

	Test Report Serial No.:	042406KBC-T742-E24GWC	Report Issue Date:	October 19, 2006
1	Date(s) of Evaluation:	April 25 - July 31, 2006	<b>Report Revision No.:</b>	Revision 1.0
	Test Standard(s) Applied:	FCC 47 CFR §2, §22H, §24E	Industry Canada RS	S-132, RSS-133
s Lab	Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada L	ab File #3874

## **ELECTROMAGNETIC COMPATIBILITY**

# **EMC TEST REPORT**

FCC 47 CFR PART 22 SUBPART H FCC 47 CFR PART 24 SUBPART E

INDUSTRY CANADA RSS-132 ISSUE 2 INDUSTRY CANADA RSS-133 ISSUE 3

FOR

### **ITRONIX CORPORATION**

### MODEL: IX325-AC860BT

### **IX325 SERIES RUGGED TABLET PC**

WITH INTERNAL

DUAL-BAND GSM/GPRS/EDGE/UMTS PCMCIA MODEM

### FCC ID: KBCIX325-AC860BT

### IC ID: 1943A-IX325g

Test Report Serial No. 042406KBC-T742-E24GWC

Test Report Revision No. Revision 1.0 (Initial Release)

Test Lab and Location

Celltech Compliance Testing & Engineering Lab (Celltech Labs Inc.) 1955 Moss Court Kelowna, BC Canada V1Y 9L3

Company:	Itron	ix Corpora	tion	FCC ID:	KBCIX325-AC860BT	IC ID:	1943A-IX325g	IT	RONIX
Model(s): IX325-AC860E		AC860BT	IX325	Rugged Tabl	et PC with Dual-Band GS	M/GPRS/ED			AL DYNAMICS COMPANY
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ch	Test Standard(s) Applied:	FCC 47 CFR §2, §22H, §24E	Industry Canada RSS-132, RSS-133		
Services Lab Registration(s):		FCC Lab Registration #714830	Industry Canada Lab File #3874		

	DECLARATION OF COMPLIANCE															
Test Lab and Location	Testing 1955 M Kelown	and Eng oss Cour	ineering S t						<u>Comp</u> Inforn	<u>any</u> nation	1282 Spok	5 E. M	ORPORATION lirabeau Parkwa alley, WA 99210 es	ay		
Phone:	250-448	3-7047		Fax:	: 25	0-448-7	048									
E-mail:	info@c	elltechlab	s.com	Web	site:	www.c	elltechla	abs.co	n							
Lab Registration	<u>No.(s):</u>	FCC:	714830	)				IC:		IC 387	74					
Rule Part(s):		FCC:	§2; §22	2H; §24	4E			IC:		RSS-1	132 Issue	2, RSS	i-133 ls	ssue 3		
Device Classifica	tion:	FCC:	PCS Lic	cense	d Trans	mitter (I	PCB)	IC:						Employing New on Services	/ Те	chnologies
Device Identifica	tion:	FCC:	KBCIX3	325-A	C860BT			IC:		1943A	-IX325g					
Device Des	scription	:		Rug	ged Ta	blet PC			Devi	ce Mo	del(s):	_		IX325-AC860	ЗT	
Internal Trans	smitter Ty	ype:	Dual-	-Band	GSM/C	SPRS/E	DGE/UI	MTS P	СМС	CIA Mo	A Modem Sierra Wireless Model: AirCard 860			ard 860		
Transmit Freque	ency Ran	ide(s).	GSM/G	SM/GPRS/EDGE Cellular		lar Ban	d 8	824.2 - 848.8 MHz		PCS Band 1850.2 - 1909.8 MH		9.8 MHz				
		.go(o).	UMTS		Cellu	lular Band 826		26.4	- 846	.6 MHz	PCS Band		l 1852.4 - 1907.5 MHz			
Receive Freque	ency Ran	qe(s):	GSM/GPRS/EDGE Cellular I			lar Ban	d 8			PCS E		1930.2 - 1	198	9.8 MHz		
		<b>J</b> - ( - )	-	UMTS Cellul		lar Ban		871.4 - 891.6 MHz		PCS E		1932.4 - 1	198	7.5 MHz		
Maximum RF	Conduc	ted	GPRS	-	Cellular Band 32.			8 dBm		1.69 Watts		PCS E		28.63 dBm		.729 Watts
Output Powe	r Measur	ed:	EDGE		Cellula			9 dBm 0.489 Watts		PCS E		25.73 dBm	-	.374 Watts		
			UMTS	-	Cellula			0 dBm	0.251 Watts		PCS E		23.00 dBm	-	.200 Watts	
Max. ERP/EIR	DMassa	ve di	GPRS		Cellula			0 dBm	_	0.794 Watts		PCSE		30.24 dBm		1.06 Watts
	Pilleasu	rea:	EDGE		Cellula			1 dBm	_		Watts			30.37 dBm		1.09 Watts
0011 7			UMTS	-	Cellula			8 dBm	_		Watts	PCSE		23.07 dBm		0.203 Watts
GSM Trans GSM Multis			Class I Class 1	-	21	can be Jplink S							-	nly one service a	at a	time
			GPRS			-	RS 1900	<b>n</b> .	1	. Sour	EDGE 8		E2	EDGE 1900	<b>.</b>	25% E2
GSM Power Class: WCDMA Power Class:		UMTS				TS 1900		3			su. Iximum			J.	100%	
WCDMA Uplink Channels:		OIVE S	000.				J.	5		IVIC	Annum		PDCH Channel		10070	
Modulation Type(s) Tested:				GP	RS: GN		namei			EDG	E: 8-PSK				NC	DMA
Antenna Type(s) Tested:			Exte	-	Hinged I	-	le			-	Wireless		UMTS: WCDMA attached to AirCard 860			
Internal Bat			LAC		thium-ic				1					Model: T8M-E		
Power Source					ower Ac				11.1 V, 3600 mAh 75 Watt				Model: ADP-75FB B			
Power Sourc	e(s) lest	ed:		AC P	ower Ac	apter			75 VV att Mode			wodel: AL	iP-7	OLR R		

This wireless device has demonstrated compliance with the applicable technical standards as indicated in the measurement report and was tested in accordance with the measurement procedures specified in FCC 47 CFR Rule Parts 2, 22H, 24E; Industry Canada RSS-132 Issue 2, RSS 133 Issue 3; and ANSI TIA/EIA-603-C-2004.

I attest to the accuracy of the data. All measurements reported herein were performed by me or were under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

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eering Services Lab	Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada L	ab File #3874	

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Company:	Itronix Corporation		FCC ID:	KBCIX325-AC860BT	IC ID:	1943A-IX325g	IT	RONIX®
Model(s):						AL DYNAMICS COMPANY		
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	TEST SUMMARY									
	Referenced Standard(s): FCC CFR Title 47 Parts 2, 22 & 24									
<u>Appendix</u>	Test Description	Procedure Reference	Limit Reference	<u>Test Start</u> <u>Date</u>	<u>Test End</u> Date	<u>Result</u>				
А	Conducted RF Output Power	FCC 97-114, §2.1046	N/A	25Apr06	25Apr06	N/A				
В	Effective Radiated Power Effective Isotropic Radiated Power	ANSI/TIA/EIA-603-C	§22.913 §24.232(b)	27Jun06	27Jun06	Pass				
С	Radiated Spurious Emissions	ANSI/TIA/EIA-603-C	§22.917 (a), §24.238 (a)	27Jul06	31Jul06	Pass				
	Referenced Stand	ard(s): IC RSS-132 Issue	e 2 & RSS-133 Issu	ie 3						
А	Conducted RF Output Power	ANSI/TIA/EIA-603-C	N/A	25Apr06	25Apr06	N/A				
В	Effective Radiated Power Effective Isotropic Radiated Power	ANSI/TIA/EIA-603-C	RSS-132 §4.4 RSS-133 §6.4	27Jun06	27Jun06	Pass				
С	Radiated Spurious Emissions	ANSI/TIA/EIA-603-C	RSS-132 §4.5 RSS-133 §6.5	27Jul06	31Jul06	Pass				

### **REVISION LOG**

Revision	Revision Description		Implementation Date
1.0	1.0 Initial Release		October 19, 2006

### SIGNATORIES

Prepared By:	Spencer Watton	August 11, 2006
Name/Title:	Spencer Watson / EMC Manager	Date
Reviewed By:	<del>The</del>	October 19, 2006
Name/Title:	Jonathan Hughes / General Manager	Date

Company: Itronix		Itronix Corporation		FCC ID:	KBCIX325-AC860BT	IC ID:	1943A-IX325g	IT	RONIX®
Model(s): IX325-AC860BT IX325 Rugged Tablet PC with Dual-Band GSM/GPRS/EDGE/UMTS Modem									
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Testing and Engineering Services Lab	Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada Lab File #3874	

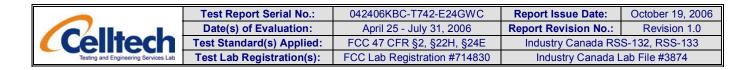
### 1.0 <u>SCOPE</u>

This report outlines the measurements made and results collected during electromagnetic emissions testing of the Itronix Corporation Model: IX325-AC860BT Rugged Tablet PC utilizing the Sierra Wireless AirCard 860 Dual-Band GSM/GPRS/EDGE/UMTS PCMCIA Modem. The Sierra Wireless AirCard 860 external hinged monopole antenna was connected to the PCMCIA Card. The measurement results were applied against the applicable EMC requirements and limits outlined in the technical rules and regulations set forth in the Federal Communication Commission Code of Federal Regulations Title 47 Parts 2, 22 Subpart H, and 24 Subpart E; and Industry Canada Radio Standards Specification RSS-132 Issue 2, and RSS-133 Issue 3.

