

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,

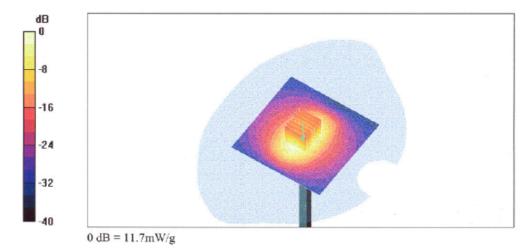
Peak SAR (extrapolated) = 18.7 W/kg

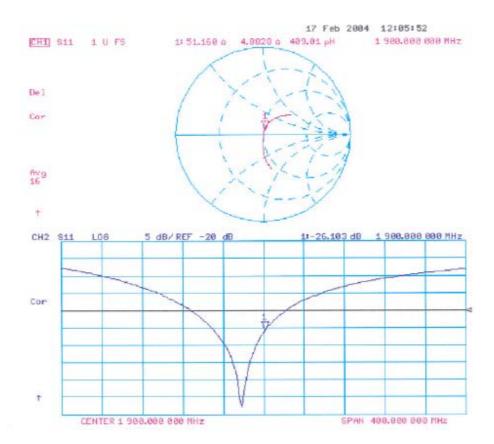
SAR(1 g) = 10.4 mW/g; SAR(10 g) = 5.39 mW/g

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

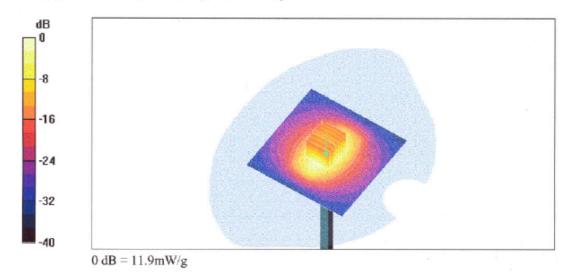
Pin = 250 mW; d = 10 mm/Area Scan (81x81x1): Measurement grid: dx=15mm, dy=15mm Reference Value = 92.6 V/m; Power Drift = 0.0 dB Maximum value of SAR (interpolated) = 11.8 mW/g

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

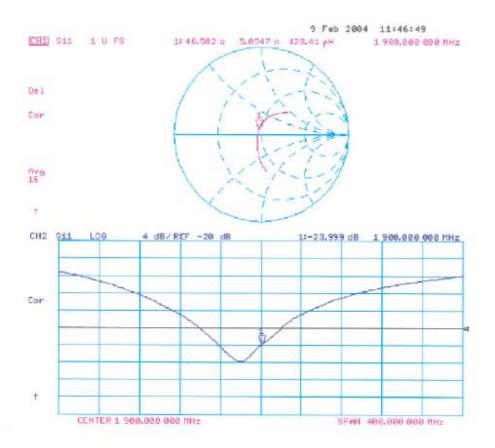
Maximum value of SAR (measured) = 11.9 mW/g

Peak SAR (extrapolated) = 18.8 W/kg

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









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

Client

Auden > Sporton Int. Inc.

