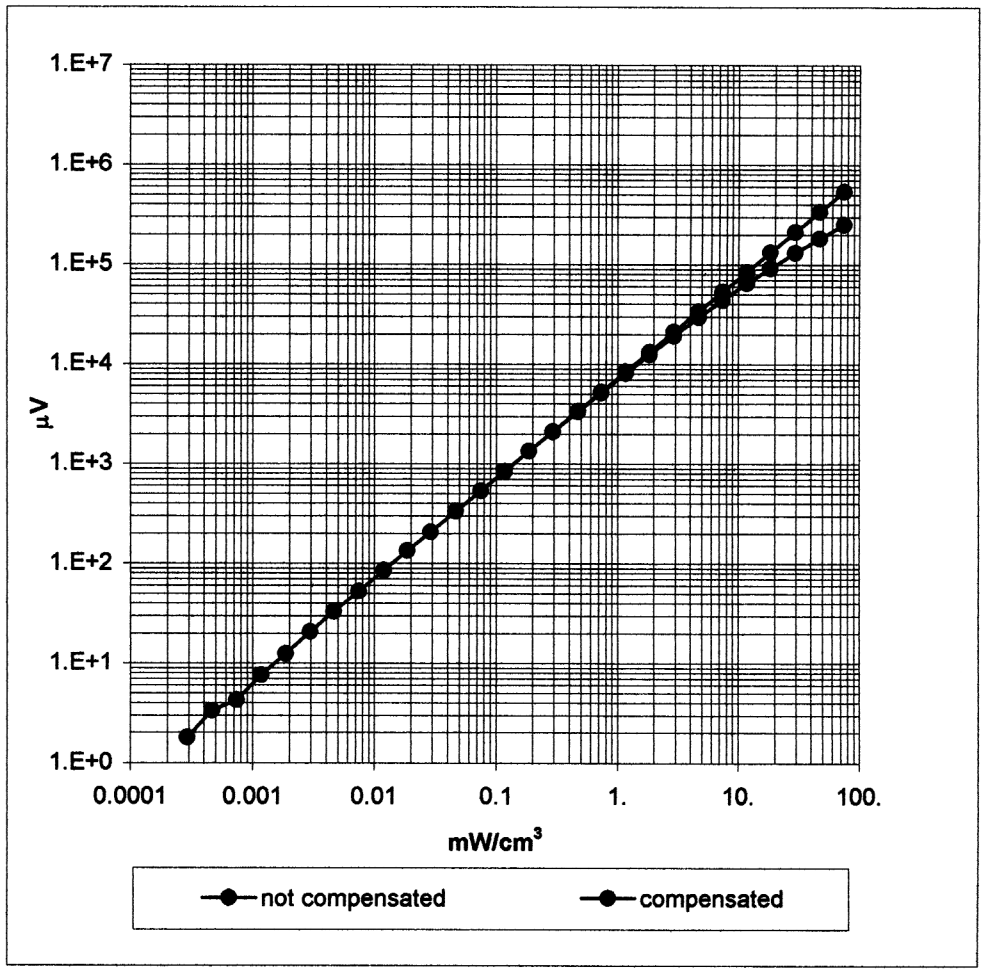
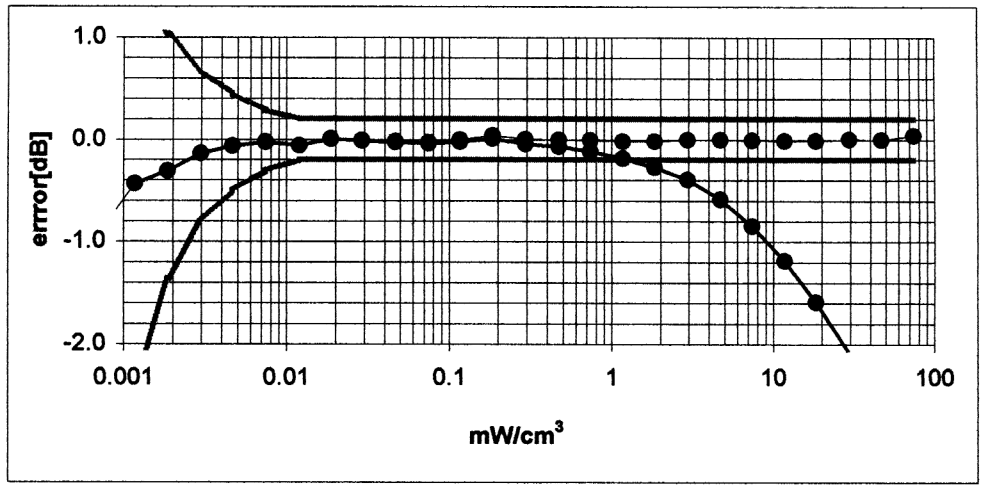
