

**Calibration Laboratory of
Schmid & Partner
Engineering AG**
Zeughausstrasse 43, 8004 Zurich, Switzerland



S Schweizerischer Kalibrierdienst
C Service suisse d'étalonnage
S Servizio svizzero di taratura
S Swiss Calibration Service

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**

Glossary:

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

Calibration is Performed According to the Following Standards:

- a) IEC/IEEE 62209-1528, "Measurement Procedure For The Assessment Of Specific Absorption Rate Of Human Exposure To Radio Frequency Fields From Hand-Held And Body-Worn Wireless Communication Devices - Part 1528: Human Models, Instrumentation And Procedures (Frequency Range of 4 MHz to 10 GHz)", October 2020.
- b) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Additional Documentation:

- c) 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 source is mounted in a touch configuration below the center marking of the flat phantom.
- *Return Loss:* This parameter is measured with the source positioned under the liquid filled phantom (as described in the measurement condition clause). The Return Loss ensures low reflected power. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The 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	DASY5	V52.10.4
Extrapolation	Advanced Extrapolation	
Phantom	ELI4 Flat Phantom	Shell thickness: 2 ± 0.2 mm
EUT Positioning	Touch Position	
Zoom Scan Resolution	$dx, dy = 4.0$ mm, $dz = 1.4$ mm	Graded Ratio = 1.4 (Z direction)
Frequency	13 MHz ± 1 MHz	

HSL parameters

The following parameters and calculations were applied.

	Temperature	Permittivity	Conductivity
Nominal HSL parameters	22.0 °C	55.0	0.75 mho/m
Measured HSL parameters	(22.0 ± 0.2) °C	53.1 ± 6 %	0.72 mho/m ± 6 %
HSL temperature change during test	< 0.5 °C	----	----

SAR result with HSL

SAR averaged over 1 cm^3 (1 g) of HSL	Condition	
SAR measured	1 W input power	0.505 W/kg
SAR for nominal HSL parameters	normalized to 1W	0.518 W/kg ± 18.4 % ($k=2$)

SAR averaged over 10 cm^3 (10 g) of HSL	condition	
SAR measured	1 W input power	0.318 W/kg
SAR for nominal HSL parameters	normalized to 1W	0.326 W/kg ± 18.0 % ($k=2$)

Appendix (Additional assessments outside the scope of SCS 0108)

Antenna Parameters with HSL

Impedance, transformed to feed point	48.2 Ω + 2.4 j Ω
Return Loss	- 30.3 dB

Additional EUT Data

Manufactured by	SPEAG
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DASY5 Validation Report for HSL

Date: 19.06.2025

Test Laboratory: SPEAG, Zurich, Switzerland

DUT: CLA13; Type: CLA13; Serial: CLA13 - SN: 1025

Communication System: UID 0 - CW; Frequency: 13 MHz

Medium parameters used: $f = 13$ MHz; $\sigma = 0.72$ S/m; $\epsilon_r = 53.1$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2011)

DASY52 Configuration:

- Probe: EX3DV4 - SN3877; ConvF(15.48, 15.48, 15.48) @ 13 MHz; Calibrated: 06.01.2025
- Sensor-Surface: 1.4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn654; Calibrated: 18.10.2024
- Phantom: ELI v6.0; Type: QDOVA003AA; Serial: TP:2034
- DASY52 52.10.4(1535); SEMCAD X 14.6.14(7501)

CLA Calibration for HSL-LF Tissue/CLA-13, touch configuration, Pin=1W/Zoom Scan, dist=1.4mm (8x10x8)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=1.4mm

Reference Value = 30.45 V/m; Power Drift = -0.09 dB

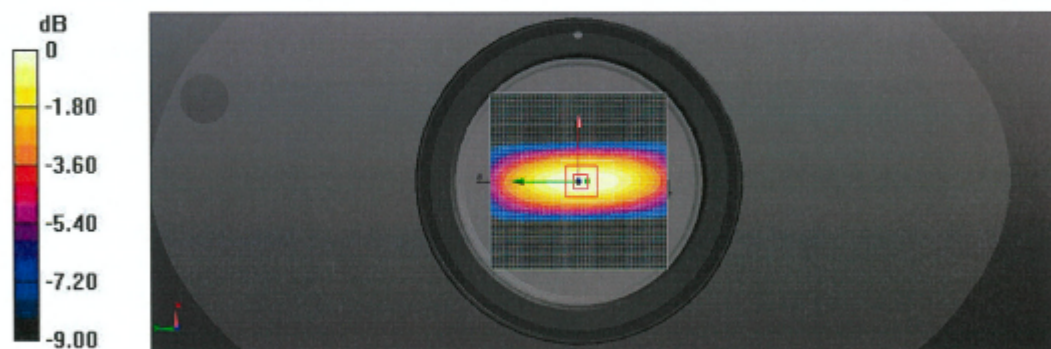
Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.505 W/kg; SAR(10 g) = 0.318 W/kg

