



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



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

Accreditation No.: SCS 0108

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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
ConvF	sensitivity in TSL / NORM x,y,z
N/A	not applicable or not measured

# Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### Additional Documentation:

c) DASY 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 source is mounted in a touch configuration below the center marking of the flat phantom.
- Return Loss: This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. 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	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	15 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	750 MHz ± 1 MHz	

# Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	41.9	0.89 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	42.4 ± 6 %	0.91 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	2.20 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	8.68 W/kg ± 17.0 % (k=2)
SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL SAR measured	condition 250 mW input power	1.43 W/kg
		1.43 W/kg 5.65 W/kg ± 16.5 % (k=2)

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

#### Antenna Parameters with Head TSL

Impedance, transformed to feed point	53.8 Ω - 0.2 jΩ	
Return Loss	- 28.8 dB	

# General Antenna Parameters and Design

Electrical Delay (one direction)	1.036 ns	
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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**

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Manufactured by	SPEAG

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

Date: 12.07.2021

Test Laboratory: SPEAG, Zurich, Switzerland

# DUT: Dipole 750 MHz; Type: D750V3; Serial: D750V3 - SN:1017

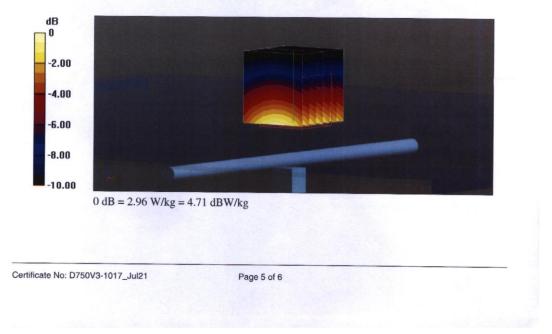
Communication System: UID 0 - CW; Frequency: 750 MHz Medium parameters used: f = 750 MHz;  $\sigma = 0.91$  S/m;  $\varepsilon_r = 42.4$ ;  $\rho = 1000$  kg/m<sup>3</sup> Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(10.11, 10.11, 10.11) @ 750 MHz; Calibrated: 28.12.2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 02.11.2020
- Phantom: Flat Phantom 4.9 (front); Type: QD 00L P49 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

# 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 = 60.01 V/m; Power Drift = -0.01 dB Peak SAR (extrapolated) = 3.39 W/kg SAR(1 g) = 2.20 W/kg; SAR(10 g) = 1.43 W/kg Smallest distance from peaks to all points 3 dB below = 16 mm Ratio of SAR at M2 to SAR at M1 = 64.8% Maximum value of SAR (measured) = 2.96 W/kg







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# Impedance Measurement Plot for Head TSL

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# 2450 MHz Dipole Calibration Certificate

