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RESEARCH IN MOTION		
Author Data	Dates of Test	Test Report No
Daoud S. Attayi	My 13-15, 2002	RIM-0205-03
Approved	Rev	FCC ID:
		L6AR6220GW

APPENDIX D: PROBE CALIBRATION



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Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland, Phone +41 1 245 97 00, Fax +41 1 245 97 79

Calibration Certificate

Dosimetric E-Field Probe

Type:	ET3DV6
Serial Number:	160
Place of Calibration:	Zurien
Date of Calibration:	November 26, 2001
Calibration Interval:	12 monflis

Schmid & Partner Engineering AG hereby certifies, that this device has been calibrated on the date indicated above. The calibration was performed in accordance with specifications and procedures of Schmid & Partner Engineering AG.

Wherever applicable, the standards used in the calibration process are traceable to international standards. In all other cases the standards of the Laboratory for EMF and Microwave Electronics at the Swiss Federal Institute of Technology (ETH) in Zurich, Switzerland have been applied.

Calibrated by:

Approved by:

Marija Katorija



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Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland, Telephone +41 1 245 97 00, Fax +41 1 245 97 79

Probe ET3DV6

SN:1642

Manufactured:

November 7, 2001

Calibrated: November 26, 2001

Calibrated for System DASY3



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DASY3 - Parameters of Probe: ET3DV6 SN:1642

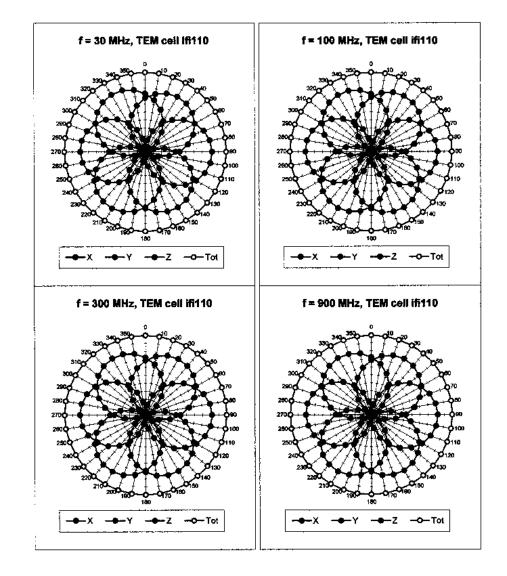
Sensit	ivity in Free	e Space		Diode Compress	ЮП
	NormX	1.63	μ V/(V/m) ²	DCP X	100 m\
	NormY	1.86	μ V/(V/m) ²	DCP Y	100 m\
	NormZ	1.61	μ V/(V/m) ²	DCP Z	100 m\
Sensit	tivity in Tiss	sue Simu	lating Liquid		
Head	450	MHz	6, = 43.5 ± 5%	σ = 0.87 ± 10%	mho/m
	ÇonvF X	7.18	extrapolated	Boundary e	ffect:
	ConvF Y	7.18	extrapolated	Alpha	0.48
	ConvF Z	7.18	extrapolated	Depth	1.90
Head	800 - 1000	MHz	_€ = 39.0 - 43.6	5	mho/m
	ConvF X	6.59	± 9.5% (k=2)	Boundary e	ffect:
	ConvF Y	6.59	± 9.5% (k=2)	Alpha	0.50
	ConvF Z	6.59	± 9.5% (k=2)	Depth	2.00
Head	1500	MHz	s, = 40.4 ± 5%	σ= 1.23 ± 10%	mho/m
	ConvF X	5.80	interpolated	Boundary e	ffect:
	ConvF Y	5.80	interpolated	Alpha	0.53
	ConvF Z	5.80	interpolated	Depth	2.13
Head	1700 - 1910) MHz	ε _τ = 39.5 - 41.0	σ = 1.20 - 1.55	mho/m
	ConvF X	5.41	± 9.5% (k=2)	Boundary e	ffect:
	ConvF Y	5.41	± 9.5% (k=2)	Alpha	0.54
	ConvF Z	5.41	± 9.5% (k=2)	Depth	2.19

