

DECLARATION OF COMPLIANCE FCC PARTS 24(E) & 22(H) EMC MEASUREMENTS

<p><u>Test Lab</u></p> <p>CELLTECH LABS INC. Testing and Engineering Services 1955 Moss Court Kelowna, B.C. Canada V1Y 9L3 Phone: 250-448-7047 Fax: 250-448-7046 e-mail: info@celltechlabs.com web site: www.celltechlabs.com</p>	<p><u>Applicant Information</u></p> <p>ITRONIX CORPORATION 801 South Stevens Street Spokane, WA 99204</p>																												
<table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">FCC Rule Part(s):</td> <td>47 CFR §24(E), §22(H), §2</td> </tr> <tr> <td>IC Rule Part(s):</td> <td>RSS-133 Issue 2, RSS-129 Issue 2</td> </tr> <tr> <td>Test Procedure(s):</td> <td>FCC 47 CFR §24(E), §22(H), §2; ANSI TIA/EIA-603-A-2001 IC RSS-133 Issue 2, RSS-129 Issue 2</td> </tr> <tr> <td>FCC Device Classification:</td> <td>PCS Licensed Transmitter (PCB)</td> </tr> <tr> <td>IC Device Classification:</td> <td>2GHz Personal Communication Services (RSS-133 Issue 2) 800MHz CDMA Cellular Transmitter (RSS-129 Issue 2)</td> </tr> <tr> <td>Device Type:</td> <td>Rugged Laptop PC with Sierra Wireless AirCard 555/550 Dual-Band PCS/Cellular CDMA PCMCIA Modem Card (co-located with Cisco MPI-350 Mini-PCI DSSS WLAN Card & Mitsumi WML-C11 Bluetooth Transmitter) with Vehicle Cradle, & MaxRad Mobile Vehicle-Mount Antenna</td> </tr> <tr> <td>FCC ID:</td> <td>KBCIX260MPIA555BT</td> </tr> <tr> <td>Model(s):</td> <td>IX260</td> </tr> <tr> <td>Tx Frequency Range:</td> <td>1851.25 - 1908.75 MHz (PCS CDMA) 824.70 - 848.31 MHz (Cellular CDMA)</td> </tr> <tr> <td>Max. RF Output Power:</td> <td>0.104 Watts EIRP (PCS CDMA) 0.086 Watts ERP (Cellular CDMA)</td> </tr> <tr> <td>Conducted Power Tested:</td> <td>23.0 dBm (PCS CDMA) 23.0 dBm (Cellular CDMA)</td> </tr> <tr> <td>Emission Designator(s):</td> <td>1M25F9W</td> </tr> <tr> <td>Antenna Type:</td> <td>Mobile Vehicle Antenna (MaxRad P/N: WMLPVDB800/1900 - 3 dBi Gain)</td> </tr> <tr> <td>Power Supply:</td> <td>12V Vehicle Battery</td> </tr> </table>		FCC Rule Part(s):	47 CFR §24(E), §22(H), §2	IC Rule Part(s):	RSS-133 Issue 2, RSS-129 Issue 2	Test Procedure(s):	FCC 47 CFR §24(E), §22(H), §2; ANSI TIA/EIA-603-A-2001 IC RSS-133 Issue 2, RSS-129 Issue 2	FCC Device Classification:	PCS Licensed Transmitter (PCB)	IC Device Classification:	2GHz Personal Communication Services (RSS-133 Issue 2) 800MHz CDMA Cellular Transmitter (RSS-129 Issue 2)	Device Type:	Rugged Laptop PC with Sierra Wireless AirCard 555/550 Dual-Band PCS/Cellular CDMA PCMCIA Modem Card (co-located with Cisco MPI-350 Mini-PCI DSSS WLAN Card & Mitsumi WML-C11 Bluetooth Transmitter) with Vehicle Cradle, & MaxRad Mobile Vehicle-Mount Antenna	FCC ID:	KBCIX260MPIA555BT	Model(s):	IX260	Tx Frequency Range:	1851.25 - 1908.75 MHz (PCS CDMA) 824.70 - 848.31 MHz (Cellular CDMA)	Max. RF Output Power:	0.104 Watts EIRP (PCS CDMA) 0.086 Watts ERP (Cellular CDMA)	Conducted Power Tested:	23.0 dBm (PCS CDMA) 23.0 dBm (Cellular CDMA)	Emission Designator(s):	1M25F9W	Antenna Type:	Mobile Vehicle Antenna (MaxRad P/N: WMLPVDB800/1900 - 3 dBi Gain)	Power Supply:	12V Vehicle Battery
FCC Rule Part(s):	47 CFR §24(E), §22(H), §2																												
IC Rule Part(s):	RSS-133 Issue 2, RSS-129 Issue 2																												
Test Procedure(s):	FCC 47 CFR §24(E), §22(H), §2; ANSI TIA/EIA-603-A-2001 IC RSS-133 Issue 2, RSS-129 Issue 2																												
FCC Device Classification:	PCS Licensed Transmitter (PCB)																												
IC Device Classification:	2GHz Personal Communication Services (RSS-133 Issue 2) 800MHz CDMA Cellular Transmitter (RSS-129 Issue 2)																												
Device Type:	Rugged Laptop PC with Sierra Wireless AirCard 555/550 Dual-Band PCS/Cellular CDMA PCMCIA Modem Card (co-located with Cisco MPI-350 Mini-PCI DSSS WLAN Card & Mitsumi WML-C11 Bluetooth Transmitter) with Vehicle Cradle, & MaxRad Mobile Vehicle-Mount Antenna																												
FCC ID:	KBCIX260MPIA555BT																												
Model(s):	IX260																												
Tx Frequency Range:	1851.25 - 1908.75 MHz (PCS CDMA) 824.70 - 848.31 MHz (Cellular CDMA)																												
Max. RF Output Power:	0.104 Watts EIRP (PCS CDMA) 0.086 Watts ERP (Cellular CDMA)																												
Conducted Power Tested:	23.0 dBm (PCS CDMA) 23.0 dBm (Cellular CDMA)																												
Emission Designator(s):	1M25F9W																												
Antenna Type:	Mobile Vehicle Antenna (MaxRad P/N: WMLPVDB800/1900 - 3 dBi Gain)																												
Power Supply:	12V Vehicle Battery																												

