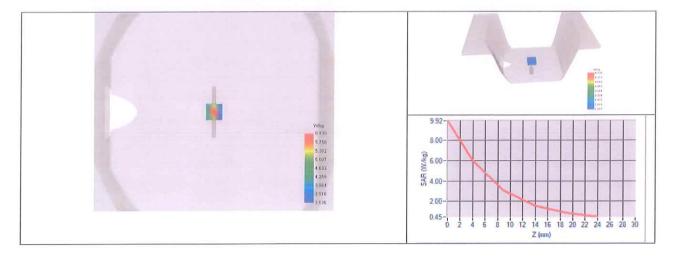




| Software | OPENSAR V5 |
|---|--|
| Phantom | SN 13/09 SAM68 |
| Probe | SN 41/18 EPGO333 |
| Liquid | Head Liquid Values: eps': 42.8 sigma: 1.87 |
| Distance between dipole center and liquid | 10.0 mm |
| Area scan resolution | dx=8mm/dy=8mm |
| Zoon Scan Resolution | dx=5mm/dy=5mm/dz=5mm |
| Frequency | 2450 MHz |
| Input power | 20 dBm |
| Liquid Temperature | 20 +/- 1 °C |
| Lab Temperature | 20 +/- 1 °C |
| Lab Humidity | 30-70 % |

| Frequency | | g SAR (W/kg) | | 10g SAR (W/kg) | | g) |
|-----------|----------|---------------------------------|-------------------------------|----------------|---------------------------------|-------------------------------|
| | Measured | Measured normalized to 1W | Target normalized to 1W | Measured | Measured normalized to 1W | Target normalized to 1W |
| 2450 MHz | 5.33 | 53.30 | 52.40 | 2.51 | 25.11 | 24.00 |





LIST OF EQUIPMENT

| Equipment Summary Sheet | | | | | |
|---------------------------------------|----------------------------|--------------------|---|---|--|
| Equipment Description | Manufacturer / Model | Identification No. | Current Calibration Date | Next Calibration Date | |
| SAM Phantom | MVG | SN 13/09 SAM68 | Validated. No cal required. | Validated. No cal required. | |
| COMOSAR Test Bench | Version 3 | NA | Validated. No cal required. | Validated. No cal required. | |
| Network Analyzer | Rohde & Schwarz ZVM | 100203 | 08/2021 | 08/2024 | |
| Network Analyzer – Calibration kit | Rohde & Schwarz ZV-Z235 | 101223 | 07/2022 | 07/2025 | |
| Calipers | Mitutoyo | SN 0009732 | 11/2022 | 11/2025 | |
| Reference Probe | MVG | 3523-EPGO-429 | 11/2023 | 11/2024 | |
| Multimeter | Keithley 2000 | 4013982 | 02/2023 | 02/2026 | |
| Signal Generator | Rohde & Schwarz SMB | 106589 | 03/2022 | 03/2025 | |
| Amplifier | MVG | MODU-023-C-0002 | Characterized prior to test. No cal required. | Characterized prior to test. No cal required. | |
| Power Meter | NI-USB 5680 | 170100013 | 06/2021 | 06/2024 | |
| Power Meter | Keysight U2000A | SN: MY62340002 | 10/2022 | 10/2025 | |
| Directional Coupler | Krytar 158020 | 131467 | Characterized prior to test. No cal required. | Characterized prior to test. No cal required. | |
| Temperature / Humidity Sensor | Testo 184 H1 | 44225320 | 06/2021 | 06/2024 | |



COMOSAR E-Field Probe Calibration Report

Ref: ACR.170.9.24.BES.A

WORLD STANDARDIZATION CERTIFICATION & TESTING GROUP CO .,LTD

BLOCK A, BAO SHI SCIENCE PARK,BAO SHI ROAD, BAO'AN DISTRICT, SHENZHEN 518108, P.R. CHINA MVG COMOSAR DOSIMETRIC E-FIELD PROBE

OSAR DOSIMETRIC E-FIELD I ROL

SERIAL NO.: 3523-EPGO-428

Calibrated at MVG

Z.I. de la pointe du diable Technopôle Brest Iroise – 295 avenue Alexis de Rochon 29280 PLOUZANE - FRANCE

Calibration date: 06/18/2024



Accreditations #2-6789 Scope available on www.cofrac.fr

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Summary:

This document presents the method and results from an accredited COMOSAR Dosimetric E-Field Probe calibration performed at MVG, using the CALIPROBE test bench, for use with a MVG COMOSAR system only. The test results covered by accreditation are traceable to the International System of Units (SI).



| | Name | Function | Date | Signature |
|------------------------|----------------------|-------------------------|-----------|-----------|
| Prepared by : | Jérôme Le Gall | Measurement Responsible | 6/18/2024 | |
| Checked & approved by: | Jérôme Luc | Technical Manager | 6/19/2024 | JS |
| Authorized by: | Géraldine TOUTAIN | Quality Manager | 6/20/2024 | |

| | Customer Name |
|---------------|----------------------------------|
| | World Standardization |
| Distribution: | Certification & Testing Group Co |
| | .,Ltd |

| Issue | Name | Date | Modifications |
|-------|----------------|-----------|-----------------|
| A | Jérôme Le Gall | 6/18/2024 | Initial release |
| | | | |
| | | | |
| | | | |





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1 DEVICE UNDER TEST

| Device Under Test | | | |
|--|----------------------------------|--|--|
| Device Type | COMOSAR DOSIMETRIC E FIELD PROBE | | |
| Manufacturer | MVG | | |
| Model | SSE2 | | |
| Serial Number | 3523-EPGO-428 | | |
| Product Condition (new / used) | Used | | |
| Frequency Range of Probe | 0.15 GHz-7.5GHz | | |
| Resistance of Three Dipoles at Connector | Dipole 1: R1=0.205 MΩ | | |
| | Dipole 2: R2=0.207 MΩ | | |
| | Dipole 3: R3=0.216 MΩ | | |

2 PRODUCT DESCRIPTION

2.1 GENERAL INFORMATION

MVG's COMOSAR E field Probes are built in accordance to the IEC/IEEE 62209-1528 and FCC KDB865664 D01 standards.



Figure 1 – *MVG COMOSAR Dosimetric E field Probe*

| Probe Length | 330 mm |
|--|--------|
| Length of Individual Dipoles | 2 mm |
| Maximum external diameter | 8 mm |
| Probe Tip External Diameter | 2.5 mm |
| Distance between dipoles / probe extremity | 1 mm |

3 MEASUREMENT METHOD

The IEC/IEEE 62209-1528 and FCC KDB865664 D01 standards provide recommended practices for the probe calibrations, including the performance characteristics of interest and methods by which to assess their effect. All calibrations / measurements performed meet the fore-mentioned standards.

