

### 6.3 MECHANICAL DIMENSIONS

| Frequency MHz | L mm        |          | h mm        |          | d mm       |          |
|---------------|-------------|----------|-------------|----------|------------|----------|
|               | required    | measured | required    | measured | required   | measured |
| 300           | 420.0 ±1 %. |          | 250.0 ±1 %. |          | 6.35 ±1 %. |          |
| 450           | 290.0 ±1 %. |          | 166.7 ±1 %. |          | 6.35 ±1 %. |          |
| 750           | 176.0 ±1 %. |          | 100.0 ±1 %. |          | 6.35 ±1 %. |          |
| 835           | 161.0 ±1 %. |          | 89.8 ±1 %.  |          | 3.6 ±1 %.  |          |
| 900           | 149.0 ±1 %. |          | 83.3 ±1 %.  |          | 3.6 ±1 %.  |          |
| 1450          | 89.1 ±1 %.  |          | 51.7 ±1 %.  |          | 3.6 ±1 %.  |          |
| 1500          | 86.2 ±1 %.  |          | 50.0 ±1 %.  |          | 3.6 ±1 %.  |          |
| 1640          | 79.0 ±1 %.  |          | 45.7 ±1 %.  |          | 3.6 ±1 %.  |          |
| 1750          | 75.2 ±1 %.  |          | 42.9 ±1 %.  |          | 3.6 ±1 %.  |          |
| 1800          | 72.0 ±1 %.  |          | 41.7 ±1 %.  |          | 3.6 ±1 %.  |          |
| 1900          | 68.0 ±1 %.  | 68.70    | 39.5 ±1 %.  | 39.51    | 3.6 ±1 %.  | 3.61     |
| 1950          | 66.3 ±1 %.  |          | 38.5 ±1 %.  |          | 3.6 ±1 %.  |          |
| 2000          | 64.5 ±1 %.  |          | 37.5 ±1 %.  |          | 3.6 ±1 %.  |          |
| 2100          | 61.0 ±1 %.  |          | 35.7 ±1 %.  |          | 3.6 ±1 %.  |          |
| 2300          | 55.5 ±1 %.  |          | 32.6 ±1 %.  |          | 3.6 ±1 %.  |          |
| 2450          | 51.5 ±1 %.  |          | 30.4 ±1 %.  |          | 3.6 ±1 %.  |          |
| 2600          | 48.5 ±1 %.  |          | 28.8 ±1 %.  |          | 3.6 ±1 %.  |          |
| 3000          | 41.5 ±1 %.  |          | 25.0 ±1 %.  |          | 3.6 ±1 %.  |          |
| 3300          | -           |          | -           |          | -          |          |
| 3500          | 37.0 ±1 %.  |          | 26.4 ±1 %.  |          | 3.6 ±1 %.  |          |
| 3700          | 34.7 ±1 %.  |          | 26.4 ±1 %.  |          | 3.6 ±1 %.  |          |
| 3900          | -           |          | -           |          | -          |          |
| 4200          | -           |          | -           |          | -          |          |
| 4600          | -           |          | -           |          | -          |          |
| 4900          | -           |          | -           |          | -          |          |

## 7 VALIDATION MEASUREMENT

The IEC/IEEE 62209-1528 and FCC KDB865664 D01 standards state that the system validation measurements must be performed using a reference dipole meeting the fore mentioned return loss and mechanical dimension requirements. The validation measurement must be performed against a liquid filled flat phantom, with the phantom constructed as outlined in the fore mentioned standards. Per the standards, the dipole shall be positioned below the bottom of the phantom, with the dipole length centered and parallel to the longest dimension of the flat phantom, with the top surface of the dipole at the described distance from the bottom surface of the phantom.

