

Appendix B - DAE & Probe Calibration Certificate

Calibration Laborato Schmid & Partner Engineering AG Zeughausstrasse 43, 8004 Zuri			 S Schweizerischer Kallbrierdienst Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service
Accredited by the Swiss Accredi The Swiss Accreditation Servi Multilateral Agreement for the	ce is one of the signatorie	s to the EA	ation No.: SCS 0108
Client SGS-TW (Aud			e No: DAE4-877_Mar20
CALIBRATION	CERTIFICATI		
Object	DAE4 - SD 000 E	004 BN - SN: 877	
Calibration procedure(s)	QA CAL-06.v30 Calibration proce	dure for the data acquisition e	lectronics (DAE)
Calibration date:	March 17, 2020		
The measurements and the unce	artainties with confidence pri	anal standards, which realize the physical obability are given on the following pages	and are part of the certificate.
All calibrations have been condu Calibration Equipment used (M&	rtainties with contidence protected in the closed laboratory	obability are given on the following pages / facility: environment temperature (22 ± :	and are part of the certificate.
All calibrations have been condu Calibration Equipment used (M& Primary Standards	rtainties with contidence pro- cted in the closed laboratory TE critical for calibration)	obability are given on the following pages / facility: environment temperature (22 ± : Cal Date (Certificate No.)	and are part of the certificate. 3)°C and hurnidity < 70%. Scheduled Calibration
All calibrations have been condu Calibration Equipment used (M&' Primary Standards Keithley Multimeter Type 2001	TE critical for calibration)	obability are given on the following pages / facility: environment temperature (22 ± :	; and are part of the certificate. 3)°C and humidity < 70%.
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All calibrations have been condu Calibration Equipment used (M& Primary Standards Seithley Multimeter Type 2001 Secondary Standards Muto DAC Calibration Unit	TE critical for calibration)	obability are given on the following pages / facility: environment temperature (22 ± : Cal Date (Certificate No.) 03-Sep-19 (No:25949) Check Date (in house) 03-Jan 20 (in house check)	and are part of the certificate. 3)°C and humidity < 70%. Scheduled Calibration Sep-20
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Service suisse d'étalonnage Servizio svizzero di taratura Swiss Calibration Service

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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

Connector angle

data acquisition electronics 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
 - 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: Low Range:	1LSB = 6.1μV , 1LSB = 61nV ,	full range = -100+ full range = -1	
	rameters: Auto Zero Time:	3 sec; Measuring time: 3 se	90
Calibration Factors	x	Y	z
Calibration Factors High Range	X 405.010 ± 0.02% (k=2)	Y 404.578 ± 0.02% (k=2)	Z 405.015 ± 0.02% (k=2)

Connector Angle

Connector Angle to be used in DASY system	324.5°±1°
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High Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	199994.99	1.01	0.00
Channel X + Input	20004.59	3.10	0.02
Channel X - Input	-19997.61	4.07	-0.02
Channel Y + Input	199995.27	1.92	0.00
Channel Y + Input	20003.49	2.17	0.01
Channel Y - Input	-20001.56	0.25	-0.00
Channel Z + Input	199996.44	2.69	0.00
Channel Z + Input	20003.98	2.57	0.01
Channel Z - Input	-20002.02	-0.26	0.00
Low Range	Reading (µV)	Difference (µV)	Error (%)
Channel X + Input	2000.98	-0.02	-0.00
Channel X + Input	201.04	-0.39	-0.19
Channel X - Input	-198.61	-0.21	0.11
Channel Y + Input	2001.45	0.50	0.02
Channel Y + Input	200.09	-1.21	-0.60
Channel Y - Input	-199.84	-1.30	0.65
Channel Z + Input	2001.94	0.99	0.05
Channel Z + Input	199.79	-1.52	-0.76

Appendix (Additional assessments outside the scope of SCS0108)