3.1 SENSITIVITY

The sensitivity factors of the three dipoles were determined using a two step calibration method (air and tissue simulating liquid) using waveguides as outlined in the standards for frequency range 600-7500MHz and using the calorimeter cell method (transfer method) as outlined in the standards for frequency 150-450 MHz.



3.2 LINEARITY

The evaluation of the linearity was done in free space using the waveguide, performing a power sweep to cover the SAR range 0.01W/kg to 100W/kg.

3.3 ISOTROPY

The axial isotropy was evaluated by exposing the probe to a reference wave from a standard dipole with the dipole mounted under the flat phantom in the test configuration suggested for system validations and checks. The probe was rotated along its main axis from 0 to 360 degrees in 15-degree steps. The hemispherical isotropy is determined by inserting the probe in a thin plastic box filled with tissue-equivalent liquid, with the plastic box illuminated with the fields from a half wave dipole. The dipole is rotated about its axis $(0^{\circ}-180^{\circ})$ in 15° increments. At each step the probe is rotated about its axis $(0^{\circ}-360^{\circ})$.

3.4 BOUNDARY EFFECT

The boundary effect is defined as the deviation between the SAR measured data and the expected exponential decay in the liquid when the probe is oriented normal to the interface. To evaluate this effect, the liquid filled flat phantom is exposed to fields from either a reference dipole or waveguide. With the probe normal to the phantom surface, the peak spatial average SAR is measured and compared to the analytical value at the surface.

The boundary effect uncertainty can be estimated according to the following uncertainty approximation formula based on linear and exponential extrapolations between the surface and $d_{\rm be}$ + $d_{\rm sten}$ along lines that are approximately normal to the surface:

$$\mathrm{SAR}_{\mathrm{univertainty}} [\%] = \delta \mathrm{SAR}_{\mathrm{be}} \, \frac{\left(d_{\mathrm{be}} + d_{\mathrm{step}}\right)^2}{2d_{\mathrm{step}}} \frac{\left(e^{-d_{\mathrm{be}}/(\delta/2)}\right)}{\delta/2} \quad \text{for } \left(d_{\mathrm{be}} + d_{\mathrm{step}}\right) < 10 \; \mathrm{mm}$$

where

SAR_{uncertainty} is the uncertainty in percent of the probe boundary effect

 d_{be} is the distance between the surface and the closest zoom-scan measurement

point, in millimetre

 Δ_{step} is the separation distance between the first and second measurement points that

are closest to the phantom surface, in millimetre, assuming the boundary effect

at the second location is negligible

 δ is the minimum penetration depth in millimetres of the head tissue-equivalent

liquids defined in this standard, i.e., $\delta \approx 14$ mm at 3 GHz;

△SAR_{be} in percent of SAR is the deviation between the measured SAR value, at the

distance d_{be} from the boundary, and the analytical SAR value.

The measured worst case boundary effect SAR uncertainty [%] for scanning distances larger than 4mm is 1.0% Limit ,2%).



3.5 PROBE MODULATION RESPONSE

MVG's probe were evaluated experimentally with various modulated signal and the deviation from CW response were found neglectable in the used power range of the probe. So the correction to taking into account the linearization parameters for different modulation is null, therefore the CW factor given in this report can be used whatever the measured modulation.

4 MEASUREMENT UNCERTAINTY

The guidelines outlined in the IEC/IEEE 62209-1528 and FCC KDB865664 D01 standards were followed to generate the measurement uncertainty associated with a SAR probe calibration using the waveguide or calorimetric cell technique depending on the frequency.

The estimated expanded uncertainty (k=2) in calibration for SAR (W/kg) is +/-11% for the frequency range 150-450MHz.

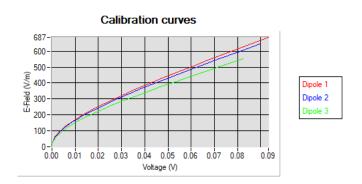
The estimated expanded uncertainty (k=2) in calibration for SAR (W/kg) is +/-14% for the frequency range 600-7500MHz.

5 CALIBRATION RESULTS

| Ambient condition | | |
|--------------------|-------------|--|
| Liquid Temperature | 20 +/- 1 °C | |
| Lab Temperature | 20 +/- 1 °C | |
| Lab Humidity | 30-70 % | |

5.1 CALIBRATION IN AIR

The following curve represents the measurement in waveguide of the voltage picked up by the probe toward the E-field generated inside the waveguide.



From this curve, the sensitivity in air is calculated using the below formula.



$$E^{2} = \sum_{i=1}^{3} \frac{V_{i} (1 + \frac{V_{i}}{DCP_{i}})}{Norm_{i}}$$

where

Vi=voltage readings on the 3 channels of the probe

DCPi=diode compression point given below for the 3 channels of the probe

Normi=dipole sensitivity given below for the 3 channels of the probe

| | Normy dipole | |
|---------------------|---------------------|---------------------|
| $1 (\mu V/(V/m)^2)$ | $2 (\mu V/(V/m)^2)$ | $3 (\mu V/(V/m)^2)$ |
| 0.37 | 0.39 | 0.47 |

| DCP dipole 1 | DCP dipole 2 | DCP dipole 3 |
|--------------|--------------|--------------|
| (mV) | (mV) | (mV) |
| 105 | 116 | 111 |

5.2 CALIBRATION IN LIQUID

The calorimeter cell or the waveguide is used to determine the calibration in liquid using the formula below.

$$ConvF = \frac{E_{liquid}^2}{E_{air}^2}$$

The E-field in the liquid is determined from the SAR measurement according to the below formula.

$$E_{liquid}^2 = \frac{\rho \, SAR}{\sigma}$$

where

 σ =the conductivity of the liquid

ρ=the volumetric density of the liquid

SAR=the SAR measured from the formula that depends on the setup used. The SAR formulas are given below

For the calorimeter cell (150-450 MHz), the formula is:

$$SAR = c \frac{dT}{dt}$$

where

c=the specific heat for the liquid

dT/dt=the temperature rises over the time





For the waveguide setup (600-75000 MHz), the formula is:

$$SAR = \frac{4PW}{ab\delta}e^{\frac{-2Z}{\delta}}$$

where

a=the larger cross-sectional of the waveguide

b=the smaller cross-sectional of the waveguide

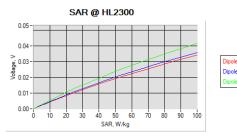
 δ =the skin depth for the liquid in the waveguide

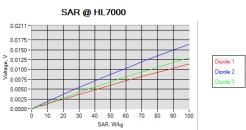
Pw=the power delivered to the liquid

The below table summarize the ConvF for the calibrated liquid. The curves give examples for the measured SAR depending on the voltage in some liquid.

