

Test Laboratory: Compliance Certification Services Inc.

Touch-b mode

DUT: Tablet PC; Type: CA27; Serial: N/A

Communication System: IEEE 802.11b; Frequency: 2472 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 50.9$; $\rho = 1000$ kg/m³

Air Temperature: 24.5 deg C; Liquid Temperature: 23.5 deg C

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3023; ConvF(4.1, 4.1, 4.1); Calibrated: 9/23/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 3/15/2004
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

CH=11 11M 2/Area Scan (7x8x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 4.14 V/m; Power Drift = 0.2 dB

Maximum value of SAR (measured) = 0.072 mW/g

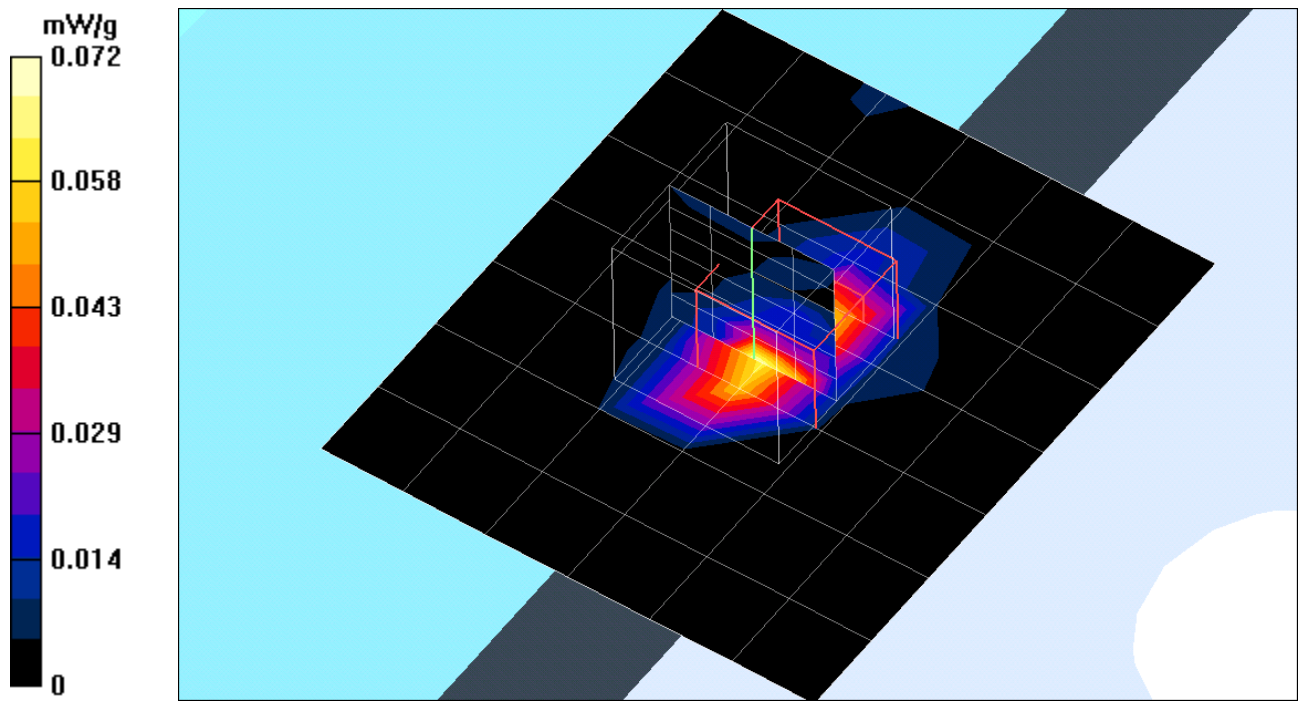
CH=11 11M 2/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 4.14 V/m; Power Drift = 0.2 dB

Maximum value of SAR (measured) = 0.069 mW/g

Peak SAR (extrapolated) = 5.56 W/kg

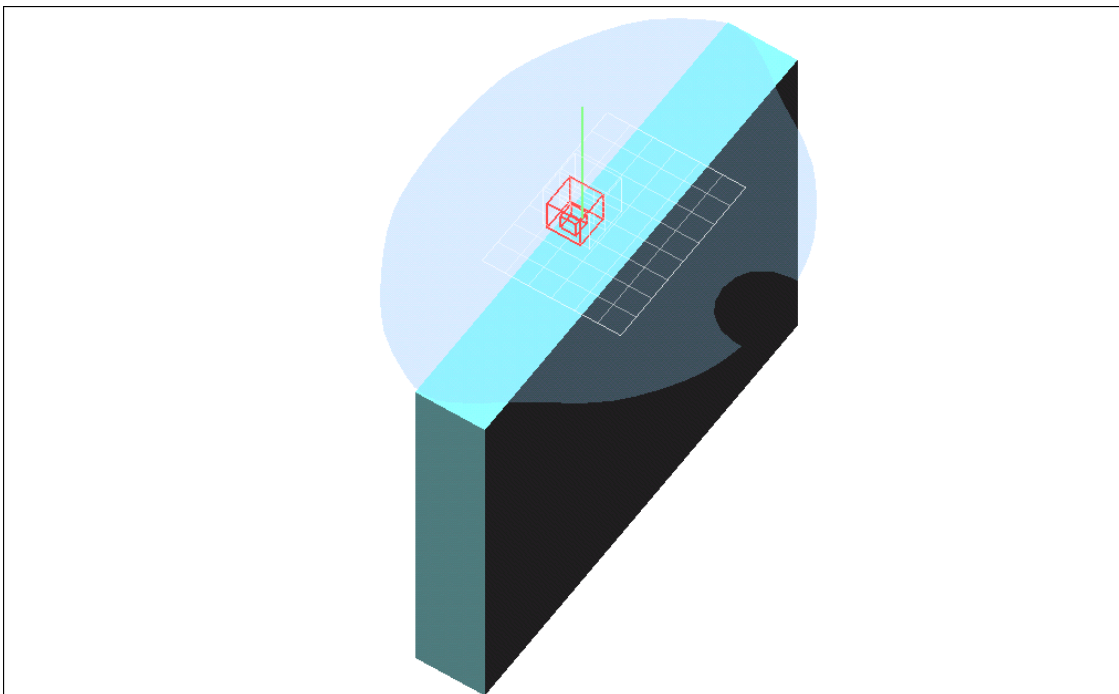
SAR(1 g) = 0.110 mW/g; SAR(10 g) = 0.028 mW/g



Test Laboratory: Compliance Certification Services Inc.

15mm-b mode

Test Configuration 2



Test Laboratory: Compliance Certification Services Inc.

15mm-b mode

DUT: Tablet PC; Type: CA27; Serial: N/A

Communication System: IEEE 802.11b; Frequency: 2412 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2412$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 50.9$; $\rho = 1000$ kg/m³

Air Temperature: 24.5 deg C; Liquid Temperature: 23.5 deg C

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3023; ConvF(4.1, 4.1, 4.1); Calibrated: 9/23/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 3/15/2004
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

CH=Low 11M/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 3.74 V/m; Power Drift = 0.2 dB

Maximum value of SAR (measured) = 0.060 mW/g

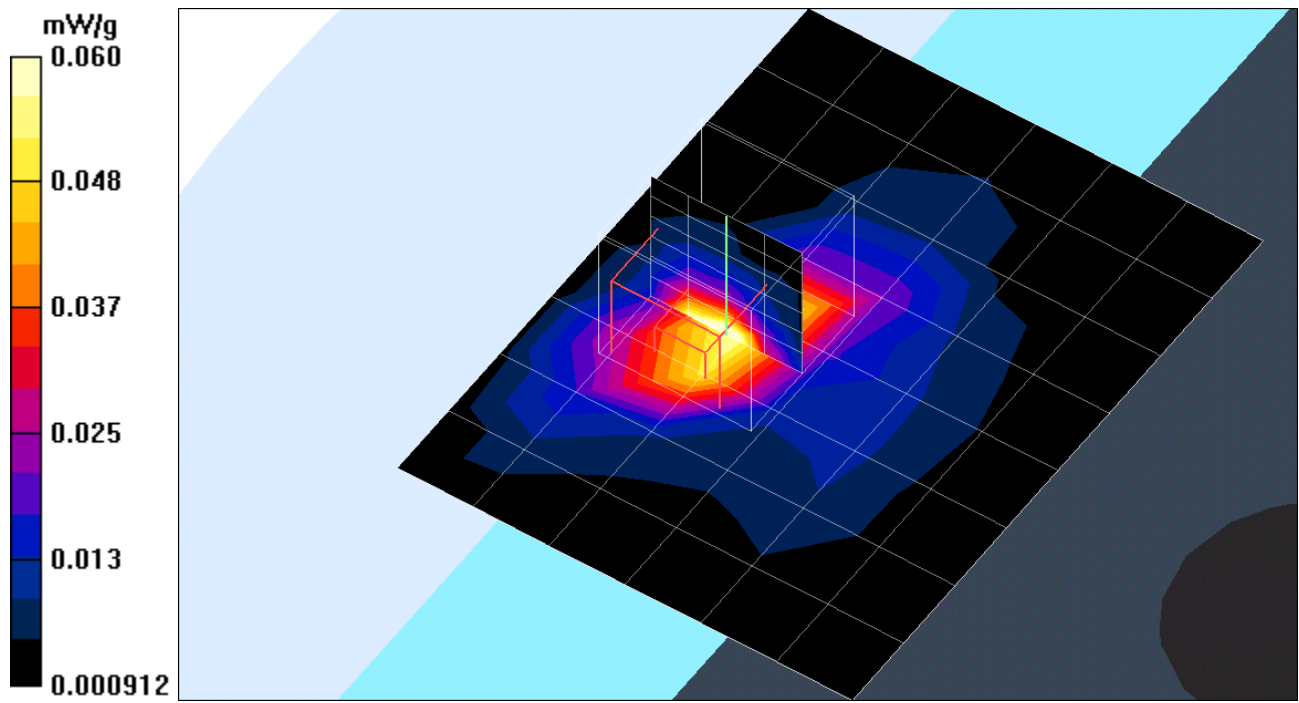
CH=Low 11M/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 3.74 V/m; Power Drift = 0.2 dB

Maximum value of SAR (measured) = 0.075 mW/g

Peak SAR (extrapolated) = 0.202 W/kg

SAR(1 g) = 0.070 mW/g; SAR(10 g) = 0.031 mW/g



Test Laboratory: Compliance Certification Services Inc.

