#### **CERTIFICATE OF COMPLIANCE** SAR EVALUATION

Test Lab:

#### CELLTECH RESEARCH INC.

Testing and Engineering Lab 1955 Moss Court Kelowna, B.C. Canada V1Y 9L3 Phone: 250 - 860-3130 Fax: 250 - 860-3110 Toll Free: 1-877-545-6287 e-mail: <u>celltech@globuswireless.com</u> web site: www.globuswireless.com

#### **Applicant Name:**

#### **ITRONIX CORPORATION**

801 South Stevens Street
Spokane, WA 99204
Attn: Fred Phillips, Certification Engineer
Phone: 509-742-1506
Fax: 509-626-4204

FCC ID:	KBCFEX21RIM802
Model(s):	FeX21
Equipment Type:	Rugged Handheld PC w/ RIM 802 DataTAC Radio Modem
<b>Tx Frequency Range:</b>	806-825 MHz
<b>Rx Frequency Range:</b>	851-870 MHz
Max. RF Output Power	r:1.3 Watts
FCC Rule Part(s):	2.1093; ET Docket 96.326

This wireless mobile and/or portable device has been shown to be compliant for localized specific absorption rate (SAR) for uncontrolled environment/general exposure limits specified in ANSI/IEEE Std. C95.1-1992 and had been tested in accordance with the measurement procedures specified in ANSI/IEEE Std. C95.3-1999. (See test report).

I attest to the accuracy of data. All measurements 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.

Celltech Research Inc. certifies that no party to this application has been denied FCC benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 853(a).

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Shawn McMillen General Manager Celltech Research Inc.



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#### 1.0 INTRODUCTION

This measurement report is designed to show compliance of the Itronix Model: FeX21 Rugged Handheld PC with RIM 802-2-0 DataTAC Radio Modem FCC ID: KBCFEX21RIM802 with FCC Part 2, 1093, ET Docket 96-326 Rules for mobile and portable devices. The test procedures, as described in American National Standards Institute C95.1 - 1992 (1), FCC OET Bulletin 65–1997 were employed. A description of the product and operating configuration, detailed summary of the test results, methodology and procedures used in the evaluation, equipment used, and the various provisions of the rules are included within this test report.

#### 2.0 DESCRIPTION of Equipment Under Test (EUT)

EUT Type	Rugged Handheld PC with RIM 802 DataTAC Radio Modem	Equipment Class	Licensed Non-Broadcast Station Transmitter (TNB)
Radio Type	RIM 802D-2-O (DataTAC Network)	Model No.(s)	FeX21
FCC ID	KBCFEX21RIM802	S/N No.	Pre-production
Tx Frequency Range (MHz)	806-825	Max. RF Output Power	1.3 Watts
Rx Frequency Range (MHz)	851-870	Signal Modulation(s)	FSK
Antenna Type	Dipole	Antenna Length	160 mm



Figure 1. Front of EUT



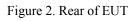






Figure 3. Antenna

Figure 4. Radio Modem

#### 3.0 SAR MEASUREMENT SYSTEM

Celltech Research SAR measurement facility utilizes the Dosimetric Assessment System (DASY<sup>TM</sup>) manufactured by Schmid & Partner Engineering AG (SPEAG<sup>TM</sup>) of Zurich, Switzerland. The DASY system is comprised of the robot controller, computer, near-field probe, probe alignment sensor, and the generic twin phantom containing brain or muscle equivalent material (see Figure 6). The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF). A cell controller system contains the power supply, robot controller, teach pendant (Joystick), and remote control, is used to drive the robot motors. The Staubli robot is connected to the cell controller to allow software manipulation of the robot. A data acquisition electronics (DAE) circuit performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electro-optical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the PC plug-in card. The DAE3 utilizes a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the PC-card is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe-mounting device includes two different sensor systems for frontal and sidewise probe contacts. They are also used for mechanical surface detection and probe collision detection. The robot uses its own controller with a built in VME-bus computer.



Figure 5. DASY3 SAR Measurement System

#### 4.0 MEASUREMENT SUMMARY

The measurement results were obtained with the EUT tested in the conditions described in this report. Detailed measurement data and plots showing the maximum SAR location of the EUT are reported in Appendix A.