| <u>Liquid</u> | Frequency (MHz*) | ConvF |
|---------------|---------------------|-------|
| 111 0000 | | 0.00 |
| HL2300 | 2300 | 3.20 |
| BL2300 | 2300 | 3.55 |
| HL3500 | 3500 | 2.63 |
| BL3500 | 3500 | 2.81 |
| HL3700 | 3700 | 2.60 |
| BL3700 | 3700 | 2.90 |
| HL7000 | 7000 | 2.25 |

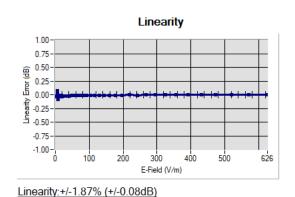
(*) Frequency validity is +/-50MHz below 600MHz, +/-100MHz from 600MHz to 6GHz and +/-700MHz above 6GHz

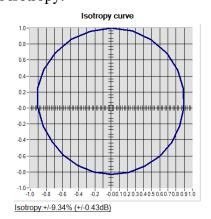




6 VERIFICATION RESULTS

The figures below represent the measured linearity and axial isotropy for this probe. The probe specification is ± -0.2 dB for linearity and ± -0.15 dB for axial isotropy.





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7 LIST OF EQUIPMENT

| Equipment Summary Sheet | | | | | | |
|--|----------------------------|--------------------|---|---|--|--|
| Equipment Manufacturer / Description Model | | Identification No. | Current Calibration Date | Next Calibration Date | | |
| CALIPROBE Test Bench | Version 2 | NA | Validated. No cal required. | Validated. No cal required. | | |
| Network Analyzer | Rohde & Schwarz ZVM | 100203 | 08/2021 | 08/2024 | | |
| Network Analyzer – Calibration kit | Rohde & Schwarz ZV-Z235 | 101223 | 07/2022 | 07/2025 | | |
| Multimeter | Keithley 2000 | 4013982 | 02/2023 | 02/2026 | | |
| Signal Generator | Rohde & Schwarz SMB | 106589 | 03/2022 | 03/2025 | | |
| Amplifier | MVG | MODU-023-C-0002 | Characterized prior to test. No cal required. | Characterized prior to test. No cal required. | | |
| Power Meter | NI-USB 5680 | 170100013 | 06/2021 | 06/2026 | | |
| USB Sensor | Keysight U2000A | SN: MY62340002 | 10/2022 | 10/2025 | | |
| Directional Coupler | Krytar 158020 | 131467 | Characterized prior to test. No cal required. | Characterized prior to test. No cal required. | | |
| Fluoroptic Thermometer | LumaSense Luxtron 812 | 94264 | 09/2022 | 09/2025 | | |
| Coaxial cell | MVG | | Validated. No cal required. | Validated. No cal required. | | |
| Waveguide | MVG | SN 32/16 WG2_1 | Validated. No cal required. | Validated. No cal required. | | |
| Liquid transition | MVG | | Validated. No cal required. | Validated. No cal required. | | |
| Waveguide | MVG | SN 32/16 WG4_1 | Validated. No cal required. | Validated. No cal required. | | |
| Liquid transition | MVG | | Validated. No cal required. | Validated. No cal required. | | |
| Waveguide | MVG | SN 32/16 WG6_1 | Validated. No cal required. | Validated. No cal required. | | |

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COMOSAR E-FIELD PROBE CALIBRATION REPORT

| | | SN 32/16 | Validated. No cal | Validated. No cal |
|----------------------------------|--------------|----------------------------|-----------------------------|-----------------------------|
| Liquid transition | MVG | WGLIQ_1G500_1 | required. | required. |
| Waveguide | MVG | SN 32/16 WG8_1 | Validated. No cal required. | Validated. No cal required. |
| Liquid transition | MVG | SN 32/16 WGLIQ_1G800B_1 | Validated. No cal required. | Validated. No cal required. |
| Liquid transition | MVG | SN 32/16 WGLIQ_1G800H_1 | Validated. No cal required. | Validated. No cal required. |
| Waveguide | MVG | SN 32/16 WG10_1 | Validated. No cal required. | Validated. No cal required. |
| Liquid transition | MVG | SN 32/16 WGLIQ_3G500_1 | Validated. No cal required. | Validated. No cal required. |
| Waveguide | MVG | SN 32/16 WG12_1 | Validated. No cal required. | Validated. No cal required. |
| Liquid transition | MVG | SN 32/16 WGLIQ_5G000_1 | Validated. No cal required. | Validated. No cal required. |
| Waveguide | MVG | SN 32/16 WG14_1 | Validated. No cal required. | Validated. No cal required. |
| Liquid transition | MVG | SN 32/16 WGLIQ_7G000_1 | Validated. No cal required. | Validated. No cal required. |
| Temperature / Humidity Sensor | Testo 184 H1 | 44235403 | 02/2024 | 02/2027 |

ANNEX D: System Check Results

Plot 1 System Performance Check at 6500 MHz TSL Measurement Report for Device, CW, Channel 0 (6500.0 MHz)

Device Under Test Properties

| Model, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|------------------------|----------------------|------|-----------------|
| Device, | 360.0 x 250.0 x 15.0 | 1 | Laptop Computer |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------------|---------------------------------------|------|---------------|--|----------------------|------------------------------|---------------------|
| Flat, HSL | 5.00 | | CW, 0 | 6500.0, 0 | 5.95 | 6.08 | 34.0 |

Hardware Setup

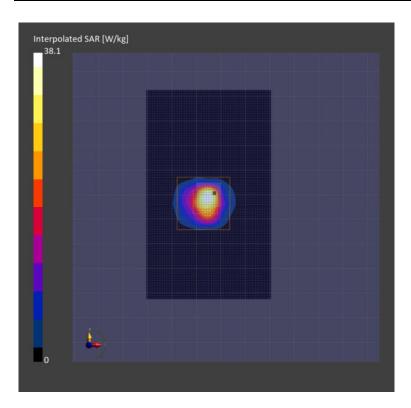
| • | | | |
|---|----------------|--------------------------------|----------------------------|
| Phantom | TSL, Measured | Probe, Calibration Date | DAE, Calibration Date |
| Twin-SAM V8.0 (30deg probe tilt) - 2072 | HBBL-600-10000 | EX3DV4 - SN7698, 2024-06-04 | DAE4 Sn1317, 2024-09-13 |

Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|-------------|--------------------|
| Grid Extents [mm] | 51.0 x 85.0 | 22.0 x 22.0 x 22.0 |
| Grid Steps [mm] | 8.5 x 8.5 | 3.4 x 3.4 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Graded Grid | n/a | Yes |
| Grading Ratio | n/a | 1.4 |
| MAIA | N/A | N/A |
| Surface Detection | VMS + 6p | All points |
| Scan Method | Measured | Measured |