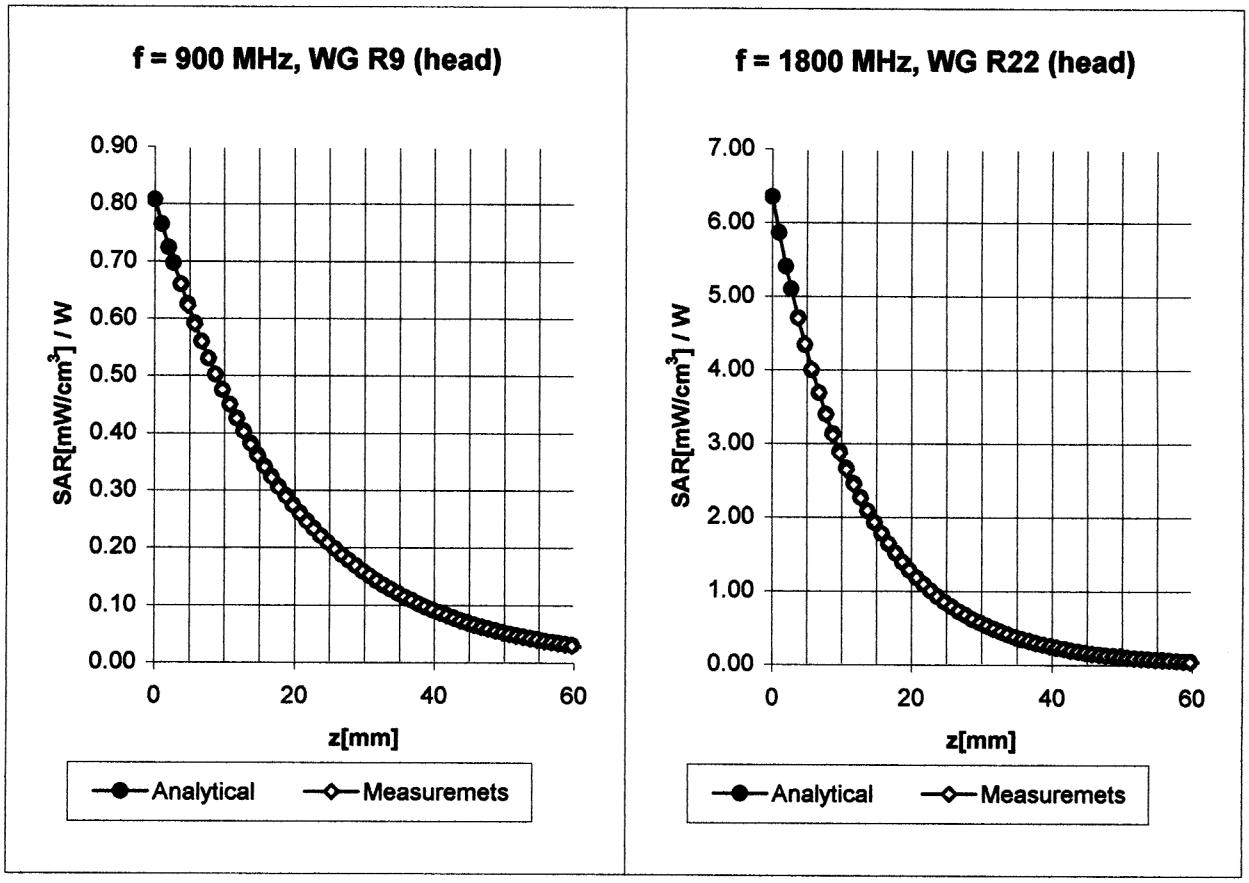
Dynamic Range f(SAR_{brain})

