EX3DV4-SN:3816

October 3, 2011

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3816

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity F	Conductivity (S/m)	ConvF X	ConvF Y	ConvF Z	Alpha	Depth (mm)	Unct. (k=2)
450	43.5	0.87	9.97	9.97	9.97	0.11	1.00	± 13.4 %
750	41.9	0.89	9.47	9.47	9.47	0.62	0.78	± 12.0 %
835	41.5	0.90	9.22	9.22	9.22	0.76	0.66	± 12.0 %
1450	40.5	1.20	8.58	8.58	8.58	0.65	0.77	± 12.0 %
1750	40.1	1.37	8.23	8.23	8.23	0.80	0.58	± 12.0 %
1900	40.0	1.40	7.90	7.90	7.90	0.80	0.57	± 12.0 %
2450	39.2	1.80	7.17	7.17	7.17	0.66	0.64	± 12.0 %
2600	39.0	1.96	7.06	7.06	7.06	0.64	0.67	± 12.0 %

^C Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

[®] At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

EX3DV4-SN:3816

October 3, 2011

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3816

Calibration Parameter Determined in Body Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha	Depth (mm)	Unct. (k=2)
450	56.7	0.94	10.83	10.83	10.83	0.02	1.00	± 13.4 %
750	55.5	0.96	9.50	9.50	9.50	0.80	0.70	± 12.0 %
835	55.2	0.97	9.38	9.38	9.38	0.68	0.69	± 12.0 %
1750	53.4	1.49	7.80	7.80	7.80	0.80	0.65	± 12.0 %
1900	53.3	1.52	7.51	7.51	7.51	0.80	0.65	± 12.0 %
2450	52.7	1.95	7.19	7.19	7.19	0.80	0.60	± 12.0 %
2600	52.5	2.16	7.14	7.14	7.14	0.80	0.59	± 12.0 %

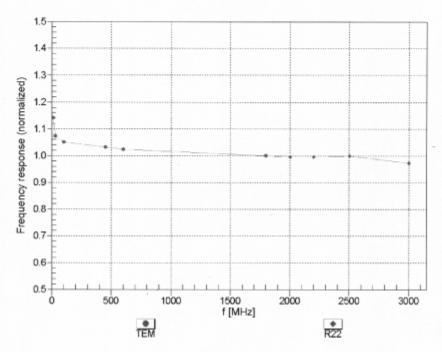
^C Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

At frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ε and σ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

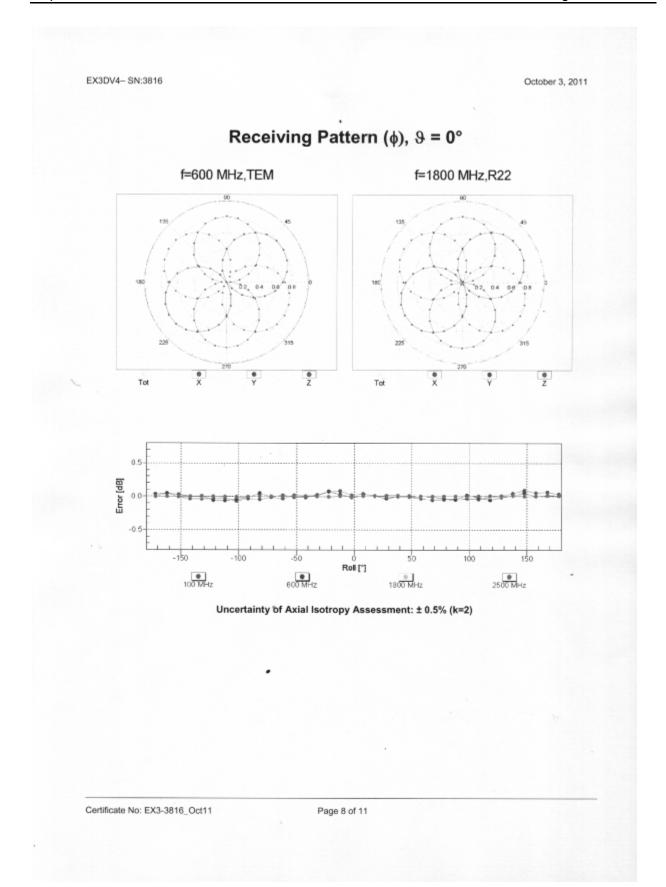
EX3DV4-SN:3816

October 3, 2011

Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)