Measurement Results

| mododi omont recodito | | |
|-----------------------|---------------|---------------|
| | Area Scan | Zoom Scan |
| Date | 2024-12-21 | 2024-12-21 |
| psSAR1g [W/Kg] | 23.6 | 30.4 |
| psSAR10g [W/Kg] | 5.14 | 5.79 |
| Power Drift [dB] | -0.02 | -0.09 |
| Power Scaling | Disabled | Disabled |
| Scaling Factor [dB] | | |
| TSL Correction | No correction | No correction |
| M2/M1 [%] | | 55.2 |
| Dist 3dB Peak [mm] | | 4.8 |
| | | |



Plot 2 Measurement Report for Device, UID 0 -, Channel 0 (6500.000MHz)

Device under Test Properties

| Model, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|---------------------|----------------------|------|-----------------|
| Device, | 360.0 x 250.0 x 15.0 | 1 | Laptop Computer |

Exposure Conditions

| Phantom | Position, | Band | Group, | Frequency | Conversion | TSL | TSL |
|--------------|--------------|------|--------|---------------------|------------|--------------|--------------|
| Section, TSL | Test | | UID | [MHz], | Factor | Conductivity | Permittivity |
| | Distance | | | Channel | | [S/m] | |
| | | | | | | | |
| | [mm] | | | Number | | | |
| Flat, | [mm] 5.00 | | CW, | Number 6500.000, | 5.85 | 6.08 | 34.0 |

Hardware Setup

| Phantom | TSL, Measured | Probe, Calibration Date | DAE, Calibration Date |
|----------------------|----------------|-------------------------|-----------------------|
| Twin-SAM V8.0 (30deg | HBBL-600-10000 | EX3DV4 - SN7698, | DAE4 Sn1317, |
| probe tilt) - 2072 | | 2024-06-04 | 2024-09-13 |

Scan Setup

Measurement Results

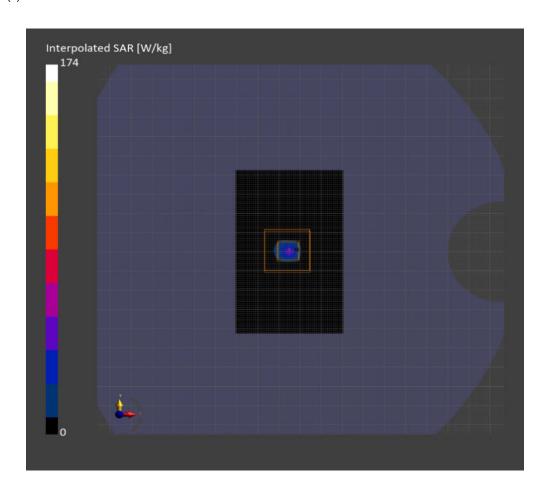
| | Area Scan | Zoom Scan | | Area Scan | Zoom Scan |
|-------------------|-------------|-----------------|---------------------|---------------|---------------|
| Crid Extente [mm] | 51.0 x 85.0 | 22.0 x 22.0 x | Date | 2024-12-21 | 2024-12-21 |
| Grid Extents [mm] | 31.0 X 65.0 | 22.0 X 22.0 X | Date | 2024-12-21 | 2024-12-21 |
| | | 22.0 | psSAR1g [W/kg] | 24.7 | 28.1 |
| Grid Steps [mm] | 8.5 x 8.5 | 3.4 x 3.4 x 1.4 | psSAR10g [W/kg] | 4.78 | 5.25 |
| Sensor Surface | 3.0 | 1.4 | psAPD (1.0cm2, sq) | | 281 |
| [mm] | | | [W/m2] | | |
| Graded Grid | N/A | Yes | psAPD (4.0cm2, sq) | | 128 |
| Grading Ratio | N/A | 1.4 | [W/m2] | | |
| MAIA | N/A | N/A | Power Drift [dB] | -0.02 | 0.01 |
| Surface Detection | VMS + 6p | VMS + 6p | Power Scaling | Disabled | Disabled |
| Scan Method | Measured | Measured | Scaling Factor [dB] | | |
| | | | TSL Correction | No correction | No correction |
| | | | M2/M1 [%] | | 52.6 |
| | | | Dist 3dB Peak [mm] | | 4.8 |

Warning(s) / Error(s)

Details Zoom Scan Area Scan

Warning(s)

Error(s)



Plot 3 Measurement Report for Device, BACK, Validation band, CW, Channel 10000 (10000.0 MHz)

Device Under Test Properties

| Model, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|------------------------|----------------------|------|-----------------|
| Device, | 360.0 x 250.0 x 15.0 | 1 | Laptop Computer |

Exposure Conditions

| Phantom | Position, Test | Band | Group, | Frequency [MHz], | Conversion |
|---------|----------------|-----------------|--------|------------------|------------|
| Section | Distance [mm] | | UID | Channel Number | Factor |
| 5G | BACK, 10.00 | Validation band | CW, 0 | 10000.0, 10000 | 1.0 |

Hardware Setup

| Phantom | Medium | Probe, Calibration Date | DAE, Calibration Date |
|----------|--------|--|----------------------------|
| mmWave - | Air - | EUmmWV4 - SN9642_F1-55GHz, 2024-07-10 | DAE4 Sn1317, 2024-09-13 |

Scans Setup

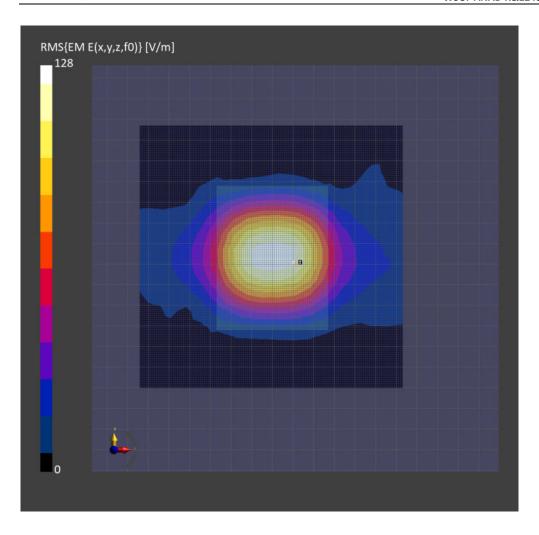
| Scan Type | 5G Scan |
|---------------------|---------------|
| Grid Extents [mm] | 120.0 x 120.0 |
| Grid Steps [lambda] | 0.25 x 0.25 |
| Sensor Surface [mm] | 10.0 |
| MAIA | Y |

Measurement Results

| Scan Type | 5G Scan |
|------------------------------|------------|
| Date | 2024-12-21 |
| Avg. Area [cm ²] | 1.00 |
| psPDn+ [W/m²] | 51.2 |
| psPDtot+ [W/m²] | 51.3 |
| psPDmod+ [W/m²] | 51.6 |
| E _{max} [V/m] | 126 |
| Power Drift [dB] | 0.03 |

World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.