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 §24(E), §22(H), §2, Industry Canada RSS-133 Issue 2, RSS-129 Issue 2, and ANSI TIA/EIA-603-A-2001.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made 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.

This test report shall not be reproduced partially, or in full, without the prior written approval of Celltech Labs Inc. The results and statements contained in this report pertain only to the device(s) evaluated.



Russell Pipe
Senior Compliance Technologist
Celltech Labs Inc.



TABLE OF CONTENTS		
1.1	SCOPE	3
1.2	GENERAL INFORMATION - §2.1033(a)	3
2.1	MEASUREMENT PROCEDURES	4
2.2	RF Output Power - §2.1046	4
2.3	Effective Isotropic Radiated Power Output - §24.232(b)	4
2.4	Effective Radiated Power Output - §22.913	4
2.5	Field Strength of Spurious Radiation - §2.1053	5
2.6	Radiated Measurement Test Setup	5
3.1	TEST DATA	6
3.2	Effective Isotropic Radiated Power Output - §24.232(b)	6
3.3	Effective Radiated Power Output - §22.913	6
3.4	Field Strength of Spurious Radiation - §2.1053	7-9
4.1	LIST OF TEST EQUIPMENT	10
5.1	CONCLUSION	11
APPENDIX A - RADIATED TEST SETUP PHOTOGRAPHS		12

FCC PARTS 24(E) & 22(H) EMC MEASUREMENT REPORT

1.1 SCOPE

Measurement and determination of electromagnetic emissions (EME) from radio frequency devices for compliance with the technical rules and regulations of the Federal Communications Commission and Industry Canada.