### 2.0 <u>REFERENCES</u>

2.1 Normative References	
ANSI/ISO 17025:1999	General Requirements for competence of testing and calibration laboratories
IEEE/ANSI C63.4:2003	Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
IEEE/ANSI Std C95.1:1999	American National Standard Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields
ANSI/TIA/EIA-603-C:2004	Land Mobile FM or PM Communication Equipment Measurement and Performance Standards
CFR Title 47 Part 2:2005	Code of Federal Regulations Title 47: Telecommunication Part 2: Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
CFR Title 47 Part 22:2005	Code of Federal Regulations Title 47: Telecommunication Part 22: Public Mobile Services
CFR Title 47 Part 24:2005	Code of Federal Regulations Title 47: Telecommunication Part 24: Personal Communication Services
IC Spectrum Management & Telecommunications Policy	Radio Standards Specification RSS-102 Issue 2 - Radio Frequency Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) RSS-132 Issue 2 - 800 MHz Cellular Telephones Employing New Technologies RSS-133 Issue 3 - 2 GHz Personal Communication Services RSS-212 Issue 1 (Provisional) - Test Facilities & Test Methods for Radio Equipment RSS-Gen Issue 1 - General Requirements and Information for the Certification of Radiocommunication Equipment SRSP-503 Issue 6 - Technical Requirements for Cellular Radiotelephone Systems Operating in the Bands 824 - 849 MHz and 869 - 894 MHz

Company:	Itronix Corporation		any: Itronix Corporation FCC ID: KBCIX325-AC860BT IC ID: 1943A-IX325		1943A-IX325g	IT	RONIX®	
Model(s):	Model(s): IX325-AC860BT IX32		Rugged Tab	let PC with Dual-Band GS	M/GPRS/ED	GE/UMTS Modem		AL DYNAMICS COMPANY
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### 3.0 TERMS AND DEFINITIONS

Company:	Itron	Itronix Corporation		FCC ID:	KBCIX325-AC860BT	IC ID:	1943A-IX325g	IT	RONIX
Model(s):	Model(s): IX325-AC860BT IX32			Rugged Tabl	et PC with Dual-Band GS	M/GPRS/ED			AL DYNAMICS COMPANY
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Celltech	Test Standard(s) Applied:	FCC 47 CFR §2, §22H, §24E	Industry Canada RS	S-132, RSS-133
Testing and Engineering Services Lab	Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada Lab File #3874	

### 4.0 FACILITIES AND ACCREDITATIONS

The facilities used in collecting the test results outlined in this report are located at 1955 Moss Court, Kelowna, British Columbia, Canada, V1Y 9L3. The radiated and conducted emissions sites conform with the requirements set forth in ANSI C63.4 and are filed and listed with the FCC under Registration Number 714830 and Industry Canada under File Number IC 3874.

#### 5.0 GENERAL INFORMATION

#### 5.1 Applicant Information

Company Name:	Itronix Corporation
Address:	12825 E. Mirabeau Parkway
	Spokane Valley, WA 99216
	United States

#### 5.2 DUT Description

The DUT consisted of the IX325 Rugged Tablet PC utilizing the internal Sierra Wireless AirCard 860 Dual-Band GSM/GPRS/EDGE/UMTS PCMCIA Modem with external hinged monopole antenna on the PCMCIA Card.

Device under Test:	IX325 Ru	IX325 Rugged Tablet PC				
Model(s):	IX325-AC	860BT	Serial Number:		ZZGEG5073ZZ9784	
Identifier(s):	FCC ID:	KBCIX325-AC860BT	IC:	1943A-IX325g		
Internal Battery:	11.1V Lith	11.1V Lithium-ion Battery, 3.6Ah (Model: T8M-E)				
Power Source Tested:	75 Watt A	5 Watt AC Power Adapter (Delta Electronics Inc. Model: ADP-75FB B)				

Internal Transmitter:	Dual-Ba	Dual-Band GSM/GPRS/EDGE/UMTS PCMCIA Modem					
Manufacturer/Model:	Sierra V	Vireless AirCard 860	Serial Number:	357806000465210			
Rule Part(s) Tested:	FCC:	§2.1091; §22.913, §22.917; §24					
	IC:	RSS-132 Issue 2, RSS-133 Issue 3					
	FCC:	PCS Licensed Transmitter (PCB)					
Device Classification(s):	IC:	800 MHz Cellular Telephones employing New Technologies (RSS-132)					
	10.	2 GHz Personal Communication Services (RSS-133)					

Antenna Type:	External Hinged Monopole Antenna
Model:	Sierra Wireless AirCard 860 Antenna

Company:	ltror	Itronix Corporation		FCC ID:	KBCIX325-AC860BT	IC ID:	1943A-IX325g		RONIX®
Model(s):	IX325-AC860BT IX32		IX325	Rugged Tab	let PC with Dual-Band GS	M/GPRS/ED			AL DYNAMICS COMPANY
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#### 5.3 Mode(s) of Operation Tested

Of the three modes, GPRS, EDGE and UMTS, GPRS and EDGE were considered similar in modulation type, channel frequency and relative power level. G-TEM measurements were made in all three modes of operation and the worst case for GPRS and EDGE was chosen for prescan measurements.

#### 5.3.1 Dual-Band GPRS

Customer supplied software was used to set the GPRS mode to the appropriate channel and power level for the specific measurement. Between PCS band GPRS and EDGE modes, PCS GPRS was found to have higher radiated emissions when tested in a G-TEM and therefore prescan measurements were made with the PCS GPRS band set to the low, mid and high channels. Final measurements were made of all significant emissions. Between Cell band GPRS and EDGE modes, Cell band EDGE was found to have higher radiated emissions when tested in a G-TEM and therefore prescan measurements were made with the Cell band EDGE mode set to the low, mid and high channels. The following settings where used for each channel during G-TEM testing and all other tests performed.

#### 5.3.1.1 Cellular GPRS

Transmit Frequency Range:	824.2 - 848.8 MHz Ch. 128 (824.200 MHz), Ch. 190 (836.600 MHz) & Ch. 251 (848.800 MHz)			
Power Gain Settings:	The proprietary Sierra Wireless Procomm Plus test script was utilized to set the RF output power to maximum			
Modulation Type:	GMSK			

#### 5.3.1.2 PCS GPRS

Transmit Frequency Range:	1850.2 - 1909.8 MHz Ch. 512 (1850.2 MHz), Ch. 661 (1880.0) & Ch. 810 (1909.8 MHz)			
Power Gain Settings:	The proprietary Sierra Wireless Procomm Plus test script was utilized to set the RF output power to maximum			
Modulation Type:	GMSK			

#### 5.3.2 Dual-Band EDGE

Customer supplied software was used to set the EDGE mode to the appropriate channel and power level for the specific measurement. Between PCS band GPRS and EDGE modes, PCS GPRS was found to have higher radiated emissions when tested in a G-TEM and therefore prescan measurements were made with the PCS GPRS band set to the low, mid and high channels. Final measurements were made of all significant emissions. Between Cell band GPRS and EDGE modes, Cell band EDGE was found to have higher radiated emissions when tested in a G-TEM and therefore prescan measurements were made with the Cell band EDGE mode set to the low, mid and high channels. The following settings where used for each channel during G-TEM testing and all other tests performed.

#### 5.3.2.1 Cellular EDGE

Transmit Frequency Range:	824.2 - 848.8 MHz Ch. 128 (824.200 MHz), Ch. 190 (836.600 MHz) & Ch. 251 (848.800 MHz)
Power Gain Settings:	The proprietary Sierra Wireless Procomm Plus test script was utilized to set the RF output power to maximum
Modulation Type:	8-PSK

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ing Services Lab	Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada L	ab File #3874

#### 5.3.2.2 PCS EDGE

Transmit Frequency Range:	1850.2 - 1909.8 MHz Ch. 512 (1850.2 MHz), Ch. 661 (1880.0 MHz) & Ch. 810 (1909.8 MHz)			
Power Gain Settings:	The proprietary Sierra Wireless Procomm Plus test script was utilized to set the RF output power to maximum			
Modulation Type:	8-PSK			

#### 5.3.3 Dual-Band UMTS

The Anritsu MT8820A Radio Communications Test Set was used to set the UMTS mode to the appropriate channel and power level for the specific measurement via air-link. Prescan measurements were made with the UMTS mode set to the low, mid and high channels for each band. Final measurements were made of all significant emissions. The following settings were used for each channel.

#### 5.3.3.1 Cellular UMTS

Transmit Frequency Range:	826.4 - 846.6 MHz Ch. 4132 (826.4 MHz), Ch. 4182 (836.4 MHz) & Ch. 4233 (846.6 MHz)
Power Gain Settings:	The maximum output power setting was established using the Anritsu 8820A Radio Communications Test Set in "All Up Bits" power control mode
Modulation Type:	WCDMA

#### 5.3.3.2 PCS UMTS

Transmit Frequency Range:	1852.4 - 1907.5 MHz Ch. 9262 (1852.4 MHz), Ch. 9400 (1880.0 MHz) & Ch. 9538 (1907.5 MHz)
Power Gain Settings:	The maximum output power setting was established using the Anritsu 8820A Radio Communications Test Set in "All Up Bits" power control mode
Modulation Type:	WCDMA

#### 5.4 Configuration Description

The DUT was configured, as described by the client as being representative of what would be delivered to a final customer. Because the Tablet PC orientation can be user configured (0 degrees "landscape" or -90 degrees "portrait"), prescan evaluations were made to determine the configuration that resulted in the highest emissions. This prescan evaluation indicated that tablet carrier field strengths were maximized during cellular operation with the unit placed flat with the LCD facing up and the hinged monopole antenna positioned perpendicular with the ground plane. Maximized carrier field strengths during PCS operation occurred with the antenna edge of the tablet facing up and the hinged monopole antenna positioned parallel with the ground plane. More specific details may be included in each appendix.

