

Page: 1 of 21

Appendix G

Phantom Description

Schmid & Partner Engineering AG

е a g

Zeughausstrasse 43, 8004 Zurich, Switzerland Phone +41 44 245 9700, Fax +41 44 245 9779 info@speag.com, http://www.speag.com

Certificate of Conformity / First Article Inspection

| Item | Oval Flat Phantom ELI 5.0 |
|--------------|--|
| Type No | QD OVA 002 A |
| Series No | 1108 and higher |
| Manufacturer | Untersee Composites |
| | Knebelstrasse 8, CH-8268 Mannenbach, Switzerland |

Tests

Complete tests were made on the prototype units QD OVA 001 A, pre-series units QD OVA 001 B as well as on some series units QD OVA 001 B. Some tests are made on all series units QD OVA 002 A.

| Test | Requirement | Details | Units tested |
|-------------------------|---|---|---------------------------------|
| Shape | Internal dimensions, depth and sagging are compatible with standards | Bottom elliptical 600 x 400 mm, Depth 190 mm, dimension compliant with [1] for f > 375 MHz | Prototypes |
| Material thickness | Bottom: 2.0mm +/- 0.2mm | dimension compliant with [3] for f > 800 MHz | all |
| Material parameters | rel. permittivity 2 – 5, loss tangent ≤ 0.05, at f ≤ 6 GHz | rel. permittivity 3.5 +/- 0.5 loss tangent ≤ 0.05 | Material samples |
| Material resistivity | Compatibility with tissue simulating liquids . | Compatible with SPEAG liquids. ** | Phantoms, Material sample |
| Sagging | Sagging of the flat section in tolerance when filled with tissue simulating liquid. | within tolerance for filling height up to 155 mm | Prototypes, samples |

Note: Compatibility restrictions apply certain liquid components mentioned in the standard. containing e.g. DGBE, DGMHE or Triton X-100. Observe technical note on material compatibility.

- [1] OET Bulletin 65, Supplement C, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields", Edition 01-01
 [2] IEEE 1528-2003, "Recommended Practice for Determining the Peak Spatial-Average Specific
- Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques, December 2003
- [3] IEC 62209-1 ed1.0, "Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close
- proximity to the ear (frequency range of 300 MHz to 3 GHz)", 2005-02-18
 [4] IEC 62209-2 ed1.0, "Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 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)", 2010-03-30

Conformity

Based on the sample tests above, we certify that this item is in compliance with the uncertainty requirements of body-worn SAR measurements and system performance checks as specified in [1 - 4] and further standards.

25.7.2011

Signature / Stamp

Doc No 881 - QD OVA 002 A - A

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1 (1)

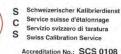


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System Validation from Original Equipment Supplier

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





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Multilateral Agreement for the recognition of calibration certificates

Client SGS

Certificate No. D2450V2-727_Apr23

Taoyuan City, Taiwan CALIBRATION CERTIFICATE D2450V2 - SN:727 Calibration procedure(s) QA CAL-05.v12 Calibration Procedure for SAR Validation Sources between 0.7-3 GHz Calibration date April 25, 2023 This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI). nents and the uncertainties with confidence probability are given on the following pages and are part of the certificate. All calibrations have 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 Cal Date (Certificate No.) Scheduled Calibration Power meter NRP2 SN: 104778 30-Mar-23 (No. 217-03804/03805) 30-Mar-23 (No. 217-03804) Mar-24 Power sensor NRP-Z91 Power sensor NRP-Z91 Mar-24 SN: 103245 30-Mar-23 (No. 217-03805) SN: BH9394 (20k) SN: 310982 / 06327 Reference 20 dB Attenuator 30-Mar-23 (No. 217-03809) Mar-24 30-Mar-23 (No. 217-03810) Reference Probe EX3DV4 SN: 7349 Jan-24 DAE4 SN: 601 19-Dec-22 (No. DAE4-601_Dec22) Secondary Standards Check Date (in house) Scheduled Check 30-Oct-14 (in house check Oct-22) 07-Oct-15 (in house check Oct-22) Power meter E4419B SN: GB39512475 In house check: Oct-24 Power sensor HP 8481A Power sensor HP 8481A SN: US37292783 In house check: Oct-24 In house check: Oct-24 07-Oct-15 (in house check Oct-22) 15-Jun-15 (in house check Oct-22) SN: MY41093315 RF generator R&S SMT-06 SN: 100972 In house check: Oct-24 Network Analyzer Agilent E8358A SN: US41080477 31-Mar-14 (in house check Oct-22) In house check: Oct-24 Function Calibrated by: Laboratory Technician Technical Manager Sven Kühn Issued: April 26, 2023 This calibration certificate shall not be reproduced except in full without written approval of the laboratory.