1.2 GENERAL INFORMATION - §2.1033(a)

<u>APPLICANT</u>	
ITRONIX CORPORATION 801 South Stevens Street Spokane, WA 99204	
FCC ID	KBCIX260MPIA555BT
Model(s)	IX260
Serial No.	ZZGEG3135ZZ1409 (Identical Prototype)
EUT Type	Rugged Laptop PC with Sierra Wireless AirCard 555/550 Dual-Band PCS/Cellular CDMA PCMCIA Modem Card (co-located with Cisco MPI-350 Mini-PCI DSSS WLAN Card & Mitsumi WML-C11 Bluetooth Transmitter) with Vehicle Cradle, & Mobile Vehicle-Mount Antenna
Rule Part(s)	FCC 47 CFR §24(E), §22(H), §2 IC RSS-133 Issue 2, RSS-129 Issue 2
FCC Classification	Licensed Base Station for Part 24 (PCB)
IC Classification	2GHz Personal Communication Services (RSS-133 Issue 2) 800MHz CDMA Cellular Transmitter (RSS-129 Issue 2)
Tx Frequency Range	1851.25 - 1908.75 MHz (PCS CDMA) 824.70 - 848.31 MHz (Cellular CDMA)
Max. RF Output Power	0.104 Watts EIRP (PCS CDMA) 0.086 Watts ERP (Cellular CDMA)
RF Conducted Output Power Tested	23.0 dBm (PCS CDMA) 23.0 dBm (Cellular CDMA)
Emission Designator	1M25F9W
Frequency Tolerance	150 Hz (PCS CDMA) 300 Hz (Cellular CDMA)
Power Supply	12V Vehicle Battery
Antenna Type	Mobile Vehicle-Mount Antenna (MaxRad P/N: WMLPVDB800/1900 - 3 dBi Gain)

2.1 MEASUREMENT PROCEDURES

2.2 RF OUTPUT POWER MEASUREMENT - §2.1046

The average conducted power levels were measured with a Gigatronics 8650A Universal Power Meter using modulated average power mode. An offset was entered into the power meter to correct for the losses of the attenuator and cable installed before the sensor input. The transmitter terminal was coupled to the power meter and the EUT was placed into test mode via internal software. All subsequent tests were performed using the same tune-up procedures.

Conducted Power Measurements	
Frequency (MHz)	Average Power (dBm)
824.70	23.0
835.89	23.0
848.31	23.0
1851.25	23.0
1880.00	23.0
1908.75	23.0

2.3 EFFECTIVE ISOTROPIC RADIATED POWER OUTPUT - §24.232(b)

EIRP measurements were performed using the Signal Substitution Method in accordance with ANSI TIA/EIA-603-A-2001 on a 3-meter open area test site. The EUT was placed on a turntable 3-meters from the receive antenna and placed into test mode via internal software in the “always up” power control mode. The field of maximum intensity was found by rotating the EUT approximately 360 degrees and changing the height of the receive antenna from 1 to 4 meters. Once a peak was found the spectrum analyzer was set to peak hold and the value of the emission was extracted. The field strength was recorded for each channel being tested, and for both EUT antenna polarizations. A standard gain horn antenna was substituted in place of the EUT. A CDMA signal was fed through a directional coupler to the antenna and the power at the coupler port was monitored. A signal generator and power amplifier controlled the antenna, and the input level of the antenna was adjusted to the same field strength level as the EUT. The feed point for the antenna was then connected to a calibrated power meter and the power adjusted to read the same as the coupler port previously recorded, this is to account for any mismatch in impedance, which may occur at the horn antenna. The conducted power at the antenna feed point was recorded. The forward conducted power for the horn antenna was determined by measuring the power at the horn antenna feed point and reproducing the coupler power previously measured. The EIRP level was determined by adding the horn forward conducted power and the horn antenna gain.