15mm-b mode

DUT: Tablet PC; Type: CA27; Serial: N/A

Communication System: IEEE 802.11b; Frequency: 2437 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2437$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 50.9$; $\rho = 1000$ kg/m³

Air Temperature: 24.5 deg C; Liquid Temperature: 23.5 deg C

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3023; ConvF(4.1, 4.1, 4.1); Calibrated: 9/23/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 3/15/2004
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

CH=Mid 11M/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 2.98 V/m; Power Drift = -0.0 dB

Maximum value of SAR (measured) = 0.040 mW/g

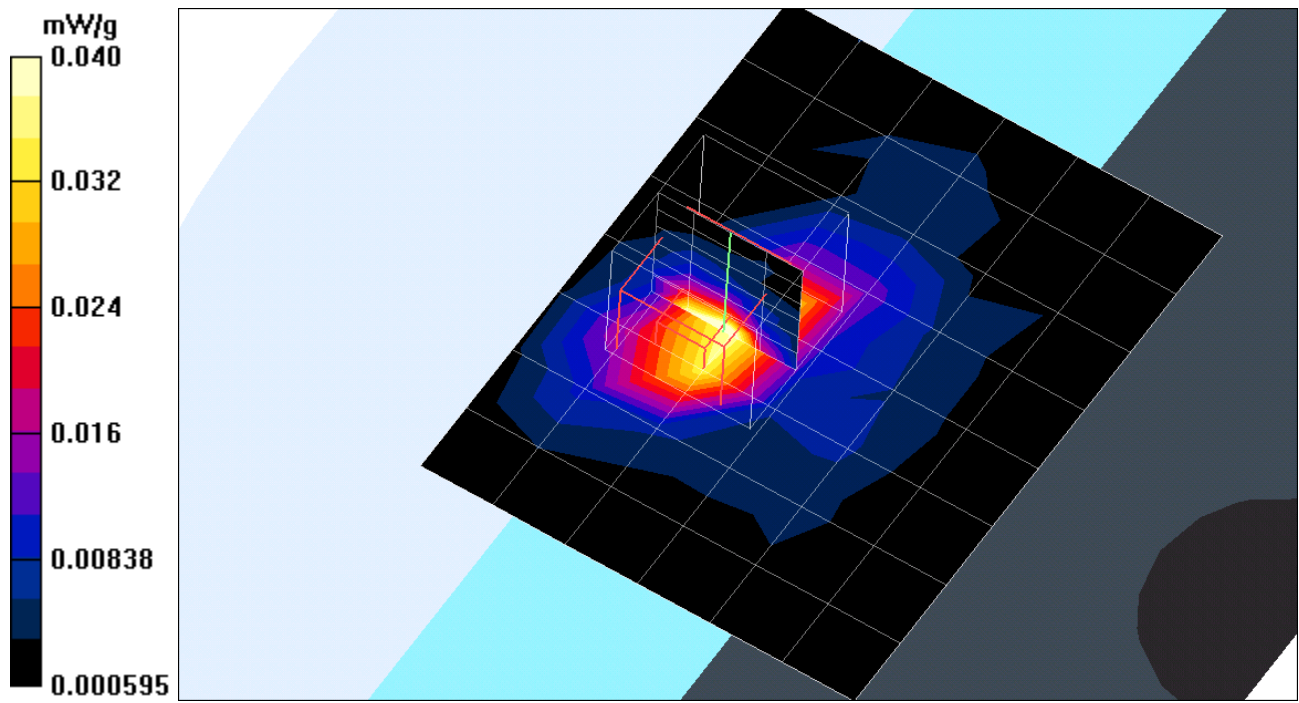
CH=Mid 11M/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 2.98 V/m; Power Drift = -0.0 dB

Maximum value of SAR (measured) = 0.050 mW/g

Peak SAR (extrapolated) = 0.078 W/kg

SAR(1 g) = 0.043 mW/g; SAR(10 g) = 0.019 mW/g



Test Laboratory: Compliance Certification Services Inc.

15mm-b mode

DUT: Tablet PC; Type: CA27; Serial: N/A

Communication System: IEEE 802.11b; Frequency: 2462 MHz; Duty Cycle: 1:1

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.94$ mho/m; $\epsilon_r = 50.9$; $\rho = 1000$ kg/m³

Air Temperature: 24.5 deg C; Liquid Temperature: 23.5 deg C

Phantom section: Flat Section

DASY4 Configuration:

- Probe: ES3DV2 - SN3023; ConvF(4.1, 4.1, 4.1); Calibrated: 9/23/2003
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn427; Calibrated: 3/15/2004
- Phantom: SAM 34; Type: SAM V4.0; Serial: TP-1150
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

CH=High 11M/Area Scan (7x9x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 2.05 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 0.020 mW/g

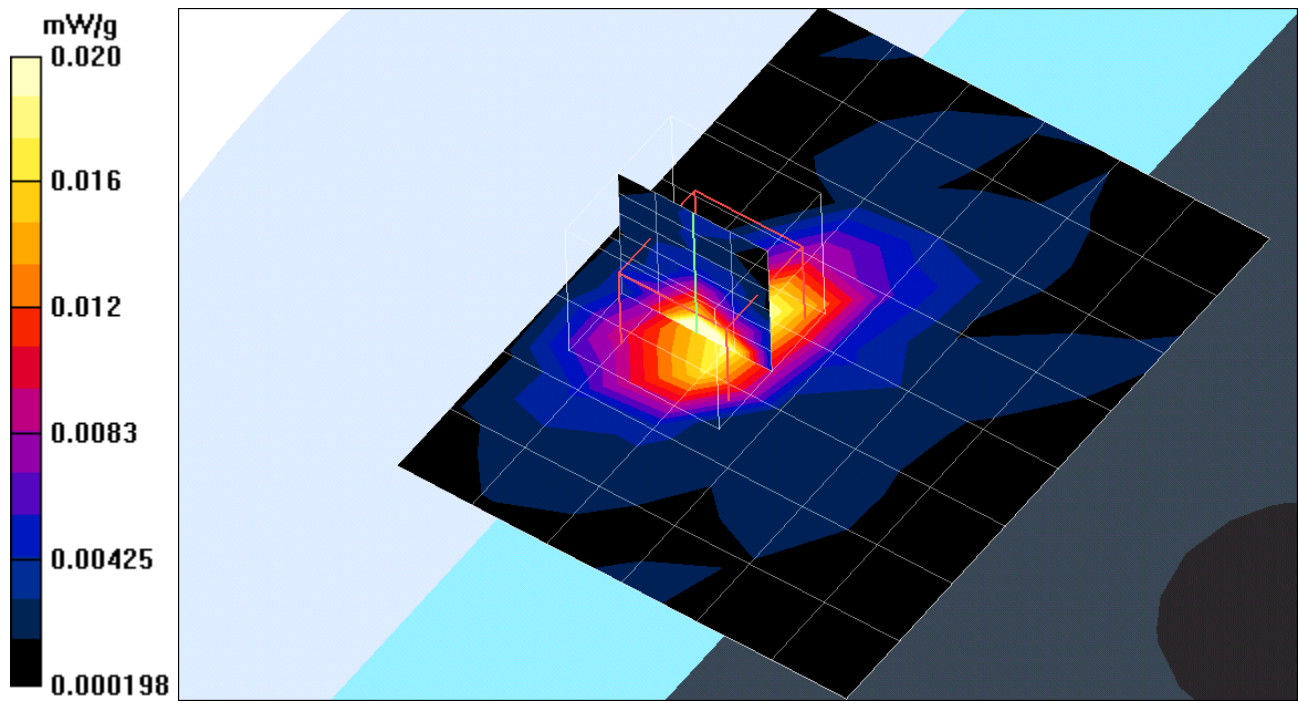
CH=High 11M/Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=7.5mm, dy=7.5mm, dz=5mm

Reference Value = 2.05 V/m; Power Drift = -0.1 dB

Maximum value of SAR (measured) = 0.028 mW/g

Peak SAR (extrapolated) = 3.78 W/kg

SAR(1 g) = 0.041 mW/g; SAR(10 g) = 0.013 mW/g



Client **C&C (Auden)**

CALIBRATION CERTIFICATE

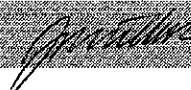

Object(s) **D2450V2 - SN.728**
 Calibration procedure(s) **QA CAL-05 v2
 Calibration procedure for dipole validation kits**
 Calibration date: **March 23, 2004**
 Condition of the calibrated item **In Tolerance (according to the specific calibration document)**

This calibration statement documents traceability of M&TE used in the calibration procedures and conformity of the procedures with the ISO/IEC 17025 international standard.

All calibrations have been conducted in the closed laboratory facility: environment temperature 22 +/- 2 degrees Celsius and humidity < 75%.