Certificate No: D2450V2-727_Apr23

Page 1 of 6

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SGS Taiwan Ltd.



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





S Service suisse d'étalonnage C Servizio svizzero di taratura 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:

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
- 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 | 77.00.00 \$7.000 |
| 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 | 37.7 ± 6 % | 1.86 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | in the same of the | T79- |

SAR result with Head TSL

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 250 mW input power | 13.6 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 53.1 W/kg ± 17.0 % (k=2) |

| SAR averaged over 10 cm3 (10 g) of Head TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 250 mW input power | 6.28 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 24.8 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 | 55.0 Ω + 2.1 jΩ - 25.8 dB | |
|--------------------------------------|------------------------------|--|
| Return Loss | | |

General Antenna Parameters and Design

| Electrical Delay (one direction) | 1.148 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: 25.04.2023

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: Dipole 2450 MHz; Type: D2450V2; Serial: D2450V2 - SN:727

Communication System: UID 0 - CW; Frequency: 2450 MHz

Medium parameters used: f = 2450 MHz; $\sigma = 1.86$ S/m; $\varepsilon_r = 37.7$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

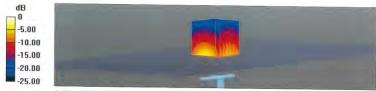
- Probe: EX3DV4 SN7349; ConvF(7.88, 7.88, 7.88) @ 2450 MHz; Calibrated: 10.01.2023
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 19.12.2022
- Phantom: Flat Phantom 5.0 (front); Type: QD 000 P50 AA; Serial: 1001
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

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 = 118.5 V/m; Power Drift = -0.07 dB Peak SAR (extrapolated) = 27.1 W/kg SAR(1 g) = 13.6 W/kg; SAR(10 g) = 6.28 W/kg

Smallest distance from peaks to all points 3 dB below = 9 mm Ratio of SAR at M2 to SAR at M1 = 50.2%

Maximum value of SAR (measured) = 22.5 W/kg



0 dB = 22.5 W/kg = 13.52 dBW/kg

Certificate No: D2450V2-727_Apr23

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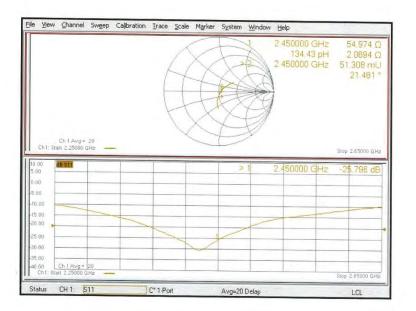
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Impedance Measurement Plot for Head TSL



Certificate No: D2450V2-727_Apr23

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Taoyuan City





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SGS

Certificate No. D6.5GHzV2-1006_Aug23

Accreditation No.: SCS 0108

CALIBRATION CERTIFICATE

Object D6.5GHzV2 - SN:1006

QA CAL-22.v7 Calibration procedure(s)

