

Appendix B - DAE & Probe Calibration Certificate

Accredited by the Swiss Accredit the Swiss Accreditation Servic Multilateral Agreement for the r	e is one of the signatories	s to the EA	n No.: SCS 0108
Client SGS (Auden)			o: DAE4-1336_Aug21
CALIBRATION	CERTIFICATE		
Object	DAE4 - SD 000 D	004 BM - SN: 1336	
Calibration procedure(s)	QA CAL-06.v30 Calibration procee	dure for the data acquisition elec	stronics (DAE)
Calibration date:	August 20, 2021		
The measurements and the unce	ertainties with confidence pro	nal standards, which realize the physical un obability are given on the following pages ar y facility: environment temperature (22 ± 3)°(d are part of the certificate.
The measurements and the unce All calibrations have been condu	ertainties with confidence pro	obability are given on the following pages ar	d are part of the certificate.
The measurements and the unce All calibrations have been condu Calibration Equipment used (M& Primary Standards	ertainties with confidence pro- incted in the closed laboratory TE critical for calibration)	obability are given on the following pages ar facility: environment temperature (22 ± 3)°(Cal Date (Certificate No.)	d are part of the certificate. C and humidity < 70%. Scheduled Calibration
The measurements and the unce All calibrations have been condu Calibration Equipment used (M& Primary Standards	ertainties with confidence pro- incted in the closed laboratory TE critical for calibration)	obability are given on the following pages ar y facility: environment temperature $(22 \pm 3)^{\circ}$	nd are part of the certificate. C and humidity < 70%.
The measurements and the unor All calibrations have been condu Calibration Equipment used (M& Primary Standards Keithley Muttimeter Type 2001 Secondary Standards	trainties with confidence provided in the closed laboratory TE critical for calibration) D # SN: 0810278 D #	bability are given on the following pages ar y facility: environment temperature (22 ± 3)°(Cal Date (Certificate No.) 07-Sep-20 (No:28647) Check Date (in house)	d are part of the certificate. C and humidity < 70%. Scheduled Calibration
The measurements and the unce All calibrations have been condu Calibration Equipment used (M& Primary Standards Keithley Multimeter Type 2001 Secondary Standards Auto DAE Calibration Unit	tertainties with confidence provided in the closed laboratory TE critical for calibration) D # SN: 0810278 ID # SE UWS 053 AA 1001	obability are given on the following pages ar y facility: environment temperature (22 ± 3)°(Cal Date (Certificate No.) 07-Sep-20 (No:28647) Check Date (in house)	d are part of the certificate. C and humidity < 70%. Scheduled Calibration Sep-21
The measurements and the unce	ertainties with confidence pro- cted in the closed laboratory TE critical for calibration) ID # SN: 0810278 ID # SE UWS 053 AA 1001 SE UMS 006 AA 1002	obability are given on the following pages ar y facility: environment temperature (22 ± 3)*(<u>Cal Date (Certificate No.)</u> 07-Sep-20 (No:28647) <u>Check Date (in house)</u> 07-Jan-21 (in house check) 07-Jan-21 (in house check)	d are part of the certificate. C and humidity < 70%. Scheduled Calibration Sep-21 Scheduled Check In house check: Jan-22 In house check: Jan-22
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Schweizerischer Kalibrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service

Accreditation No.: SCS 0108

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

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 following parameters as documented in the Appendix contain technical information as a result from the performance test and require no uncertainty.
 - DC Voltage Measurement Linearity: Verification of the Linearity at +10% and -10% of the nominal calibration voltage. Influence of offset voltage is included in this measurement.
 - Common mode sensitivity: Influence of a positive or negative common mode voltage on the differential measurement.
 - Channel separation: Influence of a voltage on the neighbor channels not subject to an input voltage.
 - ۰ AD Converter Values with inputs shorted: Values on the internal AD converter corresponding to zero input voltage
 - Input Offset Measurement. Output voltage and statistical results over a large number of zero voltage measurements.
 - Input Offset Current: Typical value for information; Maximum channel input offset current, not considering the input resistance.
 - Input resistance: Typical value for information: DAE input resistance at the connector, during internal auto-zeroing and during measurement.
 - Low Battery Alarm Voltage: Typical value for information. Below this voltage, a battery alarm signal is generated.
 - Power consumption: Typical value for information. Supply currents in various operating modes.

