60.0	-19.8
11.690	19.6	0.5	40.1	60.0	-19.9
11.880	19.6	0.5	40.1	60.0	-19.9
10.530	19.5	0.5	40.0	60.0	-20.0
11.340	19.5	0.5	40.0	60.0	-20.0
10.660	19.4	0.5	39.9	60.0	-20.1
11.470	19.4	0.5	39.9	60.0	-20.1
10.730	19.3	0.5	39.8	60.0	-20.2
10.800	19.3	0.5	39.8	60.0	-20.2
11.070	19.2	0.5	39.7	60.0	-20.3
11.610	19.2	0.5	39.7	60.0	-20.3

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.201	29.4	1.0	50.4	53.6	-3.2
0.271	22.5	1.0	43.5	51.1	-7.6
0.150	25.4	2.0	47.4	56.0	-8.6
11.410	20.5	0.5	41.0	50.0	-9.0
12.080	20.5	0.5	41.0	50.0	-9.0
11.140	20.4	0.5	40.9	50.0	-9.1
11.000	20.2	0.5	40.7	50.0	-9.3
11.270	19.8	0.5	40.3	50.0	-9.7
11.200	19.7	0.5	40.2	50.0	-9.8
11.540	19.7	0.5	40.2	50.0	-9.8
11.690	19.6	0.5	40.1	50.0	-9.9
11.880	19.6	0.5	40.1	50.0	-9.9
10.530	19.5	0.5	40.0	50.0	-10.0
11.340	19.5	0.5	40.0	50.0	-10.0
10.660	19.4	0.5	39.9	50.0	-10.1
11.470	19.4	0.5	39.9	50.0	-10.1
10.730	19.3	0.5	39.8	50.0	-10.2
10.800	19.3	0.5	39.8	50.0	-10.2
11.070	19.2	0.5	39.7	50.0	-10.3
11.610	19.2	0.5	39.7	50.0	-10.3

EMC

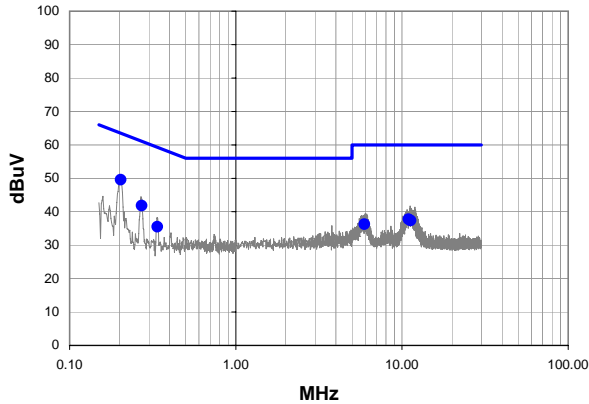
AC Powerline Conducted Emissions

Work Order:	SPT0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(a), 6 Mbps, high channel 5250 MHz - 5350 MHz band			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

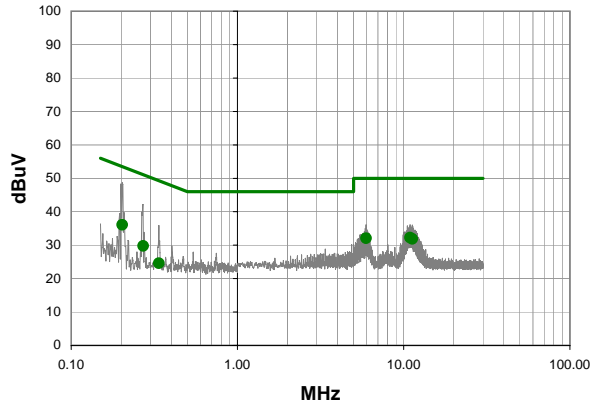
Test Specifications FCC 15.107:2006	Class B	Test Method ANSI C63.4:2003
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Run #	19	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.203	28.6	1.0	49.6	63.5	-13.9
0.271	20.9	1.0	41.9	61.1	-19.2
10.934	17.3	0.5	37.8	60.0	-22.2
11.274	16.9	0.5	37.4	60.0	-22.6
5.940	15.8	0.5	36.3	60.0	-23.7
0.337	14.6	0.9	35.5	59.3	-23.8

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.203	15.1	1.0	36.1	53.5	-17.4
10.934	11.8	0.5	32.3	50.0	-17.7
5.940	11.6	0.5	32.1	50.0	-17.9
11.274	11.4	0.5	31.9	50.0	-18.1
0.271	8.8	1.0	29.8	51.1	-21.3
0.337	3.7	0.9	24.6	49.3	-24.7

EMC

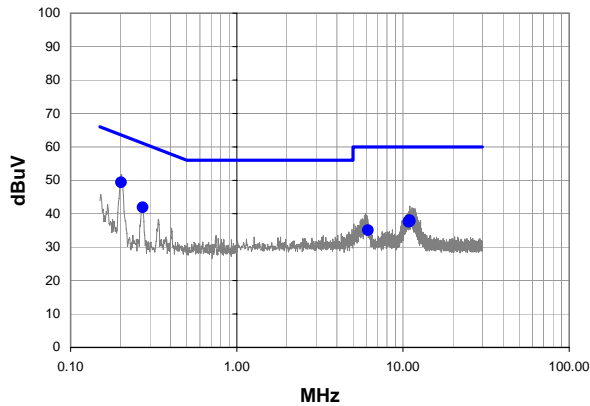
AC Powerline Conducted Emissions

Work Order:	SPT0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(a), 6 Mbps, high channel 5250 MHz - 5350 MHz band			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

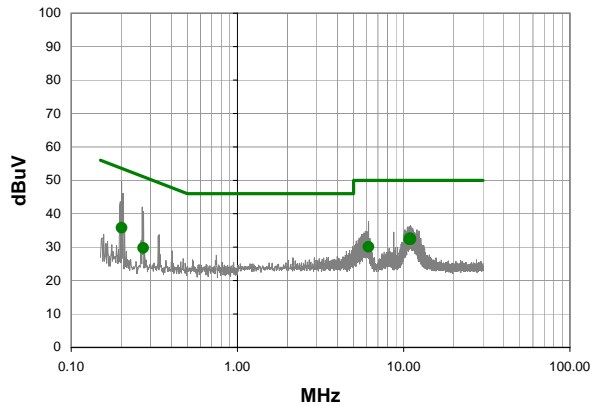
Test Specifications FCC 15.107:2006	Class B	Test Method ANSI C63.4:2003
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Run #	20	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.201	28.4	1.0	49.4	63.6	-14.2
0.271	21.0	1.0	42.0	61.1	-19.1
10.934	17.6	0.5	38.1	60.0	-21.9
11.000	17.3	0.5	37.8	60.0	-22.2
10.800	17.1	0.5	37.6	60.0	-22.4
6.144	14.6	0.5	35.1	60.0	-24.9

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
10.934	12.2	0.5	32.7	50.0	-17.3
10.800	11.9	0.5	32.4	50.0	-17.6
0.201	14.8	1.0	35.8	53.6	-17.8
6.144	9.6	0.5	30.1	50.0	-19.9
0.271	8.8	1.0	29.8	51.1	-21.3

EMC

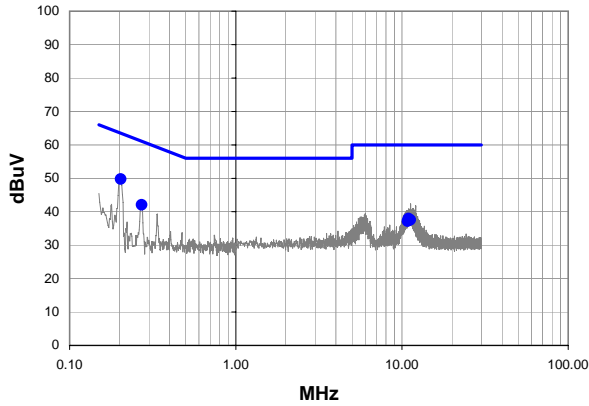
AC Powerline Conducted Emissions

Work Order:	SPT0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(a), 6 Mbps, low channel 5725 MHz - 5825 MHz band			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

