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Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

High Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	199994.45	1.62	0,00
Channel X + Input	20004.58	2.22	0.01
Channel X - Input	-20000.14	1.12	-0.01
Channel Y + Input	199994.72	1.98	0.00
Channel Y + Input	20001.22	-1.00	-0:00
Channel Y - Input	-20003.05	-1.67	0.01
Channel Z + Input	199992.64	0.19	0.00
Channel Z + Input	20003.09	0.98	0.00
Channel Z - Input	-20001.73	-0.27	0.00

Low Range	Reading (μV)	Difference (μV)	Error (%)
Channel X + Input	2001.91	0.41	0.02
Channel X + Input	202.54	0.65	0:32
Channel X - Input	-197.86	0.07	- 0.04
Channel Y + Input	2002.05	0.58	0.03
Channel Y + Input	201.27	-0.57	-0.28
Channel Y - Input	-198.23	-0.06	0.03
Channel Z + Input	2001.36	0.08	0.00
Channel Z + Input	200.09	-1,53	-0.76
Channel Z - Input	-199.85	-1.57	0.79

2. Common mode sensitivity

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

	Common mode Input Voltage (mV)	High Range Average Reading (μV)	Low Range Average Reading (μV)
Channel X	200	-5.87	-7.69
	- 200	9:12	7.79
Channel Y	200	-8.68	-9.28
	- 200	8.52	8.36
Channel Z	200	-5:36	-5.60
	- 200	3.58	3.08

3. Channel separation

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

	Input Voltage (mV)	Channel X (μV)	Channel Y (μV)	Channel Z (μV)
Channel X	200	-	4,07	-3.14
Channel Y	200	9.36	4.	4.27
Channel Z	200	10.11	7.14	ì

Certificate No: DAE4-1245_May22

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4. AD-Converter Values with inputs shorted

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

	High Range (LSB)	Low Range (LSB)
Channel X	15984	17040
Channel Y	16562	15768.
Channel Z	16035	15958

5. Input Offset Measurement

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

Input 10MO

	Average (μV)	min. Offset (μV)	max. Offset (μV)	Std. Deviation (µV)
Channel X	1.00	-0.15	1.93	0.45
Channel Y	-0.18	-1.28	0.94	0.45
Channel Z	-0.58	-2.61	0.58	0.60

6. Input Offset Current

Nominal Input circuitry offset current on all channels: <25fA

7. Input Resistance (Typical values for information)

	Zeroing (kOhm)	Measuring (MOhm)
Channel X	200	200
Channel Y	200	200
Channel Z	200	200

8. Low Battery Alarm Voltage (Typical values for information)

Typical values	Alarm Level (VDC)
Supply (+ Vcc)	+7:9
Supply (- Vcc)	-7.6

9. Power Consumption (Typical values for information)

- Over Consumption (Typicar values for information)						
Typical values	Switched off (mA)	Stand by (mA)	Transmitting (mA)			
Supply (+ Vcc)	+0.01	÷6	+14			
Supply (- Vcc)	-0.01	-8	-9			

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3. EX3DV4 - SN 7346

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





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Client Auden

Certificate No: EX3-7346_Mar22

CALIBRATION CERTIFICATE

Object EX3DV4 - SN:7346

Calibration procedure(s) QA CAL-01.v9, QA CAL-14.v6, QA CAL-23.v5, QA CAL-25.v7

Calibration procedure for dosimetric E-field probes

Calibration date: March 30, 2022

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 Calibration
Power meter NRP	SN: 104778	09-Apr-21 (No. 217-03291/03292)	Apr-22
Power sensor NRP-Z91	SN: 103244	09-Apr-21 (No. 217-03291)	Apr-22
Power sensor NRP-Z91	SN: 103245	09-Apr-21 (No. 217-03292)	Apr-22
Reference 20 dB Attenuator	SN: CC2552 (20x)	09-Apr-21 (No. 217-03343)	Apr-22
DAE4	SN: 660	13-Oct-21 (No. DAE4-660_Oct21)	Oct-22
Reference Probe ES3DV2	SN: 3013	27-Dec-21 (No. ES3-3013_Dec21)	Dec-22
Secondary Standards	ID	Check Date (in house)	Scheduled Check
Power meter E4419B	SN: GB41293874	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
Power sensor E4412A	SN: MY41498087	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
Power sensor E4412A	SN: 000110210	06-Apr-16 (in house check Jun-20)	In house check: Jun-22
RF generator HP 8648C	SN: US3642U01700	04-Aug-99 (in house check Jun-20)	In house check: Jun-22
Network Analyzer E8358A	SN: US41080477	31-Mar-14 (in house check Oct-20)	In house check: Oct-22