TA-MB-06-003S



ANNEX E: Highest Graph Results

Plot 4 Measurement Report for Device, BACK, U-NII-8, IEEE 802.11ax (40MHz, MCS0, 90pc duty cycle), Channel 203 (6965.000 MHz)

Device Under Test Properties

| Model, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|---------------------|----------------------|------|----------|
| Device, | 300.0 x 240.0 x 15.0 | | Phone |

Exposure Conditions

| Phantom Section, TSL | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------------|---------------------------------------|---------|--------------------|--|----------------------|------------------------------|---------------------|
| Flat, HSL | BACK, 0.00 | U-NII-8 | WLAN, 10695-AAC | 6965.000, 203 | 5.51 | 6.69 | 33.2 |

Hardware Setup

| Phantom | TSL, Measured Date | Probe, Date | Calibration | DAE, Date | Calibration |
|------------------------------------|--------------------------------|---------------------|-------------|------------------|----------------|
| ELI V8.0 (20deg probe tilt) - xxxx | HBBL-600-10000 Charge:xxxx, | EX3DV4 - 2023-07-20 | , | DAE4 2023-01- | Sn1648, ·09 |

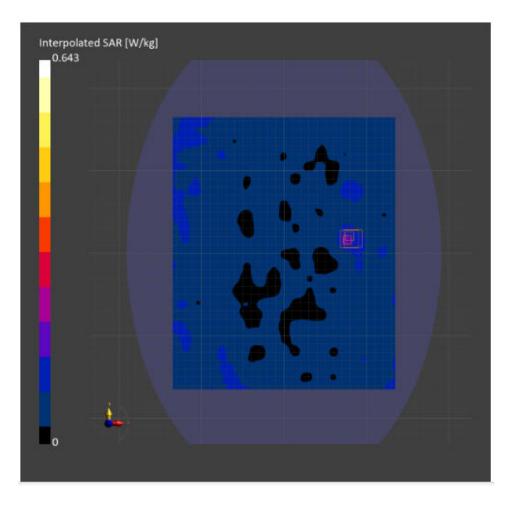
Scans Setup

| | Area Scan | Zoom Scan |
|---------------------|---------------|--------------------|
| Grid Extents [mm] | 270.0 x 330.0 | 24.0 x 24.0 x 24.0 |
| Grid Steps [mm] | 15.0 x 15.0 | 3.4 x 3.4 x 1.4 |
| Sensor Surface [mm] | 3.0 | 1.4 |
| Graded Grid | N/A | Yes |
| Grading Ratio | N/A | 1.4 |
| MAIA | Υ | Y |
| Surface Detection | VMS + 6p | VMS + 6p |
| Scan Method | Measured | Measured |

Measurement Results

| | Area Scan | Zoom Scan |
|------|------------|------------|
| Date | 2024-12-21 | 2024-12-21 |

| psSAR1g [W/Kg] | 0.156 | 0.089 |
|---------------------|---------------|---------------|
| psSAR10g [W/Kg] | 0.063 | 0.013 |
| Power Drift [dB] | 0.01 | 0.037 |
| Power Scaling | Disabled | Disabled |
| Scaling Factor [dB] | | |
| TSL Correction | No correction | No correction |
| M2/M1 [%] | | 51.7 |
| Dist 3dB Peak [mm] | | 6.8 |



Plot 5 Measurement Report for Device, BACK, U-NII-7, IEEE 802.11ax (40MHz, MCS0, 90pc duty cycle), Channel 147 (6685.0 MHz)

Device Under Test Properties

| Model, Manufacturer | Dimensions [mm] | IMEI | DUT Type |
|---------------------|----------------------|------|----------|
| Device, | 300.0 x 240.0 x 15.0 | | Phone |

Exposure Conditions

| Phantom Section | Position, Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor |
|--------------------|---------------------------------|---------|--------------------|------------------------------------|----------------------|
| 5G | BACK, 2.00 | U-NII-7 | WLAN, 10695-AAC | 6685.0, 147 | 1.0 |

Hardware Setup

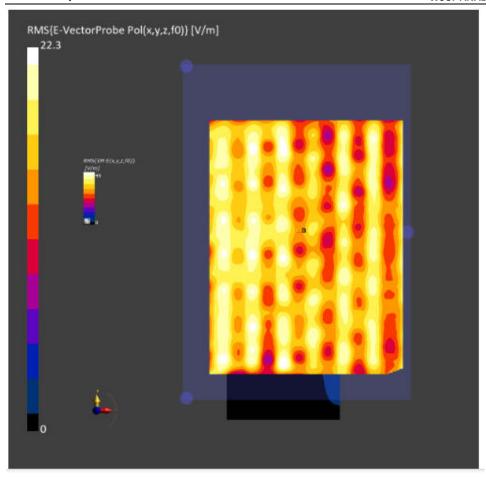
| Phantom | Medium | Probe, Calibration Dat | DAE, Calibration Date | | |
|----------|--------|-------------------------|-----------------------|--------------------|---------|
| mmWave - | Air - | EUmmWV4 - 2024-07-10 | SN9642_F1-55GHz, | DAE4 2024-04-12 | Sn1291, |

Scans Setup

| Scan Type | 5G Scan |
|---------------------|-------------|
| Grid Extents [mm] | 89.7 x 89.7 |
| Grid Steps [lambda] | 0.25 x 0.25 |
| Sensor Surface [mm] | 2.0 |
| MAIA | Υ |

Measurement Results

| Scan Type | 5G Scan |
|------------------------------|------------|
| Date | 2024-12-21 |
| Avg. Area [cm ²] | 4.00 |
| psPDn+ [W/m²] | 0.726 |
| psPDtot+ [W/m²] | 1.46 |
| psPDmod+ [W/m²] | 3.48 |
| E _{max} [V/m] | 49.0 |
| Power Drift [dB] | 0.191 |
| | |



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Client

WSCT Shenzhen

Certificate No.