## 7.1 HEAD LIQUID MEASUREMENT

| Frequency<br>MHz | Relative permittivity ( $\epsilon_r'$ ) |          | Conductivity ( $\sigma$ ) S/m |          |
|------------------|-----------------------------------------|----------|-------------------------------|----------|
|                  | required                                | measured | required                      | measured |
| 300              | 45.3 $\pm$ 10 %                         |          | 0.87 $\pm$ 10 %               |          |
| 450              | 43.5 $\pm$ 10 %                         |          | 0.87 $\pm$ 10 %               |          |
| 750              | 41.9 $\pm$ 10 %                         |          | 0.89 $\pm$ 10 %               |          |
| 835              | 41.5 $\pm$ 10 %                         |          | 0.90 $\pm$ 10 %               |          |
| 900              | 41.5 $\pm$ 10 %                         |          | 0.97 $\pm$ 10 %               |          |
| 1450             | 40.5 $\pm$ 10 %                         |          | 1.20 $\pm$ 10 %               |          |
| 1500             | 40.4 $\pm$ 10 %                         |          | 1.23 $\pm$ 10 %               |          |
| 1640             | 40.2 $\pm$ 10 %                         |          | 1.31 $\pm$ 10 %               |          |
| 1750             | 40.1 $\pm$ 10 %                         |          | 1.37 $\pm$ 10 %               |          |
| 1800             | 40.0 $\pm$ 10 %                         |          | 1.40 $\pm$ 10 %               |          |
| 1900             | 40.0 $\pm$ 10 %                         | 38.6     | 1.40 $\pm$ 10 %               | 1.34     |
| 1950             | 40.0 $\pm$ 10 %                         |          | 1.40 $\pm$ 10 %               |          |
| 2000             | 40.0 $\pm$ 10 %                         |          | 1.40 $\pm$ 10 %               |          |
| 2100             | 39.8 $\pm$ 10 %                         |          | 1.49 $\pm$ 10 %               |          |
| 2300             | 39.5 $\pm$ 10 %                         |          | 1.67 $\pm$ 10 %               |          |
| 2450             | 39.2 $\pm$ 10 %                         |          | 1.80 $\pm$ 10 %               |          |
| 2600             | 39.0 $\pm$ 10 %                         |          | 1.96 $\pm$ 10 %               |          |
| 3000             | 38.5 $\pm$ 10 %                         |          | 2.40 $\pm$ 10 %               |          |
| 3300             | 38.2 $\pm$ 10 %                         |          | 2.71 $\pm$ 10 %               |          |
| 3500             | 37.9 $\pm$ 10 %                         |          | 2.91 $\pm$ 10 %               |          |
| 3700             | 37.7 $\pm$ 10 %                         |          | 3.12 $\pm$ 10 %               |          |
| 3900             | 37.5 $\pm$ 10 %                         |          | 3.32 $\pm$ 10 %               |          |
| 4200             | 37.1 $\pm$ 10 %                         |          | 3.63 $\pm$ 10 %               |          |
| 4600             | 36.7 $\pm$ 10 %                         |          | 4.04 $\pm$ 10 %               |          |
| 4900             | 36.3 $\pm$ 10 %                         |          | 4.35 $\pm$ 10 %               |          |

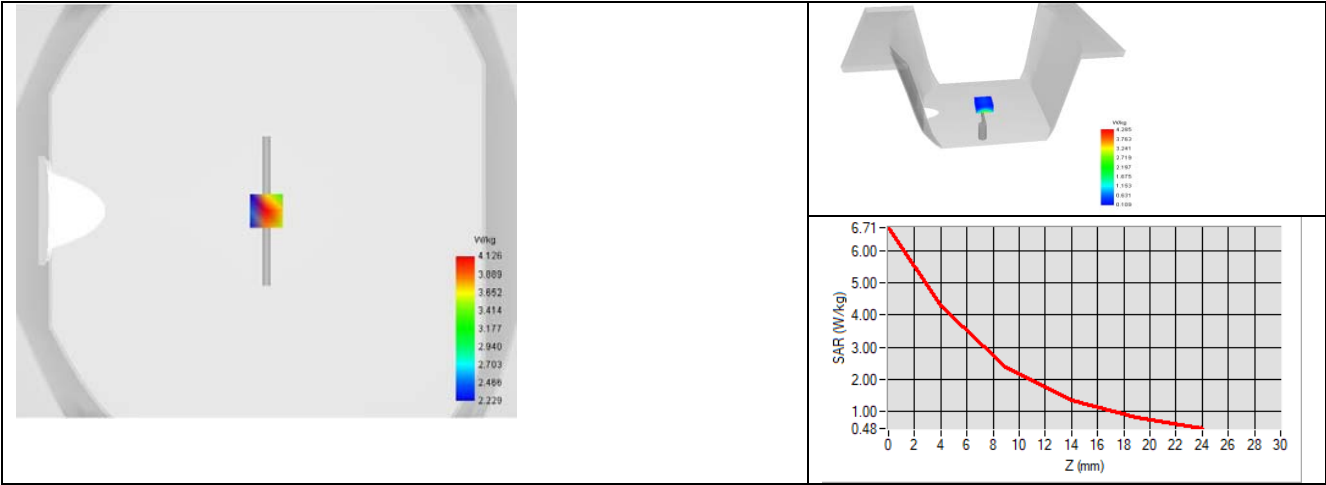
## 7.2 SAR MEASUREMENT RESULT WITH HEAD LIQUID

