

Rev: 01

Page: 1 of 12

Appendix B - DAE & Probe Calibration Certificate



Certificate No: Z21-60102 Auden Client .

CALIBRATION CERTIFICATE Object DAE4 - SN: 1305 Calibration Procedure(s) FF-711-002-01 Calibration Procedure for the Data Acquisition Electronics (DAEx) Calibration date: April 09, 2021 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) Cal Date(Calibrated by, Certificate No.) Scheduled Calibration Primary Standards ID# 16-Jun-20 (CTTL, No.J20X04342) Jun-21 Process Calibrator 753 1971018 Name Function Calibrated by: SAR Test Engineer

Issued: April 11, 2021 This calibration certificate shall not be reproduced except in full without written approval of the laboratory

SAR Test Engineer

SAR Project Leader

Certificate No: Z21-60102

Reviewed by:

Approved by:

Page 1 of 3

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Yu Zongying

Qi Dianyuan

Lin Hao

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Rev: 01

Page: 2 of 12



Add; No.52 HuaYuanBei Rond, Haidian District, Beijing, 100191, China Tel: +86-10-62304633-2512 Fax: +86-10-62304633-2504 Http://www.chinattl.en

Glossary:

data acquisition electronics DAE

information used in DASY system to align probe sensor X Connector angle

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 report provide only calibration results for DAE, it does not contain other performance test results.

Certificate No: Z21-60102 Page 2 of 3

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Rev: 01

Page: 3 of 12



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DC Voltage Measurement

A/D - Converter Resolution nominal

6.1µV , full range = -100...+300 mV High Range: 1LSB = -1.....+3mV 61nV full range = Low Range: 1LSB = DASY measurement parameters: Auto Zero Time: 3 sec; Measuring time: 3 sec

Calibration Factors	X	Y	Z
High Range	403.824 ± 0.15% (k=2)	403.986 ± 0.15% (k=2)	404.308 ± 0.15% (k=2)
Low Range	3.98168 ± 0.7% (k=2)	3.99107 ± 0.7% (k=2)	3.99628 ± 0.7% (k=2)

Connector Angle

Connector Angle to be used in DASY system	97.5° ± 1 °

Certificate No: Z21-60102

Page 3 of 3

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Rev: 01

Page: 4 of 12

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





S Schweizerischer Kalibrierdienst
C 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

Client

SGS (Auden)

Certificate No: EX3-3938 Jan22

CALIBRATION CERTIFICATE

Object

EX3DV4 - SN:3938

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:

January 25, 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:	Joanna Lleshaj	Laboratory Technician	Milledaj
Approved by:	Sven Kühn	Deputy Manager	5.65
		without written approval of the laboratory.	Issued: January 28, 2022

Certificate No: EX3-3938_Jan22 Page 1 of 9

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SGS Taiwan Ltd.



Rev: 01

Page: 5 of 12

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

Accreditation No.: SCS 0108

Accredited by the Swiss Accreditation Service (SAS)

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Glossary:

TSL tissue simulating liquid NORMx,y,z sensitivity in free space ConvE 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 of φ rotation around probe axis

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

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:

- 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"

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(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 ≤ 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).

Certificate No: EX3-3938_Jan22

Page 2 of 9

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Rev: 01

Page: 6 of 12

EX3DV4 - SN:3938

January 25, 2022

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938

Basic Calibration Parameters

	Sensor X	Sensor Y	Sensor Z	Unc (k=2)
Norm (µV/(V/m) ²) ^A	0.51	0.57	0.33	± 10.1 %
DCP (mV)B	103.7	101.2	104.2	

Calibration Results for Modulation Response

UID	Communication System Name		A dB	B dB√μV	С	D dB	VR mV	Max dev.	Unc ^E (k=2)
0	CW X C	0.0	0.0	1.0	0.00	132.8	±3.3 %	±4.7%	
		Y	0.0	0.0	1.0		129.3		
		Z	0.0	0.0	1.0		144.0		

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: EX3-3938 Jan22

Page 3 of 9

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

B 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



Rev: 01

Page: 7 of 12

EX3DV4- SN:3938 January 25, 2022

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938

Other Probe Parameters

Sensor Arrangement	Triangular
Connector Angle (°)	150
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.