Calibration Procedure for SAR Validation Sources between 3-10 GHz

Calibration date: August 16, 2023

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 calibrations have 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 R&S NRP33T | SN: 100967 | 03-Apr-23 (No. 217-03806) | Apr-24 |
| Reference 20 dB Attenuator | SN: BH9394 (20k) | 30-Mar-23 (No. 217-03809) | Mar-24 |
| Mismatch combination | SN: 84224 / 360D | 03-Apr-23 (No. 217-03812) | Apr-24 |
| Reference Probe EX3DV4 | SN: 7405 | 12-Jun-23 (No. EX3-7405 Jun23) | Jun-24 |
| DAE4 | SN: 908 | 03-Jul-23 (No. DAE4-908_Jul23) | Jul-24 |

| Secondary Standards | ID# | Check Date (In house) | Scheduled Check |
|----------------------------------|---------------|-----------------------------------|------------------------|
| RF generator Anapico APSIN20G | SN: 827 | 18-Dec-18 (in house check Dec-21) | In house check: Dec-23 |
| Power sensor NRP-Z23 | SN: 100169 | 10-Jan-19 (in house check Nov-22) | In house check: Nov-23 |
| Power sensor NRP-18T | SN: 100950 | 28-Sep-22 (in house check Nov-22) | In house check: Nov-23 |
| Network Analyzer Keysight E5063A | SN:MY54504221 | 31-Oct-19 (in house check Oct-22) | In house check: Oct-25 |

Function Calibrated by: Jeton Kastrati Laboratory Technician Approved by: Sven Kühn Quality Manager

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Issued: August 18, 2023



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Calibration Laboratory of Schmid & Partner

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S Swiss Calibration Service

Accreditation No.: SCS 0108

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Glossary:

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.

Additional Documentation:

b) 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 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 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 absorbed power density (APD): The absorbed power density is evaluated according to Samaras T, Christ A, Kuster N, "Compliance assessment of the epithelial or absorbed power density above 6 GHz using SAR measurement systems", Bioelectromagnetics, 2021 (submitted). The additional evaluation uncertainty of 0.55 dB (rectangular distribution) is considered.

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%.

Certificate No: D6.5GHzV2-1006_Aug23

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5.46 W/kg

54.4 W/kg ± 24.4 % (k=2)

Measurement Conditions

as far as not given on page 1

| DASY Version | DASY6 | V16.2 |
|------------------------------|------------------------------|----------------------------------|
| Extrapolation | Advanced Extrapolation | |
| Phantom | Modular Flat Phantom | |
| Distance Dipole Center - TSL | 5 mm | with Spacer |
| Zoom Scan Resolution | dx, dy = 3.4 mm, dz = 1.4 mm | Graded Ratio = 1.4 (Z direction) |
| Frequency | 6500 MHz ± 1 MHz | |

Head TSL parameters

ters and calculations were applied

| | Temperature | Permittivity | Conductivity |
|---|-----------------|--------------|------------------|
| Nominal Head TSL parameters | 22.0 °C | 34.5 | 6.07 mho/m |
| Measured Head TSL parameters | (22.0 ± 0.2) °C | 33.9 ± 6 % | 6.03 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | | 1 |

SAR result with Head TSL

SAR for nominal Head TSL parameters

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|--|-------------------------------|-------------------------|
| SAR measured | 100 mW input power | 29.7 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 296 W/kg ± 24.7 % (k=2) |
| | | |
| | | |
| SAR averaged over 8 cm ³ (8 g) of Head TSL | Condition | |
| SAR averaged over 8 cm³ (8 g) of Head TSL SAR measured | Condition 100 mW input power | 6.66 W/kg |

100 mW input power

normalized to 1W

Certificate No: D6.5GHzV2-1006_Aug23

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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

| Impedance, transformed to feed point | 45.6 Ω - 7.5 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 20.8 dB |

APD (Absorbed Power Density)

| APD averaged over 1 cm ² | Condition | |
|--|------------------------------|--------------------------------------|
| APD measured | 100 mW input power | 295 W/m ² |
| APD measured | normalized to 1W | 2950 W/m ² ± 29.2 % (k=2) |
| | | |
| | | |
| APD averaged over 4 cm ² | condition | |
| APD averaged over 4 cm ² APD measured | condition 100 mW input power | 133 W/m² |

^{*}The reported APD values have been derived using the psSAR1g and psSAR8g.