Smallest distance from peaks to all points 3 dB below = 21.5 mm

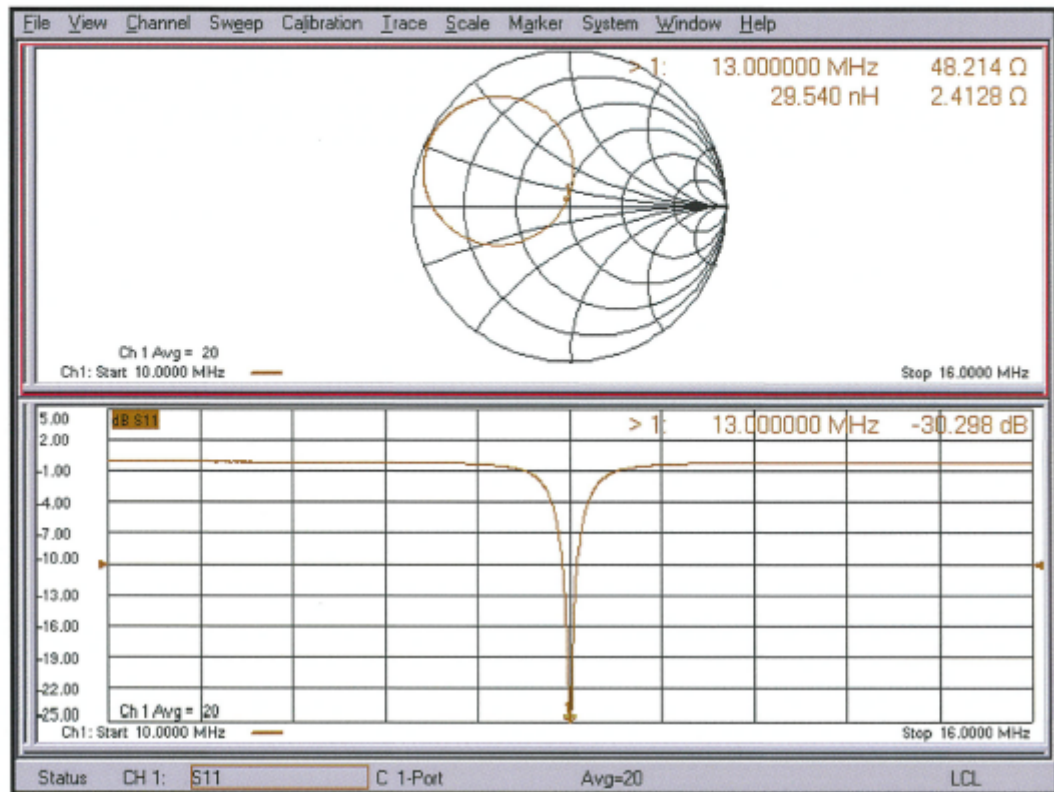
Ratio of SAR at M2 to SAR at M1 = 76.9%

Maximum value of SAR (measured) = 0.747 W/kg



0 dB = 0.747 W/kg = -1.27 dBW/kg

Impedance Measurement Plot for HSL



LIMS ID	Description	Type/Model	Serial Number	Manufacture
230872	RF Power Source	POWERSORCE1	4300	SPEAG

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Accreditation No.: **SCS 0108**

Client **UL Shonan**
Hiratsuka, Japan

Certificate No. **PS1-4300_Jan25**

CALIBRATION CERTIFICATE

Object **POWERSOURCE1 - SE UMS 160 CB - SN: 4300**

Calibration procedure(s) **QA CAL-44.v4**
Calibration procedure for stabilized RF sources

Calibration date **January 03, 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 (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
Power sensor NRP-Z91	SN: 103245	26-Mar-24 (No. 217-04037)	Mar-25
R&S FSV40 Spectrum Analyzer	SN: 101832	25-Jan-24 (No. 4030-315007551)	Jan-25

Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power sensor NRP-Z91	SN: 103650	13-Jul-18 (in house check Aug-24)	In house check: Aug-26
Power sensor NRP-Z91	SN: 103651	13-Jul-18 (in house check Aug-24)	In house check: Aug-26
RF generator SMCV100B	SN: 103053	21-Oct-20 (in house check Aug-24)	In house check: Aug-26

	Name	Function	Signature
Calibrated by	Jeffrey Katzman	Laboratory Technician	
Approved by	Sven Kühn	Technical Manager	
This calibration certificate shall not be reproduced except in full without written approval of the laboratory.			Issued: January 03, 2025

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Glossary

CW Continuous wave
ADC Analog to Digital Conversion value in mV

Calibration is Performed According to the Following Standards

- Internal procedure QA CAL-44-Calibration of stabilized RF power sources

Methods Applied and Interpretation of Parameters

- *Forward Power Calibration:* The forward power of is calibrated against the reference power meter for each frequency from -5 dBm to +17 dBm in 1 dB steps. At each calibration point the output power is compared to the reading of the reference power meter and the difference is calculated.
- The following parameters as documented in the Appendix contain technical information as a result from the acceptance test and require no uncertainty.
 - *ADC Adjustment Sets:* Adjustment Factors have been assessed for forward and reflected power during pre-calibration. At each frequency, adjustment points are recorded for different power levels; 23 points from -5 dBm to +17 dBm for forward power and 4 points from -25 dBm to +5 dBm for reflected power detector ADC values. For forward power, the level dependent conversion function is measured for each adjustment point at each frequency. For reflected power, the level dependent conversion function is calculated based on linear interpolation between the adjustment points at each frequency.
 - *Harmonic distortion:* Verification of the 2nd, 3rd and 4th order harmonic distortion.
 - *Frequency measurement:* Verification of the POWERSOURCE nominal frequency.
 - *Power Verification:* Reflected power verification against the reference power meter.

POWERSOURCE1 - SN: 4300

January 03, 2025

Measurement Conditions

Unit Type	POWERSOURCE1 (SE UMS 160 CB)	SN: 4300
Evaluation SW Version	POWERSOURCE1 Calibrator	1.0.0.514
Firmware SW Version	POWERSOURCE1 Firmware	2.016

Forward Power Calibration

Forward power acceptance criteria: 95% of the calibration points shall be within < 0.25 dB (manufacturer specifications), all calibration points shall be within < 0.375 dB, corresponding to a coverage probability of 99.73%.

Uncertainty of the forward power calibration is ± 0.43 dB ($k=2$).

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%.