Certificate No: EX3-3938_Jan22

Page 4 of 9

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Rev: 01

Page: 8 of 12

EX3DV4-SN:3938 January 25, 2022

DASY/EASY - Parameters of Probe: EX3DV4 - SN:3938

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	9.60	9.60	9.60	0.60	0.85	± 12.0 %
835	41.5	0.90	9.29	9.29	9.29	0.63	0.80	± 12.0 %
900	41.5	0.97	9.17	9.17	9.17	0.54	0.80	± 12.0 %
1450	40.5	1.20	8.67	8.67	8.67	0.46	0.80	± 12.0 %
1750	40.1	1.37	8.33	8.33	8.33	0.39	0.80	± 12.0 %
1900	40.0	1.40	7.92	7.92	7.92	0.40	0.80	± 12.0 %
2000	40.0	1.40	7.77	7.77	7.77	0.36	0.80	± 12.0 %
2300	39.5	1.67	7.73	7.73	7.73	0.33	0.88	± 12.0 %
2450	39.2	1.80	7.39	7.39	7.39	0.42	0.80	± 12.0 %
2600	39.0	1.96	7.15	7.15	7.15	0.43	0.80	± 12.0 %
3300	38.2	2.71	7.00	7.00	7.00	0.35	1.30	± 13.1 %
3500	37.9	2.91	6.85	6.85	6.85	0.35	1.30	± 13.1 %
3700	37.7	3.12	6.70	6.70	6.70	0.35	1.30	± 13.1 %
3900	37.5	3.32	6.55	6.55	6.55	0,40	1.60	± 13.1 %
4100	37.2	3.53	6.40	6.40	6.40	0.40	1.60	± 13.1 %
4200	37.1	3.63	6.35	6.35	6.35	0.35	1.60	± 13.1 %
4400	36.9	3.84	6.22	6.22	6.22	0.35	1.60	± 13.1 %
4600	36.7	4.04	6.16	6.16	6.16	0.40	1,60	± 13.1 %
4800	36.4	4.25	6.10	6.10	6.10	0.40	1,80	± 13.1 %
4950	36.3	4.40	5.90	5.90	5.90	0.40	1.80	± 13.1 %
5250	35.9	4.71	5.05	5.05	5.05	0.40	1.80	± 13.1 %
5600	35.5	5.07	4.60	4.60	4.60	0.40	1.80	± 13.1 %
5750	35.4	5.22	4.65	4.65	4.65	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 8 MHz is 4-Above 5 GHz frequency validity of be extended to ± 110 MHz.

*At frequencies below 3 GHz, the validity of tissue parameters (s and o) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters (s and o) is restricted to ± 5%. 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 ± 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.

Certificate No: EX3-3938_Jan22

Page 5 of 9

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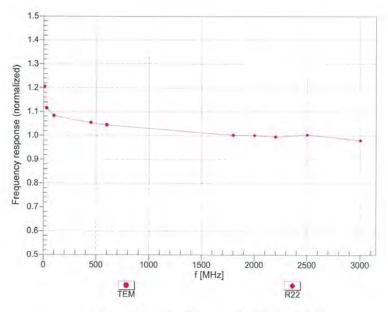
Page: 9 of 12

EX3DV4-SN:3938

January 25, 2022

Frequency Response of E-Field

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



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

Certificate No: EX3-3938 Jan22

Page 6 of 9

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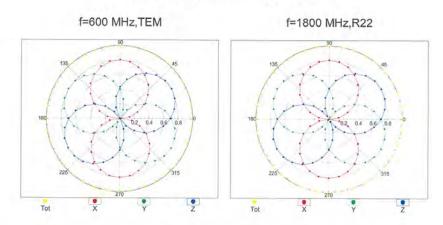


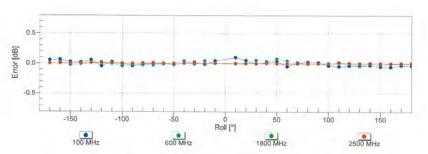
Rev: 01

Page: 10 of 12

EX3DV4- SN:3938 January 25, 2022

Receiving Pattern (ϕ), $9 = 0^{\circ}$





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

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Page 7 of 9

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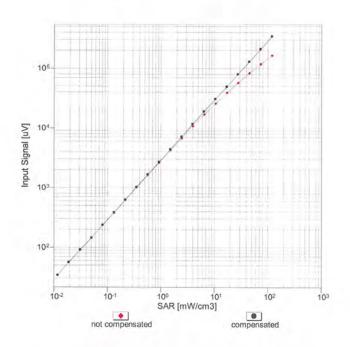


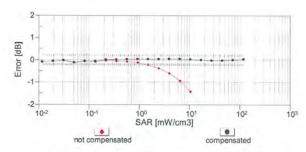
Rev: 01

Page: 11 of 12

EX3DV4- SN:3938 January 25, 2022

Dynamic Range f(SAR_{head}) (TEM cell , feval= 1900 MHz)





Uncertainty of Linearity Assessment: ± 0.6% (k=2)

Certificate No: EX3-3938_Jan22

Page 8 of 9

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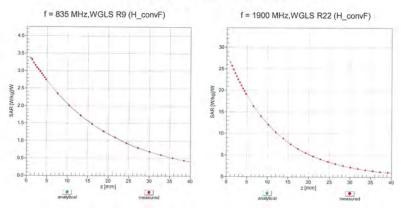
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Page: 12 of 12

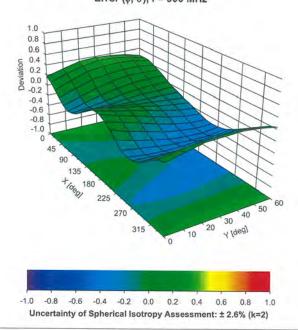
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January 25, 2022

Conversion Factor Assessment



Deviation from Isotropy in Liquid Error (∅, ૭), f = 900 MHz



Certificate No: EX3-3938_Jan22

Page 9 of 9

- End of report -

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