Probe Tip to Sensor Center 2.7 mm Optical Surface Detection 1.0 \pm 0.2 mm



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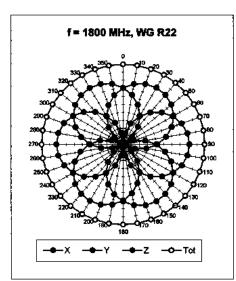
Receiving Pattern (ϕ), θ = 0°

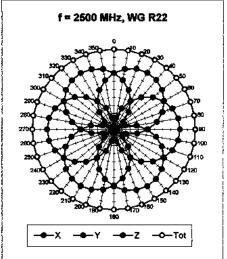




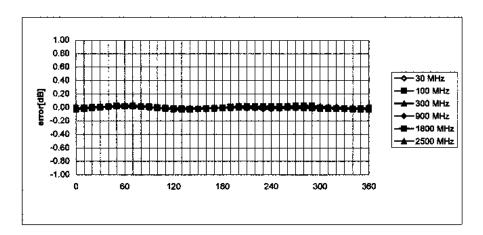
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ET3DV6 \$N:1642





Isotropy Error (ϕ), $\theta = 0^{\circ}$

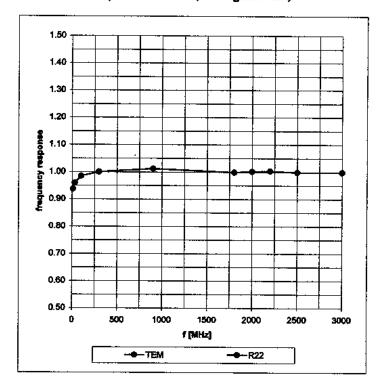




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Frequency Response of E-Field

(TEM-Cell:ifi110, Waveguide R22)

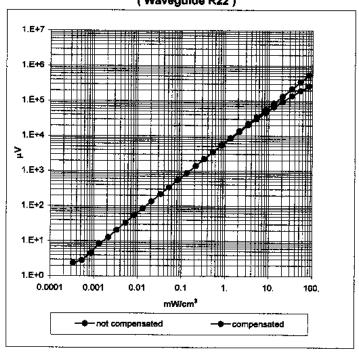


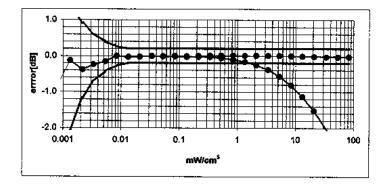


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Dynamic Range f(SAR_{brain})

(Waveguide R22)



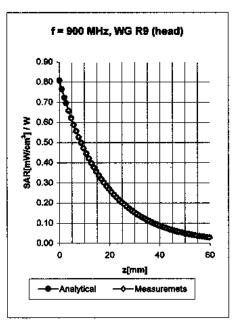


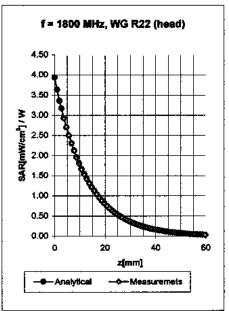
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Conversion Factor Assessment





Head	800 - 1000 MHz		e _r = 39.0 - 43.5	σ = 0.80 - 1.10 mho/m	
	ConvF X	6.59	± 9.5% (k=2)	Boundary effect:	
	ConvF Y	6.59	± 9.5% (k=2)	Alpha	0.50
	ConvF Z	6.59	± 9.5% (k=2)	Depth	2.00
Head	1700 - 1910 MHz		ε _τ = 39.5 - 41.0	σ = 1.20 - 1.55 mho/m	
	ConvF X	5.41	± 9.5% (k=2)	Boundary effect:	
	ConvF Y	5.41	± 9.5% (k=2)	Ałpha	0.54
	ConvF Z		± 9.5% (k=2)	Depth	2,19

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Deviation from Isotropy in HSL

Error (θ,φ), f = 900 MHz