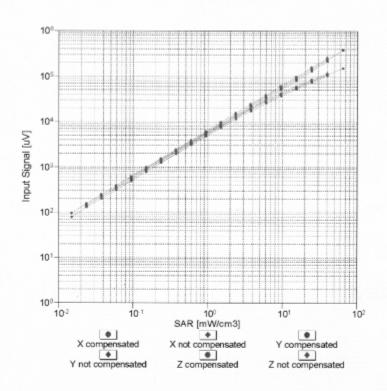


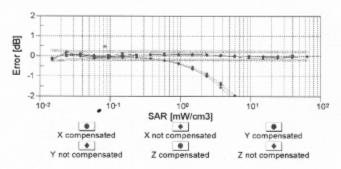
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)



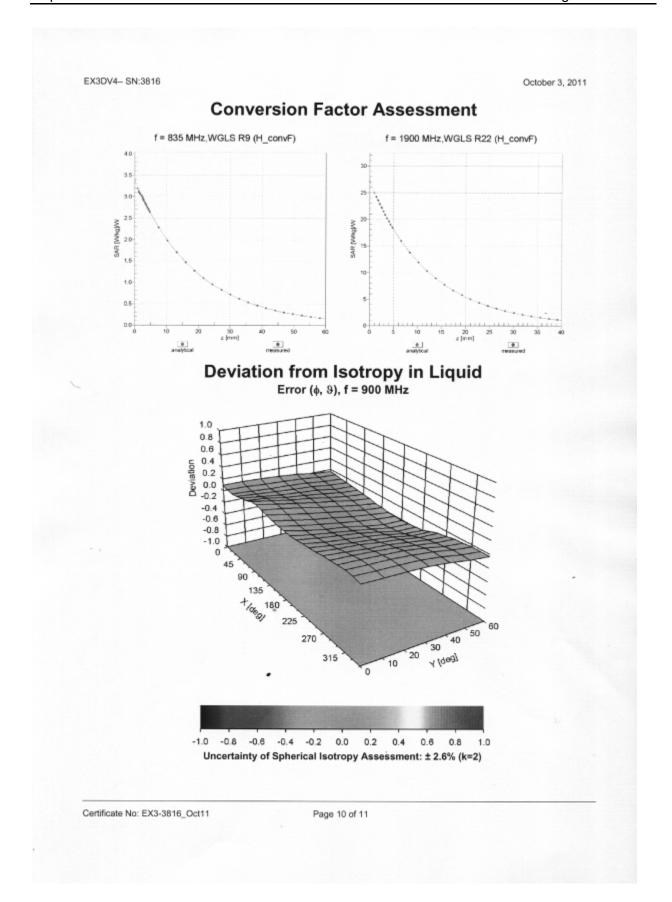
EX3DV4—SN:3816 October 3, 2011

Dynamic Range f(SAR_{head}) (TEM cell , f = 900 MHz)





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



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EX3DV4-SN:3816

October 3, 2011

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3816

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	Not applicable
Mechanical Surface Detection Mode	enabled
Optical Surface Detection Mode	disabled
Probe Overall Length	337 mm
Probe Body Diameter	10 mm
Tip Length	9 mm
Tip Diameter	-2.5 mm
Probe Tip to Sensor X Calibration Point	1 mm
Probe Tip to Sensor Y Calibration Point	1 mm
Probe Tip to Sensor Z Calibration Point	1 mm
Recommended Measurement Distance from Surface	2 mm