1. DC Voltage Linearity

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	15.06	13.17
	- 200	-11.97	-13.80
Channel Y	200	-19.28	-19.62
	- 200	18.28	17.70
Channel Z	200	21.01	20.77
	- 200	-22.03	-22.76

3. Channel separation

	Input Voltage (mV)	Channel X (µV)	Channel Y (µV)	Channel Z (µV)
Channel X	200	-	0.57	-2.27
Channel Y	200	7.16		2.07
Channel Z	200	9.34	3.85	

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4. AD-Converter Values with inputs shorted

	High Range (LSB)	Low Range (LSB)
Channel X	16005	16461
Channel Y	15882	17075
Channel Z	15740	17303

5. Input Offset Measurement

DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec Input $10M\Omega$

nput romae	Average (µV)	min. Offset (µV)	max. Offset (µV)	Std. Deviation (µV)
Channel X	1.20	-0.28	3.03	0.57
Channel Y	0.18	-1.82	1.39	0.56
Channel Z	0.60	-1.35	2.37	0.80

6. Input Offset Current

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

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

ypical values	Alarm Level (VDC)
Supply (+ Vcc)	+7.5
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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ultilateral Agreement for the lient SGS-TW (Aut	rice is one of the signatories		
lient SGS-TW (Au			
	den)	Certificate No:	EX3-7509_Mar20
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ALIBRATION	CERTIFICATE		
Object	EX3DV4 - SN:750	9	
Calibration procedure(s)		A CAL-14.v5, QA CAL-23.v5, QA ure for dosimetric E-field probes	CAL-25.v7
Calibration date:	March 25, 2020		
	ducted in the closed laboratory	facility: environment temperature $(22 \pm 3)^{\circ}$ C a	and humidity < 70%.
All calibrations have been con-		facility: environment temperature (22 \pm 3)*C a	and humidity < 70%.
All calibrations have been con- Calibration Equipment used (N		facility: environment temperature (22 ± 3)*C a	and humidity < 70%.
All calibrations have been con- Calibration Equipment used (M Primary Standards	A&TE critical for calibration)		
III calibrations have been con- Calibration Equipment used (k Primary Standards Prower meter NRP Power sensor NRP-Z91	A&TE critical for calibration)	Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02882)	Scheduled Calibration Apr-20 Apr-20
All calibrations have been conv Calibration Equipment used (M Primary Standards Power meter NRP Power sensor NRP-291 Power sensor NRP-291	A&TE critical for calibration)	Cal Date (Certificate No.) 03-Apr-19 (No. 217-02882/02893) 03-Apr-19 (No. 217-02882) 03-Apr-19 (No. 217-02882)	Scheduled Calibration Apr-20 Apr-20 Apr-20
All calibrations have been con- Calibration Equipment used (k Primary Standards Power meter NRP Power sensor NRP-Z91 Power sensor NRP-Z91 Reference 20 dB Attenuator	A&TE critical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: 55277 (20x)	Cal Date (Certificate No.) 03-Apr-19 (No. 217-0289202893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02894)	Scheduled Calibration Apr-20 Apr-20 Apr-20 Apr-20 Apr-20
All calibrations have been con Calibration Equipment used (M Primary Standards Power meters NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Alternator DAE4	A&TE critical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: 55277 (20x) SN: 560	Cal Date (Certificate No.) 03-Apr-19 (No. 217-02832/02893) 03-Apr-19 (No. 217-02889) 03-Apr-19 (No. 217-02893) 04-Apr-19 (No. 217-02894) 27-Dec-19 (No. DAE4-660, Dec13)	Scheduled Calibration Apr-20 Apr-20 Apr-20 Apr-20 Dec-20