	CTODY O-ON	4707	
bject(s)	ET3DV6 - SN:	1/8/ 50 11 11 11 11 11 11 11 11 11 11 11 11 11	A DOMESTIC OF THE STATE OF THE
alibration procedure(s)	QA CAL-01 v2 Calibration pro	cedure for dosimetric E-field probe	95
alibration date:	August 29, 200	03	
ondition of the calibrated item	In Tolerance (a	according to the specific calibration	n-document)
his calibration statement document 7025 international standard.	ts traceability of M&TE	used in the calibration procedures and conformity of	the procedures with the ISO/IEC
Il calibrations have been conducted	d in the closed laborato	ry facility: environment temperature 22 +/- 2 degrees	s Celsius and humidity < 75%.
alibration Equipment used (M&TE	critical for calibration)		
odel Type	D#	Cal Date (Calibrated by, Certificate No.)	Scheduled Calibration
AND DESCRIPTION OF THE PROPERTY OF THE PROPERT	ID# US3642U01700	Cal Date (Calibrated by, Certificate No.) 4-Aug-99 (SPEAG, in house check Aug-02)	Scheduled Calibration In house check: Aug-05
F generator HP 8684C			
F generator HP 8684C ower sensor E4412A	US3642U01700	4-Aug-99 (SPEAG, in house check Aug-02)	In house check; Aug-05
F generator HP 8684C ower sensor E4412A ower sensor HP 8481A	US3642U01700 MY41495277	4-Aug-99 (SPEAG, in house check Aug-02) 2-Apr-03 (METAS, No 252-0250)	In house check: Aug-05 Apr-04
F generator HP 3684C ower sensor E4412A ower sensor HP 8481A ower meter EPM E4419B	US3642U01700 MY41495277 MY41092180	4-Aug-99 (SPEAG, in house check Aug-02) 2-Apr-03 (METAS, No 252-0250) 18-Sep-02 (Agilent, No. 20020918)	In house check: Aug-05 Apr-04 Sep-03
fodel Type F generator HP 8684C ower sensor E4412A ower sensor HP 8481A ower meter EPM E4419B letwork Analyzer HP 8753E luke Process Calibrator Type 702	US3642U01700 MY41495277 MY41092180 GB41293874	4-Aug-99 (SPEAG, in house check Aug-92) 2-Apr-03 (METAS, No 252-0250) 18-Sep-02 (Agilent, No. 20020918) 2-Apr-03 (METAS, No 252-0250)	In house check: Aug-05 Apr-04 Sep-03 Apr-04
F generator HP 8684C ower sensor E4412A ower sensor HP 8481A ower meter EPM E4419B letwork Analyzer HP 8753E	US3642U01700 MY41495277 MY41092180 GB41293874 US37390585	4-Aug-99 (SPEAG, in house check Aug-92) 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)	In house check: Aug-05 Apr-04 Sep-03 Apr-04 In house check: Oct 03
F generator HP 8684C ower sensor E4412A ower sensor HP 8481A ower meter EPM E4419B letwork Analyzer HP 8753E	US3642U01700 MY41495277 MY41092180 GB41293874 US37390585 SN: 6295803	4-Aug-99 (SPEAG, in house check Aug-92) 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.2350)	In house check: Aug-05 Apr-04 Sep-03 Apr-04 In house check: Oct 03 Sep-03
F generator HP 8684C ower sensor E4412A ower sensor HP 8481A ower meter EPM E44198 letwork Analyzer HP 8753E luke Process Calibrator Type 702 calibrated by:	US3642U01700 MY41495277 MY41092180 GB41293874 US37390585 SN: 6295803	4-Aug-99 (SPEAG, in house check Aug-92) 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)	In house check: Aug-05 Apr-04 Sep-03 Apr-04 In house check: Oct 03 Sep-03
F generator HP 8684C ower sensor E4412A ower sensor HP 8481A ower meter EPM E4419B letwork Analyzer HP 8753E luke Process Calibrator Type 702	US3642U01700 MY41495277 MY41092180 GB41293874 US37390585 SN: 6295803 Name	4-Aug-99 (SPEAG, in house check Aug-02) 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.2350) Function Technician	In house check: Aug-05 Apr-04 Sep-03 Apr-04 In house check: Oct 03 Sep-03
F generator HP 8684C ower sensor E4412A ower sensor HP 8481A ower meter EPM E44198 letwork Analyzer HP 8753E luke Process Calibrator Type 702 calibrated by:	US3642U01700 MY41495277 MY41092180 GB41293874 US37390585 SN: 6295803 Name	4-Aug-99 (SPEAG, in house check Aug-02) 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.2350) Function Technician	In house check: Aug-05 Apr-04 Sep-03 Apr-04 In house check: Oct 03 Sep-03
F generator HP 8684C ower sensor E4412A ower sensor HP 8481A ower meter EPM E4419B letwork Analyzer HP 8753E luke Process Calibrator Type 702 lalibrated by:	US3642U01700 MY41495277 MY41092180 GB41293874 US37390585 SN: 6295803 Name Nico-Vetterii Katja Pokovic	4-Aug-99 (SPEAG, in house check Aug-02) 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.2350) Function Technician	In house check: Aug-05 Apr-04 Sep-03 Apr-04 In house check: Oct 03 Sep-03 Signature Date issued: August 28, 2003

880-KP0301061-A

Page 1 (1)



Schmid & Partner Engineering AG

speaq

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Probe ET3DV6

SN:1787

Manufactured: Last calibration: May 28, 2003 August 29, 2003

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)