2.4 EFFECTIVE RADIATED POWER OUTPUT - §22.913

ERP measurements were performed using the Signal Substitution Method in accordance with ANSI TIA/EIA-603-A-2001 on a 3-meter open area test site. The EUT was placed on a turntable 3-meters from the receive antenna and placed into test mode via internal software in the “always up” power control mode. The field of maximum intensity was found by rotating the EUT approximately 360 degrees and changing the height of the receive antenna from 1 to 4 meters. Once a peak was found the spectrum analyzer was set to peak hold and the value of the emission was extracted. The field strength was recorded for each channel being tested, and for both EUT antenna polarizations. A half-wave dipole antenna was substituted in place of the EUT. A CDMA signal was fed through a directional coupler to the dipole antenna and the power at the coupler port was monitored. A signal generator and power amplifier controlled the antenna, and the input level of the antenna was adjusted to the same field strength level as the EUT. The feed point for the antenna was then connected to a calibrated power meter and the power adjusted to read the same as the coupler port previously recorded. This was to account for any mismatch in impedance, which may occur at the dipole antenna. The conducted power at the antenna feed point was recorded. The forward conducted power for the dipole antenna was determined by measuring the power at the dipole antenna feed point and reproducing the coupler power previously measured. The ERP level was determined by adding the dipole forward conducted power and the dipole antenna gain.

2.5 FIELD STRENGTH OF SPURIOUS RADIATION - §2.1053

Radiated spurious emissions were measured on a 3-meter open area test site using the Signal Substitution Method in accordance with ANSI TIA/EIA-603-A-2001. The EUT was placed into test mode via internal software in the “always up” power control mode. The EUT was placed on the turntable with the transmitter transmitting into a non-radiating load. A receiving antenna located 3 meters from the turntable received any signal radiated from the transmitter and its operating accessories. The receiving antenna was varied in height from 1 to 4 meters and the polarization was varied (horizontal and vertical) to determine the worst-case emission level. A standard gain horn antenna was substituted in place of the EUT. A CDMA signal was fed through a directional coupler to the antenna and the power at the coupler port was monitored. A signal generator and power amplifier controlled the antenna, and the input level of the antenna was adjusted to the same field strength level as the EUT. The feed point for the antenna was then connected to a calibrated power meter and the power was adjusted to read the same power at the coupler port previously recorded, this is to account for any mismatch in impedance, which may occur at the horn antenna. The conducted power at the antenna feed point was then recorded. The forward conducted power for the horn antenna was determined by measuring the power at the horn antenna feed point and reproducing the coupler power previously measured. The EIRP level was determined by adding the horn forward conducted power and the horn antenna gain. All spurious emissions from the lowest radio frequency generated in the equipment to the tenth harmonic of the carrier were investigated.