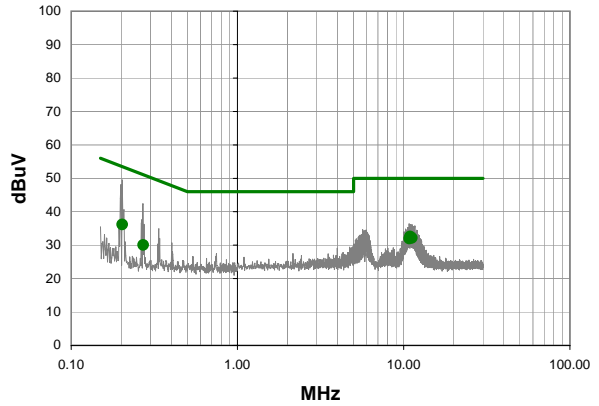
Test Specifications FCC 15.107:2006	Class B	Test Method ANSI C63.4:2003
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Run #	21	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.203	28.8	1.0	49.8	63.5	-13.7
0.271	21.1	1.0	42.1	61.1	-19.0
10.934	17.5	0.5	38.0	60.0	-22.0
11.000	17.1	0.5	37.6	60.0	-22.4
11.204	17.1	0.5	37.6	60.0	-22.4
10.798	16.7	0.5	37.2	60.0	-22.8

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.203	15.2	1.0	36.2	53.5	-17.3
10.934	12.1	0.5	32.6	50.0	-17.4
11.000	11.9	0.5	32.4	50.0	-17.6
11.204	11.7	0.5	32.2	50.0	-17.8
10.798	11.5	0.5	32.0	50.0	-18.0
0.271	9.1	1.0	30.1	51.1	-21.0

EMC

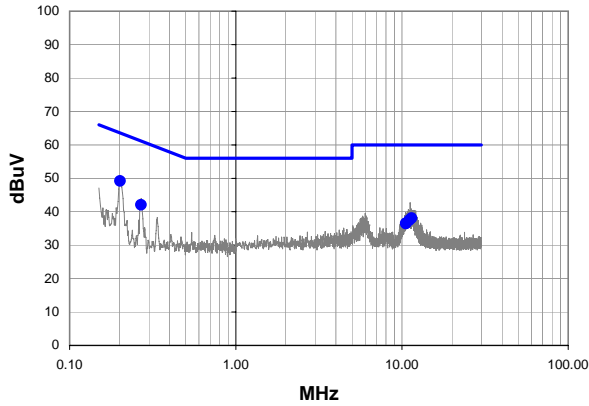
AC Powerline Conducted Emissions

Work Order:	SPT0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(a), 6 Mbps, low channel 5725 MHz - 5825 MHz band			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

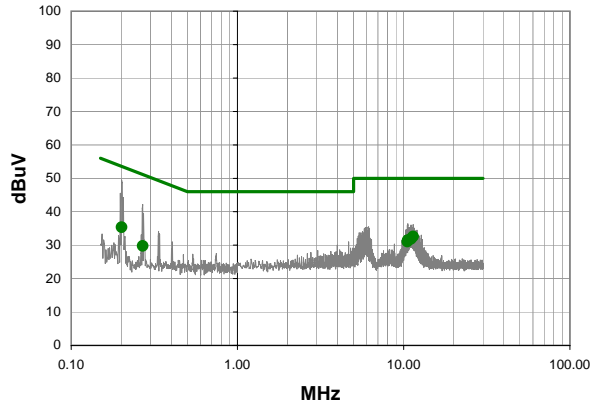
Test Specifications FCC 15.107:2006	Class B	Test Method ANSI C63.4:2003
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Run #	22	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.201	28.2	1.0	49.2	63.6	-14.4
0.269	21.1	1.0	42.1	61.1	-19.1
11.408	17.6	0.5	38.1	60.0	-21.9
11.070	17.0	0.5	37.5	60.0	-22.5
10.596	16.1	0.5	36.6	60.0	-23.4
10.530	16.0	0.5	36.5	60.0	-23.5

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
11.408	12.1	0.5	32.6	50.0	-17.4
11.070	11.4	0.5	31.9	50.0	-18.1
0.201	14.4	1.0	35.4	53.6	-18.2
10.596	11.0	0.5	31.5	50.0	-18.5
10.530	10.6	0.5	31.1	50.0	-18.9
0.269	8.8	1.0	29.8	51.1	-21.4

EMC

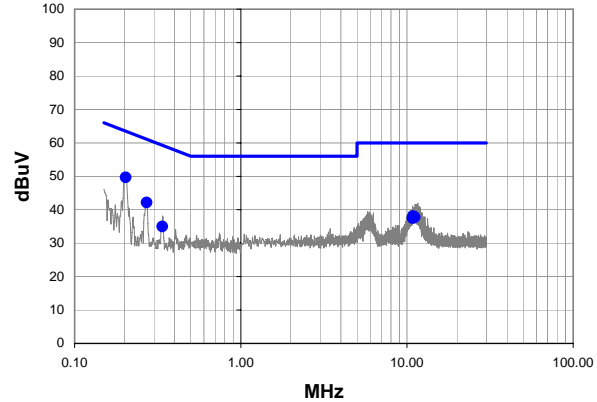
AC Powerline Conducted Emissions

Work Order:	SPT0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(a), 6 Mbps, mid channel 5725 MHz - 5825 MHz band			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

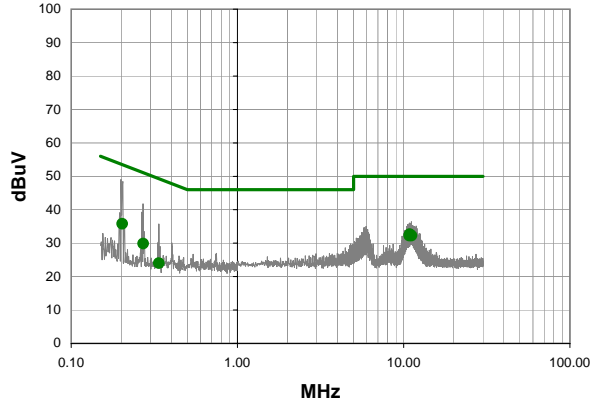
Test Specifications FCC 15.107:2006	Class B	Test Method ANSI C63.4:2003
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Run #	23	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit						Average Data - vs - Average Limit					
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)	Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.203	28.7	1.0	49.7	63.5	-13.8	10.868	12.2	0.5	32.7	50.0	-17.3
0.271	21.2	1.0	42.2	61.1	-18.9	0.203	14.8	1.0	35.8	53.5	-17.7
10.868	17.6	0.5	38.1	60.0	-21.9	10.800	11.8	0.5	32.3	50.0	-17.7
11.138	17.3	0.5	37.8	60.0	-22.2	11.138	11.8	0.5	32.3	50.0	-17.7
10.800	17.0	0.5	37.5	60.0	-22.5	0.271	8.9	1.0	29.9	51.1	-21.2
0.337	14.1	0.9	35.0	59.3	-24.3	0.337	3.1	0.9	24.0	49.3	-25.3

EMC

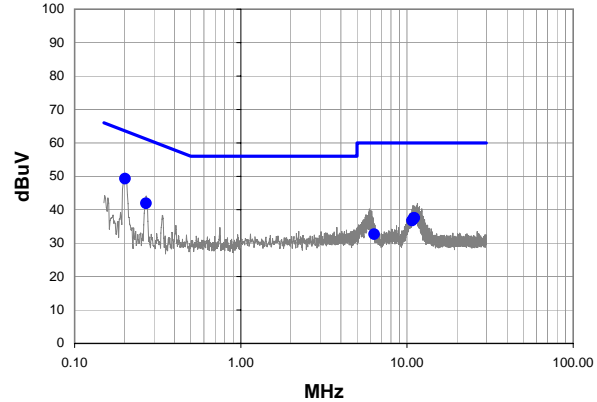
AC Powerline Conducted Emissions

Work Order:	SPT0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(a), 6 Mbps, mid channel 5725 MHz - 5825 MHz band			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

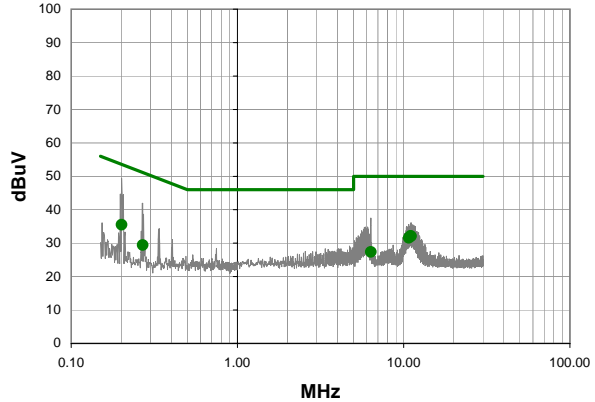
Test Specifications FCC 15.107:2006	Class B	Test Method ANSI C63.4:2003
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Run #	24	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit						Average Data - vs - Average Limit					
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)	Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.201	28.3	1.0	49.3	63.6	-14.3	11.000	11.7	0.5	32.2	50.0	-17.8
0.269	21.0	1.0	42.0	61.1	-19.2	11.070	11.6	0.5	32.1	50.0	-17.9
11.070	17.1	0.5	37.6	60.0	-22.4	0.201	14.5	1.0	35.5	53.6	-18.1
11.000	17.0	0.5	37.5	60.0	-22.5	10.730	11.1	0.5	31.6	50.0	-18.4
10.730	16.3	0.5	36.8	60.0	-23.2	0.269	8.5	1.0	29.5	51.1	-21.7
6.346	12.2	0.5	32.7	60.0	-27.3	6.346	6.9	0.5	27.4	50.0	-22.6