Calibration Equipment used (M&TE critical for calibration)

Model Type	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter EPM E442	GB37480704	6-Nov-03 (METAS, No. 252-0254)	Nov-04
Power sensor HP 8481A	US37292783	6-Nov-03 (METAS, No. 252-0254)	Nov-04
Power sensor HP 8481A	MY41092317	18-Oct-02 (Agilent, No. 20021018)	Oct-04
RF generator R&S SML-03	100698	27-Mar-2002 (R&S, No. 20-92389)	In house check: Mar-05
Network Analyzer HP 8753E	US37390585	18-Oct-01 (SPEAG, in house check Nov-03)	in house check: Oct 05

	Name	Function	Signature
Calibrated by:	Judith Mueller	Technician	
Approved by:	Katja Pokovic	Laboratory Director	

Date issued: March 23, 2004

This calibration certificate is issued as an intermediate solution until the accreditation process (based on ISO/IEC 17025 International Standard) for Calibration Laboratory of Schmid & Partner Engineering AG is completed.

DASY

Dipole Validation Kit

Type: D2450V2

Serial: 728

Manufactured: January 9, 2003

Calibrated: March 23, 2004

1. Measurement Conditions

The measurements were performed in the flat section of the SAM twin phantom filled with **head simulating solution** of the following electrical parameters at 2450 MHz:

Relative Dielectricity	37.6	$\pm 5\%$
Conductivity	1.88 mho/m	$\pm 5\%$

The DASY4 System with a dosimetric E-field probe ES3DV2 (SN:3013, Conversion factor 4.8 at 2450 MHz) was used for the measurements.

The dipole was mounted on the small tripod so that the dipole feedpoint was positioned below the center marking of the flat phantom section and the dipole was oriented parallel to the body axis (the long side of the phantom). The standard measuring distance was 10mm from dipole center to the solution surface. Lossless spacer was used during measurements for accurate distance positioning.

The coarse grid with a grid spacing of 15mm was aligned with the dipole. The 7x7x7 fine cube was chosen for cube integration.

The dipole input power (forward power) was 250mW $\pm 3\%$. The results are normalized to 1W input power.

2. SAR Measurement with DASY4 System

Standard SAR-measurements were performed according to the measurement conditions described in section 1. The results (see figure supplied) have been normalized to a dipole input power of 1W (forward power). The resulting averaged SAR-values measured with the dosimetric probe ES3DV2 SN:3013 and applying the advanced extrapolation are:

averaged over 1 cm³ (1 g) of tissue: **58.4 mW/g $\pm 16.8\%$ (k=2)¹**

averaged over 10 cm³ (10 g) of tissue: **26.4 mW/g $\pm 16.2\%$ (k=2)¹**

¹ validation uncertainty

5. SAR Measurement with DASY4 System

Standard SAR-measurements were performed according to the measurement conditions described in section 4. The results (see figure supplied) have been normalized to a dipole input power of 1 W (forward power). The resulting averaged SAR-values measured with the dosimetric probe ES3DV2 SN:3013 and applying the advanced extrapolation are:

averaged over 1 cm ³ (1 g) of tissue:	53.6 mW/g ± 16.8 % (k=2)²
averaged over 10 cm ³ (10 g) of tissue:	25 mW/g ± 16.2 % (k=2)²

6. Dipole Impedance and Return Loss

The dipole was positioned at the flat phantom sections according to section 4 and the distance spacer was in place during impedance measurements.

Feedpoint impedance at 2450 MHz:	Re{Z} = 48.6 Ω
	Im {Z} = 5.8 Ω
Return Loss at 2450 MHz	-24.4 dB

7. Handling

Do not apply excessive force to the dipole arms, because they might bend. Bending of the dipole arms stresses the soldered connections near the feedpoint leading to a damage of the dipole.

8. Design

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals.

Small end caps have been added to the dipole arms in order to improve matching when loaded according to the position as explained in Sections 1 and 4. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

9. Power Test

After long term use with 40 W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

² validation uncertainty

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN728

Communication System: CW-2450; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: HSL 2450 MHz;

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.88$ mho/m; $\epsilon_r = 37.6$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3013; ConvF(4.8, 4.8, 4.8); Calibrated: 1/23/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn411; Calibrated: 11/6/2003
- Phantom: SAM with CRP - TP1006; Type: SAM 4.0; Serial: TP:1006;
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Pin = 250 mW; d = 10 mm/Area Scan (81x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 92.8 V/m; Power Drift = 0.0 dB

Maximum value of SAR (interpolated) = 17 mW/g

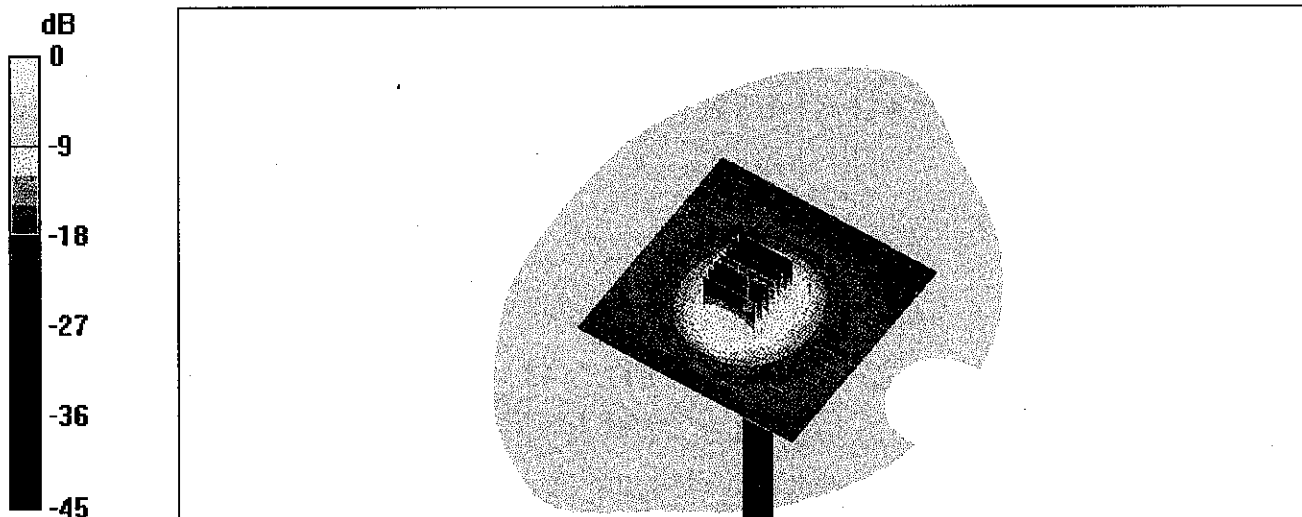
Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 92.8 V/m; Power Drift = 0.0 dB

Maximum value of SAR (measured) = 16.3 mW/g

Peak SAR (extrapolated) = 32.2 W/kg

SAR(1 g) = 14.6 mW/g; SAR(10 g) = 6.59 mW/g



0 dB = 16.3mW/g

19 Mar 2004 14:34:03

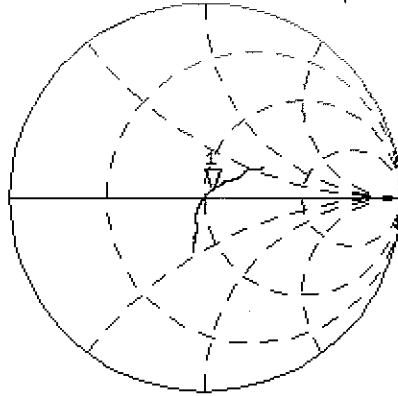
CH1 S11 1 U FS 1: 53.010 Ω 3.4844 Ω 226.35 pF 2 450.000 000 MHz

De1

Cor

Avg
16

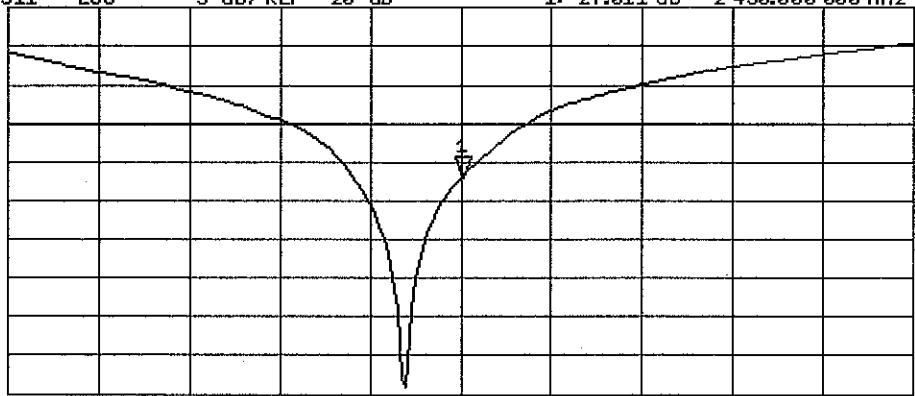
↑



CH2 S11 LOG 5 dB/REF -20 dB 1:-27.011 dB 2 450.000 000 MHz

Cor

↑



CENTER 2 450.000 000 MHz

SPAN 400.000 000 MHz

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN728

Communication System: CW-2450; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: Muscle 2450 MHz;

Medium parameters used: $f = 2450$ MHz; $\sigma = 2$ mho/m; $\epsilon_r = 52$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ES3DV2 - SN3013; ConvF(4.02, 4.02, 4.02); Calibrated: 1/23/2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE3 Sn411; Calibrated: 11/6/2003
- Phantom: SAM with CRP - TP1006; Type: SAM 4.0; Serial: TP:1006;
- Measurement SW: DASY4, V4.2 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 112