#### 5.4.1 Configuration Justification

The DUT was tested in a configuration described by the client as being typical of normal use.

### 6.0 PASS/FAIL CRITERIA

Unless otherwise noted in the Appendices, the pass/fail criteria is the limit set forth in the reference standards. A DUT is considered to have passed the requirements, if the data collected during the described measurement procedure is no greater than the specified limits as defined. The pass/fail statements made in this report only apply to the unit tested.

Company:	ltron	ix Corpora	tion	FCC ID:	KBCIX325-AC860BT	IC ID:	1943A-IX325g	ITRONIX	
Model(s):	IX325-AC860BT IX325		Rugged Tabl	et PC with Dual-Band GS	M/GPRS/ED			AL DYNAMICS COMPANY	
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### **APPENDICES**

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Model(s): IX325-AC860BT IX3			IX325	5 Rugged Tablet PC with Dual-Band GSM/GPRS/EDGE/UMTS Modem					A GENERAL DYNAMICS COMPANY	
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### Appendix A - Conducted RF Output Power Measurement

A.1 REFERENCES	A.1 REFERENCES						
Normative Reference Standard	FCC CFR 47 §2.1046 (a)						
Procedure Reference	FCC 97-114						

A.2 LIMITS							
A.2.1 FCC CFR 47							
FCC CFR 47 §2.1046 (a)	For transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedures to give the values of current and voltage on the circuit elements specified in §2.1033(c) (8).						
*ERP and EIRP I	*ERP and EIRP limits are specified in Appendix B.						

A.3 ENVIRONMENTAL CONDITIONS						
Temperature	25 +/- 5 °C					
Humidity	40 +/- 10 %					
Barometric Pressure	101 +/- 3 kPa					

A.4 EQUIPMENT	A.4 EQUIPMENT LIST									
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE					
00110	Gigatronics	8652A	Power Meter	12Apr06	12Apr07					
00011	Gigatronics	80701A	Power Sensor	03Feb06	03Feb07					
00012	Gigatronics	80701A	Power Sensor	12Sept05	12Sept06					
00102	Pasternack	PE7015-3010	30 dB Attenuator	n/a*	n/a*					
00208	Anritsu	MT8820A	Radio Communications Test Set	06Jun06	06Jun07					
00078	Pasternack	PE2214-20	Directional Coupler 1-18 GHz	n/a*	n/a*					

\*Verified with power meter prior to use

Company:	Itron	ix Corporation	FCC ID:	KBCIX325-AC860BT	IC ID: 1943A-IX325g		ITRONIX		
Model(s):	Model(s): IX325-AC860BT IX3		(325 Rugged Tal	Rugged Tablet PC with Dual-Band GSM/GPRS/EDGE/UMTS Modem				A GENERAL DYNAMICS COMPANY	
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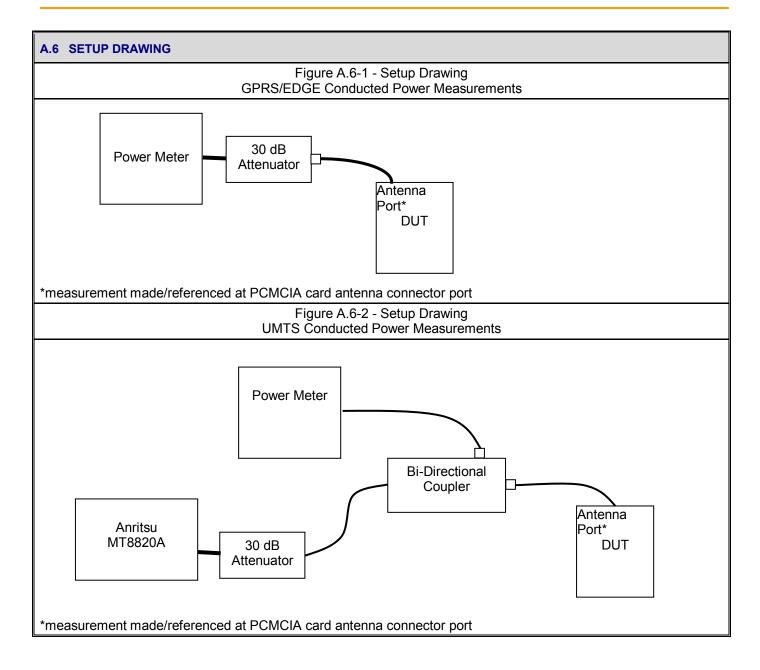


ch Services Lab	Test Report Serial No.:	042406KBC-T742-E24GWC	Report Issue Date:	October 19, 2006	
	Date(s) of Evaluation:	April 25 - July 31, 2006	<b>Report Revision No.:</b>	Revision 1.0	
	Test Standard(s) Applied:	FCC 47 CFR §2, §22H, §24E	Industry Canada RSS-132, RSS-13		
	Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada L	ab File #3874	

A.5 MEASUREMENT EC	UIPMENT SETUP				
Measurement Equipment Connections	The equipment was connected as shown in the setup drawing in A.6.				
Measurement Equipment Settings - GPRS and EDGE	Power Meter Settings: Mode - BAP Frequency compensation set for carrier frequency Offset set appropriately for attenuator characteristics				
Measurement Procedure - GPRS and EDGE	the RF conducted output power levels for both PCS and cellular bands in both GPRS and EDGE nodes were measured at the DUT antenna connector port using a Gigatronics 8652A Universal power Meter in burst average power mode. An offset was entered into the power meter to correct or the losses of the attenuator and cable installed between the transmitter output port and the ower sensor input. The proprietary Sierra Wireless Procomm Plus test script was used to set the DUT to transmit at maximum output power level as described in section 5.3 of this report. All ubsequent tests were performed using the same device setup procedures.				
Measurement Equipment Settings - UMTS	Power Meter Settings: Mode - MAP Frequency compensation set for carrier frequency Offset set appropriately for attenuator characteristics				
Measurement Procedure - UMTS	The RF conducted output power levels for both PCS and cellular bands were measured at the DUT antenna connector port using a Gigatronics 8652A Universal Power Meter in modulated average power mode. An offset was entered into the power meter to correct for the losses of the directional coupler and cable installed between the transmitter output port and the power sensor input. The Anritsu Radio Communications Test Set was utilized to set the DUT to transmit at maximum output power level as described in section 5.3 of this report. All subsequent tests were performed using the device setup procedures.				
PROCEDURES USED TO ESTABLISH TEST SIGNAL (UMTS)	The following settings were used to configure the Anritsu MT8820A Communications Test Set:Instrument InformationWCDMAApplication:WCDMAStandard:MX88200B 4.41 #003Scenario:MX882050ASerial Number:6200241241Call ParametersPreset:3GPPTest Loop Mode:Mode 1Channel Coding:Reference Measurement Channel 12.2 kbpsDTCH Data Pattern:PN9Power Control Algorithm:Algorithm 1TPC Step size:1dBPower Control Bit Pattern:All-Up BitsUL Channel:9262 / 9400 / 9538 4132 / 4182 / 4233DL Channel:9662 / 9800 / 9938 4357 / 4407 / 4458				

Company:	Itron	ix Corporation	FCC ID:	KBCIX325-AC860BT	IC ID:	1943A-IX325g		RONIX®
Model(s):	Model(s): IX325-AC860BT IX32		Rugged Tablet PC with Dual-Band GSM/GPRS/EDGE/UMTS Modem				A GENERAL DYNAMICS COMPANY	
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	Date(s) of Evaluation:	April 25 - July 31, 2006	<b>Report Revision No.:</b>	Revision 1.0
Celltech	Test Standard(s) Applied:	FCC 47 CFR §2, §22H, §24E	Industry Canada RS	S-132, RSS-133
Testing and Engineering Services Lab	Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada Lab File #3874	



	Company:	Itron	Itronix Corporation		FCC ID:	KBCIX325-AC860BT	IC ID: 1943A-IX325g		ITRONIX	
l	Model(s): IX325-AC860BT IX32			IX325	Rugged Tablet PC with Dual-Band GSM/GPRS/EDGE/UMTS Modem				A GENERAL DYNAMICS COMPANY	
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services Lab	Date(s) of Evaluation:	April 25 - July 31, 2006	<b>Report Revision No.:</b>	Revision 1.0	
	Test Standard(s) Applied:	FCC 47 CFR §2, §22H, §24E	Industry Canada RSS-132, RSS-13		
	Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada Lab File #3874		

#### A.7 DUT OPERATING DESCRIPTION

Power measurements were made in the cellular and PCS bands, with the DUT set appropriately as described in section 5.3.

A.8 TEST RESULTS							
Mode	Channel	Frequency	Conducted Power				
	128	824.2 MHz	+31.75 dBm	1.50 Watts			
Cellular GPRS	190	836.6 MHz	+31.84 dBm	1.53 Watts			
	251	848.8 MHz	+32.28 dBm	1.69 Watts			
	128	824.2 MHz	+26.68 dBm	0.466 Watts			
Cellular EDGE	190	836.6 MHz	+26.89 dBm	0.489 Watts			
	251	848.8 MHz	+26.72 dBm	0.470 Watts			
	4132	826.4 MHz	+23.80 dBm	0.240 Watts			
Cellular UMTS	4182	836.4 MHz	+23.90 dBm	0.245 Watts			
	4233	846.6 MHz	+24.00 dBm	0.251 Watts			
	512	1850.2 MHz	+28.42 dBm	0.695 Watts			
PCS GPRS	661	1880.0 MHz	+28.63 dBm	0.729 Watts			
	810	1909.8 MHz	+28.54 dBm	0.714 Watts			
	512	1850.2 MHz	+25.53 dBm	0.357 Watts			
PCS EDGE	661	1880.0 MHz	+25.73 dBm	0.374 Watts			
	810	1909.8 MHz	+25.55 dBm	0.359 Watts			
	9262	1852.4 MHz	+22.33 dBm	0.171 Watts			
PCS UMTS	9400	1880.0 MHz	+23.00 dBm	0.200 Watts			
	9538	1907.5 MHz	+22.70 dBm	0.186 Watts			

#### A.9 PASS/FAIL

There is no pass/fail criterion for this measurement.

