

1. Measurement Conditions

The measurements were performed in the flat section of the SAM twin phantom filled with **head** simulating liquid of the following electrical parameters at 1900 MHz:

Relative Dielectricity 38.8 $\pm 5\%$ Conductivity 1.47 mho/m $\pm 5\%$

The DASY4 System with a dosimetric E-field probe ET3DV6 (SN:1507, Conversion factor 4.96 at 1900 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. The included distance 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 $250 \text{mW} \pm 3$ %. 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 ET3DV6 SN:1507 and applying the <u>advanced extrapolation</u> are:

averaged over 1 cm³ (1 g) of tissue: 41.6 mW/g \pm 16.8 % (k=2)¹ averaged over 10 cm³ (10 g) of tissue: 21.6 mW/g \pm 16.2 % (k=2)¹

1 validation uncertainty



3. Dipole Impedance and Return Loss

The impedance was measured at the SMA-connector with a network analyzer and numerically transformed to the dipole feedpoint. The transformation parameters from the SMA-connector to the dipole feedpoint are:

Electrical delay: 1.200 ns (one direction)

Transmission factor: 0.993 (voltage transmission, one direction)

The dipole was positioned at the flat phantom sections according to section 1 and the distance spacer was in place during impedance measurements.

Feedpoint impedance at 1900 MHz: $Re\{Z\} = 51.2 \Omega$

Im $\{Z\} = 4.9\Omega$

Return Loss at 1900 MHz -26.1 dB

4. Measurement Conditions

The measurements were performed in the flat section of the SAM twin phantom filled with body simulating tissue of the following electrical parameters at 1900 MHz:

Relative Dielectricity 52.5 \pm 5% Conductivity 1.58 mho/m \pm 5%

The DASY4 System with a dosimetric E-field probe ET3DV6 (SN:1507, Conversion factor 4.57 at 1900 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. The included distance 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 $250 \text{mW} \pm 3 \%$. The results are normalized to 1 W input power.



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 1W (forward power). The resulting averaged SAR-values measured with the dosimetric probe ET3DV6 SN:1507 and applying the advanced extrapolation are:

averaged over 1 cm3 (1 g) of tissue:

42.0 mW/g \pm 16.8 % (k=2)²

averaged over 10 cm³ (10 g) of tissue: 22.0 mW/g \pm 16.2 % (k=2)²

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 1900 MHz:

 $Re\{Z\} = 46.6 \Omega$

 $Im \{Z\} = 5.1 \Omega$

Return Loss at 1900 MHz

-24.0 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-

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

Power Test

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

² validation uncertainty

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Date/Time: 02/17/04 14:13:01

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN5d041

Communication System: CW-1900; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: HSL 1900 MHz;

Medium parameters used: f = 1900 MHz; $\sigma = 1.47 \text{ mho/m}$; $\varepsilon_r = 38.8$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 SN1507; ConvF(4.96, 4.96, 4.96); 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 30; Postprocessing SW: SEMCAD, V1.8 Build 98

Pin = 250 mW; d = 10 mm/Area Scan (81x81x1): Measurement grid: dx=15mm, dy=15mm Reference Value = 93.8 V/m