EMC

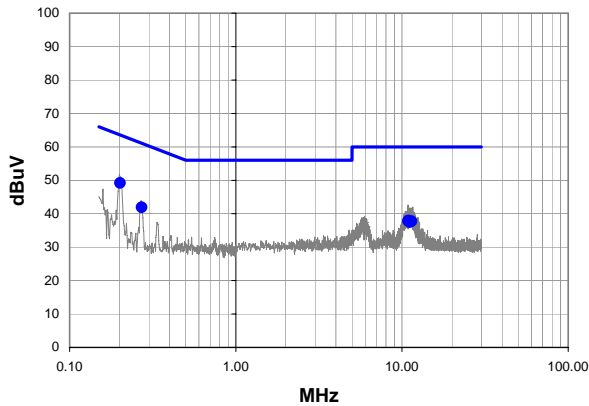
AC Powerline Conducted Emissions

Work Order:	SPT0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(a), 6 Mbps, high channel 5725 MHz - 5825 MHz band			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

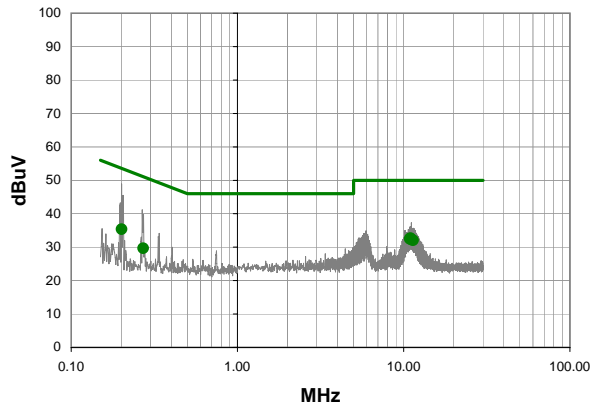
Test Specifications FCC 15.107:2006	Class B	Test Method ANSI C63.4:2003
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Run #	25	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.201	28.2	1.0	49.2	63.6	-14.4
0.271	21.0	1.0	42.0	61.1	-19.1
11.000	17.5	0.5	38.0	60.0	-22.0
10.868	17.4	0.5	37.9	60.0	-22.1
11.408	17.3	0.5	37.8	60.0	-22.2
11.138	17.0	0.5	37.5	60.0	-22.5

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
11.000	12.2	0.5	32.7	50.0	-17.3
10.868	12.0	0.5	32.5	50.0	-17.5
11.138	11.8	0.5	32.3	50.0	-17.7
11.408	11.6	0.5	32.1	50.0	-17.9
0.201	14.4	1.0	35.4	53.6	-18.2
0.271	8.7	1.0	29.7	51.1	-21.4

EMC

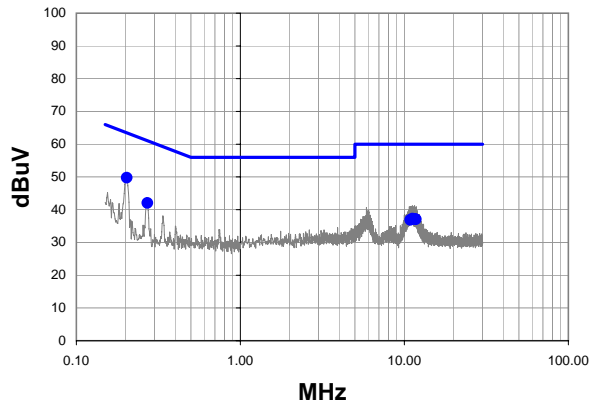
AC Powerline Conducted Emissions

Work Order:	SPT0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(a), 6 Mbps, high channel 5725 MHz - 5825 MHz band			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

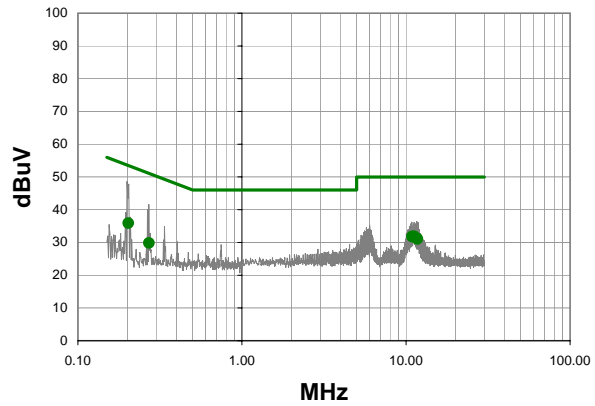
Test Specifications FCC 15.107:2006	Class B	Test Method ANSI C63.4:2003
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Run #	26	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit

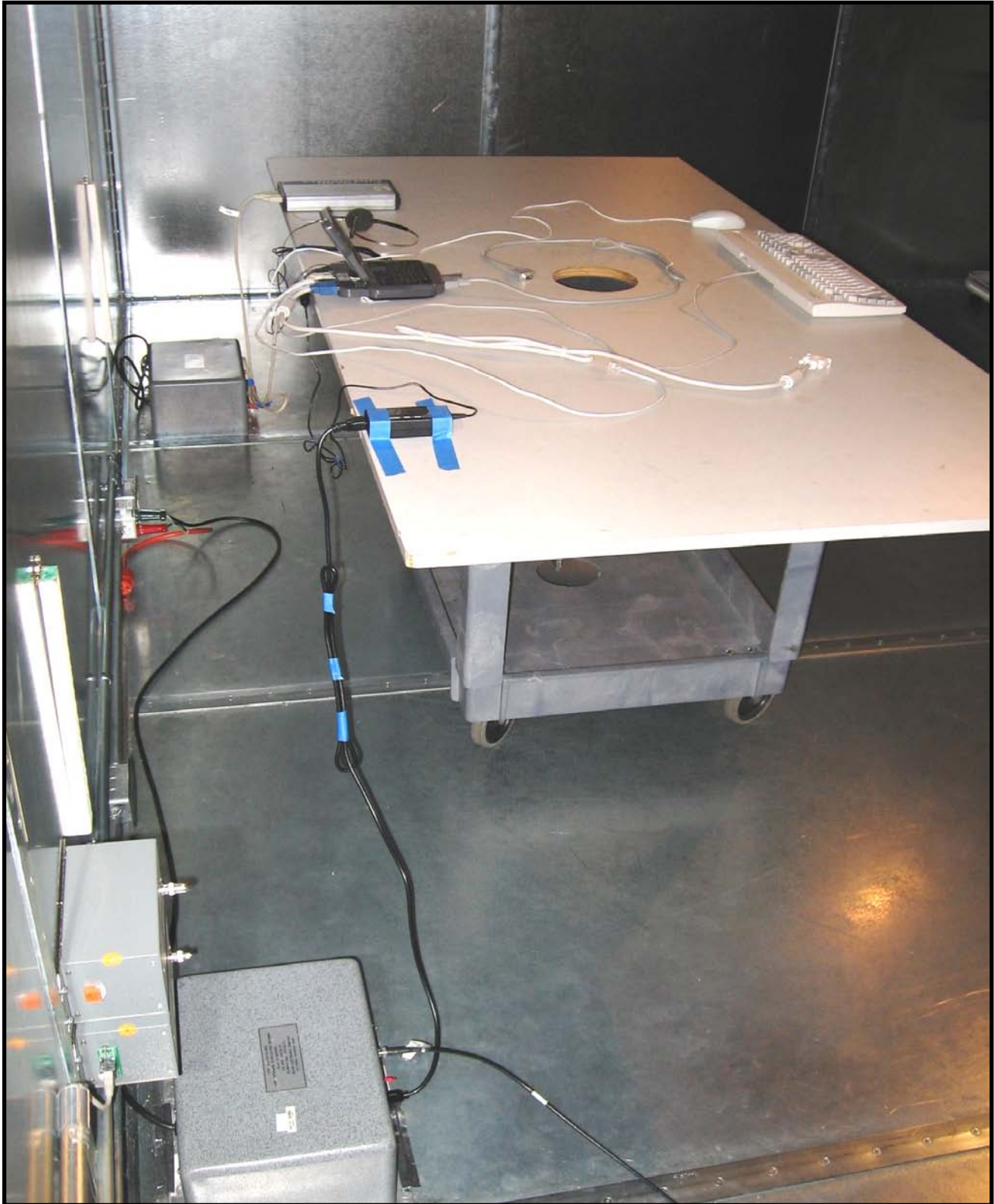


Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit						Average Data - vs - Average Limit					
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)	Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.203	28.8	1.0	49.8	63.5	-13.7	0.203	14.9	1.0	35.9	53.5	-17.6
0.271	21.1	1.0	42.1	61.1	-19.0	11.204	11.4	0.5	31.9	50.0	-18.1
11.204	16.8	0.5	37.3	60.0	-22.7	10.868	11.3	0.5	31.8	50.0	-18.2
11.610	16.7	0.5	37.2	60.0	-22.8	11.610	10.8	0.5	31.3	50.0	-18.7
11.744	16.6	0.5	37.1	60.0	-22.9	11.744	10.6	0.5	31.1	50.0	-18.9
10.868	16.4	0.5	36.9	60.0	-23.1	0.271	8.9	1.0	29.9	51.1	-21.2