#### A.10 SIGN-OFF

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

Spencer Watton

Spencer Watson EMC Lab Manager Celltech Labs Inc.

April 25, 2006 Date

Company:			FCC ID:	KBCIX325-AC860BT	-AC860BT IC ID: 1943A-IX325g		IT	ITRONIX	
Model(s):			IX325	Rugged Tablet PC with Dual-Band GSM/GPRS/EDGE/UMTS Modem			A GENERAL DYNAMICS COMPANY		
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Î	Date(s) of Evaluation:	April 25 - July 31, 2006	Report Revision No.:	Revision 1.0	
Ì	Test Standard(s) Applied:	FCC 47 CFR §2, §22H, §24E	Industry Canada RS	S-132, RSS-133	
b	Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada Lab File #3874		

### Appendix B - Effective Radiated Power / Effective Isotropic Radiated Power Measurement

B.1 REFERENCES	
Normative Reference Standard	FCC CFR 47 §22.913 (a), FCC CFR 47 §24.232 (b)
Procedure Reference	ANSI/TIA/EIA-603-C

B.2 LIMITS	B.2 LIMITS							
B.2.1 FCC CFR 4	B.2.1 FCC CFR 47							
FCC CFR 47 §22.913 (a)	(a) Maximum ERP							
FCC CFR 47 §24.232 (b)	(b) Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.							

B.3 ENVIRONMENTAL CONDITIONS						
Temperature	25 +/- 5 °C					
Humidity	40 +/- 10 %					
Barometric Pressure	101 +/- 3 kPa					

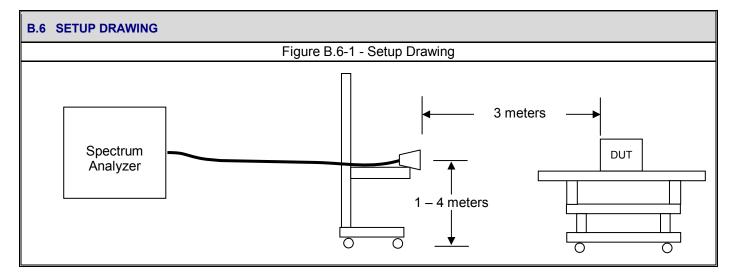
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE
00072	EMCO	2075	Mini-mast	n/a	n/a
00073	EMCO	2080	Turn Table	n/a	n/a
00071	EMCO	2090	Multi-Device Controller	n/a	n/a
00050	Chase	CBL-6111A	Bilog Antenna	04Apr06	04Apr07
00055	EMCO	3121C	Dipole Antenna	04Apr06	04Apr07
00034	ETS	3115	Double Ridged Guide Horn	11Aug05	11Aug0
00035	ETS	3115	Double Ridged Guide Horn	03Apr06	03Apr08
00161	Waveline	899	Standard Gain Horn Antenna	n/a	n/a
00051	HP	8566B	Spectrum Analyzer RF Section	04Apr06	04Apr07
00049	00049 HP 85650A		Quasi-peak Adapter	04Apr06	04Apr07
00047	HP	85685A	RF Preselector	05Apr06	05Apr07
00048	Gore	65474	Microwave Cable	16Aug05	16Aug0
00006	R & S	SMR 20	Signal Generator (10MHz-40GHz)	06Apr06	06Apr07
00114	Amplifier Research	DC7154	Directional Coupler (0.8-4.2 GHz)	n/a	n/a
00078	Pasternack	PE2214-20	Directional Coupler (1-18 GHz)	n/a	n/a
00106	Amplifier Research	5S1G4	Power Amplifier (5W, 800MHz-4.2GHz)	n/a	n/a
00041	Amplifier Research	10W1000C	Power Amplifier (0.5 – 1 GHz)	n/a	n/a
00110	Gigatronics	8652A	Power Meter	12Apr06	12Apr07
00011	Gigatronics	80701A	Power Sensor	03Feb06	03Feb0
00208	Anritsu	MT8820A	Radio Communication Test Set	06Jun06	06Jun0

Company:	ltron	ix Corpora	tion	FCC ID:	KBCIX325-AC860BT	IC ID:	1943A-IX325g		
Model(s): IX325-AC860BT		IX325	5 Rugged Tablet PC with Dual-Band GSM/GPRS/EDGE/UMTS Modem			A GENERAL DYNAMICS COMPANY			
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ch arvices Lab	Date(s) of Evaluation:	April 25 - July 31, 2006	<b>Report Revision No.:</b>	Revision 1.0	
	Test Standard(s) Applied:	FCC 47 CFR §2, §22H, §24E	Industry Canada RSS-132, RSS-		
	Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada Lab File #3874		

B.5 MEASUREMENT EQUIPMENT SETUP								
MEASUREMENT EQUIPMENT	For the field strength measurements, the measurement equipment was connected as shown in B.6. A number of antennas were used to cover the applicable frequency range tested. The ranges in which each antenna was used are as follows. For the final substitutions, the DUT was replaced with the appropriate antenna and fed from a CW signal source sufficient to replicate the received field strength of the emission being investigated.							
CONNECTIONS	Frequency F	Range	RX Antenna	TX Antenna				
	30 MHz - 1	GHz	Bilog	Dipole				
	1 GHz - 18	GHz	ETS 3115 Horn	ETS 3115 Horn				
	For the spurious out-of-band emissions, the spectrum analyzer was set to the following settings:							
MEASUREMENT	Mode	RBW	VBW	Detector				
EQUIPMENT SETTINGS		kHz	kHz					
SET TINGS	Cellular	100	300	Peak				
	PCS	1000	1000	Peak				



Company:	Itronix Corporation		FCC ID:	KBCIX325-AC860BT	IC ID:	1943A-IX325g		RONIX®	
Model(s): IX325-AC860BT		AC860BT IX32	5 Rugged Tab	Rugged Tablet PC with Dual-Band GSM/GPRS/EDGE/UMTS Modem				A GENERAL DYNAMICS COMPANY	
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Celltech	Test Standard(s) Applied:	FCC 47 CFR §2, §22H, §24E	Industry Canada RS	S-132, RSS-133
Testing and Engineering Services Lab	Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada L	ab File #3874

### **B.7 SETUP PHOTOGRAPHS**

Photograph B.7-1 - Bilog Receive Antenna with DUT Antenna - DUT "Landscape" Configuration	Photograph B.7-2 - Horn Receive Antenna with DUT Antenna - DUT "Portrait" Configuration
Photograph B.7-3 - Dipole Substitution Setup	Photograph B.7-4 - Horn Substitution Setup
<image/>	

Company:	Itronix Corporation     FCC ID:     KBCIX325-AC860BT     IC ID:     1943A-IX325g       IX325-AC860BT     IX325 Rugged Tablet PC with Dual-Band GSM/GPRS/EDGE/UMTS Modem		ration FCC ID: KBCIX325-AC860E		ITRONIX				
Model(s):	IX325-/	AC860BT	IX325	Rugged Tabl	et PC with Dual-Band GS	M/GPRS/ED	GE/UMTS Modem		AL DYNAMICS COMPANY
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Celltech	Test Standard(s) Applied:	FCC 47 CFR §2, §22H, §24E	Industry Canada RS	S-132, RSS-133
Testing and Engineering Services Lab	Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada L	ab File #3874

SETUP PHOTOGRAPHS (CONTINUED)	
Photograph B.7-5 - Bilog Receive Antenna with DUT Antenna - DUT "LCD Face-Up" Configuration	Photograph B.7-6 - DUT "LCD Face-Up" Configuration Close-up
Photograph B.7-7 - DUT "Landscape" Configuration Close-up	Photograph B.7-8 - DUT "Portrait" Configuration Close-up

#### **B.8 DUT OPERATING DESCRIPTION**

Measurements were made for the low, mid and high channels transmitting in each of the modulation types for both the cellular and PCS bands at maximum power level as described in Appendix A.

Company:	Itron	•		Itronix Corporation FCC ID: KBCIX325-AC860BT IC ID:		1943A-IX325g		<b>RONIX</b> ®	
Model(s):	IX325-/	AC860BT	IX325	Rugged Tabl	et PC with Dual-Band GS	M/GPRS/ED			AL DYNAMICS COMPANY
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h	Test Standard(s) Applied:	FCC 47 CFR §2, §22H, §24E	Industry Canada RS	S-132, RSS-133
s Lab	Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada L	ab File #3874

