Calibration Laboratory of

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





S Schweizerischer Kalibrierdienst Service suisse d'étalonnage

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S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA Multilateral Agreement for the recognition of calibration certificates

Client

Sporton Shenzhen Certificate No.

D835V2-4d162_Dec24

CALIBRATION CERTIFICATE

Object

D835V2 - SN: 4d162

Calibration procedure(s)

QA CAL-05.v12

Calibration Procedure for SAR Validation Sources between 0.7 - 3 GHz

Calibration date

December 13, 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)

| Primary Standards | ID | Cal Date (Certificate No.) | Scheduled Cal |
|--|------------|---------------------------------------|---------------|
| Power Sensor R&S NRP-33T | SN: 100967 | 28-Mar-24 (No. 217-04038) | Mar-25 |
| Power Sensor R&S NRP18A | SN: 101859 | 22-Jul-24 (No. 4030A315008547) | Jul-25 |
| Spectrum Analyzer R&S FSV40 | SN: 101832 | 25-Jan-24 (No. 4030-315007551) | Jan-25 |
| Mismatch; Short [S4188] Attenuator [S4423] | SN: 1152 | 28-Mar-24 (No. 217-04050) | Mar-25 |
| OCP DAK-12 | SN: 1016 | 24-Sep-24 (No. OCP-DAK12-1016_Sep24) | Sep-25 |
| OCP DAK-3.5 | SN: 1249 | 23-Sep-24 (No. OCP-DAK3.5-1249_Sep24) | Sep-25 |
| Reference Probe EX3DV4 | SN: 7349 | 03-Jun-24 (No. EX3-7349_Jun24) | Jun-25 |
| DAE4ip | SN: 1836 | 28-Oct-24 (No. DAE4ip-1836_Oct24) | Oct-25 |

| Secondary Standards | ID | Check Date (in house) | Scheduled Check |
|------------------------------|------------|--|-----------------|
| ACAD Source Box | SN: 1000 | 28-May-24 (No. 675-ACAD_Source_Box-240528) | May-25 |
| Signal Generator R&S SMB100A | SN: 182081 | 28-May-24 (No. 675-CAL16-S4588-240528) | May-25 |
| Mismatch; SMA | SN: 1102 | 22-May-24 (No. 675-Mismatch_SMA-240522) | May-25 |

Name

Function

Signature

Calibrated by

Krešimir Franjić

Laboratory Technician

Approved by

Sven Kühn

Technical Manager

Issued: December 13, 2024

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Certificate No: D835V2-4d162_Dec24

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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

- 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.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation

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 impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- · Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- · SAR measured: SAR measured at the stated antenna input power.
- · SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- · SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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

Certificate No: D835V2-4d162_Dec24

Page 2 of 6

Measurement Conditions

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

| DASY Version | DASY8 Module SAR | 16.4.0 |
|------------------------------|-------------------------------|-------------------------------------|
| Extrapolation | Advanced Extrapolation | |
| Phantom | Modular Flat Phantom | |
| Distance Dipole Center - TSL | 15 mm | with spacer |
| Zoom Scan Resolution | dx, $dy = 6mm$, $dz = 1.5mm$ | Graded Ratio = 1.5 mm (Z direction) |
| Frequency | 835MHz ±1MHz | |

Head TSL parameters at 835 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---------------|--------------|-----------------|
| Nominal Head TSL parameters | 22.0 °C | 41.5 | 0.900 mho/m |
| Measured Head TSL parameters | (22.0 ±0.2)°C | 41.5 ±6% | 0.900 mho/m ±6% |
| Head TSL temperature change during test | < 0.5 °C | | |

SAR result with Head TSL at 835 MHz

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR for nominal Head TSL parameters | 24 dBm input power | 2.28 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 9.08 W/kg ±17.0% (k = 2) |

| SAR averaged over 10 cm ³ (10 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR for nominal Head TSL parameters | 24 dBm input power | 1.47 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 5.85 W/kg ±16.5% (k = 2) |

Certificate No: D835V2-4d162_Dec24

D835V2 - SN: 4d162

December 13, 2024

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 835 MHz

| Impedance | 50.2 Ω – 8.5 jΩ |
|-------------|-----------------|
| Return Loss | -21.4 dB |

General Antenna Parameters and Design

| Electrical Delay (one direction) | 1.44 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 |
|-----------------|-------|

Certificate No: D835V2-4d162_Dec24 Page 4 of 6

D835V2 - SN: 4d162 December 13, 2024

System Performance Check Report

Summary

| Dipole | Frequency [MHz] | TSL | Power [d8m] |
|------------------|-----------------|-----|-------------|
| D835V2 - SN4d162 | 835 | HSL | 24 |

Exposure Conditions

| Phantom Section, TSL | Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|--------------------|------|------------|---------------------------------|-------------------|------------------------|------------------|
| Flat | 15 | | CW, 0 | 835, 0 | 9.61 | 0.90 | 41.5 |

Hardware Setup

| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date | |
|---------------|--------------------|-----------------------------|---------------------------|--|
| Flat V4.9 mod | HSL, 2024-12-13 | EX3DV4 - SN7349, 2024-06-03 | DAE4ip Sn1836, 2024-10-28 | |