General Antenna Parameters and Design

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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DASY6 Validation Report for Head TSL

Measurement Report for D6.5GHz-1006, UID 0 -, Channel 6500 (6500.0MHz)

| Device under 1 | Test Properties | | | | | | |
|----------------|------------------|--------------|-------------------|--------------|-------------------|------------|------------------|
| Name, Manufa | acturer Di | mensions | [mm] II | MEI | DUT Typ | e | |
| D6.5GHz | 10 | 0.0 x 10.0 x | k 10.0 S | N: 1006 | 2.7 | | |
| Exposure Cond | ditions | | | | | | |
| Phantom | Position, Test | Band | Group, | Frequency | Conversion | TSL Cond. | TSL |
| Section, TSL | Distance [mm] | | UID | [MHz] | Factor | [S/m] | Permittivity |
| Flat, HSL | 5.00 | Band | CW, | 6500 | 5.50 | 6.03 | 33.9 |
| Hardware Seti | qu | | | | | | |
| Phantom | | SL | | Probe. Cali | bration Date | DAE, Calib | oration Date |
| MFP V8.0 Cent | ter - 1182 H | BBL600-10 | 0000V6 | | N7405, 2023-06-12 | | 08, 2023-07-03 |
| Scan Setup | | | | Measureme | ent Results | | |
| | | | Zoom Sca | n | | | Zoom Scan |
| Grid Extents | [mm] | | 22.0 x 22.0 x 22. | 0 Date | | 2 | 023-08-16, 11:16 |
| Grid Steps [m | nm] | | 3.4 x 3.4 x 1. | 4 psSAR1g [| W/Kg] | | 29.7 |
| Sensor Surface | ce [mm] | | 1. | 4 psSAR8g [| W/Kg] | | 6.66 |
| Graded Grid | | | Ye | s psSAR10g | [W/Kg] | | 5.46 |
| Grading Ratio | 0 | | 1. | 4 Power Dri | ft [dB] | | -0.02 |
| MAIA | | | N/ | A Power Sca | aling | | Disabled |
| Surface Dete | ction | | VMS + 6 | p Scaling Fa | ctor [dB] | | |
| Scan Method | 1 | | Measure | d TSL Corre | ction | | No correction |
| | | | | M2/M1 [9 | [6] | | 51.2 |
| | | | | Dist 3dB P | Peak [mm] | | 4.8 |



Certificate No: D6.5GHzV2-1006_Aug23

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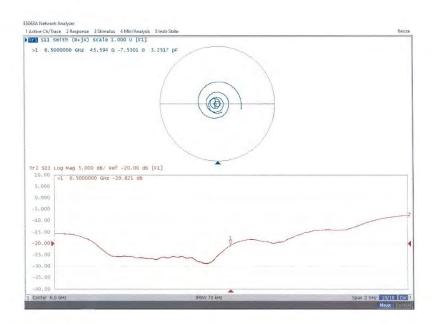
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Impedance Measurement Plot for Head TSL



Certificate No: D6.5GHzV2-1006 Aug23

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Calibration Laboratory of Schmid & Partner Engineering AG eughausstrasse 43, 8004 Zurich, Switz





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SGS Taoyuan City

Object

Accreditation No.: SCS 0108 Certificate No. 5G-Veri10-1021_Jan24

CALIBRATION CERTIFICATE

5G Verification Source 10 GHz - SN: 1021

Calibration procedure(s) QA CAL-45 V4

Calibration procedure for sources in air above 6 GHz

Calibration date: January 17, 2024

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 calibrations have been conducted in the closed laboratory facility: environment temperature $(22 \pm 3)^{\circ}$ C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID# | Cal Date (Certificate No.) | Scheduled Calibration |
|-------------------------|----------|---------------------------------|-----------------------|
| Reference Probe EUmmWV3 | SN: 9374 | 04-Dec-23 (No. EUmm-9374_Dec23) | Dec-24 |
| DAE4 | SN: 1215 | 29-Jun-23 (No. DAE4-1215_Jun23) | Jun-24 |
| Secondary Standards | ID# | Check Date (in house) | Scheduled Check |
| | | | |

| Secondary Standards | ID# | Check Date (in house) | Scheduled Check |
|----------------------------------|----------------|-----------------------------------|------------------------|
| RF generator R&S SMF100A | SN: 100184 | 29-Nov-23 (in house check Nov-23) | In house check: Nov-24 |
| Power sensor R&S NRP18S-10 | SN; 101258 | 29-Nov-23 (in house check Nov-23) | In house check: Nov-24 |
| Network Analyzer Keysight E5063A | SN: MY54504221 | 31-Oct-19 (in house check Oct-22) | In house check; Oct-25 |
| The second second second | | | |