Freq. (MHz)	Mode Tested	Conducted Power (dBm)	Antenna Position	Phantom Position	Separation Distance (cm)		SAR (w/kg)
806	Unmod.	33.0	Vertical	Flat	4.0	1.02	0.255 (25% duty cycle)
815	Unmod.	33.0	Vertical	Flat	4.0	1.13	0.2825 (25% duty cycle)
821	Unmod.	33.0	Vertical	Flat	4.0	1.54	<b>0.385</b> (25% duty cycle)
Mixture Type: Muscle Dielectric Constant: 56.1 Conductivity: 0.95			Spatial	Peak Uncon	C95.1 1992 - S trolled Exposu <b>6 W/kg (avera</b>	re/Genera	l Population

Notes:

- 1. All modes of operation were investigated and the worst-case SAR levels are recorded.
- 2. The SAR values found were below the maximum limit of 1.6 w/kg.
- 3. The worst-case SAR value found was 0.385 w/kg (25% duty cycle).

#### 5.0 SAR SAFETY LIMITS

EXPOSURE LIMITS (General populations/Uncontrolled Exposure Environment)	SAR (W/Kg)
Spatial Average (averaged over the whole body)	0.08
Spatial Peak (averaged over any 1g of tissue)	1.60
Spatial Peak (hands/wrists/feet/ankles averaged over 10g)	4.00

- Notes: 1. The FCC SAR safety limits specified in the table above apply to devices operated in the General Population / Uncontrolled Exposure environment.
  - 2. Uncontrolled environments are defined as locations where there is exposure of individuals who have no knowledge or control of their exposure.

#### 6.0 DETAILS OF SAR EVALUATION

The Itronix FeX21 Rugged Handheld PC with RIM 802 DataTAC Radio Modem FCC ID: KBCFEX21RIM802 was found to be compliant for localized specific absorption rate (SAR) based on the following test provisions and conditions:

- 1) The EUT is operated in a body-worn configuration. For the test setup the rear of the device (antenna side) was placed facing up and parallel to the outer surface of the planar phantom with 4.0cm spacing between the antenna and the outer surface of the planar phantom.
- 2) The body-worn measurements were evaluated at maximum power and the unit was operated for an appropriate period prior to the evaluation in order to minimize drift.
- 3) The device was keyed to operate continuously in the transmit mode for the duration of the test.
- 4) The location of the maximum spatial SAR distribution (Hot Spot) was determined relative to the device and its antenna.
- 5) The EUT was tested with a fully charged battery.



Figure 5. Test Setup with 4cm spacing between device antenna and planar phantom surface.

#### 7.0 EVALUATION PROCEDURES

The Specific Absorption Rate (SAR) evaluation was performed in the following manner:

a. (i) The evaluation was performed in an applicable area of the phantom depending on the type of device being tested. For devices worn about the ear during normal operation, both the left and right ear positions were evaluated at the center frequency of the band at maximum power. The side, which produced the greatest SAR, determined which side of the phantom would be used for the entire evaluation. The positioning of the head worn device relative to the phantom was dictated by FCC OET bulletin 65 Supp., C.

(ii) For body worn devices or devices which can be operated within 20 cm of the body, the planar section of the phantom was used. The type of device being evaluated dictated the distance of the EUT to the outer surface of the planar phantom.

b. The SAR was determined by a pre-defined procedure within the DASY3 software. Upon completion of a reference and optical surface check, the exposed region of the phantom was scanned near the inner surface with a grid spacing of 20mm x 20mm.

c. A 5x5x7 matrix was performed around the greatest spatial SAR distribution found during the area scan of the applicable exposed region. SAR values were then calculated using a 3-D spline interpolation algorithm and averaged over spatial volumes of 1 and 10 grams.

d. If the EUT had any appreciable drift over the course of the evaluation, then the EUT was reevaluated. Any unusual anomalies over the course of the test also warranted a re-evaluation.

#### 8.0 SYSTEM VALIDATION

Prior to the assessment, the system was verified in the planar region of the phantom. For devices operating below 1GHz, an 835MHz dipole or 900MHz was used, depending on the operating frequency of the EUT. For devices operating above 1GHz, an 1800MHz dipole was used. A forward power of 250mW was applied to the dipole and system was verified to a tolerance of  $\pm 5\%$ . Following the validation, the fluid remained or was changed depending on the particular part of the body being evaluated. The applicable verification(s) is/are as follows (see Appendix B for validation test plot):

Dipole Validation Kit	Target SAR 1g (w/kg)	Measured SAR 1g (w/kg)
D835V2	2.06	2.04

#### 9.0 SIMULATED TISSUES

The brain and muscle mixtures consist of a viscous gel using hydroxethylcellullose (HEC) gelling agent and saline solution. Preservation with a bactericide was added and visual inspection was made to ensure air bubbles are not trapped during the mixing process. The mixture was calibrated to obtain proper dielectric constant (permittivity) and conductivity of the tissue.