Power Drift = 0.002 dB

Maximum value of SAR = 11.8 mW/g

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

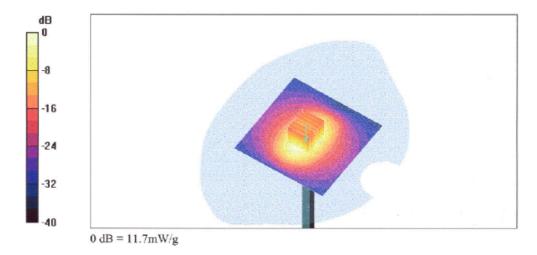
Peak SAR (extrapolated) = 18.7 W/kg

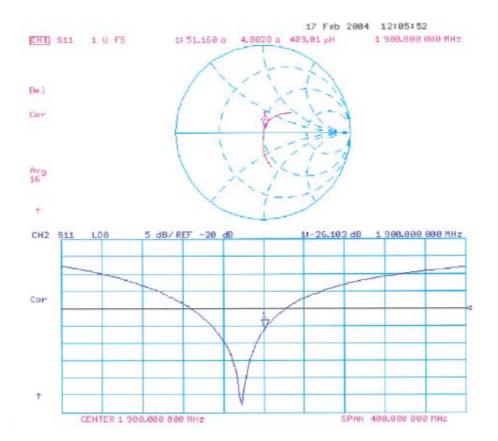
SAR(1 g) = 10.4 mW/g; SAR(10 g) = 5.39 mW/g

Reference Value = 93.8 V/m

Power Drift = 0.002 dB

Maximum value of SAR = 11.7 mW/g





Page 1 of 1

Date/Time: 02/09/04 15:58:45

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 1900 MHz; Type: D1900V2; Serial: D1900V2 - SN5d041

Communication System: CW-1900; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: Muscle 1900 MHz;

Medium parameters used: f = 1900 MHz; $\sigma = 1.58$ mho/m; $\varepsilon_r = 52.5$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY4 (High Precision Assessment)

DASY4 Configuration:

- Probe: ET3DV6 SN1507; ConvF(4.57, 4.57, 4.57); 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 25; Postprocessing SW: SEMCAD, V1.8 Build 101

Pin = 250 mW; d = 10 mm/Area Scan (81x81x1): Measurement grid: dx=15mm, dy=15mm Reference Value = 92.6 V/m; Power Drift = 0.0 dB Maximum value of SAR (interpolated) = 11.8 mW/g

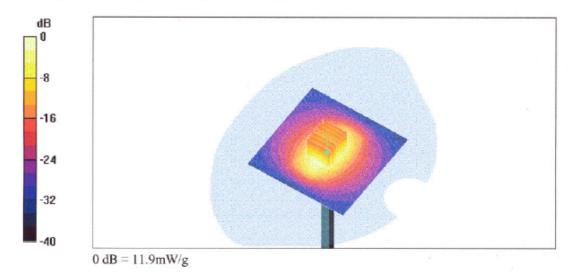
Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 92.6 V/m; Power Drift = 0.0 dB

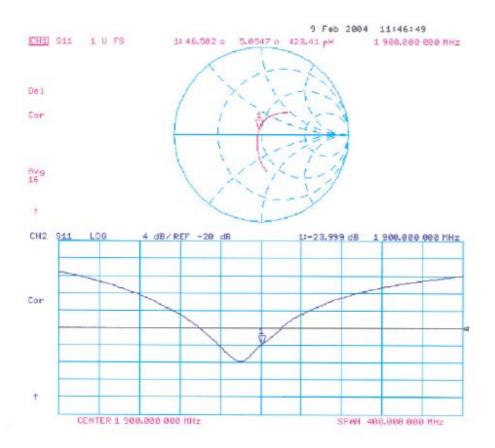
Maximum value of SAR (measured) = 11.9 mW/g

Peak SAR (extrapolated) = 18.8 W/kg

SAR(1 g) = 10.5 mW/g; SAR(10 g) = 5.49 mW/g









Page 1 (1)

Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland

Client

Auden > Sporton Int. Inc.