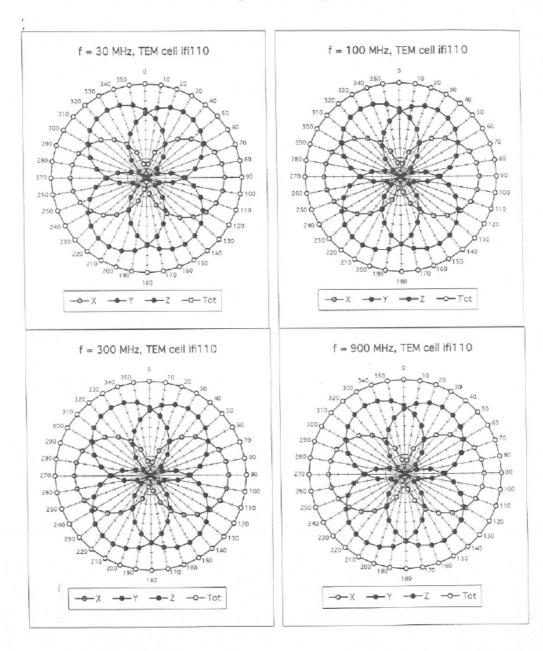
ET3DV6 SN:1787 August 29, 2003

DASY - Parameters of Probe: ET3DV6 SN:1787

,Sensitivi	ty in Free S	oace		Diode Co	mpression		
,	NormX	1.62 µV/(V/m) ²		DCP X	94	mV
	NormY	1.63 μV/(DCP Y	94	mV
	NormZ	1.96 μV/(DCP Z	94	mV
	y in Tissue S						
Head	900 M		६= 41.5 ± 5%		0.97 ± 5% m	nho/m	
Valid for f=80			lating Liquid accordi	ng to EN 50361			
	ConvF X	6.5 ±9.	X11.X 22		Boundary effe		
	ConvF Y	6.5 ±9.			Alpha	0.41	
	ConvF Z	6.5 ±9.	5% (k=2)		Depth	2.23	
Head	1800 N	1Hz	ε_r = 40.0 ± 59	6 σ=	1.40 ± 5% n	nho/m	
Valid for f=1	710-1910 MHz wit	h Head Tissue Sim	ulating Liquid accor	ding to EN 503	61, P1 528-200	<	
	ConvF X	5.3 ±9.	5% (k=2)		Boundary effe	ct:	
	ConvF Y	5.3 ±9	5% (k=2)		Alpha	0.43	
	ConvF Z	5.3 ±9	5% (k=2)		Depth	2.90	
Boundar	ry Effect						
Head	900	dHz Typ	ical SAR gradient:	5 % per mm			
	Probe Tip to Bo	undary			1 mm	2 mm	
	SAR _{be} [%]	Without Correction	n Algorithm		8.6	4.8	
	SAR _{be} [%]	With Correction A	lgorithm		0.2	0.4	
Head	1800	MHz Typ	ical SAR gradient:	: 10 % per mm			
	Probe Tip to Bo	undary			1 mm	2 mm	
	SAR _{be} [%]	Without Correctio	n Algorithm		13.3	9.3	
	SAR _{be} [%]	With Correction A	lgorithm		0.2	0.1	
Sensor	Officet						
Sensor							
	Probe Tip to Se	nsor Center		2.7		mm	
	Optical Surface	Detection		1.4 ± 0.2		mm	

August 29, 2003 ET3DV6 SN:1787

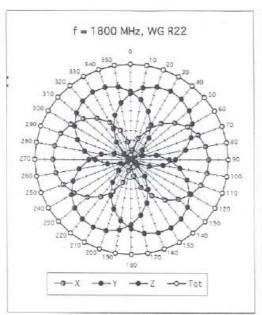
Receiving Pattern (ϕ), θ = 0°

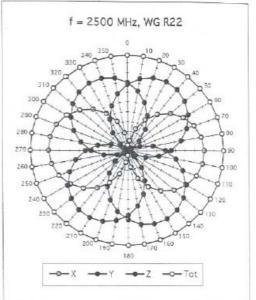


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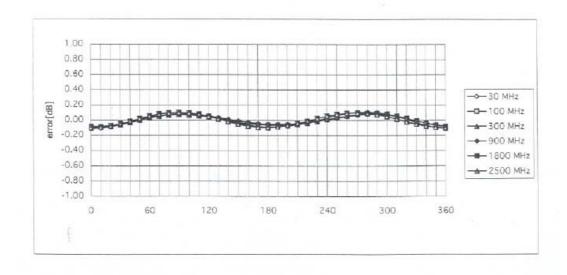
ET3DV6 SN:1787