	Name	Function	Signature
Calibrated by:	Jeton Kastrati	Laboratory Technician	+ ce
Approved by:	Sven Kühn	Deputy Manager	S. 15
			Issued: March 31, 2022

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Glossarv:

tissue simulating liquid TSL 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 $\boldsymbol{\phi}$ rotation around probe axis

Polarization 9 9 rotation around an axis that is in the plane normal to probe axis (at measurement center),

i.e., 9 = 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
- 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 $\vartheta = 0$ (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 (no uncertainty required). 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 $f \le 800 \text{ MHz}$) 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).

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EX3DV4 - SN:7346 March 30, 2022

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7346

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	0.46	0.47	0.61	± 10.1 %
DCP (mV) ^B	101.4	106.0	106.9	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dBõV	С	D dB	VR mV	Max dev.	Max Unc ^E (k=2)
0	CW	X	0.00	0.00	1.00	0.00	143.5	± 3.0 %	± 4.7 %
		Y	0.00	0.00	1.00	1	135.3		
		Z	0.00	0.00	1.00		139.0		
10352-	Pulse Waveform (200Hz, 10%)	X	3.33	68.90	11.66	10.00	60.0	± 3.5 %	± 9.6 %
AAA		Y	4.03	70.70	12.35		60.0		
		Z	1.63	61.25	6.76		60.0		
10353-	Pulse Waveform (200Hz, 20%)	X	3.00	70.65	11.31	6.99	80.0	± 2.4 %	± 9.6 %
AAA		Y	11.51	81.32	14.72]	80.0		
		Z	0.83	60.00	5.11		80.0		
10354- P AAA	Pulse Waveform (200Hz, 40%)	X	7.41	78.85	12.51	3.98	95.0	± 2.7 %	± 9.6 %
		Y	20.00	87.62	15.51		95.0		
		Z	0.18	138.38	0.01	1	95.0		
10355- AAA	Pulse Waveform (200Hz, 60%)	X	2.27	72.13	9.52	2.22	120.0	± 1.7 %	± 9.6 %
		Y	20.00	91.58	16.29		120.0		
		Z	7.94	159.51	16.87		120.0		
10387-	QPSK Waveform, 1 MHz	X	1.47	64.88	13.82	1.00	150.0	± 4.2 %	± 9.6 %
AAA		Y	1.56	66.24	14.70	1	150.0		
		Z	0.45	61.88	11.05		150.0		
10388-	QPSK Waveform, 10 MHz	X	1.96	66.27	14.65	0.00	150.0	± 1.1 %	± 9.6 %
AAA			2.06	67.33	15.38		150.0		
		Z	1.21	64.75	13.18	1	150.0		
10396-	64-QAM Waveform, 100 kHz	X	2.63	69.51	18.25	3.01	150.0	± 1.0 %	± 9.6 %
AAA		Y	2.74	70.83	19.16		150.0		
		Z	1.70	64.72	15.99	1	150.0		
10399- AAA	64-QAM Waveform, 40 MHz	X	3.34	66.39	15.25	0.00	150.0	± 2.0 %	± 9.6 %
		Y	3.38	66.82	15.56	1	150.0		
		Z	2.70	65.72	14.74		150.0		
10414-	WLAN CCDF, 64-QAM, 40MHz	X	4.71	65.35	15.27	0.00	150.0	± 3.6 %	± 9.6 %
AAA		Y	4.70	65.54	15.41		150.0		
		Z	3.83	66.16	15.28		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%.

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^A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Pages 5 and 6).

^B Numerical linearization parameter: uncertainty not required.

^E Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value





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EX3DV4- SN:7346 March 30, 2022

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7346

Sensor Model Parameters

	C1 fF	C2 fF	α V ⁻¹	T1 ms.V ⁻²	T2 ms.V ⁻¹	T3 ms	T4 V ⁻²	T5 V ⁻¹	Т6
X	39.3	291.80	35.10	5.63	0.03	5.02	1.42	0.12	1.01
Υ	37.1	270.84	34.12	8.29	0.00	5.01	1.62	0.05	1.01
Z	9.7	69.74	33.37	4.96	0.00	4.94	0.61	0.00	1.00

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	-166.1
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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EX3DV4- SN:7346