Pin = 250 mW; d = 10 mm/Area Scan (81x81x1): Measurement grid: dx=15mm, dy=15mm

Reference Value = 87.5 V/m; Power Drift = 0.0 dB

Maximum value of SAR (interpolated) = 16.2 mW/g

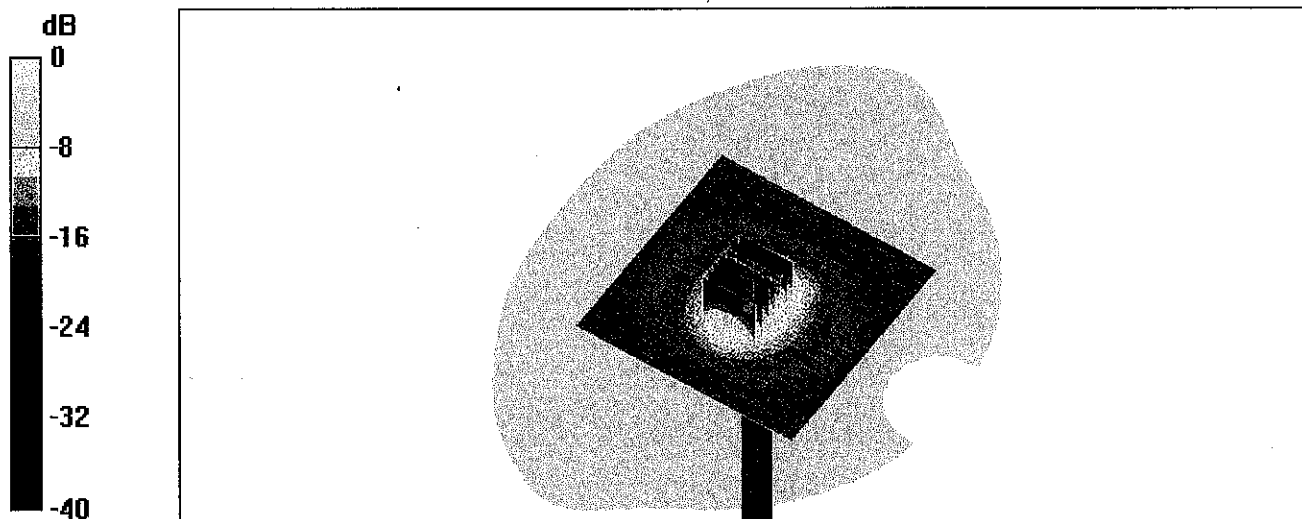
Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 87.5 V/m; Power Drift = 0.0 dB

Maximum value of SAR (measured) = 15.2 mW/g

Peak SAR (extrapolated) = 26.8 W/kg

SAR(1 g) = 13.4 mW/g; SAR(10 g) = 6.25 mW/g



0 dB = 15.2mW/g

728
Body

23 Mar 2004 11:03:46

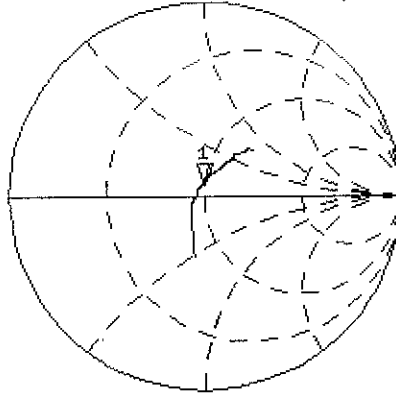
CH1 S11 1 U FS 1: 48.633 Ω 5.7988 Ω 375.70 pH 2 450.000 000 MHz

De1

Cor

Avg
16

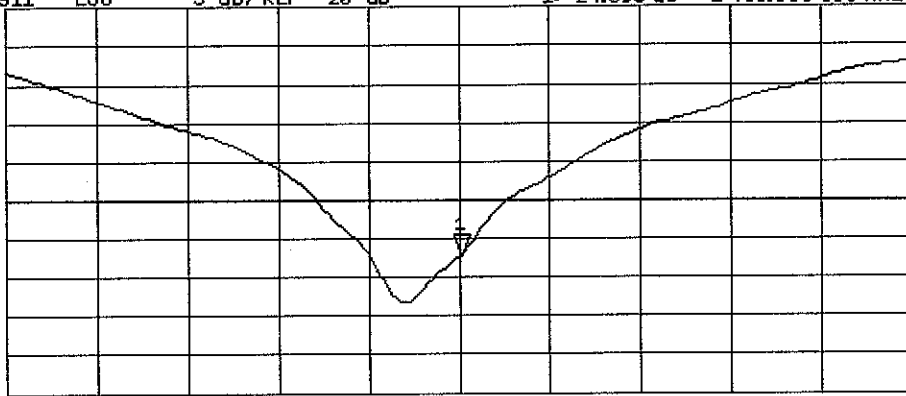
↑



CH2 S11 LOG 3 dB/REF -20 dB 1:-24.393 dB 2 450.000 000 MHz

Cor

↑



CENTER 2 450.000 000 MHz

SPAN 400.000 000 MHz

Client **C&C Taiwan (Auden)**

CALIBRATION CERTIFICATE

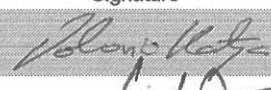
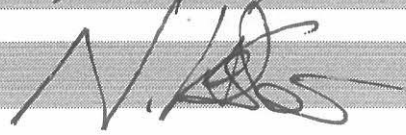
Object(s) **ES3DV2 - SN: 3023**
 Calibration procedure(s) **QA CAL-01 v2**
Calibration procedure for dosimetric E-field probes
 Calibration date: **September 23, 2003**
 Condition of the calibrated item **In Tolerance (according to the specific calibration document)**

This calibration statement documents traceability of M&TE used in the calibration procedures and conformity of the procedures with the ISO/IEC 17025 international standard.

All calibrations have been conducted in the closed laboratory facility: environment temperature 22 +/- 2 degrees Celsius and humidity < 75%.

Calibration Equipment used (M&TE critical for calibration)

Model Type	ID #	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
Power meter EPM E4419B	GB41293874	2-Apr-03 (METAS, No 252-0250)	Apr-04
Power sensor E4412A	MY41495277	2-Apr-03 (METAS, No 252-0250)	Apr-04
Reference 20 dB Attenuator	SN: 5086 (20b)	3-Apr-03 (METAS No. 251-0340)	Apr-04
Fluke Process Calibrator Type 702	SN: 6295803	8-Sep-03 (Sintrel SCS No. E-030020)	Sep-04
Power sensor HP 8481A	MY41092180	18-Sep-02 (Agilent, No. 20020918)	In house check: Oct 03
RF generator HP 8684C	US3642U01700	4-Aug-99 (SPEAG, in house check Aug-02)	In house check: Aug-05
Network Analyzer HP 8753E	US37390585	18-Oct-01 (Agilent, No. 24BR1033101)	In house check: Oct 03

	Name	Function	Signature
Calibrated by:	Katja Pokovic	Laboratory Director	
Approved by:	Niels Kuster	Quality Manager	

Date issued: October 5, 2003

This calibration certificate is issued as an intermediate solution until the accreditation process (based on ISO/IEC 17025 International Standard) for Calibration Laboratory of Schmid & Partner Engineering AG is completed.

Probe ES3DV2

SN:3023

Manufactured: April 15, 2003
Last calibration: September 23, 2003

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

DASY - Parameters of Probe: ES3DV2 SN:3023

Sensitivity in Free Space

NormX	0.85 $\mu\text{V}/(\text{V}/\text{m})^2$
NormY	0.94 $\mu\text{V}/(\text{V}/\text{m})^2$
NormZ	1.01 $\mu\text{V}/(\text{V}/\text{m})^2$

Diode Compression

DCP X	96	mV
DCP Y	96	mV
DCP Z	96	mV

Sensitivity in Tissue Simulating Liquid

Head **900 MHz** $\epsilon_r = 41.5 \pm 5\%$ $\sigma = 0.97 \pm 5\% \text{ mho/m}$
 Valid for f=800-1000 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

ConvF X	6.0 $\pm 9.5\%$ (k=2)	Boundary effect:
ConvF Y	6.0 $\pm 9.5\%$ (k=2)	Alpha 0.33
ConvF Z	6.0 $\pm 9.5\%$ (k=2)	Depth 1.66

Head **1800 MHz** $\epsilon_r = 40.0 \pm 5\%$ $\sigma = 1.40 \pm 5\% \text{ mho/m}$
 Valid for f=1710-1910 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

ConvF X	4.9 $\pm 9.5\%$ (k=2)	Boundary effect:
ConvF Y	4.9 $\pm 9.5\%$ (k=2)	Alpha 0.23
ConvF Z	4.9 $\pm 9.5\%$ (k=2)	Depth 2.54

Boundary Effect

Head **900 MHz** Typical SAR gradient: 5 % per mm

Probe Tip to Boundary		1 mm	2 mm
SAR _{be} [%] Without Correction Algorithm		5.8	2.8
SAR _{be} [%] With Correction Algorithm		0.1	0.3

Head **1800 MHz** Typical SAR gradient: 10 % per mm

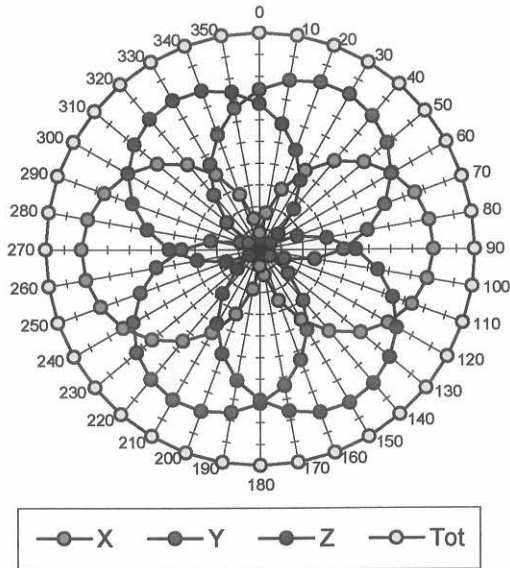
Probe Tip to Boundary		1 mm	2 mm
SAR _{be} [%] Without Correction Algorithm		7.7	4.7
SAR _{be} [%] With Correction Algorithm		0.1	0.3