2.6 RADIATED MEASUREMENT TEST SETUP

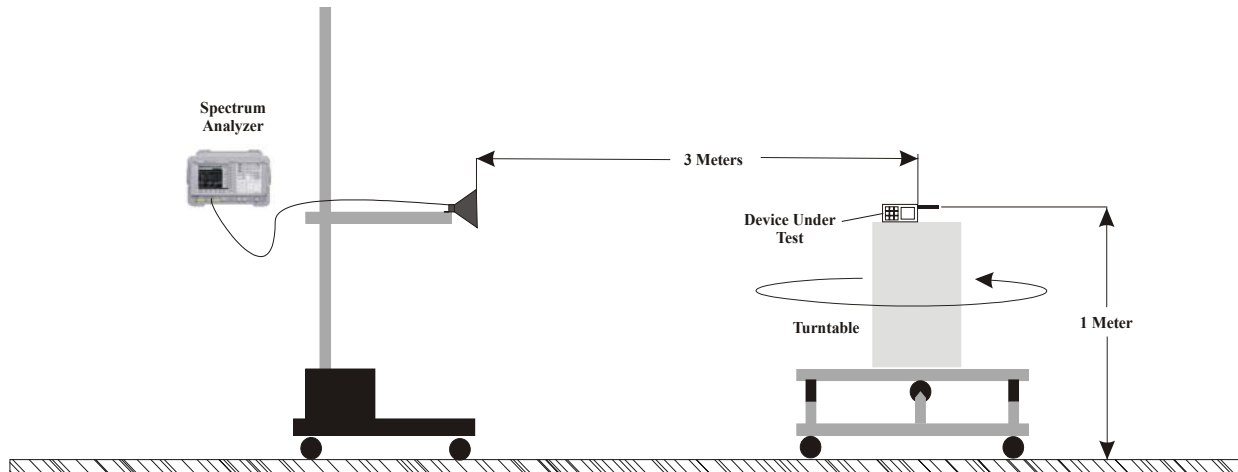


Figure 1. Radiated Measurement Test Setup Diagram - Horn Antenna

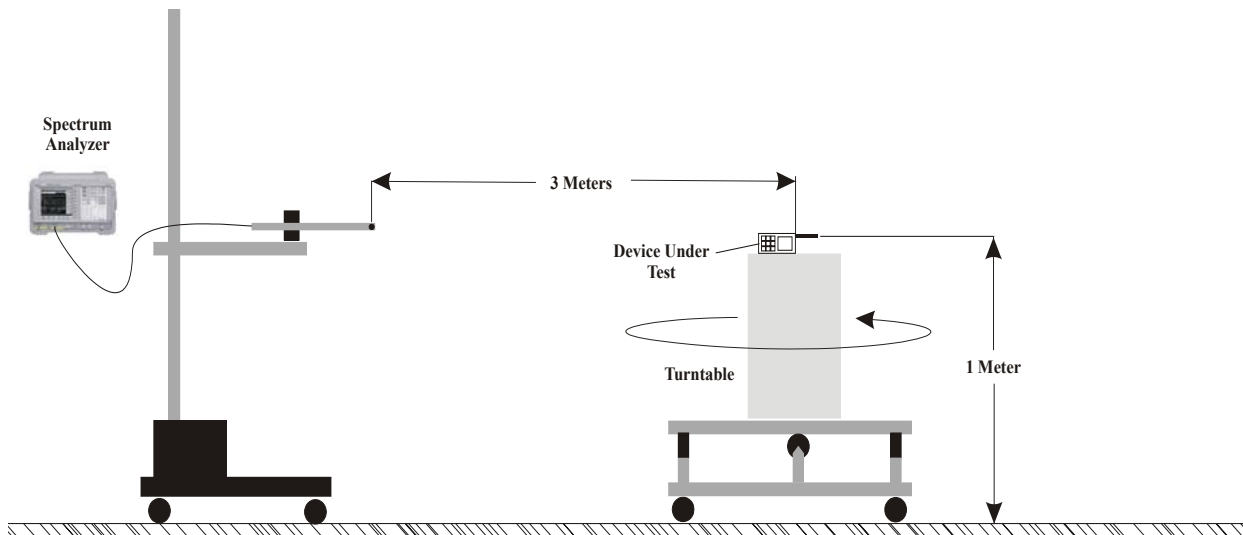


Figure 2. Radiated Measurement Test Setup Diagram - Dipole Antenna

3.1 TEST DATA

3.2 EFFECTIVE ISOTROPIC RADIATED POWER OUTPUT - §24.232(b)

PCS CDMA

Freq. Tuned	EUT Conducted Power	Maximum Field Strength of EUT	Antenna Polariz.	Horn Gain	Horn Forward Conducted Power	EIRP of EUT Horn Gain + Horn Forward Conducted Power	
MHz	dBm	dBm	H / V	dBi	dBm	dBm	Watts
1851.25	23.0	-17.55	V	6.55	13.61	20.16	0.104
1880.00	23.0	-19.73	V	6.58	12.10	18.68	0.074
1908.75	23.0	-20.08	V	6.61	11.96	18.57	0.072