ANNEX E: D450V3 Dipole Calibration Certificate

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





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

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates Accreditation No.: SCS 108

CALIBRATION (CERTIFICATE		
Object	D450V3 - SN: 10	065	
Calibration procedure(s)	QA CAL-15.v5 Calibration Proce	edure for dipole validation kits below	w 800 MHz
Calibration date:	November 09, 20	010	
The measurements and the unco			
VI calibrations have been condu	cted in the closed laborato	ry facility: environment temperature (22 ± 3)°C a	
NI calibrations have been condu Calibration Equipment used (M& Primary Standards	cted in the closed laborato		
All calibrations have been condu Calibration Equipment used (M& Primary Standards Power meter E4419B	TE critical for calibration) ID # GB41293874	ry facility: environment temperature (22 ± 3)°C a Cal Date (Calibrated by, Certificate No.) 1-Apr-10 (No. 217-01030)	and humidity < 70%.
NI calibrations have been condu Calibration Equipment used (M& Primary Standards Power meter E4419B Power sensor E4412A	TE critical for calibration) ID # GB41293874 MY41495277	ry facility: environment temperature (22 ± 3)°C a Cal Date (Calibrated by, Certificate No.) 1-Apr-10 (No. 217-01030) 1-Apr-10 (No. 217-01030)	Scheduled Calibration Apr-11 Apr-11
All calibrations have been conducted (M& Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A	TE critical for calibration) ID # GB41293874 MY41495277 MY41498087	Cal Date (Calibrated by, Certificate No.) 1-Apr-10 (No. 217-01030) 1-Apr-10 (No. 217-01030) 1-Apr-10 (No. 217-01030)	Scheduled Calibration Apr-11 Apr-11 Apr-11
All calibrations have been conducted (M&Primary Standards Power meter E4419B Power sensor E4412A Reference 3 dB Attenuator	TE critical for calibration) ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c)	Cal Date (Calibrated by, Certificate No.) 1-Apr-10 (No. 217-01030) 1-Apr-10 (No. 217-01030) 1-Apr-10 (No. 217-01030) 31-Mar-10 (No. 217-01026)	Scheduled Calibration Apr-11 Apr-11 Apr-11 Mar-11
All calibrations have been conducted (M& Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator	TE critical for calibration) ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b)	Cal Date (Calibrated by, Certificate No.) 1-Apr-10 (No. 217-01030) 1-Apr-10 (No. 217-01030) 1-Apr-10 (No. 217-01030) 31-Mar-10 (No. 217-01026) 31-Mar-10 (No. 217-01028)	Scheduled Calibration Apr-11 Apr-11 Apr-11 Mar-11 Mar-11
Calibrations have been conducted (M& Primary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Type-N mismatch combination	TE critical for calibration) ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: 5047.2 / 06327	Cal Date (Calibrated by, Certificate No.) 1-Apr-10 (No. 217-01030) 1-Apr-10 (No. 217-01030) 1-Apr-10 (No. 217-01030) 31-Mar-10 (No. 217-01026) 31-Mar-10 (No. 217-01028) 31-Mar-10 (No. 217-01029)	Scheduled Calibration Apr-11 Apr-11 Apr-11 Mar-11 Mar-11 Mar-11
Calibrations have been conducted in Calibration Equipment used (M&Primary Standards Power meter E4419B Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ET3DV6 (LF)	TE critical for calibration) ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b)	Cal Date (Calibrated by, Certificate No.) 1-Apr-10 (No. 217-01030) 1-Apr-10 (No. 217-01030) 1-Apr-10 (No. 217-01030) 31-Mar-10 (No. 217-01026) 31-Mar-10 (No. 217-01028)	Scheduled Calibration Apr-11 Apr-11 Apr-11 Mar-11 Mar-11