The IEC/IEEE 62209-1528 and FCC KDB865664 D01 standards state that the system validation measurements should produce the SAR values shown below (for phantom thickness of 2 mm), within the uncertainty for the system validation. All SAR values are normalized to 1 W forward power. In bracket, the measured SAR is given with the used input power.



|                                           |                                                          |
|-------------------------------------------|----------------------------------------------------------|
| Software                                  | OPENSAR V5                                               |
| Phantom                                   | SN 13/09 SAM68                                           |
| Probe                                     | SN 41/18 EPGO333                                         |
| Liquid                                    | Head Liquid Values: $\epsilon_s'$ : 38.4 $\sigma$ : 1.36 |
| Distance between dipole center and liquid | 10.0 mm                                                  |
| Area scan resolution                      | $dx=8mm/dy=8mm$                                          |
| Zoon Scan Resolution                      | $dx=8mm/dy=8mm/dz=5mm$                                   |
| Frequency                                 | 1900 MHz                                                 |
| Input power                               | 20 dBm                                                   |
| Liquid Temperature                        | 20 +/- 1 °C                                              |
| Lab Temperature                           | 20 +/- 1 °C                                              |
| Lab Humidity                              | 30-70 %                                                  |

| Frequency<br>MHz | 1 g SAR (W/kg/W) |              | 10 g SAR (W/kg/W) |              |
|------------------|------------------|--------------|-------------------|--------------|
|                  | required         | measured     | required          | measured     |
| 300              | 2.85             |              | 1.94              |              |
| 450              | 4.58             |              | 3.06              |              |
| 750              | 8.49             |              | 5.55              |              |
| 835              | 9.56             |              | 6.22              |              |
| 900              | 10.9             |              | 6.99              |              |
| 1450             | 29               |              | 16                |              |
| 1500             | 30.5             |              | 16.8              |              |
| 1640             | 34.2             |              | 18.4              |              |
| 1750             | 36.4             |              | 19.3              |              |
| 1800             | 38.4             |              | 20.1              |              |
| 1900             | 39.7             | 39.84 (3.98) | 20.5              | 20.20 (2.02) |
| 1950             | 40.5             |              | 20.9              |              |
| 2000             | 41.1             |              | 21.1              |              |
| 2100             | 43.6             |              | 21.9              |              |
| 2300             | 48.7             |              | 23.3              |              |
| 2450             | 52.4             |              | 24                |              |
| 2600             | 55.3             |              | 24.6              |              |
| 3000             | 63.8             |              | 25.7              |              |
| 3300             | -                |              | -                 |              |
| 3500             | 67.1             |              | 25                |              |
| 3700             | 67.4             |              | 24.2              |              |
| 3900             | -                |              | -                 |              |
| 4200             | -                |              | -                 |              |
| 4600             | -                |              | -                 |              |
| 4900             | -                |              | -                 |              |



