

DECLARATION OF COMPLIANCE MPE EVALUATION REPORT					
Test Lab CELLTECH LABS INC. 1955 Moss Court Kelowna, B.C. Canada V1Y 9L3		Applicant Information ITRONIX CORPORATION 801 South Stevens Street Spokane, WA 99210 United States			
Phone: 250-448-7047 Fax: 250-448-7046 e-mail: info@celltechlabs.com web site: www.celltechlabs.com					
FCC IDENTIFIER: Model(s):	KBCIX100XAC555 IX100XAC555				
FCC Rule Part(s): IC Rule Part(s): FCC Classification: IC Classification: Device Type:	47 CFR §24(E), §22(H); §2.1091; §1.1310 RSS-133 Issue 2, RSS-132 Issue 1 (Prov.), RSS-102 Issue 1 (Prov.) PCS Licensed Transmitter worn on body (PCT) 2 GHz Personal Communication Services (RSS-133) 800 MHz Cellular Telephones Employing New Technologies (RSS-132) Rugged Handheld PC with Sierra Wireless AirCard 555/550 CDMA Modem,				
Tx Frequency Range(s): Max. Conducted Power Measured:	Itronix IX100X Vehicle Cradle, & MaxRad 3 dBi Gain Vehicle-Mount Antenna 1851.25 - 1908.75 MHz (PCS CDMA) 824.70 - 848.31 MHz (Cellular CDMA) 23.0 dBm (PCS CDMA) 23.0 dBm (Cellular CDMA)				
Antenna Type(s) Evaluated:	MaxRad 3 dBi Gain Vehicle-Mount (P/N: WMLPVDB800/1900)				

This device is compliant with localized Maximum Permissible Exposure (MPE) for Uncontrolled Exposure / General Population limits specified in FCC 47 CFR §1.1310 and Industry Canada RSS-102 Issue 1 (Provisional), in accordance with the requirements of FCC OET Bulletin 65, Edition 97-01, Health Canada's Safety Code 6, ANSI / IEEE C95.1-1992, and ANSI / IEEE C95.3-1992.

I attest to the accuracy of data. All measurements and/or calculations 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 evaluation 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.

Duane Friesen EMC Manager Celltech Labs Inc

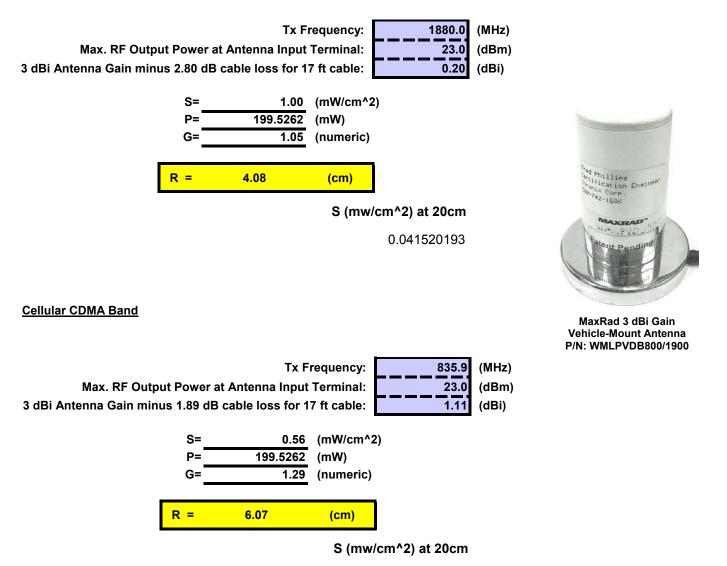




## 1.1 MPE Calculation Data

### MaxRad 3 dBi Gain Vehicle-Mount Antenna (P/N: WMLPVDB800/1900)

### PCS CDMA Band



0.051198751



# 2.1 Calculation to determine MPE

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

$$R = \sqrt{\frac{PG}{4\pi S}}$$

$$S = \text{power density}$$

$$P = \text{power input to the antenna}$$

$$G = \text{power gain of the antenna in the direction of interest relative to an isotropic radiator}$$

$$R = \text{distance to the center of radiation of the antenna}$$

### 3.1 MPE Limits

According to FCC 47 CFR 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b).

Frequency Range	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Average Time (minutes)		
(MHz)						
(A)Limits For Occupational / Control Exposures						
30-300	61.4	0.163	1.0	6		
300-1500			F/300	6		
1500-100,000			5	6		
(B)Limits For General Population / Uncontrolled Exposure						
30-300	27.5	0.073	0.2	30		
300-1500			F/1500	30		
1500-100,000			1.0	30		

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

F = Frequency in MHz

### 4.1 Summary

The Maximum Permissible Exposure (MPE) limit (General Population / Uncontrolled Exposure environment) for the frequency range in the PCS CDMA band (1850-1910 MHz) is 1.0 mW/cm<sup>A<sup>2</sup></sup>; and the limit for the frequency range in the cellular CDMA band (824-849 MHz) is 0.6 mW/cm<sup>A<sup>2</sup></sup> (F/1500). The data in this report demonstrates that the Itronix Corporation Model: IX100XAC555 Rugged Handheld PC FCC ID: KBCIX100XAC555, with internal Sierra Wireless AirCard 555/550 Dual-Band CDMA Modem, Itronix IX100X Vehicle Cradle (P/N: P/N: 50-0107-001), and MaxRad 3 dBi Gain Vehicle-Mount Antenna (P/N: WMLPVDB800/1900), complies with the Maximum Permissible Exposure (MPE) requirements specified in FCC §2.1091, §1.1310, OET Bulletin 65 (Edition 97-01), and Health Canada's Safety Code 6 for the General Population / Uncontrolled Exposure environment.

### Notes:

1. The 17 ft antenna cable is supplied with and connected to the vehicle antenna at time of purchase.