

Test Report Serial No.:	022305KBC-T618	Issue 1.0	
Test Date(s):		01Oct04	1 - 14Oct04
Test Type(s):	FCC §15.247	IC RSS-2	210 Issue 5
Lab Registration(s):	FCC #714830	IC Lab	File #3874

SUPPLEMENTARY EMC TEST REPORT

FOR THE

ITRONIX RUGGED LAPTOP PC MODEL: IX260PROA580BT

WITH THE

INTERNAL CIRRONET BT2022 BLUETOOTH TRANSMITTER

UTILIZING THE

INTERNAL RANGESTAR SURFACE-MOUNT ANTENNA (INSTALLED IN THE UPPER LEFT SIDE REAR OF LCD DISPLAY)

CO-TRANSMITTING WITH THE

INTERNAL INTEL PRO 2200BG 2.4 DSSS WLAN MINI-PCI CARD

UTILIZING THE

INTERNAL RANGESTAR SURFACE-MOUNT ANTENNA (INSTALLED IN THE UPPER RIGHT SIDE REAR OF LCD DISPLAY)

TRSN 022305KBC-T618-E15W/B Issue 1.0

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

May 09, 2005



Test Report Serial No.:	022305KBC-T618	Issue 1.0	
Test Date(s):	01Oct04 - 14Oct04		
Test Type(s):	FCC §15.247	IC RSS-2	210 Issue 5
Lab Registration(s):	FCC #714830	IC Lab	File #3874

	DECLARATION OF COMPLIANCE								
To 19 K C C Phone: 29 Fax: 29 e-mail: in	esting a 955 Moselowna, anada \ 50-448- 50-448- fo@cel	TECH LABS INC. g and Engineering Services Moss Court na, B.C. da V1Y 9L3 48-7047 48-7048 celltechlabs.com celltechlabs.com		Applicant Information		<u>mation</u>	ITRONIX CORPORATION 801 South Stevens Street Spokane, WA 99204 United States		
Laboratory Registrat			FCC:		714830	_	IC:	IC 3874	<u> </u>
Rule Part(s):		FCC:	§15.2	47; §	2.1091; §1.1	310	IC:	RSS-210	0 Issue 5
Device Classification:		FCC:	WLAI	N - D	SSS		- Digita	gital Transmission System (DTS)	
Device Classification.		FCC.	Bluet	ooth	- FHSS		- Part 1	15 Spread Spectrum Transmitter (DSS)	
Device Identification:		FCC ID:	KBCI	X260	PROA580B	Т	IC ID:	1943A-I	X260Pf
DUT Description:									
Model:		IX260PF	ROA58	0BT					
Device Description:		RangeS the Inte	tar sur el Pro	face- 2200	mount anter 0BG 802.11	nna (uppe 1b/g 2.4	er left sid GHz D	e rear of L SSS WLA	etooth Transmitter and internal LCD display), co-transmitting with AN Mini-PCI Card and internal LCD display)
Tx Frequency Range	/e)·	Bluetoot	th :	2402	- 2480 MHz	!			
TATTOQUOTION MATING	(5).	WLAN	:	2412	- 2462 MHz	1			
		Bluetoot	th	15.61	1 dBm / 0.03	64 Watts	(Peak C	onducted)	
Max. RF Output Pow	er:	WLAN	_	17.48	3 dBm / 0.05	60 Watts	(Peak C	onducted -	- 802.11b)
					5 dBm / 0.04		`	onducted -	- 802.11g)
Modulation Type(s):		Bluetoot			K 1 Mbps 0.8		ssian		
		WLAN			SK, DQPSK,	·			
Antenna Type(s):		J			0929 Dual In		I .		
Power Source(s):		Stationa	ry: 90 '	Watt	AC Power A	Adapter	11.1V L	ithium-ion	Battery, 6.0Ah (Model: A2121-2)

This wireless mobile transmitting 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 Part 15(C), Industry Canada RSS-210 Issue 5, and ANSI TIA/EIA-603-B-2002.

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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Russell Pipe

Senior Compliance Technologist

Celltech Labs Inc.

Duane M. Friesen EMC Manager

EMC Manager Celltech Labs Inc	: .			-
X260PROA580BT	IC ID.	1943A-IX260Pf	FCC ID:	KBC

Applicant:	Itronix Corpora	ation Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260	OPROA580BT
IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth								
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Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX26	OPROA580BT
IX260+ Rug	IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth							RONIX.
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Test Type(s):	FCC §15.247	IC RSS-2	210 Issue 5
Lab Registration(s):	FCC #714830	IC Lab	File #3874

	TEST SUMMARY						
	Referen	ced Standard: FCC CFI	R Title 47 Part 15				
<u>Appendix</u>	Test Description	Procedure Reference	Limit Reference	Test Start Date	Test End Date	Result	
В	Powerline Conducted Emissions	ANSI C63.4	§15.207	14Oct04	14Oct04	Pass	
С	Radiated Spurious Emissions	FCC 97-114	§15.247	01Oct04	05Oct04	Pass	
D	Restricted Band Emissions	FCC 97-114	§15.205 (a), (b) §15.209 (a)	01Oct04	05Oct04	Pass	
E	Maximum Permissible Exposure	FCC CFR 47 § 2.1091 IEEE Std C95.1-1999	§1.1310 Table 1 (b)	na	na	Pass	
	Refer	enced Standard: IC RS	S-210 Issue 5				
В	Powerline Conducted Emissions	RSS-212, ANSI C63.4	RSS-210 §6.6	14Oct04	14Oct04	Pass	
С	Radiated Spurious Emissions	RSS-212, ANSI C63.4	RSS-210 §6.2.2 (e1)	01Oct04	05Oct04	Pass	
D	Restricted Band Emissions	RSS-212, ANSI C63.4	RSS-210 §6.3	01Oct04	05Oct04	Pass	
Е	Maximum Permissible Exposure	RSS-102	RSS-210 §14 Safety Code 6 2.2.1(a) Table 5	na	na	Pass	

REVISION LOG

Issue	Description	Implemented By	Implementation Date
1.0	Initial Release	Jon Hughes	09May05

SIGNATORIES

Prepared By	D=	May 09, 2005
Name/Title	Duane M. Friesen, C.E.T. / EMC Manager	Date
Reviewed By	GH-	May 09, 2005
Name/Title	Jon Hughes / General Manager	Date

Applicant:	Itronix Corporation	nix Corporation Model: IX260PROA580BT IC ID: 1943A-IX260Pf		FCC ID:	KBCIX260PROA580BT		
IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth							(ITRONIX)
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Test Type(s):	FCC §15.247	IC RSS-2	210 Issue 5
Lab Registration(s):	FCC #714830	IC 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 Rugged Laptop PC with internal Cirronet BT2022 Bluetooth Transmitter co-transmitting with the Intel Pro 2200BG Mini-PCI 2.4 GHz DSSS WLAN card, each connected to separate Rangestar internal surfacemount antennas. This report describes the results obtained when inter-modulation product measurements were made with both transmitters installed in the Rugged Laptop PC as described, and transmitting simultaneously. The measurement results were applied against the EMC requirements and limits outlined in the technical rules and regulations set forth in the Federal Communication Commission Code of Federal Regulations Title 47 Part 15 Subpart C, and Industry Canada Radio Standards Specification RSS-210 Issue 5.

2.0 REFERENCES

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

CFR Title 47 Part 2:2003 Code of Federal Regulations

Title 47: Telecommunication

Frequency Allocations and Radio Treaty Matters; Part 2:

General Rules and Regulations

CFR Title 47 Part 15:2003 Code of Federal Regulations

> Title 47: Telecommunication Part 15: Radio Frequency Devices

IC Spectrum Management &

Radio Standards Specification

RSS-212 Issue 1 (Provisional) – Test Facilities & Test Methods for Radio Equipment **Telecommunications Policy**

RSS-210 Issue 5 – Low Power Licence-Exempt Radiocommunication Devices RSS-102 Issue 1 (Provisional) – Evaluation Procedure for Mobile and Portable Radio Transmitters with respect to Health Canada's Safety Code 6 for Exposure of

Humans to Radio Frequency Fields

Celltech Labs Test Report **EMC Test Report**

For the Model IX260PROA580BT Rugged Laptop PC with

Intel Pro 2200 BG Mini-PCI 2.4 GHz DSSS WLAN Card and Internal Antenna

Test Report Serial Number 022305KBC-T618-E15W

Date: May 09, 2005

Celltech Labs Test Report **EMC Test Report**

> For the Model IX260PROA580BT Rugged Laptop PC with Cirronet BT2022 Bluetooth Transmitter and Internal Antenna

Test Report Serial Number 022305KBC-T618-E15B

Date: May 09, 2005



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3.0 TERMS AND DEFINITIONS

AVG Average

CFR Code of Federal Regulations

dB decibel

dBm dB referenced to 1 mW dBuV dB referenced to 1 uV DUT Device under Test dBc dB down from carrier EBW Emission Bandwidth

EMC Electromagnetic Compatibility

FCC Federal Communication Commission FHSS Frequency Hopping Spread Spectrum

HP Hewlett Packard
HPF High Pass Filter

Hpol Horizontal Polarization

Hz Hertz

IC Industry Canada

kHz kilohertz

LNA Low Noise Amplifier

m meter MHz Megahertz

Mbps megabits per second not applicable not available

PK Peak

PPSD Peak Power Spectral Density

QP Quasi-peak

RBW Resolution Bandwidth R&S Rohde & Schwarz

RSS Radio Standard Specification

SA Spectrum Analyzer
VBW Video Bandwidth
Vpol Vertical Polarization

WLAN Wireless Local Area Network



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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:	801 South Stevens Street
	Spokane, WA 99204
	United States

5.2 DUT Description

The DUT consisted of the Model: IX260PROA580BT Rugged Laptop PC containing a Cirronet BT2022 Bluetooth Transmitter connected to an Internal Surface-Mount Antenna installed in the upper left side rear edge of the LCD display. Co-located within the Rugged Laptop PC was an Intel Pro 2200BG 802.11b/g WLAN Mini-PCI Card connected to a second Internal Surface-Mount Antenna installed in the upper right side rear edge of the LCD display. Photographs of the DUT placement and construction are shown in Appendix A.

Device:	Rugged La	Rugged Laptop PC				
Model:	IX260PROA580BT					
Serial Number:	ZZGEG4196ZZ6473					
Identifier(s):	FCC ID:	FCC ID: KBCIX260PROA580BT IC: 1943A-IX260Pf				
Power Source:	Delta Electronics Model ADP-90AB Rev B 90 Watt AC-DC power supply					

Device:	2.4GHz	2.4GHz FHSS Bluetooth Transmitter					
Model:	Cirrone	Cirronet BT2022					
Serial Number:	n/a	n/a					
Rule Part(s):	FCC:	§15.247; §2.1091; §1.1310	IC:	RSS-210 Issue 5			
Classification:	FCC:	FCC: Part 15 Spread Spectrum Transmitter (DSS) IC: Low Power Licence-Exempt Transmitte					
Power Source:	Powered from the internal PC power supply						

Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260PROA580BT
IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth						ITRONIX	
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Device:	2.4GH:	2.4GHz DSSS WLAN Mini-PCI Card				
Model:	Intel Pi	Intel Pro2200BG				
Serial Number:	06036C074ADC54906006					
Rule Part(s):	FCC:	§15.247; §2.1091; §1.1310	IC:	RSS-210 Issue 5		
Classification:	FCC:	Digital Transmission System (DTS)	IC:	Low Power Licence-Exempt Transmitter		
Power Source:	Powered from the internal PC power supply					

Device:	Internal Surface-Mount Antenna (Bluetooth - upper left side rear edge of the LCD display)			
Model:	RangeStar P/N: 100929			
Gain:	+4.5 dBi			

Device:	Internal Surface-Mount Antenna (WLAN - upper right side rear edge of the LCD display)			
Model:	RangeStar P/N: 100929			
Gain:	+4.5 dBi			

5.3 Co-Located Equipment

Device:	GPS Receiver Module with attached Antenna (Receive only)
Model:	Leadtek P/N GPS9547

5.4 Cable Descriptions

ROU	ΓING	Length	Model	Termin	ations	ns Shield Type Shield Termin		rmination	Suppression
From	То	m		End 1	End 2		End 1	End 2	
PC Fire Wire Port	Unterminated	1.0	Copartner E119932	IEEE-1528	Fire wire	n/a	n/a	n/a	None
PC modem port	Unterminated	1.0	n/a	RJ-11	RJ-11	None	na	na	None
PC Ethernet Port	Ethernet Hub	1.0	n/a	RJ-45	RJ-45	None	na	na	None

Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX2	60PROA580BT
IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth								
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5.5 Support Equipment

The following equipment was used in support of the DUT.

CO-LOCATED SUPPORT EQUIPMENT LIST						
MANUFACTURER	MANUFACTURER MODEL DESCRIPTION					
D-Link	DE-809TC/	Ethernet hub				
YNG YUH	YP-040	Hub power supply				
Mli	699	Speakers				
Polk Audio	n/a	Speaker-microphone				
DeLorme	Tripmate	GPS Receiver				
Intel	CS-430	Camera				
Logitech	M-S34	Mouse				

5.6 Clock Frequencies

5.6.1 DUT Clock Frequencies

Device:	Rugged Laptop PC
Clocks:	1.6 GHz processor
Device:	2.4GHz FHSS Cirronet Bluetooth Transmitter
Clocks:	n/a
Device:	2.4GHz DSSS WLAN Mini-PCI Card (802.11b/g)
Clocks:	40 MHz, f _o /1.5 (Low – 1608.000 MHz, Mid – 1624.667 MHz, High – 1641.333 MHz)
Device:	Internal Dual Surface-Mount Antennas
Clocks:	None

5.6.2 Co-Located Clock Frequencies

Device:	Peripherals
Clocks:	n/a



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5.7 Mode(s) of Operation Tested

5.7.1 Bluetooth Transmitter

Customer supplied software was used to place the Bluetooth Transmitter at the appropriate channel with the power level and modulation for the specific measurement.