Scans Setup

| | Zoom Scan |
|---------------------|-----------------|
| Grid Extents [mm] | 30 x 30 x 30 |
| Grid Steps (mm) | 6.0 × 6.0 × 1.5 |
| Sensor Surface [mm] | 1.4 |
| Graded Grid | Yes |
| Grading Ratio | 1.5 |
| MAIA | N/A |
| Surface Detection | VMS + 6p |
| Scan Method | Measured |

Measurement Results

| | Zoom Scan |
|---------------------|---------------------|
| | Zoom Scar |
| Date | 2024-12-13 |
| psSAR1g [W/Kg] | 2.28 |
| psSAR10g [W/Kg] | 1.47 |
| Power Drift [dB] | -0.01 |
| Power Scaling | Disabled |
| Scaling Factor [dB] | |
| TSL Correction | Positive / Negative |

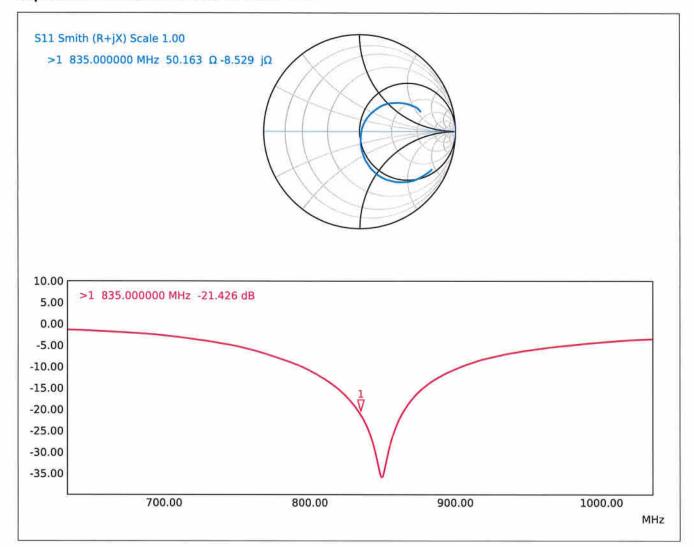


0 dB = 3.60 W/Kg

D835V2 - SN: 4d162

December 13, 2024

Impedance Measurement Plot for Head TSL



Certificate No: D835V2-4d162_Dec24

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Client

Sporton Shenzhen

Certificate No.

D1750V2-1137_Oct24

CALIBRATION CERTIFICATE

Object

D1750V2 - SN: 1137

Calibration procedure(s)

QA CAL-05.v12

Calibration Procedure for SAR Validation Sources between 0.7 - 3 GHz

Calibration date

October 15, 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)

| Primary Standards | ID | Cal Date (Certificate No.) | Scheduled Cal |
|--|------------|---------------------------------------|---------------|
| Power Sensor R&S NRP-33T | SN: 100967 | 28-Mar-24 (No. 217-04038) | Mar-25 |
| Power Sensor R&S NRP18A | SN: 101859 | 22-Jul-24 (No. 4030A315008547) | Jul-25 |
| Spectrum Analyzer R&S FSV40 | SN: 101832 | 25-Jan-24 (No. 4030-315007551) | Jan-25 |
| Mismatch; Short [S4188] Attenuator [S4423] | SN: 1152 | 28-Mar-24 (No. 217-04050) | Mar-25 |
| OCP DAK-12 | SN: 1016 | 24-Sep-24 (No. OCP-DAK12-1016_Sep24) | Sep-25 |
| OCP DAK-3.5 | SN: 1249 | 23-Sep-24 (No. OCP-DAK3.5-1249_Sep24) | Sep-25 |
| Reference Probe EX3DV4 | SN: 7349 | 03-Jun-24 (No. EX3-7349_Jun24) | Jun-25 |
| DAE4ip | SN: 1836 | 10-Jan-24 (No. DAE4ip-1836_Jan24) | Jan-25 |

| Secondary Standards | ID | Check Date (in house) | Scheduled Check |
|------------------------------|------------|--|-----------------|
| ACAD Source Box | SN: 1000 | 28-May-24 (No. 675-ACAD_Source_Box-240528) | May-25 |
| Signal Generator R&S SMB100A | SN: 182081 | 28-May-24 (No. 675-CAL16-S4588-240528) | May-25 |
| Mismatch: SMA | SN: 1102 | 22-May-24 (No. 675-Mismatch SMA-240522) | May-25 |

Signature Name Function Laboratory Technician Calibrated by Paulo Pina Approved by Sven Kühn Technical Manager

Issued: October 15, 2024

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Accreditation No.: SCS 0108

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Glossary

tissue simulating liquid TSL

sensitivity in TSL / NORM x,y,z ConvF

not applicable or not measured N/A

Calibration is Performed According to the Following Standards

- 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.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation

· 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 impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- · Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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

Measurement Conditions

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

| DASY Version | DASY8 Module SAR | 16.4.0 |
|------------------------------|-------------------------------|-------------------------------------|
| Extrapolation | Advanced Extrapolation | |
| Phantom | Modular Flat Phantom | |
| Distance Dipole Center - TSL | 10 mm | with spacer |
| Zoom Scan Resolution | dx, $dy = 6mm$, $dz = 1.5mm$ | Graded Ratio = 1.5 mm (Z direction) |
| Frequency | 1750MHz ±1MHz | |