All calibrations have been con Calibration Equipment used (M Primary Standards Power meters NRP Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Alternator DAE4	A&TE critical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: 55277 (20x)	Cal Date (Certificate No.) 03-Apr-19 (No. 217-0289202893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02894)	Scheduled Calibration Apr-20 Apr-20 Apr-20 Apr-20 Apr-20
All calibrations have been con- Calibration Equipment used (M Primary Standards Power meter NRP Power sansor NRP-291 Power sansor NRP-291 Power sansor NRP-291 Power cansor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2	A&TE critical for calibration) ID SN: 104778 SN: 103244 SN: 103245 SN: 55277 (20x) SN: 560	Cal Date (Certificate No.) 03-Apr-19 (No. 217-02832/02893) 03-Apr-19 (No. 217-02889) 03-Apr-19 (No. 217-02893) 04-Apr-19 (No. 217-02894) 27-Dec-19 (No. DAE4-660, Dec13)	Scheduled Calibration Apr-20 Apr-20 Apr-20 Apr-20 Dec-20
All calibrations have been con- calibration Equipment used (k Primary Standards Power meter NRP Power smach 7NRP-291 Power smach 7NRP-291 Power smach 7NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards	A&TE critical for calibration) ID SN: 103244 SN: 103245 SN: 5027 (20x) SN: 560 SN: 5013	Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02893) 04-Apr-19 (No. 217-02894) 27-Dec-19 (No. DAE4-860, Dac19) 31-Dec-19 (No. ES3-3013 Dec19)	Scheduled Calibration Apr-20 Apr-20 Apr-20 Apr-20 Dec-20 Dec-20 Dec-20
All calibrations have been con- Calibration Equipment used (M Primary Standards Power mater NRP- Power sansor NRP-291 Power sansor NRP-291 Power sansor NRP-291 Reference 20 dB Attenuator DAE4 Reference 20 dB Attenuator DAE4 Secondary Standards Secondary Standards	ID ID SN: 104778 SN: 20244 SN: 103246 SN: 503246 SN: 503246 SN: 560 SN: 3013 ID	Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02893) 04-Apr-19 (No. 217-02894) 27-Dec-19 (No. DE4-660. Dec19) 31-Dec-19 (No. ES3-3013. Dec19) Check Date (in house)	Scheduled Calibration Apr-20 Apr-20 Apr-20 Apr-20 Dec-20 Dec-20 Scheduled Check
All calibrations have been con Calibration Equipment used (M Primary Standards Power meter NRP- Power sensor NRP-291 Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Alternator DAE4 Reference Probe ES30V2 Secondary Standards Power sensor E412A	ID ID SN: 104778 SN: 10244 SN: 103244 SN: 103245 SN: 95277 (20u) SN: 960 SN: 3013 ID ID SN: 0541293874	Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 04-Apr-19 (No. 217-02893) 27-Dec-19 (No. 217-02894) 27-Dec-19 (No. 257-02894) 31-Dec-19 (No. 253-013 Dec19) 31-Dec-19 (No. 253-013 Dec19) Check Date (in house) 06-Apr-16 (in house)	Scheduled Calibration Apr-20 Apr-20 Apr-20 Dec-20 Dec-20 Dec-20 Scheduled Check In house check: Jun-20