TX Frequency Range:	2402 - 2480 MHz Ch. 0 (2402 MHz), Ch. 39 (2441 MHz) & Ch. 78 (2480 MHz) measured unless otherwise noted)
Software Power Gain Settings:	Ch. 0 - 250 /40 Ch. 39 - 250 /44 Ch. 78 - 220 /45
RF Peak Conducted Output Power Tested:	Ch. 0 - +15.40 dBm Ch. 39 - +15.61 dBm Ch. 78 - +15.34 dBm
Modulation Type(s):	GFSK 0.5 BT Gaussian
Modulation Frequency:	1000
Battery Type(s):	11.1V Lithium-lon, 6.0Ah (Model: A2121-2)

5.7.2 WLAN Mini-PCI Card

TX Frequency Range:	2412 - 2462 MHz Ch. 1 (2412 MHz), Ch. 6 (2437 MHz) & Ch. 11 (2462 MHz) measured unless otherwise noted)					
Software Power Gain Settings:	802.11b set to 29 802.11g set to 24.5					
RF Peak Conducted Output Power Tested:	802.11b 2412 MHz(1 Mbps) = 16.28 dBm 802.11b 2437 MHz(1 Mbps) = 16.79 dBm 802.11b 2462 MHz(1 Mbps) = 17.48 dBm 802.11g 2412 MHz(6 Mbps) = 15.14 dBm 802.11g 2437 MHz(6 Mbps) = 15.55 dBm 802.11g 2462 MHz(6 Mbps) = 16.15 dBm					
Modes / Data Rates	802.11b (1, 5.5, 11 Mbps checked in prescan) (1 Mbps determined to be worse case and used unless otherwise noted)					
Tested:	802.11g (6, 36, 54 Mbps checked in prescan) (6 Mbps determined to be worse case and used unless otherwise noted)					
Modulation Type(s):	OFDM with BPSK, QPSK, 16QAM, 64QAM, DBPSK, DQPSK, CCK					
Battery Type(s):	11.1V Lithium-lon, 6.0Ah (Model: A2121-2)					

5.7.3 <u>DUT Exercising Software Description</u>

The DUT was configured and exercised using customer supplied test software that allowed an operator to set the parameters of the Bluetooth transmitter and WLAN Mini-PCI card operation. The settings used are described in each appendix. More specific information on the configuration and exercising can be found in the referenced single-transmit test reports.

Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260PROA580BT
IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth							
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5.8 Configuration Description

The DUT was configured, as described by the client as being representative of what would be delivered to a final customer. More specific details may be included in each appendix.

5.8.1 Configuration Justification

The DUT was tested in a configuration described by the client as being worse case but 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.

Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260PROA580BT
IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth							(ITRONIX)
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Test Report Serial No.:	022305KBC-T618	Issue 1.0		
Test Date(s):	01Oct04 - 14Oct04			
Test Type(s):	FCC §15.247 IC RSS-210 Issue			
Lab Registration(s):	FCC #714830	IC Lab	File #3874	

APPENDICES

Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260PROA580BT
IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth							
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Test Report Serial No.:	022305KBC-T618	Issue 1.0		
Test Date(s):	01Oct04 - 14Oct04			
Test Type(s):	FCC §15.247 IC RSS-210 Issu			
Lab Registration(s):	FCC #714830	IC Lab	File #3874	

Appendix A - DUT Photographs

Photograph A-1 - Front of Open IX260+ Laptop PC



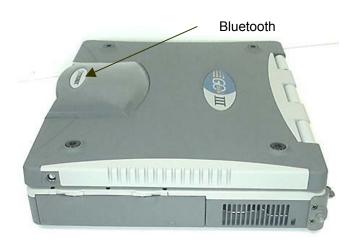
Photograph A-2 - Back of Open IX260+ Laptop PC



Photograph A-3 - WLAN Mini-PCI Card Location



Photograph A-4 - Bluetooth Transmitter Location



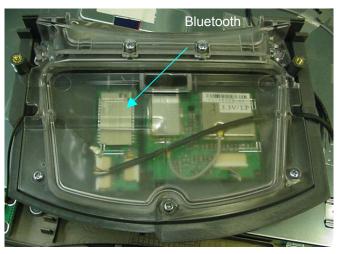


Test Report Serial No.:	022305KBC-T618	Issue 1.0		
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Test Type(s):	FCC §15.247 IC RSS-210 Issue			
Lab Registration(s):	FCC #714830	IC Lab	File #3874	

Photograph A-5 - WLAN Mini-PCI Card



Photograph A-6 - Bluetooth Transmitter



Photograph A-7 - Surface Mount Antenna Placement



Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260PROA580BT
IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth							
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Lab Registration(s):	FCC #714830	IC Lab	File #3874

Appendix B - Conducted Powerline Emissions Measurement

B.1. REFERENCES	
Normative Reference Standard	CFR 47 FCC Part 15 §15.207
Procedure Reference	ANSI C63.4

B.2. LIMITS

§15.207: Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each powerline and ground at the power terminal.

Frequency of Emission (MHz)	Conducted Limit (dBuV)				
	Quasi-Peak	Average			
0.15 – 0.5	66 to 56*	56 to 46*			
0.50 - 5.0	56	46			
5.0 – 30.0	60	50			

^{*}Decrease with the logarithm of the frequency

B.3. ENVIRONMENTAL CONDITIONS				
Temperature	+26 <u>+</u> 5 °C			
Humidity	31 % <u>+</u> 10% RH			
Barometric Pressure	101.4 kpa			

B.4. EQUIPMENT LIST								
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE			
00063	HP	85662A	Spectrum Analyzer Display	na	na			
00051	HP	8566B	Spectrum Analyzer RF Section	18May04	18May05			
00049	HP	85650A	Quasi-Peak Adapter	18May04	18May05			
00047	HP	85685A	Preselector	18May04	18May05			
00083	EMCO	3825/2	Line Impedance Stabilization Network	29Apr04	29Apr05			
00084	EMCO	3825/2	Line Impedance Stabilization Network	29Apr04	29Apr05			

Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260PROA580BT
IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth							
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Test Report Serial No.:	022305KBC-T618	Issue 1.0				
Test Date(s):	01Oct04 - 14Oct04					
Test Type(s):	FCC §15.247 IC RSS-210 Issu					
Lab Registration(s):	FCC #714830	IC Lab	File #3874			

B.5. MEASUREMENT EQUIP	MENT SETUP			
The conducted emissions were measured on each of the two AC powerline I connected to the DUT's power supply brick. A two line LISN was used to ma measurement. A drawing of the equipment setup is shown in B.7				
MEASUREMENT EQUIPMENT SETTINGS	Each of the monitor ports from the 2-line LISN was connected in turn to the spectrum analyzer. The port not connected to the analyzer was terminated in a 50-ohm load. A pre-scan of the peak emission levels was made of the 150 kHz – 30 MHz range split into 4 equal frequency bands. The following were the instrumentation settings: Spectrum Analyzer: Start Frequency and Stop Frequency set by software for each of the four bands RBW: 100 kHz VBW: 300 kHz Sweep: 500 mS Quasi-Peak Adapter: Normal – Automatic Bandwidth Setting: 9 kHz The resulting data from each band was corrected and collected by software and presented in the graphical representations shown in B.9 for the two leads. A defined set of frequency points of interest on each lead were used by software to optimize a set of readings for each type of detector (peak, quasi-peak and average).			

Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260PROA580BT	
IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth								
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Test Report Serial No.:	022305KBC-T618	Issue 1.0			
Test Date(s):	01Oct04 - 14Oct0				
Test Type(s):	FCC §15.247	247 IC RSS-210 Issue			
Lab Registration(s):	FCC #714830	IC Lab	File #3874		

B.6. SETUP PHOTOS

Photograph B-1 - AC Powerline Conducted Emission Configuration



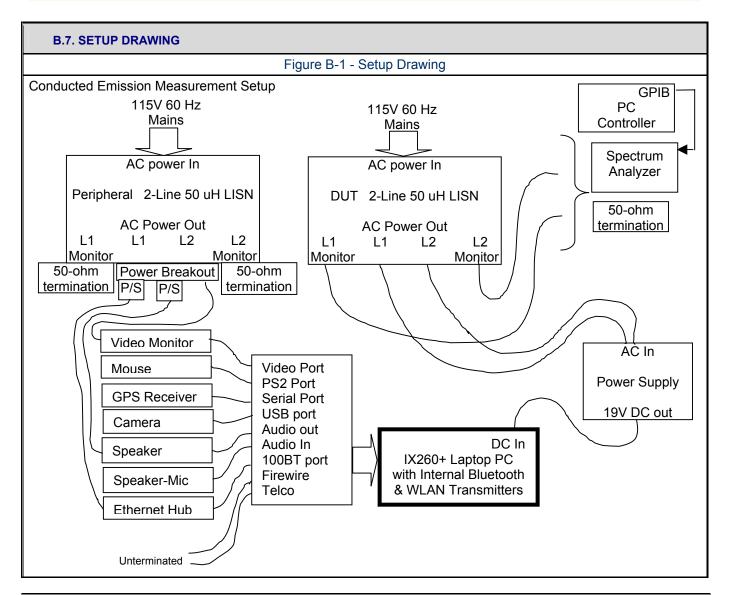
Photograph B-2 - AC Powerline Conducted Emission Cable Placement



Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260PROA580BT		
IX260+ Rug	Bluetooth	() ITRONIX							
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Test Report Serial No.:	022305KBC-T618	Issue 1.0				
Test Date(s):	01Oct04 - 14Oct04					
Test Type(s):	FCC §15.247	FCC §15.247 IC RSS-210 Issue				
Lab Registration(s):	FCC #714830	IC Lab	File #3874			



B.8. DUT OPERATING DESCRIPTION							
Bluetooth	While hopping channels, the Bluetooth transmitter was set to transmit a data stream with a max. power setting equivalent to that described in the referenced single-transmit test report.						
WLAN	The WLAN transmitter was set to transmit with a max. power setting equivalent to that described in the referenced single-transmit test report for 2462 MHz in Mode b.						
PC	Other than operating the Bluetooth software and running MS windows, no PC exercising was performed.						
Peripherals	All peripherals were active, but no specific traffic was initiated.						

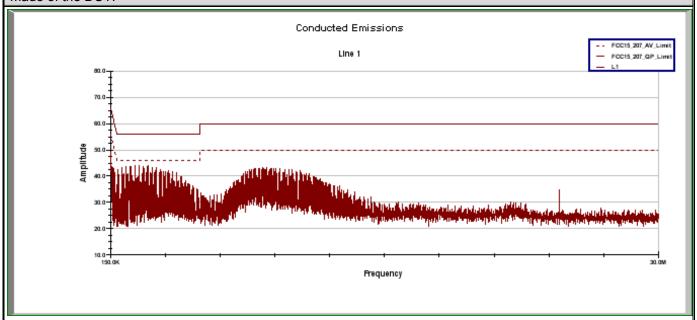
Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260PROA580BT	
IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth								
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Test Date(s):	01Oct04 - 14Oct04					
Test Type(s):	FCC §15.247 IC RSS-210 Issue					
Lab Registration(s):	FCC #714830	IC Lab	File #3874			

B.9. TEST RESULTS

Following are peak emission plots and tabular data describing the peak, quasi-peak and average measurements made of the DUT.

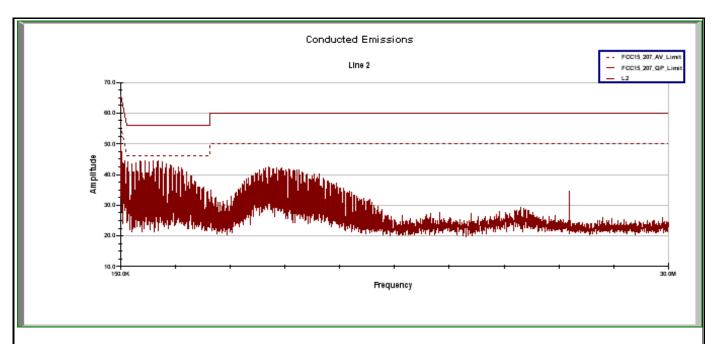


		_	Project Nur	nber:	072804KBC-	T543-E15VV/B			Standard:		FCC 15.207	
Ce	llte	ch	Company:		ttronix				Test Start D	ate:	14-Oct-04	
Testi	ng and Engineering 8	Services Lab	Product:	IX260+ with	Cirronet BT20	22 Bluetooth	% Intel 2200B	G WLAN	Test End Da	rte:	14-Oct-04	
					Line	1 Conducte	d Emission	ıs				
Frequency	Und	orrected Rea	ding	Correction Factor	Corre	Corrected Emission Level		Quasi-Peak Limit	Quasi-Peak Quasi-Peak	Average Limit	Average Margin	Pass/Fail
	Peak	Quasi-Peak	Average	1 dotoi	Peak	Quasi-Peak	Average		mai gii i	Liiiii	mai gii i	rass/i all
MHz	dBu∀	dBu∀	dBu∀	dB	dBu∀	dBu∀	dBu∀	dBu∀	dB	dBu∀	dB	
0.157	50.00	47.74	46.20	2.01	52.01	49.75	48.21	65.63	15.88	55.63	7.42	Pass
1.486	43.90	43.36	43.47	0.29	44.19	43.65	43.76	56.00	12.35	46.00	2.24	Pass
1.722	44.10	43.44	43.48	0.28	44.39	43.73	43.77	56.00	12.28	46.00	2.24	Pass
8.523	43.60	42.16	38.61	0.32	43.92	42.48	38.93	60.00	17.52	50.00	11.07	Pass
Corrected Emission Level (dBuV) = Uncorrected Reading (dBuV) + Correction Factor (dB) Margin (dB) = Limit (dBuV) - Corrected Emission Level (dBuV)												
	,			,								

Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX26	SOPROA580BT
IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth								FRONIX
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Test Report Serial No.:	022305KBC-T618	Issue 1.0				
Test Date(s):	01Oct04 - 14Oct04					
Test Type(s):	FCC §15.247 IC RSS-210 Issue					
Lab Registration(s):	FCC #714830	IC Lab	File #3874			



CE	elite	ch Services Lab	Project Nur Company: Product:		Itronix Cirronet BT20	022 Bluetooth	3. Intel 2200B	G WLAN	Standard: Test Start D Test End Da		14-Oct-04 14-Oct-04	
					Line	e 2 Conducte	d Emission	ıs				
reguency				Quasi-Peak Limit	Quasi-Peak Margin	Average Limit	Average Margin	Pass/Fail				
	Peak	Quasi-Peak	Average	1 dotor	Peak	Quasi-Peak	Average	Liiiii	margin	Lillin	mar giir	rass/rail
MHz	dBu∀	dBu∀	dBu∀	dΒ	dBu∀	dBu∀	dBu∀	dBu∀	dB	dBu∀	dB	
0.158	51.70	47.94	47.30	1.99	53.69	49.93	49.29	65.55	15.61	55.55	6.26	Pass
0.390	44.30	41.49	40.68	0.61	44.91	42.10	41.29	58.07	15.97	48.07	6.78	Pass
1.251	44.10	43.42	43.55	0.31	44.41	43.73	43.85	56.00	12.27	46.00	2.15	Pass
1.954	44.20	43.49	43.45	0.29	44.49	43.78	43.74	56.00	12.22	46.00	2.26	Pass
8.212	42.50	41.68	40.17	0.33	42.83	42.01	40.50	60.00	17.99	50.00	9.50	Pass
24.579	35.00	33.02	31.59	0.43	35.43	33.45	32.01	60.00	26.55	50.00	17.99	Pass
		_ , _ ,			~ ` '	Correction	actor (dB))				
vlargin (dB)	= Limit (di	Buv) - Corre	ected Emis	sion Level (aBuv)							

Applicant:	Itronix Cor	poration	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX	260PROA580BT
IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth									ITRONIX [®]
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Test Report Serial No.:	022305KBC-T618	Issue 1.0			
Test Date(s):	01Oct04 - 14Oct04				
Test Type(s):	FCC §15.247	IC RSS-210 Issue 5			
Lab Registration(s):	FCC #714830	IC Lab	File #3874		

B.10. PASS/FAIL

In reference to the results outlined in B.9 the DUT passes the requirements as stated in the reference standards as follows: The RF voltage measured in reference to ground on each of the power line conductors does not exceed the limits as outlined in FCC 15.207.