Head TSL parameters at 1750 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---------------|--------------|----------------|
| Nominal Head TSL parameters | 22.0 °C | 40.1 | 1.37 mho/m |
| Measured Head TSL parameters | (22.0 ±0.2)°C | 40.6 ±6% | 1.33 mho/m ±6% |
| Head TSL temperature change during test | < 0.5 °C | | |

SAR result with Head TSL at 1750 MHz

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR for nominal Head TSL parameters | 24 dBm input power | 9.24 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 36.8 W/kg ±17.0% (k = 2) |

| SAR averaged over 10 cm ³ (10 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR for nominal Head TSL parameters | 24 dBm input power | 4.93 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 19.6 W/kg ±16.5% (k = 2) |

Certificate No: D1750V2-1137_Oct24

D1750V2 - SN: 1137

October 15, 2024

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 1750 MHz

| Impedance | 49.2 Ω – 1.6 jΩ |
|-------------|-----------------|
| Return Loss | -34.9 dB |

General Antenna Parameters and Design

| Electrical Delay (one direction) | 1.222 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 |
|-----------------|-------|
|-----------------|-------|

Certificate No: D1750V2-1137_Oct24 Page 4 of 6

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D1750V2 - SN: 1137

October 15, 2024

System Performance Check Report

| Su | m | m | 21 | nı |
|----|---|---|----|----|
| | | | | |

| Dipole | Frequency [MHz] | TSL | Power [dBm] | |
|---------------------|-----------------|-----|-------------|--|
| D1750V2 - SN1137 | 1750 | HSL | 24 | |
| Exposure Conditions | | | | |

| Phantom Section, TSL | Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|--------------------|------|------------|---------------------------------|-------------------|------------------------|------------------|
| Flat | 10 | | CW, 0 | 1750, 0 | 7.96 | 1.33 | 40.6 |

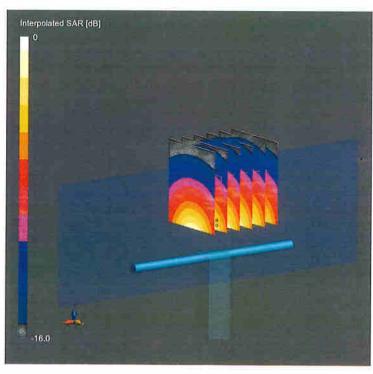
Hardware Setup

| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date | |
|----------------|--------------------|-----------------------------|---------------------------|--|
| MFP V8.0 Right | HSL, 2024-10-15 | EX3DV4 - SN7349, 2024-06-03 | DAE4ip Sn1836, 2024-01-10 | |

| | Zoom Scan |
|---------------------|-----------------|
| Grid Extents [mm] | 30 x 30 x 30 |
| Grid Steps [mm] | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 1.4 |
| Graded Grid | Yes |
| Grading Ratio | 1,5 |
| MAIA | N/A |
| Surface Detection | VMS + 6p |
| Scan Method | Measured |

Measurement Results

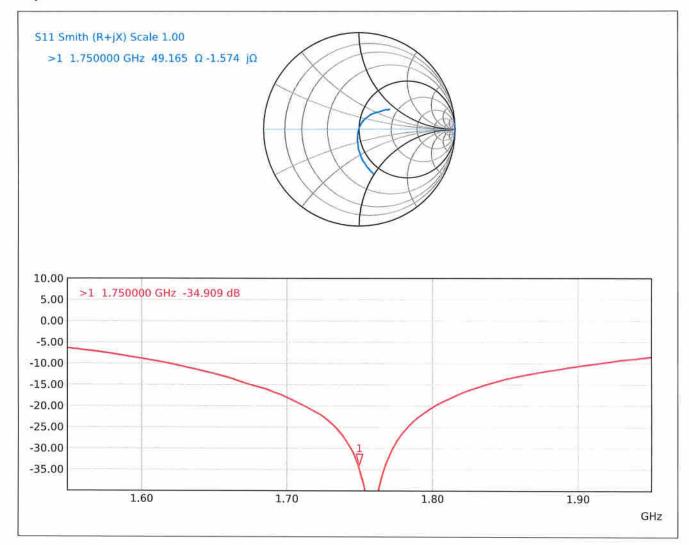
| | Zoom Scan |
|---------------------|---------------------|
| Date | 2024-10-15 |
| psSAR1g [W/Kg] | 9.24 |
| psSAR10g [W/Kg] | 4.93 |
| Power Drift [d8] | 0.01 |
| Power Scaling | Disabled |
| Scaling Factor [dB] | |
| TSL Correction | Positive / Negative |



0 dB = 16.0 W/Kg

D1750V2 - SN: 1137 October 15, 2024

Impedance Measurement Plot for Head TSL



Certificate No: D1750V2-1137_Oct24

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Client

Sporton Shenzhen Certificate No.