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

MODES OF OPERATION

Transmitting 802.11(g), 6 Mbps, high channel
Transmitting 802.11(g), 6 Mbps, mid channel
Transmitting 802.11(g), 6 Mbps, low channel
Transmitting 802.11(b), 1 Mbps, high channel
Transmitting 802.11(b), 1 Mbps, mid channel
Transmitting 802.11(b), 1 Mbps, low channel

POWER SETTINGS INVESTIGATED

120VAC/60Hz

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	LIQ	12/20/2006	13
Attenuator	Tektronix	011-0059-02	ATC	12/27/2006	13
High Pass Filter	TTE	H97-100K-50-720B	HFX	8/22/2006	13
Receiver	Rohde & Schwartz	ESCI	ARG	12/7/2006	13

MEASUREMENT BANDWIDTHS

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

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

MEASUREMENT UNCERTAINTY

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

TEST DESCRIPTION

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 50 Ω measuring port is terminated by a 50 Ω EMI meter or a 50 Ω resistive load. All 50 Ω measuring ports of the LISN are terminated by 50 Ω .

EMC

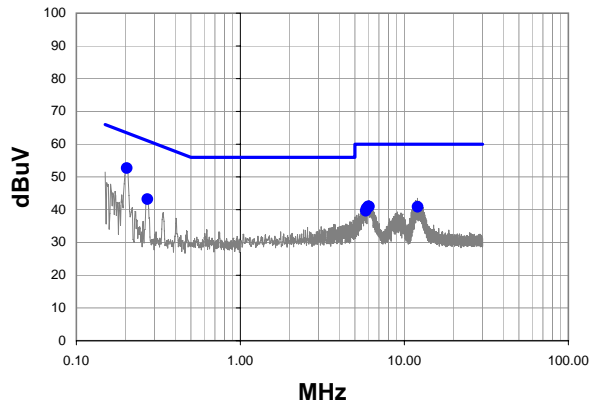
AC Powerline Conducted Emissions

Work Order:	SPT0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(b), 1 Mbps, low channel			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

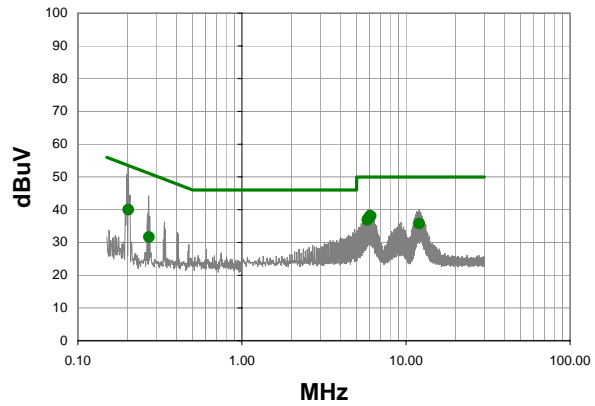
Test Specifications FCC 15.207:2006	Test Method ANSI C63.4:2003
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Run #	1	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit						Average Data - vs - Average Limit					
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)	Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.203	31.7	1.0	52.7	63.5	-10.8	6.088	17.6	0.5	38.1	50.0	-11.9
0.271	22.3	1.0	43.3	61.1	-17.8	6.022	17.5	0.5	38.0	50.0	-12.0
6.022	20.5	0.5	41.0	60.0	-19.0	5.888	16.9	0.5	37.4	50.0	-12.6
6.088	20.5	0.5	41.0	60.0	-19.0	5.818	16.4	0.5	36.9	50.0	-13.1
12.042	20.4	0.5	40.9	60.0	-19.1	0.203	19.0	1.0	40.0	53.5	-13.5
5.888	19.9	0.5	40.4	60.0	-19.6	12.042	15.3	0.5	35.8	50.0	-14.2
5.818	19.2	0.5	39.7	60.0	-20.3	0.271	10.7	1.0	31.7	51.1	-19.4

EMC

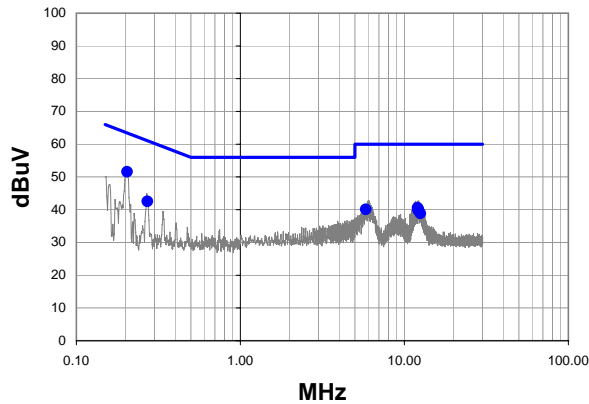
AC Powerline Conducted Emissions

Work Order:	SPT0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(b), 1 Mbps, low channel			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

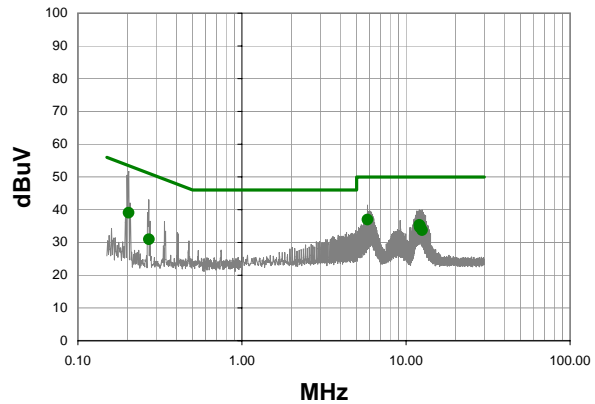
Test Specifications FCC 15.207:2006	Test Method ANSI C63.4:2003
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Run #	2	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit						Average Data - vs - Average Limit					
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)	Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.204	30.6	1.0	51.6	63.4	-11.8	5.824	16.5	0.5	37.0	50.0	-13.0
0.271	21.6	1.0	42.6	61.1	-18.5	0.204	18.1	1.0	39.1	53.4	-14.3
12.056	20.1	0.5	40.6	60.0	-19.4	12.056	14.9	0.5	35.4	50.0	-14.6
5.824	19.6	0.5	40.1	60.0	-19.9	12.194	14.5	0.5	35.0	50.0	-15.0
12.194	19.6	0.5	40.1	60.0	-19.9	12.122	14.2	0.5	34.7	50.0	-15.3
12.122	19.4	0.5	39.9	60.0	-20.1	12.530	13.3	0.5	33.8	50.0	-16.2
12.530	18.4	0.5	38.9	60.0	-21.1	0.271	10.0	1.0	31.0	51.1	-20.1

EMC

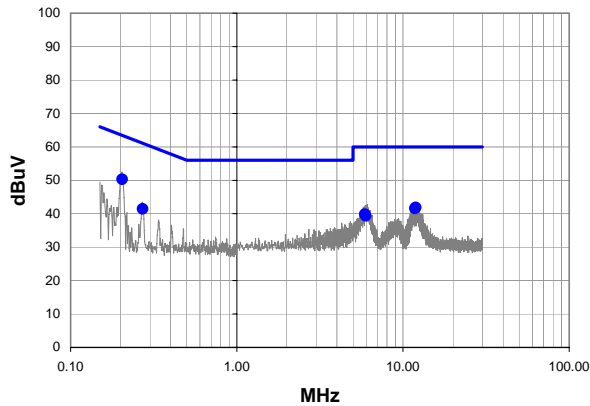
AC Powerline Conducted Emissions

Work Order:	SPT0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(b), 1 Mbps, mid channel			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