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.

Duane M. Friesen, C.E.T.

EMC Manager Celltech Labs Inc.

14Oct04

Date



Test Report Serial No.:	022305KBC-T618	Issue 1.0			
Test Date(s):	01Oct04 - 14Oct04				
Test Type(s):	FCC §15.247 IC RSS-210 Issue				
Lab Registration(s):	FCC #714830	IC Lab	File #3874		

Appendix C - Radiated Spurious Emissions Measurement

C.1. REFERENCES	
Normative Reference Standard	FCC CFR 47 §15.247I
Procedure Reference	ANSI C63.4; FCC 97-114

C.2. LIMITS

C.2.1. FCC CFR 47

§15.247 I: In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of desired power, based on either an RF conducted or a radiated measurement. Attenuation below the general limits specified in 15.209 (a) is not required.

Note: Spurious emissions within the restricted bands are reported in Appendix I.

C.3. ENVIRONMENTAL COND	C.3. ENVIRONMENTAL CONDITIONS					
Temperature	27.4 +/- 2 °C					
Humidity	33 +/- 2 %					
Barometric Pressure	96.24 +/- 0.2 kPa					

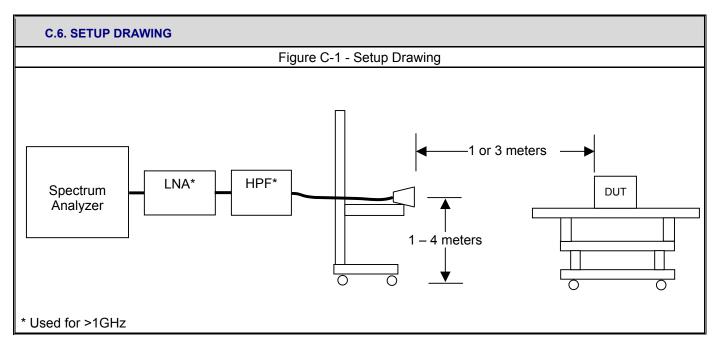
C.4. EQUIPME	C.4. EQUIPMENT LIST									
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE					
00072	EMCO	2075	Mini-mast	n/a	n/a					
00073	EMCO	2080	Turn Table	n/a	n/a					
00071	EMCO	2090	Multi-Device Controller	n/a	n/a					
00050	Chase	CBL-6111A	Bilog Antenna	30Apr04	30Apr05					
00035	ETS	3115	Double Ridged Guide Horn	24Mar04	24Mar05					
00202	ETS	3160-09	Small Horn Antenna	27May04	27Jun05					
00015	Agilent	E4408B	Spectrum Analyzer	29Dec03	29Dec04					
00049	HP	8566B	Spectrum Analyzer RF Section	18May04	18May05					
00049	HP	85650A	Quasi-peak Adapter	18May04	18May05					
00047	HP	85685A	RF Preselector	18May04	18May05					
00048	Gore	65474	Microwave Cable	20May04	20May05					
00030	HP	83017A	LNA	20May04	20May05					

Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260PROA580BT		
IX260+ Rug	Bluetooth	(ITRONIX)							
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Test Report Serial No.:	022305KBC-T618-E15W/B Issue				
Test Date(s):	01Oct04 - 14Oct04				
Test Type(s):	FCC §15.247 IC RSS-210 Issue 5				
Lab Registration(s):	FCC #714830	IC Lab	File #3874		

	The measurement equipment was connected as shown in E.6. A number of antennas were used to cover the applicable frequency range test. The ranges in which each antenna was used are as follows:							
MEASUREMENT EQUIPMENT CONNECTIONS	Frequency R	Range	Antenna					
	30 MHz – 1	GHz	CBL-61	11A Bilog				
	1 GHz – 18	GHz	ETS 3115 Horn					
	18 GHz – 26	6GHz	ETS 3160-09 Horn					
	The spectrum analyzer was set to the following settings:							
	Frequency Range	RBW	VBW	Detector				
MEASUREMENT	MHz	kHz	KHZ KHZ					
EQUIPMENT SETTINGS	30 – 1000	100	300	Peak*				
	> 1000	1000*	1000	Peak*				



Applicant:	Itronix Corporation	n Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260PRC	DA580BT	
IX260+ Rug	Bluetooth	ITROI	NIX.						
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Test Date(s):	01Oct04 - 14Oct04				
Test Type(s):	FCC §15.247 IC RSS-210 Issue				
Lab Registration(s):	FCC #714830	IC Lab	File #3874		

C.7. SETUP PHOTOGRAPHS

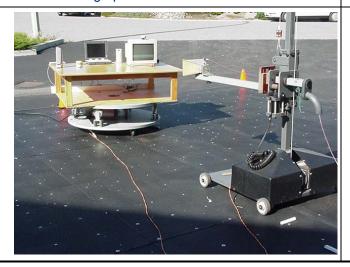
Photograph C-1 - Loop Antenna (10kHz - 30MHz)



Photograph C-2 - Bilog Antenna (30MHz - 1 GHz)



Photograph C-3 - 3115 Horn Antenna



Photograph C-4 - 3160-09 Horn Antenna



C.8. DUT OPERATING DESCRIPTION

Measurements were made of the bands that may contain inter-modulation products with both the Bluetooth and WLAN radios transmitting. Measurements were made for each combination of channels with each radio transmission modulated and with power settings equivalent to those described in the referenced single-transmit test reports.

Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260PROA580BT
IX260+ Rug	IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth						
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Test Date(s):	01Oct04 - 14Oct04			
Test Type(s):	FCC §15.247	IC RSS-2	210 Issue 5	
Lab Registration(s):	FCC #714830	IC Lab	File #3874	

C.9. TEST RESULTS

All significant inter-modulations products were measured as they related to the restricted band limit. This comparison was worst-case (versus an out of band emission limit comparison) and described in Appendix D of this report. All other spurious emissions are described in the appropriate sections in the individual reports referenced.

C.10. PASS/FAIL

In reference to the results outlined in D.9, the DUT passes the requirements as stated in the reference standards as follows: FCC 15.247 I: All emissions within any 100kHz bandwidth outside the operating frequency band are greater than 20 dB below the maximum 100 kHz bandwidth signal within the operating band.

C.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.

Russell Pipe

Senior Compliance Technologist

sull W. Pupe

Celltech Labs Inc.

14Oct04

Date



Test Report Serial No.:	022305KBC-T618	Issue 1.0	
Test Date(s):	01Oct04 - 14Oct0		
Test Type(s):	FCC §15.247	IC RSS-2	210 Issue 5
Lab Registration(s):	FCC #714830	IC Lab	File #3874

Appendix D - Restricted Band Emissions Measurement

D.1. REFERENCES	
Normative Reference Standard	FCC CFR 47 §15.205 (a) (b), FCC CFR 47 §15.209 (a)
Procedure Reference	FCC 97-114

D.2. LIMITS								
FCC CFR 47 §15.205	(a) Except as shown in paragraph (frequency bands listed below:	d) of this section, only spuriou	is emissions are pern	nitted in any of the				
	MHz	MHz	MHz	GHz				
	0.090-0.110 10.495-0.505 2.1735-2.1905 4.125-4.128 4.17725-4.17775 4.20725-4.20775 6.215-6.218 6.26775-6.26825 6.31175-6.31225 8.291-8.294 8.362-8.366 8.37625-8.38675 8.41425-8.41475 12.29-12.293 12.51975-12.52025 12.57675-12.57725 13.36-13.41	16.69475–16.69525 16.80425–16.80475 25.5–25.67 37.5–38.25 73–74.6 74.8–75.2 108–121.94 123–138 149.9–150.05 156.52475–156.5255 156.7–156.9 162.0125–167.17 167.72–173.2 240–285 322–335.4	399.9-410 608-614 960-1240 1300-1427 1435-1626.5 1645.5-1646.5 1660-1710 1718.8-1722.2 2200-2300 2310-2390 2483.5-2500 2655-2900 3260-3267 3332-3339 3345.8-3358 3600-4400	4.5-5.15 5.35-5.46 7.25-7.75 8.025-8.5 9.0-9.2 9.3-9.5 10.6-12.7 13.25-13.4 14.47-14.5 15.35-16.2 17.7-21.4 22.01-23.12 23.6-24.0 31.2-31.8 36.43-36.5 (2)				
	(b) Except as provided in paragraphs (d) and (e), the field strength of emissions appearing within these frequency bands shall not exceed the limits shown in 15.209. At frequencies equal to or less than 1000 MHz, compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasipeak detector. Above 1000 MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions of 15.35 apply to these measurements.							
FCC CFR 47 §15.209	(a) Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:							
	Frequency	Field Strength	Meas	Measurement Distance				
	MHz	uV/m		Meters				
	.009 – 0.490	2400/F(kHz)		300				
	0.490 – 1.705	24000/F(kHz)		30				
	1.705 – 30.0	30		30				
	30 – 88	100		3				
	88 – 216	150		3				
	216 – 960	200		3				
	Above 960	500		3				
	(b) In the emission table above, the	tighter limit applies at the bar	nd edges.					

Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260PROA580BT
IX260+ Rug	IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth						
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Test Report Serial No.:	022305KBC-T618-E15W/B Issue		
Test Date(s):	01Oct04 - 14Oct04		
Test Type(s):	FCC §15.247	IC RSS-2	210 Issue 5
Lab Registration(s):	FCC #714830	IC Lab	File #3874

ENVIRONMENTAL CONDITIONS		
Temperature	27.4 +/- 2 °C	
Humidity	33 +/- 2 %	
Barometric Pressure	96.24 +/- 0.2 kPa	

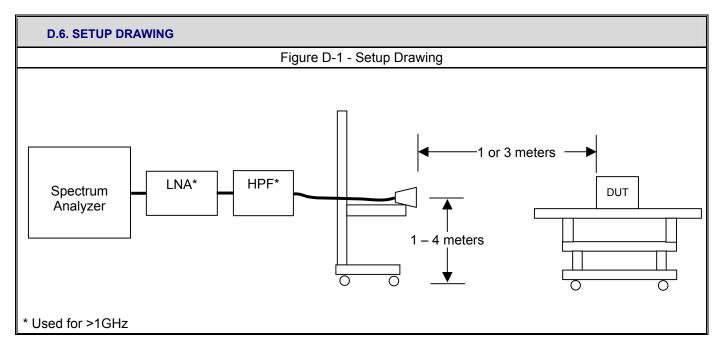
EQUIPMENT LIST						
ASSET NUMBER	MANUFACTURER	MODEL	DESCRIPTION	LAST CAL	CAL DUE	
00072	EMCO	2075	Mini-mast	n/a	n/a	
00073	EMCO	2080	Turn Table	n/a	n/a	
00071	EMCO	2090	Multi-Device Controller	n/a	n/a	
00085	EMCO	6502	Loop Antenna	10Aug04	10Aug05	
00050	Chase	CBL-6111A	Bilog Antenna	30Apr04	30Apr05	
00035	ETS	3115	Double Ridged Guide Horn	24Mar04	24Mar05	
00202	ETS	3160-09	Small Horn Antenna	27May04	27Jun05	
00015	Agilent	E4408B	Spectrum Analyzer	29Dec03	29Dec04	
00049	HP	8566B	Spectrum Analyzer RF Section	18May04	18May05	
00049	HP	85650A	Quasi-peak Adapter	18May04	18May05	
00047	HP	85685A	RF Preselector	18May04	18May05	
00048	Gore	65474	Microwave Cable	20May04	20May05	
00030	HP	83017A	LNA	20May04	20May05	

Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260PROA580BT
IX260+ Rug	IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth						
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Test Report Serial No.:	022305KBC-T618-E15W/B Issue		
Test Date(s):	01Oct04 - 14Oct04		
Test Type(s):	FCC §15.247	IC RSS-2	210 Issue 5
Lab Registration(s):	FCC #714830	IC Lab	File #3874

	The measurement equipment was connected as shown in F.6. A number of antennas were used to cover the applicable frequency range test. The ranges in which each antenna was used are as follows					
	Frequency	Range	Ar	tenna		
MEASUREMENT	9 kHz – 15	i0 kHz	LP-1	05 Loop		
EQUIPMENT CONNECTIONS	150 kHz – 3	80 MHz	LG-1	05 Loop		
COMMEDITIONS	30 MHz –	1 GHz	CBL-6	111A Bilog		
	1 GHz – 18	8 GHz	ETS 3115 Horn			
	18 GHz- 2	6GHz	ETS 3160-09 Horn			
	The spectrum analyzer was set to the following settings:					
	Frequency Range	RBW	VBW	Detector		
	MHz	kHz	kHz	Detector		
MEASUREMENT	0.009 - 0.150	0.200	10	Peak*		
EQUIPMENT	0.150 – 30	9	30	Peak*		
SETTINGS	30 – 1000	100	300	Peak*		
	> 1000	1000*	1000	Peak*		



Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260PROA580BT		
IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth									
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Test Report Serial No.:	022305KBC-T618	Issue 1.0						
Test Date(s):	01Oct04 - 14Oct04							
Test Type(s):	FCC §15.247 IC RSS-210 Issue							
Lab Registration(s):	FCC #714830 IC Lab File #38							

D.7. SETUP PHOTOGRAPHS

Photograph D-1 - Horizontal Polarization (30MHz - 1 GHz)



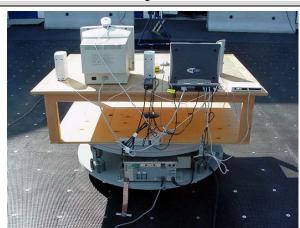
Photograph D-3 - Front of Radiated Emission Configuration



Photograph D-2 - Vertical Polarization (30MHz - 1 GHz)



Photograph D-4 - Back of Radiated Emission Configuration



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Test Report Serial No.:	022305KBC-T618	022305KBC-T618-E15W/B Is:						
Test Date(s):	01Oct04 - 14Oct0							
Test Type(s):	FCC §15.247 IC RSS-210 Issue							
Lab Registration(s):	FCC #714830	IC Lab	File #3874					

D.8. DUT OPERATING DESCRIPTION

Measurements were made of the bands that may contain inter-modulation products with both the Bluetooth and WLAN radios transmitting. Each combination of channels with each radio transmission modulated and with power settings equivalent to those described in the referenced single-transmit test reports was tested. The fundamental carrier power for each radio, as well as those of the inter-modulation products of interest were recorded. A matrix of the channel combinations investigated is outlined below:

Bluetooth Frequency	WLAN Frequency	Lower InterMod of Interest	Frequency Checked	Comment
MHz	MHz	MHz	MHz	
2402	2412	2392	2392	out-of-band (restricted limit applied)
2402	2437	2367	2367	restricted band 2310-2390
2402	2462	2342	2342	restricted band 2310-2390
2441	2412	2383	2383	restricted band 2310-2390
2441	2437	2433	2390	out-of-band (band-edge checked)
2441	2462	2420	2390	out-of-band (band-edge checked)
2480	2412	2344	2344	restricted band 2310-2390
2480	2437	2394	2390	out-of-band (band-edge checked)
2480	2462	2444	2390	out-of-band (band-edge checked)
Bluetooth Frequency	WLAN Frequency	Upper InterMod of	Frequency Checked	
	Trequency	Interest	Checked	Comment
MHz	MHz	Interest MHz	MHz	Comment
MHz 2402				out-of-band (band-edge checked)
	MHz	MHz	MHz	
2402	MHz 2412	MHz 2422	MHz 2483.5	out-of-band (band-edge checked)
2402 2402	MHz 2412 2437	MHz 2422 2472	MHz 2483.5 2483.5	out-of-band (band-edge checked) out-of-band (band-edge checked)
2402 2402 2402	MHz 2412 2437 2462	MHz 2422 2472 2522	MHz 2483.5 2483.5 2522	out-of-band (band-edge checked) out-of-band (band-edge checked) out-of-band (restricted limit applied)
2402 2402 2402 2441	MHz 2412 2437 2462 2412	MHz 2422 2472 2522 2470	MHz 2483.5 2483.5 2522 2483.5	out-of-band (band-edge checked) out-of-band (band-edge checked) out-of-band (restricted limit applied) out-of-band (band-edge checked)
2402 2402 2402 2441 2441	MHz 2412 2437 2462 2412 2437	MHz 2422 2472 2522 2470 2445	MHz 2483.5 2483.5 2522 2483.5 2483.5	out-of-band (band-edge checked) out-of-band (band-edge checked) out-of-band (restricted limit applied) out-of-band (band-edge checked) out-of-band (band-edge checked)
2402 2402 2402 2441 2441 2441	MHz 2412 2437 2462 2412 2437 2462	MHz 2422 2472 2522 2470 2445 2483	MHz 2483.5 2483.5 2522 2483.5 2483.5 2483	out-of-band (band-edge checked) out-of-band (band-edge checked) out-of-band (restricted limit applied) out-of-band (band-edge checked) out-of-band (band-edge checked) out-of-band (restricted limit applied)

Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260PROA580BT		
IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth									
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Test Report Serial No.:	022305KBC-T618-E15W/B Issue 1							
Test Date(s):	01Oct04 - 14Oct04							
Test Type(s):	FCC §15.247 IC RSS-210 Issue 5							
Lab Registration(s):	FCC #714830 IC Lab File #387							

D.9. TEST RESULTS

D.9.1. Low Bluetooth Channel Carrier Field Strength @ Specified Distance

Project Number: Company: Product: 072804KBC-T543-E15W/B

Itronix

IX260+ with Co-Transmitting Bluetooth and WLAN

Standard: Test Start Date: FCC15.247a

 Test Start Date:
 04Oct04

 Test End Date:
 12Oct04

			Seeing and Engineering Services La															
					Bluetoot	h Cl	l 0 (2402	MHz)	co-transn	nitting with \	VLAN Ca	arrier Field	Strengths					
Co-transmit Channel	Polarity	Measurement Distance	Antenna	Carrier Freq	SA Level	Noise Floor	AF	CL	Other	*Duty Cycle Correction	Total CF	Field Strength	Detector	Limit Distance	Limit Distance Correction	Calculated Limit	Margin	Pass/Fail
		m		MHz	dBuV		dB/m	dB	dB	dB	dB/m	dBuV/m		m	dB	dBuV/m	dB	
					Blue	toot	th Carrie	r Field	Strengths	with WLAN	Mode b	Co-Transn	nitting					
WLAN-2412b	Н	3	Horn SN6276	2402.15	102.90		30.24	3.48	-36.56	0.00	-2.84	100.06	PK	3	0.00	116.20	16.14	PASS
WLAN-2437b	I	3	Horn SN6276	2402.18	104.70		30.24	3.48	-36.56	0.00	-2.84	101.86	PK	3	0.00	116.20	14.34	PASS
WLAN-2462b	Η	3	Horn SN6276	2402.27	103.00		30.24	3.48	-36.56	0.00	-2.84	100.16	PK	3	0.00	116.20	16.04	PASS
WLAN-2412b	٧	3	Horn SN6276	2402.00	96.90		30.24	3.48	-36.56	0.00	-2.84	94.06	PK	3	0.00	116.20	22.14	PASS
WLAN-2437b	٧	3	Horn SN6276	2402.24	96.80		30.24	3.48	-36.56	0.00	-2.84	93.96	PK	3	0.00	116.20	22.24	PASS
WLAN-2462b	٧	3	Horn SN6276	2402.16	96.80		30.24	3.48	-36.56	0.00	-2.84	93.96	PK	3	0.00	116.20	22.24	PASS
					WLA	AN M	lode b C	arrier F	ield Strer	ngths with B	luetooth	Co-Transn	nitting					
WLAN-2412b	Н	3	Horn SN6276	2412.92	93.20		30.26	3.49	-36.55	0.00	-2.80	90.40	PK	3	0.00	116.20	25.80	PASS
WLAN-2437b	Η	3	Horn SN6276	2435.95	93.60		30.30	3.51	-36.51	0.00	-2.71	90.89	PK	3	0.00	116.20	25.31	PASS
WLAN-2462b	Н	3	Horn SN6276	2462.93	94.60		30.34	3.52	-36.47	0.00	-2.62	91.98	PK	3	0.00	116.20	24.21	PASS
WLAN-2412b	٧	3	Horn SN6276	2412.92	89.50		30.26	3.49	-36.55	0.00	-2.80	86.70	PK	3	0.00	116.20	29.50	PASS
WLAN-2437b	٧	3	Horn SN6276	2435.90	86.80		30.30	3.51	-36.51	0.00	-2.71	84.09	PK	3	0.00	116.20	32.11	PASS
WLAN-2462b	٧	3	Horn SN6276	2463.01	88.40		30.34	3.52	-36.47	0.00	-2.62	85.78	PK	3	0.00	116.20	30.41	PASS
					Blue	toot	th Carrie	r Field	Strengths	with WLAN	Mode g	Co-Transn	nitting					
WLAN-2412g	Н	3	Horn SN6276	2402.21	103.00		30.24	3.48	-36.56	0.00	-2.84	100.16	PK	3	0.00	116.20	16.04	PASS
WLAN-2437g	Н	3	Horn SN6276	2402.20	101.20		30.24	3.48	-36.56	0.00	-2.84	98.36	PK	3	0.00	116.20	17.84	PASS
WLAN-2462g	Н	3	Horn SN6276	2402.25	102.00		30.24	3.48	-36.56	0.00	-2.84	99.16	PK	3	0.00	116.20	17.04	PASS
WLAN-2412g	٧	3	Horn SN6276	2402.23	97.30		30.24	3.48	-36.56	0.00	-2.84	94.46	PK	3	0.00	116.20	21.74	PASS
WLAN-2437g	٧	3	Horn SN6276	2402.23	97.00		30.24	3.48	-36.56	0.00	-2.84	94.16	PK	3	0.00	116.20	22.04	PASS
WLAN-2462g	V	3	Horn SN6276	2402.27	95.90		30.24	3.48	-36.56	0.00	-2.84	93.06	PK	3	0.00	116.20	23.14	PASS
					WLA	AN M	lode g C	arrier F	ield Strer	ngths with B	luetooth	Co-Transn	nitting					
WLAN-2412g	Η	3	Horn SN6276	2414.83	93.30		30.26	3.49	-36.55	0.00	-2.79	90.51	PK	3	0.00	116.20	25.69	PASS
WLAN-2437g	Н	3	Horn SN6276	2440.85	90.50		30.31	3.51	-36.51	0.00	-2.69	87.81	PK	3	0.00	116.20	28.39	PASS
WLAN-2462g	Н	3	Horn SN6276	2463.21	93.30		30.34	3.52	-36.47	0.00	-2.61	90.69	PK	3	0.00	116.20	25.51	PASS
WLAN-2412g	٧	3	Horn SN6276	2409.82	85.10		30.26	3.49	-36.55	0.00	-2.81	82.29	PK	3	0.00	116.20	33.91	PASS
WLAN-2437g	V	3	Horn SN6276	2436.98	85.80		30.30	3.51	-36.51	0.00	-2.70	83.10	PK	3	0.00	116.20	33.10	PASS
WLAN-2462g	٧	3	Horn SN6276	2463.38	87.50		30.34	3.52	-36.47	0.00	-2.61	84.89	PK	3	0.00	116.20	31.31	PASS

Formulae:

Total CF = AF + CL + Other

Field Strength = SA Level + Total CF

*Worst case Duty Cycle of 100% used

Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX	260PROA580BT			
IX260+ Rug	IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth										
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Test Report Serial No.:	022305KBC-T618-E15W/B Issue 1							
Test Date(s):	01Oct04 - 14Oct04							
Test Type(s):	FCC §15.247 IC RSS-210 Issue 5							
Lab Registration(s):	FCC #714830 IC Lab File #387							

D.9.2. Mid Bluetooth Channel Carrier Field Strength @ Specified Distance

Project Number: Celltech Product:

072804KBC-T543-E15W/B Itronix

Standard: Test Start Date: FCC15.247a 04Oct04 12Oct04

			elltech	Product:		IX2		Co-Trar	nsmitting	Bluetooth and	WLAN				Test End Dat		12Oct04	
					Bluetooth	СН	39 (2441	MHz)	co-trans	mitting with V	/LAN Ca	rrier Field	Strengths					
Co-transmit Channel	Polarity	Measurement Distance	Antenna	Carrier Freq	SA Level	Noise Floor	AF	CL	Other	*Duty Cycle Correction	Total CF	Field Strength	Detector	Limit Distance	Limit Distance Correction	Calculated Limit	Margin	Pass/Fail
		m		MHz	dBuV		dB/m	dB	dB	dB	dB/m	dBuV/m		m	dB	dBuV/m	dB	
					Blue	toot	h Carrie	r Field :	Strength	s with WLAN I	Mode b C	o-Transmi	tting					
WLAN-2412b	Н	3	Horn SN6276	2441.29	102.80		30.31	3.51	-36.51	0.00	-2.69	100.11	PK	3	0.00	116.20	16.09	PASS
WLAN-2437b	Н	3	Horn SN6276	2441.24	104.40		30.31	3.51	-36.51	0.00	-2.69	101.71	PK	3	0.00	116.20	14.49	PASS
WLAN-2462b	Н	3	Horn SN6276	2441.22	102.50		30.31	3.51	-36.51	0.00	-2.69	99.81	PK	3	0.00	116.20	16.39	PASS
WLAN-2412b	٧	3	Horn SN6276	2441.22	96.70		30.31	3.51	-36.51	0.00	-2.69	94.01	PK	3	0.00	116.20	22.19	PASS
WLAN-2437b	٧	3	Horn SN6276	2441.19	96.60		30.31	3.51	-36.51	0.00	-2.69	93.91	PK	3	0.00	116.20	22.29	PASS
WLAN-2462b	٧	3	Horn SN6276	2441.20	95.20		30.31	3.51	-36.51	0.00	-2.69	92.51	PK	3	0.00	116.20	23.69	PASS
					WLA	N M	ode b C	arrier F	ield Strei	ngths with Blu	etooth C	o-Transmi	tting					
WLAN-2412b	Н	3	Horn SN6276	2412.91	91.20		30.26	3.49	-36.55	0.00	-2.80	88.40	PK	3	0.00	116.20	27.80	PASS
WLAN-2437b	Н	3	Horn SN6276	2436.03	93.90		30.30	3.51	-36.51	0.00	-2.71	91.19	PK	3	0.00	116.20	25.01	PASS
WLAN-2462b	Н	3	Horn SN6276	2463.21	94.90		30.34	3.52	-36.47	0.00	-2.61	92.29	PK	3	0.00	116.20	23.91	PASS
WLAN-2412b	٧	3	Horn SN6276	2412.86	88.80		30.26	3.49	-36.55	0.00	-2.80	86.00	PK	3	0.00	116.20	30.20	PASS
WLAN-2437b	٧	3	Horn SN6276	2436.08	88.20		30.30	3.51	-36.51	0.00	-2.71	85.49	PK	3	0.00	116.20	30.71	PASS
WLAN-2462b	٧	3	Horn SN6276	2461.00	88.00		30.34	3.52	-36.48	0.00	-2.62	85.38	PK	3	0.00	116.20	30.82	PASS
					Blue	toot	h Carrie	r Field :	Strength	s with WLAN I	Mode g C	o-Transmi	tting					
WLAN-2412g	Н	3	Horn SN6276	2441.18	104.20		30.31	3.51	-36.51	0.00	-2.69	101.51	PK	3	0.00	116.20	14.69	PASS
WLAN-2437g	Н	3	Horn SN6276	2441.18	104.70		30.31	3.51	-36.51	0.00	-2.69	102.01	PK	3	0.00	116.20	14.19	PASS
WLAN-2462g	Н	3	Horn SN6276	2441.20	102.50		30.31	3.51	-36.51	0.00	-2.69	99.81	PK	3	0.00	116.20	16.39	PASS
WLAN-2412g	٧	3	Horn SN6276	2441.18	96.60		30.31	3.51	-36.51	0.00	-2.69	93.91	PK	3	0.00	116.20	22.29	PASS
WLAN-2437g	٧	3	Horn SN6276	2441.25	98.70		30.31	3.51	-36.51	0.00	-2.69	96.01	PK	3	0.00	116.20	20.19	PASS
WLAN-2462g	٧	3	Horn SN6276	2441.22	96.80		30.31	3.51	-36.51	0.00	-2.69	94.11	PK	3	0.00	116.20	22.09	PASS
					WLA	N M	ode g C	arrier F	ield Strei	ngths with Blu	etooth C	o-Transmi	tting					
WLAN-2412g	Н	3	Horn SN6276	2413.75	93.60		30.26	3.49	-36.55	0.00	-2.80	90.80	PK	3	0.00	116.20	25.39	PASS
WLAN-2437g	Н	3	Horn SN6276	2436.45	93.30		30.30	3.51	-36.51	0.00	-2.71	90.59	PK	3	0.00	116.20	25.60	PASS
WLAN-2462g	Н	3	Horn SN6276	2465.41	93.30		30.34	3.52	-36.47	0.00	-2.61	90.69	PK	3	0.00	116.20	25.51	PASS
WLAN-2412g	V	3	Horn SN6276	2414.22	87.60		30.26	3.49	-36.55	0.00	-2.79	84.81	PK	3	0.00	116.20	31.39	PASS
WLAN-2437g	٧	3	Horn SN6276	2436.33	86.20		30.30	3.51	-36.51	0.00	-2.71	83.49	PK	3	0.00	116.20	32.71	PASS
WLAN-2462g	V	3	Horn SN6276	2458.99	86.40		30.33	3.52	-36.48	0.00	-2.63	83.77	PK	3	0.00	116.20	32.42	PASS
	_	_				_										ll		

Formulae:

Total CF = AF + CL + Other

Field Strength = SA Level + Total CF

*Worst case Duty Cycle of 100% used

Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260PROA580BT		
IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth									
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Test Report Serial No.:	022305KBC-T618-E15W/B Issue 1							
Test Date(s):	01Oct04 - 14Oct04							
Test Type(s):	FCC §15.247 IC RSS-210 Issue 5							
Lab Registration(s):	FCC #714830 IC Lab File #387							