Calibrated by:

Name Joanna Lieshai

Sven Kühn

Function

Approved by:

Technical Manager

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

Certificate No: 5G-Veri10-1021_Jan24

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Calibration Laboratory of Schmid & Partner

Engineering AG Zeughausstrasse 43, 8004 Zurich, Switzerland





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Glossary

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Continuous wave Calibration is Performed According to the Following Standards

- Internal procedure QA CAL-45, Calibration procedure for sources in air above 6 GHz.
- IEC/IEEE 63195-1, "Assessment of power density of human exposure to radio frequency fields from wireless devices in close proximity to the head and body (frequency range of 6 GHz to 300 GHz)", May 2022

Methods Applied and Interpretation of Parameters

- Coordinate System: z-axis in the waveguide horn boresight, x-axis is in the direction of the E-field, y-axis normal to the others in the field scanning plane parallel to the horn flare and
- Measurement Conditions: (1) 10 GHz: The radiated power is the forward power to the horn antenna minus ohmic and mismatch loss. The forward power is measured prior and after the measurement with a power sensor. During the measurements, the horn is directly connected to the cable and the antenna ohmic and mismatch losses are determined by farfield measurements. (2) 30, 45, 60 and 90 GHz. The verification sources are switched on for at least 30 minutes. Absorbers are used around the probe cub and at the ceiling to minimize
- Horn Positioning: The waveguide horn is mounted vertically on the flange of the waveguide source to allow vertical positioning of the EUmmW probe during the scan. The plane is parallel to the phantom surface. Probe distance is verified using mechanical gauges positioned on the flare of the horn.
- E- field distribution: E field is measured in two x-y-plane (10mm, 10mm + λ/4) with a vectorial E-field probe. The E-field value stated as calibration value represents the E-fieldmaxima and the averaged (1cm2 and 4cm2) power density values at 10mm in front of the
- Field polarization: Above the open horn, linear polarization of the field is expected. This is verified graphically in the field representation.

Calibrated Quantity

Local peak E-field (V/m) and average of peak spatial components of the poynting vector (W/m²) averaged over the surface area of 1 cm² and 4cm² at the nominal operational frequency of the verification source. Both square and circular averaging results are listed.

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%.

Certificate No: 5G-Veri10-1021_Jan24

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Measurement Conditions

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

| DASY Version | DASY8 Module mmWave | V3.2 |
|--------------------------------|----------------------|------|
| Phantom | 5G Phantom | |
| Distance Horn Aperture - plane | 10 mm | |
| Number of measured planes | 2 (10mm, 10mm + λ/4) | |
| Frequency | 10 GHz ± 10 MHz | |

Calibration Parameters, 10 GHz

| Distance Horn Aperture to Measured Plane | Prad¹ (mW) | Max E-field (V/m) | Uncertainty (k = 2) | Avg Power Density Avg (psPDn+, psPDtot+, psPDmed+) (W/m²) | | Uncertainty (k = 2) |
|--|---------------|----------------------|------------------------|---|-------------------|------------------------|
| | | | | 1 cm ² | 4 cm ² | |
| 10 mm | 93.3 | 154 | 1.27 dB | 60.6 | 56.2 | 1.28 dB |

| Distance Horn Aperture to Measured Plane | Prad¹ (mW) | Max E-field (V/m) | Uncertainty (k = 2) | Power Density psPDn+, psPDtot+, psPDmod+ (W/m²) | | Uncertainty (k = 2) |
|--|---------------|----------------------|------------------------|---|-------------------|------------------------|
| | | | | 1 cm ² | 4 cm ² | |
| 10 mm | 93.3 | 154 | 1.27 dB | 60.4, 60.6, 60.8 | 55.9, 56.2, 56.5 | 1.28 dB |