	Levels (A														
1.1 Cellu	lar GPRS	S Ca	rrier	Leve	els										
Cell	tech		Proje Comp Produ		ber:	740 Itronix IX325 with AC	860		Standard: Test Start Test End D		FCC22.9 27-Jun-06 27-Jun-06	6			
Configu	ration	Polarity	Distance	Carrier Channel	Frequency	Corrected Field Strength	Substituted SA Signal Level (uncorrected)	Power Applied to Antenna	Antenna Gain	ERP	Limit	Margin	Pass/ Fail		ERP Carrier
Orientation	Accessory	Ī	m	Ca	MHz	dBuV/m	dBuV	dBm	dBd	dBm	Watts	dB		dBm	milliWatts
					Portable 0	GPRS Cellu	lar Band Ra	diated Car	rier Pow	er Level	s				
Long Edge Up	None	н	3	128	824.2000	126.52	100.00	27.33	-1.45	38.45	7.00	12.57	PASS	25.88	387.58
Long Edge Up	None	v	3	128	824.2000	123.92	97.40	23.94	-1.45	38.45	7.00	15.96	PASS	22.49	177.57
Long Edge Up	None	н	3	190	836.6000	127.16	100.30	28.86	-1.35	38.45	7.00	10.94	PASS	27.51	564.00
Long Edge Up	None	v	3	190	836.6000	124.86	98.00	25.47	-1.35	38.45	7.00	14.33	PASS	24.12	258.39
Long Edge Up	None	н	3	251	848.8000	128.32	101.20	30.25	-1.25	38.45	7.00	9.45	PASS	29.00	794.40
The DUT was m	easured in 3 on	rientatio D" ("L	ons wit	th respe	ct to the receiv		99.00 Gain (dBd) the orientation wi	27.10	-1.25 Radiated Po	38.45 wer result	7.00 s is shown	12.60 here.	PASS	25.85	384.63
lote: /leasured ERP 'he DUT was m	Carrier Level (d easured in 3 or ng Edge Up	IBm) = rientatio D" ("L	Power ons wit ands r Le Proje	r Applied th respe	d to Antenna (d ct to the receiv ") Device C	IBm) + Antenna re antenna, only	I Gain (dBd)		1	wer result		here.	PASS	25.85	384.63
Note: Neasured ERP The DUT was m	Carrier Level (d easured in 3 or ng Edge Up	IBm) = rientatio D" ("L	Power ons wit ands r Le Proje	r Applied th respe scape vels ect Num pany:	d to Antenna (d ct to the receiv ") Device C	IBm) + Antenna e antenna, only Drientation	Gain (dBd) the orientation wi		Radiated Po	wer result	s is shown	here.	PASS	25.85	384.63
Note: Neasured ERP The DUT was m	Carrier Level (d easured in 3 or ng Edge Up GPRS Ca	IBm) = rientatio D" ("L	Power ons wit ands r Le Proje Com	vels	d to Antenna (d ct to the receiv ") Device C	IBm) + Antenna e antenna, only Drientation 740 Itronix	Gain (dBd) the orientation wi		Radiated Po Standard: Test Start	wer result	s is shown FCC24.23 27-Jun-06	here.	PASS Pass/F ail	Measured	EIRP Carrie
Jote: Measured ERP The DUT was m Note: "Lor 1.2 PCS	Carrier Level (d easured in 3 or ng Edge Up GPRS Ca	Bm) = ieintation 2" ("L arrie	Power ons wit ands r Le <sup>o</sup> Proje Com	r Applied th respe SCape Vels ect Num pany: uct:	d to Antenna (d ct to the receiv ") Device C	IBm) + Antenna e antenna, only Drientation 740 Itronix IX325 with AC Corrected	860 Substituted SA Signal Level	th the highest	Radiated Pc Standard: Test Start Test End D Antenna	wer result	s is shown FCC24.23 27-Jun-06 27-Jun-06	here.	Pass/F	Measured	EIRP Carrie
lote: Measured ERP in the DUT was mini- Note: "Loor 1.2 PCS	Carrier Level (d easured in 3 of og Edge Up GPRS Ca GPRS Ca Construction	Bm) = ieintation 2" ("L arrie	Power ons wit ands r Le Proje Com Prod	vels	d to Antenna (d ct to the receiv ") Device C ber: Frequency MHz	IBm) + Antenna e antenna, only Drientation 740 Itronix IX325 with AC Corrected Field Strength dBuV/m	860 Substituted SA Signal Level (uncorrected)	Power Applied to Antenna dBm	Radiated Po Standard: Test Start Test End D Antenna Gain dBi	wer result Date: late: EIRP dBm	s is shown FCC24.23 27-Jun-06 27-Jun-06 Limit	here.	Pass/F	Measured La	EIRP Carrie
lote: Measured ERP in the DUT was mini- Note: "Loor 1.2 PCS	Carrier Level (d easured in 3 of og Edge Up GPRS Ca GPRS Ca Construction	Bm) = ieintation 2" ("L arrie	Power ons wit ands r Le Proje Com Prod	vels	d to Antenna (d ct to the receiv ") Device C ber: Frequency MHz	IBm) + Antenna e antenna, only Drientation 740 Itronix IX325 with AC Corrected Field Strength dBuV/m	860 Substituted SA Signal Level (uncorrected)	Power Applied to Antenna dBm	Radiated Po Standard: Test Start Test End D Antenna Gain dBi	wer result Date: late: EIRP dBm	s is shown FCC24.23 27-Jun-06 27-Jun-06 Limit	here.	Pass/F	Measured La	EIRP Carrie
Aote: Aeasured ERP - The DUT was m Note: "Loor 1.2 PCS Configu Orientation	Carrier Level (d easured in 3 of g Edge Up GPRS Ca Construction	Bm) = rientatio o" ("L arrie	Powei ands r Le Proje Com Prod	r Applied th respe scape vels set Num pany: uct:	d to Antenna (d ct to the receiv ") Device C ber: Frequency MHz Portable	IBm) + Antenna e antenna, only Drientation 740 Itronix IX325 with AC Corrected Field Strength dBuV/m e GPRS PC	860 Substituted SA Signal Level (uncorrected) BBuV S Band Radi	Power Applied to Antenna dBm ated Carri	Radiated Po Standard: Test Start Test End I Antenna Gain dBi er Power	wer result Date: Date: EIRP dBm Levels	s is shown FCC24.23 27-Jun-06 Limit Watts	here. 32b 33b 33b 33c 33c 35c 35c 35c 35c 35c 35c 35c 35c	Pass/F ail	Measured I La dBm	EIRP Carrie evel milliWatte
Jote: Measured ERP The DUT was m Note: "Lor 1.2 PCS Configu Orientation	Carrier Level (d easured in 3 or g Edge Up GPRS Ca Cecching uration	Bm) = rientatio " ("L arrie April P	Power ands r Le Proje Com Prod	r Applieder scape vels ect Num pany: uuct: Uuct: 512	d to Antenna (d ct to the receiv ") Device C ") Device C ") ber: Frequency MHz Portable 1850.2000	IBm) + Antenna e antenna, only Drientation 740 Itronix IX325 with AC Corrected Field Strength dBuV/m e GPRS PC 126.01	860 Substituted SA Signal Level (uncorrected) dBuV S Band Radi 93.20	Power Applied to Antenna dBm ated Carrie 20.61	Radiated Po Standard: Test Start Test End D Antenna Gain dBi er Power 8.72	wer result Date: Pate: EIRP dBm Levels 33.01	s is shown FCC24.23 27-Jun-06 27-Jun-06 Limit Watts 2.00	here.	Pass/F ail	Measured I Ld dBm	EIRP Carrie evel milliWatts 857.09
Jote: Aeasured ERP 4 The DUT was m Note: "Lor 1.2 PCS Configu Configu Orientation Long Edge Up Long Edge Up	Carrier Level (d easured in 3 or og Edge Up GPRS Co Construction	Bm) = rientation o" ("L arrie	Power ands r Le Proje Com Prod	vels scape vels sct Num pany: uct: 512 512	d to Antenna (d ct to the receiv ") Device C ") Device C ") ber: Frequency MHz Portable 1850.2000	IBm) + Antenna e antenna, only Drientation 740 Itronix IX325 with AC Corrected Field Strength dBuV/m e GPRS PC: 126.01 117.31	860 Substituted SA Signal Level (uncorrected) dBuV S Band Radii 93.20 84.50	Power Applied to Antenna dBm ated Carrie 20.61 10.58	Radiated Pc Standard: Test Start Test End I Antenna Gain dBi er Power 8.72 8.72	Date: Date: EIRP dBm Levels 33.01 33.01	s is shown FCC24.23 27-Jun-06 27-Jun-06 Limit Watts 2.00 2.00	here. 32b 33b 33c 33c 33c 33c 33c 33c 33c 33c 33	Pass/F ail PASS PASS	Measured I La dBm 29.33 19.30	EIRP Carrie evel milliWatts 857.09 85.12
Iote: Measured ERP i The DUT was minimized Note: "Loor 1.2 PCS Configu Orientation Long Edge Up Long Edge Up	Carrier Level (d easured in 3 or g Edge Up GPRS Ca Contention Accessory None None None	Bm) = rientation o" ("L arrie H H V H	Power ands r Le <sup>o</sup> Proje Com Prod	vels vels scape vels sct Num pany: uct: 512 512 512 661	d to Antenna (d ct to the receiv ") Device C ber: Frequency MHz Portable 1850.2000 1850.2000	IBm) + Antenna e antenna, only Drientation 740 Itronix IX325 with AC Corrected Field Strength dBuV/m e GPRS PC 126.01 117.31 125.87	860 Substituted SA Signal Level (uncorrected) dBuV S Band Radi 93.20 84.50 92.90	Power Applied to Antenna dBm ated Carri 20.61 10.58 21.48	Radiated Po Standard: Test Start Test End I Antenna Gain dBi er Power 8.72 8.72 8.72	Date: bate: EIRP dBm Levels 33.01 33.01 33.01	s is shown FCC24.23 27-Jun-06 27-Jun-06 Limit Watts 2.00 2.00 2.00	here. 32b 33 32b 33 33 32b 32b	Pass/F ail PASS PASS PASS	Measured I La dBm 29.33 19.30 30.24	EIRP Carrie evel milliW atts 857.09 85.12 1055.84

Note: "Long Edge Up" ("Landscape") Device Orientation

Company:	Itron	ix Corporati	ion	FCC ID:	KBCIX325-AC860BT	IC ID:	1943A-IX325g		<b>ITRONIX</b> <sup>®</sup>	
Model(s):	IX325-/	AC860BT	IX325	Rugged Tabl	et PC with Dual-Band GS	M/GPRS/ED	GE/UMTS Modem		AL DYNAMICS COMPANY	
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	Date(s) of Evaluation:	April 25 - July 31, 2006	<b>Report Revision No.:</b>	Revision 1.0
h	Test Standard(s) Applied:	FCC 47 CFR §2, §22H, §24E	Industry Canada RS	S-132, RSS-133
ces Lab	Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada L	ab File #3874