INGREDIENT	FREQUENCY (835MHz Muscle)
Water	52.4%
Sugar	45.0%
Salt	1.4%
HEC	1.0%
Bactericide	0.2%

#### 10.0 TISSUE PARAMETERS

The dielectric parameters of the fluids were verified prior to the SAR evaluation using an 85070C Dielectric Probe Kit and an 8753E Network Analyzer. The dielectric parameters of the fluid are as follows:

Frequency	Dielectric Constant	Conductivity	ñ (Kg/m <sup>3</sup> )
(Muscle)	å <sub>r</sub>	ó (mho/m)	
800-850 MHz	56.1 ± 5%	0.95 ± 10%	1000

#### 11.0 ROBOT SYSTEM SPECIFICATIONS

#### **Specifications**

<b>POSITIONER:</b>	Stäubli Unimation Corp. Robot Model: RX60L
<b>Repeatability:</b>	0.02 mm
No. of axis:	6

#### Data Acquisition Electronic (DAE) System

<u>Cell Controller</u>	
Processor:	Pentium III
<b>Clock Speed:</b>	450 MHz
<b>Operating System:</b>	Windows NT
Data Card:	DASY3 PC-Board
<b>Data Converter</b>	
Features:	Signal Amplifier, multiplexer, A/D converter, and control logic
Software:	DASY3 software
Connecting Lines:	Optical downlink for data and status info. Optical uplink for commands and clock

#### PC Interface Card

24 bit (64 MHz) DSP for real time processing
Link to DAE3
16 bit A/D converter for surface detection system
serial link to robot
direct emergency stop output for robot

#### **E-Field Probe**

Model:	ET3DV6
Serial No.:	1387
<b>Construction:</b>	Triangular core fiber optic detection system
Frequency:	10 MHz to 6 GHz
Linearity:	± 0.2 dB (30 MHz to 3 GHz)

#### **Phantom**

Phantom:	Generic Twin
Shell Material:	Fiberglass
Thickness:	$2.0 \pm 0.1 \text{ mm}$

#### 12.0 TEST EQUIPMENT LIST

SAR MEASUREMENT SYSTEM						
<u>EQUIPMENT</u>	<u>S/N #</u>	CALIBRATION DATE				
DASY3 System -Robot -ET3DV6 E-Field Probe -DAE -835MHz Validation Dipole -900MHz Validation Dipole -1800MHz Validation Dipole -Generic Twin Phantom V3.0	599396-01 1387 383 411 054 247 N/A	N/A Sept 1999 Sept 1999 Aug 1999 Aug 1999 Aug 1999 N/A				
85070C Dielectric Probe Kit	N/A	N/A				
Gigatronics 8652A Power Meter -Power Sensor 80701A -Power Sensor 80701A	1835272 1833535 1833542	Oct 1999 Oct 1999 Oct 1999				
E4408B Spectrum Analyzer	US39240170	Nov 1999				
8594E Spectrum Analyzer	3543A02721	Mar 2000				
8753E Network Analyzer	US38433013	Nov 1999				
8648D Signal Generator	3847A00611	N/A				
5S1G4 Amplifier Research Power Amplifier	26235	N/A				

#### 13.0 MEASUREMENT UNCERTAINTIES

Uncertainty Description	Error	Distribution	Weight	Standard Deviation	Offset
Probe Uncertainty					
Axial isotropy	±0.2 dB	U-Shaped	0.5	±2.4 %	
Spherical isotropy	±0.4 dB	U-Shaped	0.5	±4.8 %	
Isotropy from gradient	±0.5 dB	U-Shaped	0	±	
Spatial resolution	±0.5 %	Normal	1	±0.5 %	
Linearity error	±0.2 dB	Rectangle	1	±2.7 %	
Calibration error	±3.3 %	Normal	1	±3.3 %	
SAR Evaluation Uncertainty					
Data acquisition error	±1 %	Rectangle	1	±0.6 %	
ELF and RF disturbances	±0.25 %	Normal	1	±0.25 %	
Conductivity assessment	±10 %	Rectangle	1	±5.8 %	
Spatial Peak SAR Evaluation Uncertainty					
Extrapolated boundary effect	±3 %	Normal	1	±3 %	±5 %
Probe positioning error	±0.1 mm	Normal	1	±1 %	
Integrated and cube orientation	±3 %	Normal	1	±3 %	
Cube Shape inaccuracies	±2 %	Rectangle	1	±1.2 %	
Device positioning	±6 %	Normal	1	±6 %	
Combined Uncertainties				±11.7 %	±5 %

Measurement uncertainties in SAR measurements are difficult to quantify due to several variables including biological, physiological, and environmental. However, the estimated measurement uncertainties in SAR are less than 15-25 %.