D1900V2-5d182_Dec24

CALIBRATION CERTIFICATE

Object

D1900V2 - SN: 5d182

Calibration procedure(s)

QA CAL-05.v12

Calibration Procedure for SAR Validation Sources between 0.7 - 3 GHz

Calibration date

December 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)°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID | Cal Date (Certificate No.) | Scheduled Cal |
|--|------------|---------------------------------------|---------------|
| Power Sensor R&S NRP-33T | SN: 100967 | 28-Mar-24 (No. 217-04038) | Mar-25 |
| Power Sensor R&S NRP18A | SN: 101859 | 22-Jul-24 (No. 4030A315008547) | Jul-25 |
| Spectrum Analyzer R&S FSV40 | SN: 101832 | 25-Jan-24 (No. 4030-315007551) | Jan-25 |
| Mismatch; Short [S4188] Attenuator [S4423] | SN: 1152 | 28-Mar-24 (No. 217-04050) | Mar-25 |
| OCP DAK-12 | SN: 1016 | 24-Sep-24 (No. OCP-DAK12-1016_Sep24) | Sep-25 |
| OCP DAK-3.5 | SN: 1249 | 23-Sep-24 (No. OCP-DAK3.5-1249_Sep24) | Sep-25 |
| Reference Probe EX3DV4 | SN: 7349 | 03-Jun-24 (No. EX3-7349_Jun24) | Jun-25 |
| DAE4ip | SN: 1836 | 28-Oct-24 (No. DAE4ip-1836_Oct24) | Oct-25 |

| Secondary Standards | ID | Check Date (in house) | Scheduled Check |
|------------------------------|------------|--|-----------------|
| ACAD Source Box | SN: 1000 | 28-May-24 (No. 675-ACAD_Source_Box-240528) | May-25 |
| Signal Generator R&S SMB100A | SN: 182081 | 28-May-24 (No. 675-CAL16-S4588-240528) | May-25 |
| Mismatch; SMA | SN: 1102 | 22-May-24 (No. 675-Mismatch_SMA-240522) | May-25 |

Name Function Signature

Calibrated by Claudio Leubler Laboratory Technician

Approved by Sven Kühn Technical Manager

Issued: December 18, 2024

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Certificate No: D1900V2-5d182_Dec24

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Accreditation No.: SCS 0108

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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

- 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.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation

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 impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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

Page 2 of 6

D1900V2 - SN: 5d182

December 16, 2024

Measurement Conditions

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

| DASY Version | DASY8 Module SAR | 16.4.0 |
|------------------------------|-------------------------------|-------------------------------------|
| Extrapolation | Advanced Extrapolation | |
| Phantom | Modular Flat Phantom | |
| Distance Dipole Center - TSL | 10 mm | with spacer |
| Zoom Scan Resolution | dx, $dy = 6mm$, $dz = 1.5mm$ | Graded Ratio = 1.5 mm (Z direction) |
| Frequency | 1900MHz ±1MHz | |

Head TSL parameters at 1900 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---------------|--------------|----------------|
| Nominal Head TSL parameters | 22.0 °C | 40.0 | 1.40 mho/m |
| Measured Head TSL parameters | (22.0 ±0.2)°C | 39.6 ±6% | 1.41 mho/m ±6% |
| Head TSL temperature change during test | < 0.5 °C | | |

SAR result with Head TSL at 1900 MHz

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR for nominal Head TSL parameters | 24 dBm input power | 10.0 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 39.8 W/kg ±17.0% (k = 2) |

| SAR averaged over 10 cm ³ (10 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR for nominal Head TSL parameters | 24 dBm input power | 5.27 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 21.0 W/kg ±16.5% (k = 2) |

Certificate No: D1900V2-5d182_Dec24

D1900V2 - SN: 5d182

December 16, 2024

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 1900 MHz

| Impedance | 52.1 Ω+3.9 jΩ |
|-------------|---------------|
| Return Loss | -27.2 dB |

General Antenna Parameters and Design

| Electrical Delay (one direction) | 1.202 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 |
|-----------------|-------|

Certificate No: D1900V2-5d182_Dec24

Page 4 of 6

D1900V2 - SN: 5d182

December 16, 2024

System Performance Check Report

| S | u | n | 11 | n | a | n | • |
|---|---|---|----|---|---|---|---|
| | | | | | | | |

| Dipole | Frequency [MHz] | TSL | Power [dBm] |
|-------------------|-----------------|-----|-------------|
| D1900V2 - SN5d182 | 1900 | HSL | 24 |

Exposure Conditions

| Phantom Section, TSL | Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|--------------------|------|------------|---------------------------------|-------------------|------------------------|------------------|
| Flat | 10 | | CW, 0 | 1900, 0 | 7.73 | 1.41 | 39.6 |

Hardware Setup

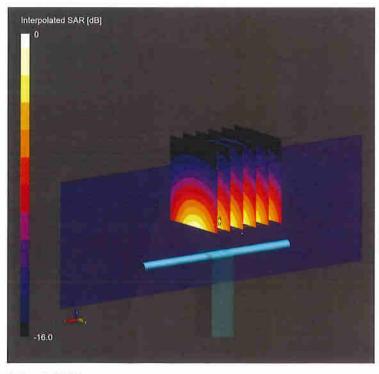
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date | |
|----------------|--------------------|-----------------------------|---------------------------|--|
| MFP V8.0 Right | HSL, 2024-12-16 | EX3DV4 - 5N7349, 2024-06-03 | DAE4ip Sn1836, 2024-10-28 | |