D.9.3. High Bluetooth Channel Carrier Field Strength @ Specified Distance

Project Number: 072804KBC-T543-E15W/B Company: Product: Itronix

IX260+ with Co-Transmitting Bluetooth and WLAN

Standard: Test Start Date: Test End Date:

FCC15.247a 04Oct04

				hating and Engineering Section 1 of															
Mile						Bluetooth	СН	79 (2480	MHz)	co-transmitti	ng with \	VLAN Ca	rrier Field	Strengths					
Mary	Co-transmit Channel	Polarity	Measurement Distance	Antenna	Carrier Freq	SA Level		AF	CL		Other	Total CF		Detector	Limit Distance	Distance		Margin	Pass/Fail
WILAN-2412b			m		MHz										m	dB	dBuV/m	dB	
WILAN-2437b		_		1		Blue	toot	h Carrie	Field	Strengths wit	h WLAN	Mode g C	Co-Transm	itting					
WILAN-2462b H 3 Hom SN6276 2480.21 101.20 30.37 3.51 0.00 -36.45 -2.56 89.64 PK 3 0.00 116.20 17.56 PASS WILAN-2412b V 3 Hom SN6276 2480.20 92.30 30.37 3.51 0.00 -36.45 -2.56 89.74 PK 3 0.00 116.20 25.86 PASS WILAN-2437b V 3 Hom SN6276 2480.20 94.70 30.37 3.51 0.00 -36.45 -2.56 89.74 PK 3 0.00 116.20 24.06 PASS WILAN-2412b V 3 Hom SN6276 2480.20 94.70 30.37 3.51 0.00 -36.45 -2.56 89.74 PK 3 0.00 116.20 24.06 PASS WILAN-2412b H 3 Hom SN6276 2412.91 92.20 30.26 3.49 0.00 -36.55 -2.80 89.40 PK 3 0.00 116.20 24.06 PASS WILAN-2412b H 3 Hom SN6276 2412.91 92.20 30.30 3.51 0.00 -36.55 -2.80 89.40 PK 3 0.00 116.20 26.80 PASS WILAN-2412b H 3 Hom SN6276 2412.91 92.20 30.30 3.51 0.00 -36.55 -2.80 89.40 PK 3 0.00 116.20 25.22 PASS WILAN-2412b V 3 Hom SN6276 2412.96 86.80 30.26 3.49 0.00 -36.55 -2.80 84.00 PK 3 0.00 116.20 25.22 PASS WILAN-2412b V 3 Hom SN6276 2412.96 86.80 30.26 3.49 0.00 -36.55 -2.80 84.00 PK 3 0.00 116.20 32.20 PASS WILAN-2412b V 3 Hom SN6276 2412.96 86.80 30.30 3.51 0.00 -36.55 -2.80 84.00 PK 3 0.00 116.20 32.20 PASS WILAN-2412b V 3 Hom SN6276 2480.92 87.90 30.34 3.52 0.00 -36.55 -2.80 84.00 PK 3 0.00 116.20 31.60 PASS WILAN-2412b V 3 Hom SN6276 2480.92 87.90 30.34 3.52 0.00 -36.55 -2.80 84.60 PK 3 0.00 116.20 31.60 PASS WILAN-2412b V 3 Hom SN6276 2480.92 87.90 30.37 3.51 0.00 -36.45 -2.56 87.54 PK 3 0.00 116.20 31.60 PASS WILAN-2412b V 3 Hom SN6276 2480.17 100.20 30.37 3.51 0.00 -36.45 -2.56 87.54 PK 3 0.00 116.20 17.56 PASS WILAN-2412b V 3 Hom SN6276 2480.17 30.30 30.37 3.51 0.00 -36.45	WLAN-2412b	Н	3	Horn SN6276	2480.24	99.80		30.37	3.51	0.00	-36.45	-2.56	97.24	PK	3	0.00	116.20	18.96	PASS
WILAN-2412b V 3 Horn SN6276 2480.19 92.90 30.37 3.51 0.00 -36.45 -2.56 90.34 PK 3 0.00 116.20 25.86 PASS WILAN-2437b V 3 Horn SN6276 2480.20 94.70 30.37 3.51 0.00 -36.45 -2.56 89.74 PK 3 0.00 116.20 24.46 PASS WILAN-2412b V 3 Horn SN6276 2480.20 94.70 30.37 3.51 0.00 -36.45 -2.56 92.14 PK 3 0.00 116.20 24.46 PASS WILAN-2412b H 3 Horn SN6276 2419.19 92.20 30.28 3.49 0.00 -36.45 -2.56 99.14 PK 3 0.00 116.20 24.06 PASS WILAN-2412b H 3 Horn SN6276 2419.19 92.20 30.28 3.49 0.00 -36.51 -2.70 9.80 PK 3 0.00 116.20 26.80 PASS WILAN-2412b H 3 Horn SN6276 2437.94 92.80 30.30 3.51 0.00 -36.51 -2.70 9.80 PK 3 0.00 116.20 25.22 PASS WILAN-2412b V 3 Horn SN6276 2412.96 86.80 30.24 3.49 0.00 -36.51 -2.70 84.80 PK 3 0.00 116.20 32.20 PASS WILAN-2437b V 3 Horn SN6276 2412.96 86.80 30.34 3.52 0.00 -36.51 -2.70 84.80 PK 3 0.00 116.20 30.32 PASS WILAN-2412b V 3 Horn SN6276 2480.92 87.90 30.34 3.52 0.00 -36.45 -2.62 85.28 PK 3 0.00 116.20 30.32 PASS WILAN-2412g H 3 Horn SN6276 2480.17 100.20 30.37 3.51 0.00 -36.45 -2.62 85.28 PK 3 0.00 116.20 30.32 PASS WILAN-2412g H 3 Horn SN6276 2480.17 100.20 30.37 3.51 0.00 -36.45 -2.62 85.28 PK 3 0.00 116.20 31.80 PASS WILAN-2412g H 3 Horn SN6276 2480.17 100.20 30.37 3.51 0.00 -36.45 -2.62 85.84 PK 3 0.00 116.20	WLAN-2437b	Н	3	Horn SN6276	2480.23	100.50		30.37	3.51	0.00	-36.45	-2.56	97.94	PK	3	0.00	116.20	18.26	PASS
WILAN-2437b V 3 Horn SN6276 2480.20 92.30 30.37 3.51 0.00 -36.45 -2.56 89.74 PK 3 0.00 116.20 26.46 PASS	WLAN-2462b	Н	3	Horn SN6276	2480.21	101.20		30.37	3.51	0.00	-36.45	-2.56	98.64	PK	3	0.00	116.20	17.56	PASS
WILAN-2462b V 3 Hom SN6276 2480 20 94.70 30.37 3.51 0.00 -36.45 -2.56 92.14 PK 3 0.00 116.20 24.06 PASS	WLAN-2412b	V	3	Horn SN6276	2480.19	92.90		30.37	3.51	0.00	-36.45	-2.56	90.34	PK	3	0.00	116.20	25.86	PASS
WLAN-2412b H 3 Horn SN6276 2412.91 92.20 30.26 3.49 0.00 -36.55 -2.80 89.40 PK 3 0.00 116.20 26.80 PASS WLAN-2437b H 3 Horn SN6276 2437.94 92.80 30.30 3.51 0.00 -36.51 -2.70 90.10 PK 3 0.00 116.20 26.80 PASS WLAN-2432b H 3 Horn SN6276 2437.94 92.80 30.30 3.51 0.00 -36.51 -2.70 90.10 PK 3 0.00 116.20 26.10 PASS WLAN-2432b H 3 Horn SN6276 2437.94 92.80 30.30 3.51 0.00 -36.51 -2.70 90.10 PK 3 0.00 116.20 25.22 PASS WLAN-2432b V 3 Horn SN6276 2432.96 86.80 30.26 3.49 0.00 -36.51 -2.70 84.60 PK 3 0.00 116.20 32.20 PASS WLAN-2437b V 3 Horn SN6276 2437.90 87.30 30.30 3.51 0.00 -36.51 -2.70 84.60 PK 3 0.00 116.20 30.92 PASS WLAN-2462b V 3 Horn SN6276 2460.92 87.90 30.34 3.52 0.00 -36.51 -2.70 84.60 PK 3 0.00 116.20 30.92 PASS WLAN-2432b V 3 Horn SN6276 2480.12 100.10 30.37 3.51 0.00 -36.48 -2.26 85.28 PK 3 0.00 116.20 30.92 PASS WLAN-24379 H 3 Horn SN6276 2480.17 100.20 30.37 3.51 0.00 -36.48 -2.56 97.64 PK 3 0.00 116.20 18.66 PASS WLAN-2432g H 3 Horn SN6276 2480.17 100.20 30.37 3.51 0.00 -36.48 -2.56 98.64 PK 3 0.00 116.20 18.56 PASS WLAN-2432g H 3 Horn SN6276 2480.17 93.10 30.37 3.51 0.00 -36.48 -2.56 98.64 PK 3 0.00 116.20 24.26 PASS WLAN-2432g V 3 Horn SN6276 2480.17 93.10 30.37 3.51 0.00 -36.45 -2.56 98.64 PK 3 0.00 116.20 24.26 PASS WLAN-2432g V 3 Horn SN6276 2480.17 93.10 30.37 3.51 0.00 -36.45 -2.56 98.64 PK 3 0.00 116.20 25.66 PASS WLAN-2432g V 3 Horn SN6276 2480.17 93.10 30.37 3.51 0.00 -36.45 -2.56 98.64 PK 3 0.00 116.20 25.66 PASS WLAN-2432g V 3 Horn SN6276 2480.81 93.10 30.37 3.51 0.00 -36.55	WLAN-2437b	٧	3	Horn SN6276	2480.20	92.30		30.37	3.51	0.00	-36.45	-2.56	89.74	PK	3	0.00	116.20	26.46	PASS
WILAN-2412b H 3 Horn SN6276 2412 91 92.20 30.26 3.49 0.00 -36.55 -2.80 89.40 PK 3 0.00 116.20 26.80 PASS WILAN-2437b H 3 Horn SN6276 2437.94 92.80 30.30 3.51 0.00 -36.51 -2.70 90.10 PK 3 0.00 116.20 26.10 PASS WILAN-2462b H 3 Horn SN6276 2461.02 93.80 30.34 3.52 0.00 -36.48 -2.62 90.98 PK 3 0.00 116.20 25.22 PASS WILAN-2412b V 3 Horn SN6276 2412.96 86.80 30.26 3.49 0.00 -36.55 -2.80 84.00 PK 3 0.00 116.20 32.20 PASS WILAN-2437b V 3 Horn SN6276 245.93 87.30 30.30 3.51 0.00 -36.55 -2.80 84.00 PK 3 0.00 116.20 31.80 PASS WILAN-2437b V 3 Horn SN6276 2460.92 87.90 30.34 3.52 0.00 -36.48 -2.62 85.28 PK 3 0.00 116.20 30.92 PASS WILAN-2432g H 3 Horn SN6276 2480.23 100.10 30.37 3.51 0.00 -36.45 -2.56 97.54 PK 3 0.00 116.20 18.66 PASS WILAN-2432g H 3 Horn SN6276 2480.17 100.20 30.37 3.51 0.00 -36.45 -2.56 97.64 PK 3 0.00 116.20 17.56 PASS WILAN-2432g H 3 Horn SN6276 2480.20 94.50 30.37 3.51 0.00 -36.45 -2.56 97.64 PK 3 0.00 116.20 17.56 PASS WILAN-2432g V 3 Horn SN6276 2480.20 94.50 30.37 3.51 0.00 -36.45 -2.56 97.64 PK 3 0.00 116.20 25.66 PASS WILAN-2432g V 3 Horn SN6276 2480.21 93.10 30.37 3.51 0.00 -36.45 -2.56 97.64 PK 3 0.00 116.20 25.66 PASS WILAN-2432g V 3 Horn SN6276 2480.21 93.10 30.37 3.51 0.00 -36.45 -2.56 97.64 PK 3 0.00 116.20 25.66 PASS WILAN-2432g V 3 Horn SN6276 2480.21 93.10 30.37 3.51 0.00 -36.45 -2.56 97.64 PK 3 0.00 116.20 25.66 PASS WILAN-2432g V 3 Horn SN6276 2480.21 93.10 30.37 3.51 0.00 -36.45 -2.56 97.64 PK 3 0.00 116.20 25.66 PASS WILAN-2432g V 3 Horn SN6276 2480.21 93.10 30.37 3.51	WLAN-2462b	٧	3	Horn SN6276	2480.20	94.70		30.37	3.51	0.00	-36.45	-2.56	92.14	PK	3	0.00	116.20	24.06	PASS
WILAN-2437b						WLA	N M	ode g Ca	arrier F	ield Strengths	with BI	uetooth (o-Transm	itting					
WIAN-2462b H 3 Hom SN6276 2461.02 93.60 30.34 3.52 0.00 -36.48 2.62 90.98 PK 3 0.00 116.20 25.22 PASS	WLAN-2412b	Н	3	Horn SN6276	2412.91	92.20		30.26	3.49	0.00	-36.55	-2.80	89.40	PK	3	0.00	116.20	26.80	PASS
