

Spectrum Technology, Inc.

**IX750 with IX-EYXFDC
(FCC ID: KBCIX-EYXFDC)**

May 31, 2008

Report No. SPTE0088.1

Report Prepared By



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

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EMC Test Report

Certificate of Test

Issue Date: April 25, 2008
Spectrum Technology, Inc.

Model: IX750 with IX-EYXFDC (FCC ID: KBCIX-EYXFDC)

Emissions			
Test Description	Specification	Test Method	Pass/Fail
Spurious Radiated Emissions	FCC 15.247 (DTS):2007	ANSI C63.4:2003 KDB No. 558074	Pass

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

Test Facility

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

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

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

This site has been fully described in a report filed with and accepted by the FCC (Federal Communications Commission) and Industry Canada (Site Filing #2834D-1).

Approved By:



Don Facteau, IT Manager



NVLAP Lab Code: 200630-0

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

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

Revision Number	Description	Date	Page Number
00	None		

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



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



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

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



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



TÜV Product Service: Included in 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



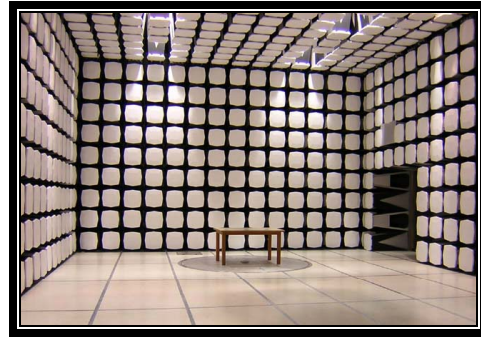
MIC: Northwest EMC, Inc is a CAB designated by MRA partners and recognized by Korea. (*Assigned Lab Numbers: Hillsboro: US0017, Irvine: US0158, Sultan: US0157*)



SCOPE

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

<http://www.nwemc.com/scope.asp>



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

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



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

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



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

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

Party Requesting the Test

Company Name:	Spectrum Technology, Inc.
Address:	209 Dayton Street Suite #205
City, State, Zip:	Edmonds, WA 98020
Test Requested By:	Rod Munro
Model:	IX750 with IX-EYXFDC (FCC ID: KBCIX-EYXFDC)
First Date of Test:	March 31, 2008
Last Date of Test:	March 31, 2008
Receipt Date of Samples:	March 31, 2008
Equipment Design Stage:	Production
Equipment Condition:	No Damage

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

IX750 Rugged Footprint PC with Bluetooth Radio (IX-EYXFDC).

Testing Objective:

Seeking to demonstrate compliance to FCC 15.247 requirements

CONFIGURATION 1 SPTE0086**Software/Firmware Running during test**

Description	Version
CSR Blue Suite	1.2

EUT

Description	Manufacturer	Model/Part Number	Serial Number
Bluetooth radio	Intel Corporation	IX-EYXFDC	Unknown

Peripherals in test setup boundary

Description	Manufacturer	Model/Part Number	Serial Number
Host Computer	General Dynamics Itronix Corporation	IX750	None
Office Dock	General Dynamics Itronix Corporation.	IX750 Office Dock	ZZTPE7109AD0128
Keyboard	Belkin	F8E206-USB	06A003399
Mouse	Logitech	M-BE58	LZE02357693
AC Adapter	Delta Electronics, Inc.	ADP-48HB B	LZW0713000209
Serial Modem	Intel Corporation	PCEM 7296	Unknown
Headset	Unknown	Unknown	Unknown

Cables

Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
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
Audio	No	1.6 m	No	Office Dock	Headset
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
DC	No	1.3 m	Yes	Host Computer	AC Adapter

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

Equipment modifications

Item	Date	Test	Modification	Note	Disposition of EUT
1	3/31/2008	Spurious Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.

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.

