

Calibration Laboratory of
Schmid & Partner
Engineering AG
 Zougstrasse 43, 8004 Zürich, Switzerland



S Schweizerischer Kalibrierdienst
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S Swiss Calibration Service

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 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: **HCT**
 Gyeonggi-do, Republic of Korea

Certificate No. **D835V2-4d165_Apr25**

CALIBRATION CERTIFICATE

Object: **D835V2 - SN: 4d165**

Calibration procedure(s): **QA GAL-05.v12**
 Calibration Procedure for SAR Validation Sources between 0.7 - 3 GHz

Calibration date: **April 14, 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 ± 3)°C and humidity ≤ 70%.

Calibration Equipment used (M&PE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Cal
Power Sensor R&S NRP331	SN: 100967	26-Mar-25 (No. 217-04290)	Mar-26
Power Sensor R&S NRP18A	SN: 101859	06-Feb-25 (No. 4030A315009541)	Feb-26
Spectrum Analyzer R&S FSV40	SN: 101832	29-Jan-25 (No. 4030A315009656)	Jan-26
3.5mm mismatch combination	SN: 1152	24-Mar-25 (No. 217-04293)	Mar-26
DCP DAK-12	SN: 10116	24-Sept-24 (No. OCP-DAK12-10116_Sep24)	Sep-25
OCP DAK-3.5	SN: 1248	23-Sept-24 (No. OCP-DAK3.5-1248_Sep24)	Sep-25
Reference Probe EX3DV4	SN: 7348	10-Jan-25 (No. EX3-7348_Jan25)	Jan-26
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: 1500	28-May-24 (No. 675-ACAD_Source_Box-240528)	May-25
Signal Generator R&S SMB100A	SN: 152091	28-May-24 (No. 675-CAL15-S4588-240528)	May-25
Mismatch: BMA	SN: 1152	22-May-24 (No. 675-Mismatch_SMA-240522)	May-25

	Name	Function	Signature
Calibrated by	Leif Klyener	Laboratory Technician	
Approved by	Gven Künni	Technical Manager	
Issued: April 14, 2025			
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44/44	9.1.1/3.1	9.1.1/3.1	9.1.1/3.1
44/44	9.1.1/3.1	9.1.1/3.1	9.1.1/3.1

Certificate No: D835V2-4d165_Apr25

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Accreditation No.: **SCS 0108**

Glossary

TSL: tissue simulating liquid
ConvF: sensitivity in TSL / NORM v.g.a.
N/A: not applicable or not measured

Calibration is Performed According to the Following Standards

- IEC/IEEE 62209-1529, "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 1529: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- KDS 856664, "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: D825V2-4d165 Apr25

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D825V2-8N-4d165

April 14, 2025

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	$dx, dy = 6\text{mm}$, $dz = 1.5\text{mm}$	Graded Ratio = 1.5 mm (Z direction)
Frequency	835 MHz $\pm 1\text{MHz}$	

HSL parameters at 835 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal HSL parameters	22.0 °C	41.5	0.800 mho/m
Measured HSL parameters	(22.0 $\pm$ 0.2) °C	42.6 $\pm$ 3%	0.930 mho/m $\pm$ 6%
HSL temperature change during test	< 0.5 °C		

SAR result with HSL at 835 MHz

SAR averaged over 1 cm ³ (1 g) of HSL	Condition	
SAR for nominal HSL parameters	24 dBm input power	2.34 W/kg
SAR for nominal HSL parameters	normalized to 1W	8.32 W/kg $\pm$ 17.0% (k = 2)

SAR averaged over 10 cm ³ (10 g) of HSL	Condition	
SAR for nominal HSL parameters	24 dBm input power	1.51 W/kg
SAR for nominal HSL parameters	normalized to 1W	6.01 W/kg $\pm$ 16.5% (k = 2)

0805V2- EN/ 4d165

April 14, 2025

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with HSL at 835 MHz

Impedance	$50.3 \Omega - 6.9 j \Omega$
Return Loss	-24.6 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.389 ns
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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	SREAG
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D835V2 - SN: 4d165