All calibrations have been condu Calibration Equipment used (M& Primary Standards Power meter E4419B Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ET3DV6 (LF) DAE4 Secondary Standards	TE critical for calibration) ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: 5047.2 / 06327 SN: 1507	Cal Date (Calibrated by, Certificate No.) 1-Apr-10 (No. 217-01030) 1-Apr-10 (No. 217-01030) 1-Apr-10 (No. 217-01030) 31-Mar-10 (No. 217-01026) 31-Mar-10 (No. 217-01028) 31-Mar-10 (No. 217-01029) 03-Jul-10 (No. ET3-1507_Jul10)	Scheduled Calibration Apr-11 Apr-11 Apr-11 Mar-11 Mar-11 Mar-11 Jul-11
Calibrations have been conducted in Calibration Equipment used (M&Primary Standards Power meter E4419B Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ET3DV6 (LF) DAE4 Recondary Standards RF generator HP 8648C	TE critical for calibration) ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: 5047.2 / 06327 SN: 1507 SN: 654	Cal Date (Calibrated by, Certificate No.) 1-Apr-10 (No. 217-01030) 1-Apr-10 (No. 217-01030) 1-Apr-10 (No. 217-01030) 31-Mar-10 (No. 217-01026) 31-Mar-10 (No. 217-01028) 31-Mar-10 (No. 217-01029) 03-Jul-10 (No. ET3-1507_Jul10) 04-May-10 (No. DAE4-654_May10)	Scheduled Calibration Apr-11 Apr-11 Apr-11 Mar-11 Mar-11 Mar-11 Jul-11 May-11
Calibrations have been conducted in Calibration Equipment used (M&Primary Standards Power meter E4419B Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ET3DV6 (LF) DAE4 Secondary Standards RF generator HP 8648C	TE critical for calibration) ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5086 (20b) SN: 5047.2 / 06327 SN: 1507 SN: 654	Cal Date (Calibrated by, Certificate No.) 1-Apr-10 (No. 217-01030) 1-Apr-10 (No. 217-01030) 1-Apr-10 (No. 217-01030) 31-Mar-10 (No. 217-01026) 31-Mar-10 (No. 217-01028) 31-Mar-10 (No. 217-01029) 03-Jul-10 (No. ET3-1507_Jul10) 04-May-10 (No. DAE4-654_May10) Check Date (in house)	Scheduled Calibration Apr-11 Apr-11 Apr-11 Mar-11 Mar-11 Mar-11 Mar-11 Jul-11 May-11 Scheduled Check
All calibrations have been conductalibration Equipment used (M&Primary Standards Power meter E4419B Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ET3DV6 (LF) DAE4 Secondary Standards RF generator HP 8648C Network Analyzer HP 8753E	TE critical for calibration) ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5096 (20b) SN: 5047.2 / 06327 SN: 1507 SN: 654 ID # US3642U01700 US37390585 S4206 Name	Cal Date (Calibrated by, Certificate No.) 1-Apr-10 (No. 217-01030) 1-Apr-10 (No. 217-01030) 1-Apr-10 (No. 217-01030) 31-Mar-10 (No. 217-01026) 31-Mar-10 (No. 217-01028) 31-Mar-10 (No. 217-01029) 03-Jul-10 (No. ET3-1507_Jul10) 04-May-10 (No. DAE4-654_May10) Check Date (in house) 04-Aug-99 (in house check Oct-10)	Scheduled Calibration Apr-11 Apr-11 Apr-11 Mar-11 Mar-11 Mar-11 Jul-11 May-11 Scheduled Check In house check: Oct-11
All calibrations have been conductalibration Equipment used (M&Primary Standards Power meter E4419B Power sensor E4412A Reference 3 dB Attenuator Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ET3DV6 (LF) DAE4 Secondary Standards RF generator HP 8648C	TE critical for calibration) ID # GB41293874 MY41495277 MY41498087 SN: S5054 (3c) SN: S5096 (20b) SN: 5047.2 / 06327 SN: 1507 SN: 654 ID # US3642U01700 US37390585 S4206	Cal Date (Calibrated by, Certificate No.) 1-Apr-10 (No. 217-01030) 1-Apr-10 (No. 217-01030) 1-Apr-10 (No. 217-01030) 31-Mar-10 (No. 217-01026) 31-Mar-10 (No. 217-01028) 31-Mar-10 (No. 217-01028) 31-Mar-10 (No. 217-01029) 03-Jul-10 (No. ET3-1507_Jul10) 04-May-10 (No. DAE4-654_May10) Check Date (in house) 04-Aug-99 (in house check Oct-10) 18-Oct-01 (in house check Oct-10)	Scheduled Calibration Apr-11 Apr-11 Apr-11 Mar-11 Mar-11 Mar-11 Mar-11 Jul-11 May-11 Scheduled Check In house check: Oct-11 In house check: Oct-11