3.3 EFFECTIVE RADIATED POWER OUTPUT - §22.913

CELLULAR CDMA

Freq. Tuned	EUT Conducted Power	Maximum Field Strength of EUT	Antenna Polariz.	Dipole Gain	Dipole Forward Conducted Power	ERP of EUT Dipole Gain + Dipole Forward Conducted Power	
MHz	dBm	dBm	H / V	dBd	dBm	dBm	Watts
824.70	23.0	-18.84	V	- 1.34	19.98	18.64	0.073
835.89	23.0	-16.82	V	- 1.19	20.55	19.36	0.086
848.31	23.0	-18.16	V	- 1.04	18.60	17.56	0.057

3.4 FIELD STRENGTH OF SPURIOUS RADIATION - §2.1053

Operating Frequency (MHz): 1851.25
 Channel: 25 (Low)
 EUT Conducted Pwr. (dBm): 23.0
 Measured EIRP (dBm): 20.16
 Mode: PCS CDMA
 Distance: 3 Meters
 Limit: $43 + 10 \log (W) = 33.17 \text{ dBc}$

Frequency	Field Strength of Spurious Radiation	Horn Forward Conducted Power	Standard Gain Horn Antenna Gain	POL	EIRP	ERP	dBc
MHz	dBm	dBm	dBi	H/V	dBm	dBm	
3702.50	-76.87	-43.98	6.6	V	-37.38	-39.52	59.68
5553.75	-76.53	-38.73	7.8	V	-30.93	-33.07	53.23
7405.00	-75.49	-38.91	7.8	V	-31.11	-33.25	53.41
9256.25	-75.80	-37.78	7.6	V	-30.18	-32.32	52.48
11107.50	-75.33	-38.97	8.5	V	-30.47	-32.61	52.77
12958.75	-74.48	-36.60	8.8	V	-27.80	-29.94	50.10
14810.00	-75.11	-37.23	9.6	V	-27.63	-29.77	49.93
16661.25	-75.42	-37.59	9.0	V	-28.59	-30.73	50.89
18512.50	-75.26	-39.05	9.3	V	-29.75	-31.89	52.05

FIELD STRENGTH OF SPURIOUS RADIATION - §2.1053

Operating Frequency (MHz): 1880.00
 Channel: 600 (Mid)
 EUT Conducted Pwr. (dBm): 23.0
 Measured EIRP (dBm): 18.68
 Mode: PCS CDMA
 Distance: 3 Meters
 Limit: $43 + 10 \log (W) = 31.69 \text{ dBc}$

Frequency	Field Strength of Spurious Radiation	Horn Forward Conducted Power	Standard Gain Horn Antenna Gain	POL	EIRP	ERP	dBc
MHz	dBm	dBm	dBi	H/V	dBm	dBm	
3760.00	-75.03	-42.14	6.6	V	-35.54	-37.68	56.36
5640.00	-75.64	-37.84	7.8	V	-30.04	-32.18	50.86
7520.00	-74.93	-38.35	7.8	V	-30.55	-32.69	51.37
9400.00	-74.59	-36.57	7.6	V	-28.97	-31.11	49.79
11280.00	-75.32	-38.96	8.5	V	-30.46	-32.60	51.28
13160.00	-75.76	-37.88	8.8	V	-29.08	-31.22	49.90
15040.00	-74.81	-36.93	9.6	V	-27.33	-29.47	48.15
16920.00	-74.40	-36.57	9.0	V	-27.57	-29.71	48.39
18800.00	-73.96	-37.75	9.3	V	-28.45	-30.59	49.27

FIELD STRENGTH OF SPURIOUS RADIATION - §2.1053

Operating Frequency (MHz): 1908.75
 Channel: 1175 (High)
 EUT Conducted Pwr. (dBm): 23.0
 Measured EIRP (dBm): 18.57
 Mode: PCS CDMA
 Distance: 3 Meters
 Limit: $43 + 10 \log (W) = 31.57 \text{ dBc}$