| Distance Horn Aperture to Measured Plane | Prad¹ (mW) | Max E-field (V/m) | Uncertainty (k = 2) | Avg Power Density Avg (psPDn+, psPDtot+, psPDmod+) (W/m²) | | Uncertainty (k = 2) |
|--|---------------|----------------------|------------------------|---|-------------------|------------------------|
| | | | | 1 cm ² | 4 cm ² | |
| 10 mm | 93.3 | 154 | 1.27 dB | 60.6 | 56.1 | 1.28 dB |

| Distance Horn Prad [†] Aperture to (mW) Measured Plane | Prad¹ (mW) | - India a mora oncontainty | | Power Density psPDn+, psPDtot+, psPDmod+ (W/m²) | | Uncertainty (k = 2) |
|---|---------------|----------------------------|---------|---|-------------------|------------------------|
| | | | | 1 cm ² | 4 cm ² | |
| 10 mm | 93.3 | 154 | 1.27 dB | 60.4, 60.6, 60.8 | 55.8, 56.1, 56.4 | 1.28 dB |

Max Power Density

| Distance Horn Aperture to Measured Plane | Prad¹ (mW) | Max E-field (V/m) | Uncertainty (k = 2) | Max Power Density Sn, Stot, Stot (W/m²) | Uncertainty (k = 2) |
|--|---------------|----------------------|------------------------|---|------------------------|
| 10 mm | 93.3 | 154 | 1.27 dB | 62.1, 62.2, 62.4 | 1.28 dB |

¹ Assessed ohmic and mismatch loss plus numerical offset: 0.30 dB

Certificate No: 5G-Ven10-1021_Jan24

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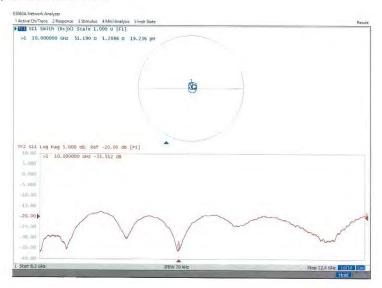
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Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters

| Impedance, transformed to feed point | $51.2 \Omega + 1.2 j\Omega$ | |
|--------------------------------------|-----------------------------|--|
| Return Loss | - 35.5 dB | |

Impedance Measurement Plot



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Conversion Factor 1.0

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DASY Report

Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

| Device under Test Pr | oportios | | | |
|--------------------------|---------------------------------|-----------------|----------|----------------------------------|
| Name, Manufacturer | Dimensions [mi | mI | IMEI | DUT Type |
| 5G Verification Source 1 | 0 GHz 100.0 x 100.0 x | 172.0 | SN: 1021 | |
| Exposure Conditions | | | | |
| Phantom Section | Position, Test Distance [mm] | Band | Group, | Frequency [MH: Channel Number |
| 5G - | 10.0 mm | Validation hand | CW | 10000.0 |

| Hardware Setup | | | |
|-----------------------|--------|----------------------------|-----------------------|
| Phantom | Medium | Probe, Calibration Date | DAE, Calibration Date |
| mmWave Phantom - 1002 | Air | EUmmWV3 - SN9374 F1-55GHz, | DAE4 Sn1215, |
| | | 2023-12-04 | 2023-06-29 |

| an Setup | | Measurement Results | |
|--------------------|---------------|---------------------------------|--------------------|
| | 5G Scan | | 5G Scan |
| ensor Surface [mm] | 10.0 | Date | 2024-01-17, 15:16 |
| IAIA | MAIA not used | Avg. Area [cm²] | 1.00 |
| | | Avg. Type | Circular Averaging |
| | | psPDn+ [W/m ²] | 60.4 |
| | | psPDtot+ [W/m ²] | 60.6 |
| | | psPDmod+ [W/m ²] | 60.8 |
| | | Max(Sn) [W/m ²] | 62.1 |
| | | Max(Stot) [W/m ²] | 62.2 |
| | | Max(Stot) [W/m ²] | 62.4 |
| | | E _{max} [V/m] | 154 |
| | | Power Drift [dB] | 0.00 |
| | | | |