POWERSOURCE1 - SN: 4300

January 03, 2025

f/MHz	P _{wd} / dBm										
	-5	-4	-3	-2	-1	0	1	2	3	4	5
600	-0.05	-0.03	-0.05	-0.06	-0.05	-0.04	-0.05	-0.06	-0.04	-0.05	-0.05
650	0.00	-0.02	-0.01	-0.02	-0.02	-0.02	-0.02	-0.03	-0.03	-0.04	-0.03
750	0.08	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.07	0.07	0.07
835	0.06	0.06	0.05	0.06	0.06	0.06	0.05	0.06	0.05	0.05	0.04
850	0.08	0.06	0.06	0.07	0.08	0.06	0.07	0.05	0.06	0.05	0.05
900	-0.06	-0.06	-0.06	-0.06	-0.06	-0.08	-0.07	-0.06	-0.08	-0.07	-0.05
1300	-0.07	-0.08	-0.06	-0.05	-0.08	-0.07	-0.06	-0.07	-0.08	-0.08	-0.08
1450	0.05	0.06	0.05	0.05	0.05	0.05	0.04	0.04	0.04	0.03	0.03
1500	-0.03	-0.02	-0.05	-0.04	-0.03	-0.03	-0.03	-0.03	-0.03	-0.04	-0.03
1640	-0.06	-0.04	-0.05	-0.05	-0.04	-0.05	-0.05	-0.05	-0.07	-0.06	-0.03
1750	0.06	0.06	0.07	0.04	0.04	0.05	0.05	0.04	0.05	0.04	0.04
1800	-0.08	-0.08	-0.06	-0.08	-0.07	-0.06	-0.06	-0.07	-0.07	-0.08	-0.08
1900	-0.07	-0.07	-0.08	-0.06	-0.06	-0.07	-0.07	-0.07	-0.07	-0.09	-0.06
1950	0.03	0.05	0.03	0.03	0.04	0.05	0.03	0.03	0.02	0.05	0.06
2000	-0.01	-0.02	-0.01	-0.02	-0.01	-0.01	-0.01	-0.02	-0.01	-0.03	-0.02
2100	0.04	0.03	0.05	0.01	0.04	0.06	0.04	0.02	0.02	0.03	0.02
2300	-0.06	-0.08	-0.06	-0.07	-0.07	-0.06	-0.05	-0.07	-0.06	-0.07	-0.07
2450	0.05	0.04	0.02	0.04	0.02	0.01	0.00	0.03	0.02	0.02	0.02
2550	-0.05	-0.06	-0.05	-0.06	-0.05	-0.06	-0.05	-0.04	-0.06	-0.06	-0.04
2600	0.02	0.03	0.01	0.02	0.01	0.02	0.01	0.02	0.01	0.03	0.02
3000	0.01	0.02	0.02	0.02	0.03	0.03	0.01	0.03	0.03	0.02	0.03
3300	-0.08	-0.05	-0.06	-0.06	-0.08	-0.07	-0.06	-0.07	-0.06	-0.07	-0.06
3400	-0.05	-0.04	-0.04	-0.04	-0.03	-0.06	-0.05	-0.04	-0.03	-0.04	-0.04
3500	0.03	0.05	0.02	0.03	0.02	0.04	0.02	0.05	0.02	0.02	0.02
3600	0.02	0.03	0.02	0.03	0.03	0.02	0.02	0.04	0.02	0.02	0.03
3700	-0.02	-0.01	-0.02	-0.02	-0.01	-0.02	0.00	-0.02	-0.04	-0.03	-0.03
3800	-0.07	-0.06	-0.05	-0.06	-0.04	-0.04	-0.05	-0.06	-0.07	-0.06	-0.05
3900	-0.06	-0.04	-0.04	-0.05	-0.04	-0.07	-0.05	-0.04	-0.05	-0.05	-0.05
4000	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.03	0.02	0.04
4100	0.05	0.04	0.02	0.03	0.05	0.03	0.05	0.02	0.03	0.04	0.03
4200	-0.02	-0.01	-0.01	-0.01	-0.03	-0.01	-0.04	-0.03	-0.02	-0.01	-0.02
4300	-0.04	-0.07	-0.05	-0.05	-0.04	-0.06	-0.06	-0.06	-0.06	-0.07	-0.06
4400	-0.04	-0.03	-0.04	-0.05	-0.05	-0.06	-0.05	-0.06	-0.05	-0.02	-0.04
4500	0.03	0.01	0.04	0.03	0.02	0.02	0.03	0.03	0.03	0.03	0.03
4600	0.04	0.03	0.03	0.03	0.04	0.03	0.04	0.03	0.05	0.02	0.03
4700	-0.03	-0.01	-0.03	-0.01	-0.03	-0.03	-0.03	-0.02	-0.03	-0.01	-0.02
4800	-0.06	-0.06	-0.05	-0.06	-0.06	-0.03	-0.07	-0.06	-0.05	-0.06	-0.04
4900	-0.06	-0.05	-0.06	-0.05	-0.04	-0.05	-0.06	-0.06	-0.06	-0.04	-0.06
5000	0.02	0.03	0.03	0.02	0.03	0.03	0.03	0.02	0.01	0.04	0.02
5200	0.00	0.00	0.00	-0.01	-0.02	-0.00	-0.01	0.01	0.00	0.00	0.01
5250	0.01	0.02	0.03	0.03	0.01	0.01	0.01	0.02	0.02	0.02	0.01
5300	-0.04	-0.04	-0.05	-0.05	-0.05	-0.04	-0.06	-0.05	-0.06	-0.04	-0.05
5400	-0.05	-0.06	-0.06	-0.06	-0.05	-0.06	-0.06	-0.05	-0.06	-0.07	-0.05
5500	0.02	0.02	0.02	0.01	0.02	0.01	0.03	0.03	0.02	0.02	0.01
5600	0.03	0.04	0.04	0.03	0.03	0.04	0.04	0.04	0.03	0.03	0.03
5750	0.00	0.00	0.01	-0.01	0.01	-0.00	0.00	0.00	0.00	0.00	-0.01
5800	-0.04	-0.05	-0.05	-0.05	-0.04	-0.05	-0.04	-0.05	-0.04	-0.05	-0.06
5850	0.04	0.04	0.04	0.02	0.03	0.05	0.04	0.04	0.04	0.06	0.03

Table 1: Forward power calibration results from -5 dBm to +5 dBm. Shown is the deviation (in dB) from the reference power meter.

