Spectrum Technology

IX600-MC8765

July 21, 2006

Report No. SPTE0026.1

Report Prepared By



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22975 NW Evergreen Parkway Suite 400 Hillsboro, Oregon 97124

Certificate of Test

Issue Date: July 21, 2006 Spectrum Technology Model: IX600-MC8765

Emissions									
Test Description	Specification	Test Method	Pass	Fail					
Radiated Emissions	FCC 15.109(a) Class B:2005-10	ANSI C63.4:2003	\boxtimes						
Conducted Emissions	FCC 15.107 Class B:2005-10	ANSI C63.4:2003	\boxtimes						

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

Approved By:

Greg Kiemel, Director of Engineering

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 History

Revision 05/05/03

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, ANSI C63.4, MIL-STD 461E, DO-160D and SAE J1113. 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.



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



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



TÜV Product Service: Included in TUV Product Service Group's Listing of Recognized Laboratories. It qualifies in connection with the TUV Certification after Recognition of Agent's Testing Program for the product categories and/or standards shown in TUV's current Listing of CARAT Laboratories, available from TUV. A certificate was issued to represent that this laboratory continues to meet TUV's CARAT Program requirements. Certificate No. USA0401C.



TUV 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, and R-2318, Irvine: C-2094 and R-1943, Sultan: R-871, C-1784 and R-1761).*



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.



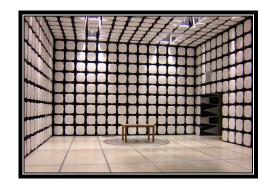
GOST: Northwest EMC, Inc. has been assessed and accredited by the Russian Certification bodies Certinform VNIINMASH, CERTINFO, SAMTES, and Federal CHEC, to perform EMC and Hygienic testing for Information Technology Products. As a result of their laboratory assessment, they will accept test results from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



SCOPE

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

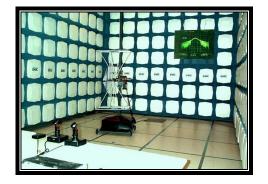




California – Orange County Facility Labs OC01 – OC13

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



Product Description

Revision 10/3/03

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:	IX600-MC8765
First Date of Test:	June 06, 2006
Last Date of Test:	June 16, 2006
Receipt Date of Samples:	May 30, 2006
Equipment Design Stage:	Production
Equipment Condition:	No visual damage.

Information Provided by the Party Requesting the Test

Functional Description of the EUT (Equipment Under Test):

GSM/GPRS radio installed in an Itronix notebook computer.

Client Justification for Test Selection:

These tests are required to demonstrate compliance with FCC 15B requirements for the digital portion of the GSM/GPRS radio while configured in the Itronix IX600 notebook computer.



CONFIGURATION 3 SPTE0026

Software/Firmware Running during test					
Description	Version				
Procomm Plus Terminal	4.8 Build 71				

EUT			
Description	Manufacturer	Model/Part Number	Serial Number
EUT	Itronix, Corp.	IX600-MC8765	359226000004984

Peripherals in test setup boundary									
Description	Manufacturer	Model/Part Number	Serial Number						
Internal Antenna	Skycross	59-0479-001	Unknown						
Host IX600 Notebook PC	Itronix, Corp.	IX-600	None						
Host IX600 Notebook PC	Itronix, Corp.	IX-600	ZZGEG6072ZZ5515						
AC Adapter	Delta Electronics	SADP-65KB D	92W0540003980						
AC Adapter	Delta Electronics	SADP-65KB D	92W0540003970						
CF Card Reader	Itronix, Corp.	SDDR-91	None						
Mouse	Logitech	M-BE58	LZE02357693						
Headphones	Unknown	None	None						

Cables					
Cable Type	Shield	Length (m)	Ferrite	Connection 1	Connection 2
AC Power	No	1.8m	No	AC Adapter	AC Mains
USB	Yes	1.0m	No	Host IX600 Notebook PC	Unterminated
USB	Yes	1.0m	No	Host IX600 Notebook PC	CF Card Reader
Serial	Yes	1.0m	No	Host IX600 Notebook PC	Unterminated
Ethernet	Yes	1.0m	No	Host IX600 Notebook PC	Unterminated
Modem	Yes	1.0m	No	Host IX600 Notebook PC	Unterminated
Microphone	Yes	1.0m	No	Host IX600 Notebook PC	Unterminated
Speaker	Yes	1.0m	No	Host IX600 Notebook PC	Headphones
VGA	Yes	1.0m	No	Host IX600 Notebook PC	Unterminated
PA = Ca	ble is permar	ently attached to t	he device. S	hielding and/or presence of ferrite ma	ay be unknown.