All calibrations have been con- Calibration Equipment used (N Primary Standards Power meter NRP Power sonsor NRP-291 Power sonsor NRP-291 Reference Probe ES3DV2 Secondary Standards Power meter E4198 Power sonsor E412A Power sonsor E412A	ID ID ID SN: 103246 SN: 103244 SN: 103246 SN: 50274 (20x) SN: 660 SN: 3013 ID ID SN: 6641293874 SN: MY41498087 SN: 000110210 SN: 00110210 SN: 00110210	Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02893) 04-Apr-19 (No. 217-02894) 27-Dec-19 (No. DAE4-660, Dec19) 31-Dec-19 (No. DAE4-660, Dec19) 31-Dec-19 (No. DAE4-660, Dec19) 06-Apr-16 (in house check-Jun-18) 06-Apr-16 (in house check-Jun-18) 06-Apr-16 (in house check-Jun-18) 06-Apr-16 (in house check-Jun-18)	Scheduled Calibration Apr-20 Apr-20 Apr-20 Dec-20 Dec-20 Dec-20 Scheduled Check In house check: Jun-20 In house check: Jun-20 In house check: Jun-20
All calibrations have been con- Calibration Equipment used (N Primary Standards Power meter NRP Power sonsor NRP-291 Power sonsor NRP-291 Reference Probe ES3DV2 Secondary Standards Power meter E4198 Power sonsor E412A Power sonsor E412A	ID ID SN: 104778 SN: 10244 SN: 103244 SN: 103247 SN: 55277 (20x) SN: 660 SN: 3013 ID SN: GB41293874 SN: MY41406067 SN: N:0210210 SN: 000110210	Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 04-Apr-19 (No. 217-02893) 27-Dec-19 (No. 217-02894) 31-Dec-19 (No. 257-02894) 31-Dec-19 (No. ES3-3013 Dec19) Check Date (in house) 06-Apr-16 (in house check Jun-18) 06-Apr-16 (in house check Jun-18) 06-Apr-16 (in house check Jun-18)	Scheduled Calibration Apr 20 Apr 20 Apr 20 Dec-20 Dec-20 Scheduled Check In house check: Jun-20 In house check: Jun-20 In house check: Jun-20
All calibrations have been con Calibration Equipment used (M Primary Standards Power meter NRP- Power sensor NRP-291 Power sensor NRP-291 Power sensor NRP-291 Reference Probe ES30V2 Secondary Standards Power meter E4198 Power sensor E44198 Power sensor E4412A Power sensor E4412A	ID ID ID SN: 103246 SN: 103244 SN: 103246 SN: 50274 (20x) SN: 660 SN: 3013 ID ID SN: 6641293874 SN: MY41498087 SN: 000110210 SN: 00110210 SN: 00110210	Cal Date (Certificate No.) 03-Apr-19 (No. 217-02892/02893) 03-Apr-19 (No. 217-02892) 03-Apr-19 (No. 217-02893) 04-Apr-19 (No. 217-02894) 27-Dec-19 (No. DAE4-660, Dec19) 31-Dec-19 (No. DAE4-660, Dec19) 31-Dec-19 (No. DAE4-660, Dec19) 06-Apr-16 (in house check-Jun-18) 06-Apr-16 (in house check-Jun-18) 06-Apr-16 (in house check-Jun-18) 06-Apr-16 (in house check-Jun-18)	Scheduled Calibration Apr-20 Apr-20 Apr-20 Dec-20 Dec-20 Dec-20 Scheduled Check In house check: Jun-20 In house check: Jun-20
Calibration Equipment used (N Primary Standards Power sensor NRP-291 Power sensor NRP-291 Power sensor NRP-291 Reference 20 dB Attenuator DAE4 Reference Probe ES3DV2 Secondary Standards Power sensor E44198 Power sensor E4419A Power sensor E4412A Ref generator IM 8646C	ID ID ID SN: 104778 SN: 103244 SN: 103244 SN: 03245 SN: 9527 (204) SN: 680 SN: 9617 (204) SN: 0617230374 SN: 06110210 SN: US41080477 SN: US41080477	Cal Date (Certificate No.) 03-Apr-19 (No. 217-0289202893) 03-Apr-19 (No. 217-028920) 03-Apr-19 (No. 217-02893) 04-Apr-19 (No. 217-02894) 27-Dec-19 (No. 217-02894) 27-Dec-19 (No. 217-02894) 27-Dec-19 (No. 217-02894) 04-Apr-19 (In house check Jun-18) 06-Apr-16 (In house check Jun-18) 06-Apr-16 (In house check Jun-18) 06-Apr-16 (In house check Jun-18) 06-Apr-16 (In house check Jun-18) 31-Mar-14 (In house check Jun-18)	Scheduled Calibration Apr-20 Apr-20 Apr-20 Dec-20 Dec-20 Dec-20 Scheduled Check In house check: Jun-20 In house check: Jun-20 In house check: Jun-20