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DC Voltage Measurement

High Range:	1LSB =	6.1µV ,	full range =	-100+300 mV
Low Range:	1LSB =	61nV .	full range =	-1+3mV

Calibration Factors	X	Y	Z
High Range	403.395 ± 0.02% (k=2)	403.699 ± 0.02% (k=2)	403.181 ± 0.02% (k=2)
Low Range	3.95140 ± 1.50% (k=2)	3.98832 ± 1.50% (k=2)	3.99675 ± 1.50% (k=2)

Connector Angle

Connector Angle to be used in DASY system	337.0°±1°
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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	199994.87	-0.57	-0.00
Channel X + Input	20003.04	1.02	0.01
Channel X - Input	-19999.60	2.19	-0.01
Channel Y + Input	199994.43	-0.97	-0.00
Channel Y + Input	20000.24	-1.68	-0.01
Channel Y - Input	-20003.86	-1.89	0.01
Channel Z + Input	199996.97	1.15	0.00
Channel Z + Input	19999.88	-1.94	-0.01
Channel Z - Input	-20003.19	-1.35	0.01

Low Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	2001.13	0.09	0.00
Channel X + Input	201.77	0.46	0.23
Channel X - Input	-198.03	0.61	-0.31
Channel Y + Input	2001.20	0.17	0.01
Channel Y + Input	200.67	-0.66	-0.33
Channel Y - Input	-199.32	-0.62	0.31
Channel Z + Input	2001.02	0.19	0.01
Channel Z + Input	200.18	-0.91	-0.45
Channel Z - Input	-199.41	-0.56	0.28

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	6.13	5.08
-	- 200	-3.78	-5.13
Channel Y	200	-4.25	-4.17
	- 200	1.79	1.85
Channel Z	200	22.60	22.64
	- 200	-24.87	-24.70

3. Channel separation

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

1.1.1	Input Voltage (mV)	Channel X (µV)	Channel Y (µV)	Channel Z (µV)
Channel X	200		5.23	-0.98
Channel Y	200	9.11	4	6.48
Channel Z	200	8.79	6.41	

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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	15667	16718
Channel Y	15908	15798
Channel Z	15845	14611

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec Input 10MQ

	Average (µV)	min. Offset (µV)	max. Offset (μV)	Std. Deviation (µV)
Channel X	1.60	0.77	2.53	0.32
Channel Y	-0,38	-1.24	0.77	0.34
Channel Z	-0.59	-1.74	0.43	0.38

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)