Object(s)	ET3DV6 - SN:	1788	
Calibration procedure(s)	QA CAL-01 v2 Calibration pro	? ocedure for dosimetric E-field prob	es
Calibration date:	August 29, 20	03	
Condition of the calibrated item	In Tolerance (according to the specific calibration	1 document)
This calibration statement document 17025 international standard.	ts traceability of M&TE	used in the calibration procedures and conformity of	the procedures with the ISO/IEC
All calibrations have been conducted	d in the closed laborato	ry facility: environment temperature 22 +/- 2 degrees	s Celsius and humidity < 75%.
Calibration Equipment used (M&TE	critical for calibration)		
Model Type	ID#	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
-	US3642U01700	4-Aug-99 (SPEAG, in house check Aug-02)	In house check: Aug-05
ower sensor E4412A	MY41495277	2-Apr-03 (METAS, No 252-0250)	Apr-04
Power sensor E4412A Power sensor HP 8481A	MY41495277 MY41092180	2-Apr-03 (METAS, No 252-0250) 18-Sep-02 (Agilent, No. 20020918)	Apr-04 Sep-03
ower sensor E4412A ower sensor HP 8481A ower meter EPM E4419B	MY41495277 MY41092180 GB41293874	2-Apr-03 (METAS, No 252-0250) 18-Sep-02 (Agilent, No. 20020918) 2-Apr-03 (METAS, No 252-0250)	Apr-04 Sep-03 Apr-04
Power sensor E4412A Power sensor HP 8481A Power meter EPM E4419B Network Analyzer HP 8753E	MY41495277 MY41092180	2-Apr-03 (METAS, No 252-0250) 18-Sep-02 (Agilent, No. 20020918)	Apr-04 Sep-03
Power sensor E4412A Power sensor HP 8481A Power meter EPM E4419B Network Analyzer HP 8753E	MY41495277 MY41092180 GB41293874 US37390585	2-Apr-03 (METAS, No 252-0250) 18-Sep-02 (Agilent, No. 20020918) 2-Apr-03 (METAS, No 252-0250) 18-Oct-01 (Agilent, No. 24BR1033101)	Apr-04 Sep-03 Apr-04 In house check: Oct 03
Power sensor E4412A Power sensor HP 8481A Power meter EPM E4419B Network Analyzer HP 8753E Fluke Process Celibrator Type 702	MY41495277 MY41092180 GB41293874 US37390585 SN: 6295803	2-Apr-03 (METAS, No 252-0250) 18-Sep-02 (Agilent, No. 20020918) 2-Apr-03 (METAS, No 252-0250) 18-Oct-01 (Agilent, No. 24BR1033101) 3-Sep-01 (ELCAL, No.2360)	Apr-04 Sep-03 Apr-04 In house check: Oct 03 Sep-03
Power sensor E4412A Power sensor HP 8481A Power meter EPM E4419B Network Analyzer HP 8753E Fluke Process Celibrator Type 702 Calibrated by:	MY41495277 MY41092180 GB41293874 US37390585 SN: 6295803	2-Apr-03 (METAS, No 252-0250) 18-Sep-02 (Agilent, No. 20020918) 2-Apr-03 (METAS, No 252-0250) 18-Oct-01 (Agilent, No. 24BR1033101) 3-Sep-01 (ELCAL, No.2360)	Apr-04 Sep-03 Apr-04 In house check: Oct 03 Sep-03
RF generator HP 8684C Power sensor E4412A Power sensor HP 8481A Power meter EPM E4419B Network Analyzer HP 8753E Fluke Process Celibrator Type 702 Calibrated by: Approved by:	MY41495277 MY41092180 GB41293874 US37390585 SN: 6295803 Name	2-Apr-03 (METAS, No 252-0250) 18-Sep-02 (Agilent, No. 20020918) 2-Apr-03 (METAS, No 252-0250) 18-Oct-01 (Agilent, No. 24BR1033101) 3-Sep-01 (ELCAL, No.2360) Function Technicism	Apr-04 Sep-03 Apr-04 In house check: Oct 03 Sep-03
Power sensor E4412A Power sensor HP 8481A Power motor EPM E4419B Network Analyzer HP 8753E Fluke Process Calibrator Type 702 Calibrated by: Approved by:	MY41495277 MY41092180 GB41293874 US37390585 SN: 6295803 Name Nico Vetterii	2-Apr-03 (METAS, No 252-0250) 18-Sep-02 (Agilent, No. 20020918) 2-Apr-03 (METAS, No 252-0250) 18-Oct-01 (Agilent, No. 24BR1033101) 3-Sep-01 (ELCAL, No.2360) Function Technicism	Apr-04 Sep-03 Apr-04 In house check: Oct 03 Sep-03 Signature Out of the control