Scans Setup

| | Zoom Scan |
|---------------------|-----------------|
| Grid Extents [mm] | 30 x 30 x 30 |
| Grid Steps [mm] | 6.0 x 6.0 x 1.5 |
| Sensor Surface [mm] | 1:4 |
| Graded Grid | Yes |
| Grading Ratio | 1.5 |
| MAIA | N/A |
| Surface Detection | VMS + 6p |
| Scan Method | Measured |

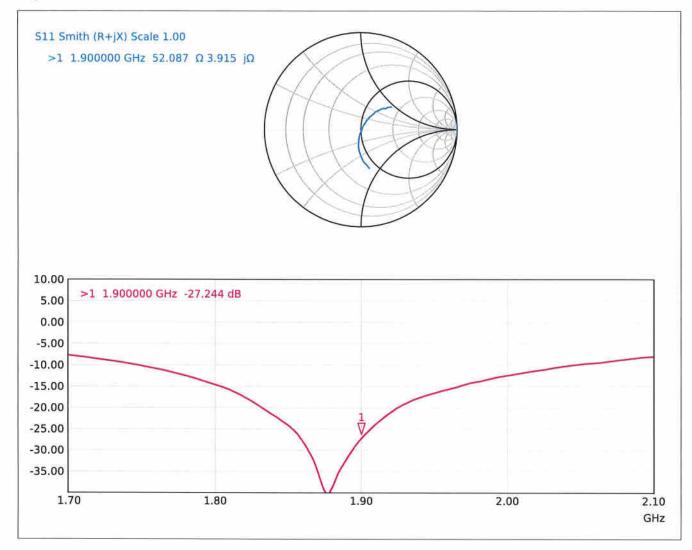
Measurement Results

| Zoom Scan |
|---------------------|
| 2024-12-16 |
| 10.0 |
| 5.27 |
| 0.02 |
| Disabled |
| |
| Positive / Negative |
| |



0 dB = 18.3 W/Kg

Impedance Measurement Plot for Head TSL



Certificate No: D1900V2-5d182_Dec24

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

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

Client

Sporton Shenzhen

Certificate No.

D2600V2-1070_Dec24

CALIBRATION CERTIFICATE

Object

D2600V2 - SN: 1070

Calibration procedure(s)

QA CAL-05.v12

Calibration Procedure for SAR Validation Sources between 0.7 - 3 GHz

Calibration date

December 13, 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)

| Primary Standards | ID | Cal Date (Certificate No.) | Scheduled Cal |
|--|------------|---------------------------------------|---------------|
| Power Sensor R&S NRP-33T | SN: 100967 | 28-Mar-24 (No. 217-04038) | Mar-25 |
| Power Sensor R&S NRP18A | SN: 101859 | 22-Jul-24 (No. 4030A315008547) | Jul-25 |
| Spectrum Analyzer R&S FSV40 | SN: 101832 | 25-Jan-24 (No. 4030-315007551) | Jan-25 |
| Mismatch; Short [S4188] Attenuator [S4423] | SN: 1152 | 28-Mar-24 (No. 217-04050) | Mar-25 |
| OCP DAK-12 | SN: 1016 | 24-Sep-24 (No. OCP-DAK12-1016_Sep24) | Sep-25 |
| OCP DAK-3.5 | SN: 1249 | 23-Sep-24 (No. OCP-DAK3.5-1249_Sep24) | Sep-25 |
| Reference Probe EX3DV4 | SN: 7349 | 03-Jun-24 (No. EX3-7349_Jun24) | Jun-25 |
| DAE4ip | SN: 1836 | 28-Oct-24 (No. DAE4ip-1836_Oct24) | Oct-25 |

| Secondary Standards | ID | Check Date (in house) | Scheduled Check |
|------------------------------|------------|--|-----------------|
| ACAD Source Box | SN: 1000 | 28-May-24 (No. 675-ACAD_Source_Box-240528) | May-25 |
| Signal Generator R&S SMB100A | SN: 182081 | 28-May-24 (No. 675-CAL16-S4588-240528) | May-25 |
| Mismatch; SMA | SN: 1102 | 22-May-24 (No. 675-Mismatch_SMA-240522) | May-25 |

Name

Function

Signature

Calibrated by

Krešimir Franjić

Laboratory Technician

Approved by

Sven Kühn

Technical Manager

Issued: December 13, 2024

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Certificate No: D2600V2-1070 Dec24

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Calibration Laboratory of

Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





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C Service suisse d'étalonnage
Servizio svizzero di taratura

S Swiss Calibration Service

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

The Swiss Accreditation Service is one of the signatories to the EA

Multilateral Agreement for the recognition of calibration certificates

Glossary

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

- 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.
- KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation

· 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 impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- · Electrical Delay: One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- SAR measured: SAR measured at the stated antenna input power.
- SAR normalized: SAR as measured, normalized to an input power of 1 W at the antenna connector.
- SAR for nominal TSL parameters: The measured TSL parameters are used to calculate the nominal SAR result.

