

February 19, 2016

# DASY/EASY - Parameters of Probe: EX3DV4 - SN:7307

anpration	Parameter De	etermined in	Head IIs	sue Simi	ulating Me	edia		
f (MHz) <sup>c</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
750	41.9	0.89	10.47	10.47	10.47	0.50	0.80	± 12.0 %
835	41.5	0.90	10.01	10.01	10.01	0.49	0.83	± 12.0 %
900	41.5	0.97	9.82	9.82	9.82	0.43	0.85	± 12.0 %
1450	40.5	1.20	8.72	8.72	8.72	0.43	0.80	± 12.0 %
1640	40.3	1.29	8.46	8.46	8.46	0.31	0.85	± 12.0 %
1750	40.1	1.37	8.37	8.37	8.37	0.39	0.80	± 12.0 %
1810	40.0	1.40	8.14	8.14	8.14	0.36	0.83	± 12.0 %
1900	40.0	1.40	8.10	8.10	8.10	0.34	0.85	± 12.0 %
2000	40.0	1.40	8.02	8.02	8.02	0.39	0.84	± 12.0 %
2100	39.8	1.49	8.22	8.22	8.22	0.31	0.85	± 12.0 %
2300	39.5	1.67	7.65	7.65	7.65	0.41	0.80	± 12.0 %
2450	39.2	1.80	7.36	7.36	7.36	0.44	0.80	± 12.0 %
2600	39.0	1.96	7.21	7.21	7.21	0.50	0.80	± 12.0 %
3500	37.9	2.91	7.11	7.11	7.11	0.45	0.89	± 13.1 %
3700	37.7	3.12	6.65	6.65	6.65	0.31	1.23	± 13.1 %
5200	36.0	4.66	5.32	5.32	5.32	0.35	1.80	± 13.1 %
5300	35.9	4.76	5.02	5.02	5.02	0.40	1.80	± 13.1 %
5500	35.6	4.96	4.85	4.85	4.85	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.52	4.52	4.52	0.45	1.80	± 13.1 %
5800	35.3	5.27	4.45	4.45	4.45	0.50	1.80	± 13.1 %

#### Calibration Parameter Determined in Head Tissue Simulating Media

<sup>C</sup> Frequency validity above 300 MHz 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. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity calibration formula is applied to ± 110 MHz.
<sup>F</sup> 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.
<sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

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# DASY/EASY - Parameters of Probe: EX3DV4 - SN:7307

andrauon	Parameter De	etermined in	Body Hs	sue Sim	ulating Me	edia		
f (MHz) <sup>c</sup>	Relative Permittivity <sup>F</sup>	Conductivity (S/m) <sup>F</sup>	ConvF X	ConvF Y	ConvF Z	Alpha <sup>G</sup>	Depth <sup>G</sup> (mm)	Unc (k=2)
750	55.5	0.96	9.93	9.93	9.93	0.48	0.83	± 12.0 %
835	55.2	0.97	9.83	9.83	9.83	0.36	0.94	± 12.0 %
900	55.0	1.05	9.90	9.90	9.90	0.45	0.84	± 12.0 %
1450	54.0	1.30	8.72	8.72	8.72	0.40	0.80	± 12.0 %
1640	53.8	1.40	8.69	8.69	8.69	0.39	0.84	± 12.0 %
1750	53.4	1.49	8.18	8.18	8.18	0.41	0.82	± 12.0 %
1810	53.3	1.52	7.82	7.82	7.82	0.46	0.81	± 12.0 %
1900	53.3	1.52	7.67	7.67	7.67	0.44	<u>0.8</u> 1	± 12.0 %
2000	53.3	1.52	7.83	7.83	7.83	0.40	0.80	± 12.0 %
2100	53.2	1.62	8.08	8.08	8.08	0.40	0.80	± 12.0 %
2300	52.9	1.81	7.41	7.41	7.41	0.39	0.80	± 12.0 %
2450	52.7	1.95	7.22	7.22	7.22	0.37	0.85	± 12.0 %
2600	52.5	2.16	7.03	7.03	7.03	0.40	0.80	± 12.0 %
3500	51.3	3.31	6.58	6.58	6.58	0.38	1.08	± 13.1 %
3700	51.0	3.55	6.47	6.47	6.47	0.33	1.28	± 13.1 %
5200	49.0	5.30	4.48	4.48	4.48	0.50	1.90	± 13.1 %
5300	48.9	5.42	4.29	4.29	4.29	0.50	<u>1.</u> 90	± 13.1 %
5500	48.6	5.65	3.97	3.97	3.97	0.55	1.90	± 13.1 %
5600	48.5	5.77	3.72	3.72	3.72	0.60	1.90	± 13.1 %
5800	48.2	6.00	3.91	3.91	3.91	0.60	1.90	± 13.1 %

<b>Calibration Parameter</b>	Determined in Bod	y Tissue Simulating Media
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<sup>C</sup> Frequency validity above 300 MHz 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. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Above 5 GHz frequency validity validity can be extended to ± 110 MHz.
<sup>F</sup> 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.
<sup>G</sup> Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.