Modifications

Revision 4/28/03

	Equipment modifications								
Item	Date	Test	Modification	Note	Disposition of EUT				
1	6/6/2006	Conducted Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	EUT remained at Northwest EMC following the test.				
2	6/16/2006	Radiated Emissions	Tested as delivered to Test Station.	No EMI suppression devices were added or modified during this test.	Scheduled testing was completed.				

PSA 2006.05.30

RADIATED EMISSIONS

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

MODES OF OPERATION

Receive mode GSM Cellular band

POWER SETTINGS INVESTIGATED

120VAC/60Hz

FREQUENCY RANGE INVESTIGATED						
Start Frequency	30 MHz	Stop Frequency	5 GHz			

CLOCKS AND OSCILLATORS

Unknown

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
Pre-Amplifier	Miteq	AMF-4D-010100-24-10P	APW	8/2/2005	13
Pre-Amplifier	Miteq	AM-1616-1000	AOL	1/4/2006	13
Antenna, Biconilog	EMCO	3141	AXE	12/28/2005	24
Antenna, Horn	EMCO	3115	AHC	8/30/2005	12
Spectrum Analyzer	Agilent	E4446A	AAT	4/4/2006	12

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						
N	Measurements were made us	ing the bandwidths and dete	ectors specified. No video filte	er 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, a final radiated emissions test was performed. The frequency range investigated (scanned), is also noted in this report. Radiated emissions measurements were made at the EUT azimuth and antenna height such that the maximum radiated emissions level will be detected. This requires the use of a turntable and an antenna positioner. The preferred method of a continuous azimuth search is utilized for frequency scans of the EUT field strength with both polarities of the measuring antenna. A calibrated, linearly polarized antenna was positioned at the specified distance from the periphery of the EUT.

Tests were made with the antenna positioned in both the horizontal and vertical planes of polarization. The antenna was varied in height above the conducting ground plane to obtain the maximum signal strength. Though specified in the report, the measurement distance shall be 3 meters or 10 meters. At any measurement distance, the antenna height was varied from 1 meter to 4 meters. These height scans apply for both horizontal and vertical polarization, except that for vertical polarization the minimum height of the center of the antenna shall be increased so that the lowest point of the bottom of the antenna clears the ground surface by at least 25 cm.

NORTHWEST **RADIATED EMISSIONS DATA SHEET EMC** EUT: IX600-MC8765 Work Order: SPTE0026 Serial Number: 359226000004984 Date: 06/16/06 **Customer: Spectrum Technology** Temperature: 23 Attendees: None Humidity: 41% Project: None Barometric Pres.: 29.98 Tested by: Holly Ashkannejhad Power: 120VAC/60Hz Job Site: EV01 **TEST SPECIFICATIONS** FCC 15.109(a) Class B:2005-10 ANSI C63.4:2003 TEST PARAMETERS Antenna Height(s) (m) 1 - 4 Test Distance (m) 3 COMMENTS Internal antenna. Notebook configuration. EUT OPERATING MODES Receive mode GSM Cellular band DEVIATIONS FROM TEST STANDARD No deviations. Signature Holy Aling Run# 37 Configuration # 3 Results Pass NVLAP Lab Code 200630-0 120.0 100.0 0.08 dBuV/m 60.0 40.0 \$ • • \$ • 20.0 0.0 10.000 100.000 1000.000 MHz External Distance Compared to Amplitude Factor Azimuth Heiaht Distance Polarity Adjusted Spec. Limit Frea Detector Attenuation Adjustmen Spec. (dBuV) (dB) (degrees) (meters) (dB) (dB) dBuV/m dBuV/m (dB) (meters) (MHz) H-Bilog -5.2 1.7 QP 39.2 166.639 44 4 338.0 3.0 0.0 0.0 43.5 -4.3 QΡ 762.967 31.4 9.3 149.0 1.2 3.0 0.0 V-Bilog 0.0 40.7 46.0 -5.3 166.639 42.4 -5.2 172.0 1.0 3.0 0.0 V-Bilog QP 0.0 37.2 43.5 -6.3 497.616 31.5 4.8 305.0 1.7 3.0 0.0 H-Bilog QP 0.0 36.3 46.0 -9.7 500.006 4.8 V-Bilog QΡ 46.0 -10.5 30.7 56.0 1.0 3.0 0.0 0.0 35.5 QΡ 433.324 31.4 3.6 210.0 1.0 3.0 0.0 H-Bilog 0.0 35.0 46.0 -11.0 V-Bilog QP 366 657 0.0 32 4 22 31.0 1.7 3.0 0.0 34 6 46.0 -114 366.649 V-Bilog QP 32.2 2.2 22.0 1.5 3.0 0.0 0.0 34.4 46.0 -11.6 829.293 23.9 10.2 95.0 1.9 3.0 0.0 V-Bilog QP 0.0 34.1 46.0 -11.9 60.018 33.8 -6.4 360.0 3.1 3.0 0.0 V-Bilog QP 0.0 27.4 40.0 -12.6 829.292 22.2 10.2 237.0 1.0 3.0 0.0 H-Bilog QΡ 0.0 32.4 46.0 -13.6 V-Bilog QP 64.010 32.8 -6.8 301.0 3.3 3.0 0.0 0.0 26.0 40.0 -14.0 V-Bilog QP 432.021 24.9 3.6 226.0 1.5 3.0 0.0 0.0 28.5 46.0 -17.5 QP

