

DASY4 Validation Report for Head TSL

Date/Time: 12.07.2005 12:53:00

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN736

Communication System: CW-2450; Frequency: 2450 MHz; Duty Cycle: 1:1 Medium: HSL U10 BB Medium parameters used: f = 2450 MHz; σ = 1.73 mho/m; ϵ_r = 38.5; ρ = 1000 kg/m³ Phantom section: Flat Section Measurement Standard: DASY4 (High Precision Assessment)

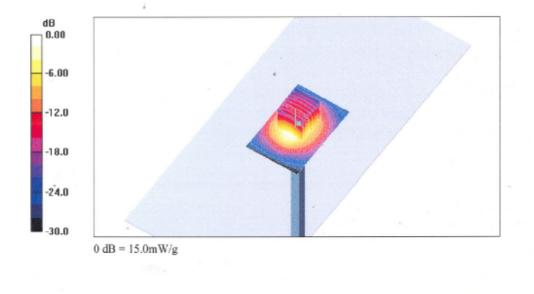
DASY4 Configuration:

- Probe: ES3DV2 SN3025; ConvF(4.4, 4.4, 4.4); Calibrated: 29.10.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 22.07.2004
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA
- Measurement SW: DASY4, V4.5 Build 30; Postprocessing SW: SEMCAD, V1.8 Build 149

Pin = 250 mW; d = 10 mm 2/Area Scan (41x61x1): Measurement grid: dx=15mm, dy=15mm

Maximum value of SAR (interpolated) = 16.6 mW/g

Pin = 250 mW; d = 10 mm 2/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 91.6 V/m; Power Drift = 0.077 dB Peak SAR (extrapolated) = 27.0 W/kg SAR(1 g) = 13.1 mW/g; SAR(10 g) = 6.13 mW/g Maximum value of SAR (measured) = 15.0 mW/g

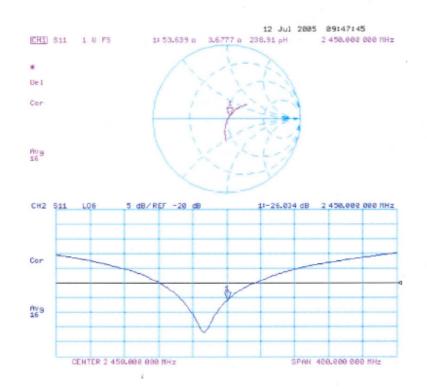


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DASY4 Validation Report for Body TSL

Date/Time: 11.07.2005 17:33:35

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN736

Communication System: CW-2450; Frequency: 2450 MHz; Duty Cycle: 1:1 Medium: MSL 2450 Medium parameters used: f = 2450 MHz; σ = 2.02 mho/m; ϵ_r = 52.5; ρ = 1000 kg/m³ Phantom section: Flat Section Measurement Standard: DASY4 (High Precision Assessment)

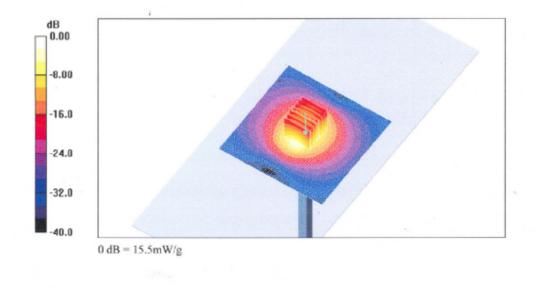
DASY4 Configuration:

- Probe: ES3DV2 SN3025; ConvF(4.13, 4.13, 4.13); Calibrated: 29.10.2004
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 22.07.2004
- Phantom: Flat Phantom 5.0 (front); Type: QD000P50AA
- Measurement SW: DASY4, V4.6 Build 4; Postprocessing SW: SEMCAD, V1.8 Build 149

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

Maximum value of SAR (interpolated) = 15.8 mW/g

Pin = 250 mW; d = 10 mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx-5mm, dy-5mm, dz-5mm Reference Value = 85.9 V/m; Power Drift = 0.160 dB Peak SAR (extrapolated) = 27.6 W/kg SAR(1 g) = 13.5 mW/g; SAR(10 g) = 6.26 mW/g Maximum value of SAR (measured) = 15.5 mW/g



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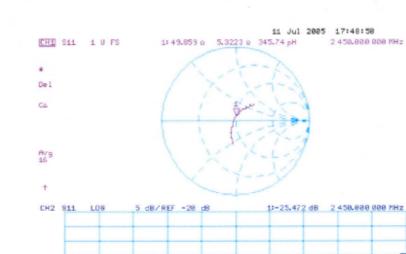
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Impedance Measurement Plot for Body TSL