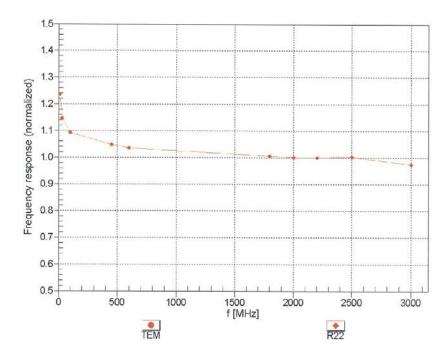
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## Frequency Response of E-Field (TEM-Cell:ifi110 EXX, Waveguide: R22)



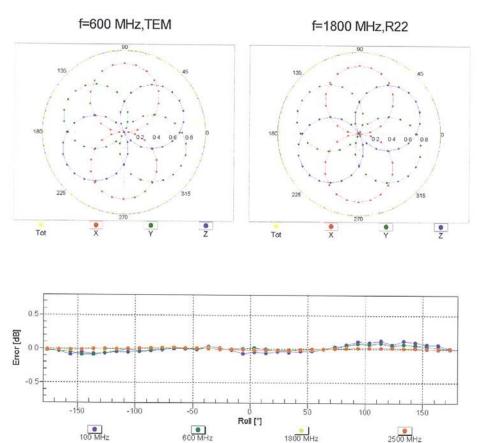
Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

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

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

1800 MHz

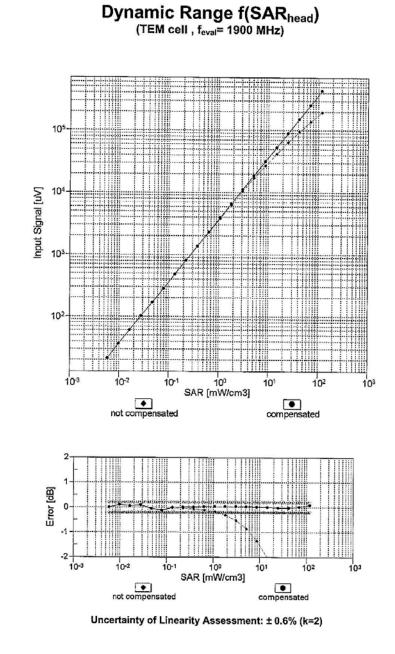
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2500 MHz



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f = 835 MHz, WGLS R9 (M\_convF) f = 1900 MHz,WGLS R22 (H\_convF) 3.5 30 3.0 25 2.5 25 M(BMM) 20 15 20 ISAR (Wing) YA 15 10 1.0 0.5 0.0 0 10 15 0 20 z [mm] 25 30 10 15 20 z [mm] 20 35 measured analytical analytical measured **Deviation from Isotropy in Liquid** Error ( $\phi$ ,  $\vartheta$ ), f = 900 MHz 1.0 0.8 0.6 Deviation 0.4 0.2 0.0 -0.4 -0.6 -0.8 -1.0 0 45 90 135 +100 180 225 60 10 20 30 40 Y [deg] 50 270 315 0 -1.0 -0.8 -0.6 -0.4 -0.2 0.0 0.2 0.4 0.6 0.8 1.0 Uncertainty of Spherical Isotropy Assessment: ± 2.6% (k=2)

**Conversion Factor Assessment** 

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# DASY/EASY - Parameters of Probe: EX3DV4 - SN:7307

#### Other Probe Parameters

43.6 enabled disabled
disabled
337 mm
10 mm
9 mm
2.5 mm
1 mm
1 mm
1 mm
1.4 mm

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# ANNEX H Dipole Calibration Certificate