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Glossary:	
TSL	tissue simulating liquid
NORMx.v.z	sensitivity in free space
ConvF	sensitivity in TSL / NORMx.v.z
DCP	diode compression point
CF	crest factor (1/duty_cycle) of the RF signal
A. B. C. D	modulation dependent linearization parameters
Polarization o	@ 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

Connector Angle Introduction Used in DAST system to any proce sensor A to the root controllate 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
 b) IEC 62209-1, "Measurement procedure for the assessment of Specific Absorption Rate (SAR) from handheld and body-mounted devices used next to the ear (frequency range of 300 MHz to 6 GHz)", July 2016
 c) IEC 62209-2, "Procedure to determine the Specific Absorption Rate (SAR) for wireless communication devices used next to the ear (frequency range of 300 MHz to 6 GHz)", March 2010
 d) KDB 865664, "SAR Measurement Requirements for 100 MHz to 6 GHz"

Methods Applied and Interpretation of Parameters:

- ods Applied and Interpretation of Parameters: NORMx, yz: Assessed for E-field polarization 9 = 0 (f \leq 900 MHz in TEM-cell; f > 1800 MHz: R22 waveguide). NORMx, yz are only intermediate values, i.e., the uncertainties of NORMx, yz does not affect the E³-field uncertainty inside TSL (see below CorwF). NORM(0, yz: = NORMx, yz: 1 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 CorwF. DCPx; yz: 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
- ÷
- PAR: PAR is the Peak to Average Ratio that is not calibrated but cetermined based on the signatication characteristics Axy,z, Bxy,z, Cxy,Z, Dxy,Z, IV, X, X, 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 Bounday Effect Parameters: Assessed in Reinhantom using E-field (or Temperature Transfer Standard for f < 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 correspondit CoNF is used in DASY4 version 4.4 and higher which allows extending the validity form \pm 50 MHz to \pm 100 MHz.
- MHz. Spherical isotropy (3D deviation from isotropy): In a field of low gradients realized using a flat phantom
- .
- Spretrainsouropy (30 behavior) non-souropy). In a line of low gradients realized using a list plantom exposed by a patch anienna. 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). ٠

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EX3DV4 - SN:7509

March 25, 2020

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

	and the second second	Sensor X	Sensor Y		Sensor Z 0.55		Unc (k=2) ± 10.1 %		
Norm $(\mu V/(V/m)^2)^A$		0.51		0.55					
DCP (n	nV) ^è	97.8		99.8		94.6			
	ation Results for		ponse	P		D	VB	Max	line
	Communication S		ponse A dB	B dBõV	c	D dB	VR mV	Max dev.	Unc ^E (k=2)
UID			A		C 1.0				(k=2)
Calibra UID 0	Communication S	ystem Name	A dB	dBõV		dB	mV	dev.	

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%.

^A The uncertainties of Norm X,Y,Z do not affect the E²-field uncertainty inside TSL (see Page 5). Numerical linearization parameter: uncertainty not required. 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

March 25, 2020

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

Sensor Arrangement	Triangular
Connector Angle (°)	-17.6
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