CENTER 2 450.000 000 MHz

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SPAN 400.000 000 MHz



Accredited by the Swiss Federal The Swiss Accreditation Servic Multilateral Agreement for the I	e is one of the signator	ies to the EA	: SCS 108		
Client Sporton (Aude	1942 A 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		T3-1788_Sep04		
CALIBRATION	CERTIFICAT	E	CASH AND AND A		
Object	ET3DV6 - SN:1788				
Calibration procedure(s)	QA CAL-01.v5 Calibration proc	edure for dosimetric E-field probes			
Calibration date:	September 30, 2004				
Condition of the colibrated item	In Tolerance	ter Summer and Second in			
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Calibration Laboratory of Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland



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Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 108

Accredited by the Swiss Federal Office of Metrology and Accreditation The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Glossary:

TSL	tissue simulating liquid
NORMx,y,z	sensitivity in free space
ConF	sensitivity in TSL / NORMx,y,z
DCP	diode compression point
Polarization ϕ	φ rotation around probe axis
Polarization 9	ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is normal to probe axis

Calibration is Performed According to the Following Standards:

- a) IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- b) CENELEC EN 50361, "Basic standard for the measurement of Specific Absorption Rate related to human exposure to electromagnetic fields from mobile phones (300 MHz - 3 GHz), July 2001

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization 9 = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not effect the E²-field uncertainty inside TSL (see below *ConvF*).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This
 linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of
 the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep (no uncertainty required). DCP does not depend on frequency nor media.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to *NORMx,y,z* * *ConvF* whereby the uncertainty corresponds to that given for *ConvF*. A frequency dependent *ConvF* is used in DASY 4.3 B17 and higher which allows extending the validity from ± 50 MHz to ± 100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

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ET3DV6 SN:1788

September 30, 2004

Probe ET3DV6

SN:1788

Manufactured: Last calibrated: Recalibrated: May 28, 2003 August 29, 2003 September 30, 2004

Calibrated for DASY Systems

(Note: non-compatible with DASY2 system!)

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ET3DV6 SN:1788

September 30, 2004

DASY - Parameters of Probe: ET3DV6 SN:1788

Sens	sitivity in Fre	ee Space ^A		Diode	Compression
	NormX	1.68 ± 9.9%	$\mu V/(V/m)^2$	DCP X	94 mV
	NormY	1.70 ± 9.9%	$\mu V/(V/m)^2$	DCP Y	94 mV
	NormZ	$\textbf{1.74} \pm \textbf{9.9\%}$	μ V/(V/m) ²	DCP Z	94 mV
Sens	itivity in Tis	sue Simulating	Liquid (Convers	sion Factor	s)
Please	see Page 8.				
Bour	ndary Effect	8			
TSL	9	00 MHz Typical	SAR gradient: 5 % p	er mm	
	Sensor Cente	er to Phanlom Surface	Distance	3.7 mm	4.7 mm
	SAR _{be} [%]	Without Correction	n Algorithm	8.1	4.4
	SAR _{be} [%]	With Correction A	lgorithm	0.7	0.1
ISL	18	10 MHz Typical	SAR gradient: 10 %	per mm	
	Sensor Cente	r to Phantom Surface	Distance	3.7 mm	4.7 mm
	SAR _{be} [%]	Without Correction	n Algorithm	12.0	8.Z
	SAR ₆₀ [%]	With Correction A	lgorithm	0.9	0.1
Sens	or Offset				
	Probe Tip to Sensor Center			2.7 mm	
meas	urement mult	tiplied by the cove	ment is stated as t rage factor k=2, wh ty of approximately	nich for a nor	and the second

Certificate No: ET3-1788_Sep04

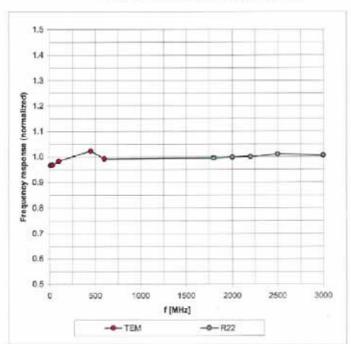
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ET3DV6 SN:1788

September 30, 2004



Frequency Response of E-Field

(TEM-Cell:IfI110 EXX, Waveguide: R22)

Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

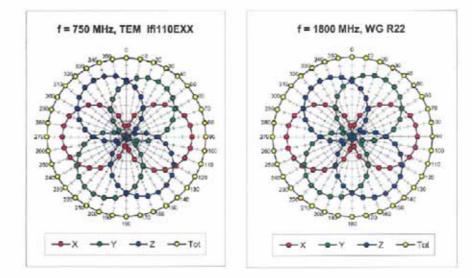
Certificate No: ET3-1788_Sep04

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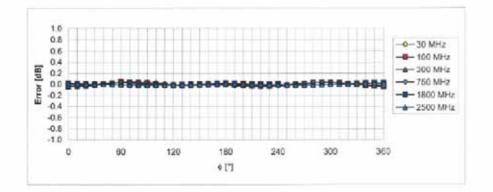


ET3DV6 SN:1788

September 30, 2004



Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$



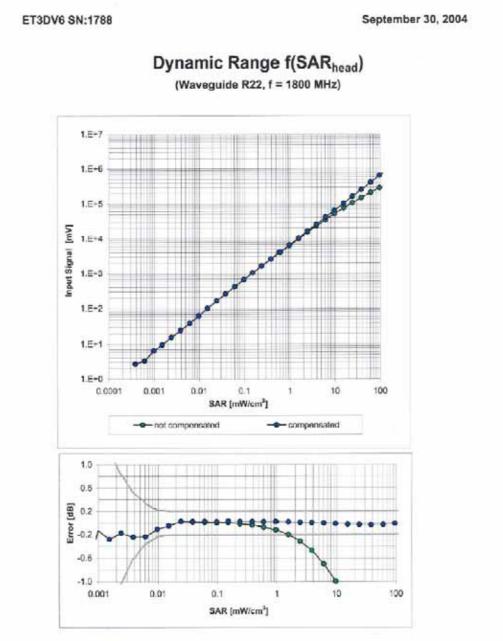
Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

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Uncertainty of Linearity Assessment: ± 0.6% (k=2)

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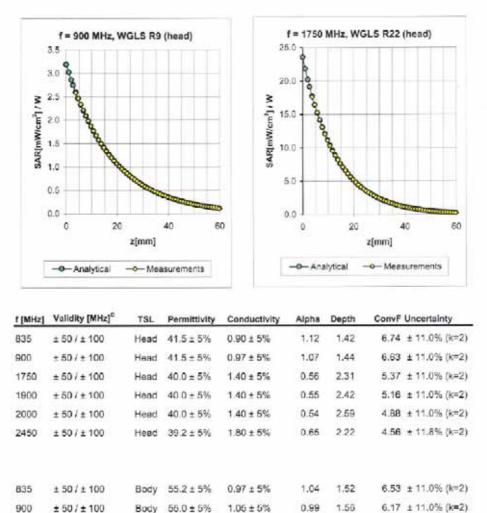
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ET3DV6 SN:1788

September 30, 2004



Conversion Factor Assessment

[©] The validity of ± 100 MHz only applies for DASY 4.3 B17 and higher (see Page 2). The uncertainty is the RSS

of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

Body 53.3 ± 5%

Body 53.3 ± 5%

Body 53.3 ± 5%

Body 52.7 ± 5%

Certificate No: ET3-1788_Sep04

± 50/±100

 $\pm 50/\pm 100$

± 50 / ± 100

 $\pm 50/\pm 100$

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 $1.52 \pm 5\%$

 $1.52 \pm 5\%$

 $1.52 \pm 5\%$

1.95 ± 5%

0.53

0.55

0.54

0.72

2.74

2.82

2.98

2.00

4.73 ± 11.0% (k=2) 4.56 ± 11.0% (k=2)

4.43 ± 11.0% (k=2)

4.26 ± 11.8% (k=2)

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1750

1900

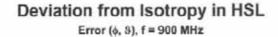
2000

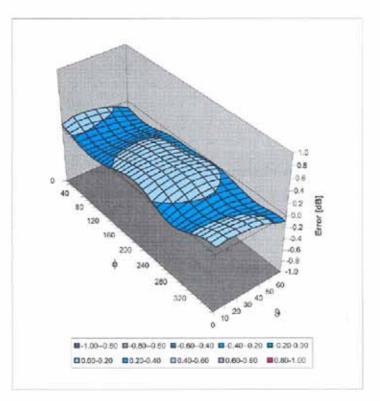
2450



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September 30, 2004





Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

Certificate No: ET3-1788_Sep04

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