## 835 MHz Dipole Calibration Certificate for 2015

Calibration Equipment used (M&1 Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3 DAE4 Secondary Standards RF generator R&S SMT-06 Network Analyzer HP 8753E Calibrated by:		Cal Date (Certificate No.)         07-Oct-14 (No. 217-02020)         07-Oct-14 (No. 217-02020)         07-Oct-14 (No. 217-02021)         01-Apr-15 (No. 217-02134)         30-Dec-14 (No. ES3-3205_Dec14)         18-Aug-14 (No. DAE4-601_Aug14)         Check Date (in house)         04-Aug-99 (in house check Oct-13)         18-Oct-01 (in house check Oct-14)         Function         Laboratory Technician	Scheduled Calibration Oct-15 Oct-15 Oct-15 Oct-15 Mar-16 Dec-15 Aug-15 Scheduled Check In house check: Oct-16 In house check: Oct-16 Signature
Calibration Equipment used (M&T Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3 DAE4 Secondary Standards RF generator R&S SMT-06	TE critical for calibration) ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 601 ID # 100005	Cal Date (Certificate No.)           07-Oct-14 (No. 217-02020)           07-Oct-14 (No. 217-02020)           07-Oct-14 (No. 217-02021)           01-Apr-15 (No. 217-02131)           01-Apr-15 (No. 217-02134)           30-Dec-14 (No. ES3-3205_Dec14)           18-Aug-14 (No. DAE4-601_Aug14)           Check Date (in house)           04-Aug-99 (in house check Oct-13)	Scheduled Calibration Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-15 Scheduled Check In house check: Oct-16
Calibration Equipment used (M&T Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3 DAE4 Secondary Standards RF generator R&S SMT-06	TE critical for calibration) ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 601 ID # 100005	Cal Date (Certificate No.)           07-Oct-14 (No. 217-02020)           07-Oct-14 (No. 217-02020)           07-Oct-14 (No. 217-02021)           01-Apr-15 (No. 217-02131)           01-Apr-15 (No. 217-02134)           30-Dec-14 (No. ES3-3205_Dec14)           18-Aug-14 (No. DAE4-601_Aug14)           Check Date (in house)           04-Aug-99 (in house check Oct-13)	Scheduled Calibration Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-15 Scheduled Check In house check: Oct-16
Calibration Equipment used (M&T Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Fype-N mismatch combination Reference Probe ES3DV3 DAE4 Secondary Standards	TE critical for calibration) ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 3205 SN: 601 ID #	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Dec-14 (No. E33-3205_Dec14) 18-Aug-14 (No. DAE4-601_Aug14) Check Date (in house)	Scheduled Calibration Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-15 Scheduled Check
Calibration Equipment used (M&T Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3 DAE4	TE critical for calibration) ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 3205 SN: 601	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Dec-14 (No. ES3-3205_Dec14) 18-Aug-14 (No. DAE4-601_Aug14)	Scheduled Calibration Oct-15 Oct-15 Oct-15 Mar-16 Mar-16 Dec-15 Aug-15
Calibration Equipment used (M&T Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination Reference Probe ES3DV3	TE critical for calibration) ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5047.2 / 06327 SN: 3205	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134) 30-Dec-14 (No. ES3-3205_Dec14)	Scheduled Calibration Oct-15 Oct-15 Mar-16 Mar-16 Dec-15
Calibration Equipment used (M&T Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator Type-N mismatch combination	TE critical for calibration) ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k) SN: 5057.2 / 06327	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131) 01-Apr-15 (No. 217-02134)	Scheduled Calibration Oct-15 Oct-15 Mar-16 Mar-16
Calibration Equipment used (M&T Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A Reference 20 dB Attenuator	TE critical for calibration) ID # GB37480704 US37292783 MY41092317 SN: 5058 (20k)	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021) 01-Apr-15 (No. 217-02131)	Scheduled Calibration Oct-15 Oct-15 Oct-15 Mar-16
Calibration Equipment used (M&T Primary Standards Power meter EPM-442A Power sensor HP 8481A Power sensor HP 8481A	TE critical for calibration) ID # GB37480704 US37292783 MY41092317	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02021)	Scheduled Calibration Oct-15 Oct-15 Oct-15
Calibration Equipment used (M&T Primary Standards Power meter EPM-442A Power sensor HP 8481A	TE critical for calibration) ID # GB37480704 US37292783	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020) 07-Oct-14 (No. 217-02020)	Scheduled Calibration Oct-15 Oct-15
Calibration Equipment used (M&1 Primary Standards Power meter EPM-442A	TE critical for calibration)	Cal Date (Certificate No.) 07-Oct-14 (No. 217-02020)	Scheduled Calibration Oct-15
Calibration Equipment used (M&T Primary Standards	TE critical for calibration)	Cal Date (Certificate No.)	Scheduled Calibration
Calibration Equipment used (M&T	TE critical for calibration)		
		y racinty. environment temperature (22 ± 3) v	C and humidity < 70%.
The measurements and the unce	rtainties with confidence p	onal standards, which realize the physical un robability are given on the following pages an y facility: environment temperature (22 ± 3)°(	d are part of the certificate.
Calibration date:	July 23, 2015		
	hub 02 0015		
	Calibration proces		
Calibration procedure(s)	QA CAL-05.v9	dure for dipole validation kits abc	We 700 MHz
Dbject	D835V2 - SN: 4d	069	
CALIBRATION C	ERIIFICATE		
			: 000072-40009_00110
he Swiss Accreditation Service Iultilateral Agreement for the re Client CTTL (Auden)	-	certificates	: D835V2-4d069 Jul15
ccredited by the Swiss Accreditat			creditation No.: SCS 0108
	tion Convice (CAC)		
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Certificate No: D835V2-4d069\_Jul15