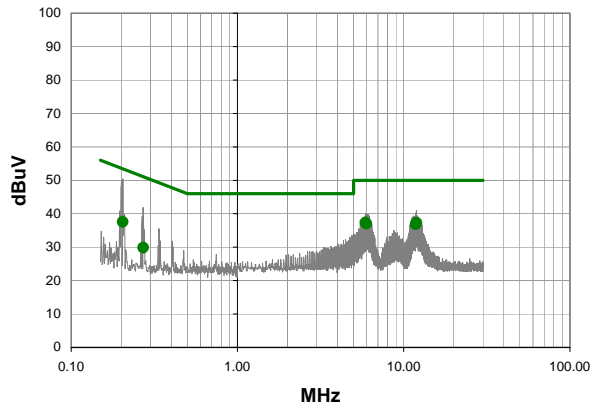
Test Specifications FCC 15.207:2006	Test Method ANSI C63.4:2003
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Run #	3	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.204	29.3	1.0	50.3	63.4	-13.1
11.934	21.4	0.5	41.9	60.0	-18.1
11.798	21.1	0.5	41.6	60.0	-18.4
0.271	20.5	1.0	41.5	61.1	-19.6
5.898	19.4	0.5	39.9	60.0	-20.1
5.968	18.9	0.5	39.4	60.0	-20.6

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
5.898	16.9	0.5	37.4	50.0	-12.6
11.934	16.8	0.5	37.3	50.0	-12.7
5.968	16.5	0.5	37.0	50.0	-13.0
11.798	16.4	0.5	36.9	50.0	-13.1
0.204	16.6	1.0	37.6	53.4	-15.8
0.271	8.9	1.0	29.9	51.1	-21.2

EMC

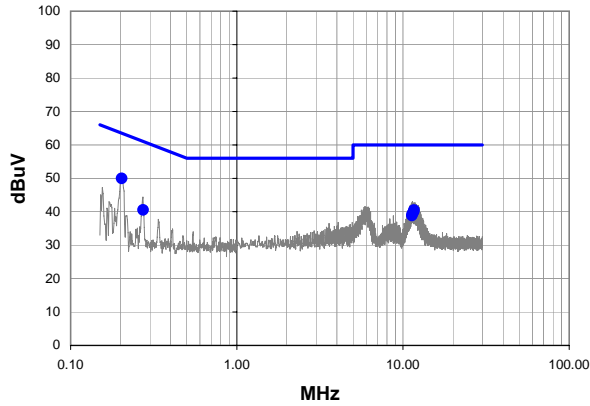
AC Powerline Conducted Emissions

Work Order:	SPT0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(b), 1 Mbps, mid channel			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

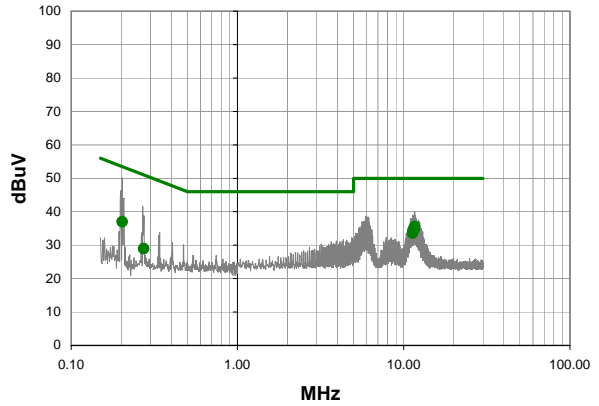
Test Specifications FCC 15.207:2006	Test Method ANSI C63.4:2003
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Run #	4	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.203	29.0	1.0	50.0	63.5	-13.5
11.656	20.0	0.5	40.5	60.0	-19.5
11.590	19.5	0.5	40.0	60.0	-20.0
0.273	19.6	1.0	40.6	61.0	-20.5
11.384	18.9	0.5	39.4	60.0	-20.6
11.316	18.4	0.5	38.9	60.0	-21.1

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
11.656	15.1	0.5	35.6	50.0	-14.4
11.590	14.3	0.5	34.8	50.0	-15.2
11.384	13.7	0.5	34.2	50.0	-15.8
11.316	13.1	0.5	33.6	50.0	-16.4
0.203	16.0	1.0	37.0	53.5	-16.5
0.273	8.0	1.0	29.0	51.0	-22.1

EMC

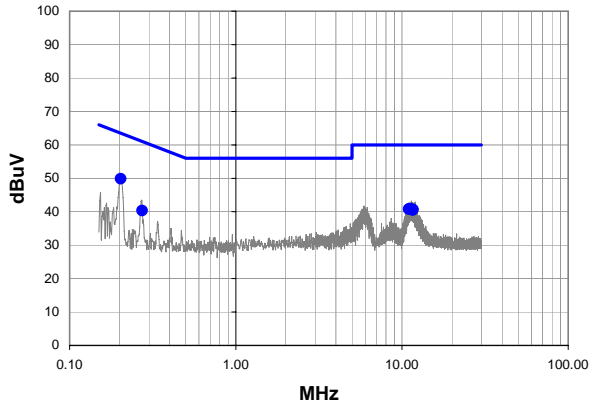
AC Powerline Conducted Emissions

Work Order:	SPT0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(b), 1 Mbps, high channel			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

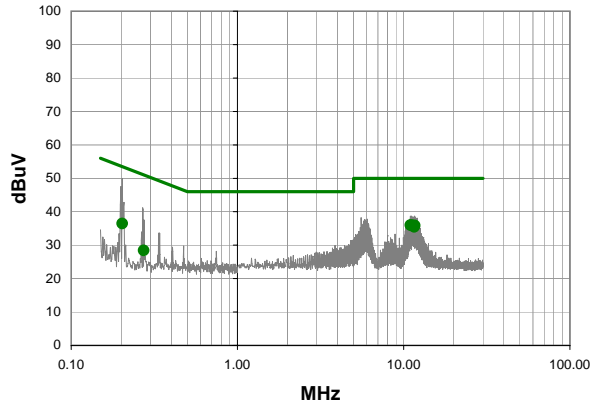
Test Specifications FCC 15.207:2006	Test Method ANSI C63.4:2003
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Run #	5	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.203	28.9	1.0	49.9	63.5	-13.6
11.174	20.5	0.5	41.0	60.0	-19.0
10.970	20.3	0.5	40.8	60.0	-19.2
11.646	20.2	0.5	40.7	60.0	-19.3
11.580	20.0	0.5	40.5	60.0	-19.5
0.273	19.4	1.0	40.4	61.0	-20.7

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
10.970	15.5	0.5	36.0	50.0	-14.0
11.174	15.5	0.5	36.0	50.0	-14.0
11.646	15.4	0.5	35.9	50.0	-14.1
11.580	15.0	0.5	35.5	50.0	-14.5
0.203	15.5	1.0	36.5	53.5	-17.0
0.273	7.5	1.0	28.5	51.0	-22.6

EMC

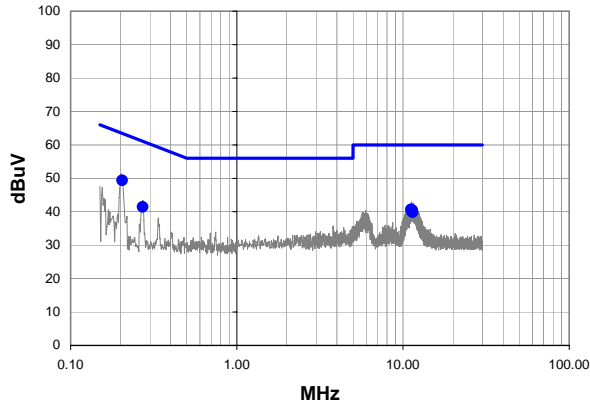
AC Powerline Conducted Emissions

Work Order:	SPT0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(b), 1 Mbps, high channel			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

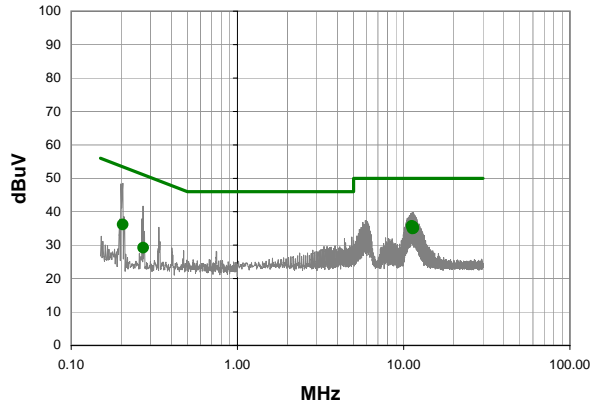
Test Specifications FCC 15.207:2006	Test Method ANSI C63.4:2003
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Run #	6	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.204	28.4	1.0	49.4	63.4	-14.0
11.166	20.2	0.5	40.7	60.0	-19.3
11.370	20.0	0.5	40.5	60.0	-19.5
0.271	20.5	1.0	41.5	61.1	-19.6
11.300	19.6	0.5	40.1	60.0	-19.9
11.436	19.4	0.5	39.9	60.0	-20.1