April 14, 2025

System Performance Check Report

Summary

Signal	Frequency (MHz)	TSL	Power (dBm)
DR101 - (H44)165	855	HE	24

Exposure Conditions

Phantom Section, TSL	Test Distance (mm)	Band	Cross, (W)	Frequency (MHz)	Channel Number	Conversion Factor	TSL Conductivity (S/m)	TSL Permittivity
HE	15	CB, 0 -	855, 0	855, 0		9.51	0.49	42.8

Hardware Setup

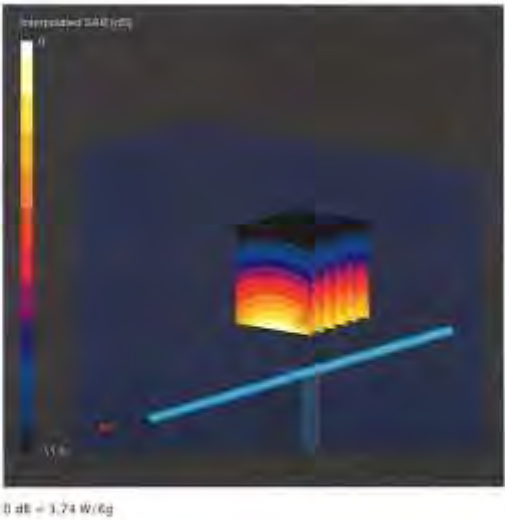
Phantom	TSL Measured Date	Probe, Calibration Date	D83, Calibration Date
Phantom	HE, 2025-04-14	PR30V4 - SN(348, 262)(01-18)	D834p SN(856, 2854-10-08)

Scans Setup

	Zoom Scan
Grid Extent (mm)	50 x 50 x 50
Grid Steps (mm)	8.0 x 8.0 x 1.0
Sensor Surface (mm)	1.4
Grided Grid	Yes
Griding Rate	1.0
WMA	N/A
Weight Distance	WMS - 8p
Scan Method	Measured

Measurement Results

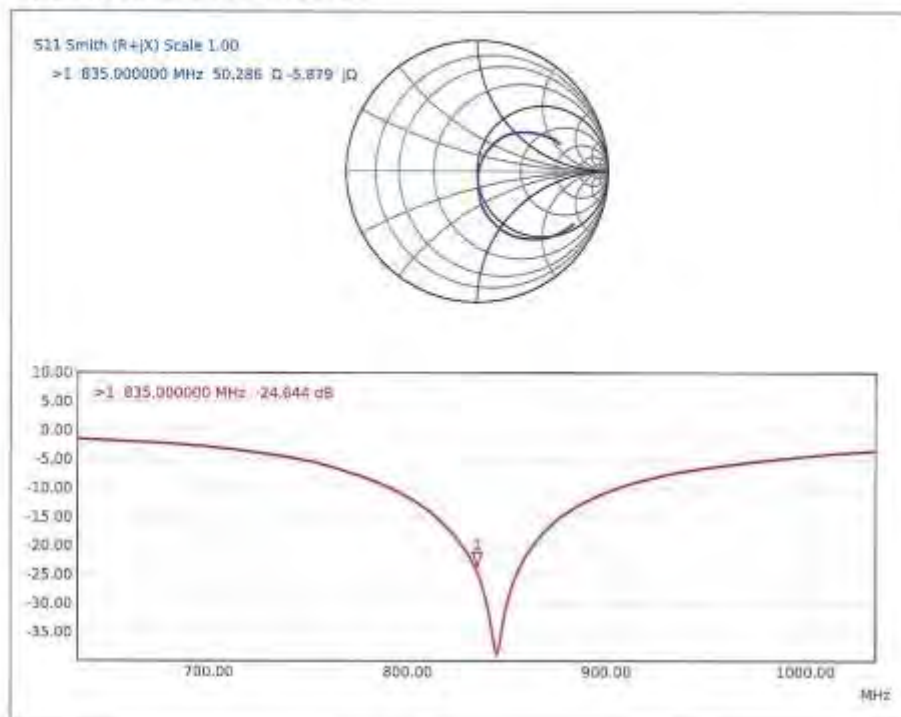
	Zoom Scan
Date	2025-04-14
psSAR(1g) (W/Kg)	1.34
psSAR(10g) (W/Kg)	0.51
Power Drift (dB)	0.00
Power Scaling	Disabled
Scaling Factor (dB)	
TSL Correction	Positive / Negative