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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'étalonnage Servizio svizzero di taratura

S

Swiss Calibration Service

Accreditation No.: SCS 0108

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:

are coury.	
TSL	tissue simulating liquid
ConvF	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 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013
- 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) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### Additional Documentation:

e) DASY4/5 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 oriented
  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.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

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#### **Measurement Conditions**

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

DASY Version	DASY5	V52.8.8
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	835 MHz ± 1 MHz	

Head TSL parameters The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.5	0.90 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	42.4 ± 6 %	0.92 mho/m ± 6 %
Head TSL temperature change during test	< 0.5 °C		

### SAR result with Head TSL

SAR averaged over 1 cm <sup>3</sup> (1 g) of Head TSL	Condition	
SAR measured	250 mW input power	2.28 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	9.01 W/kg ± 17.0 % (k=2)
SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR measured	250 mW input power	1.48 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	5.86 W/kg ± 16.5 % (k=2)

#### **Body TSL parameters**

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Body TSL parameters	22.0 °C	55.2	0.97 mho/m
Measured Body TSL parameters	(22.0 ± 0.2) °C	54.9 ± 6 %	1.00 mho/m ± 6 %
Body TSL temperature change during test	< 0.5 °C		

#### SAR result with Body TSL

SAR averaged over 1 $\mbox{cm}^3$ (1 g) of Body TSL	Condition	
SAR measured	250 mW input power	2.38 W/kg
SAR for nominal Body TSL parameters	normalized to 1W	9.29 W/kg ± 17.0 % (k=2)
SAR averaged over 10 cm <sup>3</sup> (10 g) of Body TSL	condition	
SAR averaged over 10 cm <sup>3</sup> (10 g) of Body TSL SAR measured	condition 250 mW input power	1.56 W/kg

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#### Appendix (Additional assessments outside the scope of SCS 0108)

#### Antenna Parameters with Head TSL

Impedance, transformed to feed point	52.4 Ω + 0.4 jΩ
Return Loss	- 32.3 dB

#### Antenna Parameters with Body TSL

Impedance, transformed to feed p	oint	49.4 Ω - 1.3 jΩ
Return Loss		- 36.7 dB

#### **General Antenna Parameters and Design**

[	Electrical Delay (one direction)	1.393 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. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

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	November 09, 2007



#### **DASY5 Validation Report for Head TSL**

Date: 22.07.2015

Test Laboratory: SPEAG, Zurich, Switzerland

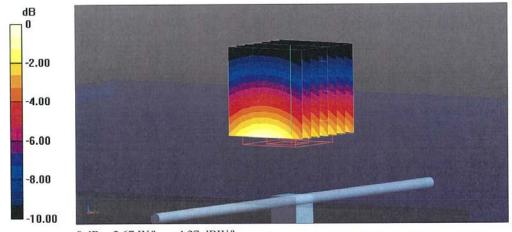
#### DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d069

Communication System: UID 0 - CW; Frequency: 835 MHz Medium parameters used: f = 835 MHz;  $\sigma$  = 0.92 S/m;  $\epsilon_r$  = 42.4;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: ES3DV3 SN3205; ConvF(6.2, 6.2, 6.2); Calibrated: 30.12.2014;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 18.08.2014
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.8(1222); SEMCAD X 14.6.10(7331)

#### Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 55.69 V/m; Power Drift = 0.00 dB Peak SAR (extrapolated) = 3.40 W/kg SAR(1 g) = 2.28 W/kg; SAR(10 g) = 1.48 W/kg Maximum value of SAR (measured) = 2.67 W/kg



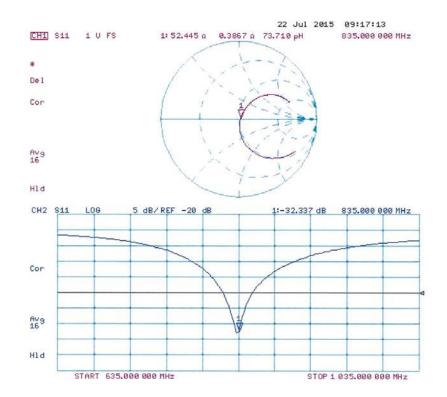
0 dB = 2.67 W/kg = 4.27 dBW/kg

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#### Impedance Measurement Plot for Head TSL



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