CALIBRATION CERTIFICATE       Dbject     D2450V2 - SN:853       Calibration procedure(s)     QA CAL-05.v11 Calibration Procedure for SAR Validation Sources between 0.7-3 GHz       Calibration date:     July 26, 2021       This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.       All calibration Equipment used (M&TE critical for calibration)       Primary Standards     D #       Over sensor NRP-Z91     SN: 103244     09-Apr-21 (No. 217-03291)       Nower sensor NRP-Z91     SN: 103245     09-Apr-21 (No. 217-03291)     Apr-22       Yower sensor NRP-Z91     SN: 103245     09-Apr-21 (No. 217-03291)     Apr-22       Yower sensor NRP-Z91     SN: 103245     09-Apr-21 (No. 217-03244)     Apr-22       Yower sensor NRP-Z91     SN: 103245     09-Apr-21 (No. 217-03244)     Apr-22       Yower sensor NRP-Z91     SN: 103245     09-Apr-21 (No. 217-03344)     Apr-22       Yower sensor NRP-Z91     SN: 103245     09-Apr-21 (No. 217-03344)     Apr-22       Yower sensor NRP-Z91     SN: 501     02-Nov-20 (No. DAE4-601_Nov20)     Nov-21
CTTL (Auden)   Certificate No: D2450V2-853_Juli     CALIBRATION CERTIFICATE     Doject   D2450V2 - SN:853     Calibration procedure(s)   QA CAL-05,v11 Calibration Procedure for SAR Validation Sources between 0.7-3 GHz     Calibration date:   July 26, 2021     This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.     Allibration Equipment used (M&TE critical for calibration)     Primary Standards   D#     Cal Date (Certificate No.)   Scheduled Calibration     Primary Standards   D#     SN: 103244   09-Apr-21 (No. 217-03291)   Apr-22     Prover sensor NRP-291   SN: 103245   09-Apr-21 (No. 217-03291)   Apr-22     Prover sensor NRP-291   SN: 103245   09-Apr-21 (No. 217-03292)   Apr-22     Prover sensor NRP-291   SN: 103245   09-Apr-21 (No. 217-03291)   Apr-22     Prover Sensor NRP-291   SN: 103245   09-Apr-21 (No. 217-03343)   Apr-22     Prover Sensor NRP-291   SN: 103245   09-Apr-21 (No. 217-03344)   Apr-22     SN: 601   02-Nov-20 (No. DAE4-601_Nov20)   Nov-21
CALIBRATION CERTIFICATE       Dobject     D2450V2 - SN:853       Calibration procedure(s)     CA CAL-05.v11 Calibration Procedure for SAR Validation Sources between 0.7-3 GHz       Calibration date:     July 26, 2021       This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.       NI calibration Equipment used (M&TE critical for calibration)       Primary Standards     ID #     Cal Date (Certificate No.)     Scheduled Calibration 9-Apr-21 (No. 217-03291/03292)     Apr-22       Primary Standards     ID #     Cal Date (Certificate No.)     Scheduled Calibration 9-Apr-21 (No. 217-03291/03292)     Apr-22       Power sensor NRP-Z91     SN: 103244     09-Apr-21 (No. 217-03291/03292)     Apr-22       Power sensor NRP-Z91     SN: 103245     09-Apr-21 (No. 217-0324)     Apr-22       Pareference 20 dB Attenuator     SN: 810982 / 06327     09-Apr-21 (No. 217-0324)     Apr-22       SN: 601     02-Nov-20 (No. DAE4-601_Nov20)     Nov 21       Secondary Standards     D#     Check Date (in house)     Scheduled Check       Power meanor NRP-Z91     SN: 6039512475     30
Calibration procedure(s)   QA CAL-05.v11 Calibration Procedure for SAR Validation Sources between 0.7-3 GHz     Calibration date:   July 26, 2021     This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.     All calibration shave been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.     Calibration Equipment used (M&TE critical for calibration)     Primary Standards   ID #   Cal Date (Certificate No.)   Scheduled Calibration     Power sensor NRP-Z91   SN: 104778   09-Apr-21 (No. 217-03291/03292)   Apr-22     Power sensor NRP-Z91   SN: 103245   09-Apr-21 (No. 217-03291)   Apr-22     Power sensor NRP-Z91   SN: 103245   09-Apr-21 (No. 217-03292)   Apr-22     Pipe-Reference 20 dB Attenuator   SN: 810982 (06)   09-Apr-21 (No. 217-03343)   Apr-22     Figherence Probe EX3DV4   SN: 601   02-Nov-20 (No. DAE4-601_Nov20)   Nov-21     Secondary Standards   ID #   Check Date (in house)   Scheduled Check     Power meter E4419B   SN: US37292783   07-Oct-15 (in house check Oct-20)   In house check: Oct-20     Power meter E4
Calibration procedure(s)   QA CAL-05.v11 Calibration Procedure for SAR Validation Sources between 0.7-3 GHz     Calibration date:   July 26, 2021     This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.     All calibration shave been conducted in the closed laboratory facility: environment temperature (22 ± 3)°C and humidity < 70%.     Calibration Equipment used (M&TE critical for calibration)     Primary Standards   ID #   Cal Date (Certificate No.)   Scheduled Calibration     Power sensor NRP-Z91   SN: 104778   09-Apr-21 (No. 217-03291/03292)   Apr-22     Power sensor NRP-Z91   SN: 103245   09-Apr-21 (No. 217-03291)   Apr-22     Power sensor NRP-Z91   SN: 103245   09-Apr-21 (No. 217-03292)   Apr-22     Pipe-Reference 20 dB Attenuator   SN: 810982 (06)   09-Apr-21 (No. 217-03343)   Apr-22     Figherence Probe EX3DV4   SN: 601   02-Nov-20 (No. DAE4-601_Nov20)   Nov-21     Secondary Standards   ID #   Check Date (in house)   Scheduled Check     Power meter E4419B   SN: US37292783   07-Oct-15 (in house check Oct-20)   In house check: Oct-20     Power meter E4