880-KP0301061-A



Schmid & Partner Engineering AG

speag

Zeughausstrasse 43, 8004 Zurich, Switzerland Phone +41 1 245 9700, Fax +41 1 245 9779 info@speag.com, http://www.speag.com

Probe ET3DV6

SN:1788

Manufactured: Last calibration:

May 28, 2003 August 29, 2003

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)



ET3DV6 SN:1788 August 29, 2003

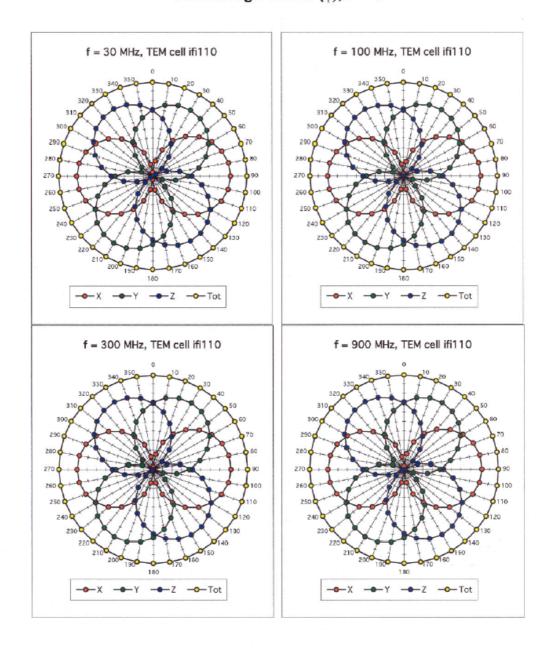
DASY - Parameters of Probe: ET3DV6 SN:1788

Sensitivity in Free	Space	[Diode Co	mpression		
NormX	1.68 µV/(V/m			DCP X	95	mV
NormY	1.62 µV/(V/n			DCP Y	95	mV
NormZ	1.71 μV/(V/n	n) ²		DCP Z	95	mV
Sensitivity in Tissue	e Simulating Liquid	d				
Head 90	0 MHz	er= 41.5 ± 5%	σ=	0.97 ± 5% mh	o/m	
Valid for f=800-1000 MHz	with Head Tissue Simulating	g Liquid according	to EN 50361,	P1528-200X		
ConvF X	6.6 ± 9.5% ((k=2)		Boundary effect	:	
ConvF Y	6.6 ± 9.5% ((k=2)		Alpha	0.34	
ConvF Z	6.6 ± 9.5% ((k=2)		Depth	2.48	
Head 180	O MHz	E _r = 40.0 ± 5%	σ=	1.40 ± 5% mh	o/m	
Valid for f=1710-1910 MHz	with Head Tissue Simulation	ng Liquid according	g to EN 5036	1, P1528-200X		
ConvF X	5.3 ±9.5% ((k=2)		Boundary effect	:	
ConvF Y	5.3 ±9.5% (k=2)		Alpha	0.43	
ConvF Z	5.3 ±9.5% ((k=2)		Depth	2.80	
Boundary Effect						
Head 90	00 MHz Typical S	SAR gradient: 5 %	% per mm			
Probe Tip to	Boundary			1 mm	2 mm	
SAR _{be} [%]	Without Correction Alg	orithm		8.7	5.0	
SAR _{be} [%]	With Correction Algorit	hm		0.3	0.5	
Head 180	00 MHz Typical S	SAR gradient: 10	% per mm			
Probe Tip to	Boundary			1 mm	2 mm	
SAR _{be} [%]	Without Correction Alg	orithm		12.8	8.9	
SAR _{be} [%]	With Correction Algoriti	hm		0.3	0.1	
Sensor Offset						
	Sensor Center	:	2.7	mn	n	
Optical Surfa	ace Detection		1.6 ± 0.2	mn	n	