Frequency	Field Strength of Spurious Radiation	Horn Forward Conducted Power	Standard Gain Horn Antenna Gain	POL	EIRP	ERP	dBc
MHz	dBm	dBm	dBi	H/V	dBm	dBm	
3817.50	-75.82	-42.93	6.6	V	-36.33	-38.47	57.04
5726.25	-75.43	-37.63	7.8	V	-29.83	-31.97	50.54
7635.00	-75.16	-38.58	7.8	V	-30.78	-32.92	51.49
9543.75	-74.95	-36.93	7.6	V	-29.33	-31.47	50.04
11452.50	-74.51	-38.15	8.5	V	-29.65	-31.79	50.36
13361.25	-73.77	-35.89	8.8	V	-27.09	-29.23	47.80
15270.00	-73.26	-35.38	9.6	V	-25.78	-27.92	46.49
17178.75	-72.80	-34.97	9.0	V	-25.97	-28.11	46.68
19087.50	-73.11	-36.90	9.3	V	-27.60	-29.74	48.31

FIELD STRENGTH OF SPURIOUS RADIATION - §2.1053

Operating Frequency (MHz): 824.70
 Channel: 1013 (Low)
 EUT Conducted Pwr. (dBm): 23.0
 Measured ERP (dBm): 18.64
 Mode: Cellular CDMA
 Distance: 3 Meters
 Limit: $43 + 10 \log (W) = 31.63 \text{ dBc}$

Frequency	Field Strength of Spurious Radiation	Horn Forward Conducted Power	Standard Gain Horn Antenna Gain	POL	EIRP	ERP	dBc
MHz	dBm	dBm	dBi	H/V	dBm	dBm	
1649.40	-72.41	-39.52	6.6	V	-32.92	-35.06	53.70
2474.10	-73.66	-35.86	7.8	V	-28.06	-30.20	48.84
3298.80	-75.90	-39.32	7.8	V	-31.52	-33.66	52.30
4123.50	-76.34	-38.32	7.6	V	-30.72	-32.86	51.50
4948.20	-76.83	-40.47	8.5	V	-31.97	-34.11	52.75
5772.90	-77.15	-39.27	8.8	V	-30.47	-32.61	51.25
6597.60	-75.68	-37.80	9.6	V	-28.20	-30.34	48.98
7422.30	-75.02	-37.19	9.0	V	-28.19	-30.33	48.97
8247.00	-74.97	-38.76	9.3	V	-29.46	-31.60	50.24

FIELD STRENGTH OF SPURIOUS RADIATION - §2.1053

Operating Frequency (MHz): 835.89
 Channel: 363 (Mid)
 EUT Conducted Pwr. (dBm): 23.0
 Measured ERP (dBm): 19.36
 Mode: Cellular CDMA
 Distance: 3 Meters
 Limit: 43 + 10 log (W) = 32.34 dBc

Frequency	Field Strength of Spurious Radiation	Horn Forward Conducted Power	Standard Gain Horn Antenna Gain	POL	EIRP	ERP	dBc
MHz	dBm	dBm	dBi	H/V	dBm	dBm	
1671.78	-84.55	-51.66	6.6	V	-45.06	-47.20	66.56
2507.67	-84.06	-46.26	7.8	V	-38.46	-40.60	59.96
3343.56	-84.83	-48.25	7.8	V	-40.45	-42.59	61.95
4179.45	-85.47	-47.45	7.6	V	-39.85	-41.99	61.35
5015.34	-85.78	-49.42	8.5	V	-40.92	-43.06	62.42
5851.23	-84.60	-46.72	8.8	V	-37.92	-40.06	59.42
6687.12	-84.13	-46.25	9.6	V	-36.65	-38.79	58.15
7523.01	-83.56	-45.73	9.0	V	-36.73	-38.87	58.23
8358.90	-83.93	-47.72	9.3	V	-38.42	-40.56	59.92

FIELD STRENGTH OF SPURIOUS RADIATION - §2.1053

Operating Frequency (MHz): 848.31
 Channel: 777 (High)
 EUT Conducted Pwr. (dBm): 23.0
 Measured ERP (dBm): 17.56
 Mode: Cellular CDMA
 Distance: 3 Meters
 Limit: 43 + 10 log (W) = 30.56 dBc