According to ANSI/IEEE C95.3, the overall uncertainties are difficult to assess and will vary with the type of meter and usage situation. However, accuracy's of  $\pm 1$  to 3 dB can be expected in practice, with greater uncertainties in near-field situations and at higher frequencies (shorter wavelengths), or areas where large reflecting objects are present. Under optimum measurement conditions, SAR measurement uncertainties of at least  $\pm 2$ dB can be expected.

According to CENELEC, typical worst-case uncertainty of field measurements is  $\pm$  5 dB. For well-defined modulation characteristics the uncertainty can be reduced to  $\pm$  3 dB.

#### 14.0 REFERENCES

(1) ANSI, ANSI/IEEE C95.1: IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3kHz to 300 Ghz, The Institute of Electrical and Electronics Engineers, Inc., New York, NY 10017, 1992;

(2) Federal Communications Commission, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio frequency Electromagnetic Fields", OET Bulletin 65, FCC, Washington, D.C. 20554, 1997;

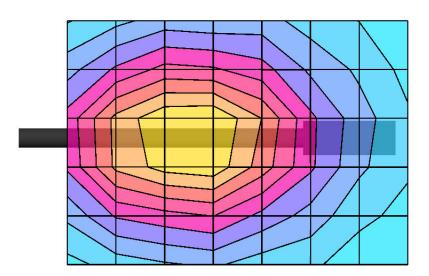
(3) Thomas Schmid, Oliver Egger, and Neils Kuster, "Automated E-field scanning system for dosimetric assessments", IEEE *Transaction on Microwave Theory and Techniques*, Vol. 44, pp. 105 – 113, January, 1996.

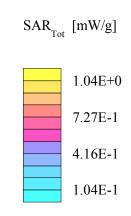
(4) Niels Kuster, Ralph Kastle, and Thomas Schmid, "Dosimetric evaluation of mobile communications equipment with know precision", IEICE Transactions of Communications, vol. E80-B, no. 5, pp. 645 – 652, May 1997.

#### APPENDIX "A" - SAR MEASUREMENT DATA

 $\begin{array}{c} \label{eq:spectral_spectrum} ITRONIX FCC ID: KBCFEX21RIM802\\ \mbox{Generic Twin Phantom; Flat Section; Position: (270°,90°);}\\ \mbox{Probe: ET3DV6 - SN1387; ConvF(6.43,6.43,6.43); Crest factor: 1.0;}\\ \mbox{Muscle 835 MHz: } \sigma = 0.95 \mbox{ mho/m } \epsilon_r = 56.1 \mbox{ } \rho = 1.00 \mbox{ g/cm}^3\\ \mbox{Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0}\\ \mbox{Cube 5x5x7}\\ \mbox{SAR (1g): 1.02 mW/g * , SAR (10g): 0.714 mW/g * Max outside} \end{array}$ 

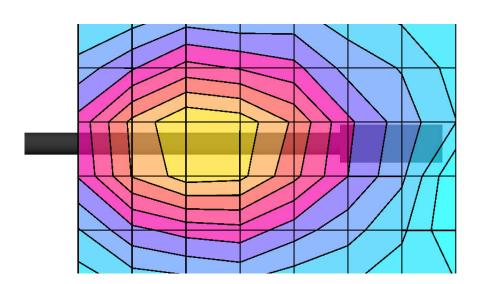
Separation Distance 4.0cm Unmodulated Carrier Low Channel [806MHz] Conducted Power 33dBm Date Tested: Oct 2, 2000

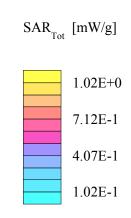




 $\begin{array}{c} \mbox{ITRONIX FCC ID: KBCFEX21RIM802} \\ \mbox{Generic Twin Phantom; Flat Section; Position: (270°,90°);} \\ \mbox{Probe: ET3DV6 - SN1387; ConvF(6.43,6.43,6.43); Crest factor: 1.0;} \\ \mbox{Muscle 835 MHz: } \sigma = 0.95 \mbox{ mho/m } \epsilon_r = 56.1 \mbox{ } \rho = 1.00 \mbox{ g/cm}^3 \\ \mbox{Coarse: Dx} = 20.0, \mbox{ Dy} = 20.0, \mbox{ Dz} = 10.0 \\ \mbox{ Cube } 5x5x7 \\ \mbox{SAR (1g): 1.13 } \mbox{ mW/g, SAR (10g): 0.761 } \mbox{ mW/g} \end{array}$ 