EX-7391_Oct24

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:7391

Calibration procedure(s)

QA CAL-01.v10, QA CAL-12.v10, QA CAL-14.v7, QA CAL-23.v6,

QA CAL-25.v8

Calibration procedure for dosimetric E-field probes

Calibration date

October 16, 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 ± 3) ℃ and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID | Cal Date (Certificate No.) | Scheduled Calibration |
|----------------------------|------------------|-----------------------------------|-----------------------|
| Power meter NRP2 | SN: 104778 | 26-Mar-24 (No. 217-04036/04037) | Mar-25 |
| Power sensor NRP-Z91 | SN: 103244 | 26-Mar-24 (No. 217-04036) | Mar-25 |
| OCP DAK-3.5 (weighted) | SN: 1249 | 23-Sep-24 (OCP-DAK3.5-1249_Sep24) | Sep-25 |
| OCP DAK-12 | SN: 1016 | 24-Sep-24 (OCP-DAK12-1016_Sep24) | Sep-25 |
| Reference 20 dB Attenuator | SN: CC2552 (20x) | 26-Mar-24 (No. 217-04046) | Mar-25 |
| DAE4 | SN: 660 | 23-Feb-24 (No. DAE4-660_Feb24) | Feb-25 |
| Reference Probe EX3DV4 | SN: 7349 | 03-Jun-24 (No. EX3-7349_Jun24) | Jun-25 |

| Secondary Standards | ID | Check Date (in house) | Scheduled Check |
|-------------------------|------------------|-----------------------------------|------------------------|
| Power meter E4419B | SN: GB41293874 | 06-Apr-16 (in house check Jun-24) | In house check: Jun-26 |
| Power sensor E4412A | SN: MY41498087 | 06-Apr-16 (in house check Jun-24) | In house check: Jun-26 |
| Power sensor E4412A | SN: 000110210 | 06-Apr-16 (in house check Jun-24) | In house check: Jun-26 |
| RF generator HP 8648C | SN: US3642U01700 | 04-Aug-99 (in house check Jun-24) | In house check: Jun-26 |
| Network Analyzer E8358A | SN: US41080477 | 31-Mar-14 (in house check Sep-24) | In house check: Sep-26 |

Name **Function** Laboratory Technician Calibrated by Joanna Lleshaj Approved by Sven Kühn Technical Manager

Issued: October 16, 2024

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Glossary

TSL

tissue simulating liquid

NORMx,y,z

sensitivity in free space

ConvF

sensitivity in TSL / NORMx,y,z diode compression point

DCP CF

crest factor (1/duty_cycle) of the RF signal

A, B, C, D

modulation dependent linearization parameters

Polarization φ

 φ rotation around probe axis

Polarization ϑ

 ϑ rotation around an axis that is in the plane normal to probe axis (at measurement center), i.e., $\vartheta = 0$ is

normal to probe axis

Connector Angle

information used in DASY system to align probe sensor X to the robot coordinate system

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"

Methods Applied and Interpretation of Parameters:

- NORMx,y,z: Assessed for E-field polarization ∂ = 0 (f ≤ 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx,y,z are only intermediate values, i.e., the uncertainties of NORMx,y,z does not affect the E²-field uncertainty inside TSL (see below ConvF).
- NORM(f)x,y,z = NORMx,y,z * frequency_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCPx,y,z: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal. DCP does not depend on frequency nor media.
- PAR: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- Ax,y,z; Bx,y,z; Cx,y,z; Dx,y,z; VRx,y,z: A, B, C, D are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters: Assessed in flat phantom using E-field (or Temperature Transfer Standard for f ≤ 800 MHz) and inside waveguide using analytical field distributions based on power measurements for f > 800 MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORMx,y,z * ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from ±50 MHz to ±100 MHz.
- Spherical isotropy (3D deviation from isotropy): in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis).
 No tolerance required.
- · Connector Angle: The angle is assessed using the information gained by determining the NORMx (no uncertainty required).

Certificate No: EX-7391_Oct24

Page 2 of 10

October 16, 2024

Parameters of Probe: EX3DV4 - SN:7391

Basic Calibration Parameters

| | Sensor X | Sensor Y | Sensor Z | Unc (k = 2) |
|---------------------------------|----------|----------|----------|-------------|
| Norm (μV/(V/m) ²) A | 0.62 | 0.65 | 0.61 | ±10.1% |
| DCP (mV) B | 104.7 | 104.7 | 104.9 | ±4.7% |

Calibration Results for Modulation Response

| UID | Communication System Name | | A dB | $dB\sqrt{\mu V}$ | С | D dB | VR mV | Max dev. | Max Unc ^E k = 2 |
|-----|---------------------------|---|---------|------------------|------|---------|----------|-------------|----------------------------------|
| 0 | CW | Х | 0.00 | 0.00 | 1.00 | 0.00 | 118.0 | ±1.2% | ±4.7% |
| | | Υ | 0.00 | 0.00 | 1.00 | | 144.9 | | |
| | | Z | 0.00 | 0.00 | 1.00 | | 120.4 | | |

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%.

A The uncertainties of Norm X,Y,Z do not affect the E2-field uncertainty inside TSL (see Pages 5 and 6).

B Linearization parameter uncertainty for maximum specified field strength.

E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

EX3DV4 - SN:7391 October 16, 2024

Parameters of Probe: EX3DV4 - SN:7391

Other Probe Parameters

| Sensor Arrangement | Triangular |
|---|------------|
| Connector Angle | 4.5° |
| 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 | 1.4 mm |

Note: Measurement distance from surface can be increased to 3-4 mm for an Area Scan job.

EX3DV4 - SN:7391 October 16, 2024

Parameters of Probe: EX3DV4 - SN:7391

Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) ^C | Relative Permittivity ^F | Conductivity ^F (S/m) | ConvF X | ConvF Y | ConvF Z | Alpha ^G | Depth ^G (mm) | Unc ^H (k = 2) |
|----------------------|---------------------------------------|------------------------------------|---------|---------|---------|--------------------|----------------------------|-----------------------------|
| 4200 | 37.1 | 3.63 | 6.53 | 6.50 | 6.47 | 0.32 | 1.27 | ±13.1% |

 $^{^{}m C}$ 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. Validity of ConvF assessed at 6 MHz is 4–9 MHz, and ConvF assessed at 13 MHz is 9–19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ε and σ by less than $\pm 5\%$ from the target values (typically better than $\pm 3\%$)

F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ε and σ by less than ±5% from the target values (typically better than ±3%) and are valid for TSL with deviations of up to ±10% if SAR correction is applied.

G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less

G 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.

H The stated uncertainty is the total calibration uncertainty (k = 2) of Norm-ConvF. This is equivalent to the uncertainty component with the symbol CF in Table 9 of IEC/IEEE 62209-1528:2020.