Frequency	Field Strength of Spurious Radiation	Horn Forward Conducted Power	Standard Gain Horn Antenna Gain	POL	EIRP	ERP	dBc
MHz	dBm	dBm	dBi	H/V	dBm	dBm	
1696.62	-73.23	-40.34	6.6	V	-33.74	-35.88	53.44
2544.93	-74.61	-36.81	7.8	V	-29.01	-31.15	48.71
3393.24	-75.30	-38.72	7.8	V	-30.92	-33.06	50.62
4241.55	-76.46	-38.44	7.6	V	-30.84	-32.98	50.54
5089.86	-77.38	-41.02	8.5	V	-32.52	-34.66	52.22
5938.17	-77.79	-39.91	8.8	V	-31.11	-33.25	50.81
6786.48	-75.03	-37.15	9.6	V	-27.55	-29.69	47.25
7634.79	-74.81	-36.98	9.0	V	-27.98	-30.12	47.68
8483.10	-75.57	-39.36	9.3	V	-30.06	-32.20	49.76

4.1 TEST EQUIPMENT LIST

TEST EQUIPMENT LIST			
Equipment Type	Model	Serial No.	Calibration Due Date
HP Signal Generator	8648D (9kHz-4.0GHz)	3847A00611	Feb 2004
Rohde & Schwarz Signal Generator	SMR40 (10MHz-40GHz)	835537/022	Nov 2003
Gigatronics Power Meter	8652A	1835272	Feb 2004
Gigatronics Power Sensor	80701A (0.05-18GHz)	1833535	Feb 2004
Gigatronics Power Sensor	80701A (0.05-18GHz)	1833542	Feb 2004
Amplifier Research Power Amp.	5S1G4 (5W, 800MHz-4.2GHz)	26235	N/A
Microwave System Amplifier	HP 83017A (0.5-26.5GHz)	3123A00587	N/A
Network Analyzer	HP 8753E (30kHz-3GHz)	US38433013	Feb 2004
Audio Analyzer	HP 8903B	3729A18691	Nov 2003
Modulation Analyzer	HP 8901A	3749A07154	July 2003
Frequency Counter	HP 53181A (3GHz)	3736A05175	May 2003
DC Power Supply	HP E3611A	KR83015294	N/A
Multi-Device Controller	EMCO 2090	9912-1484	N/A
Mini Mast	EMCO 2075	0001-2277	N/A
Turntable	EMCO 2080-1.2/1.5	0002-1002	N/A
Double Ridged Horn Antenna	ETS 3115 (1-18GHz)	6267	Oct. 2003
Double Ridged Horn Antenna	ETS 3115 (1-18GHz)	6276	Oct. 2003
Horn Antenna	Chase BBHA 9120-A (0.7-4.8GHz)	9120A-239	Sept 2003
Horn Antenna	Chase BBHA 9120-A (0.7-4.8GHz)	9120A-240	Sept 2003
Roberts Dipoles	Compliance Design (2 sets) 3121C		June 2003
Spectrum Analyzer	HP 8594E	3543A02721	Feb 2004
Spectrum Analyzer	HP E4408B	US39240170	Dec 2003
Shielded Screen Room	Lindgren R.F. 18W-2/2-0	16297	N/A
Environmental Chamber	ESPEC ECT-2 (Temperature/Humidity)	0510154-B	Feb 2004

5.1 CONCLUSION

The data in this measurement report demonstrates that the ITRONIX CORPORATION Model: IX260 Rugged Laptop PC FCC ID: KBCIX260MPIA555BT with Sierra Wireless AirCard 555/550 Dual-Band PCS/Cellular CDMA PCMCIA Modem Card (co-located with Cisco MPI-350 Mini-PCI DSSS WLAN Card and Mitsumi WML-C11 Bluetooth Transmitter), Vehicle Cradle, and MaxRad Mobile Vehicle-Mount Antenna (P/N: WMLPVDB800/1900), complies with the requirements of FCC Rule Parts §24(E), §22(H), §2.