WILAN-2412b V 3 Hom SN6276 2412.96 86.80 30.26 3.49 0.00 -36.55 -2.80 84.00 PK 3 0.00 116.20 32.20 PASS	WLAN-2437b	Н	3	Horn SN6276	2437.94	92.80		30.30	3.51	0.00	-36.51	-2.70	90.10	PK	3	0.00	116.20	26.10	PASS
WILAN-2437b V 3 Horn SN6276 2437.90 87.30 30.30 3.51 0.00 -36.51 -2.70 84.60 PK 3 0.00 116.20 31.60 PASS WILAN-2462b V 3 Horn SN6276 2460.92 87.90 30.34 3.52 0.00 -36.48 -2.62 85.28 PK 3 0.00 116.20 30.92 PASS PASS	WLAN-2462b	Н	3	Horn SN6276	2461.02	93.60		30.34	3.52	0.00	-36.48	-2.62	90.98	PK	3	0.00	116.20	25.22	PASS
WILAN-2462b V 3 Horn SN6276 2460.92 87.90 30.34 3.52 0.00 -36.48 -2.62 85.28 PK 3 0.00 116.20 30.92 PASS	WLAN-2412b	٧	3	Horn SN6276	2412.96	86.80		30.26	3.49	0.00	-36.55	-2.80	84.00	PK	3	0.00	116.20	32.20	PASS
WILAN-2412g H 3 Horn SN6276 2480.23 100.10 30.37 3.51 0.00 -36.45 -2.56 97.54 PK 3 0.00 116.20 18.66 PASS	WLAN-2437b	٧	3	Horn SN6276	2437.90	87.30		30.30	3.51	0.00	-36.51	-2.70	84.60	PK	3	0.00	116.20	31.60	PASS
WILAN-2412g H 3 Horn SN6276 2480.23 100.10 30.37 3.51 0.00 -36.45 -2.56 97.54 PK 3 0.00 116.20 18.66 PASS	WLAN-2462b	٧	3	Horn SN6276	2460.92	87.90		30.34	3.52	0.00	-36.48	-2.62	85.28	PK	3	0.00	116.20	30.92	PASS
WLAN-2437g H 3 Horn SN6276 2480.17 100.20 30.37 3.51 0.00 -36.45 -2.56 97.64 PK 3 0.00 116.20 18.56 PASS WLAN-2462g H 3 Horn SN6276 2480.15 101.20 30.37 3.51 0.00 -36.45 -2.56 98.64 PK 3 0.00 116.20 17.56 PASS WLAN-2412g V 3 Horn SN6276 2480.20 94.50 30.37 3.51 0.00 -36.45 -2.56 91.94 PK 3 0.00 116.20 24.26 PASS WLAN-2437g V 3 Horn SN6276 2480.21 93.10 30.37 3.51 0.00 -36.45 -2.56 90.54 PK 3 0.00 116.20 25.66 PASS WLAN-2462g V 3 Horn SN6276 2480.21 93.10 30.37 3.51 0.00 -36.45 -2.56 90.54 PK 3 0.00 116.20 25.66 PASS WLAN-2462g V 3 Horn SN6276 2480.21 93.10 30.37 3.51 0.00 -36.45 -2.56 90.54 PK 3 0.00 116.20 25.66 PASS WLAN-2412g H 3 Horn SN6276 2414.68 91.90 30.26 3.49 0.00 -36.55 -2.79 89.11 PK 3 0.00 116.20 27.09 PASS WLAN-2412g H 3 Horn SN6276 2435.49 93.20 30.30 3.51 0.00 -36.51 -2.71 90.49 PK 3 0.00 116.20 25.71 PASS WLAN-2462g H 3 Horn SN6276 2461.85 93.70 30.34 3.52 0.00 -36.47 -2.62 91.08 PK 3 0.00 116.20 25.71 PASS WLAN-2412g V 3 Horn SN6276 2469.36 85.60 30.25 3.48 0.00 -36.55 -2.81 82.79 PK 3 0.00 116.20 33.41 PASS WLAN-2412g V 3 Horn SN6276 2499.36 85.60 30.25 3.48 0.00 -36.55 -2.81 82.79 PK 3 0.00 116.20 33.34 PASS WLAN-2412g V 3 Horn SN6276 2499.36 85.60 30.25 3.48 0.00 -36.55 -2.81 82.79 PK 3 0.00 116.20 33.34 PASS WLAN-2437g V 3 Horn SN6276 2499.36 85.60 30.25 3.48 0.00 -36.55 -2.81 82.79 PK 3 0.00 116.20 33.34 PASS WLAN-2437g V 3 Horn SN6276 2499.36 85.60 30.25 3.48 0.00 -36.55 -2.81 82.79 PK 3 0.00 116.20 33.34 PASS						Blue	toot	h Carrie	Field :	Strengths wit	h WLAN	Mode g (o-Transm	itting					
WLAN-2462g H 3 Horn SN6276 2480.15 101.20 30.37 3.51 0.00 -36.45 -2.56 98.64 PK 3 0.00 116.20 17.56 PASS WLAN-2412g V 3 Horn SN6276 2480.20 94.50 30.37 3.51 0.00 -36.45 -2.56 91.94 PK 3 0.00 116.20 24.26 PASS WLAN-2437g V 3 Horn SN6276 2480.21 93.10 30.37 3.51 0.00 -36.45 -2.56 90.54 PK 3 0.00 116.20 25.66 PASS WLAN-2462g V 3 Horn SN6276 2480.21 93.10 30.37 3.51 0.00 -36.45 -2.56 90.54 PK 3 0.00 116.20 25.66 PASS WLAN-2412g H 3 Horn SN6276 2414.68 91.90 30.26 3.49 0.00 -36.55 -2.79 89.11 PK	WLAN-2412g	Н	3	Horn SN6276	2480.23	100.10		30.37	3.51	0.00	-36.45	-2.56	97.54	PK	3	0.00	116.20	18.66	PASS
WLAN-2412g V 3 Horn SN6276 2480.20 94.50 30.37 3.51 0.00 -36.45 -2.56 91.94 PK 3 0.00 116.20 24.26 PASS WLAN-2437g V 3 Horn SN6276 2480.17 93.10 30.37 3.51 0.00 -36.45 -2.56 90.54 PK 3 0.00 116.20 25.66 PASS WLAN-2462g V 3 Horn SN6276 2480.21 93.10 30.37 3.51 0.00 -36.45 -2.56 90.54 PK 3 0.00 116.20 25.66 PASS WLAN-2412g H 3 Horn SN6276 2414.68 91.90 30.26 3.49 0.00 -36.55 -2.79 89.11 PK 3 0.00 116.20 27.09 PASS WLAN-2437g H 3 Horn SN6276 2435.49 93.20 30.30 35.1 0.00 -36.51 -2.71 90.49 PK<	WLAN-2437g	Н	3	Horn SN6276	2480.17	100.20		30.37	3.51	0.00	-36.45	-2.56	97.64	PK	3	0.00	116.20	18.56	PASS
WILAN-2437g V 3 Horn SN6276 2480.17 93.10 30.37 3.51 0.00 -36.45 -2.56 90.54 PK 3 0.00 116.20 25.66 PASS	WLAN-2462g	Н	3	Horn SN6276	2480.15	101.20		30.37	3.51	0.00	-36.45	-2.56	98.64	PK	3	0.00	116.20	17.56	PASS
WLAN-2462g V 3 Horn SN6276 2480.21 93.10 30.37 3.51 0.00 -36.45 -2.56 90.54 PK 3 0.00 116.20 25.66 PASS WLAN-2412g H 3 Horn SN6276 2414.68 91.90 30.26 3.49 0.00 -36.55 -2.79 89.11 PK 3 0.00 116.20 27.09 PASS WLAN-2437g H 3 Horn SN6276 2435.49 93.20 30.30 3.51 0.00 -36.51 -2.71 90.49 PK 3 0.00 116.20 25.71 PASS WLAN-2462g H 3 Horn SN6276 2461.85 93.70 30.34 3.52 0.00 -36.51 -2.71 90.49 PK 3 0.00 116.20 25.71 PASS WLAN-2462g H 3 Horn SN6276 2461.85 93.70 30.34 3.52 0.00 -36.57 -2.62 91.08 PK	WLAN-2412g	٧	3	Horn SN6276	2480.20	94.50		30.37	3.51	0.00	-36.45	-2.56	91.94	PK	3	0.00	116.20	24.26	PASS
WLAN Mode g Carrier Field Strengths with Bluetooth Co-Transmitting WLAN-2412g H 3 Horn SN6276 2414.68 91.90 30.26 3.49 0.00 -36.55 -2.79 89.11 PK 3 0.00 116.20 27.09 PASS WLAN-2437g H 3 Horn SN6276 2435.49 93.20 30.30 3.51 0.00 -36.51 -2.71 90.49 PK 3 0.00 116.20 25.71 PASS WLAN-2462g H 3 Horn SN6276 2461.85 93.70 30.34 3.52 0.00 -36.57 -2.62 91.08 PK 3 0.00 116.20 25.71 PASS WLAN-2412g V 3 Horn SN6276 2499.36 85.60 30.25 3.48 0.00 -36.55 -2.81 82.79 PK 3 0.00 116.20 33.41 PASS WLAN-2437g V 3 Horn SN6276 2439.33 86.50 30.30 3.51 0.0	WLAN-2437g	٧	3	Horn SN6276	2480.17	93.10		30.37	3.51	0.00	-36.45	-2.56	90.54	PK	3	0.00	116.20	25.66	PASS
WLAN-2412g H 3 Horn SN6276 2414.68 91.90 30.26 3.49 0.00 -36.55 -2.79 89.11 PK 3 0.00 116.20 27.09 PASS WLAN-2437g H 3 Horn SN6276 2435.49 93.20 30.30 3.51 0.00 -36.51 -2.71 90.49 PK 3 0.00 116.20 25.71 PASS WLAN-2462g H 3 Horn SN6276 2461.85 93.70 30.34 3.52 0.00 -36.47 -2.62 91.08 PK 3 0.00 116.20 25.71 PASS WLAN-2412g V 3 Horn SN6276 2499.36 85.60 30.25 3.48 0.00 -36.55 -2.81 82.79 PK 3 0.00 116.20 33.41 PASS WLAN-2437g V 3 Horn SN6276 2439.33 86.50 30.30 3.51 0.00 -36.51 -2.70 83.80 PK 3	WLAN-2462g	٧	3	Horn SN6276	2480.21	93.10		30.37	3.51	0.00	-36.45	-2.56	90.54	PK	3	0.00	116.20	25.66	PASS
WLAN-2437g H 3 Horn SN6276 2435.49 93.20 30.30 3.51 0.00 -36.51 -2.71 90.49 PK 3 0.00 116.20 25.71 PASS WLAN-2462g H 3 Horn SN6276 2461.85 93.70 30.34 3.52 0.00 -36.47 -2.62 91.08 PK 3 0.00 116.20 25.12 PASS WLAN-2412g V 3 Horn SN6276 2499.36 85.60 30.25 3.48 0.00 -36.55 -2.81 82.79 PK 3 0.00 116.20 33.41 PASS WLAN-2437g V 3 Horn SN6276 2499.33 86.50 30.30 3.51 0.00 -36.51 -2.70 83.80 PK 3 0.00 116.20 32.39 PASS						WLA	N M	ode g Ca	arrier F	ield Strengths	with BI	uetooth (Co-Transm	itting					
WLAN-2462g H 3 Horr SN6276 2461.85 93.70 30.34 3.52 0.00 -36.47 -2.62 91.08 PK 3 0.00 116.20 25.12 PASS WLAN-2412g V 3 Horr SN6276 2409.36 85.60 30.25 3.48 0.00 -36.55 -2.81 82.79 PK 3 0.00 116.20 33.41 PASS WLAN-2437g V 3 Horr SN6276 2439.33 86.50 30.30 3.51 0.00 -36.51 -2.70 83.80 PK 3 0.00 116.20 32.39 PASS	WLAN-2412g	Н	3	Horn SN6276	2414.68	91.90		30.26	3.49	0.00	-36.55	-2.79	89.11	PK	3	0.00	116.20	27.09	PASS
WLAN-2412g V 3 Horn SN6276 2409.36 85.60 30.25 3.48 0.00 -36.55 -2.81 82.79 PK 3 0.00 116.20 33.41 PASS WLAN-2437g V 3 Horn SN6276 2439.33 86.50 30.30 3.51 0.00 -36.51 -2.70 83.80 PK 3 0.00 116.20 32.39 PASS	WLAN-2437g	Н	3	Horn SN6276	2435.49	93.20		30.30	3.51	0.00	-36.51	-2.71	90.49	PK	3	0.00	116.20	25.71	PASS
WLAN-2437g V 3 Horn SN6276 2439.33 86.50 30.30 3.51 0.00 -36.51 -2.70 83.80 PK 3 0.00 116.20 32.39 PASS	WLAN-2462g	Н	3	Horn SN6276	2461.85	93.70		30.34	3.52	0.00	-36.47	-2.62	91.08	PK	3	0.00	116.20	25.12	PASS
	WLAN-2412g	V	3	Horn SN6276	2409.36	85.60		30.25	3.48	0.00	-36.55	-2.81	82.79	PK	3	0.00	116.20	33.41	PASS
WLAN-2462g V 3 Horn SN6276 2459.16 86.00 30.33 3.52 0.00 -36.48 -2.63 83.37 PK 3 0.00 116.20 32.82 PASS	WLAN-2437g	V	3	Horn SN6276	2439.33	86.50		30.30	3.51	0.00	-36.51	-2.70	83.80	PK	3	0.00	116.20	32.39	PASS
	WLAN-2462g	٧	3	Horn SN6276	2459.16	86.00		30.33	3.52	0.00	-36.48	-2.63	83.37	PK	3	0.00	116.20	32.82	PASS