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

Certificate No: D2600V2-1070_Dec24

Page 2 of 6

D2600V2 - SN: 1070 December 13, 2024

Measurement Conditions

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

| DASY Version | Y Version DASY8 Module SAR | |
|------------------------------|-------------------------------|-------------------------------------|
| Extrapolation | Advanced Extrapolation | |
| Phantom | Modular Flat Phantom | |
| Distance Dipole Center - TSL | 10 mm | with spacer |
| Zoom Scan Resolution | dx, $dy = 5mm$, $dz = 1.5mm$ | Graded Ratio = 1.5 mm (Z direction) |
| Frequency | 2600MHz ±1MHz | |

Head TSL parameters at 2600 MHz

The following parameters and calculations were applied.

| | Temperature | Permittivity | Conductivity |
|---|---------------|--------------|----------------|
| Nominal Head TSL parameters | 22.0 °C | 39.0 | 1.96 mho/m |
| Measured Head TSL parameters | (22.0 ±0.2)°C | 37.2 ±6% | 2.03 mho/m ±6% |
| Head TSL temperature change during test | < 0.5 °C | | |

SAR result with Head TSL at 2600 MHz

| SAR averaged over 1 cm ³ (1 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR for nominal Head TSL parameters | 24 dBm input power | 14.2 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 56.5 W/kg ±17.0% (k = 2) |

| SAR averaged over 10 cm ³ (10 g) of Head TSL | Condition | |
|---|--------------------|--------------------------|
| SAR for nominal Head TSL parameters | 24 dBm input power | 6.32 W/kg |
| SAR for nominal Head TSL parameters | normalized to 1W | 25.2 W/kg ±16.5% (k = 2) |

Certificate No: D2600V2-1070_Dec24 Page 3 of 6

D2600V2 - SN: 1070

December 13, 2024

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with Head TSL at 2600 MHz

| Impedance | 48.3 Ω – 6.1 jΩ | |
|-------------|-----------------|--|
| Return Loss | -23.9 dB | |

General Antenna Parameters and Design

| Electrical Delay (one direction) | 1.146 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 |
|-----------------|-------|

Certificate No: D2600V2-1070_Dec24 Page 4 of 6

D2600V2 - SN: 1070

December 13, 2024

System Performance Check Report

| C., | - | - | - | |
|-----|---|---|---|----|
| Su | m | ш | d | гу |

| Dipole | Frequency [MHz] | TSL | Power [d8m] |
|------------------|-----------------|-----|-------------|
| D2600V2 - SN1070 | 2600 | HSL | 24 |

Exposure Conditions

| Phantom Section, TSL | Test Distance [mm] | Band | Group, UID | Frequency [MHz], Channel Number | Conversion Factor | TSL Conductivity [S/m] | TSL Permittivity |
|----------------------|--------------------|------|------------|---------------------------------|-------------------|------------------------|------------------|
| Flat | 10 | | CW, 0 | 2600, 0 | 7.29 | 2.03 | 37.2 |

Hardware Setup

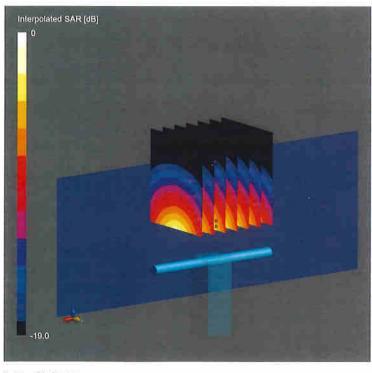
| Phantom | TSL, Measured Date | Probe, Calibration Date | DAE, Calibration Date | |
|-----------------|--------------------|-----------------------------|---------------------------|--|
| MFP V8.0 Center | HSL, 2024-12-13 | EX3DV4 - SN7349, 2024-06-03 | DAE4ip Sn1836, 2024-10-28 | |

Scans Setup

| | Zoom Scan |
|---------------------|-----------------|
| Grid Extents [mm] | 30 x 30 x 30 |
| Grid Steps [mm] | 5.0 x 5.0 x 1.5 |
| Sensor Surface [mm] | 1.4 |
| Graded Grid | Yes |
| Grading Ratio | 1.5 |
| MAIA | N/A |
| Surface Detection | VMS + 6p |
| Scan Method | Measured |