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March 25, 2020

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

Calibration	Parameter D	etermined 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	9.94	9.94	9.94	0.49	0.80	± 12.0 %
835	41.5	0.90	9.73	9.73	9.73	0.35	0.98	± 12.0 %
900	41.5	0.97	9.53	9.53	9.53	0.33	1.00	± 12.0 %
1750	40.1	1.37	8.34	8.34	8.34	0.32	0.86	± 12.0 %
1900	40.0	1.40	8.07	8.07	8.07	0.34	0.86	± 12.0 %
2000	40.0	1.40	7.98	7.98	7.98	0.36	0.86	± 12.0 %
2300	39.5	1.67	7.76	7.76	7.76	0.31	0.90	± 12.0 %
2450	39.2	1.80	7.51	7.51	7.51	0.32	0.90	± 12.0 %
2600	39.0	1.96	7.23	7.23	7.23	0.39	0.90	± 12.0 %
3300	38.2	2.71	6.80	6.80	6.80	0.30	1.35	± 13.1 %
3500	37.9	2.91	6.73	6.73	6.73	0.35	1.35	± 13.1 %
3700	37.7	3.12	6.67	6.67	6.67	0.35	1.35	± 13.1 %
3900	37.5	3.32	6.50	6.50	6.50	0.40	1,60	± 13,1 %
4100	37.2	3.53	6.30	6.30	6.30	0.40	1.60	± 13.1 %
4200	37.1	3.63	6.10	6.10	6.10	0.40	1.60	± 13.1 %
4400	36.9	3.84	6.05	6.05	6.05	0.40	1.60	± 13.1 9
4600	36.7	4.04	6.02	6.02	6.02	0.40	1.60	± 13.1 9
4800	36.4	4.25	5.97	5.97	5.97	0.40	1.80	± 13.1 %
4950	36.3	4.40	5.75	5.75	5.75	0.40	1.80	± 13.1 9
5200	36.0	4.66	5.33	5.33	5.33	0.40	1.80	± 13.1 9
5300	35.9	4.76	5.23	5.23	5.23	0.40	1.80	± 13.1 9
5600	35.5	5.07	4.64	4.64	4.64	0.40	1.80	± 13.1 9
5800	35.3	5.27	4.85	4.85	4.85	0.40	1.80	± 13.1 9

^C Prequency 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, 254, 05, 304 and 70 MHz for ConvF assessments at 30, 64, 128, 159 and 220 MHz respectively. Validity of ConvF assessed at 31 and 30, 64, 128, 159 and 220 MHz respectively. Validity of ConvF assessed at 31 Afrequencies below 30 GHz is enabled 36 Hz; the validity of convF assessment as a 10 - 10 MHz for ConvF assessment as a convert of the second s

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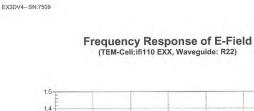
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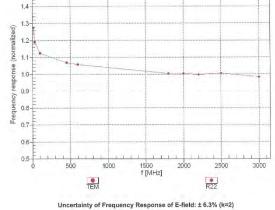
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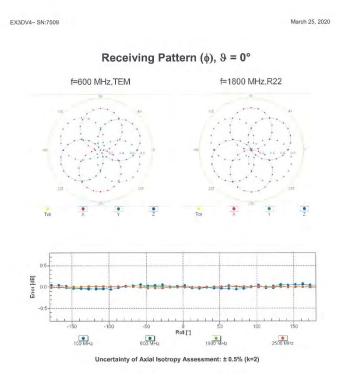
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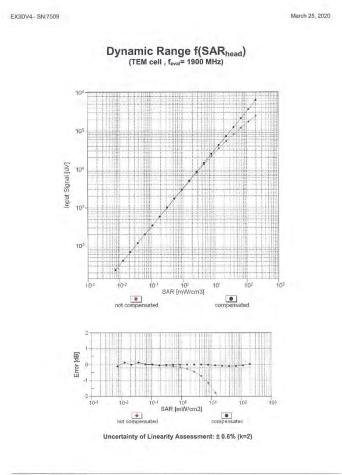
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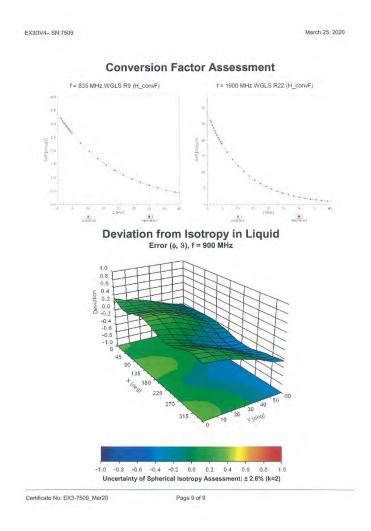
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