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: D450V3-1065_Nov10

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Calibration Laboratory of

Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





Schweizerischer Kalibrierdienst Service suisse d'étalonnage

C Service suisse d etaionnage
Servizio svizzero di taratura
S Swiss Calibration Service

Accreditation No.: SCS 108

Accredited by the Swiss Accreditation Service (SAS)

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

ConF

sensitivity in TSL / NORM x,y,z

N/A not applicable or not measured

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) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- c) Federal Communications Commission Office of Engineering & Technology (FCC OET), "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields; Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions", Supplement C (Edition 01-01) to Bulletin 65

Additional Documentation:

d) DASY4 System Handbook

Methods Applied and Interpretation of Parameters:

- Measurement Conditions: Further details are available from the Validation Report at the end
 of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- Antenna Parameters with TSL: The dipole is mounted with the spacer to position its feed
 point exactly below the center marking of the flat phantom section, with the arms eriented
 parallel to the body axis.
- Feed Point Impedance and Return Loss: These parameters are measured with the dipole
 positioned under the liquid filled phantom. The impedance stated is transformed from the
 measurement at the SMA connector to the feed point. The Return Loss ensures low
 reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point.
 No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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Measurement Conditions

DASY system configuration, as far as not given on page 1

DASY Version	DASY5	V5.2
Extrapolation	Advanced Extrapolation	
Phantom	ELI4 Flat Phantom	Shell thickness: 2 ± 0.2 mm
Distance Dipole Center - TSL	15 mm	with Spacer
Area Scan Resolution	dx, dy = 15 mm	
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	450 MHz ± 1 MHz	

Head TSL parameters
The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	43.5	-0.87 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	44.2 ± 6 %	0.86 mho/m ± 6 %
Head TSL temperature during test	(22.0 ± 0.2) °C		

SAR result with Head TSL

SAR averaged over 1 cm ³ (1 g) of Head TSL	condition	
SAR measured	398 mW input power	1.87 mW / g
SAR normalized	normalized to 1W	4.70 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	4.76 mW / g ± 18.1 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Head TSL	condition	
SAR measured	398 mW input power	1.25 mW / g
SAR normalized	normalized to 1W	3.14 mW / g
SAR for nominal Head TSL parameters	normalized to 1W	3.17 mW / g ± 17.6 % (k=2)

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Body TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	56.7	0.94 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	54.1 ± 6 %	0.90 mho/m ± 6 %
Body TSL temperature during test	(22.0 ± 0.2) °C		_

SAR result with Body TSL

SAR averaged over 1 cm ³ (1 g) of Body TSL	condition	
SAR measured	398 mW input power	1.77 mW / g
SAR normalized	normalized to 1W	4.37 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	4.51 mW / g ± 18.1 % (k=2)

SAR averaged over 10 cm ³ (10 g) of Body TSL	condition	
SAR measured	398 mW input power	1.18 mW / g
SAR normalized	normalized to 1W	2.94 mW / g
SAR for nominal Body TSL parameters	normalized to 1W	3.03 mW / g ± 17.6 % (k=2)

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Appendix

Antenna Parameters with Head TSL

Impedance, transformed to feed point	59.2 Ω - 4.9 jΩ	
Return Loss	- 20.5 dB	

Antenna Parameters with Body TSL

Impedance, transformed to feed point	56.5 Ω - 7.9 jΩ
Return Loss	- 20.4 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.354 ns