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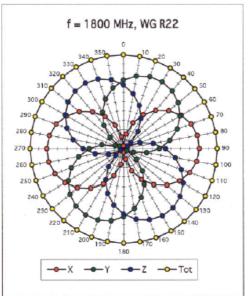
Receiving Pattern (ϕ), θ = 0°

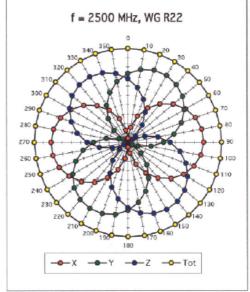


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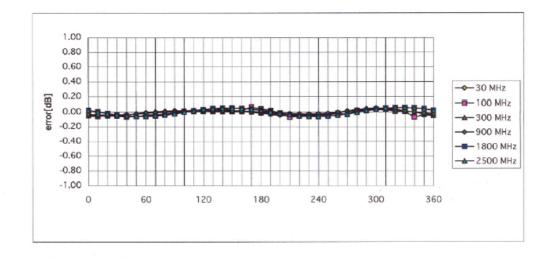
ET3DV6 SN:1788

August 29, 2003





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



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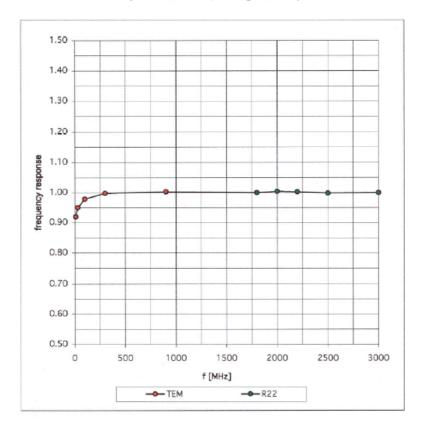


ET3DV6 SN:1788

August 29, 2003

Frequency Response of E-Field

(TEM-Cell:ifi110, Waveguide R22)



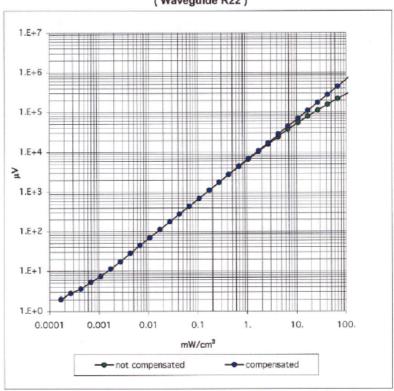
ET3DV6 SN:1788

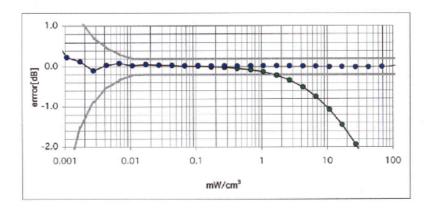
Test Report No : 0462921-1-2-01

August 29, 2003

Dynamic Range f(SAR_{brain})

(Waveguide R22)





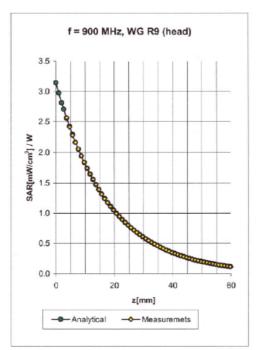
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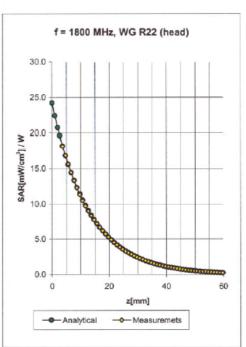