#### B.9.2 Carrier Levels (Attached Hinged Monopole Antenna)

#### B.9.2.1 Cellular EDGE Carrier Levels

Celli	ech		Proje Com Prod		ber:	740 Itronix IX325 with AC	860		Standard: Test Start Test End I		FCC22.9 27-Jun-06 27-Jun-06	6			
Configu	ration	Polarity	Distance	arrier Channel	Frequency	Corrected Field Strength	Substituted SA Signal Level (uncorrected)	Power Applied to Antenna	Antenna Gain			Margin	Pass/ Fail		ERP Carrier evel
Orientation	Accessory		m	Са	MHz dBuV/m dBuV dBm dBd dBm	Watts	dB		dBm	milliWatts					
					Portable I	EDGE Cellu	lar Band Ra	diated Ca	rier Pow	er Leve	s				
Face Up	None	н	3	128	824.2000	125.22	98.70	26.03	-1.45	38.45	7.00	13.87	PASS	24.58	287.32
Face Up	None	V	3	128	824.2000	121.42	94.90	21.44	-1.45	38.45	7.00	18.46	PASS	19.99	99.85
Face Up	None	н	3	190	836.6000	125.46	98.60	27.16	-1.35	38.45	7.00	12.64	PASS	25.81	381.31
Face Up	None	V	3	190	836.6000	122.66	95.80	23.27	-1.35	38.45	7.00	16.53	PASS	21.92	155.70
Face Up	None	н	3	251	848.8000	126.52	99.40	28.46	-1.25	38.45	7.00	11.24	PASS	27.21	526.07
Face Up	None	V	3	251	848.8000	123.12	96.00	24.10	-1.25	38.45	7.00	15.60	PASS	22.85	192.77

Note:

Measured ERP Carrier Level (dBm) = Power Applied to Antenna (dBm) + Antenna Gain (dBd)

The DUT was measured in 3 orientations with respect to the receive antenna, only the orientation with the highest Radiated Power results is shown here.

#### Note: "Face Up" ("LCD Display-Up") Device Orientation

#### B.9.2.2 PCS EDGE Carrier Levels

CC24.232b 7-Jun-06 7-Jun-06			
Measured EIRP Carrier Level			
milliWatts			
897.48			
40.74			
1080.44			
73.05			
1089.37			
86.33			
1			

Note: "Short Edge Up" ("Portrait") Device Orientation

Company:	Itronix Corporation		FCC ID:	KBCIX325-AC860BT	IC ID:	1943A-IX325g	IT	RONIX®
Model(s): IX325-AC860BT IX32			25 Rugged Tab	let PC with Dual-Band GS	M/GPRS/ED	GE/UMTS Modem		AL DYNAMICS COMPANY
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006
0
3

#### B.9.3 Carrier Levels (Attached Hinged Monopole Antenna) B.9.3.1 Cellular UMTS Carrier Levels Project Number: 740 Standard: FCC22.913 Celltech 27-Jun-06 Itronix Test Start Date: Company: Product: IX325 with AC860 Test End Date: 27-Jun-06 Substituted SA Power Distance Chann Measured ERP Carrier Corrected Antenna ERP Limit Configuration Polarity Margin Frequency Signal Level Applied to ield Strength Pass Level Gain (uncorrected) Antenna Fail Carrier Orientation Accessory m MHz dBuV/m dBuV dBm dBd dBm Watts dB dBm milliWatts Portable WCDMA Cellular Band Radiated Carrier Power Levels Face Up н 3 4132 826.4000 118.36 91.80 19.16 -1.43 38.45 7.00 20.72 PASS 17.73 59.31 None Face Up None V 3 4132 826 4000 117.66 91.10 17 59 -1.43 38.45 7.00 22 29 PASS 16.16 41.32 3 4182 836.4000 121.26 94.40 22.96 -1.35 38.45 7.00 PASS 21.61 144.92 Face Up None н 16.84 v 4182 PASS Face Up None 3 836.4000 120.76 93.90 21.37 -1.35 38.45 7.00 18.43 20.02 100.49 Face Up Н 3 4233 846.6000 121.49 94.40 23.45 -1.27 38.45 7.00 16.27 PASS 22.18 165.30 None v 4233 PASS Face Up None 3 846.6000 121.09 94.00 22.10 -1.27 38.45 7.00 17.62 20.83 121.14 Note Measured ERP Carrier Level (dBm) = Power Applied to Antenna (dBm) + Antenna Gain (dBd) The DUT was measured in 3 orientations with respect to the receive antenna, only the orientation with the highest Radiated Power results is shown here Note: "Face Up" ("LCD Display-Up") Device Orientation B.9.3.2 PCS UMTS Carrier Levels FCC24.232b Project Number: 740 Standard: Celltech 27-Jun-06 Company: Itronix Test Start Date: IX325 with AC860 27-Jun-06 Product: Test End Date: Channel Substituted SA Power Measured EIRP Carrie Corrected Antenna EIRP Limit Configuration Polarity Frequency Signal Level Applied to Margin Distar Level -ield Strength Gain Pass/F (uncorrected) Antenna ail e Carr Orientation Accessory m MHz dBuV/m dBuV dBm dBi dBm Watts dB dBm milliW atts Portable WCDMA PCS Band Radiated Carrier Power Levels 3 9262 1852.4000 33.01 PASS 128.61 Long Edge Up н 117.92 85.10 12.37 2.00 10.32 21.09 None 8.72 PASS Long Edge Up None V 3 9262 1852.4000 120.82 88.00 14.35 8.72 33.01 2.00 7.42 23.07 202.90 Long Edge Up None н 3 9400 1880.0000 115.87 82.90 11.45 8.76 33.01 2.00 12.37 PASS 20.21 104.86 v 3 1880.0000 119.57 86.60 33.01 8.67 PASS Long Edge Up None 9400 13.66 8.76 2.00 22.42 174.42 Long Edge Up None н 3 9538 1907.5000 116.02 82 90 11.97 8 79 33.01 2 00 12 22 PASS 20.76 119.10 V 3 9538 1907.5000 119.52 86.40 14.10 8.79 33.01 2.00 8.72 PASS 22.89 194.49 Long Edge Up None Note Measured ERP Carrier Level (dBm) = Power Applied to Antenna (dBm) + Antenna Gain (dBd) The DUT was measured in 3 orientations with respect to the receive antenna, only the orientation with the highest Radiated Power results is shown here

Note: "Long Edge Up" ("Landscape") Device Orientation

Company:	Itronix Corporation		FCC ID:	KBCIX325-AC860BT	IC ID:	1943A-IX325g	IT	RONIX®
Model(s): IX325-AC860BT		IX325	Rugged Tabl	et PC with Dual-Band GS	M/GPRS/ED			AL DYNAMICS COMPANY
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#### B.10 PASS/FAIL

In reference to the results outlined in B.9, the DUT passes the requirements as stated in the reference standards.

#### **B.11 SIGN-OFF**

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

Spencer Watton

Spencer Watson EMC Lab Manager Celltech Labs Inc.

> June 27, 2006 Date

Company:	Itron	Itronix Corporation		FCC ID:	KBCIX325-AC860BT	IC ID:	1943A-IX325g	IT	RONIX®
Model(s): IX325-AC860BT			IX325	Rugged Tabl	let PC with Dual-Band GS	M/GPRS/ED			AL DYNAMICS COMPANY
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	Date(s) of Evaluation:	April 25 - July 31, 2006	<b>Report Revision No.:</b>	Revision 1.0
1	Test Standard(s) Applied:	FCC 47 CFR §2, §22H, §24E	Industry Canada RS	S-132, RSS-133
Lab	Test Lab Registration(s):	FCC Lab Registration #714830	0 Industry Canada Lab File #387	

### Appendix C - Radiated Spurious Emissions Measurement

C.1 REFERENCES	
Normative Reference Standard	FCC CFR 47 §22.917(a), FCC CFR 47 §24.238(a)
Procedure Reference	ANSI/TIA/EIA-603-C

C.2 LIMITS	
C.2.1 FCC CFR 47	
FCC CFR 47 §22.917 & §24.238	(a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

C.3 ENVIRONMENTAL CONDITIONS					
Temperature	25 +/- 5 °C				
Humidity	40 +/- 10 %				
Barometric Pressure	101 +/- 3 kPa				

### C.4 EQUIPMENT LIST

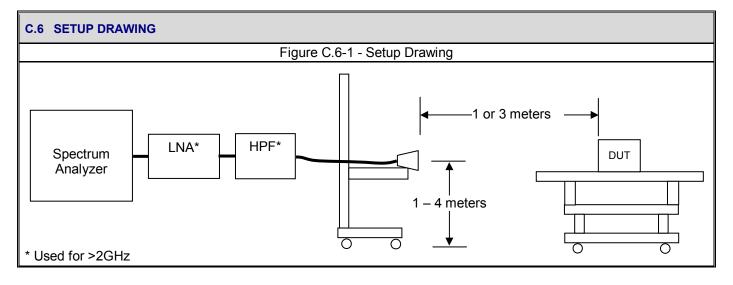
2.4 EQUIPINIENT				1	1
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE
00072	EMCO	2075	Mini-mast	n/a	n/a
00073	EMCO	2080	Turn Table	n/a	n/a
00071	EMCO	2090	Multi-Device Controller	n/a	n/a
00050	Chase	CBL-6111A	Bilog Antenna	04Apr06	04Apr07
00055	EMCO	3121C	Dipole Antenna	04Apr06	04Apr07
00034	ETS	3115	Double Ridged Guide Horn	11Aug05	11Aug07
00035	ETS	3115	Double Ridged Guide Horn	03Apr06	03Apr08
00161	Waveline	899	Standard Gain Horn Antenna	n/a	n/a
00051	HP	8566B	Spectrum Analyzer RF Section	04Apr06	04Apr07
00049	HP	85650A	Quasi-peak Adapter	04Apr06	04Apr07
00047	HP	85685A	RF Preselector	05Apr06	05Apr07
00048	Gore	65474	Microwave Cable	16Aug05	16Aug06
00115	Miteq	J54-00102600-35-5A	LNA	18Apr06	18Apr07
00006	R & S	SMR 20	Signal Generator (10MHz-40GHz)	06Apr06	06Apr07
00114	Amplifier Research	DC7154	Directional Coupler (0.8-4.2 GHz)	n/a	n/a
00078	Pasternack	PE2214-20	Directional Coupler (1-18 GHz)	n/a	n/a
00106	Amplifier Research	5S1G4	Power Amplifier (5W, 800MHz-4.2GHz)	n/a	n/a
00041	Amplifier Research	10W1000C	Power Amplifier (0.5 – 1 GHz)	n/a	n/a
00110	Gigatronics	8652A	Power Meter	12Apr06	12Apr07
00011	Gigatronics	80701A	Power Sensor	03Feb06	03Feb0
00208	Anritsu	MT8820A	Radio Communication Analyzer	06Jun06	06Jun07