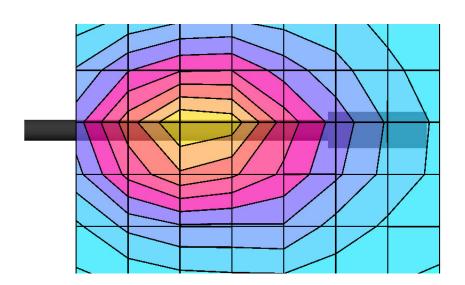
Separation Distance 4.0cm Unmodulated Carrier Mid Channel [815MHz] Conducted Power 33dBm Date Tested: Oct 2, 2000

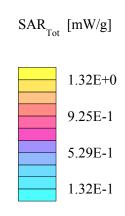




 $\begin{array}{c} \mbox{ITRONIX FCC ID: KBCFEX21RIM802} \\ \mbox{Generic Twin Phantom; Flat Section; Position: (270°,90°);} \\ \mbox{Probe: ET3DV6 - SN1387; ConvF(6.43,6.43,6.43); Crest factor: 1.0;} \\ \mbox{Muscle 835 MHz: } \sigma = 0.95 \mbox{ mho/m } \epsilon_r = 56.1 \mbox{ } \rho = 1.00 \mbox{ g/cm}^3 \\ \mbox{Coarse: Dx = 20.0, Dy = 20.0, Dz = 10.0} \\ \mbox{Cube 5x5x7} \\ \mbox{SAR (1g): 1.54 mW/g, SAR (10g): 1.05 mW/g} \end{array}$ 

Separation Distance 4.0cm Unmodulated Carrier High Channel [821MHz] Conducted Power 33dBm Date Tested: Oct 2, 2000

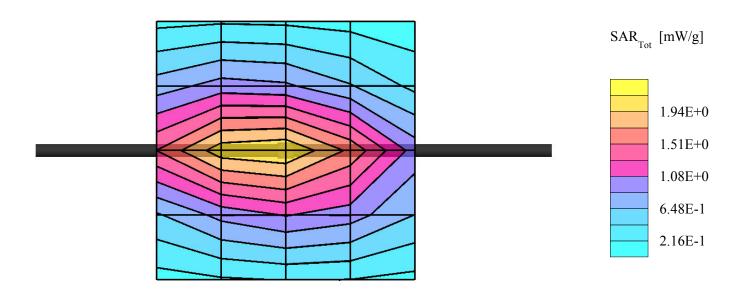




#### **APPENDIX "B" – DIPOLE VALIDATION**

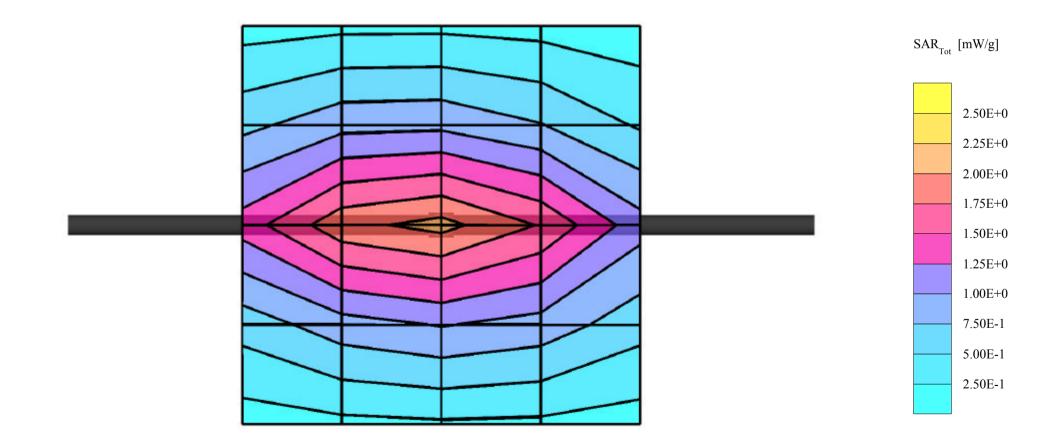
# $\begin{array}{c} \label{eq:2.1} Dipole \ 835 \ MHz\\ Generic Twin Phantom; Flat Section; Position: (90°,90°);\\ Probe: ET3DV6 - SN1387; ConvF(6.43,6.43,6.43); Crest factor: 1.0;\\ Brain 835 \ MHz: \ \sigma = 0.80 \ mho/m \ \epsilon_r = 44.2 \ \rho = 1.00 \ g/cm^3\\ Coarse: \ Dx = 20.0, \ Dy = 20.0, \ Dz = 10.0 \ Cube \ 5x5x7\\ SAR \ (1g): 2.04 \ mW/g, \ SAR \ (10g): 1.34 \ mW/g \end{array}$