Sensor Offset

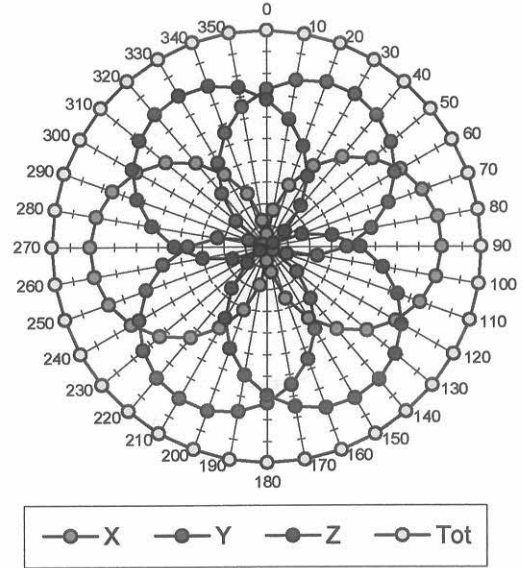
Probe Tip to Sensor Center	2.0	mm
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Receiving Pattern (ϕ , $\theta = 0^\circ$)

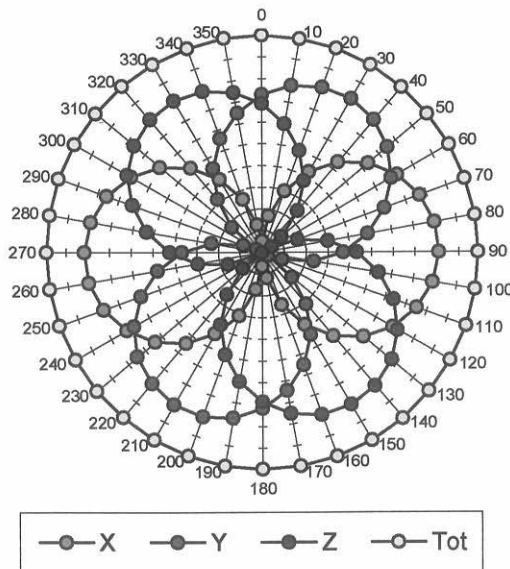
f = 30 MHz, TEM cell ifi110



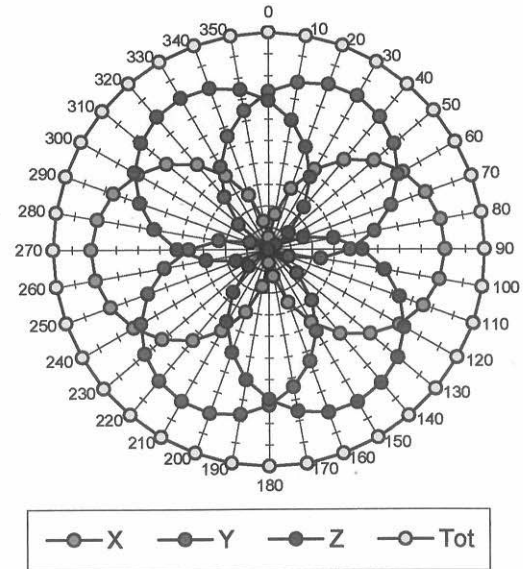
f = 100 MHz, TEM cell ifi110

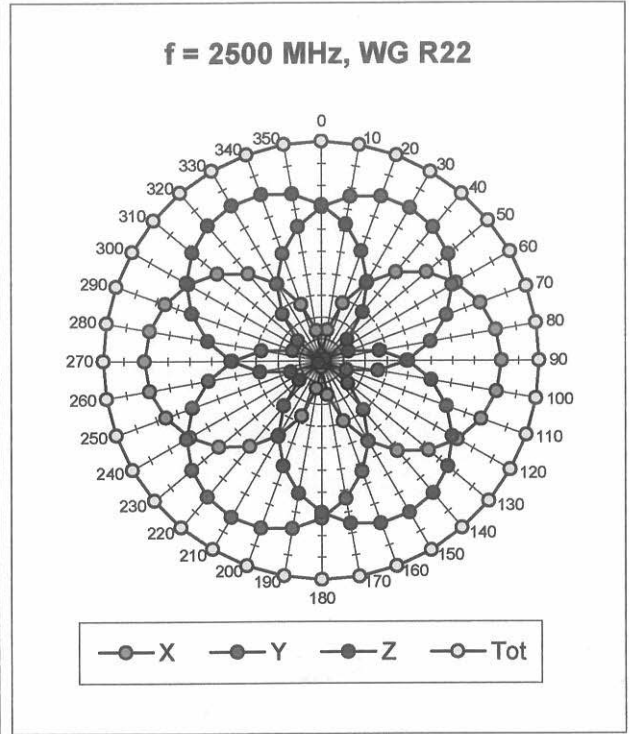
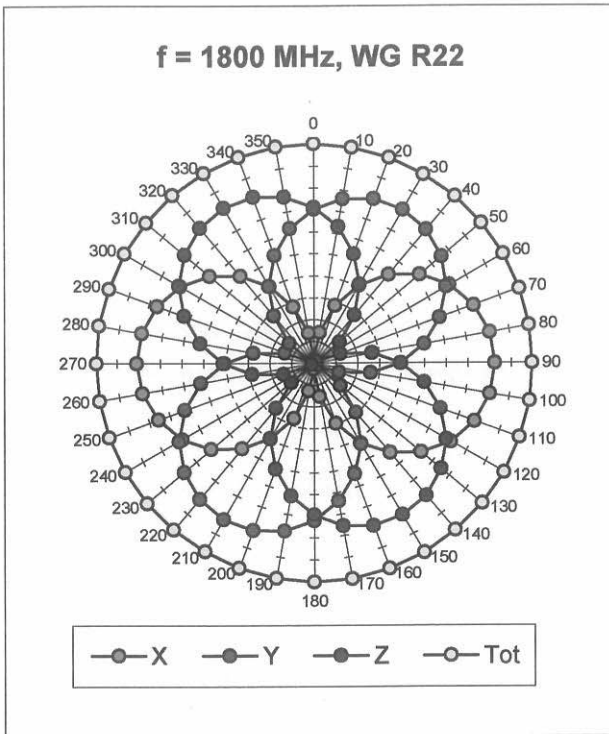