ET3DV6 SN:1788

August 29, 2003

Conversion Factor Assessment





Head	900 MHz		ϵ_r = 41.5 ± 5%	σ=	0.97 ± 5% mho/r	n
Valid for f=80	0-1000 MHz with Head	Tissue	Simulating Liquid according to EN	5036	51, P1528-200X	
	ConvF X	6.6	± 9.5% (k=2)		Boundary effect:	
	ConvF Y	6.6	± 9.5% (k=2)		Alpha	0.34
	ConvF Z	6.6	± 9.5% (k=2)		Depth	2.48
Head	1800 MHz		ε_r = 40.0 ± 5%	σ=	1.40 ± 5% mho/r	n
Valid for f=17	10-1910 MHz with Head	d Tissi	ue Simulating Liquid according to EN	503	61, P1528-200X	
	ConvF X	5.3	± 9.5% (k=2)		Boundary effect:	
	ConvF Y	5.3	± 9.5% (k=2)		Alpha	0.43
	ConvF Z	5.3	± 9.5% (k=2)		Depth	2.80

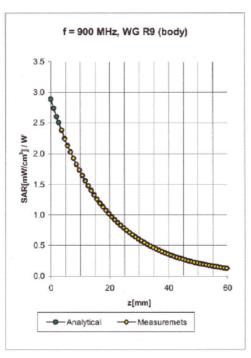
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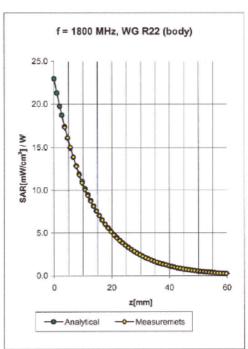


ET3DV6 SN:1788

August 29, 2003

Conversion Factor Assessment



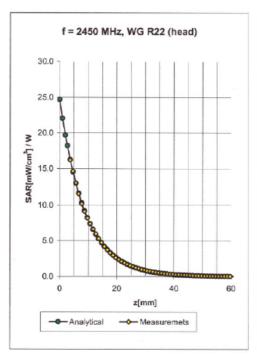


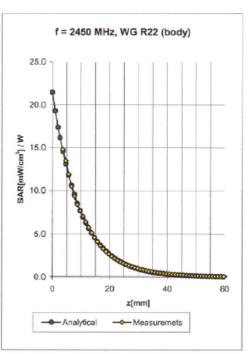
Body 900 MHz	ε _r = 55.0 :	± 5% σ= 1	1.05 ± 5% mho/m	
Valid for f=800-1000 MHz with Body T	ssue Simulating Liquid a	ccording to OET 65 Su	ippl. C	
ConvF X	5.5 ±9.5% (k=2)	E	Boundary effect:	
ConvF Y	5.5 ±9.5% (k=2)		Alpha	0.31
ConvF Z	5.5 ±9.5% (k=2)		Depth	2.92
Body 1800 MHz	ε _r = 53.3 :	± 5% σ = ·	1.52 ± 5% mho/m	
Valid for f=1710-1910 MHz with Body	Tissue Simulating Liquid	according to OET 65 5	Suppl. C	
ConvF X	5.0 ±9.5% (k=2)	E	Boundary effect:	
ConvF Y	5.0 ±9.5% (k=2)	,	Alpha	0.51
ConvF Z	0.0 ±9.5% (k=2)		Depth	2.78

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ET3DV6 SN:1788 August 29, 2003

Conversion Factor Assessment





Head	2450 MHz		ε_r = 39.2 ± 5%	σ=	1.80 ± 5% mho/m	1
Valid for f=2	400-2500 MHz with Hea	d Tiss	ue Simulating Liquid according to EN	503	61, P1528-200X	
	ConvF X	4.7	± 8.9% (k=2)		Boundary effect:	
	ConvF Y	4.7	± 8.9% (k=2)		Alpha	0.99
	ConvF Z	4.7	± 8.9% (k=2)		Depth	1.81
Body	2450 MHz		ε_r = 52.7 ± 5%	σ=	1.95 ± 5% mho/m	1
Valid for f=2	400-2500 MHz with Bod	ly Tiss	ue Simulating Liquid according to OE	T 65	Suppl. C	
	ConvF X	4.5	± 8.9% (k=2)		Boundary effect:	
	ConvF Y	4.5	± 8.9% (k=2)		Alpha	1.01
	ConvF Z	4.5	± 8.9% (k=2)		Depth	1.74