Validation Date: Oct. 2, 2000



#### Validation Dipole D835V2 SN:411, d = 15mm

Frequency: 835 MHz; Antenna Input Power: 250 [mW] Generic Twin Phantom; Flat Section; Grid Spacing: Dx = 20.0, Dy = 20.0, Dz = 10.0Probe: ET3DV5 - SN1342/DAE3; ConvF(5.75,5.75); Brain 835 MHz:  $\sigma = 0.80$  mho/m  $\varepsilon_r = 44.2 \ \rho = 1.00$  g/cm<sup>3</sup> Cubes (2): Peak: 3.07 mW/g  $\pm$  0.05 dB, SAR (1g): 2.06 mW/g  $\pm$  0.05 dB, SAR (10g): 1.38 mW/g  $\pm$  0.05 dB, (Worst-case extrapolation) Penetration depth: 13.6 (12.7, 14.8) [mm] Powerdrift: -0.00 dB



#### APPENDIX "C" – PROBE CALIBRATION

## Schmid & Partner Engineering AG

Staffelstrasse 8, 8045 Zurich, Switzerland, Telefon +41 1 280 08 60, Fax +41 1 280 08 64

# Probe ET3DV6

# SN:1387

Manufactured: Last calibration: September 21, 1999 September 22, 1999

Calibrated for System DASY3

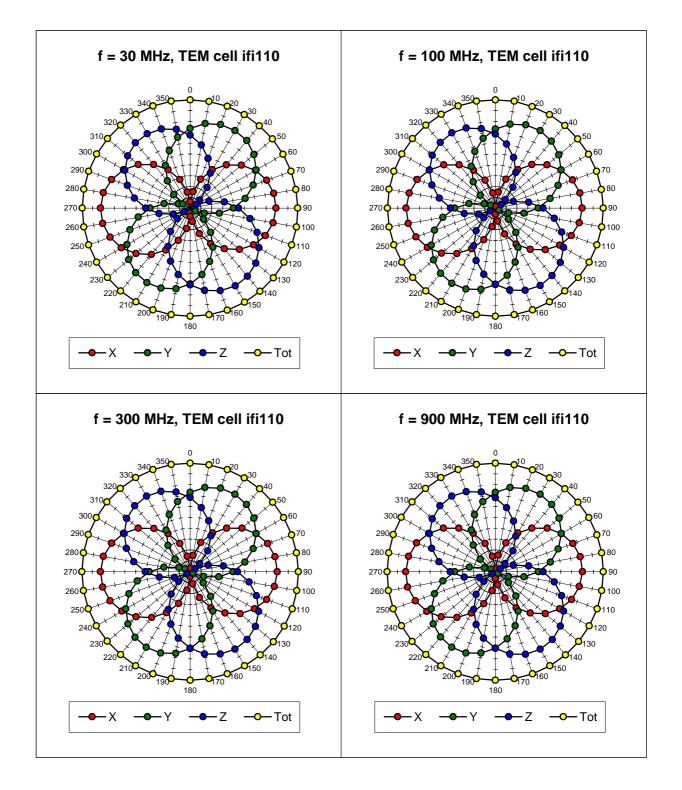
# DASY3 - Parameters of Probe: ET3DV6 SN:1387