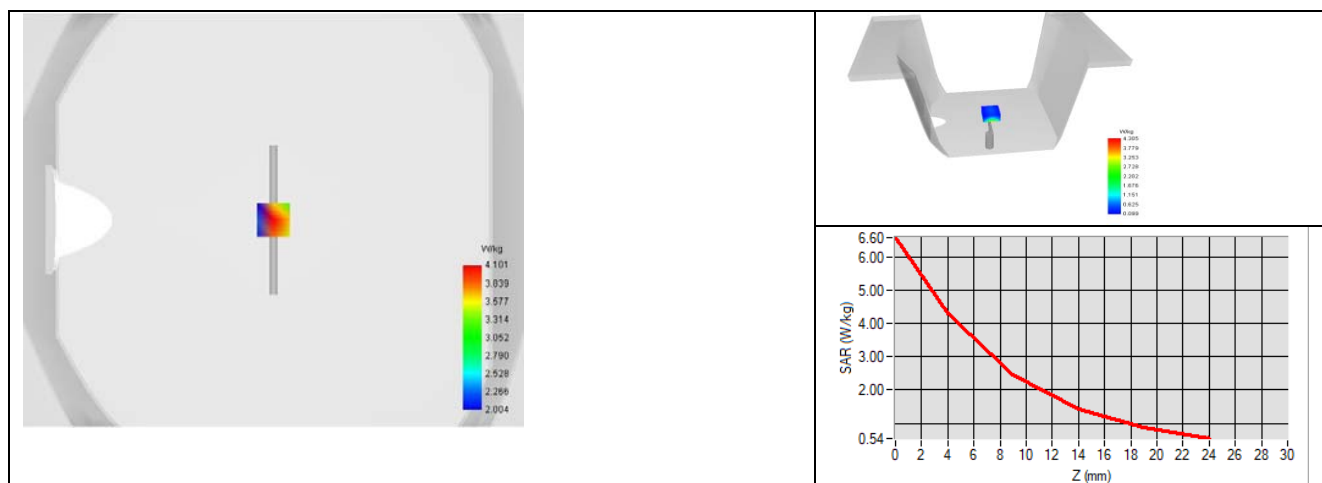
### 7.3 BODY LIQUID MEASUREMENT

| Frequency<br>MHz | Relative permittivity ( $\epsilon_r'$ ) |          | Conductivity ( $\sigma$ ) S/m |          |
|------------------|-----------------------------------------|----------|-------------------------------|----------|
|                  | required                                | measured | required                      | measured |
| 150              | 61.9 $\pm$ 10 %                         |          | 0.80 $\pm$ 10 %               |          |
| 300              | 58.2 $\pm$ 10 %                         |          | 0.92 $\pm$ 10 %               |          |
| 450              | 56.7 $\pm$ 10 %                         |          | 0.94 $\pm$ 10 %               |          |
| 750              | 55.5 $\pm$ 10 %                         |          | 0.96 $\pm$ 10 %               |          |
| 835              | 55.2 $\pm$ 10 %                         |          | 0.97 $\pm$ 10 %               |          |
| 900              | 55.0 $\pm$ 10 %                         |          | 1.05 $\pm$ 10 %               |          |
| 915              | 55.0 $\pm$ 10 %                         |          | 1.06 $\pm$ 10 %               |          |
| 1450             | 54.0 $\pm$ 10 %                         |          | 1.30 $\pm$ 10 %               |          |
| 1610             | 53.8 $\pm$ 10 %                         |          | 1.40 $\pm$ 10 %               |          |
| 1800             | 53.3 $\pm$ 10 %                         |          | 1.52 $\pm$ 10 %               |          |
| 1900             | 53.3 $\pm$ 10 %                         | 55.3     | 1.52 $\pm$ 10 %               | 1.49     |
| 2000             | 53.3 $\pm$ 10 %                         |          | 1.52 $\pm$ 10 %               |          |
| 2100             | 53.2 $\pm$ 10 %                         |          | 1.62 $\pm$ 10 %               |          |
| 2300             | 52.9 $\pm$ 10 %                         |          | 1.81 $\pm$ 10 %               |          |
| 2450             | 52.7 $\pm$ 10 %                         |          | 1.95 $\pm$ 10 %               |          |
| 2600             | 52.5 $\pm$ 10 %                         |          | 2.16 $\pm$ 10 %               |          |
| 3000             | 52.0 $\pm$ 10 %                         |          | 2.73 $\pm$ 10 %               |          |
| 3300             | 51.6 $\pm$ 10 %                         |          | 3.08 $\pm$ 10 %               |          |
| 3500             | 51.3 $\pm$ 10 %                         |          | 3.31 $\pm$ 10 %               |          |
| 3700             | 51.0 $\pm$ 10 %                         |          | 3.55 $\pm$ 10 %               |          |
| 3900             | 50.8 $\pm$ 10 %                         |          | 3.78 $\pm$ 10 %               |          |
| 4200             | 50.4 $\pm$ 10 %                         |          | 4.13 $\pm$ 10 %               |          |
| 4600             | 49.8 $\pm$ 10 %                         |          | 4.60 $\pm$ 10 %               |          |
| 4900             | 49.4 $\pm$ 10 %                         |          | 4.95 $\pm$ 10 %               |          |
| 5200             | 49.0 $\pm$ 10 %                         |          | 5.30 $\pm$ 10 %               |          |
| 5300             | 48.9 $\pm$ 10 %                         |          | 5.42 $\pm$ 10 %               |          |
| 5400             | 48.7 $\pm$ 10 %                         |          | 5.53 $\pm$ 10 %               |          |
| 5500             | 48.6 $\pm$ 10 %                         |          | 5.65 $\pm$ 10 %               |          |
| 5600             | 48.5 $\pm$ 10 %                         |          | 5.77 $\pm$ 10 %               |          |
| 5800             | 48.2 $\pm$ 10 %                         |          | 6.00 $\pm$ 10 %               |          |