(TEM-Cell:ifi110)





Conversion Factor Assessment



Head **900 MHz** ε_r **= 42 ± 5%** σ **= 0.97 ± 10% mho/m**

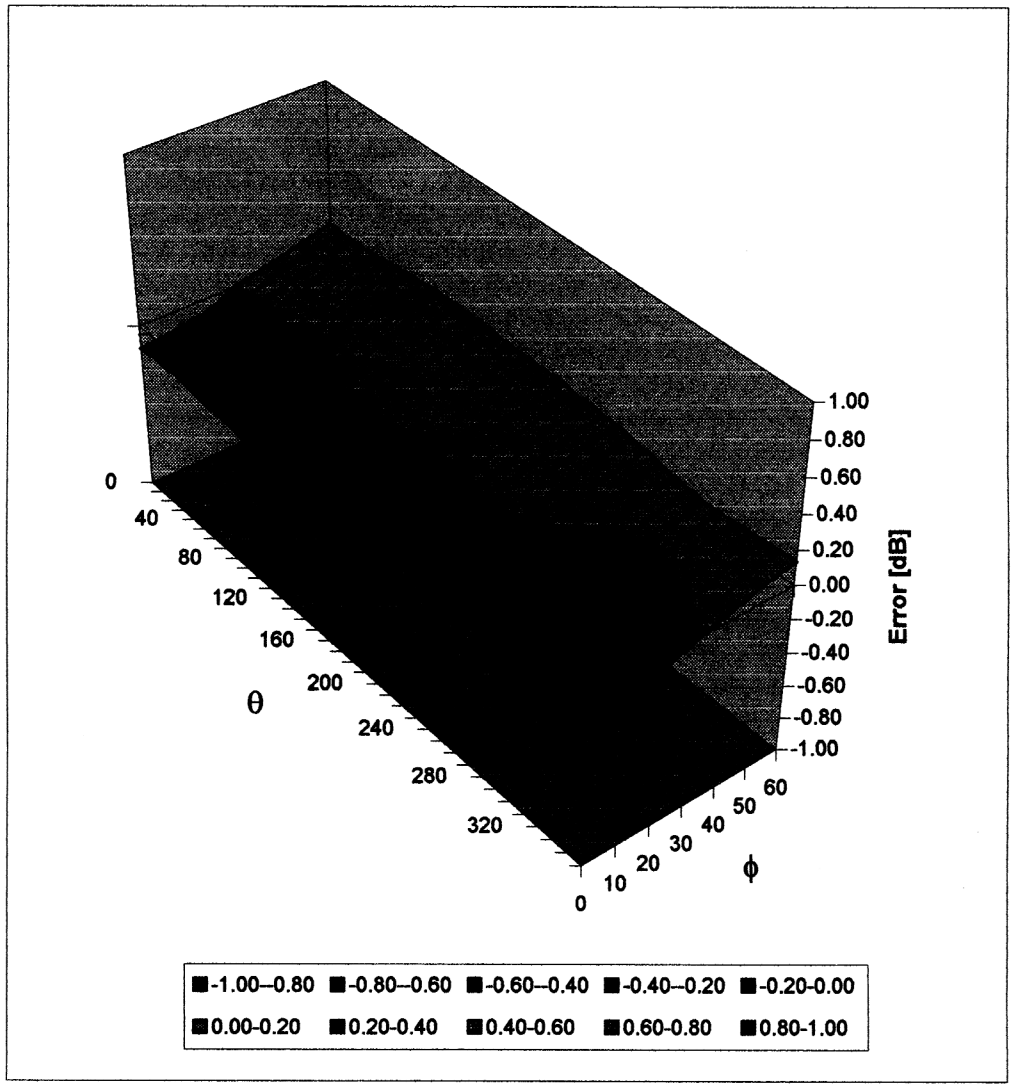
ConvF X	**6.93** ± 7% (k=2)	Boundary effect:	
ConvF Y	**6.93** ± 7% (k=2)	Alpha	**0.34**
ConvF Z	**6.93** ± 7% (k=2)	Depth	**2.74**