POWERSOURCE1 - SN: 4300

January 03, 2025

f/MHz	P _{avg} / dBm											
	6	7	8	9	10	11	12	13	14	15	16	17
600	-0.05	-0.04	-0.06	-0.04	-0.04	-0.05	-0.06	-0.04	-0.05	-0.09	-0.07	-0.10
650	-0.02	-0.03	-0.02	-0.02	-0.05	-0.04	-0.05	-0.03	-0.02	-0.01	-0.04	-0.03
750	0.07	0.07	0.07	0.05	0.08	0.06	0.06	0.07	0.05	0.08	0.05	-0.01
835	0.05	0.06	0.05	0.06	0.05	0.03	0.05	0.06	0.04	0.05	0.04	-0.01
850	0.08	0.08	0.06	0.06	0.06	0.06	0.06	0.05	0.06	0.03	0.04	-0.02
900	-0.07	-0.08	-0.07	-0.07	-0.07	-0.07	-0.07	-0.08	-0.07	-0.08	-0.07	-0.01
1300	-0.09	-0.08	-0.07	-0.08	-0.08	-0.06	-0.07	-0.08	-0.09	-0.10	-0.09	0.01
1450	0.04	0.03	0.05	0.04	0.05	0.05	0.06	0.04	0.03	0.00	0.07	-0.02
1500	-0.03	-0.04	-0.02	-0.04	-0.04	-0.04	-0.03	-0.03	-0.01	-0.03	-0.02	-0.04
1640	-0.05	-0.05	-0.04	-0.06	-0.04	-0.06	-0.05	-0.05	-0.05	-0.06	-0.01	-0.01
1750	0.06	0.05	0.06	0.05	0.05	0.06	0.07	0.06	0.05	0.04	0.03	0.00
1800	-0.09	-0.08	-0.07	-0.09	-0.05	-0.07	-0.08	-0.08	-0.12	-0.08	-0.06	-0.01
1900	-0.08	-0.06	-0.06	-0.07	-0.08	-0.07	-0.06	-0.10	-0.10	-0.06	-0.02	-0.01
1950	0.04	0.04	0.03	0.04	0.02	0.03	0.03	0.03	0.05	0.06	0.03	-0.03
2000	-0.02	-0.02	-0.01	0.00	-0.02	-0.03	0.00	-0.02	0.00	-0.03	0.01	-0.03
2100	0.04	0.03	0.02	0.05	0.04	0.03	0.04	0.04	0.02	0.01	0.02	0.02
2300	-0.08	-0.06	-0.06	-0.06	-0.07	-0.06	-0.07	-0.07	-0.06	-0.06	-0.06	-0.03
2450	0.03	0.03	0.02	0.02	0.02	0.03	0.02	0.04	0.03	-0.01	0.03	-0.02
2550	-0.07	-0.06	-0.04	-0.07	-0.07	-0.07	-0.05	-0.08	-0.09	-0.05	-0.11	0.01
2600	0.01	0.00	0.01	0.03	0.02	0.03	0.01	0.02	0.01	0.02	0.04	-0.02
3000	0.03	0.00	0.03	0.01	0.01	0.02	0.01	0.01	0.00	0.05	0.01	-0.03
3300	-0.06	-0.06	-0.07	-0.07	-0.06	-0.08	-0.07	-0.06	-0.05	-0.13	-0.06	-0.01
3400	-0.07	-0.03	-0.05	-0.05	-0.04	-0.05	-0.04	-0.06	-0.07	-0.04	-0.04	-0.03
3500	0.02	0.01	0.02	0.02	0.04	0.05	0.04	0.02	0.03	-0.02	0.04	-0.01
3600	0.01	0.03	0.03	0.03	0.04	0.03	0.02	0.03	0.01	0.00	0.04	-0.02
3700	0.01	-0.01	-0.02	-0.02	-0.03	-0.01	-0.03	-0.02	-0.03	-0.06	-0.03	0.00
3800	-0.04	-0.06	-0.04	-0.07	-0.06	-0.06	-0.06	-0.07	-0.06	-0.08	-0.05	-0.01
3900	-0.04	-0.05	-0.06	-0.04	-0.04	-0.05	-0.05	-0.06	-0.08	-0.06	-0.03	-0.02
4000	0.02	0.02	0.03	0.03	0.02	0.03	0.01	0.02	0.00	0.03	0.03	-0.02
4100	0.04	0.02	0.03	0.02	0.03	0.03	0.04	0.04	0.04	0.01	0.04	-0.02