August 29, 2003





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



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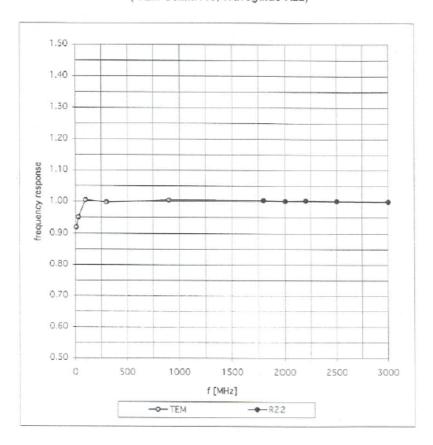


ET3DV6 SN:1787

August 29, 2003

Frequency Response of E-Field

(TEM-Cell:ifi110, Waveguide R22)

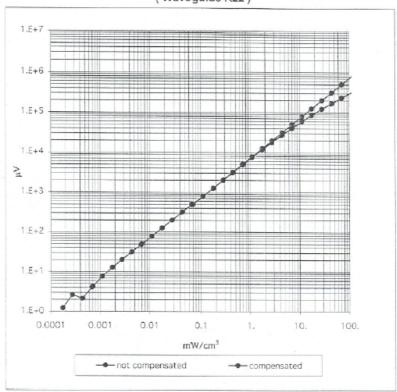


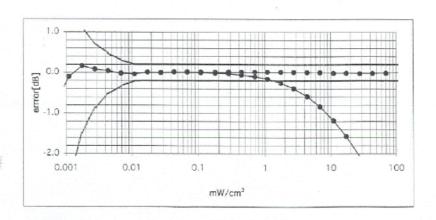
ET3DV6 SN:1787

August 29, 2003

Dynamic Range f(SAR_{brain})

(Waveguide R22)



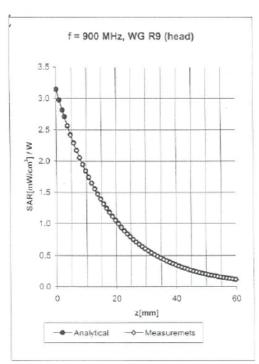


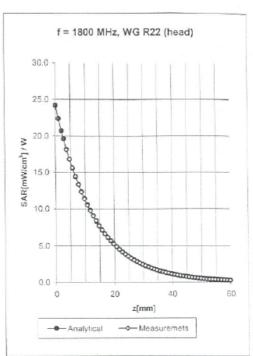
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ET3DV6 SN:1787

August 29, 2003

Conversion Factor Assessment





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п	ᄩ	a	u	

900 MHz

 ϵ_{r} = 41.5 ± 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

6.5 ± 9.5% (k=2)

Boundary effect:

ConvF Y

6.5 ± 9.5% (k=2)

Alpha 0.41

ConvF Z

6.5 ± 9.5% (k=2)

Depth 2.23

Hann

1800 MHz

 ε_r = 40.0 ± 5%

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

ConvF X

5.3 ± 9.5% (k=2)

Boundary effect:

 $\sigma = 1.40 \pm 5\%$ mho/m

ConvF Y

5.3 ±9.5% (k=2)

Alpha

ConvF Z

5.3 ±9.5% (k=2)

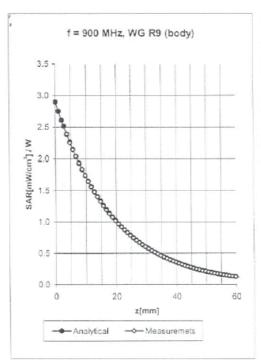
Depth

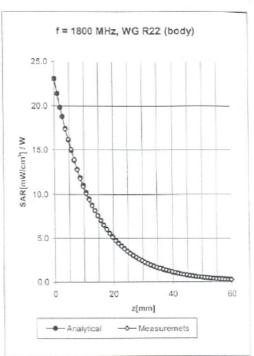
0.43

ET3DV6 SN:1787

August 29, 2003

Conversion Factor Assessment





0.34

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 $6.4 \pm 9.5\%$ (k=2) Boundary effect: ConvF Y $6.4 \pm 9.5\%$ (k=2) Alpha