Sensitivity in Free Space			Diode Compression							
	NormX	1.55	μV/(V/m) <sup>2</sup>		DCP X	<b>98</b> mV				
	NormY		μV/(V/m) <sup>2</sup>		DCP Y	<b>98</b> mV				
	NormZ		μV/(V/m) <sup>2</sup>		DCP Z	<b>98</b> mV				
<b>•</b> • • •										
Sensitivity in Tissue Simulating Liquid										
Brain	Brain 450 MHz		$e_{\rm r} = 48 \pm 5\%$	S	s = 0.50 ± 10% mho/m					
	ConvF X	6.76	extrapolated		Boundary effect	:				
	ConvF Y	6.76	extrapolated		Alpha	0.30				
	ConvF Z	6.76	extrapolated		Depth	2.52				
Brain	n 900 MHz		<b>e</b> <sub>r</sub> = 42.5 ± 5%	s	= 0.86 ± 10% mho/m					
	ConvF X	6.34	± 7% (k=2)		Boundary effect	:				
	ConvF Y	6.34	± 7% (k=2)		Alpha	0.47				
	ConvF Z	6.34	± 7% (k=2)		Depth	2.25				
Brain	1500 MHz		$e_{\rm r} = 41 \pm 5\%$	s	s = 1.32 ± 10% mho/m					
	ConvF X	5.78	interpolated		Boundary effect	:				
	ConvF Y	5.78	interpolated		Alpha	0.69				
	ConvF Z	5.78	interpolated		Depth	1.88				
Brain	1800 MHz		$e_r = 41 \pm 5\%$	s	s = 1.69 ± 10% mho/m					
	ConvF X	5.50	± 7% (k=2)		Boundary effect	:				
	ConvF Y	5.50	± 7% (k=2)		Alpha	0.81				
	ConvF Z	5.50	± 7% (k=2)		Depth	1.70				
Sensor Offset										
	Probe Tip to Se	ensor C	enter	2.7	mm					