D835V2-SN: 4d165

April 14, 2025

Impedance Measurement Plot for HSL



Certificate No: D835V2-4d165_Apr25

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Accreditation No.: **SCS 0108**

Client: **HCT**
 Gyeonggi-do, Republic of Korea

Certificate No.: **D1600V2-2d015_Apr25**

CALIBRATION CERTIFICATE

Object: **D1600V2 - SN: 2d015**

Calibration procedure(s): **QA CAL-05.v12**
 Calibration Procedure for SAR Validation Sources between 0.7 - 3 GHz

Calibration date: **April 17, 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 ± 3) °C and humidity < 70%.
 Calibration Equipment used (M&PE critical for calibration)

Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Cal
Power Sensor R&S NRP-33T	SN: 100867	28-Mar-25 (No. 217-04290)	Mar-26
Power Sensor R&S NRP16A	SN: 101889	06-Feb-25 (No. 4030A315009541)	Feb-26
Spectrum Analyzer R&S FSV40	SN: 101632	29-Jan-25 (No. 4030A315006658)	Jan-26
3.5mm mismatch combination	SN: 1152	24-Mar-25 (No. 217-04293)	Mar-26
CCP DAK-12	SN: 1016	24-Sep-24 (No. CCP-DAK12-1016_Sep24)	Sep-25
CCP DAK-3.5	SN: 1249	23-Sep-24 (No. CCP-DAK3.5-1249_Sep24)	Sep-25
Reference Probe EX3004	SN: 7349	10-Jan-25 (No. EX3-7349_Jan25)	Jan-26
DAE4ip	SN: 1862	05-Nov-24 (No. DAE4ip-1862_Nov24)	Nov-25

Secondary Standards	ID	Check Date (in house)	Scheduled Check
ACAD Source Box	SN: 1000	29-May-24 (No. 675-ACAD_Source_Box-240528)	May-25
Signal Generator R&S SMR100A	SN: 182091	29-May-24 (No. 675-CAL16-S4588-240528)	May-25
Mismatch: SMA	SN: 1102	22-May-24 (No. 675-Mismatch_SMA-240522)	May-25

Calibrated by:	Name: Claude Leuten	Function: Laboratory Technician	 Issued: April 22, 2025
Approved by:	Name: Sven Rüth	Function: Technical Manager	

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재	김지은	
일	2024/04/26	2024/05/02

Certificate No.: **D1600V2-2d015_Apr25**

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Accreditation No.: **SCS 0108**

Glossary

TSL: tissue simulating liquid
 CanvF: sensitivity in TSL / NORM x/y/z
 N/A: not applicable or not measured

Calibration is Performed According to the Following Standards

- IEC/IEEE 82208-1528, "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 Model, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- KDP 855664, "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 in 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%.

D1800V2 - EN:20010

April 17, 2025

Measurement Conditions

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

DASY Version	DASY8 Module SAR	18.4.D
Extrapolation	Advanced Extrapolation	
Phantom	Modular Flat Phantom	
Distance Dipole Center - TSL	10 mm	with spacer
Zoom Scan Resolution	$dx, dy = 5\text{ mm}; dz = 1.5\text{ mm}$	Graded Ratio = 1.5 mm (Z direction)
Frequency	$1800\text{ MHz} \pm 1\text{ MHz}$	