Total CF = AF + CL + Other Field Strength = SA Level + Total CF

*Worst case Duty Cycle of 100% used



Test Report Serial No.:	022305KBC-T618	3-E15W/B	Issue 1.0				
Test Date(s):	o(s): 01Oct04 - 14Oct04						
Test Type(s):	FCC §15.247	IC RSS-2	210 Issue 5				
Lab Registration(s):	FCC #714830	IC Lab	File #3874				

				Company:		072	804KBC	-T543-	E15/V/B						Standard:		FCC15.209	9 / 15.247
Cell	to	h		Product:		ltror									Test Start I	Date:	21Sep04	
Testing and Ex	gineering Se	nices Lab				IX26	0+ with	Blueto	oth & WLAI	٧					Test End Da	ate:	120ct04	
							Blu	uetoot	h Channel	0 (2402 MHz	Lower	Band-Edg	je					
p q						5												
ZES	Polarity	auce	Rx Antenna	Frequency	SA Level	Flo	Dv 05	Bu CI	Other Rx	Duty Cycle	Total	Field	Detector	Limit	Limit Distance	Calculated	Margin	Pass/Fai
WLAN Tranmi	Pol	Distance	IXX Antenna	rrequency	SA LEVEI	oise	IXX AI	IXX CL	Olifier IXX	Correction	Rx CF	Strength	Defector	Distance	Correction	Limit	Iviai gii i	rass/i ai
WLAN Co-Tranmitting Channel Mode b	ш					z												
		m	Have CNCOTC	MHz	dBuV		dB/m	dB	dB	dB	dB/m	dBuV/m	(PK/QP/AV)	m 2.00	dB	dBuV/m	dB	DACC
2412 2412	H	3	Horn SN6276 Horn SN6276	2400.00 2400.00	41.80 32.10		30.24	3.48	-20.38 -20.38	-20.00 -20.00	-6.67 -6.67	35.13 25.43	AV AV	3.00	0.00	88.31 83.21	53.18 57.78	PASS PASS
2462 2462	H	3	Horn SN6276 Horn SN6276	2400.00 2400.00	32.50 30.20		30.24	3.48	-20.38 -20.38	-20.00 -20.00	-6.67 -6.67	25.83 23.53	AV AV	3.00	0.00	88.31 83.21	62.48 59.68	PASS PASS
			-edge measu			w	30.24	3.40	-20.50	-20.00	-0.07	25.55	~ ~ ~	3.00	0.00	03.21	35.00	FASS
Note. Occi	apieu	Danu	-euge measi	ilea with 10	O KHZ KB	**				70 (0 400 5411								
-							BIU	ietoot	n Channei	79 (2480 MH:	z) Upper	Band-Edg	je					
de b	>	9				Ö									Limit			
WLAN Tranmit nnel Mo	Polarity	Distance	Rx Antenna	Frequency	SA Level	seFI	Rx AF	Rx CL	Other Rx	Duty Cycle Correction	Total Rx CF	Field Strength	Detector	Limit Distance	Distance	Calculated Limit	Margin	Pass/Fai
WLAN Co-Tranmitting Channel Mode b	۵	Dis				Nois				Correction	TO CI	Sirengin		Distance	Correction	Lillin		
రిక్	Н	m		MHz	dBu∀	Н	dB/m	dB	dB	dB	dB/m	dBu∀/m	(PK/QP/AV)	m	dB	dBuV/m	dB	
2412	Н	3	Horn SN6276	2483.50	45.20	Г	30.37	3.51	-20.26	-20.00	-6.37	38.83	AV	3.00	0.00	53.98	15.15	PASS
2412	٧	3	Horn SN6276	2483.50	41.20		30.37	3.51	-20.26	-20.00	-6.37	34.83	AV	3.00	0.00	53.98	19.15	PASS
2462	Н	3	Horn SN6276	2483.50	45.90		30.37	3.51	-20.26	-20.00	-6.37	39.53	AV	3.00	0.00	53.98	14.45	PASS
2462	V	3	Horn SN6276	2483.50	40.80		30.37	3.51	-20.26	-20.00	-6.37	34.43	AV	3.00	0.00	53.98	19.55	PASS
Note: Rest	ricted	d Ban	d-edge meas	ured with 1	MHz RBV	V												
							١	WLAN	Channel 1	(2412 MHz) L	ower B	and-Edge						
ē						'n												
e ij e	Ę.	auce	D 0 - 4	F	Calana	Flo	D 0.E	D. CI	OH D	Duty Cycle	Total	Field	Datasta	Limit	Limit	Calculated	Managia	D
Bluetooth Co-Tranmitting Channel	Polarity	Distance	Rx Antenna	Frequency	SA Level	Noise	Rx AF	Rx CL	Other Rx	Correction	Rx CF	Strength	Detector	Distance	Distance Correction	Limit	Margin	Pass/Fai
声とっ	ш					z												
2402	Н	m 3	Horn SN6276	MHz 2400.00	dBuV 41.80		dB/m 30.24	dB 3.48	-20.38	dB -20.00	dB/m -6.67	dBuV/m 35.13	(PK/QP/AV) AV	m 3.00	0.00	dBu∀/m 88.31	dB 53.18	PASS
2402	V	3	Horn SN6276	2400.00	32.10		30.24	3.48	-20.38	-20.00	-6.67	25.43	AV	3.00	0.00	83.21	57.78	PASS
2480	Н	3	Horn SN6276	2400.00	40.50		30.24	3.48	-20.38	-20.00	-6.67	33.83	AV	3.00	0.00	88.31	54.48	PASS
2480		3	Horn SN6276	2400.00	34.70		30.24	3.48	-20.38	-20.00	-6.67	28.03	AV	3.00	0.00	83.21	55.18	PASS
			-edge measu	l .		w			20.00	20.00	0.0.	20.00		0.00	0.00	00.21	00.10	
	•						v	VLAN :	Channel 11	(2462 MHz)	Upper B	and-Edge						
ē						5												
e i e	ığ.	auce	Rx Antenna	F	SA Level	F	D., 05	Bu CI	Other Rx	Duty Cycle	Total	Field	Detector	Limit	Limit Distance	Calculated	Manain	Pass/Fai
Bluetooth -Tranmitt Channel	Polarity	Distance	IXX AHLEHHA	Frequency	SA LEVEI	oise F	NX AF	IXX CL	Other IX	Correction	Rx CF	Strength	Defector	Distance	Correction	Limit	Margin	rass/rai
Bluetooth Co-Tranmitting Channel						Z												
2402	Н	m 3	Horn SN6276	MHz 2483.50	dBu∀ 49.90		dB/m 30.37	dB 3.51	-20.26	dB -20.00	dB/m -6.37	dBu∀/m 43.53	(PK/QP/AV) AV	m 3.00	0.00	dBuV/m 53.98	dB 10.45	PASS
2402	\ V	3	Horn SN6276	2483.50	47.50		30.37	3.51	-20.26	-20.00	-6.37	41.13	AV	3.00	0.00	53.98	12.85	PASS
2480	Н	3	Horn SN6276	2483.50	45.90	H	30.37	3.51	-20.26	-20.00	-6.37	39.53	AV	3.00	0.00	53.98	14.45	PASS
2480	t		Horn SN6276				30.37			-20.00	-6.37	34.43	AV	3.00	0.00	53.98	19.55	PASS
Note: Rest			d-edge meas			v		1	1 -2.20			20		2.55	1 2.55			,00
Formulae:	ID)	04	na Faster O'E	V. Oak!- 5	atau (-IP)			4 /^	anlific - O	in Filters!	4-3 1	4DV						
			na Factor (dB) m) = SA Read					tor (Aľ	npillier Ga	m, Filler LOS	5, e(C) ((10)						
						•		og(d1/	'd2) for f >3	0 MHz; whe	re d1 is	the meas	surement dista	ince and d	2 is the publ	lished limit (distance	
Limit (dBuʻ	V/m) =	= Pub	lished Limit (dBuV/m) + L	imit Dista													
			BuV/m) - Fiel															
			n (dB) = 20 * li			ol 0:		100										
Duty Cycle Note:	ratio	= max	dmum time o	rı in any 100	ms perio	ia (ii	1 mS) /	100 n	ns									
	ndo =	10 m	S in each 10	seconds														
DUT duty o																		

Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260PR	ROA580BT					
IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth													
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Test Report Serial No.:	022305KBC-T618	3-E15W/B	Issue 1.0					
Test Date(s):	. ,							
Test Type(s):	FCC §15.247	IC RSS-2	210 Issue 5					
Lab Registration(s):	FCC #714830	IC Lab	File #3874					

	(Zell Kader, are	Itech Erginnerig Berton Lie	Company: Product:		tror				Bluetooth ar	nd WLAN	l			Standard: Test Start I Test End D	Date:	FCC15.20 04Oct04 12Oct04)9
					Bluetooth	CH ((2402	MHz) (o-trans	mitting wit	h WLAN	Spurious	Emissions					
Channel	Polarity	Distance	Rx Antenna	Frequency	SA Level	Noise Floor	Rx AF	Rx CL	Other Rx	*Duty Cycle Correction	Total Rx CF	Field Strength	Detector	Limit Distance	Limit Distance Correction	Calculated Limit	Margin	Pass/Fa
		m		MHz	dBu∀		dB/m	dB	dB	dB	dB/m	dBuV/m	(PK/QP/AV)	m	dB	dBu∀/m	dΒ	
WLAN-2412b	Н	3	Horn SN6276	2392.98	62.00		30.23	3.47	-20.40	-20.00	-6.70	55.30	PK	3.00	0.00	73.98	18.68	PASS
WLAN-2412b	Н	3	Horn SN6276	2392.98	54.00		30.23	3.47	-20.40	-20.00	-6.70	47.30	AV	3.00	0.00	53.98	6.68	PASS
WLAN-2412b	Н	3	Horn SN6276	2487.88	46.90		30.38	3.51	-20.25	-20.00	-6.36	40.54	AV	3.00	0.00	53.98	13.43	PASS
WLAN-2437b	Н	3	Horn SN6276	2368.51	51.50		30.19	3.45	-20.43	-20.00	-6.80	44.70	PK	3.00	0.00	53.98	9.27	PASS
WLAN-2437b	Н	3	Horn SN6276	2486.98	46.60		30.38	3.51	-20.25	-20.00	-6.36	40.24	AV	3.00	0.00	53.98	13.74	PASS
WLAN-2462b	Н	3	Horn SN6276	2341.70	50.00		30.15	3.42	-20.47	-20.00	-6.91	43.09	PK	3.00	0.00	53.98	10.88	PASS
WLAN-2462b	Н	3	Horn SN6276	2521.67	50.80		30.47	3.54	-20.20	-20.00	-6.19	44.61	PK	3.00	0.00	53.98	9.37	PASS
WLAN-2412b	٧	3	Horn SN6276	2392.58	63.90		30.23	3.47	-20.40	-20.00	-6.70	57.20	PK	3.00	0.00	73.98	16.78	PASS
WLAN-2412b	٧	3	Horn SN6276	2486.03	46.60		30.38	3.51	-20.25	-20.00	-6.36	40.24	AV	3.00	0.00	53.98	13.74	PASS
WLAN-2437b	٧	3	Horn SN6276	2363.86	48.30		30.18	3.44	-20.44	-20.00	-6.81	41.49	PK	3.00	0.00	53.98	12.49	PASS
WLAN-2437b	٧	3	Horn SN6276	2487.22	46.40		30.38	3.51	-20.25	-20.00	-6.36	40.04	AV	3.00	0.00	53.98	13.94	PASS
WLAN-2462b	٧	3	Horn SN6276	2346.38	48.10		30.15	3.43	-20.47	-20.00	-6.89	41.21	PK	3.00	0.00	53.98	12.77	PASS
WLAN-2462b	٧	3	Horn SN6276	2521.88	48.20		30.47	3.54	-20.20	-20.00	-6.19	42.01	PK	3.00	0.00	53.98	11.97	PASS
WLAN-2412g	Н	3	Horn SN6276	2392.00	54.80		30.23	3.47	-20.40	-20.00	-6.70	48.10	PK	3.00	0.00	53.98	5.88	PASS
WLAN-2412g	Н	3	Horn SN6276	2485.07	47.00		30.38	3.51	-20.25	-20.00	-6.36	40.64	AV	3.00	0.00	53.98	13.34	PASS
WLAN-2437g	Н	3	Horn SN6276	2366.21	51.50		30.19	3.45	-20.44	-20.00	-6.80	44.70	PK	3.00	0.00	53.98	9.28	PASS
WLAN-2437g	Н	3	Horn SN6276	2483.63	48.30		30.37	3.51	-20.26	-20.00	-6.37	41.93	PK	3.00	0.00	53.98	12.05	PASS
VVLAN-2462g	Н	3	Horn SN6276	2344.01	48.50		30.15	3.42	-20.47	-20.00	-6.90	41.60	PK	3.00	0.00	53.98	12.38	PASS
WLAN-2462g	Н	3	Horn SN6276	2524.53	48.10		30.48	3.54	-20.19	-20.00	-6.17	41.93	PK	3.00	0.00	53.98	12.05	PASS
WLAN-2412g	٧	3	Horn SN6276	2392.00	50.70		30.23	3.47	-20.40	-20.00	-6.70	44.00	PK	3.00	0.00	53.98	9.98	PASS
WLAN-2412g	٧	3	Horn SN6276	2488.09	46.60		30.38	3.51	-20.25	-20.00	-6.35	40.25	AV	3.00	0.00	53.98	13.73	PASS
WLAN-2437g	٧	3	Horn SN6276	2368.73	51.80		30.19	3.45	-20.43	-20.00	-6.79	45.01	PK	3.00	0.00	53.98	8.97	PASS
WLAN-2437g	٧	3	Horn SN6276	2486.30	47.10		30.38	3.51	-20.25	-20.00	-6.36	40.74	PK	3.00	0.00	53.98	13.24	PASS
WLAN-2462g	٧	3	Horn SN6276	2340.04	47.10		30.14	3.42	-20.48	-20.00	-6.91	40.19	PK	3.00	0.00	53.98	13.79	PASS
WLAN-2462g	٧	3	Horn SN6276	2522.40	47.60		30.47	3.54	-20.20	-20.00	-6.19	41.41	PK	3.00	0.00	53.98	12.57	PASS
	Form		AF + CL + Other														-	
			ar + CL + Olner ath = SA Level +															
			Correction (dB		tuty cycle r	atio*)											_
			ratio = maximun)/100	mS									
	ΙŃ	-																
	*DUT	duty o	cyle = 10 mS in	each 10 seco	nds													

^{*}The frequency points reported describe the highest local emission measured and are used to describe the measured intermodulation product or band-edge of interest. No out-of-band emissions were measured above the levels noted.

Where there is acceptable margin between the peak emission reported and the average limit stated, the average limit is referenced. Where the average limit is exceeded by the peak emission or the margin unacceptable, the peak limit is referenced and an average measurement made and referenced to the average limit.

Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260PROA580BT						
IX260+ Rug	IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth												
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Test Report Serial No.:	022305KBC-T618	3-E15W/B	Issue 1.0				
Test Date(s):	e(s): 01Oct04 - 14Oct04						
Test Type(s):	FCC §15.247	IC RSS-2	210 Issue 5				
Lab Registration(s):	FCC #714830	IC Lab	File #3874				

	1	? ₀	ltech	Company: Product:		072	804KBC	-T543-I	E15/V/B						Standard: Test Start I	Date:	FCC15.20 04Oct04	9
		Teating and	Engineering Services Lab			_		Co-Tra	ansmitting	: g Bluetooth an	d WLAN				Test End Da	ate:	12Oct04	
						21	ta atla C	U 20 /2	444 BAU	-\ t	-i44i	.:45 M/I A1						
					<u> </u>	siue	tooth C	.н зэ (2	441 MH	z) co-transn	nitting v	VICH WLAI						
Channel	Polarity	Distance	Rx Antenna	Frequency	SA Level	Noise Floor	Rx AF	Rx CL	Other Rx	*Duty Cycle Correction	Total Rx CF	Field Strength	Detector	Limit Distance	Limit Distance Correction	Calculated Limit	Margin	Pass/Fa
		m		MHz	dBu∀		dB/m	dB	dB	dB	dB/m		(PK/QP/AV)	m	dΒ	dBuV/m	dB	
WLAN-2412b	Н	3	Horn SN6276	2382.12	51.30		30.21	3.46	-20.41	-20.00	-6.74	44.56	PK	3.00	0.00	53.98	9.42	PASS
WLAN-2412b	Н	3	Horn SN6276	2484.24	50.60		30.37	3.51	-20.26	-20.00	-6.37	44.23	PK	3.00	0.00	53.98	9.75	PASS
WLAN-2437b	Н	3	Horn SN6276	2387.35	47.60		30.22	3.47	-20.40	-20.00	-6.72	40.88	PK	3.00	0.00	53.98	13.10	PASS
WLAN-2437b	Н	3	Horn SN6276	2487.66	46.80	_	30.38	3.51	-20.25	-20.00	-6.36	40.44	AV	3.00	0.00	53.98	13.54	PASS
WLAN-2462b	Н	3	Horn SN6276	2386.74	46.50		30.22	3.46	-20.41	-20.00	-6.72	39.78	PK	3.00	0.00	53.98	14.20	PASS
WLAN-2462b	Н	3	Horn SN6276	2487.68	52.00		30.38	3.51	-20.25	-20.00	-6.36	45.64	PK	3.00	0.00	53.98	8.34	PASS
WLAN-2412b		3	Horn SN6276	2383.01	47.00		30.21	3.46	-20.41	-20.00	-6.74	40.26	PK	3.00	0.00	53.98	13.72	PASS
WLAN-2412b	V	3	Horn SN6276	2486.75	47.90		30.38	3.51	-20.25	-20.00	-6.36	41.54	PK	3.00	0.00	53.98	12.44	PASS
WLAN-2437b WLAN-2437b	V V	3	Horn SN6276 Horn SN6276	2386.67 2486.29	46.70 46.50		30.22	3.46	-20.41 -20.25	-20.00 -20.00	-6.72 -6.36	39.98 40.14	PK PK	3.00	0.00	53.98 53.98	14.00 13.84	PASS PASS
WLAN-24576 WLAN-2462b	V	3	Horn SN6276	2386.39	47.70		30.30	3.51	-20.25	-20.00	-6.72	40.14	PK PK	3.00	0.00	53.98	13.04	PASS
WLAN-2462b	T _V	3	Horn SN6276	2486.67	51.40		30.38	3.51	-20.41	-20.00	-6.72	45.04	PK PK	3.00	0.00	53.98	8.94	PASS
WLAN-24020	H	3	Horn SN6276	2383.97	52.40		30.21	3.46	-20.23	-20.00	-6.73	45.67	PK	3.00	0.00	53.98	8.31	PASS
WLAN-2412a	Н.	3	Horn SN6276	2484.08	46.60		30.37	3.51	-20.26	-20.00	-6.37	40.23	PK	3.00	0.00	53.98	13.75	PASS
WLAN-2437g	Н	3	Horn SN6276	2388.01	46.70		30.22	3.47	-20.40	-20.00	-6.72	39.98	PK	3.00	0.00	53.98	14.00	PASS
WLAN-2437q	Н	3	Horn SN6276	2488.43	47.10		30.38	3.51	-20.25	-20.00	-6.35	40.75	PK	3.00	0.00	53.98	13.23	PASS
WLAN-2462g	Н	3	Horn SN6276	2387.86	46.90		30.22	3.47	-20.40	-20.00	-6.72	40.18	PK	3.00	0.00	53.98	13.80	PASS
WLAN-2462g	Н	3	Horn SN6276	2484.01	56.50		30.37	3.51	-20.26	-20.00	-6.37	50.13	PK	3.00	0.00	53.98	3.85	PASS
WLAN-2412g	V	3	Horn SN6276	2387.50	48.90		30.22	3.47	-20.40	-20.00	-6.72	42.18	PK	3.00	0.00	53.98	11.80	PASS
WLAN-2412g	V	3	Horn SN6276	2485.54	47.40		30.38	3.51	-20.25	-20.00	-6.36	41.04	PK	3.00	0.00	53.98	12.94	PASS
WLAN-2437g	٧	3	Horn SN6276	2387.78	46.70		30.22	3.47	-20.40	-20.00	-6.72	39.98	PK	3.00	0.00	53.98	14.00	PASS
WLAN-2437g	٧	3	Horn SN6276	2483.72	47.10		30.37	3.51	-20.26	-20.00	-6.37	40.73	PK	3.00	0.00	53.98	13.25	PASS
WLAN-2462g	V	3	Horn SN6276	2389.18	46.50		30.22	3.47	-20.40	-20.00	-6.71	39.79	PK	3.00	0.00	53.98	14.19	PASS
WLAN-2462g	٧	3	Horn SN6276	2483.00	52.10		30.37	3.51	-20.26	-20.00	-6.37	45.73	PK	3.00	0.00	53.98	8.25	PASS
	Form	ulae:																
			AF + CL + Other															
			gth = SA Level +															
			Correction (dB						L									
	Duty	Cycle	ratio = maximur	n time on in a	ny 100 mS∣ ∣	perio	od (in m9	s) /100 	mS									
	*DLIT	duty s	cyle = 10 mS in	each 10 sec	nnde													
	001	auty t	- 10 m3 m	cacii io sect	Ji ido													