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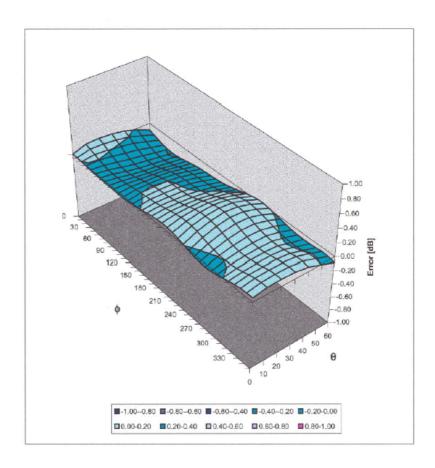


ET3DV6 SN:1788

August 29, 2003

Deviation from Isotropy in HSL

Error (θ,ϕ) , f = 900 MHz





Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland

Client Sporton (Auden)

Object(s)	DAE3 - SD 000 D03	3 AA - SN:577	
Calibration procedure(s)	QA CAL-06.v4	re for the data acquisit	tion unit (DAE)
Calibration date:	21.11.2003		
Condition of the calibrated item	In Tolerance (accord	ding to the specific cal	ibration document)
This calibration statement documer 17025 international standard	nts traceability of M&TE used in	the calibration procedures and c	conformity of the procedures with the ISO/IEO
All calibrations have been conducted	ed in the closed laboratory facilit	ly environment temperature 22 +	F/- 2 degrees Celsius and humidity < 75%.
Calibration Equipment used (M&TE	E critical for calibration)		
Calibration Equipment used (M&TE	E critical for calibration)	y environment temperature 22 + Cai Date 8-Sep-03	+/- 2 degrees Celsius and humidity < 75%. Scheduled Calibration Sep-05
Calibration Equipment used (M&TE	E critical for calibration)	Cal Date	Scheduled Calibration
Calibration Equipment used (M&TE	E critical for calibration)	Cal Date	Scheduled Calibration
Calibration Equipment used (M&TE	E critical for calibration)	Cal Date	Scheduled Calibration
Calibration Equipment used (M&TE	E critical for calibration)	Cal Date	Scheduled Calibration
	E critical for calibration)	Cal Date	Scheduled Calibration
Calibration Equipment used (M&TE	E critical for calibration)	Cai Date 8-Sep-03	Scheduled Calibration Sep-05
Calibration Equipment used (M&TE	E critical for calibration) ID # SN. 6295803	Cai Date 8-Sep-03	Scheduled Calibration Sep-05
Calibration Equipment used (M&TE Model Type Fluke Process Calibrator Type 702	E critical for calibration) ID # SN. 6295803	Cai Date 8-Sep-03	Scheduled Calibration Sep-05
Calibration Equipment used (M&TE Model Type Fluke Process Calibrator Type 702 Fluke Process Calibrator Type 702	E critical for calibration) ID # SN. 6295803 Name Philipp Storchenegger	Cai Date 8-Sep-03	Scheduled Calibration Sep-05

DAE3 SN: 577

DATE: 21.11.2003

1. Cal Lab. Incoming Inspection & Pre Test

Modification Status	Note Status here → → → →	BC
Visual Inspection	Note anomalies	None

Pre Test	Indication	Yes/No
Probe Touch	Function	Yes
Probe Collision	Function	Yes
Probe Touch&Collision	Function	Yes

2. DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: $1LSB = 6.1\mu V$, full range = 400 mVLow Range: 1LSB = 61nV, full range = 4 mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	Х	Y	Z
High Range	404.434	403.889	404.352
Low Range	3.94303	3.94784	3.9501
Connector Angle to be used	in DASY System	127 °	