CHANNELS INVESTIGATED

Transmitting, low channel, 2402 MHz
Transmitting, mid channel, 2441 MHz
Transmitting, high channel, 2480 MHz

MODES OF OPERATION

GFSK modulation, DH5 data rate, BlueTest power setting 54
pi/4-DQPSK modulation, 2DH5 data rate, BlueTest power setting 95
8-DPSK modulation, 3DH5 data rate, BlueTest power setting 95

POWER SETTINGS INVESTIGATED

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED

Start Frequency	30 MHz	Stop Frequency	25 GHz
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SAMPLE CALCULATIONS

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

TEST EQUIPMENT

Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Agilent	E4446A	AAT	12/7/2007	13
Pre-Amplifier	Miteq	AM-1616-1000	AOL	12/29/2006	16
Antenna, Biconilog	EMCO	3141	AXE	1/15/2008	24
EV01 Cables		Bilog Cables	EVA	10/23/2007	13
High Pass Filter	Micro-Tronics	HPM50111	HFO	1/16/2008	13
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	1/3/2008	13
Antenna, Horn	EMCO	3115	AHC	8/24/2006	24
EV01 Cables		Double Ridge Horn Cables	EVB	1/3/2008	13
Pre-Amplifier	Miteq	AMF-6F-08001200-30-10P	AVC	6/22/2007	13
Antenna, Horn	ETS	3160-07	AHU	NCR	0
EV01 Cables		Standard Gain Horns Cables	EVF	10/23/2007	13
Pre-Amplifier	Miteq	JSD4-18002600-26-8P	APU	7/25/2007	13
Antenna, Horn	EMCO	3160-09	AHG	NCR	0
EV01 Cables		6GHz Standard Gain Horn C	EVD	7/25/2007	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 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: IX750 with IX-EYXFDC (FCC ID: KBCIX-EYXFDC)	Work Order: SPTE0086
Serial Number: unknown	Date: 03/31/08
Customer: Spectrum Technology, Inc.	Temperature: 23
Attendees: none	Humidity: 24%
Project:	Barometric Pres.: 30.39
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV01