4200	-0.01	-0.03	-0.01	-0.02	-0.01	-0.03	-0.01	-0.01	-0.03	-0.02	-0.04	0.01
4300	-0.06	-0.05	-0.05	-0.05	-0.05	-0.06	-0.05	-0.05	-0.05	-0.03	-0.09	0.00
4400	-0.04	-0.06	-0.04	-0.04	-0.05	-0.05	-0.03	-0.04	-0.05	-0.06	-0.07	-0.02
4500	0.03	0.03	0.04	0.02	0.02	0.04	0.03	0.03	0.01	-0.03	0.02	-0.01
4600	0.04	0.05	0.02	0.03	0.03	0.02	0.02	0.02	0.04	0.05	0.02	0.00
4700	-0.03	-0.03	-0.03	-0.01	-0.02	-0.01	-0.01	-0.01	0.00	-0.01	-0.02	0.00
4800	-0.05	-0.06	-0.06	-0.04	-0.06	-0.06	-0.06	-0.07	-0.05	-0.10	-0.08	-0.02
4900	-0.04	-0.04	-0.06	-0.06	-0.05	-0.06	-0.07	-0.05	-0.04	-0.03	-0.10	0.01
5000	0.03	0.03	0.01	0.02	0.01	0.03	0.02	0.01	0.02	0.03	0.03	-0.02
5200	0.00	-0.01	0.01	0.00	0.01	0.00	-0.01	0.00	-0.04	-0.03	-0.01	-0.03
5250	0.01	0.02	0.02	0.01	0.02	0.03	0.02	0.01	0.03	0.08	0.00	-0.02
5300	-0.05	-0.06	-0.05	-0.03	-0.06	-0.05	-0.05	-0.06	-0.04	-0.11	-0.05	-0.02
5400	-0.05	-0.05	-0.06	-0.06	-0.06	-0.06	-0.06	-0.04	-0.05	-0.06	-0.08	-0.01
5500	0.02	0.03	0.02	0.01	0.02	0.01	0.02	-0.02	0.02	-0.01	0.03	0.01
5600	0.05	0.02	0.04	0.05	0.04	0.03	0.05	0.05	0.05	0.00	0.00	-0.02
5750	0.00	0.01	0.00	0.02	0.00	0.00	0.01	0.00	0.01	-0.05	-0.03	-0.01
5800	-0.04	-0.05	-0.06	-0.04	-0.03	-0.07	-0.06	-0.09	-0.01	-0.08	-0.03	-0.01
5850	0.04	0.05	0.04	0.04	0.03	0.04	0.04	0.05	0.04	0.04	0.03	-0.01

Table 2: Forward power calibration results from +6 dBm to +17 dBm. Shown is the deviation (in dB) from the reference power meter.

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Appendix: Additional assessments outside the scope of SCS108

Additional EUT Data

Manufactured by	SPEAG
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ADC Adjustment Points

Forward ADC Calibration Points	-5 dB to 17 dB in 1 dB steps
Reflected ADC Calibration Points	-25 dBm, -15 dBm, -5 dBm, +5 dBm

Harmonic Distortion

Frequency Range	600 - 6000 MHz
Output Power	16 dBm
2 nd Harmonic distortion (max)	< - 20 dBc
3 rd Harmonic distortion (max)	< - 20 dBc
4 th Harmonic distortion (max)	< - 20 dBc

Frequency Measurement

Frequency Range	600 - 6000 MHz
Deviation to nominal frequency	< 1 MHz

Reflected Power Verification

Frequency Range	600 - 6000 MHz
Power levels	-20 dBm ... +5 dBm
Deviation to nominal power	< 0.5 dBm (k=2)

-End of report-