Input	Reading in µV	% Error	
200mV	200000.6	0.00	
20mV	20000.9	0.00	
20mV	-19992.7	-0.04	
200mV	200000.6	0.00	
20mV	19999.1	0.00	
20mV	-19994.7	-0.03	
200mV	199999.8	0.00	
20mV	19998.1	-0.01	
20mV	-19999.2	0.00	
	200mV 20mV 20mV 20mV 20mV 20mV 20mV 20mV	200mV 200000.6 20mV 20000.9 20mV -19992.7 200mV 200000.6 20mV 19999.1 20mV -19994.7 200mV 19999.8 20mV 19998.1	

Low Range	Input	Reading in µV	% Error
Channel X + Input	2mV	1999.94	0.00
	0.2mV	199.08	-0.46
Channel X - Input	0.2mV	-200.24	0.12
Channel Y + Input	2mV	1999.98	0.00
	0.2mV	199.50	-0.25
Channel Y - Input	0.2mV	-200.80	0.40
Channel Z + Input	2mV	1999.98	0.00
	0.2mV	199.11	-0.44
Channel Z - Input	0.2mV	-201.12	0.56

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DAE3 SN: 577

DATE: 21.11.2003

3. Common mode sensitivity

DASY measurement parameters:

Auto Zero Time: 3 sec,

Measuring time: 3 sec

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пΙ	а	n/	LOW	ĸ	а	na	е

in μV	Common mode Input Voltage	High Range Reading	Low Range Reading
Channel X	200mV	12.00	11.9
	- 200mV	-10.76	-12.44
Channel Y	200mV	-8.55	-8.51
	- 200mV	7.58	6.67
Channel Z	200mV	-0.86	-0.58
	- 200mV	-0.85	-0.77

4. Channel separation

DASY measurement parameters:

Auto Zero Time: 3 sec,

Measuring time:

3 sec

in μV	Input Voltage	Channel X	Channel Y	Channel Z
Channel X	200mV	-	1.96	0.28
Channel Y	200mV	0.66	-	3.59
Channel Z	200mV	-0.89	-0.11	-

5.1 AD-Converter Values with Input Voltage set to 2.0 VDC

in Zero Low	Low Range Max - Min	Max.	Min
Channel X	17	16137	16120
Channel Y	27	16767	16740
Channel Z	8	15103	15077

5.2 AD-Converter Values with inputs shorted

in LSB	Low Range	High Range
Channel X	16134	15955
Channel Y	16740	15960
Channel Z	15093	16252

6. Input Offset Measurement

DAE3 SN: 577

DATE: 21.11.2003

DASY measurement parameters:

Auto Zero Time: 3 sec,

Measuring time: 3 sec

Number of measurements:

100, Low Range

Input 10MO

input rowsz					
in μV	Average	min. Offset	max. Offset	Std. Deviation	
Channel X	-0.64	-1.84	0.71	0.49	
Channel Y	-1.77	-3.93	0.94	0.58	
Channel Z	-2.21	-3.14	-0.81	0.34	

in μV	Average	min. Offset	max. Offset	Std. Deviation
Channel X	0.12	-1.34	1.45	0.69
Channel Y	-0.69	-1.39	0.30	0.26
Channel Z	-0.94	-1.58	-0.30	0.23

7. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

8. Input Resistance

In MOhm	Calibrating	Measuring
Channel X	0.2000	197.1
Channel Y	0.1999	200.3
Channel Z	0.2001	198.3

9. Low Battery Alarm Voltage

in V	Alarm Level
Supply (+ Vcc)	7.58
Supply (- Vcc)	-7.65

10. Power Consumption

in mA	Switched off	Stand by	Transmitting
Supply (+ Vcc)	0.00	5.65	13.7
Supply (- Vcc)	-0.01	-7.69	-8.97