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

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

COMMENTS

EUT OPERATING MODES

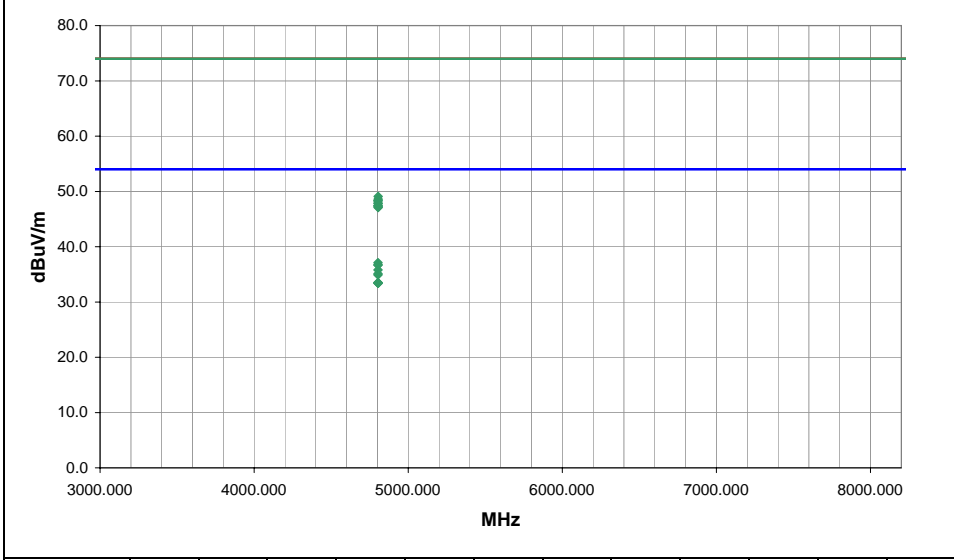
Transmitting, low channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	1
Configuration #	1
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
4803.980	27.0	10.1	205.0	1.3	3.0	0.0	H-Horn	AV	0.0	37.1	54.0	-16.9	GFSK, DH5, PC on side
4803.979	26.6	10.1	111.0	1.2	3.0	0.0	V-Horn	AV	0.0	36.7	54.0	-17.3	GFSK, DH5, PC screen horizontal
4803.995	26.6	10.1	189.0	1.1	3.0	0.0	V-Horn	AV	0.0	36.7	54.0	-17.3	GFSK, DH5, PC typical orientation
4803.997	25.7	10.1	106.0	1.1	3.0	0.0	H-Horn	AV	0.0	35.8	54.0	-18.2	GFSK, DH5, PC typical orientation
4804.025	25.0	10.1	284.0	1.2	3.0	0.0	V-Horn	AV	0.0	35.1	54.0	-18.9	GFSK, DH5, PC on side
4803.955	24.8	10.1	148.0	1.3	3.0	0.0	H-Horn	AV	0.0	34.9	54.0	-19.1	GFSK, DH5, PC screen horizontal
4803.829	23.4	10.1	189.0	1.1	3.0	0.0	V-Horn	AV	0.0	33.5	54.0	-20.5	pi/4-DQPSK, 2DH5, PC typical orientation
4803.918	23.4	10.1	189.0	1.1	3.0	0.0	V-Horn	AV	0.0	33.5	54.0	-20.5	8DPSK, 3DH5, PC typical orientation
4803.743	23.3	10.1	205.0	1.3	3.0	0.0	H-Horn	AV	0.0	33.4	54.0	-20.6	pi/4-DQPSK, 2DH5, PC on side
4804.158	23.3	10.1	210.0	1.4	3.0	0.0	H-Horn	AV	0.0	33.4	54.0	-20.6	8DPSK, 3DH5, PC on side
4804.218	39.0	10.1	205.0	1.3	3.0	0.0	H-Horn	PK	0.0	49.1	74.0	-24.9	GFSK, DH5, PC on side
4804.888	38.5	10.1	111.0	1.2	3.0	0.0	V-Horn	PK	0.0	48.6	74.0	-25.4	GFSK, DH5, PC screen horizontal
4803.718	38.2	10.1	106.0	1.1	3.0	0.0	H-Horn	PK	0.0	48.3	74.0	-25.7	GFSK, DH5, PC typical orientation
4804.080	38.2	10.1	189.0	1.1	3.0	0.0	V-Horn	PK	0.0	48.3	74.0	-25.7	GFSK, DH5, PC typical orientation
4804.046	37.8	10.1	284.0	1.2	3.0	0.0	V-Horn	PK	0.0	47.9	74.0	-26.1	GFSK, DH5, PC on side
4804.434	37.7	10.1	148.0	1.3	3.0	0.0	H-Horn	PK	0.0	47.8	74.0	-26.2	GFSK, DH5, PC screen horizontal
4803.604	37.3	10.1	189.0	1.1	3.0	0.0	V-Horn	PK	0.0	47.4	74.0	-26.6	pi/4-DQPSK, 2DH5, PC typical orientation
4804.015	37.3	10.1	189.0	1.1	3.0	0.0	V-Horn	PK	0.0	47.4	74.0	-26.6	8DPSK, 3DH5, PC typical orientation
4804.491	37.1	10.1	210.0	1.4	3.0	0.0	H-Horn	PK	0.0	47.2	74.0	-26.8	8DPSK, 3DH5, PC on side
4805.076	37.0	10.1	205.0	1.3	3.0	0.0	H-Horn	PK	0.0	47.1	74.0	-26.9	pi/4-DQPSK, 2DH5, PC on side

EUT: IX750 with IX-EYXFDC (FCC ID: KBCIX-EYXFDC)	Work Order: SPTE0086
Serial Number: unknown	Date: 03/31/08
Customer: Spectrum Technology, Inc.	Temperature: 23
Attendees: none	Humidity: 24%
Project:	Barometric Pres.: 30.39
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV01