Company:	Itron	nix Corporation		FCC ID:	KBCIX325-AC860BT	IC ID:	1943A-IX325g	ITI	RONIX
Model(s): IX325-AC860BT IX325 Rugged Tablet F			et PC with Dual-Band GS	M/GPRS/ED			AL DYNAMICS COMPANY		
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	Date(s) of Evaluation:	April 25 - July 31, 2006	<b>Report Revision No.:</b>	Revision 1.0
	Test Standard(s) Applied:	FCC 47 CFR §2, §22H, §24E	Industry Canada RSS-132, RSS-133	
Services Lab	Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada Lab File #3874	

C.5 MEASUREMENT EQUIPMENT SETUP							
MEASUREMENT	For the field strength measurements, the measurement equipment was connected as shown in C.6. A number of antennas were used to cover the applicable frequency range tested. The ranges in which each antenna was used are shown below. For the final substitutions, the DUT was replaced with the appropriate antenna and fed from a CW signal source sufficient to replicate the received field strength of the emission being investigated.						
EQUIPMENT CONNECTIONS	Frequency F	Range	RX Antenna	TX Antenna			
CONTECTIONS	30 MHz - 1	GHz	Bilog	Dipole			
	1 GHz - 18	GHz	ETS 3115 Horn	ETS 3115 Horn			
	18 GHz - 20	GHz	Waveline 899 Horn	Waveline 899 Horn			
	For the spurious out-of-band emissions, the spectrum analyzer was set to the following settings:						
	Mode	RBW	VBW	Detector			
MEASUREMENT		kHz	kHz				
EQUIPMENT	Cellular < 1 GHz	100	300	Peak*			
SETTINGS	Cellular > 1 GHz	1000	1000	Peak*			
	PCS	1000	1000	Peak*			
	*Where the peak emission exceeded the average limit, an average measurement was made using video averaging						



#### C.7 DUT OPERATING DESCRIPTION

Measurements were made for the low, mid and high channels transmitting in each of the modulation types for both the cellular and PCS bands at maximum power level as described in Appendix A.

Company:	ltror	ix Corpora	ation	FCC ID:	KBCIX325-AC860BT	IC ID:	1943A-IX325g	IT	RONIX <sup>®</sup>
Model(s):	IX325-AC860BT IX32			5 Rugged Tablet PC with Dual-Band GSM/GPRS/EDGE/UMTS Modem					AL DYNAMICS COMPANY
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#### C.8 TEST RESULTS

The spurious measurements detailed in this section are referenced to the carrier levels set forth in Appendix B of this report:

#### C.8.1 Spurious Emissions (Attached Hinged Monopole Antenna)

#### C.8.1.1 Cellular EDGE Spurious Emissions

				Project Number: 740   Company: Itronix   Product: IX325 with AC860				Test Start Date: Test End Date:				
Polarity	Distance	Substitution Antenna Type	Carrier Channel	Frequency	Corrected Field Strength	Maximized SA Signal Level (uncorrected)	Power Applied to Antenna	Antenna Gain	ERP Emission Level	Limit	Margin	Pass/Fa
	m			MHz	dBuV/m	dBuV	dBm	dBi	dBm	dBm or dBuV/m*	dB	
Н	3	none	128	1648.26	56.01	24.40	n/a	n/a	n/a	84.4*	28.4*	PASS*
Н	3	none	128	2466.47	49.06	37.00	n/a	n/a	n/a	84.4*	35.3*	PASS*
Н	3	none	128	3292.24	37.86	31.00	n/a	n/a	n/a	84.4*	46.5*	PASS*
Н	3	none	190	1673.87	59.25	27.50	n/a	n/a	n/a	84.4*	25.1*	PASS*
Н	3	none	190	2509.80	44.70	32.50	n/a	n/a	n/a	84.4*	39.7*	PASS*
Н	3	none	190	3346.40	38.26	31.20	n/a	n/a	n/a	84.4*	46.1*	PASS*
Н	3	none	251	1697.43	65.12	33.20	n/a	n/a	n/a	84.4*	19.2*	PASS*
Н	3	none	251	1697.43	41.41	9.49	n/a	n/a	n/a	84.4*	43.0*	PASS*
Н	3	none	251	2546.40	45.71	33.30	n/a	n/a	n/a	84.4*	38.7*	PASS*
Н	3	none	251	3395.20	38.52	31.30	n/a	n/a	n/a	84.4*	45.8*	PASS*
٧	3	none	128	1648.51	55.51	23.90	n/a	n/a	n/a	84.4*	28.9*	PASS*
V	3	none	128	2470.13	61.87	49.80	n/a	n/a	n/a	84.4*	22.5*	PASS*
V	3	none	128	2470.13	32.37	20.30	n/a	n/a	n/a	84.4*	52.0*	PASS*
V	3	none	128	3296.80	44.60	37.70	n/a	n/a	n/a	84.4*	39.8*	PASS*
V	3	none	190	1673.93	58.85	27.10	n/a	n/a	n/a	84.4*	25.5*	PASS*
V	3	none	190	2509.80	44.70	32.50	n/a	n/a	n/a	84.4*	39.7*	PASS*
V	3	none	190	3346.40	46.66	39.60	n/a	n/a	n/a	84.4*	37.7*	PASS*
V	3	none	251	1697.60	62.92	31.00	n/a	n/a	n/a	84.4*	21.4*	PASS*
V	3	none	251	1697.60	40.82	8.90	n/a	n/a	n/a	84.4*	43.5*	PASS*
V	3	none	251	2546.23	46.71	34.30	n/a	n/a	n/a	84.4*	37.7*	PASS*
V	3	none	251	3395.20	38.62	31.40	n/a	n/a	n/a	84.4*	45.7*	PASS*

\*The emissions reported above represent the highest emissions or noise floor measured within the frequency band of 30MHz and the 10<sup>111</sup> harmonic of the carrier with field strengths within 20 dB of the theoretical limit. All other emissions attributed to the EUT had field strengths greater than 20 dB below the theoretical limit and substitutions were not made.

Company:	Itron	onix Corporation		FCC ID:	KBCIX325-AC860BT	(BCIX325-AC860BT IC ID: 19			RONIX®
Model(s):	IX325-AC860BT IX32		IX325	Rugged Tabl	et PC with Dual-Band GS	M/GPRS/ED	GE/UMTS Modem		AL DYNAMICS COMPANY
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	Date(s) of Evaluation:	April 25 - July 31, 2006	<b>Report Revision No.:</b>	Revision 1.0		
h	Test Standard(s) Applied:	FCC 47 CFR §2, §22H, §24E	Industry Canada RSS-132, RSS-133			
ices Lab	Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada Lab File #3874			

(	<b>Celltech</b>		Project Number: Company: Product:		Itronix			Standard: Test Start Da Test End Da		FCC24.238 27-Jul-06 31-Jul-06		
Polarity	Distance	Substitution Antenna Type	Carrier Channel	Frequency	Corrected Field Strength	Maximized SA Signal Level (uncorrected)	Power Applied to Antenna	Antenna Gain	EIRP Emission Level	Limit	Margin	Pass/Fai
	m			MHz	dBuV/m	dBuV	dBm	dBi	dBm	dBm or dBuV/m*	dB	1
Н	3	none	512	3700.33	42.51	34.00	n/a	n/a	n/a	82.2*	39.7*	PASS*
Н	3	none	512	5550.60	45.09	31.00	n/a	n/a	n/a	82.2*	37.1*	PASS*
Н	1	none	512	7400.80	49.80	39.28	n/a	n/a	n/a	91.8*	42.0*	PASS*
Н	3	none	661	3760.33	39.69	31.10	n/a	n/a	n/a	82.2*	42.5*	PASS*
Н	3	none	661	5640.00	42.75	28.60	n/a	n/a	n/a	82.2*	39.5*	PASS*
Н	1	none	661	7520.00	50.10	39.20	n/a	n/a	n/a	91.8*	41.7*	PASS*
Н	3	none	810	3819.66	40.63	31.70	n/a	n/a	n/a	82.2*	41.6*	PASS*
Н	3	none	810	5729.46	47.01	33.00	n/a	n/a	n/a	82.2*	35.2*	PASS*
Н	1	none	810	7639.20	50.90	39.89	n/a	n/a	n/a	91.8*	40.9*	PASS*
V	3 3	none	512 512	3700.40 5550.60	48.31 44.89	39.80 30.80	n/a n/a	n/a n/a	n/a n/a	82.2* 82.2*	33.9* 37.3*	PASS* PASS*
V	3 1	none	512	7400.40	44.69 51.65	41.13	n/a n/a	n/a n/a	n/a n/a	02.2 91.8*	40.1*	PASS*
v	3	none	661	3760.00	40.19	31.60	n/a	n/a	n/a	82.2*	42.0*	PASS*
v	3	none	661	5640.00	43.25	29.10	n/a	n/a	n/a	82.2*	39.0*	PASS*
v	1	none	661	7520.50	52.65	41.75	n/a	n/a	n/a	91.8*	39.1*	PASS*
v	3	none	810	3819.22	39.52	30.60	n/a	n/a	n/a	82.2*	42.7*	PASS*
V	3	none	810	5729.40	49.51	35.50	n/a	n/a	n/a	82.2*	32.7*	PASS*
V	1	none	810	7639.20	49.84	38.83	n/a	n/a	n/a	91.8*	41.9*	PASS*