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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ccredited by the Swiss Accredite he Swiss Accreditation Servi fultilateral Agreement for the	ice is one of the signatories	to the EA	reditation No.: SCS 0108
Client SGS-TW (Aud	len)	Certificate No:	EX3-7509_Apr21
CALIBRATION	CERTIFICATE		
Dbject	EX3DV4 - SN:750	9	
Calibration procedure(s)		A CAL-14.v6, QA CAL-23.v5, QA lure for dosimetric E-field probes	CAL-25.v7
Calibration date:	April 26, 2021		
		facility: environment temperature (22 ± 3)"C a	and multiluity ~ 7070
Calibration Equipment used (M		Cal Date (Certificate No.)	Scheduled Calibration
Calibration Equipment used (M Primary Standards	&TE critical for calibration)		
Calibration Equipment used (M Primary Standards Power meter NRP	&TE critical for calibration)	Cal Date (Certificate No.)	Scheduled Calibration
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91	&TE critical for calibration)	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292)	Scheduled Calibration Apr-22
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91	&TE critical for calibration) ID SN: 104778 SN: 103244	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291)	Scheduled Calibration Apr-22 Apr-22
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4	&TE entical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: C02552 (20x) SN: 660	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-660_Dec20)	Scheduled Calibration Apr-22 Apr-22 Apr-22
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator DAE4	BTE entireal for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: CC2552 (20x)	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343)	Scheduled Calibration Apr-22 Apr-22 Apr-22 Apr-22 Apr-22
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2	&TE entical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: C02552 (20x) SN: 660	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-660_Dec20)	Scheduled Calibration Apr-22 Apr-22 Apr-22 Apr-22 Dec-21
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards	ID IN: 104778 SN: 103244 SN: 103245 SN: C2552 (20x) SN: 3013	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-660_Dec20) 30-Dec-20 (No. ES3-3013_Dec20)	Scheduled Calibration Apr-22 Apr-22 Apr-22 Apr-22 Dec-21 Dec-21 Dec-21
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E4419B Power sensor E4412A	&TE entical for calibration) ID SN: 104778 SN: 103245 SN: 103245 SN: 660 SN: 3013 ID SN: GB41293874 SN: MY41498087	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-660_Dec20) 30-Dec-20 (No. ES3-3013_Dec20) Check Date (in house)	Scheduled Calibration Apr-22 Apr-22 Apr-22 Apr-22 Dec-21 Dec-21 Scheduled Check
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A	&TE entical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: 0C2552 (20x) SN: 660 SN: 3013 ID SN: GB41293874 SN: WY41498087 SN: 000110210	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-660_Dec20) 30-Dec-20 (No. E\$3-3013_Dec20) Check Date (in house) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20)	Scheduled Calibration Apr-22 Apr-22 Apr-22 Apr-22 Dec-21 Dec-21 Dec-21 Scheduled Check In house check: Jun-22
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A RF generator HP 8648C	kTE entical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: C2552 (20x) SN: 860 SN: 3013 ID SN: GB41293874 SN: 000110210 SN: US3642U01700	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-660_Dec20) 30-Dec-20 (No. DAE3-050_Dec20) Check Date (in house) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 04-Aug-99 (in house check Jun-20)	Scheduled Calibration Apr-22 Apr-22 Apr-22 Dec-21 Dec-21 Dec-21 Scheduled Check In house check: Jun-22 In house check: Jun-22 In house check: Jun-22 In house check: Jun-22
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A RF generator HP 8648C	&TE entical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: 0C2552 (20x) SN: 660 SN: 3013 ID SN: GB41293874 SN: WY41498087 SN: 000110210	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-660_Dec20) 30-Dec-20 (No. E\$3-3013_Dec20) Check Date (in house) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20)	Scheduled Calibration Apr-22 Apr-22 Apr-22 Dec-21 Dec-21 Dec-21 Scheduled Check In house check: Jun-22 In house check: Jun-22 In house check: Jun-22
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E44198 Power sensor E4412A RF generator HP 8648C Network Analyzer E8358A	kTE entical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: C2552 (20x) SN: 860 SN: 3013 ID SN: GB41293874 SN: 000110210 SN: US3642U01700	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-660_Dec20) 30-Dec-20 (No. DAE3-050_Dec20) Check Date (in house) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 04-Aug-99 (in house check Jun-20)	Scheduled Calibration Apr-22 Apr-22 Apr-22 Dec-21 Dec-21 Dec-21 Scheduled Check In house check: Jun-22 In house check: Jun-22 In house check: Jun-22 In house check: Jun-22
Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power meter E4419B Power sensor E4412A Power sensor E4412A RF generator HP 8648C	&TE entical for calibration) ID SN: 104778 SN: 103245 SN: 103245 SN: 660 SN: 3013 ID SN: GB41293874 SN: 000110210 SN: US3642U01700 SN: US41080477	Cal Date (Certificate No.) 09-Apr-21 (No. 217-03291/03292) 09-Apr-21 (No. 217-03291) 09-Apr-21 (No. 217-03292) 09-Apr-21 (No. 217-03343) 23-Dec-20 (No. DAE4-660_Dec20) 30-Dec-20 (No. ES3-3013_Dec20) Check Date (in house) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 06-Apr-16 (in house check Jun-20) 04-Aug-99 (in house check Jun-20) 04-Aug-99 (in house check Jun-20) 31-Mar-14 (in house check Oct-20)	Scheduled Calibration Apr-22 Apr-22 Apr-22 Dec-21 Dec-21 Scheduled Check In house check: Jun-22 In house check: Jun-22
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Glossary:

Giocoury.	
TSL	tissue simulating liquid
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	φ 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) IEEE Std 1528-2013, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", June 2013 IEC 62209-1, ", "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from hand-
- b)
- held and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016 IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices c)
- used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)", March 2010
- d) 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 9 = 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(I)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 \leq 800 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:7509

April 26, 2021

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7509

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm $(\mu V/(V/m)^2)^A$	0.59	0.63	0.69	± 10.1 %
DCP (mV) ^B	105,0	104.2	103.1	

Modulation Calibration Parameters

UID	Communication System Name	11	AdB	B dBõV	c	D dB	VR mV	Unc ² (k=2)
0	CW	X	0.0	0.0	1.0	0.00	139.5	±3.3 %
		Y	0,0	0.0	1.0		140.4	
		Z	0.0	0.0	1.0		129.2	

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%.

⁴ The uncertainlies of Norm X.Y.2 do not affect the E²-field uncertainty inside TSL (see Page 5) ⁸ Numerical linearization parameter; uncertainty not required. ⁶ Uncertainty is determined using the max, deviation from linear response applying rectangular distribution and is expressed for the square of the ⁶ 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:7509

April 26, 2021

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7509

Other Probe Parameters Sensor Arrangement Triangular Connector Angle (°) -67.4 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:7509

April 26, 2021

DASY/EASY - Parameters of Probe: EX3DV4 - SN:7509

Calibration Parameter Determined in Head Tissue Simulating Media

f (MHz) ^c	Relative Permittivity	Conductivity (S/m) ^F	ConvF X	ConvF Y	ConvF Z	Alpha®	Depth ^G (mm)	Unc (k=2)
750	41.9	0.89	10.29	10.29	10.29	0.42	0.96	± 12.0 %
835	41.5	0.90	9.97	9.97	9.97	0.48	0.85	± 12.0 %
900	41.5	0.97	9.78	9.78	9,78	0.31	1.11	± 12.0 %
1750	40.1	1.37	9.11	9.11	9.11	0.32	0.86	± 12.0 %
1900	40.0	1.40	8.74	8.74	8.74	0.38	0.86	± 12.0 %
2000	40.0	1.40	8.64	8.64	8.64	0,34	0.86	± 12.0 %
2300	39.5	1.67	8.31	8.31	8.31	0.28	0.90	± 12.0 %
2450	39.2	1.80	8.18	8.18	8.18	0.33	0.90	± 12.0 %
2600	39.0	1.96	7,97	7.97	7.97	0.38	0.90	± 12.0 %
3300	38.2	2.71	7.40	7.40	7.40	0.30	1.35	± 13.1 %
3500	37,9	2.91	7.26	7.26	7.26	0.35	1.35	± 13.19
3700	37.7	3.12	7.10	7_10	7.10	0.35	1.35	± 13.1 %
3900	37.5	3.32	6.85	6.85	6.85	0.40	1,60	± 13,1 %
4100	37.2	3.53	6.70	6.70	6.70	0.40	1.60	± 13.1.9
4200	37.1	3.63	6.60	6.60	6.60	0.40	1.60	± 13.1 %
4400	36.9	3.84	6.45	6.45	6.45	0.40	1.60	± 13.1 9
4600	36.7	4.04	6.39	6.39	6.39	0.40	1.60	± 13.1 %
4800	36.4	4.25	6.42	6.42	6.42	0.45	1.80	± 13.1 %
4950	36.3	4.40	6,21	6.21	6.21	0.40	1.80	± 13.1 %
5200	36.0	4.66	5.70	5.70	5.70	0.40	1.80	± 13.1 %
5300	35.9	4.76	5.45	5.45	5.45	0.40	1.80	± 13.1 %
5600	35.5	5.07	5.10	5.10	5.10	0.40	1.80	± 13.1 %
5800	35.3	5.27	5.20	5.20	5.20	0.40	1.80	± 13.1 %