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

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

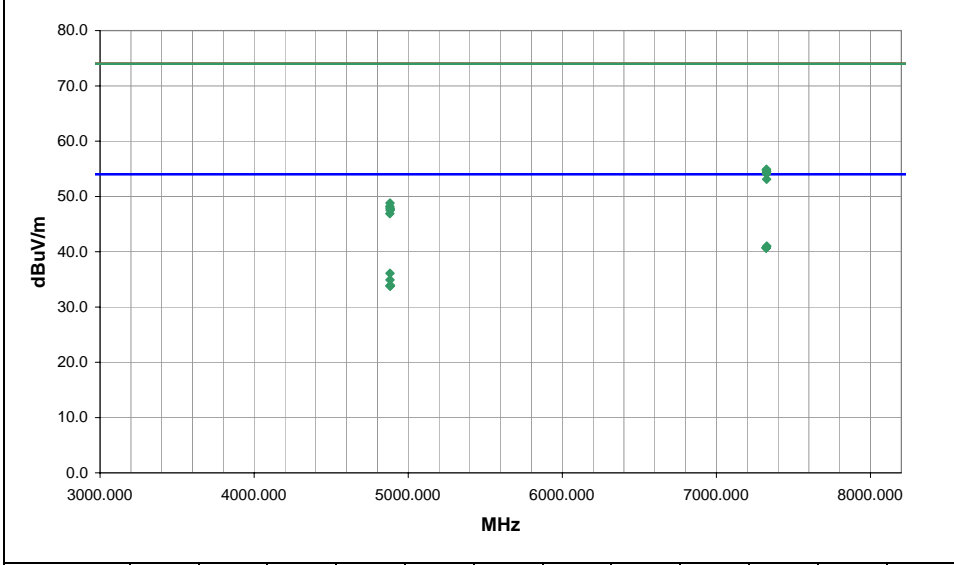
COMMENTS

EUT OPERATING MODES
 Transmitting, mid channel

DEVIATIONS FROM TEST STANDARD
 No deviations.

Run #	2
Configuration #	1
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
7326.930	23.9	17.1	186.0	1.1	3.0	0.0	V-Horn	AV	0.0	41.0	54.0	-13.0	8DPSK, 3DH5, PC typical orientation
7323.785	23.7	17.1	186.0	1.1	3.0	0.0	V-Horn	AV	0.0	40.8	54.0	-13.2	pi/4-DQPSK, 2DH5, PC typical orientation
7322.771	23.6	17.1	284.0	2.1	3.0	0.0	H-Horn	AV	0.0	40.7	54.0	-13.3	GFSK, DH5, PC on side
7322.785	23.6	17.1	141.0	1.1	3.0	0.0	V-Horn	AV	0.0	40.7	54.0	-13.3	GFSK, DH5, PC typical orientation
7323.566	23.6	17.1	284.0	2.2	3.0	0.0	H-Horn	AV	0.0	40.7	54.0	-13.3	8DPSK, 3DH5, PC on side
7323.571	23.6	17.1	285.0	2.1	3.0	0.0	H-Horn	AV	0.0	40.7	54.0	-13.3	pi/4-DQPSK, 2DH5, PC on side
4881.980	25.6	10.5	186.0	1.1	3.0	0.0	V-Horn	AV	0.0	36.1	54.0	-17.9	GFSK, DH5, PC typical orientation
4881.946	24.4	10.5	175.0	1.1	3.0	0.0	H-Horn	AV	0.0	34.9	54.0	-19.1	GFSK, DH5, PC on side
7324.236	37.8	17.1	284.0	2.1	3.0	0.0	H-Horn	PK	0.0	54.9	74.0	-19.1	GFSK, DH5, PC on side
7323.736	37.7	17.1	284.0	2.2	3.0	0.0	H-Horn	PK	0.0	54.8	74.0	-19.2	8DPSK, 3DH5, PC on side
7325.660	37.4	17.1	186.0	1.1	3.0	0.0	V-Horn	PK	0.0	54.5	74.0	-19.5	8DPSK, 3DH5, PC typical orientation
7323.540	37.1	17.1	141.0	1.1	3.0	0.0	V-Horn	PK	0.0	54.2	74.0	-19.8	GFSK, DH5, PC typical orientation
7324.306	37.0	17.1	285.0	2.1	3.0	0.0	H-Horn	PK	0.0	54.1	74.0	-19.9	pi/4-DQPSK, 2DH5, PC on side
4884.190	23.4	10.5	186.0	1.1	3.0	0.0	V-Horn	AV	0.0	33.9	54.0	-20.1	pi/4-DQPSK, 2DH5, PC typical orientation
4882.146	23.3	10.5	175.0	1.1	3.0	0.0	H-Horn	AV	0.0	33.8	54.0	-20.2	8DPSK, 3DH5, PC on side
4882.435	23.3	10.5	175.0	1.1	3.0	0.0	V-Horn	AV	0.0	33.8	54.0	-20.2	8DPSK, 3DH5, PC typical orientation
4882.771	23.3	10.5	175.0	1.1	3.0	0.0	H-Horn	AV	0.0	33.8	54.0	-20.2	pi/4-DQPSK, 2DH5, PC on side
7325.640	36.0	17.1	186.0	1.1	3.0	0.0	V-Horn	PK	0.0	53.1	74.0	-20.9	pi/4-DQPSK, 2DH5, PC typical orientation
4881.005	38.3	10.5	186.0	1.1	3.0	0.0	V-Horn	PK	0.0	48.8	74.0	-25.2	GFSK, DH5, PC typical orientation
4880.930	37.7	10.5	175.0	1.1	3.0	0.0	V-Horn	PK	0.0	48.2	74.0	-25.8	8DPSK, 3DH5, PC typical orientation