HSL parameters at 1800 MHz

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal HSL parameters	22.0 °C	40.0	1.40 mho/m
Measured HSL parameters	$(22.0 \pm 0.2)^\circ\text{C}$	$41.3 \pm 6\%$	$1.39\text{ mho/m} \pm 6\%$
HSL temperature change during test	$< 0.5^\circ\text{C}$		

SAR result with HSL at 1800 MHz

SAR averaged over 1 cm ³ (1 g) of HSL	Condition	
SAR for nominal HSL parameters	24 dBm input power	9.56 W/kg
SAR for nominal HSL parameters	normalized to 1W	$38.1\text{ W/kg} \pm 17.7\% (k=2)$

SAR averaged over 10 cm ³ (10 g) of HSL	Condition	
SAR for nominal HSL parameters	24 dBm input power	5.04 W/kg
SAR for nominal HSL parameters	normalized to 1W	$20.1\text{ W/kg} \pm 16.5\% (k=2)$

D1800V2 - SN: 2d015

April 17, 2025

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with HSL at 1800 MHz

Impedance	40.8 Ω - 4.1 j Ω
Return Loss	-25.4 dB

General Antenna Parameters and Design

Electrical Delay (one direction)	1.214 ns
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After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured. The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard. No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

Additional EUT Data

Manufactured by	SPEAG
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D1800V2 - SN: 2d015

April 17, 2025

System Performance Check Report

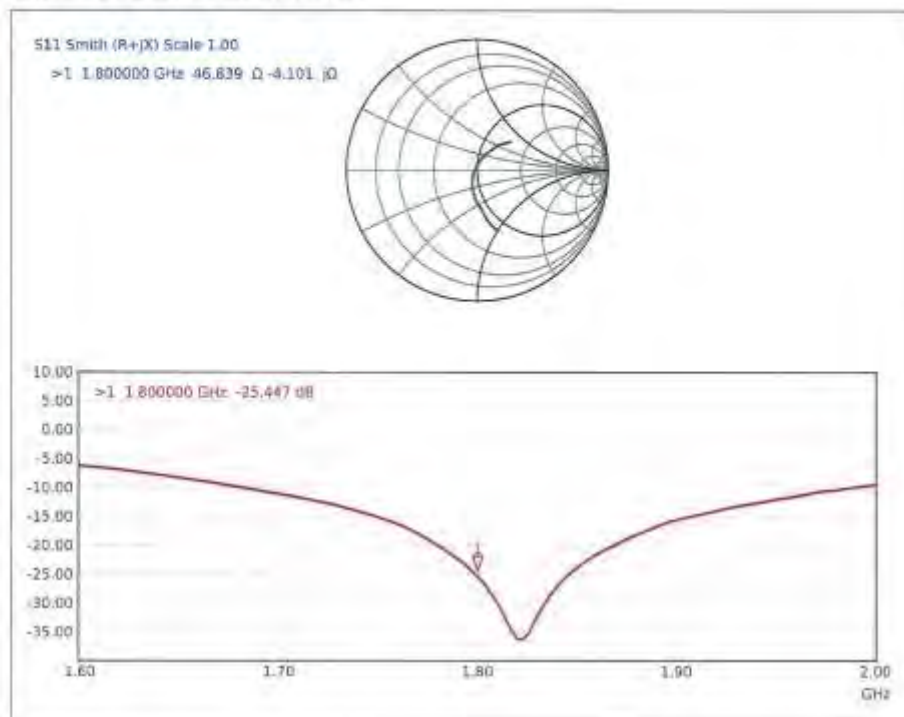
Summary						
Chipset	Frequency (MHz)		TSI	Power (Watt)		
(1800V2 - 2d015) E	1600		45L	84		
Exposure Conditions						
Photon Section, TSI	Test Distance (mm)	Band	Grain, (µm)	Frequency (MHz)	Channel Number	Conversion Factor
Flat	10	CW, 20	1800	1600	7.94	1.59
				TSI Remittance		
				#1.3		
Hardware Setup						
Processor	TSI, Measured Date		Probe, Calibration Date		DAE, Calibration Date	
MTF V8.0 Core	45L, 2025-04-17		8030V4 - 507948, 2025-01-10		DAE40 Sn1652, 2024-11-05	
Scans Setup				Measurement Results		
Zero Scan				Zero Scan		
Grid Entry (mm)	30 x 30 x 30			Date	2025-04-17	
Grid Step (mm)	0.1 x 0.1 x 0.1			acSAI1g (W/Kg)	0.58	
Sensor Surface (mm)	1.4			acSAI1g2 (W/Kg)	3.04	
Gradient Unit	Yes			Power Shift (dB)	0.60	
Grating Ratio	1.3			Power Scaling	Disabled	
SSM	N/A			Scaling Factor (dB)		
Software Reference	VMS - 6p			TSI Correction	Positive / Negative	
Scan Method	Measured					