H-Bilog

0.0

20.9

46.0

-25.1

364.942

18.8

2.1

2.0

3.4

3.0

0.0

NORTHWEST **RADIATED EMISSIONS DATA SHEET EMC** EUT: IX600-MC8765 Work Order: SPTE0026 Serial Number: 359226000004984 Date: 06/16/06 Customer: Spectrum Technology Temperature: 23 Attendees: None Humidity: 41% Barometric Pres.: 29.98 Project: None Tested by: Holly Ashkannejhad Power: 120VAC/60Hz Job Site: EV01 FCC 15.209(a):2005-9 ANSI C63.4:2003 TEST PARAMETERS Test Distance (m) 3 Antenna Height(s) (m) 1 - 4 COMMENTS Internal antenna. Notebook configuration. EUT OPERATING MODES Receive mode GSM Cellular band **DEVIATIONS FROM TEST STANDARD** No deviations. Signature Holy Aling 38 Run# Configuration # 3 Results Pass NVLAP Lab Code 200630-0 120.0 100.0 0.08 dBuV/m 60.0 40.0 20.0 0.0 1000.000 1500.000 2000.000 2500.000 3000.000 3500.000 4000.000 4500.000 5000.000 MHz External Distance Compared to Amplitude Azimuth Distance Polarity Adjusted Spec. Limit Frea Factor Height Detector Attenuation Adjustmen Spec. (dBuV) (meters) (dB) (dB) dBuV/m dBuV/m (MHz) (dB) (degrees) (meters) (dB) V-Horn ΑV 31.1 2280.071 31.1 0.0 71.0 1.0 3.0 0.0 0.0 54.0 -22.9 1595.320 31.6 -2.9 278.0 1.2 3.0 0.0 H-Horn ΑV 0.0 28.7 54.0 -25.3 1030.980 33.4 -5.3 331.0 1.2 3.0 0.0 H-Horn ΑV 0.0 28.1 54.0 -25.9 1592.390 51.0 -2.9 278.0 1.2 3.0 H-Horn PΚ 0.0 48.1 74.0 -25.9 0.0 2280.056 27.8 0.0 277.0 1.2 3.0 0.0 H-Horn ΑV 0.0 27.8 54.0 -26.2 1595.940 -2.9 347.0 3.0 V-Horn ΑV 0.0 27.6 54.0 -26.4 30.5 1.1 0.0 V-Horn 2499 720 27 1 0.5 128 0 1.0 3.0 0.0 ΑV 0.0 27 6 54.0 -26 4 1030.960 32 4 -5.3 37.0 1.0 3.0 0.0 V-Horn ΑV 0.0 27.1 54.0 -26.92488.080 26.1 0.5 149.0 1.2 3.0 0.0 H-Horn ΑV 0.0 26.6 54.0 -27.4 1600.410 49.0 -2.9 347.0 1.1 3.0 0.0 V-Horn PK 0.0 46.1 74.0 -27.9 2488.030 45.5 0.5 128.0 1.0 3.0 V-Horn PΚ 0.0 46.0 74.0 -28.0 0.0 V-Horn 1107.442 30.4 -5.0 10.0 1.0 3.0 0.0 ΑV 0.0 25.4 54.0 -28.6 1200.050 28.7 -4.5 203.0 1.0 3.0 0.0 V-Horn ΑV 0.0 24.2 54.0 -29.8 H-Horn 23.0 -31.0 1191.970 27.5 -4.5 -1.0 1.5 3.0 0.0 ΑV 0.0 54.0 H-Horn 2495 600 0.5 149 0 PK 74 0 42 4 12 3.0 0.0 0.0 429 -31 1 2280.118 41.1 0.0 71.0 1.0 3.0 0.0 V-Horn PK 0.0 41.1 74.0 -32.91028.470 46.2 -5.3 331.0 1.2 3.0 0.0 H-Horn PΚ 0.0 40.9 74.0 -33.1