March 30, 2022

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7346

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^C	Relative Permittivity ^F	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	10.56	10.56	10.56	0.55	0.85	± 12.0 %
835	41.5	0.90	10.12	10.12	10.12	0.42	0.96	± 12.0 %
900	41.5	0.97	10.10	10.10	10.10	0.53	0.80	± 12.0 %
1450	40.5	1.20	9.26	9.26	9.26	0.50	0.80	± 12.0 %
1750	40.1	1.37	8.83	8.83	8.83	0.34	0.86	± 12.0 %
1900	40.0	1.40	8.48	8.48	8.48	0.35	0.86	± 12.0 %
2000	40.0	1.40	8.35	8.35	8.35	0.34	0.86	± 12.0 %
2300	39.5	1.67	7.86	7.86	7.86	0.39	0.90	± 12.0 %
2450	39.2	1.80	7.63	7.63	7.63	0.41	0.90	± 12.0 %
2600	39.0	1.96	7.33	7.33	7.33	0.44	0.90	± 12.0 %
3300	38.2	2.71	7.15	7.15	7.15	0.30	1.35	± 13.1 %
3500	37.9	2.91	7.14	7.14	7.14	0.30	1.35	± 13.1 %
3700	37.7	3.12	6.85	6.85	6.85	0.30	1.35	± 13.1 %
3900	37.5	3.32	6.71	6.71	6.71	0.40	1.60	± 13.1 %
4100	37.2	3.53	6.58	6.58	6.58	0.40	1.60	± 13.1 %
4200	37.1	3.63	6.30	6.30	6.30	0.40	1.70	± 13.1 %
4400	36.9	3.84	6.24	6.24	6.24	0.40	1.70	± 13.1 %
4600	36.7	4.04	6.11	6.11	6.11	0.40	1.70	± 13.1 %
4800	36.4	4.25	6.08	6.08	6.08	0.40	1.80	± 13.1 %
4950	36.3	4.40	5.84	5.84	5.84	0.40	1.80	± 13.1 %
5200	36.0	4.66	5.25	5.25	5.25	0.40	1.80	± 13.1 %
5300	35.9	4.76	5.12	5.12	5.12	0.40	1.80	± 13.1 %
5500	35.6	4.96	4.85	4.85	4.85	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.70	4.70	4.70	0.40	1.80	± 13.1 %
5800	35.3	5.27	4.75	4.75	4.75	0.40	1.80	± 13.1 %

^C Frequency validity above 300 MHz of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band. Frequency validity below 300 MHz is ± 10, 25, 40, 50 and 70 MHz for ConvF assessments at 30, 64, 128, 150 and 220 MHz respectively. Validity of ConvF assessed at 6 MHz is 4-9 MHz, and ConvF assessed at 13 MHz is 9-19 MHz. Above 5 GHz frequency validity can be extended to ± 110 MHz.

FAI frequencies below 3 GHz, the validity of tissue parameters (ε and σ) can be relaxed to ± 10% if liquid compensation formula is applied to

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measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (ϵ and σ) is restricted to \pm 5%. The uncertainty is the RSS of

the ConvF uncertainty for indicated target tissue parameters.

^a Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than ± 1% for frequencies below 3 GHz and below ± 2% for frequencies between 3-6 GHz at any distance larger than half the probe tip diameter from the boundary.



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EX3DV4- SN:7346

March 30, 2022

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7346

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) °	Relative Permittivity ^F	Conductivity (S/m) F	ConvF X	ConvF Y	ConvF Z	Alpha ^G	Depth [©] (mm)	Unc (k=2)
6500	34.5	6.07	5.30	5.30	5.30	0.20	2.50	± 18.6 %

⁶ Frequency validity above 6GHz is ± 700 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

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The frequencies 8-10 GHz, the validity of tissue parameters (ϵ and σ) can be relaxed to \pm 10% if liquid compensation formula is applied to measured SAR values. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

Alpha/Depth are determined during calibration. SPEAG warrants that the remaining deviation due to the boundary effect after compensation is always less than \pm 1% for frequencies below 3 GHz; below \pm 2% for frequencies between 3-6 GHz; and below \pm 4% for frequencies between 6-10 GHz at any distance larger than half the probe tip diameter from the boundary.





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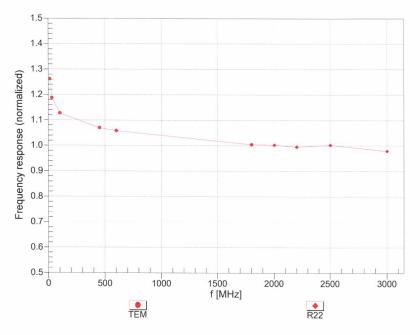
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Frequency Response of E-Field

(TEM-Cell:ifi110 EXX, Waveguide: R22)



Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

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