Average Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
11.166	15.3	0.5	35.8	50.0	-14.2
11.370	15.1	0.5	35.6	50.0	-14.4
11.436	14.6	0.5	35.1	50.0	-14.9
11.300	14.5	0.5	35.0	50.0	-15.0
0.204	15.2	1.0	36.2	53.4	-17.2
0.271	8.3	1.0	29.3	51.1	-21.8

EMC

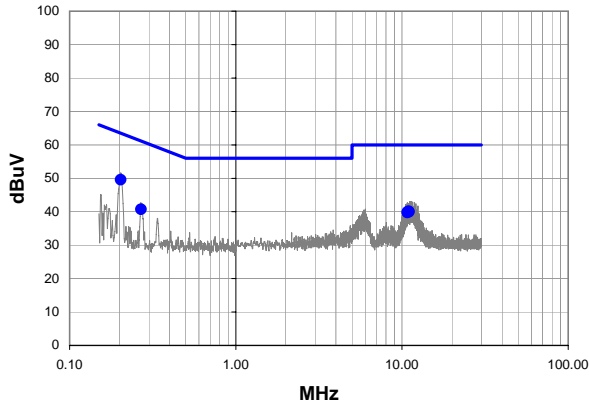
AC Powerline Conducted Emissions

Work Order:	SPT0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(g), 6 Mbps, low channel			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

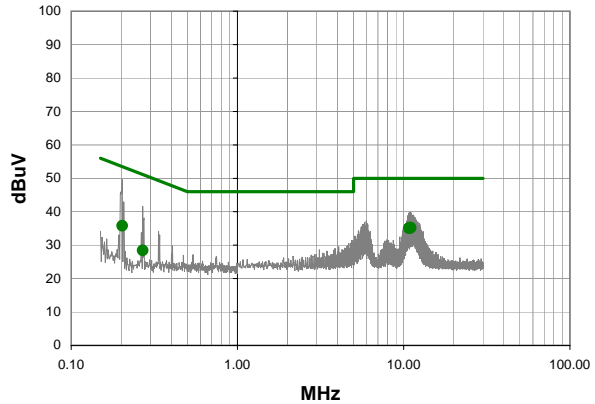
Test Specifications FCC 15.207:2006	Test Method ANSI C63.4:2003
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Run #	7	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Quasi Peak Data - vs - Quasi Peak Limit



Average Data - vs - Average Limit



Quasi Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.203	28.6	1.0	49.6	63.5	-13.9
10.956	19.7	0.5	40.2	60.0	-19.8
10.824	19.5	0.5	40.0	60.0	-20.0
11.024	19.5	0.5	40.0	60.0	-20.0
10.754	19.3	0.5	39.8	60.0	-20.2
0.269	19.8	1.0	40.8	61.1	-20.4

Average Data - vs - Average Limit

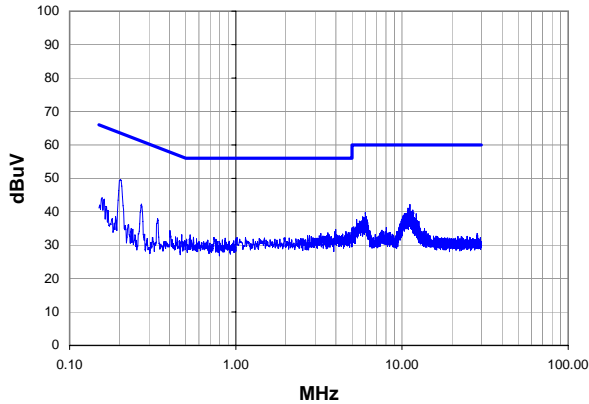
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
10.956	14.8	0.5	35.3	50.0	-14.7
11.024	14.7	0.5	35.2	50.0	-14.8
10.824	14.6	0.5	35.1	50.0	-14.9
0.203	14.8	1.0	35.8	53.5	-17.7
0.269	7.5	1.0	28.5	51.1	-22.7

Work Order:	SPT0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(g), 6 Mbps, low channel			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

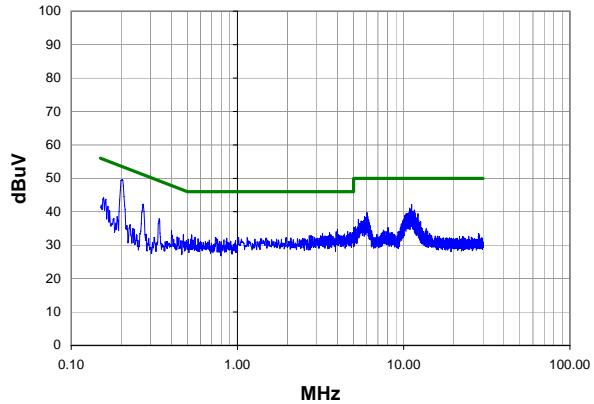
Test Specifications FCC 15.207:2006	Test Method ANSI C63.4:2003
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Run #	8	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.203	28.6	1.0	49.6	63.5	-13.9
11.160	21.7	0.5	42.2	60.0	-17.8
0.271	21.3	1.0	42.3	61.1	-18.8
10.880	20.6	0.5	41.1	60.0	-18.9
10.950	20.1	0.5	40.6	60.0	-19.4
11.090	20.0	0.5	40.5	60.0	-19.5
11.630	20.0	0.5	40.5	60.0	-19.5
10.820	19.9	0.5	40.4	60.0	-19.6
11.020	19.8	0.5	40.3	60.0	-19.7
11.500	19.7	0.5	40.2	60.0	-19.8
11.560	19.7	0.5	40.2	60.0	-19.8
11.290	19.5	0.5	40.0	60.0	-20.0
6.010	19.3	0.5	39.8	60.0	-20.2
11.220	19.2	0.5	39.7	60.0	-20.3
10.750	19.1	0.5	39.6	60.0	-20.4
11.690	19.1	0.5	39.6	60.0	-20.4
10.680	19.0	0.5	39.5	60.0	-20.5
11.360	19.0	0.5	39.5	60.0	-20.5
10.340	18.9	0.5	39.4	60.0	-20.6
10.550	18.9	0.5	39.4	60.0	-20.6

Peak Data - vs - Average Limit

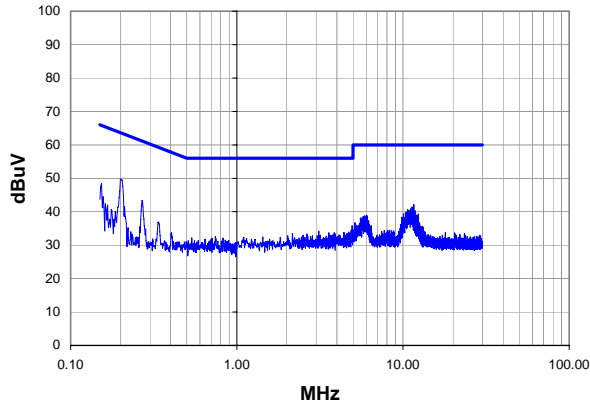
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.203	28.6	1.0	49.6	53.5	-3.9
11.160	21.7	0.5	42.2	50.0	-7.8
0.271	21.3	1.0	42.3	51.1	-8.8
10.880	20.6	0.5	41.1	50.0	-8.9
10.950	20.1	0.5	40.6	50.0	-9.4
11.090	20.0	0.5	40.5	50.0	-9.5
11.630	20.0	0.5	40.5	50.0	-9.5
10.820	19.9	0.5	40.4	50.0	-9.6
11.020	19.8	0.5	40.3	50.0	-9.7
11.500	19.7	0.5	40.2	50.0	-9.8
11.560	19.7	0.5	40.2	50.0	-9.8
11.290	19.5	0.5	40.0	50.0	-10.0
6.010	19.3	0.5	39.8	50.0	-10.2
11.220	19.2	0.5	39.7	50.0	-10.3
10.750	19.1	0.5	39.6	50.0	-10.4
11.690	19.1	0.5	39.6	50.0	-10.4
10.680	19.0	0.5	39.5	50.0	-10.5
11.360	19.0	0.5	39.5	50.0	-10.5
10.340	18.9	0.5	39.4	50.0	-10.6
10.550	18.9	0.5	39.4	50.0	-10.6

Work Order:	SPTE0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(g), 6 Mbps, mid channel			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