f = 300 MHz, TEM cell ifi110

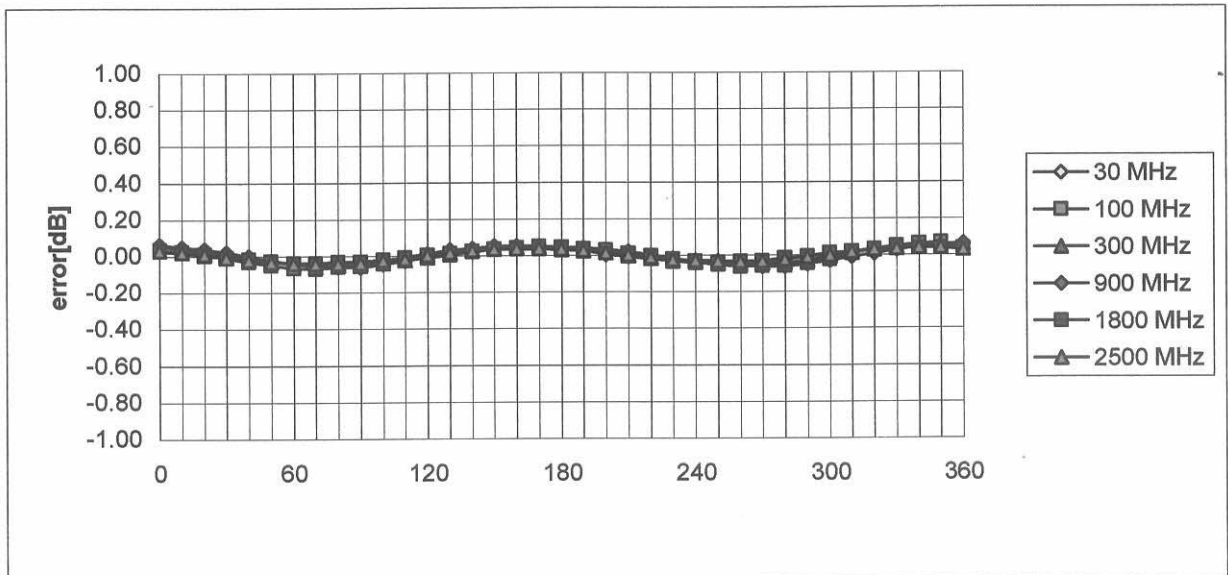


f = 900 MHz, TEM cell ifi110



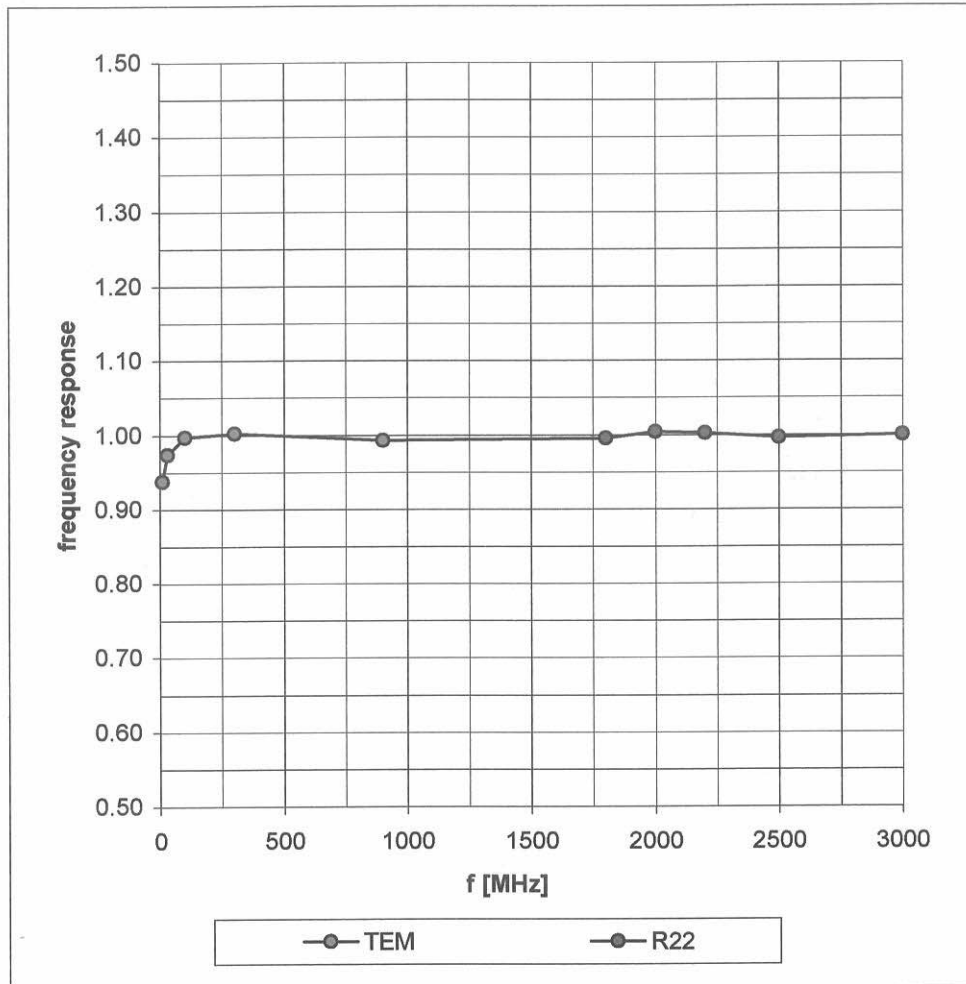


Isotropy Error (ϕ), $\theta = 0^\circ$

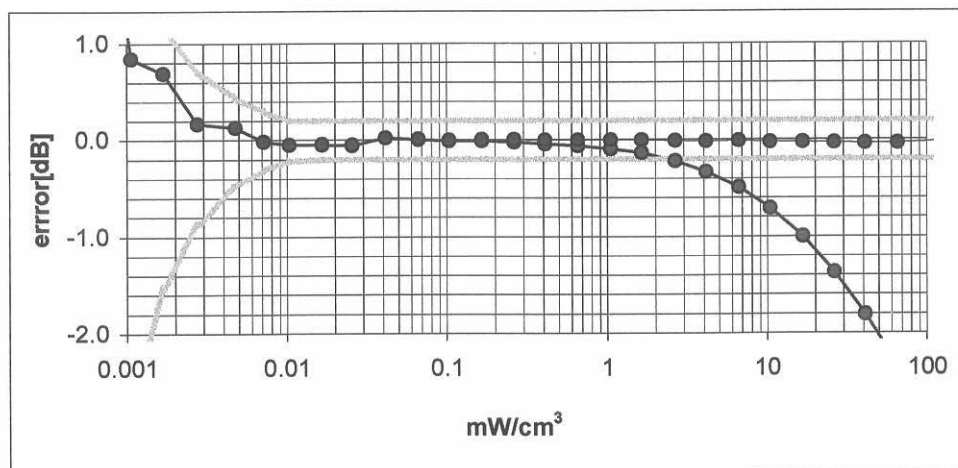
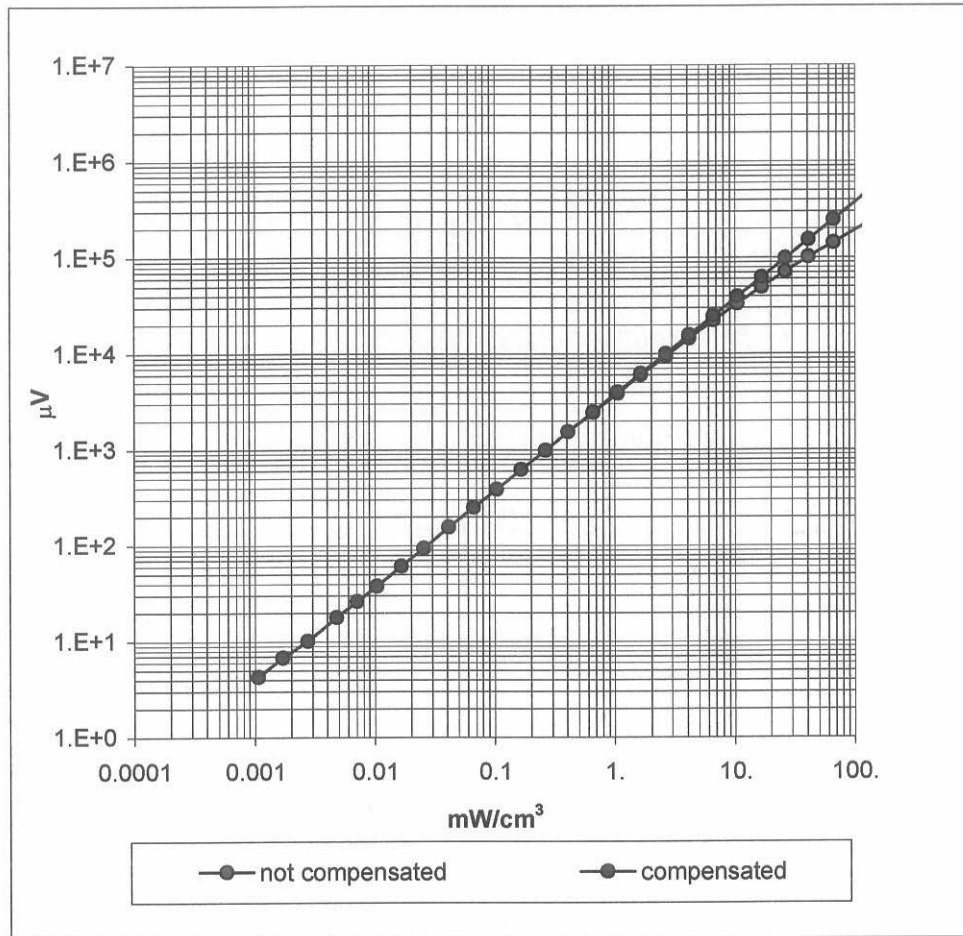


Frequency Response of E-Field

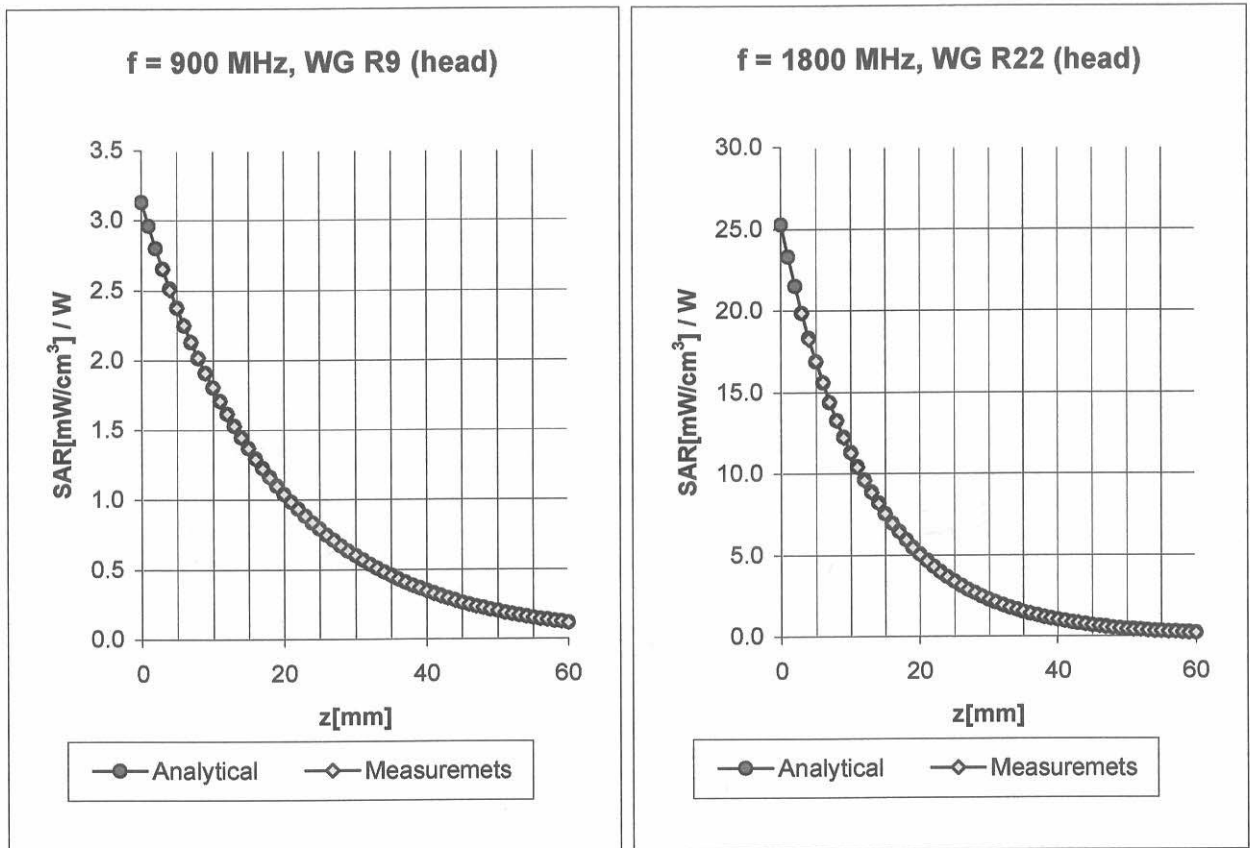
(TEM-Cell:ifi1110, Waveguide R22)