⁶ 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 ± 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 ± 10, 24z, the validity of losue parameters (s and n) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of lissue parameters (s, and n) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters. ^(A) alpha/Depth are datermined 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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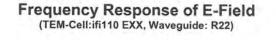
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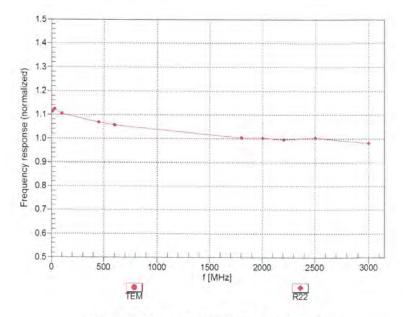


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Uncertainty of Frequency Response of E-field: ± 6.3% (k=2)

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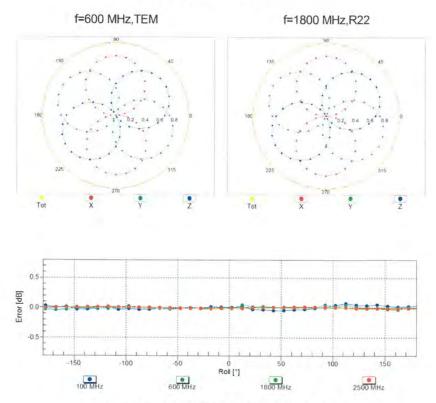
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Receiving Pattern (ϕ), $\vartheta = 0^{\circ}$

Uncertainty of Axial Isotropy Assessment: ± 0.5% (k=2)

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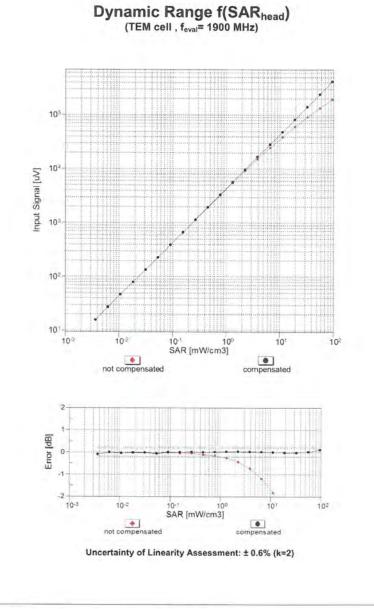
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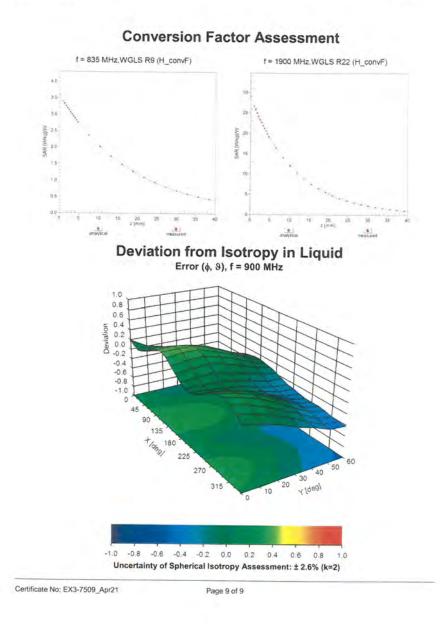
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