Measurement Results

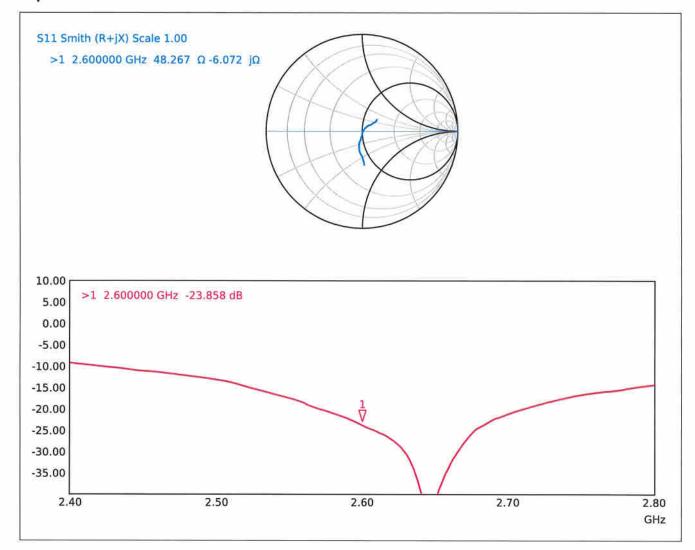
| | Zoom Scan |
|---------------------|---------------------|
| Date | 2024-12-13 |
| psSAR1g [W/Kg] | 14.2 |
| psSAR10g [W/Kg] | 6.32 |
| Power Drift [dB] | -0.01 |
| Power Scaling | Disabled |
| Scaling Factor [dB] | |
| TSL Correction | Positive / Negative |



0 dB = 31.6 W/Kg

D2600V2 - SN: 1070 December 13, 2024

Impedance Measurement Plot for Head TSL



Certificate No: D2600V2-1070_Dec24 Page 6 of 6

Appendix B
Report No.: FA521816B
中国认可
国际互认
校准
CALIBRATION

Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China

Tel: +86-10-62304633-2117

E-mail: emf@caict.ac.cn

http://www.caict.ac.cn

Client:

sporton

Certificate No: 24J02Z000532

CNAS L0570

CALIBRATION CERTIFICATE

Object

DAE4 - SN: 1386

Calibration Procedure(s)

FF-Z11-002-01

Calibration Procedure for the Data Acquisition Electronics

(DAEx)

Calibration date:

August 30, 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(Calibrated by, Certificate No.) | Scheduled Calibration |
|------------------------|---------|--|-----------------------|
| Process Calibrator 753 | 1971018 | 11-Jun-24 (CTTL, No.24J02X005147) | Jun-25 |
| | | | |

Name

Function

Signature

Calibrated by:

Yu Zongying

SAR Test Engineer

Reviewed by:

Lin Jun

SAR Test Engineer

Approved by:

Qi Dianyuan

SAR Project Leader

Issued: September 02, 2024

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Certificate No: 24J02Z000532

Page 1 of 3





Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China

Tel: +86-10-62304633-2117

E-mail: emf@caict.ac.cn

http://www.caict.ac.cn

Glossary:

DAE da

data acquisition electronics

Connector angle

information used in DASY system to align probe sensor X

to the robot coordinate system.

Methods Applied and Interpretation of Parameters:

- DC Voltage Measurement: Calibration Factor assessed for use in DASY system by comparison with a calibrated instrument traceable to national standards. The figure given corresponds to the full scale range of the voltmeter in the respective range.
- Connector angle: The angle of the connector is assessed measuring the angle mechanically by a tool inserted. Uncertainty is not required.
- The report provide only calibration results for DAE, it does not contain other performance test results.

Certificate No: 24J02Z000532



Add: No.52 HuaYuanBei Road, Haidian District, Beijing, 100191, China

Tel: +86-10-62304633-2117

E-mail: emf@caict.ac.cn http://www.caict.ac.cn

DC Voltage Measurement

A/D - Converter Resolution nominal

High Range: $1LSB = 6.1\mu V$, full range = -100...+300 mVLow Range: 1LSB = 61nV, full range = -1......+3mVDASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

 Calibration Factors
 X
 Y
 Z

 High Range
 404.568 ± 0.15% (k=2)
 404.652 ± 0.15% (k=2)
 404.172 ± 0.15% (k=2)

 Low Range
 4.02064 ± 0.7% (k=2)
 4.01389 ± 0.7% (k=2)
 4.0123 ± 0.7% (k=2)

Connector Angle

| Connector Angle to be used in DASY system | 150.5° ± 1 ° |
|---|--------------|
| | |

Certificate No: 24J02Z000532 Page 3 of 3

Calibration Laboratory of Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland





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Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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Client

Sporton Shenzhen City Certificate No.

EX-3819 Aug24

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:3819

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

August 22, 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 | 05-Oct-23 (OCP-DAK3.5-1249_Oct23) | Oct-24 |
| OCP DAK-12 | SN: 1016 | 05-Oct-23 (OCP-DAK12-1016_Oct23) | Oct-24 |
| 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 Oct-22) | In house check: Oct-24 |

Name

Function

Signature

Calibrated by

Joanna Lleshaj

Laboratory Technician

Approved by

Sven Kühn

Technical Manager

Issued: August 23, 2024

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Certificate No: EX-3819_Aug24

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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

NORMx,y,z sensitivity in free space

ConvF sensitivity in TSL / NORMx,y,z

DCP diode compression point

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 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 θ = 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-3819_Aug24 Page 2 of 22

Parameters of Probe: EX3DV4 - SN:3819

Basic Calibration Parameters

| | Sensor X | Sensor Y | Sensor Z | Unc (k = 2) |
|--------------------------|----------|----------|----------|-------------|
| Norm $(\mu V/(V/m)^2)$ A | 0.44 | 0.44 | 0.46 | ±10.1% |
| DCP (mV) B | 105.1 | 102.4 | 105.5 | ±4.7% |