EUT: IX750 with IX-EYXFDC (FCC ID: KBCIX-EYXFDC)	Work Order: SPTE0086
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Customer: Spectrum Technology, Inc.	Temperature: 23
Attendees: none	Humidity: 24%
Project:	Barometric Pres.: 30.39
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV01

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

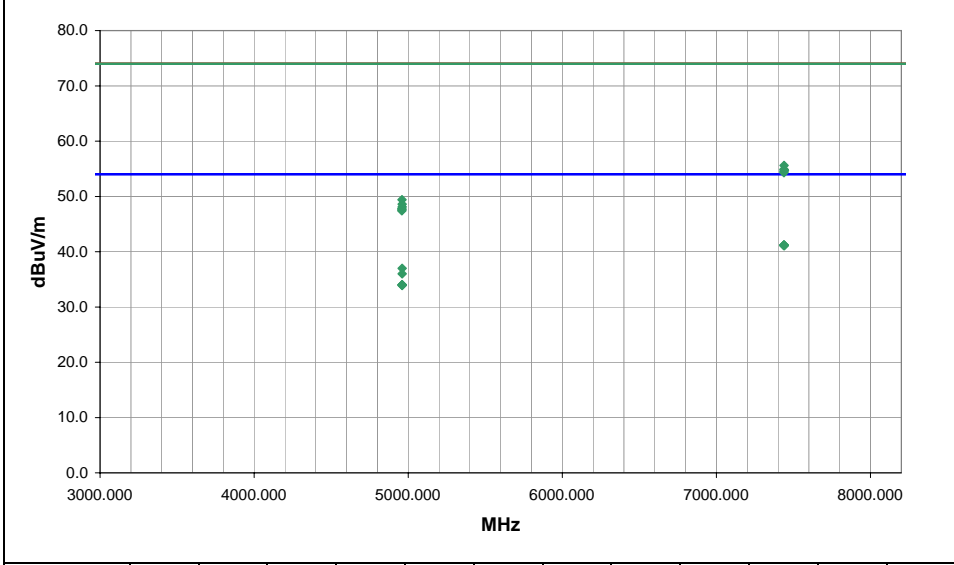
TEST PARAMETERS
Antenna Height(s) (m) 1 - 4 Test Distance (m) 3

COMMENTS

EUT OPERATING MODES
 Transmitting, high channel

DEVIATIONS FROM TEST STANDARD
 No deviations.