10000



Certificate No: 5G-Veri10-1021_Jan24

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DASY Report

Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

Device under Test Properties

Name, Manufacturer Dimensions [mm]

5G Verification Source 10 GHz 100.0 x 172.0 DUT Type

Exposure Conditions

Position, Test Distance Band 10.0 mm Validation band CW 1.0

10000.0,

Hardware Setup

Probe, Calibration Date EUmmWV3 - SN9374_F1-55GHz, 2023-12-04 DAE, Calibration Date DAE4 Sn1215, 2023-06-29 Phantom mmWave Phantom - 1002 Medium

Scan Setup

Sensor Surface [mm] MAIA MAIA not used Measurement Results

| | 5G Scan |
|---------------------------------|--------------------|
| Date | 2024-01-17, 15:16 |
| Avg. Area [cm ²] | 4.00 |
| Avg. Type | Circular Averaging |
| psPDn+ [W/m ²] | 55.9 |
| psPDtat+ [W/m ²] | 56.2 |
| psPDmod+ [W/m²] | 56.5 |
| Max(Sn) [W/m ²] | 62.1 |
| Max(Stot) [W/m ²] | 62.2 |
| Max(Stot) [W/m ²] | 62.4 |
| E _{max} [V/m] | 154 |
| Power Drift [dB] | 0.00 |
| | |



Certificate No: 5G-Veri10-1021_Jan24

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DASY Report

Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

Device under Test Properties
 Name, Manufacturer
 Dimensions [mm]

 5G Verification Source 10 GHz
 100.0 x 100.0 x 172.0

Exposure Conditions Phantom Section

Position, Test Distance Band

Frequency [MHz], Channel Number

Conversion Factor

Validation band CW

10000.0, 10000

Hardware Setup

5G -

Phantom mmWave Phantom - 1002

Medium

Probe, Calibration Date EUmmWV3 - SN9374_F1-55GHz, 2023-12-04

DAE, Calibration Date DAE4 5n1215 2023-06-29

1.0

Scan Setup

Sensor Surface [mm] MAIA

Date

Avg. Area [cm²]

Avg. Type
psPDn+ [W/m²]
psPDtot+ [W/m²]
psPDmod+ [W/m²]
Max[Stot] [W/m²]

Max[Stot] [W/m²]

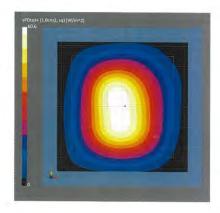
Max[Stot] [W/m²]

Power Drift [dB]

Measurement Results

5G Scan 2024-01-17, 15:16 1.00 60.6 60.8 62.1 62.4

0.00



Certificate No: 5G-Veri10-1021_Jan24

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DASY Report

Measurement Report for 5G Verification Source 10 GHz, UID 0 -, Channel 10000 (10000.0MHz)

| Device | under | Test | Properties |
|--------|-------|------|------------|

Dimensions [mm] 100.0 x 100.0 x 172.0 DUT Type

Exposure Conditions

Position, Test Distance Band [mm] 10.0 mm Validation band CW

10000.0,

10000

1.0

Hardware Setup

Phantom mmWave Phantom - 1002

Medium

Probe, Calibration Date EUmmWV3 - SN9374_F1-55GHz, 2023-12-04

Measurement Results

DAE, Calibration Date DAE4 Sn1215, 2023-06-29

Scan Setup

Sensor Surface [mm] MAIA

5G Scan MAIA not used

Avg. Area [cm²] Avg. Area [cm⁴] Avg. Type psPDn+ [W/m²] psPDtot+ [W/m²] psPDmod+ [W/m²] Max(Stee) [W/m²] Max(|Stot|) [W/m2]

E_{rox} [V/m] Power Drift [dB]

5G Scan 2024-01-17, 15:16 4.00



Certificate No: 5G-Veri10-1021_Jan24

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- End of report -

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