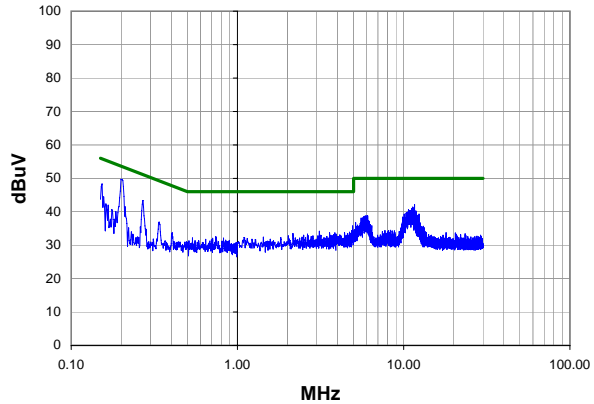
Test Specifications FCC 15.207:2006	Test Method ANSI C63.4:2003
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Run #	9	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit




Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.199	28.7	1.0	49.7	63.6	-13.9
0.153	26.4	1.9	48.3	65.8	-17.5
0.269	22.4	1.0	43.4	61.1	-17.8
11.620	21.7	0.5	42.2	60.0	-17.8
11.290	20.9	0.5	41.4	60.0	-18.6
11.360	20.9	0.5	41.4	60.0	-18.6
11.150	20.4	0.5	40.9	60.0	-19.1
11.560	20.3	0.5	40.8	60.0	-19.2
11.420	20.2	0.5	40.7	60.0	-19.3
10.680	20.1	0.5	40.6	60.0	-19.4
11.220	20.0	0.5	40.5	60.0	-19.5
10.740	19.9	0.5	40.4	60.0	-19.6
10.810	19.9	0.5	40.4	60.0	-19.6
11.020	19.9	0.5	40.4	60.0	-19.6
11.830	19.8	0.5	40.3	60.0	-19.7
11.090	19.7	0.5	40.2	60.0	-19.8
10.880	19.5	0.5	40.0	60.0	-20.0
11.900	19.5	0.5	40.0	60.0	-20.0
10.540	19.4	0.5	39.9	60.0	-20.1
11.690	19.4	0.5	39.9	60.0	-20.1

Peak Data - vs - Average Limit

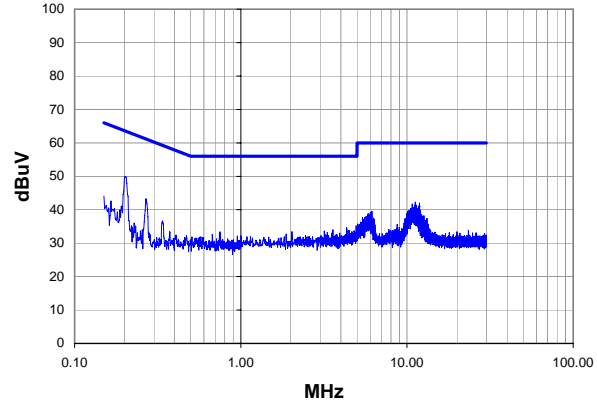
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.199	28.7	1.0	49.7	53.6	-3.9
0.153	26.4	1.9	48.3	55.8	-7.5
0.269	22.4	1.0	43.4	51.1	-7.8
11.620	21.7	0.5	42.2	50.0	-7.8
11.290	20.9	0.5	41.4	50.0	-8.6
11.360	20.9	0.5	41.4	50.0	-8.6
11.150	20.4	0.5	40.9	50.0	-9.1
11.560	20.3	0.5	40.8	50.0	-9.2
11.420	20.2	0.5	40.7	50.0	-9.3
10.680	20.1	0.5	40.6	50.0	-9.4
11.220	20.0	0.5	40.5	50.0	-9.5
10.740	19.9	0.5	40.4	50.0	-9.6
10.810	19.9	0.5	40.4	50.0	-9.6
11.020	19.9	0.5	40.4	50.0	-9.6
11.830	19.8	0.5	40.3	50.0	-9.7
11.090	19.7	0.5	40.2	50.0	-9.8
10.880	19.5	0.5	40.0	50.0	-10.0
11.900	19.5	0.5	40.0	50.0	-10.0
10.540	19.4	0.5	39.9	50.0	-10.1
11.690	19.4	0.5	39.9	50.0	-10.1

Work Order:	SPTE0060	Date:	06/22/07	
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(g), 6 Mbps, mid channel			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

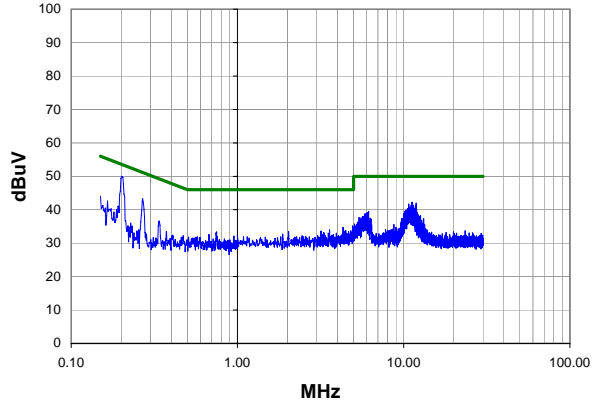
Test Specifications FCC 15.207:2006	Test Method ANSI C63.4:2003
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Run #	10	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.201	29.0	1.0	50.0	63.6	-13.6
11.220	21.8	0.5	42.3	60.0	-17.7
0.269	22.3	1.0	43.3	61.1	-17.9
11.890	21.5	0.5	42.0	60.0	-18.0
10.740	21.2	0.5	41.7	60.0	-18.3
11.420	20.9	0.5	41.4	60.0	-18.6
11.080	20.8	0.5	41.3	60.0	-18.7
11.760	20.6	0.5	41.1	60.0	-18.9
11.150	20.5	0.5	41.0	60.0	-19.0
11.350	20.5	0.5	41.0	60.0	-19.0
11.820	20.5	0.5	41.0	60.0	-19.0
11.280	20.4	0.5	40.9	60.0	-19.1
10.950	20.2	0.5	40.7	60.0	-19.3
10.880	20.1	0.5	40.6	60.0	-19.4
10.810	20.0	0.5	40.5	60.0	-19.5
11.010	20.0	0.5	40.5	60.0	-19.5
10.540	19.9	0.5	40.4	60.0	-19.6
11.620	19.9	0.5	40.4	60.0	-19.6
11.690	19.8	0.5	40.3	60.0	-19.7
11.490	19.7	0.5	40.2	60.0	-19.8

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.201	29.0	1.0	50.0	53.6	-3.6
11.220	21.8	0.5	42.3	50.0	-7.7
0.269	22.3	1.0	43.3	51.1	-7.9
11.890	21.5	0.5	42.0	50.0	-8.0
10.740	21.2	0.5	41.7	50.0	-8.3
11.420	20.9	0.5	41.4	50.0	-8.6
11.080	20.8	0.5	41.3	50.0	-8.7
11.760	20.6	0.5	41.1	50.0	-8.9
11.150	20.5	0.5	41.0	50.0	-9.0
11.350	20.5	0.5	41.0	50.0	-9.0
11.820	20.5	0.5	41.0	50.0	-9.0
11.280	20.4	0.5	40.9	50.0	-9.1
10.950	20.2	0.5	40.7	50.0	-9.3
10.880	20.1	0.5	40.6	50.0	-9.4
10.810	20.0	0.5	40.5	50.0	-9.5
11.010	20.0	0.5	40.5	50.0	-9.5
10.540	19.9	0.5	40.4	50.0	-9.6
11.620	19.9	0.5	40.4	50.0	-9.6
11.690	19.8	0.5	40.3	50.0	-9.7
11.490	19.7	0.5	40.2	50.0	-9.8

EMC

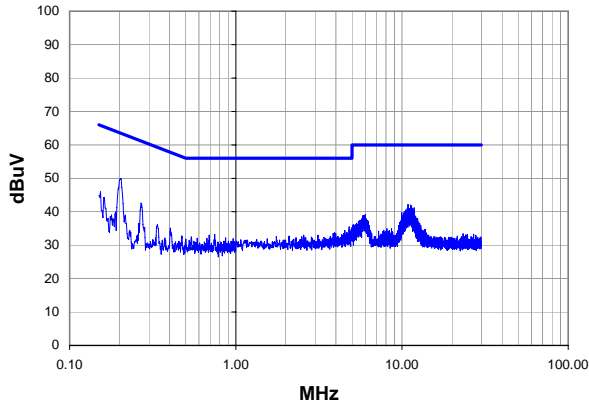
AC Powerline Conducted Emissions

Work Order:	SPTE0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(g), 6 Mbps, high channel			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