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

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.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG	
Manufactured on	July 16, 2010	

DASY5 Validation Report for Head TSL

Date/Time: 09.11.2010 10:36:58

Test Laboratory: The name of your organization

DUT: Dipole 450 MHz; Type: D450V3; Serial: D450V3 - SN:1065

Communication System: CW; Frequency: 450 MHz; Duty Cycle: 1:1

Medium: HSL450

Medium parameters used: f = 450 MHz; $\sigma = 0.86 \text{ mho/m}$; $\varepsilon_r = 44.2$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ET3DV6 SN1507 (LF); ConvF(6.66, 6.66, 6.66); Calibrated: 03.07.2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn654; Calibrated: 04.05.2010
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1003
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Pin=398mW /d=15mm /Area Scan (41x111x1): Measurement grid: dx=15mm, dy=15mm Maximum value of SAR (interpolated) = 1.99 mW/g

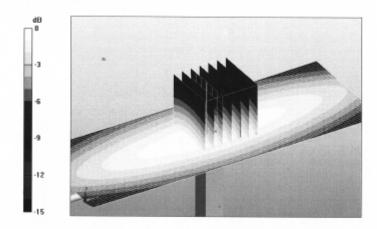
Pin=398mW /d=15mm /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 50.3 V/m; Power Drift = -0.00664 dB

Peak SAR (extrapolated) = 2.81 W/kg

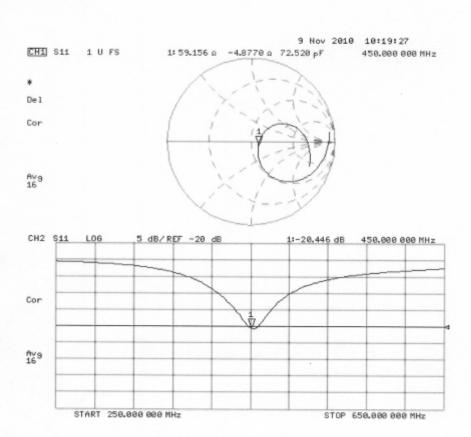
SAR(1 g) = 1.87 mW/g; SAR(10 g) = 1.25 mW/g

Maximum value of SAR (measured) = 2.01 mW/g



0 dB = 2.01 mW/g





DASY5 Validation Report for Body TSL

Date/Time: 09.11.2010 13:52:55

Test Laboratory: The name of your organization

DUT: Dipole 450 MHz; Type: D450V3; Serial: D450V3 - SN:1065

Communication System: CW; Frequency: 450 MHz; Duty Cycle: 1:1

Medium: MSL450

Medium parameters used: f = 450 MHz; $\sigma = 0.9 \text{ mho/m}$; $\varepsilon_f = 54.1$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY5 Configuration:

- Probe: ET3DV6 SN1507 (LF); ConvF(7.11, 7.11, 7.11); Calibrated: 03.07.2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn654; Calibrated: 04.05.2010
- Phantom: ELI 4.0; Type: QDOVA001BA; Serial: 1003
- Measurement SW: DASY5, V5.2 Build 157; SEMCAD X Version 14.0 Build 57

Pin=398mW /d=15mm /Area Scan (61x201x1): Measurement grid: dx=10mm, dy=10mm Maximum value of SAR (interpolated) = 1.89 mW/g

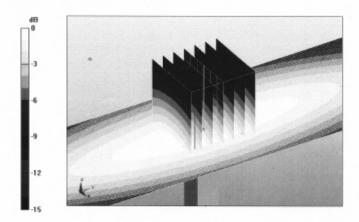
Pin=398mW /d=15mm, /Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 47.4 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 2.7 W/kg

SAR(1 g) = 1.77 mW/g; SAR(10 g) = 1.18 mW/g

Maximum value of SAR (measured) = 1.89 mW/g



0 dB = 1.89 mW/g