Run #	3	 Signature
Configuration #	1	
Results	Pass	



Freq (MHz)	Amplitude (dBuV)	Factor (dB)	Azimuth (degrees)	Height (meters)	Distance (meters)	External Attenuation (dB)	Polarity	Detector	Distance Adjustment (dB)	Adjusted dBuV/m	Spec. Limit dBuV/m	Compared to Spec. (dB)	Comments
7436.835	23.5	17.7	311.0	1.7	3.0	0.0	V-Horn	AV	0.0	41.2	54.0	-12.8	8DPSK, 3DH5, PC typical orientation
7437.866	23.5	17.7	69.0	1.2	3.0	0.0	H-Horn	AV	0.0	41.2	54.0	-12.8	pi/4-DQPSK, 2DH5, PC on side
7439.085	23.5	17.7	311.0	1.7	3.0	0.0	V-Horn	AV	0.0	41.2	54.0	-12.8	pi/4-DQPSK, 2DH5, PC typical orientation
7440.156	23.5	17.7	69.0	1.2	3.0	0.0	H-Horn	AV	0.0	41.2	54.0	-12.8	8DPSK, 3DH5, PC on side
7439.135	23.4	17.7	311.0	1.7	3.0	0.0	V-Horn	AV	0.0	41.1	54.0	-12.9	GFSK, DH5, PC typical orientation
7439.276	23.4	17.7	69.0	1.2	3.0	0.0	H-Horn	AV	0.0	41.1	54.0	-12.9	GFSK, DH5, PC on side
4960.010	26.0	11.0	184.0	1.0	3.0	0.0	V-Horn	AV	0.0	37.0	54.0	-17.0	GFSK, DH5, PC typical orientation
4960.001	25.0	11.0	189.0	1.1	3.0	0.0	H-Horn	AV	0.0	36.0	54.0	-18.0	GFSK, DH5, PC on side
7438.820	37.9	17.7	311.0	1.7	3.0	0.0	V-Horn	PK	0.0	55.6	74.0	-18.4	GFSK, DH5, PC typical orientation
7438.310	37.2	17.7	311.0	1.7	3.0	0.0	V-Horn	PK	0.0	54.9	74.0	-19.1	pi/4-DQPSK, 2DH5, PC typical orientation
7440.286	37.1	17.7	69.0	1.2	3.0	0.0	H-Horn	PK	0.0	54.8	74.0	-19.2	GFSK, DH5, PC on side
7440.586	37.0	17.7	69.0	1.2	3.0	0.0	H-Horn	PK	0.0	54.7	74.0	-19.3	8DPSK, 3DH5, PC on side
7438.285	36.8	17.7	311.0	1.7	3.0	0.0	V-Horn	PK	0.0	54.5	74.0	-19.5	8DPSK, 3DH5, PC typical orientation
7438.291	36.6	17.7	69.0	1.2	3.0	0.0	H-Horn	PK	0.0	54.3	74.0	-19.7	pi/4-DQPSK, 2DH5, PC on side
4959.031	23.0	11.0	189.0	1.1	3.0	0.0	H-Horn	AV	0.0	34.0	54.0	-20.0	pi/4-DQPSK, 2DH5, PC on side
4960.326	23.0	11.0	189.0	1.1	3.0	0.0	H-Horn	AV	0.0	34.0	54.0	-20.0	8DPSK, 3DH5, PC on side
4960.565	23.0	11.0	184.0	1.0	3.0	0.0	V-Horn	AV	0.0	34.0	54.0	-20.0	8DPSK, 3DH5, PC typical orientation
4960.280	22.9	11.0	183.0	1.0	3.0	0.0	V-Horn	AV	0.0	33.9	54.0	-20.1	pi/4-DQPSK, 2DH5, PC typical orientation
4959.810	38.4	11.0	184.0	1.0	3.0	0.0	V-Horn	PK	0.0	49.4	74.0	-24.6	GFSK, DH5, PC typical orientation
4960.601	37.6	11.0	189.0	1.1	3.0	0.0	H-Horn	PK	0.0	48.6	74.0	-25.4	GFSK, DH5, PC on side

EUT: IX750 with IX-EYXFDC (FCC ID: KBCIX-EYXFDC)	Work Order: SPTE0086
Serial Number: unknown	Date: 03/31/08
Customer: Spectrum Technology, Inc.	Temperature: 23
Attendees: none	Humidity: 24%
Project:	Barometric Pres.: 30.39
Tested by: Rod Peloquin	Power: 120VAC/60Hz
	Job Site: EV01

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

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

COMMENTS

EUT OPERATING MODES

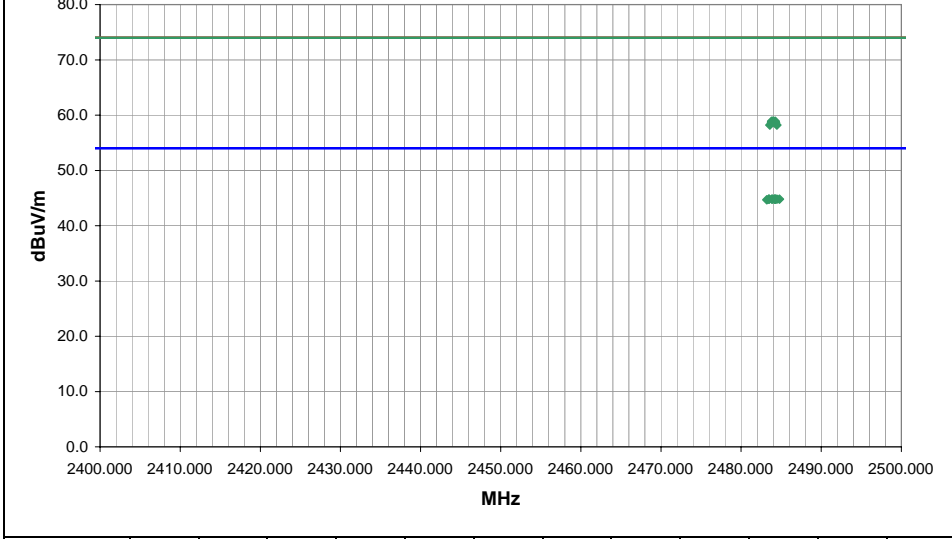
Transmitting, high channel

DEVIATIONS FROM TEST STANDARD

No deviations.