D1800V2 - SN: 2d015

April 17, 2025

Impedance Measurement Plot for HSL



Certificate No: D1800V2-2d015_Apr25

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Accreditation No.: **SCS 0108**

Client **HCT**
Gyeonggi-do, Republic of Korea

Certificate No. **D1900V2-5d061_Jan25**

CALIBRATION CERTIFICATE

Object **D1900V2 - SN: 5d061**

Calibration procedure(s) **QA CAL-05.v12**
Calibration Procedure for SAR Validation Sources between 0.7 - 3 GHz

Calibration date **January 20, 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 ± 3)°C and humidity < 70%.

Calibration Equipment used (M&E critical for calibration)

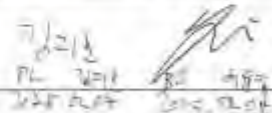
Primary Standards	ID	Cal Date (Certificate No.)	Scheduled Cal
Power Sensor R&S NRP-831	SN: 100967	28-Mar-24 (No. 217-04038)	Mar-25
Power Sensor R&S NRP18A	SN: 101659	22-Jul-24 (No. 4030A315008547)	Jul-25
Spectrum Analyzer R&S FSV40	SN: 101832	25-Jan-24 (No. 4030-315007551)	Jan-25
Mismatch: Short [S4188] Attenuator [S4429]	SN: 1152	28-Mar-24 (No. 217-04050)	Mar-25
QCP DAK-12	SN: 1016	24-Sept-24 (No. QCP-DAK12-1016_Sep24)	Sep-25
QCP DAK-3.5	SN: 1249	23-Sept-24 (No. QCP-DAK3.5-1249_Sep24)	Sep-25
Reference Probe EX30V4	SN: 7349	10-Jan-25 (No. EX3-7349_Jan25)	Jan-26
DAE4p	SN: 1836	28-Oct-24 (No. DAE4p-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 SM8100A	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	Paula Pina	Laboratory Technician	
Approved by	Stefi Kohn	Technical Manager	
Issued: January 21, 2025			
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Certificate No: D1900V2-5d061_Jan25

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- KDB 865884, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation

- DASY System Handbook

Methods Applied and Interpretation of Parameters

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- **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%.

D1900V2 - SN: 5d061

January 20, 2025

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	$dx, dy = 8\text{mm}, dz = 1.5\text{mm}$	Graded Ratio = 1.5 mm (Z direction)
Frequency	1900MHz $\pm 1\text{MHz}$	

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	$(22.0 \pm 0.2)^\circ\text{C}$	$38.8 \pm 6\%$	$1.40\text{ mho/m} \pm 6\%$
Head TSL temperature change during test	$< 0.5^\circ\text{C}$		

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	9.75 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	$35.8\text{ W/kg} \pm 17.0\% (n = 2)$

SAR averaged over 10 cm ³ (10 g) of Head TSL	Condition	
SAR for nominal Head TSL parameters	24 dBm input power	5.12 W/kg
SAR for nominal Head TSL parameters	normalized to 1W	$20.4\text{ W/kg} \pm 15.5\% (n = 2)$