Dynamic Range $f(\text{SAR}_{\text{brain}})$ (Waveguide R22)



Conversion Factor Assessment



Head 900 MHz $\epsilon_r = 41.5 \pm 5\%$ $\sigma = 0.97 \pm 5\%$ mho/m

Valid for f=800-1000 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

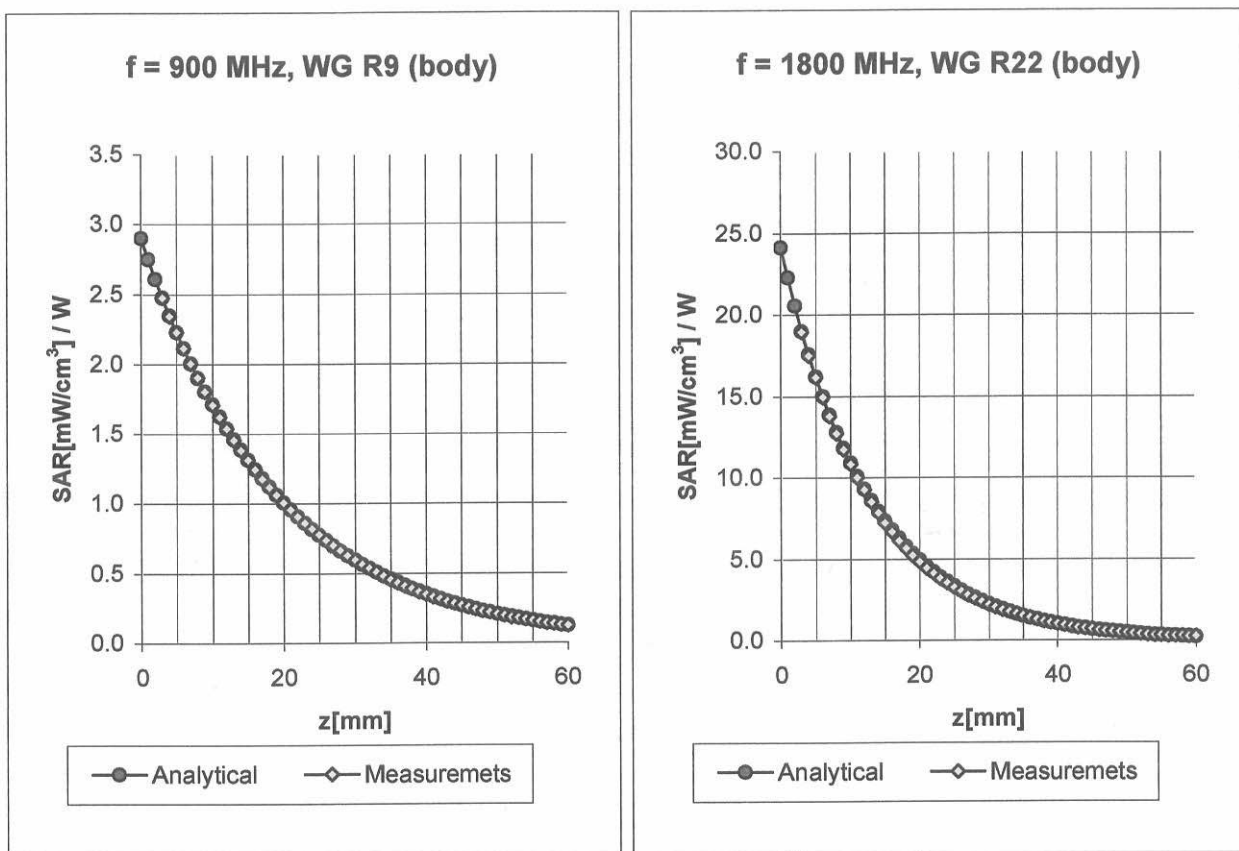
ConvF X	6.0 $\pm 9.5\%$ (k=2)	Boundary effect:	
ConvF Y	6.0 $\pm 9.5\%$ (k=2)	Alpha	0.33
ConvF Z	6.0 $\pm 9.5\%$ (k=2)	Depth	1.66

Head 1800 MHz $\epsilon_r = 40.0 \pm 5\%$ $\sigma = 1.40 \pm 5\%$ mho/m

Valid for f=1710-1910 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

ConvF X	4.9 $\pm 9.5\%$ (k=2)	Boundary effect:	
ConvF Y	4.9 $\pm 9.5\%$ (k=2)	Alpha	0.23
ConvF Z	4.9 $\pm 9.5\%$ (k=2)	Depth	2.54

Conversion Factor Assessment



Body 900 MHz $\epsilon_r = 55.0 \pm 5\%$ $\sigma = 1.05 \pm 5\%$ mho/m

Valid for f=800-1000 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

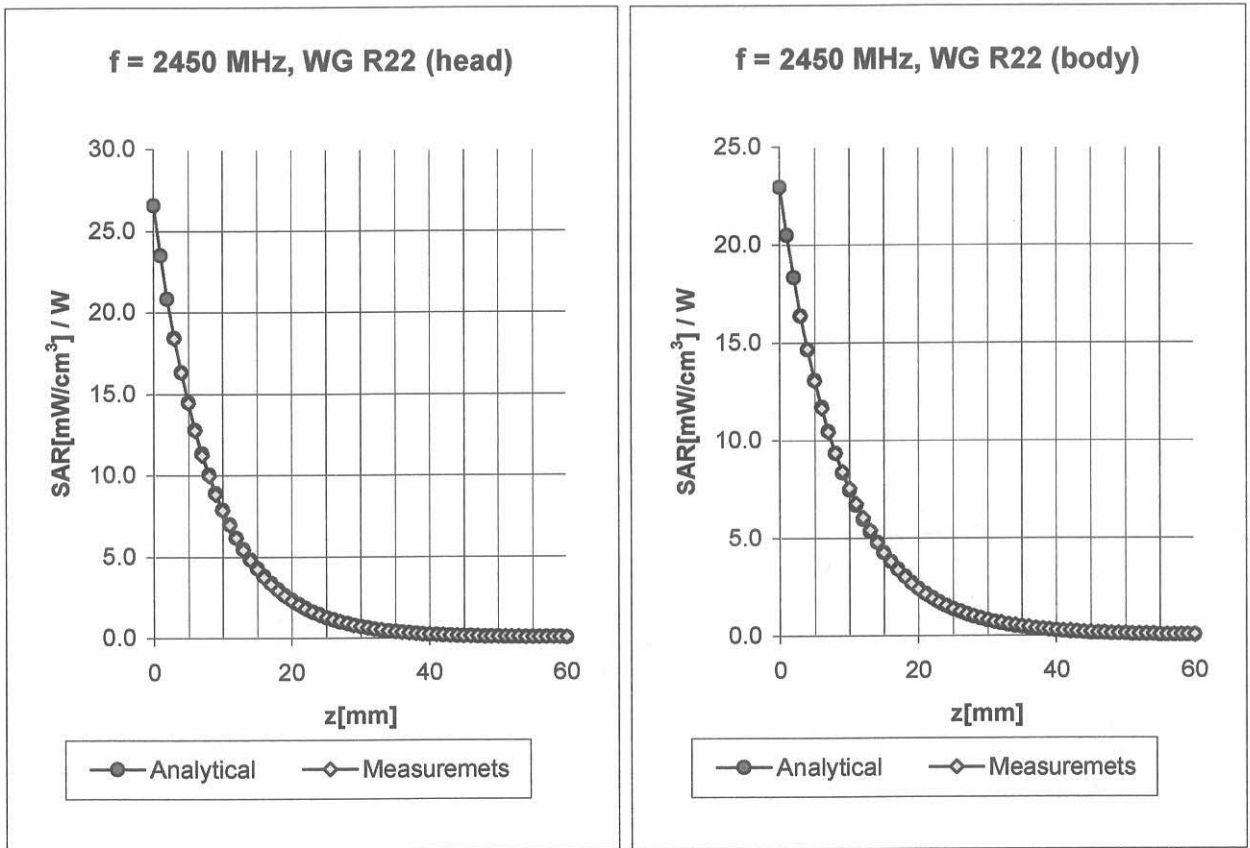
ConvF X	6.0 $\pm 9.5\%$ (k=2)	Boundary effect:
ConvF Y	6.0 $\pm 9.5\%$ (k=2)	Alpha 0.43
ConvF Z	6.0 $\pm 9.5\%$ (k=2)	Depth 1.44

Body 1800 MHz $\epsilon_r = 53.3 \pm 5\%$ $\sigma = 1.52 \pm 5\%$ mho/m

Valid for f=1710-1910 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

ConvF X	4.5 $\pm 9.5\%$ (k=2)	Boundary effect:
ConvF Y	4.5 $\pm 9.5\%$ (k=2)	Alpha 0.26
ConvF Z	4.5 $\pm 9.5\%$ (k=2)	Depth 2.61

Conversion Factor Assessment



Head 2450 MHz $\epsilon_r = 39.2 \pm 5\%$ $\sigma = 1.80 \pm 5\%$ mho/m

Valid for f=2400-2500 MHz with Head Tissue Simulating Liquid according to EN 50361, P1528-200X