1107.446

1033.210

2279.819

1199,920

25.2

45.4

39.3

41.9

-5.0

-5.3

0.0

-4.5

221.0

37.0

277.0

203.0

1.2

1.0

1.2

1.0

3.0

3.0

3.0

3.0

0.0

0.0

0.0

0.0

H-Horn

V-Horn

H-Horn

V-Horn

ΑV

PΚ

PΚ

PK

0.0

0.0

0.0

0.0

20.2

40.1

39.3

37.4

54.0

74.0

74.0

74.0

-33.8

-33.9

-34.7

-36.6

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)
1107.265	40.7	-5.0	10.0	1.0	3.0	0.0	V-Horn	PK	0.0	35.7	74.0	-38.3
1198.890	39.0	-4.5	-1.0	1.5	3.0	0.0	H-Horn	PK	0.0	34.5	74.0	-39.5
1107.689	37.7	-5.0	221.0	1.2	3.0	0.0	H-Horn	PK	0.0	32.7	74.0	-41.3

Radiated Emissions





CONDUCTED EMISSIONS

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

MODES OF OPERATION

Receive mode GSM Cellular band

POWER SETTINGS INVESTIGATED

120VAC/60Hz

SAMPLE CALCULATIONS

 $Conducted \ Emissions: \ Adjuste \underline{\underline{\underline{Level}}} = \underline{\underline{Measured}} \ \underline{\underline{\underline{Level}}} + \underline{\underline{Transducer}} \ Factor + \underline{Cable} \ Attenuation \ Factor + \underline{External} \ Attenuator \ \underline{\underline{Level}} = \underline{\underline{Level}} + \underline{\underline{Level$

TEST EQUIPMENT					
Description	Manufacturer	Model	ID	Last Cal.	Interval
Spectrum Analyzer	Hewlett-Packard	8568B	AAI	12/21/2005	13
Quasi-Peak Adapter	Hewlett-Packard	85650A	AQD	12/21/2005	13
High Pass Filter	T.T.E.	7766	HFG	12/19/2005	13
LISN	Solar	9252-50-R-24-BNC	LIQ	12/13/2005	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 u	ising the bandwidths and dete	ectors specified. No video filt	er 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 .

NORTHWEST **CONDUCTED EMISSIONS DATA SHEET EMC** EUT: IX600-MC8765 Work Order: SPTE0026 Date: 06/06/06 Serial Number: 359226000004984 Customer: Spectrum Technology Temperature: 23 Attendees: None Humidity: 47% Project: Noe Barometric Pres.: 29.98 Tested by: Rod Peloquin Power: 120VAC/60Hz Job Site: EV07 TEST SPECIFICATIONS FCC 15.107 Class B:2005-10 ANSI C63.4:2003 TEST PARAMETERS Cable or Line Tested L1 COMMENTS Internal antenna. Notebook standalone configuration. EUT OPERATING MODES Receive mode GSM Cellular band. DEVIATIONS FROM TEST STANDARD No deviations. Run# Rochy la Rely Configuration # 3 Results Pass NVLAP Lab Code 200630-0 Signature 80 70 60 50 dBuV 40 30 20 10 0 0.1 10 100 1 MHz External compared to Amplitude Spec. Limit Frea Transducer Cable Adjusted Attenuation Detector dBuV (dBuV) (dB) blank equal peak [PK] from scan) (dB) (dB) dBuV (dB) (MHz) 53.9 0.193 31.2 0.0 0.0 20.0 51.2 -2.7 0.745 21.3 0.0 0.0 20.0 41.3 46.0 -4.7 0.181 28.0 0.0 0.0 20.0 48.0 54.5 -6.5 0.374 41.7 48.4 21.7 0.0 0.0 20.0 -6.7 0.156 28.7 0.0 0.0 20.0 48.7 55.7 -7.0 0.175 26.6 0.0 0.0 20.0 46.6 54 7 -8 1 4.527 17.4 0.0 0.0 20.0 37.4 46.0 -8.6 0.263 22.7 0.0 0.0 20.0 42.7 51.4 -8.7 4.977 17.3 0.0 0.0 20.0 37.3 46.0 -8.7 4.637 16.7 0.0 0.0 20.0 36.7 46.0 -9.3 4.847 -9.3 16.7 0.0 0.0 20.0 36.7 46.0 4.587 16.6 0.0 0.0 20.0 36.6 46.0 -9.4 -9.7 4.917 0.0 20.0 36.3 46.0 16.3 0.0 -9.8 4 787 162 0.0 0.0 20.0 36.2 46.0