October 16, 2024

Parameters of Probe: EX3DV4 - SN:7391

Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) ^C | Relative Permittivity ^F | Conductivity ^F (S/m) | ConvF X | ConvF Y | ConvF Z | Alpha ^G | Depth ^G (mm) | Unc ^H (<i>k</i> = 2) |
|----------------------|---------------------------------------|------------------------------------|---------|---------|---------|--------------------|----------------------------|-------------------------------------|
| 6500 | 34.5 | 6.07 | 5.57 | 5.54 | 5.52 | 0.20 | 1.27 | ±18.6% |

C Frequency validity at 6.5 GHz is -600/+700 MHz, and ±700 MHz at or above 7 GHz. The uncertainty is the RSS of the ConvF uncertainty at calibration

frequency and the uncertainty for the indicated frequency band.

F The probes are calibrated using tissue simulating liquids (TSL) that deviate for ε and σ by less than $\pm 10\%$ from the target values (typically better than $\pm 6\%$) and are valid for TSL with deviations of up to $\pm 10\%$.

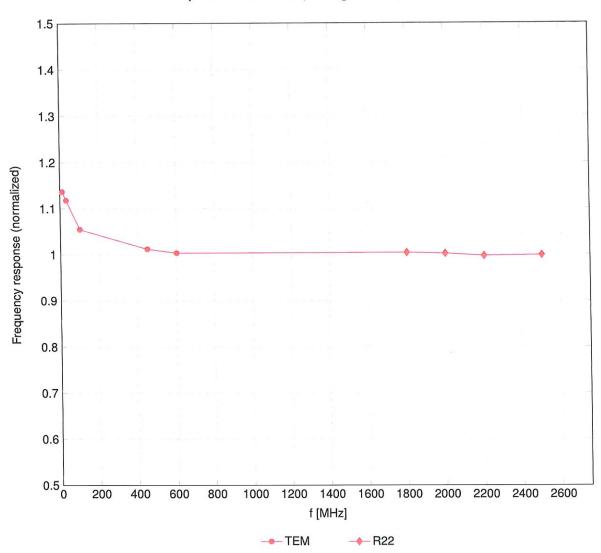
G Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less

than ±1% for frequencies below 3 GHz; below ±2% for frequencies between 3-6 GHz; and below ±4% for frequencies between 6-10 GHz at any distance larger than half the probe tip diameter from the boundary.

H The stated uncertainty is the total calibration uncertainty (k = 2) of Norm-ConvF. This is equivalent to the uncertainty component with the symbol CF in Table 9 of IEC/IEEE 62209-1528:2020.

Frequency Response of E-Field

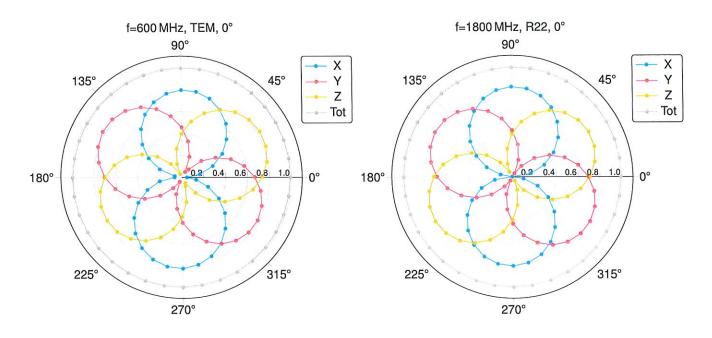
(TEM-Cell:ifi110 EXX, Waveguide:R22)

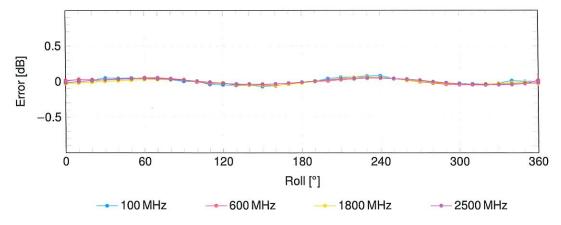


Uncertainty of Frequency Response of E-field: ±6.3% (k=2)

EX3DV4 - SN:7391 October 16, 2024

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



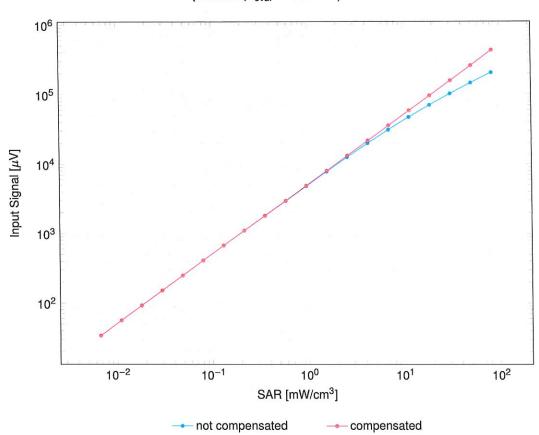


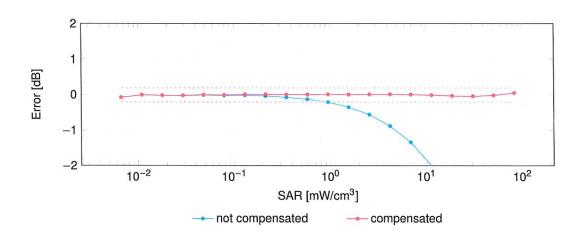
Uncertainty of Axial Isotropy Assessment: ±0.5% (k=2)

October 16, 2024

Dynamic Range f(SAR_{head})

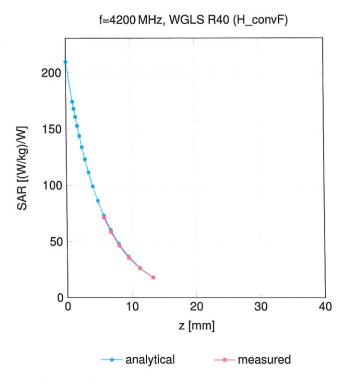
(TEM cell, $f_{eval} = 1900 \, \text{MHz}$)



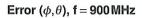


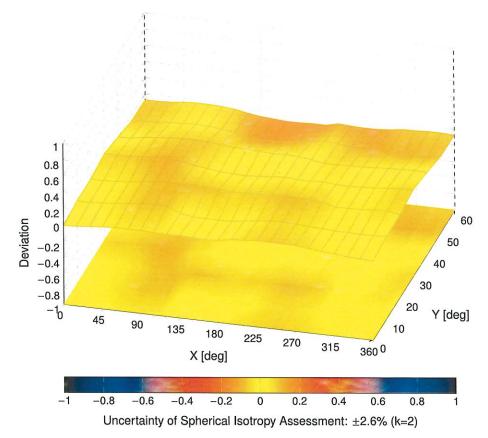
Uncertainty of Linearity Assessment: ±0.6% (k=2)