#### 7.4 SAR MEASUREMENT RESULT WITH BODY LIQUID

|                                           |                                                          |
|-------------------------------------------|----------------------------------------------------------|
| Software                                  | OPENSAR V5                                               |
| Phantom                                   | SN 13/09 SAM68                                           |
| Probe                                     | SN 41/18 EPGO333                                         |
| Liquid                                    | Body Liquid Values: $\epsilon_{ps}'$ : 55.3 sigma : 1.49 |
| Distance between dipole center and liquid | 10.0 mm                                                  |
| Area scan resolution                      | $dx=8mm/dy=8mm$                                          |
| Zoon Scan Resolution                      | $dx=8mm/dy=8mm/dz=5mm$                                   |
| Frequency                                 | 1900 MHz                                                 |
| Input power                               | 20 dBm                                                   |
| Liquid Temperature                        | 20 +/- 1 °C                                              |
| Lab Temperature                           | 20 +/- 1 °C                                              |
| Lab Humidity                              | 30-70 %                                                  |

| Frequency<br>MHz | 1 g SAR (W/kg/W) | 10 g SAR (W/kg/W) |
|------------------|------------------|-------------------|
|                  | measured         | measured          |
| 1900             | 43.33 (4.33)     | 21.59 (2.16)      |





## 8 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                   | Agilent 8753ES          | MY40003210         | 10/2022                                       | 10/2025                                       |
| Network Analyzer – Calibration kit | Rohde & Schwarz ZV-Z235 | 101223             | 05/2022                                       | 05/2025                                       |
| Network Analyzer – Calibration kit | HP 85033D               | 3423A08186         | 06/2021                                       | 06/2027                                       |
| Calipers                           | Mitutoyo                | SN 0009732         | 10/2022                                       | 10/2025                                       |
| Reference Probe                    | MVG                     | SN 41/18 EPGO333   | 10/2022                                       | 10/2023                                       |
| Multimeter                         | Keithley 2000           | 1160271            | 02/2023                                       | 02/2026                                       |
| Signal Generator                   | Rohde & Schwarz SMB     | 106589             | 04/2022                                       | 04/2026                                       |
| 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                        | Rohde & Schwarz NRVD    | 832839-056         | 11/2022                                       | 11/2025                                       |
| 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                                       |