*The frequency points reported describe the highest local emission measured and are used to describe the measured intermodulation product or band-edge of interest. No out-of-band emissions were measured above the levels noted.

Where there is acceptable margin between the peak emission reported and the average limit stated, the average limit is referenced. Where the average limit is exceeded by the peak emission or the margin unacceptable, the peak limit is referenced and an average measurement made and referenced to the average limit.

Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260PROA580BT				
IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth											
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Test Report Serial No.:	022305KBC-T618	3-E15W/B	Issue 1.0					
Test Date(s):	. ,							
Test Type(s):	FCC §15.247	IC RSS-2	210 Issue 5					
Lab Registration(s):	FCC #714830	IC Lab	File #3874					

D.9.7. Spurious Field Strength @ Specified Distance (High Bluetooth Channel)

Celltech

Product:

072804KBC-T543-E15W/B

IX260+ with Co-Transmitting Bluetooth and WLAN

Standard:

FCC15.209

Test Start Date: 04Oct04 Test End Date: 12Oct04

						ВІ	uetooth	CH 79	(2480 MHz) c	o-transm	nitting wit	h WLAN						
Channel	Polarity	Distance	Rx Antenna	Frequency	SA Level	Noise Floor	Rx AF	Rx CL	*Duty Cycle Correction	Other Rx	Total Rx CF	Field Strength	Detector	Limit Distance	Limit Distance Correction	Calculated Limit	Margin	Pass/Fail
		m		MHz	dBuV		dB/m	dB	dB	dB	dB/m	dBuV/m	(PK/QP/AV)	m	dB	dBuV/m	dB	
WLAN-2412b	Н	3	Horn SN6276	2341.14	46.90		30.15	3.42	-20.00	-20.48	-6.91	39.99	PK	3.00	0.00	53.98	13.99	PASS
WLAN-2412b	Н	3	Horn SN6276	2552.78	47.50		30.57	3.57	-20.00	-20.15	-6.01	41.49	PK	3.00	0.00	53.98	12.49	PASS
WLAN-2437b	Н	3	Horn SN6276	2391.30	50.50		30.23	3.47	-20.00	-20.40	-6.70	43.80	PK	3.00	0.00	53.98	10.18	PASS
WLAN-2437b	Н	3	Horn SN6276	2524.03	54.30		30.48	3.54	-20.00	-20.19	-6.18	48.12	AV	3.00	0.00	53.98	5.86	PASS
WLAN-2462b	Н	3	Horn SN6276	2392.79	47.10		30.23	3.47	-20.00	-20.40	-6.70	40.40	PK	3.00	0.00	53.98	13.58	PASS
WLAN-2462b	Н	3	Horn SN6276	2499.35	55.00		30.40	3.51	-20.00	-20.23	-6.32	48.68	PK	3.00	0.00	53.98	5.30	PASS
WLAN-2412b	٧	3	Horn SN6276	2339.57	47.20		30.14	3.42	-20.00	-20.48	-6.91	40.29	PK	3.00	0.00	53.98	13.69	PASS
WLAN-2412b	٧	3	Horn SN6276	2545.68	47.50		30.55	3.57	-20.00	-20.16	-6.05	41.45	PK	3.00	0.00	53.98	12.53	PASS
WLAN-2437b	V	3	Horn SN6276	2393.05	51.00		30.23	3.47	-20.00	-20.40	-6.70	44.30	PK	3.00	0.00	53.98	9.68	PASS
WLAN-2437b	V	3	Horn SN6276	2524.87	52.90		30.48	3.54	-20.00	-20.19	-6.17	46.73	PK	3.00	0.00	53.98	7.25	PASS
WLAN-2462b	V	3	Horn SN6276	2387.47	46.80		30.22	3.47	-20.00	-20.40	-6.72	40.08	PK	3.00	0.00	53.98	13.90	PASS
WLAN-2462b	V	3	Horn SN6276	2499.63	53.20		30.40	3.51	-20.00	-20.23	-6.32	46.88	PK	3.00	0.00	53.98	7.10	PASS
WLAN-2412g	Н	3	Horn SN6276	2346.91	46.90		30.16	3.43	-20.00	-20.47	-6.88	40.02	PK	3.00	0.00	53.98	13.96	PASS
WLAN-2412g	Н	3	Horn SN6276	2546.47	51.40		30.55	3.57	-20.00	-20.16	-6.04	45.36	PK	3.00	0.00	53.98	8.62	PASS
WLAN-2437g	Н	3	Horn SN6276	2391.37	50.90		30.23	3.47	-20.00	-20.40	-6.70	44.20	PK	3.00	0.00	53.98	9.78	PASS
WLAN-2437g	Н	3	Horn SN6276	2523.57	52.80		30.48	3.54	-20.00	-20.19	-6.18	46.62	PK	3.00	0.00	53.98	7.36	PASS
WLAN-2462g	Н	3	Horn SN6276	2388.64	46.80		30.22	3.47	-20.00	-20.40	-6.71	40.09	PK	3.00	0.00	53.98	13.89	PASS
WLAN-2462g	Н	3	Horn SN6276	2500.64	54.90		30.40	3.51	-20.00	-20.23	-6.31	48.59	PK	3.00	0.00	53.98	5.39	PASS
WLAN-2412g	٧	3	Horn SN6276	2345.01	46.90		30.15	3.43	-20.00	-20.47	-6.89	40.01	PK	3.00	0.00	53.98	13.97	PASS
WLAN-2412g	V	3	Horn SN6276	2546.24	49.00		30.55	3.57	-20.00	-20.16	-6.04	42.96	PK	3.00	0.00	53.98	11.02	PASS
WLAN-2437g	٧	3	Horn SN6276	2390.59	51.60		30.22	3.47	-20.00	-20.40	-6.71	44.89	PK	3.00	0.00	53.98	9.09	PASS
WLAN-2437g	٧	3	Horn SN6276	2525.62	51.70		30.48	3.54	-20.00	-20.19	-6.17	45.53	PK	3.00	0.00	53.98	8.45	PASS
WLAN-2462g	V	3	Horn SN6276	2386.94	46.90		30.22	3.46	-20.00	-20.40	-6.72	40.18	PK	3.00	0.00	53.98	13.80	PASS
WLAN-2462g	٧	3	Horn SN6276	2500.28	51.50		30.40	3.51	-20.00	-20.23	-6.32	45.18	PK	3.00	0.00	53.98	8.80	PASS

Formulae: Total CF = AF + CL + Other

Field Strength = SA Level + Total CF

Duty Cycle Correction (dB) = 20 * log (duty cycle ratio*)

Duty Cycle ratio = maximum time on in any 100 mS period (in mS) / 100 mS

*DUT duty cyle = 10 mS in each 10 seconds

*The frequency points reported describe the highest local emission measured and are used to describe the measured intermodulation product or band-edge of interest. No out-of-band emissions were measured above the levels noted.

Where there is acceptable margin between the peak emission reported and the average limit stated, the average limit is referenced. Where the average limit is exceeded by the peak emission or the margin unacceptable, the peak limit is referenced and an average measurement made and referenced to the average limit.



Test Report Serial No.:	022305KBC-T618-E15W/B Issue 1		
Test Date(s):	01Oct04 - 14Oct04		
Test Type(s):	FCC §15.247 IC RSS-210 Issue 5		
Lab Registration(s):	FCC #714830	IC Lab	File #3874

D.10. PASS/FAIL

In reference to the results outlined in D.9, the DUT passes the requirements as stated in the reference standards as follows: FCC 15.205 (a) (b) and 15.209 (a): No emissions were measured within the restricted bands as outlined in 15.205 that exceeded the limits stated in 15.209.

D.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.

Russell Pipe

Senior Compliance Technologist

Pural W. Pupe

Celltech Labs Inc.

14Oct04

Date



Test Report Serial No.:	022305KBC-T618-E15W/B Issue 1		
Test Date(s):	01Oct04 - 14Oct04		
Test Type(s):	FCC §15.247 IC RSS-210 Issue		
Lab Registration(s):	FCC #714830	IC Lab	File #3874

Appendix E - Maximum Permissible Exposure Calculation

E.1. REFERENCES	
Normative Reference Standard	FCC CFR 47§1.1310 IEEE Std C95.1-1999
Procedure Reference	FCC CFR 47§2.1091

E.2. LIMITS	
FCC CFR 47§1.1310 Table 1(b)	1.0 mW/cm ²

E.3. ENVIRONMENTAL CONDITIONS		
Temperature	na	
Humidity	na	
Barometric Pressure	na	

E.4. EQUIPMENT LIST							
ASSET NUMBER	ASSET NUMBER MANUFACTURER MODEL DESCRIPTION LAST CAL CAL DUE						
na							

E.5. MEASUREMENT EQUIPMENT SETUP				
MEASUREMENT EQUIPMENT CONNECTIONS	The results described herein were determined by the calculation, so no measurement equipment was used.			
MEASUREMENT EQUIPMENT SETTINGS	na			

E.6. SETUP PHOTOS	
na	

E.7. SETUP DRAWINGS	
na	

E.8. DUT OPERATING DESCRIPTION

na (the power levels calculated are equivalent to those described in the referenced single-transmit test reports)

Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260PROA580BT
IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth							
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Test Report Serial No.:	022305KBC-T618-E15W/B Issue 1.		
Test Date(s):	01Oct04 - 14Oct04		
Test Type(s):	FCC §15.247 IC RSS-210 Issue 5		
Lab Registration(s):	FCC #714830	IC Lab	File #3874

E.9. TEST RESULTS

E.9.1. Single-Transmit Calculations:

RangeStar Internal Antenna (WLAN 802.11b mode):

Source-Based Time-Averaged Power at Antenna Input Terminal:

Tx Frequency: Antenna gain:

(MHz) (dBm) (dBi)

1.00 (mW/cm^2) 55,9758 (mW) 2.82 (numeric)

3.54 (cm)

S (mw/cm^2) at 20cm = 0.031351575

RangeStar Internal Antenna (Bluetooth):

Tx Frequency: RF Output Power at Antenna Input Terminal:

(MHz) (dBm)

Antenna gain: (dBi)

1.00 (mW/cm^2) 36.3915 (mW) 2.82 (numeric)

2.86 (cm)

S at 20cm:

0.02038259 (mW/cm^2)

Formulae:

 $S = \frac{PG}{4\pi R^2}$

where: S = Power Density Limit

P = Power Applied to the Antenna

G = Numeric Antenna Gain R = Distance from Antenna

Results:

Mode	Power Density Limit	RF Conducted Output Power	Antenna Gain	MPE Distance	Power Density at 20 cm
	mW/cm ²	dBm	dBi	cm	mW/cm ²
WLAN (802.11b)	1.0	17.48	4.5	3.54	0.031
Bluetooth (CH39)	1.0	15.61	4.5	2.86	0.020

Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260PROA580BT
IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth							(ITRONIX)
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Test Report Serial No.:	022305KBC-T618	Issue 1.0	
Test Date(s):	01Oct04 - 14Oct04		
Test Type(s):	FCC §15.247	IC RSS-2	210 Issue 5
Lab Registration(s):	FCC #714830	IC Lab	File #3874

E.9.2. Co-Transmit MPE Calculations

Radio	20 cm Power Density	Ratio	Limit
	mW/cm ²	(S/Limit)	mW/cm ²
WLAN	0.031	0.031	1
Bluetooth	0.020	0.020	1
	Sum =	0.051	1

E.10. PASS/FAIL

In reference to the results outlined in D.9 the DUT passes the requirements as stated in the reference standards as follows: 1) The DUT must comply with the minimum spacing requirement of 20 cm to ensure an exposure of not more than 1 mW/cm².

E.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.

Duane M. Friesen, C.E.T.

EMC Manager Celltech Labs Inc.

09Oct04

Date



Test Report Serial No.:	022305KBC-T618	Issue 1.0		
Test Date(s):	01Oct04 - 14Oct04			
Test Type(s):	FCC §15.247	IC RSS-2	210 Issue 5	
Lab Registration(s):	FCC #714830	IC Lab	File #3874	

END OF DOCUMENT

Applicant:	Itronix Corporation	Model:	IX260PROA580BT	IC ID:	1943A-IX260Pf	FCC ID:	KBCIX260PROA580BT
IX260+ Rugged Laptop PC with internal Intel Pro 2200BG 802.11b/g WLAN and Cirronet BT2022 Bluetooth							
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