Company:	Itron	ix Corporation	FCC ID:	KBCIX325-AC860BT	IC ID:	1943A-IX325g		RONIX®
Model(s):	IX325-/	AC860BT IX32	5 Rugged Tab	let PC with Dual-Band GS	M/GPRS/ED	GE/UMTS Modem		AL DYNAMICS COMPANY
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	Date(s) of Evaluation:	April 25 - July 31, 2006	<b>Report Revision No.:</b>	Revision 1.0
h	Test Standard(s) Applied:	FCC 47 CFR §2, §22H, §24E	Industry Canada RS	S-132, RSS-133
rices Lab	Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada L	ab File #3874

	Celltech comp		Project No Company Product:		740 Itronix IX325 with AC860	)		Standard: Test Start Da Test End Da		FCC22.917 27-Jul-06 31-Jul-06		
Polarity	Distance	Substitution Antenna Type	Carrier Channel	Frequency	Corrected Field Strength	Maximized SA Signal Level (uncorrected)	Power Applied to Antenna	Antenna Gain	ERP Emission Level	Limit	Margin	Pass/Fai
	m			MHz	dBuV/m	dBuV	dBm	dBi	dBm	dBm or dBuV/m*	dB	1
Н	3	none	4132	1652.80	48.13	16.50	n/a	n/a	n/a	84.4*	36.2*	PASS*
Н	3	none	4132	2479.20	43.09	31.00	n/a	n/a	n/a	84.4*	41.3*	PASS*
Н	3	none	4132	3305.60	38.71	31.80	n/a	n/a	n/a	84.4*	45.7*	PASS*
Н	3	none	4182	1675.21	53.76	22.00	n/a	n/a	n/a	84.4*	30.6*	PASS*
Н	3	none	4182	2509.20	44.70	32.50	n/a	n/a	n/a	84.4*	39.7*	PASS*
Н	3	none	4182	3345.60	38.06	31.00	n/a	n/a	n/a	84.4*	46.3*	PASS*
Н	3	none	4233	1690.88	52.57	20.70	n/a	n/a	n/a	84.4*	31.8*	PASS*
Н	3	none	4233	2539.80	44.98	32.60	n/a	n/a	n/a	84.4*	39.4*	PASS*
Н	3	none	4233	3386.40	38.62	31.40	n/a	n/a	n/a	84.4*	45.8*	PASS*
V	3	none	4132	1652.80	48.03	16.40	n/a	n/a	n/a	84.4*	36.3*	PASS*
V	3	none	4132	2479.20	44.49	32.40	n/a	n/a	n/a	84.4*	39.9*	PASS*
V	3	none	4132	3305.60	38.61	31.70	n/a	n/a	n/a	84.4*	45.8*	PASS*
V	3	none	4182	1675.28	52.26	20.50	n/a	n/a	n/a	84.4*	32.1*	PASS*
V	3	none	4182 4182	2509.20 3345.60	44.00 38.26	31.80 31.20	n/a n/a	n/a	n/a n/a	84.4* 84.4*	40.4* 46.1*	PASS* PASS*
V	3	none	4182	3345.60 1691.00	38.26 50.97	31.20 19.10	n/a n/a	n/a	n/a n/a	84.4* 84.4*	46.1" 33.4*	PASS* PASS*
V	3	none	4233	2539.80	45.18	32.80	n/a n/a	n/a n/a	n/a n/a	84.4* 84.4*	33.4" 39.2*	PASS* PASS*
V	3 3	none	4233	3386.40	45.18 39.12	32.80	n/a	n/a n/a	n/a	04.4 84.4*	45.3*	PASS*
v	5	IIUIIC	4200	3300.40	JU.12	31.00	11/a	11/a	1¥a	04.4	40.0	FA00

Company:	Itron	ix Corporation	FCC ID:	KBCIX325-AC860BT	IC ID:	1943A-IX325g		RONIX®
Model(s):	IX325-/	AC860BT IX32	Rugged Tab	let PC with Dual-Band GS	M/GPRS/ED			AL DYNAMICS COMPANY
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	Date(s) of Evaluation:	April 25 - July 31, 2006	<b>Report Revision No.:</b>	Revision 1.0
ch i	Test Standard(s) Applied:	FCC 47 CFR §2, §22H, §24E	Industry Canada RS	S-132, RSS-133
ervices Lab	Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada L	ab File #3874

	(	Celltech Tentry and Engineering Services Late	Project Number: 740   Company: Itronix   Product: IX325 with AC860					Standard: Test Start D Test End Da		FCC24.238 27-Jul-06 31-Jul-06		
Polarity	Distance	Substitution Antenna Type	Carrier Channel	Frequency	Corrected Field Strength	Maximized SA Signal Level (uncorrected)	Power Applied to Antenna	Antenna Gain	EIRP Emission Level	Limit	Margin	Pass/Fai
	m			MHz	dBuV/m	dBuV	dBm	dBi	dBm	dBm or dBuV/m*	dB	
Н	3	none	9262	3704.80	39.19	30.70	n/a	n/a	n/a	82.2*	43.0*	PASS*
Н	3	none	9262	5557.20	44.94	30.70	n/a	n/a	n/a	82.2*	37.3*	PASS*
Н	1	none	9262	7409.60	50.66	40.11	n/a	n/a	n/a	91.8*	41.1*	PASS*
Н	3	none	9400	3760.00	39.99	31.40	n/a	n/a	n/a	82.2*	42.2*	PASS*
Н	3	none	9400	5640.00	45.35	31.20	n/a	n/a	n/a	82.2*	36.9*	PASS*
Н	1	none	9400	7520.00	51.42	40.52	n/a	n/a	n/a	91.8*	40.4*	PASS*
Н	3	none	9538	3816.85	41.70	32.80	n/a	n/a	n/a	82.2*	40.5*	PASS*
Н	3	none	9538	5727.25	49.20	35.20	n/a	n/a	n/a	82.2*	33.0*	PASS*
Н	1	none	9538	7630.00	51.16	40.16	n/a	n/a	n/a	91.8*	40.6*	PASS*
V	3	none	9262	3704.80	37.69	29.20	n/a	n/a	n/a	82.2*	44.5*	PASS*
۷	3	none	9262	5557.20	44.74	30.50	n/a	n/a	n/a	82.2*	37.5*	PASS*
V	1	none	9262	7409.60	50.44	39.89	n/a	n/a	n/a	91.8*	41.3*	PASS*
V	3	none	9400	3760.00	39.69	31.10	n/a	n/a	n/a	82.2*	42.5*	PASS*
V	3	none	9400	5640.00	45.85	31.70	n/a	n/a	n/a	82.2*	36.4*	PASS*
۷	1	none	9400	7520.00	51.09	40.19	n/a	n/a	n/a	91.8*	40.7*	PASS*
V	3	none	9538	3815.00	41.49	32.60	n/a	n/a	n/a	82.2*	40.7*	PASS*
۷	3	none	9538	5727.31	45.90	31.90	n/a	n/a	n/a	82.2*	36.3*	PASS*
V	1	none	9538	7630.00	51.13	40.13	n/a	n/a	n/a	91.8*	40.6*	PASS*

harmonic of the carrier with field strengths within 20 dB of the theoretical limit. All other emissions attributed to the EUT had field strengths greater than 20 dB below the theoretical limit and substitutions were not made.

Company:	Itronix Corporation		on	FCC ID:	KBCIX325-AC860BT	IC ID:	1943A-IX325g		RONIX®
Model(s):	IX325-	AC860BT	IX325	Rugged Tabl	et PC with Dual-Band GS	M/GPRS/ED			AL DYNAMICS COMPANY
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#### C.9 PASS/FAIL

In reference to the results outlined in C.8, the DUT passes the requirements as stated in the reference standards as follows:

FCC 22.917 (a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43 + 10 \log(P) dB$ .

FCC 24.238 (a): Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

#### C.10 SIGN-OFF

I attest to the accuracy of the data. All measurements reported herein were performed by me and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements.

Spencer Watton

Spencer Watson EMC Lab Manager Celltech Labs Inc.

> July 31, 2006 Date

Company:	Itron	ix Corporation	FCC ID:	KBCIX325-AC860BT	IC ID:	1943A-IX325g	ITRONIX	
Model(s):	s): IX325-AC860BT IX		325 Rugged Tablet PC with Dual-Band GSM/GPRS/EDGE/UMTS Modem			A GENERAL DYNAMICS COMPANY		
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1	Date(s) of Evaluation:	April 25 - July 31, 2006	<b>Report Revision No.:</b>	Revision 1.0	
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es Lab	Test Lab Registration(s):	FCC Lab Registration #714830	Industry Canada Lab File #3874		

END OF DOCUMENT

Company:	Itronix Corporation		FCC ID:	KBCIX325-AC860BT	IC ID:	1943A-IX325g	ITRONIX	
Model(s):	IX325-AC860BT IX		(325 Rugged Tablet PC with Dual-Band GSM/GPRS/EDGE/UMTS Modem			A GENERAL DYNAMICS COMPANY		
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