Conversion Factor Assessment



Deviation from Isotropy in Liquid





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Client

WSCT Shenzhen

Certificate No. D6.5GHzV2-1116 Oct24

CALIBRATION CERTIFICATE

Object

D6.5GHzV2 - SN:1116

Calibration procedure(s)

QA CAL-22.v7

Calibration Procedure for SAR Validation Sources between 3-10 GHz

Calibration date:

Primary Standards

October 14, 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 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

ID#

| Power sensor R&S NRP33T | SN: 100967 | 28-Mar-24 (No. 217-04038) | Mar-25 |
|----------------------------------|------------------|--|--|
| Reference 20 dB Attenuator | SN: BH9394 (20k) | 26-Mar-24 (No. 217-04046) | Mar-25 |
| Mismatch combination | SN: 84224 / 360D | 28-Mar-24 (No. 217-04050) | Mar-25 |
| Reference Probe EX3DV4 | SN: 7405 | 01-Jul-24 (No. EX3-7405_Jul24) | Jul-25 |
| DAE4 | SN: 908 | 27-Mar-24 (No. DAE4-908_Mar24) | Mar-25 |
| | | | |
| Secondary Standards | ID# | Check Date (in house) | Scheduled Check |
| | 10# | Check Date (iii house) | Scrieduled Crieck |
| RF generator Anapico APSIN20G | SN: 827 | 18-Dec-18 (in house check Jan-24) | In house check: Jan-25 |
| Power sensor NRP-Z23 | SN: 100169 | 10-Jan-19 (in house check Jan-24) | In house check: Jan-25 |
| Power sensor NRP-18T | | | Proceedings of the control of the co |
| Fower sensor NRF-101 | SN: 100950 | 28-Sep-22 (in house check Jan-24) | In house check: Jan-25 |
| Network Analyzer Keysight E5063A | | 28-Sep-22 (in house check Jan-24) 31-Oct-19 (in house check Sep-24) | In house check: Jan-25 In house check: Sep-26 |
| | | Construction of the Constr | |

Cal Date (Certificate No.)

Calibrated by:

Name Aidonia Georgiadou Function Laboratory Technician Signature

Approved by:

Sven Kühn

Technical Manager

Issued: October 14, 2024

Scheduled Calibration

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Certificate No: D6.5GHzV2-1116 Oct24

Page 1 of 6

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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.

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%.

Measurement Conditions

DASY system configuration, 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

The following parameters 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 | 34.6 ± 6 % | 6.21 mho/m ± 6 % |
| Head TSL temperature change during test | < 0.5 °C | | |

SAR result with Head TSL

| SAR averaged over 1 cm³ (1 g) of Head TSL | Condition | |
|---|--------------------|-------------------------|
| SAR measured | 100 mW input power | 29.8 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 298 W/kg ± 24.7 % (k=2) |

| SAR averaged over 8 cm ³ (8 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 6.69 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 67.0 W/kg ± 24.4 % (k=2) |

| SAR averaged over 10 cm ³ (10 g) of Head TSL | condition | |
|---|--------------------|--------------------------|
| SAR measured | 100 mW input power | 5.49 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 54.9 W/kg ± 24.4 % (k=2) |

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL

| Impedance, transformed to feed point | 49.2 Ω - 4.3 jΩ |
|--------------------------------------|-----------------|
| Return Loss | - 27.2 dB |

APD (Absorbed Power Density)

| APD averaged over 1 cm ² | Condition | |
|-------------------------------------|--------------------|--------------------------|
| APD measured | 100 mW input power | 298 W/m² |
| APD measured | normalized to 1W | 2980 W/m² ± 29.2 % (k=2) |

| APD averaged over 4 cm ² | condition | |
|-------------------------------------|--------------------|--------------------------|
| APD measured | 100 mW input power | 134 W/m² |
| APD measured | normalized to 1W | 1340 W/m² ± 28.9 % (k=2) |

^{*}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 |
| | |

DASY6 Validation Report for Head TSL

Measurement Report for D6.5GHz-1116, UID 0 -, Channel 6500 (6500.0MHz)

| Device under 1 | rest I | Prop | oer | ties |
|----------------|--------|------|-----|------|
|----------------|--------|------|-----|------|

| Name, Manufa | acturer Di | mensions | [mm] | IMEI | DUT Ty | pe | |
|---|-------------------------|-------------|---------------|--|----------------------|--------------------|---------------------|
| D6.5GHz | 16 | 5.0 x 6.0 x | 300.0 | SN: 1116 | - | | |
| Exposure Cond | | | | | | | |
| Phantom Section, TSL | Position, Test Distance | Band | Group, UID | Frequency [MHz] | Conversion Factor | TSL Cond. [S/m] | TSL Permittivity |
| , | [mm] | | | - Constitution of the Cons | | •• | |
| Flat, HSL | 5.00 | Band | CW, | 6500 | 5.14 | 6.21 | 34.6 |

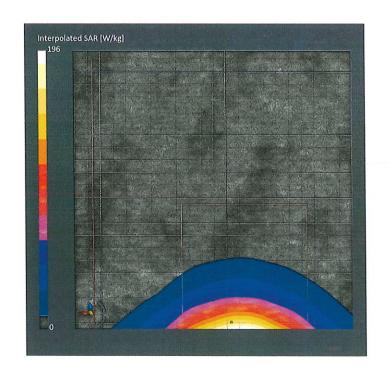
Hardware Setup

| Phantom TSL | | Probe, Calibration Date | DAE, Calibration Date | |
|------------------------|-----------------|--------------------------------|------------------------|--|
| MFP V8.0 Center - 1182 | HBBL600-10000V6 | EX3DV4 - SN7405, 2024-07-01 | DAE4 Sn908, 2024-03-27 | |

Measurement Results

Scan Setup

| ocan octup | Wicdow Ciricula Media to | | |
|----------------------|-----------------------------|---------------------|-------------------|
| | Zoom Scan | | Zoom Scan |
| Grid Extents [mm] | 22.0 x 22.0 x 22.0 | Date | 2024-10-14, 16:49 |
| Grid Steps [mm] | $3.4 \times 3.4 \times 1.4$ | psSAR1g [W/Kg] | 29.8 |
| Sensor Surface [mm] | 1.4 | psSAR8g [W/Kg] | 6.69 |
| Graded Grid | Yes | psSAR10g [W/Kg] | 5.49 |
| Grading Ratio | 1.4 | Power Drift [dB] | 0.00 |
| MAIA | N/A | Power Scaling | Disabled |
| Surface Detection | VMS + 6p | Scaling Factor [dB] | |
| Scan Method | Measured | TSL Correction | No correction |
| | | M2/M1 [%] | 49.5 |
| | | Dist 3dB Peak [mm] | 4.6 |
| | | | |



Impedance Measurement Plot for Head TSL