Client: **STS (Shenzhen)**

Certificate No: **25J02Z000524**

## CALIBRATION CERTIFICATE

Object **DAE3 - SN: 428**

Calibration Procedure(s) **FF-Z11-002-01**  
**Calibration Procedure for the Data Acquisition Electronics (DAEx)**

Calibration date: **September 08, 2025**

This calibration Certificate documents the traceability to national standards, which realize the physical units of measurements(SI). The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

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

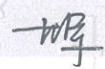
Calibration Equipment used (M&TE critical for calibration)

| Primary Standards | ID # | Cal Date(Calibrated by, Certificate No.) | Scheduled Calibration |
|-------------------|------|------------------------------------------|-----------------------|
|-------------------|------|------------------------------------------|-----------------------|

|                        |         |                                   |        |
|------------------------|---------|-----------------------------------|--------|
| Process Calibrator 753 | 1971018 | 11-Jun-25 (CTTL, No.25J02X004977) | Jun-26 |
|------------------------|---------|-----------------------------------|--------|

|  | 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 10, 2025

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



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### Glossary:

DAE 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.



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E-mail: [emf@caict.ac.cn](mailto: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 mV

Low Range: 1LSB = 61nV, full range = -1.....+3mV

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

| Calibration Factors | X                         | Y                         | Z                         |
|---------------------|---------------------------|---------------------------|---------------------------|
| High Range          | 404.480 $\pm$ 0.15% (k=2) | 404.830 $\pm$ 0.15% (k=2) | 404.597 $\pm$ 0.15% (k=2) |
| Low Range           | 3.95732 $\pm$ 0.7% (k=2)  | 3.95225 $\pm$ 0.7% (k=2)  | 3.91659 $\pm$ 0.7% (k=2)  |

## Connector Angle

|                                           |                  |
|-------------------------------------------|------------------|
| Connector Angle to be used in DASY system | 258.5° $\pm$ 1 ° |
|-------------------------------------------|------------------|



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

Accreditation No.: SCS 0108

Client

STS  
Shenzhen

Certificate No.

EX-3806\_Sep25

## CALIBRATION CERTIFICATE

Object EX3DV4 - SN:3806

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 September 11, 2025

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

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

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards           | ID         | Calibration Date (Certificate No.)     | Sched. Cal. |
|-----------------------------|------------|----------------------------------------|-------------|
| Power Sensor R&S NRP-33T    | SN: 100967 | 30-Apr-25 (No. 1020-300791789)         | Apr-26      |
| N-type mismatch combination | SN: L1119  | 26-Mar-25 (No. 217-04292)              | Mar-26      |
| OCP DAK-12                  | SN: 1016   | 24-Sept-24 (No. OCP-DAK12-1016_Sep24)  | Sep-25      |
| OCP DAK-3.5                 | SN: 1249   | 23-Sept-24 (No. OCP-DAK3.5-1249_Sep24) | Sep-25      |
| Reference Probe EX3DV4      | SN: 7349   | 10-Jan-25 (No. EX3-7349_Jan25)         | Jan-26      |
| DAE4                        | SN: 1301   | 07-Nov-24 (No. DAE4-1301_Nov24)        | Nov-25      |

| Secondary Standards | ID        | Check Date (in house)                            | Sched. Check |
|---------------------|-----------|--------------------------------------------------|--------------|
| ACAP 2020 Setup 1   | SN: L1404 | 30-Sept-24 (No. Report_ACAP2020E-Cave_20240930s) | Sep-25       |
| OCP DAK-12          | SN: 1029  | 27-Feb-25 (No. OCP-DAK12-1029_Feb25)             | Feb-26       |
| OCP DAK-3.5         | SN: 1336  | 09-Dec-24 (No. OCP-DAK3.5-1336_Dec24)            | Dec-25       |

|               |                 |                       |           |
|---------------|-----------------|-----------------------|-----------|
|               | Name            | Function              | Signature |
| Calibrated by | Jeffrey Katzman | Laboratory Technician |           |
| Approved by   | Sven Kühn       | Technical Manager     |           |

Issued: September 11, 2025

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