0.810

0.165

4.717

4.457

0.171

15.8

24.9

15.4

15.3

24.2

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

20.0

20.0

20.0

20.0

20.0

35.8

44.9

35.4

35.3

44.2

46.0

55.2

46.0

46.0

54.9

-10.2

-10.3

-10.6

-10.7

-10.7

NORTHWEST **CONDUCTED EMISSIONS DATA SHEET EMC** EUT: IX600-MC8765 Work Order: SPTE0026 Date: 06/06/06 Serial Number: 359226000004984 Customer: Spectrum Technology Temperature: 23 Attendees: None Humidity: 47% Project: None Barometric Pres.: 29.98 Tested by: Rod Peloquin Power: 120VAC/60Hz Job Site: EV07 TEST SPECIFICATIONS FCC 15.107 Class B:2005-10 ANSI C63.4:2003 TEST PARAMETERS Cable or Line Tested N COMMENTS Internal antenna. Notebook standalone configuration. EUT OPERATING MODES Receive mode GSM Cellular band. DEVIATIONS FROM TEST STANDARD No deviations. Run# 2 Configuration # 3 Results Pass NVLAP Lab Code 200630-0 Signature 80 70 60 50 dBuV 40 30 20 10 0 0.1 10 100 1 MHz External compared to Amplitude Spec. Limit Frea Transducer Cable Adjusted Attenuation Detector dBuV (dBuV) (dB) blank equal peak [PK] from scan) (dB) (dB) dBuV (dB) (MHz) 53.9 0.194 31.5 0.0 0.0 20.0 51.5 -2.4 0.179 28.5 0.0 0.0 20.0 48.5 54.5 -6.0 0.744 19.0 0.0 0.0 20.0 39.0 46.0 -7.0 0.260 -7.7 23.7 0.0 0.0 20.0 43.7 51.4 4.847 17.3 0.0 0.0 20.0 37.3 46.0 -8.7 0.372 197 0.0 0.0 20.0 39 7 48 4 -87 4.587 17.0 0.0 0.0 20.0 37.0 46.0 -9.0 0.322 20.6 0.0 0.0 20.0 40.6 49.7 -9.1 4.977 16.7 0.0 0.0 20.0 36.7 46.0 -9.3

4.457

0.161

4.787

4.387

4 717

0.391

4.917

0.153

4.657

0.170

16.6

26.0

16.4

16.3

159

17.9

15.7

25.1

23.8

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

0.0

20.0

20.0

20.0

20.0

20.0

20.0

20.0

20.0

20.0

20.0

36.6

46.0

36.4

36.3

35.9

37.9

35.7

45.1

34.9

43.8

46.0

55.4

46.0

46.0

46.0

48.0

46.0

55.9

55.0

-9.4 -9.4

-9.6 -9.7

-10.1

-10.1

-10.3

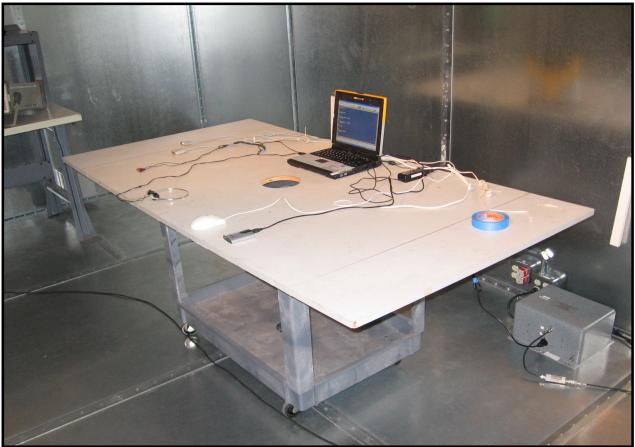
-10.8

-11.1

-11.2

Conducted Emissions





Conducted Emissions