Run #	4
Configuration #	1
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
2483.439	22.6	2.2	186.0	1.2	3.0	20.0	H-Horn	AV	0.0	44.8	54.0	-9.2	GFSK, DH5, PC screen horizontal
2483.512	22.6	2.2	240.0	1.0	3.0	20.0	V-Horn	AV	0.0	44.8	54.0	-9.2	pi/4-DQPSK, 2DH5, PC typical orientation
2483.823	22.6	2.2	295.0	1.1	3.0	20.0	V-Horn	AV	0.0	44.8	54.0	-9.2	GFSK, DH5, PC on side
2483.948	22.6	2.2	115.0	1.0	3.0	20.0	V-Horn	AV	0.0	44.8	54.0	-9.2	GFSK, DH5, PC screen horizontal
2484.218	22.6	2.2	326.0	1.1	3.0	20.0	V-Horn	AV	0.0	44.8	54.0	-9.2	GFSK, DH5, PC typical orientation
2484.219	22.6	2.2	360.0	1.2	3.0	20.0	H-Horn	AV	0.0	44.8	54.0	-9.2	8DPSK, 3DH5, PC typical orientation
2484.255	22.6	2.2	247.0	1.2	3.0	20.0	H-Horn	AV	0.0	44.8	54.0	-9.2	pi/4-DQPSK, 2DH5, PC typical orientation
2484.459	22.6	2.2	224.0	1.0	3.0	20.0	H-Horn	AV	0.0	44.8	54.0	-9.2	GFSK, DH5, PC on side
2484.790	22.6	2.2	242.0	1.0	3.0	20.0	V-Horn	AV	0.0	44.8	54.0	-9.2	8DPSK, 3DH5, PC typical orientation
2483.204	22.5	2.2	26.0	1.0	3.0	20.0	H-Horn	AV	0.0	44.7	54.0	-9.3	GFSK, DH5, PC typical orientation
2483.808	36.7	2.2	295.0	1.1	3.0	20.0	V-Horn	PK	0.0	58.9	74.0	-15.1	GFSK, DH5, PC on side
2483.938	36.7	2.2	326.0	1.1	3.0	20.0	V-Horn	PK	0.0	58.9	74.0	-15.1	GFSK, DH5, PC typical orientation
2484.056	36.7	2.2	224.0	1.0	3.0	20.0	H-Horn	PK	0.0	58.9	74.0	-15.1	GFSK, DH5, PC on side
2484.260	36.7	2.2	242.0	1.0	3.0	20.0	V-Horn	PK	0.0	58.9	74.0	-15.1	8DPSK, 3DH5, PC typical orientation
2484.217	36.5	2.2	240.0	1.0	3.0	20.0	V-Horn	PK	0.0	58.7	74.0	-15.3	pi/4-DQPSK, 2DH5, PC typical orientation
2483.783	36.4	2.2	115.0	1.0	3.0	20.0	V-Horn	PK	0.0	58.6	74.0	-15.4	GFSK, DH5, PC screen horizontal
2484.251	36.4	2.2	186.0	1.2	3.0	20.0	H-Horn	PK	0.0	58.6	74.0	-15.4	GFSK, DH5, PC screen horizontal
2484.313	36.4	2.2	26.0	1.0	3.0	20.0	H-Horn	PK	0.0	58.6	74.0	-15.4	GFSK, DH5, PC typical orientation
2483.591	36.0	2.2	360.0	1.2	3.0	20.0	H-Horn	PK	0.0	58.2	74.0	-15.8	8DPSK, 3DH5, PC typical orientation
2484.463	36.0	2.2	247.0	1.2	3.0	20.0	H-Horn	PK	0.0	58.2	74.0	-15.8	pi/4-DQPSK, 2DH5, PC typical orientation