ConvF Z 6.4 ± 9.5% (k=2) Depth 2.70

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 Suppl. C ConvF X 4.9 $\pm 9.5\%$ (k=2) Boundary effect: ConvF Y 4.9 $\pm 9.5\%$ (k=2) Alpha 0.51

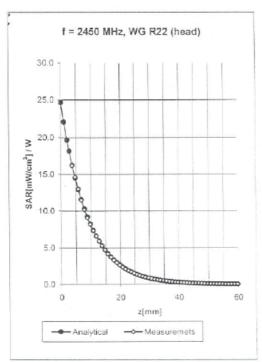
ConvF Z 4.9 ± 9.5% (k=2) Depth 2.79

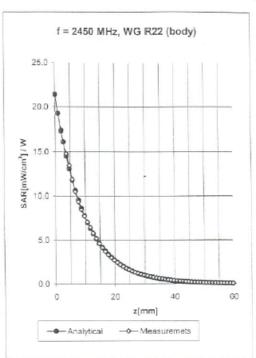
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ET3DV6 SN:1787

August 29, 2003

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	4.8 ±8.9% (k=2)	Boundary effect:	
ConvF Y	4.8 ±8.9% (k=2)	Alpha	0.95
ConvF Z	4.8 ± 8.9% (k=2)	Depth	1.86

Body	2450 MHz	$\epsilon_{\rm r} = 52.7 \pm 596$	σ = 1.95 ± 5% mho/m
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Valid for f=2400-2500 MHz with Body Tissue Simulating Liquid according to OET 65 Suppl. C

ConvF X	4.5 ± 8.9% (k=2)	Boundary effect:
ConvF Y	4.5 ± 8.9% (k=2)	Alpha 1.21
ConvF Z	4.5 ± 8.9% (k=2)	Depth 1.55

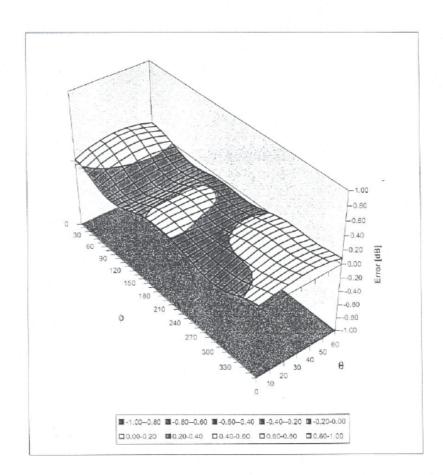


ET3DV6 SN:1787

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 Calibration procedure	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 docume	ents traceability of M&TE used in	the calibration procedures and c	conformity of the procedures with the ISO/IEO
17025 international standard. All calibrations have been conduct		ly environment temperature 22 +	1- 2 degrees Celsius and humidity < 75%.
17025 international standard. All calibrations have been conduct Calibration Equipment used (M&T) Model Type	E critical for calibration)	Cal Date	Scheduled Calibration
17026 international standard. All calibrations have been conduct Calibration Equipment used (M&T)	E critical for calibration)		
17025 international standard. All calibrations have been conduct Calibration Equipment used (M&T) Model Type	E critical for calibration)	Cal Date	Scheduled Calibration
17025 international standard. All calibrations have been conduct Calibration Equipment used (M&T) Model Type	E critical for calibration)	Cal Date 8-Sep-03	Scheduled Calibration Sep-05
17025 international standard. All calibrations have been conduct Calibration Equipment used (M&T) Model Type	E critical for calibration) ID # 2 SN. 6295803	Cal Date 8-Sep-03	Scheduled Calibration Sep-05
17026 international standard. NI calibrations have been conduct Calibration Equipment used (M&Ti Model Type Fluke Process Calibrator Type 702	E critical for calibration) ID # 2 SN. 6295803	Cal 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	X	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

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

High Rang	е		
in μV	Input Voltage	Channel X	Channel
Channel X	200mV		1.96

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. Number of measurements: Measuring time: 3 sec

100, Low Range

Input 10MΩ

TIPUL TOWISZ					
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	

Input shorted

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