Head **1800 MHz** ε_r **= 40 ± 5%** σ **= 1.40 ± 10% mho/m**

ConvF X	**5.92** ± 7% (k=2)	Boundary effect:	
ConvF Y	**5.92** ± 7% (k=2)	Alpha	**0.49**
ConvF Z	**5.92** ± 7% (k=2)	Depth	**2.13**

Deviation from Isotropy in HSL

Error (θ,φ), f = 900 MHz



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Additional Conversion Factors

for Dosimetric E-Field Probe

Type:	**ET3DV6**
Serial Number:	**1577**
Place of Assessment:	**Zurich**
Date of Assessment:	**October 11, 2001**
Probe Calibration Date:	**April 20, 2001**

Schmid & Partner Engineering AG hereby certifies that conversion factor(s) of this probe have been evaluated on the date indicated above. The assessment was performed using the FDTD numerical code SEMCAD of Schmid & Partner Engineering AG. Since the evaluation is coupled with measured conversion factors, it has to be recalculated yearly, i.e., following the re-calibration schedule of the probe. The uncertainty of the numerical assessment is based on the extrapolation from measured value at 900 MHz or at 1800 MHz.

Assessed by: Jelenić Katja

Dosimetric E-Field Probe ET3DV6 SN:1577

Conversion factor (± standard deviation)

450 MHz	ConvF	**8.0 ± 8%**	ε_r = **56.7 ±5%** σ = **0.94 ±5% mho/m** Muscle tissue
2450 MHz	ConvF	**4.4 ± 10%**	ε_r = **52.7 ±5%** σ = **1.95 ±5% mho/m** Muscle tissue
2450 MHz	ConvF	**4.9 ± 10%**	ε_r = **39.2 ±5%** σ = **1.80 ±5% mho/m** Head tissue

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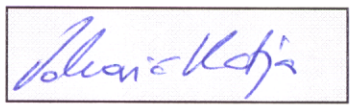
Additional Conversion Factors

for Dosimetric E-Field Probe

Type:	**ET3DV6**
Serial Number:	**1577**
Place of Assessment:	**Zurich**
Date of Assessment:	**August 23, 2001**
Probe Calibration Date:	**April 20, 2001**

Schmid & Partner Engineering AG hereby certifies that conversion factor(s) of this probe have been evaluated on the date indicated above. The assessment was performed using the FDTD numerical code SEMCAD of Schmid & Partner Engineering AG. Since the evaluation is coupled with measured conversion factors, it has to be recalculated yearly, i.e., following the re-calibration schedule of the probe. The uncertainty of the numerical assessment is based on the extrapolation from measured value at 900 MHz or at 1800 MHz.

Approved by:



Dosimetric E-Field Probe ET3DV6 SN:1577

Conversion factor (± standard deviation)

900 MHz	ConvF	**6.6 ± 8%**	ε_r = **56.5 ± 5%** σ = **0.99 ± 10% mho/m** Muscle tissue
1800 MHz	ConvF	**5.4 ± 8%**	ε_r = **54.6 ± 5%** σ = **1.39 ± 10% mho/m** Muscle tissue