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Power meter NRP     SN: 104778     09-Apr-21 (No. 217-03291/03292)     Apr-22       Power sensor NRP-Z91     SN: 103244     09-Apr-21 (No. 217-03291)     Apr-22       Power sensor NRP-Z91     SN: 103245     09-Apr-21 (No. 217-03292)     Apr-22       Reference 20 dB Attenuator     SN: 8H9394 (20k)     09-Apr-21 (No. 217-03343)     Apr-22       Type-N mismatch combination     SN: 310982 / 06327     09-Apr-21 (No. 217-03344)     Apr-22       Reference Probe EX3DV4     SN: 7349     28-Dec-20 (No. EX3-7349_Dec20)     Dec-21       DAE4     SN: 601     02-Nov-20 (No. DAE4-601_Nov20)     Nov-21       Secondary Standards     ID #     Check Date (in house)     Scheduled Check       Power sensor HP 8481A     SN: US37292783     07-Oct-15 (in house check Oct-20)     In house check: Oct-20       Power sensor HP 8481A     SN: MY41092317     07-Oct-15 (in house check Oct-20)     In house check: Oct-20
Power sensor NRP-Z91     SN: 103244     09-Apr-21 (No. 217-03291)     Apr-22       Power sensor NRP-Z91     SN: 103245     09-Apr-21 (No. 217-03292)     Apr-22       Reference 20 dB Attenuator     SN: 8H9394 (20k)     09-Apr-21 (No. 217-03343)     Apr-22       Sype-N mismatch combination     SN: 310982 / 06327     09-Apr-21 (No. 217-03344)     Apr-22       Reference Probe EX3DV4     SN: 7349     28-Dec-20 (No. EX3-7349_Dec20)     Dec-21       DAE4     SN: 601     02-Nov-20 (No. DAE4-601_Nov20)     Nov-21       Secondary Standards     ID #     Check Date (in house)     Scheduled Check       Power meter E4419B     SN: GB39512475     30-Oct-14 (in house check Oct-20)     In house check: Oct-20       Power sensor HP 8481A     SN: W37292783     07-Oct-15 (in house check Oct-20)     In house check: Oct-20       Power sensor HP 8481A     SN: MY41092317     07-Oct-15 (in house check Oct-20)     In house check: Oct-20
Power sensor NRP-Z91     SN: 103245     09-Apr-21 (No. 217-03292)     Apr-22       Reference 20 dB Attenuator     SN: BH9394 (20k)     09-Apr-21 (No. 217-03343)     Apr-22       Type-N mismatch combination     SN: 310982 / 06327     09-Apr-21 (No. 217-03344)     Apr-22       Reference Probe EX3DV4     SN: 7349     28-Dec-20 (No. EX3-7349_Dec20)     Dec-21       DAE4     SN: 601     02-Nov-20 (No. DAE4-601_Nov20)     Nov-21       Secondary Standards     ID #     Check Date (in house)     Scheduled Check       Power meter E4419B     SN: GB39512475     30-Oct-14 (in house check Oct-20)     In house check: Oct-20       Power sensor HP 8481A     SN: WY41092317     07-Oct-15 (in house check Oct-20)     In house check: Oct-20)
Beference 20 dB Attenuator     SN: BH9394 (20k)     09-Apr-21 (No. 217-03343)     Apr-22       Type-N mismatch combination     SN: 310982 / 06327     09-Apr-21 (No. 217-03344)     Apr-22       SN: 310982 / 06327     09-Apr-21 (No. 217-03344)     Apr-22       SN: 310982 / 06327     09-Apr-21 (No. 217-03344)     Apr-22       SN: 601     02-Nov-20 (No. EX3-7349_Dec20)     Dec-21       Secondary Standards     ID #     Check Date (in house)     Nov-21       Secondary Standards     ID #     Check Date (in house)     Scheduled Check       ower meter E4419B     SN: GB39512475     30-Oct-14 (in house check Oct-20)     In house check: Oct-20       ower sensor HP 8481A     SN: US37292783     07-Oct-15 (in house check Oct-20)     In house check: Oct-20)       ower sensor HP 8481A     SN: MY41092317     07-Oct-15 (in house check Oct-20)     In house check: Oct-20)
Expension     SN: 310982 / 06327     09-Apr-21 (No. 217-03344)     Apr-22       Reference Probe EX3DV4     SN: 7349     28-Dec-20 (No. EX3-7349_Dec20)     Dec-21       DAE4     SN: 601     02-Nov-20 (No. DAE4-601_Nov20)     Nov-21       Secondary Standards     ID #     Check Date (In house)     Scheduled Check       ower meter E4419B     SN: GB39512475     30-Oct-14 (in house check Oct-20)     In house check: Oct-20       ower sensor HP 8481A     SN: US37292783     07-Oct-15 (in house check Oct-20)     In house check: Oct-20)       ower sensor HP 8481A     SN: MY41092317     07-Oct-15 (in house check Oct-20)     In house check: Oct-20)
DAE4     SN: 601     02-Nov-20 (No. DAE4-601_Nov20)     Nov-21       Secondary Standards     ID #     Check Date (in house)     Scheduled Check       Power meter E4419B     SN: GB39512475     30-Oct-14 (in house check Oct-20)     In house check: Oct-2       Power sensor HP 8481A     SN: US37292783     07-Oct-15 (in house check Oct-20)     In house check: Oct-2       Power sensor HP 8481A     SN: MY41092317     07-Oct-15 (in house check Oct-20)     In house check: Oct-2
Secondary Standards     ID #     Check Date (in house)     Scheduled Check       Power meter E4419B     SN: GB39512475     30-Oct-14 (in house check Oct-20)     In house check: Oct-2       Power sensor HP 8481A     SN: US37292783     07-Oct-15 (in house check Oct-20)     In house check: Oct-2       Power sensor HP 8481A     SN: MY41092317     07-Oct-15 (in house check Oct-20)     In house check: Oct-2
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Power sensor HP 8481A     SN: US37292783     07-Oct-15 (in house check Oct-20)     In house check: Oct-2       Power sensor HP 8481A     SN: MY41092317     07-Oct-15 (in house check Oct-20)     In house check: Oct-2
Power sensor HP 8481A SN: MY41092317 07-Oct-15 (in house check Oct-20) In house check: Oct-2
RF generator R&S SMT-06 SN: 100972 15-Jun-15 (in house check Oct-20) In house check: Oct-2
Network Analyzer Agilent E8358A SN: US41080477 31-Mar-14 (in house check Oct-20) In house check: Oct-2
Name Function Signature
Calibrated by: Michael Weber Laboratory Technician
Approved by: Katja Pokovic Technical Manager