Calibration Results for Modulation Response

| UID | Communication System Name | | A dB | $^{ m B}$ dB $\sqrt{\mu V}$ | С | D dB | VR mV | Max dev. | Max Unc ^E <i>k</i> = 2 |
|-------|--|---|---------|-----------------------------|-------|---------|----------|-------------|---|
| 0 | CW | X | 0.00 | 0.00 | 1.00 | 0.00 | 147.9 | ±1.0% | ±4.7% |
| | | Y | 0.00 | 0.00 | 1.00 | | 135.4 | | |
| | | Z | 0.00 | 0.00 | 1.00 | | 118.4 | | |
| 10352 | Pulse Waveform (200Hz, 10%) | X | 12.28 | 84.53 | 19.02 | 10.00 | 60.0 | ±2.8% | ±9.6% |
| | A STANDARD CONTRACTOR AND STANDARD CONTRACTOR OF STANDARD CONTRACTOR | Y | 20.00 | 94.71 | 23.35 | | 60.0 | | |
| | | Z | 20.00 | 91.76 | 21.67 | | 60.0 | | |
| 10353 | Pulse Waveform (200Hz, 20%) | X | 20.00 | 90.43 | 19.49 | 6.99 | 80.0 | ±1.5% | ±9.6% |
| | 1 (1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 | Y | 20.00 | 95.24 | 22.66 | | 80.0 | | |
| | | Z | 20.00 | 92.28 | 20.72 | | 80.0 | | |
| 10354 | Pulse Waveform (200Hz, 40%) | X | 20.00 | 91.98 | 18.82 | 3.98 | 95.0 | ±1.2% | ±9.6% |
| | ************************************** | Y | 20.00 | 99.32 | 23.41 | | 95.0 | | |
| | | Z | 20.00 | 93.87 | 20.07 | | 95.0 | | |
| 10355 | Pulse Waveform (200Hz, 60%) | X | 20.00 | 95.42 | 19.27 | 2.22 | 120.0 | ±1.2% | ±9.6% |
| | The contract of the contract o | Y | 20.00 | 106.46 | 25.54 | | 120.0 | | |
| | | Z | 20.00 | 97.95 | 20.80 | | 120.0 | | |
| 10387 | QPSK Waveform, 1 MHz | X | 1.65 | 65.40 | 14.56 | 1.00 | 150.0 | ±1.7% | ±9.6% |
| | South an electric Control of the con | Y | 1.85 | 66.48 | 15.61 | | 150.0 | | |
| | | Z | 1.74 | 65.90 | 14.96 | | 150.0 | | |
| 10388 | QPSK Waveform, 10 MHz | X | 2.16 | 67.29 | 15.23 | 0.00 | 150.0 | ±1.0% | ±9.6% |
| | Debat A. Hellich - Month of Carlot and Carlo | Y | 2.47 | 69.13 | 16.34 | 1 | 150.0 | | |
| | | Z | 2.29 | 68.09 | 15.64 | | 150.0 | | |
| 10396 | 64-QAM Waveform, 100 kHz | X | 3.02 | 70.76 | 18.65 | 3.01 | 150.0 | ±0.6% | ±9.6% |
| | Processor Company and Company Company and | Y | 3.37 | 72.18 | 19.65 | 1 | 150.0 | | |
| | | Z | 3.69 | 74.02 | 20.05 | | 150.0 | | |
| 10399 | 64-QAM Waveform, 40 MHz | X | 3.50 | 67.03 | 15.57 | 0.00 | 150.0 | ±0.8% | ±9.6% |
| | North Designation of the State | Y | 3.54 | 67.08 | 15.81 | | 150.0 | | |
| | | Z | 3.42 | 66.66 | 15.44 | | 150.0 | | |
| 10414 | WLAN CCDF, 64-QAM, 40 MHz | X | 4.71 | 65.08 | 15.10 | 0.00 | 150.0 | ±1.7% | ±9.6% |
| | Consideration and Section 2018 from the Sect | Y | 4.91 | 65.45 | 15.44 | | 150.0 | | |
| | | Z | 4.81 | 65.36 | 15.26 | | 150.0 | | |

Note: For details on UID parameters see Appendix

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.

Parameters of Probe: EX3DV4 - SN:3819

Sensor Model Parameters

| | C1 fF | C2 fF | α V ⁻¹ | T1 ms V ⁻² | T2 msV ⁻¹ | T3 ms | T4 V ⁻² | T5 V ⁻¹ | Т6 |
|---|----------|----------|----------------------|--------------------------|-------------------------|----------|-----------------------|-----------------------|------|
| х | 47.2 | 341.18 | 33.50 | 13.26 | 0.63 | 5.01 | 1.42 | 0.20 | 1.01 |
| v | 55.9 | 410.21 | 34.54 | 23.24 | 0.26 | 5.10 | 1.09 | 0.33 | 1.01 |
| z | 50.3 | 362.98 | 33.49 | 15.86 | 0.61 | 5.03 | 2.00 | 0.16 | 1.01 |

Other Probe Parameters

| Sensor Arrangement | Triangular |
|---|------------|
| Connector Angle | -69.7° |
| 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.

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