



SAR  
Dipole Performance Measurement  
Report

EUT Type: SAR Validation Dipole and Waveguide

Model Name: DIP2G450, WGA32

Brand Name: SATIMO

Test Conclusion: Pass

Test Date: 01 Jul . 2024&03 Jul. 2025

Date of Issue: 03 Jul. 2025

Testing Engineer : 

Xin Liu

(Xin.Liu)

Technical Manager : 

Shi fan-long

(Shifan. Long)

Authorized Signatory : 

Bovey Yang

(Bovey Yang)



Any reproduction of this document must be done in full. No single part of this document may be reproduced without permission from STS, All Test Data Presented in this report is only applicable to presented Test sample.



ISSUED BY  
Shenzhen STS Test Services Co., Ltd.

| Kind of Equipment         | Manufacturer | Type No.            | Serial No.          | Last Calibration | Calibrated Until |
|---------------------------|--------------|---------------------|---------------------|------------------|------------------|
| PC                        | Acer         | N/A                 | N/A                 | N/A              | N/A              |
| E-Field Probe             | MVG          | SSE2                | SN 08/21<br>EPGO352 | 2024.09.18       | 2025.09.17       |
| Dielectric Probe Kit      | MVG          | SCLMP               | SN 32/14<br>OCPG67  | 2024.09.18       | 2025.09.17       |
| Phantom1                  | MVG          | SAM                 | SN 32/14<br>SAM115  | N/A              | N/A              |
| Phantom2                  | MVG          | SAM                 | SN 32/14<br>SAM116  | N/A              | N/A              |
| Attenuator                | Agilent      | 99899               | DC-18GHz            | N/A              | N/A              |
| Directional coupler       | Narda        | 4226-20             | 3305                | N/A              | N/A              |
| Network Analyzer          | Agilent      | E5071C              | MY46520378          | 2024-09-25       | 2025-09-26       |
| Multi Meter               | Keithley     | Multi Meter<br>2000 | 4050073             | 2024-09-25       | 2025-09-26       |
| Signal Generator          | Agilent      | N5182A              | MY50140530          | 2024-09-25       | 2025-09-26       |
| Power Amplifier           | DESAY        | ZHL-42W             | 9638                | 2024-09-25       | 2025-09-26       |
| Power Meter               | R&S          | NRP                 | 100510              | 2024-09-25       | 2025-09-26       |
| Power Sensor              | R&S          | NRP-Z11             | 101919              | 2024-09-25       | 2025-09-26       |
| Power Sensor              | Keysight     | U2021XA             | MY56280002          | 2024-09-25       | 2025-09-26       |
| Temperature<br>hygrometer | SuWei        | SW-108              | N/A                 | 2024.10.15       | 2025.10.14       |
| Thermograph               | Elitech      | RC-4                | S/N<br>EF7176501537 | 2024.10.15       | 2025.10.14       |



## 2. <Justification of the extended calibration>

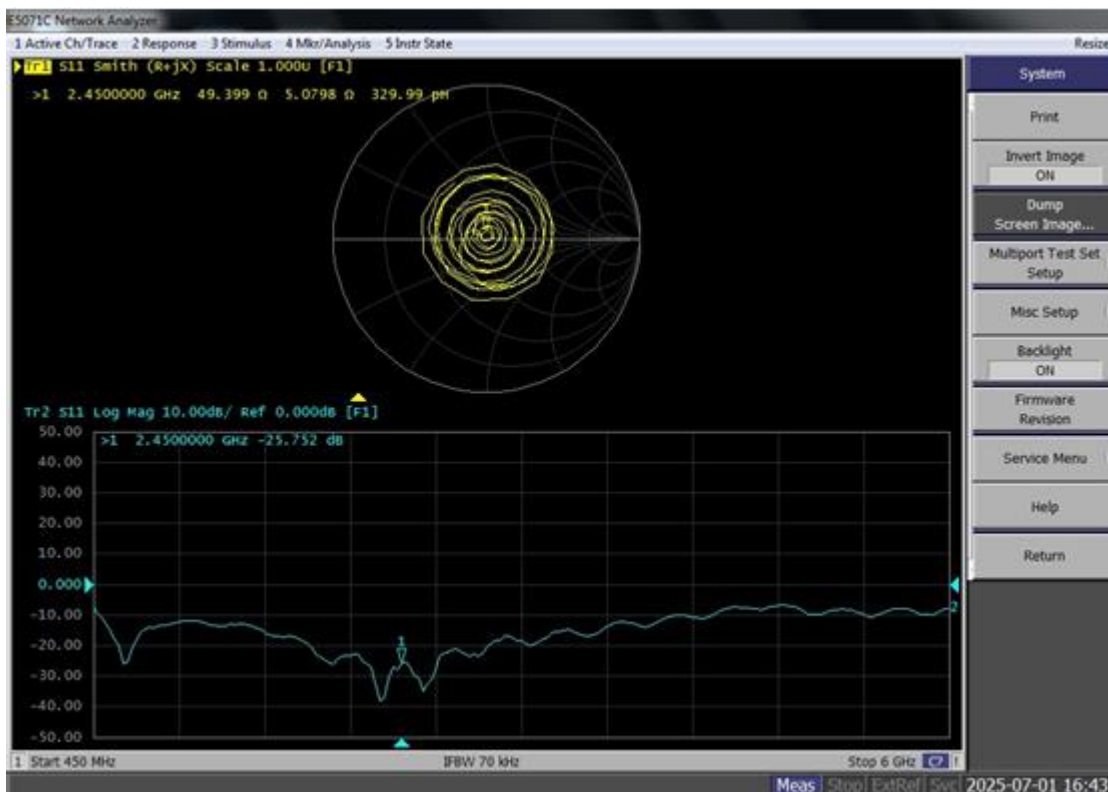
Referring to KDB 865664 D01, if dipoles are verified in return loss < -20dB, (within 20% of prior calibration), and in impedance (within 5 ohm of prior calibration), the annual calibration is not necessary and the calibration interval can be extended.

| Head 2450 MHz       |                  |           |           |            |
|---------------------|------------------|-----------|-----------|------------|
| Date of Measurement | Return Loss (dB) | Delta (%) | Impedance | Delta(ohm) |
| 2023.07.04          | -26.03           | -         | 46.3      | -          |
| 2024.07.01          | -26.42           | 1.50      | 47.25     | 0.95       |
| 2025.07.03          | -25.75           | 3.38      | 49.40     | 3.10       |

The return loss is < -20dB, within 20% of prior calibration; the impedance is within 5 ohm of prior calibration. Therefore the verification result should support extended calibration.

### <Dipole Verification Data>

Head 2450 MHz





ISSUED BY  
Shenzhen STS Test Services Co., Ltd.

| Head 5000 MHz       |                  |           |           |            |
|---------------------|------------------|-----------|-----------|------------|
| Date of Measurement | Return Loss (dB) | Delta (%) | Impedance | Delta(ohm) |
| 2023.07.04          | < -8.23          | -         | -         | -          |
| 2024.07.01          | -9.10            | 10.57     | -         | -          |
| 2025.07.01          | -8.59            | 17.86-    | -         | -          |

The return loss is <-8dB, within 20% of prior calibration; Therefore the verification result should support extended calibration.

<Dipole Verification Data>

Head 5000MHz