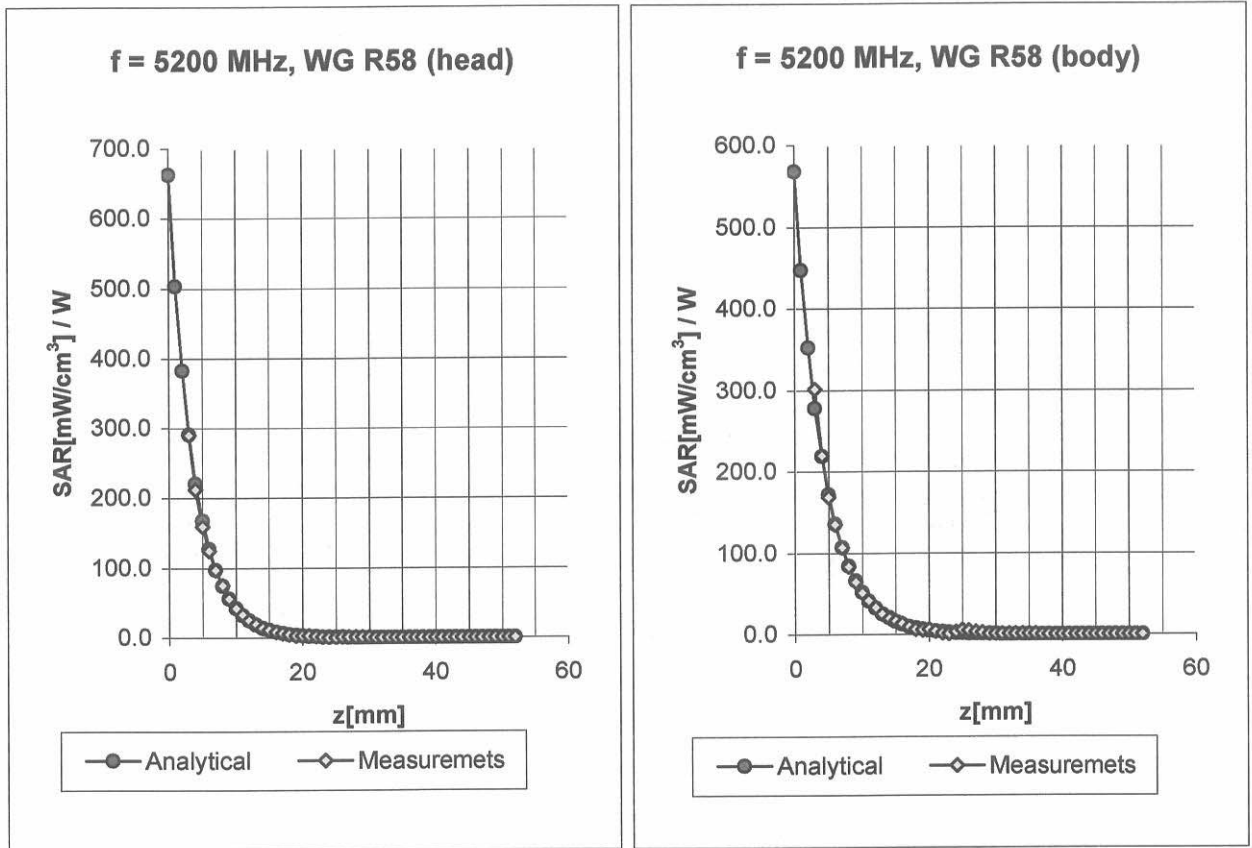
ConvF X	4.4 $\pm 9.5\%$ (k=2)	Boundary effect:	
ConvF Y	4.4 $\pm 9.5\%$ (k=2)	Alpha	0.38
ConvF Z	4.4 $\pm 9.5\%$ (k=2)	Depth	1.66

Body 2450 MHz $\epsilon_r = 52.7 \pm 5\%$ $\sigma = 1.95 \pm 5\%$ mho/m

Valid for f=2400-2500 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

ConvF X	4.1 $\pm 9.5\%$ (k=2)	Boundary effect:	
ConvF Y	4.1 $\pm 9.5\%$ (k=2)	Alpha	0.35
ConvF Z	4.1 $\pm 9.5\%$ (k=2)	Depth	1.94

Conversion Factor Assessment



Head 5200 MHz $\epsilon_r = 36.0 \pm 5\%$ $\sigma = 4.66 \pm 5\%$ mho/m

Valid for f=4940-5460 MHz with Head Tissue Simulating Liquid according to OET65-SuppC

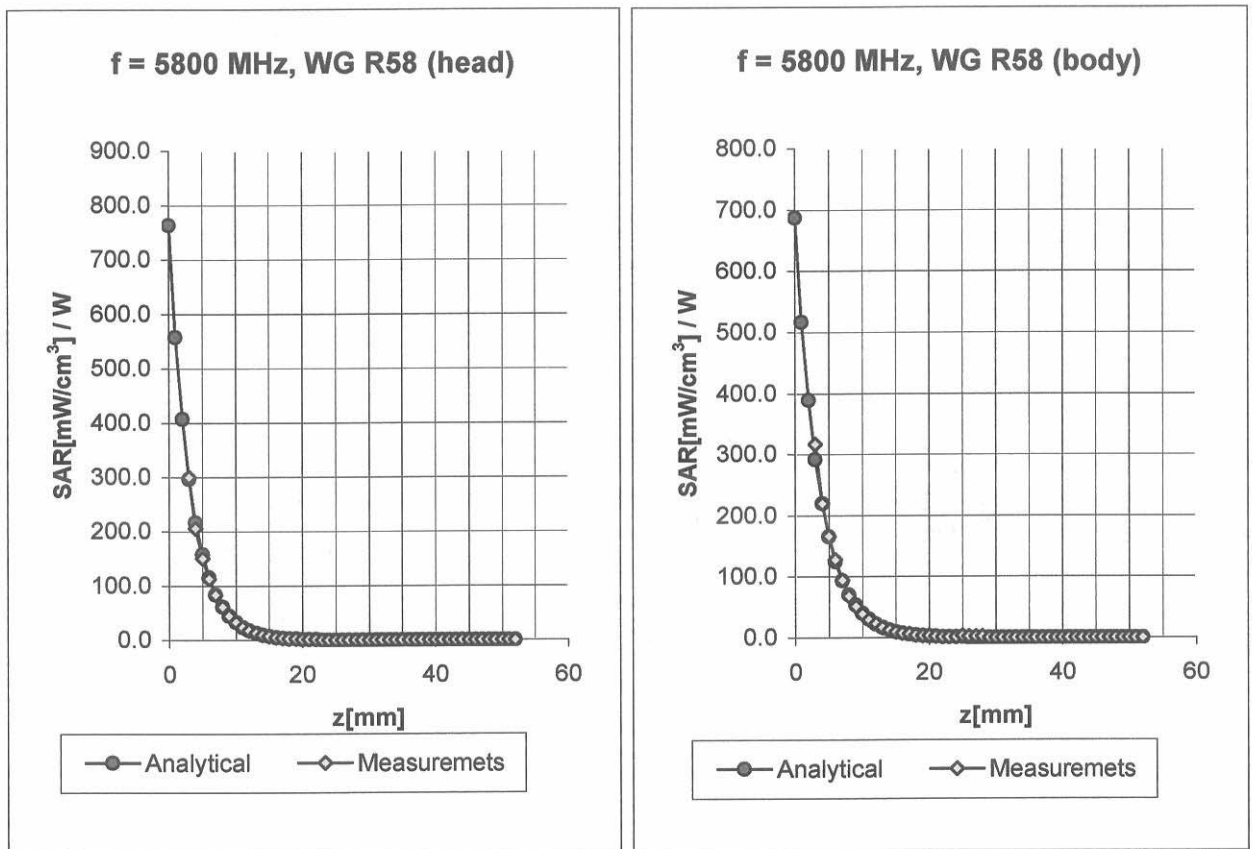
ConvF X	2.70 $\pm 16.6\%$ (k=2)	Boundary effect:	
ConvF Y	2.70 $\pm 16.6\%$ (k=2)	Alpha	0.75
ConvF Z	2.70 $\pm 16.6\%$ (k=2)	Depth	1.45

Body 5200 MHz $\epsilon_r = 49.0 \pm 5\%$ $\sigma = 5.30 \pm 5\%$ mho/m

Valid for f=4940-5460 MHz with Body Tissue Simulating Liquid according to OET65-SuppC

ConvF X	1.82 $\pm 16.6\%$ (k=2)	Boundary effect:	
ConvF Y	1.82 $\pm 16.6\%$ (k=2)	Alpha	0.90
ConvF Z	1.82 $\pm 16.6\%$ (k=2)	Depth	1.70

Conversion Factor Assessment



Head 5800 MHz $\epsilon_r = 35.3 \pm 5\%$ $\sigma = 5.27 \pm 5\%$ mho/m

Valid for f=4940-5460 MHz with Head Tissue Simulating Liquid according to OET65-SuppC

ConvF X	2.40 $\pm 16.6\%$ (k=2)	Boundary effect:	
ConvF Y	2.40 $\pm 16.6\%$ (k=2)	Alpha	0.89
ConvF Z	2.40 $\pm 16.6\%$ (k=2)	Depth	1.30

Body 5800 MHz $\epsilon_r = 48.2 \pm 5\%$ $\sigma = 6.0 \pm 5\%$ mho/m

Valid for f=4940-5460 MHz with Body Tissue Simulating Liquid according to OET65-SuppC

ConvF X	1.50 $\pm 16.6\%$ (k=2)	Boundary effect:	
ConvF Y	1.50 $\pm 16.6\%$ (k=2)	Alpha	1.01
ConvF Z	1.50 $\pm 16.6\%$ (k=2)	Depth	1.85

Deviation from Isotropy in HSL

Error (θ, ϕ), $f = 900$ MHz