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



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

Swiss Calibration Service

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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:

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) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

#### Additional Documentation:

c) DASY 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 source is mounted in a touch configuration below the • center marking of the flat phantom.
- Return Loss: This parameter is measured with the source positioned under the liquid filled . phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. 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	DASY52	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with Spacer
Zoom Scan Resolution	dx, dy, dz = 5 mm	
Frequency	2450 MHz ± 1 MHz	

# Head TSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal Head TSL parameters	22.0 °C	39.2	1.80 mho/m
Measured Head TSL parameters	(22.0 ± 0.2) °C	37.9 ± 6 %	1.88 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	13.7 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	53.3 W/kg ± 17.0 % (k=2)
SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL	condition	
SAR averaged over 10 cm <sup>3</sup> (10 g) of Head TSL SAR measured	condition 250 mW input power	6.33 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	53.6 Ω + 3.8 jΩ	
Return Loss	- 25.9 dB	

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

1.164 ns	
	1.164 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

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

Date: 26.07.2021

Test Laboratory: SPEAG, Zurich, Switzerland

#### DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN: 853

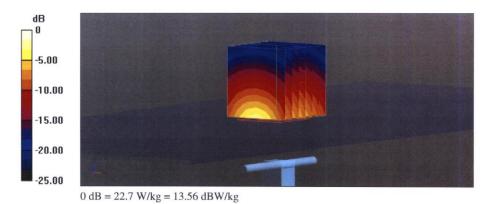
Communication System: UID 0 - CW; Frequency: 2450 MHz Medium parameters used: f = 2450 MHz;  $\sigma$  = 1.88 S/m;  $\varepsilon_r$  = 37.9;  $\rho$  = 1000 kg/m<sup>3</sup> Phantom section: Flat Section Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 SN7349; ConvF(7.96, 7.96, 7.96) @ 2450 MHz; Calibrated: 28.12.2020
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 02.11.2020
- · Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

#### Dipole Calibration for Head Tissue/Pin=250 mW, d=10mm/Zoom Scan (7x7x7)/Cube 0:

Measurement grid: dx=5mm, dy=5mm, dz=5mm Reference Value = 116.2 V/m; Power Drift = 0.09 dB Peak SAR (extrapolated) = 27.4 W/kg SAR(1 g) = 13.7 W/kg; SAR(10 g) = 6.33 W/kg Smallest distance from peaks to all points 3 dB below = 9 mm Ratio of SAR at M2 to SAR at M1 = 50% Maximum value of SAR (measured) = 22.7 W/kg



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					4	$\langle \rangle$	Æ	77/2		)0 GHz 7.83 pH )0 GHz	53.578 Ω 3.8150 Ω 50.464 mU 44.725 °
					Ę	F					
		Ch 1 Aug =	20			X	+	X			
	Ch1: Sta	Ch 1 Avg = art 2.25000		_		×	¥	Z			Stop 2.65000 GH:
10.0	00			_		×	×	>1	2.4500	00 GHz	Stop 2.65000 GH: -25.940 dE
_	0	art 2.25000		_			+	>1	2.45000	JO GHz	
10.0	0	art 2.25000		_				>1	2.45000	JO GHz	
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Impedance Measurement Plot for Head TSL

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# ANNEX J Accreditation Certificate