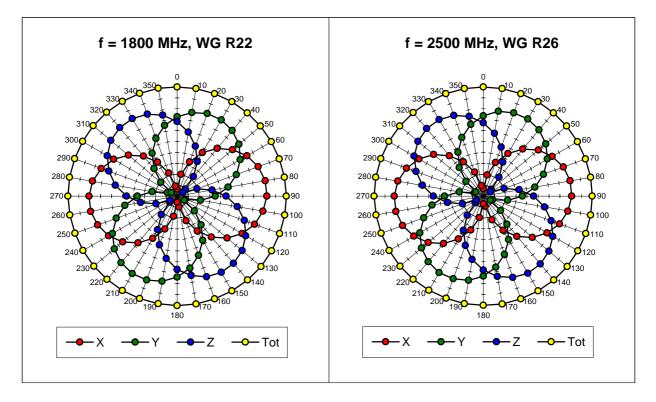
Optical Surface Detection

1.6 ± 0.2

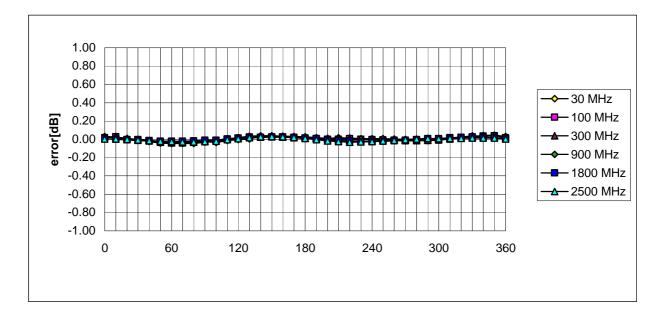
mm



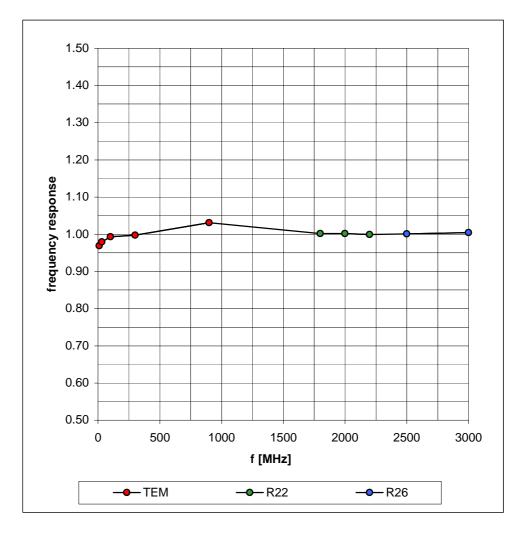
# Receiving Pattern (f), q = 0°



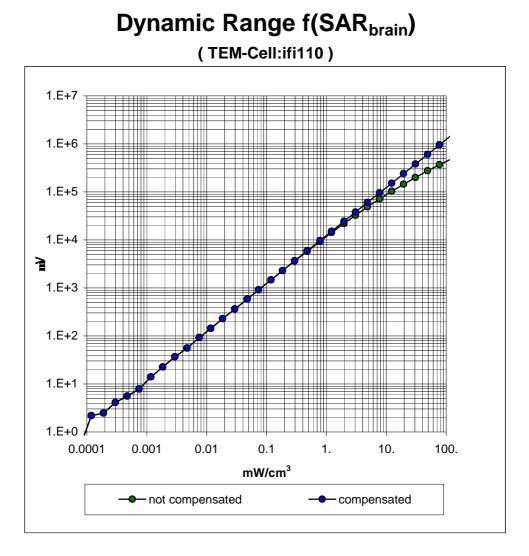
# Isotropy Error (f), $q = 0^{\circ}$

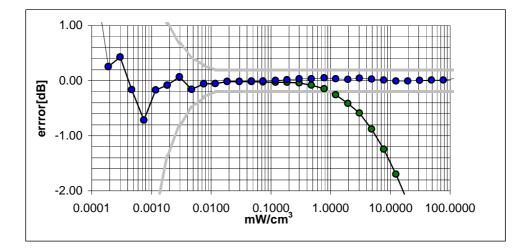


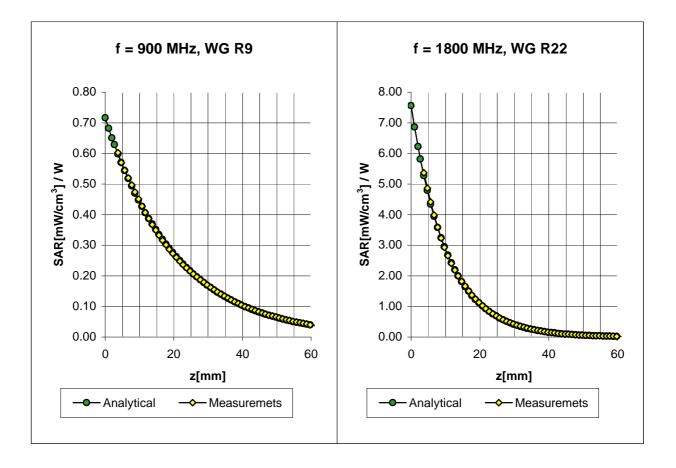
# **Frequency Response of E-Field**



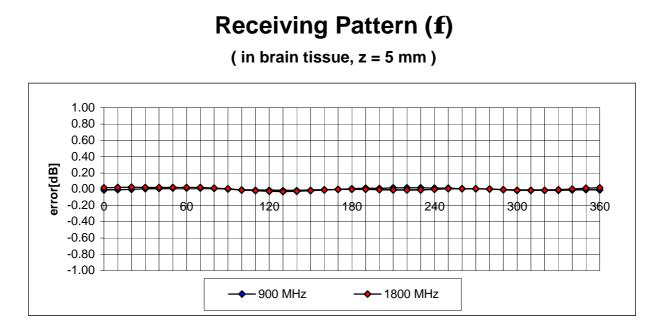
(TEM-Cell:ifi110, Waveguide R22, R26)







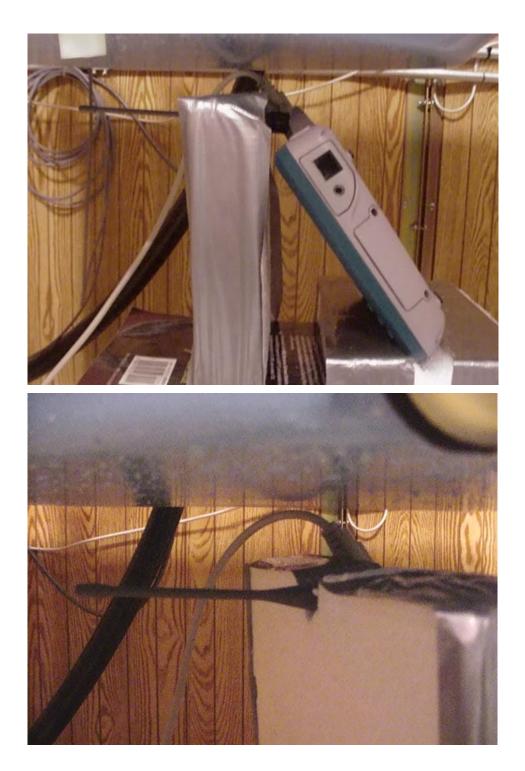
### **Conversion Factor Assessment**



#### APPENDIX "D" – TEST SETUP PHOTOGRAPHS

CELLTECH RESEARCH INC. 1955 Moss Court, Kelowna B.C. CANADA V1Y 9L3

#### SAR TEST SETUP PHOTOGRAPHS



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