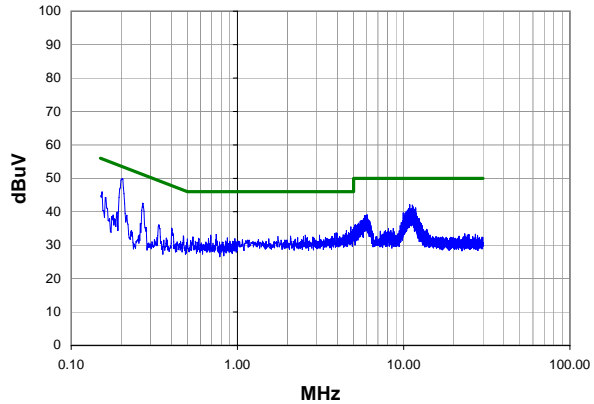
Test Specifications FCC 15.207:2006	Test Method ANSI C63.4:2003
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Run #	11	Line:	High Line	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.203	29.0	1.0	50.0	63.5	-13.5
10.880	21.7	0.5	42.2	60.0	-17.8
11.280	21.5	0.5	42.0	60.0	-18.0
11.350	21.2	0.5	41.7	60.0	-18.3
0.269	21.6	1.0	42.6	61.1	-18.6
11.820	20.7	0.5	41.2	60.0	-18.8
11.480	20.6	0.5	41.1	60.0	-18.9
10.740	20.5	0.5	41.0	60.0	-19.0
11.080	20.5	0.5	41.0	60.0	-19.0
11.210	20.3	0.5	40.8	60.0	-19.2
11.620	20.2	0.5	40.7	60.0	-19.3
10.940	20.1	0.5	40.6	60.0	-19.4
10.530	20.0	0.5	40.5	60.0	-19.5
11.550	20.0	0.5	40.5	60.0	-19.5
11.010	19.9	0.5	40.4	60.0	-19.6
10.800	19.7	0.5	40.2	60.0	-19.8
11.150	19.7	0.5	40.2	60.0	-19.8
0.153	24.0	1.9	45.9	65.8	-19.9
11.420	19.6	0.5	40.1	60.0	-19.9
10.330	19.5	0.5	40.0	60.0	-20.0

Peak Data - vs - Average Limit

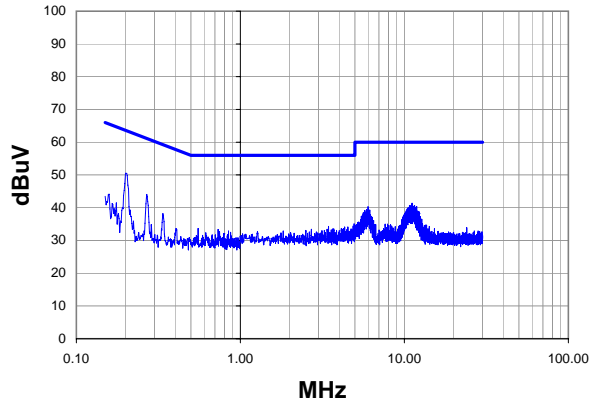
Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.203	29.0	1.0	50.0	53.5	-3.5
10.880	21.7	0.5	42.2	50.0	-7.8
11.280	21.5	0.5	42.0	50.0	-8.0
11.350	21.2	0.5	41.7	50.0	-8.3
0.269	21.6	1.0	42.6	51.1	-8.6
11.820	20.7	0.5	41.2	50.0	-8.8
11.480	20.6	0.5	41.1	50.0	-8.9
10.740	20.5	0.5	41.0	50.0	-9.0
11.080	20.5	0.5	41.0	50.0	-9.0
11.210	20.3	0.5	40.8	50.0	-9.2
11.620	20.2	0.5	40.7	50.0	-9.3
10.940	20.1	0.5	40.6	50.0	-9.4
10.530	20.0	0.5	40.5	50.0	-9.5
11.550	20.0	0.5	40.5	50.0	-9.5
11.010	19.9	0.5	40.4	50.0	-9.6
10.800	19.7	0.5	40.2	50.0	-9.8
11.150	19.7	0.5	40.2	50.0	-9.8
0.153	24.0	1.9	45.9	55.8	-9.9
11.420	19.6	0.5	40.1	50.0	-9.9
10.330	19.5	0.5	40.0	50.0	-10.0

Work Order:	SPT0060	Date:	06/22/07	<i>Rod Pelouin</i> Tested by: Rod Pelouin
Project:	None	Temperature:	22	
Job Site:	EV07	Humidity:	33	
Serial Number:	Unknown	Barometric Pres.:	30.07	
EUT:	IX-WL3945 in the IX750			
Configuration:	2 - Spurious Radiated Emissions - in Office Dock			
Customer:	Spectrum Technology, Inc.			
Attendees:	Rod Munro			
EUT Power:	120VAC/60Hz			
Operating Mode:	Transmitting 802.11(g), 6 Mbps, high channel			
Deviations:	No deviations.			
Comments:	Aux antenna, office dock configuration.			

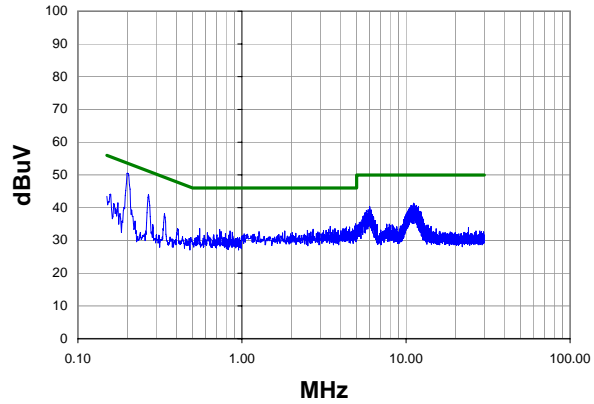
Test Specifications FCC 15.207:2006	Test Method ANSI C63.4:2003
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Run #	12	Line:	Neutral	Ext. Attenuation:	20	Results	Pass
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Peak Data - vs - Quasi Peak Limit



Peak Data - vs - Average Limit



Peak Data - vs - Quasi Peak Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.199	29.5	1.0	50.5	63.6	-13.1
0.269	23.1	1.0	44.1	61.1	-17.1
11.140	20.9	0.5	41.4	60.0	-18.6
11.220	20.6	0.5	41.1	60.0	-18.9
11.080	20.4	0.5	40.9	60.0	-19.1
10.740	20.2	0.5	40.7	60.0	-19.3
10.800	20.2	0.5	40.7	60.0	-19.3
11.550	20.1	0.5	40.6	60.0	-19.4
10.940	20.0	0.5	40.5	60.0	-19.5
11.480	20.0	0.5	40.5	60.0	-19.5
11.890	19.9	0.5	40.4	60.0	-19.6
6.010	19.8	0.5	40.3	60.0	-19.7
11.350	19.8	0.5	40.3	60.0	-19.7
10.870	19.6	0.5	40.1	60.0	-19.9
11.620	19.6	0.5	40.1	60.0	-19.9
11.750	19.6	0.5	40.1	60.0	-19.9
10.530	19.5	0.5	40.0	60.0	-20.0
10.670	19.5	0.5	40.0	60.0	-20.0
11.420	19.4	0.5	39.9	60.0	-20.1
11.680	19.4	0.5	39.9	60.0	-20.1

Peak Data - vs - Average Limit

Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Adjusted dBuV	Spec. Limit dBuV	Compared to Spec. (dB)
0.199	29.5	1.0	50.5	53.6	-3.1
0.269	23.1	1.0	44.1	51.1	-7.1
11.140	20.9	0.5	41.4	50.0	-8.6
11.220	20.6	0.5	41.1	50.0	-8.9
11.080	20.4	0.5	40.9	50.0	-9.1
10.740	20.2	0.5	40.7	50.0	-9.3
10.800	20.2	0.5	40.7	50.0	-9.3
11.550	20.1	0.5	40.6	50.0	-9.4
10.940	20.0	0.5	40.5	50.0	-9.5
11.480	20.0	0.5	40.5	50.0	-9.5
11.890	19.9	0.5	40.4	50.0	-9.6
6.010	19.8	0.5	40.3	50.0	-9.7
11.350	19.8	0.5	40.3	50.0	-9.7
10.870	19.6	0.5	40.1	50.0	-9.9
11.620	19.6	0.5	40.1	50.0	-9.9
11.750	19.6	0.5	40.1	50.0	-9.9
10.530	19.5	0.5	40.0	50.0	-10.0
10.670	19.5	0.5	40.0	50.0	-10.0
11.420	19.4	0.5	39.9	50.0	-10.1
11.680	19.4	0.5	39.9	50.0	-10.1



